

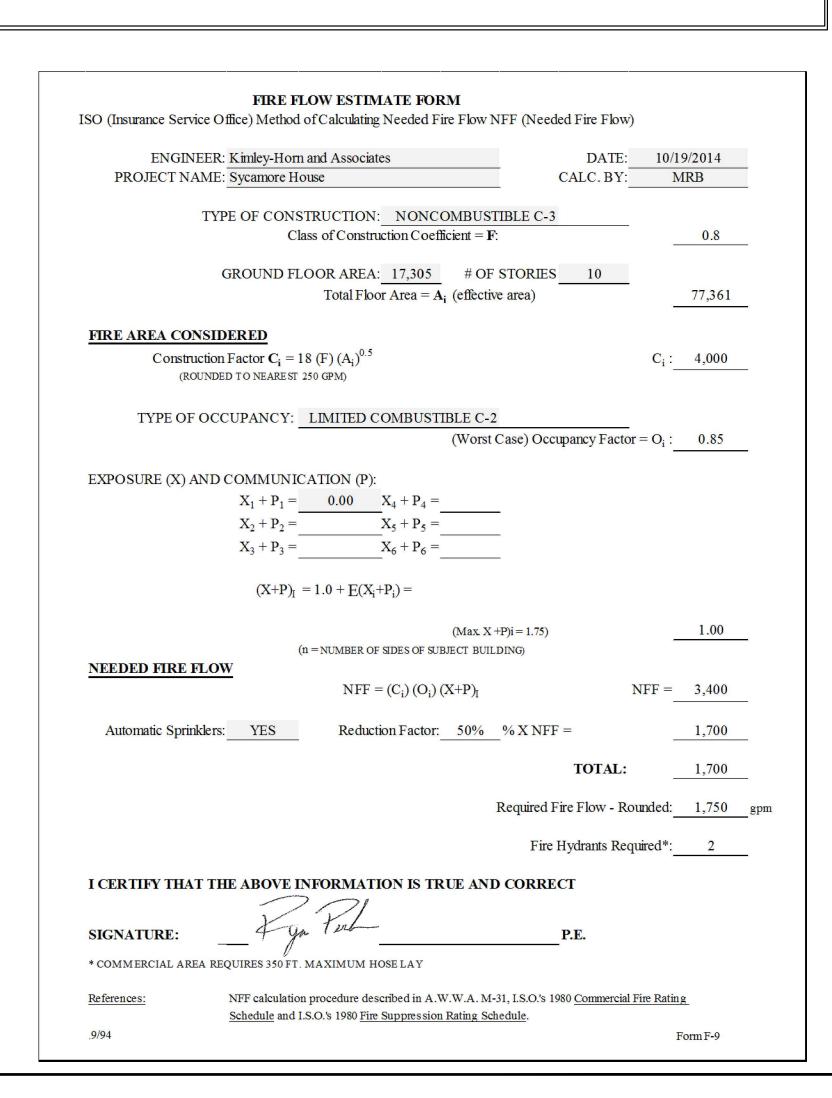


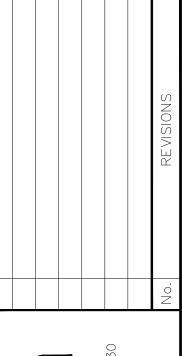


OPEN CUT EXISTING ROAD FOR UTILITY INSTALLATION (REFER TO PAVEMENT REPAIR DETAILS PROVIDED ON CS-501)

### **UTILITY NOTES**

- 1. SEE SHEET CU-501 & CU-502 FOR UTILITY NOTES AND DETAILS.
- 2. DOMESTIC WATER SERVICE PIPE SHALL BE C-900 PVC PIPE ON THE PROPERTY SIDE OF THE METER.
- 3. RPZ BACKFLOW PREVENTERS FOR FIRE SPRINKLER, DOMESTIC, AND IRRIGATION SERVICE LINES SHALL BE PROVIDED WITHIN BUILDING MECHANICAL ROOM.
- 4. CONTRACTOR SHALL CONTACT THE CITY OF CHARLOTTESVILLE AT LEAST 48 HOURS PRIOR TO THE ABANDONMENT OF ANY WATER OR FIRE SERVICE LINES. EXISTING WATER METERS ARE TO BE REMOVED BY THE CITY.
- 5. DOGHOUSE TYPE SANITARY SEWER MANHOLES REQUIRE BENCHES SHAPED PER DETAIL WW2.6 ON SHEET
- 6. CONTRACTOR TO COORDINATE LANE CLOSURES FOR UTILITY INSTALLATION WITH THE CITY OF CHARLOTTESVILLE.
- PRIOR TO SHUTTING DOWN EXISTING 10" WATERLINE IN WEST MAIN STREET, CONTRACTOR SHALL LOCATE EXISTING DUCT BANK AND GAS LINE. CONTRACTOR SHOULD COORDINATE THESE LOCATIONS WITH CITY DPU INSPECTOR TO ENSURE ADEQUATE SEPARATION IS MAINTAINED AT CROSSINGS.
- 8. ALL NON-METALLIC PIPE SHALL BE INSTALLED WITH TRACER WIRE.
- 9. ALL MATERIALS USED ON PUBLIC WATER OR SEWER LINES SHALL BE IN ACCORDANCE WITH THE CITY OF CHARLOTTESVILLE STANDARDS AND DESIGN MANUAL (SDM). IN THE EVENT OF DISCREPANCIES BETWEEN THESE PLANS AND THE SDM, THE SDM SHALL GOVERN.
- 10. ALL DUCTILE WATER PIPE FOR PUBLIC USE SHALL BE CLASS 52.
- 11. COORDINATE WITH PUBLIC UTILITIES (970-3800) A MINIMUM OF 10 DAYS PRIOR TO PLANNED SHUTDOWN OF 10" WATER MAIN. UTILITY OWNER SHALL OPERATE ALL VALVES. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL IMPACTED BUSINESSES AND RESIDENTS.
- 12. THE BUILDING STREET NUMBER TO BE PLAINLY VISIBLE FROM THE STREET FOR EMERGENCY RESPONDERS.
- 13. AN APPROVED KEY BOX SHALL BE MOUNTED TO THE SIDE OF THE FRONT OR MAIN ENTRANCE. THE CHARLOTTESVILLE FIRE DEPARTMENT CARRIES THE KNOX BOX MASTER KEY. A KNOX BOX KEY BOX CAN BE ORDERED BY GOING ON-LINE TO WWW.KNOXBOX.COM. THE KNOX BOX ALLOWS ENTRY TO THE BUILDING WITHOUT DAMAGING THE LOCK AND DOOR SYSTEM.
- 14. AN ELEVATOR KEY BOX WILL BE REQUIRED.
- 15. FIRE LANES WILL BE REQUIRED BEFORE FINAL CERTIFICATE OF OCCUPANCY IS APPROVED BY THE FIRE MARSHAL. CONTRACTOR IS TO COORDINATE REQUIREMENTS WITH FIRE MARSHAL.





RYAN/R PERKINS 5 Lic. No. 046565

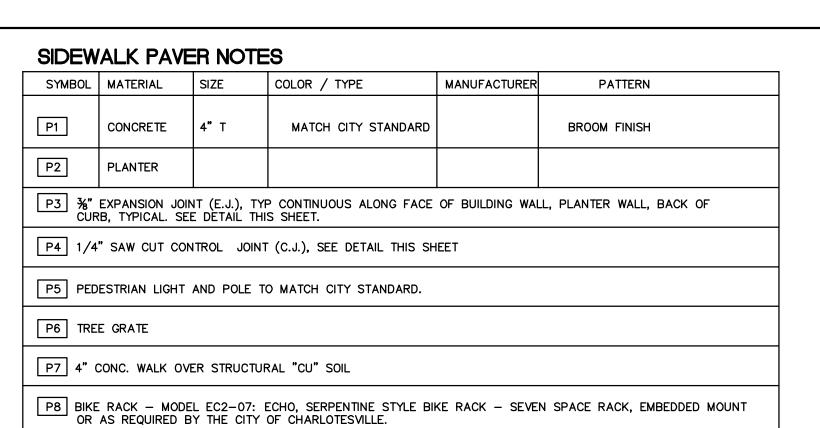
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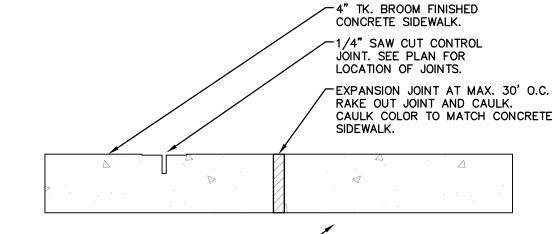
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SHEET NUMBER CU-101



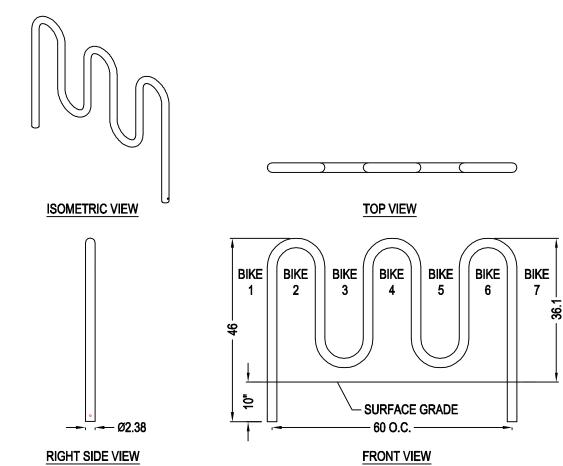
- PAVING MATERIALS SHALL BE SIMILAR IN COLOR TO EXISTING CONCRETE PAVING MATERIALS USED ELSEWHERE FOR STREETSCAPE AND SHALL BE APPROVED BY THE CITY AND OWNER PRIOR TO INSTALLATION.

  2. CONTRACTOR SHALL VERIFY ALL LAYOUT DIMENSIONS, PAVER JOINT PATTERNS AND CUTS PRIOR TO INSTALLATION AND SHALL NOTIFY THE ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES FROM
- SCORE ALL CONCRETE SIDEWALKS AND DRIVEWAYS AS SHOWN. ALL CONTROL JOINTS SHALL BE SAW CUT.
- 4. PROVIDE EXPANSION JOINTS WHERE CONCRETE SIDEWALK ABUTS FACE OF BUILDING, BACK OF CURB AND AS 5. CONTRACTOR SHALL PROVIDE ELECTRICAL HAND HOLES AS REQUIRED AND SHALL COORDINATE HAND HOLE
- REFER TO SHEETS CS-100, FOR TYPE AND DETAIL OF STREET SIGNAGE, PAVEMENT MARKINGS, ETC. ALL EXISTING ITEMS TO BE MOVED AND RELOCATED SHALL BE REINSTALLED TO MEET OR EXCEED THE
- SPECIFICATIONS OF THE CITY OF CHARLOTTESVILLE. 8. ITEMS THAT ARE DAMAGED DURING RELOCATION AND OR STORAGE PROCEDURES SHALL BE REPLACED WITH NEW ITEMS MATCHING THE ORIGINAL MAKE, MODEL, COLOR AND MANUFACTURER OF THE ORIGINAL ITEM BEING
- 9. PAVING WORK WILL BE PLUMB AND TRUE TO LINE AND GRADE AND SHALL BE INSTALLED TO PROPERLY COINCIDE WITH ADJACENT WORK AND ELEVATIONS. THE CUTTING OF THE PAVEMENT SHALL BE CLEAN WITH
- NO APPARENT SPALLS OR BREAKS.
- 10. CONSTRUCTION JOINTS IN THE HYDRAULIC CEMENT CONCRETE SHALL BE FORMED AROUND ALL APPURTENANCES SUCH AS MANHOLES AND WATER METERS THAT EXTEND INTO OR THROUGH THE SIDEWALK. THESE JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALED WITH SILICONE JOINT SEALANT TO MATCH
- 11. THE PATTERN FOR THE PAVING MATERIALS AND JOINTS IS SHOWN ON THE PLANS AND SHALL BE APPROVED BY THE OWNER AND CITY OF CHARLOTTESVILLE PRIOR TO INSTALLATION.



COMPACT GRANULAR SUBGRADE OR STRUCTURAL "CU" SOIL. SEE SHEET CP-501

LOCATIONS WITH ELECTRICAL / LIGHTING ENGINEER.



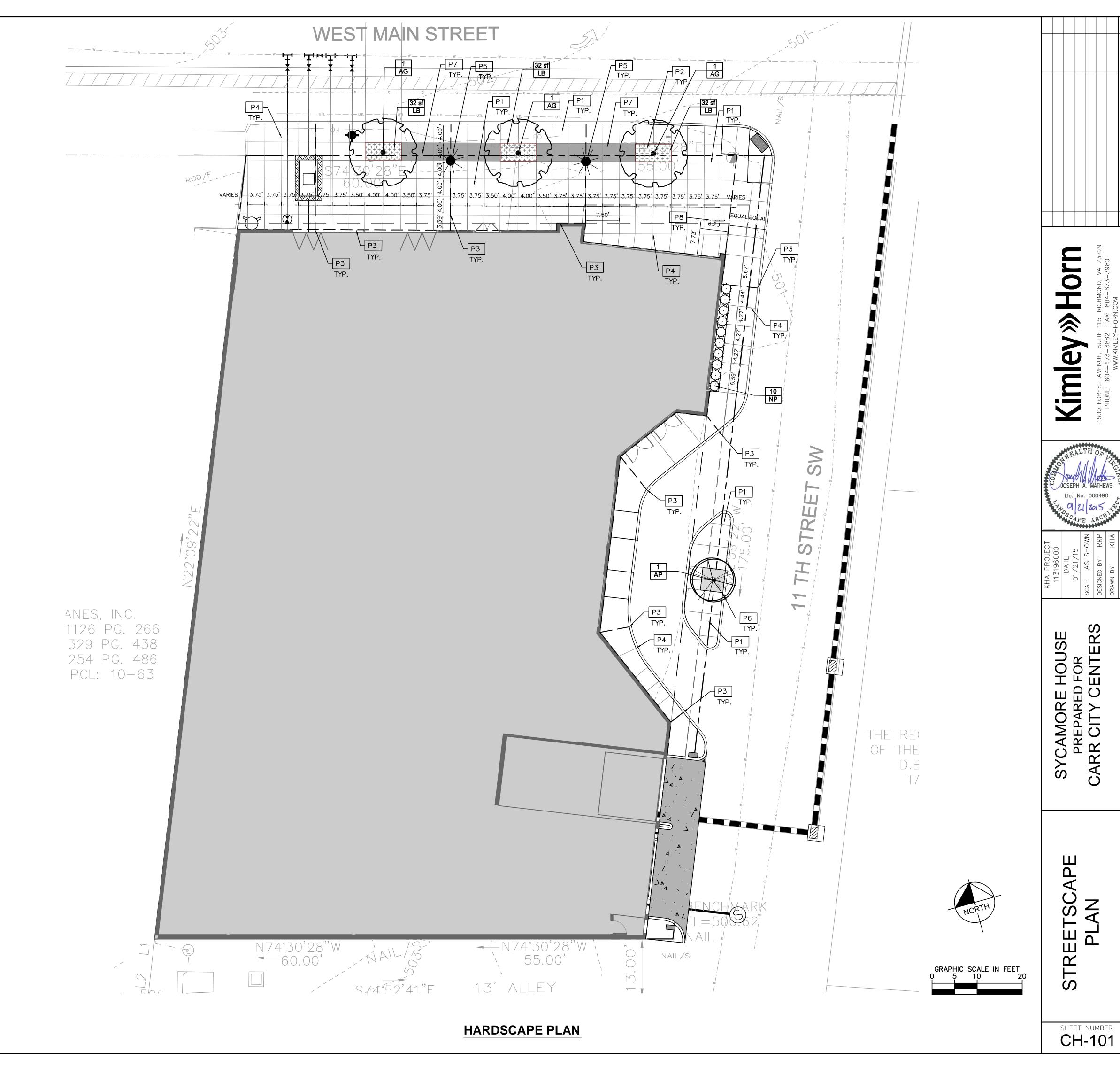
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
   ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
- 4. THESE DRAWINGS ARE NOT FOR CONSTRUCTION PURPOSES AND ARE FOR INFORMATION PURPOSES ONLY. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
- 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 4290-128.

## **ECHO**

MODEL EC2-07-EM: ECHO, SERPENTINE STYLE BIKE RACK - SEVEN SPACE RACK, EMBEDDED MOUNT

### TREE CANOPY CALCULATIONS

TREE CANOPY PROVIDED  3 RED MAPLES AT 2" CAL. = 397 SF EACH	3	1,191	SF
TOTAL CANOPY REQUIRED		265	SF
TEROLITI INCL OF WOLL INCOME.	10	рогоот	
PERCENT TREE CANOPY REQUIRED =	10	percent	
NET CALCULATION AREA		2654.57	SF
DRIVEWAY AREA		346.863	SF
BUILDING AREA		16987.6	51
DUM DINIO ADEA		40007.0	0.5
SITE AREA		19989	SF



A. CONTRACTOR SHALL REVIEW ALL DRAWINGS, SPECIFICATIONS, PERMITS, AND REGULATORY REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.

CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED SITE ELEMENTS AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES. SURVEY DATA OF EXISTING CONDITIONS WAS PROVIDED BY OTHERS.

D. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" OF VIRGINIA @ 1-800-552-7001 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE.

E. FINAL LOCATION OF ALL PLANTINGS SHALL BE DETERMINED IN THE FIELD BY THE OWNER'S CHOSEN REPRESENTATIVE.

SUBSTITUTIONS AND/OR MODIFICATIONS TO PLANTING LAYOUT, PLANT MATERIALS, ETC. SHALL NOT BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNERS REPRESENTATIVE.

CONTRACTOR SHALL INSTALL ALL PLANT MATERIALS AS SHOWN IN THE DETAILS, AND AS INDICATED IN THE LANDSCAPE SPECIFICATIONS.

H. THE PLANTING OF TREES SHALL BE DONE IN ACCORDANCE WITH THE STANDARDIZED LANDSCAPE SPECIFICATIONS JOINTLY ADOPTED BY THE VIRGINIA NURSERYMEN'S ASSOCIATION, THE VIRGINIA SOCIETY OF LANDSCAPE DESIGNERS AND THE VIRGINIA CHAPTER OF THE AMERICAN SOCIETY OF

SIZE AND GRADING STANDARDS OF PLANT MATERIALS SHALL CONFORM TO THE LATEST ADDITION OF ANSI Z60.1, AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN NURSERY AND LANDSCAPE

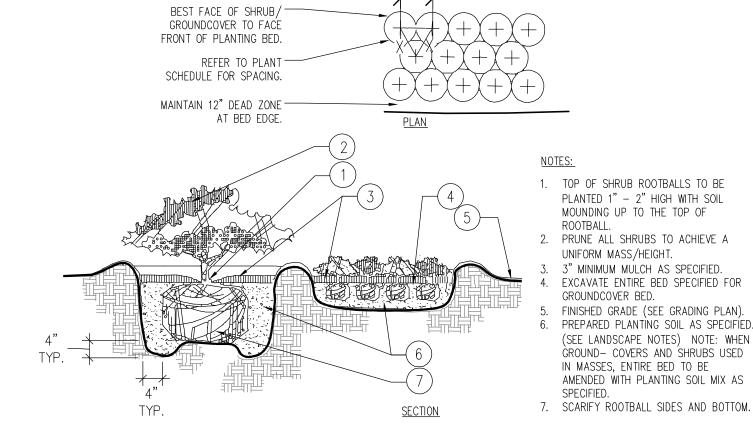
ALL PLANT MATERIALS SHALL BE NURSERY GROWN STOCK AND SHALL BE FREE OF ANY DEFORMITIES, DISEASES, OR INSECT DAMAGE. ANY MATERIALS WITH DAMAGED OR DISFIGURED/ CROOKED LEADERS, BARK ABRASIONS, SUNSCALD, INSECT DAMAGE, ETC., ARE NOT ACCEPTABLE AND WILL BE REJECTED.

K. TREES NOT EXHIBITING A CENTRAL LEADER WILL BE REJECTED UNLESS CALLED OUT IN THE PLANT LIST AS MULTI-STEM.

L. PLANTING BEDS SHALL RECEIVE 3" OF DARK, SHREDDED HARDWOOD MULCH THROUGHOUT. ORANGE AND/ OR RED MULCH IS NOT ACCEPTABLE.

M. PLANT MATERIALS SHOWN ON PLANS ARE A GRAPHIC REPRESENTATION ONLY. CONTRACTOR SHALL PERFORM ALL LANDSCAPE INSTALLATION ON THE SUBJECT PROPERTY, AND NOT ON ADJACENT PROPERTIES, UNLESS OTHERWISE DIRECTED BY THE OWNER OR THE OWNER'S REPRESENTATIVE. ROOTBALLS OF SHRUBS AND TREES SHALL BE PLANTED, IN THEIR ENTIRETY, WITHIN THE BOUNDARIES OF THE SUBJECT PROPERTY.

N. QUANTITY TAKE-OFFS INDICATED ON THE PLANTING SCHEDULE ARE FOR CONVENIENCE ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLANS AND THE SCHEDULE, THE GRAPHIC REPRESENTATION IN THE PLANS SHALL DICTATE.



 ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

Shrub/Groundcover Planting

STANDARD LANDSCAPING SPECIFICATIONS:

MOUNDING UP TO THE TOP OF

3" MINIMUM MULCH AS SPECIFIED. EXCAVATE ENTIRE BED SPECIFIED FOR

AMENDED WITH PLANTING SOIL MIX AS

UNIFORM MASS/HEIGHT.

GROUNDCOVER BED.

1. ALL TOPSOIL SHALL BE A MINIMUM OF 8" IN TREE, SHRUB AND GROUND COVER BEDS.

2. ALL LANDSCAPE AND GRASS AREAS ARE TO BE HAND RAKED AND LEFT CLEAR OF ALL STONES, ROCK, CONSTRUCTION DEBRIS AND ANY UNSUITABLE MATERIALS.

3. LANDSCAPE CONTRACTOR WILL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION AND

4. ALL AREAS TO BE LANDSCAPED OR COVERED WITH MULCH MUST BE TREATED WITH A PRE-EMERGENCE HERBICIDE (SURFLAN, DACTAL OR APPROVED EQUAL) IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE REGULATIONS AND THE MANUFACTURER'S INSTRUCTIONS.

5. ALL PROPOSED LANDSCAPING TO BE NURSERY GROWN, TYPICAL OF THEIR SPECIES OR VARIETY. THEY ARE TO HAVE NORMAL VIGOROUS ROOT SYSTEMS. FREE FROM DEFECTS AND INFECTIONS AND IN ACCORDANCE WITH ANSI Z60.1.

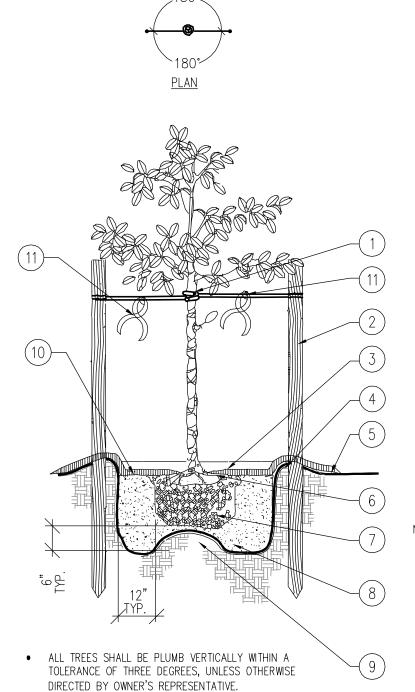
6. ALL PROPOSED PLANTINGS SHOULD BE INSTALLED PER STANDARDS OF THE "AMERICAN ASSOCIATION OF NURSERYMEN" AND STATE NURSERY/LANDSCAPE ASSOCIATIONS WITH REGARD TO PLANTING, PIT SIZE, BACKFILL MIXTURE, STAKING AND GUYING.

7. ALL PLANTING CONTAINERS AND BASKETS SHALL BE REMOVED DURING PLANTING. ALL PLANTS SHALL BE SET PLUMB AND POSITIONED SO THAT THE TOP OF THE ROOT COLLAR MATCHES, OR IS NO MORE THAN TWO (2") INCHES ABOVE, FINISHED GRADE. REPLACE AMENDED BACKFILL IN 6-INCH LAYERS AND COMPACT BACKFILL TO ELIMINATE VOIDS. CONTRACTOR SHALL PROVIDE A FOUR-INCH HIGH EARTHEN WATERING SAUCER ALONG THE PERIMETER OF EACH PLANTING PIT. CONTRACTOR SHALL WATER NEWLY PLANTED VEGETATION PRIOR TO MULCHING PLANTING PIT. ALL VOIDS SHALL BE FILLED AND SETTLING MITIGATED AS REQUIRED. ALUMINUM EDGING SHALL BE INSTALLED AROUND ALL PLANTING AREAS TO DELINEATE BETWEEN DIFFERENT LANDSCAPE MATERIALS.

8. AFTER INITIAL WATERING AND PRIOR TO MULCHING, CONTRACTOR SHALL APPLY HERBICIDES AND PRE-EMERGENT HERBICIDES AS REQUIRED TO ELIMINATE ANY WEED SEEDS OR PLANTS PRESENT ON ROOT

9. ALL PLANTING BEDS AND PITS SHALL BE MULCHED WITH DOUBLE GROUND HARDWOOD MULCH AT A

10. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETENESS. THE CONTRACTOR SHALL REPLACE PLANTS, DEAD, UNHEALTHY, DYING OR DAMAGED THROUGH LOSS OF BRANCHES AND/OR FOLIAGE. LAWNS THAT ARE NOT IN GOOD CONDITION AT THE END OF THE GUARANTEE PERIOD SHALL BE REPAIRED UNTIL A GOOD LAWN RESULTS. IT IS UNDERSTOOD THAT THE OWNER SHALL ASSUME RESPONSIBILITY FOR WATERING ALL PLANT MATERIAL AND LAWN AREA BEGINNING WITH THE DATE OF SUBSTANTIAL COMPLETENESS.



1. ARBORTIE (NOTE FOR MULTI-TRUNK TREES, USE SEPARATE GUYS TO STRONGEST TRUNKS AT CENTER OF EACH). 2. TWO 1.5" X 8' MIN. SQUARE OR ROUND STAKES SPACED EVENLY EACH SIDE OF

3. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL EXTEND APPROX. 6" BEYOND EARTH SAUCER/BERM UNLESS INDICATED OTHERWISE BY OWNERS REPRESENTATIVE. AN APPROVED WEED BARRIER FABRIC SHALL BE INSTALLED IN ALL PLANTING BEDS.

4. SOIL BERM TO HOLD WATER. (NOTE REQUIRED FOR TREES IN SIDEWALK TREE PLANTERS) FINISHED GRADE (SEE GRADING PLAN) TOP OF ROOTBALL MIN. 1" ABOVE FINISHED

7. B & B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL

REQUIREMENTS).

8. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES) 9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING

ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH. APPROVED WEED BARRIER. 11. FLAG ALL TREE TIE WIRES WITH BRIGHTLY COLORED FLAGGING.

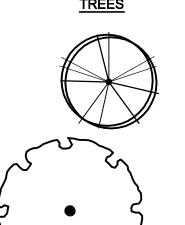
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION. FINAL TREE STAKING DETAILS AND

PLACEMENT TO BE APPROVED BY OWNER. "TREE SAVER" ANCHORING SYSTEM MAY BE SUBSTITUTED FOR WOOD STAKING SYSTEM UPON APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE AND THE CITY OF CHARLOTTESVILLE.

Small Tree Planting (TREES UNDER 3" CAL. OR 14' IN HEIGHT) PLANT SCHEDULE

CODE QTY BOTANICAL NAME

ACER PALMATUM



ACER RUBRUM 'OCTOBER GLORY' TM OCTOBER GLORY MAPLE B & B

3.5"CAL 10` HT. MIN.

<u>CAL</u>

SIZE

4`-5` HT. MIN.

-COMPACTED SUBGRADE

-CURB AND GUTTER

-ASPHALT PVMT.

<u>CONT</u>

**B&B OR CONT.** 

LIMBED TO 6' H

**REMARKS** 

**REMARKS** 

**BOTANICAL NAME COMMON NAME** FIREPOWER NANDINA CONT

STRUCTURAL "CU" SOIL AREA

NANDINA DOMESTICA 'FIRE POWER' 12"-15"SP. **COMMON NAME** BOTANICAL NAME SPACING REMARKS

95 SF LIRIOPE MUSCARI 'BIG BLUE' **BIG BLUE LILYTURF** 6" POT SPACE AT 18" (

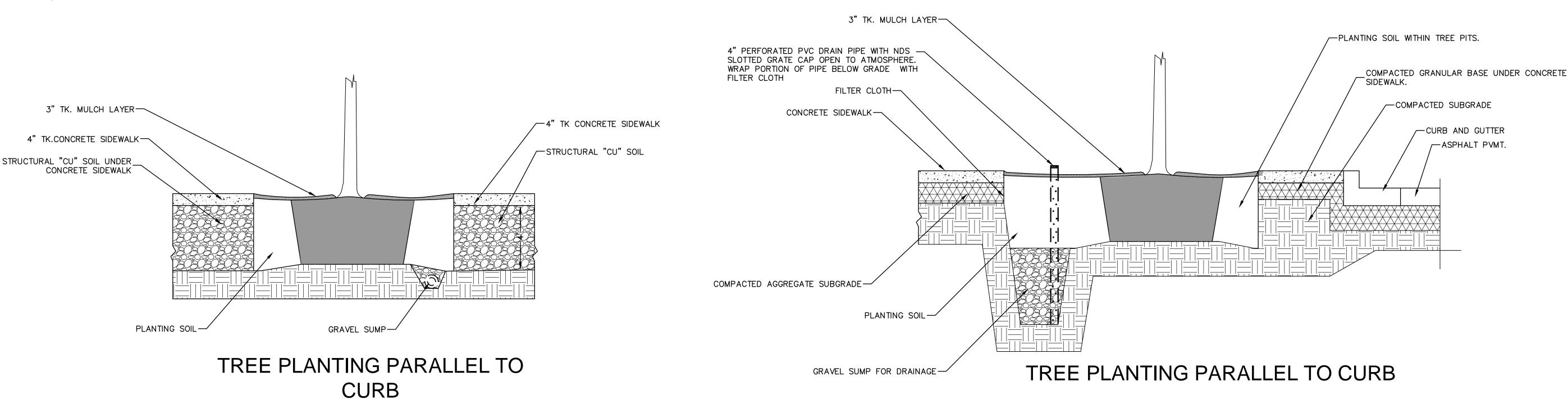
**COMMON NAME** 

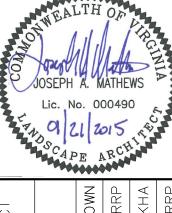
JAPANESE MAPLE

UNDER PAVING CONTINUOUS FROM-TREE PLANTER TO TREE PLANTER CONCRETE SIDEWALK OVER 'CU" SOIL ROOTBALL SIZE PER -AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS CONCRETE SIDEWALK OVER COMPACTED AGGREGATE BASE -MULCH OVER PLANTING SOIL CONCRETE SIDEWALK OVER PVC PIPE FROM GRAVEL SUMP COMPACTED AGGREGATE BASE CONCRETE SIDEWALK OVER CU" SOIL-

# TREE PLANTING PLAN DIAGRAM FOR MIDDLE TREE PLANTER

 NOTE, MIDDLE TREE PLANTER WILL HAVE "CU" SOIL ON BOTH SIDES OF THE PLANTER CONTINUOUS
BETWEEN TEH TREE PLANTERS. THE TWO END PLANTERS WILL ONLY HAVE THE STRUCTURAL SOIL ON THE SIDE ADJACENT TO THE MIDDLE PLANTER.





SHEET NUMBER CH-501