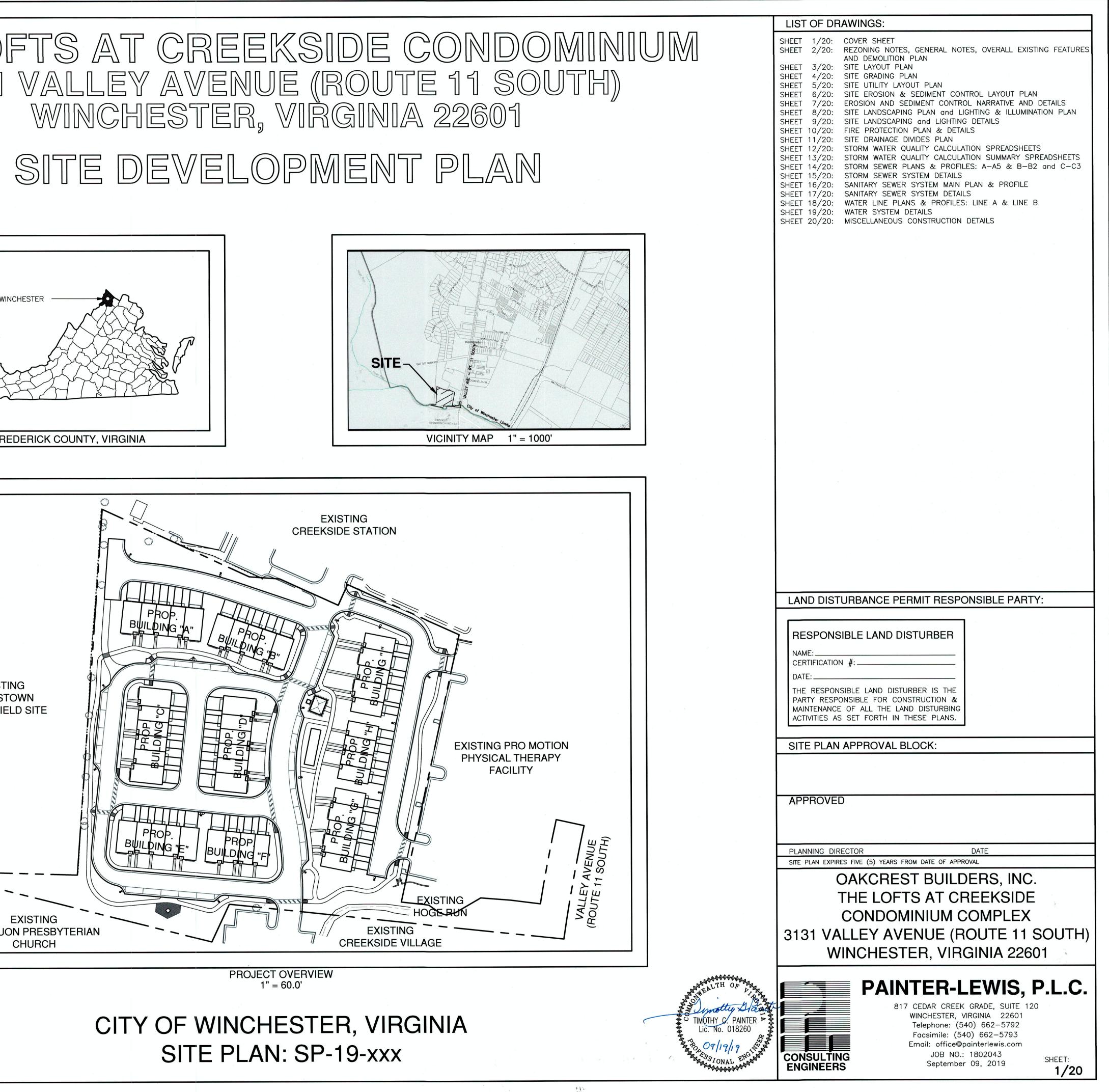
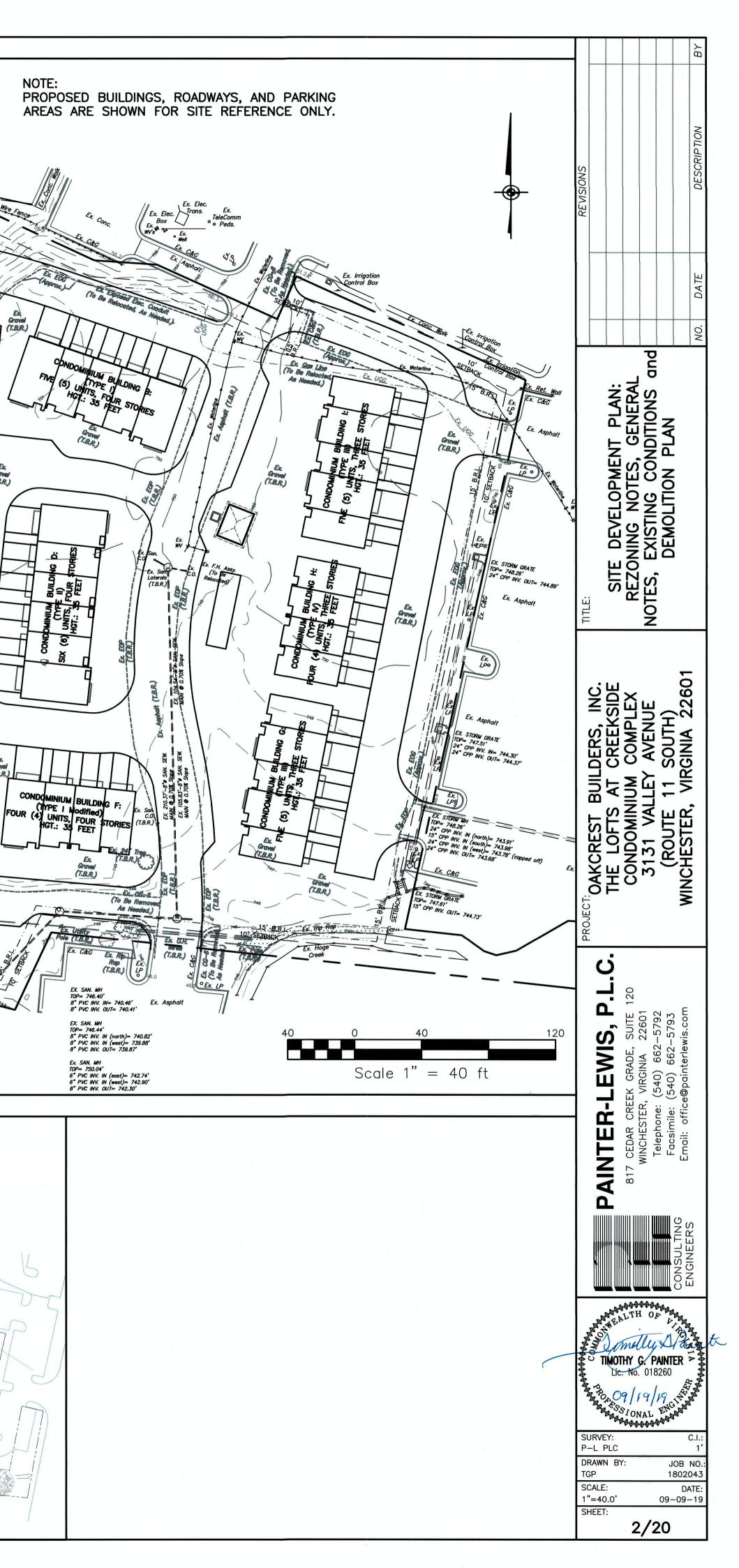
ommercial developments fronting ' inchester, Virginia. The developer	the Creekside Village and the Creekside Station Valley Avenue within the limits of the City of intends to construct 45 multi—family townhouse	THE LC
yle condominium dwelling units of Property Owner :	n this site.	313
OakCrest Builders, Inc. 126 North Kent Street	Contact: Ms. Nameeta Sahni	
Winchester, Virginia 22601	Telephone: (540) 504-0719	
Engineer: PAINTER-LEWIS, P.L.C.	Contact: Mr. Timothy G. Painter, P.E.	
817 Cedar Creek Grade, Suite 1 Winchester, Virginia 22601	20 Telephone: (540) 662–5792	
Surveyor:	Contact: Mr. David F. Spriggs	
PAINTÉR-LEWIS, P.L.C. 817 Cedar Creek Grade, Suite 1		
Winchester, Virginia 22601	Telephone: (540) 662–5792	
as taken from a series of field s ainter—Lewis, P.L.C. and compiled an for the rezoning of the parce	isting features information, shown on these plans, surveys performed by the Survey Division of together to provide a general existing conditions I. A complete and current field survey will be this project, to verify and establish the boundary velopment of this site.	
. Site Data: ax Map: 329-	-121	
arcel Área: 4.44	49 Acres & Conditional B-2	CITY C
oning (Proposed): B-2 xisting Use: Vaca	with PUD Overlay nt	
roposed Use: Resid	lential Condominium Townhouse Complex	
. Zoning Requirements: —2 Highway Commercial District: ot Size: 10,00	00 Sq. Ft. (Minimum) 4.4449 Ac. Provided	
ot Width: 10	DO Sq. Ft. (Minimum) 4.4449 Ac. Provided DO Ft. (Minimum) 141.83 Ft. Provided 35 Ft. (Minimum)	
Side:	50 Ft. (LR & MR) for Multi-family 15 Ft. (Commercial)	
Rear:	75 Ft. (LR & MR) for Multi—family 25 Ft. (Commercial)	
eight:	35 Ft. 55 Ft. (with 1' side and rear yard increases)	
UD Planned Urban District:		
(Spe	ontiguous Acres 4.4449 Ac. Provided cial Exception is hereby requested.)	
(18	Inits per Acre x 4.4449 = 80 Units)   45 Proposed rmined by Depsity with Recreational Amenities	
Battl	rmined by Density with Recreational Amenities efield viewshed with a Town Center design has provided supplemented with walking trails, fire pits	
	pavilion.	
. PROJECT SITE DEVELOPMENT DATA: OTAL PROJECT AREA:	4.4449 Ac.	
INE RESIDENTIAL CONDOMINIUM TOWNH SIX (6) FOUR-STORY BUILDINGS:	IOUSE STYLE BUILDINGS: 31 D.U. TOTAL IN THESE BUILDING TYPES	
(BLDGS.: A, B, C, D, E, F) THREE (3) THREE-STORY BUILDINGS:	14 D.U. TOTAL IN THESE BUILDING TYPES	
(BLDGS.: G, H I) TOTAL DWELLING UNITS:	45 DWELLING UNITS	
UILDING HEIGHTS:		
FOUR-STORY BUILDINGS: THREE-STORY BUILDINGS:	42'—O" MAXIMUM ROOF HEIGHT 35'—7" MEAN ROOF HEIGHT	
ARCEL COVERAGE: BUILDINGS:	33,315 Sq. Ft. (0.76 Ac.)	
ROADWAYS & AISLE AREAS: CONCRETE DRIVEWAYS:	54,481 Sq. Ft. (1.25 Ac.) 10,820 Sq. Ft. (0.25 Ac.)	
PAVED WALKWAYS & TRAILS: GREEN SPACE	14,165 Sq. Ft. (0.33 Ac.) 80,840 Sq. Ft. (1.85 Ac.)	EX KEF
GREEN SPACE AREA (PERVIOUS): w/ TRAILS:	41.8% of the SITE 49.1% of the SITE	BATTL
OMMON OPEN SPACE: TOTAL SITE GREEN SPACE: NON-COMFORMING AREAS: TOTAL COMMON OPEN SPACE:	95,005 Sq. Ft. 26,936 Sq. Ft. 68,069 Sq. Ft. (1.56 Ac.)	
COMMON OPEN SPACE:	35.2 % of the SITE	
ROPERTY RESTRICTIONS:	/ENANTS WILL APPLY TO AND BECOME PART OF THIS	
	DOCUMENTS, AS SPECIFIED IN ACCORDANCE WITH THE	
. SITE DEVELOPMENT – PARKING CAL		
ARKING REQUIRED: ONE & TWO BEDROOM DWELLING UNITS 1 SPACE PER DWELLING UNIT		
ONE & TWO BEDROOM DWELLING UNITS 1 SPACE PER DWELLING UNIT BUILDINGS: G, H, & I:	14 UNITS	
ONE & TWO BEDROOM DWELLING UNITS 1 SPACE PER DWELLING UNIT BUILDINGS: G, H, & I: 1x14 DWELLING UNITS =	14 UNITS 14 SPACES	
NE & TWO BEDROOM DWELLING UNITS 1 SPACE PER DWELLING UNIT SUILDINGS: G, H, & I: 1x14 DWELLING UNITS = THREE BEDROOM DWELLING UNITS: 2 SPACES PER DWELLING UNIT	14 SPACES	
NE & TWO BEDROOM DWELLING UNITS 1 SPACE PER DWELLING UNIT SUILDINGS: G, H, & I: 1x14 DWELLING UNITS = THREE BEDROOM DWELLING UNITS:		
ONE & TWO BEDROOM DWELLING UNITS 1 SPACE PER DWELLING UNIT BUILDINGS: G, H, & I: 1×14 DWELLING UNITS = THREE BEDROOM DWELLING UNITS: 2 SPACES PER DWELLING UNIT BUILDINGS: A, B, C, D, E, & F: 2×31 DWELLING UNITS = TOTAL ON-SITE PARKING REQUIRED:	14 SPACES 31 UNITS 62 SPACES	OPE
<ul> <li>NE &amp; TWO BEDROOM DWELLING UNITS <ol> <li>SPACE PER DWELLING UNITS</li> <li>SPACE PER DWELLING UNITS</li> </ol> </li> <li>SUILDINGS: G, H, &amp; I: <ol> <li>1×14 DWELLING UNITS =</li> </ol> </li> <li>THREE BEDROOM DWELLING UNITS: <ol> <li>SPACES PER DWELLING UNITS:</li> <li>SPACES PER DWELLING UNITS</li> </ol> </li> <li>SUILDINGS: A, B, C, D, E, &amp; F: <ol> <li>2×31 DWELLING UNITS =</li> </ol> </li> <li>TOTAL ON-SITE PARKING REQUIRED:</li> <li>S EA. TWO-CAR GARAGE UNITS:</li> </ul>	<ul> <li>14 SPACES</li> <li>31 UNITS</li> <li>62 SPACES</li> <li>76 SPACES</li> <li>30 SPACES</li> </ul>	
ONE & TWO BEDROOM DWELLING UNITS 1 SPACE PER DWELLING UNIT BUILDINGS: G, H, & I: 1×14 DWELLING UNITS = THREE BEDROOM DWELLING UNITS: 2 SPACES PER DWELLING UNITS BUILDINGS: A, B, C, D, E, & F: 2×31 DWELLING UNITS = TOTAL ON-SITE PARKING REQUIRED: PARKING PROVIDED:	<ul> <li>14 SPACES</li> <li>31 UNITS</li> <li>62 SPACES</li> <li>76 SPACES</li> </ul>	OPE

# SITE DEVELOPMENT PLAN **INCHESTEI** SITI



ABBREVIATIONS		GENERAL CONSTRUCTION NOTES
ASSY. B.F. BLK.	ASSEMBLY BASEMENT FLOOR BLOCK	GENERAL CONSTRUCTION NOTES: 1. All work and materials shall con Winchester, Virginia, the Virginia Dei Virginia Uniform Statewide Building
BC BP BSBD.	BOTTOM OF CURB BREAK POINT BASEBOARD	AMERICANS WITH DISABILITIES ACT, WHEN
CG-2 CG-6 CIP	VDOT CURB VDOT CURB & GUTTER CAST-IN-PLACE CONCRETE	2. EROSION AND SEDIMENT CONTROL SHA SPECIFICATION OF THE COMMONWEALTH C WHERE APPLICABLE.
CL CMF CPP CMP CMPA CO	CLASS CONCRETE MONUMENT FOUND CORRUGATED POLYETHYLENE PIPE CORRUGATED METAL PIPE CORRUGATED METAL PIPE ARCH CLEAN OUT	3. IT SHALL BE THE RESPONSIBILITY OF T AT LEAST TWO (2) WORKING DAYS PRIOR ACTIVITY.
DIA. or Ø DS EOP EOG EX. F.F. F.F.E. FDC	DIAMETER DOWNSPOUT EDGE OF PAVEMENT EDGE OF GRAVEL EXISTING FIRST FLOOR FINISHED FLOOR ELEVATION FINISHED FLOOR ELEVATION FIRE DEPARTMENT CONNECTION	4. ALL EXISTING UTILITIES HAVE BEEN SH However, there may be existing utilit located. Therefore, it shall be the f location of all existing utilities pric by way of a field survey or excavate
FG FH or F.H. F.L.S.	FACE OF GUTTER FIRE HYDRANT FIRE LANE SIGN	PLANS AND THE ACTUAL FIELD CONDITION ENGINEER OR THE CITY OF WINCHESTER,
F.LT. Ga. GM	FLOOD LIGHT GAUGE GAS METER	5. <u>All</u> proposed utilities shall be in
GV HCR	GAS VALVE or GATE VALVE HANDICAP RAMP	6. IT SHALL BE THE RESPONSIBILITY OF T FOR CONSTRUCTION PRIOR TO COMMENCE DOCUMENTS SHALL BE PRESENT ON THE
HB HDCP HDR CURB HP or H.P. HTR. INC	HOSE BIB HANDICAPPED 6" HEADER CURB HIGH POINT HEATER INCREASER	7. TOPOGRAPHIC INFORMATION WAS DERING SURVEY PERFORMED BY SURVEY DIVISION TWO FOOT (2') CONTOUR INTERVAL. CONF WITH THE PROJECT SURVEYOR.
INV IPF IPS	INVERT IRON PIPE FOUND	8. NO GEO-TECHNICAL REPORT HAS BEEN
LP or L.P. LT.	IRON PIPE SET LOW POINT LIGHT	9. ALL RADII DESIGNATIONS INDICATE TH
MLP MPD MP	METAL LIGHT POLE MULTI-PRODUCT DISPENSER METAL POST	STONE PAVEMENT, WHERE APPLICABLE.
MH or M.H. NDC N.P.S.	MANHOLE NOSE DOWN CURB NO PARKING SIGN	EXISTING UTILITIES WITH THE APPROPRIAT
N.P.S. NLT NRT N.T.S.	NO LEFT TURN NO RIGHT TURN	UTILITY COMPA Verizon: Shenandoah Valley Electric Coc
N.T.S. OHE OHT PIV PL PP	NOT TO SCALE OVERHEAD ELECTRIC OVERHEAD TELEPHONE POST INDICATOR VALVE PROPERTY LINE POWER POLE	SHENANDOAH GAS COMPANY: Water and Sewer (City of Winche)
PR or PROP. PVMT RCP R.D.	POWER FOLE PROPOSED PAVEMENT REINFORCED CONCRETE PIPE ROOF DRAIN	1 1. WHERE PLANS CALL FOR MATCHING E CONTRACTOR SHALL PROVIDE CUT JOIN SMOOTH TRANSITION.
R.D. RED. R.O. SAN. SEW.	ROOF DRAIN REDUCER ROCK OUTCROP SANITARY SEWER	12. ALL PROPERTY CORNER MARKERS DIE ARE TO BE REPLACED AND VERIFIED BY A EXPENSE.
STD. T.B.D. T.B.R.	STANDARD TO BE DEMOLISHED TO BE REMOVED or TO BE REMOVED & RELOCATED	13. PAVEMENT CONSTRUCTION AND MATE VDOT STANDARDS AND SPECIFICATIONS.
T.B.P. TB or T.B. TC	TO BE PRESERVED or PROTECTED THRUST BLOCK TOP OF CURB	14. FIRE LANES SHALL BE DELINEATED A
TEL. or TELE TRB TVRB	TELEPHONE TELEPHONE RISER BOX TELEVISION RISER BOX	15. THE CONTRACTOR SHALL OBTAIN P PRIOR TO CONDUCTING ANY OFF-SITE CON
TYP or TYP. UGE UGG	TYPICAL UNDERGROUND ELECTRIC UNDERGROUND GAS	16. THE CONTRACTOR SHALL COORDIN
UG CATV UGT USWMF or USWMS	UNDERGROUND CABLE T.V. UNDERGROUND TELEPHONE UNDERGROUND STORM WATER MANAGEMENT FACILITY/SYSTEM	THE APPROPRIATE UTILITY COMPANY AS N
XFMR WL or W.L. WM or W.M.	ELECTRIC TRANSFORMER WATERLINE WATER METER	PUBLIC UTILITIES DEPARTMENT PRIOR TO
WPP WTP	WOOD POWER POLE WOOD TELEPHONE POLE	18. ALL EXTERIOR LIGHTS SHALL BE POS
WV or W.V. 5'R *00.00	WATER VALVE RADIUS IN FEET PROPOSED SPOT ELEVATION	SOIL SETTLEMENT.
x00.00 or x(0.00)	EXISTING SPOT ELEVATION HATCHING INDICATES REVERSED PITCH IN THE GUTTER PAN: PITCH TO BE	20. PROVIDE A SEPARATION OF AT LEAST INCHES ABOVE OR BELOW THE ELEVATION
	1/2" PER FOOT. TRANSITION THE GUTTER OVER A 10' LENGTH (TYP).	21. PROVIDE TRAFFIC CONTROLS DURING RIGHTS-OF-WAY.
REZONING APPR	OVAL LETTER:	22. PROVIDE "AS-BUILT" DRAWINGS FOR A Winchester. Coordinate the scope ai Winchester Utility Department prior
	N. M. Car	23. Construction of this project may a pre-construction meeting has been
Winche	ster	
Rouss City Hall	Telephone: (540) 667-1815	REZONING NOTES and SITE DEVEL
15 North Cameron Street Winchester, VA 22601	FAX: (540) 722-3618 TDD: (540) 722-0782 Website: <u>www.winchesterva.gov</u>	PROJECT SITE DEVELOPMENT DATA: TOTAL PROJECT AREA:
March 4, 2019		NINE RESIDENTIAL CONDOMINIUM TOWNHOUSE STYL SIX (6) FOUR-STORY BUILDINGS: (BLDGS.: A, B, C, D, E, F) THREE (3) THREE-STORY BUILDINGS: (BLDGS.: G, H I)
Oakcrest Builders Inc.		TOTAL DWELLING UNITS:
126 N. Kent St. Winchester, VA 22601		BUILDING HEIGHTS: FOUR-STORY BUILDINGS:
Dear Mr. Painter:		FOUR-STORY BUILDINGS: THREE-STORY BUILDINGS:
On Tuesday, February 26, 2	2019, the Winchester City Council acted on the following:	PARCEL COVERAGE: BUILDINGS:
(Map Number 329-01-21) H COMMERCIAL (B-2) DIS	ICE TO REZONE 4.45 ACRES OF LAND AT 3131 VALLEY AVENUE HIGHWAY COMMERCIAL (B-2) DISTRICT TO HIGHWAY TRICT WITH PLANNED UNIT DEVELOPMENT (PUD) OVERLAY	ROADWAYS & AISLE AREAS: CONCRETE DRIVEWAYS: PAVED WALKWAYS & TRAILS: GREEN SPACE
Comprehensive Plan which	equest because the 4.45 acre rezoning is consistent with the calls for mixed-use development in proximity to transit along Valley esent good planning practice. The recommended approval includes support	GREEN SPACE AREA (PERVIOUS): w/ TRAILS:
of a PUD that comprises fer Development Plan dated De building elevations, the sub	esent good planning practice. The recommended approval includes support wer than 5 contiguous acres and is subject to adherence with the Site ecember 3, 2018, general conformity with the submitted floor plans and mitted HOA documents, and the rezoning exhibit titled "REZONING hared by the Winchester Planning Department on January 4, 2019.	COMMON OPEN SPACE: TOTAL SITE GREEN SPACE: NON-CONFORMING AREAS:
	questions, 540-667-1815 ext. 1415.	TOTAL COMMON OPEN SPACE: COMMON OPEN SPACE:
Sincerely,		PROPERTY RESTRICTIONS: PROFFERED RESTRICTION
finhty		PROJECT THE RELATED PROJECT DOCUMENTS, AS APPLICATION. PHASING:
Timothy A. Youmans Planning Director		– IT IS ANTICIPATED THAT THIS PROJECT WILL BE THE CONSTRUCTION WILL BE DIVIDED INTO THREE PHASING BLOCK OF THIS DEVELOPMENT WILL BE
		PROCESS FOR THOSE BUILDINGS INCLUDED IN TH PARKING, ACCESS, AND RECREATIONAL AMENITIES PHASE, AS GENERALLY INDICATED ON THESE PLAN
cab "To be	a financially sound City providing top quality municipal services	- THE RECREATIONAL AMENITIES FOR THE PHASE PAVILION, AND THE ASSOCIATED FIRE PIT AT THE
	a financially sound City providing top quality municipal services ile focusing on the customer and engaging our community."	RECREATIONAL AMENITIES SHALL BE INSTALLED ING – PURSUANT TO THIS REZONING APPLICATION, WE PROPOSED PHASING SCHEDULE. IT IS HEREBY RE DEVELOPER WILL HAVE THE FLEXIBILITY TO REVISE OF ANY PHASE REVISIONS, WITH THE DIRECTOR O

TES	EXISTING CONDITIONS and DEMOLITION PLAN
S: CONFORM TO THE CURRENT STANDARDS OF THE CITY OF A DEPARTMENT OF TRANSPORTATION (V.D.O.T.), THE DING CODE, AND THE RULES AND REGULATIONS OF THE	Ex. Elec. Box Ex. Well NOTE: DEMOLITION AND CLEARING 18" Evergreen
WHERE APPLICABLE. - SHALL CONFORM TO THE STANDARDS AND .TH OF VIRGINIA AND THE CITY OF WINCHESTER, VIRGINIA,	EVERY EFFORT SHOULD BE MADE TO PRESERVE THE EX. TREES AND AMERICAN WIRE FENCE. REMOVE ONLY THE TREES AND FENCING THAT INTERFERES WITH THE PROPOSED CONSTRUCTION IN THESE AREAS. 15" Evergreen
OF THE CONTRACTOR TO NOTIFY "MISS UTILITY" AT 811 NOR TO COMMENCEMENT OF ANY LAND DISTURBING	12" Evergreen of the
N SHOWN BASED UPON THE BEST AVAILABLE INFORMATION. JTILITIES WHICH ARE NOT SHOWN AND SHOULD BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE PRIOR TO CONSTRUCTION. VERIFICATION SHALL BE DONE VATED TEST PITS. ANY DISCREPANCIES BETWEEN THESE DITIONS SHALL BE REPORTED IMMEDIATELY TO THE TER, VIRGINIA.	8" Evergreen 8"
BE INSTALLED UNDERGROUND. OF THE CONTRACTOR TO OBTAIN ALL PERMITS NECESSARY ENCEMENT OF WORK. AN APPROVED SET OF CONSTRUCTION THE SITE AT ALL TIMES.	
DERIVED BASED UPON U.S.G.S. DATUM BY A FIELD SION OF PAINTER-LEWIS, P.L.C. WITH AN ESTABLISHED CONFIRM VERTICAL ELEVATION BENCHMARK INFORMATION	FIVE (6) UNITS: FOUR STORIES HGT:: 35 FEET
BEEN FURNISHED FOR THIS PROJECT. E THE FACE OF CURB, EDGE OF PAVEMENT, OR EDGE OF .E.	"Ex. Water Fitting" and Warthy and Remove 190 (Verity and Remove 190
PINATE THE RELOCATION OF AND THE CONNECTION TO ALL PRIATE UTILITY COMPANY, IF APPLICABLE.	10" Tree 3
MPANIES: (540) 665-3156 COOPERATIVE: (540) 722-5830 (540) 869-1111 NCHESTER): (540) 667-1815	NOTE: DEMOLITION AND CLEARING EVERY EFFORT SHOULD BE MADE TO PRESERVE THE EX. TREES AND AMERICAN WIRE FENCE. REMOVE ONLY THE TREES AND FENCING THAT INTERFERES WITH THE PROPOSED CONSTRUCTION IN THESE AREAS.
NG EXISTING CONCRETE OR PAVEMENT, THE JOINT OR ASPHALT OVERLAY AS REQUIRED TO PROVIDE A	
S DISTURBED OR OTHERWISE OBSCURED BY CONSTRUCTION BY A CERTIFIED LAND SURVEYOR AT THE CONTRACTOR'S	
MATERIAL ITEMS CALLED FOR ON THE PLANS REFER TO ONS.	
ED AS DIRECTED BY THE WINCHESTER FIRE MARSHAL.	
AIN PERMISSION FROM ADJOINING PROPERTY OWNERS CONSTRUCTION ACTIVITIES.	Ex. Bidg. (T.B.R.)
RDINATE THE RELOCATION OF THE EXISTING UTILITIES WITH AS NECESSARY.	(T.B.R.)
AIN A LAND DISTURBANCE PERMIT FROM THE WINCHESTER R TO INITIATING ANY SITE WORK.	12" Tree
POSITIONED TO PRECLUDE DIRECT ILLUMINATION OFF SITE.	10" Tree 203 CONDOMINIUM BUILDING E.
	EX. 18 Trap (T.B.R.) Ex. 24" Trad HGT.: 35 FEET
EAST THREE FEET FROM ANY SITE FEATURE MORE THAN SIX TION OF THE CLOSEST POINT IN ANY PARKING AREA. RING CONSTRUCTION ACTIVITIES IN THE PUBLIC	NOTE: DEMOLITION AND CLEARING EVERY EFFORT SHOULD BE MADE TO PRESERVE THE EX. TREES AND AMERICAN WIRE FENCE. REMOVE ONLY THE TREES AND FENCING THAT INTERFERES WITH THE PROPOSED CONSTRUCTION IN
OR ALL IMPROVEMENTS AS REQUIRED BY THE CITY OF	THESE AREAS. X X X X X X X X X X X X X X X X X X X
PE AND FORMAT OF THE AS-BUILTS WITH THE CITY OF RIOR TO BEGINNING CONSTRUCTION.	TAT EL QH, Wree S Pole (T.B.R.)
T MAY NOT BEGIN UNTIL PLANS HAVE BEEN APPROVED AND BEEN HELD.	747
	15° B.R.L 10° SETBACK
VELOPMENT INFORMATION:	1245
4.4449 Ac.	
E STYLE BUILDINGS: 31 D.U. TOTAL IN THESE BUILDING TYPES	
14 D.U. TOTAL IN THESE BUILDING TYPES	
45 DWELLING UNITS	SITE DEVELOPMENT - PHASING PLAN:
42'—0" MAXIMUM ROOF HEIGHT 35'—7" MEAN ROOF HEIGHT	Phase 2 Phase 3
33,315 Sq. Ft. (0.76 Ac.) 54,481 Sq. Ft. (1.25 Ac.) 10,820 Sq. Ft. (0.25 Ac.) 14,165 Sq. Ft. (0.33 Ac.) 80,840 Sq. Ft. (1.85 Ac.)	
41.8% of the SITE 49.1% of the SITE	
35% REQUIRED COMMON OPEN SPACE 95,005 Sq. Ft. 26,936 Sq. Ft. 68,069 Sq. Ft. (1.56 Ac.)	
35.2 % of the SITE RICTIONS OR COVENANTS WILL APPLY TO AND BECOME PART OF THIS S, AS SPECIFIED IN ACCORDANCE WITH THE APPROVED REZONING	
LL BE CONSTRUCTED CONTINUOUSLY OVER A 18 MONTH TIME FRAME. THREE (3) PHASES, AS INDICATED ON THE PHASING PLAN. EACH BE BUILT IN ITS ENTIRETY THROUGH THE OCCUPANCY PERMIT IN THAT BLOCK, PRIOR TO STARTING THE SUBSEQUENT PHASES. ALL ITIES SHALL BE CONSTRUCTED AS IT RELATES TO THAT BUILDING PLANS.	
PHASE I DEVELOPMENT SHALL INCLUDE ALL WALKING TRAILS, THE THE PAVILION. BY THE END OF THE THIRD PHASE, ALL REMAINING ED INCLUDING THE CREEK SIDE PATIO AREA AND FIRE PIT. IN, WE ARE REQUESTING SOME FLEXIBILITY IN THE TIMING OF THE BY REQUESTED THAT WITH APPROVAL OF THIS APPLICATION, THE REVISE THE PHASING SCHEDULE, PENDING THE REVIEW AND APPROVAL	Defis at creeks de site plan
TOR OF PLANNING OF THE CITY OF WINCHESTER.	



PROJECT TRAFFIC IMPACTS: TRIP GENERATION: REFERENCE: TRIP GENERATION MANUAL, 9th EDITION BY-RIGHT USE: B-2 RETAIL PARCEL: 4.4449 Ac. POTENTIAL GROSS SQUARE FOOTAGE PER ACRE: 25% RETAIL AREA: 4.4449 x 0.25 = 1.111 Ac => 48,405 Sq. Ft. USE 48,000 Sq. Ft. GROSS LEASABLE RETAIL SPACE TRIP GENERATION: USE: RETAIL SPACE: 48,000 Sq. Ft. TRIPS PER 1000 Sq. Ft. GROSS AREA 48,000 Sq. Ft./1000 Sq. Ft. = 48 => 48 (1000 Sq. Ft.) WEEKDAY: X = 48Ln(T) = 0.65 Ln(X) + 5.83Ln(T) = 0.65 Ln(48) + 5.83T = 4214.48 => (4215 Trips Weekday)(50% Entering, 50% Exiting) PROPOSED USE: B-2 with PUD OVERLAY: RESIDENTIAL CONDOMINIUM TOWNHOUSE PARCEL: 4.4449 Ac. DEVELOPMENT: 45 TOWNHOUSE STYLE CONDOMINIUMS TRIP GENERATION: USE: RESIDENTIAL CONDOMINIUM TOWNHOUSE: 45 UNITS TRIPS PER DWELLING UNIT RESIDENTIAL CONDOMINIUM TOWNHOUSE UNITS: 45 UNITS WEEKDAY: X = 45 Ln(T) = 0.87 Ln(X) + 2.46Ln(T) = 0.87 Ln(45) + 2.46T = 321.11 => (321 Trips Weekday) (50% Entering, 50% Exiting) PROPOSED SITE DEVELOPMENT: TOTAL NUMBER OF TRIPS FOR THE SITE: (MAXIMUM) T = 321 TRIPS (WEEKDAY)BY-RIGHT USE: TOTAL NUMBER OF TRIPS FOR THE SITE: (MAXIMUM) T = 4872 TRIPS (WEEKDAY)PROPOSED USE RESULTS IN SUBSTANTIALLY LESS TRAFFIC ON THE AISLES, ROADWAYS, & CITY STREETS. SITE DEVELOPMENT – PARKING CALCULATION: PARKING REQUIRED: ONE & TWO BEDROOM DWELLING UNITS: 1 SPACE PER DWELLING UNIT BUILDINGS: G, H, & I: 14 UNITS  $1 \times 14$  DWELLING UNITS = 14 SPACES THREE BEDROOM DWELLING UNITS: 2 SPACES PER DWELLING UNIT BUILDINGS: A, B, C, D, E, & F: 31 UNITS 62 SPACES  $2 \times 31$  DWELLING UNITS =

TOTAL ON-SITE PARKING REQUIRED: 76 SPACES PARKING PROVIDED: 15 EA. TWO-CAR GARAGE UNITS: 30 SPACES 30 SPACES 30 EX. ONE-CAR GARAGE UNITS: 24 SPACES SITE PARKING (PARALLEL SPACES): 84 SPACES TOTAL ON-SITE PARKING PROVIDED:

UTILITY LEGEND	
	EX. WATER LINE
	PR. WATER LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	UNDERGROUND ELECTRIC LINE
	OVERHEAD ELECTRIC AND TELEPHONE LINE

PR. OPEN SPACE & COMMON AREAS

15" Evergreei

12" Evergreer

8" Evergree

8" Evergreer

28

BUFI

×ω ·

10"

18"

BUFI

₽.

12" Tree

24" Tree{

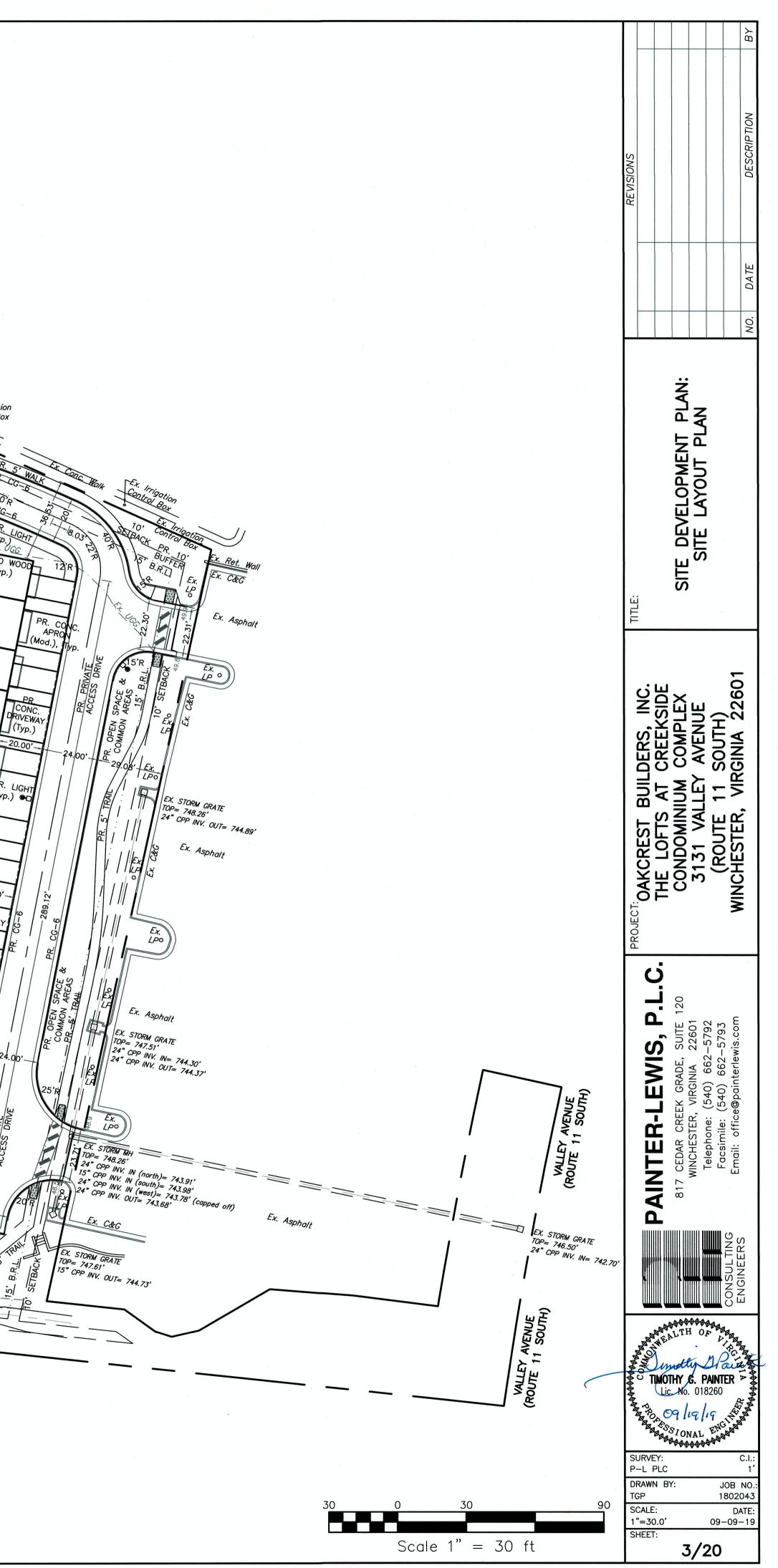
РR. НФСР

RAMP

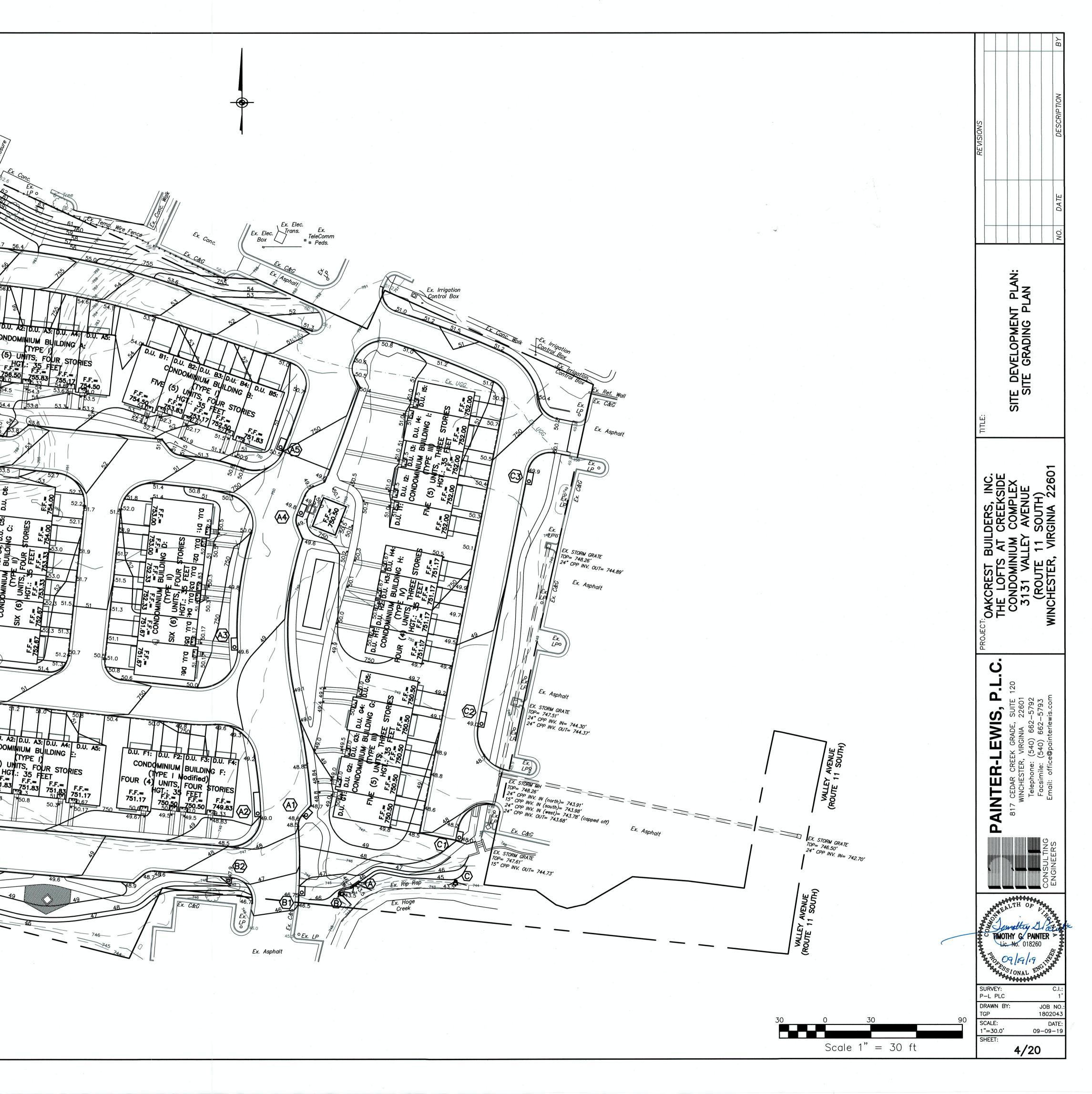
12" Tre

10" Tre

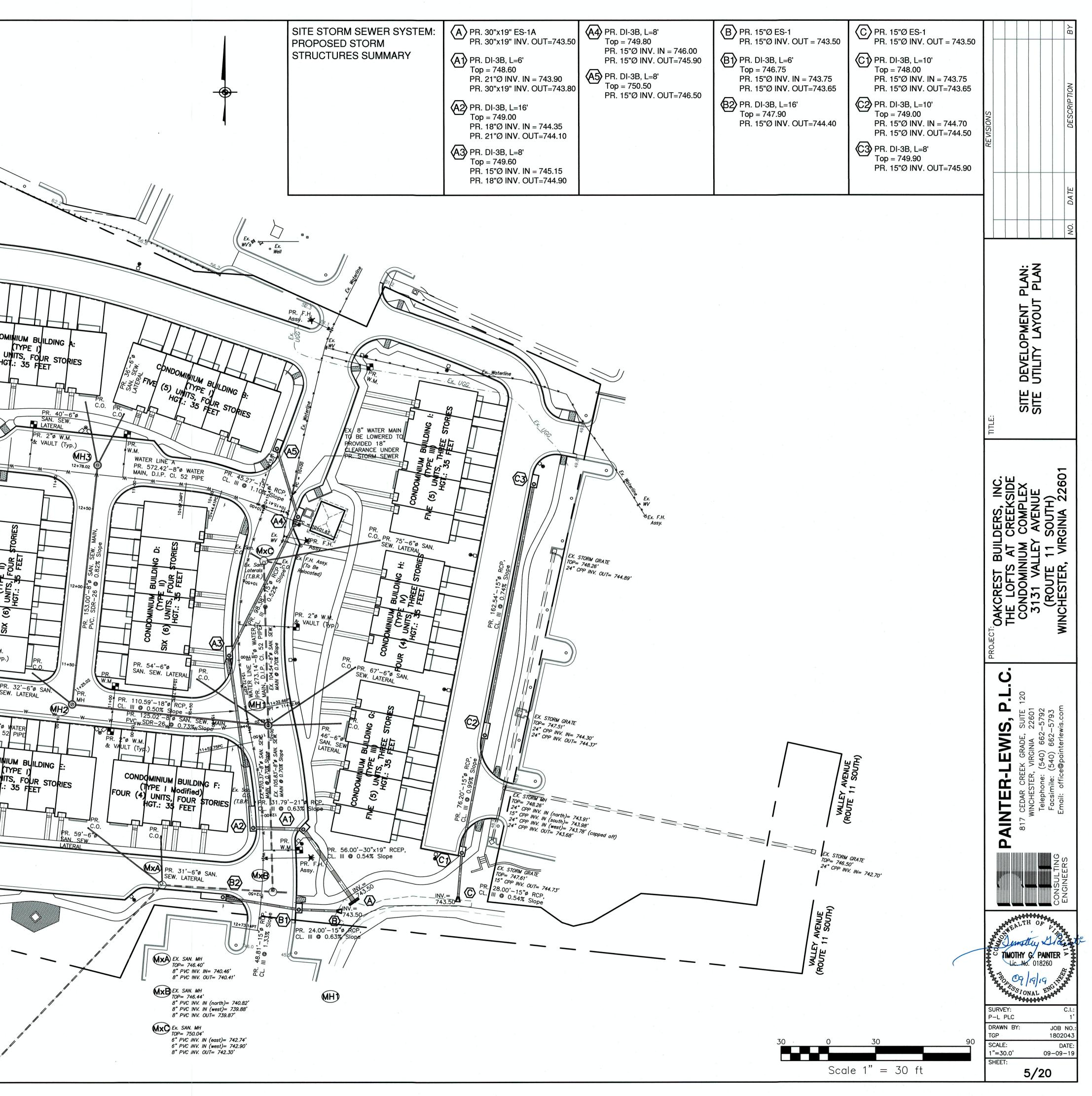
Ex. Elec. Box 18" Evergreen ( SETBACK Trans. IS' B.R.L Ex. Elec. TeleComm Box Peds. FIXTURE LIGHT (Typ.) 41.75' PRIVATE ACCESS DRIVF 488 R PNDOMINIUM BUILDING TYPE N N N FIVE HGT: 35 FEET GN STOP SIGN -32.58 (5) LEVATE DECK (Typ.) PR. 5' TRAIL w/Heavy Pvmt. 4 22.00'-PR. PARKING PR. PRIVATE ACCESS\_DRIVE 127.10 5 CONC. ELEVATED WOOD DECK PR 16'x20 (Mad.), Typ. PAVILION (Typ.) PR COMMON AREA RE RIVEWA ï LISE SE (Тур.) 20.00'ā 9 PR. CONC. (Typ.) -20.00'-PR. ELEVATED WOOD DECK (Typ.) C APRO PR. HDCP THE AL (Mod.) RAMP (Typ.) R. ELEVATED WOOD DECK (Typ.) PR. PRIVATE ACCESS DRIVE (yp.) APR 80 CONC DRIVEWAY APRON DRIVEW CONDOMINIUM BUILDING FIVE (5) UNITS, FOUR STORIES CONDOMINIUM BUILDING F: (TYPE I Nodified) FOUR (4) UNITS, FOUR STORIES IGT.: 35 FEET -24.00'-(2) 350'R PR. PUBL ACCESS 10'R -24.00'-PR. PRIVATE PR. CG-6 ACCESS DRIVE LIGHT × (Typ.) 22.00'--- PR. PARKING -209.28'-5 PR. CG-6 PR. STOP SIGN 20 PR. HDCP 10/ SEIBACK RAMP (Typ.) R. BENCHES ------PR. PAVERS PR. STOP x. Hoge Creek PR. COMMUNITY SIGN29.82' Ex. C&G ERRACE FIRE PIT 10 SETBACK PR. 10' LP 0 46.0 BUFFER SC Ex. LP Ex. Asphalt



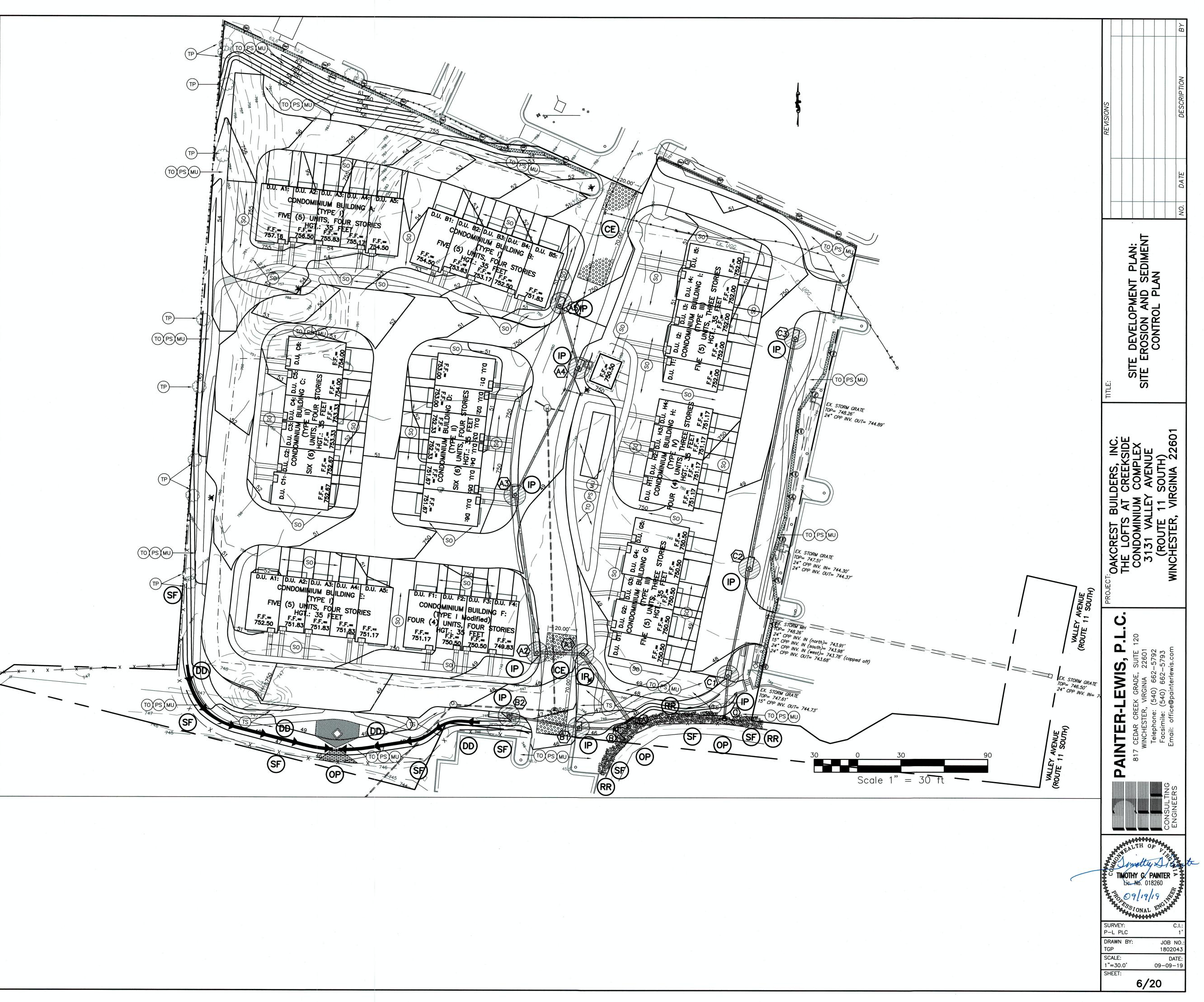
			15" Evergreen 12" Evergreen 8" Evergreen 8" Evergreen 55.5 55.
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	STORM SEWER LINE		
	SANITARY SEWER LINE		
	GAS LINE		
	UNDERGROUND ELECTRIC LINE		



EX. SAN. MH TOP= 746.40'	STRUCTURES SUMMARY		
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	- UNDERGROUND ELECTRIC LINE		
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EROSION & SEDIMENT CONTR	ROL KEY			*
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. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final arade but will remain dormant for longer than 140 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.

2. During construction of the project, soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site.

3. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform. nature enough to survive and will inhibit erosion.

. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.

5. Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation

6. Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin.

a. The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres. b. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic vards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a 25-year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized.

. Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.

8. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.

9. Whenever water seeps from a slope face, adequate drainage or other protection shall be provided. 10. All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.

10. All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.

11. Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.

12. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.

13. When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.

14. All applicable federal, state and local regulations pertaining to working in or crossing live watercourses shall be met.

15. The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.

16. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:

- a. No more than 500 linear feet of trench may be opened at one time. b. Excavated material shall be placed on the uphill side of trenches.
- c. Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site
- d. Material used for backfilling trenches shall be properly compacted in order to minimize erosion and
- promote stabilization e. Restabilization shall be accomplished in accordance with these regulations.
- f. Applicable safety regulations shall be complied with.

7. Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or public road surface, the road surface shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual development lots as well as to larger land-disturbing activities.

18. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the VESCP. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.

19. Properties and waterways downstream from development sites shall be protected from sediment deposition erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria. Stream restoration and relocation projects that incorporate natural channel design concepts are not man-made channels and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels:

a. Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed. b. Adequacy of all channels and pipes shall be verified in the following manner:

(1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question; or (2) (a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks.

(b) All previously constructed man-made channels shall be analyzed by the use of a ten-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not cause erosion of channel bed or banks; and

(c) Pipes and storm sewer systems shall be analyzed by the use of a ten-year storm to verify that stormwater will be contained within the pipe or system. c. If existing natural receiving channels or previously constructed man—made channels or pipes are not

adequate, the applicant shall: (1) Improve the channels to a condition where a ten-year storm will not overtop the banks and a two-year storm will not cause erosion to the channel bed or banks; or

(2) Improve the pipe or pipe system to a condition where the ten-year storm is contained within the appurtenances;

(3) Develop a site design that will not cause the pre-development peak runoff rate from a two-year storm to increase when runoff outfalls into a natural channel or will not cause the pre-development peak runoff rate from a ten—year storm to increase when runoff outfalls into a man—made channel: or (4) Provide a combination of channel improvement, stormwater detention or other measures which is

- satisfactory to the VESCP authority to prevent downstream erosion. d. The applicant shall provide evidence of permission to make the improvements. e. All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development of the subject project.
- f. If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance. g. Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipators shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel.
- h. All on-site channels must be verified to be adequate. . Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be

liverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility. j. In applying these stormwater management criteria, individual lots or parcels in a residential, commercial or

industrial development shall not be considered to be separate development projects. Instead, the development, whole, shall be considered to be a single development project. Hydrologic parameters that reflect the

ıltimate development condition shall be used in all engineering calculations.

k. All measures used to protect properties and waterways shall be employed in a manner which minimizes on the physical, chemical and biological integrity of rivers, streams and other waters of the state.

I. Any plan approved prior to July 1, 2014, that provides for stormwater management that addresses any flow rate capacity and velocity requirements for natural or man—made channels shall satisfy the flow rate capacity and velocity requirements for natural or man-made channels if the practices are designed to (i) detain the water quality volume and to release it over 48 hours; (ii) detain and release over a 24-hour period the expected rainfall resulting from the one year, 24-hour storm; and (iii) reduce the allowable peak flow rate resulting from the 1.5, 2, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels as defined in any regulations promulgated pursuant to 62.1-44.15:54 or 62.1-44.15:65 of the Act. m. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of 62.1-44-15:52A of the Act and this subsection shall be satisfied by compliance with water quantity requirements in the Stormwater Management Act (62.1-44.15:24 et seq. of the Code of Virginia) and attendant regulations, unless such land disturbing activities are in accordance with 9VAC25-870-48 of the Virginia

Stormwater Management Program (VSMP) Regulations. n. Compliance with the water quality standards set out in 9VAC25-870-66 of the Virginia Stormwater Management Program (VSMP) Regulations shall be deemed to satisfy the requirements of subdivision 19 of this subsection.

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. All work shall be done in accordance with the current edition of the Virginia Erosion and Sediment Control Handbook and the standards and specifications of the City of Winchester, Virginia,

2. A City of Winchester Land Disturbance permit shall be required for this project. In accordance with the requirements of the City Engineer, a pre-construction meeting with the local program administrator is required prior to commencement of construction of this project.

3. The local program administrator shall be given at least a one (1) week notice prior to the pre-construction conference. the commencement of any land disturbing activity, and to the final inspection.

by the local program administrator.

### SEDIMENT AND EROSION CONTROL NARRATIVE 1. Project Description:

This project shall consist of the construction of forty—five (45) townhouse style condominiun units on a 4.45 acre site located in the southwestern portion of the Creekside Station shopping center complex in the city limits of Winchester, Virginia. The proposed construction shall include the construction of new private streets and drive aisles in and around the condominium complex. The construction process shall include demolition of an existing accessory building and some partially developed areas of curbing and miscellaneous utility work, complete site grading, utility installation and extensions, paving, landscaping, and on—site storm water quality measures. The total area of disturbance will encompass the entire site totaling approximately 4.45 acres.

2. Existing Conditions:

he proposed site is situated between the Kernstown Battlefield and three commercial developments. As stated, it is located in the southwestern portion of the Creekside Station shopping center within the city limits of the City of Winchester, Virginia. This project proposes to demolish an existing outbuilding and some partial developmental improvements on this 4.4449 acre site. Some light clearing and removal of soil stockpiles is needed, as well. The site has been used as a staging area and was intended to be an extension of Creekside Station, initially, so there are areas of stone; small, partial parking lot areas; and a main paved travelway that must be removed as part of this development. The proposed residential complex construction shall include removal of the remaining topsoil areas, cut and fill excavations for the proposed buildings, roadways, and parking facilities, installation of the storm water management facilities, water, sewer, and service utilities installation, and paving of the proposed roadways and parking areas for use by the future residents and their quests. This parcel is currently not in use, but still serves as a travelway between the commercial developments and has some stored materials on site. The site is generally open with a few sparse trees and soils stockpiles, as stated previously. The entire site will be disturbed to develop the proposed improvements. The area of disturbance shall be limited to the property boundaries and the utility tie-in installations to be constructed on the adjacent parcels. There are some rock outcroppings throughout this site which will impact construction. The limits of construction have been shown on these plans and the construction access to the site shall be provided from both Creekside shopping center developments to the north and south of this site.

3. Adjacent Areas:

The site is bounded to the east by an existing physical therapy commercial use. The developments to the north and south consist of the Creekside shopping center developments. Creekside Station is located to the north with the original Creekside Village situated on the adjacent parcel to the south. The unimproved, historic Kernstown Battlefield site boundary coincides with the western boundary line of this parcel. As stated, the area of disturbance shall include the entire site and limited to the existing property boundaries with only tie-in connections to be made to the adjacent commercial developments.

4. Off-Site Areas:

No off site areas will be adversely affected. Utility construction within the existing travelway may disrupt some local through traffic, at times.

5. Soils:

The soils map of Frederick County does not include the soil types within the boundaries of the City of Winchester Corporate

6. Critical Areas:

The existing creek channel of Hoge Run that runs along the southern boundary of this development.

- 7. Construction Sequencing:
- 1. Site Preparation a. Hand dig test pits over existing utilities to determine their depth and actual locations.
- b. Demolition of the existing outbuilding and miscellaneous clearing and demolition.
- 2. Phase I Controls: a. Installation of the construction entrances.
- b. Installation of the safety fence around the perimeter of the parcel. Installation of the required protective screening around the trees, the existing utilities, and along the pedestrian walkways and perimeter boundaries.
- c. Installation of the silt fence along the individual site boundaries, as indicated on the plans. d. Rough grading of parking, roadways, and subgrade elevations of the condominium units to the grades shown.
- e. Rough grading of the adjacent slopes and lawn areas. f. Installation of the storm sewer systems (management and water quality) and sanitary systems.
- g. Installation of the water mains and all service utilities and site lighting utilities and structures. h. Stabilization of all disturbed areas until the full development of the site occurs.
- 3. Phase II:
- a. Final grading of all disturbed areas.
- b. installation of driveways, curb and gutter systems, and perimeter walkways. c. Installation of stone base and pavement structures for all roadway, access areas, and parking facilities. d. Installation of lighting fixtures and all landscaping
- e. Stabilization of all disturbed areas.

The contractor shall be responsible for the installation and maintenance of all erosion and sediment control measures. All measures shall be inspected daily and after each significant rainfall by the site superintendent or his representative. Any damaged structures shall be repaired or replaced by the end of work that day.

the existing pavement. If the pavement becomes too soiled with soil, mud, and debris that it will not prevent tracking onto the right—of—way, then it shall be cleaned and/or washed, as may be deemed necessary. A trash rack shall be installed as part of the construction entrance construction. If this measure fails to properly clean the construction vehicles, then a wash rack must be installed as directed by the local program administrator.

it shall be cleaned carefully so as not to release the trapped sediment downstream or on adjacent properties.

c. All seeded and sodded areas shall be checked regularly to ensure that a good stand of grass is maintained. Areas shall be repaired, fertilized, and reseeded or resodded, as required.

a. Erosion and Sediment Control Measures shall be installed prior to any land disturbing activities. The work shall be confined to the designated limits of clearing and grading. For this project, the limits of clearing and grading are defined by the property boundaries and the rights-of-way of the City streets. All perimeter sediment control devices shall be erected prior to any land disturbing activities and shall remain in place until the site is fully stabilized.

b. No disturbed areas shall be denuded for more than thirty (30) days. The contractor shall stabilize all exposed areas within seven (7) days after the end of construction of that phase of the work. If possible, all natural vegetation and/or mulching shall be used to protect areas exposed during development of the site. The existing vegetation along the limits of clearing and grading shall remain in place and be protected during the construction process to the greatest possible extent.

c. Soil stockpiles must be stabilized or protected with sediment trapping measures to prevent soil loss. Utility trenches located outside of paved areas shall be seeded and mulched within two (2) weeks of backfilling.

d. Upon completion of construction, all permanent erosion and sediment control measures shall be installed. After stabilization, the temporary erosion control measures shall be removed, as approved by the local program administrator. All vegetative cover shall be checked regularly and any damaged areas shall be repaired, fertilized, replanted, and mulched, as

e. All property areas immediately adjacent to the work site shall be protected from sediment deposition. This shall be accomplished by installing perimeter controls such as silt fence barriers, diversion dikes, filters or check dams, or a combination of such measures, as indicated on the plans.

f. The contractor shall be responsible for the installation and maintenance of all erosion and sediment control measures.

g. The contractor shall perform over lot grading to provide positive drainage and preclude ponding of water. If applicable, all off site grading and construction is to be done with the property owner's consent. The City of Winchester, Virginia shall be contacted prior to performing any work within their rights-of-way or for connections to their service utilities.

3.01 Safety fence shall be installed in selected locations to ensure that the safety of the public is maintained at all times by segregation of the construction area from the public. See the plan for the appropriate locations.

3.02 A 20'w by 70'l temporary stone construction entrance will be constructed along the existing travelway to the nrth from Creekside Station and to the south from Creekside Village, as indicated on these plans and as needed. The entrances shall be maintained in a condition which will prevent tracking or flow of soil or mud onto the adjacent property and public travel aisles. This may require periodic top dressing with additional stone or the washing and reworking of existing stone, as conditions demand, and repair or cleaning of any structures used to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately. The use of water trucks to remove materials dropped, washed, or tracked onto roadways will not be permitted under any circumstances.

3.05 Silt fence will be installed in selected locations downstream from the construction areas as a first measure of construction. Silt fence will be installed around the downstream side of topsoil stockpiles. Silt fences shall be inspected after each rainfall and at least daily during prolonged periods of rainfall. Any required repairs shall be made immediately. Damaged, decomposed or otherwise ineffective silt fence shall be replaced immediately. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier. Any sediment deposits remaining in place after the silt fence is no longer needed shall be dressed to conform with the existing grade and stabilized.

3.07 A gravel and wire mesh drop inlet sediment filter will be installed around each of the existing storm water drop inlets. The structures shall be inspected after each rain and repairs made as needed. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to one half the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode. Structures shall be removed and the area stabilized when the remaining drainage area has been properly stabilized.

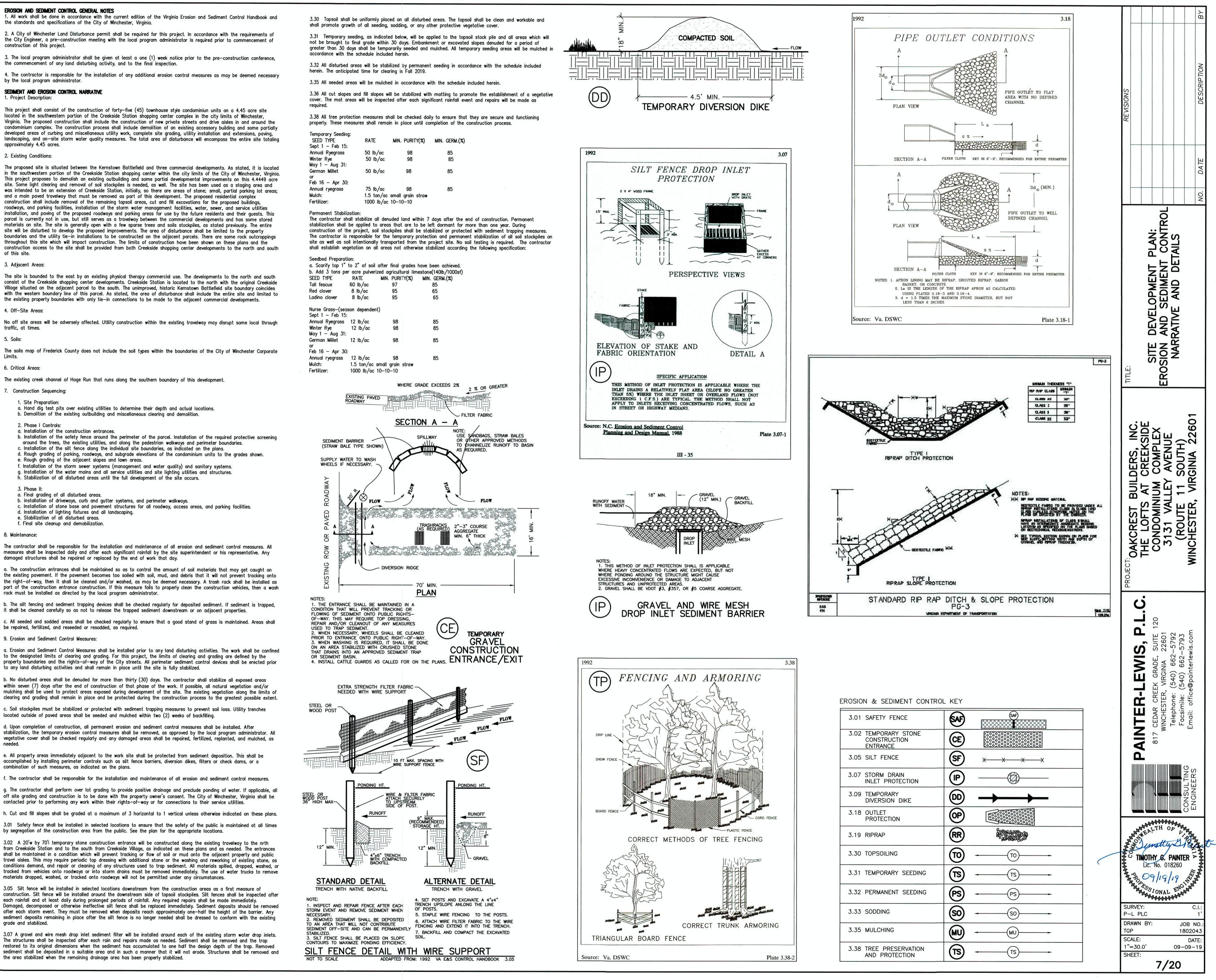
a. The construction entrances shall be maintained so as to control the amount of soil materials that may get caught on

b. The silt fencing and sediment trapping devices shall be checked regularly for deposited sediment. If sediment is trapped,

8. Maintenance:

f. Final site cleanup and demobilization.

9. Erosion and Sediment Control Measures:



## LANDSCAPE NOTES:

1. Public Right-of-way Landscaped Area: None Required

2. Street Trees: None Required

3. Parking Lot Landscaping: (1) tree per 2000 sf of Off-Street Parking Area Off-Street Parking Area: 54,481 sf Trees Required: 54,481/2000 = 27.2 = 27 trees Trees Proposed: 27

4. Building Foundation Plantings: Foundation plantings have been provided along the front building facades of the proposed residences. (See the following Landscape Sheet)

5. Buffers Required: An evergreen screening buffer is provided per the existing development proffers.

6. The owner of the property shall maintain required landscaping in good condition and shall make reasonable provisions to protect landscaped areas form damage caused by vehicles, pedestrians, shopping carts, etc. Dead or dying vegetation shall be replaced per direction of the Administrator. Replacement shrubs shall be of a size consistent with that which would could normally be expected based upon the specific species and the length of time elapsed since initial installation of said required landscaping elements. Replacement trees shall be 1/2" caliper larger for each year since initial installation of said required trees, except that no owner shall be required to replace any tree with another tree larger than five (5) inches in caliper.

### LANDSCAPE INSTALLATION:

1. Confirm the locations of any utilities above or below ground prior to commencing work. Contact the Landscape Architect in the event that utilities or any other structure conflicts with the layout shown on the plan.

2. Verify the quantities shown on the plant list with totals indicated on the plan. Contact the Landscape Architect in the event that discrepancies exist. Supply unit prices to the Owner at time of bidding.

3. All materials are subject to approval by the Owner or Owner's representative. Provide the Owner with a tag from each plant species and a list of the plant suppliers. Where any requirements are omitted from the Plant List, use plants which meet the normal requirements for the variety according to the American Association of Nurserymen.

4. Plants shall be sound, healthy, vigorous, well branched, free of disease, insect eggs and larvae, and shall have adequate root systems.

5. Sizes specified in the Plant List are minimum sizes against which the plants will be judged. Failure to meet minimum size on any plant will result in rejection of that plant.

6. Groups of shrubs shall be placed in a continuous mulched bed with smooth, continuous edges as shown on the plan. All mulched beds shall be curvilinear in shape following the contour of the plant mass. Apply a minimum of 4 inches of mulch uniformly over beds. Trees located within four feet of any shrub bed shall share the same bed. Grade finished planting beds so as not to impede surface drainage.

7. Locate trees a minimum of 3 feet from walls or walks, if possible.

8. Stake and guy all trees according with standard practice and/or the suppliers recommendations. At a minimum, all deciduous trees shall be double-guyed with 72" hardwood stakes driven firmly into the ground. Secure tree to stakes with #9 galvanized wire guys with rubber hose connections. Stakes shall be 2" x 2" x 72".

9. Use shredded hardwood bark mulch in all planting beds.

10. Remove all tags, twine and containers from installed plants. Roll back burlap one third on all B&B plants.

11. Plant substitutions are permitted with consent from the Landscape Architect.

12. Prepare the soil in all bedding areas by mixing into the top six inches of soil one cubic yard of manure, peat and 10-6-4 granular fertilizer per 100 square feet of area. Remove any turf, weeds or other vegetation completely prior to installation.

13. Plant all materials in their appropriate season. The Contractor shall guarantee all plant materials and workmanship for a period of one year from time of installation.

14. All existing plant materials shall remain unless otherwise noted on the Site Plan.

UTILITY LEGEND	
	EX. WATER LINE
	PR. WATER LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	UNDERGROUND ELECTRIC LINE
	OVERHEAD ELECTRIC AND TELEPHONE LINE

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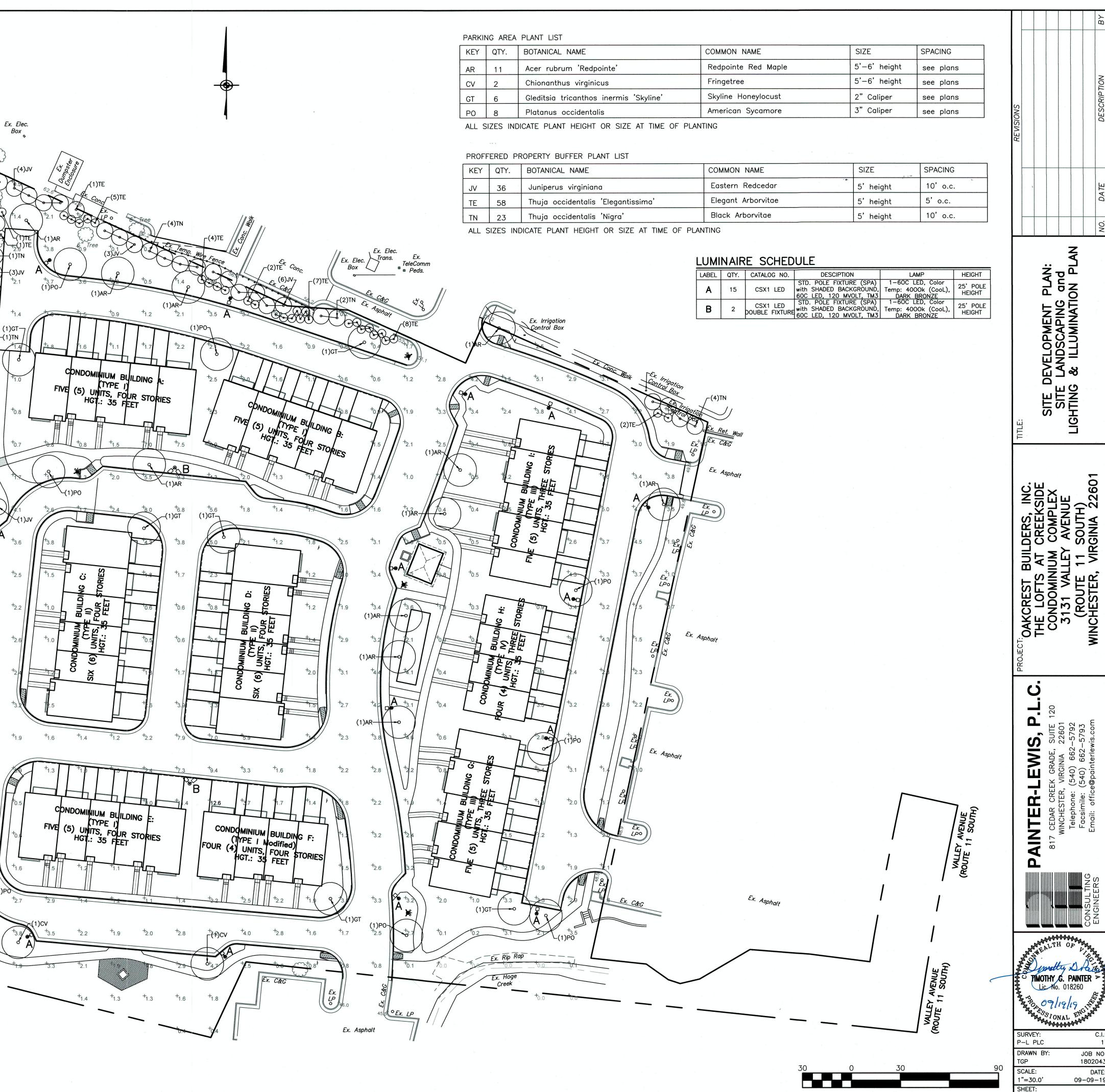
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**1**-10.

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(1)TN-



	COMMON NAME	SIZE	SPACING
nte'	Redpointe Red Maple	5'—6'height	see plans
S	Fringetree	5'—6'height	see plans
nermis 'Skyline'	Skyline Honeylocust	2"Caliper	see plans
	American Sycamore	3" Caliper	see plans

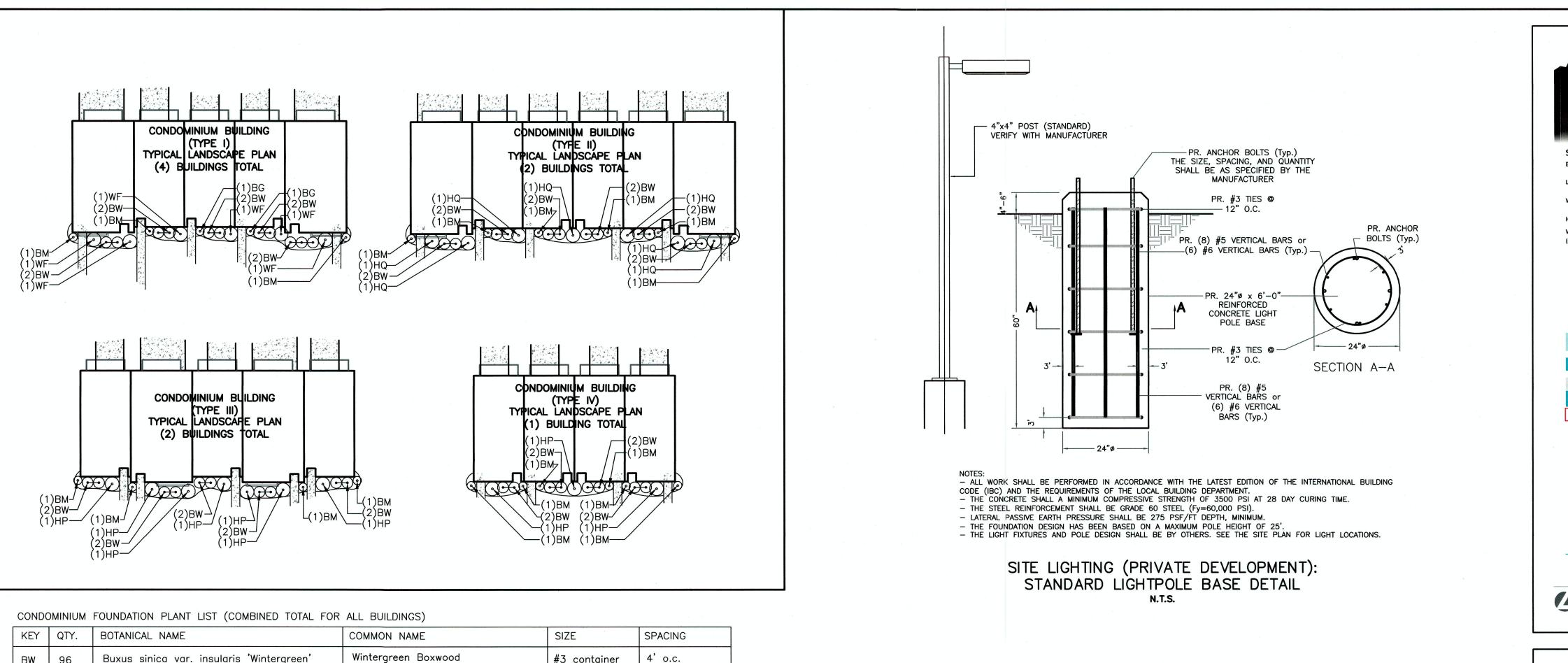
TOLL
LIJI

	COMMON NAME	SIZE	SPACING
	Eastern Redcedar	5' height	10' o.c.
Elegantissima'	Elegant Arborvitae	5' height	5' o.c.
Nigra'	Black Arborvitae	5' height	10'o.c.

LUMI	NAIR	E SCHED	ULE		
LABEL	QTY.	CATALOG NO.	DESCIPTION	LAMP	HEIGHT
Α	15	CSX1 LED	STD. POLE FIXTURE (SPA) with SHADED BACKGROUND, 60C LED, 120 MVOLT, TM3	1–60C LED, Color Temp: 4000k (CooL), DARK BRONZE	25' POLE HEIGHT
В	2	CSX1 LED DOUBLE FIXTURE	STD. POLE FIXTURE (SPA) with SHADED BACKGROUND, 60C LED, 120 MVOLT, TM3	1–60C LED, Color Temp: 4000k (CooL), DARK BRONZE	25' POLE HEIGHT

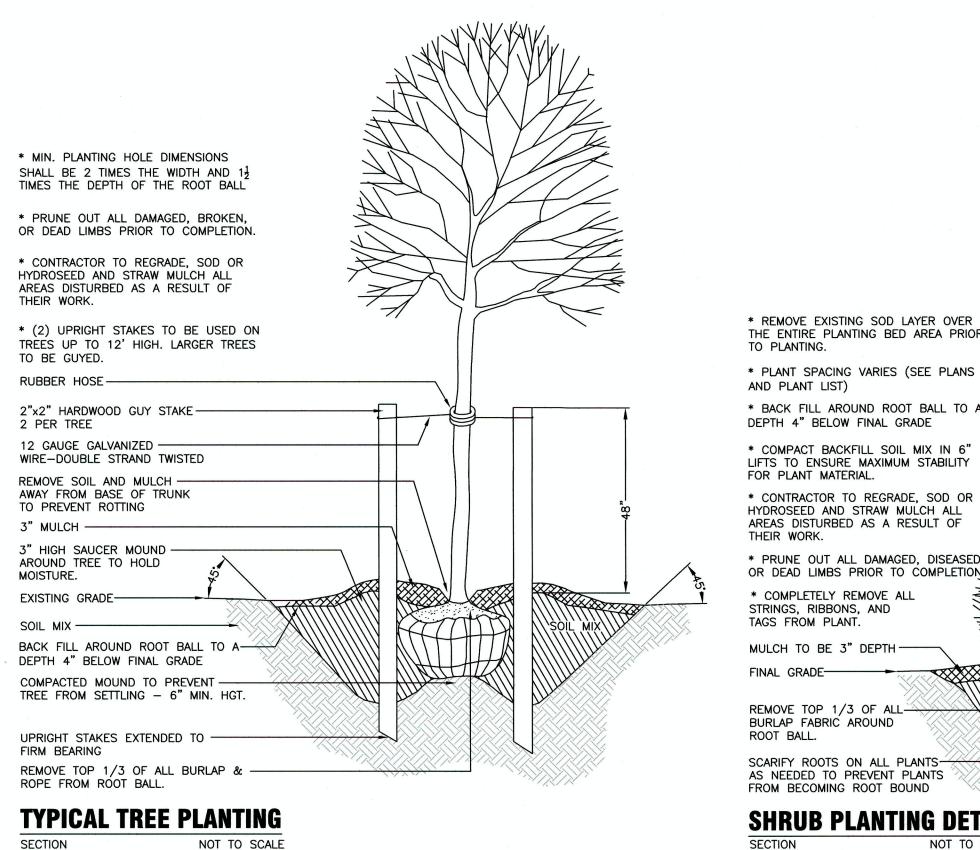
Scale 1" = 30 ft

8/20



CC	CONDOMINIUM FOUNDATION PLANT LIST (COMBINED TOTAL FOR ALL BUILDINGS)										
K	ΈY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING					
В	8W	96	Buxus sinica var. insularis 'Wintergreen'	Wintergreen Boxwood	#3 container	4' o.c.					
В	BM	46	Buxus 'Green Mountain'	Green Mountain Boxwood	#3 container	see plans					
н	IP	17	Hydrangea paniculata 'Little Quickfire'	Little Quickfire Hydrangea	#3 container	see plans					
н	IQ	14	Hydrangea quercifolia	Oakleaf Hydrangea	#5 container	see plans					
W	/F	24	Weigela florida 'Variegata'	Variegated Weigela	#5 container	see plans					

ALL SIZES INDICATE PLANT HEIGHT OR SIZE AT TIME OF PLANTING



THE ENTIRE PLANTING BED AREA PRIOR

\* BACK FILL AROUND ROOT BALL TO A

DEPTH 4" BELOW FINAL GRADE

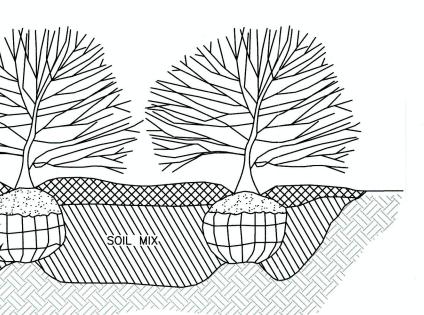
HYDROSEED AND STRAW MULCH ALL AREAS DISTURBED AS A RESULT OF

\* PRUNE OUT ALL DAMAGED, DISEASED, OR DEAD LIMBS PRIOR TO COMPLETION

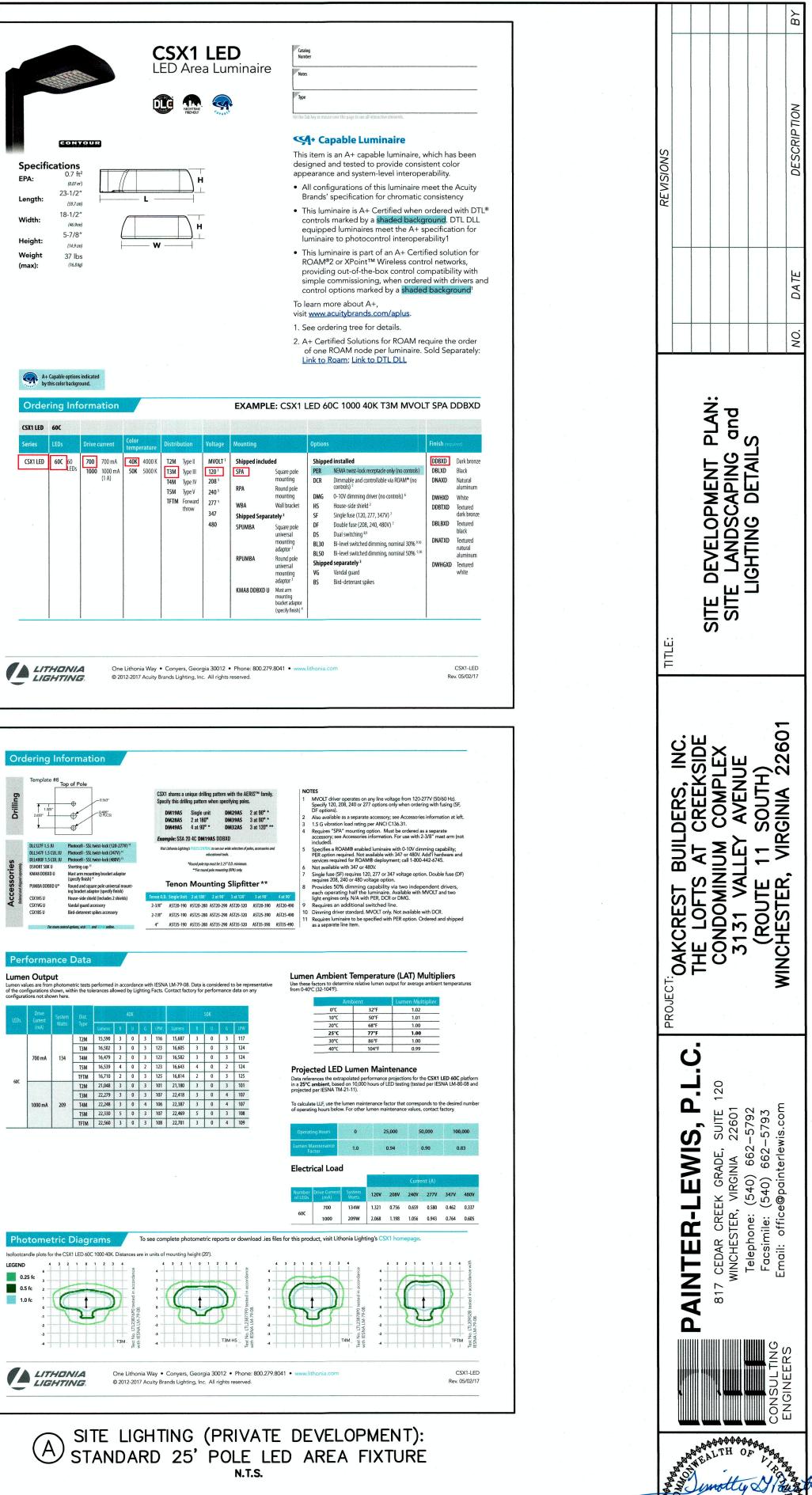
REMOVE TOP 1/3 OF ALL

SCARIFY ROOTS ON ALL PLANTS-AS NEEDED TO PREVENT PLANTS FROM BECOMING ROOT BOUND

**SHRUB PLANTING DETAIL** SECTION NOT TO SCALE



LABEL Α В STATI



# LUMINAIRE SCHEDULE

LABEL	QTY.	CATALOG NO.	DESCI	PTION	MP	HEIGHT					
A	15	CSX1 LED	STD. POLE F with SHADED 60C LED, 120	BACKGRÒUNĎ,	Temp: 400	ED, Color Ok (CooL), BRONZE	25' POLE HEIGHT				
В	2	CSX1 LED DOUBLE FIXTURE	STD. POLE F with SHADED 60C LED, 120	IXTURE (SPA) BACKGROUND, ) MVOLT, TM3	Temp: 400	ED, Color Ok (CooL), BRONZE	25' POLE HEIGHT				
STATISTICS											
DESCR	IPTION	SYMBOL	AVERAGE	MAXIMUM	MINIMUM	MAX./MIN.	AVG./MIN.				
CALC. Z	ZONE II	+	2.2 fc	12.6 fc	0.0 fc	N/A	N/A				

NOTES: SITE LIGHTING -A FULL CUT-OFF VISOR MUST BE INSTALLED FOR ALL BUILDING MOUNTED LIGHTING TO PREVENT ILLUMINATION OFF-SITE. -ALL BUILDING MOUNTED FLOOD LIGHTS SHALL BE FULLY SHIELDED AND DOWNCAST, AS REQUIRED. -ALL SITE LIGHT POLES SHALL BE EQUIPPED WITH SUPPLEMENTAL OPAQUE SHIELDING ON THE RESIDENTIAL SIDE TO PREVENT ILLUMINATION AND LESSEN GLARE OFF-SITE.

TIMOTHY G. PAINTER

Lic. No. 018260

ONAL

JOB NO

1802043

09-09-1

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SURVEY:

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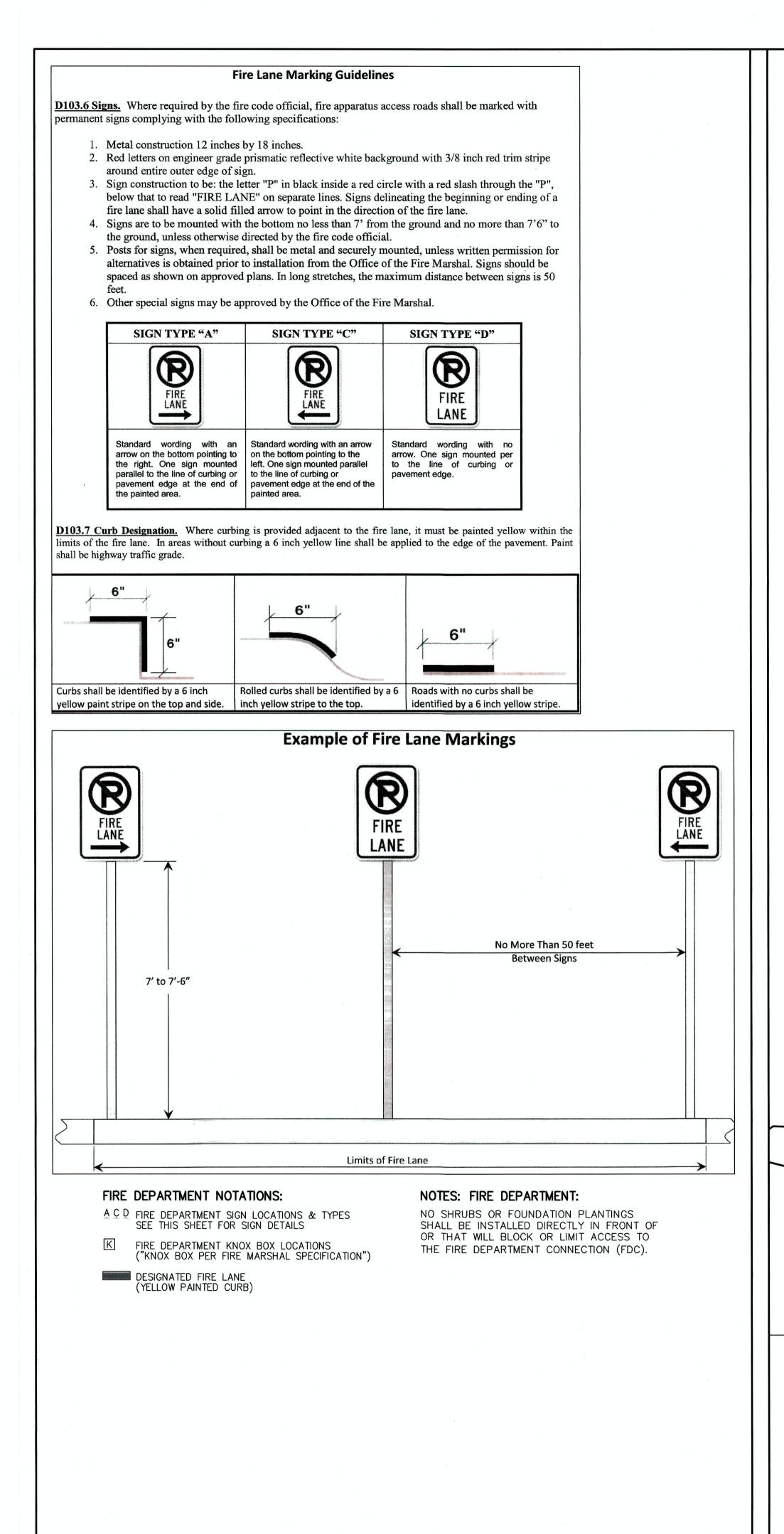
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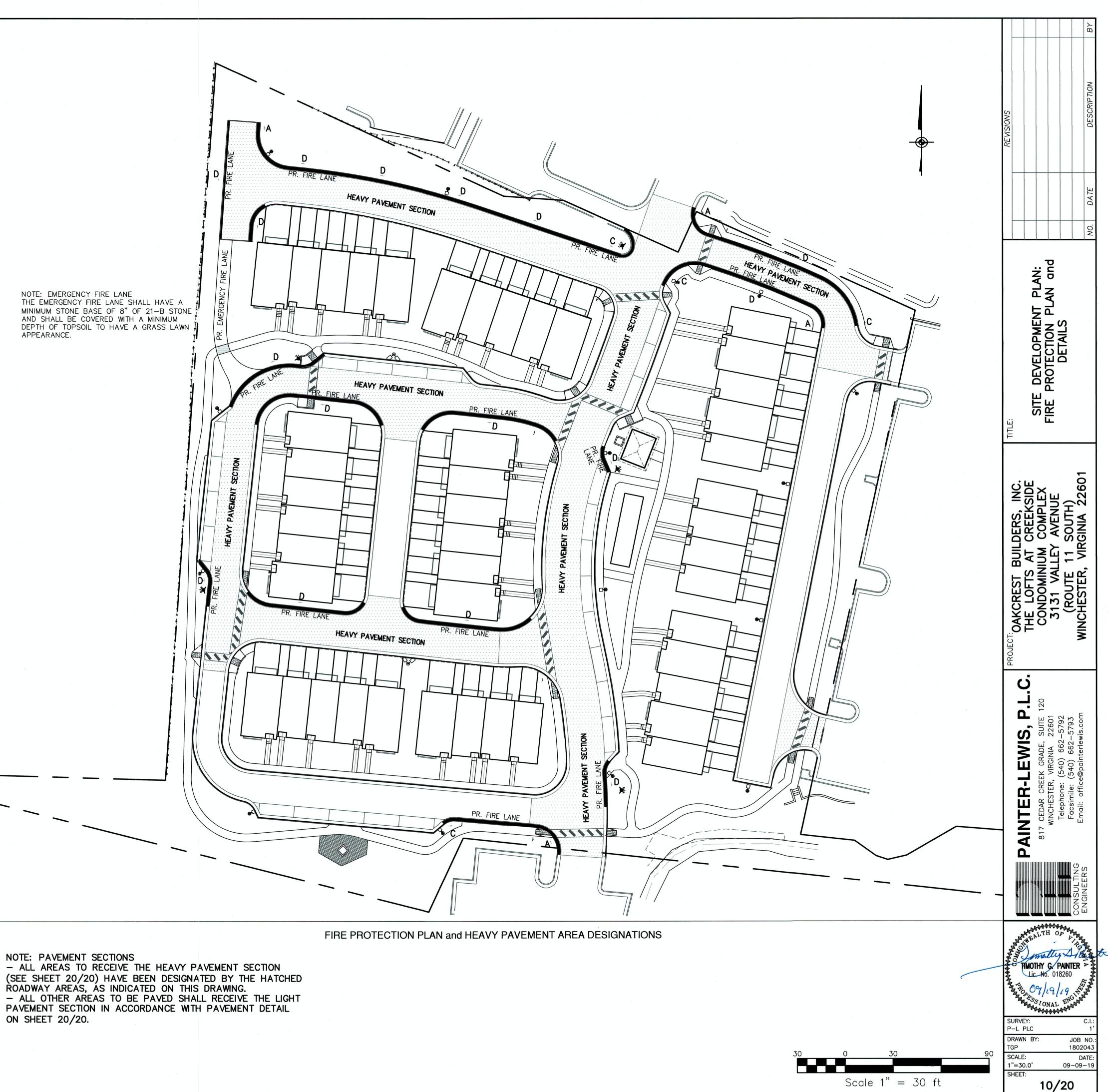
TCP

SCALE:

SHEET:

1"=30.0'



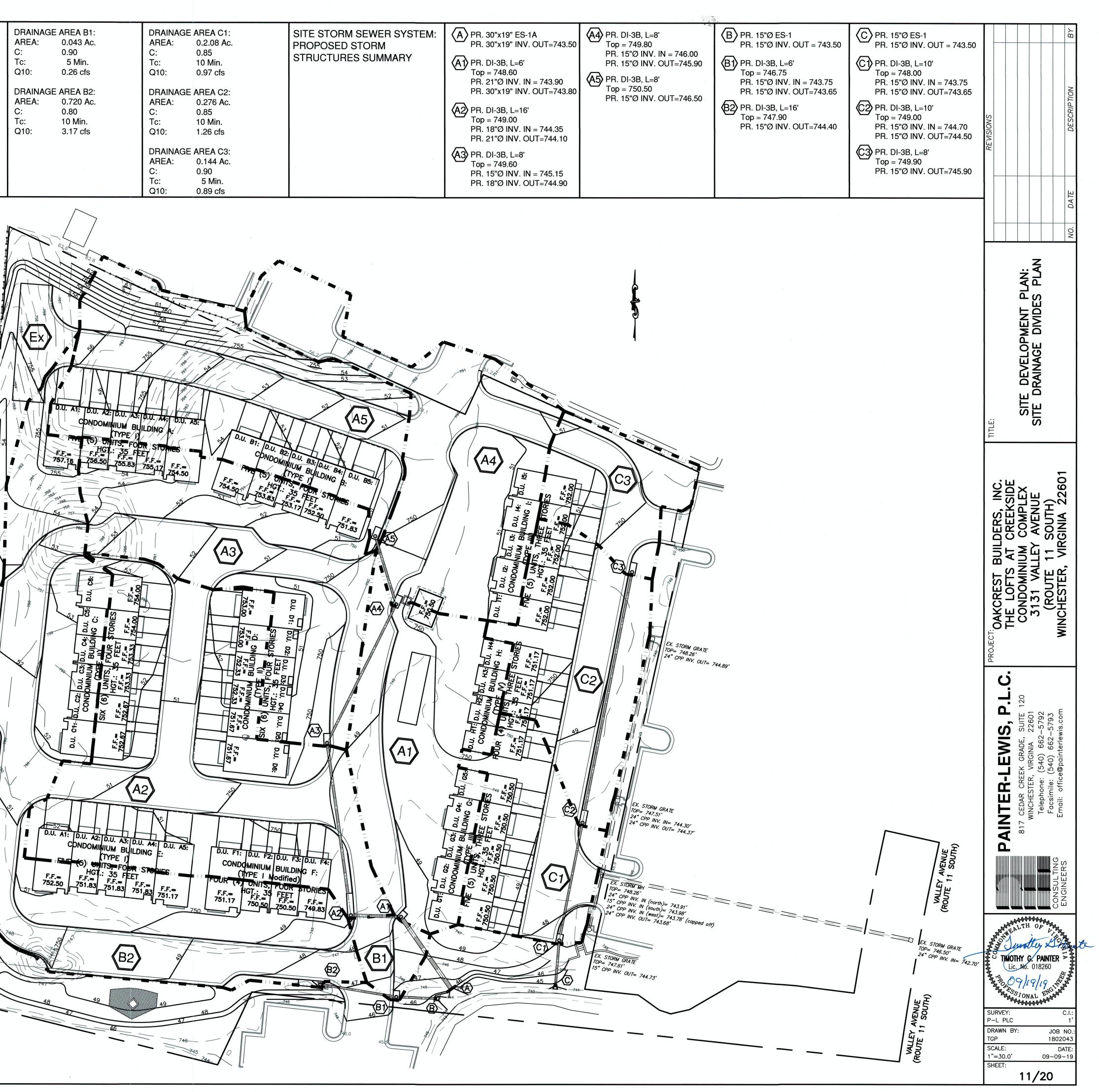


- ALL AREAS TO RECEIVE THE HEAVY PAVEMENT SECTION - ALL OTHER AREAS TO BE PAVED SHALL RECEIVE THE LIGHT PAVEMENT SECTION IN ACCORDANCE WITH PAVEMENT DETAIL ON SHEET 20/20.

SITE DRAINAGE AF	REAS	DRAINAGE AREA - SITE:	DRAINAGE	AREA A1:	DRAINAG	E AREA A4:	
TABULATION:		AREA: 4.4449 Ac. C: 0.57	AREA: C:	0.360 Ac. 0.75	AREA: C:	0.418 Ac. 0.80	
		Tc: 15 Min. Q10: 11.65 cfs	Tc: Q10:	10 Min. 1.49 cfs	Tc: Q10:	10 Min. 1.84 cfs	
DRAINAGE ARI		(PRE-DEVELOPMENT)	DRAINAGE			E AREA A5:	
		DRAINAGE AREA - SITE:	AREA:	0.652 Ac.	AREA:	0.467 Ac.	
		AREA: 4.4449 Ac. C: 0.61	C: Tc:	0.85 10 Min.	C: Tc:	0.80 10 Min.	
		Tc: 15 Min. Q10: 12.47 cfs	Q10:	3.05 cfs	Q10:	2.05 cfs	
		(POST-DEVELOPMENT)	DRAINAGE AREA:	E AREA A3: 0.437 Ac.			
			C: Tc:	0.80 10 Min.			
			Q10:	1.92 cfs			
UTILITY LEGEND							
	EX. WATE						
	PR. WAT						
		SEWER LINE					3
	SANITAR	Y SEWER LINE	л., <sub>с</sub> .				ļ
	GAS LINE	<u> </u>					1 †
	UNDERGR	ROUND ELECTRIC LINE					Ĭ
	OVERHEA	D ELECTRIC AND TELEPHONE LINE					Ĭ
L	<u> </u>						Ť/ ħ/
NOTE: STORM WA		NAGEMENT					i /
REQUIREM							*/
		STRUCTED ON A SITE THAT O BE DEVELOPED AS A					
		X. IT IS BEING CONSIDERED A SE OF THE EXISTING SITE					¥/
IMPROVEMENTS THAT	ARE CUF	RENTLY IN PLACE AND THE					* 5
OVER THE YEARS IN T	HIS AREA						*
		ACENT TO THE HOGE RUN S 1.7 SQUARE MILES (1088					Ť.
	Y AREA. T	HIS PARCEL IS 4.4449 ACRES					Ĭ
- STORM WATER MANA	GEMENT	IS NOT REQUIRED BECAUSE					*    *
CONDITION BY ONLY 0	.82 CFS (S	XCEEDS THE PRE-DEVELOPED SEE ABOVE) FOR THE 10 YEAR					*     / <sup>-</sup>
		' LESS THAN THE TRIBUTARY BUTARY AREA OF THIS SITE IS					
LESS THAN 1.0% OF TH	IE TOTAL	CONTRIBUTING WATERSHED, MANAGEMENT IS REQUIRED.					
- AN ADEQUATE CHAN	NEL CONS	SISTING OF A PROPOSED					
BEEN DESIGNED TO CO	ONTROL 1	D THROUGH THIS SITE, HAS THE 2 YR AND 10 YR DESIGN					
		SHALL CONTROL AND CONVEY					
LOCATED AT THE SOUTHOGE RUN STREAM CH		IS PARCEL WHICH IS THE					
- THESE FACTORS AND	THIS CR	ITERIA DO NOT REQUIRE THE TER MANAGEMENT SYSTEM;					
AND THEREFORE, NO I		ES ARE PROPOSED FOR THIS					<b>]   </b>
		REQUIREMENTS SHALL BE					
		OF THE REQUIRED NUMBER OF RTIFIED NUTRIENT BANK.					
						1	
							745
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			*	x x x x x	- <u>x x x</u> A		
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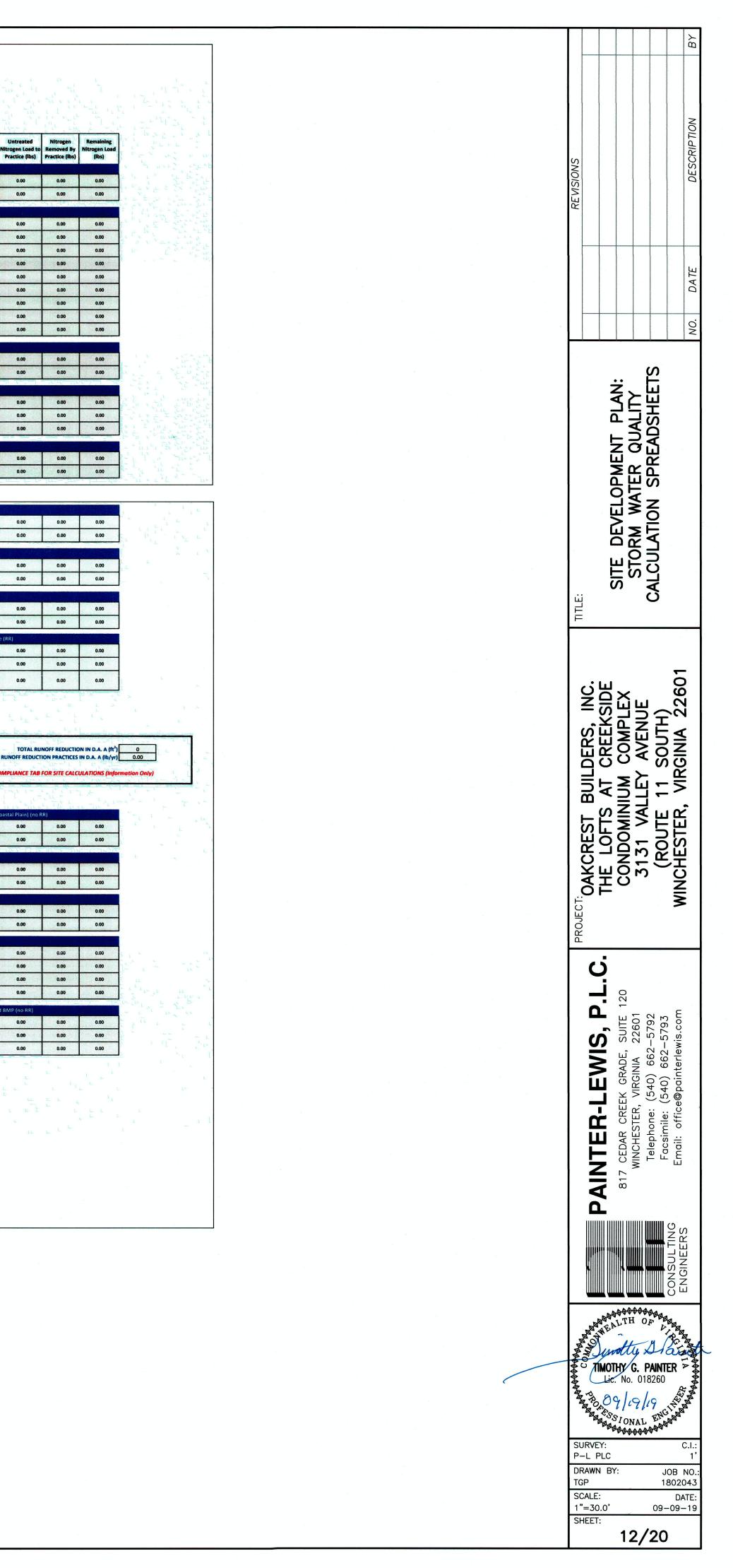
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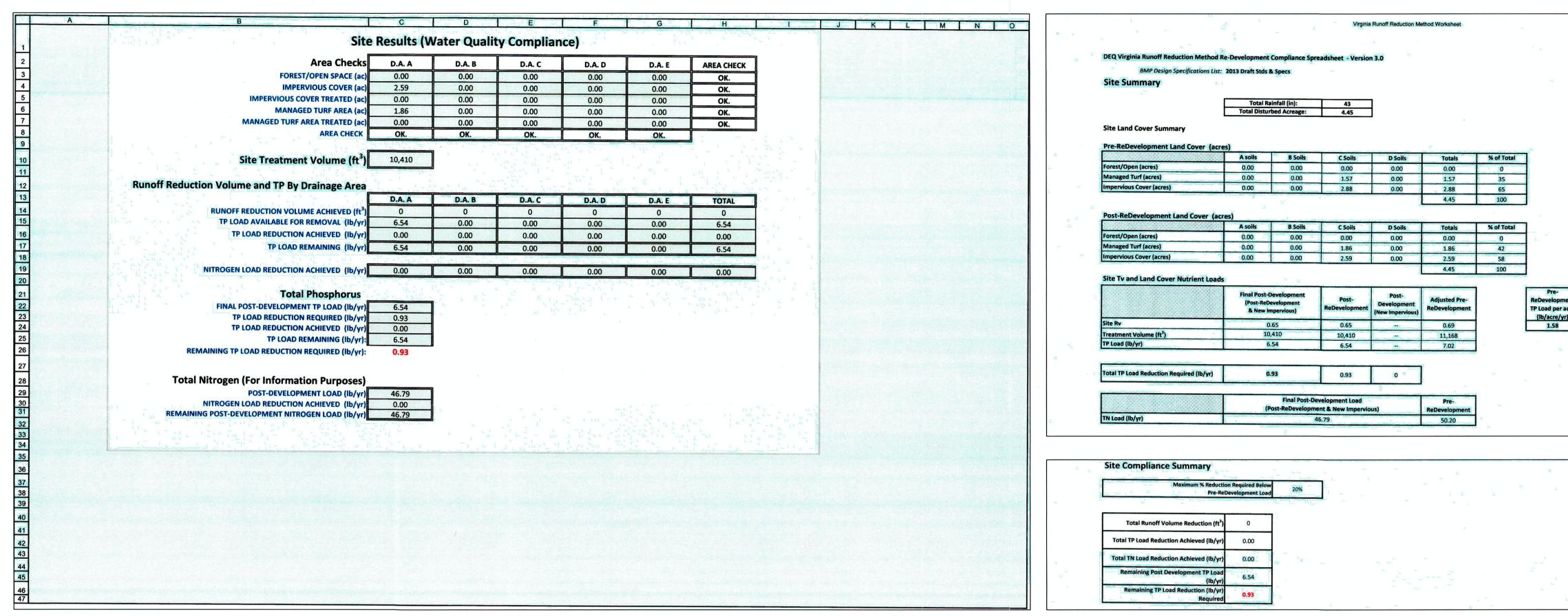
Scale 1" = 30 ft

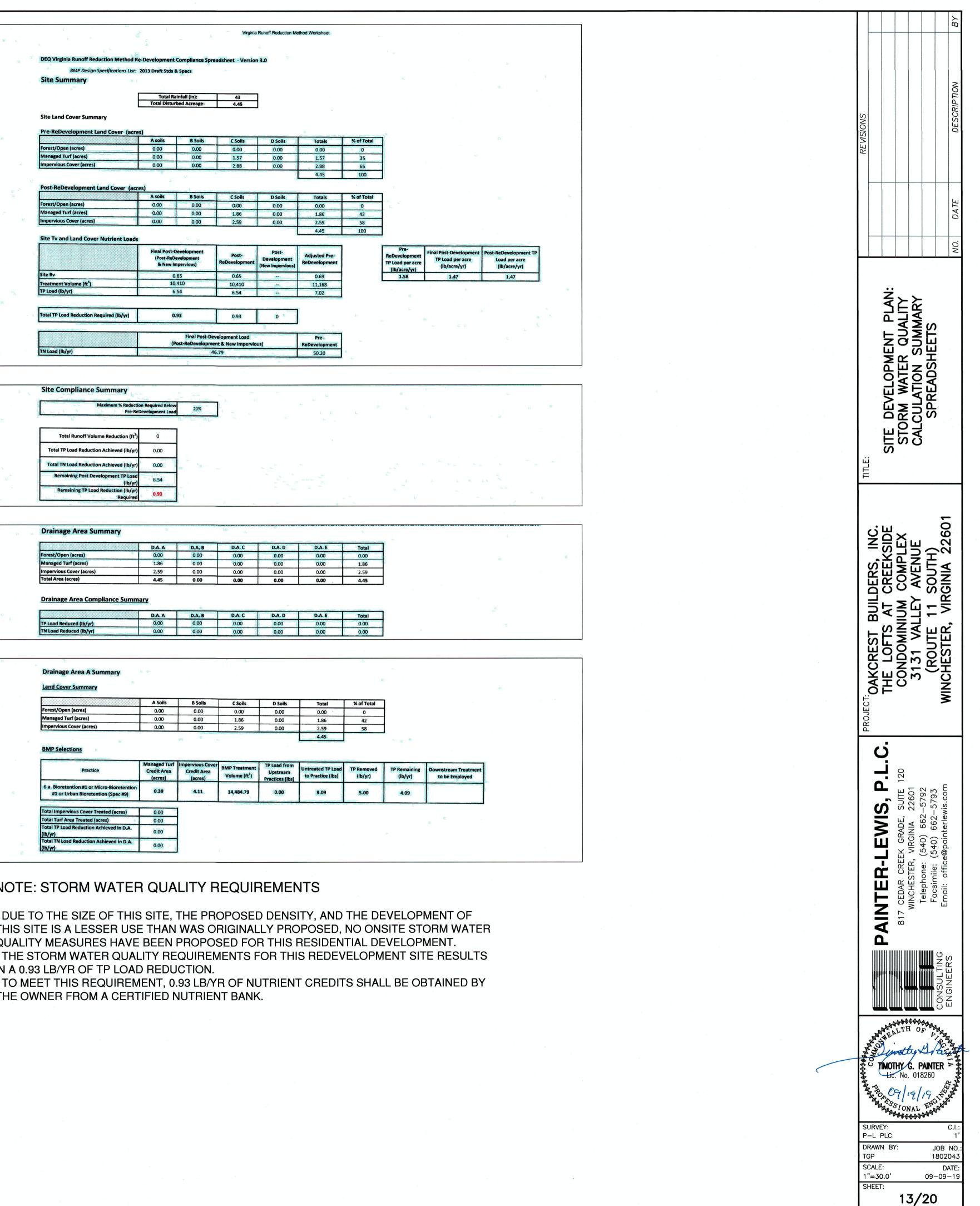


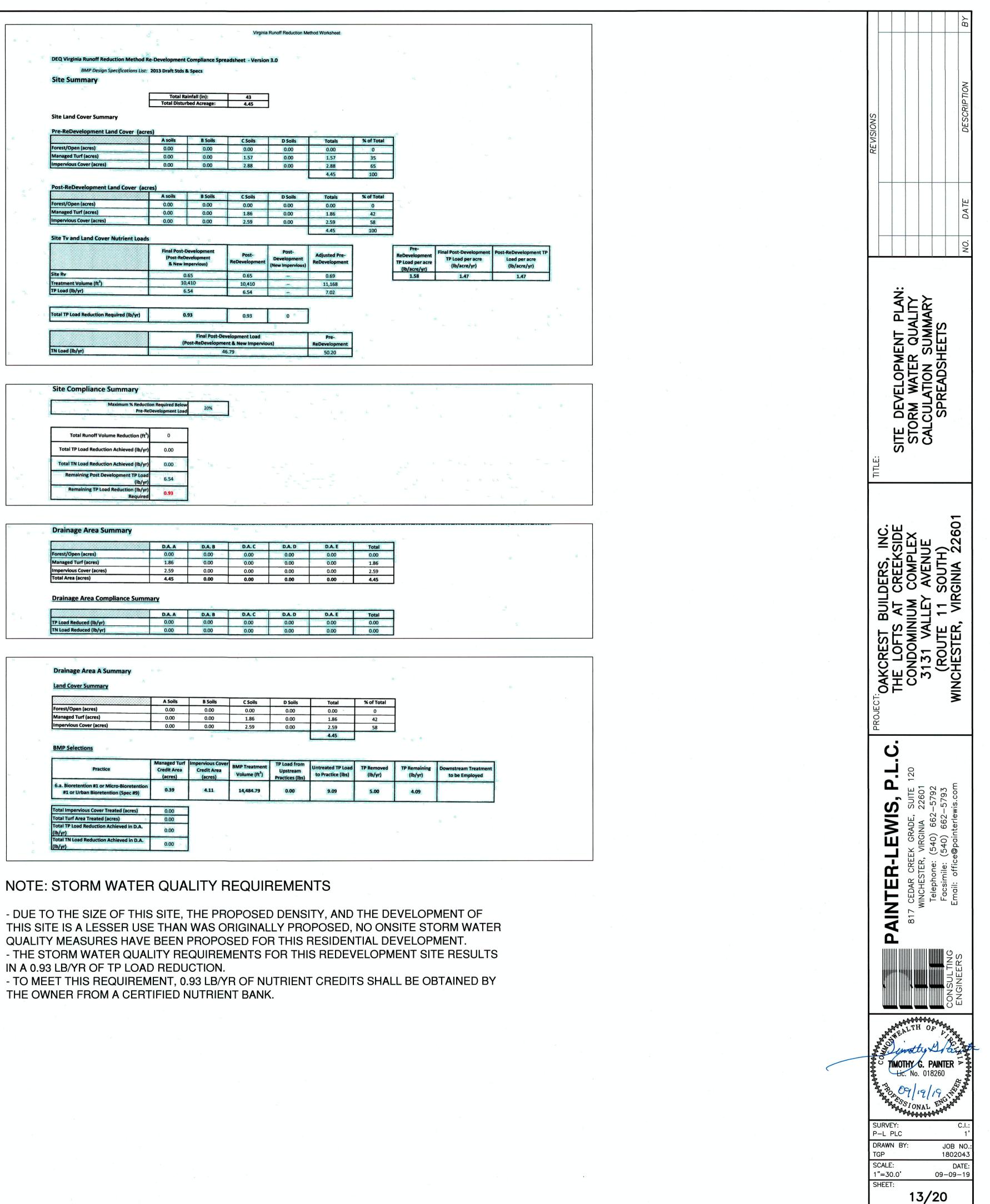
0 2	011 BMP Standards and S							data input cells		adenders of Alfred Sectors (Sectors)
21 17	Project Name: Date:			rs: The Lofts at Cr 9-Sep-19			CLEAR ALL	constant values		
	Information		Linear Dev	elopment Project	? No			calculation cells final results		
Post	-Development Project	t (Treatmer	nt Volume a	and Loads)						
					urbed Area (acres) →	4,45		Check:		
					n reduction required:	20%		Linear project?	13 Draft Stds & Specs No	
					vious cover (acres) is: action for Site (lb/yr):	0 0.93	Land cover areas ente Total disturbed			
Pre-R	Development Land Cover (acr	The second se			•					
	Open Space (acres) – undisturbed, d forest/open space or reforested land	A Soils	B Soils	C Soils	D Soils	Totals 0.00				
Manage	d Turf (acres) disturbed, graded for other turf to be mowed/managed			1.57		1.57				
Impervi	ous Cover (acres)			2.88		2.88				
Port	Development Land Cover (acres	-)				4.45				
	Open Space (acres) - undisturbed,	A Soils	B Soils	C Soils	D Soils	Totals				
protecte Manage	d forest/open space or reforested land <b>d Turf (acres)</b> - disturbed, graded for			0.00		0.00				
yards o	other turf to be mowed/managed ous Cover (acres)			1.86 2.59		1.86 2.59				
	Area Check	OK.	OK.	2.39 OK.	OK.	4.45				
Const	ants	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Runoff Coefficie	nts (Rv)					
Annual Target F	Rainfall (inches) ainfall Event (inches)	43 1.00		Forest/Open Space	A Soils 0.02	B Soils 0.03	C Soils D Soils 0.04 0.05			
Total Ni	osphorus (TP) EMC (mg/L) trogen (TN) EMC (mg/L) P Load (lb/acre/yr)	0.26 1.86 0.41		Managed Turf Impervious Cover	0.15 0.95	0.20 0.95	0.22 0.25 0.95 0.95			
Pj (uniti	ess correction factor)	0.90								
L/	AND COVER SUMMARY F		LOPMENT				ID COVER SUMMARY			
	Land Cover Sumi Pre-ReDevelopment	mary-Pre Listed	Adjusted <sup>1</sup>		Land Cover Summe Post ReDev. & Ne		Land Cover Sum Post-ReDevel		Land Cover Summ Post-Development Net	
	Forest/Open Space Cover (acres)	0.00	0.00		Forest/Open Space Cover (acres)	0.00	Forest/Open Space Cover (acres)	0.00		
	Weighted Rv(forest) % Forest	0.00 0%	0.00		Weighted Rv(forest) % Forest	0.00	Weighted Rv(forest) % Forest	0.00		
	Managed Turf Cover (acres)	1.57	1.57		Managed Turf Cover (acres)	1.86	Managed Turf Cover (acres)	1.86		
	Weighted Rv(turf) % Managed Turf	0.22	0.22		Weighted Rv (turf)	0.22	Weighted Rv (turf)	0.22		
	Impervious Cover (acres)	2.88	2.88		% Managed Turf Impervious Cover (acres)	42%	% Managed Turf ReDev. Impervious	42%	New Impervious Cover	0.00
	Rv(impervious)	0.95	0.95		Rv(impervious)	0.95	Cover (acres) Rv(impervious)	0.95	(acres) Rv(impervious)	-
	% Impervious	65%	65%		% Impervious	58%	% Impervious Total ReDev. Site Area	58%		
	Total Site Area (acres) Site Rv	4.45 0.69	0.69		Final Site Area (acres) Final Post Dev Site Rv	4.45	(acres) ReDev Site Rv	4.45		
	Treatment Volume an	d Nutrient Lo	ad				Treatment Volume and			0000000000000
Pre	ReDevelopment Treatment Volume	0.2564			Final Post-Development		Post-ReDevelopment		Post-Development	
	(acre-ft)	0.2304	0.2564		Treatment Volume (acre-ft)	0.2390	Treatment Volume (acre-ft)	0.2390	Treatment Volume (acre-ft)	
Pre	ReDevelopment Treatment Volume				Final Post-Development		Post-ReDevelopment		Post-Development	
	(cubic feet)	11,168	11,168		Treatment Volume (cubic feet)	10,410	Treatment Volume (cubic feet)	10,410	Treatment Volume (cubic feet)	-
	Pre-ReDevelopment TP Load				Final Post-		Post-ReDevelopment		Post-Development TP	
	(ib/yr)	7.02	7.02		Development TP Load (lb/yr)	6.54	Load (TP) (lb/yr)*	6.54	Load (Ib/yr)	-
	re-ReDevelopment TP Load per acre (lb/acre/yr)	1.58	1,58		Final Post-Development TP Load per acre ( <b>ib/acre/yr)</b>	1.47	Post-ReDevelopment TP Load per acre (Ib/acre/yr)	1.47		
	Baseline TP Load (lb/yr)						Max. Reduction Required			
	Ibs/acre/yr applied to pre-redevelopmer pervious land proposed for new impervi		1.82				(Below Pre- ReDevelopment Load)	20%		
1Adjust	ed Land Cover Summary:			r.			TP Load Reduction		TO Log 1 De 1	
Pre ReD	evelopment land cover minus pervious la d turf) acreage proposed for new imperv		en space or				Required for Redeveloped Area	0.93	TP Load Reduction Required for New Impervious Area (Ib/yr)	0
Adjuster of new	d total acreage is consistent with Post-Rei mpervious cover).	Development acrea	ge (minus acreage				(lb/yr)		(IV) YI)	
Column	I shows load reduction requriement for n	ew impervious cove	r (based on new							
develop	ment load limit, 0.41 lbs/acre/year).									
				Post-De	evelopment Requ	irement for Site	e Area			
					d Reduction Required		0.93			
				Lines	IT Project 19 Loss Rodu	cilon Required (Rifyr).				
				N	itrogen Loads (Info	rmational Purpos	es Only)			
		Pre-ReDevelopme	ent TN Load (lb/yr)	50.20		(Po	Final Post-Development TN Load st-ReDevelopment & New Impervious)	46.79		
			na 128 i Malio de el de y Carace (aconto de				(ib/yr)	en die en		and a construction of the state
-										

	A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv	1		CLEAR BMP	AREAS						
Forest/Open Space (acres) Managed Turf (acres)			0.00 1.86		0.00 1.86	0.00 0.22	$\begin{array}{cccccccccccccccccccccccccccccccccccc$									t i
			<b>2.59</b>		2.59 4.45	0.95			Curr Warren -	vailable for Remov nent Treatment Vol	THE FORESTER	6.54 10,410				
Practice	Runoff Reduction	s (RR = Runc Managed Turf Credit Area		r) Volume from Upstream	Runoff	Remaining Runoff Volume	Total BMP Treatment	Phosphorus Removal	Phosphorus Load from Upstream	Untreated Phosphorus Load	Phosphorus Removed By	Remaining Phosphorus Load	-Select from dropdo Downstream Practic		Nitrogen Removal	Nitrogen from Ups
egetated Roof (RR)	Credit (%)	(acres)	Area (acres)	Practice (ft <sup>3</sup> )	Reduction (ft <sup>3</sup> )	(ft <sup>3</sup> )	Volume (ft <sup>3</sup> )	Efficiency (%)	Practices (ib)	to Practice (Ib)	Practice (Ib)	(ib)	Employed		Efficiency (%)	Practices
1.a. Vegetated Roof #1 (Spec #5) 1.b. Vegetated Roof #2 (Spec #5)	45 60				0	0	0	0		0.00	0.00	0.00				
poftop Disconnection (RR) 2.a. Simple Disconnection to A/B Soils					TTIM			5 <sup>59</sup>			्रम् <del>ज</del> हरूष <u>ः</u>				2. Rooftop Dis	
(Spec #1) 2.b. Simple Disconnection to C/D Soils (Spec #1)	50 25			0	0	0	0	0	0.00	0.00	0.00	0.00			0	0.0
2.c. To Soil Amended Filter Path as per pecifications (existing C/D soils) (Spec #4) 2.d. To Dry Well or French Drain #1, Micro-Infilration #1 (Spec #8)	50 50			0	0	0	0	0 25	0.00	0.00	0.00	0.00			0 15	0.0
2.e. To Dry Well or French Drain #2, Micro-Infiltration #2 (Spec #8) 2.f. To Rain Garden #1, Micro-Bioretention #1 (Spec #9)	90 40			0	0	0	0	25 25	0.00	0.00	0.00	0.00			15 40	0.0
2.g. To Rain Garden #2, Micro-Bioretention #2 (Spec #9) 2.h. To Rainwater Harvesting (Spec #6)	80			0	0	0	0	50	0.00	0.00	0.00	0.00			60 0	0.0
2.i. To Stormwater Planter, Jrban Bioretention (Spec #9, Appendix A)	40			0	0	0	0	25	0.00	0.00	0.00	0.00			40	0.0
ermeable Pavement (RR) 3.a. Permeable Pavement #1 (Spec #7)	45			0	0	0	0	25	0.00	0.00	0.00	0,00			3. Permeable	Pavement
3.b. Permeable Pavement #2 (Spec #7)	75				0	0	0	25		0.00	0.00	0.00			25	
rass Channel (RR) 4.a. Grass Channel A/B Soils (Spec #3)	20			0	0	0	0	15	0.00	0.00	0.00	0.00			4. Grass Chan 20	0.0
4.b. Grass Channel C/D Soils (Spec #3) Grass Channel with Compost Amended Soils as per specs (see Spec #4)	10 <sup>5</sup> 20			0	0	0	0	15 15	0.00	0.00	0.00	0.00			20 20	0.0
ry Swaie (RR) 5.a. Dry Swale #1 (Spec #10)	40			0	Q	0	0	20	0.00	0.00	0.00	0.00			5. Dry Swale ( 25	RR)
5.b. Dry Swale #2 (Spec #10)	60		T T	0	0	0	0	40	0.00	0.00	0.00 44	0.00			35	0.0
pretention (RR)										DA	4				6. Bioretentio	n (RR)
ioretention #1 or Micro-Bioretention #1 or Urban Bioretention (Spec #9) Bioretention #2 or Micro-Bioretention #2	40			0	0	0	0	25 50	0.00	0.00	0.00	0.00			40	0.0
(Spec #9)															7: Infiltration	
7.a. Infiltration #1 (Spec #8) 7.b. Infiltration #2 (Spec #8)	50 90			0	0	0	0	25 25	0.00	0.00 0.00	0.00	0.00			15 15	0.0
ended Detention Pond (RR) 8.a. ED #1 (Spec #15)	0			0	0	0	O	15	0.00	0.00	0.00	0.00			8. Extended D	etention Pc
8.8. ED #2 (Spec #15)	15			0	0	0	0	15	0.00	0.00	0.00	0.00			10	0.0
etflow to Filter/Open Space (RR) heetflow to Conservation Area, A/B Soils (Spec #2)	75			0	0	0	0	0	0.00	0.00	0.00	0.00			9. Sheetflow t	o Filter/Op 0.0
heetflow to Conservation Area, C/D Soils (Spec #2) eetflow to Vegetated Filter Strip, A Soils or Compost Amended B/C/D Soils	50 50			0	0	0	0	0	0.00	0.00	0.00	0.00		L	0	0.0
(Spec #2 & #4)						E Ense i	S celaca,			it.						
		TOTAL MAI	MPERVIOUS COVE NAGED TURF ARE UNOFF REDUCTION	EA TREATED (ac)	0.00	AREA CHECK			vil L L L L L L L L L L L L L L L L L L L		L L,				κ Γ.	
			T L PHOSPHORUS RE JS REMAINING AF	EMOVED WITH P	UNOFF REDUCT		IN D.A. A (Ib/yr)	6.54 0.00 6.54		L	, L & ` 1		¢ L			
			QUALITY COMP								- 1	C .				ATER QUA
	1 States -						s	72. 77. 77. 71	-7-2 - 12 - 1 - 1	Sur Let						V N
							 			e L' · · · · · · · · · · · · · · · · · ·					X 22.4 4	LL L
Jet Swale (no RR) 10.a. Wet Swale #1 (Spec #11)				- L L - L L L <sup>L</sup> - X L - L - L - X - L	تر ادی تر ادی تر ایر م	ے رٹے زنارت راک ہے لیے ال رے ہادی ال اے		20 20 20	0.00	د ل <sup>1</sup> رو بر در از در در 0.00	L L L L L L L L L L L L L L L L L L L				25	
10.a. Wet Swale #1 (Spec #11)					0 0 0 0 0			20 40	C      C	0.00	0.00				35	0.00
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) Itering Practices (no RR) 11.a.Filtering Practice #1 (Spec #12)	0			0	0	0	0	40 60	0.00	0.00	0.00	0.00			- 35 11. Filtering F 30	0.00 0.00 Practices (no 0.00
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) Itering Practices (no RR) 11.a.Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #12)	0			0	0	0	0	<b>40</b>	0.00	0.00	0.00	0.00			- 35 11. Filtering F	0.00 0.00 Practices (no 0.00 0.00
10.a. Wet Swale #1 (Spec #11)         10.b. Wet Swale #2 (Spec #11)         10.c. Wet Swale #2 (Spec #11)         Itering Practices (no RR)         11.a.Filtering Practice #1 (Spec #12)         11.b. Filtering Practice #2 (Spec #12)         Int. Filtering Practice #2 (Spec #12)	0			0	0	0	0	40 60	0.00	0.00	0.00	0.00			35 11. Filtering F 30 45	0.0 0.0 Practices (no 0.0 0.0 0.0 0.0
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) Itering Practices (no RR) 11.a.Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) Instructed Wetland (no RR) .a.Constructed Wetland #1 (Spec #13) .b. Constructed Wetland #2 (Spec #13) et Ponds (no RR)	0			0 0 0 0 0	0 0 0 0	0	0	40 60 65 50 75	0.00	0.00	0.00	0.00			35 11. Filtering F 30 45 12. Constructu 25 55 13. Wet Pond	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
10.a. Wet Swale #1 (Spec #11)         10.b. Wet Swale #2 (Spec #11)         10.b. Wet Swale #2 (Spec #11)         Ittering Practices (no RR)         11.a. Filtering Practice #1 (Spec #12)         11.b. Filtering Practice #2 (Spec #12)         instructed Wetland (no RR)         .a. Constructed Wetland #1 (Spec #13)         .b. Constructed Wetland #2 (Spec #13)         et Ponds (no RR)         13.a. Wet Pond #1 (Spec #14)         . Wet Pond #1 (Coastal Plain) (Spec #14)				0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 60 65 50 75 50 45	0.00 0.00 0.00 0.00 0.00 0.00	0.00	0.00	0.00			35 11. Filtering P 30 45 12. Constructo 25 55 13. Wet Pond 30 20	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) 11.b. Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 2.a.Constructed Wetland #1 (Spec #13) 2.b. Constructed Wetland #1 (Spec #13) 2.b. Constructed Wetland #2 (Spec #13) 2.b. Constructed Wetland #2 (Spec #13) 2.b. Constructed Wetland #2 (Spec #14) 1.3.a. Wet Pond #1 (Coestal Plain) (Spec #14) 1.3.c. Wet Pond #2 (Spec #14)				0 0 0 0 0	0 0 0 0	0	0	40 60 65 50 75 50	0.00	0.00	0.00	0.00			35 11. Filtering F 30 45 12. Constructo 25 55 13. Wet Pond 30	0.0           vactices (no           0.0
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) 10.b. Wet Swale #2 (Spec #11) 11.a. Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #13) 12.c. Constructed Wetland #1 (Spec #13) 13.c. Wet Pond #1 (Spec #14) 13.c. Wet Pond #1 (Spec #14) 13.c. Wet Pond #2 (Coastal Plain) (Spec #14) 13.c. Manufactured Treatment Devices (no				0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0	40 60 65 50 75 50 45 75	0.00 0.00 0.00 0.00 0.00 0.00	0.00	0.00	0.00			35           11. Filtering F           30           45           12. Constructo           25           55           13. Wet Pond           30           20           40	0.00 0.00
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) 11.a.Filtering Practice #1 (Spec #12) 11.a.Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 2.a.Constructed Wetland #1 (Spec #13) 2.a.Constructed Wetland #1 (Spec #13) 2.b. Constructed Wetland #2 (Spec #14) 1.a. Wet Pond #1 (Coastal Plain) (Spec #14) 1.3.c. Wet Pond #2 (Coastal Plain) (Spec #14) 1.3.c. Wet Pond #2 (Coastal Plain) (Spec #14) 1.4. Wet Pond #2 (Coastal Plain) (Spec #14) 1.4. Menufactured Treatment Devices (no 4.a. Manufactured Treatment Devices Filtering	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 60 65 50 75 50 45 75 65 65 20 50	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			35 11. Filtering F 30 45 12. Constructo 25 55 13. Wet Pond 30 20 40 30	0.000           vactices (no           0.000
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) 11.b. Filtering Practice #1 (Spec #12) 11.a.Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #13) 12.a. Constructed Wetland #1 (Spec #13) 13.a. Wet Pond #1 (Spec #14) 13.a. Wet Pond #1 (Coastal Plain) (Spec #14) 13.c. Wet Pond #2 (Coastal Plain) (Spec #14) 13.c. Wet Pond #2 (Coastal Plain) (Spec #14) 13.a. Wet Pond #2 (Coastal Plain) (Spec #14) 14. Manufactured Treatment Devices (no 4.a. Manufactured Treatment Devices Filtering	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 60 65 50 75 50 45 75 65 65	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			35 11. Filtering P 30 45 12. Constructo 25 55 13. Wet Pond 30 20 40 30	0.0           0.0           vactices (no           0.0
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) 11.b. Filtering Practice #1 (Spec #12) 11.a.Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #13) 12.a. Constructed Wetland #1 (Spec #13) 13.a. Wet Pond #1 (Spec #14) 13.a. Wet Pond #1 (Coastal Plain) (Spec #14) 13.c. Wet Pond #2 (Coastal Plain) (Spec #14) 13.c. Wet Pond #2 (Coastal Plain) (Spec #14) 13.a. Wet Pond #2 (Coastal Plain) (Spec #14) 14. Manufactured Treatment Devices (no 4.a. Manufactured Treatment Devices Filtering	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 60 65 50 75 50 45 75 65 65 20 50	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			35 11. Filtering P 30 45 12. Constructo 25 55 13. Wet Pond 30 20 40 30	0.0           0.0           vactices (no           0.0
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) 11.a.Filtering Practice #1 (Spec #12) 11.a.Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 2.a.Constructed Wetland #1 (Spec #13) 2.a.Constructed Wetland #1 (Spec #13) 2.b. Constructed Wetland #2 (Spec #14) 1.a. Wet Pond #1 (Coastal Plain) (Spec #14) 1.3.c. Wet Pond #2 (Coastal Plain) (Spec #14) 1.3.c. Wet Pond #2 (Coastal Plain) (Spec #14) 1.4. Wet Pond #2 (Coastal Plain) (Spec #14) 1.4. Menufactured Treatment Devices (no 4.a. Manufactured Treatment Devices Filtering	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		ANAGED TURF ARE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 60 65 50 75 50 45 75 65 20 50 50 50 50 50 50 50 50 50 50 50 50 50	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			35 11. Filtering P 30 45 12. Constructo 25 55 13. Wet Pond 30 20 40 30	0.00           vactices (no           0.00
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) 11.b. Wet Swale #2 (Spec #11) 11.a.Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 2.a.Constructed Wetland #1 (Spec #13) 2.a.Constructed Wetland #1 (Spec #13) 2.b. Constructed Wetland #2 (Spec #14) 1.3.a. Wet Pond #1 (Coastal Plain) (Spec #14) 1.3.c. Wet Pond #2 (Coastal Plain) (Spec #14) 1.3.c. Wet Pond #2 (Coastal Plain) (Spec #14) 1.3.a. Wet Pond #2 (Spec #14)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL MA	ANAGED TURF ARE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 60 65 50 75 50 45 75 65 20 20 50 20 20 50 20 20 50 20 20 50 20 20 50 20 20 50 20 20 50 20 20 50 20 20 50 20 20 50 20 20 50 20 20 50 20 20 20 50 20 20 50 20 20 50 20 20 20 20 20 20 20 20 20 20 20 20 20	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			35 11. Filtering P 30 45 12. Constructo 25 55 13. Wet Pond 30 20 40 30	0.00           vactices (no           0.00
10.a. Wet Swale #1 (Spec #11) 10.b. Wet Swale #2 (Spec #11) 11.b. Wet Swale #2 (Spec #11) 11.a.Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) 2.a.Constructed Wetland #1 (Spec #13) 2.a.Constructed Wetland #1 (Spec #13) 2.b. Constructed Wetland #2 (Spec #14) 1.3.a. Wet Pond #1 (Coastal Plain) (Spec #14) 1.3.c. Wet Pond #2 (Coastal Plain) (Spec #14) 1.3.c. Wet Pond #2 (Coastal Plain) (Spec #14) 1.3.a. Wet Pond #2 (Spec #14)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL MA TOTAL PHO TOTAL TOTAL PHOS	ANAGED TURF ARE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 60 65 50 75 50 45 75 65 20 20 20 20 20 20 20 20 20 20 20 20 20	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			35 11. Filtering P 30 45 12. Constructo 25 55 13. Wet Pond 30 20 40 30	0.000           vactices (no           0.000
10.b. Wet Swale #2 (Spec #11) Filtering Practices (no RR) 11.a.Filtering Practice #1 (Spec #12) 11.b. Filtering Practice #2 (Spec #12) onstructed Wetland #1 (Spec #13) 2.a.Constructed Wetland #1 (Spec #13) 2.b. Constructed Wetland #2 (Spec #13) 2.b. Constructed Wetland #2 (Spec #13) 2.b. Constructed Wetland #2 (Spec #13) 3.a. Wet Pond #1 (Spec #14) 13.a. Wet Pond #1 (Spec #14) 13.c. Wet Pond #2 (Spec #14) d. Wet Pond #2 (Coastal Plain) (Spec #14) 4. Wet Pond #2 (Coastal Plain) (Spec #14) Manufactured Treatment Devices (no 14.a. Manufactured Treatment Devices	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL MA TOTAL PHO TOTAL TOTAL PHOS	ANAGED TURF ARE TO OSPHORUS REMO L PHOSPHORUS RE TO ISPHORUS REMAIN R QUALITY CO	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 60 65 50 75 50 45 75 65 20 20 20 20 20 20 20 20 20 20 20 20 20	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			35 11. Filtering P 30 45 12. Constructo 25 55 13. Wet Pond 30 20 40 30	0.00 0.00 ed Wetland 0.00 0.00





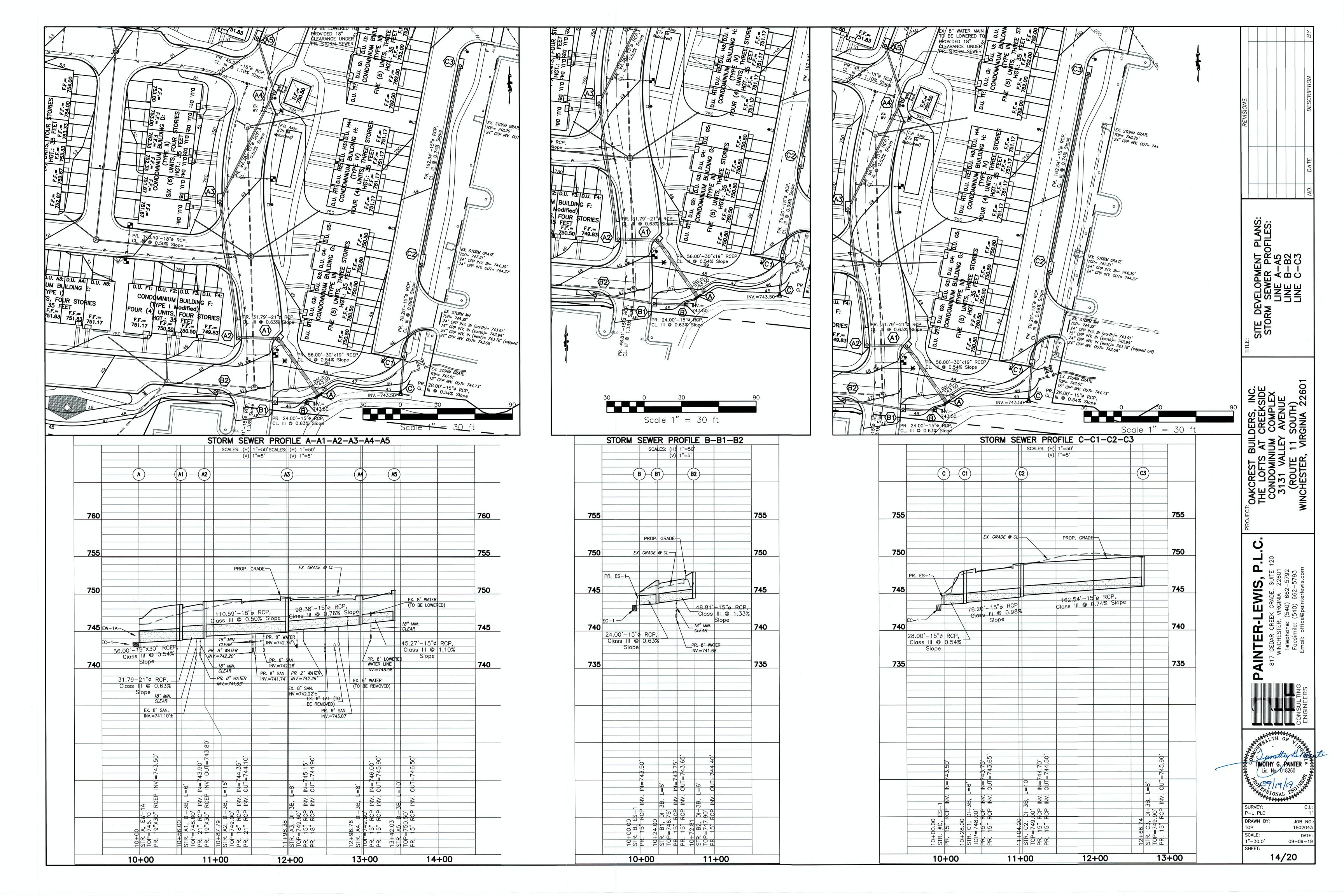


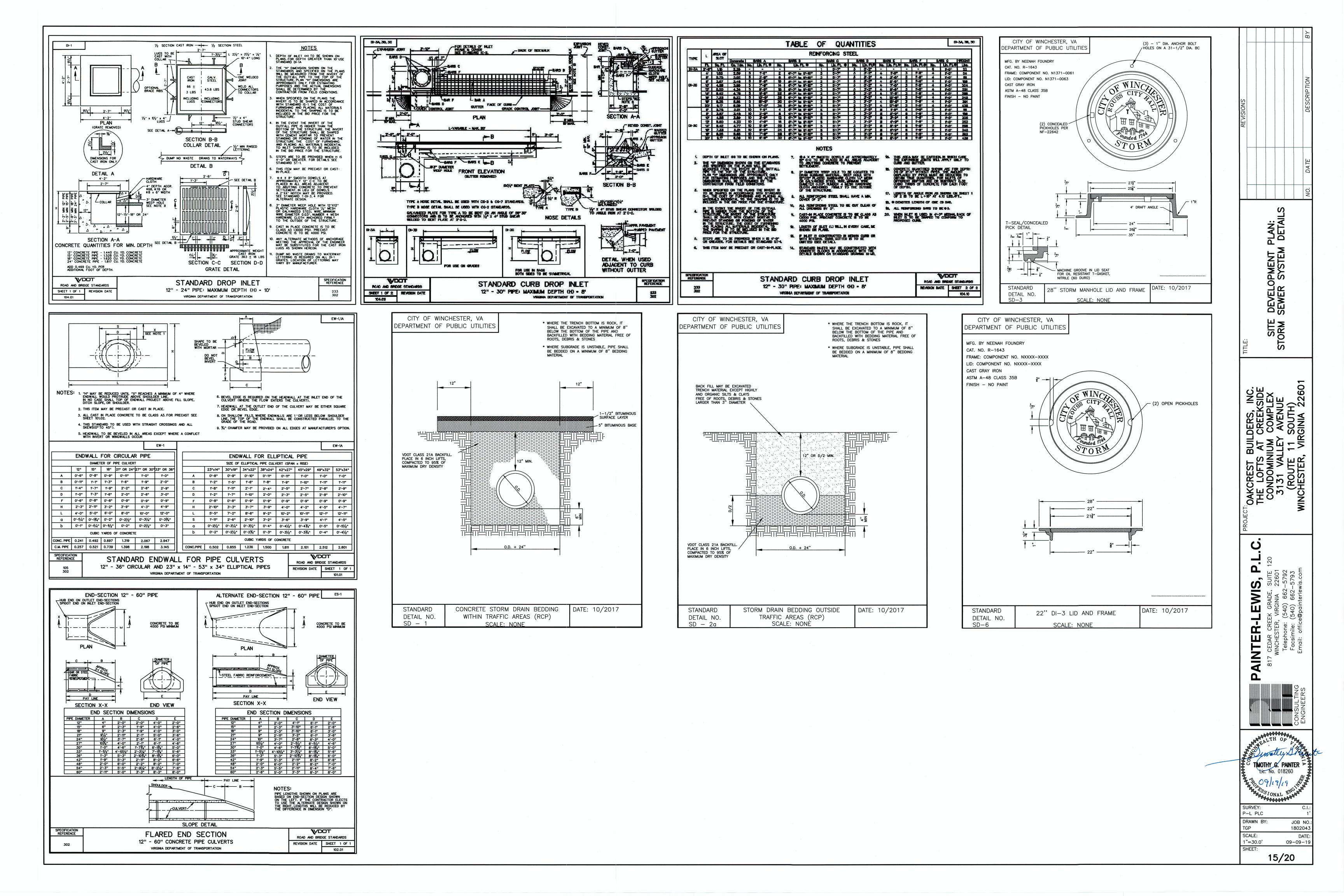


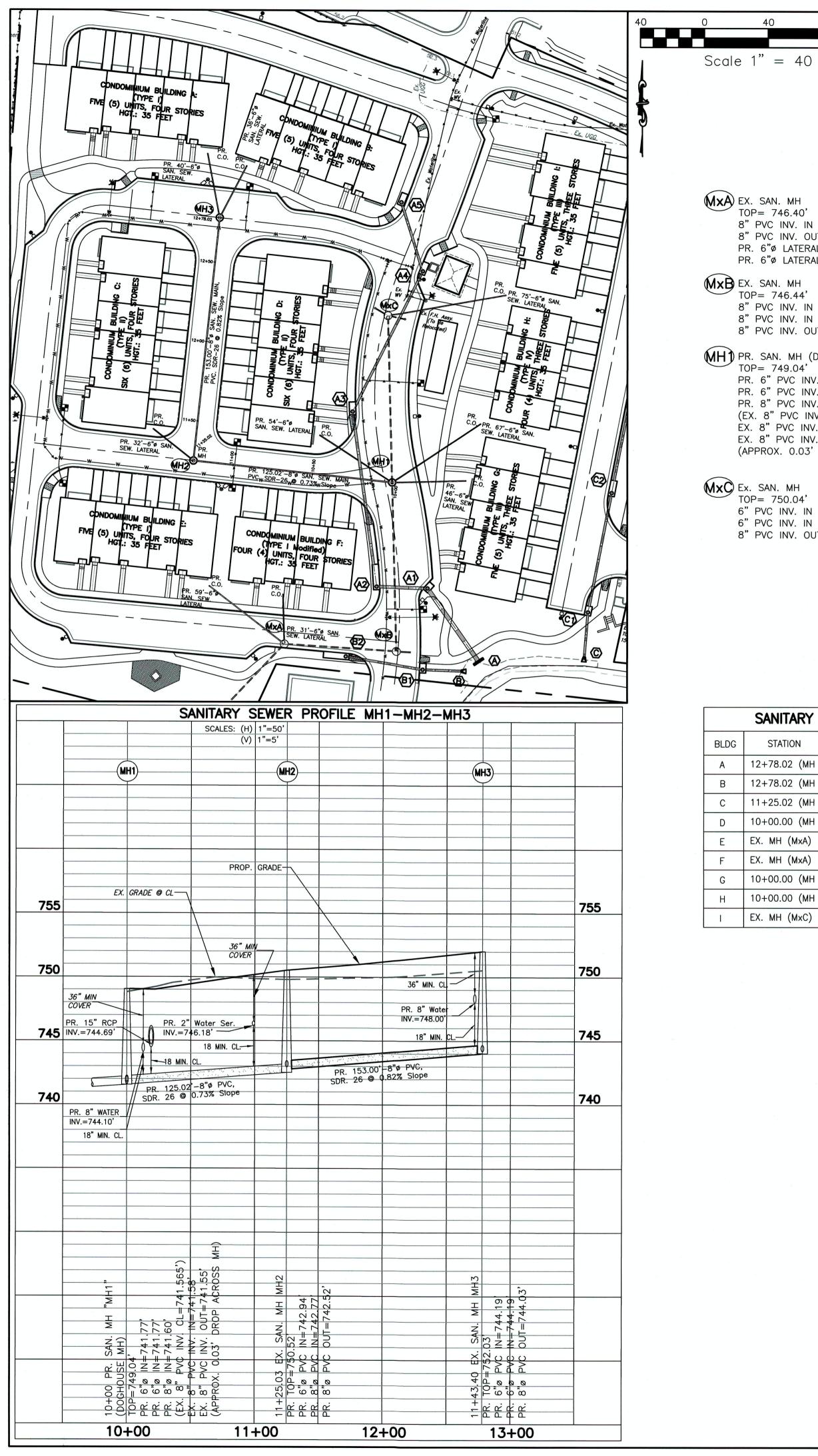
# NOTE: STORM WATER QUALITY REQUIREMENTS

IN A 0.93 LB/YR OF TP LOAD REDUCTION.

THE OWNER FROM A CERTIFIED NUTRIENT BANK.







	4	0					120	)	
Э	1"	=	40	ft	a.	R			

**MXA** EX. SAN. MH TOP= 746.40' 8" PVC INV. IN = 740.46' 8" PVC INV. OUT = 740.41' PR. 6"ø LATERAL IN= 740.63' PR. 6"ø LATERAL IN= 740.63'

> 8" PVC INV. IN (north)= 740.82' 8" PVC INV. IN (west)= 739.88' 8" PVC INV. OUT = 739.87'

(MH) PR. SAN. MH (DOGHOUSE MH) TOP= 749.04' PR. 6" PVC INV. IN = 741.77' PR. 6" PVC INV. IN = 741.77' PR. 8" PVC INV. IN = 741.60' (EX. 8" PVC INV. CL = 741.565')EX. 8" PVC INV. IN = 741.58' EX. 8" PVC INV. OUT= 741.55' (APPROX. 0.03' DROP ACROSS MH)

MXC Ex. SAN. MH TOP= 750.04'

6" PVC INV. IN (east)= 742.74' 6" PVC INV. IN (west)= 742.90' 8" PVC INV. OUT= 742.30'

**MH2** PR. SAN. MH TOP= 750.52' PR. 6" PVC INV. IN = 742.94' PR. 8" PVC INV. IN = 742.77' PR. 8" PVC INV. OUT= 742.52' **MH3** PR. SAN. MH TOP= 752.03'

PR. 6" PVC INV. IN = 744.19' PR. 6" PVC INV. IN = 744.19' PR. 8" PVC INV. OUT= 744.03'

	SANITARY SE	WER L	ATERAL	TABLE	
DG	STATION	SLOPE	LATERAL LENGTH	INVERT @ CONN.	INVERT @ END
	12+78.02 (MH 3)	2.08%	40.00'	744.19	745.02'
	12+78.02 (MH 3)	2.08%	36.00'	744.19	744.94'
	11+25.02 (MH 2)	2.08%	32.00'	742.94	743.61
	10+00.00 (MH 1)	2.08%	54.00'	741.77'	742.90'
	EX. MH (M×A)	2.08%	59.00	740.63'	741.81'
	EX. MH (M×A)	2.08%	31.00'	740.63'	741.28'
	10+00.00 (MH 1)	2.08%	46.00'	741.77'	742.73'
	10+00.00 (MH 1)	2.08%	67.00'	741.77'	743.17'
	EX. MH (M×C)	2.08%	75.00'	742.90'	744.46'

