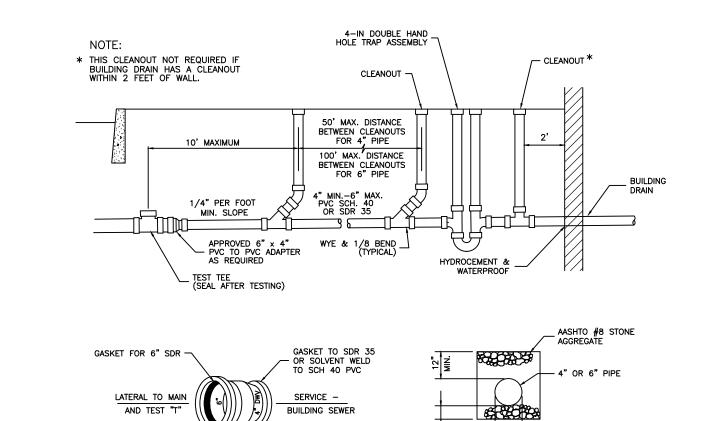
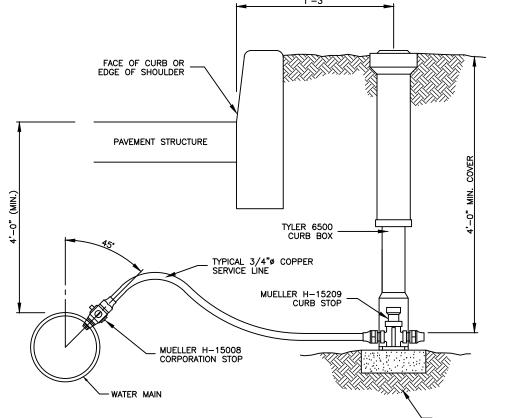


- MATERIALS AND CONSTRUCTION FOR THE PROPOSED BUILDING SHALL CONFORM TO INTERNATIONAL BUILDING CODE STANDARDS, LATEST EDITION.
- 3. CLEAR SIGHT EASEMENTS. AS DELINEATED HEREIN, SHALL BE MAINTAINED BY RESPECTIVE PROPERTY OWNERS FREE OF ALL VEGETATION AND OTHER VISUAL OBSTRUCTIONS GREATER THAN TWO AND ONE-HALF FEET IN HEIGHT AS MEASURED ABOVE THE ROAD GRADE. CLEAR SIGHT EASEMENTS SHALL MEASURE 8 FEET IN BOTH DIRECTIONS ALONG EDGES OF DRIVEWAYS AND THE STREET LINE FROM THEIR POINTS OF INTERSECTION. FUTURE OWNERS OF 630 AND 632 WILLIAM STREET SHALL BE RESPONSIBLE TO MAINTAIN AS DESCRIBED ABOVE PORTIONS OF CLEAR SIGHT EASEMENTS FROM ADJACENT PROPERTIES THAT ENCROACH INTO THEIR RESPECTIVE PROPERTIES. ANY EXISTING TREES OR OTHER VISUAL OBSTRUCTIONS WITHIN PROPOSED CLEAR SIGHT EASEMENTS SHALL BE REMOVED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY CITY OF BETHLEHEM.
- PRIOR TO ANY WORK WITHIN PUBLIC RIGHTS-OF-WAY, PERMITS MUST BE OBTAINED FROM THE CITY OF BETHLEHEM ENGINEERING OFFICE.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ANY AND ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH PA ACT 121 PRIOR TO ANY EXCAVATION.
- 6. CONTOURS AND GRADES DEPICTED HEREIN ARE BASED ON THE CITY OF BETHLEHEM DATUM.
- 7. WATER SERVICE LATERALS SHALL BE 3/4-INCH TYPE 'K' FLEXIBLE COPPER TUBING, WATER SYSTEM MATERIALS AND APPURTENANCES SHALL MEET CITY OF BETHLEHEM AND AMERICAN WATER WORKS ASSOCIATION PERFORMANCE STANDARDS.
- SANITARY SEWER LATERALS SHALL BE 6-INCH DIAMETER SDR-35 PIPE WITH GASKETED BELLS. SANITARY SEWER SYSTEM MATERIALS AND APPURTENANCES SHALL MEET ALL APPLICABLE CITY OF BETHLEHEM AND PennDEP PERFORMANCE STANDARDS.
- CONTRACTOR SHALL USE GENECO E40 TAPPING WYES TO CONNECT NEW SANITARY SEWER LATERALS TO THE EXISTING 8-INCH DIAMETER
- 10. PROPOSED IRON PINS WILL CONSIST OF A 5/8 INCH DIAMETER REINFORCING BAR WITH YELLOW PLASTIC CAP INSCRIBED "KEYSTONE ENG." AND WILL BE SET BY KEYSTONE CONSULTING ENGINEERS, INC. UPON APPROVAL OF THIS SUBDIVISION.
- 11. CONTRACTOR SHALL REMOVE OR ABANDON-IN-PLACE AS APPLICABLE ALL EXISTING ABOVE AND BELOW-GRADE STRUCTURES, SITE IMPROVEMENTS, AND UTILITIES ON THE PROJECT SITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- 12. CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE, RECYCLE OR DISPOSE OF ALL CONSTRUCTION MATERIALS AND WASTE IN ACCORDANCE WITH PennDEP SOLID WASTE MANAGEMENT REGULATIONS CONTAINED IN CHAPTER 25 PA CODE 260.1 ET. SEQ., 271.1 ET. SEQ AND 287.1 ET. SEQ. CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY CONSTRUCTION MATERIALS OR WASTE ON THE PROJECT SITE.
- 13. EROSION AND SEDIMENT POLLUTION CONTROL MEASURES AND PRACTICES INCLUDING BUT NOT LIMITED TO FILTER FABRIC FENCE ROCK CONSTRUCTION ENTRANCE, TOPSOIL STOCKPILES AND TEMPORARY AND PERMANENT SEEDING SHALL BE INSTALLED AND MAINTAINED IN STRICT ACCORDANCE WITH PennDEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL, REVISED MARCH 2000. CONTRACTOR SHALL BE RESPONSIBLE TO IMMEDIATELY EMPLOY ANY AND ALL ADDITIONAL CONTROL MEASURES WHEN AND IF DETERMINED NECESSARY DURING CONSTRUCTION TO PREVENT THE TRANSPORT OF SEDIMENT BEYOND THE LIMITS OF THE SUBJECT PROPERTY.

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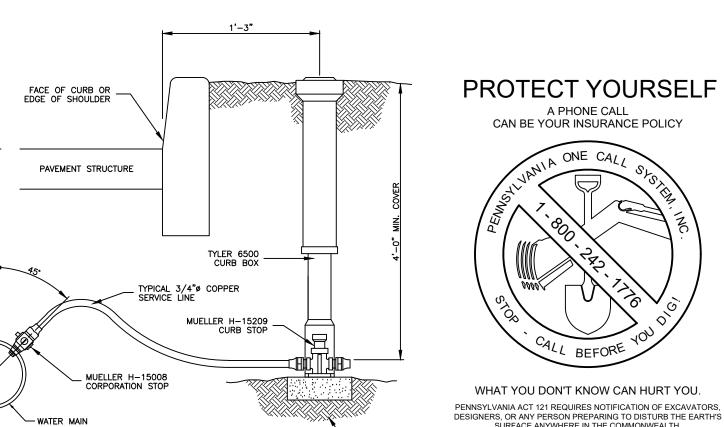


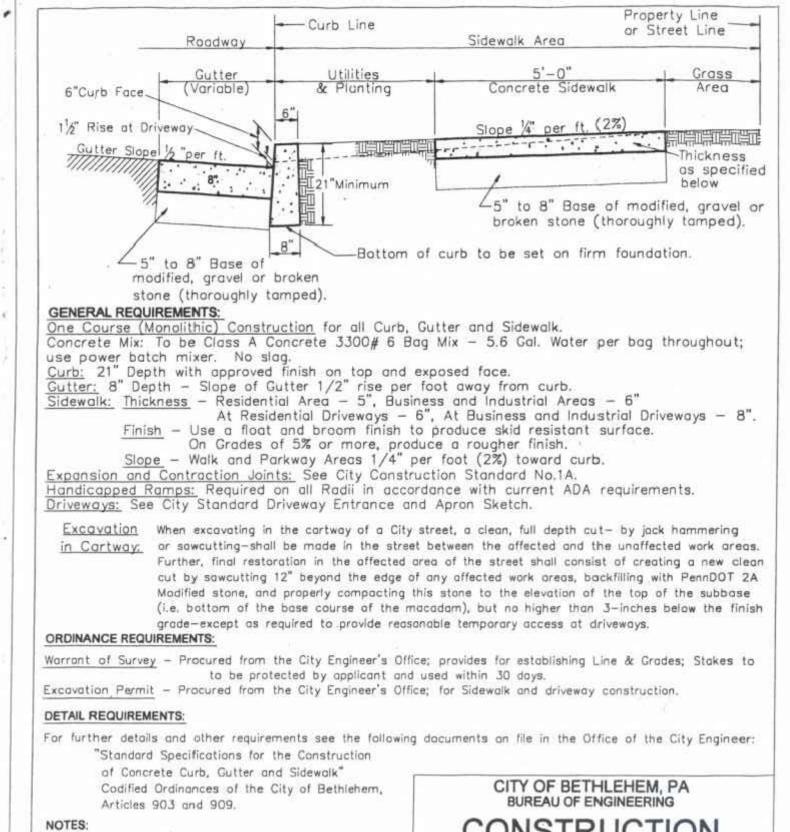
SANITARY SEWER LATERAL DETAIL NO SCALE



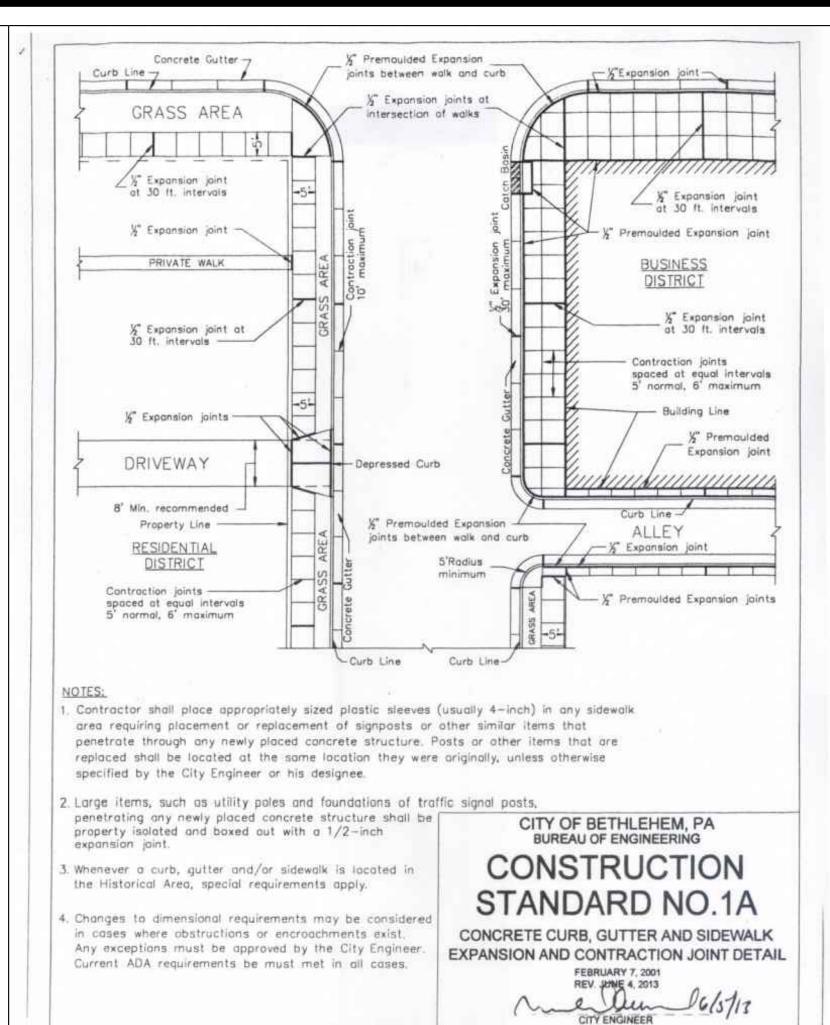
6" x 4" PVC ADAPTER

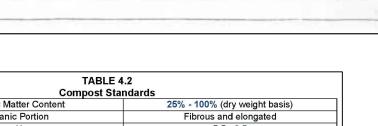
WATER SERVICE CONNECTION DETAIL NO SCALE





CONSTRUCTION STANDARD NO.1 for CONCRETE CURB, GUTTER and SIDEWALK FEBRUARY 7, 2001 REV JUNE 4, 2013 huelden 6/5/13 CITY ENGINEER





80% - 50% pass through 3/8" sieve

5.0 dS/m (mmhos/cm) Maximum

NOTES:
SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

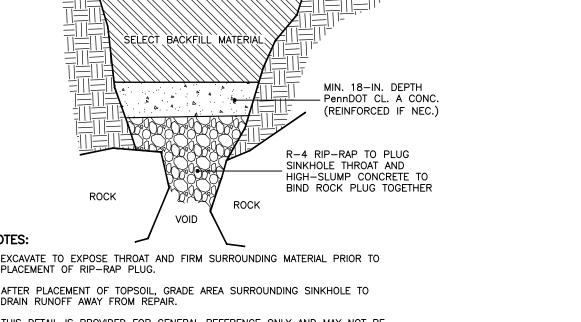
COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS;
PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

Particle Size

Soluble Salt Concentration

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK



+ Whenever a curb, gutter and/or sidewalk is located in

* Changes to dimensional requirements may be considered

Any exceptions must be approved by the City Engineer.

in cases where obstructions or encroachments exist.

Current ADA requirements must be met in all cases.

a Historic District, special requirements may apply.

1. EXCAVATE TO EXPOSE THROAT AND FIRM SURROUNDING MATERIAL PRIOR TO PLACEMENT OF RIP-RAP PLUG.

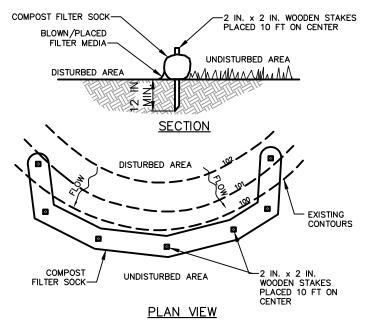
4" TOPSOIL (SEEDED OR SODDED)

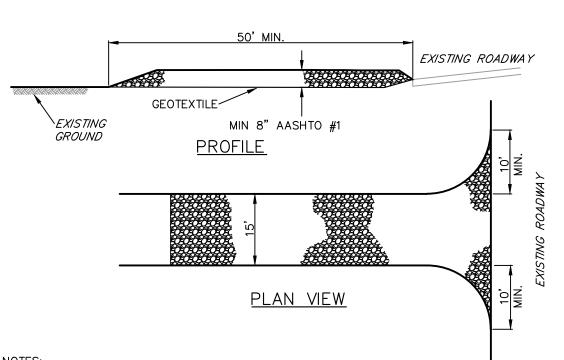
2. AFTER PLACEMENT OF TOPSOIL, GRADE AREA SURROUNDING SINKHOLE TO DRAIN RUNOFF AWAY FROM REPAIR. 3. THIS DETAIL IS PROVIDED FOR GENERAL REFERENCE ONLY AND MAY NOT BE APPLICABLE FOR ALL SINKHOLE REPAIRS. IF A SINKHOLE DEVELOPS, CONSULT

A LICENSED GEOLOGIST OR CIVIL ENGINEER TO INSURE THAT THE SINKHOLE IS REPAIRED PROPERLY. SINKHOLE REPAIR DETAIL NO SCALE

ORANGE FLEXIBLE PLASTIC

CONSTRUCTION FENCING FASTEN TO STAKES USING MIN. 4 HEAVY-DUTY STAPLES OR PLASTIC TIES)





REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY. EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

> ROCK CONSTRUCTION ENTRANCE NOT TO SCALE



TEMPORARY STABILIZATION FORMULA 'E' (AS PER PENNDOT 408, SEC. 804) SPECIES - ANNUAL RYEGRASS: PURITY/GERMINATION: APPLICATION RATE: 10 LBS/1,000 SY FERTILIZER TYPE: FERT. APPLICATION RATE: 100 LBS/1,000 S.Y. LIMING RATE: 410 LBS/1,000 S.Y. TEMPORARY MULCH TYPE: HAY OR STRAW MULCH APPLICATION RATE: 3 TONS/ACRE SEEDING PERIOD: 3/15-10/15

MULCH (PER PDT 408, SEC. 805) TEMPORARY MULCH TYPE: HAY OR STRAW APPLICATION RATE: 3 TONS/ACRE

PERMANENT VEGETATIVE STABILIZATION FORMULA 'B' (AS PER PENNDOT 408, SEC. 804)

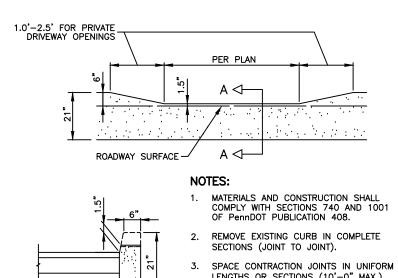
PERENNIAL RYEGRASS 20 CREEPING RED FESCUE 30 98 85 KENTUCKY BLUEGRASS APPLICATION RATE: 21 LBS/1.000 SY FERTILIZER TYPE: FERT. APPLICATION RATE: 210 LBS/1,000 SY LIMING RATE: 2,480 LBS/1,000 SY TEMPORARY MULCH TYPE: MULCH APPLICATION RATE: 3 TONS/ACRE 3/15-6/1, 8/1-10/15 SEEDING PERIODS:

THE CUTOFF DATE FOR HYDROSEEDING IS NOVEMBER 15. SLURRY APPLICATIONS OF SEED USING A CELLULOSE TACKIFIER SHALL INCLUDE A STRAW MULCH BINDER AT A RATE OF 3

TONS PER ACRE.

SOIL RESTORATION: PRIOR TO PERMANENT SEEDING AND STABILIZATION OF LAWN AREAS, CONTRACTOR SHALL RIP, SUBSOIL, SCARIFY, OR OTHERWISE LOOSEN AND PROPERLY AERATE SOIL WITHIN ALL AREAS SUBJECTED TO VEHICLE TRAFFIC OR HEAVY CONSTRUCTION ACTIVITIES DURING CONSTRUCTION.

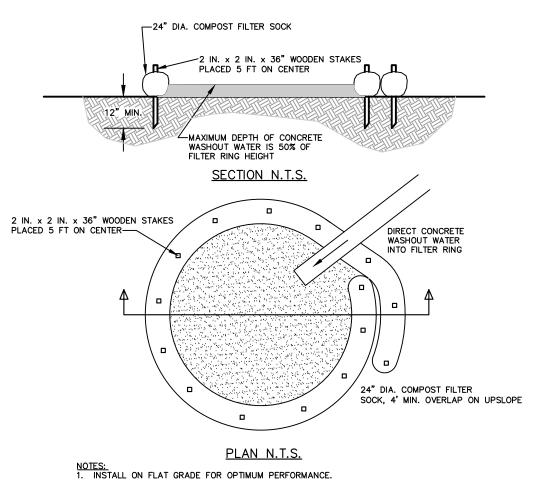
WHEREVER SEED AND MULCH ARE APPLIED BY HYDROSEEDING METHODS. THE SEED AND MULCH SHOULD BE APPLIED IN SEPARATE APPLICATIONS WITH THE SEED BEING APPLIED FIRST



DEPRESSED CEMENT CONCRETE CURB DETAIL

_	ged construction t aluminum housing ensures	Precision optics	• Lumen output:	Comfort optics: 2,200 - 10,800 lumens Precision optics: 1,700 - 16,500 lumens
Opti	est quality ical and electrical compartments d IP66 to ensure dust or moisture	Multiple distribution options available with 2-4 LED modules for a range of different lumen outputs	• Efficacy:	Comfort optics: 103-126 LPW Precision optics: 109-160 LPW
	not interfere with performance		Color temperature:	2700K, 3000K, 3500K, 4000K, 5000K
			• Mounting:	Standard arm, retrofit arm, or wall bracket
		Optional emergency battery back up is integral to the luminaire	 Optical distributions: 	Comfort optics: Type 1, 2, 4, 5 Short and Type 4 Concentrated Downlight, and Precision optics: Type 2, 3 Medium, Type 4, 5 Short, BLC
			Prior to ordering, consult specification sheets on lightingproducts.signify.c for the most current information, notes, and exclusions.	
			Weight: With precision optics ar With comfort optics and	
	Optional integral motion sensor Integral to the luminaire	Comfort optics Comfort optics enhance the user experience by providing a low glare lighting solution	5.9 in 5 in (15.1cm) (12.7cm)	3.4 in (8.7cm)
	Offers energy savings and can enhance sense of security			21.1 in (53.5cm)
	Multiple finish options			
	Black, white, bronze, dark gray and medium gray textured finish options available,		2.4 in (6.0cm)	

POLE MOUNTED AREA LIGHT DETAILS



 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT. 3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.

AND THE MULCH SPRAYED ON TOP OF THE SEED. LENGTHS OR SECTIONS (10'-0" MAX.). PLACE 1/2-INCH PREMOULDED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES AND AT MAXIMUM 30-FOOT INTERVALS. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO CONFORM TO SECTION A-A CROSS-SECTIONAL AREA OF CURB.

STREET 608 PIERC

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1. ERECT APPROVED CONSTRUCTION FENCING AROUND EXISTING TREES AND SHRUBS TO

REMAIN WITHIN AND ADJACENT TO THE CONSTRUCTION AREA IN ACCORDANCE WITH
THIS DETAIL TO PREVENT DAMAGE TO TRUNKS AND COMPACTION OF THE
SURROUNDING SOIL BY CONSTRUCTION EQUIPMENT. 2. INSTALL FENCING IN A SECURE AND TAUT FASHION.

3. WHEREVER PRACTICAL, ERECT FENCING TO ENCOMPASS THE TREE DRIPLINE OR AN AREA WITH A RADIAL DIMENSION EQUAL TO ONE FOOT FOR EVERY INCH OF TUNK CALIPER MEASURED FROM THE TREE TRUNK, WHICHEVER IS GREATER. 4. FENCING SHALL REMAIN IN PLACE AND FUNCTIONAL FOR THE ENTIRE DURATION OF

> TREE PROTECTION FENCING DETAIL NO SCALE

CONSTRUCTION DETAIL COMPOST SOCK WASHOUT