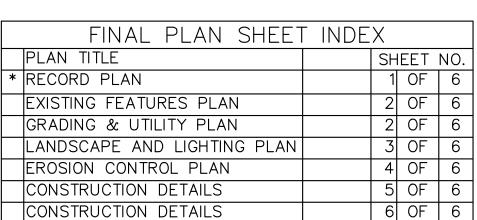


1" = 20'



LAND DEVELOPMENT LOCATED IN THE CITY OF BETHLEHEM WARD 9 BLOCK 12 NORTHAMPTON COUNTY COMMONWEALTH OF PENNSYLVANIA

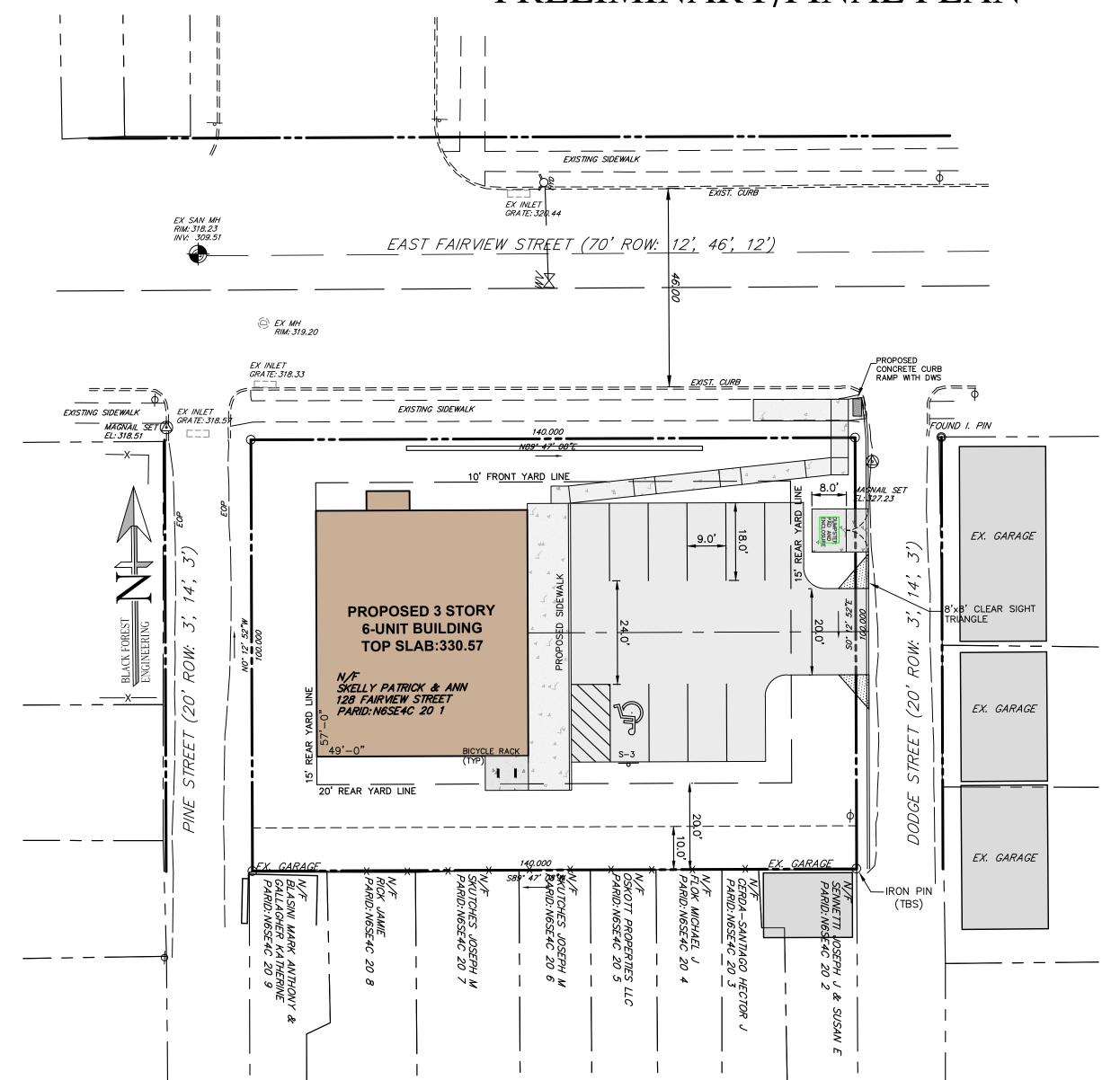
> INVOLVING PARCEL LOCATED AT 128 E. FAIRVIEW STREET

PLAN INTENT

THE APPLICANT WISHES TO CONSTRUCT A SIX (6) UNIT APARTMENT BUIDLING WITH ASSOCIATED OFFSTREÉT PARKING, SIDEWALKS, UTILITIES AND LANDSCAPING

128 E. FAIRVIEW STREET LAND DEVELOPMENT

PRELIMINARY/FINAL PLAN



PARKING REQUIREMENT

1.5 SPACES PER DWELLING 6 UNITS \times 1.5 = 9 SPACES REQ'D (10 PROVIDED)

IMPERVIOUS COVER

EXISTING CONDITION=0 SF

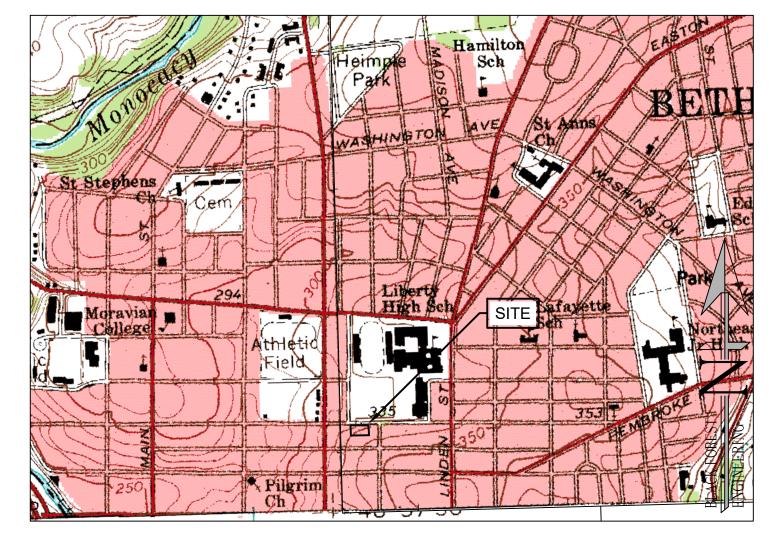
PROPOSED CONDITION=7,065 SF

NOTE: AN INCREASE OF 7,065 SF IS PROPOSED AND THEREFOR ACT 167 APPROVAL IS NOT REQUIRED.

SIGN SCHEDULE						
SYMBOL	LEGEND	QTY.	BLANK SIZE	PENNDOT #		
S-2	RESERVED PARKING & WITH PARKING FINE PLAQUE	0	12 X 18 12 X 18	R7-8 R7-8B		
S-3	SAME AS S-2 WITH VAN ACCESSIBLE PLAQUE AND PARKING FINE PLAQUE	1	12 X 18 12 X 6 12 X 18	R7-8 R7-8A R7-8B		

CICKLATUDE DI OCKO

CERTIFICATION OF O	<u>WNERSHIP</u>
DEPOSE AND SAY THAT I (WE	E) AM (ARE) THE SOLE OWNER(S) OF THE ABOVE PROPERTY IN HE SAME AND THAT THERE ARE NO SUITS OR LIENS PENDING OF.
SIGNATURE OF OWNER	PRINTED NAME OF OWNER
NOTARIZATION SWORN AND SUBSCRIBED BEF	ORE ME THIS DAY
DF	, A.D.
LEGIBLE IMPRESSION OF NOTA	ARY SEAL)
NOTARY PUBLIC	
MY COMMISSION EXPIRES:	
PENNSYLVANIA, WAS APPROVE	F LAND LOCATED IN BETHLEHEM, NORTHAMPTON COUNTY, ED BY THE BETHLEHEM CITY PLANNING COMMISSION.
CHAIRMAN	DATE
PLANNING DIRECTOR	DATE
OF THE OWNER AND, WHERE	ATION PLAN CORRECTLY AND ACCURATELY REPRESENTS THE LANDS APPLICABLE, THE LOTS, BUILDINGS, STREETS, PARKING AREAS, ICTURES AND IMPROVEMENTS SHOWN THEREON.
PROOF OF RECORDING PLAN RECORDED IN THE OFFICE DEEDS OF NORTHAMPTON COL PENNSYLVANIA, UNDER DOCKE	CE OF THE RECORDER OF JNTY.
JN IME DAY OF _	, 20
OF	OF OFFICE THIS DAY
	, 20
RECORDER OF	 DEEDS



LOCATION MAP USGS CATASAUQUA & NAZARETH QUADRANGLE SCALE: 1"=1000'

> "CALL BEFORE YOU DIG" PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776 SERIAL NUMBER:

BFE
BLACK FOREST ENGINEERING, LLC
1903 MAIN STREET NORTHAMPTON, PA 18067

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SEAL:	PROFESSIONAL JOSEPH E. RENTKO ENGINEER PE085609
JOSEPH E. RENT 2455 BLACK FO	

1455 BLACK FOREST DRIVE 10PLAY, PA 18037 170–239–4499					
REV:	DESCRIPTION:	BY	DATE		
PROJECT TITLE:					
128 EACT EAID\/IE\W CT					

120 EAST FAIRVIEW ST. **APARTMENTS**

PROJECT OWNER:

CITY OF BETHLEHEM WARD 9 BLOCK 12 NORTHAMPTON COUNTY

PENNSYLVANIA

RECORD PLAN

SCALE:	DATE:	DRAWN:	CHECKED:
1"=20'	8/30/25	JER	JER
PROJECT NO.	1	ng no. F 6	

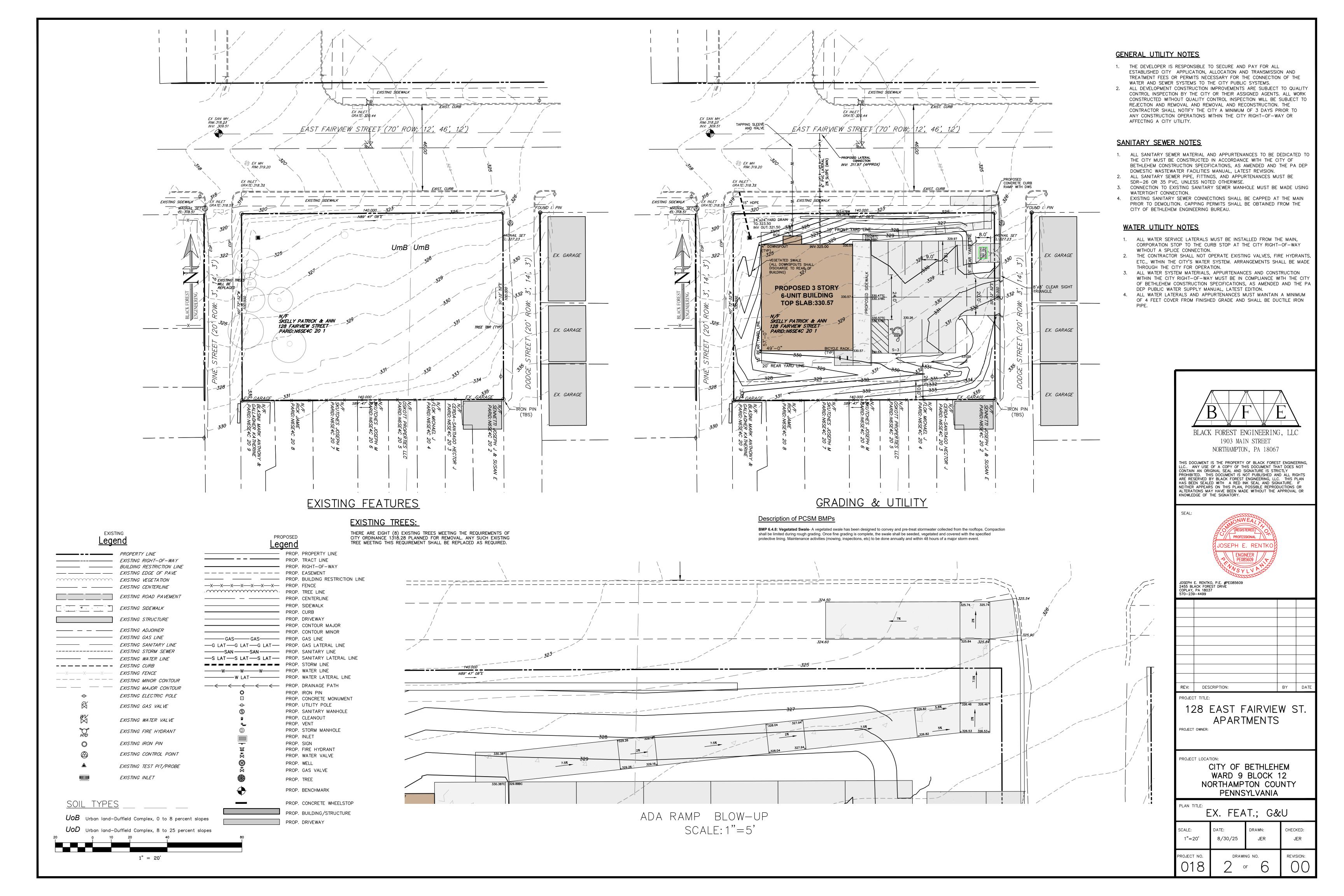
RECORD NOTES

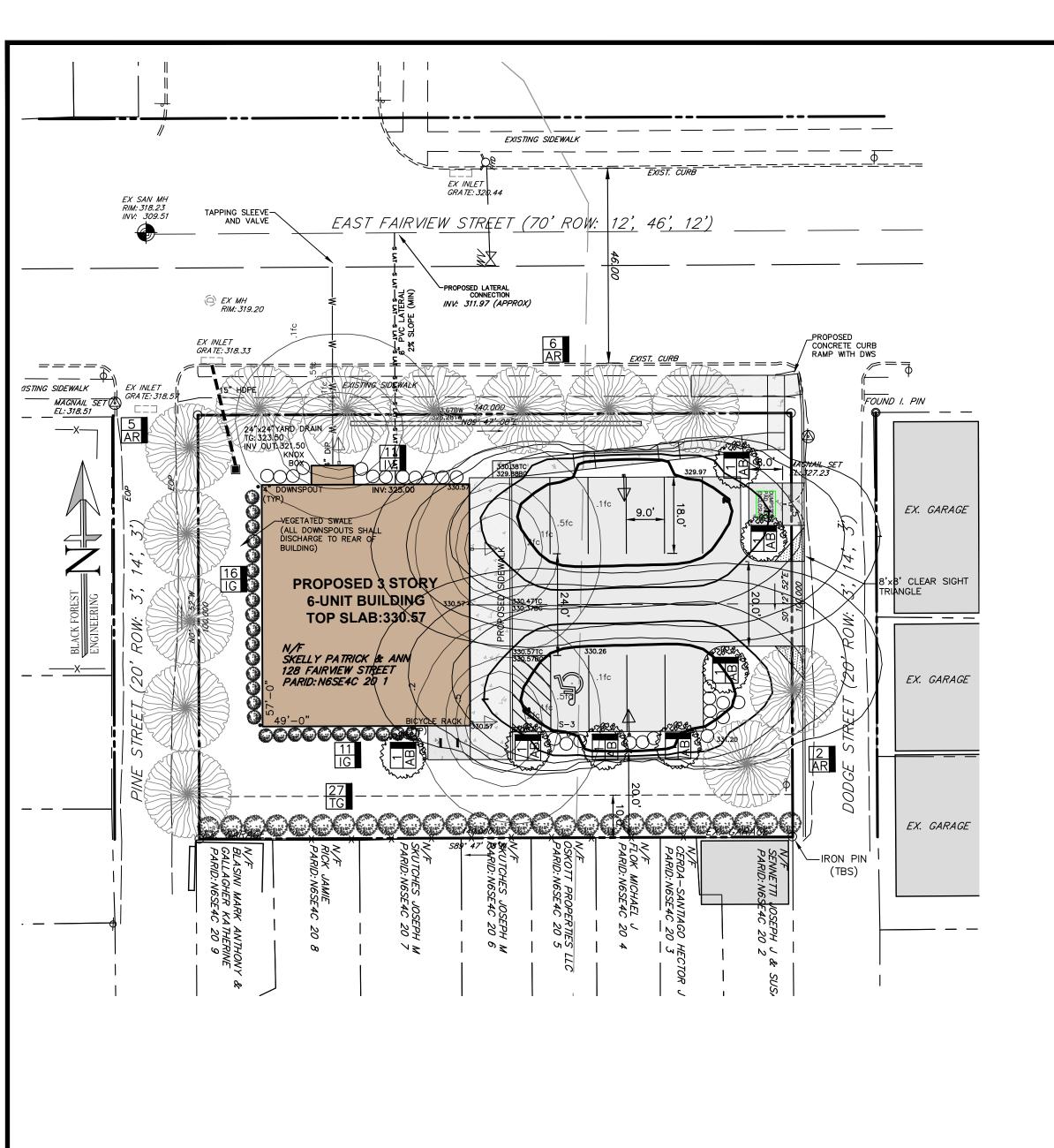
PLANNING

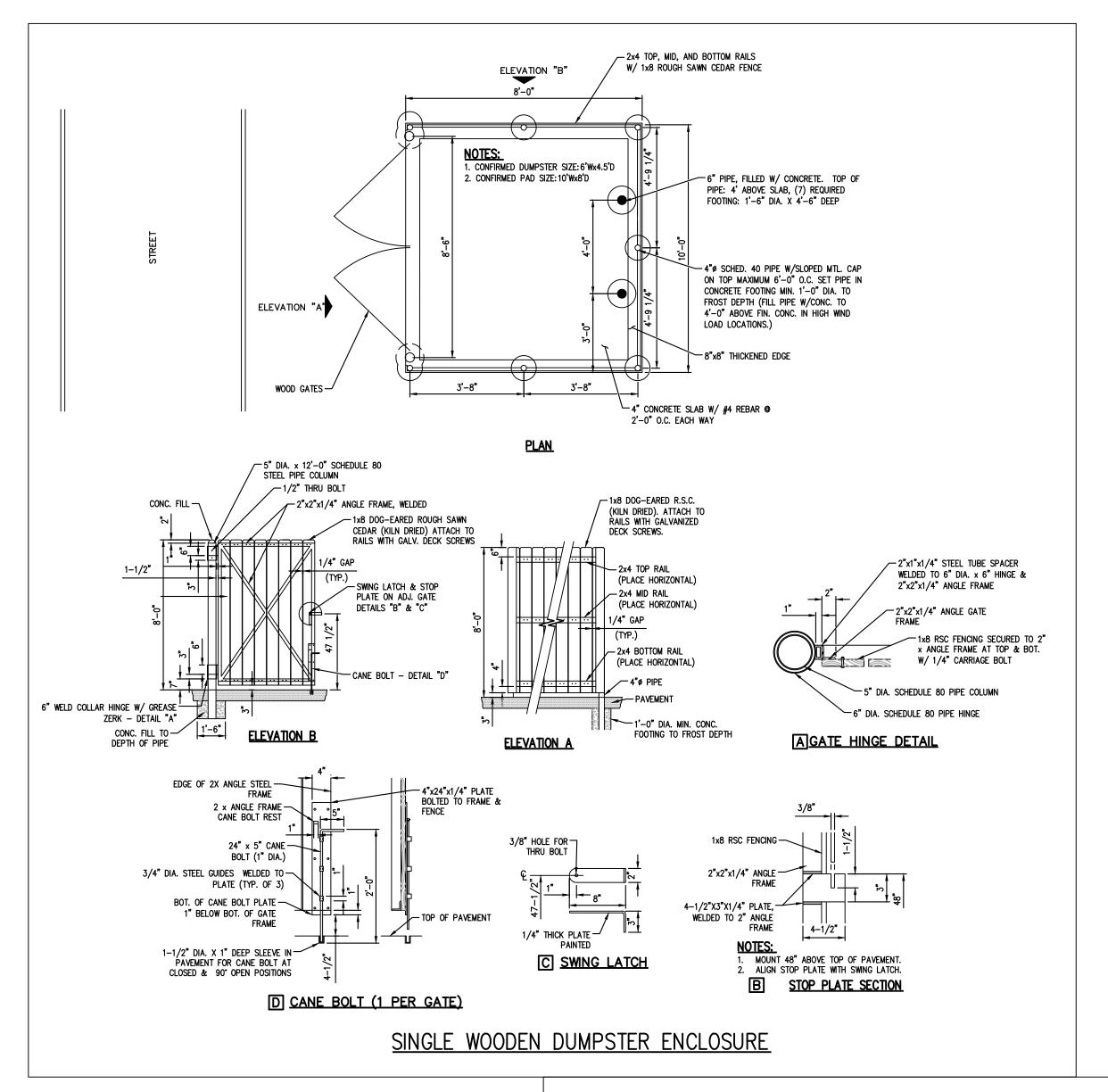
- EACH LOT SHOWN IS SUBJECT TO ALL EASEMENTS VISIBLE, OR ON RECORD, OR AS REQUIRED BY A UTILITY TO SERVE SAID LOT AT SUCH TIME AS THE
- 2. ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH THE CITY OF BETHLEHEM STANDARDS AND SPECIFICATIONS AND THE APPROPRIATE PUBLIC UTILITY AUTHORITIES.

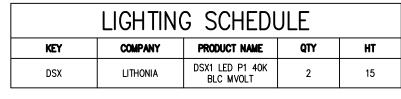
DATE

- 3. THE SITE WAS EVALUATED FOR WETLANDS AND WATERCOURSES AND IT WAS DETERMINED THAT WETLANDS AND WATERCOURSES DO NOT EXIST ON THE SITE.
- 4. THERE ARE NO FEMA DELINEATED 100-YR FLOODPLAINS OR WATERCOURSES ON OR NEAR THIS PROPERTY.
- ALL LOTS SHALL HAVE A TEN (10) FOOT DRAINAGE, GRADING AND UTILITY EASEMENT ALONG LOT LINES ADJOINING NEIGHBORS. THE DRAINAGE EASEMENT PROVIDED FOR THE FLOW OD STORM WATER ACROSS LOTS, AND MAY NOT BE ALTERED WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER. NO OBSTRUCTIONS SUCH AS PLANTING BERMS OR FENCES MAY BE INSTALLED IN THE DRAINAGE EASEMENT AREAS WITHOUT SUFFICIENT PROVISION FOR THE PASSAGE OF STORM WATER AND ANY SUCH PROPOSED PROVISION SHALL BE APPROVED IN WRITING BY THE CITY ENGINEER.
- 6. ACTUAL UTILITY CONNECTION POINTS SHALL BE VERIFIED BY SITE CONTRACTOR PRIOR TO CONSTRUCTION.
- 7. ALL LOTS SHALL BE LAID OUT AND GRADED TO PREVENT CROSS LOT DRAINAGE AND TO PROVIDE POSITIVE DRAINAGE AWAY FROM PROPOSED BUILDING
- 8. ALL CITY PERMITS MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
- RUNOFF FROM ALL ON-SITE IMPERVIOUS AREAS SHALL NOT BE DIRECTED INTO THE PUBLIC SANITARY SEWER, ACROSS THE SIDEWALK AREA WITHIN THE PUBLIC RIGHT-OF-WAY, OR ONTO ADJOINING PROPERTIES, SECTION 1753.08 B.4 OF THE CITY PROPERTY REHABILITATION & MAINTENANCE CODE.
- 10. ALL LATERAL SANITARY SEWER PIPING IS TO BE SCH 40 OR SDR-26 PVC PIPING UNLESS OTHERWISE NOTED..
- 11. WORK TO BE PERFORMED ONSITE, SHALL BE DONE IN ACCORDANCE WITH THE IBC.
- 12. ANY RETAINING WALL 4 FEET OR GREATER IN HEIGHT SHALL HAVE A DESIGN PREPARED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PENNSYLVANIA AND SHALL BE SUBMITTED AT THE TIME OF BUILDING PERMIT APPLICATION TO BE REVIEWED AND APPROVED BY AN APPROVED THIRD PARTY REVIEWER. THE WALL SHALL BE DESIGNED TO BE CONTAINED COMPLETELY WITHIN THE APPLICANT'S PROPERTY OR AN EASEMENT SHALL BE ACQUIRED AND INDICATED ON THE RECORD PLAN TO ALLOW FOR THE CONSTRUCTION OF ANY PORTION OF THE WALL AND/OR WALL TIE BACKS TO BE CONSTRUCTED ON THE ADJOINING PROPERTY.
- 13. ALL PAVEMENT MARKINGS MUST BE THERMOPLASTIC PAVEMENT MARKINGS.
- 14. THE PROJECT HAS AN APPROVED PLANNING MODULE FOR 6-UNITS, SEE DEP CODE# (2-.....).
- 15. THE CITY OF BETHLEHEM FIRE DEPARTMENT SHALL APPROVE THE FINAL LOCATION OF THE KNOX BOX. THE PROPOSED UNITS WILL BE INDIVIDUALLY SPRINKLERED AND THEREFORE A FIRE DEPARTMENT CONNECTION (FDC), AND POST INDICATING VALVE (PIV) HAVE NOT BEEN PROPOSED.
- 16. ANY CHANGE IN THE LOCATION OF THE FIRE DEPARTMENT CONNECTION AND/OR KNOX BOX MUST BE APPROVED BY THE CITY OF BETHLEHEM FIRE
- 17. CHAPTER 33 OF THE IFC "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" SHALL BE ENFORCED FOR THE DURATION OF THE CONSTRUCTION PROJECT.
- 18. BY SUBMISSION OF THESE PLANS THE ENGINEER ON RECORD CERTIFIES THAT THESE PLANS ARE IN COMPLETE CONFORMANCE WITH THE CITY OF BETHLEHEM STORMWATER MANAGEMENT ORDINANCE.
- 19. IN ORDER TO MAINTAIN CONTINUITY BETWEEN PLAN REVISIONS, ANY CHANGES TO A PREVIOUS PLAN SUBMISSION SHALL BE FLAGGED WITH A TRIANGLE. ANY CHANGES NOT FLAGGED MAY BE CONSIDERED NOT APPROVED. FLAGGED CHANGES SHALL BE REFERENCED TO THE APPROPRIATE REVISION DATE DATE IN
- 20. ACCURATE AS-BUILT PLANS SHALL BE KEPT UP TO DATE DURING THE CONSTRUCTION PROCESS. AT THE COMPLETION OF THE PROJECT RECORD DRAWINGS SHALL BE DEVELOPED FROM THE AS-BUILT PLANS AND SUBMITTED TO THE CITY ENGINEER'S OFFICE. ALL FINAL DRAWINGS SHALL SHOW NORTH AMERICAN DATUM (NAD) 1983 STATE PLANE COORDINATES IN FEET (PA SOUTH, FIPS ZONE 3702) AND THE DIGITAL FILE SHALL BE IN STATE PLANE FEET COORDINATES AS APPLICABLE. THE HARD COPY OF THE RECORD DRAWINGS SHALL BE IN THE FORM OF MYLAR COPY. THE ENGINEER OF RECORD SHALL CERTIFY (IE PE STAMPED AND SIGNED) THAT THE RECORD DRAWINGS COMPLY SUBSTANTIALLY WITH THE APPROVED PLAN AND THAT THEY CONFORM TO INDUSTRY STANDARDS. ALL DIGITAL FILES RESIDE ON PC COMPATIBLE CD ROM CONTAINING THE DIGITAL REPRESENTATION OF THE FINAL PLANAS PRESENTED ON THE TWENTY-FOUR (24) INCH BY THIRTY-SIX (36) INCH SHEETS. THE DIGITAL MAP SHALL BE AUTOCAD COMPATIBLE. ALL LAYERS INCLUDED IN THE DIGITAL MAPS SHALL BE THE STANDARDIZED LAYERS PREPARED AND UTILIZED BY THE CITY OF BETHLEHEM TO ENSURE COMPATIBILITY WITH THE CITY'S EXISTING CAD STANDARDS AND AS DESCRIBED IN THE APPENDIX A OF THE CITY'S SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.
- 21. THE CURRENT LANDOWNER SHALL BE RESPONSIBLE TO ENSURE THAT THE HITCH, RACK OR LOCKER CONTINUES TO BE AVAILABLE AND IS WELL MAINTAINED AND IS REPLACED IF DAMAGED OR REMOVED.

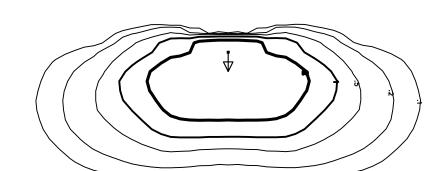


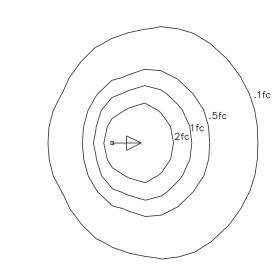






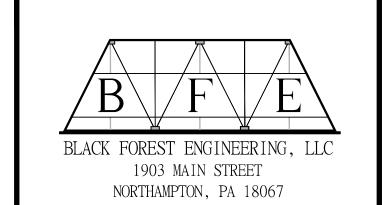
PROPOSED PARKING/STREET LIGHTS MODEL: DSX1 LED P1 40K BLC MVOLT (OR EQUAL) 15FT POLE *NOTE: ALL LIGHT SOURCES TO BE SHIELDED.





LIGHTING SCHEDULE			•
KEY	COMPANY	PRODUCT NAME	QTY
ARC	LITHONIA	ARC 1 LED P1 30K	2

PROPOSED BUILDING LIGHTS MODEL: ARC 1 LED P1 30K (OR EQUAL) 10FT HT



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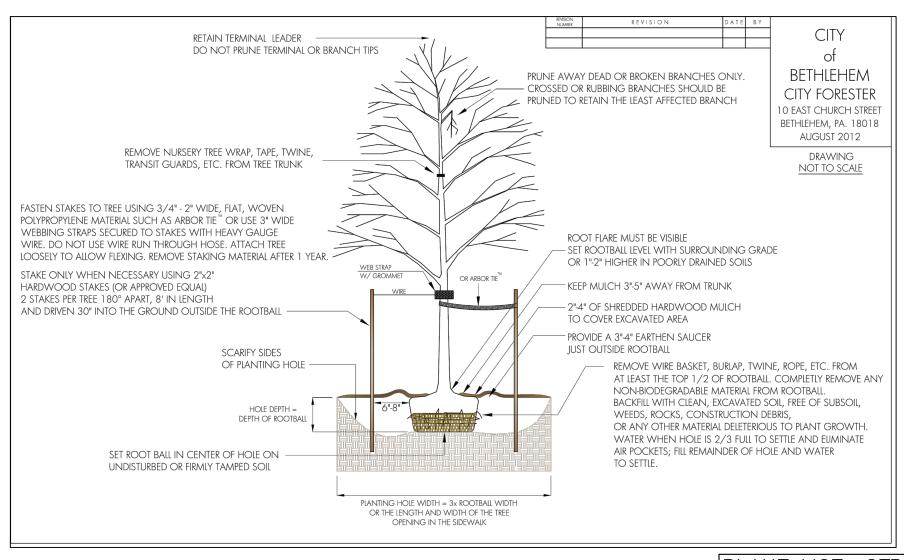
SEAL:

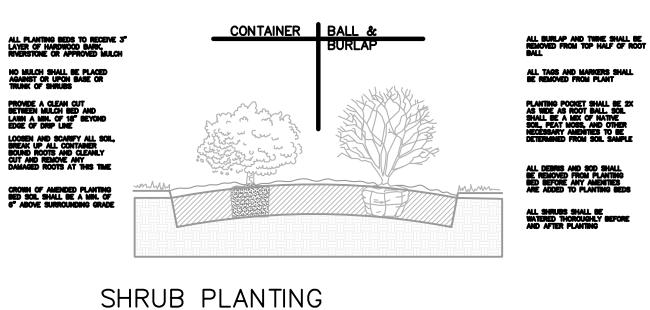
JOSEPH E. RENTKO, P.E. #PE085609 2455 BLACK FOREST DRIVE COPLAY, PA 18037 570-239-4499

REV: DESCRIPTION:

PROJECT TITLE:

PROJECT OWNER:





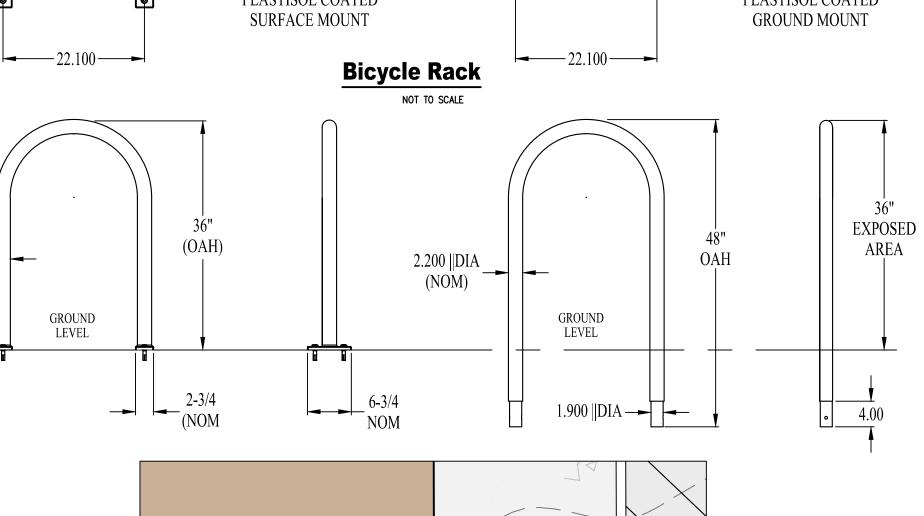
NOT TO SCALE <u>NOTES</u>

B&B

CONT.

1. REFER TO SITE PLAN FOR LANDSCAPED AREAS.

NOT TO SCALE U-RACK CLASSIC U-RACK CLASSIC PLASTISOL COATED PLASTISOL COATED SURFACE MOUNT **GROUND MOUNT** Bicycle Rack NOT TO SCALE **EXPOSED** 2.200 ||DIA (OAH) AREA 2.200 ||DIA (NOM) (NOM) GROUND GROUND LEVEL LEVEL 2-3/4 6-3/41.900 ||DIA -



Notes

1. No soil disturbance or compaction, construction materials, traffic, burial pits, trenching or other land

Include the following notes on the site or grading plan in addition to the landscape plan when applicable:

disturbance is allowed in the tree protection zone unless indicated on the plan.

- 2. Barricades must be installed prior to any destruction and/or construction activity.
- 3. The root protection zone shall be the area encompassed by a circle with a radius extending 1.25 ft.
- from the trunk of the tree for every inch DBH (diameter at breast height) of the tree. 4. Violations of tree protection requirements are subject to penalty per City ordinance 5. All trees on public property are protected by ordinance: no pruning, root pruning of roots over one
- inch in diameter, and/or tree removal is to be performed without a permit and work must be performed by a City licensed tree contractor.
- 6. All plant materials are to conform to the American Standard for Nursery Stock, Latest Edition, American Nursery and Landscape Association.
- 7. Street and parking lot trees shall be a minimum of 14' in height and have a single straight trunk with the first lateral branch at 7' above the root ball. Trees with an upright branching habit, such as zelkova, may have the first lateral branch at 6' above the root ball.
- 8. All landscaping shall conform to the current edition of the Arboricultural Specifications and Standards of Practice of the City of Bethlehem.

PLANT LIST: STREET & PARKING LOT TREES

TG THUJA STANDISHI X PLICATA / THUJA GREEN GIANT

ALL TREES AND SHRUBS SHALL BE MATCHES, IN FORM, IN THEIR VARIETY.

IV | ITEA VIRGINICA/ LITTLE HENRY

	KEY BOTANIC / COMMON NAME		SIZE	ROOT CONDITION	QUANTITY	
	AB	ACER BUERGERIAUM / TRIDENT MAPLE	2"-2.5" CAL.	B&B	7	
	AR	ACER RUBRUM/ OCTOBER GLORY	2"-2.5" CAL.	B&B	13	
	PLAN ⁻	T LIST: BUFFER PLANTS				
	KEY	BOTANIC / COMMON NAME	SIZE	ROOT CONDITION	QUANTITY	
)	VP VIBURNUM X PRAGENSE / PRAGENSE VIBURNUM		7 LB	B&B	14	

PLAN	LIST: FOUNDATION PLANTS			
KEY	BOTANIC / COMMON NAME	SIZE	ROOT CONDITION	QUANTITY
IG	ILEX GLABRA / SHAMROCK	5 LB	CONT.	27

MIN. 6' HT.

REQUIRED LANDSCAPING:

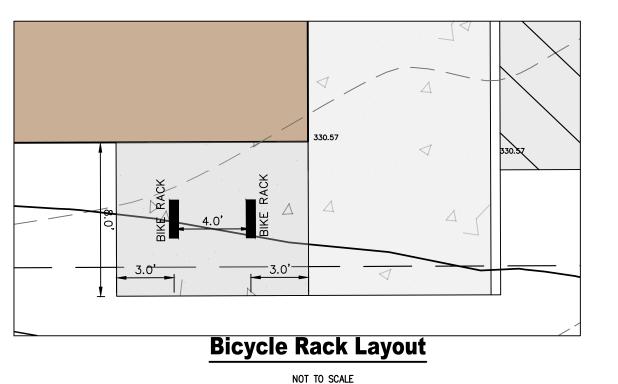
STREET TREES:
FAIRVIEW STREET =140 LF FRONTAGE (1 TREE REQD PER 30 LF); 4.67
TREES REQD; 5 PROVIDED (3 PROPOSED) PINE STREET =100 LF FRONTAGE (1 TREE REQD PER 30 LF); 3.33 TREES REQD; 3 PROVIDED (3 PROPOSED) DODGE STREET =100 LF FRONTAGE (1 TREE REQD PER 30 LF); 3.33 TREES REQD; 3 PROVIDED (3 PROPOSED)

1. LANDSCAPE AREAS EQUAL TO 10 PERCENT OF THE OFFSTREET PARKING AREA SHALL BE PROVIDED. APPROX PARKING AREA=2,890 SF REQ'D LANDSCAPE AREA=289 SF

2. LANDSCAPE AREAS EQUAL TO 10 PERCENT OF THE MULTIFAMILY BUILDING AREA SHALL BE PROVIDED. APPROX BUILDING AREA=2,793 SF REQ'D LANDSCAPE AREA=279 SF

TOTAL REQ'D LANDSCAPE AREA=568 SF PROVIDED LANDSCAPE AREA=>600 SF

3. ONE (1) TREE PER 15 PARKING SPACES; 1 TREES REQUIRED; 4. EIGHT (8) TREES REMOVED MEETING THE CRITERIA FOR REPLACEMENT; 8



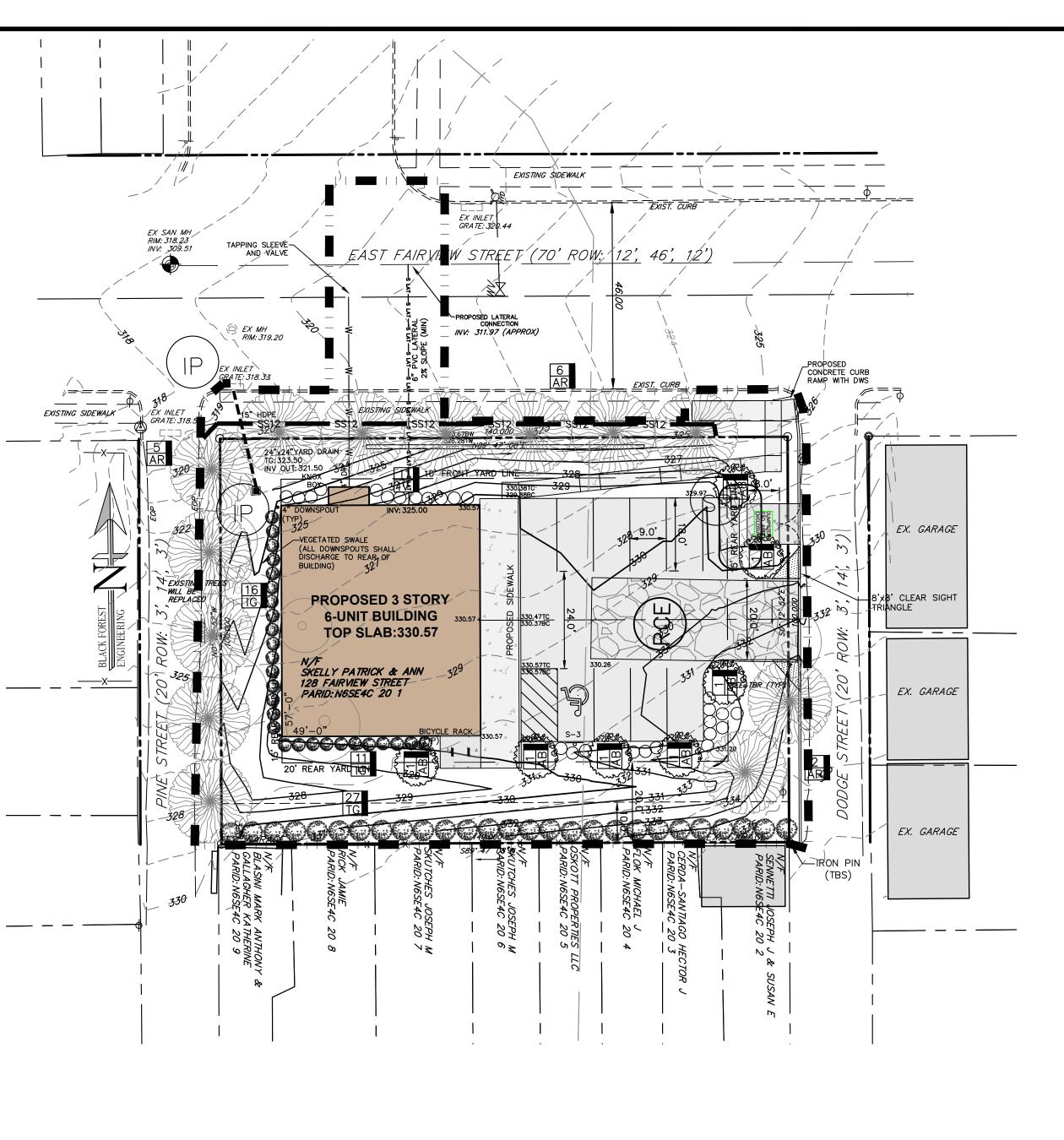
PROJECT LOCATION: CITY OF BETHLEHEM WARD 9 BLOCK 12 NORTHAMPTON COUNTY PENNSYLVANIA LICHTING DA LANDSCADING

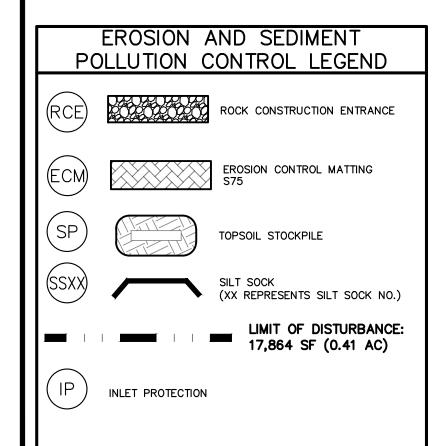
LIGHTING & LANDSCAPING						
SCALE: 1"=20'	DATE: 8/30/25	DRAWN: JER	CHECKED: JER			
PROJECT NO.	7	NG NO.	REVISION:			

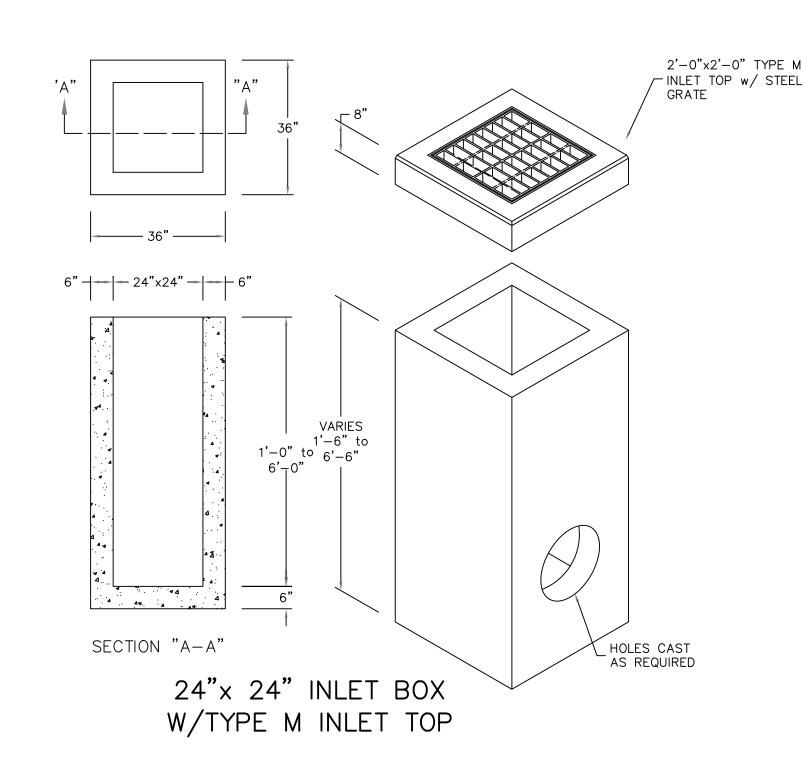
128 EAST FAIRVIEW ST.

APARTMENTS

DATE







CONSTRUCTION NOTES:

- 1. All grading shall be done in accordance with the City of Bethlehem.
- 2. No earthmoving or grading activities may take place until a grading permit is granted by the City of Bethlehem.
- 3. The City Engineer and/or staff may enter the property to inspect all grading and construction activities on the site.
- 4. At least 7 days prior to any earth disturbance activities, the operator shall notify the City and invite all contractors involved in those activities, and the landowner to an
- 5. At least 7 days prior to any earth disturbance activities, the operator shall provide notice in writing to the City of Bethlehem that earth disturbance activities will be
- 6. Temporary and permanent seeding shall be in accordance with requirements on the details. Compost Filter Socks shall be installed downslope of all topsoil stockpiles as indicated in the Topsoil Stockpile detail.
- a. Topsoil pile locations may be adjusted to fit the contractor schedule as long as the silt sock is placed downslope of the pile locations.
- b. Prior to any seeding and lime and fertilize application, a soil test shall be performed to determine the pH factor. Additional lime and fertilizer may be required.
- 6. All disturbed areas shall be immediately stabilized if earth disturbance/construction has ceased. Disturbed slopes of 3:1 or greater shall be stabilized with erosion control matting.
- 7. Soil compaction and vehicle traffic shall be kept to a minimum at areas designated for sanitary absorption or stormwater infiltration BMPs.
- 8. Topsoil should be stripped and stockpiled prior to all earthwork. Only strip the amount of topsoil necessary to perform earthwork. All disturbed areas shall be stabilized immediately if disturbance has ceased.
- 9. On a daily basis, the Contractor shall inspect and clean any sediment that is tracked onto existing roads.
- 10. All erosion control facilities shall be inspected after every runoff event and on a weekly basis, any necessary repairs must be made immediately.
- 11. An area shall be considered to have achieved final stabilization when it has a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding or other movements.
- 12. NAGS75 matting to be applied to all proposed 3:1 slopes.

SEQUENCE OF CONSTRUCTION

- 1. At least 7 days before starting any earth disturbance activities, the operator provide written notification to the City of Bethlehem and shall invite all contractors involved in those activities, appropriate municipal officials, the ESPC plan preparer and the landowner to an on-site meeting.
- 2. At least 3 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call System, Inc. shall be notified at 1-800-242-1776 for the location of existing
- 3. Flag and mark the Limits of Disturbance. No grading or earthmoving may take place beyond the Limits of Disturbance.
- 4. Install Rock Construction Entrance (RCE) off of Dodge Street where indicated on the Plan. This shall be the only ingress and egress from the site. Any sediment tracked onto the public roadway shall be collected and
- returned to the site by the end of each workday. Any sediment tracked onto the public roadway during RCE construction shall be cleaned immediately.
- 5. Install perimeter compost filter socks at locations indicated on plan and per details. 6. Remove existing trees. Strip topsoil and stockpile locations indicated on the Plan.
- 7. Begin bulk earthwork for the building pad, swale and parking lot. Fill should be compacted in layers so as to minimize sliding, slumping and erosion of soil. Erosion Control matting shall be installed on any graded
- 8. Begin building construction, utility connection installation, and binder. Complete final paving (wearing course) once site work is substantially complete.
- 9. Upon completion of proposed improvements, any temporary staging area shall be restored to existing condition. Proposed landscaping shall be installed upon completion of building.
- 10. After the site is stabilized, remove E&S BMPs. Immediately stabilize any areas disturbed by the removal of the erosion and sediment pollution controls and plant street trees. An area shall be considered to have achieved final stabilization when it has a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding or other movements.

Include the following notes on the site or grading plan in addition to the landscape plan when applicable:

- 1. No soil disturbance or compaction, construction materials, traffic, burial pits, trenching or other land
- disturbance is allowed in the tree protection zone unless indicated on the plan. 2. Barricades must be installed prior to any destruction and/or construction activity.
- 3. The root protection zone shall be the area encompassed by a circle with a radius extending 1.25 ft.
- from the trunk of the tree for every inch DBH (diameter at breast height) of the tree. 4. Violations of tree protection requirements are subject to penalty per City ordinance 5. All trees on public property are protected by ordinance: no pruning, root pruning of roots over one inch in diameter, and/or tree removal is to be performed without a permit and work must be performed
- by a City licensed tree contractor. 6. All plant materials are to conform to the American Standard for Nursery Stock, Latest Edition,
- American Nursery and Landscape Association. 7. Street and parking lot trees shall be a minimum of 14' in height and have a single straight trunk with
- the first lateral branch at 7' above the root ball. Trees with an upright branching habit, such as zelkova, may have the first lateral branch at 6' above the root ball.
- 8. All landscaping shall conform to the current edition of the Arboricultural Specifications and Standards of Practice of the City of Bethlehem.

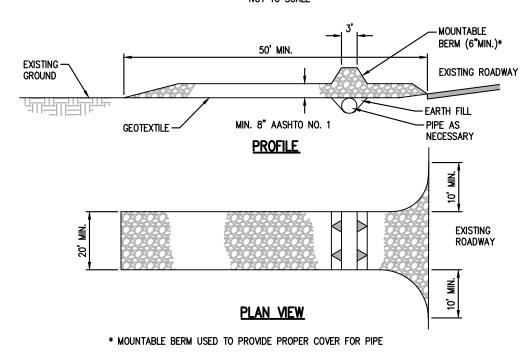
MULCHING—Mulch absorbs rainfall impact, increases the rate of infiltration, reduces soil moisture loss due to evaporation, moderates soil temperatures, provides a suitable environment for germination, and protects the seeding from intense sunlight. All seeded areas should be mulched or blanketed to minimize the potential for failure to establish an adequate vegetative cover. Mulching may also be used as a temporary stabilization of disturbed areas in non-germinating seasons.

Apply mulches at the rates shown in table 11.6

Straw and hay mulch should be anchored immediately after application to prevent being windblown. A tractor—drawn implement may be used to crimp the straw or hay into the soil(about 3 inches). This method should be limited to slopes no steeper than 3H:1V. The machinery should be operated on the contour. (Note: Crimping of hay or straw by running over it with tracked machinery is not recommended.

Table 11.6. Mulch Application Rates						
	Application Rate (Min.)					
Mulch Type	Per Acre	Per 1,000 sq. ft.	Per 1,000 sq.yd.	Notes		
Straw	3 tons	140 lb.	1,240 lb.	Either wheat or oat straw, free of weeds, not chopped or finely broken		
Hay	3 tons	140 lb.	1,240 lb.	Timothy, mixed clover and timothy or other native forage grasses		
Wood Chips	4-6 tons	185-275 lb.	1,650-2,500 lb.	May prevent germination of grasses and legumes		
Hydromulch	1 ton	47 lb.	415	See limitations above		

Standard Construction Detail # 3-1 ROCK CONSTRUCTION ENTRANCE



General Notes:

- I. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF
- 2. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK
- 3. 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
- 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.

PROP. SIGN PROP. FIRE HYDRANT PROP. WATER VALVE PROP. WELL PROP. GAS VALVE PROP. BENCHMARK

Legend

PROP. TRACT LINE

---- PROP. CENTERLINE

—— GAS——— PROP. GAS LINE —G LAT—G LAT— PROP. GAS LATERAL LINE

PROP. STORM LINE

——←—←—← PROP. DRAINAGE PATH

—S LAT—S LAT—S LAT— PROP. SANITARY LATERAL LINE

— — — — — — PROP. EASEMENT

—X—X—X—X—X—X—X— PROP. FENCE PROP. TREE LINE

— PROP. PROPERTY LINE

PROP. SIDEWALK

PROP. DRIVEWAY

PROP. CONTOUR MAJOR

PROP. CONTOUR MINOR

PROP. IRON PIN

PROP. UTILITY POLE PROP. SANITARY MANHOLE

PROP. STORM MANHOLE

PROP. CLEANOUT

PROP. VENT

PROP. INLET

PROP. CONCRETE MONUMENT

PROP. CONCRETE WHEELSTOP

PROP. BUILDING/STRUCTURE

PROP. DRIVEWAY

PROP. CURB

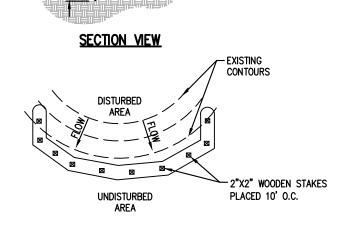
PROP. RIGHT—OF—WAY

----- PROP. BUILDING RESTRICTION LINE

Standard Construction Detail # 4-1 COMPOST FILTER SOCK

12" MIN

~ 2"X2" WOODEN STAKES BROWN /PLACED -FILTER MEDIA UNDISTURBED AREA



PLAN VIEW

General Notes:

- 1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (SEE FIGURE 4.1 OF THE PA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL, MAR. 2012).
 MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN OF FIGURE 4.2 OF THE PA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL (MAR. 2012). STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
- 2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS. 3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 4. 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 5. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS: PHOTODEGRADABLE SOCKS AFTER 1
- YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S 6. 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.

COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)	
MATERIAL CHARACTERISTICS	PHOTO — DEGRADABLE	PHOTO — DEGRADABLE	BIO – DEGRADABLE	PHOTO — DEGRADABLE	PHOTO — DEGRADABLE	
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"	
TENSILE STRENGTH		26 psi	26 psi	44 psi	202 psi	
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.	
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS	
		TW0-PLY	SYSTEMS		ļ.	
			HDPE BIAXIAL NET			
ININED CO	MITAINMENT NETTING		CONTINUOUSLY WOUND			
INNER CC	INNER CONTAINMENT NETTING			FUSION-WELD JUNCTURES		
			3/A" V 3/A" MAY ADEDTIDE SITE			

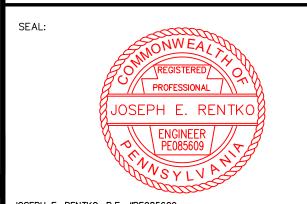
3/4" X 3/4" MAX. APERTURE SIZE COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER & NON-WOVEN FLEECE MECHANICALLY OUTER FILTRATION MESH FUSED VIA NEEDLE PUNCH) 3/16" MAX. APERTURE SIZE

SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL (MAR. 2012). COMPOST SHALL MEET THE FOLLOWING STANDARDS:

TABLI COMPOST S	= ':=
ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT BASI
ORGANIC PORTION	FIBROUS AND ELONGATED
рН	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30%-50% PASS THROUGH 3/8 SIEVE
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMU



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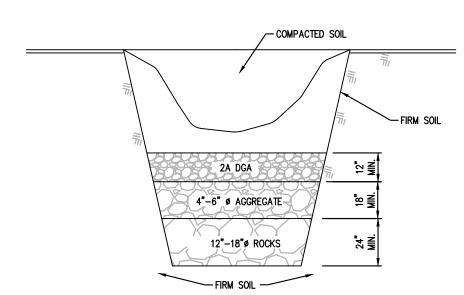
JOSEPH E. RENTKO, P.E. #PE085609 2455 BLACK FOREST DRIVE COPLAY, PA 18037 570-239-4499

REV: DESCRIPTION: PROJECT TITLE: 128 EAST FAIRVIEW ST.

APARTMENTS PROJECT OWNER:

PROJECT LOCATION: CITY OF BETHLEHEM WARD 9 BLOCK 12 NORTHAMPTON COUNTY PENNSYLVANIA

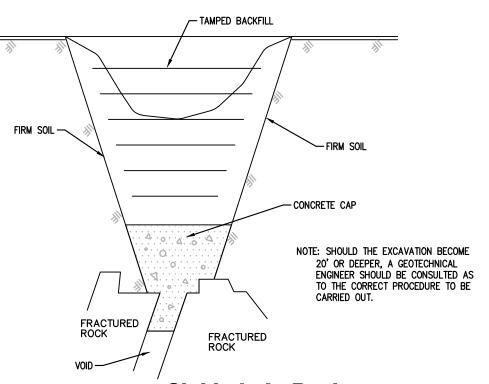
PLAN TITLE: **ESPC** CHECKED: SCALE: 1"=20' 8/30/25 JER JER ROJECT NO REVISION: DRAWING NO



Sinkhole In Soil

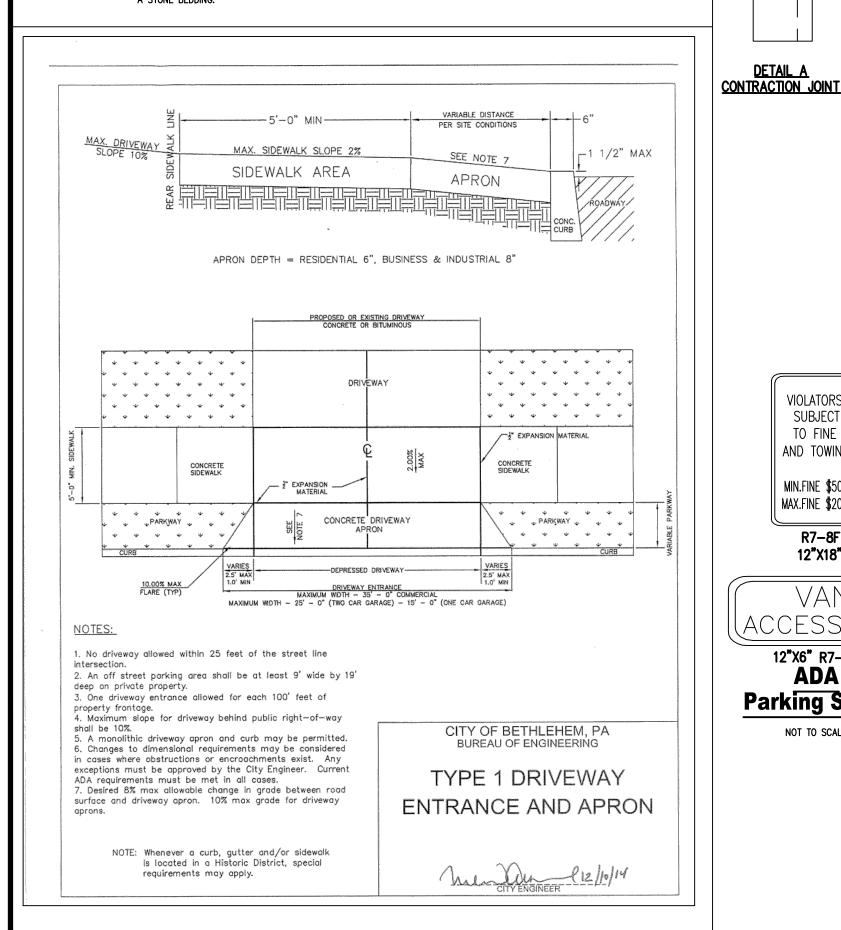
NOT TO SCALE

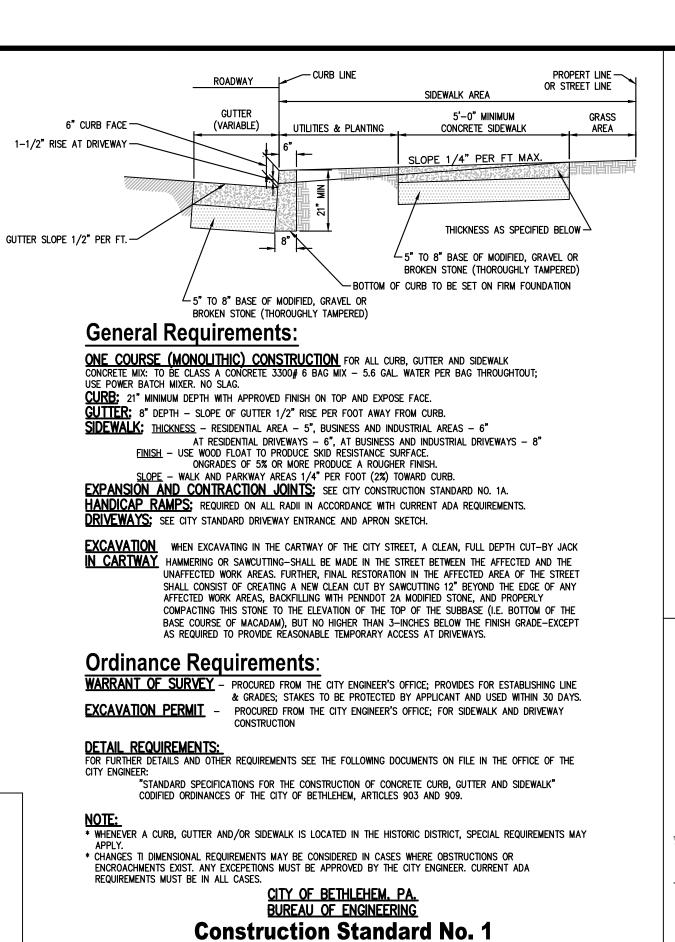
- 1. THE REPAIR TECHNIQUES AS DESCRIBED BELOW ARE SUITABLE ONLY IF THE SINKHOLE IS LOCATED IN AN OPEN AREA. IF THE SINKHOLE IS LOCATED UNDER OR NEAR A STRUCTURE OR A BUILDING, COMPACTION GROUTING MAY BE NECESSARY FOR REMEDIATION, AS DETERMINED BY A GEOTECHNICAL ENGINEER LICENSED IN THE COMMONWEALTH OF PENNSYLVANIA
- 2. EXCAVATE DOWN TO ROCK TO SINKHOLE THROAT OR TO A DEPTH OF 15 FEET BELOW GRADE, WHICHEVER
- 3. IF ROCK IS ENCOUNTERED WITHIN 10 FEET, STOP EXCAVATION. THE LIMIT OF EXCAVATION SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER. GENERALLY, A ZONE OF SOFT, IN-FILL MATERIAL WILL BE FOUND WHICH COVERS MOST OF THE BOTTOM OF THE EXCAVATION. COVER THIS AREA WITH A GRADED ROCK FILTER AS SHOWN
- 4. BACKFILL HOLE WITH RELATIVELY IMPERMEABLE CLAY SOIL. COMPACT SOIL IN 6" LIFTS WITH A POWER TAMPER OR RAMMER TO AT LEAST 95% OF THE STANDARD PROCTOR.
- 5. BACKFILL HOLE ABOVE EXISTING GRADE TO DIVERT SURFACE WATER.



Sinkhole In Rock

- 1. THE REPAIR TECHNIQUES AS DESCRIBED BELOW ARE SUITABLE ONLY IF THE SINKHOLE IS LOCATED IN AN OPEN AREA. IF THE SINKHOLE IS LOCATED UNDER OR NEAR A STRUCTURE OR A BUILDING, COMPACTION GROUTING MAY BE NECESSARY FOR REMEDIATION, AS DETERMINED BY A GEOTECHNICAL ENGINEER LICENSED IN THE
- 2. EXCAVATE DOWN TO BEDROCK OR TO THE SINKHOLE THROAT
- 3. EXPOSE THE ROCK SURFACE BY WASHING THE AREA WITH A SMALL HOSE WATER SPRAY AND INSTALL HIGHSUMP CEMENT INTO VOIDS AND CREVICES UNTIL VOIDS ARE FILLED AND A CAP COVERS THE AREA. THE LIMIT OF EXCAVATION AND CONCRETE SHALL BE DETERMINED BY THE ENGINEER.
- 4. AFTER CONCRETE HAS SET OVERNIGHT, BACKFILL HOLE WITH RELATIVELY IMPERMEABLE CLAY SOIL. COMPACT SOIL IN 6" LIFTS WITH A POWER TAMPER OR RAMMER TO AT LEAST 95% OF THE STANDARD PROCTOR. THE TOP THREE(3) FEET SHALL BE BACKFILLED WITH 2RC CRUSHED AGGREGATE.
- 5. BACKFILL HOLE ABOVE EXISTING GRADE TO DIVERT SURFACE WATER.
- 6. WHEN SINKHOLE IS UNDER A PROPOSED UTILITY. CONCRETE IS TO BE SET 6" BELOW THE UTILITY TO ALLOW FOR A STONE BEDDING.





NOT TO SCALE

Typical Curb Taper Detail

NOT TO SCALE

_3/16" WIDE

1/4" RADIUS —

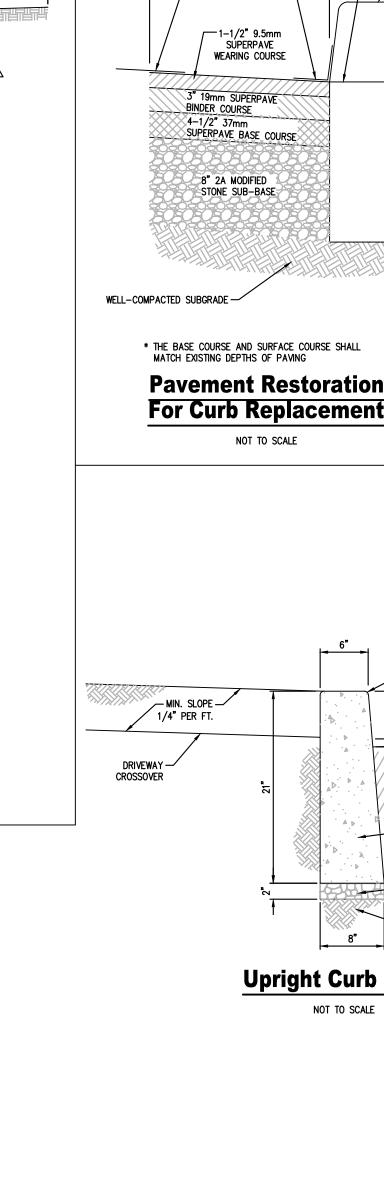
3/4" RADIUS -

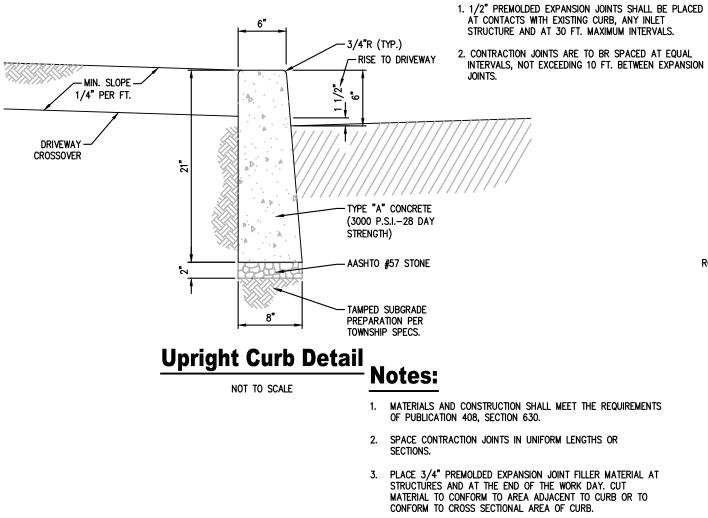
CLASS A

TYPICAL CROSS SECTION

CEMENT

6" REVEAL





- DEPRESSED CURB

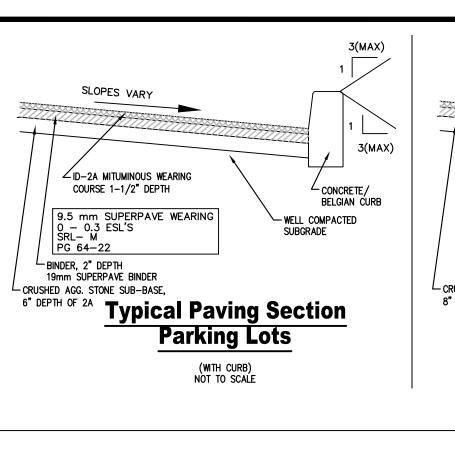
— STANDARD CURE

FOR CURB RAMP

— SEAL JOINT WITH

(12"MIN WIDTH)

BM-1 OR A-1 BIT. GUTTER SEAL-

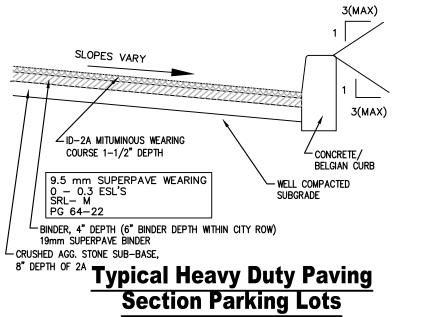


CONSTRUCTION JOINT -

Concrete Curb

NOT TO SCALE

(SEE DETAIL A)



(WITH CURB) NOT TO SCALE

1524 (5'-0")

MIN. (SEE NOTE 20)

2.00% MAX

CRO<u>SS SLO</u>PE

Sidewalk

Typical Section

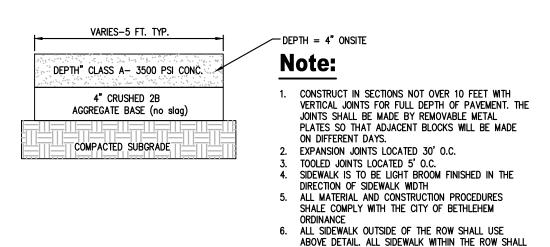
NOT TO SCALE

✓ SLOPE: ZERO ± 2.00%

SEE NOTE 14

1220 (4'-0") ②

SIDEWALK AREA



FOLLOW THE CITY STANDARD "CONSTRUCTION

BLACK FOREST ENGINEERING, LLC

1903 MAIN STREET

NORTHAMPTON, PA 18067

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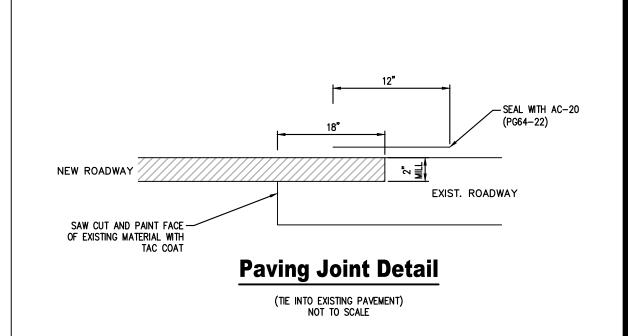
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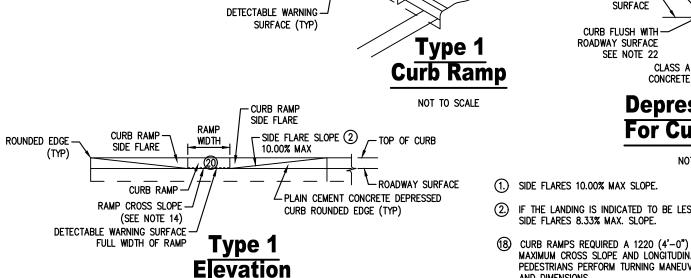
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ALTERATIONS MAY HAVE BEEN MADE WITHOUT THE APPROVAL OR KNOWLEDGE OF THE SIGNATORY.

Concrete Sidewalk Detail

NOT TO SCALE





(1)2

PLAIN CEMENT -

CONCRETE

1220 (4'-0")

N.

DEPRESSED CURB

SURFACE OF CURB RAMP

FLUSH WITH ROADWAY

__ STAR WASHER

(TYP)

STRAP

Installation Detail

NOT TO SCALE

SURFACE

ROADWAY -

SURFACE

Depressed Curb For Curb Ramps NOT TO SCALE

_6 (1/4") RADIUS

FLARED SLOPE

SURFACE

19 (3/4") RADIUS —

SLOPE TO MATCH RAMP-

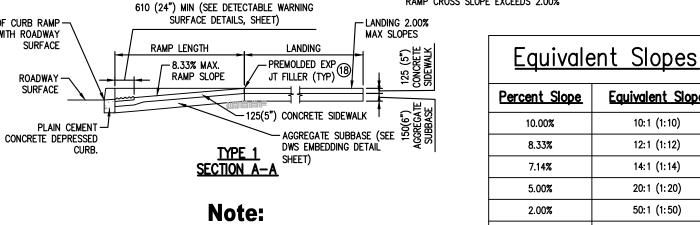
OR LANDING SLOPE

ROADWAY -

(2) IF THE LANDING IS INDICATED TO BE LESS THAN 1220 (4'-0") CONSTRUCT SIDE FLARES 8.33% MAX. SLOPE.

(18) CURB RAMPS REQUIRED A 1220 (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATION

(20) CONSTRUCT DEPRESSED CURB SLOPE TO MATCH ROADWAY PROFILE AND HAVE A FLUSH CONNECTION. DO NOT EXCEED 3.00% PER 305 (1"-0") CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING FROM LEVEL LANDING TO ROADWAY PROFILE. A TECHNICALLY INFEASIBLE FORM IS REQUIRED WHEN RAMP CROSS SLOPE EXCEEDS 2.00%



EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED OF PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

SEAL: <u>Equivalent Slope</u> 10:1 (1:10) 12:1 (1:12) 14:1 (1:14) 20:1 (1:20) PE085609 / 50:1 (1:50) 100:1 (1:100)

JOSEPH E. RENTKO, P.E. #PE085609 2455 BLACK FOREST DRIVE COPLAY, PA 18037

570-239-4499

REV: DESCRIPTION:

PROJECT TITLE:

PROJECT OWNER:

PROJECT LOCATION:

PLAN TITLE:

DATE

BY

128 EAST FAIRVIEW ST.

APARTMENTS

CITY OF BETHLEHEM

WARD 9 BLOCK 12

NORTHAMPTON COUNTY

PENNSYLVANIA

DETAILS

1.00%

- PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTIONS 350, 409, 630, 676 AND 694. PROVIDE EXPANSION JOINT MATERIAL 13 (1/2") THICK WHERE CURB RAMP ADJOINS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE WITH THE TOP OF JOINT FILLER FLUSH WITH ADJACENT CONCRETE SURFACE. 3. CONSTRUCT CURB RAMPS WITH A MINIMUM 1220 X 1220 (4'-0" X 4'-0") CLEAR SPACE BEYOND THE CURB FACE, WITHIN THE WIDTH OF THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. SEE SHEET 7 FOR CROSSWALK DETAILS.
- SEAL JOINTS WITH AN APPROVED SEALING MATERIAL. PROVIDE SLIP RESISTANT TEXTURE ON CURB RAMP BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP. EXTEND TEXTURE THE FULL WIDTH AND LENGTH OF THE CURB RAMP INCLUDING FLARED SIDE RAMPS. 6. MODIFY CONSTRUCTION DETAILS TO ADAPT DIMENSIONS TO EXISTING CURB HEIGHTS WHERE THE CURB IS LESS THAN THE STANDARD 205 (8")
- CURB RAMP AND SIDE FLARE LENGTHS ARE VARIABLE AND BASED ON CURB HEIGHT AND THE SIDEWALK SLOPE. 8. TO AVOID CHASING GRADE INDEFINITELY WHEN TRAVERSING THE HEIGHT OF CURB, RAMP LENGTH NOT TO EXCEED 4500 (15'-0"). ADJUST RAMP SLOPE AS NEEDED TO PROVIDE ACCESS TO THE MAXIMUM EXTENT FEASIBLE.
- 9. NON-WALK AREA IS AN OBSTRUCTED OR GRASS/NON-PAVED AREA ADJACENT TO THE PEDESTRIAN ACCESS ROUTE THAT IS NOT USED BY THE 10. THE DETAILS DEPICT PEDESTRIAN PUSHBUTTON POLES TO ILLUSTRATE THE RECOMMENDED PLACEMENT OF PEDESTRIAN PUSHBUTTONS. FOR ALTERATION PROJECTS, PROVIDE ACCESS TO EXISTING PEDESTRIAN PUSHBUTTONS TO THE MAXIMUM EXTENT FEASIBLE. INSTALL PEDESTRIAN PUSHBUTTON STUB POLES, WHERE APPLICABLE, SO AS NOT TO CREATE PEDESTRIAN OBSTRUCTIONS.
- 11. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. US CUSTOMARY UNITS IN () PARENTHESIS. 12. ALIGN DETECTABLE WARNING SURFACE TRUNCATED DOMES ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF THE RAMP AND
- 13. PROVIDE DETECTABLE WARNING SURFACES (DWS) 610 (24") MINIMUM (IN THE DIRECTION OF PEDESTRIAN TRAVEL) ACROSS FULL WIDTH OF RAMP AT THE GRADE BREAK NEAR STREET EDGE. PROVIDE DWS THAT CONTRAST VISUALLY WITH ADJACENT WALKWAY SURFACES, EITHER LIGHT-ON-DARK
- OR DARK-ON-LIGHT FOR THE FULL WIDTH OF RAMP. 14. FOR NEW CONSTRUCTION, DO NOT EXCEED 2.00% CROSS SLOPE ON THE CURB RAMP OR PEDESTRIAN ACCESSIBLE ROUTE
- 15. FOR NEW CONSTRUCTION AND ALTERATIONS, CONSTRUCT CURB RAMP AND FLARE SLOPES WITH THE FLATTEST SLOPE POSSIBLE. THE SLOPES INDICATED IN THE DETAILS SHOW THE MAX SLOPE ALLOWABLE. SLOPES THAT EXCEED THOSE INDICATED IN THE DETAILS, OR CONTRACT DOCUMENTS AS APPLICABLE, WILL NOT BE ACCEPTED AND WILL BE DECONSTRUCTED.
- CONSTRUCT SIDEWALKS AT A LONGITUDINAL SLOPE NOT TO EXCEED 5.00% FOR ROADWAY PROFILE SLOPES THAT EXCEED 5.00%, CONSTRUCT PARALLEL SIDEWALKS ADJACENT TO ROADWAY AT A LONGITUDINAL SLOPE NOT TO EXCEED ROADWAY PROFILE SLOPE.

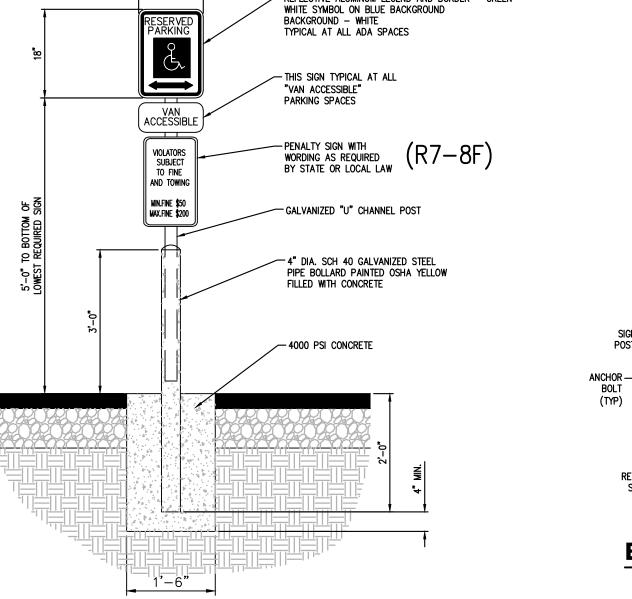
 17. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP AND ADJOINING ROAD SURFACE IS NOT TO EXCEED AN ALGEBRAIC DIFFERENCE OF 11.00%. THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A CURB RAMP, LANDING OR BLENDED TRANSITION IS NOT TO EXCEED 5.00%. SEE SHEET 8 FOR DETAILS.
- THE CONSTRUCTION STANDARDS DEPICTED ARE MOST APPROPRIATE FOR NEW CONSTRUCTION. ALL CONSTRUCTION MUST MEET THE STANDARDS **Break Away Sign Post** CONTAINED HEREIN UNLESS OTHERWISE NOTED OR DIRECTED.

 19. ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE. THEREFORE, THE LENGTH OF RAMP IS NOT SOLELY DEPENDANT ON THE HEIGHT OF CURB. (FOR EXAMPLE, A 150 (6") CURB DOES NOT NECESSARILY MEAN A RAMP LENGTH OF 1830 (6'-0") FOR A 12:1 (1:12) SLOPE.
 - (200").

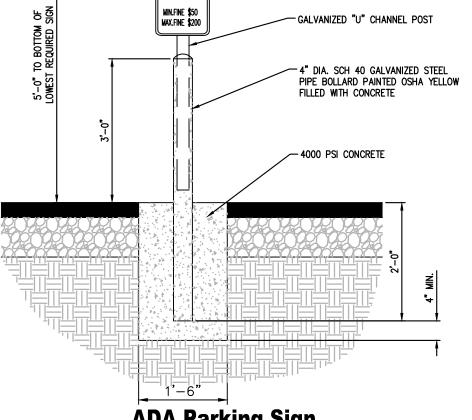
 21. THE TRAVEL LANE IS DEFINED BY THE OUTSIDE EDGE OF THE WHITE PAVEMENT MARKING LINE. IF A WHITE PAVEMENT MARKING LINE DOES NOT EXIST, THE TRAVEL LANE IS DEFINED BY THE CONTRACT DOCUMENTS. 22. CONSTRUCT DEPRESSED CURB FOR CURB RAMPS FLUSH TO ADJACENT ROADWAY. GRADE EDGE OF ROAD ELEVATIONS AT THE FLOW LINE TO

20. SIDEWALK WIDTH MAY BE REDUCED TO 1220 (4'-0"), WHEN PASSING AREAS 1525 X 1525 (5'-0" X 5'-0") ARE PROVIDED EVERY 61 METERS

- ENSURE POSITIVE DRAINAGE AND PREVENT PONDING. FOR LEVEL LANDINGS BEHIND DEPRESSED CURB, ADJUST SLOPES TO PROVIDE POSITIVE 23. CHEEK WALLS ARE PERMITTED WHEN ADJACENT TO NON-WALK AREAS OR ELEVATION DIFFERENCES CANNOT BE ACCOMMODATED BY FLARES OR GRADING. GRADE GRASS AREAS OR OTHER NON-WALK AREAS AT 3:1 (1:3) MAXIMUM. DO NOT INSTALL CHEEK WALLS THAT INTERSECT THE
- 24. CONSTRUCT TOP OF PLAIN CEMENT CONCRETE DEPRESSED CURB TO BE FLUSH WITH ADJACENT SURFACES (RAMPS, SIDEWALKS, FLARES). 25. FOR CURB RAMPS THAT LEAD TO A SINGLE CROSSWALK, THE RAMP (EXCLUDING FLARES) TO BE FULLY INSIDE OF MARKED CROSSWALK LINES. SEE SHEET 7 FOR DETAILS.
- CHECKED: SCALE: DRAWN 1"=20' 8/30/25 26. A 1220 (4'-0") MAXIMUM DIGITAL DISPLAY LEVEL WILL BE USED TO VERIFY THE SLOPES OF CURB RAMPS AND SIDEWALKS. ROJECT NO DRAWING NO REVISION:

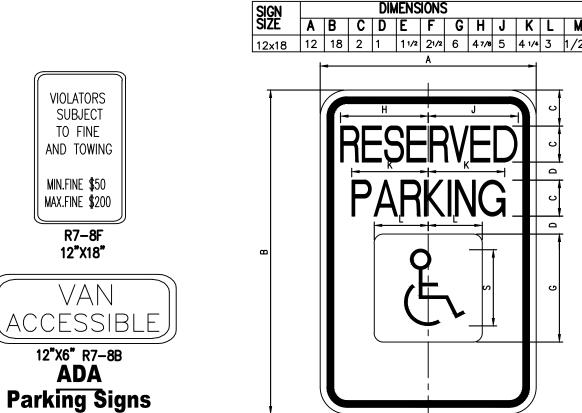


-REFLECTIVE ALUMINUM LEGEND AND BORDER - GREEN



ADA Parking Sign ONE AT EACH ADA SPACE. WHERE ADA SPACES FACE EACH OTHER WITHOUT WALKWAY, THERE SHALL BE ONE POST WITH SIGNS MOUNTED BOTH SIDES.

- MOUNT ALL SIGNS ON PENNDOT STD. 2.25 LB. BREAKAWAY CHANNEL BAR POSTS, UNLESS NOTED OTHERWISE.

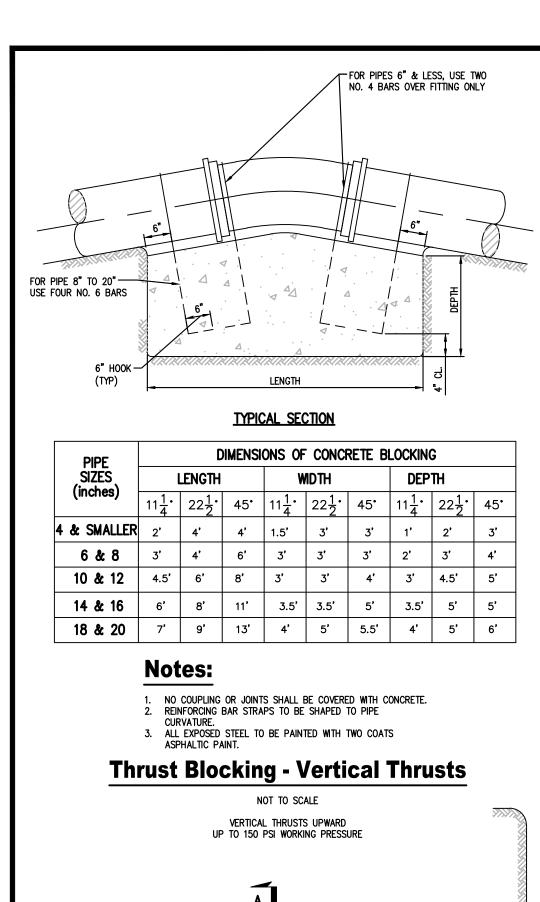


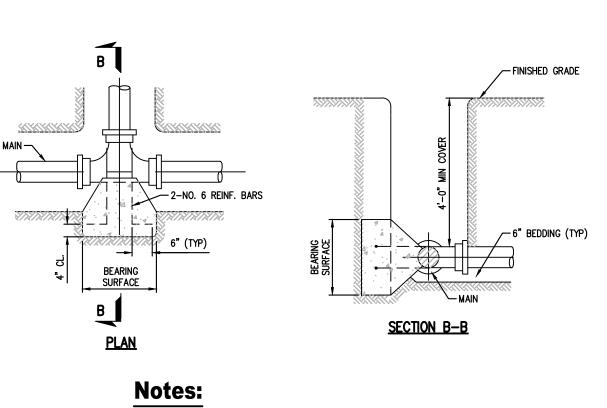
NOT TO SCALE

COLOR: LEGEND AND BORDER GREEN (NON-REFLECTORIZED WHITE (NON-REFLECTORIZED BACKGROUND WHITE (NON-REFLECTORIZED BACKGROUND BLUE (NON-REFLECTORIZED) ' Reserved Parking" Sign PennDOT R7-8

NOT TO SCALE

- MARK ALL PARKING SPACES WITH 4" WIDE SOLID WHITE LINES.





- SEE STANDARD DETAIL STANDARD DETAIL VII—27 FOR BEARING AREA REQUIRED.
 NO COUPLING OR JOINTS SHALL BE COVERED WITH CONCRETE.
 REINFORCING BAR STRAPS TO BE SHAPED TO PIPE
- CURVATURE.

 4. ALL EXPOSED STEEL TO BE PAINTED WITH TWO COATS ASPHALTIC PAINT.

Thrust Blocking For Tees

NOT TO SCALE

TYPICAL BLOCKING FOR HORIZONTAL & VERTICAL DOWNWARD THRUSTS UP TO 150 PSI WORKING PRESSURE

	BEARING AREA REQUIRED, SQUARE FEET											
Type of Bearing Material and Allowable loads, psf	4" and less DEGREE BEND				6" and 8" DEGREE BEND				10" and 12" DEGREE BEND			
	11 1/4	$22\frac{1}{2}$	45	90	11 <u>1</u>	$22\frac{1}{2}$	45	90	11 <u>1</u>	$22\frac{1}{2}$	45	90
LOOSE SAND OR MEDIUM CLAY - 2,000	1.0	2.0	2.7	4.0	1.5	3.0	6.0	10.0	3.0	6.2	12.0	22.0
PACKED GRAVEL AND SAND - 4,000	1.0	1.0	1.5	2.0	1.0	1.5	3.0	5.0	1.5	3.1	6.0	11.0
ROCK - 10,000	1.0	1.0	1.0	1.0	1.0	1.0	1.2	2.0	1.0	1.3	2.4	4.4

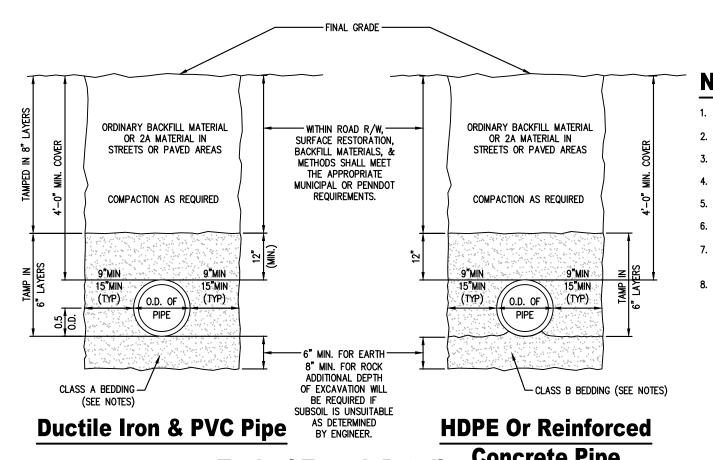
Type of Bearing Material and Allowable Loads 14" and 16" DEGREE BEND OR DEFLECTION OR DEFLECTION 18" and 20" DEGREE BEND OR DEFLECTION OR DEFLECTION	BEARING AREA REQUIRED, SQUARE FEET										
and Allowable Loads	Type of Bearing Material and Allowable Loads		DEGREE	BEND		DEGREE BEND					
$\begin{vmatrix} 11\frac{1}{4} \end{vmatrix} 22\frac{1}{2} \begin{vmatrix} 43 \end{vmatrix} 90 \begin{vmatrix} 11\frac{1}{4} \end{vmatrix} 22\frac{1}{2} \begin{vmatrix} 43 \end{vmatrix} 90$		11 <u>1</u>	$22\frac{1}{2}$	45	90	11 <u>1</u>	$22\frac{1}{2}$	45	90		
LOOSE SAND OR MEDIUM 6.0 12.0 22.5 40.0 9.5 19.0 37.0 67.0	LOOSE SAND OR MEDIUM CLAY -2,000	6.0	12.0	22.5	40.0	9.5	19.0	37.0	67.0		
PACKED GRAVEL AND 3.0 6.0 11.3 20.0 4.8 9.5 18.5 33.5	PACKED GRAVEL AND SAND - 4,000	3.0	6.0	11.3	20.0	4.8	9.5	18.5	33.5		
ROCK - 10,000 1.2 2.4 4.5 8.0 2.0 3.8 7.4 13.5	ROCK - 10,000	1.2	2.4	4.5	8.0	2.0	3.8	7.4	13.5		

Notes:

THRUST BLOCKING FOR TEES SHALL HAVE THE SAME BEARING AREA AS 90° BENDS OF THE PIPE SIZE OF THE OUTLET. DEAD ENDS SHALL HAVE THE SAME BEARING AS 90° BENDS.

Thrust Blocking Schedule NOT TO SCALE

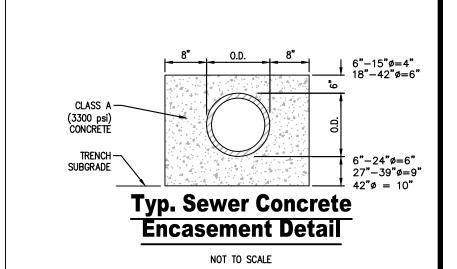
SCHEDULE OF DIMENSIONS UP TO 150 PSI WORKING PRESSURE

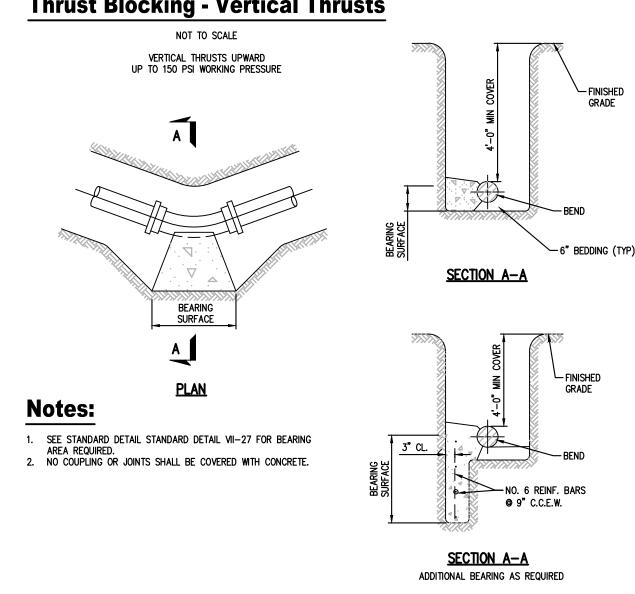


Concrete Pipe Typical Trench Details

NOT TO SCALE

Notes: 1. ALL BACKFILL MATERIAL IS SUBJECT TO CITY APPROVAL OR UGI APPROVAL FOR GAS MAIN. 2. CLASS A BEDDING: APPROVED SCREENINGS TO 12" ABOVE PIPE. 3. CLASS B BEDDING: FINE AGGREGATE 4. SELECT BACKFILL: CLEAN DRY EARTH WITH A MAXIMUM STONE SIZE 3-INCHES. ORDINARY BACKFILL: CLEAN DRY EARTH WITH A MAXIMUM STONE SIZE 6-INCHES. HYDRO HAMMERS CAN BE USED AT DISTANCES GREATER THAN 3' ABOVE THE TOP OF THE PIPE IF THE SOIL DENSITY HAS BEEN PREVIOUSLY COMPACTED TO A MINIMUM 95% STANDARD PROCTOR. 8. PVC PIPE TO BE SDR 35 FOR PIPE RUNS LESS THEN 15' DEEP. FOR SANITARY SEWER RUNS GREATER THEN 15' IN DEPTH, SDR 26 SHALL BE USED.

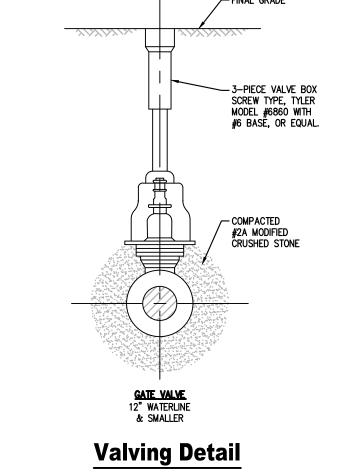




Thrust Blocking For Bends

NOT TO SCALE

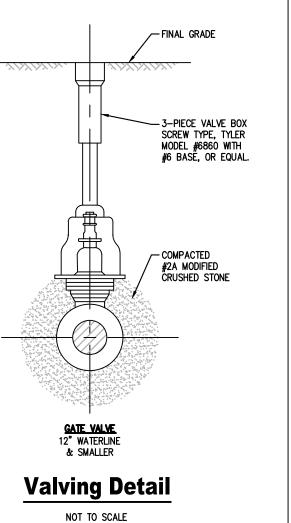
TYPICAL BLOCKING FOR HORIZONTAL & VERTICAL DOWNWARD THRUSTS UP TO 150 PSI WORKING PRESSURE

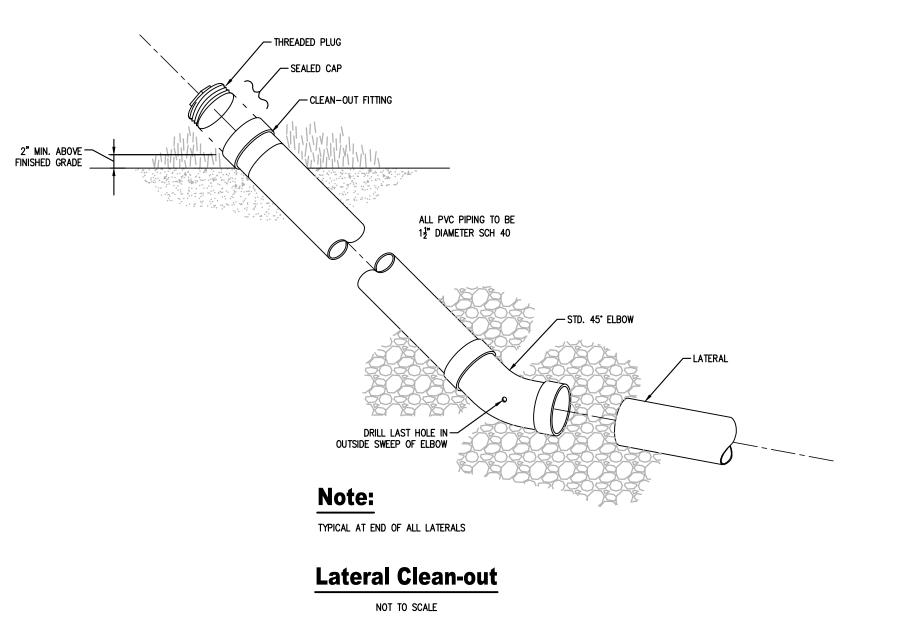


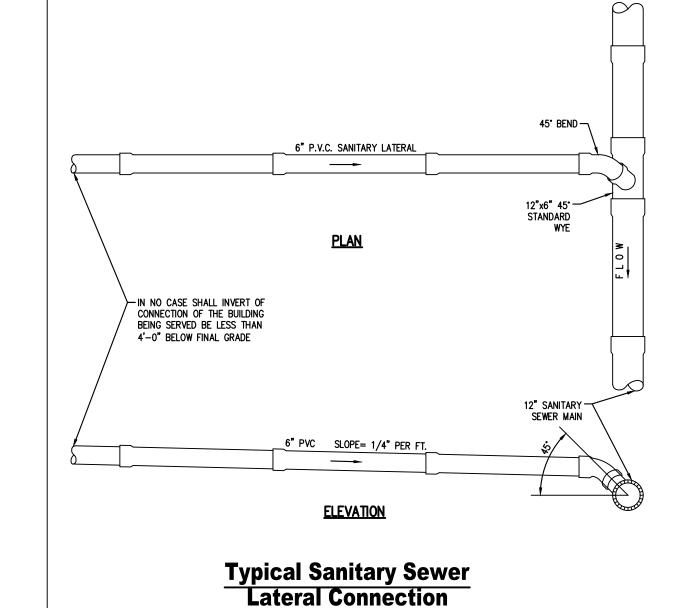
1. VALVES 8" OR SMALLER SHALL BE RODDED TO A FITTING WITH 2

ALL-THREAD RODS, 12" VALVES WITH 4 ALL-THREAD RODS.

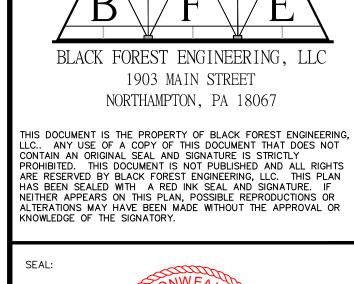
ROD DIAMETER SHALL BE EQUAL TO THAT OF THE GLAND BOLTS. RODS SHALL BE GIVEN ONE COAT OF BITUMASTIC PAINT.

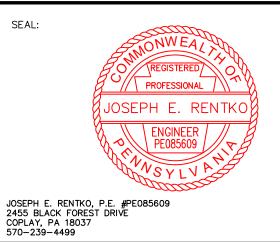


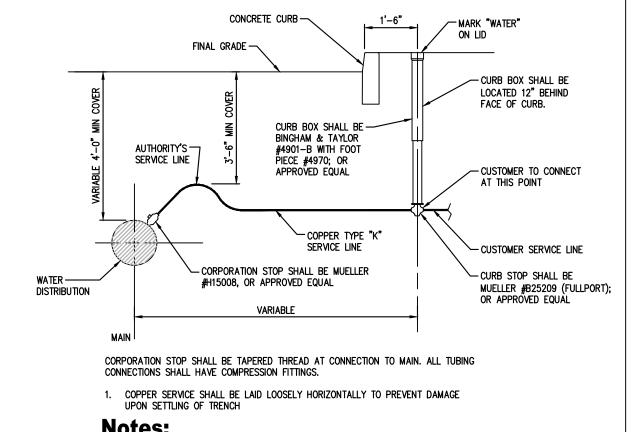




NOT TO SCALE







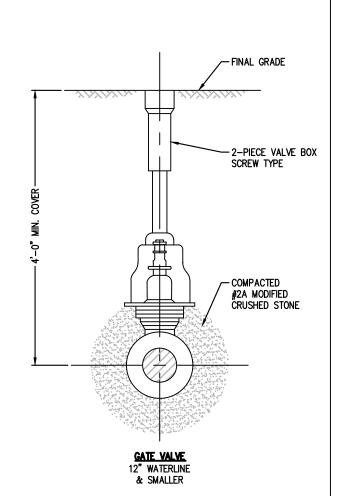
Notes:

1. ALL PIPE MUST BE BEDDED IN A MIN. 4" LAYER OF SAND OR SCREENINGS AND SHALL BE BACK FILLED WITH THE SAME MATERIAL IN MAX. 6" LAYERS COMPACTED. EACH LAYER SHALL BE HAND TAMPED UNTIL 1' OF COVER EXISTS OVER THE PIPE.

2. PIPES AROUND WIRES AND ALL PLUGS, CAPS, HYDRANTS, TEES, CROSSES, VALVES, ETC., SHALL BE BLOCKED WITH CONCRETE TO TAKE THE REACTION AND OR THRUST.

Water Lateral Small Service Connection





NOTE:

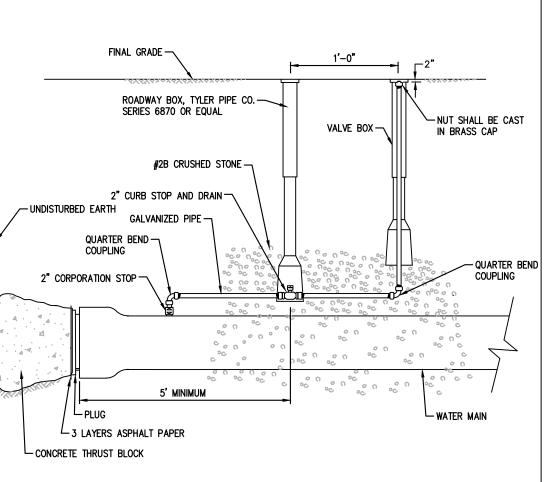


NOT TO SCALE

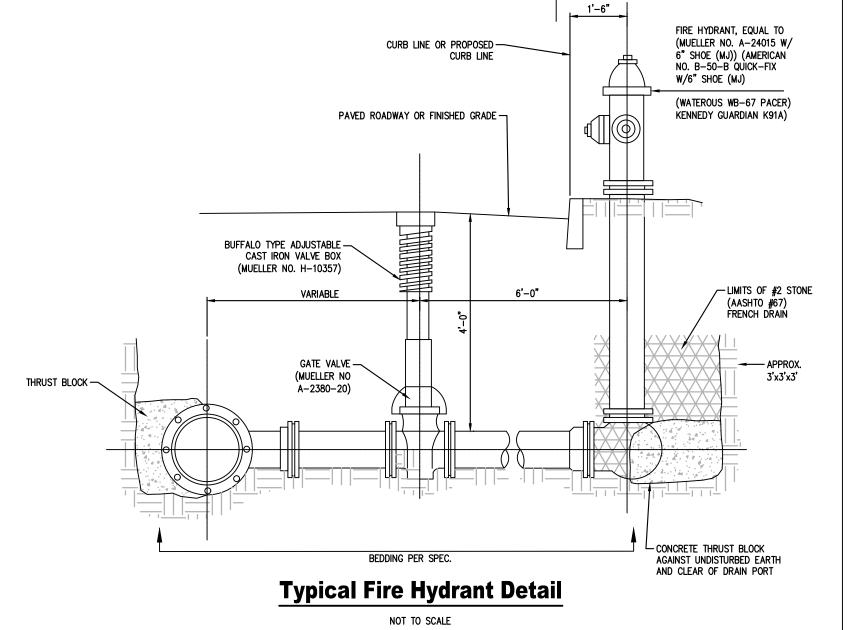
2. ROD DIAMETER SHALL BE EQUAL TO THAT OF THE GLAND BOLTS. RODS SHALL BE GIVEN ONE COAT OF BITUMASTIC PAINT.

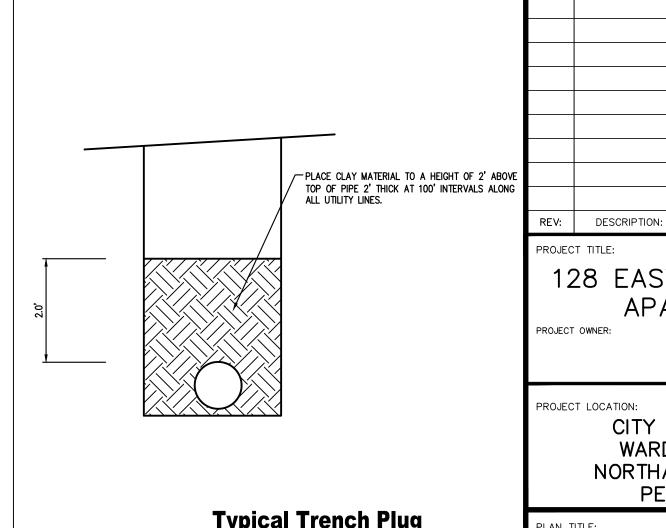
NOTE:

1. RETAINER GLANDS REQUIRED ON ALL MECHANICAL JOINT FITTINGS









APARTMENTS PROJECT OWNER: PROJECT LOCATION: CITY OF BETHLEHEM WARD 9 BLOCK 12

128 EAST FAIRVIEW ST.

DATE

NORTHAMPTON COUNTY PENNSYLVANIA PLAN TITLE: DETAILS CHECKED: SCALE: DRAWN: 1"=20' 8/30/25 JER JER ROJECT NO. DRAWING NO. REVISION:

Typical Trench Plug