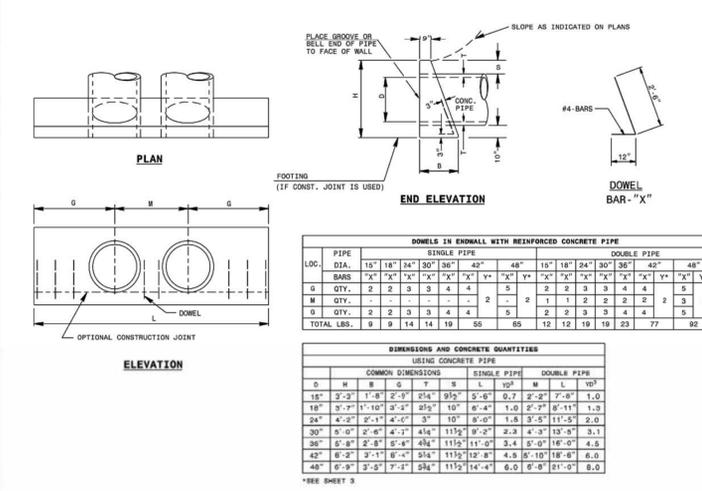


FTDP-G STANDARD HEIGHT CONFIGURATION						
DESIGNATION (OPTIONS: -P)	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	WEIR LENGTH/ MAX CURB OPENING	*MAX BYPASS FLOW (CFS)	GRATE INLET/ OUTLET ACCESS SIZE
FTPD0404-G	N/A CA	4 x 4	4 x 6	1'-8"	1.4	12"SQ12"
FTPD0405-G	CA ONLY	4 x 4.5	4 x 6.5	1'-8"	1.4	12"SQ12"
FTPD0406-G	N/A MID-ATL	4 x 6	4 x 8	1'-8"	1.4	12"SQ12"
FTPD04055-G	MID-ATL ONLY	4.5 x 5.83	4.5 x 7.83	1'-8"	1.4	12"SQ12"
FTPD0604-G	ALL	6 x 4	6 x 6	1'-8"	1.4	24"SQ12"
FTPD0606-G	ALL	6 x 6	6 x 8	1'-8"	1.4	24"SQ12"
FTPD0608-G	ALL	6 x 8	6 x 10	1'-8"	1.4	24"SQ12"
FTPD0610-G	ALL	6 x 10	6 x 12	1'-8"	1.4	24"SQ12"
FTPD0710-G	ALL	7 x 10	7 x 13	2'-6"	2.1	24"SQ24"
FTPD08105-G	ALL	8 x 10.5	8 x 14	3'-0"	2.5	24"SQ24"
FTPD08125-G	ALL	8 x 12.5	8 x 16	3'-0"	2.5	24"SQ24"

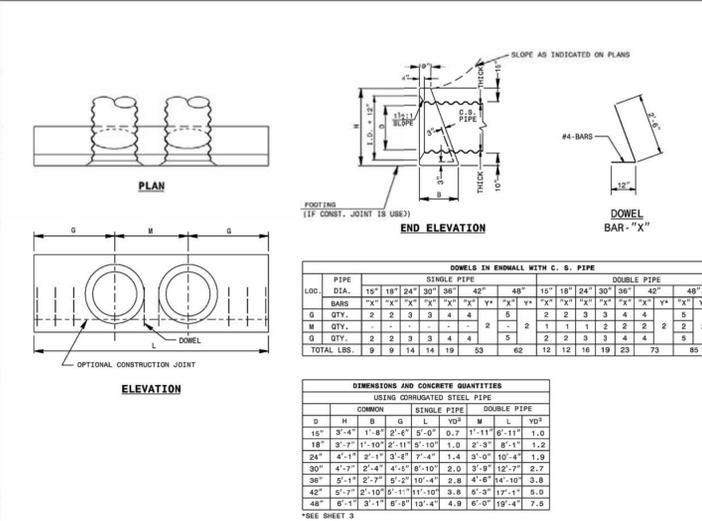
FTDP-GD DEEP OPTION CONFIGURATION						
DESIGNATION (OPTIONS: -P)	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	WEIR LENGTH/ MAX CURB OPENING	*MAX BYPASS FLOW (CFS)	GRATE INLET/ OUTLET ACCESS SIZE
FTPD0404-GD	N/A CA	4 x 4	4 x 6	1'-8"	4.6	12"SQ12"
FTPD0405-GD	CA ONLY	4 x 4.5	4 x 6.5	1'-8"	4.6	12"SQ12"
FTPD0606-GD	N/A MID-ATL	4 x 6	4 x 8	1'-8"	4.6	12"SQ12"
FTPD06055-GD	MID-ATL ONLY	4.5 x 5.83	4.5 x 7.83	1'-8"	4.6	12"SQ12"
FTPD0804-GD	ALL	6 x 4	6 x 6	1'-8"	4.6	24"SQ12"
FTPD0806-GD	ALL	6 x 6	6 x 8	1'-8"	4.6	24"SQ12"
FTPD0808-GD	ALL	6 x 8	6 x 10	1'-8"	4.6	24"SQ12"
FTPD0810-GD	ALL	6 x 10	6 x 12	1'-8"	4.6	24"SQ12"
FTPD0710-GD	ALL	7 x 10	7 x 13	2'-6"	6.8	24"SQ24"
FTPD08105-GD	ALL	8 x 10.5	8 x 14	3'-0"	8.2	24"SQ24"
FTPD08125-GD	ALL	8 x 12.5	8 x 16	3'-0"	8.2	24"SQ24"

CONTECH ENGINEERED SOLUTIONS LLC  
 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45390  
 800-338-1122 513-645-7000 513-645-7993 FAX

FILTERRA PEAK DIVERSION - GRATE (FTDP-G) CONFIGURATION DETAIL



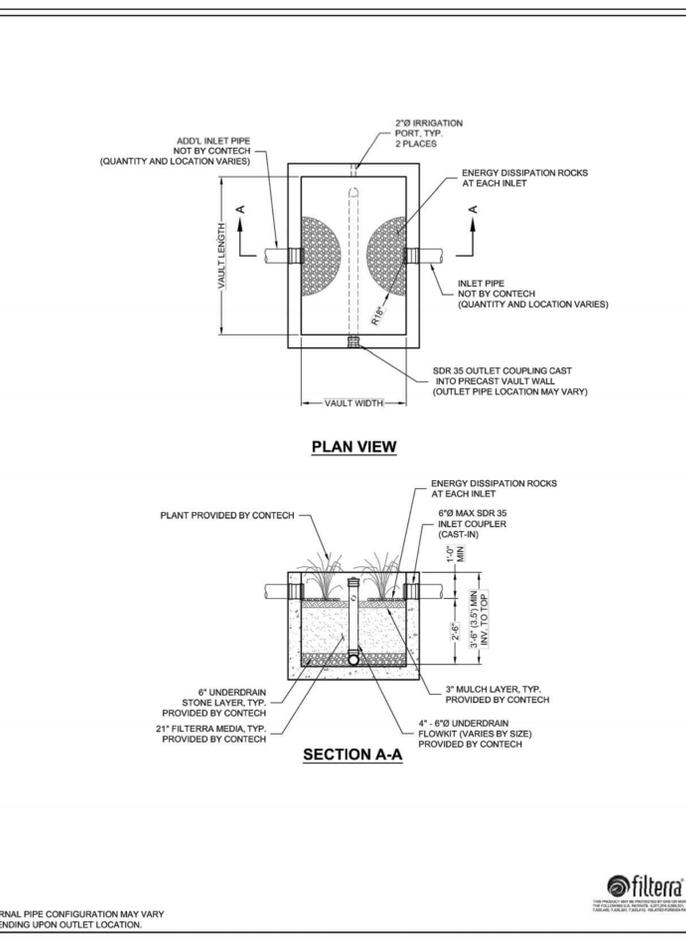
DIMENSIONS AND CONCRETE QUANTITIES USING CORRUGATED STEEL PIPE									
COMMON DIMENSIONS									
D	H	B	G	L	VP	M	L	VP	VP
18"	3'-4"	1'-8"	2'-6"	2'-11"	5'-0"	0.7	1'-11"	6'-11"	1.0
18"	3'-7"	1'-10"	2'-7"	2'-11"	5'-10"	1.0	2'-3"	8'-11"	1.2
24"	4'-1"	2'-1"	3'-8"	7'-4"	1.4	3'-0"	10'-4"	1.9	
30"	4'-7"	2'-4"	4'-5"	8'-10"	2.0	3'-0"	12'-7"	2.7	
36"	5'-1"	2'-7"	5'-2"	10'-4"	2.8	4'-0"	14'-10"	3.8	
42"	5'-7"	2'-10"	5'-11"	11'-10"	3.8	5'-3"	17'-11"	5.0	
48"	6'-1"	3'-1"	6'-8"	13'-4"	4.9	6'-0"	19'-4"	7.5	



DIMENSIONS AND CONCRETE QUANTITIES USING CONCRETE PIPE									
COMMON DIMENSIONS									
D	H	B	G	L	VP	M	L	VP	VP
18"	3'-3"	1'-8"	2'-6"	2'-11"	5'-0"	0.7	2'-3"	7'-8"	1.0
18"	3'-7"	1'-10"	2'-7"	2'-11"	5'-0"	1.0	2'-7"	8'-11"	1.3
24"	4'-2"	2'-1"	3'-4"	7'-4"	1.5	3'-5"	11'-5"	2.0	
30"	5'-0"	2'-6"	4'-1"	8'-10"	2.3	4'-3"	13'-9"	3.1	
36"	5'-8"	2'-8"	4'-8"	10'-4"	3.4	5'-0"	16'-0"	4.5	
42"	6'-2"	3'-1"	5'-4"	11'-10"	4.5	5'-10"	18'-8"	6.5	
48"	6'-9"	3'-5"	7'-2"	13'-4"	6.0	6'-8"	21'-0"	9.0	

GENERAL NOTES:  
 CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".  
 PLACE 2 #6 "Y" BARS IN THE TOP OF ALL ENDWALL FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL LENGTH.  
 CONSTRUCT BOTTOM SLAB WITH FORMS.  
 DO NOT INTERPRET WALL THICKNESS (T) SHOWN FOR THE THICKNESS ACCEPTABLE, BUT IS USED IN COMPUTING ENDWALL QUANTITIES.  
 WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR "X" DOWELS IN THE BASE AS SHOWN ON PLANS. SPACE BARS APPROXIMATELY ON 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.  
 WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY LEAVE THE POUR ROUGH.  
 USE CLASS "B" CONCRETE.

FTBSV-P CONFIGURATION					
DESIGNATION	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (L x W)	OUTLET PIPE	MIN NO. OF INLET PIPES
FTBSV0404-P	ALL	4 x 4	4 x 4	4" SDR 35	1
FTBSV0604-P	N/A CA	6 x 4	6 x 4	4" SDR 35	1
FTBSV0606-P	ALL	6 x 6	6 x 6	4" SDR 35	1
FTBSV0604-P	CA ONLY	6.5 x 4	6.5 x 4	4" SDR 35	1
FTBSV078045-P	MID-ATL ONLY	7.83 x 4.5	7.83 x 4.5	4" SDR 35	1
FTBSV0804-P	N/A MID-ATL	8 x 4	8 x 4	4" SDR 35	1
FTBSV0806-P	ALL	8 x 6	8 x 6	4" SDR 35	1
FTBSV1006-P	ALL	10 x 6	10 x 6	6" SDR 35	2
FTBSV1206-P	ALL	12 x 6	12 x 6	6" SDR 35	2
FTBSV1307-P	ALL	13 x 7	13 x 7	6" SDR 35	2
FTBSV1408-P	CALL CONTECH	14 x 8	14 x 8	6" SDR 35	3
FTBSV1608-P	CALL CONTECH	16 x 8	16 x 8	6" SDR 35	3
FTBSV1808-P	CALL CONTECH	18 x 8	18 x 8	6" SDR 35	3
FTBSV2008-P	CALL CONTECH	20 x 8	20 x 8	6" SDR 35	4
FTBSV2208-P	CALL CONTECH	22 x 8	22 x 8	6" SDR 35	4



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 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45390  
 800-338-1122 513-645-7000 513-645-7993 FAX

FILTERRA BIOSCAPE VAULT OFFLINE WITH PIPE INLET (FTBSV-P) CONFIGURATION DETAIL

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 15" THRU 48" PIPE - 90° SKEW  
 SHEET 1 OF 3  
 838.01

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 15" THRU 48" PIPE - 90° SKEW  
 SHEET 2 OF 3  
 838.01

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 15" THRU 48" PIPE - 90° SKEW  
 SHEET 3 OF 3  
 838.01

**Pennoni**  
 Firm License F-237  
**PENNONI ASSOCIATES, INC.**  
 5430 Wede Park Boulevard, #106  
 Raleigh, NC 27607  
 T 919.929.1173 F 919.495.6548

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

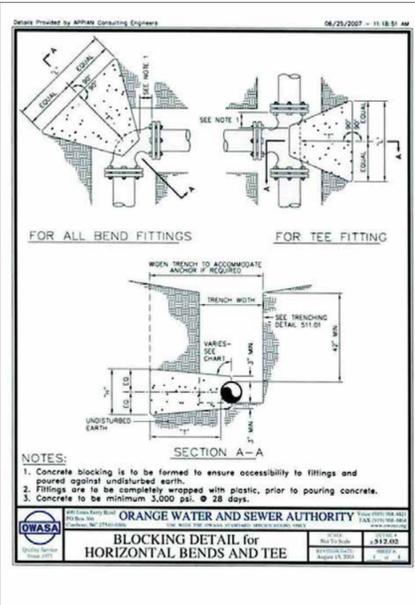
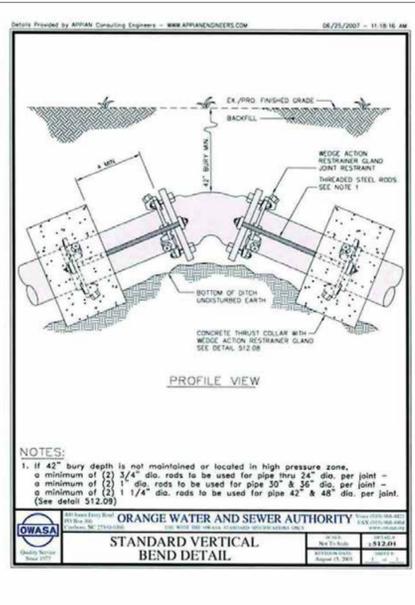
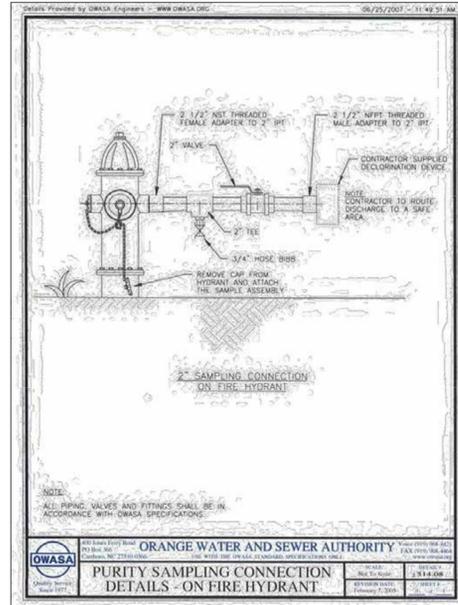
PROPOSED MULTIFAMILY DEVELOPMENT  
 (1301 FORDHAM BLVD)  
 CHAPEL HILL, NORTH CAROLINA  
 DRAINAGE DETAILS

LEON CAPITAL GROUP  
 3500 MAPLE AVENUE, SUITE 1600  
 DALLAS, TX 75219

NO.	DATE	REVISIONS	BY
1	2024-02-17	REV PER TOWN OF CHAPEL HILL COMMENTS	CS6/KNB

PROJECT: LCGRP19002  
 DATE: 2020-01-30  
 DRAWING SCALE: NTS  
 DRAWN BY: CJJ  
 APPROVED BY: PCB

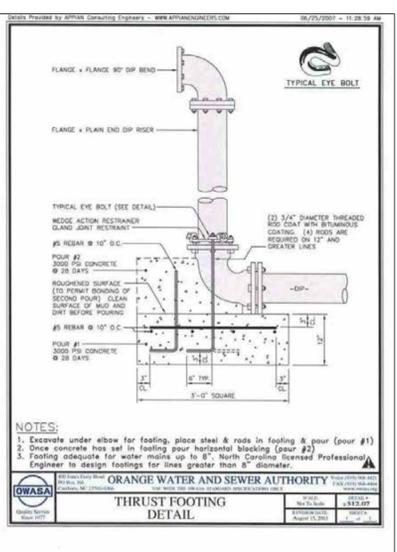
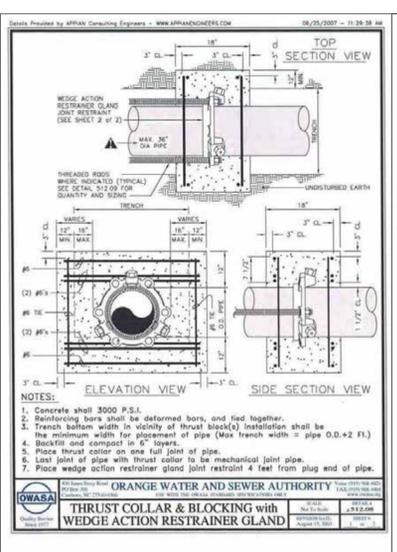
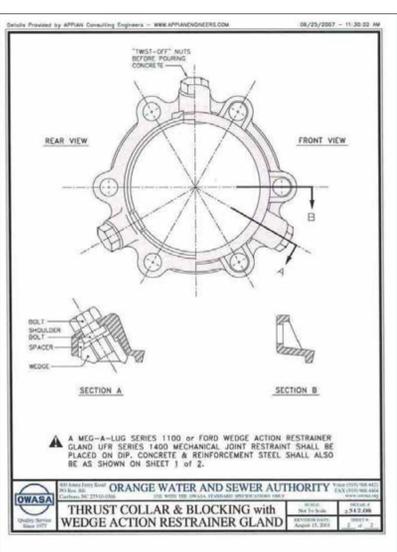
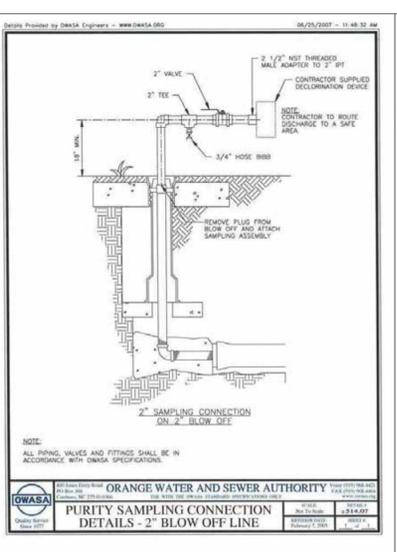
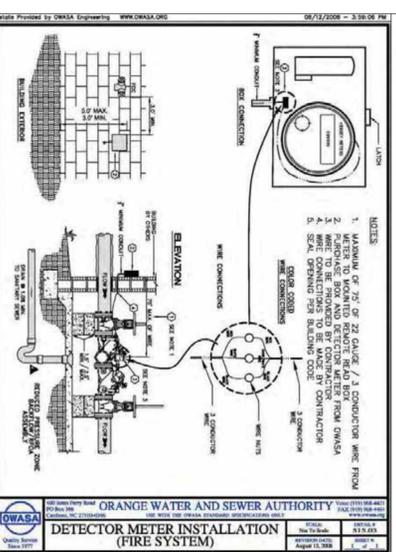
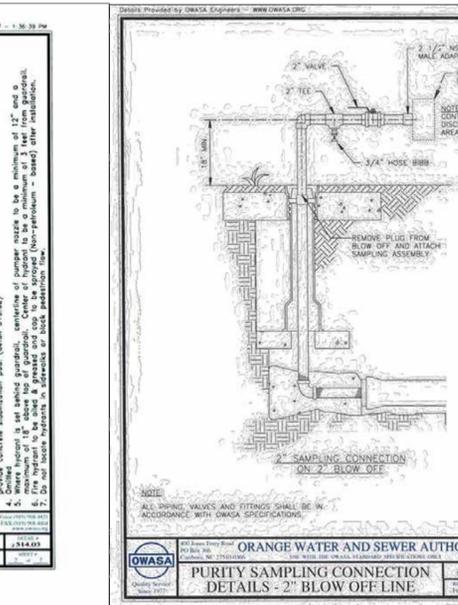
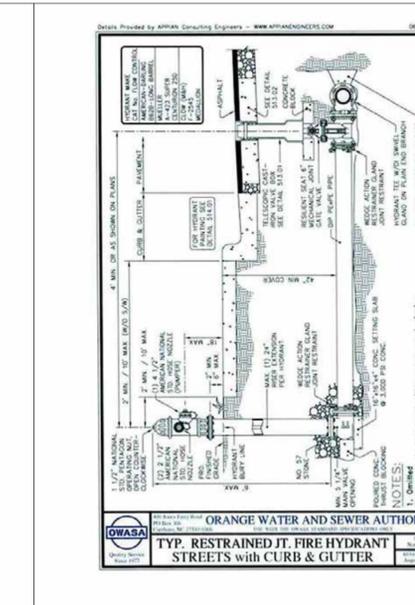
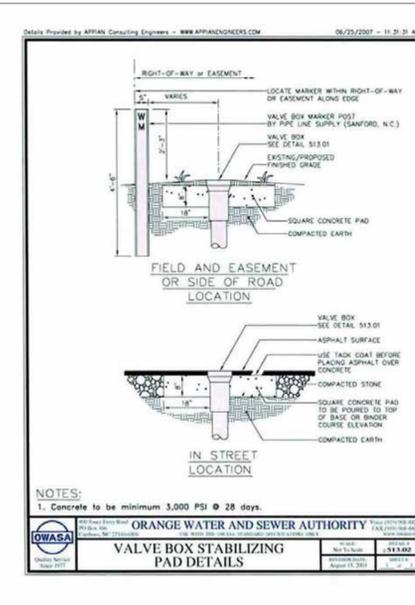
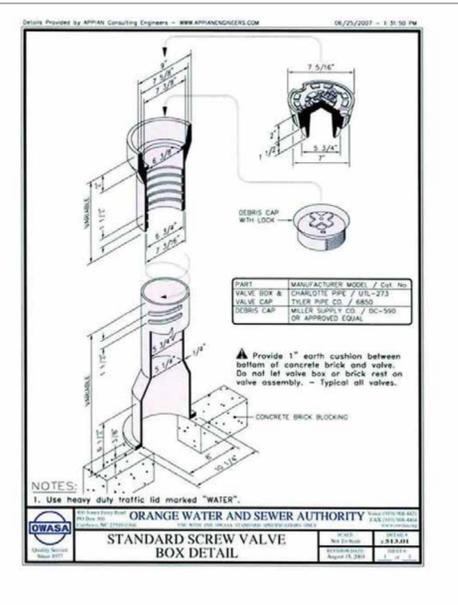
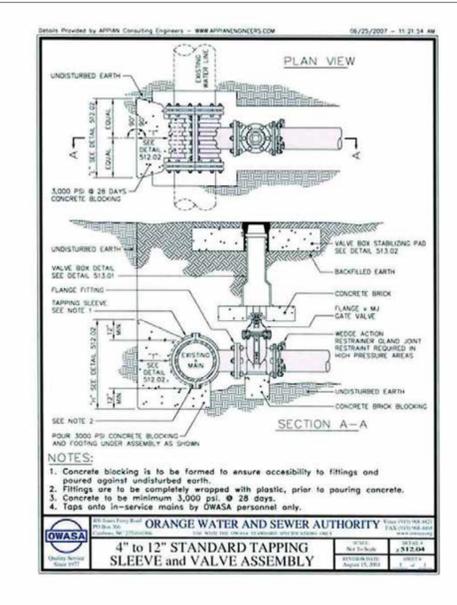
**CS6022**  
 SHEET 15 OF 28



TEST PRESSURE = 150 P.S.I.

WIRE FITTING	DIMENSIONS (F.I.)	VOLUME CONCRETE CU. YD.		
WIRE FITTING	W	H	T	
1 1/4" WRENCH	1.00	1.00	1.50	0.06
2 1/2" WRENCH	1.00	1.00	1.50	0.06
45° WRENCH	1.00	1.00	1.50	0.06
TEE / PLUG	1.00	1.00	2.00	0.07
1 1/4" WRENCH	1.50	1.50	2.50	0.09
2 1/2" WRENCH	1.50	1.50	2.50	0.09
45° WRENCH	1.50	1.50	2.50	0.09
TEE / PLUG	1.50	1.50	3.00	0.12
1 1/4" WRENCH	2.00	2.00	3.00	0.15
2 1/2" WRENCH	2.00	2.00	3.00	0.15
45° WRENCH	2.00	2.00	3.00	0.15
TEE / PLUG	2.00	2.00	3.50	0.23
1 1/4" WRENCH	2.50	2.50	3.00	0.23
2 1/2" WRENCH	2.50	2.50	3.00	0.23
45° WRENCH	2.50	2.50	3.00	0.23
TEE / PLUG	2.50	2.50	3.50	0.32
1 1/4" WRENCH	3.00	3.00	3.00	0.28
2 1/2" WRENCH	3.00	3.00	3.00	0.28
45° WRENCH	3.00	3.00	3.00	0.28
TEE / PLUG	3.00	3.00	3.50	0.39
1 1/4" WRENCH	3.50	3.50	3.00	0.31
2 1/2" WRENCH	3.50	3.50	3.00	0.31
45° WRENCH	3.50	3.50	3.00	0.31
TEE / PLUG	3.50	3.50	3.50	0.44
1 1/4" WRENCH	4.00	4.00	3.00	0.29
2 1/2" WRENCH	4.00	4.00	3.00	0.29
45° WRENCH	4.00	4.00	3.00	0.29
TEE / PLUG	4.00	4.00	3.50	0.41
1 1/4" WRENCH	4.50	4.50	3.00	0.34
2 1/2" WRENCH	4.50	4.50	3.00	0.34
45° WRENCH	4.50	4.50	3.00	0.34
TEE / PLUG	4.50	4.50	3.50	0.48

CHART NOTES:  
 1. If blocking excavation is in lightly compacted fill areas, or in areas where boulders or stumps have been removed, blocking size must be re-sized for the specific location/circumstance by a NC Licensed Professional Engineer.  
 2. Blocking sizes shown in these tables assume the following:  
 a. Blocking is constructed in residual soils as shown in detail.  
 b. Soil bearing pressure = 2000 psf  
 c. Velocity of flow = 15 fps  
 3. This detail not applicable to reducing bends.  
 4. Neither the weight of the concrete blocking nor friction between concrete blocking and soil was added into blocking sizes computation. Therefore, blocking size is conservative.



**Pennoni**  
 Firm License F-237  
**PENNONI ASSOCIATES, INC.**  
 5430 Wede Park Boulevard, #106  
 Raleigh, NC 27607  
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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

**PENNONI**  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 License No. 10000

**PROPOSED MULTIFAMILY DEVELOPMENT**  
 (1301 FORDHAM BLVD)  
 1301 FORDHAM BLVD  
 CHAPEL HILL, NORTH CAROLINA  
**WATER DETAILS**  
 LEON CAPITAL GROUP  
 3500 MAPLE AVENUE, SUITE 1600  
 DALLAS, TX 75219

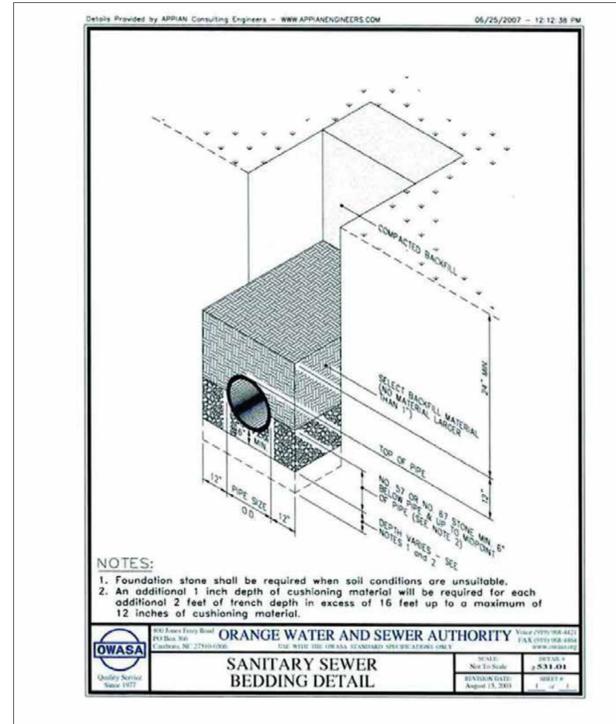
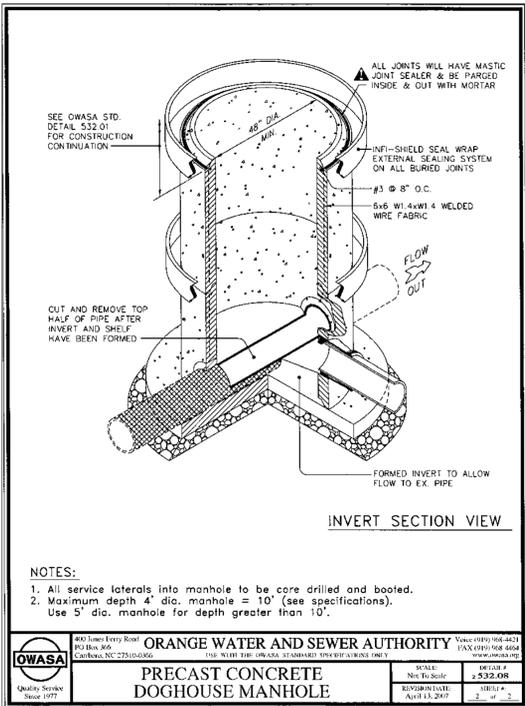
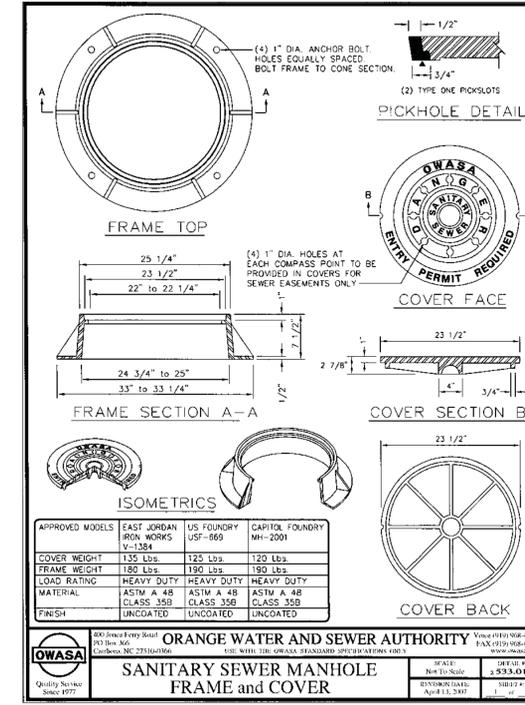
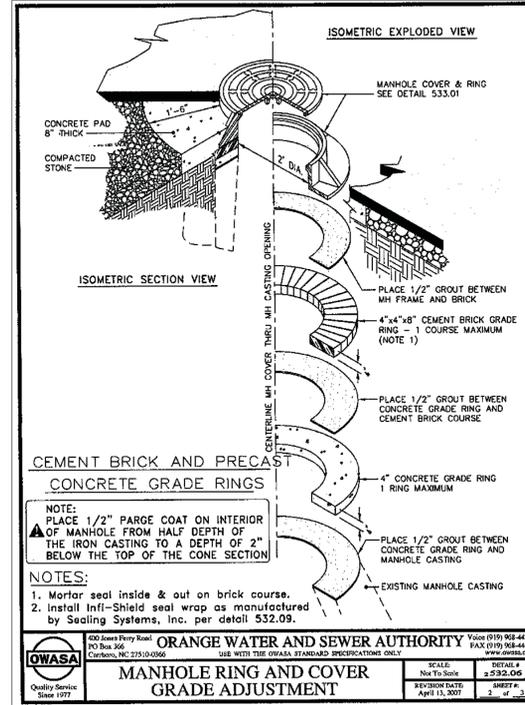
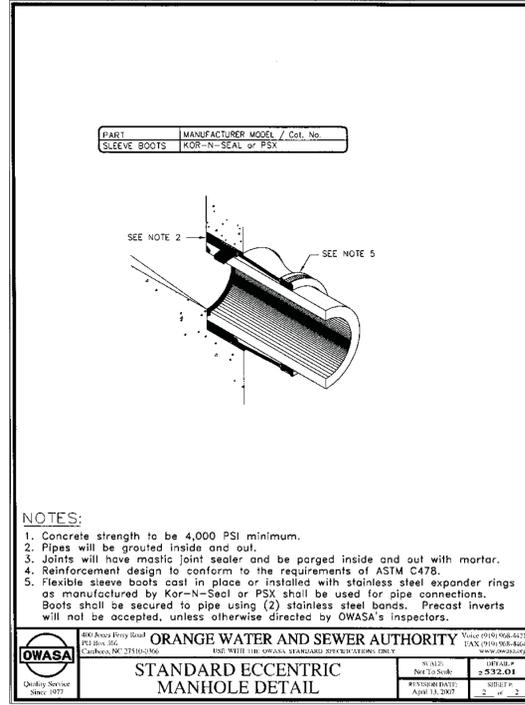
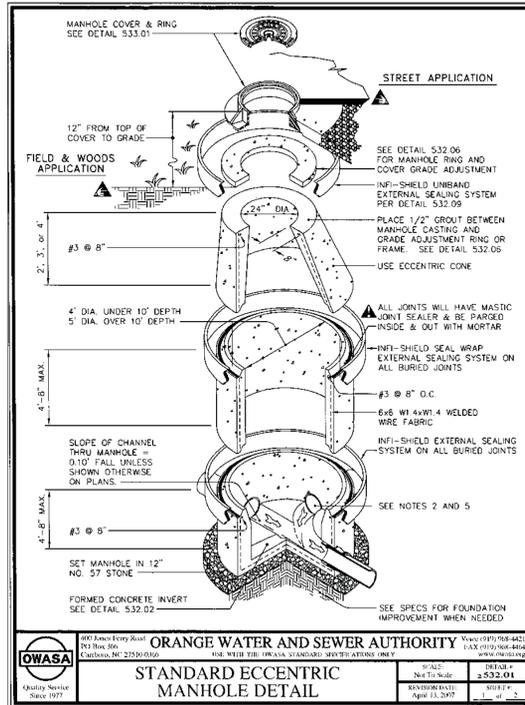
NO.	DATE	REVISIONS	BY
1	2024-02-17	REV PER TOWN OF CHAPEL HILL COMMENTS	CS6/KNB

PROJECT: LCGRP19002  
 DATE: 2020-01-30  
 DRAWING SCALE: NTS  
 DRAWN BY: CJJ  
 APPROVED BY: PCB

**CS6041**  
 SHEET 16 OF 28

PROJECT STATUS: PROJECT FILE: F:\PROJECTS\Pennoni\NCS4...  
 PLOTTED: 2/18/2025 10:41 AM BY: Kenneth Blanks  
 U:\Account\LCGRP19002 - Chapel Hill 2.18.2025\CS6041\DWG\CS6041.dwg





**Pennoni**  
 Firm License F-1287  
**PENNONI ASSOCIATES, INC.**  
 5430 Wedde Park Boulevard, #106  
 Raleigh, NC 27607  
 T 919.929.1173 F 919.493.6548

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

**PENNINGTON COUNTY**  
 NORTH CAROLINA  
 PERMIT REQUIRED

**PROPOSED MULTIFAMILY DEVELOPMENT**  
 (1301 FORDHAM BLVD)  
 CHAPEL HILL, NORTH CAROLINA

**SANITARY DETAILS**  
 LEON CAPITAL GROUP  
 3500 MAPLE AVENUE, SUITE 1600  
 DALLAS, TX 75219

NO.	DATE	REVISIONS	BY
1	02/02-17	REV PER TOWN OF CHAPEL HILL COMMENTS	CSE/KNB

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PROJECT: LCGRP19002  
 DATE: 2020-01-30  
 DRAWING SCALE: NTS  
 DRAWN BY: CJJ  
 APPROVED BY: PCB

**CS6051**  
 SHEET 18 OF 28

PROJECT STATUS: PROJECTED 2/18/2020 BY: ALM, BY: Kenneth Blanks  
 PROJECT: LCGRP19002 - CHAPEL HILL MULTIFAMILY DEVELOPMENT  
 DRAWING: SANITARY DETAILS





SEQUENCE OF CONSTRUCTION

NOTES:

1. THE TOWN OF CHAPEL HILL AND ORANGE COUNTY PLANNING & INSPECTION DEPARTMENT MUST BE NOTIFIED TO SCHEDULE A PRECONSTRUCTION MEETING PRIOR TO ANY EARTH MOVING ACTIVITIES.
2. DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED.
3. AFTER EACH RUNOFF EVENT, ALL TEMPORARY EROSION CONTROL FACILITIES SHALL BE CLEANED. ALL SILT REMOVED DURING THE CLEANING OPERATIONS SHALL BE INCORPORATED INTO THE EARTHWORK FILL OR WASTED ON THE SITE AS DIRECTED BY THE OWNER OR THEIR REPRESENTATIVE. EACH TASK MUST BE COMPLETED AND STABILIZED PRIOR TO COMMENCING THE NEXT TASK UNLESS NOTED.
4. ALL INGRESS TO AND EGRESS FROM THE SITE DURING CONSTRUCTION SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE SHOWN. A TIRE CLEANING FACILITY MUST BE INSTALLED AND MAINTAINED.
5. ANY BMPs THAT ARE DISTURBED DURING CONSTRUCTION, AND PROPOSED GRADING OR UTILITY INSTALLATIONS SHOULD BE IMMEDIATELY REPAIRED AND DESTABILIZED.
6. MINIMUM SELF-INSPECTION AND REPORTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PERMIT ISSUED FOR THE PROJECT.
7. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY OF THE FOLLOWING STAGES IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.
8. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE ORANGE COUNTY SOLID WASTE REGULATED RECYCLABLE MATERIALS ORDINANCE.

PHASE 1A CONSTRUCTION SEQUENCE:

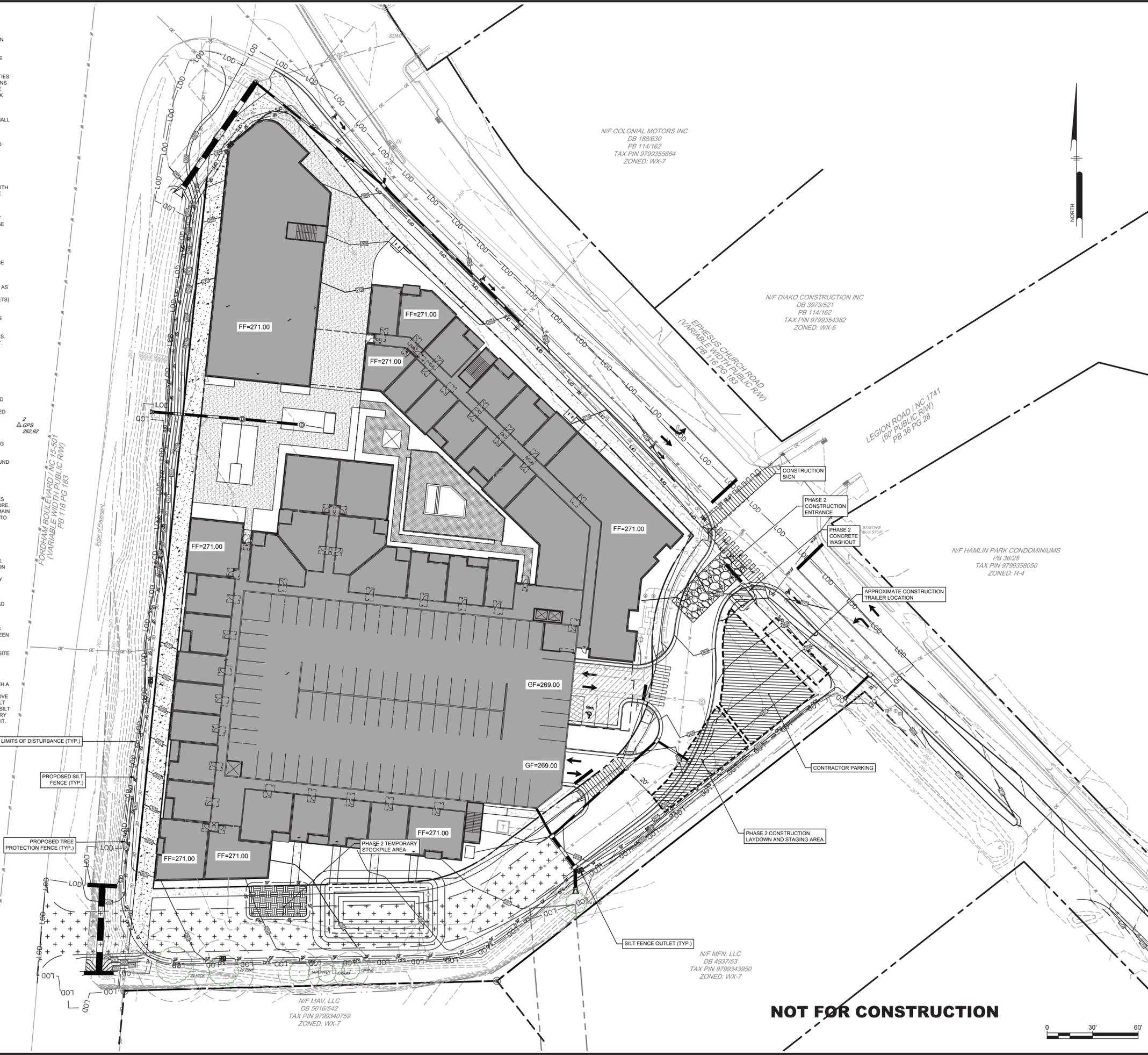
1. OBTAIN ALL NECESSARY PLAN APPROVALS AND PERMITS PRIOR TO COMMENCING WORK.
2. INSTALL PROPOSED SIGN NEAR CONSTRUCTION EXIT. INSTALL RAIN GAUGE STAKE/FLAG THE LOD(SILT/TREE) FENCING (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY, AND PROMINENTLY, MARKED TO DENOTE THE BOUNDARY).
3. INSTALL TREE PROTECTION FENCING AND CALL FOR TOWN INSPECTION(S) AS REQUIRED.
4. INSTALL CONSTRUCTION ENTRANCE AND SILT FENCING (INCLUDING OUTLETS) AS SHOWN. CLEAR ONLY THE MINIMUM NECESSARY TO INSTALL THESE PERIMETER CONTROL BMPs. TEMPORARILY STABILIZE DISTURBED AREAS.
5. HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, OWNER'S REPRESENTATION, ORANGE COUNTY EROSION CONTROL OFFICER (919-255-7571), THE TOWN OF CHAPEL HILL, THE CONTRACTOR AND REPRESENTATIVES FROM ANY OTHER APPLICABLE REGULATORY AGENCIES.
7. PROCEED TO PHASE 1B UPON RECEIPT OF AUTHORIZATION FROM COUNTY.

PHASE 1B CONSTRUCTION SEQUENCE:

8. DISCONNECT UTILITY SERVICES TO BUILDINGS AND DEMOLISH BUILDINGS UPON RECEIPT OF REQUIRED APPROVALS.
9. CLEAR SITE AREAS NECESSARY TO INSTALL REMAINING PHASE 1 BMPs INCLUDING SEDIMENT BASIN AND HYDRAULIC CONTROL STRUCTURES (DIVERSION SWALES, WATTLES, CHECK DAMS, ETC.) AS SPECIFIED ON THE PLAN. STABILIZE SIDE SLOPES AND FLOW LINE OF HYDRAULIC CONTROL STRUCTURES (DIVERSION DIKES AND SWALES) WITH SEED, FERTILIZER AND ROLLED EROSION CONTROL PRODUCTS. MINIMIZE THE AMOUNT OF AREA DISTURBED AT ANY POINT IN TIME. TEMPORARILY STABILIZE ALL DISTURBED AREAS.
10. PROCEED TO PHASE 2.

PHASE 2 CONSTRUCTION SEQUENCE:

11. DEMOLISH EXISTING BUILDING FOUNDATION IN ORDER TO INSTALL PARKING DECK FOOTINGS. ONLY REMOVE PAVEMENT WITHIN THIS AREA IN CONSTRUCT PARKING DECK FOOTINGS.
12. COMMENCE CONSTRUCTION OF PARKING DECK. MAINTAIN EXISTING GROUND COVER ON SITE FOR AS LONG AS PRACTICAL.
13. COMPLETE REMAINING BUILDING FOUNDATION DEMOLITION.
14. CLEAR REMAINING PORTIONS OF SITE AND ROUGH GRADING SITE.
15. IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY, TEMPORARILY STABILIZE THROUGHOUT CONSTRUCTION ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 7 DAYS OR MORE. COMMENCE INSTALLATION OF UTILITIES, WATER MAIN, SANITARY SEWER MAIN AND STORM SEWERS INCLUDING FILTERRA UNITS (NOTE: FILTERRA UNITS TO BE KEPT SEALED UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED).
16. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED. COMMENCE DUKE UTILITY RELOCATION WORK.
17. COMPLETE PARKING DECK CONSTRUCTION.
18. COMMENCE BUILDING CONSTRUCTION.
19. ROUGH GRADE LEGION ROAD EXTENSION AND INSTALL CURB AND GUTTER. CONSTRUCT RETAINING WALLS. COORDINATE REMOVAL OF SEDIMENTATION BASIN WITH ORANGE COUNTY EROSION CONTROL INSPECTOR.
20. IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
21. CONTRACTOR MAY COMMENCE WORK ON OFF-SITE IMPROVEMENTS UPON COORDINATION WITH THE TOWN OF CHAPEL HILL AND NCDOT.
22. PERFORM REQUIRED DEMOLITION TO CONSTRUCT EPHEsus CHURCH ROAD IMPROVEMENTS.
23. FINALIZE SITE GRADING/UTILITY INSTALLATIONS.
24. FINALIZE EPHEsus CHURCH ROAD IMPROVEMENTS.
25. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES. PER BMP DETAILS IF UPSTREAM AREAS HAVE NOT BEEN PERMANENTLY STABILIZED.
26. INSTALL SIDEWALKS AS SHOWN.
27. PREPARE LEGION ROAD AND SITE FOR PAVING. INSTALL AMENITY AREAS, SITE LIGHTING, LANDSCAPING AND SIGNS. PAVE SITE.
28. FINALIZE BUILDING AND SITE CONSTRUCTION.
29. INSTALL PAVEMENT MARKINGS.
30. WHEN PERMANENT STABILIZATION OF A UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION HAS BEEN ACHIEVED AND THE INSPECTOR HAS ACCEPTED THE STABILIZATION, REMOVE ALL REMAINING TEMPORARY EROSION CONTROL FACILITIES INCLUDING SILT FENCING, INLET PROTECTION DEVICES, CONSTRUCTION ENTRANCES AND SILT FENCE OUTLETS. AREAS DISTURBED DURING REMOVAL OF THE TEMPORARY BMP FACILITIES SHALL BE IMMEDIATELY STABILIZED. UNSAID FILTERRA UNIT.



**NOT FOR CONSTRUCTION**

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

**PROPOSED MULTIFAMILY DEVELOPMENT**  
(1301 FORDHAM BLVD)

**EROSION CONTROL PLAN (PHASE 2)**

1301 FORDHAM BLVD  
CHAPEL HILL, NORTH CAROLINA

LEON CAPITAL GROUP  
3500 MAPLE AVENUE, SUITE 1600  
DALLAS, TX 75219

NO.	DATE	REV.	PER TOWN OF CHAPEL HILL COMMENTS	CS8003B	BY
1	2024-02-17				

ALL DOCUMENTS PREPARED BY PENNON ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNON ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNON ASSOCIATES, AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNON ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	LCGRP19002
DATE	2020-01-30
DRAWING SCALE	1" = 30'
DRAWN BY	KNB
APPROVED BY	JUB

PROJECT STATUS:   
 PLOTTED: 4/20/24 4:40 PM BY: Katelyn Bland   
 PLOTSTYLE: Penwin V32.dwg   
 U:\Account\LCGRP19002 - Chapel Hill 21 EROSION CONTROL PHASE 2.dwg



NOTES:

- ALL ON-SITE TOPSOIL MUST BE PRESERVED FOR REUSE ON THE SITE DURING REVEGETATION, UNLESS IT IS INFEASIBLE OR UNREASONABLE TO DO SO. (NOTE: TOPSOIL STOCKPILING ON-SITE MAY BE INFEASIBLE IF SPACE IS NOT AVAILABLE ON-SITE FOR TOPSOIL STOCKPILING OR IF LITTLE TO NO VEGETATION IS TO REMAIN UNDER POST-CONSTRUCTION CONDITIONS. )
- ALL SOIL STOCKPILES MUST BE STABILIZED TO PREVENT EROSION AND FUGITIVE DUST. THE SURFACE OF THE STOCKPILE MUST BE PROPERLY PROTECTED TO ELIMINATE THE RISK OF EROSION. USE TEMPORARY SEEDING OR STABILIZATION DETAIL OR OTHER ALTERNATIVE MEANS OF STABILIZATION CAN BE USED, SUCH AS PROPERLY ANCHORED PLASTIC TARPS.
- PERIMETER SEDIMENT CONTROLS ALSO MUST BE INSTALLED AT STOCKPILE LOCATIONS TO PREVENT CONTACT WITH STORMWATER, INCLUDING RUN-ON.
- STOCKPILES MUST BE LOCATED OUTSIDE OF ANY VEGETATED BUFFER AREAS AND SHOULD BE LOCATED AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES.
- STOCKPILE LOCATIONS SHALL BE NOTED ON THE SITE MAPS.  
**STOCKPILES**

NOTES:

- USING WATER FROM BASINS, TRAPS, TANKS, OR OTHER WATER CONTAINMENT AREAS FOR IRRIGATION MINIMIZES DISCHARGES FROM THE SITE, AND IT MAY SATISFY OTHER NEEDS OF THE CONSTRUCTION PROJECT, SUCH AS DUST CONTROL, VEGETATIVE ESTABLISHMENT, ETC.
- CARE SHOULD BE TAKEN THAT WATER UTILIZED FROM CONTAINMENT AREAS ON-SITE FOR CONSTRUCTION PURPOSES DOES NOT DISCHARGE OFF-SITE. IF DISCHARGE IS ANTICIPATED OR OBSERVED, DEWATERING PROCEDURES STATED IN THE DEWATERING DETAIL MUST BE FOLLOWED.
- GC SHALL IMPLEMENT IRRIGATION OR DISPERSION AS PRACTICABLE TO REDUCE WATER VOLUME IN IMPOUNDMENTS AND TO FOSTER VEGETATION GROWTH.

**IRRIGATION OR DISPERSION**

NOTES:

- THE GC IS REQUIRED TO, AT A MINIMUM, INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EROSION OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE.
- ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER (SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS) AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. (PER NC GENERAL PERMIT - NCG 010000)
- ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER (SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS) AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 21 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.(PER NCGEQ SECTION 6.01 OF PRACTICE STANDARDS AND SPECIFICATIONS)
- THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
- ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE FORM OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER.
- ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS).
- IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS.
- ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS.
- ALL ROLLED EROSION CONTROL PRODUCTS SHALL HAVE CURRENT QDOR(TM) STATUS ISSUED BY THE EROSION CONTROL TECHNOLOGY COUNCIL (ECTC) PLUS ANY STATE OR AGENCY-SPECIFIC REQUIREMENTS. EVIDENCE OF QDOR(TM) APPROVAL SHALL ACCOMPANY THE PRODUCT-SHIPED TO THE JOBSITE FOR READY IDENTIFICATION BY THE CONTRACTOR OR AGENCY INSPECTOR.
- ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATS) AND VEGETATED AREAS NOT MEETING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.

**TEMPORARY SEEDING OR STABILIZATION**

NOTES:

- PERMANENT STABILIZATION SHALL BE ACCOMPLISHED IN ALL DISTURBED AREAS BY COVERING THE SOIL WITH PAVEMENT, BUILDING STRUCTURES, VEGETATION, OR OTHER FORMS OF SOIL STABILIZATION.
- THE GC IS REQUIRED TO INITIATE PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY UPON REACHING FINAL GRADE.
- ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER (SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS) AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.(PER NC GENERAL PERMIT - NCG 010000)
- ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER (SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS) AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.(PER NCGEQ SECTION 6.01 OF PRACTICE STANDARDS AND SPECIFICATIONS)
- THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
- SOILS MUST BE PREPARED BEFORE INSTALLATION OF SOD OR SEED.
- AT THE COMPLETION OF GROUND-DISTURBING ACTIVITIES, THE ENTIRE SITE MUST HAVE PERMANENT VEGETATIVE COVER MEETING VEGETATIVE DENSITY REQUIREMENTS IN THE GENERAL PERMIT, OR MULCH PER LANDSCAPE PLAN, IN ALL AREAS NOT COVERED BY HARDSCAPE (STONE, PAVEMENT, BUILDINGS, ETC.).
- SEEDED AREAS SHALL BE PROTECTED WITH STRAW MULCH, HYDRAULIC MULCH OR A ROLLED EROSION CONTROL PRODUCT. STRAW MULCH MUST BE TACKIFIED OR CRIMPED BY DISC OR OTHER MACHINERY, AND ROLLED EROSION CONTROL PRODUCTS MUST BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. ONLY ROLLED EROSION CONTROL PRODUCTS ARE PERMITTED TO BE USED IN FLOW CONVEYANCES.
- ALL AREAS TO BE SEEDDED MUST MEET TOPSOIL DEPTH, PH AND ORGANIC CONTENT REQUIREMENTS.
- FINAL SITE STABILIZATION IS ACHIEVED WHEN PERENNIAL VEGETATIVE COVER PROVIDES PERMANENT STABILIZATION WITH A UNIFORM DENSITY GREATER THAN 70 PERCENT OVER THE ENTIRE AREA TO BE STABILIZED BY VEGETATIVE COVER. THIS AREA IS EXCLUSIVE OF AREAS THAT ARE COVERED WITH ROCK (CRUSHED GRANITE, GRAVEL, ETC.) OR LANDSCAPE MULCH, PAVED OR HAVE A BUILDING OR OTHER PERMANENT STRUCTURE ON THEM.

**PERMANENT SEEDING, SOD OR MULCHING**

WATER TRUCKS OR OTHER DUST CONTROL AGENTS SHALL BE USED AS NEEDED DURING CONSTRUCTION TO MINIMIZE DUST GENERATED ON THE SITE. TACKIFIERS MAY BE USED TO HOLD SOIL IN PLACE AND PREVENT DUST. MANUFACTURER RECOMMENDATIONS FOR APPLICATION LOCATIONS AND RATES MUST BE USED FOR DUST CONTROL APPLICATIONS.

- DUST CONTROL MUST BE PROVIDED BY THE GC TO A DEGREE THAT IS IN COMPLIANCE WITH APPLICABLE FEDERAL, LOCAL AND STATE DUST CONTROL REGULATIONS.
- THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- IN ADDITION TO BMPs, GC SHALL PERFORM PER PRACTICES AND PROCEDURES WHICH MINIMIZE AND PREVENT AIRBORNE DUST OR OTHER PARTICLES FROM OCCURRING.  
**DUST CONTROL**

NOTES:

- STORM DRAIN INLET PROTECTION MEASURES SHALL PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS.
- TEMPORARY CONTROLS SHALL BE CONSTRUCTED BEFORE THE SURROUNDING AREA IS DISTURBED.
- TO PREVENT CLOGGING, STORM DRAIN CONTROL STRUCTURES MUST BE MAINTAINED FREQUENTLY.
- CHECK ALL TEMPORARY CONTROL MEASURES DAILY, AND AFTER EACH STORM EVENT.
- CONTROL MEASURES MUST BE BUILT PER DETAIL AND PLANS, AND MUST BE IN GOOD WORKING CONDITION AT ALL TIMES.  
**INLET PROTECTION**

NOTES:

- MATERIAL STORAGE AREAS SHOULD BE LOCATED, WHEN POSSIBLE, TO MINIMIZE EXPOSURE TO WEATHER. INSPECTIONS SHALL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM OR DISCHARGING FROM THE SITE. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVERS MUST BE REPAIRED OR SUPPLEMENTED. ALSO, PROTECTIVE BERMS MUST BE CONSTRUCTED, IF NEEDED, TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS. GC SHALL ADHERE TO ALL STATE AND LOCAL REGULATIONS PERTAINING TO MATERIAL STORAGE AREAS.
- CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIALS MUST BE STORED IN WATERPROOF CONTAINERS. EXCEPT DURING APPLICATION, THE CONTAINERS AND THE CONTENTS MUST BE KEPT IN TRUCKS OR INSIDE OF STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIAL MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED, AND DISPOSED OF AT AN APPROVED SOLID WASTE AND CHEMICAL DISPOSAL FACILITY.  
**MATERIAL LAYDOWN AND STORAGE AREA**

NOTES:

- THE GC SHALL IDENTIFY MASONS' AREA WITH LEGIBLE SIGNAGE ON THE SITE. TO THE EXTENT PRACTICAL, ALL MASONRY TOOLS, MATERIAL, INCLUDING SAND AND SACRED CEMENT AND/OR MORTAR MATERIALS, MIX, AND EQUIPMENT SHALL BE LOCATED WITHIN THE AREA IDENTIFIED. MATERIALS VULNERABLE TO WEATHER ELEMENTS SHALL BE STORED IN CONTAINERS AT THE END OF EACH WORK DAY; SUCH MATERIALS SHALL REMAIN STORED IN CONTAINERS WHEN NOT IN USE.
- RUNOFF CONTROL, SUCH AS DIVERSION BERMS, SILT FENCE, SILT DIKE, OR OTHER MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT THE MIGRATION OF STORMWATER POLLUTANTS FROM THE MASONS' AREA. COVERED RECEPTACLES FOR DEBRIS AND TRASH DISPOSAL SHALL ALSO BE PROVIDED.
- THE MASONS' AREA SHALL MEET OSHA AND OTHER REGULATORY REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT (PPE), FIRE EXTINGUISHERS, ETC. GC SHALL PROVIDE SCREENING OR OTHER TECHNOLOGIES FOR MASONS' AREA TO PREVENT AIRBORNE TRANSPORT OF CEMENT DUST AND OTHER PARTICULATES DUE TO HIGH SPEED WIND OR OTHER CONDITIONS. THE LOCATION OF THE MASONS' AREA SHALL BE SHOWN ON THE SITE MAPS.  
**MASONS' AREA**

NOTES:

- CONCRETE WASTE MANAGEMENT PERTAINS TO WASTE FROM CONCRETE READY-MIX TRUCKS, MASONRY OPERATIONS, AND SIMILAR WASTE.
- DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS IS ALLOWED AT THE CONSTRUCTION SITE. ONLY COMMERCIALY AVAILABLE ABOVE GROUND PORTABLE CONCRETE WASHOUT CONTAINERS ARE ALLOWED AND MUST BE PROTECTED FROM VEHICLE TRAFFIC AND CLEARLY IDENTIFIED BY LEGIBLE SIGNAGE, AND MUST BE LOCATED OUTSIDE OF VEGETATED BUFFERS AND AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL CONTAIN AND/OR ACTIVELY MANAGE BOTH, SOLID AND FLUID COMPONENTS OF THE MIX. CONCRETE WASHOUT CONTAINERS MUST BE FULLY CLEANED OR EXCHANGED WHEN THE REMAINING VOLUME IS REDUCED BY 85% TO PREVENT ANY POTENTIAL OVERFLOW IN A STORM EVENT.
- ALTERNATIVELY, WASTE CONCRETE CAN BE PLACED INTO FORMS TO MAKE RIP RAP AND/OR OTHER USEFUL CONCRETE PRODUCTS. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL BE DISPOSED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THE GC IS RESPONSIBLE FOR ASSURING THAT THESE PROCEDURES, APPLICABLE LAWS, AND ENVIRONMENTAL REGULATIONS ARE FOLLOWED. THE LOCATION OF CONCRETE WASHOUT CONTAINERS SHALL BE SHOWN ON THE SITE MAPS.  
**CEMENT AND CONCRETE WASHOUT**

NOTES:

- VERIFY WITH ENGINEER AND AUTHORITY HAVING JURISDICTION WHICH DISCHARGES FROM DEWATERING ACTIVITIES ARE ALLOWED OR ARE NOT ALLOWED NON-STORMWATER DISCHARGES UNDER THE GENERAL PERMIT AND OTHER REGULATIONS. OBTAIN ALL DEWATERING PERMITS AND AUTHORIZATIONS REQUIRED BY STATE AND LOCAL REGULATIONS.
- GC MUST WAIT TO HAVE WRITTEN COPY OF ALL REQUIRED DEWATERING PERMITS AND AUTHORIZATIONS BEFORE PERFORMING DEWATERING ACTIVITIES.
- DISCHARGES FROM DEWATERING OPERATIONS MUST BE DIRECTED THROUGH AN APPROPRIATE POLLUTION PREVENTION/TREATMENT SYSTEM OF CONTROL MEASURES, SUCH AS A SEDIMENT/FILTER BAG, SEDIMENT TRAP OR SEDIMENT BASIN, AND OTHERS, AS NEEDED, PRIOR TO BEING DISCHARGED FROM THE SITE OR INTO A WATER BODY OF THE STATE. UNDER NO CIRCUMSTANCES ARE DISCHARGES FROM DEWATERING OPERATIONS TO BE DISCHARGED DIRECTLY INTO SANITARY SEWER SYSTEMS, STREAMS, RIVERS, LAKES OR OTHER AREAS BEYOND THE PERMITTED PROJECT AREA. LIKEWISE, DISCHARGES INTO STORM SEWER SYSTEMS THAT DO NOT DRAIN TO A SUITABLE ON-SITE TREATMENT FACILITY, SUCH AS A BASIN, ARE ALSO PROHIBITED. DISCHARGES FROM DEWATERING OPERATIONS MUST ALSO BE CONDUCTED IN A MANNER SUFFICIENT TO PREVENT EROSION FROM THE DISCHARGE RUNOFF.
- IN SEDIMENT TRAP OR BASIN OR POND DEWATERING OPERATIONS, WATER MUST ONLY BE REMOVED FROM THE SURFACE OF THE CONTAINED WATER. A SKIMMER OR SIMILAR FLOATING DEVICE MUST BE USED, TO ONLY REMOVE THE WATER AT THE SURFACE.
- DO NOT DISCHARGE ON A SLOPE GREATER THAN THREE PERCENT NOR WITHIN 20 FEET OF A SURFACE WATER BODY.
- DEWATERING SHALL NOT OCCUR DURING OR IMMEDIATELY AFTER PRECIPITATION EVENTS, BUT EXCEPTIONS SHALL BE EVALUATED ON CASE BY CASE BASIS. CONTACT THE ENGINEER AND AUTHORITY HAVING JURISDICTION  
**DEWATERING**

NOTES:

- SUBSTANCES THAT HAVE THE POTENTIAL FOR POLLUTING SURFACE AND/OR GROUNDWATER MUST BE CONTROLLED BY ANY MEANS NECESSARY TO ENSURE THAT THOSE DO NOT DISCHARGE FROM THE SITE. IN THIS REGARD, POTENTIALLY POLLUTING SUBSTANCES SHALL BE STORED AND HANDLED IN A MANNER CONSISTENT WITH THE RISK OF IMPACT THOSE REPRESENT, AND ACCORDING WITH THE REGULATIONS.
- NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN CONTAINERS. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. THE CONTAINERS SHALL BE HAULED AWAY FROM THE SITE AND EMPTIED WHEN THOSE BECOME 85% FULL, OR AS NECESSARY, BY A CERTIFIED TRASH DISPOSAL SERVICE. LIDS OR COVERS FOR THE CONTAINERS SHALL BE PROVIDED FOR USE DURING RAIN EVENTS TO PREVENT WASTE CONTACT WITH STORMWATER. WASTES THAT CANNOT BE STORED IN A CONTAINER MUST BE STORED UNDER COVER OR INDOORS. THE LOCATION OF SOLID WASTE RECEPTACLES SHALL BE SHOWN ON THE SITE MAPS.  
**SOLID WASTE DISPOSAL**

NOTES:

- CONSIDERATION MUST BE GIVEN TO ANTICIPATED CLIMATE AND SEASONAL CONDITIONS WHEN PLANTING SEED.
- SEED SHALL BE FREE OF WEEDY SPECIES AND APPROPRIATE FOR SITE SOILS AND REGIONAL CLIMATE. SEED AND MULCH PER THE CONSTRUCTION DRAWINGS IMMEDIATELY AFTER TOPSOIL IS APPLIED AND FINAL GRADE IS REACHED.
- THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH BUILDING FOUNDATION OR PAVEMENT, OTHER LANDSCAPING COVER (STONE, MULCH, ETC.), OR HAVE A STAND OF GRASS WITH A MINIMUM OF 70 PERCENT DENSITY OVER THE ENTIRE VEGETATED AREA, OR GREATER IN ACCORDANCE WITH THE GENERAL PERMIT REQUIREMENTS.
- VEGETATED AREAS MUST BE WATERED, FERTILIZED, AND RESEEDED AS NEEDED TO ACHIEVE THIS REQUIREMENT.
- THE VEGETATIVE DENSITY MUST BE MAINTAINED THROUGH PROJECT COMPLETION TO BE CONSIDERED STABILIZED. AREAS PROTECTED BY EROSION CONTROL BLANKETS ARE NOT PERMANENTLY STABILIZED UNTIL THE APPLICABLE GENERAL PERMIT REQUIREMENT FOR FINAL VEGETATIVE DENSITY IS ACHIEVED.
- RIP-RAP, MULCH, GRAVEL, DECOMPOSED GRANITE OR OTHER EQUIVALENT PERMANENT STABILIZATION MEASURES MAY BE EMPLOYED IN LIEU OF VEGETATION BASED ON SITE-SPECIFIC CONDITIONS, DESIGN AND GOVERNING AUTHORITY APPROVAL.
- ALL VEGETATED AREAS SHALL BE INSPECTED REGULARLY TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED.  
**SEEDING/VEGETATION REQUIREMENTS**

NOTES:

- CONTRACTOR SHALL PROVIDE DESIGNATED LOCATION FOR SORTING AND SEPARATING HAZARDOUS WASTES.
- HAZARDOUS WASTE STORAGE MUST BE PROTECTED FROM WEATHER ELEMENTS AND HAVE RESTRICTED ACCESS.
- HAZARDOUS WASTE STORAGE MUST COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- HAZARDOUS WASTE STORAGE MUST COMPLY WITH CONTRACT DOCUMENTS.  
**HAZARDOUS WASTE DISPOSAL**

NOTES:

- ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY OR SEPTIC SYSTEM REGULATIONS. PORTABLE TOILETS MUST BE LOCATED AT LEAST 30 FEET FROM INLETS, CHANNELS, SWALES, OR PERMITTED LIMITS OF DISTURBANCE, AND MUST BE LOCATED AT LEAST 50 FEET FROM WATERS OF THE STATE, OR WATERS OF THE U.S.. PORTABLE TOILETS MUST BE SECURELY ANCHORED AND/OR TIED DOWN. SECONDARY CONTAINMENT SHALL BE PROVIDED AND FULL CAPACITY SHALL BE RESTORED IMMEDIATELY UPON DISCOVERY OF ITS DIMINISHMENT. THE LOCATION OF SANITARY FACILITIES SHALL BE SHOWN ON THE SITE MAPS.  
**SANITARY FACILITIES**

NOTES:

- CONSIDERATION MUST BE GIVEN TO ANTICIPATED CLIMATE AND SEASONAL CONDITIONS WHEN PLANTING SEED.
- SEED SHALL BE FREE OF WEEDY SPECIES AND APPROPRIATE FOR SITE SOILS AND REGIONAL CLIMATE. SEED AND MULCH PER THE CONSTRUCTION DRAWINGS IMMEDIATELY AFTER TOPSOIL IS APPLIED AND FINAL GRADE IS REACHED.
- THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH BUILDING FOUNDATION OR PAVEMENT, OTHER LANDSCAPING COVER (STONE, MULCH, ETC.), OR HAVE A STAND OF GRASS WITH A MINIMUM OF 70 PERCENT DENSITY OVER THE ENTIRE VEGETATED AREA, OR GREATER IN ACCORDANCE WITH THE GENERAL PERMIT REQUIREMENTS.
- VEGETATED AREAS MUST BE WATERED, FERTILIZED, AND RESEEDED AS NEEDED TO ACHIEVE THIS REQUIREMENT.
- THE VEGETATIVE DENSITY MUST BE MAINTAINED THROUGH PROJECT COMPLETION TO BE CONSIDERED STABILIZED. AREAS PROTECTED BY EROSION CONTROL BLANKETS ARE NOT PERMANENTLY STABILIZED UNTIL THE APPLICABLE GENERAL PERMIT REQUIREMENT FOR FINAL VEGETATIVE DENSITY IS ACHIEVED.
- RIP-RAP, MULCH, GRAVEL, DECOMPOSED GRANITE OR OTHER EQUIVALENT PERMANENT STABILIZATION MEASURES MAY BE EMPLOYED IN LIEU OF VEGETATION BASED ON SITE-SPECIFIC CONDITIONS, DESIGN AND GOVERNING AUTHORITY APPROVAL.
- ALL VEGETATED AREAS SHALL BE INSPECTED REGULARLY TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED.  
**SEEDING/VEGETATION REQUIREMENTS**

INSTRUCTIONS FOR TEMPORARY STABILIZATION USING VEGETATION

**INSTALLATION**

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY BE ABLE TO OFFER ASSISTANCE.
- IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS RESTRAINED, THE SEEDING WILL HAVE TO BE RESEED.
- USE THE APPLICATION RATES FOR LIMES, FERTILIZERS, SEED, MULCH, ETC. SPECIFIED IN THE PLAN, OR USE THE RATES BELOW FOR THE APPROPRIATE SEASON. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

**IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS RESTRAINED, THE SEEDING WILL HAVE TO BE RESEED.**

**ALL SEASONS:**

LIME: 90 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE).  
 FERTILIZER: 15-10-10; 23 POUNDS PER 1000 SQUARE FEET (100 POUNDS PER ACRE).  
 STRAW MULCH: 90 POUNDS PER 1000 SQUARE FEET (1.5 TO 2 TONS PER ACRE); USE ENOUGH STRAW TO COVER 75% OF THE GROUND.

**WASH - MAY**

RITE GRAIN: 3 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE).  
 OR SPRING OATS: 1 POUND PER 1000 SQUARE FEET (125 POUNDS PER ACRE).

**AUGUST - NOVEMBER**

OR SOYBEAN HYBRIDS: 1 POUND PER 1000 SQUARE FEET (40 POUNDS PER ACRE).  
 NOVEMBER 15 - NOVEMBER 15  
 OATS: BEFORE OCTOBER 1: 2.5 POUNDS PER 1000 SQUARE FEET (125 POUNDS PER ACRE).  
 OR WHEAT: AFTER OCTOBER 1: 1 POUND PER 1000 SQUARE FEET (100 POUNDS PER ACRE).

**NOVEMBER 15 - FEBRUARY**

VEGETATION IS NOT AN APPROPRIATE STABILIZATION DURING THESE SEASONS; USE ANOTHER TYPE OF TEMPORARY GROUND COVER, SUCH AS MULCHING.

**RESEED PREPARATION:** REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH SEEDING AND MAINTENANCE. THE SOFTENED COMPACTED SURFACE OF CUT AND FILL SLOPES IS NOT A GOOD SEED BED; APPLY LIME AND FERTILIZER, THEN RIP THE SOIL 4-6 INCHES TO MIX THE NUTRIENTS INTO THE SOIL AND TO LOOSEN AND ROUGHEN IT TO RECEIVE THE SEED.

**SEEDING:** APPLY SEED AT THE RECOMMENDED RATE, AND GO OVER THE SURFACE WITH A CULTIPACER WHERE POSSIBLE TO BRING THE SEED INTO CONTACT WITH THE SOIL.

**MULCHING:** THE AREA SEEDS MUST BE MULCHED TO PROTECT THE BARE SOIL UNTIL THE VEGETATION IS ESTABLISHED AND TO RETAIN MOISTURE TO PROMOTE SEED GERMINATION AND PLANT GROWTH. APPLY ENOUGH MULCH TO COVER 75% OF THE SOIL SURFACE. TO KEEP IT IN PLACE AND PREVENT WIND OR WATER FROM DISLODGING IT, THE MULCH SHOULD BE HELD IN PLACE BY TACKING IT WITH ASPHALT, CUTTING IT WITH NETTING.

**MAINTENANCE**

ANY PLACES WHERE THE VEGETATION FAILS TO ESTABLISH ITSELF OR IS DAMAGED BY RUNOFF OR CONSTRUCTION ACTIVITY MUST BE RESEED. WHERE THE VEGETATION FAILS TO RESTRAIN EROSION, OTHER EROSION CONTROL MEASURES MUST BE INSTALLED.

INSTRUCTIONS FOR PERMANENT STABILIZATION USING VEGETATION

**INSTALLATION**

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY BE ABLE TO OFFER ASSISTANCE.
- IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS RESTRAINED, THE SEEDING WILL HAVE TO BE RESEED UNTIL IT IS SUCCESSFUL.
- USE THE APPLICATION RATES FOR LIMES, FERTILIZERS, SEED, MULCH, ETC. SPECIFIED IN THE PLAN, OR USE THE RATES BELOW FOR THE APPROPRIATE SEASON. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

**IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS RESTRAINED, THE SEEDING WILL HAVE TO BE RESEED UNTIL IT IS SUCCESSFUL.**

**ALL SEASONS:**

LIME: 135 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE).  
 FERTILIZER: 10-10-10; 23 POUNDS PER 1000 SQUARE FEET (100 POUNDS PER ACRE). A SPLIT APPLICATION OF 50 POUNDS PER ACRE INITIALLY AND ANOTHER 50 POUNDS IN THE SPRING OR FALL IS PREFERABLE. ADD 500 POUNDS PER ACRE SODAS PHOSPHATE WHERE THE SUBSOIL IS EXPOSED.  
 SEED: 1.5 POUNDS PER 1000 SQUARE FEET (60 POUNDS PER ACRE).  
 MULCH: 80 POUNDS OF SMALL GRAIN STRAW PER 1000 SQUARE FEET (APPROXIMATELY 2 BALE) OR 1.5-2 TONS PER ACRE; USE ENOUGH STRAW TO COVER 75% OF THE GROUND.  
 TEMPORARY COVERS: 0.5 POUNDS OF GERMAN OR BROOKTOWN MILLET PER 1000 SQUARE FEET (20 POUNDS PER ACRE).

**RESEED PREPARATION:** REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH SEEDING AND MAINTENANCE. THE SOFTENED COMPACTED SURFACE OF CUT AND FILL SLOPES IS NOT A GOOD SEED BED; APPLY LIME AND FERTILIZER, THEN RIP THE SOIL 4 TO 6 INCHES TO MIX THE NUTRIENTS INTO THE SOIL AND TO LOOSEN AND ROUGHEN IT TO RECEIVE THE SEED.

**SEEDING:** APPLY SEED AT THE RECOMMENDED RATE, AND GO OVER THE SURFACE WITH A CULTIPACER WHERE POSSIBLE TO BRING THE SEED INTO CONTACT WITH THE SOIL.

**MULCHING:** THE AREA SEEDS MUST BE MULCHED TO PROTECT THE BARE SOIL UNTIL THE VEGETATION IS ESTABLISHED AND TO RETAIN MOISTURE TO PROMOTE SEED GERMINATION AND PLANT GROWTH. APPLY ENOUGH MULCH TO COVER 75% OF THE SOIL SURFACE. TO KEEP IT IN PLACE AND PREVENT WIND OR WATER FROM DISLODGING IT, THE MULCH SHOULD BE HELD IN PLACE BY TACKING IT WITH ASPHALT, CUTTING IT WITH A STRAIGHT-SET DISC, OR COVERING IT WITH NETTING.

**MAINTENANCE**

ANY PLACES WHERE THE VEGETATION FAILS TO ESTABLISH ITSELF OR IS DAMAGED BY RUNOFF OR CONSTRUCTION ACTIVITY MUST BE RESEED. WHERE THE VEGETATION FAILS TO RESTRAIN EROSION, OTHER EROSION CONTROL MEASURES MUST BE INSTALLED.

NPODES (Stormwater Discharge Permit for Construction Activities (NCG01) ) NCDENR/Division of Water Quality

NEW STABILIZATION TIMEFRAMES		
(Effective Aug. 3, 2011)		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

Firm License F-2377

**PENNONI ASSOCIATES, INC.**  
 5430 Wade Park Boulevard, #106  
 Raleigh, NC 27607  
 T 919.929.1173 F 919.493.6548

PROPOSED MULTIFAMILY DEVELOPMENT  
 (1301 FORDHAM BLVD)

1301 FORDHAM BLVD  
 CHAPEL HILL, NORTH CAROLINA

EROSION CONTROL DETAILS

LEON CAPITAL GROUP  
 3500 MAPLE AVENUE, SUITE 1600  
 DALLAS, TX 75219

NO.	DATE	REVISIONS	BY
1	02/02/17	REV PER TOWN OF CHAPEL HILL COMMENTS	CSB/KNB

PROJECT: LCGRP19002

DATE: 2020-01-30

DRAWING SCALE: NTS

DRAWN BY: KNB

APPROVED BY: JUB

**CS8501**

SHEET 23 OF 28

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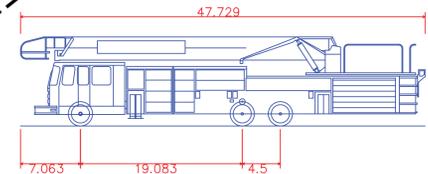
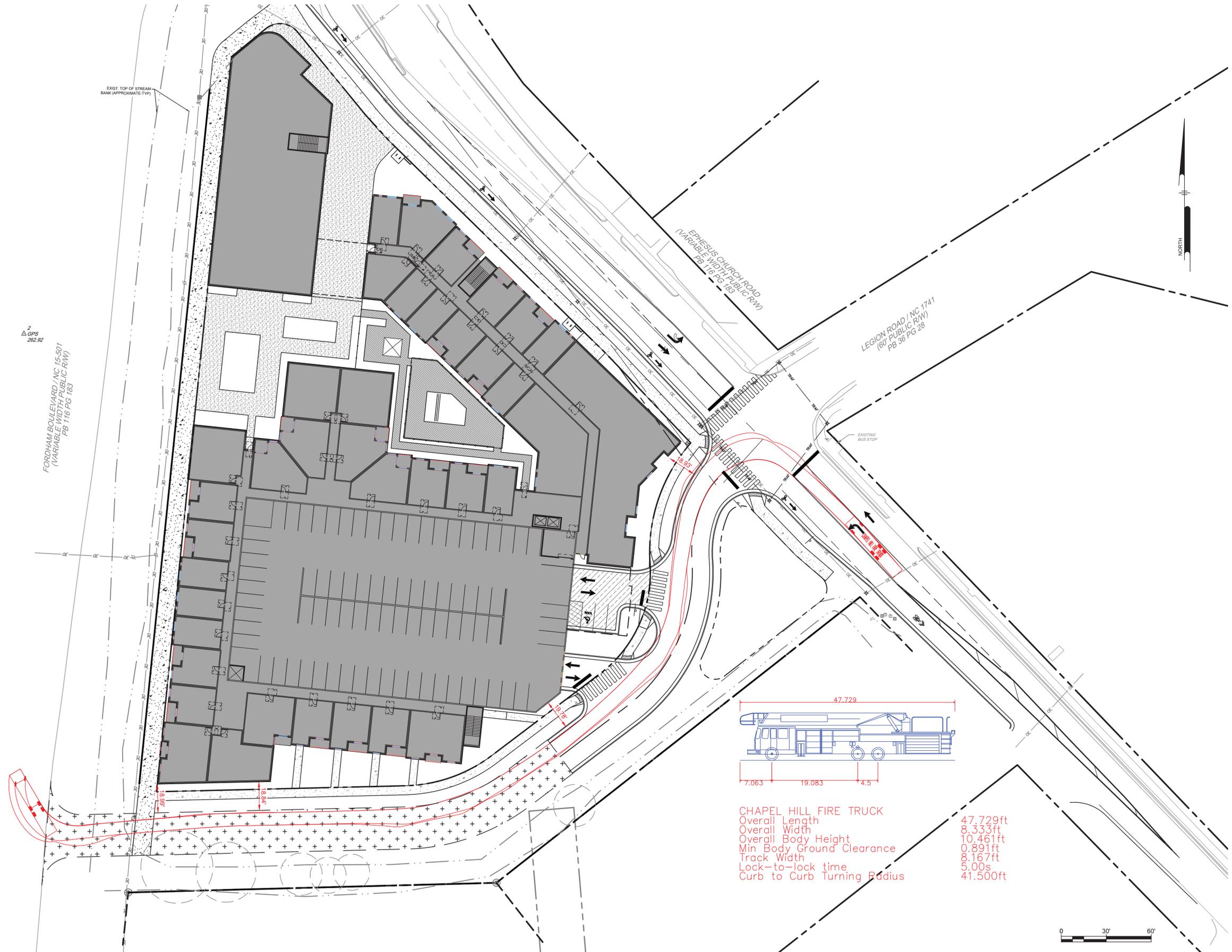
PROJECT STATUS: PROJECT FILE: Pennoni NCS-48 FOLDER: 2118200-0119-ALL BY: Kenneth Brooks







# FIRE TRUCK INGRESS/EGRESS



CHapel Hill Fire Truck  
 Overall Length 47.729ft  
 Overall Width 8.333ft  
 Overall Body Height 10.461ft  
 Min Body Ground Clearance 0.891ft  
 Track Width 8.167ft  
 Lock-to-lock time 5.00s  
 Curb to Curb Turning Radius 41.500ft

**NOT FOR CONSTRUCTION**

PLOTTED: 4/20/24 4:40 PM BY: Kaitlin Bunka PROJECT STATUS: FORTYFIVE PERCENT VCS-48  
 I:\projects\2024\1301 Fordham Blvd\CS9802\CS9802.dwg

**Pennoni**  
 Firm License F-1287  
**PENNONI ASSOCIATES, INC.**  
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**PROPOSED MULTIFAMILY DEVELOPMENT**  
 (1301 FORDHAM BLVD)  
 CHAPEL HILL, NORTH CAROLINA

**FIRE TRUCK TURNING PLAN**  
 LEON CAPITAL GROUP  
 3500 MAPLE AVENUE, SUITE 1600  
 DALLAS, TX 75219

NO.	DATE	REVISIONS	BY
1	2024-02-17	REV PER TOWN OF CHAPEL HILL COMMENTS	CSEK/NB

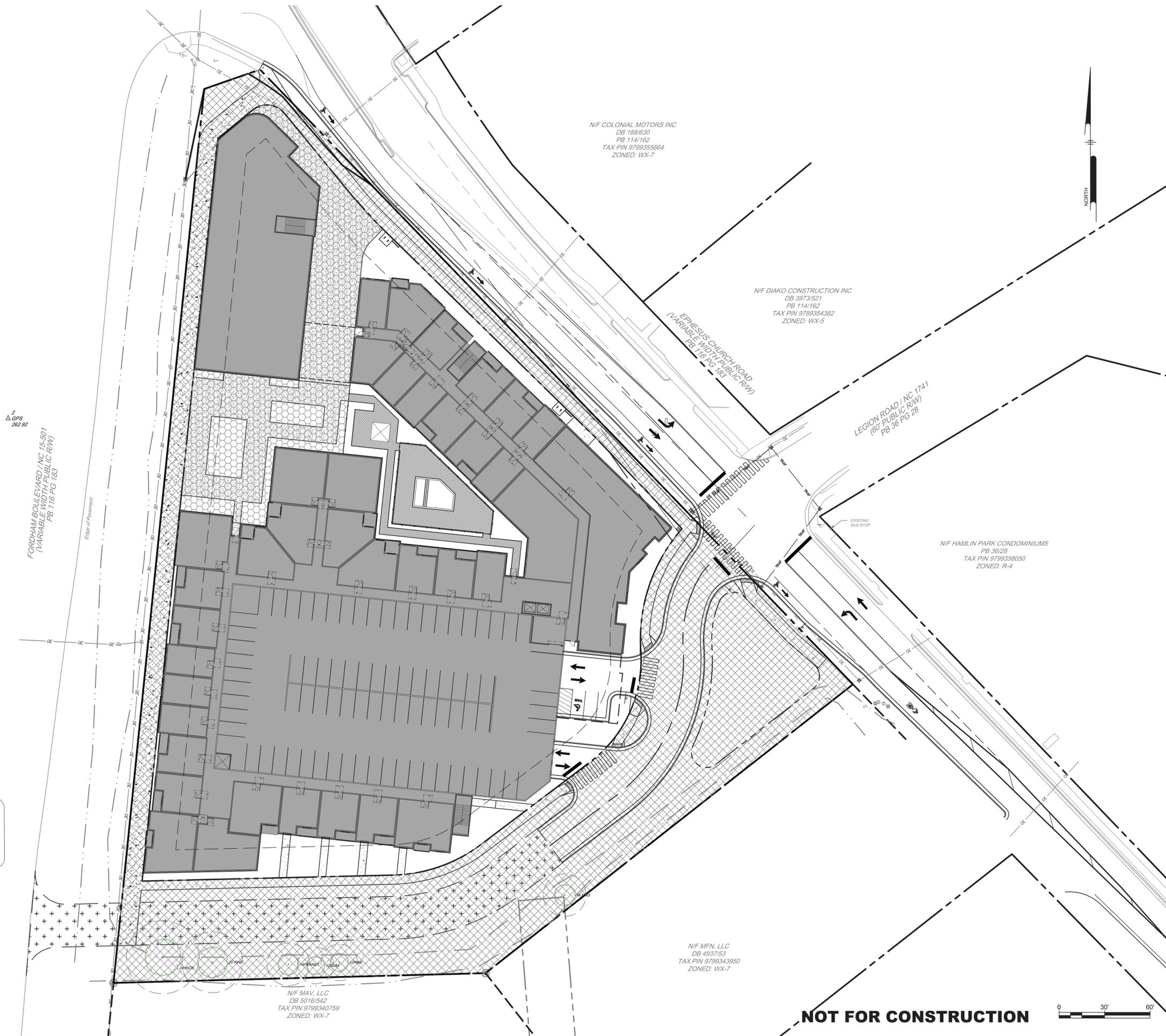
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PROJECT: LCGRP19002  
 DATE: 2020-01-30  
 DRAWING SCALE: 1" = 30'  
 DRAWN BY: JJB  
 APPROVED BY: JJB

\\server1.dell.com\share\proj\CGRP19002 - Chapel Hill - CGRP19002 - CS9803 - SITE PLAN.dwg PLOTTED: 4/20/24 4:40 PM BY: Kaitlyn Bledsoe PROJECT STATUS: —

**HATCH LEGEND**

-  DELINEATES PUBLIC ACCESS AND STORMWATER ACCESS/MAINTENANCE EASEMENT
-  DELINEATES RIGHT OF WAY DEDICATION AREA



2  
GPS  
262.92

FORDHAM BOULEVARD / NC 15-501  
(VARIABLE WIDTH PUBLIC R/W)  
PB 116 PG 183

Edge of Pavement

N/F COLONIAL MOTORS INC  
DB 188/630  
PB 114/162  
TAX PIN 9799355664  
ZONED: WX-7

N/F DIAKO CONSTRUCTION INC  
DB 3973/321  
PB 114/162  
TAX PIN 9799354382  
ZONED: WX-5

EPHESUS CHURCH ROAD  
(VARIABLE WIDTH PUBLIC R/W)  
PB 16 PG 183

LEGION ROAD / NC 1741  
(60' PUBLIC R/W)  
PB 36 PG 28

N/F HAMLIN PARK CONDOMINIUMS  
PB 36/28  
TAX PIN 9799358050  
ZONED: R-4

N/F MFN, LLC  
DB 4937/63  
TAX PIN 9799343950  
ZONED: WX-7

N/F MAV, LLC  
DB 5016/542  
TAX PIN 9799340759  
ZONED: WX-7

**NOT FOR CONSTRUCTION**



Firm License  
F-1287  
**PENNONI ASSOCIATES INC.**  
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**PROPOSED MULTIFAMILY DEVELOPMENT  
(1301 FORDHAM BLVD)**

1301 FORDHAM BLVD  
CHAPEL HILL, NORTH CAROLINA

**EASEMENT PLAN**

LEON CAPITAL GROUP  
3500 MAPLE AVENUE, SUITE 1600  
DALLAS, TX 75219

NO.	DATE	REVISIONS	BY
1	2024-02-17	REV PER TOWN OF CHAPEL HILL COMMENTS	CS9803

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PROJECT	LCGRP19002
DATE	2020-01-30
DRAWING SCALE	1" = 30'
DRAWN BY	KNB
APPROVED BY	JUB

**CS9803**  
SHEET 28 OF 28