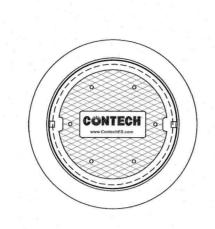


CASCADE SEPARATOR DESIGN NOTES THE STANDARD CS-4 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS. CONFIGURATION DESCRIPTION GRATED INLET ONLY (NO INLET PIPE) GRATED INLET WITH INLET PIPE OR PIPES CURB INLET ONLY (NO INLET PIPE) CURB INLET WITH INLET PIPE OR PIPES



FRAME AND COVER (DIAMETER VARIES)

NOT TO SCALE

SITE SPECIFIC **DATA REQUIREMENTS** WATER QUALITY FLOW RATE (cfs [L/s]) PEAK FLOW RATE (cfs [L/s]) RETURN PERIOD OF PEAK FLOW (yrs) PIPE DATA: INVERT MATERIAL DIAMETER **INLET PIPE 1 INLET PIPE 2 OUTLET PIPE** NOTES / SPECIAL REQUIREMENTS

- GENERAL NOTES

 1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE. 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- 3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT. 4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER
- ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- 5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN

6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

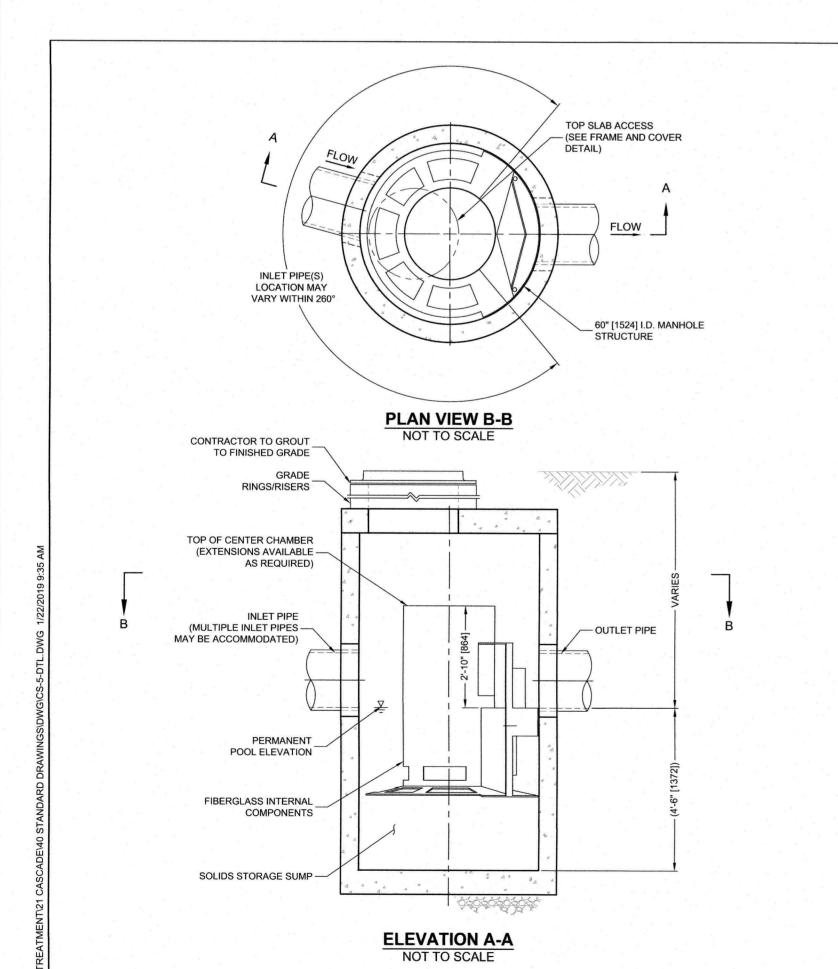
- NSTALLATION NOTES

 A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

www.contechES.com 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069

300-338-1122 513-645-7000 513-645-7993 FA

CASCADE SEPARATOR STANDARD DETAIL



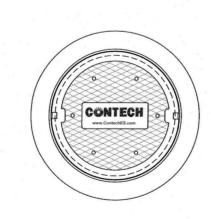
CASCADE

separator™

CASCADE

separator™

CASCADE SEPARATOR DESIGN NOTES THE STANDARD CS-5 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS. CONFIGURATION DESCRIPTION GRATED INLET ONLY (NO INLET PIPE) GRATED INLET WITH INLET PIPE OR PIPES CURB INLET ONLY (NO INLET PIPE) CURB INLET WITH INLET PIPE OR PIPES



SITE SPECIFIC DATA REQUIREMENTS STRUCTURE ID WATER QUALITY FLOW RATE (cfs [L/s]) PEAK FLOW RATE (cfs [L/s]) RETURN PERIOD OF PEAK FLOW (yrs) RIM ELEVATION **INLET PIPE 1** INLET PIPE 2 DUTLET PIPE NOTES / SPECIAL REQUIREMENTS

FRAME AND COVER (DIAMETER VARIES) NOT TO SCALE

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

- 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN
- THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT. 4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER
- ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- 5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN
- 6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

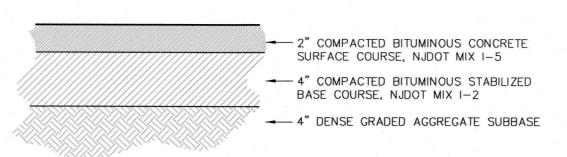
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE

- SPECIFIED BY ENGINEER OF RECORD. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE
- CENTERLINES TO MATCH PIPE OPENING CENTERLINES. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

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5 Centre Pointe Dr., Suite 400, West Chester, OH 45069

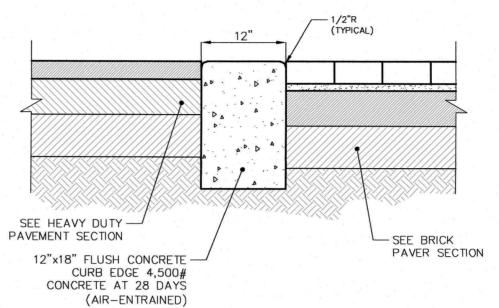
0-338-1122 513-645-7000 513-645-7993 FAX

CS-5 CASCADE SEPARATOR STANDARD DETAIL



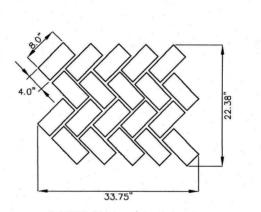
1) NOT A DESIGN PAVEMENT, SUBJECT TO ONSITE SOILS TESTING. 2) ALL MATERIALS AND METHODS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS.

(3 LAYER) PAVEMENT SECTION



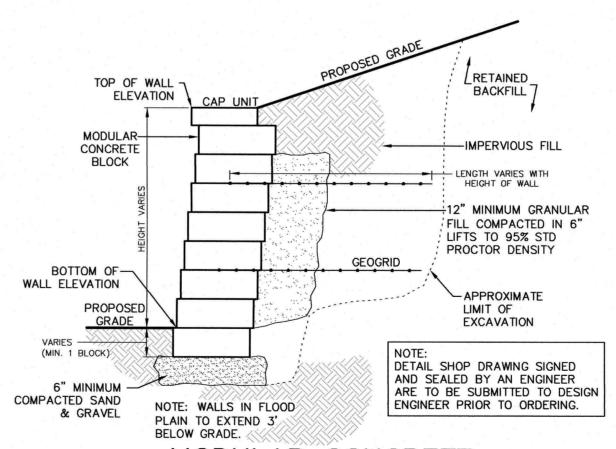
. EXPANSION JOINTS TO BE 1/2" PREMOLDED, ASPHALT IMPREGNATED, JOINT FILLER MATERIAL CUT TO FIT CROSS SECTION, RECESSED 1/4" FROM EXPOSED FACES AND ARE TO BE PLACED: IN TRAVERSE JOINTS 20' O.C. MAX; BETWEEN CURB AND CONCRETE SIDEWALK OR PAVEMENT; AT ALL STRUCTURES; AND AT THE END OF EACH WORK DAY. 2. ALL MATERIALS AND METHODS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS.

BRICK PAVER CONCRETE EDGE DETAIL



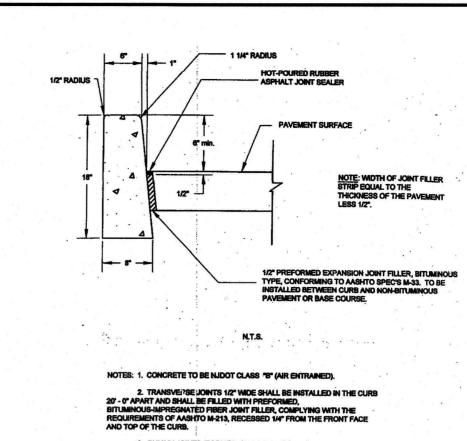
HERRINGBONE (FOR COURTYARD/BUMPOUT AREAS)

BRICK PAVERS PATTERN DETAIL N.T.S.

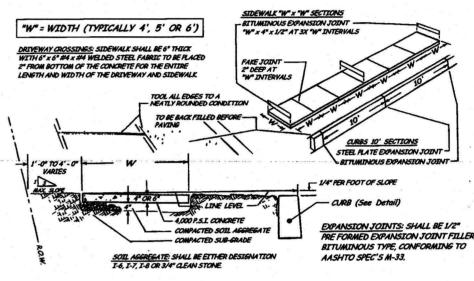


MODULAR CONCRETE BLOCK RETAINING WALL

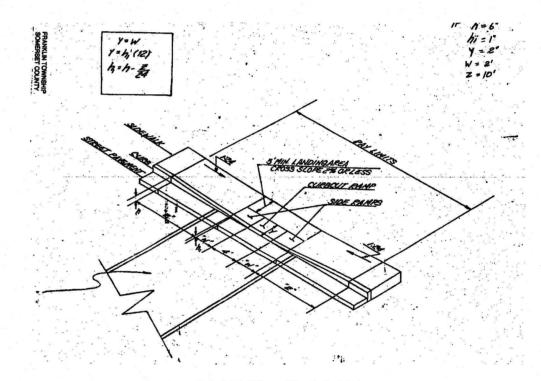
N.T.S.



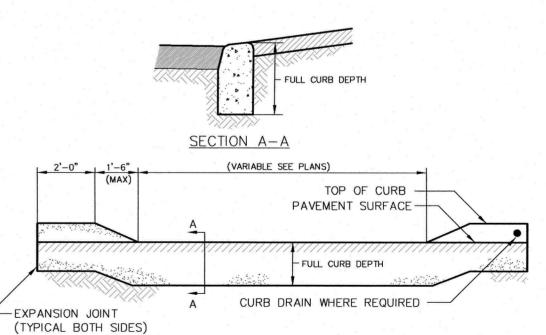
CONCRETE VERTICAL CURB



CONCRETE SIDEWALK DETAIL



CURB RAMP



1. ALL MATERIALS AND METHODS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS.

FLUSH CURB N.T.S.

ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE UNIFORM TRAFFIC CONTROL DEVICES ALL CONSTRUCTION DETAILS SHALL I SUPERCEDED BY APPLICABLE MUNICIPAL, COUNTY OR STATE DETAILS UNLESS OTHERWISE NOTED STRUCTURAL DETAILS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY SHOP DRAWINGS SHALL BE PROVIDED TO THE TOWNSHIP ENGINEER FOR ALL WALLS AND STRUCTURAL ELEMENTS PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL PRECAST STRUCTURES PRIOR TO THE ORDERING OF MATERIALS. DETAILS ASSUME APPROPRIATE LOAD BEARING CAPACITY AND COMPACTION OF SOILS. ACTUAL FIELD CONDITIONS SHALL BE CONFIRMED BY ON-SITE GEOTECHNICAL ENGINEER. RESIDENTIAL DEVELOPMENTS SHALL CONFORM TO DETAILS WITHIN THE CURRENT EDITION OF THE RESIDENTIA SITE IMPROVEMENT STANDARDS ALL CONSTRUCTION DETAILS ARE NOT TO SCALE (N.T.S.) UNLESS OTHERWISE REVISIONS

CONSTRUCTION DETAIL NOTES

THIS DRAWING IS FOR PERMIT PURPOSES ONLY NOT FOR CONSTRUCTION UNTIL THIS BOX

HAS BEEN CHECKED AND DATED ☐ CHKD BY: ____ DATE: _



DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.



732-846-8585 732-846-9439 Certificate of Authorization: 24GA27951900

COSMOPOLITAN ATSOMERSET TOWN CENTER

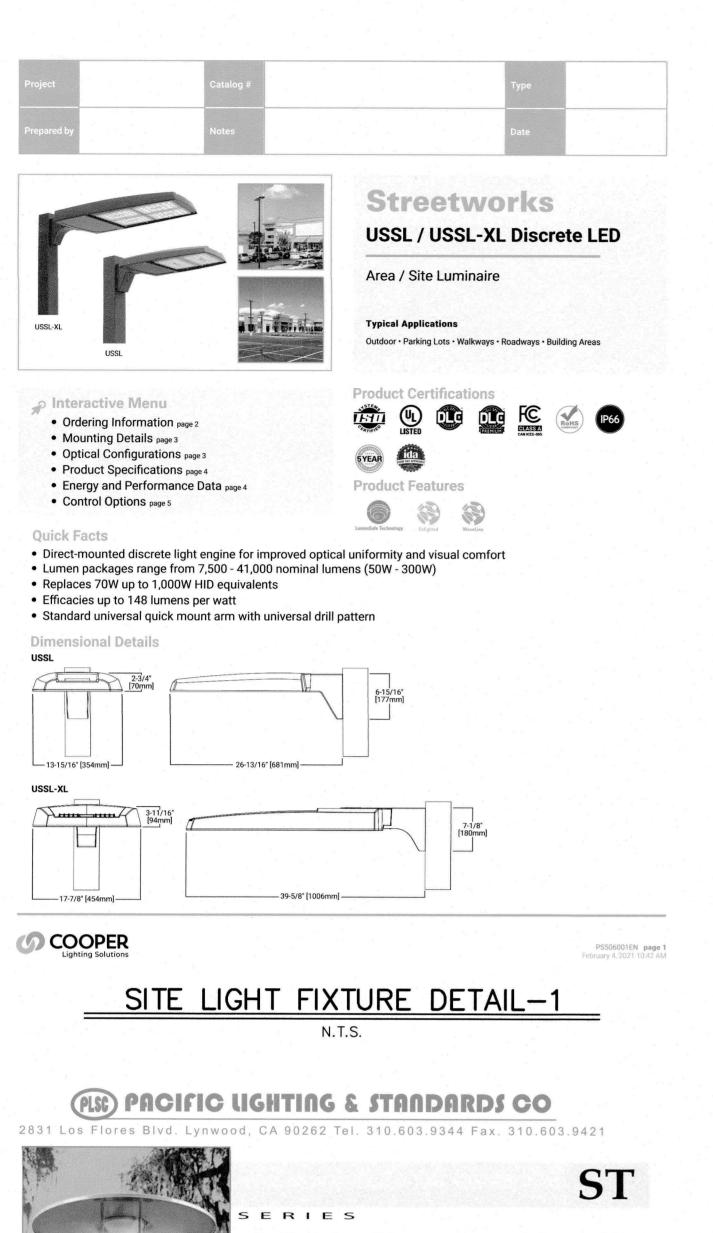
> 940 EASTON AVENUE FRANKLIN TOWNSHIP SOMERSET COUNTY **NEW JERSEY**

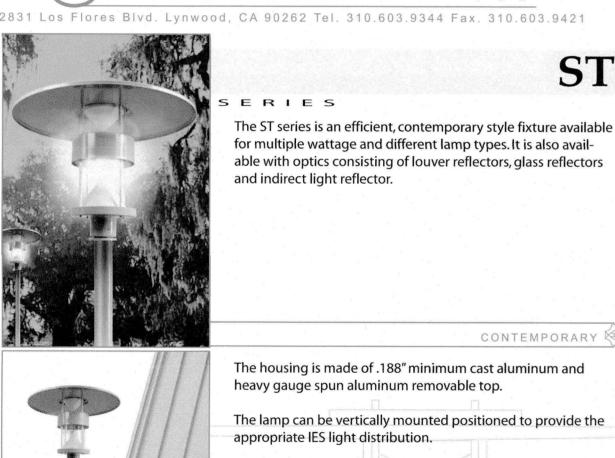
BLOCK 385, LOT 2.07 TAX MAP SHEET 83 27.418 ACRES

CONSTRUCTION **DETAILS** (3)

RAWN BY DESIGNED BY APPROVED BY THIS WORK PREPARED UNDER MY IMMEDIATE SUPERVISION... PROFESSIONAL ENGINEER NJPE# 43811

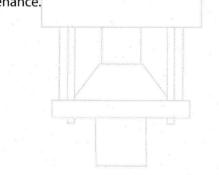
2021.019 DE-3 DATE OF ISSUE AUGUST 16, 2021 REVISION





easy maintenance.

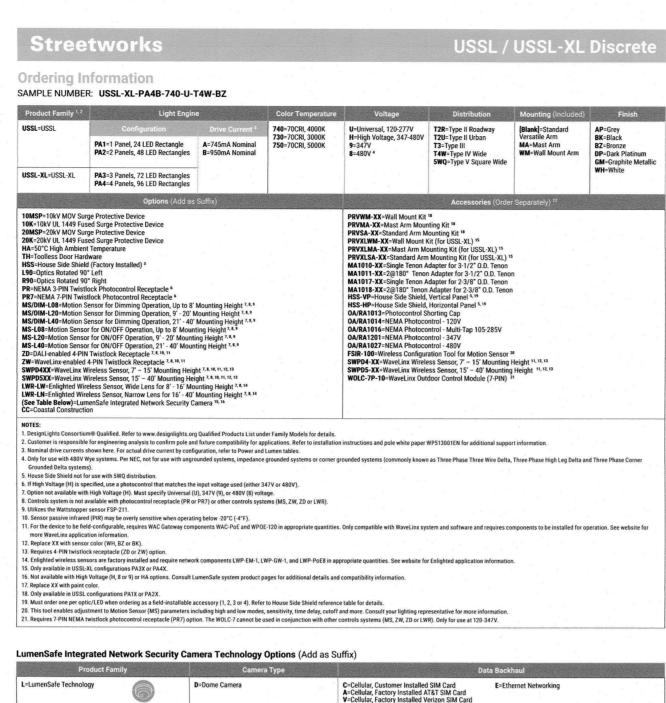
All electrical components are UL listed with electromagnetic high power factor ballast for HID lamps in voltages of 120 to 480 or an electronic ballast for compact fluorescent lamp in 120 or 277 volts. Ballasts are mounted on a removable tray for



UL LISTED FOR WET LOCATIONS www.pacificlighting.com

DECORATIVE LIGHT FIXTURE DETAIL-1

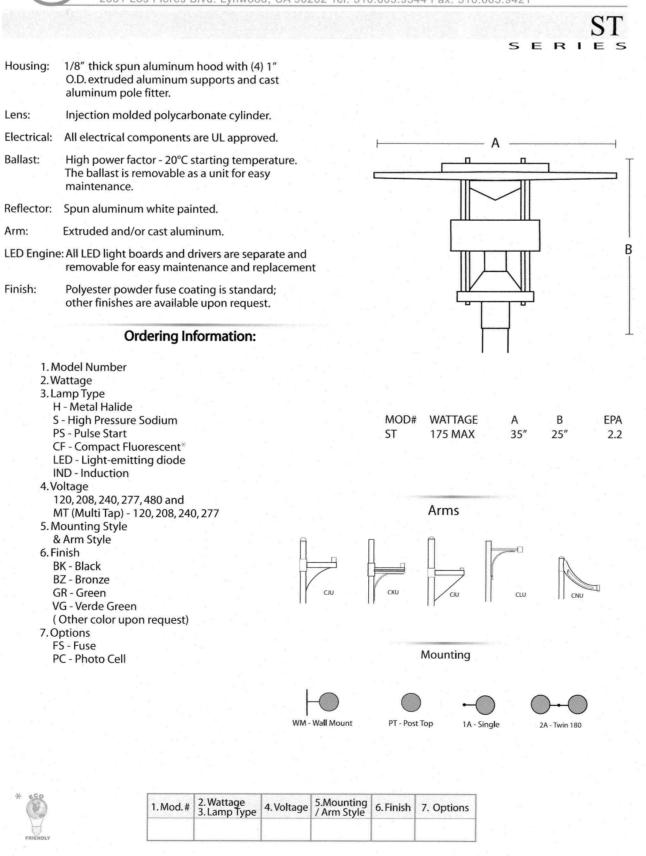
N.T.S.



COOPER SITE LIGHT FIXTURE DETAIL-2

PS506001EN page 2 February 4, 2021 10:42 AM

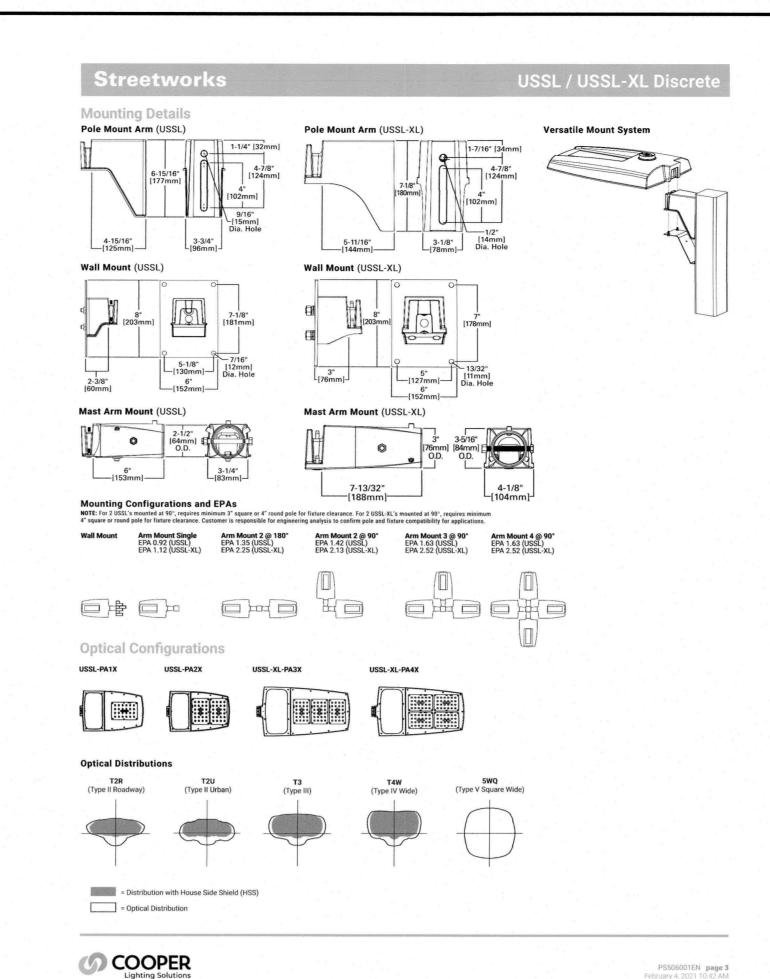
PACIFIC LIGHTING & STANDARDS CO.



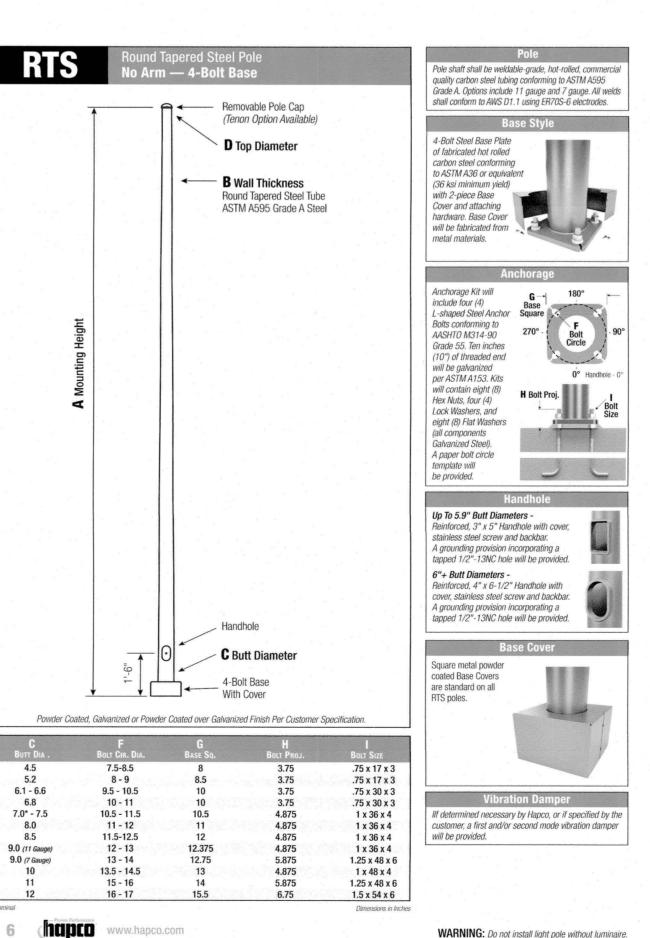
DECORATIVE LIGHT FIXTURE DETAIL-2

www.pacificlighting.com

UL LISTED FOR WET LOCATIONS



SITE LIGHT FIXTURE DETAIL-3



SITE LIGHT POLE DETAIL-1

Product Specifications Construction <20% total harmonic distortion Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate · Single-piece die-cast aluminum housing Tethered die-cast aluminum door 0-10V dimming driver is standard with leads external to the fixture Dark Sky Approved (3000K CCT and warmer only) · Precision molded polycarbonate optics Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for -40°C minimum operating temperature · 40°C maximum operating temperature · A knock-out on the standard mounting arm enables >.9 power factor round pole mounting **Energy and Performance Data** Power and Lumens (USSL) Power (Watts) 54 74 113 151 670 930 720 970 Drive Current (mA) Input Current @ 120V (A Input Current @ 277V (Input Current @ 347V (A Input Current @ 480V (A) Lumens per Wat

Power and Lumens (USSL-XL) Power (Watts) Drive Current (mA) 0.62 0.93 1.26 1.44 1.95 2.04 2.53 Input Current @ 120V (A) 0.62 0.85 0.93 Input Current @ 277V (A) 0.52 0.70 0.74 0.90 0.23 0.33 0.45 Input Current @ 347V (A) 0.24 0.33 0.39 0.52 0.53 0.65 22,511 27,912 31,025 36,145 24,692 30,616 34,031 39,647 9.886 15.795 19.724 B4-U0-G4 B4-U0-G4 B4-U0-G4 144 131 139 131 Lumens per Watt 22,488 27,882 30,992 36,107 24,621 30,527 33,932 39,532 B3-U0-G4 B3-U0-G5 B3-U0-G5 B4-U0-G5 22,423 27,802 30,903 36,002 24,325 30,161 33,525 39,057 B3-U0-G4 B3-U0-G5 B3-U0-G5 B4-U0-G5 141 129 137 129 22,153 27,468 30,531 35,570 23,180 28,741 31,947 37,219

USSL / USSL-XL Dis

USSL: 3G vibration rated (all arms)

2.5 mil nominal thickness

• USSL-XL: 45 lbs. (20.41 kgs.)

USSL: 20 lbs. (9.09 kgs.)

Shipping Data

· USSL-XL Mast Arm: 3G vibration rated

. USSL-XL Standard Arm: 1.5G vibration rated

· Five-stage super TGIC polyester powder coat paint,

House Side Shield Reference Table

HSS-HP HSS-HP (qty 2) (qty 3) HSS-VP (qty 1) HSS-VP (qty 4) HSS-VP (qty 2)

PS506001EN page 4 February 4, 2021 10:42 AM

COOPER

Up to 50°C

SITE LIGHT FIXTURE DETAIL-4

96.76%

The catalog number for Hapco poles utilizes the RTS - 4-WALL TOP ACCESORIES GAUGE DIA. OPTIONS SHAFT ASSEMBLY RTS30B75-4-RTS 30 B 80 - 4 - BM RTS30B90-4-Round Tapered Steel, 30' Mounting Height, 11 Gauge, 8" Butt Diameter, Tapered, 4-Bolt Base, Dark Bronze Powder Coat Finish. RTS35B80-4-* RTS35B85-4-RTS39B90-4-*

> ATSOMERSET TOWN CENTER 940 EASTON AVENUE FRANKLIN TOWNSHIP SOMERSET COUNTY

> > BLOCK 385, LOT 2.07 TAX MAP SHEET 83 27.418 ACRES

NEW JERSEY

CONSTRUCTION DETAIL NOTES ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE

CURRENT EDITION OF THE MANUAL OF

UNIFORM TRAFFIC CONTROL DEVICES ALL CONSTRUCTION DETAILS SHALL E

SUPERCEDED BY APPLICABLE

PRIOR TO CONSTRUCTION.

GEOTECHNICAL ENGINEER.

MUNICIPAL, COUNTY OR STATE

DETAILS UNLESS OTHERWISE NOTED.

STRUCTURAL DETAILS ARE PROVIDED

FOR INFORMATIONAL PURPOSES ONLY

SHOP DRAWINGS SHALL BE PROVIDED

TO THE TOWNSHIP ENGINEER FOR AL

WALLS AND STRUCTURAL ELEMENTS

SHOP DRAWINGS SHALL BE PROVIDED

TO THE ORDERING OF MATERIALS.

DETAILS ASSUME APPROPRIATE LOAD

BEARING CAPACITY AND COMPACTION OF SOILS. ACTUAL FIELD CONDITIONS

SHALL BE CONFIRMED BY ON-SITE

RESIDENTIAL DEVELOPMENTS SHALL CONFORM TO DETAILS WITHIN THE CURRENT EDITION OF THE RESIDENTIA

SITE IMPROVEMENT STANDARDS

ALL CONSTRUCTION DETAILS ARE NOT

TO SCALE (N.T.S.) UNLESS OTHERWISE

REVISIONS

THIS DRAWING IS FOR PERMIT PURPOSES ONLY NOT FOR CONSTRUCTION UNTIL THIS BOX

HAS BEEN CHECKED AND DATED

THE STATE OF NEW JERSEY REQUIRES NOTIFICATION BY EXCAVATORS. DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.

menlo

engineering

associates

Civil Engineering Consultant Landscape Architects Professional Planners

732-846-8585 732-846-9439

Certificate of Authorization: 24GA27951900

COSMOPOLITAN

☐ CHKD BY: ____ DATE: __

FOR ALL PRECAST STRUCTURES PRIOR

CONSTRUCTION

DETAILS (4)

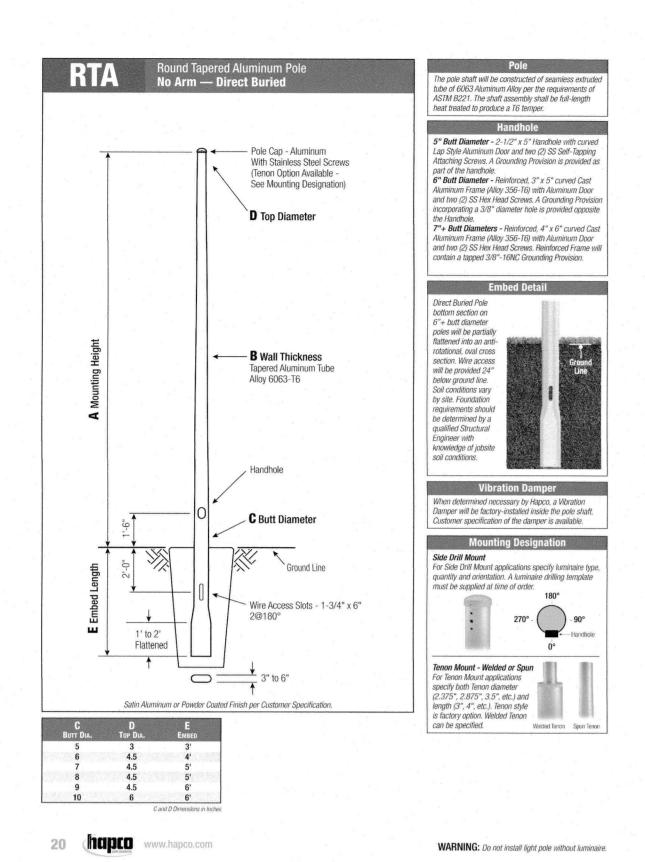
DRAWN BY DESIGNED BY APPROVED BY THIS WORK PREPARED LANDSCAPE ARCHITECT NJ LICENSE #ASO00071 DE-4

2021.019 DATE OF ISSUE AUGUST 16, 2021 REVISION

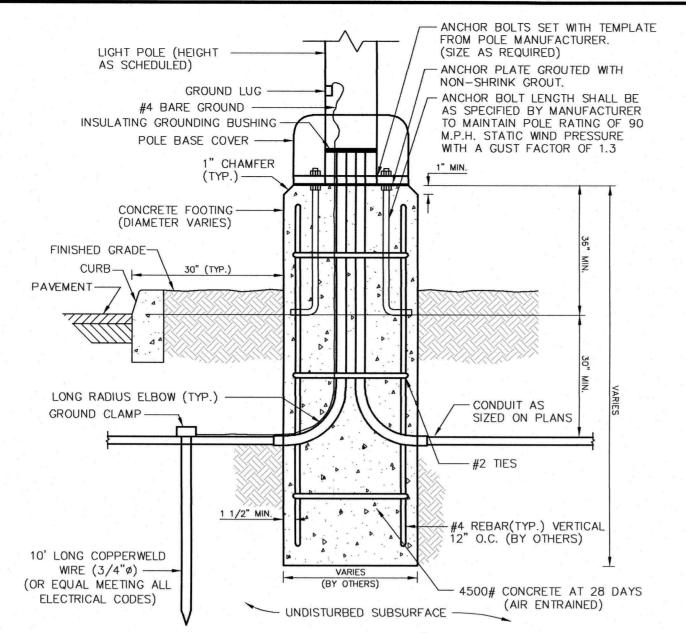
2-Piece Shaft Design **EPA Notes:** 41.1 32.5 30.3 24.9 20.8 17.5 RTS45D11-4-** using wind velocity (mph) indicated in accordance with 2009 RTS45D12-4-** RTS50B10-4-** ASHTO LTS-5 using a 25-year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight 34.4 26.9 24.7 20.9 16.7 13.9 RTS50D11-4-** may reduce the maximum EPA. If weight is exceeded, or if other 41.2 33.0 30.9 25.6 21.9 18.7 RTS50D12-4-** design life or code is required, please consult the factory. **Drill Mount Options Electrical Box Pole Orientation** Side Drill Mount Includes removable NOTE: A luminaire drilling template must be supplied at time of order. Tenon Mount For Tenon Mount both Tenon diameter D390 and length. D290 - Std. "A" & "D" D218 - Std. "A" & "C" FD - 30" Up, "C" FE - 36" Up, "D" GF1 - Duplex GFI Receptacle FE - 36" Up, "B"
FF - 36" Up, "A"
FH - 36" Up, "A"
FH - 36" Up, "D"
FK - 24" Up, "D"
FK - 24" Up, "A"
FL - 24" Up, "C"
FZ - Custom** GF2 - Duplex GFI (WR) with In-Use Cover D490 - Std. "A", "B", "C", & XX - Special Colors* GALVANIZED LAB - Less Anchor Bolts
LPC - Less Pole Cap
PAB - Pre-shipped Anchor Bolts
VD2 - Vib. Damper - 2nd Mode TENON 1C - Black PC Over Gal T304 - 2-7/8" O.D. x 4" - D. Green PC Over Gal Add all that apply (Example: CPL-LAB-VD1) TCUS - Custom Tenon** XX - Special PC Over Galv. Specify Location Specify Number and Orientation
Specify O.D. and Height ** Specify Height and Orientation * Provide RAL # or Sample Color Chip

SITE LIGHT POLE DETAIL-2

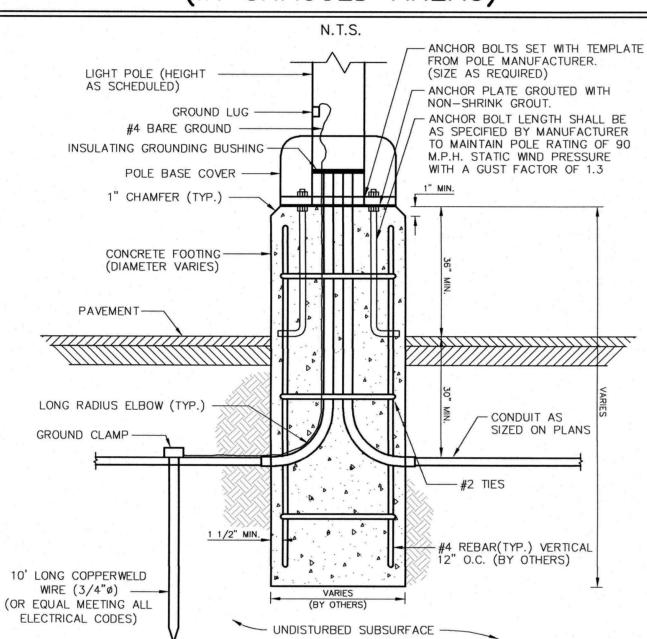
WARNING: Do not install light pole without luminaire.



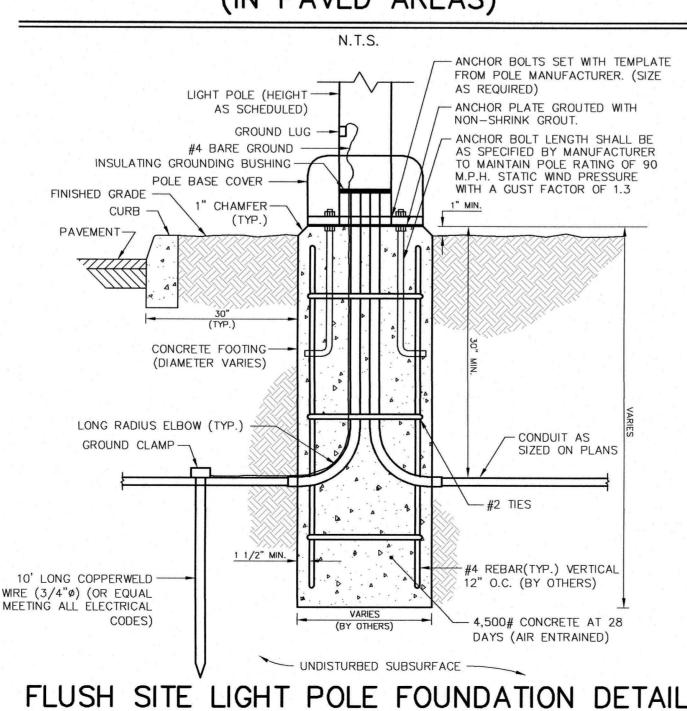
LIGHT POLE DETAIL



RAISED SITE LIGHT POLE FOUNDATION DETAIL (IN GRASSED AREAS)



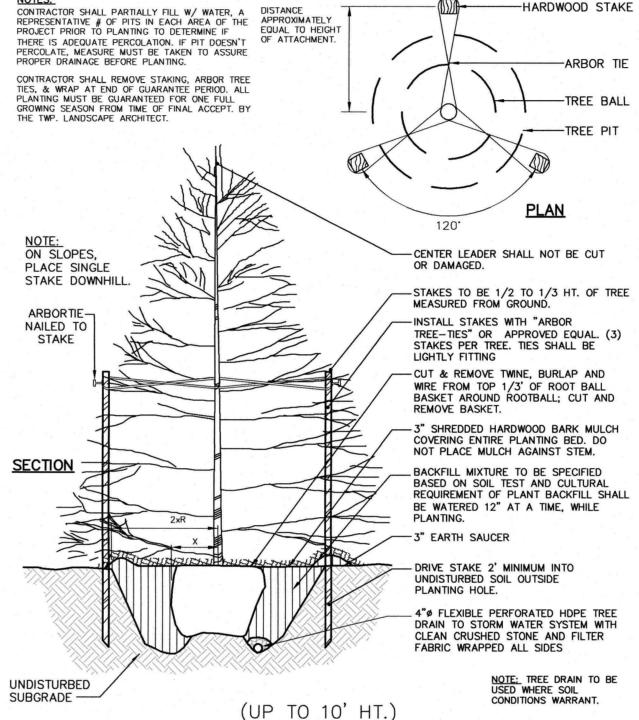
RAISED SITE LIGHT POLE FOUNDATION DETAIL (IN PAVED AREAS)



(IN GRASSED AREAS)

PRUNE DAMAGED AND CONFLICTING -NOTES: BRANCHES MAINTAINING NORMAL 1) CONTRACTOR SHALL TREE SHAPE. NEVER CUT CENTRAL PARTIALLY FILL WITH WATER, A REPRESENTATIVE # OF TRUNK OR LEADER. PITS IN FACH AREA OF THE INSTALL 48" TALL A.M. LEONARD RIGID -PLASTIC MESH TREE GUARD (OR APPROVED TO DETERMINE IF THERE IS ADEQUATE PERCOLATION. EQUAL), DIAMETER SIZED IN ACCORDANCE PIT DOESN'T PERCOLATE WITH PLANTING SCHEDULE. MEASURE MUST BE TAKEN TO ASSURE PROPER STAKES TO BE 1/2 TO 1/3 HEIGHT OF THE -TREE MEASURED FROM THE GROUND. INSTALL DRAINAGE BEFORE PLANTING STAKES WITH "ARBOR TREE-TIES" OR EQUAL. 2) CONTRACTOR SHALL REMOV STAKING, ARBOR TREE TIES AND LDPE TREE GUARD AT END OF GUARANTEE PERIOD. (3) STAKES PER TREE SHALL BE LIGHTLY STAKES TO BE NOTCHED TO RECEIVE -ALL PLANTING MUST BE GUARANTEED FOR ONE FULL ARBOR TIES. GROWING SEASON FROM TIME "ARBOR TREE-TIES" OR EQUAL ---TRUNK FLARE SHALL BE VISIBLE. TREE SHALL THE TOWNSHIP LANDSCAPE BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO THE GRADE IN NURSERY. TOP OF TREES SHALL BE PROMDED ROOT BALL SHALL NOT BE BURIED. WATERING BAGS OR EQUA CUT AND REMOVE BURLAP FROM TOP 1/3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING OF ROOT BALL AS SHOWN. ALL WIRE AND PLASTIC SHALL BE CUT AND COMPLETELY FINAL ACCEPTANCE. REMOVED FROM ROOT BALL - 4"Ø FLEXIBLE PERFORATEI 3" DOUBLE SHREDDED HARDWOOD BARK MULCH. DO NOT PLACE MULCH AGAINST STEM. STORM WATER SYSTEM 4" EARTH SAUCER -WITH CLEAN CRUSHED STONE AND FILTER FABRIC WRAPPED ON ALL SIDES BACKFILL MIXTURE TO BE SPECIFIED BASED ON SOIL TEST AND CULTURAL REQUIREMENT OF FINISHED GRADE. PLANT. BACKFILL SHALL BE WATERED 12" AT A VARIES DRIVE STAKE 2' MINIMUM INTO UNDISTURBED -SOIL OUTSIDE OF THE PLANTING HOLE. UNDISTURBED MOUND OF 3" OF COMPACTED SOIL.

DECIDUOUS TREE PLANTING DETAIL WITH TREE GUARD

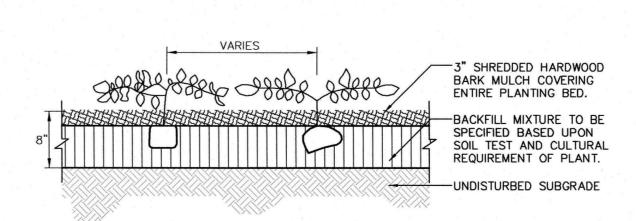


EVERGREEN TREE PLANTING DETAIL N.T.S.

-CUT AND REMOVE ALL TWINE, BURLAP, AND WIRE FROM TOP NOTES:

- CONTRACTOR SHALL PARTIALLY FILL W/ WATER, A REPRESENTATIVE # OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF THERE IS 1/3' OF ROOTBALL, IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND ROOTBALL; CUT AND ADEQUATE PERCOLATION. IF PIT DOESN'T PERCOLATE, MEASURE MUST BE TAKEN TO ASSURE PROPER DRAINAGE REMOVE TOP 8" OF WIRE. BEFORE PLANTING -SHRUB SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO THE GRADE IN THE NURSERY. TOP OF ROOT BALL SHALL NOT BE BURIED. " DOUBLE SHREDDED HARDWOOD BARK MULCH COVERING ENTIRE PLANTING BED. DO NOT PLACE MULCH AGAINST STEM. -3" EARTH SAUCER FINISHED GRADE BACKFILL MIXTURE TO B SPECIFIED BASED UPON SOIL TEST AND CULTURAL REQUIREMENT OF PLANT. BACKFILL SHALL BE WATERED, 12" AT A TIME, WHILE PLANTING. UNDISTURBED SUBGRADE

SHRUB PLANTING DETAIL



GROUNDCOVER PLANTING DETAIL

PLANTING NOTES

THE FOLLOWING RECOMMENDED PLANTING PERIODS SHOULD BE ADHERED TO WHENEVER POSSIBLE. 1) BROADLEAF AND CONIFEROUS EVERGREEN TREES, SHRUBS, VINES AND GROUND COVERS SHALL BE PLANTED BETWEEN AUGUST 15th AND SEPTEMBER 15th AND BETWEEN APRIL 15th AND MAY 15th. DECIDUOUS TREES, SHRUBS, VINES, GROUND COVERS AND PERENNIALS SHALL BE PLANTED BETWEEN OCTOBER 15th AND NOVEMBER 15th AND BETWEEN MARCH 15th AND MAY 15th. THESE PLANTING SEASONS MAY BE EXTENDED OR SHORTENED ACCORDING TO PREVAILING WEATHER CONDITIONS, SOIL CONDITIONS, AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE.

2) THE PLANTING OPERATION INCLUDES ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, SHIPPING, INCIDENTALS AND CLEAN-UP BY THE CONTRACTOR FOR THE INSTALLATION OF THE ENTIRE LANDSCAPE PLAN.

3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT

4) THE CONTRACTOR WILL EXAMINE ALL FIELD CONDITIONS FOR EXACT LOCATIONS OF UTILITIES. DRAINAGE SYSTEMS AND IRRIGATION SYSTEMS AND ADJUST PROPOSED PLANTINGS ACCORDINGLY. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER DEPTH OF TOPSOIL IN ALL AREAS AND THE PROVISION OF POSITIVE DRAINAGE. THE CONTRACTOR SHALL NOTIFY THE CLIENT, ENGINEER. AND/OR LANDSCAPE ARCHITECT OF ANY DETRIMENTAL DRAINAGE HAZARD, INCLUDING BUT NOT LIMITED TO INSUFFICIENT TOPSOIL, ETC. PRIOR TO THE INSTALLATION OF ANY MATERIALS, INCLUDING LAWN AREAS.

5) THE CONTRACTOR WILL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ALL SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. STATE CONDITION AND SUBMIT A PROPOSAL FOR CORRECTION IF FEASIBLE.

6) PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES. QUALITY AND SIZE OF PLANTS, SPREAD OR ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE MOST RECENT ANSI 760 "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.

7) PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.

8) GUARANTEE OF PLANT GROWTH: ALL PLANTS AND TREES SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION, PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FOR TREES AND SHRUBS FROM THE DATE OF FINAL ACCEPTANCE OR AS REQUIRED BY TOWNSHIP. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THE ABOVE STATED.

9) INSOFAR AS IT IS PRACTICAL, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE (3) DAY PERIOD AFTER

10) IF PLANT AVAILABILITY IS RESTRICTED, SUBSTITUTIONS MAY BE MADE WITHIN PLANT TYPE TO MÁINTAIN SIMILAR GROWTH AND ORNAMENTAL QUALITIES UPON NOTIFICATION AND APPROVAL BY THE LANDSCAPE ARCHITECT.

11) PLANT LOCATIONS SHOWN ARE DIAGRAMMATIC. ALL PLANTS SHOWN SEMI-MATURE SIZE ON PLANS. THE STAKING LAYOUT OF ALL PLANTINGS WILL BE INSPECTED BY THE LANDSCAPE ARCHITECT PRIOR INSTALLATION AS REQUESTED BY OWNER.

12) AREAS DISTURBED BY LANDSCAPE OPERATIONS SHALL BE GRADED TO MATCH EXISTING. TOPSOIL AND SEED OR SOD AS REQUIRED.

13) NO PLANT, EXCEPT GROUND COVERS AND FOUNDATIONS PLANTS SHALL BE PLANTED LESS THAN TWO (2) FEET FROM EXISTING STRUCTURES AND SIDEWALKS.

14) ALL PLANTS SHALL BE PLANTED IN TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BÁCKFILLING PROGRESSES. NOTHING BUT SUITABLE TOPSOIL FREE OF DRY SOD, STIFF CLAY, LITTER, STONES IN EXCESS OF 1"Ø, ETC., SHALL BE USED FOR PLANTING.

15) SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT THE CENTER OF THE PIT.

16) IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER TO TREES MUST NOT BE CUT BACK, LONG SIDE BRANCHES. HOWEVER, MUST BE SHORTENED. TREES WITH THE CENTRAL LEADER PRUNED WILL BE REJECTED.

17) EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN,

18) ALL TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. ALL TREES SIX (6) INCHES AND OVER IN CALIPER SHALL BE TIED, WHILE SMALLER TREES SHALL BE STAKED. ARBOR TREE TIES AND STAKES SHALL BE INSTALLED AS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ARBOR TREE TIES ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

19) THE TRUNKS OF ALL TREES SHALL BE WRAPPED AS SOON AS POSSIBLE AFTER PLANTING ACCORDING TO STANDARD PROCEDURES AND IF REQUIRED BY TOWNSHIP

20) MULCH FOR PLANTING BEDS SHALL BE DOUBLE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE SPECIFIED ON THE PLANS AND SHALL HAVE NO LEAVES. YOUNG GREEN GROWTH. BRANCHES, TWIGS GREATER IN DIAMETER OF 1/2" WEEDS, SHAVINGS OR FOREIGN MATERIAL SUCH AS STONES, ETC. SHALL BE MIXED WITH THE MULCH. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS WITH A COMPACTED DEPTH OF 3". NO MULCH SHALL BE PLACED AGAINST PLANT STEMS.

21) WATER APPLIED TO SEEDED OR SODDED AREAS, PLANTS OR PLANTED AREAS SHALL BE FREE FROM IMPURITIES INJURIOUS TO VEGETATION AND APPLIED AT A RATE OF FIVE GALLONS OF WATER PER SQUARE YARD OF PLANT PIT.

22) FALL PLANTING HAZARDS: IT IS VERY RISKY TO TRANSPLANT THE FOLLOWING LIST OF TREES BARE ROOT OR B&B IN THE

PLATANUS ACERIFOLIA PRUNUS-ALL STONE FRUITS CARPINUS VARIETIES CORNUS FLORIDA & VARS CRATAEGUS VARIETIES HALESIA KOELREUTERIA

LIQUIDAMBAR STYRACIFLUA

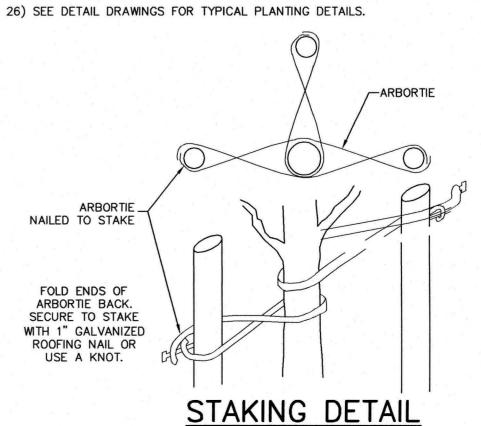
BETULA VARIETIES PYRUS-ALL PEARS QUERCUS-ALL OAKS SALIX-WEEPING VARS STYRAX JAPONICA TILIA TOMENTOSA ZELKOVA VARIETIES LIRIODENDRON TULIPIFERA

THE CONTRACTOR ASSUMES RESPONSIBILITY FOR PLANT SURVIVAL OF THESE MATERIALS IF MOVED DURING THE FALL SEASON.

23) TREES TO REMAIN ON-SITE TO BE SELECTIVELY THINNED AND PRUNED REMOVING ALL DEAD AND DISEASED LIMBS WHILE PROTECTED BY FENCING DURING CONSTRUCTION (SEE DETAIL). FENCE TO BE MAINTAINED DURING CONSTRUCTION BY CONTRACTOR.

24) THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.

25) ALL STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE. ALL PLANT MATERIAL LOCATED WITHIN ANY SIGHT TRIANGLE EASEMENTS SHALL NOT EXCEED A MATURE HEIGHT OF 30" ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL STREET TREES PLANTED IN ANY SIGHT TRIANGLE SHALL BE PRUNED AS MENTIONED ABOVE.



CONSTRUCTION DETAIL NOTES ALL TRAFFIC SIGNS AND PAVEMENT

MARKINGS SHALL CONFORM TO THE CURRENT EDITION OF THE MANUAL O UNIFORM TRAFFIC CONTROL DEVICES

ALL CONSTRUCTION DETAILS SHALL E SUPERCEDED BY APPLICABLE MUNICIPAL, COUNTY OR STATE DETAILS UNLESS OTHERWISE NOTED. STRUCTURAL DETAILS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONL

SHOP DRAWINGS SHALL BE PROVIDED TO THE TOWNSHIP ENGINEER FOR AL WALLS AND STRUCTURAL ELEMENTS PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL PRECAST STRUCTURES PRIOR TO THE ORDERING OF MATERIALS.

DETAILS ASSUME APPROPRIATE LOAD BEARING CAPACITY AND COMPACTION OF SOILS, ACTUAL FIELD CONDITIONS SHALL BE CONFIRMED BY ON-SITE GEOTECHNICAL ENGINEER. RESIDENTIAL DEVELOPMENTS SHALL CONFORM TO DETAILS WITHIN THE CURRENT EDITION OF THE RESIDENTIAL SITE IMPROVEMENT STANDARDS

ALL CONSTRUCTION DETAILS ARE NOT TO SCALE (N.T.S.) UNLESS OTHERWISE

REVISIONS

THIS DRAWING IS FOR PERMIT PURPOSES ONLY NOT FOR CONSTRUCTION UNTIL THIS BOX HAS BEEN CHECKED AND DATED

☐ CHKD BY: ____ DATE: _



THE STATE OF NEW JERSEY REQUIRES NOTIFICATION BY EXCAVATORS. DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE



associates

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Certificate of Authorization: 24GA27951900 COSMOPOLITAN AT

SOMERSET

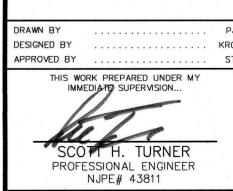
TOWN CENTER 940 EASTON AVENUE FRANKLIN TOWNSHIP SOMERSET COUNTY

BLOCK 385, LOT 2.07 TAX MAP SHEET 83

27.418 ACRES

NEW JERSEY

CONSTRUCTION **DETAILS** (5)



2021.019 DE-5 DATE OF ISSUE AUGUST 16, 2021 REVISION