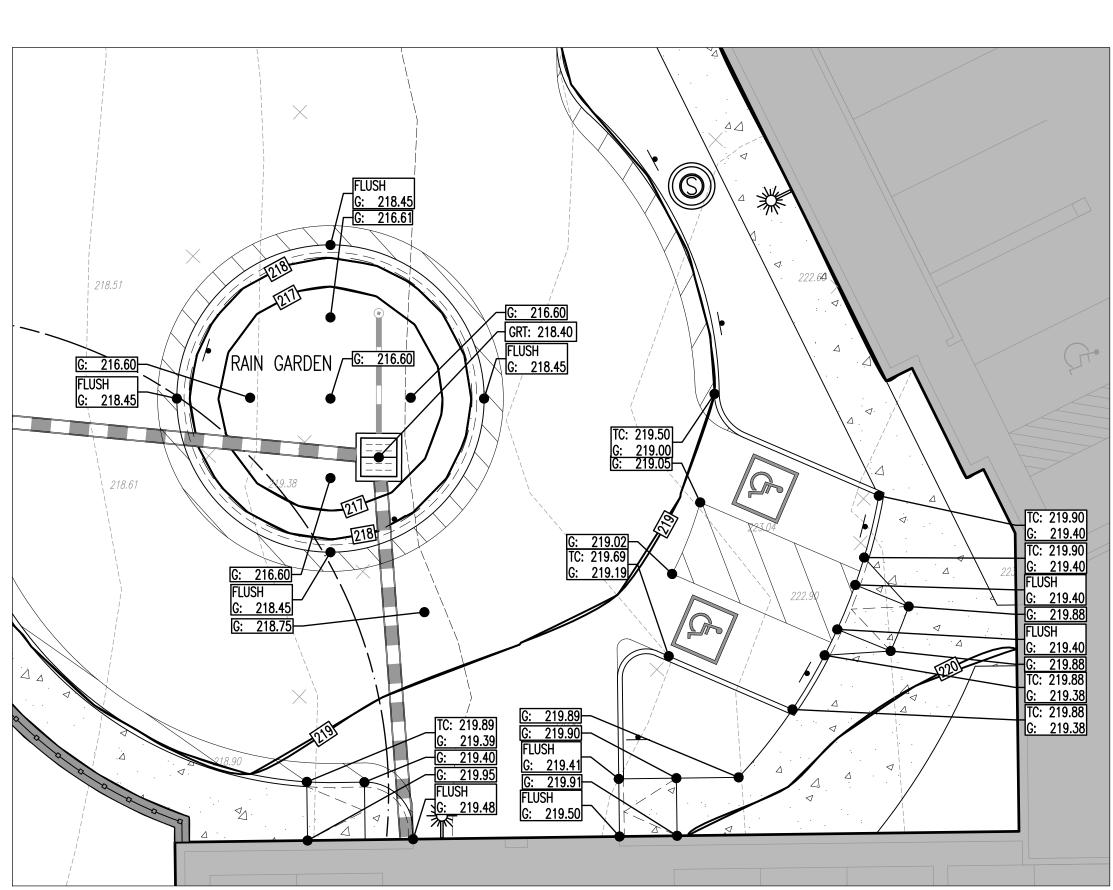
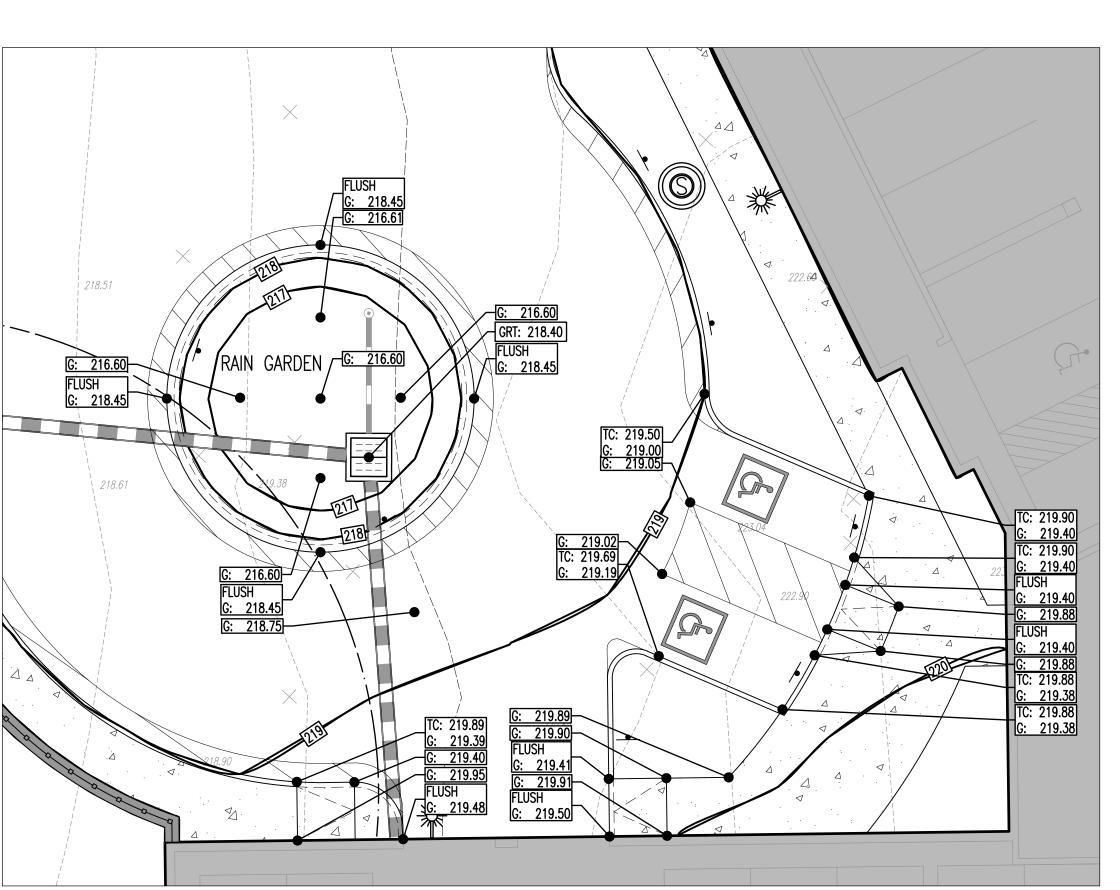
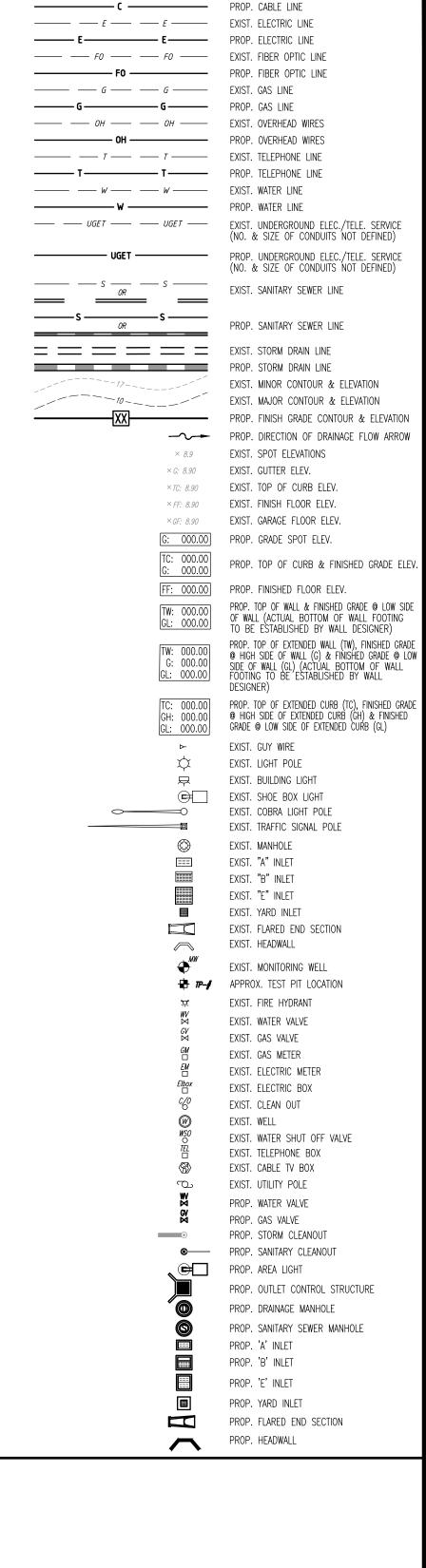


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GRADING/UTILITY GRAPHIC LEGEND

OFF-SITE PROPERTY LINES

PROPERTY LINE (PARCEL IN QUESTION)

81 ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VI: WWW.CALL811.COM

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JOSEPH G. JAWORSKI

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 36618

BRETT W. SKAPINETZ

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41985

ADA GRADING & ACCESS DRIVE **SECTION**

08/07/2020 (V) SHOWN PROJECT No: 0555-99-010

OF 21

(IN FEET) 1 INCH = 10 FT.

SEE SHEET 6 OF 21 FOR ADA GRADING NOTES

RETAINING WALL W/

FALL PROTECTION

└─ EXISTING GRADE

— TIMBER GUIDERAIL

r CURB

ACCESS AISLE 7

24.0'

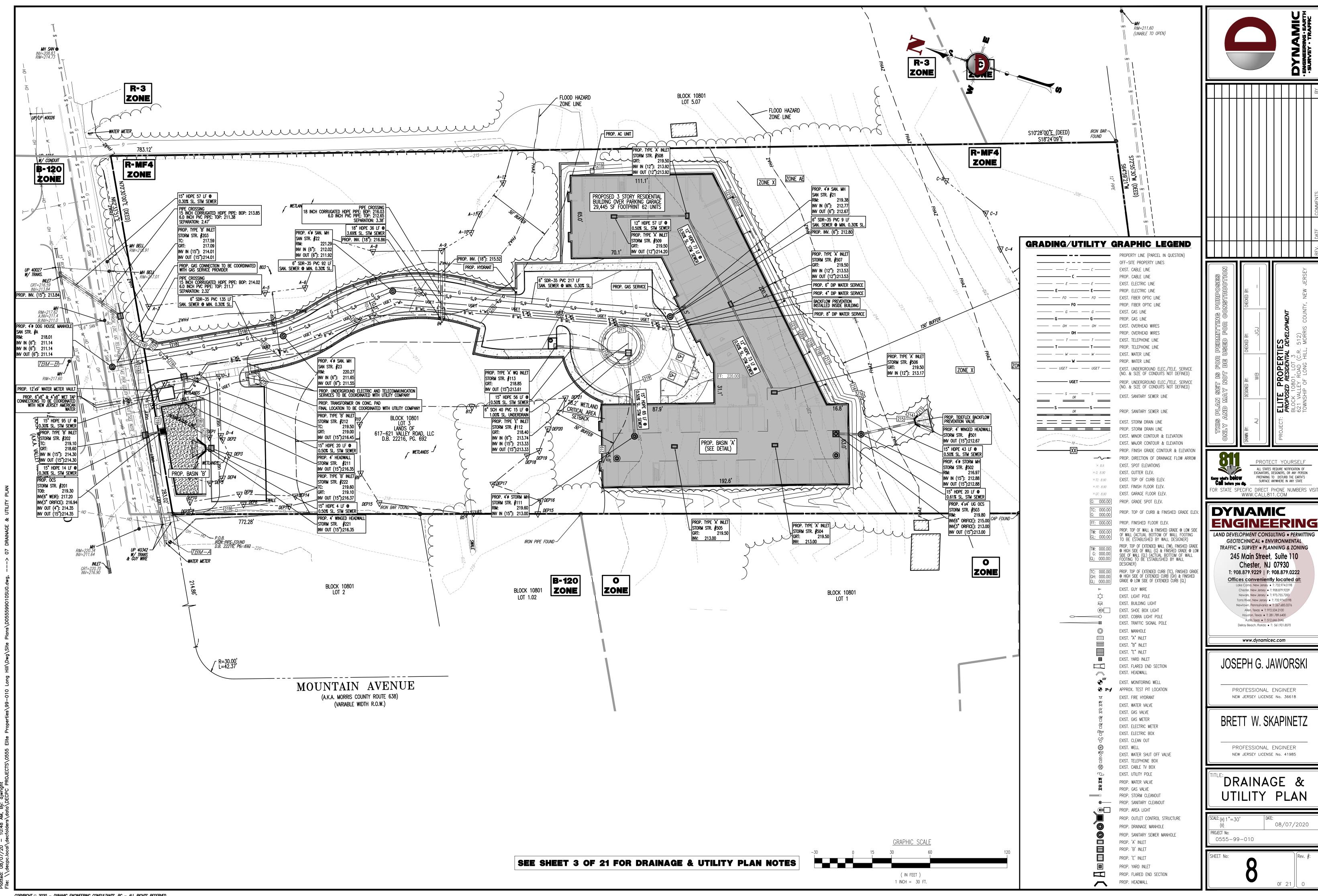
TYPICAL ACCESS DRIVE SECTION HORIZONTAL SCALE: 1"=5' VERTICAL SCALE: 1"=5'

RETAINING WALL -

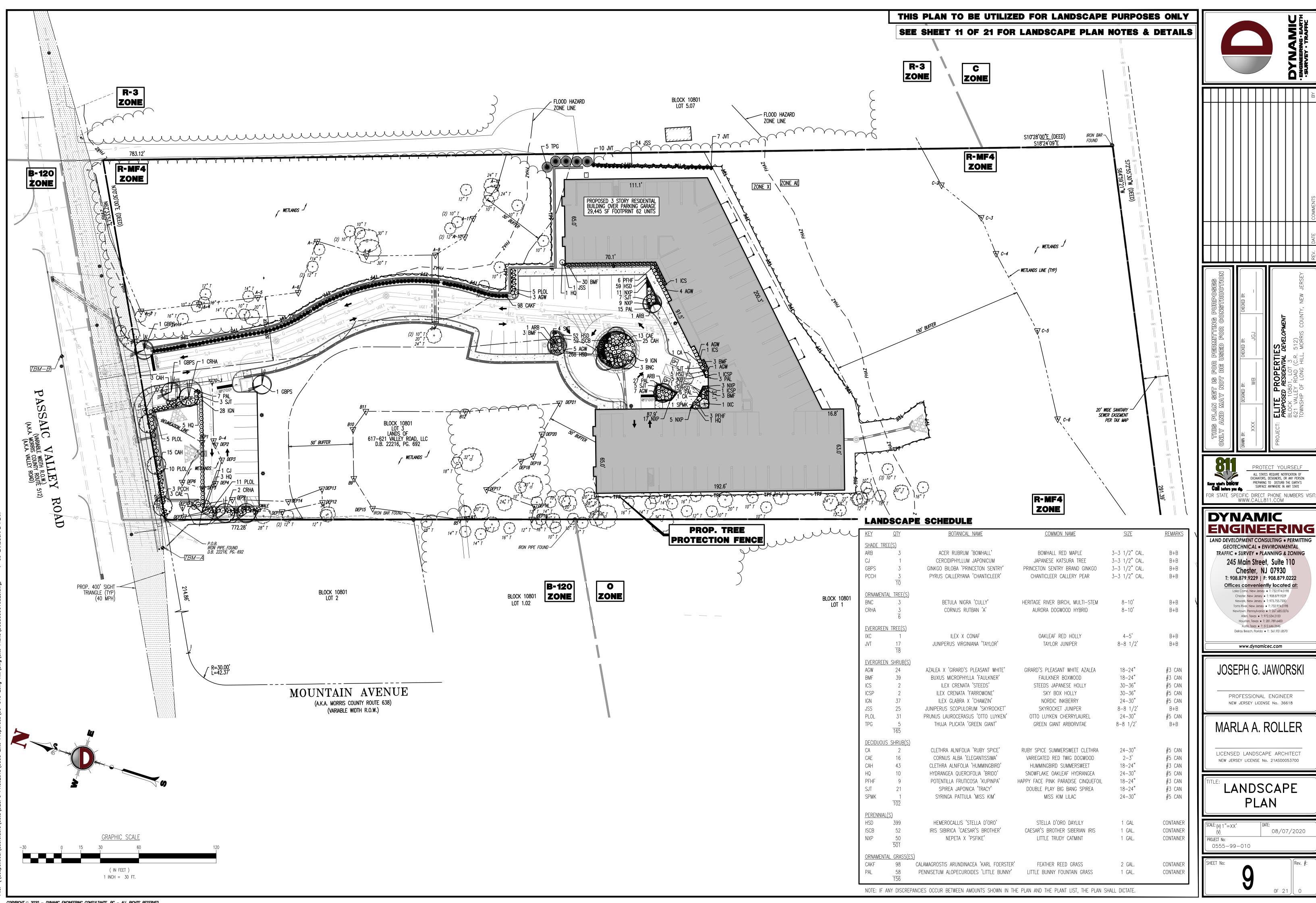
SIDEWALK —

CURB ¬

EXISTING GRADE -



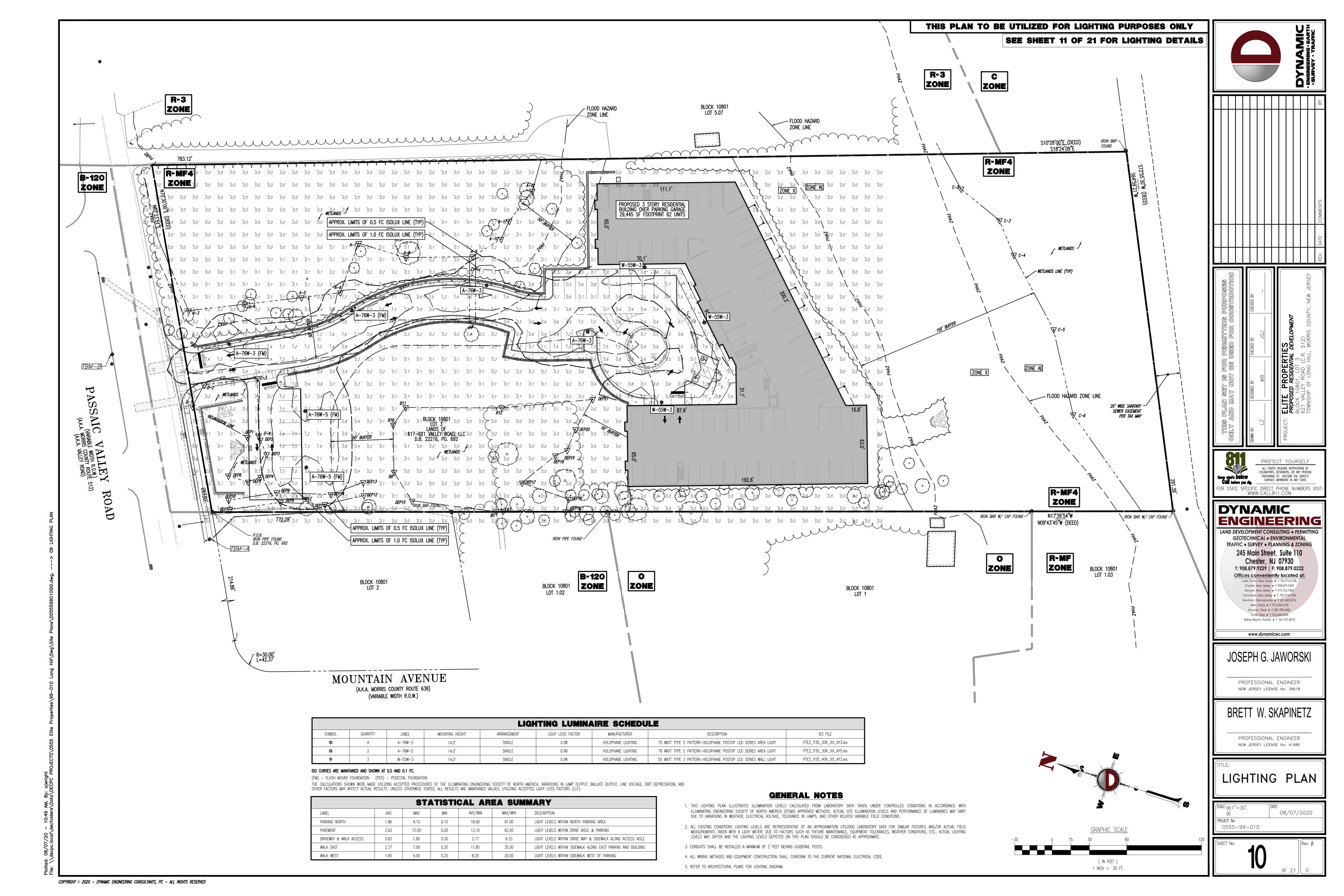
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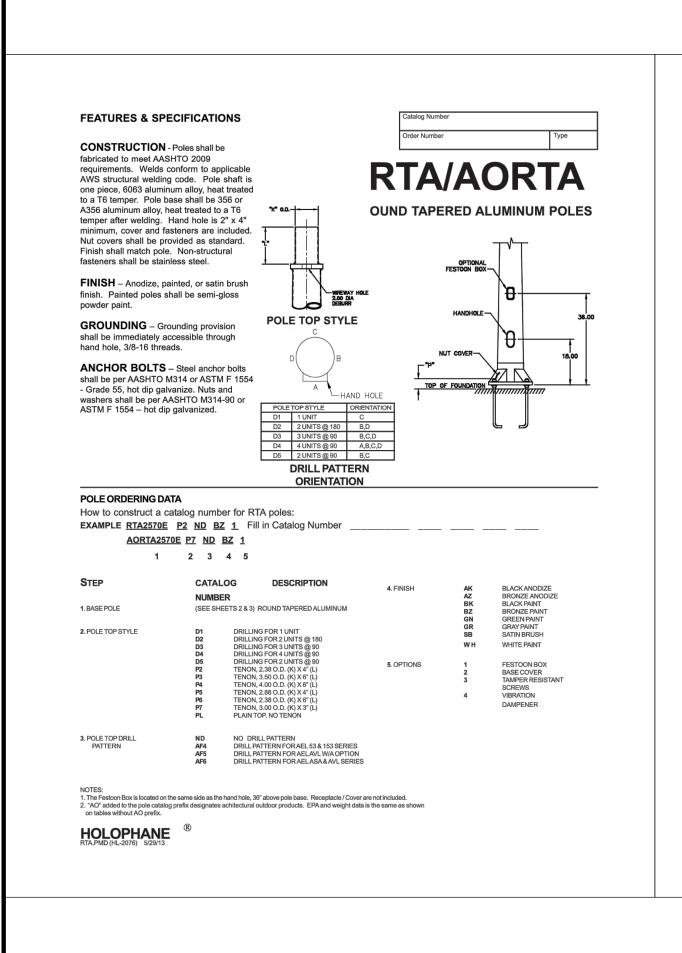


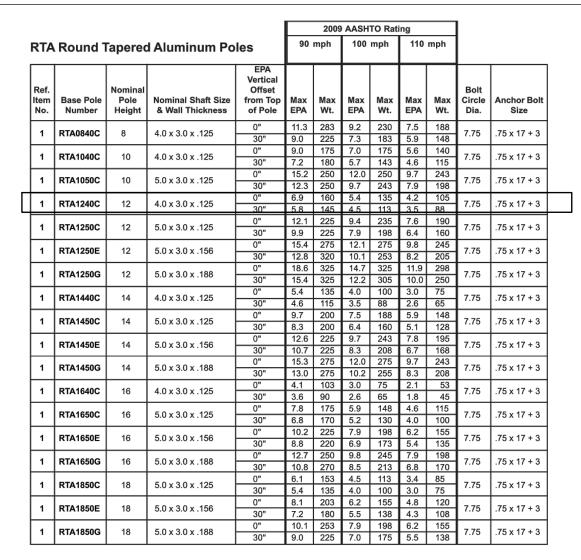
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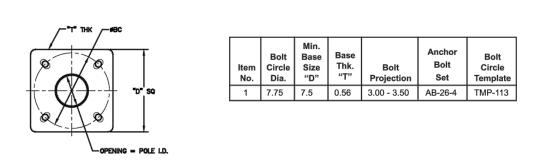
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08/07/2020









BASE DETAIL

Performance Data

AREA LIGHT POLE DETAIL

OR APPROVED EQUAL TO BE APPROVED BY TWP ENGINEER

LIGHT POLE PER -MANUFACTURER SPECIFICATIONS SINGLE OR DOUBLE FIXTURE — (SEE LIGHTING PLAN) BASE PLATE BASE PLATES AND -ANCHOR BOLTS PER POLE MANUFACTURER 2 1/2" X 5" HANDHOLE W/ COVER - PEDESTAL FOR LIGHT LOCATIONS WITHIN PARKING PER MANUFACTURER LOT AREAS (SEE SITE PLAN) 1/2" CONDUIT STUB-UP FLUSH MOUNT (FM) FOR LIGHT LOCATIONS BEHIND -GROUT -CURB, IN ISLAND OR OUTSIDE OF PARKING AREAS 3" PROJECTION (SEE SITE PLAN) (CONFIRM WITH MANUFACTURER) -3'-0" PEDESTAL (PED) FOR LIGHT LOCATIONS WITHIN PARKING AREAS (SEE NOTE 3) GRADE CONCRETE CURB -GALVANIZED ANCHOR BOLTS - REINFORCING TIES (BY LIGHT MANUFACTURER) 3" CLEAR (TYP ➤ SOILS SHALL BE COMPACTED TO 95% - VERTICAL OPTIMUM DRY PROCTOR DENSITY ALL REINFORCEMENT AROUND MIN. BEARING CAPACITY OF 2000 TYPICAL POLE PSF TO BE VERIFIED IN FIELD (TYP.) — FOUNDATION FOUNDATION

NOTE: 1. CONTRACTOR TO CONFIRM ALL LIGHT POLE & FIXTURE DIMENSIONS PRIOR TO CONSTRUCTION. PROPOSED POLE IN COMBINATION WITH CONCRETE PEDESTAL TO EQUAL MOUNTING HEIGHT 'A'. ACTUAL POLE HEIGHT TO BE ADJUSTED ACCORDINGLY.

3. PROPOSED CONCRETE FOUNDATION AND POLE TO BE CONSTRUCTED WITHIN SUBJECT PROPERTY UNLESS OTHERWISE NOTED. SETBACK FROM CURB IS PREFERRED BUT TO BE ADJUSTED AS NEEDED TO PREVENT ENCROACHMENT OVER PROPERTY LINE.

4. BASE PLATE & ANCHOR BOLTS PER POLE MANUFACTURER. LARGER FOOTING DIAMETER AND/OR ALTERNATE ARANCEMENT OF REINFORCING STEEL MAY BE REQUIRED TO ACCOMMODATE ANCHOR BOLT CONFIGURATION. CONTRACTOR RESPONSIBLE TO COORDINATE DIMENSIONAL REQUIREMENTS FOR BASE PLATE, ANCHOR BOLTS & REINFORCING STEEL PRIOR TO CONSTRUCTION.

LIGHT POLE FOUNDATION SCHEDULE								
MOUNTING HEIGHT ABOVE GRADE 'A'	14'							
POLE DIA. 'B'	4" SQUARE (OR PER MANUFACTURER)							
# OF FIXTURES	SINGLE OR DOUBLE							

1. FOOTING DESIGN BASED ON ASSUMED MAXIMUM ALLOWABLE SOILS BEARING CAPACITY OF 2,000 SF PSF. CONTRACTOR RESPONSIBLE TO VERIFY ADEQUACY OF ASSUMED BEARING CAPACITY PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED IF INCONSISTENCIES EXIST. 2. SUBGRADE TO BE FREE OF ORGANICS AND BE SUITABLE, COMPACTED MATERIAL.

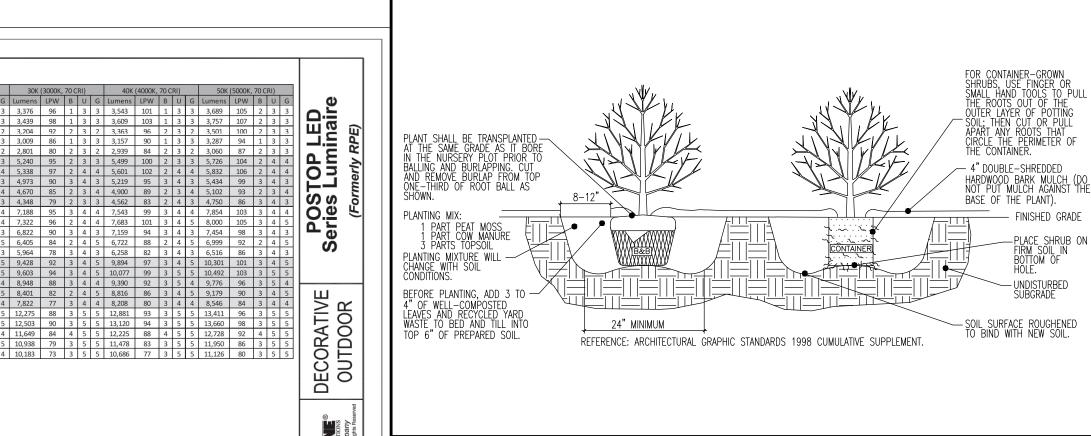
CONCRETE NOTES 1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL FOOTINGS.

2. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1". 3. ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.

4. REINFORCING FRAMEWORK AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE ACI AND UNIFORM BUILDING CODE. 1/6/17 - JGJ

DECORATIVE LIGHT DETAIL

NOT TO SCALE



DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL

NOT TO SCALE

. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL FOLD BURLAP BACK 1/3 FROM TOP ROOT BALL PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY. THOROUGHLY SOAK THE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS. 5. THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING: OTHERWISE, DO NOT PRUNE TREE AT PLANTING 1" VINYL GUYING — EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS - FOLD BURLAP AWAY FROM TOP OF ROOT BALL 2" DIA. HARDWOOD STAKES — ⅓ TREE HT. 3 PER TREE SET ROOT BALL FLUSH TO GRADE OR SEVERAL INCHES HIGHER IN POORLY DRAINING SOILS. — H— 4" BUILT-UP EARTH SAUCER ─ 4" BARK MULCH (DO NOT PLACE MULCH IN CONTACT WITH PREPARED SOIL FOR TREES -TREE TRUNK) 1 PART PEAT MOSS BEFORE PLANTING ADD 3 TO 4" OF WELL-COMPOSTED 1 PART COW MANURE LEAVES OR RECYCLED YARD WASTE TO BED AND TILL 3 PARTS TOPSOIL INTO TOP 6" OF PREPARED SOIL. UNDISTURBED: ₹ 4-6" DEEPER THAN ROOT BALL SUBGRADE - CUT BANDS OF WIRE BASKET AND FOLD AWAY FROM DIG WIDE SHALLOW HOLE -TOP OF ROOT BALL WITH TAMPED SIDES - SET ROOT BALL ON FIRM PAD IN BOTTOM OF HOLE TAMP SOIL SOLIDLY AROUND -BASE OF ROOT BALL REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

EVERGREEN TREE PLANTING DETAIL

THIS PLAN TO BE UTILIZED FOR LIGHTING & LANDSCAPE PURPOSES ONLY

PLANTING SPECIFICATIONS

X. THIS WORK SHALL CONSIST OF PERFORMING, CLEARING AND SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSAR

A. GENERAL - ALL MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) MANUAL OF ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) OR APPROVED B. PLANTS – ALL PLANTS SHALL BE HEALTHY OR NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS . TOPSOIL — LOAMY SILT, HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, PH RANGE BETWEEN 4.5 — 7, BE FREE OF DEBRIS, ROCKS LARGER THAN TWO INCHES (2"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS

D. MULCH — FOUR (4") INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH.

FERTILIZER AND SOIL CONDITIONER — PLANTED AREAS

A. ORGANIC FERTILIZER — SHALL BE PROCESSED SEWER SLUDGE WITH MINIMAL CONTENT OF 1% NITROGEN AND 2% PHOSPHORIC ACID, EQUAL TO 'NITROHUMIS'. B. ORGANIC FERTILIZER AND SOIL CONDITIONER — SHALL BE 'GRO— POWER' AND ORGANIC BASE MATERIALS COMPRISED OF DECOMPOSED ANIMAL AND VEGETABLE MATTER AND COMPOSTED TO SUPPORT BACTERIAL CULTURE:

CONTAINING NO POULTRY OR HUMAN WASTE. GUARANTEED ANALYSIS (5–3–1): NITROGEN 5%. PHOSPHATE 3%, POTASH 1%. 50% HUMUS AND 15% HUMIC ACIDS.

A. LANDSCAPE WORK SHALL COMMENCE AS SOON AS THOSE PORTIONS OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LE IN A CLEAN STATE AT THE END OF EACH DAY'S WORK. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STOCKPILED OR DISPOSED OF. ALL PAVED SURFACES SHALL BE SWEPT CLEAN AT THE END OF EACH DAY A. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE. TOPSOILING

A. CONTRACTOR TO PROVIDE A 4" THICK TOPSOIL LAYER IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO PRODUCE A 4" UNSETTLED THICKNESS. TOPSOIL PRESE AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON—SITE TOPSOIL UTILIZED IN ALL PLANTING AREAS. ADJUST pH AND NUTRIENT LEVELS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM.

A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 6". ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. SPREAD EVENLY IN ALL PLANTING AREAS AI TILL (2 DIRECTIONS) INTO TOP 4" WITH THE FOLLOWING PER 1,000 SQ. FT.: 20 POUNDS 'GRO—POWER' 100 POUNDS AGRICULTURAL GYPSUM

O POUNDS NITROFORM (COURSE) 38-0-0 BLUE CHIP

THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. USE COMPOSTED BARK, RECYCLED YARD WASTE OR PE MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5. B. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAI CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES. . MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

N. PLANTING PITS SHALL BE DUG WITH LEVEL BO FOLLOWING PREPARED SOIL MIXED THOROUGHLY: 1 PART PEAT MOSS BY VOLUME 1 PART COW MANURE BY VOLUME 3 PARTS TOPSOIL BY VOLUME

21 GRAM 'AGRIFORM' PLANTING TABLETS AS FOLLOWS:

LARGER PLANTS (2) TWO TABLETS PER 1/2" DIAM. OF TRUNK CALIPER

WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACK FILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE AF

F. PRUNE ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS TO A MIN. OF 7' BRANCHING HEIGHT.
3. GROUND COVER

GROUND COVER
A. ALL GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING GROUND COVER.
B. SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.
C. IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.
D. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR TO APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED.

**ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR TO APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED.

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**ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. AS PER MANUFACTURER'S RECOMMENDATION.

A. ALL AREAS WILL BE RECEIVED BY THE CONTRACTOR AT SUBSTANTIALLY PLUS/MINUS .1 FOOT OF FINISH GRADE.
B. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. SOIL AREAS ADJACENT TO TH L PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.

A. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF TWO (2) YEARS FROM ACCEPTANCE OF JOB. OWNER TO SECURE A MAINTENANCE BOND FROM THE CONTRACTOR FOR TEN PERCENT (10%) OF THE VALUE CONTRACTOR SHALL GUARANTEE PERIOD AND PASSES A FINAL INSPECTION BY THE OWNER OR OWNERS REPRESENTATIVE. AL UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM

CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

B. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESE TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY WITH HERBICIDE AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS FREE

C. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE C 13. MAINTENANCE (ALTERNATE BID) COST PER MONTH AFTER INITIAL 90-DAY MAINTENANCE PERIOD

PLANTING NOTES

. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.
. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
. PLANTIS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND

4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. 5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL THAT STATED ABOVE. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHOOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (REV. 2001) "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICA

7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI 260.1 (REV. 2001) AMERICAN STANDARD FOR NORSERY AS POBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.

8. ALL PLANTS SHALL BE PLANTED IN AMENDED TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROGRESSES. PLANTING MIX TO BE AS SHOWN ON PLANTING DETAILS. LARGE PLANTING AREAS TO INCORPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS.

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

10. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION. ALL PLANT MATERIAL SHALL BE SPRAYED WITH 'WILT-PRUF' OR EQUAL AS PER MANUFACTURER'S INSTRUCTIONS.
1. NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS.
2. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT II

13. ALL INJURED ROOTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (
CALL INJURED ROOTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (
CAUSE OF THE SHARP TO THE SHAPE OF TREES WILL NOT BE CUT BACK. LONG SIDE BRANCHE
LOWESTER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER OF TREES WILL NOT BE CUT BACK. LONG SIDE BRANCHES HOWEVER, MUST BE SHORTENED.
14. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
15. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES AS A RESULT OF CONSTRUCTION OPERATIONS. ALL EXISTING TREES SHALL BE FERTILIZED WITH A REGULAR GARD FERTILIZER (5-10-5) UPON COMPLETION OF WORK. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE TRUNK. CONTRACTOR TO ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. AT EXPOSED ROOTS SHALL BE CUT BACK WITH SHARP TOOLS AND FILLED AROUND WITH TOPSOIL. COMPLETELY SATURATE THESE AREAS WITH WATER. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN OI (1) DAY. CONTRACTOR IS TO PROTECT ALL EXISTING TREES TO REMAIN BY ERECTING TREE PROTECTION FENCE AT THE DRIP LINE. THIS WILL ENSURE NO COMPACTION OF THE ROOT MASS.

16. ALL PLANTING BEDS SHALL BE MULCHED WITH 4" LAYER OF DOUBLE SHREDED HARDWOOD BARK MULCH.

17. NEW PLANTING AREAS AND SOD SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN.

18. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE AS SHOWN ON THE APPROVED LANDSCAPE PLAN MUST BE INSTALLED, INSPECTED AND APPROVED BY THE MUNICIPAL LANDSCAPE ARCHITECT. THE MUNICIPAL ENGINEER AND LANDSCAPE ARCHITECT SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER AS REQUIRED BY OR ASSOCIATED WITH A SUBDIVISION OR SITE PLAN APPROVAL BY THE PLANNING BOARD OR ZONING BOARD OF ADJUSTMENT SHALL BE INSTALLED DURING THE FOLLOWING DIAMINIAN CEASONIC.

PLANTS 3/15 TO 12/15 LAWN 3/15 TO 6/15

9/15 TO 12/1 VARIETIES SHALL NOT BE PLANTED DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH DIGGING THESE TREES IN THIS SEASON. FURTHERMORE, THE FOLLOWING TREE

AVOID PURCHASING TREES WITH TWO

EXCEPT FOR SPECIFIC STRUCTURAL

– 4" BUILT-UP EARTH SAUCER

CORRECTIONS.

TRFF TRUNK)

LEADERS OR REMOVE ONE AT PLANTING:

OTHERWISE, DO NOT PRUNE TREE AT PLANTING

- FOLD BURLAP AWAY FROM TOP OF ROOT BALL

- SET ROOT BALL FLUSH TO GRADE OR SEVERAL

INCHES HIGHER IN POORLY DRAINING SOILS.

INTO TOP 6" OF PREPARED SOIL.

#=

4−6" DEEPER THAN ROOT BALL

TOP OF ROOT BALL

SET ROOT BALL ON FIRM PAD IN BOTTOM OF HOLE

- 4" BARK MULCH (DO NOT PLACE MULCH IN CONTACT WITH

BEFORE PLANTING ADD 3 TO 4" OF WELL-COMPOSTED

— CUT BANDS OF WIRE BASKET AND FOLD AWAY FROM

LEAVES OR RECYCLED YARD WASTE TO BED AND TILL

BETULA VARIETIES CARPINUS VARIETIES CRATAEGUS VARIETIES KOELREUTERIA PRUNUS VARIETIES
PYRUS VARIETIES
QUERCUS VARIETIES LIQUIDAMBAR STYRACIFLUA PLATANUS ACERFOLIA

1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.

AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.

PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.

1" VINYL GUYING —

2" DIA. HARDWOOD STAKES -

⅓ TREE HT. 3 PER TREE

PREPARED SOIL FOR TREES

1 PART PEAT MOSS

1 PART COW MANURE

3 PARTS TOPSOIL

UNDISTURBED

DIG WIDE SHALLOW HOLE

BASE OF ROOT BALL

TAMP SOIL SOLIDLY AROUND -

SUBGRADE T

WITH TAMPED SIDES

REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL FOLD BURLAP BACK 1/3 FROM TOP ROOT BALL

4. THOROUGHLY SOAK THE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH

5. THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW

REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE

ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE THE WRITTEN APPROVAL BY THE MUNICIPAL ENGINEER OR LANDSCAPE ARCHITECT, PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. THE PLANTING ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY OUTSIDE THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON. 19. ALL DISTURBED AREAS TO BE TREATED WITH TOPSOIL SEED SOD STABILIZATION METHOD.

EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VI: WWW.CALL811.COM **DYNAMIC**

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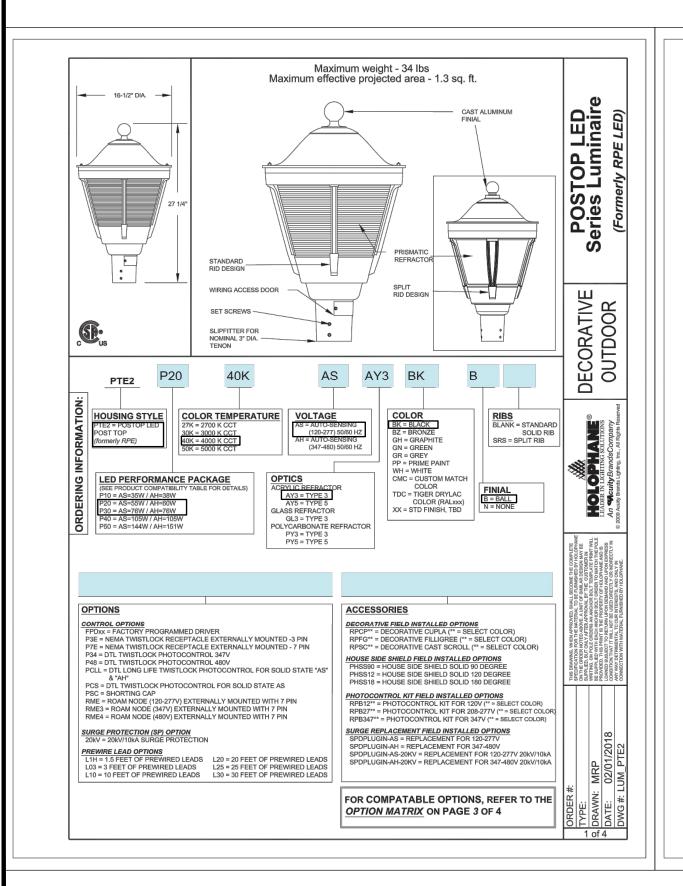
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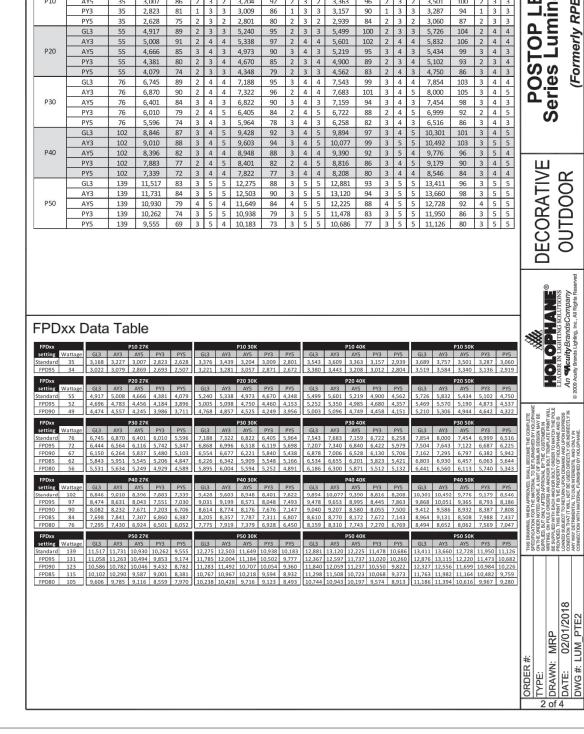
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LIGHTING & LANDSCAPE NOTES & DETAILS

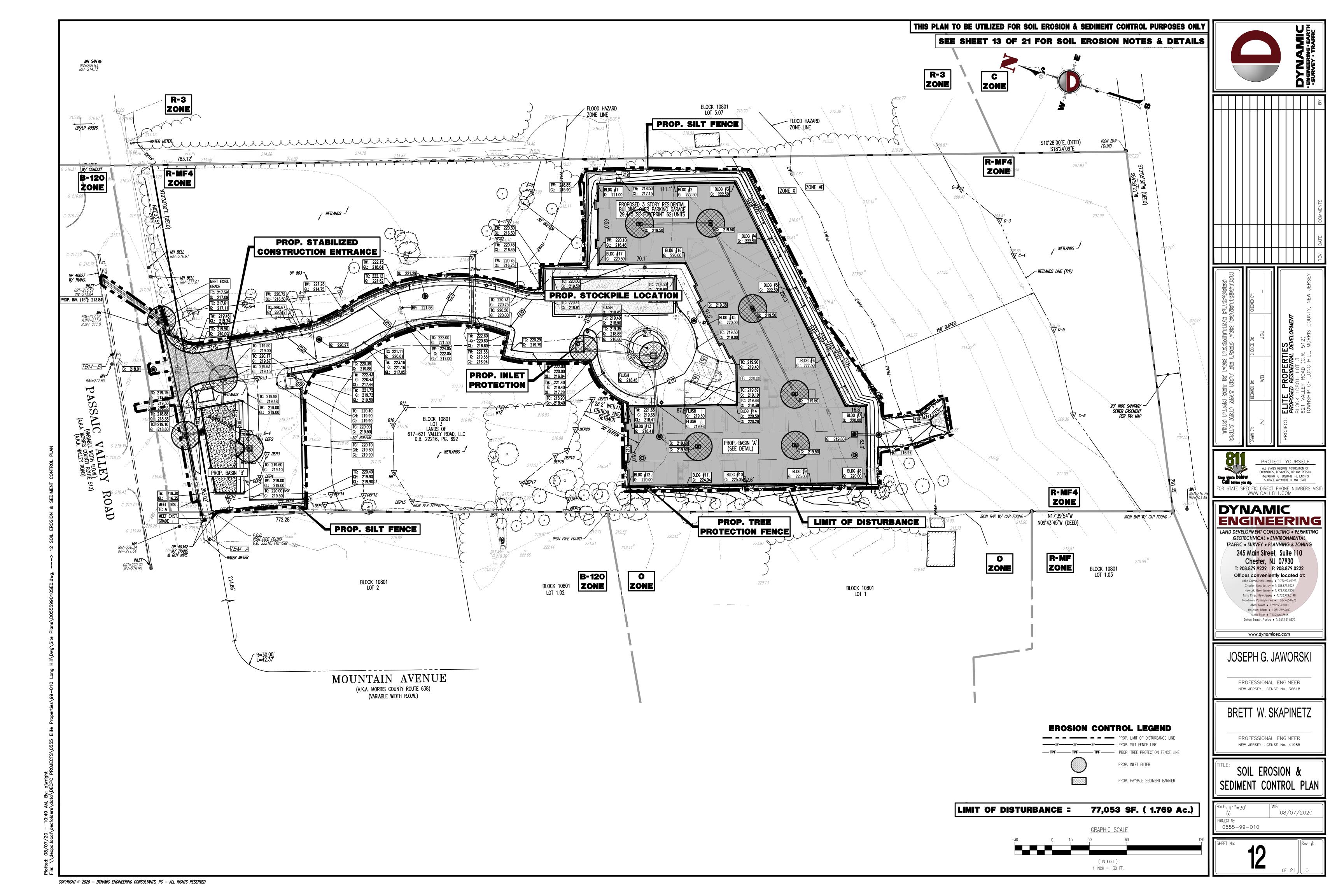
08/07/2020 (V) SHOWN PROJECT No: 0555-99-010

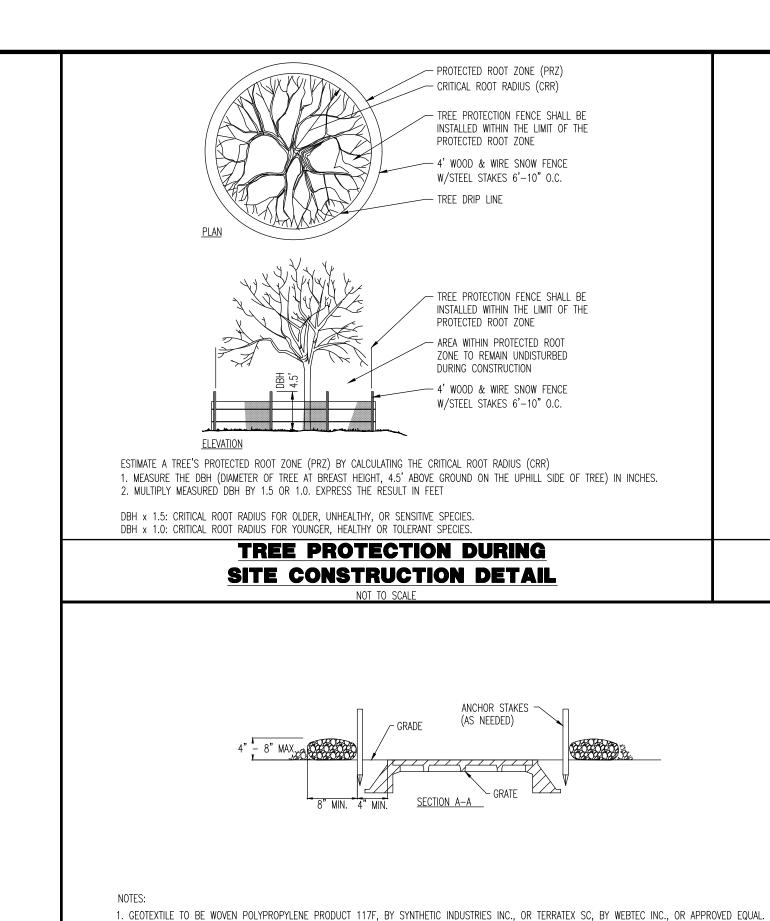




OR APPROVED EQUAL TO BE APPROVED BY TWP ENGINEER

AREA LIGHT W-55W-3, A-76W-3 & A-76W-5 DETAIL





2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO

6. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY

HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM. WHERE SLOPE REQUIRES, AN EARTHEN BERM SHALL BE INSTALLED TO DIRECT STORM FLOW

7. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.

8. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED

3. ANCHOR STAKES OF WOOD OR METAL SHALL BE INSTALLED WHERE REQUIRED BY FIELD CONDITIONS TO PREVENT MOVEMENT OF BARRIER.

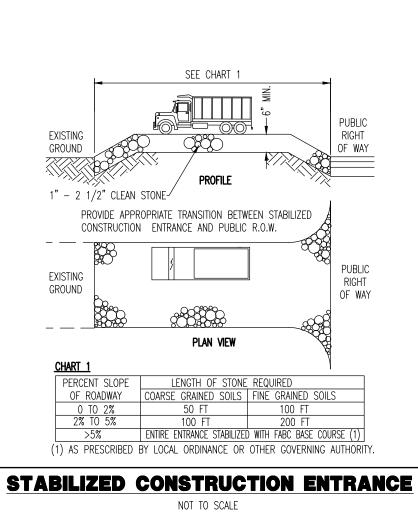
PREVENT LEAKAGE OF STONE.

4. BARRIER SHALL COMPLETELY ENCIRCLE THE DRAIN INLET.

INTO THE INLET. BUT NOT OVER THE CURB.

5. GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES.

WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.



3/4" CLEAN STONE TO SEAL (TYP.) -

TYPE 'E' AND YARD INLET FILTER DETAIL

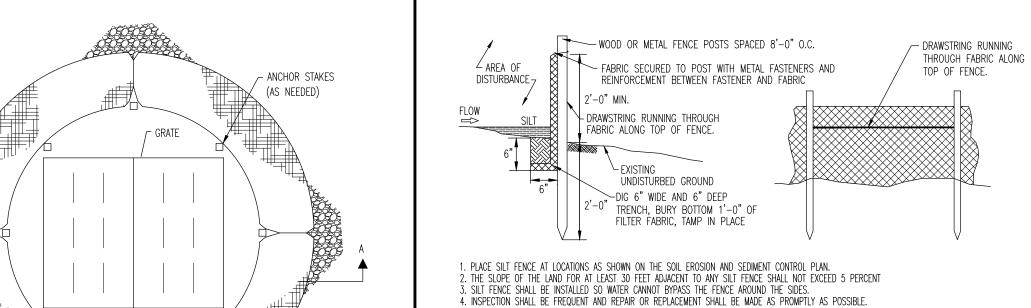
(AS REQUIRED)

PLAN VIEW

PAVEMENT 3/4" CLEAN STONE TO SEAL GEOTEXTILE TUBE AND/OR BAGS FILLED WITH 3/4" CLÉAN STONE (TYP.) (AS REQUIRED) PLAN VIEW I. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 117F, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY WEBTEC INC., OR APPROVED EQUAL. 2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF STONE. 3. WHERE NO CURB IS PRESENT, BARRIER SHALL COMPLETELY ENCIRCLE THE DRAIN INLET. 4. INLET GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES. 5. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM. 6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT. . INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS

NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

INLET FILTER DETAIL NOT TO SCALE

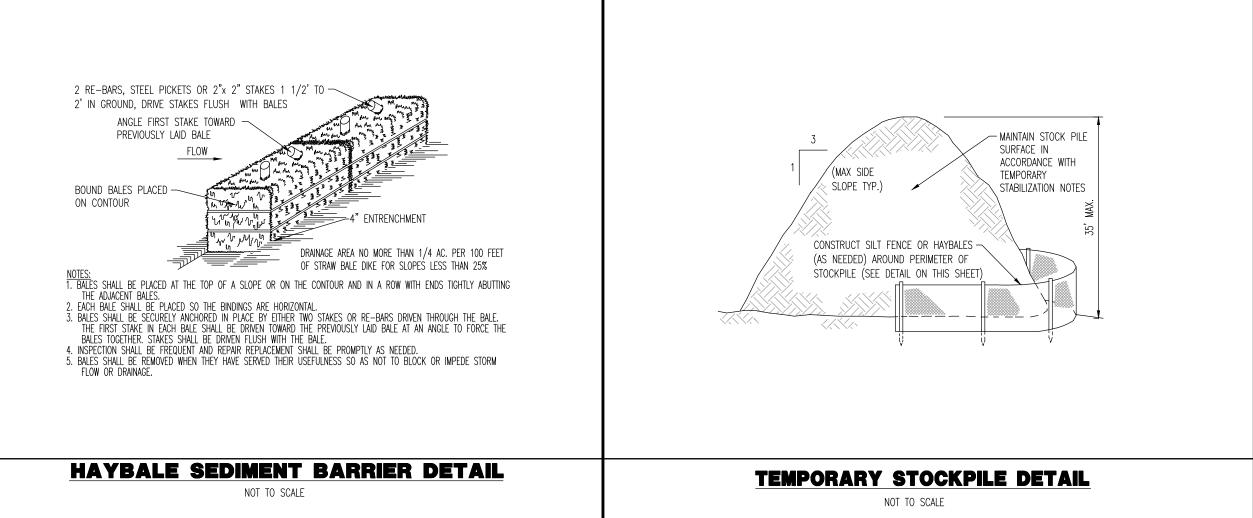


- SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP ENGINEER OR SOIL CONSERVATION DISTRICT 6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE 7. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES.

 8. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO
- PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT 9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

SILT FENCE DETAIL

NOT TO SCALE



GEOTEXTILE TUBE AND/OR

BAGS FILLED WITH 3/4"

CLEAN STONE

SEQUENCE OF CONSTRUCTION:

PHASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE

PERIMETER (2 WEEKS) HAY BALES AND SILT FENCING. PHASE 2: CLEAR AND ROUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES REQUIRING EXCAVATION. (2 WEEKS) PHASE 3: EXCAVATION, CONSTRUCTION, AND STABILIZATION OF DETENTION BASIN(S), EXCAVATE AND INSTALL UNDERGROUND PIPING AND

DRAINAGE STRUCTURES. (3 WEEKS) PHASE 4: EXCAVATE FOR BUILDING FOUNDATION. (3 WEEKS)

SEDIMENT CONTROL FACILITIES.

PHASE 5: COMPLETE BUILDING CONSTRUCTION. (8 MONTHS)

PHASE 6: EXCAVATE AND INSTALL ON SITE IMPROVEMENTS INCLUDING CURBING. (4 WEEKS)

THIS PLAN TO BE UTILIZED FOR SOIL EROSION & SEDIMENT CONTROL PURPOSES ONLY

PHASE 7: FINAL GRADING ON SITE. (4 WEEKS) PHASE 8: INSTALL PAVING, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND LANDSCAPING. (4 WEEKS)

MORRIS COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE <u>STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY</u>, AND WILL BE IN PLACE PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. 2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE

MULCHED WITH STRAW OR HAY AND TACKED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS. SEE NOTE 21 BELOW. 3. PERMANENT VEGETATION IS TO BE ESTABLISHED ON EXPOSED AREA WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH IS TO BE USED FOR PROTECTION UNTIL VEGETATION IS ESTABLISHED. SEE NOTE 22 BELOW.

4. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS (STEEP SLOPES, SANDY SOILS, AND WET

CONDITIONS) SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN ACCORDANCE WITH NOTE 21 BELOW.

5. TEMPORARY DIVERSION BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS. SEE THE DIVERSION DETAIL. 6. PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE "STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION COVER". SPECIFIED RATES AND LOCATIONS SHALL BE ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN. 7. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SO THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND

8. ALL SEDIMENTATION STRUCTURES (SILT FENCE, INLET FILTERS, AND SEDIMENT BASINS) WILL BE INSPECTED AND MAINTAINED DAILY. 9. STOCKPILES SHALL NOT BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, DRAINAGE FACILITY, OR ROADWAY. ALL STOCKPILE BASES SHALL HAVE A SILT FENCE PROPERLY ENTRENCHED AT THE TOE OF THE SLOPE.

10.A STABILIZED CONSTRUCTION ACCESS WILL BE INSTALLED WHENEVER AN EARTHEN ROAD INTERSECTS WITH A PAVED ROAD. SEE THE STABILIZED CONSTRUCTION ACCESS DETAIL AND CHART FOR DIMENSIONS.

11.ALL NEW ROADWAYS WILL BE TREATED WITH SUITABLE SUB-BASE UPON ESTABLISHMENT OF FINAL GRADE ELEVATIONS. 12.PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.

13.BEFORE DISCHARGE POINTS BECOME OPERATIONAL, ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AS REQUIRED.

14.ALL DEWATERING OPERATIONS MUST BE DISCHARGED DIRECTLY INTO A SEDIMENT FILTER AREA. THE FILTER SHOULD BE COMPOSED OF A FABRIC OR APPROVED MATERIAL. SEE THE DEWATERING DETAIL. 15.ALL SEDIMENT BASINS WILL BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY 50%. A CLEAN OUT ELEVATION WILL BE

16.DURING AND AFTER CONSTRUCTION THE APPLICANT WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES, VEGETATION COVER, AND ANY OTHER MEASURES DEEMED APPROPRIATE BY THE DISTRICT. SAID RESPONSIBILITY WILL END WHEN COMPLETED WORK IS APPROVED BY THE MORRIS COUNTY SOIL CONSERVATION DISTRICT.

17.ALL TREES OUTSIDE THE DISTURBANCE LIMIT INDICATED ON THE SUBJECT PLAN OR THOSE TREES WITHIN THE DISTURBANCE AREA WHICH ARE DESIGNATED TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH TREE PROTECTION DEVICES. SEE THE TREE

18.THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON-SITE OR OFF-SITE FROSION PROBLEMS DURING CONSTRUCTION.

19.THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 72 HOURS PRIOR TO ANY LAND DISTURBANCE AND A PRE-CONSTRUCTION MEETING HELD.

20. TOPSOIL STOCKPILE PROTECTION A. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1,000 SF. B. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1.000 SF.

D. MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1,000 SF.

B. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PÉR 1,000 SF.

C. APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1,000 SF AND ANNUAL RYEGRASS AT 1 LB. PER 1,000 SF.

. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH. F. PROPERLY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE.

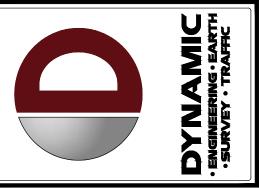
IDENTIFIED ON THE PLAN AND A MARKER INSTALLED ON THE SITE.

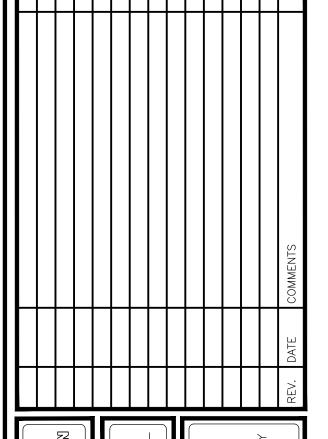
TEMPORARY STABILIZATION SPECIFICATIONS A. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1.000 SE

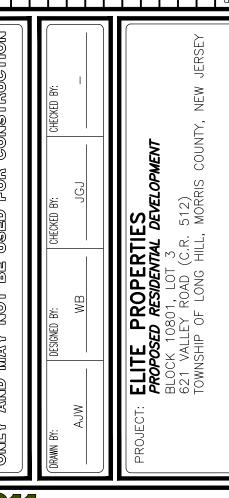
. APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1,000 SF AND ANNUAL RYEGRASS AT 1 LB. PER 1,000 SF.

D. MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS PER 1,000 SF. . APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH. 22. PERMANENT STABILIZATION SPECIFICATIONS A APPLY TOPSOU TO A DEPTH OF 5 INCHES (UNSETTLE

B. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1,000 SF AND WORK FOUR INCHES INTO SOIL. C. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PÉR 1,000 SF. D. APPLY HARD FESCUE SEED AT 2.7 LBS PER 1.000 SF AND CREEPING RED FESCUE SEED AT 0.7 LBS. PER 1.000 SF AND PERENNIAL RYEGRASS SEED AT 0.25 LBS. PER 1,000 SF. E. MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1,000 SF. F. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.









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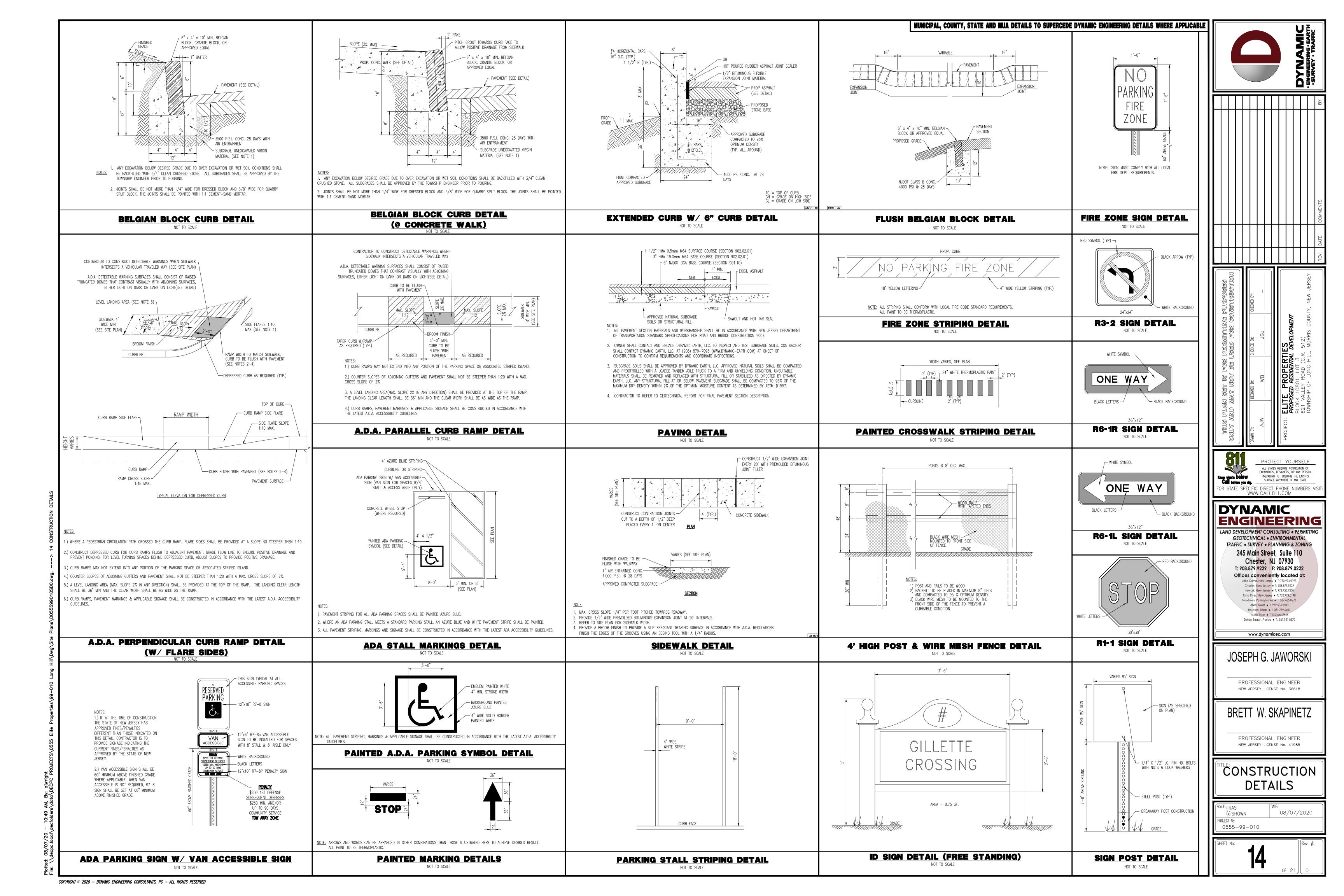
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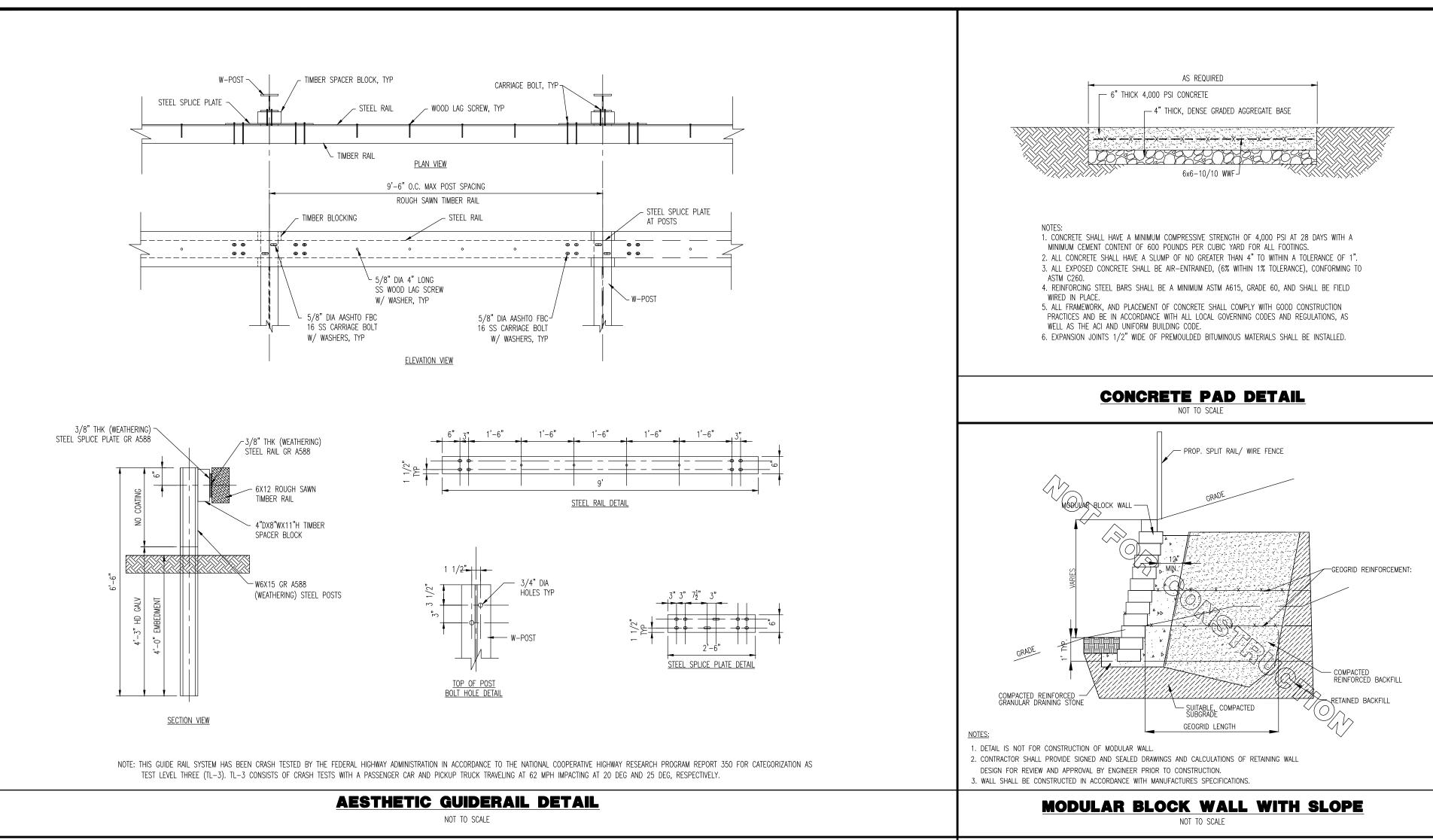
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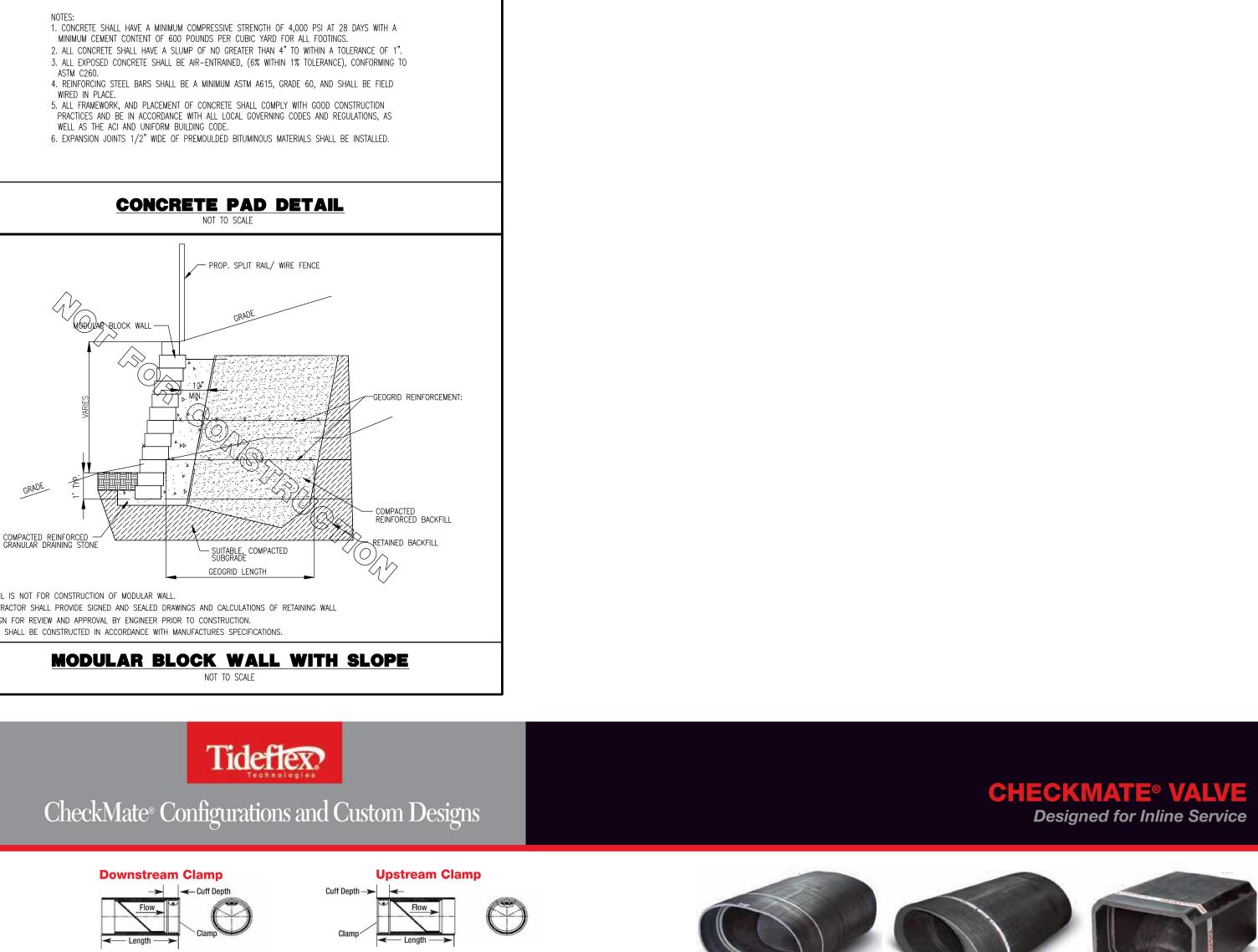
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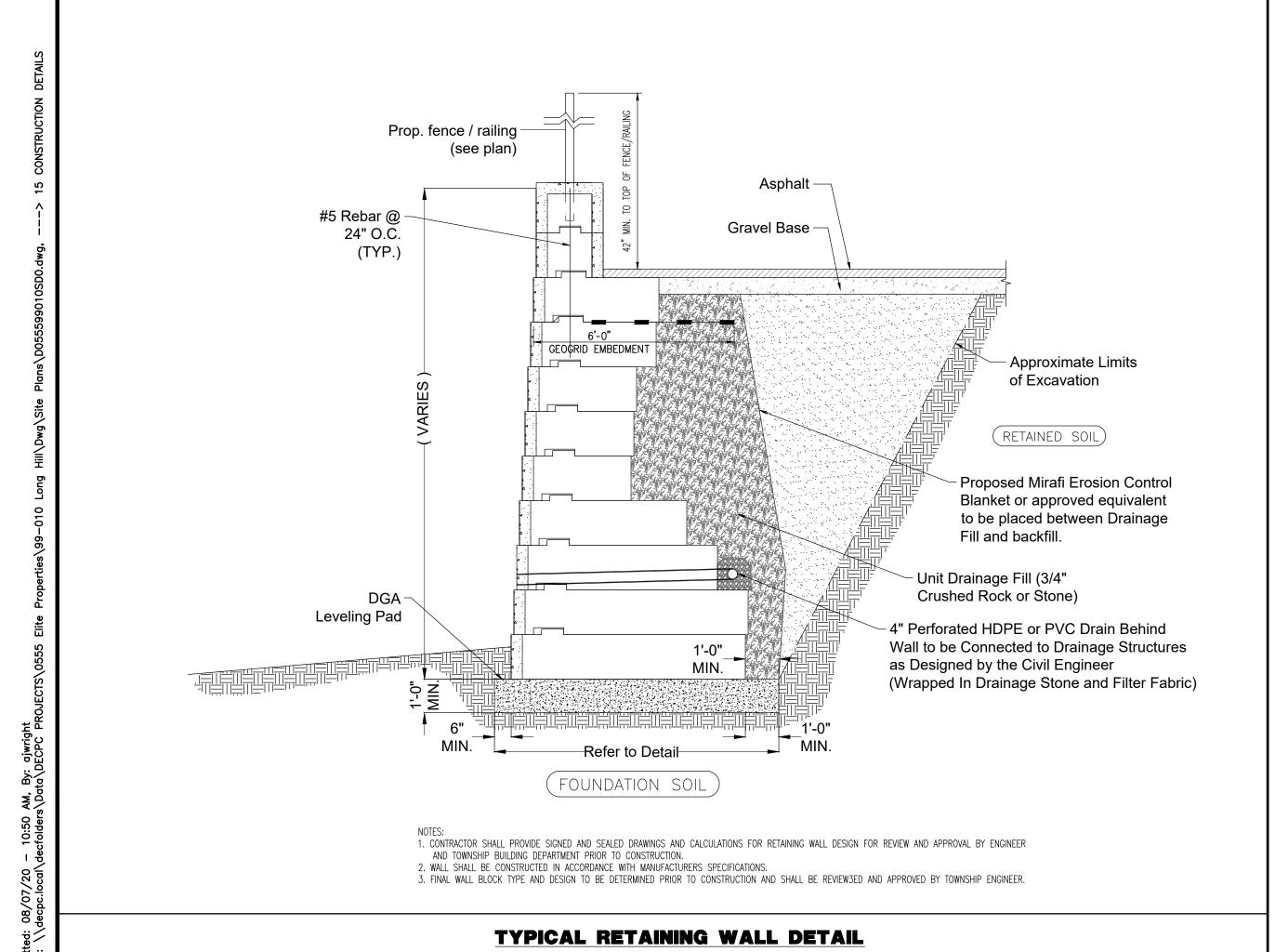
ESOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS

08/07/2020 (V) SHOWN PROJECT No: 0555-99-010











CheckMates® can be made for any pipe I.D. Flange shape and bolt pattern can be customized. Built to fit in sizes from 3" to 78". Flangeless thimble inserts are available.

	NOMINAL PIPE SIZE I.D.		OVERALL LENGTH*		NUMBER	CUFF DEPTH		BACK PRESSURE RATING**		WEIGHT	
İ	Inches	Millimeters	Inches	Millimeters	OF CLAMPS	Inches	Millimeters	Feet	Meters	lbs	Kg
Low Pressure	3 4	75 100	5.1 7.9	130 201	1 1	1.5 1.5	38 38	5 5	1.5 1.5	1.5 1.5	0.7 0.7
	3 4 5 6 7 8	75 100 125 150 175 200	5.1 7.9 9.5 11.0 12.8 15.2	130 201 241 279 325 386	1 1 1 1 1	1.5 1.5 1.5 2.0 2.0 2.0	38 38 38 51 51	85 85 83 83 79 79	26.0 26.0 25.3 25.3 24.1 24.1	3 3 4 9 11 13	1.4 1.5 2 4 5 6
Standard Pressure	9 10 12 14 16 18	225 250 300 350 400 450	15.4 16.1 19.8 25.8 28.6 31.0	391 409 503 655 726 787	1 1 1 1 1	2.0 2.0 2.0 4.0 4.0 4.0	51 51 51 51 102 102	75 71 68 64 60 56	22.9 21.6 20.1 20.0 18.3 17.1	17 20 37 110 133 143	8 10 17 50 52 65
Sta	20 24 30 36 42 48	500 600 750 900 1050 1200	42.1 47.5 54.9 62.3 70.6 79.0	1069 1207 1395 1582 1793 2007	2 2 2 2 2 2	8.0 8.0 8.0 8.0 8.0	203 203 203 203 203 203 203	53 45 38 30 26 23	16.2 13.7 11.6 9.1 7.9 7.0	223 304 500 828 1423 1801	102 137 227 376 646 817
	54 60 72 78	1350 1500 1800 1950	86.4 96.8 119.0 119.0	2195 2459 3023 3023 gths available.	2 2 3 3	8.0 9.0 12.0 12.0	203 229 305 305 *Back pressure	17 15 13 13	5.2 4.6 4.0 4.0	2700 3315 6100 7000	122 150 276 317



Elliptical Pipe CheckMate®



Arch Pipe CheckMate®

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Rectangular Pipe CheckMate®

Elliptical, Arch and Rectangular Pipes

Elliptical, arch and rectangular pipes for drainage and flood prevention projects have become popular, particularly in high water table areas with shallow surface gradients. CheckMate® Inline Check Valves are the perfect solution for backflow prevention in elliptical, arch and rectangular pipes.

Rubber Flanged

Rubber Flanged CheckMate® Valves can be manufactured with an integral rubber upstream or downstream flange. The flanged CheckMate® gets inserted into the host pipe then can be bolted to a mating flange or anchored to a concrete headwall. The flange can be circular with standard drilling; or circular, square or rectangular with custom flange drilling. The valve is supplied with retaining rings for mounting.



A CheckMate® Thimble Insert is a CheckMate® Valve that is factoryinstalled, clamped, and pinned into flanged or plain end pipe. The thimble insert assembly can either be inserted into the I.D. of the host pipe, or can be mounted to a mating flange or concrete headwall and extend beyond the pipe. Plain end thimble inserts are inserted into the host pipe and non-shrink grout is placed between the thimble insert O.D. and host pipe I.D. to form the seal.

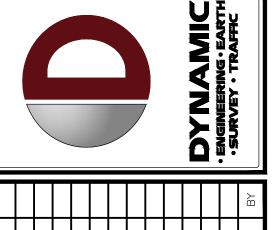


Upstream Flanged CheckMate®



CheckMate® Thimble Insert

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NEW JERSEY LICENSE No. 36618

BRETT W. SKAPINETZ

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NEW JERSEY LICENSE No. 41985

CONSTRUCTION

DETAILS

(V) SHOWN

0555-99-010

PROJECT No:

08/07/2020