

ZONING DATA R-6 (RESIDENCE DISTRICT): REQUIRED EXISTING PROPOSED MINIMUM LOT SIZI *1.25 AC *1.25 AC MINIMUM LOT AREA PER UNIT 2,292 SF MAXIMUM BUILDING COVERAGE 14.5% 41.1% 70.0% MINIMUM FRONT YARD 37.8 F 63.5 FT MINIMUM SIDE YARD 20.0 FT 17.3 FT 20.0 FT MINIMUM REAR YARD 25.0 FT 6.7 FT 25.0 FT MAXIMUM IMPERVIOUS COVERAGE 63.0% 70.0% 47.4% MAXIMUM BUILDING HEIGHT 37.0± FT 39.9 FT 160.0 FT 81.2 FT 130.0 FT MAXIMUM BUILDING LENGTH MINIMUM PARKING 2.25/UNIT NA 2.27/UNIT

1. EXISTING NON-CONFORMITY LOT AREA PER UNIT BASED ON CONSOLIDATED LOT AREA.

IMPERVIOUS PERCENTAGES BASED ON CONSOLIDATED SITE AREA. 4. FOR MORE DETAILED INFORMATION REFER TO THE ZONING CODE OF RADNOR TOWNSHIP, LATEST EDITION.

EXISTING LOT DATA: TAX FOLIO NUMBER: 36-02-01219-00 TAX MAP NUMBER: 36-13-384:000 34,770 SF (0.7982 AC) SITE AREA: LOT AREA: 31,171 SF (0.7156 AC) TAX FOLIO NUMBER: 36-02-01219-01 TAX MAP NUMBER: 36-13-384: 001 SITE AREA: 19,852 SF (0.4557 AC) LOT AREA: 19,252 SF (0.4420 AC)

CONSOLIDATED LOT DATA:

DRIVES

OTHER

SITE AREA: 54,622 SF (1.2539 AC) LOT AREA: 50,423 SF (1.1576 AC)

EXISTING IMPERVIOUS COVERAGE: BUILDINGS & PORCHES 7,915 SF (14.5%) 726 SF PATIOS 969 SF ASPHALT DRIVES 14,168 SF 1,506 SF GRAVEL DRIVES OTHER TOTAL 25,627 SF (46.9%) PROPOSED IMPERVIOUS COVERAGE: 22,445 SF (41.1%) BUILDINGS 1,494 SF

TOTAL

DUMPSTERS OUT OF THE GARAGE.

HOME OWNERS ASSOCIATION.

DEVELOPMENT PLANS.

GENERAL NOTES: 1. THESE PLANS ARE BASED ON THE NOTED REFERENCES AND THE INTENT OF THESE PLANS IS TO ILLUSTRATE A 22 UNIT MULTI-FAMILY DEVELOPMENT AS PERMITTED BY THE RADNOR TOWNSHIP R-6 ZONING DISTRICT. THE UNITS WILL BE A MIX OF 2 AND 3 BEDROOM UNITS.

10,261 SF

34,406 SF (63.0%)

- 2. THE MAJORITY OF THE EXISTING FEATURES WILL BE REMOVED AS SHOWN ON THE DEMOLITION PLAN.
- 3. THIS PROJECT WILL BE DEVELOPED AS A PLANNED COMMUNITY OR A CONDOMINIUM. 4. TRASH AND SNOW REMOVAL WILL BE THE RESPONSIBILITY OF THE HOME OWNERS ASSOCIATION. COMMON DUMPSTER AREAS ARE SHOWN ON THE PLAN. A WASTECADDY OR SIMILAR PRODUCT WILL BE USED TO WHEEL THE
- 5. THE RESPONSIBILITY FOR THE CONTINUED MAINTENANCE AND OPERATION OF THE STORMWATER MANAGEMENT FACILITIES WILL BE THE OBLIGATION OF THE
- 6. THE PROPERTY SHALL BE GRADED SO THAT RUNOFF FROM THE MAJORITY OF THE PROPOSED DEVELOPMENT WILL BE DIRECTED TO AND COLLECTED BY A SERIES OF INLETS AND SWALES AND CONVEYED TO THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM WHICH WILL PROVIDE THE TOWNSHIP AND DEP REQUIRED RATE AND VOLUME CONTROLS. THE COLLECTED RUNOFF WILL BE OVER-CONTROLLED BY THE STORMWATER FACILITIES TO COMPENSATE FOR THE RUNOFF FROM THE REMAINING SITE AREAS THAT ARE UNCONTROLLED. OVERFLOW FROM THE PROPOSED STORMWATER MANAGEMENT FACILITIES WILL BE PIPED TO EXISTING STORM SEWER FACILITIES LOCATED IN LANCASTER AVENUE. ADDITIONAL INFORMATION WILL BE PROVIDED WITH THE FINAL LAND DEVELOPMENT PLANS.
- 7. THE DEVELOPMENT WILL BE SERVICED BY A NEW GRAVITY SEWER LATERAL WHICH WILL CONNECT TO THE EXISTING SEWER MAIN IN LANCASTER AVENUE. 8. THE DEVELOPMENT WILL BE SERVICED BY NEW WATER LATERAL WHICH WILL
- CONNECT TO EXISTING WATER MAIN IN LANCASTER AVENUE. 9. ALL PROPOSED UTILITY LINES SHALL BE UNDERGROUND WHERE FEASIBLE. 10. LIGHTING WILL BE PROVIDED FOR THE PROPOSED PARKING AND PEDESTRIAN WALKWAYS IN ACCORDANCE WITH TOWNSHIP CODES INCLUDING 280-105.E. ADDITIONAL INFORMATION WILL BE PROVIDED WITH THE FINAL LAND
- 11. THE PROPOSED MONUMENT SIGN SHALL BE INSTALLED IN ACCORDANCE WITH TOWNSHIP CODES INCLUDING 280-121.C. 12. LANDSCAPING WILL BE PROVIDED IN ACCORDANCE WITH THE TOWNSHIP CODES. ADDITIONAL INFORMATION WILL BE PROVIDED WITH THE FINAL LAND
- DEVELOPMENT PLANS. 13. TYPICAL EROSION AND SEDIMENTATION CONTROLS WILL BE PROVIDED FOR THE CONSTRUCTION OF THIS PROPERTY INCLUDING A STABILIZED CONSTRUCTION ENTRANCE, FILTER SOCKS, SILT FENCE, INLET PROTECTION, TOPSOIL STOCKPILES SURROUNDED BY SILT FENCE AND EROSION CONTROL MATTING, ETC. AS WELL AS OTHER TYPICAL EROSION CONTROL MEASURES INCLUDING LIMITING SITE DISTURBANCE, IMMEDIATE STABILIZATION, ETC. ADDITIONAL INFORMATION WILL
- BE PROVIDED WITH THE FINAL LAND DEVELOPMENT PLANS. 14. THE PROJECT'S RECEIVING WATERCOURSE IS ITHAN CREEK WHICH IS PART OF THE DARBY CREEK WATERSHED AND THE CHAPTER 93 CLASSIFICATION IS CWF,
- 15. A LOW VOLUME HIGHWAY OCCUPANCY PERMIT SHALL BE OBTAINED FROM THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FOR ANY WORK PROPOSED WITHIN THE STATE RIGHT OF WAY.
- 16. AS REQUIRED BY PENNDOT, DURING CONSTRUCTION, PEDESTRIAN ACCESSIBLE ROUTES MUST BE MAINTAINED OR TEMPORARY FACILITIES PROVIDED FOR ALL EXISTING PEDESTRIAN ROUTES ALONG LANCASTER AVENUE (SR 30.) 17. THE APPLICANT SHALL PAY A FEE IN LIEU OF PROVIDING PARK AND
- RECREATION LAND IN ACCORDANCE WITH 255-43.1. 18. PROPOSED WALKWAYS SLOPES SHALL NOT EXCEED 5%.

AVERAGE BUILDING GRADE CALCULATIONS:

FRONT				
ELEV	ELEV	AVERAGE	LENGTH	PRODUCT
383.00	383.00	383.00	87.4	33474.20
383.00	373.80	378.40	134.1	50743.44
373.80	377.00	375.40	79.5	29844.30
377.00	383.00	380.00	135.3	51414.00
TOTAL			436.3	165475.9
AVERAGE	GRADE:			379.27
BACK				
ELEV	ELEV	AVERAGE	LENGTH	PRODUCT
373.50	371.90	372.70	77.5	28884.25
371.90	365.50	368.70	140.1	51654.87
365.50	365.50	365.50	81.5	29788.25
365.50	373.50	369.50	135.3	49993.35
TOTAL	00.405		434.4	160320.7
AVERAGE	GRADE:			369.06

LOCATION MAP SCALE: 1" = 600'

I. BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED FOR RADNOR FAMILY PRACTICE BY CONTROL POINT ASSOCIATES, INC., CHALFONT, PA, DATED MAY 2,

- 2014 AND LAST REVISED MAY 14, 2014. FILE NO. CP14056 ZONING MAP OBTAINED ELECTRONICALLY FROM THE RADNOR TOWNSHIP WEBSITE
- . LIDAR TOPOGRAPHY AND OTHER GIS OBTAINED ELECTRONICALLY FROM SHAPE FILES DISTRIBUTED BY DELAWARE VALLEY REGIONAL PLANNING COMMISSION. FILES WERE OBTAINED VIA WWW.PASDA.PSU.EDU
- 4. AERIAL PHOTOGRAPH "PA_X24_Y082" & "PA_X25_Y082" PROVIDED BY DELAWARE VALLEY REGIONAL PLANNING COMMISSION AND AERIAL PHOTOMETRY
- ACCESSED ELECTRONICALLY AT MAPS.GOOGLE.COM. 5. SOILS INFORMATION VIA THE NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY (WEBSOILSURVEY.SC.EGOV.USDA.GOV.)

REFERENCE PLAN #1 NOTES:

. PROPERTY KNÖWN AS FOLIO 36-02-01219-00 & 36-02-01219-01, BLOCK 61 AS IDENTIFIED ON THE TAX MAPS OF DELAWARE COUNTY, RADNOR TOWNSHIP,

- COMMONWEALTH OF PENNSYLVANIA. 2. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR
- ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. 3. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE

POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE

LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL

- MATERIAL AS LISTED HEREON. 4. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY
- BE CONTAINED THEREIN. 5. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE > (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER REF. MAP NUMBER 42045C0017F AND 42045C0036F. MAP REVISED 6. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN
- AT THE TIME OF THE FIELD SURVEY. 7. ELEVATIONS ARE BASED UPON PA DOT BENCHMARK F101 REPUTED TO BE NAVD 1988 ELEVATION 343.57
- 8. UNDERGROUND STORM SEWER AND SANITARY SEWER PIPES ARE DRAWN GRAPHICALLY ON THIS SURVEY APPROXIMATE. UNDERGROUND STORM AND SANITARY PIPES SHOULD BE VERIFIED INDEPENDENTLY AS TO THEIR LOCATION SIZE AND TYPE AND SHOULD BE CONSIDERED BY THE CONTRACTOR OR DESIGN
- CONSULTANT PRIOR TO CONSTRUCTION. 9. THESE UNDERGROUND UTILITY COMPANIES DID NOT RESPOND TO PA ONE CALL REQUEST: ELECTRIC, GAS, AND TELEPHONE.

REFERENCE PLAN #1 REFERENCES: 1. MAP #015 OF THE OFFICIAL TAX MAPS OF THE RADNOR TOWNSHIP, DELAWARE

- COUNTY, COMMONWEALTH OF PENNSYLVANIA. 2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, PENNSYLVANIA, DELAWARE COUNTY, PANEL 36 OF 250", COMMUNITY-PANEL NUMBER 420428 0036 F, MAP REVISED: NOV 18, 2009.
- . MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP. PENNSYLVANIA. DELAWARE COUNTY. PANEL 17 OF 250". COMMUNITY-PANEL NUMBER 420428 0017 F, MAP REVISED: NOV 18, 2009. 4. MAP ENTITLED "COMMONWEALTH OF PENNSYLVANIA. DEPARTMENT OF HIGHWAYS.
- DRAWING FOR CONSTRUCTION AND CONDEMNATION OF RIGHT OF WAY ROUTE NO. 142 SECTION NO. 1 IN DELAWARE COUNTY; FROM STA. 2882+35 TO STA. 2891+10, LENGTH 875.0 FT 0.166 MI," SHEETS 1-3. 5. MAP ENTITLED "AS BUILT SURVEY MADE FOR J. GORDON AND LOIS T.
- LONGENECKER, RADNOR TOWNSHIP, DELAWARE COUNTY, PENNSYLVANIA," PREPARED BY YERKS ASSOCIATES, INC.,. DATE MARCH 28, 2002.PLAN D-36-13 384.

RECORD OWNER: WALKER FAMILY PROPERTIES. LLP 427 EAST LANCASTER AVENUE WAYNE, PA 19087

EQUITABLE OWNER: 427 LANCASTER AVE, LLC 44 PAPER MILL ROAD NEWTOWN SQUARE, PA 19073

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF _____

ON THIS THE __ DAY OF 20__, BEFORE ME, THE UNDERSIGNED PERSONALLY APPEARED DAVID SCOTT BREHMAN, MEMBER OF 427 E. LANCASTER, LLC, WHO BEING DULY SWORN ACCORDING TO LAW DEPOSES AND SAYS THAT 427 E. LANCASTER, LLC IS THE EQUITABLE OWNER OF THE PROPERTY SHOWN ON THIS PLAN, THAT THE LAND DEVELOPMENT PLAN WAS MADE AT HIS DISCRETION AS SUCH MEMBER AND THAT HE ACKNOWLEDGES THE SAME TO BE THE ACT AND PLAN OF 427 E. LANCASTER, LLC AND DESIRES THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

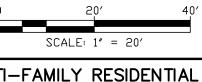
427 E. LANCASTER, LLC

DAVID SCOTT BREHMAN TITLE: MEMBER

WITNESS MY HAND AND SEAL THE DAY AND YEAR AFORESAID.

NOTARY SIGNATURE

MY COMMISSION EXPIRES:



PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT 427 EAST LANCASTER AVENUE, WAYNE, PA 19087 RADNOR TOWNSHIP DELAWARE COUNTY

PRELIMINARY PLANS

ILLUSTRATIVE SITE PLAN

1 02/22/16 PER TWP ENGS DATE COMMENTS

PROFESSIONAL

CHRISTOPHER C. YOH

EQUITABLE OWNER/APPLICANT 427 E. LANCASTER, LLC 44 PAPER MILL ROAD NEWTOWN SQUARE, PA 19073

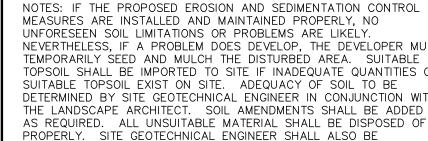
DATE: SCALE: ONE CALL NUMBER: DRAWN BY: PROJECT NUMBER:

DECEMBER 31, 2015 '' = 20'2016-011-1937 CCY 15-031

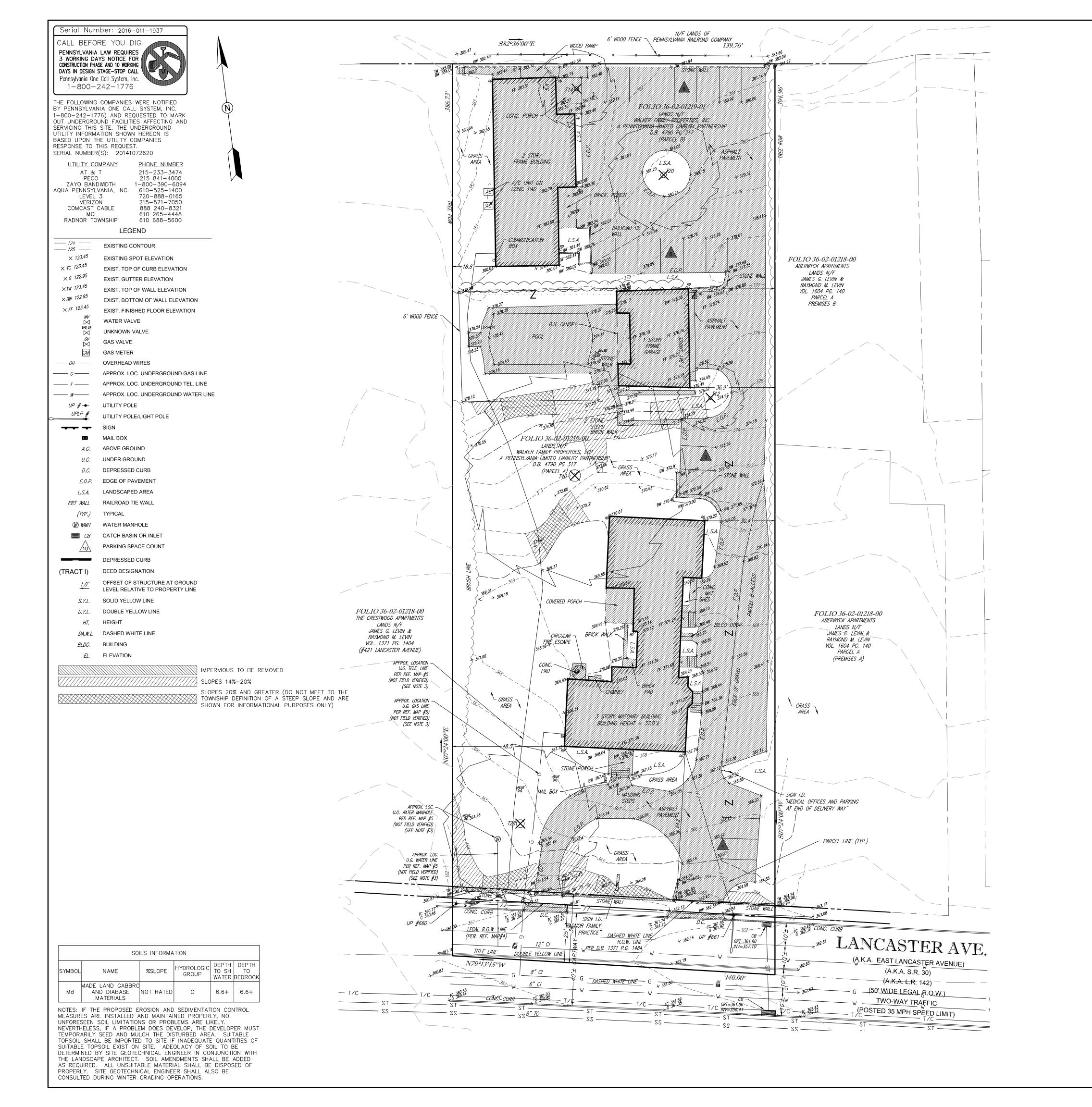
OF

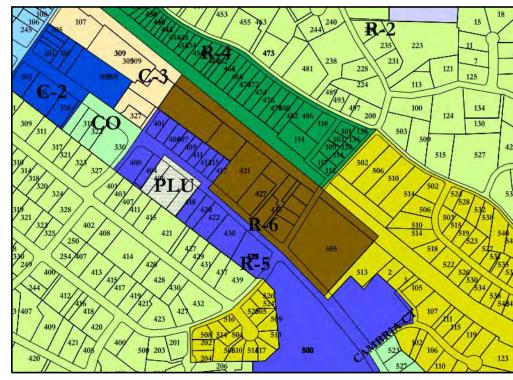
YOHN ENGINEERING, LLC 555 SECOND AVENUE, SUITE G-110 COLLEGEVILLE, PA 19426 610-489-4580 WWW.YOHNENGINEERING.COM

VOHN



CONSULTED DURING WINTER GRADING OPERATIONS.





LOCATION MAP SCALE: 1" = 600'

REFERENCE PLANS: 1. BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED FOR RADNOR FAMILY

PRACTICE BY CONTROL POINT ASSOCIATES, INC., CHALFONT, PA, DATED MAY 2, 2014 AND LAST REVISED MAY 14, 2014. FILE NO. CP14056

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5. LIDAR TOPOGRAPHY AND OTHER GIS OBTAINED ELECTRONICALLY FROM SHAPE FILES DISTRIBUTED BY DELAWARE VALLEY REGIONAL PLANNING COMMISSION.

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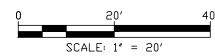
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PRELIMINARY PLANS

427 E. LANCASTER, LLC

44 PAPER MILL ROAD

NEWTOWN SQUARE, PA 19073

1 02/22/16 PER TWP ENGS

PROFESSIONAL

CHRISTOPHER C. YOH

COMMENTS

DATE

EXISTING CONDITIONS / DEMOLITION PLAN

DATE: EQUITABLE OWNER/APPLICANT

SCALE: ONE CALL NUMBER: DRAWN BY:

DECEMBER 31, 2015 '' = 20'2016-011-1937 CCY 15-031 PROJECT NUMBER:

YOHN ENGINEERING, LLC 555 SECOND AVENUE, SUITE G-110 COLLEGEVILLE, PA 19426 610-489-4580 WWW.YOHNENGINEERING.COM





Serial Number: 2016-011-1937 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

THE FOLLOWING COMPANIES WERE NOTIFIED BY PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER(S): 20141072620

UTILITY COMPANY PHONE NUMBER 215-233-3474 AT & T 215 841-4000 ZAYO BANDWIDTH 1-800-390-6094 AQUA PENNSYLVANIA, INC. 610-525-1400 720-888-0165 215-571-7050 LEVEL 3 VERIZON 888 240-8321 COMCAST CABLE 610 265-4448 RADNOR TOWNSHIP 610 688-5600

LEGEND

	LEGEND
	EXISTING CONTOUR
× 123.45	EXISTING SPOT ELEVATION
imes TC 123.45	EXIST. TOP OF CURB ELEVATION
imes G 122.95	EXIST. GUTTER ELEVATION
imesTW 123.45	EXIST. TOP OF WALL ELEVATION
imesBW 122.95	EXIST. BOTTOM OF WALL ELEVATION
× FF 123.45	EXIST. FINISHED FLOOR ELEVATION
<i>₩</i> ⋈	WATER VALVE
VALVE ⋈	UNKNOWN VALVE
<i>GV</i> ⋈	GAS VALVE
<u></u>	GAS METER
—— ОН ——	OVERHEAD WIRES
<i>G</i>	APPROX. LOC. UNDERGROUND GAS LINE
—— <i>T</i> ——	APPROX. LOC. UNDERGROUND TEL. LINE
w	APPROX. LOC. UNDERGROUND WATER LINE
UP # -	UTILITY POLE
UPLP #	UTILITY POLE/LIGHT POLE
	SIGN
•	MAIL BOX
A.G.	ABOVE GROUND
U.G.	UNDER GROUND
D.C.	DEPRESSED CURB
E.O.P.	EDGE OF PAVEMENT
<i>L.S.A</i> .	LANDSCAPED AREA
RRT WALL	RAILROAD TIE WALL
(TYP.)	TYPICAL
W) WMH	WATER MANHOLE
≡ СВ	CATCH BASIN OR INLET
10	PARKING SPACE COUNT
	DEPRESSED CURB
(TRACT I)	DEED DESIGNATION
1.0'	OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
<i>S.Y.L</i> .	SOLID YELLOW LINE
D.Y.L.	DOUBLE YELLOW LINE
НТ.	HEIGHT
DA.W.L.	DASHED WHITE LINE

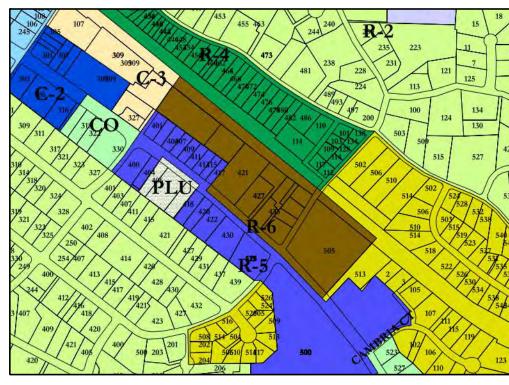
BLDG. BUILDING

EL. ELEVATION

	SO	ILS INFORMA	TION		
SYMBOL	NAME	%SLOPE	HYDROLOGIC GROUP	10 SH	DEPTH TO BEDROCK
Md	MADE LAND GABBRO AND DIABASE MATERIALS	NOT RATED	С	6.6+	6.6+

NOTES: IF THE PROPOSED EROSION AND SEDIMENTATION CONTROL MEASURES ARE INSTALLED AND MAINTAINED PROPERLY, NO UNFORESEEN SOIL LIMITATIONS OR PROBLEMS ARE LIKELY. NEVERTHELESS, IF A PROBLEM DOES DEVELOP, THE DEVELOPER MUST TEMPORARILY SEED AND MULCH THE DISTURBED AREA. SUITABLE TOPSOIL SHALL BE IMPORTED TO SITE IF INADEQUATE QUANTITIES OF SUITABLE TOPSOIL EXIST ON SITE. ADEQUACY OF SOIL TO BE DETERMINED BY SITE GEOTECHNICAL ENGINEER IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT. SOIL AMENDMENTS SHALL BE ADDED AS REQUIRED. ALL UNSUITABLE MATERIAL SHALL BE DISPOSED OF PROPERLY. SITE GEOTECHNICAL ENGINEER SHALL ALSO BE CONSULTED DURING WINTER GRADING OPERATIONS.





REFERENCE PLANS:

1. BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED FOR RADNOR FAMILY

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1. PROPERTY KNOWN AS FOLIO 36-02-01219-00 & 36-02-01219-01, BLOCK 61 AS IDENTIFIED ON THE TAX MAPS OF DELAWARE COUNTY, RADNOR TOWNSHIP, COMMONWEALTH OF PENNSYLVANIA. 2. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK—OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS—BUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR

POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. 3. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE

MATERIAL AS LISTED HEREON. 4. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.

LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL

5. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER REF. MAP NUMBER 42045C0017F AND 42045C0036F. MAP REVISED

6. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY. 7. ELEVATIONS ARE BASED UPON PA DOT BENCHMARK F101 REPUTED TO BE NAVD

1988 ELEVATION 343.57 8. UNDERGROUND STORM SEWER AND SANITARY SEWER PIPES ARE DRAWN GRAPHICALLY ON THIS SURVEY APPROXIMATE. UNDERGROUND STORM AND SANITARY PIPES SHOULD BE VERIFIED INDEPENDENTLY AS TO THEIR LOCATION. SIZE AND TYPE AND SHOULD BE CONSIDERED BY THE CONTRACTOR OR DESIGN

CONSULTANT PRIOR TO CONSTRUCTION. 9. THESE UNDERGROUND UTILITY COMPANIES DID NOT RESPOND TO PA ONE CALL REQUEST: ELECTRIC, GAS, AND TELEPHONE.

REFERENCE PLAN #1 REFERENCES: 1. MAP #015 OF THE OFFICIAL TAX MAPS OF THE RADNOR TOWNSHIP, DELAWARE

COUNTY, COMMONWEALTH OF PENNSYLVANIA. 2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, PENNSYLVANIA, DELAWARE COUNTY, PANEL 36 OF 250",

COMMUNITY-PANEL NUMBER 420428 0036 F, MAP REVISED: NOV 18, 2009. . MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, PENNSYLVANIA, DELAWARE COUNTY, PANEL 17 OF 250". COMMUNITY-PANEL NUMBER 420428 0017 F, MAP REVISED: NOV 18, 2009.

4. MAP ENTITLED "COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF HIGHWAYS,

DRAWING FOR CONSTRUCTION AND CONDEMNATION OF RIGHT OF WAY ROUTE NO. 142 SECTION NO. 1 IN DELAWARE COUNTY; FROM STA. 2882+35 TO STA. 2891+10, LENGTH 875.0 FT 0.166 MI," SHEETS 1-3. 5. MAP ENTITLED "AS BUILT SURVEY MADE FOR J. GORDON AND LOIS T.

LONGENECKER, RADNOR TOWNSHIP, DELAWARE COUNTY, PENNSYLVANIA," PREPARED BY YERKS ASSOCIATES, INC.,. DATE MARCH 28, 2002.PLAN D-36-13 384.

RECORD OWNER: WALKER FAMILY PROPERTIES, LLP

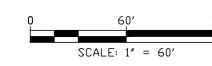
427 EAST LANCASTER AVENUE WAYNE, PA 19087 **EXISTING LOT DATA:**

TAX FOLIO NUMBER: 36-02-01219-00 36-13-384:000 TAX MAP NUMBER: 34,770 SF (0.7982 AC) SITE AREA: LOT AREA: 31,171 SF (0.7156 AC)

TAX FOLIO NUMBER: 36-02-01219-01 TAX MAP NUMBER: 36-13-384:001 19,852 SF (0.4557 AC) SITE AREA: LOT AREA: 19,252 SF (0.4420 AC)

EXISTING IMPERVIOUS COVERAGE: BUILDINGS & PORCHES

7,915 SF (14.5%) 726 SF WALKS PATIOS 969 SF ASPHALT DRIVES 14,168 SF GRAVEL DRIVES 1,506 SF OTHER 343 SF TOTAL 25,627 SF (46.9%)



PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT 427 EAST LANCASTER AVENUE, WAYNE, PA 19087 RADNOR TOWNSHIP DELAWARE COUNTY

PRELIMINARY PLANS

VICINITY PLAN

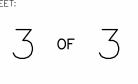
ÉQUITABLE OWNER/APPLICANT 427 E. LANCASTER, LLC 44 PAPER MILL ROAD NEWTOWN SQUARE, PA 19073

SCALE: ONE CALL NUMBER: DRAWN BY: PROJECT NUMBER:

DECEMBER 31, 2015 ' = 60'2016-011-1937 CCY 15-031

YOHN ENGINEERING, LLC 555 SECOND AVENUE, SUITE G-110 COLLEGEVILLE, PA 19426 610-489-4580 WWW.YOHNENGINEERING.COM





- 1. Base information including topography, grading, utilities, building and existing vegetation location prepared by Yohn Engineering, LLC, February, 2016.
- 2. Location of existing trees on adjacent properties are approximate based upon field observations conducted by Glackin Thomas Panzak, Inc., January 2016.
- 3. This plan is for landscaping purposes only.
- 4. The Landscape Architect's seal applies only to the landscape portion of this plan. 5. See Sheet LP-2 for Planting Details and Planting and Maintenance Notes.
- 6. All plant material is to be field adjusted as necessary to address existing site conditions, proposed unit landscaping, and to ensure that clear sight triangles and clear sight lines are maintained.
- 7. Proposed shade trees shall not be planted over the top of any sewer or water laterals, mains or services. Sewer and water laterals, mains and services are shown on Landscape Plans for reference only. See engineer's plans for location of all utilities.
- 8. Shade and evergreen trees shall be planted fifteen (15) feet from overhead utility lines or light standards. Utilities are shown on Landscape Plans for reference only. See
- engineer's plans for location of all utilities. 9. No planting shall be installed closer than five (5) feet to any property line.
- 10. All plantings shall be permanently maintained. 11. All trees shall be pruned as necessary to maintain required light levels.
- 12. Final location of all plant material proposed for adjacent properties shall be determined in the field in order to address existing conditions.

LEGEND:

EXISTING VEGETATION

PROPOSED DECIDUOUS TREE

PROPOSED ORNAMENTAL TREE

PROPOSED EVERGREEN TREE

PROPOSED SHRUBS

PROPOSED GROUND COVERS / PERENNIALS

EXISTING TREE TO BE REMOVED

SANDWICH BOARD FENCE

LANDSCAPE COMPLIANCE:

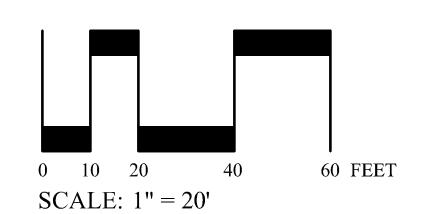
SECTION	CATEGORY		REQU	JIRED			PROV	/IDED	
		Shade Trees	Flowering Trees	Evergreen Trees	Shrubs	Shade Trees	Flowering Trees	Evergreen Trees	Shrubs
255-29.B.	PARKING FACILITY LANDSCAPE (1) 2.5" cal. per 5 Spaces of Single Bay Parking	2				2			
255-38.B.	STREET TREES (1) 2.5" cal. tree spaced at 30' o.c. Applied to 115 LF*	4				4			
255-42	BUFFER SCREENS CLASS B - Lancaster Ave. (Arterial Road Classification) Option of (1) Evergreen Tree per 15 LF and (1) Evergreen Shrub per 8 LF applied to 115 LF*	_	-	8	15			8	15
	TOTALS:	6		8	15	6		8	15

*Linear foot measurement does not include access driveway width.

PLANT LIST:

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECIDU	JOUS TR	EES			
AML	3	Amelanchier laevis	Allegheny Serviceberry	2"-2.5" cal.	B&B
BENH	2	Betula nigra 'Heritage'	Heritage River Birch	12'-14' ht.	B&B, Mult
CEJ	4	Cercidiphyllum japonicum	Katsura Tree	2"-2.5" cal.	B&B
COFC	4	Cornus florida 'Cherokee Princess'	Cherokee Princess Dogwood	2"-2.5" cal.	B&B
ZESV	4	Zelkova serrata 'Village Green'	Village Green Zelkova	2"-2.5" cal.	B&B
EVERG	REEN TR	RES			
ILAD	3	Ilex aquipernyi 'Dragon Lady'	Dragon Lady Holly	8'-10' ht.	Cont.
THGG	15	Thuja plicata 'Green Giant'	Green Giant Arborvitae	8'-10' ht.	B&B
		3 1			
SHRUB					
BUGM	32	Buxus x 'Green Mountain'	Green Mountain Boxwood	24"-30" ht.	Cont.
HYBW	7	Hydrangea 'Blue Wave"	Blue Wave Hydrangea	24"-30" ht.	Cont.
HYQR	15	Hydrangea quercifolia 'Ruby Slippers'	Ruby Slippers Oakleaf Hydrangea	24"-30" ht.	Cont.
ILCĤ	33	Ilex crenata 'Helleri'	Helleri Japanese Holly	24"-30" ht.	Cont.
PRLO	5	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Cherry Laurel	24"-30" ht.	Cont.
PRLS	12	Prunus laurocerasus 'Schipkaensis'	Skip Laurel	24"-30" ht.	Cont.
RORK	11	Rosa 'Red Knockout'	Red Knockout Rose	24"-30" ht.	Cont.
SPJL	9	Spiraea japonica 'Little Princess'	Little Princess Spiraea	24"-30" ht.	Cont.
SPJN	27	Spiraea japonica 'Neon Flash'	Neon Flash Spirea	24"-30" ht.	Cont.
VIDB	23	Viburnum dentatum 'Blue Muffin'	Blue Muffin Arrowwood Viburnum	24'-30' ht.	Cont.
VIP	25	Viburnum x pragense	Prague Viburnum	24"-30" ht.	Cont.
PERENI	NIALS &	GROUNDCOVERS			
CAPS	259	Carex pensylvancia	Pennsylvania Sedge	2 qt.	Cont. 12" o
ECPW	15	Echinacea purpurea 'White Swan'	White Coneflower	1 gal.	Cont. 18" o
LIMV	90	Liriope muscari 'Variegata'	Variegated Lilyturf	2 qt.	Cont. 12" o
PAVH	60	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	3 gal.	Cont.
VINES					
HYAP	1	Hydrangea anomala v. petiolaris	Climbing Hydrangea	3 gal.	Cont., On

1. Where there is a discrepancy between the plant list and plan, the plan shall prevail.

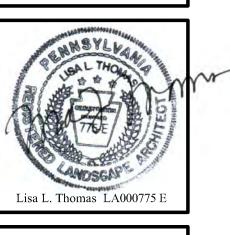




GLACKIN **THOMAS PANZAK** LAND PLANNING LANDSCAPE **ARCHITECTURE**

Glackin Thomas Panzak, Inc.

Paoli Executive Green 41 Leopard Road Paoli, Pennsylvania 19301 610.408.901 Fax: 610.408.9477 E-mail: plans@glackinplan.com



PROJECT #: 16-001 DATE: 2/22/16 (sa) REV.:

SHEET:

BE REJECTED.

DECIDUOUS TREE DETAIL

NTS

NOTE:
1. FLOOD PLANTING PIT WITH WATER TWICE WITHIN 24 HOURS OF PLANTING.

3.TREES THAT DO NOT DISPLAY THE TYPICAL CHARACTERISTICS FOR THEIR SPECIES SHALL

GUY SPACING DIAGRAM - APPLY ANTI-DESICCANT FOR FALL PLANTINGS. - PRUNE ONLY BROKEN OR DEAD BRANCHES. THREE (3) FLAT STRAPS OR WEBBING AT 120° AROUND TREE. TENSION OF STRAPS NOT TAUT TO ALLOW FOR SMALL AMOUNT OF TRUNK MOVEMENT. REMOVE AFTER ONE YEAR. REMOVE EXCESS SOIL FROM TOP OF ROOT BALL AND DETERMINE DEPTH OF ROOTBALL BEFORE DIGGING PIT OF PLACING TREE IN PIT. AFTER PLANTING, ROOT COLLAR SHALL BE SLIGHTLY HIGHER THAN THE ADJACENT FINISH GRADE AND TOPMOST MAJOR ROOTS SHALL BE I" BELOW FINISH GRADE. THREE (3) INCHES OF HARDWOOD BARK MULCH OR APPROVED EQUAL. DO NOT MOUND MULCH AGAINST TREE TRUNK. PLANT SAUCER - 3' \times 2" \times 2" HARDWOOD STAKE 120° APART. DRIVEN FLUSH TO FINISH GRADE. THREE (3) PER TREE. BACK FILL USING EXCAVATED TOPSOIL. MATER THOROUGHLY TO ELIMINATE AIR POCKETS. DO NOT COMPACT. REMOVE BURLAP FROM THE TOP 1/3 OF ROOT BALL. REMOVE ALL NON-ORGANIC MATERIAL FROM ENTIRE BALL. FOR WIRE 2.5 TIMES BASKETS, CUT TOP 2/3 AND REMOVE FROM PIT AFTER POSITIONED AND READY FOR ROOTBALL DIAMETER

2 EVERGREEN TREE DETAIL

NTS

1. FLOOD PLANTING PIT WITH WATER TWICE WITHIN 24 HOURS OF PLANTING.

SHRUB DETAIL

NTS

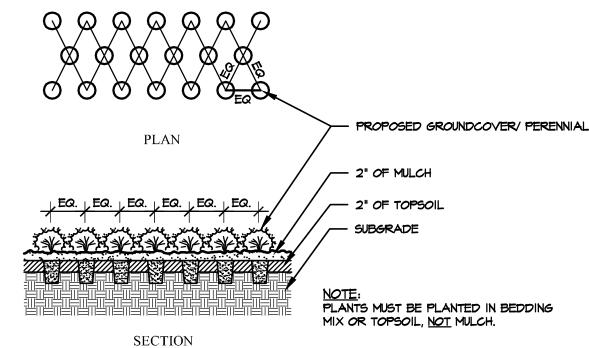
NOTE:

1. FLOOD PLANTING PIT WITH WATER T

2.5 TIMES

ROOTBALL DIAMETER

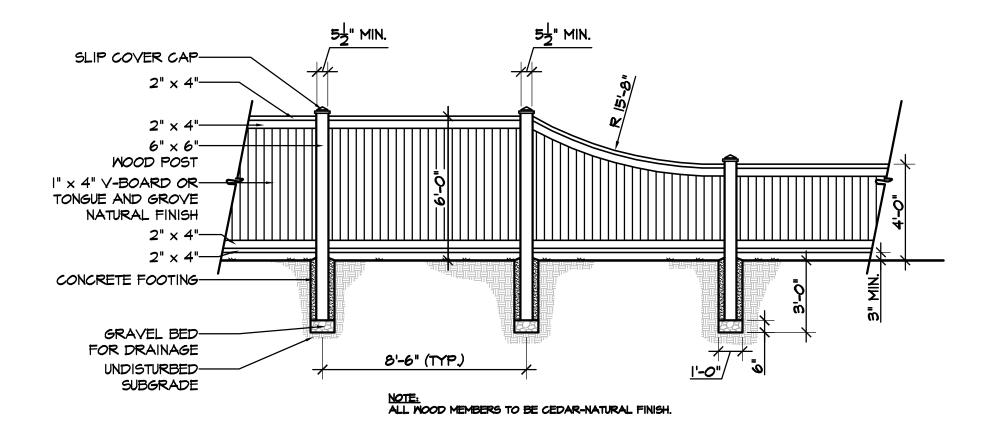
NOTE: 1. FLOOD PLANTING PIT WITH WATER TWICE WITHIN 24 HOURS OF PLANTING.



PLANTING DETAIL

NOTE:

NOTE:
PLANTS MUST BE PLANTED IN BEDDING MIX OR TOPSOIL NOT MULCH



5 SANDWICH BOARD FENCE

3. All plants shall be in accondition.

FOR EVERGREEN SHRUBS APPLY ANTI-DESICCANT TO ENTIRE PLANT

AT RECOMMENDED RATES AND

- PRUNE ONLY BROKEN OR DEAD BRANCHES.

REMOVE EXCESS SOIL FROM TOP OF ROOT BALL.

BACK FILL USING EXCAVATED TOPSOIL. WATER THOROUGHLY TO ELIMINATE AIR POCKETS. DO NOT

- BALL AND BURLAPPED SHRUBS
REMOVE BURLAP FROM THE TOP 1/3 OF
ROOT BALL. REMOVE ALL
NON-ORGANIC MATERIAL FROM ENTIRE

CONTAINER SHRUBS
REMOVE CONTAINER COMPLETELY.
MAKE 3 TO 4 CUTS THE LENGTH OF THE

SLIGHTLY HIGHER THAN THE ADJACENT FINISH GRADE.

- THREE INCHES (3") OF HARDWOOD MULCH OR APPROVED EQUAL. DO NOT MOUND MULCH AGAINST SHRUB.

PLANT SAUCER

3. All plants shall be in accordance with The American Standard for Nursery Stock, latest edition.

4. All plants shall be hardy under elimatic conditions similar to those in the legality of the

The contractor shall furnish and plant all plants shown on the drawings, as specified, and in

4. All plants shall be hardy under climatic conditions similar to those in the locality of the project.

5. Fall Digging Hazard: Any species listed below, if included on the plant list, must not be dug in the fall (October through December) because of risk to the tree's survival. Special exceptions may be granted if the owner is notified in writing and an extended warranty on these plants is agreed upon prior to digging. The following varieties should not be dug in fall: Betula, Carpinus, Celtis, Cercidiphyllum, Crataegus, Cryptomeria, Fagus, Halesia, Ilex (tree form varieties), Liquidambar, Liriodendron, Nyssa, Ostrya, Prunus, Pyrus, Quercus (except Quercus palustris), Salix weeping varieties, and Tilia tomentosa. Digging for Malus and Zelkova varieties should be avoided in fall only when in leaf.

6. All plants shall be typical of their species or variety and shall have a normal habit or growth. They shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They shall be certified by appropriate State and Federal authorities to be free of disease and insect pests, eggs or larvae. They shall have healthy, well-developed root systems.

7. Trees with central leader broken or dead shall be rejected

PLANTING NOTES:

quantities indicated on the plant list.

2. All plants shall be nursery grown and freshly dug.

8. Plants that do not display typical characteristics for their species shall be rejected.
9. Substitutions: When plants of a specified kind or size are not available within a reasonable distance, substitutions may be made upon written request by the contractor, if approved by the owner and/or municipal authority.

10. Measurement: Dimensions of trees and shrubs shall conform to The American Standard for Nursery Stock, latest edition.

11. Size: All plants shall conform to the measurement specified on the plant list, unless authorized in writing by the Township landscape architect and the owner.

12. Balled and burlapped plants shall be dug with firm natural balls of earth, of diameter and depth to include most of the fibrous roots. Container grown stock shall have been grown in a container long enough for the root system to have developed sufficiently to hold its soil together firm and whole. No plants shall be loose in the container.

13. Plants with poor quality root balls or root balls that have been cracked or damaged shall be

14. Root balls of all plants shall be adequately protected at all times from sun and drying winds

or frost.

15. Conditions detrimental to plants: The contractor shall notify the project representative in writing of all soil or drainage conditions which the contractor considers detrimental to the growth of plants. The contractor shall state the conditions and submit a proposal for correcting the conditions, including any change in cost, for review and acceptance by the project representative.

16. The owner or the owner's representative shall be notified prior to beginning planting operations.

17. All planting shall be at the locations indicated on the drawings. The contractor shall be responsible for planting at the correct grades, alignment, and to the indicated layout of the planting beds.

18. Layout of planting: The contractor shall lay out with identifiable stakes the location of all planting beds as indicated on drawing. The layout of planting shall be approved by the project representative prior to any excavation of plant pits or plant beds.

19. Minor adjustments to plant locations may be necessary due to field conditions and final grading. The contractor shall notify the owner if major adjustments are required.

20. Planting soil shall be excavated native soil from the planting pit. Planting soil shall be thoroughly mixed, with all rocks, clods and roots removed.

21. Plants with broken root balls or excessive damage to the crown shall be replaced prior to planting.

22. If needed, trees shall be staked and guyed according to accepted industry practice.

23. Each tree and shrub shall be pruned in accordance with The American Nursery and Landscape Association Standards to preserve the natural character of the plant. All dead wood or suckers and all broken or badly bruised branches shall be removed.

24. Mulch: Immediately after planting operations are completed, all trees and shrub planting pits shall be covered with a 3" (three inch) layer of double shredded hardwood bark mulch, or other material approved by the owner or the owner's representative. A granular pre-emergent weed control shall be spread prior to mulching. The limit of this mulch for deciduous trees and single evergreen trees shall be the area of the pit. For shrub and perennial beds and for evergreen tree clusters, a continuous, mulched bed shall be created.

25. Trees in leaf, including evergreens, when planted shall be treated with anti-desiccant such as Wilt-Pruf® if planted during the months of June through September, November, and December.

26. Weed control: All planting areas shall be free from weeds prior to the beginning of planting operation. Contact herbicide sprays should only be used as required and all manufacturer's specifications followed.

27. Guarantee: All plant material shall be guaranteed by the contractor for twenty four (24) months from the date of installation. The owner shall be responsible for maintenance unless otherwise agreed with contractor. It shall be the contractor's responsibility to monitor the project during the guarantee and notify the owner if problems develop with the plant material. Any material that is 25 % dead or more shall be considered dead and must be replaced at no charge. A tree shall be considered dead when the main leader has died back, or there is 25% of the crown dead.

28. All debris resulting from landscape contracting operations shall be cleaned up and removed from the site on a weekly basis.

29. Watering: Landscape contractor is responsible for watering sufficiently at the time of planting and until the job is completed, accepted and turned over to the owner.

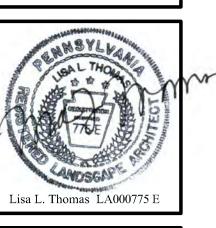
30. All plant material shall be installed in accordance with the planting practices stated in chapter 5 of <u>Pirone's Tree Maintenance</u> by: J. Hartman, T. Pirone and M. Sall (seventh or most recent edition).

GLACKIN
THOMAS
PANZAK
LAND PLANNING
LAND SCAPE

☐ Glackin Thomas Panzak, Inc

ARCHITECTURE

Paoli Executive Green Suite 300 Suite 300 41 Leopard Road Paoli, Pennsylvania 1930 610.408.901 Fax: 610.408.9477 E-mail: plans@glackinplan.com



TES & DETAILS

CHUC

NNSYLVANIA

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ANDSC

Y/FINAL

PRELIMINAR

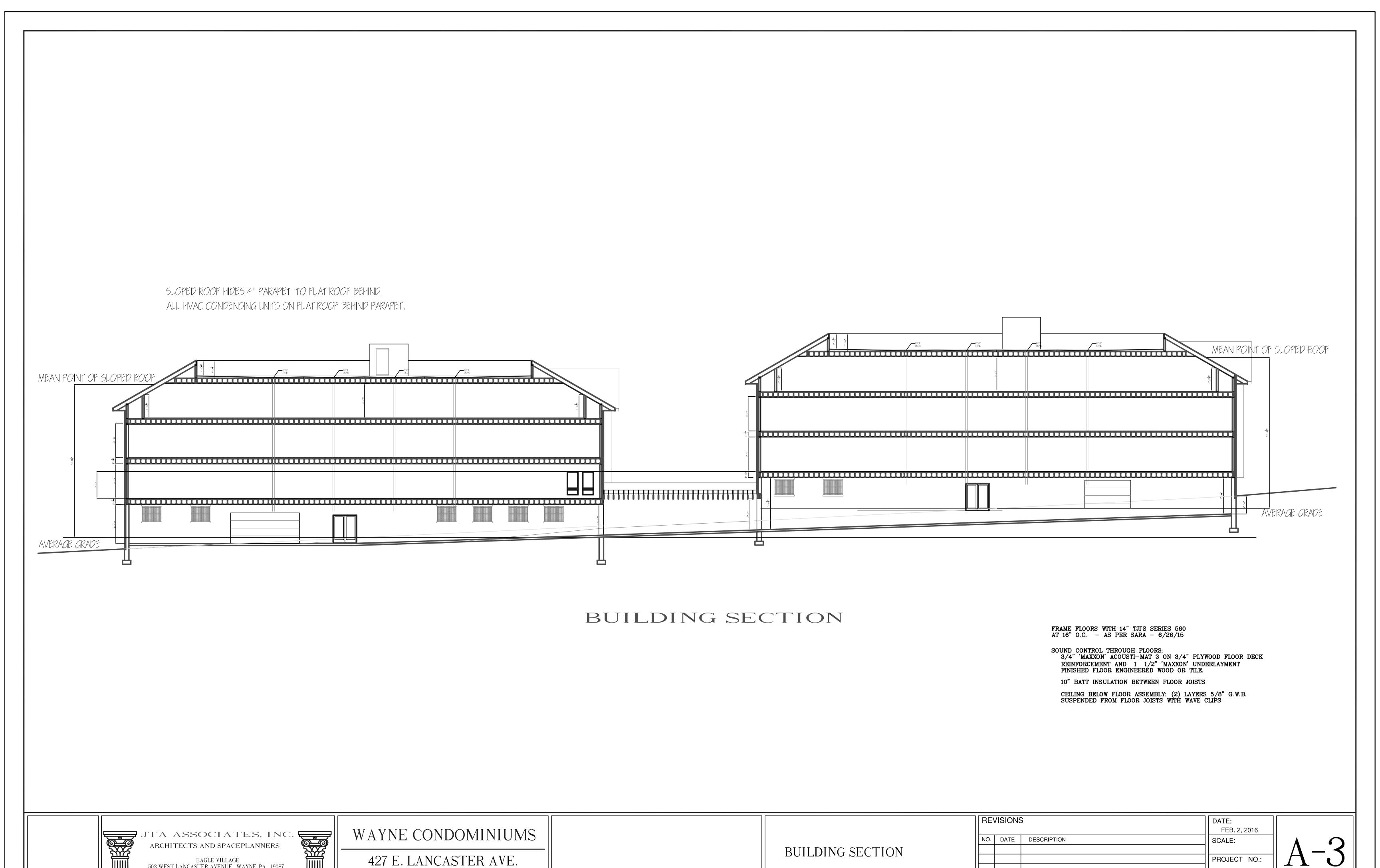
427 Lancaster Avet Radnor township, delaware county, penns

PROJECT #: 16-001 DATE: 2/22/16 (sa) REV.:

SHEET:

LP-2

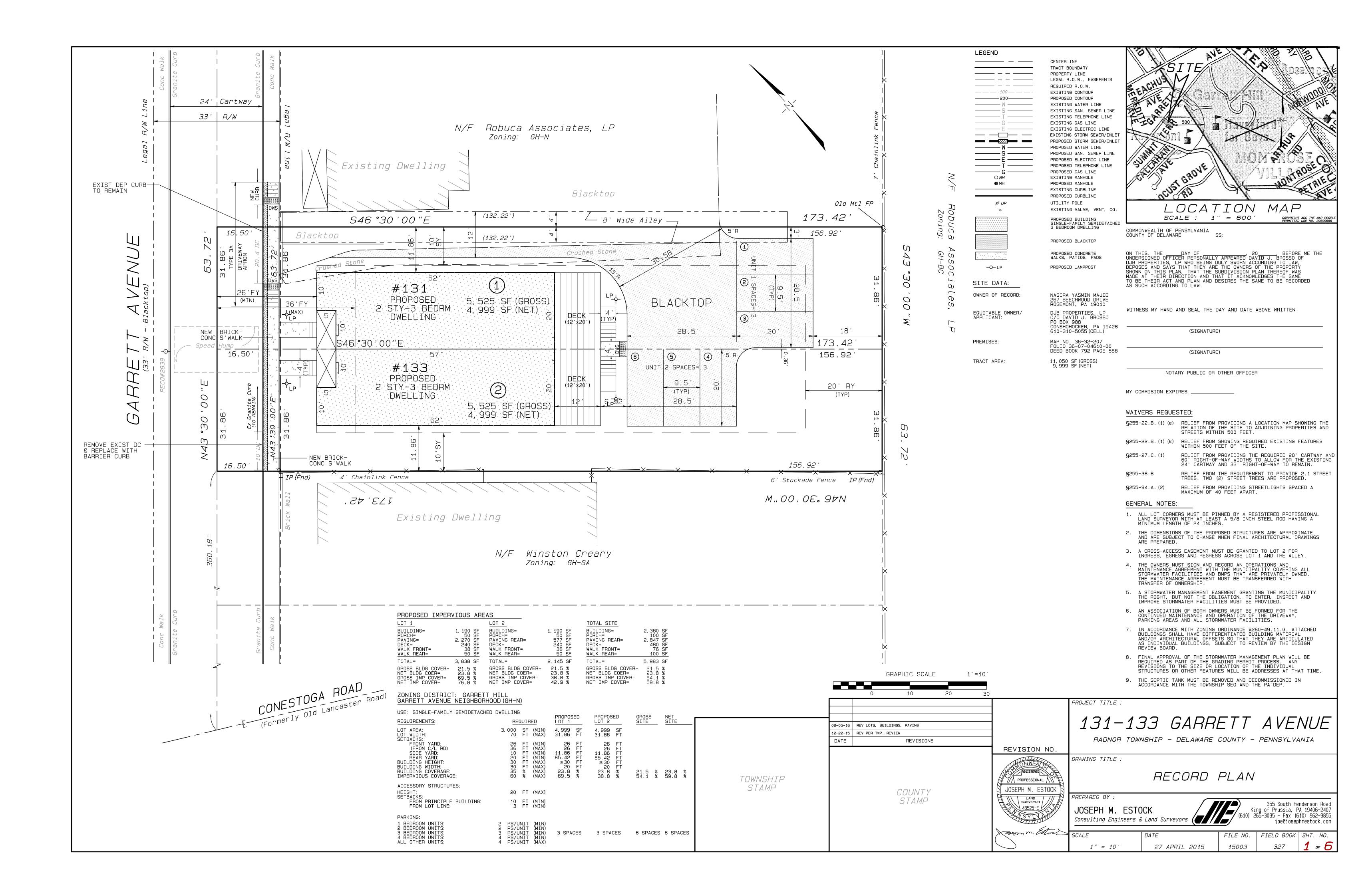
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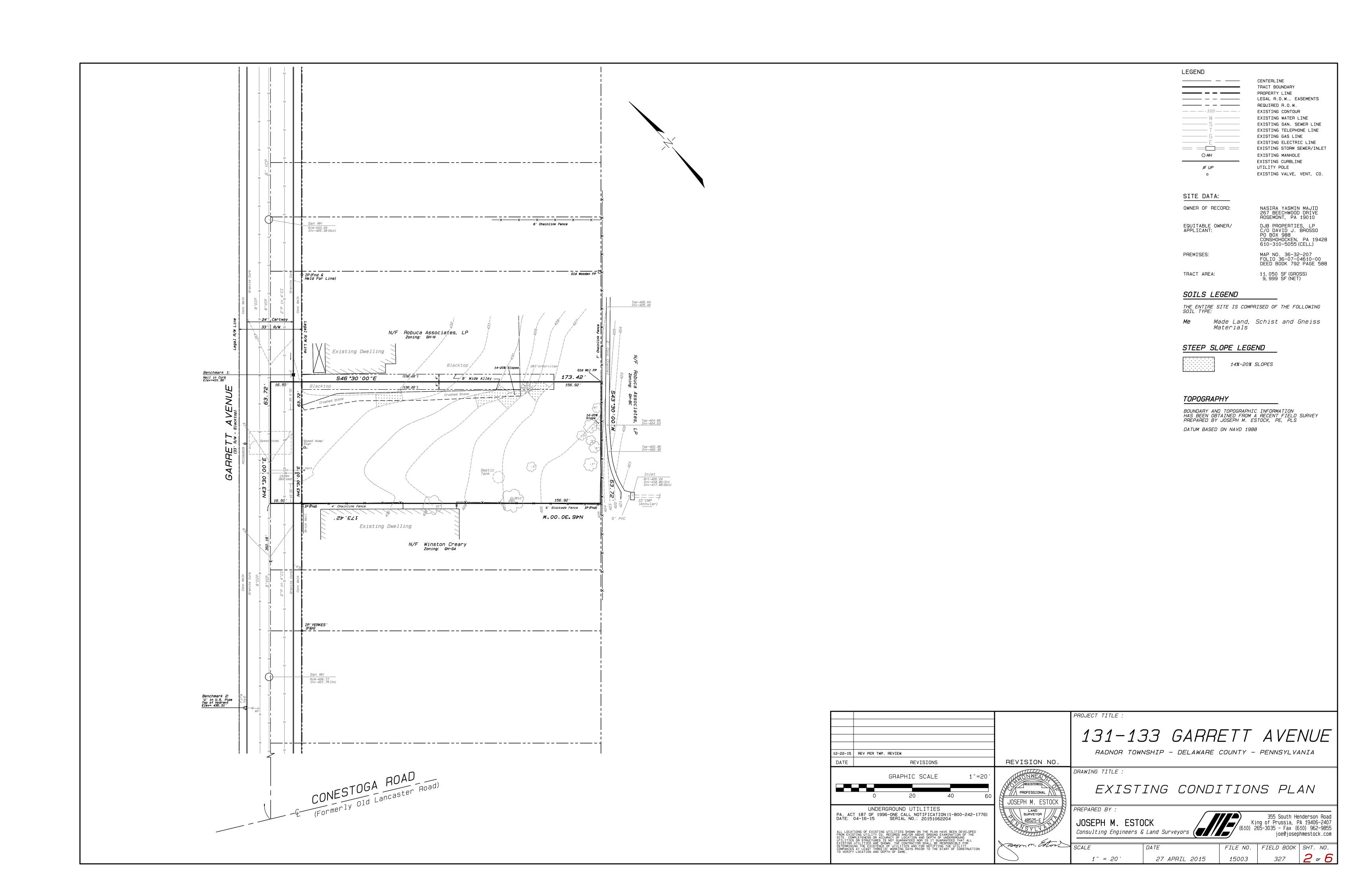


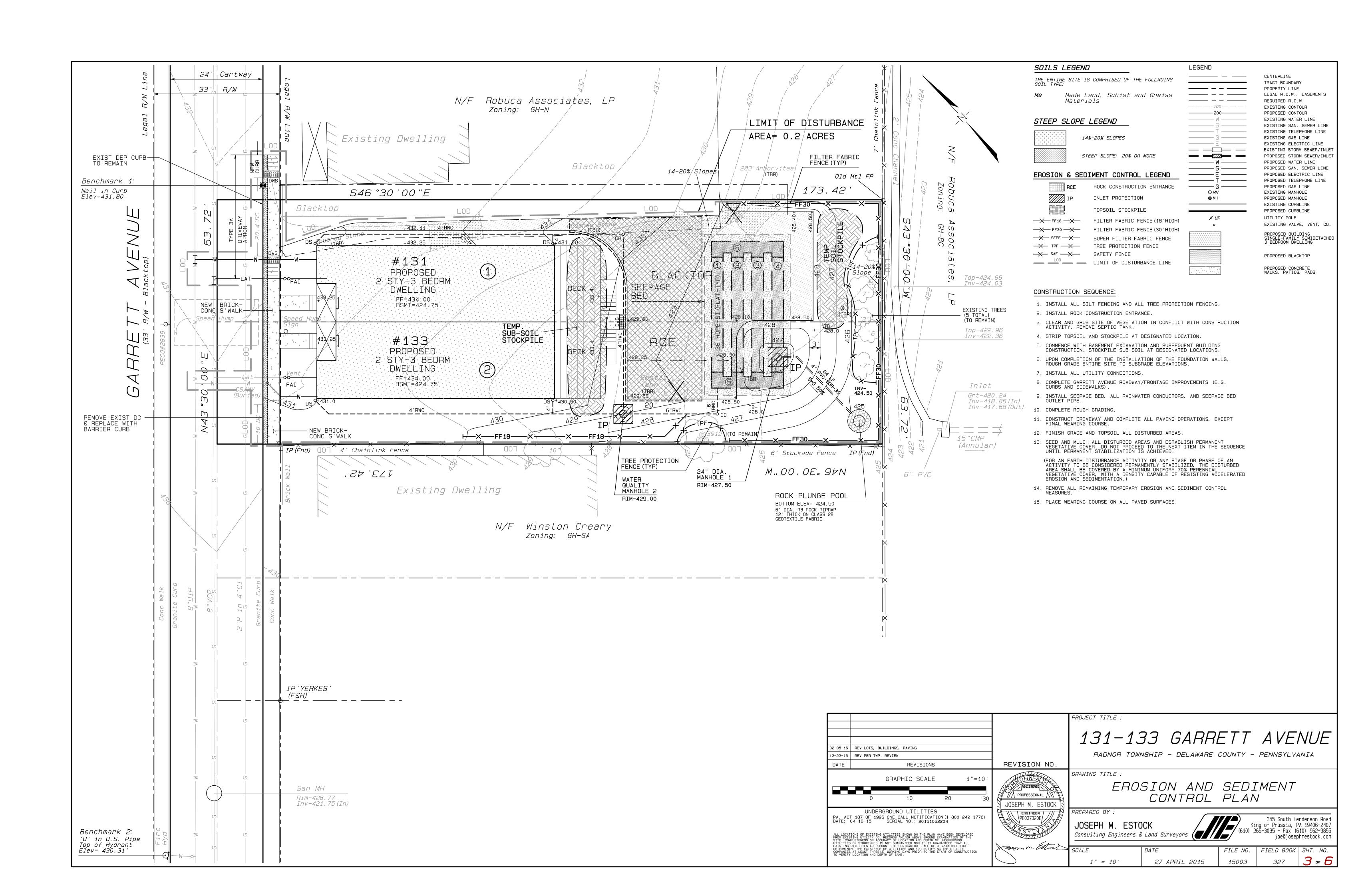
ISSUE DATE:

503 WEST LANCASTER AVENUE, WAYNE, PA. 19087 PHONE (610) 687-0800 FAX (610) 687-8717

WAYNE, PA 19087







EROSION AND SEDIMENTATION CONTROL NOTES

- 1. EROSION AND SEDIMENT BMP'S MUST BE CONSTRUCTED, STABILIZED AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMP'S.
- 2. STORMWATER INLETS WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED.
- 3. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2: 1 OR FLATTER.
- 4. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMP'S MUST BE STABILIZED IMMEDIATELY.
- 6. ONLY LIMITED DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO THE CONTROLS FOR GRADING AND ACQUIRING BORROW TO CONSTRUCT THOSE CONTROLS.
- 7. AT LEAST THREE DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITY LOCATIONS.
- 8. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE.
- 9. THE PROJECTS RECEIVING WATERCOURSE IS MEADOWBROOK RUN WITHIN THE DARBY CREEK WATERSHED, AND THE CHAPTER 93 CLASSIFICATION IS CWF, MF
- FILTER FABRIC FENCING & STRAW BALE BARRIERS
- FILTER FABRIC FENCING AND STRAW BALE BARRIERS MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE OR BARRIER SECTION MUST EXTEND 8 FEET UP SLOPE AT 45 DEGREES TO THE ALIGNMENT OF THE MAIN FENCE OR BARRIER.
- 2. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH ½ THE ABOVE GROUND HEIGHT OF FILTER FABRIC FENCING OR 1/3 THE ABOVE GROUND HEIGHT OF STRAW
- 3. ANY FILTER FABRIC FENCING OR STRAW BALE BARRIER WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH ROCK FILTER OUTLETS. 4. STRAW BALE BARRIERS SHOULD NOT BE USED FOR MORE THAN 3 MONTHS.
- SEDIMENT REMOVAL
- 1. SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT.
- ALL SILT AND FOREIGN MATTER SHALL BE REMOVED FROM THE TOP OF AND PROPERLY DISPOSED OF BEFORE WEARING SURFACE IS INSTALLED. 3. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
- 4. SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED OR PLACED IN TOPSOIL STOCKPILES.
- 1. MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE OPERATOR DURING CONSTRUCTION.
- THE RETENTION/SEDIMENT BASIN WILL BE CONSTRUCTED AND MAINTAINED BY THE OPERATOR. THE MAINTENANCE OF THIS BASIN WILL BE TRANSFERRED TO THE PERMITTEE UPON THE COMPLETION OF FINAL STABILIZATION.
- 3. THE OPERATOR IS RESPONSIBLE FOR PROVIDING DIVERSION TRENCHES, EROSION CHECKS, BERMS, ETC., OR OTHER MEANS OF ACCEPTED PRACTICE AS REQUIRED ON THE SITE TO PREVENT ACCELERATED RUNOFF AND EROSION, WHICH MAY NOT BE INDICATED, BUT IS WITHIN THE TRIBED OF THIS BLAN.
- 5. SHOULD ANY MEASURES CONTAINED WITHIN THIS PLAN PROVE INCAPABLE OF ADEQUATELY REMOVING SEDIMENT FROM ON-SITE FLOWS PRIOR TO DISCHARGE OR OF STABILIZING THE SURFACES INVOLVED, ADDITIONAL MEASURES MUST BE IMMEDIATELY IMPLEMENTED BY THE OPERATOR TO ELIMINATE ALL SUCH PROBLEMS.
- 6. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S OR MODIFICATIONS TO THOSE INSTALLED WILL BE REGUIRED.
- THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEG., 271.1 ET SEG. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THIS SITE.
- 8. IT IS THE INTENT OF THIS PLAN TO MEET REQUIREMENTS OF SOIL EROSION CONTROL.
- 9. THE OPERATOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART I, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE II, WATER RESOURCES, CHAPTER 102 EROSION CONTROL.
- 10. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- 11. AT ANY TIME PRIOR TO STABILIZATION SHOULD ANY E & S PROBLEMS OCCUR WHICH REQUIRE ADDITIONAL MEASURES, IMMEDIATE ACTION MUST BE TAKEN TO CORRECT THE PROBLEM.
- 12. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
- 13. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- 14. ONLY LIMITED DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO BMP'S FOR GRADING AND ACQUIRING BORROW TO CONSTRUCT THOSE BMP'S.
- 15. AT STREAM CROSSINGS, 50 FOOT STREAM BANK BUFFER AREAS SHOULD BE MAINTAINED. ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCAVATION, AND EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITIES SUCH AS STACKING CUT LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE ACCOMPLISHED OUTSIDE OF BUFFERS.
- MULCHING
- MULCHING OF DISTURBED OR SEEDED AREA SHALL BE FURNISHED, PLACED, ANCHORED AND MAINTAINED IN ACCORDANCE WITH PENNDOT PUBL. 408, SECTION 805.
- 2. MULCHING SHALL BE PLACED IMMEDIATELY AFTER SEEDING OR WITHIN 48 HOURS AFTER SEEDING IS COMPLETE.
- HAY OR STRAW SHALL BE UNIFORMLY PLACED IN A CONTINUOUS BLANKET, AT A MINIMUM RATE OF 3.0 TONS PER ACRE.
- MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS SHOULD BE INSTALLED ON ALL SLOPES 3: 1 OR STEEPER.
- 5. STRAW MULCH SHOULD BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN SEEDING
- 1. SEEDING SHALL BE PLACED IN ACCORDANCE WITH PENNDOT PUBL. 408, SECTION 804. SEED FORMULAS:

FORMULA AND SPECIES	% BY WT	MIN. % PURITY	MIN. % GERMIN- ATION	MAX. % WEED	SEEDING RATE LBS/1000 SQ. YDS.
FORMULA B * PERENNIAL RYEGRASS MIXTURE * CREEPING RED FESCUE OR CHEWINGS FESCUE	20 30	98 98	90 85	0.15 0.15	21.0 TOTAL 4.0 6.0
* KENTUCKY BLUEGRASS MIXTURE	50	98	80	0.20	11.0
FORMULA C * CROWNVETCH * ANNUAL RYEGRASS	45 55	99 98	70 90	0.10 0.15	9.0 TOTAL 4.0 5.0
FORMULA D * TALL FESCUE * CREEPING RED FESCUE OR CHEWINGS FESCUE	70 30	98 98	85 85	0.15 0.15	21.0 TOTAL 15.0 6.0
FORMULA E * ANNUAL RYEGRASS	100	98	90	0.15	10.0 TOTAL 10.0
FORMULA L * HARD FESCUE MIXTURE * CREEPING RED FESCUE * ANNUAL RYEGRASS	55 35 10	98 98 98	85 85 9	0.15 0.15 0.15	24.0 TOTAL 13.0 8.5 2.5
FORMULA W * TALL FESCUE * BIRDSFOOT TREFOIL MIXTURE * REDTOP	70 20 10	98 98 92	85 80* 80	0.15 0.10 0.15	10.5 TOTAL 7.5 2.0 1.0

* MINIMUM 20% HARD SEED AND 60% NORMAL SPROUTS 3. APPLICATION DATES:

FORMULA W

FORMULA B, D, & L FORMULA C RYEGRASS PORTION:

CROWNVETCH PORTION: ANYTIME EXCEPT SEPTEMBER & OCTOBER FORMULA E MARCH 15 TO OCTOBER 15

APRIL 1 TO JUNE 15 AUGUST 16 TO SEPTEMBER 15

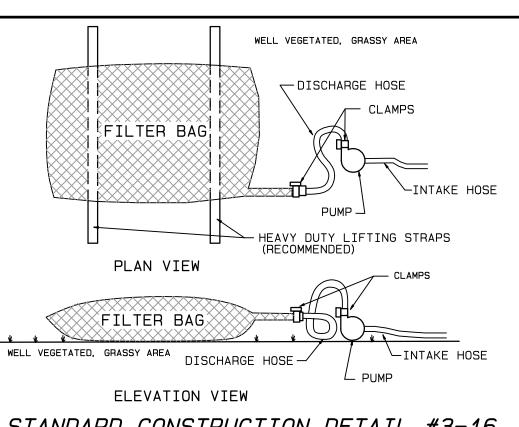
MARCH 1 TO OCTOBER 15

4. SOIL SUPPLEMENTS MAY BE ADDED IN ACCORDANCE WITH SECTION 804 OR AS FOLLOWS: FERTILIZER - STANDARD QUALITY 0-20-20 BASIC FERTILIZER 10-10-10 STARTER FERTILIZER

LIME - AGRICULTURAL LIMESTONE 90% MINIMUM OF CARBONATES 500 LBS. PER 1000 S.Y.

5. FORMULA B SHALL BE USED TO ESTABLISH FINAL VEGETATION IN LAWN AREAS, FORMULA D SHALL BE USED TO ESTABLISH FINAL VEGETATION IN ROUGH AREAS, AND FORMULA E SHALL BE USED TO ESTABLISH TEMPORARY VEGETATION. FORMULAS C, L, AND W SHALL BE USED AS SPECIFICALLY INDICATED ON THE PLAN.

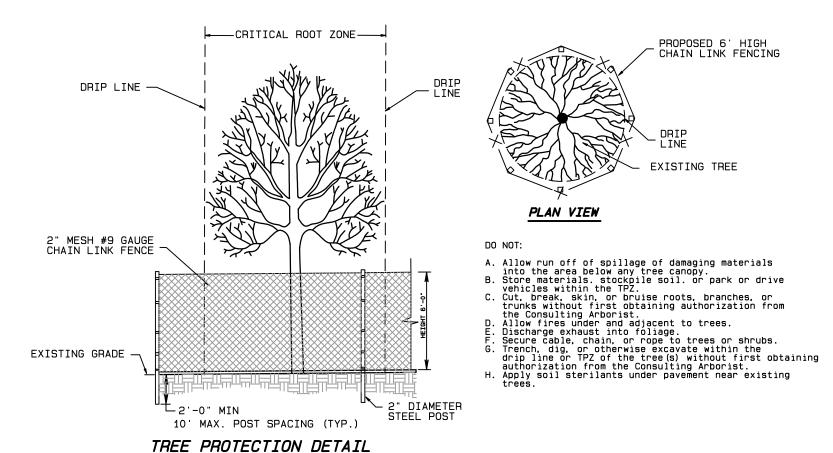
- G. SEEDING AND MULCHING SCHEDULE
- THE DIVERSIONS, CHANNELS, SEDIMENT BASINS, SEDIMENT TRAPS, AND STOCKPILES, WHEN USED, MUST BE STABILIZED IMMEDIATELY. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
- 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 AND OTHER
- H. UTILITY LINE TRENCH EXCAVATION
 - LIMIT ADVANCE CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE
 - B. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS
 - C. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED IN THE SAME DAY.
- D. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE.
- E. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.
- F. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
- G. SOILS EXCAVATED FROM EXISTING SURFACE LAYER SHOULD BE STOCKPILED SEPARATELY AND RETURNED AS FINAL SURFACE LAYER FOLLOWING TRENCH BACKFILLING.
- TRENCH PLUGS WILL BE SPACED IN ACCORDANCE WITH AND BE CONSTRUCTED OF THE MATERIALS AS INDICATED ON THE TRENCH PLUG DETAIL.
- (1) AT ALL CROSSINGS OF WATERS OF THE COMMONWEALTH, TRENCH PLUGS WILL BE INSTALLED AT THE BANKS AFTER TRENCH EXCAVATION. THE PLUGS MAY BE TEMPORARILY REMOVED WHEN PLACING THE PIPE, BUT THEN
- (2) CONSTRUCTION OF THE CROSSING WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE "PIPELINES AND UTILITY LINE PROJECTS" SECTION OF THE EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL
- 2. EXCEPTIONS IN CERTAIN CASES TRENCHES CANNOT BE BACKFILLED UNTIL THE PIPE IN HYDROSTATICALLY TESTED, OR ANCHORS AND OTHER PERMANENT FEATURES INSTALLED. IN THESE CASES, ALL OF THE REQUIREMENTS LISTED UNDER ITEM 1 WILL REMAIN IN EFFECT WITH THE
- 1C. DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR SIX DAYS. ALL PRESSURE TESTING AND THE COMPLETE BACKFILLING OF THE OPEN TRENCH MUST BE COMPLETED BY THE SEVENTH WORKING DAY
- 1E. IF DAILY BACKFILLING IS DELAYED, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS, APPROPRIATE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES/FACILITIES WILL BE INSTALLED, AND THE AREAS SEEDED AND MULCHED WITHIN THE NEXT TWO CALENDAR DAYS.
- IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH THE CONTRACTOR.
- CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE).
- CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULA TED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".
- 4. ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS.
- . ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULA TED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".
- FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.pacode.com.



STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG

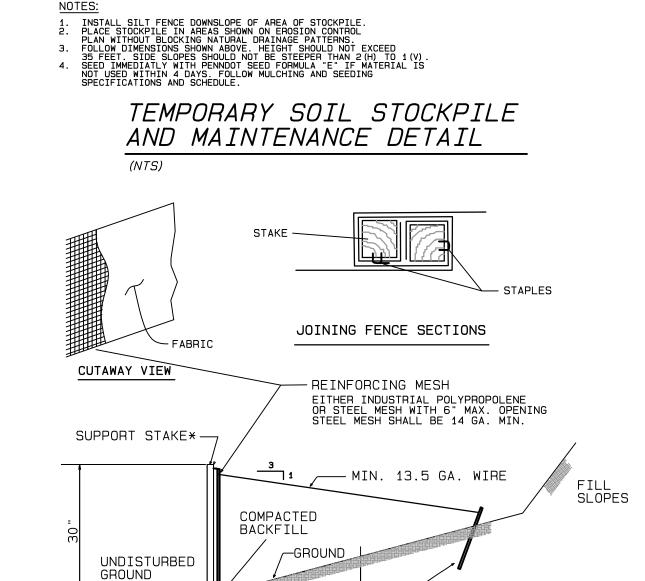
LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE STANDARDS LISTED INTHE EROSION AND SEDIMENT POLITICAL CONTROL PROGRAM MANUAL A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREAS, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES GREATER THAN 5%. CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED THE PAGE TO DECLIFE SLOPE STEEPINESS. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAIALBLE. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHOULD BE NO GREATER THAN 750 GPM OR 1/2 RHE MAXIMUM SPECIFIED SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.



TREE PROTECTION SPECIFICATIONS

- A 4" layer of coarse mulch or woodchips is to be placed beneath the drip line of the protected trees. Mulch is to be kept 12" from the trunk.
- II. A protective barrier of 6 foot chain link fencing shall be installed around the drip line of protected tree(s). The fencing can be moved within the drip line if authorized by the Consulting Arborist but not closer than 2 feet from the trunk of any tree. Fence posts shall be 2 inches in diameter (and are to be driven 2 feet into the ground. The distance between posts shall not be more then 10 feet. This enclosed area is the Tree Protection Zone (TPZ).
- III. Movable barriers of chain link fencing secured to concrete blocks can be substituted for "fixed" fencing if the Consulting Arborist agrees that the fencing will have to be moved to accommodate certain phases of construction. The builder may not move the fence without authorization from the Consulting Arborist
- Consulting Arborist. IV. Where the Consulting Arborist has determined that tree protection fencing will interfere with the safety of work crews, Tree Wrap may be used as an alternative form of tree protection. Wooden slats at least one inch thick are to be bound securely, edge to edge, around the trunk. A single layer or more (of orange plastic construction fencing is to be wrapped and secured around the outside of the wooden slats. Major scaffold limbs may require protection as determined by the Consulting Arborist. Straw waddle may also be used as a trunk wrap by coiling the waddle around the trunk up to a minimum height of six feet from grade. A single layer or more of orange plastic construction fencing is to be wrapped and secured around the straw waddle.



FLOW LINE

STOCKPILE

<u>PLAN</u>

ELEVATION

_EXTEND FOR 8' UPSLOPE @ 45°

STANDARD FILTER

(18" HIGH - TYP)

STANDARD FILTER - FABRIC FENCE

(18" HIGH - TYP)

1"X2"X12" STAKES

TOE ANCHOR

X seom m. Estor

* STAKES SPACED @ 8' MAXIMUM. USE 2"X2"X48"(+/-3/8") WOOD OR EQUIVALENT STEEL (U OR T) STAKES.

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL. FABRIC WIDTH SHALL BE 42" MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) SATKES. AN 18" SUPPORT STAKE SHALL BE DRIVEN 12" MINIMUM INTO UNDISTURBED GROUND.

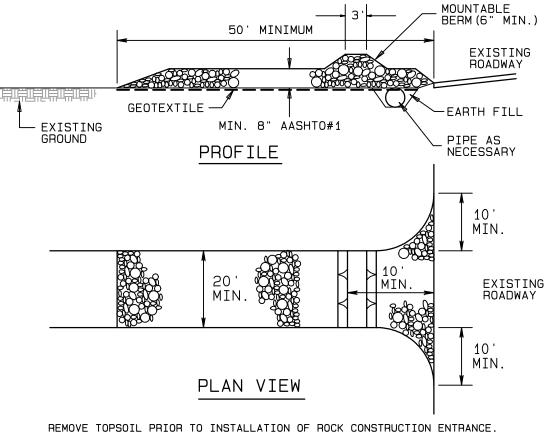
<u>6" MIN</u>.

6" MIN

SILT FENCE SHALL BE INSTALLED AT EXISTING LEVEL GRADE. BOTH ENDS OF FENCE SECTION SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

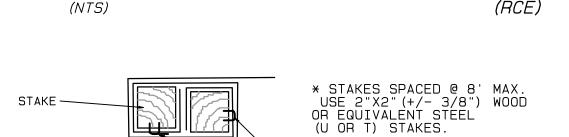
SEDIMENT SHALL BE REMOVED WHERE ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE. ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEE STANDARD CONSTRUCTION DETAIL #4-6.

STANDARD CONSTRUCTION DETAIL #4-8 REINFORCED SILT FENCE (30" HIGH) (NTS)

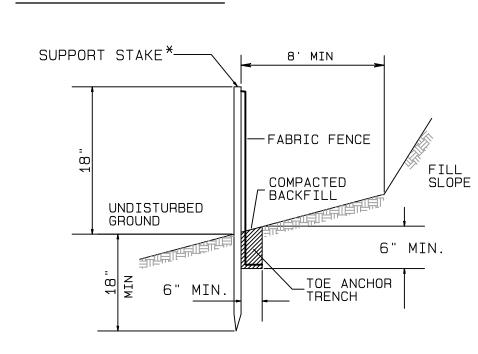


REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK ENTRANCE . MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE 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 WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. ANY SEDIMENT LOCATED ON THE PUBLIC ROADWAY SHOULD BE REMOVED IMMEDIATELY AND RETURNED TO THE CONSTRUCTION SITE. STANDARD CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE



JOINING FENCE SECTIONS

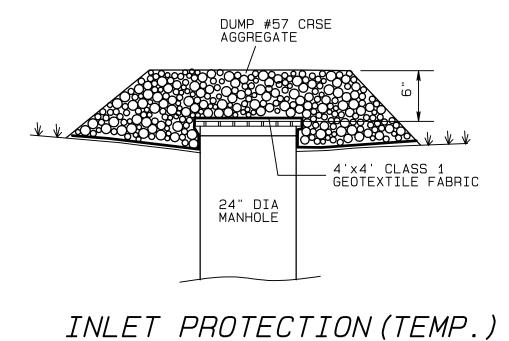


ELEVATION VIEW

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3. FABRIC WIDTH SHALL BE 30" MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEE STANDARD CONSTRUCTION DETAIL #4-6. FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY ARE IS PERMANENTLY STABILIZED

STANDARD CONSTRUCTION DETAIL #4-7 STANDARD SILT FENCE (18" HIGH)

(SF18)



MANHOLES 1 & 2

02-05-16 REV DETAILS 12-22-15 REV PER TWP. REVIEW REVISION NO. DATE REVISIONS REGISTERED // PROFESSIONAL / JOSEPH M. ESTOCK UNDERGROUND UTILITIES ENGINEER / PA. ACT 187 OF 1996-ONE CALL NOTIFICATION (1-800-242-1776) DATE: 04-16-15 SERIAL NO.: 20151062204 *┧∖*//\\\ |PE037320E| / ALL LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY CO. RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES IS NOT GUARANTEED NOR IS IT GUARANTEED THAT ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXISTENCE OF UTILITIES AND FOR NOTIFYING THE UTILITY COMPANIES AT LEAST THREE(3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO VERIFY LOCATION AND DEPTH OF SAME.

PROJECT TITLE 131-133 GARRETT AVENUE

RADNOR TOWNSHIP - DELAWARE COUNTY - PENNSYLVANIA

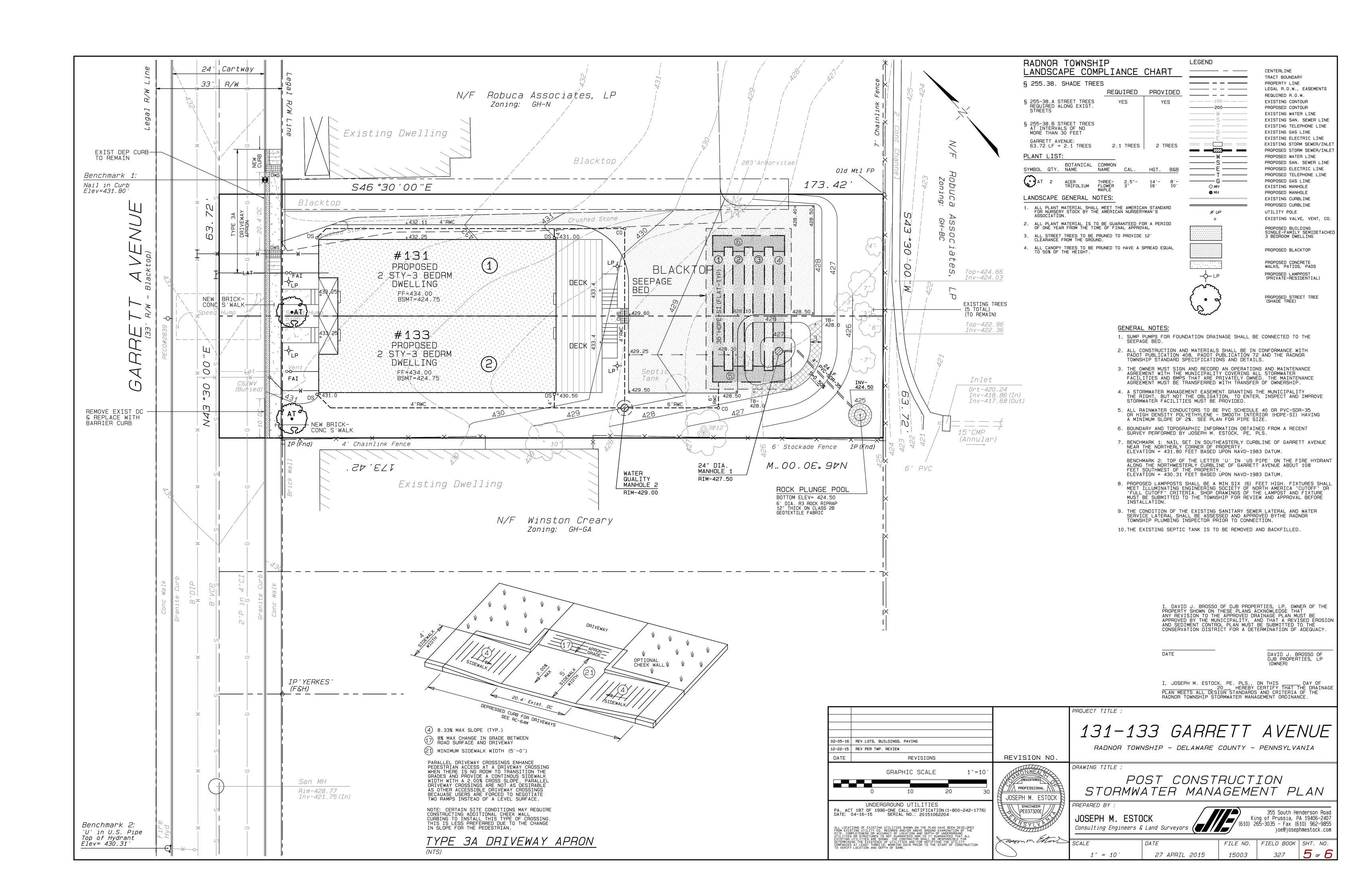
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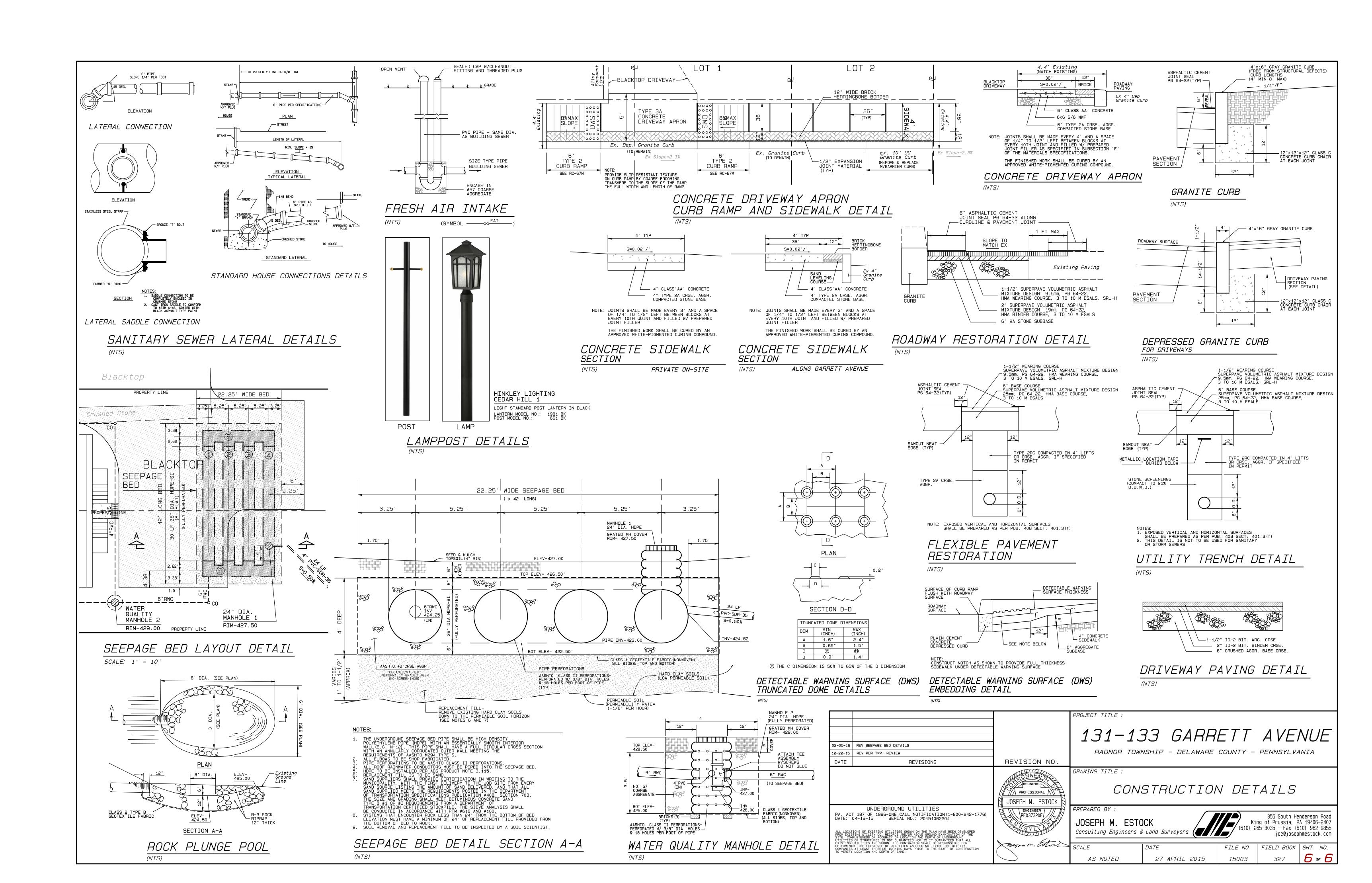
EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS

PREPARED BY . JOSEPH M. ESTOCK Consulting Engineers & Land Surveyors

355 South Henderson Road King of Prussia, PA 19406-2407 265-3035 - Fax (610) 962-9855 joe@josephmestock.com DATE FILE NO. | FIELD BOOK | SHT. NO. *27 APRIL 2015*

327





RADNOR MEMORIAL LIBRARY RENOVATION & EXPANSION

PRELIMINARY / FINAL LAND DEVELOPMENT PLANS

114 WEST WAYNE AVENUE | WAYNE, PA 19087

PROJECT TEAM SITE / ZONING DATA **LOCATION MAP AERIAL PHOTO** DRAWING LIST **OWNER:** CS-I COVER SHEET WAYNE BUSINESS OVERLAY DISTRICT (WBOD); SPECIAL **RADNOR TOWNSHIP GENERAL** 301 IVEN AVENUE GI.0 GENERAL NOTES **WAYNE, PA 19087 OPEN SPACE AND RECREATION** 610-688-5600 **OPEN SPACE AND RECREATION** CIVIL CONTACT: STEVE NORCINI **EXISTING CONDITIONS** DEMOLITION PLAN LAYOUT PLAN **ARCHITECT: GRADING AND E&S** KIMMEL BOGRETTE ARCHITECTURE + SITE, INC. **E&S DETAILS** 151 EAST 10TH AVENUE **E&S NARRATIVE** SUITE 300 SITE DETAILS CONSHOHOCKEN, PA 19428 C8.0 STORMWATER DETAILS **CONTACT:** PRINCIPAL STRUCTURE LANDSCAPE skimmel@kimmel-bogrette.com **SHADE TREE PLAN** PRINCIPAL STRUCTURE LANDSCAPE PLAN **CIVIL ENGINEER:** L3.0 LANDSCAPE DETAILS LAND STUDIES, INC. 315 NORTH STREET **LITITZ, PA 17543** EXISTING 72.1% (.752 AC) 717.624.4440 IMPERVIOUS COVERAGI CONTACT: KELLY GUTSHALL (MAXIMUM IMPERVIOUS COVERAGE SHALL BE 90%) kelly@landstudies.com AVERAGE SLOPE 8.29% **STRUCTURAL ENGINEER: IOSEPH BARBATO ASSOCIATES, LLC** 6 DICKINSON DRIVE SUITE 103 **EXISTING NON-COMFORMITIES - TO BE CONTINUED** ADDITIONAL REQUIRED APPROVALS **REQUESTED WAIVERS** CHADDS FORD, PA 19317 THE FOLLOWING WAIVERS OF THE RADNOR TOWNSHIP SUBDIVISION AND LAND THE FOLLOWING NON-COMFORMITIES WILL BE CONTINUED AS PART OF THE PER TOWNSHIP CODE, THE FOLLOWING ADDITIONAL BOARD APPROVALS HAVE BEEN DEVELOPMENT ORDINANCE ARE BEING REQUESTED: CONTACT: MIKE SHEER

SECTION 255-29.A(1) - PARKING FACILITY DIMENSIONS CONDITIONS:

2. SECTION 255-14 - PRELIMINARY PLAN SUBMISSION CONDITIONS:

3. SECTION 255-20(5)(C)[1] - TRANSPORTATION IMPACT STUDY

CONDITIONS:

4. SECTION 255-29(A)(14) - MINIMUM CURBLINE RADIUS IN PARKING AREAS

THE FOLLOWING WAIVERS OF THE RADNOR TOWNSHIP STORMWATER MANAGEMENT

ORDINANCE ARE BEING REQUESTED:

SECTION 245-22 - GROUNDWATER RECHARGE CONDITIONS:

2. SECTION 245-23 - WATER QUALITY REQUIREMENTS CONDITIONS: PROVIDE RAIN GARDEN BEHIND EXISTING DUMPSTER TO ADDRESS WATER QUALITY

EXPANSION AND RENOVATIONS OF RADNOR MEMORIAL LIBRARY

SECTION 280-53.8.B - 10' BUFFER STRIP ALONG RESIDENTIALLY ZONED CONDITIONS:

2. SECTION 280.53.9.D - BUFFER STRIP ALONG RESIDENTIALLY ZONED DISTRICT.

3. SECTION 280.53.17(D)(4) - HEIGHT OF BUILDING OR STRUCTURE CONDITIONS:

2. SHADE TREE COMMISSION CONDITIONS: PROVIDE ADDITIONAL SHADE TREES, WHERE POSSIBLE. TO MEET THE REQUIREMENTS OF THE SHADE TREE ORDINANCE. TOWNSHIP WAS REQUESTED TO CONSIDER PLANTING ADDITIONAL CANOPY TREES IN

OBTAINED FOR THIS PROJECT:

REVIEW BOARD	STATUS	DATE
DESIGN REVIEW BOARD CONDITIONS:	<u>APPROVED</u>	3/9/2016

3/8/2016 THE SOUTH WAYNE LOT.

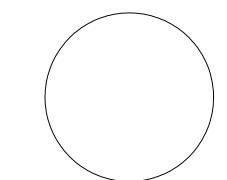
CERTIFICATE OF OWNERSHIP

I, ROBERT A. ZIENKOWSKI, DO HEREBY CERTIFY THAT THE TOWNSHIP OF RADNOR IS THE OWNER OF THE LAND SHOWN HEREON, AS HEREON RECITED. IT IS THE INTENTION OF SAID TOWNSHIP THAT THIS LAND BE DEVELOPED AS SHOWN

> ROBERT A. ZIENKOWSKI **TOWNSHIP MANAGER**

> > NOTARY PUBLIC

DAY OF APPEARED ROBERT A. ZIENKOWSKI, ACTING MANAGER OF THE TOWNSHIP OF RADNOR, AUTHORIZED TO ACT FOR IT AND IN ITS STEAD, KNOWN TO ME OR SATISFACTORILY PROVEN TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING CERTIFICATION, AND ACKNOWLEDGED THE SAME TO BE THE ACT AND DEED OF SAID TOWNSHIP.



MEP ENGINEER:

555 SECOND AVENUE

COLLEGEVILLE, PA 19426

610.489.8212 ext. 23

wclemens@sharpe-eng.com

BILL CLEMENS

SUITE G-260

PHONE:

EMAIL:

CONTACT:

SHARPE ENGINEERING, INC.

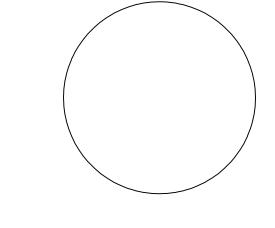
APPROVED RADNOR TOWNSHIP

DIRECTOR OF PUBLIC WORKS **ZONING OFFICER** TOWNSHIP ENGINEER BOARD OF COMMISSIONERS, PRESIDENT

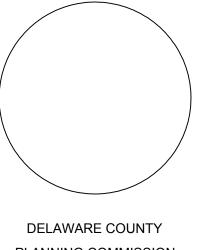
BOARD OF COMMISSIONERS, SECRETARY

STORMWATER CERTIFICATION

I, BENJAMIN J. EHRHART, ON THIS DATE THAT THE DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE RADNOR TOWNSHIP STORMWATER MANAGEMENT ORDINANCE. EXCEPT AS WAIVED BY THE TOWNSHIP AS NOTED ABOVE.



BENJAMIN J. EHRHART, P.E. LANDSTUDIES, INC. 315 NORTH STREET LITITZ, PA 17543



PLANNING COMMISSION **APPROVAL** DATE:

OF 14

SRARY ISION OPMEN

RAI REI

GENERAL PLAN NOTES

- I. THESE DRAWINGS SHOW THE RENOVATION AND EXPANSION OF THE RADNOR MEMORIAL LIBRARY
- 2. EXISTING FEATURES AND TOPOGRAPHIC INFORMATION IS FROM A FIELD SURVEY PERFORMED BY GANNETT FLEMING ON OCTOBER 9, 2015.
- 3. MEETS AND BOUNDS DESCRIBED: TAKEN FROM SUBJECT DEED; BOOK 2715, PAGE 954 TOWNSHIP OF RADNOR.
- 4. ANY ALTERATIONS TO THIS PLAN AFTER THE DATE OF PLAN PREPARATION OR THE LATEST REVISION SHALL NOT BE THE RESPONSIBILITY OF KIMMEL BOGRETTE ARCHITECTURE + SITE, INC. OR LANDSTUDIES, INC. (PROJECT TEAM, HEREIN)
- 5. ALL PROPOSED UTILITIES SHALL BE UNDERGROUND
- 6. THE EXISTING UTILITIES SHOWN HAVE BEEN DETERMINED AND REFERENCED BASED ON INFORMATION RECEIVED FROM THE UTILITY COMPANIES, SURVEYORS, VISITS TO THE SITE AND GENERAL BEST INFORMATION, TO THE BEST OF PROJECT TEAM'S KNOWLEDGE, AT THE TIME OF DESIGN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION BY CALLING THE PENNSYLVANIA ONE CALL SYSTEM 1-800-242-1776 A MINIMUM OF 3 DAYS PRIOR TO EXCAVATING OR WITH CAREFUL EXPLORATORY WORK, AT THE CONTRACTORS RISK, PRIOR TO CONSTRUCTION FOR THOSE PRIVATE LINES WHICH ARE NOT ABLE TO BE LOCATED THROUGH THE ONE CALL PROCESS. IT MAY BECOME NECESSARY IN THE FIELD TO ADJUST THE PROPOSED UTILITY LOCATION TO RESOLVE ANY UTILITY CROSSING CONFLICTS WHICH MAY OCCUR. KIMMEL BOGRETTE ARCHITECTURE + SITE, INC. SHALL BE NOTIFIED IMMEDIATELY IF ANY SUCH CONFLICTS ARE ENCOUNTERED.
- 7. DRAWINGS ARE **NOT** TO BE SCALED FOR SIZES OR DIMENSIONS. ANY DISCREPANCY SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF ANY WORK IN QUESTION.

UTILITY NOTES

GENERAL NOTES - STORM DRAINAGE

- I. ALL STORM SEWER PIPES SHALL BE SMOOTH LINED CORRUGATED PLASTIC PIPE UNLESS OTHERWISE NOTED. ALL STORM SEWER STRUCTURES, PIPES AND CULVERTS SHALL BE WATERTIGHT PER MUNICIPAL REQUIREMENTS.
- CONSTRUCTION OF STORMWATER MANAGEMENT AND EROSION CONTROL FACILITIES
 SHALL BE IN ACCORDANCE WITH THE MUNICIPALITY AND DELAWARE COUNTY
 CONSERVATION DISTRICT STANDARDS AND SPECIFICATIONS.
- 3. ALL STPR, SEWER PIPES AND INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PENNDOT PUBLICATION 408, THE MUNICIPAL SPECIFICATION AND AS SHOWN ON THESE DRAWINGS. STORM SEWER STRUCTURES AND GRATES SHALL COMPLY WITH PENNDOT RC-34 CONSTRUCTION SPECIFICATIONS.

CONTRACTOR NOTES

- 1. THE OWNER WILL PROCURE AND OBTAIN, AT THEIR COST, THE NECESSARY BUILDING & DEMO PERMIT(S); IT IS THE RESPONSIBILITY OF THE INDIVIDUAL SUBCONTRACTORS TO
- PROCURE AND OBTAIN, AT THEIR COST, THEIR RESPECTIVE PERMITS AS NECESSARY.

 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF DAMAGED OR DESTROYED EXISTING LANDSCAPE AND/OR SITE FEATURES WHICH ARE TO REMAIN.
- 3. PLAN LOCATION AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE
- DIRECTED BY THE OWNER'S REPRESENTATIVE.

 4. PRIOR TO CONSTRUCTION STAKEOUT, CONTRACTOR SHALL VERIFY DIMENSIONS SET FORTH
- ON LATEST PLANS.

 5. ALL CONSTRUCTION TO CONFORM TO THE MUNICIPAL AND/OR DELAWARE COUNTY
- ORDINANCES AND SPECIFICATIONS.

 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRENCH
- BARRICADING, COVERING, SHEETING, AND SHORING, IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- 7. THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING SITE CONDITIONS AND
- DIMENSIONS PRIOR TO CONSTRUCTION.

 8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE DONE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 9. DIMENSIONS AND GEOMETRY SHOWN ON THIS PLAN SHALL BE VERIFIED DURING STAKE-OUT CALCULATIONS AND FIELD STAKE-OUT.

E&S NOTES

I. SOIL TYPES PRESENT ON THE SITE, PER THE SOIL SURVEY OF DELAWARE COUNTY, PENNSYLVANIA, AS FOLLOWS:

SYMBOL	NAME	SLOPE	HYDRO GRO
Md	MADE LAND, GABBRO AND DIABASE	0-8%	С
	MATERIALS		

- 2. REFER TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR ALL EROSION AND SEDIMENT CONTROL MEASURES. ALL DISTURBED AREAS MUST COMPLY WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- 3. PER REQUIREMENTS OF CHAPTER 102 OF ADMINISTRATIVE CODES OF TITLE 25 (PA DEP RULES AND REGULATIONS) A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN, AND ITS PARTS, MUST BE AVAILABLE ON SITE DURING CONSTRUCTION UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED.

UNDERGROUND UTILITY LINE PROTECTION ACT

IN COMPLIANCE WITH AN PURSUANT TO THE PROVISIONS OF 73 P.S. 176, AS AMENDED BY ACT 121 OF 2008, THE PROJECT TEAM HAS PERFORMED THE FOLLOWING REQUIREMENTS IN PREPARING THESE DRAWINGS THAT INCLUDE EXCAVATION OR DEMOLITION WORK WITHIN CLEM MACRONE PARK, AS SHOWN ON THE DRAWINGS HEREIN:

- I. PURSUANT TO 73 P.S. 176(2), THE PROJECT TEAM HAS REQUESTED LINE AND FACILITY INFORMATION FROM THE ONE CALL SYSTEM NOT LESS THAN TEN (10) NOR MORE THAN NINETY (90) BUSINESS DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED. IF SUCH INFORMATION WAS OBTAINED MORE THAN NINETY (90) DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED, THE PROJECT TEAM HAS STATED IN THE REQUEST THAT WORK IS PRELIMINARY
- 2. PURSUANT TO 73 P.S. 176(2), THE PROJECT TEAM HAS SHOWN ON THESE DRAWINGS THE POSITION AND TYPE OF EACH FACILITY OWNER'S LINE, AS DERIVED FROM THE REQUEST MADE AS REQUIRED BY 73 P.S. 176(2), THE NAME OF THE FACILITY OWNER AND THE FACILITY OWNER'S DESIGNATED OFFICE ADDRESS AND TELEPHONE NUMBER.
- 3. PURSUANT TO 73 P.S. 176(2), THE PROJECT TEAM HAS CALLED THE ONE CALL SYSTEM AND SHOWN AS PROOF, THE SERIAL NUMBER OF ONE CALL NOTICE AND THE TOLL-FREE NUMBER OF THE ONE CALL SYSTEM ON THE DRAWINGS NEAR THE SERIAL NUMBER.
- 4. IF PURSUANT TO 73 P.S. 176(2), THE PROJECT TEAM HAS REQUESTED LINE AND FACILITY INFORMATION FROM THE ONE CALL SYSTEM MORE THAN NINETY (90) DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED, THE PROJECT TEAM HAS INDICATED THAT THE REQUEST IS PRELIMINARY AND THE SERIAL NUMBER OF SAID REQUEST IS SHOWN ON THE DRAWINGS

THE PROJECT TEAM DOES NOT REPRESENT, WARRANT, ASSURE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO THE ONCE CALL SYSTEM REQUEST AND AS REFLECTED ON THESE DRAWINGS IS ACCURATE OR CORRECT. FURTHERMORE, THE PROJECT TEAM INCLUDES THE INFORMATION ONLY PURSUANT TO THE REQUIREMENTS OF THE UNDERGROUND UTILITY LINE PROTECTION ACT, AS AMENDED BY ACT 121 OF 2008.

PENNSYLVANIA ONE CALL SYSTEM SERIAL NO. (FINAL DESIGN):
PENNSYLVANIA ONE CALL SYSTEM TOLL-FREE NUMBER:
DATE: BY:
PENNSYLVANIA ONE CALL SYSTEM SERIAL NO. (PRELIMINARY): 20153510508
PENNSYLVANIA ONE CALL SYSTEM TOLL-FREE NUMBER: 1-800-242-1776
DATE: 12/17/2015 BY: LANDSTUDIES, INC.

UTILITY CONTACT INFORMATION

AT&T ATLANTA
2315 SALEM RD F11
CONYERS, GA 30013
CONTACT: NANCY SPENCE
EMAIL: NSPENCE@EMS.ATT.COM

COMCAST CABLEVISION 110 SPRINGBROOKE BLVD ASTON, PA 19014

RADNOR TOWNSHIP

301 IVEN AVE

WAYNE, PA 19087

CONTACT: STEVE NORCINI

EMAIL: SNORCINI@RADNOR.ORG

CONTACT: RICH KAIN
EMAIL: RICHARD_KAIN@CABLE.COMCAST.COM

450 S I KING CON

LEVEL 3 COMMUNICATIONS
1025 ELDORADO BLVD BLDG
BROOMFIELD, CO 80021
CONTACT: LEVEL 3 OPERATION PERSONNEL

EMAIL: RELO@LEVEL3.COM

USIC
450 S HENDERSON RD, SUITE B
KING OF PRUSSIA, PA 19406
CONTACT: NIKKIA SIMPKINS
EMAIL: NIKKIASIMPKINS@USICLLC.COM

AQUA PENNSYLVANIA, INC.

762 W. LANCASTER AVE

BRYN MAWR, PA 19010

CONTACT: STEVE PIZZI

SBPIZZI@AQUAAMERICA.COM

VERIZON PENNSYLVANIA, LLC

15 MONTGOMERY AVE, FLOOR 2

PITTSBURGH, PA 15212

CONTACT: DEBORAH BARUM

EMAIL: DEBORAH.D.DELIA@VERIZON.COM

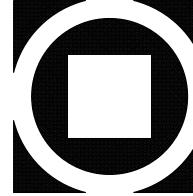
VERIZON BUSINESS FORMERLY MCI 2400 N GLENNVILLE RICHARDSON, TX 75082 CONTACT: DEAN BOYERS EMAIL: DEADN.BOYERS@VERIZON.COM



PENNSYLVANIA ONE CALL SYSTEM, INC. CALL 3 BUSINESS DAYS BEFORE YOU DIG! I-800-242-1776 OR 8-1-1

SITE CONTEXT AND UTILITIES





onshohocken, PA 19428
Facsimile: 610.834.7815

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151 E. 10th Avenue, Suite 300 Phone: 610.834.7805

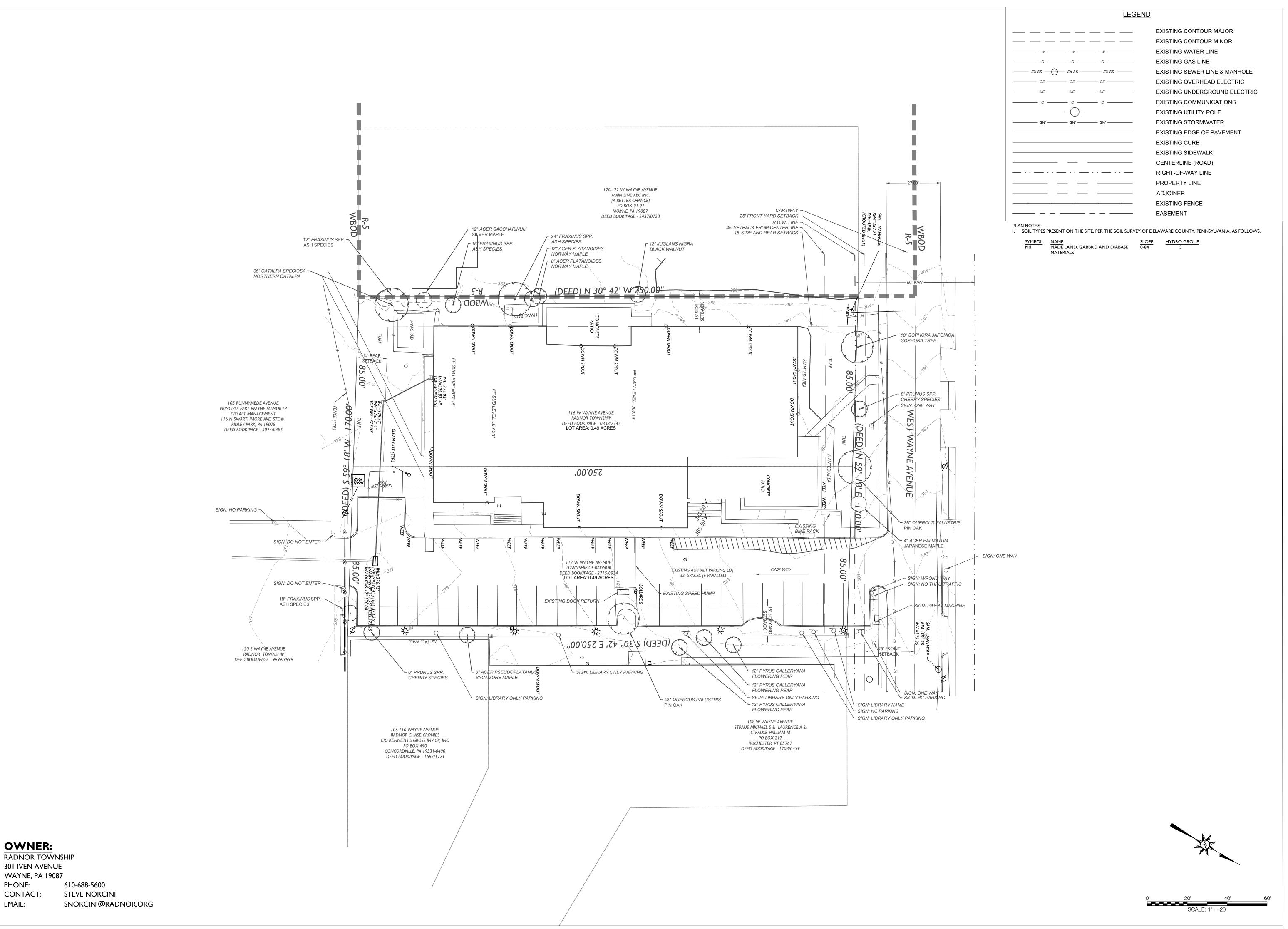
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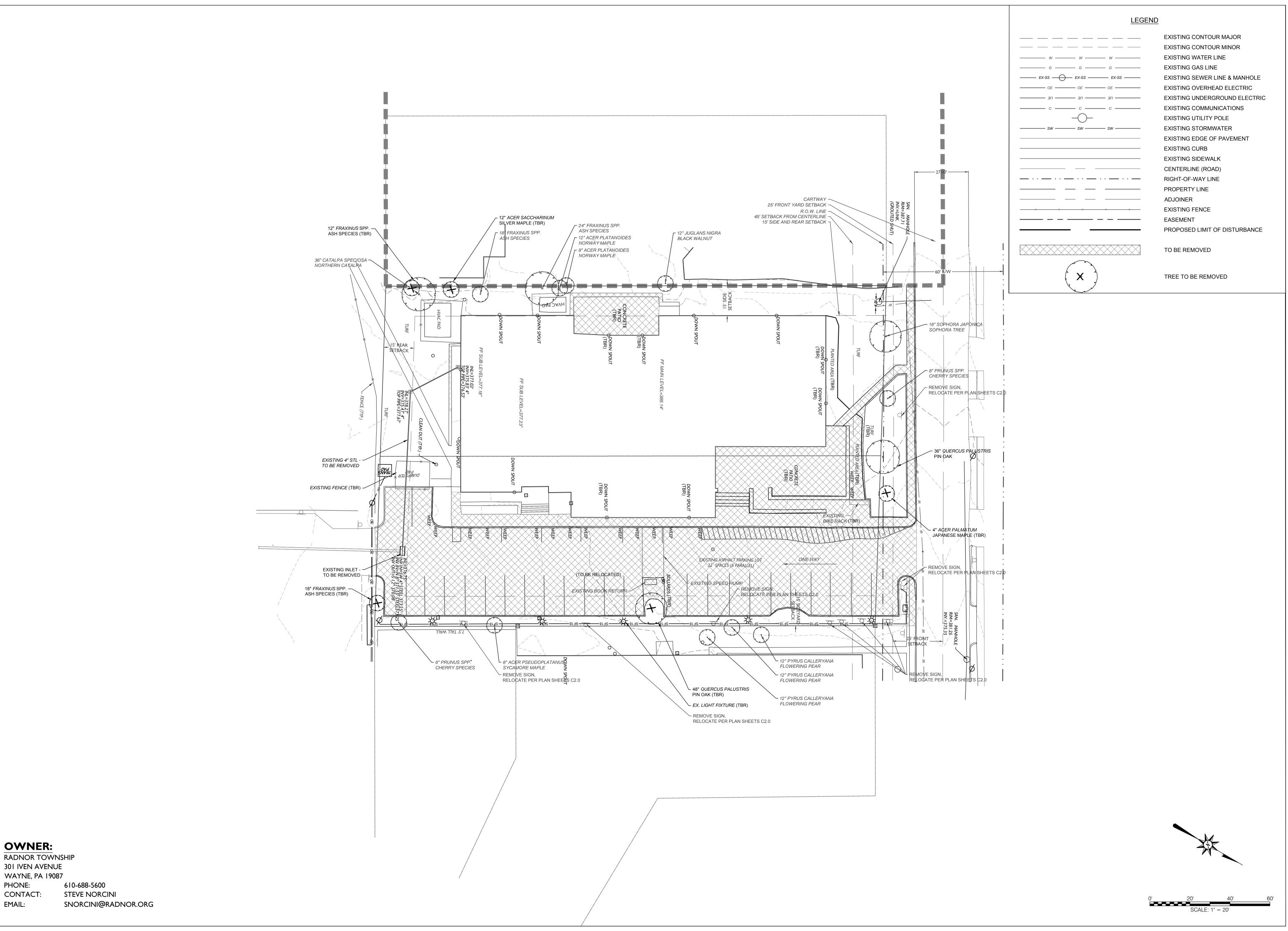
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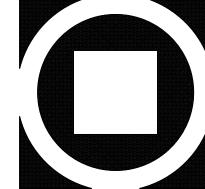
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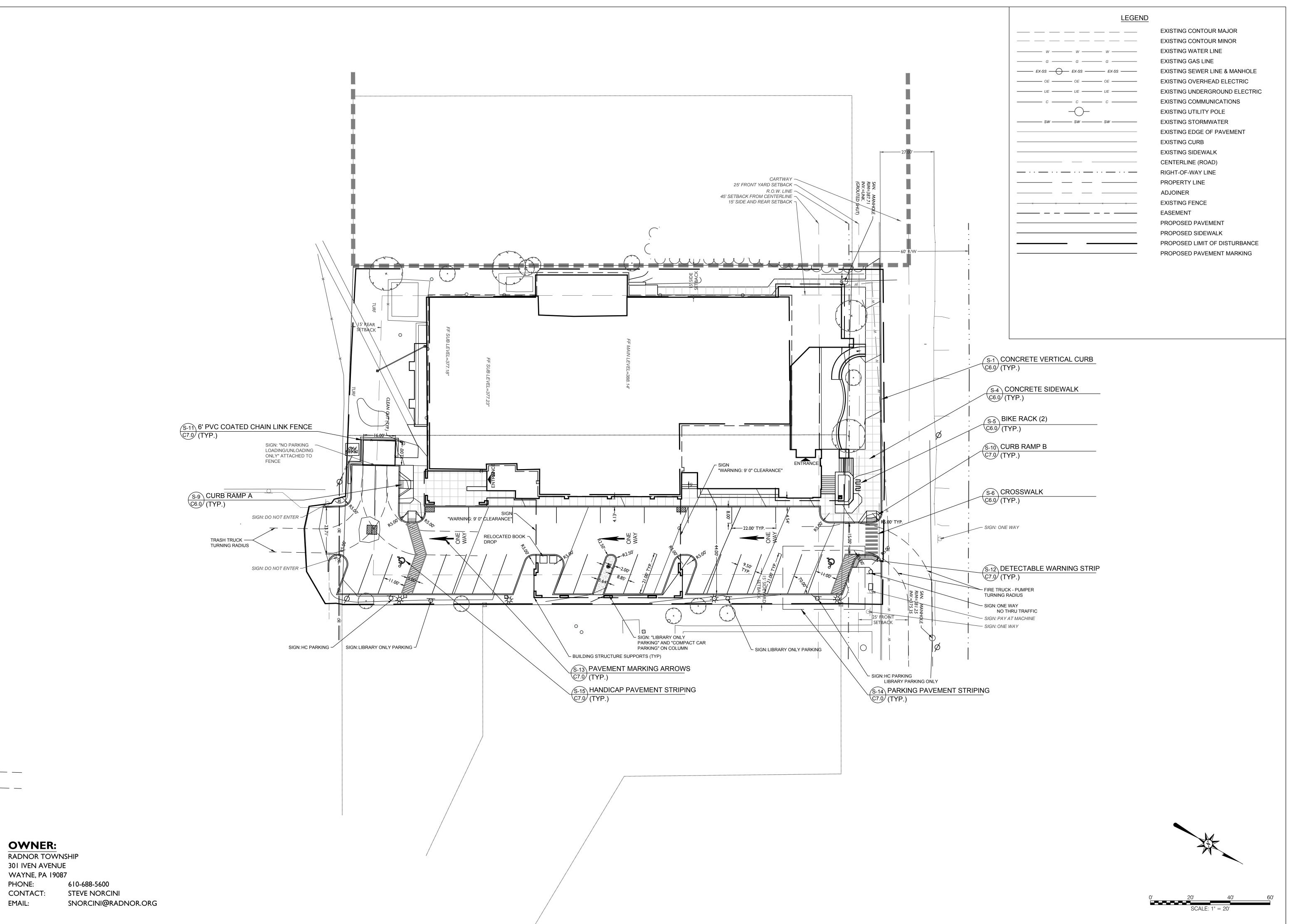
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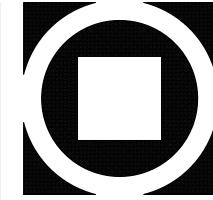
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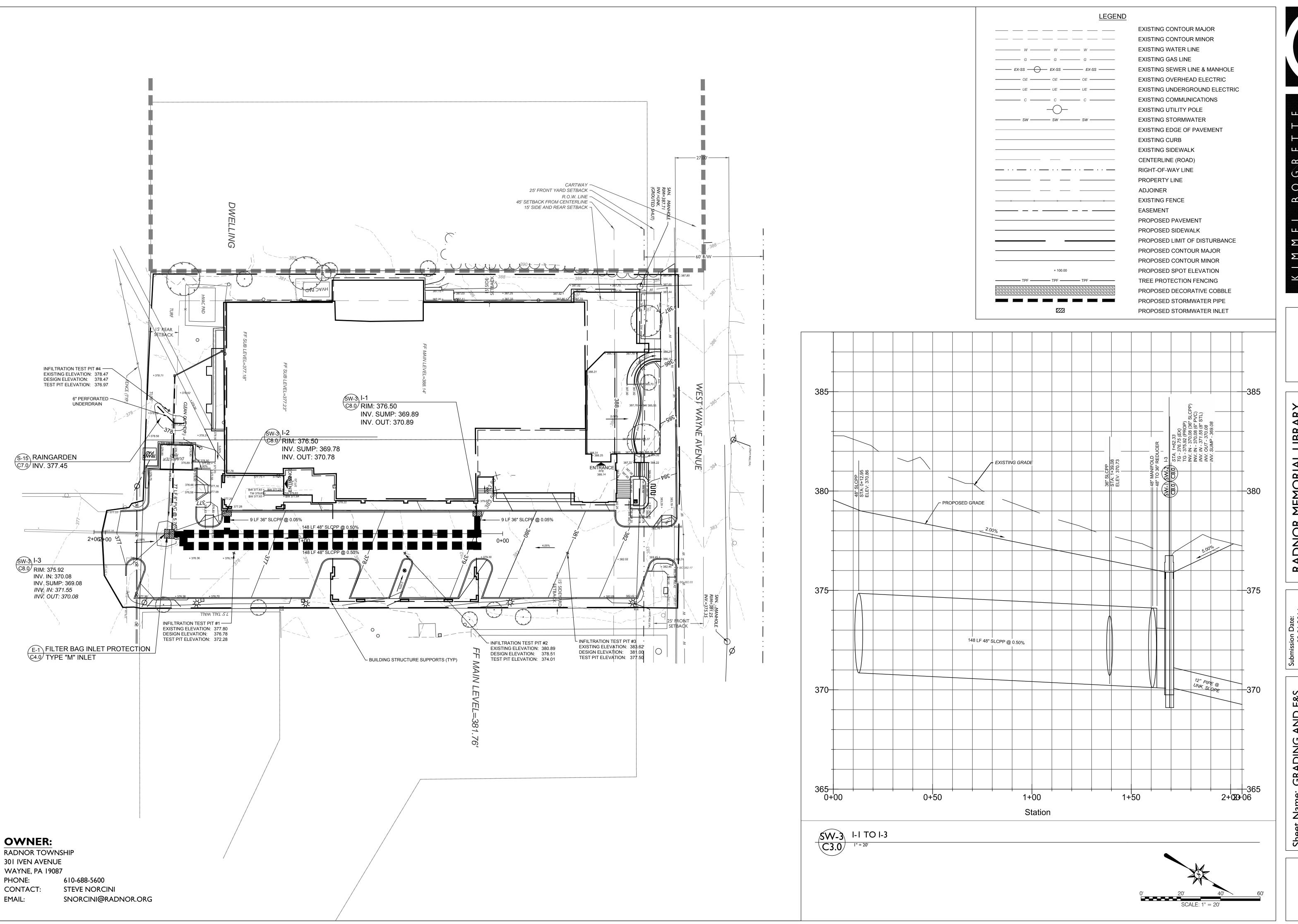
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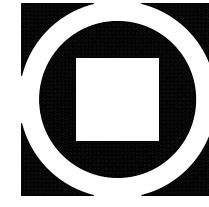
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WAYNE, PA 19087

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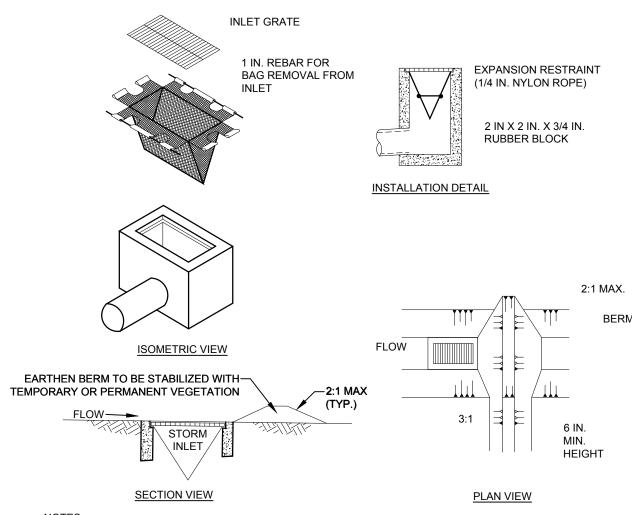
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MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

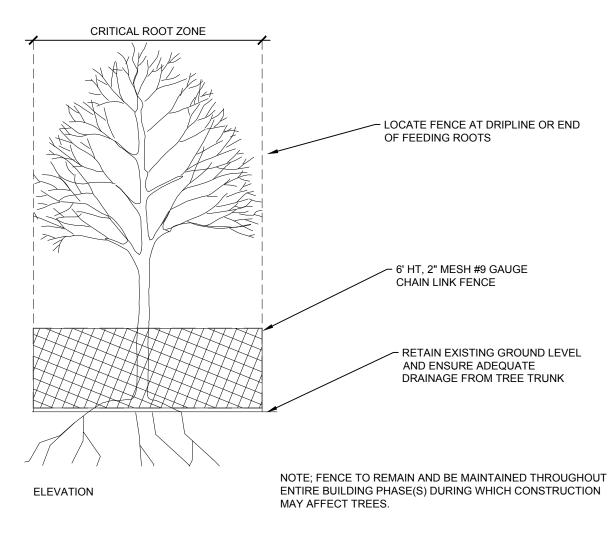
ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

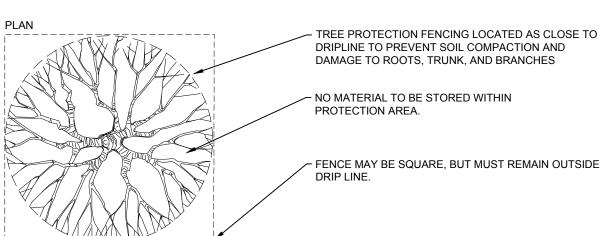
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

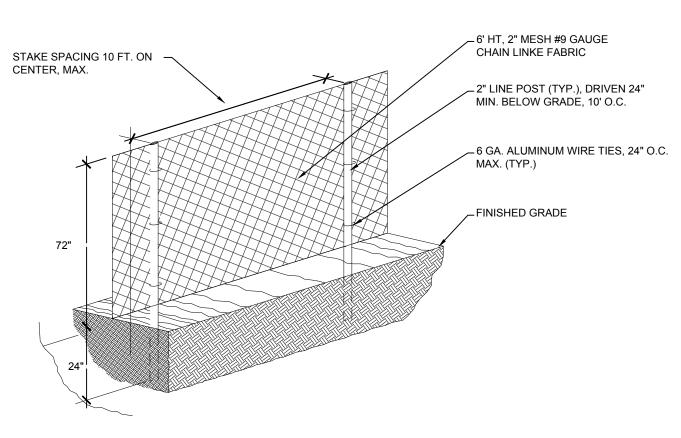
INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-16 FILTER BAG INLET PROTECTION - TYPE M INLET







- DO NOT:

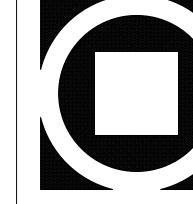
 1. ALLOW RUN OFF OF SPILLAGE AND DAMAGING MATERIALS INTO THE AREA BELOW ANY TREE CANOPY,

 2. STORE MATERIALS, STOCKPILE SOIL, OR PARK OR DRIVE VEHICLES WITHIN THE TPZ,
- 3. CUT, BREAK, SKIN, OR BRUISE ROOTS, BRANCHES, OR TRUNKS WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE CONSULTING ARBORIST,
- 4. ALLOW FIRES UNDER AND ADJACENT TO TREES,
- DISCHARGE EXHAUST INTO FOLIAGE, 6. SECURE CABLE, CHAIN, OR ROPE TO TREES OR SHRUBS,
- 7. TRENCH, DIG, OR OTHERWISE EXCAVATE WTIHIN THE DRIPLINE OR TPZ OF THE TREE(S) WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE CONSULTING ARBORIST,
- 8. APPLY SOIL STERILANTS UNDER PAVEMENT NEAR EXISTING TREES.

- TREE PROTECTION NOTES

 1. A 4" LAYER OF COARSE MULCH OR WOODCHIPS IS TO BE PLACED BENEATH THE DRIPLINE OF THE PROTECTED TREES. MUCH IS TO E KEPT 12" FROM THE TRUNK. 2. A PROTECTIVE BARRIER OF 6' CHAIN LINK FENCING SHALL BE INSTALLED AROUND THE DRIPLINE OF PROTECTED TREE(S). THE FENCING CAN BE MOVED WITHIN THE DRIPLINE IF AUTHORIZED BY THE CONSULTING ARBORIST, BUT NOT CLOSER THAN
- 2' INTO THE GROUND. THE DISTRANCE BETWEEN POSTS SHALL NOT BE MORE THAN 10'. THIS ENCLOSED AREA IS THE TREE PROTECTION ZONE (TPZ). MOVABLE BARRIERS OR CHAIN LINK FENCING SECURED TO CEMENT BLOCKS CAN BE SUBSTITUTED FOR "FIXED" FENCING IF THE CONSULTING ARBORIST AGREE THAT THE FENCING WILL HAVE TO BE MOVED TO ACCOMODATE CERTAIN PHASES OF
- CONSTRUCTION. THE BUILDER MAY NOT MOVE THE FENCE WITHOUT AUTHORIZATION FROM THE CONSULTING ARBORIST. 4. WHERE THE CONSULTING ARBORIST HAS DETERMINED THAT TREE PROTECTION FENCING WILL INTERFERE WITH THE SAFETY OF WORK CREWS, TREE WRAP MAY BE USED AS AN ALTERNATIVE FORM OF TREE PROTECTION. WOODEN SLATES AT LEAST ONE (1) INCH THICK ARE TO BE BOUND SECURELY, EDGE TO EDGE, AROUND THE TRUNK. A SINGLE LAYER OR MORE OF ORANGE CONSTRUCTION FENCING IS TO BE WRAPPED AND SECURED AROUND THE OUTSIDE OF THE WOODEN SLOTS. STRAW WADDLE MAY ALSO BE USED AS A TRUNK WRAP BY COILING THE WADDLE AROUND THE TRUNK UP TO A MINIMUM HEIGHT OF SIX (6) FEET FROM GRADE. A SINGLE LAYER OR MORE OF ORANGE PLASTIC CONSTRUCTION FENCING IS TO BE WRAPPED AND SECURED AROUND THE STRAW WADDLE.





STANDARD E&S PLAN NOTES

- I. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- 2. BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE LOCAL CONSERVATION DISTRICT.
- 3. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE LOCAL CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.
- 4. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- 5. 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 UNDERGROUND UTILITIES. THE EROSION AND SEDIMENT CONTROL PLAN MAPPING MUST DISPLAY A PA ONE CALL SYSTEM INCORPORATED SYMBOL INCLUDING THE SITE IDENTIFICATION NUMBER.
- 6. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
- 7. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING
- FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. 8. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL
- 9. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- 10. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- II. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H: IV OR FLATTER.
- 12. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- 13. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 14. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- 16. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
- 17. THE OPERATOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART I, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C,
- PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL. 18. ALL VEHICLES SHALL ENTER AND EXIT FROM 801 CONESTOGA RD (CLEM MACRONE PARK) USING THE CONSTRUCTION
- ENTRANCE SPECIFICED ON THE EROSION AND SEDIMENT CONTROL PLAN.
- 19. EROSION AND SEDIMENT BMP'S MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMP'S.
- 20. UNTIL THE SITE ACHIEVES FINAL STABILIZATION, THE OPERATOR SHALL ASSURE THAT THE BEST MANAGEMENT PRACTICES ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES. THE OPERATOR SHALL MAINTAIN AND MAKE AVAILABLE TO LOCAL CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGRADING, AND RESTABILIZATION SHALL BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE
- 21. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- 22. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. 23. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 6 INCHES OF
- TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 6 INCHES OF TOPSOIL. 24. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN
- ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 25. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 26. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 27. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS. 28. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 29. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 30. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN
- COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN. 31. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR
- SHALL STABILIZE ALL DISTURBED AREAS, DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN I YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION
- 32. 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 AND OTHER
- 33. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMP'S MUST BE STABILIZED IMMEDIATELY.
- 34. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO
- REMOVAL/CONVERSION OF THE E&S BMPS. 35. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL
- OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON. 36. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE

OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.

- 37. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR
- 38. THE NPDES BOUNDARY IS EQUAL TO THE LIMIT OF DISTURBANCE FOR THE SITE, AND ANY OFF-SITE AREAS WITHIN THE LIMIT OF DISTURBANCE THAT ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL. OFF-SITE FACILITIES SUCH AS: UTILITIES AND
- 39. THE PROJECT'S RECEIVING WATERCOURSE IS ITHAN CREEK (UNNAMED TRIBUTARY TO DARBY CREEK), AND THE CHAPTER 93 CLASSIFICATION IS COLD WATER FISHES (CWF), MIGRATORY FISHES (MF).



PENNSYLVANIA ONE CALL SYSTEM, INC. CALL 3 BUSINESS DAYS BEFORE YOU DIG! I-800-242-1776 OR 8-1-1

> PRELIMINARY DESIGN DATE: 12/17/2015 SERIAL NUMBER: 20153510508

CONSTRUCTION SEQUENCE

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE

1. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING) THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, AND A REPRESENTATIVE FROM THE DELAWARE COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.

3. 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 UNDERGROUND UTILITIES.

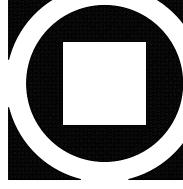
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP, EXCEPT WHERE NOTED.

- 1. FIELD MARK LIMITS OF DISTURBANCE.
 - 2. IDENTIFY ALL TREES TO BE SAVED AND REMOVED AS INDICATED ON PLAN SHEET L1.0. INSTALL TREE PROTECTION
 - (E-2) AS PER PLANS SHEETS C3.0 AND C4.0.
 - 3. CLEAR, GRUB, & REMOVE ALL MARKED TREES AS INDICATED ON PLANS.
 - 4. BEGIN DEMOLITION OF EXTERIOR SITE FEATURES, AS SHOWN ON THE DEMOLITION PLAN, SHEET C1.0. 5. BEGIN EXCAVATION OF PARKING LOT TO SUBGRADE AS PER PLAN SHEETS C3.0 AND C6.0.
- 5. INSTALL INLET PROTECTION ON EXISTING INLET, PER SHEETS C3.0 AND C4.0. MAINTAIN INLET PROTECTION UNTIL SITE IS PERMANENTLY STABILIZED.
- BEGIN BUILDING EXPANSION CONSTRUCTION, AS PER ARCHITECTURAL PLANS.
- 5. INSTALL PROPOSED STORMWATER INLETS AND PIPE, PER SHEETS C3.0 AND C6.0. 5. INSTALL INLET PROTECTION ON I-2 (E-2), PER SHEETS C3.0 AND C4.0. MAINTAIN INLET PROTECTION UNTIL SITE IS PERMANENTLY STABILIZED.
- 6. INSTALL PROPOSED CURBING (S-1) AS PER PLAN SHEETS C2.0, C3.0, AND C6.0. STABILIZE STEEP SLOPES, ADJACENT
- TO CURBING DAILY.
- 7. PREPARE PARKING LOT SUBGRADE AND INSTALL 2A MODIFIED BASE AND BINDER COURSE (S-8) AS PER PLAN SHEETS
- 8. INSTALL SIDEWALKS (S-4) AND DETECTABLE WARNING STRIPS (S-11) AS PER PLAN SHEETS C2.0, C3.0, AND C6.0.
- 9. BACKFILL ALL DISTURBED AREAS WITH SUITABLE TOPSOIL TO FINISHED GRADE, PER PLAN SHEET C3.0. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE.
- 10. REMOVE TREE PROTECTION FENCING FOLLOWING COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND
- INSTALL LANDSCAPING AND DECORATIVE STONE AS PER PLAN SHEETS C3.0, L2.0, AND L3.0. 11.INSTALL PARKING LOT WEARING COURSE (S-8) AS PER PLAN SHEETS C3.0 AND C6.0.
- 12.INSTALL RELOCATED SIGNS AND BOOK DROP, AS PER PLAN SHEET C2.0.
- 13.INSTALL PARKING LOT MARKINGS AND CROSSWALK AS PER PLAN SHEET C2.0 AND C6.0.
- 14.UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, SITE PAVING, AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE OWNER'S REPRESENTATIVE TO SCHEDULE A FINAL INSPECTION.

EΝ	IPORARY STABILIZA	ATION SEED MIX		
ó	Botanical Name	Common Name	Seeding window	Application Rate
5	Secale cereale	Cereal Rye	Sept. 1 - Oct. 16	40 lbs./Acre
5	Lolium multiflorum	Annual Ryegrass		
		<u>OR</u>		
5	Avena sativa	Oats	May 1 - Sept. 15	40 lbs./Acre
5	Lolium multiflorum	Annual Ryegrass		

Soil Mapping Unit	Md	
Soil	Made land, gabbro and diabase materials	
Farm Class	Not prime farmland	
Drainage Class	W ell-drained	
Slope Range	0-8%	
Land Capability Class	6s	
Hydrologic Group	С	
Bedrock Depth	>80"	
Seasonal Water Table	>80"	
Flooding Potential	None	
Bulk Density, 1/3 Bar	1.75 g/cm ³	
Profile Permeability	Moderately High	
W hole Soil kw factor	0.10	
Rock Free kf factor	0.49	
T factor	4 tons/acre/yr	
Leaching Potential	Not limited	
Major Hydric	0	

	Limitation Category	Md	Resolutions to soil use limitations
Soil Use Limitations and Rating	Lawns & landscaping	Very limited - Unstable fill: too dense, large stone contents, gravel, low exchange capacity and droughty	Appropriate lime and fertilizer will be applied based on soil test results
	Surface water management	Very Limited - Unstable fill, large rock fragements, 0.78 slope	Majority of site is rooftop and paved parking lot

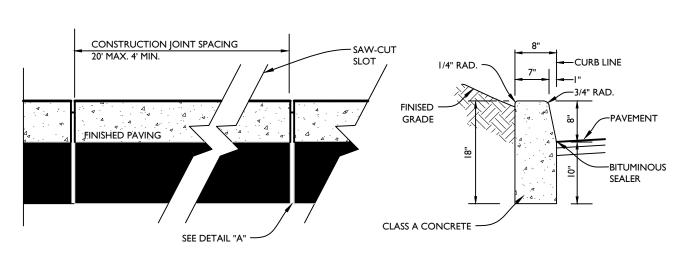


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NOTES:

I. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PA D.O.T.
PUBLICATION 408, LATEST EDITION

2. SPACE CONSTRUCTION JOINTS IN UNIFORM LENGTHS OR SECTIONS

3. PLACE 3/4" PREMOLDED EXPANSION JOIN FELLER MATERIAL AT STRUCTURES AND AT THE

CONFORM TO CROSS-SECTIONAL AREA OF CURB.

END OF WORK DAY. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO

DETAIL "A"
CONTRACTION JOINT

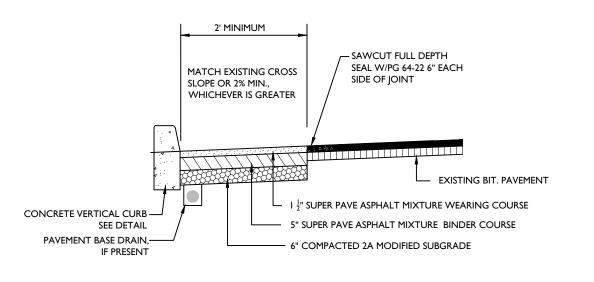
CONCRETE VERTICAL CURB (PA D.O.T. RC-64)

PAVEMENT

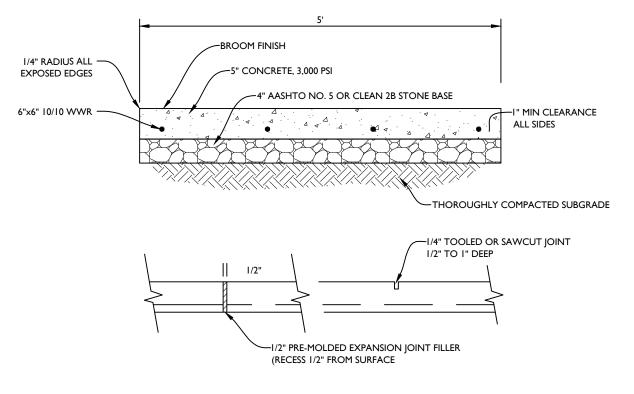
PAVEMENT

SECTION

C6.0 CONCRETE CURB TAPER



TYPICAL ROAD PAVING CROSS SECTION
NOT TO SCALE

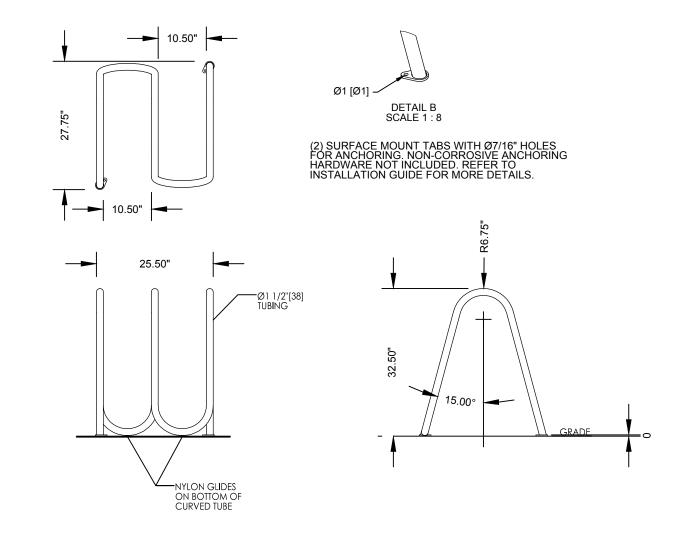


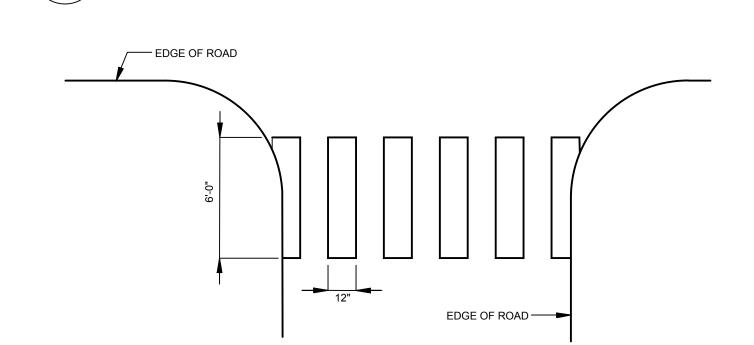
NOTES:

1. TOOLED JOINTS LOCATED AT INCREMENTS EQUAL TO WALK WIDTH

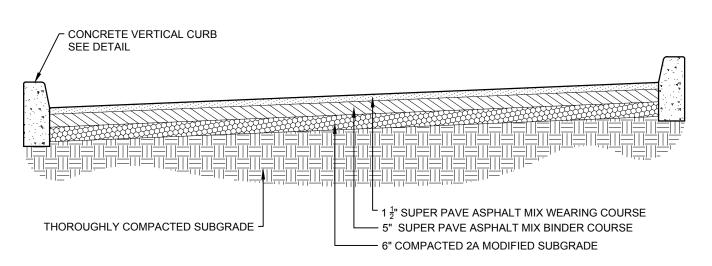
2. SIDEWALK TO BE LIGHTLY BROOM FINISHED IN DIRECTION OF SIDEWALK WIDTH.









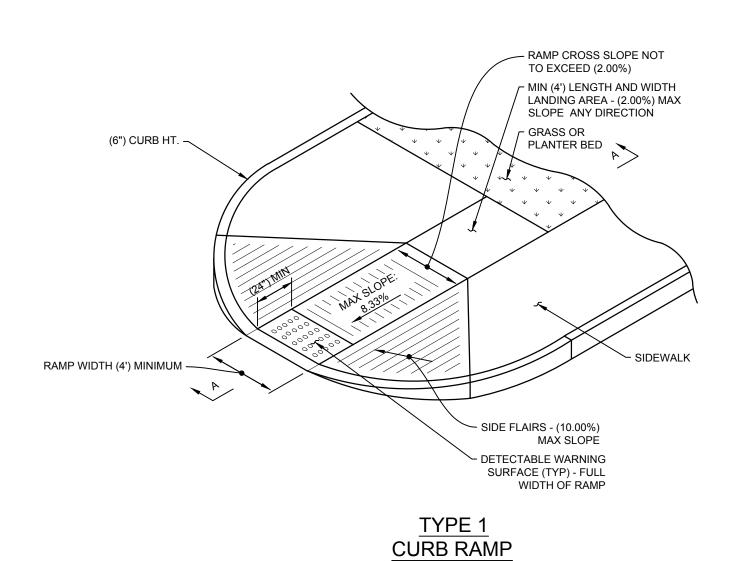


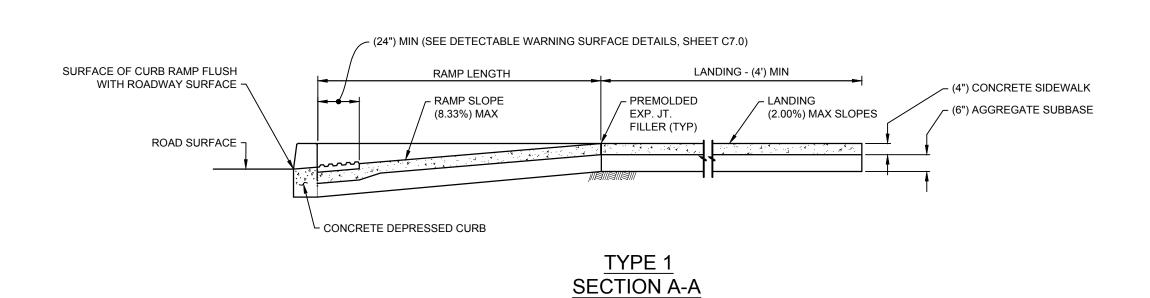
S-8 ASPHALT PARKING LOT
C6.0 NOT TO SCALE

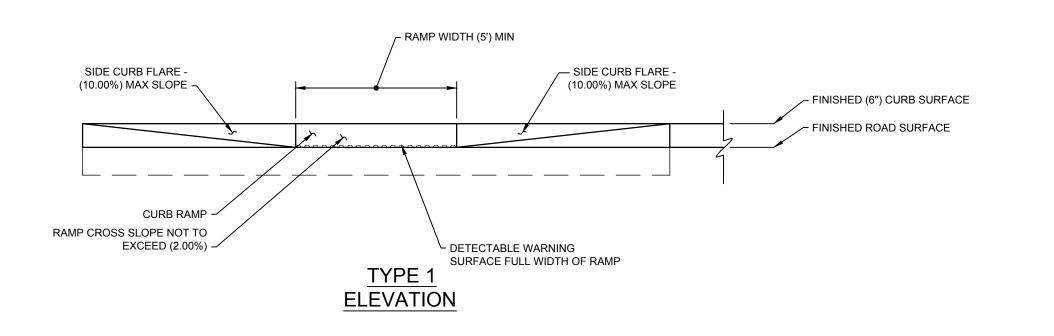
BIKE RACK

NOT TO SCALE

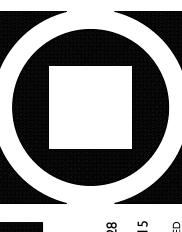
S-5 C6.0











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Revisions:

\$\hbiggar{A}\$ 2.15.16 TWP COMMENTS\$

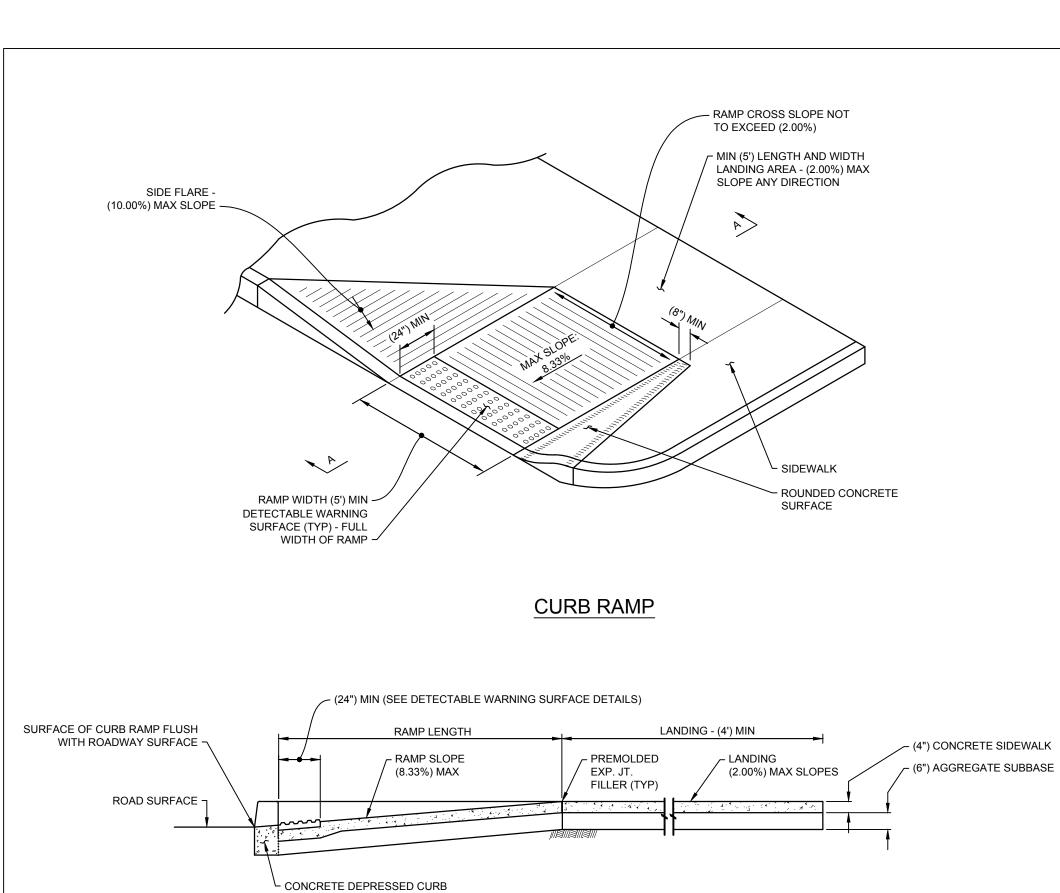
\$\hbiggar{A}\$ 3.15.16 PC COMMENTS\$

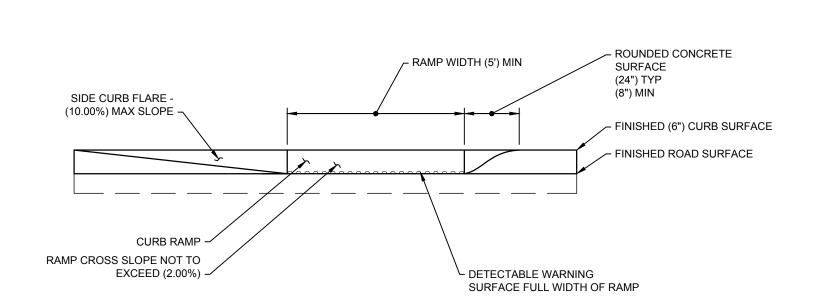
\$\hrac{A}{A}\$ SH. TR. COMMENTS\$

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Progress Prints:

26.(





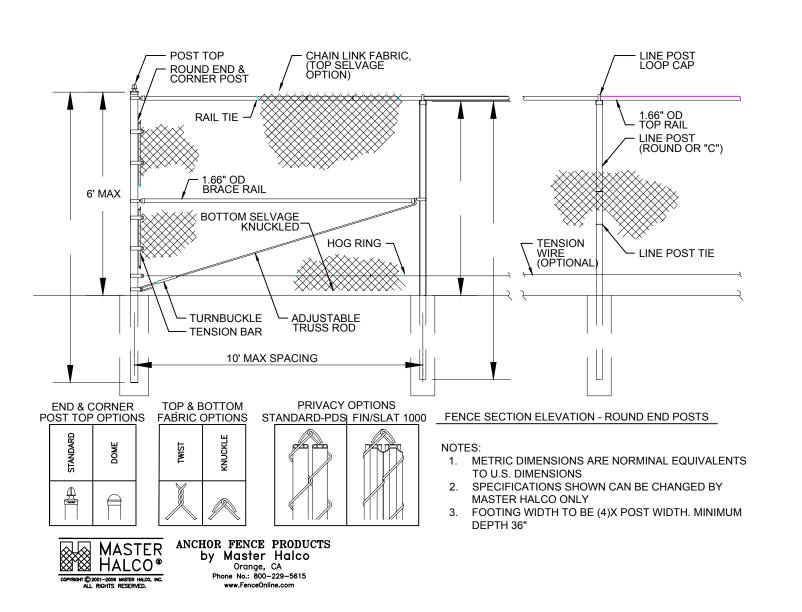
ELEVATION

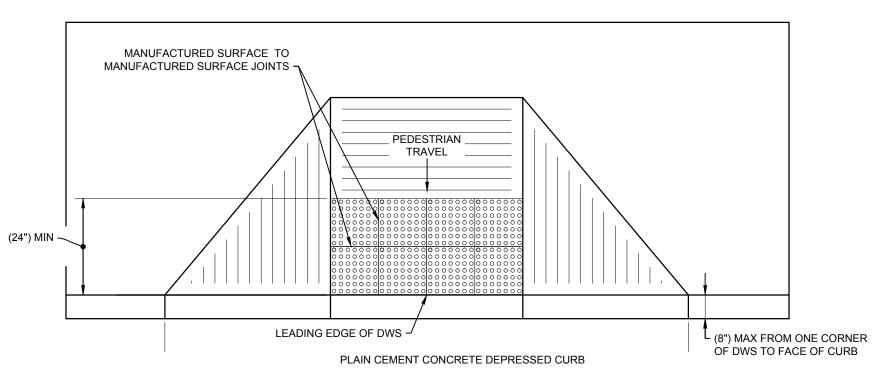
SECTION A-A



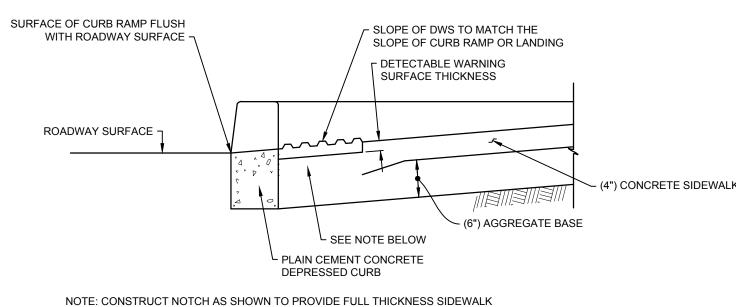
6' PVC COATED CHAIN LINK FENCE

C7.0





DETECTABLE WARNING SURFACE (DWS) ON TYPE 1 CURB RAMP

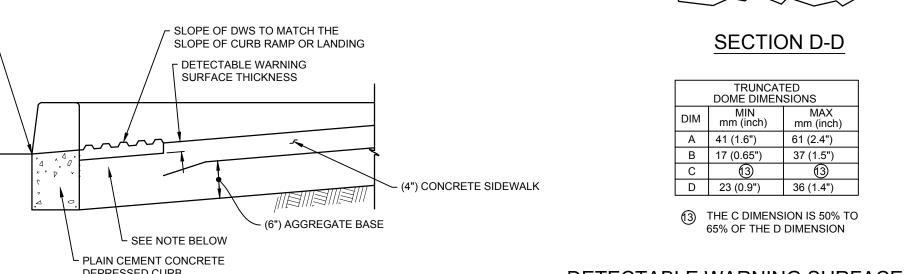


DETECTABLE WARNING SURFACE

EMBEDDING DETAIL

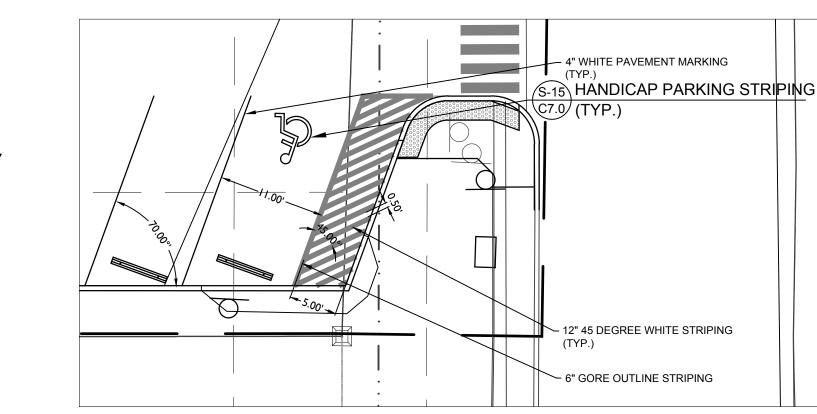
UNDER DETECTABLE WARNING SURFACE.

DETECTABLE WARNING STRIP

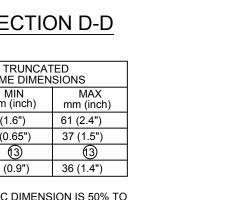


TRUNCATED DOME DETAILS

<u>PLAN</u>



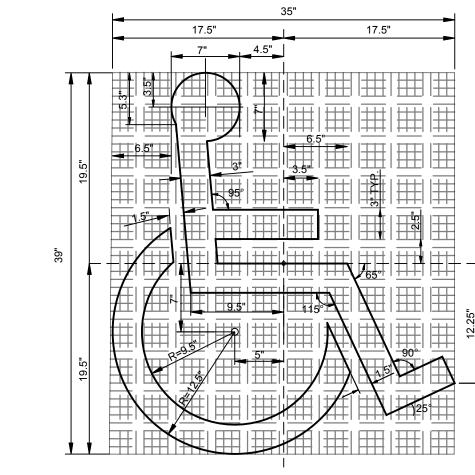
PARKING PAVEMENT STRIPING



5.0 MM

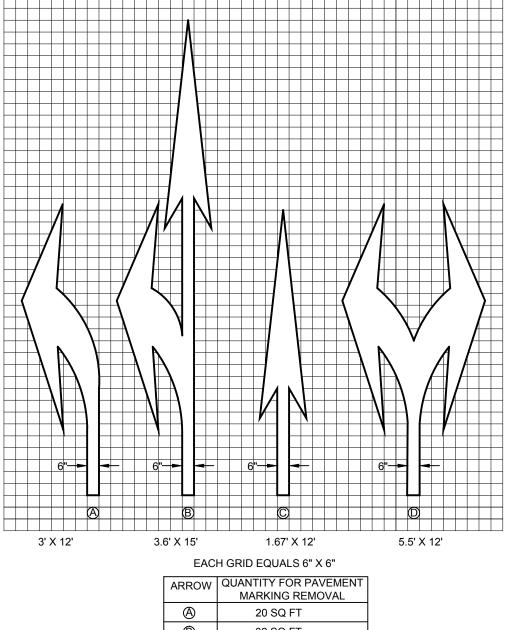
(0.2")

DETECTABLE WARNING SURFACE (DWS)



1. HANDICAPPED SYMBOL SHALL BE WHITE. IT MAY BE INSTALLED ALONE OR WITH A BLUE BACKGROUND WHICH EXTENDS A MINIMUM OF 3" BEYOND THE SYMBOL. IF MATERIAL THICKNESS OF SYMBOL IS GREATER THAN 20 MILS THE BLUE BACKGROUND MUST BE USED. ANY REDUCTION IN DIMENSIONS MUST BE APPROVED BY THE DEPARTMENT.

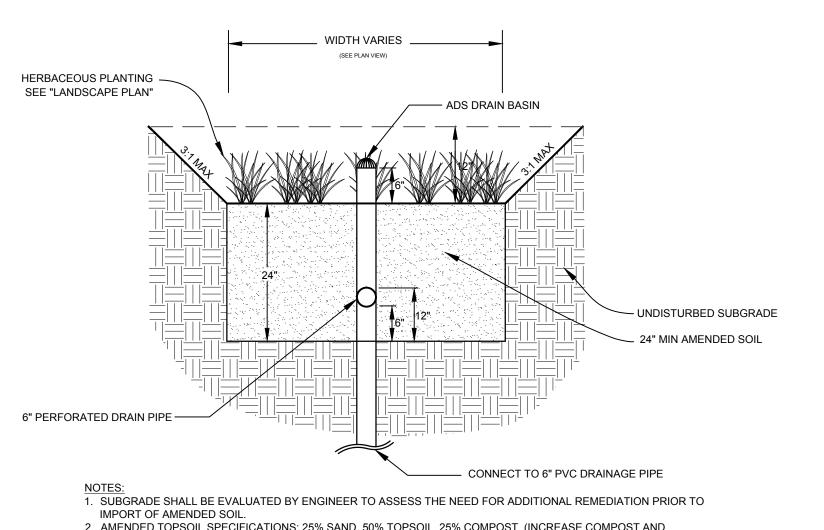




32 SQ FT 13 SQ FT 32 SQ FT MARKING ARROWS

PAVEMENT MARKING ARROWS

C7.0



2. AMENDED TOPSOIL SPECIFICATIONS: 25% SAND, 50% TOPSOIL, 25% COMPOST. (INCREASE COMPOST AND REDUCE TOPSOIL TO REDUCE CLAY FRACTION TO <10%, IF NECESSARY)

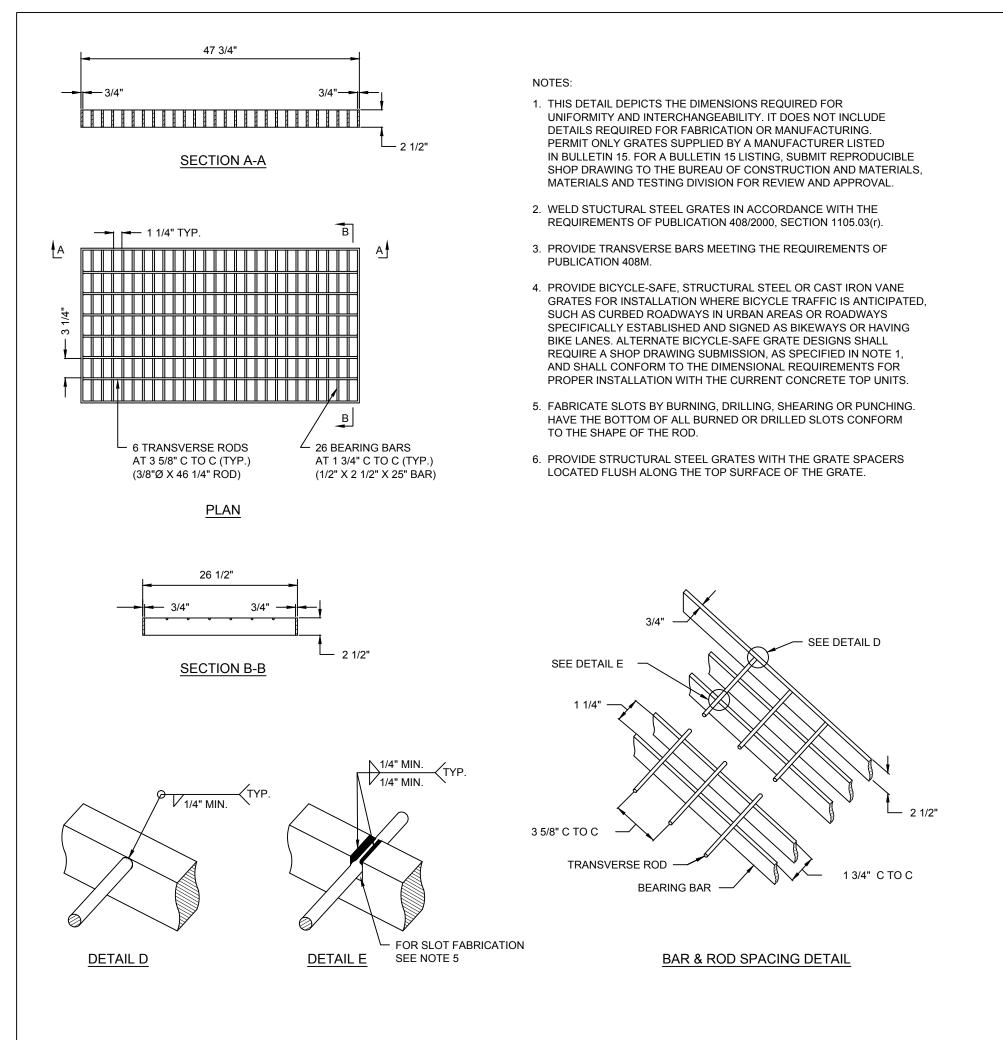


OF 14

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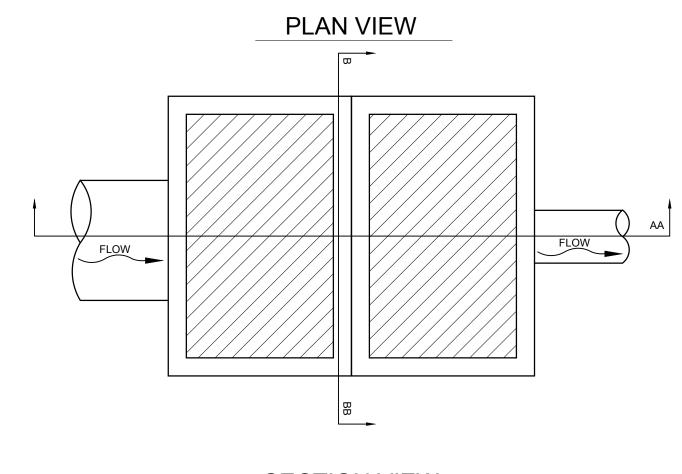
AL LIBRARY KPANSION DEVELOPMENT

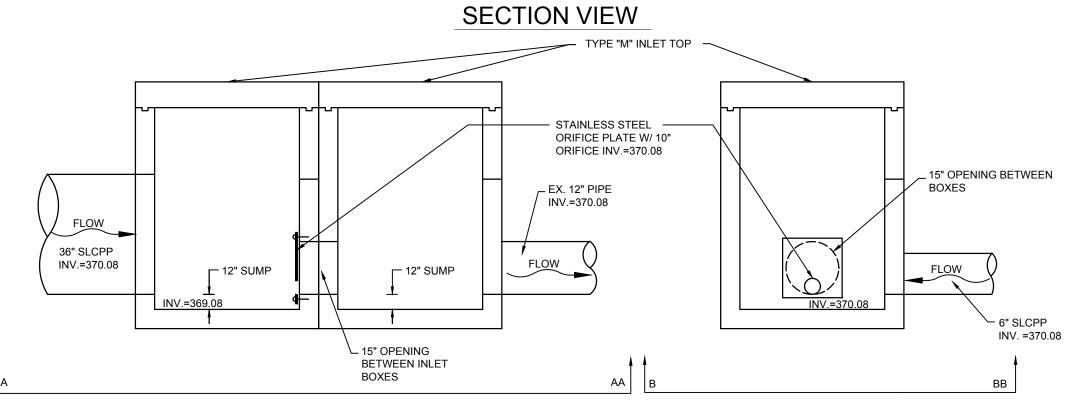
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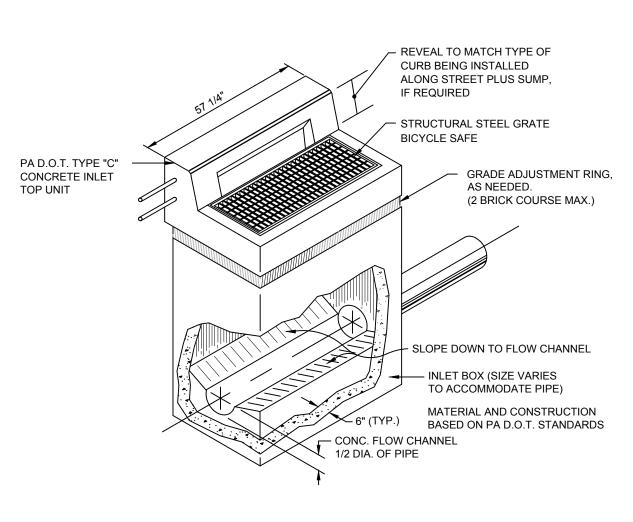
SW-1 STRUCTURAL STEEL BICYCLE SAFE GRATE (PA D.O.T. RC-34)

NOT TO SCALE



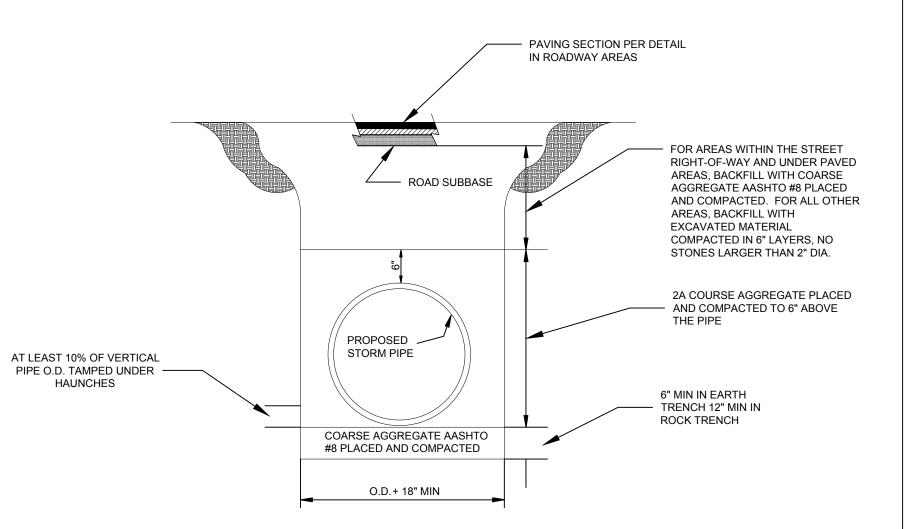


DOUBLE TYPE 'M' INLET
C8.0 NOT TO SCALE



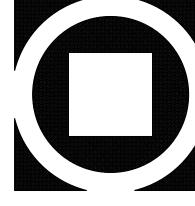
TYPE 'C' INLET (PA D.O.T. RC-34)

C8.0 NOT TO SCALE



SW-4 STORM SEWER PIPE BEDDING AND TRENCH DETAIL

NOT TO SCALE



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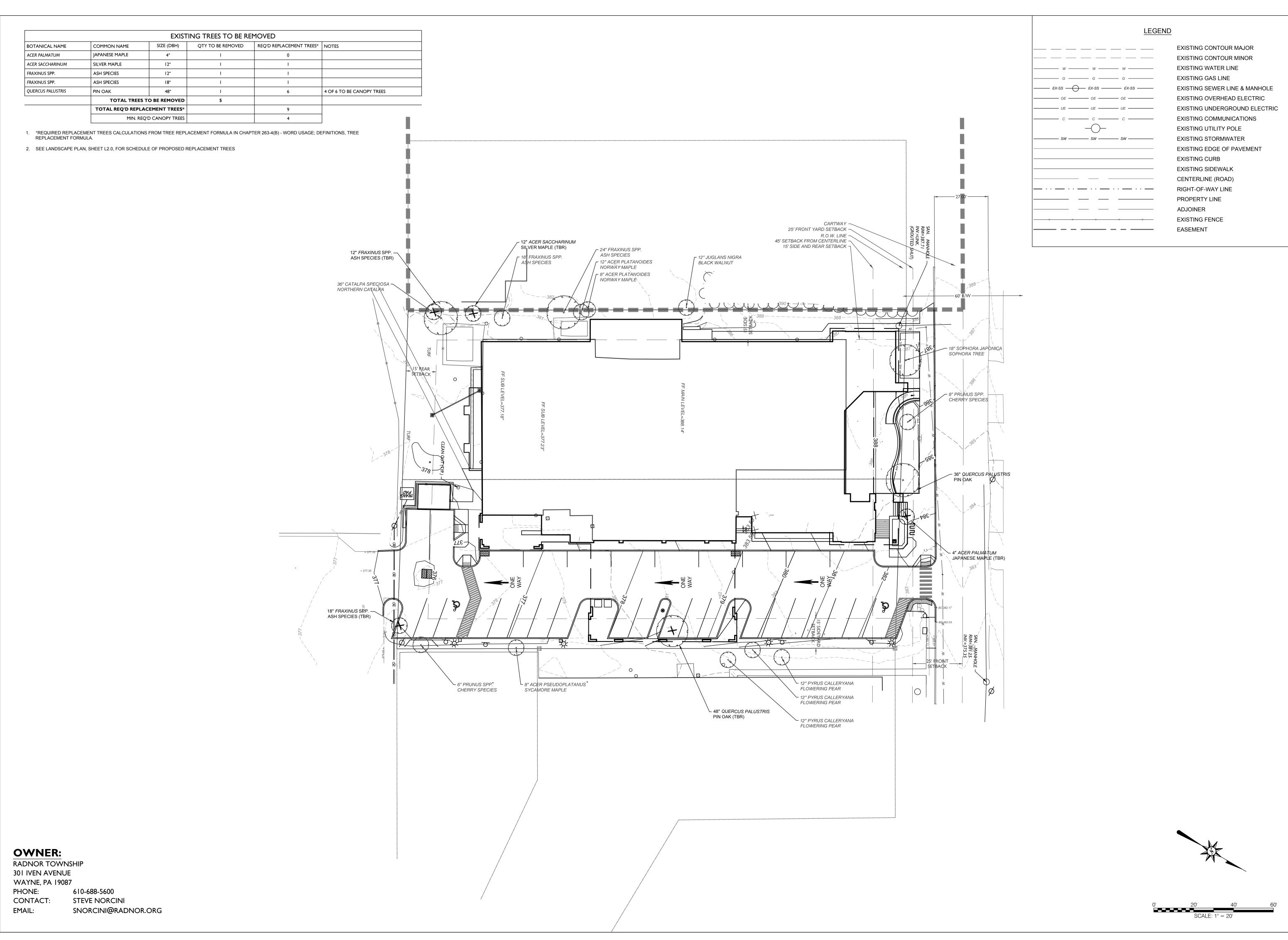
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 Revisions:

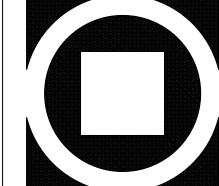
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C8.0





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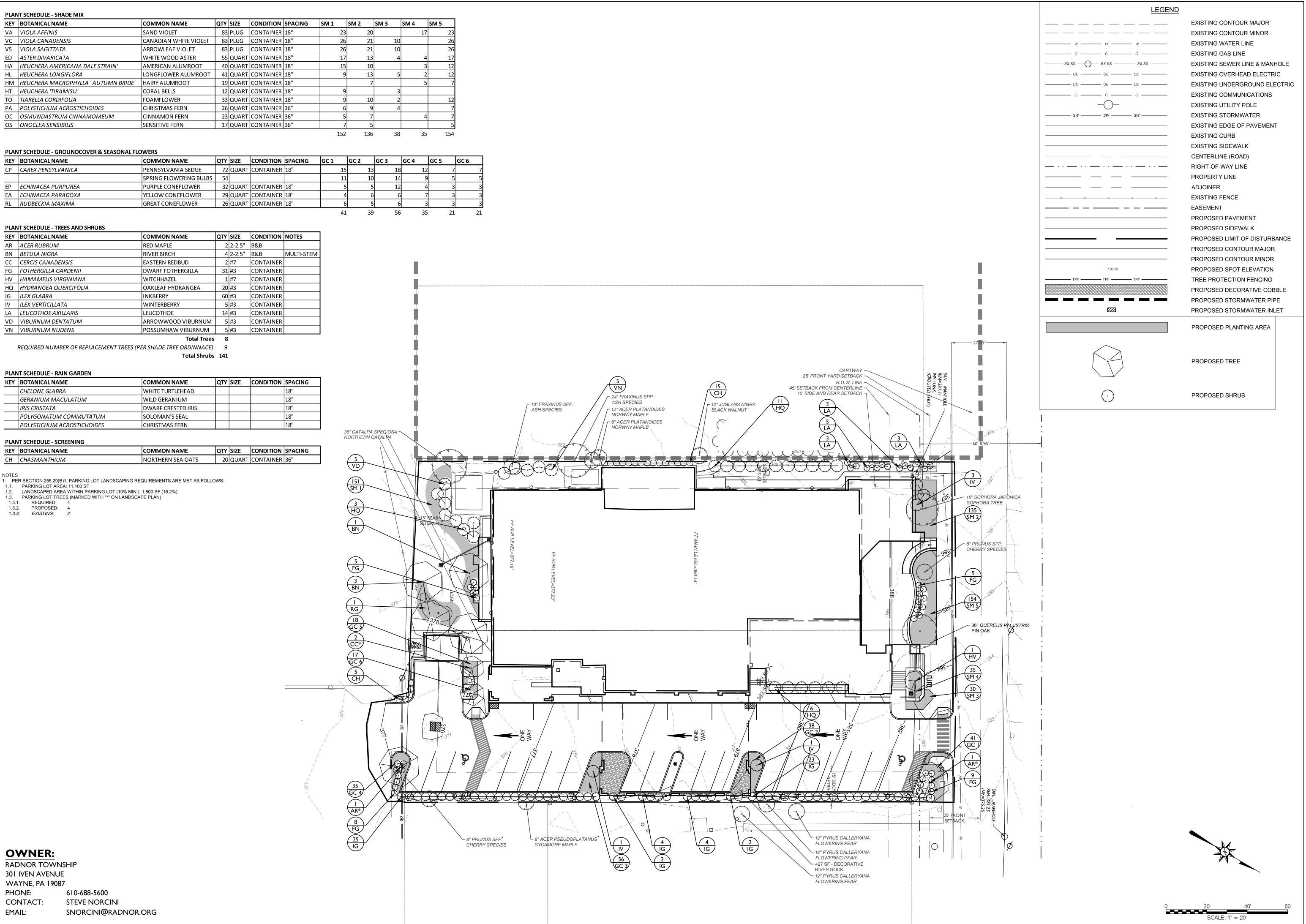
Revisions:

\$\leq\$ 2.15.16 TWP COMMENT\$

\$\leq\$ 3.15.16 PC COMMENTS\$

\$\leq\$ SH. TR. COMMENTS\$

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Revisions:

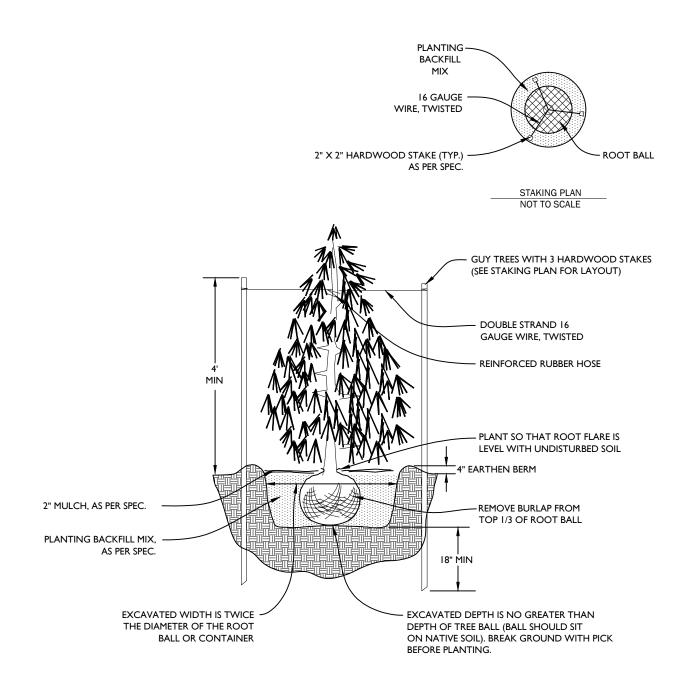
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\$\leqsigma SH. TR. COMMENTS\$

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PLANTING NO

I. PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANT DETAILS PROVIDE ON SHEET L3.0.
2. SUBSTITUTIONS ARE NOT PERMITTED WITHOUT APPROVAL BY OWNER'S REPRESENTATIVE.

3. ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL. NO SOIL SHALL BE PLACED DIRECTLY ON TOP OF THE ROOT BALL.

 PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF THE ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE.
 ALL PLANTING CONTAINERS, BASKETS, AND NON-BIODEGRADEABLE MATERIAL SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING.

NATURAL FIBER BURLAP MUST BE CUT FROM AROUND TRUNK OF TREE OR SHRUB AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING. EXTREME CARE SHALL BE TAKEN TO ENSURE ROOT BALL IS NOT DISTURBED.

6. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED TO FILL THE ENTIRE BED AREA OR PIT AREA. NO MULCH IS TO
TOUCH THE FOLIAGE, STEM, OR TRUNK OF ANY PLANT.
 7. ALL PLANTS SHALL BE WATERED DURING INSTALLATION.

8. BIOPLEX 5-IN-1, OR APPROVED EQUAL, SHALL BE USED ON ALL PLANTS DURING INSTALLATION, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 9. ALL PLANTS SHALL BE NURSERY GROWN WITHIN 250 MILES OF THE PROJECT SITE.
 10. ALL PLANTS SHALL HAVE A NORMAL HABIT OF GROWTH AND SHALL BE SOUND, HEALTHY AND VIGOROUS, THEY SHALL BE FREE FROM DISEASE,

INSECTS, INSECT EGGS, AND LARVAE.

II. ALL PLANTING SHALL BE PERFORMED IN CONFORMANCE WITH GOOD NURSERY AND LANDSCAPE PRACTICE.

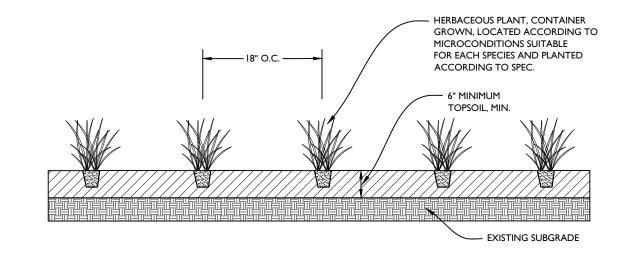
12. REQUIREMENTS FOR THE MEASUREMENTS, AND QUALITY, SHALL FOLLOW THE CODE OF STANDARDS RECOMMENDED BY THE AMERICAN

ASSOCIATION OF BUILDSDAMEN INC. IN THE AMERICAN STANDARD FOR BUILDSDAY STANDARDS RECOMMENDED BY ASSOCIATION OF BUILDSDAY STANDARDS FOR BUILDSDAY STANDARDS FOR BUILDSDAY ASSOCIATION OF BUILDSDAY STANDARDS FOR BUILDSDAY STANDARD

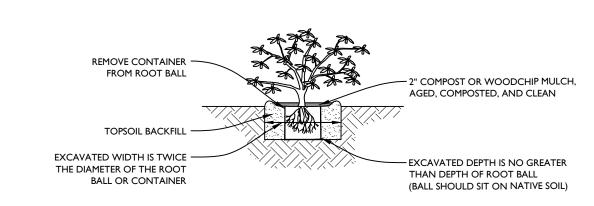
ASSOCIATION OF NURSERYMEN, INC., IN THE AMERICAN STANDARD FOR NURSERY STOCK, ANSIZ60, CURRENT EDITION, AS AMENDED.

13. BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ALL PLANT MATERIAL.

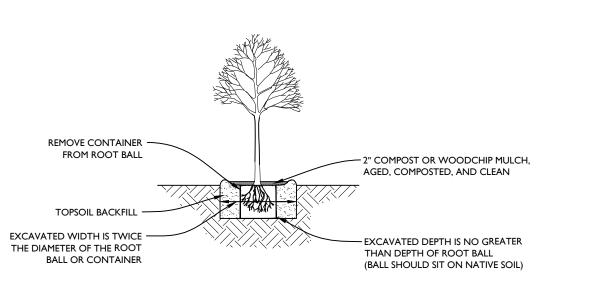
AMENDED.





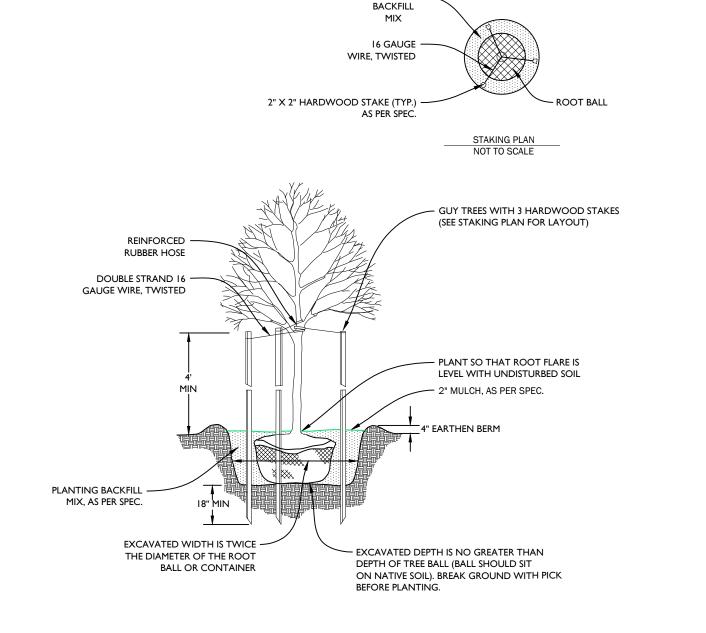


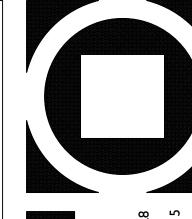




PLANTING-







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e: LANDSCAPE DETAILS

Revisions:

A 2.15.16 TWP COMMENTS

A 3.15.16 PC COMMENTS

SH. TR. COMMENTS

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