STABILIZATION SPECIFICATIONS **TEMPORARY SEEDING AND MULCHING:** MANASQUAN OPEN CLOSED A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, PG. 19-1. FRONT SIGN: **BANK** B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, F PFRIMFTFR C SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42. NCORPORATE 2" OF PEAT INT 5" OF PLANTING MIXTURE, AS C. IMMEDIATELY PRIOR TO SEEDING. THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS 7'-4" - 4" DOUBLE-SHREDDED PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). LIMESTONE - LIMING RATE SHALL BE DETERMINED BY TESTING, BUT IN NO CASE SHALL BE LESS THAN 2 TONS/ACRE. 4" SHREDDED HARDWOOD BARK MULCH. - FERTILIZER - 500 LBS/ ACRE OR 11 LBS/ 1000 SF OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES clearance 9'-10 — FINISHED GRADE FINISHED GRADE COOL SEASON: PERENNIAL RYE GRASS 100LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1 MINIMUM TOPSOIL-WARM SEASON: PEARL MILLET AT 20 LBS/AC. OR OTHER APPROVED SEEDS; to DO NOT ENTER PLANT BETWEEN MAY 15 AND AUGUST 15. EXISTING SUBSOIL BEFORE PLANTING, ADD, 3 SIGN: X(2)- MULCH - UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY AT A RATE OF 1.5-2 TONS PER ACRE 70 TO 90 LBS/1,000 SF TO BE APPLIED <u>BLADE SIGN:</u> ACCORDING TO THE STATE STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, LÍQUID MULCH BINDER, OR TOP 6" OF PREPARED SOIL. REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT. PERMANENT SEEDING: A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING. DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL PERENNIAL/GROUND COVER PLANTING DETAIL B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND NOT TO SCALE NOT TO SCALE C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR MANASQUAN BANK D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. REAR SIGN: SPACING "D" SPACING "A" В ◀── 6" O.C. 5.20" A. SELECT A MIXTURE FROM TABLE 4-3 OR USE A MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE 8" O.C. 6.93" 1. CONSTRUCTION PER ASTM C-913, LATEST REVISION & WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED 10" O.C. 8.66" HS-20 LOADING. SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED 12" O.C. 10.40" 2. ALL CONCRETE TO BE N.J.D.O.T. CLASS "B" CONCRETE. 1. SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE 15" O.C 3. WALLS SHALL BE PRECAST CONCRETE ONLY. 13.00" INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE 4. FRAME AND GRATE TO BE CAMPBELL FOUNDRY CO., NO. 18" O.C. 15.60" SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCE 2618 BICYCLE SAFE N-ECO GRATE SET IN CONC. 24" O.C. 2. WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 850 F AND ABOVE. SEE TABLE 20.80" 5. STEEL REINFORCED COPOLYMER POLYPROPYLENE LADDER 30" O.C. 4-3 MIXTURES 1 TO 7. PLANTING RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY 26.00" RUNG @ 12" O.C. ATM SURROUND: ATM 36" O.C. ATM SIGN X(1): 30.00 6. WHEN ADDITIONAL DEPTH IS SCHEDULED, WALLS BELOW 3. COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 850F. MANY GRASSES BECOME ACTIVE AT 650F. SEE TABLE 4-3, MIXTURES 8-20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL 8'-0" MEASURED FROM GRATE TO INVERT SHALL BE 12 THICK AND EXTEND 12" BEYOND OUTSIDE OF WALL. SFASON GRASSES. PERENNIAL GROUNDCOVER/SPACING DETAIL SIGN DETAILS B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL. C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED—TO—SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE PROTECTED ROOT ZONE (PRZ) D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK. OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP - CRITICAL ROOT RADIUS (CRR) FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. 2'-0" 2'-0" SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A TREE PROTECTION FENCE SHALL BE PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO INSTALLED WITHIN THE LIMIT OF THE SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH. PROTECTED ROOT ZONE LIMESTONE - LIMING RATE SHALL BE DETERMINED BY TESTING, BUT IN NO CASE SHALL BE LESS THAN 2 TONS/ACRE. Drive-up — 4' WOOD & WIRE SNOW FENCE CAMBELL FOUNDARY NO. 2618 N-ECO GRATE - FERTILIZER - 500 LBS/ ACRE OR 11 LBS/ 1000 SF OF 10-10-10 OR EQUIVILANT WITH 50% WATER INSOLUABLE NITROGEN UNLESS A SOIL TEST INDICATES **Exit** Do Not OTHERWISE. W/STEEL STAKES 6'-10" O.C. Drive-up ATM > GENERAL SITE SEEDING MIX: TALL FESCUE - 265 LBS/ACRE 6.0 LBS/1000 SQ.FT. Parking KY. BLUEGRASS - 20 LBS/ACRE 0.5 LBS/1000 SQ.FT. **Enter** — 6" CLASS "B" CONCRETE PERENNIAL RYEGRASS – 20 LBS/ACRE 0.5 LBS/1000 SQ.FT. 4'-0" PERMANENT STABILIZATION SPECIFICATIONS: A. MULCHING MULCH MATERIALS TO BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY AT THE RATE OF 1.5 TO 2 TONS PER ACRE OR 70 TO 90 STEEL REINFORCED —— COPOLYMER POLYPROPYLENE POUNDS PER 1,000 SQ. FT. EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER THE RATE OF APPLICATION IS 3 TONS PER ACRE. - TREE PROTECTION FENCE SHALL BE B. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF SOIL SURFACE WILL BE COVERED. LADDER RUNG @ 12" O.C. INSTALLED WITHIN THE LIMIT OF THE C. MULCH ANCHORING TO BE DONE IMMEDIATELY AFTER PLACEMENT BY ONE OF THE FOLLOWING METHODS PIPE SIZE VARIES PROTECTED ROOT ZONE) PEG AND TWINE allo (SEE GRADING PLAN) MULCH NETTING - ARFA WITHIN PROTECTED ROOT (3) LIQUID MULCH—BINDERS ZONE TO REMAIN UNDISTURBED —−6"MIN CRUSHFD D. CRIMPER (MULCH ANCHORING COULTER TOOL) DURING CONSTRUCTION STONE BEDDING manasquan.ban UNDER ENTIRE 1 INVERT TO BE 0.8 OF DIA. - 4' WOOD & WIRE SNOW FENCE PERMANENT. FROSION RESISTANT GROUND COVER TO BE PROVIDED BETWEEN PANEL ROWS AND UNDER PANEL ROWS AS WELL AS OTHER DISTURBED AREAS. ESTABLISHING INLET (TYP.) W/STEEL STAKES 6'-10" O.C. VEGETATION UNDER PANELS MAY BE DIFFICULT DUE TO LACK OF SUN AND LIMITED PRECIPITATION. THOUGHT SHOULD BE GIVEN TO ESTABLISHING VEGETATIVE GROUND COVER PRIOR TO PANEL CONSTRUCTION. INSTALLATION MAY BE FACILITATED BY PHASING THE GRADING AND STABILIZATION SEQUENCE OF SUBSEQUENT PROJECT AREAS TO ALLOW SUFFICIENT TIME TO ALLOW VEGETATION TO BECOME ESTABLISHED PRIOR TO PANEL INSTALLATION. — INLET FOUNDATION TO ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR) STANDARD FOR STABILIZATION WITH MULCH ONLY 1. MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5' ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES. BE EXTENDED 6" SECTION A-A SECTION B-B WHERE DEPTH EXCEEDS A. UNROTTED SMALL-GRAIN STRAW, OR SALT HAY AT 2.0 TO 2.5 TONS PER ACRE IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1.000 SQUARE FEET AND ANCHORED 2. MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET THROUGH" INLET DETAII 8' EXCEPT IN ROCK TERMINAL INLET DETAIL DRH x 1.5· CRITICAL ROOT RADIUS FOR OLDER LINHFALTHY OR SENSITIVE SPECIES B. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAYBE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER. DBH x 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY OR TOLERANT SPECIES. C. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE (OR ACCORDING TO THE MANUFACTURER'S REQUIREMENTS) MAY BE APPLIED BY A TREE PROTECTION DURING DO NOT ENTER SIGN DETAIL ENTER SIGN DETAIL EXIT SIGN DETAIL D. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAYBE USED. E. WOOD CHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES MAY BE USED EXCEPT IN AREAS OF FLOWING WATER. F. GRAVEL, CRUSHED STONE, OR SLAG AT RATE OF 9 CUBIC YARDS PER 1000 SQ. FT. AT DEPTH OF 3 INCHES. TYPE 'B' INLET SITE CONSTRUCTION DETAIL G. MULCH ANCHORING TO BE DONE IMMEDIATELY AFTER PLACEMENT BY ONE OF THE FOLLOWING METHODS:) MULCH NETTING STEEL REINFORCED COPOLYMER POLYPROPYLENE RUBBER GASKET & CEMENT GROUT (4) CRIMPER (MULCH ANCHORING COULTER TOOL) LADDER RUNG @ 12" O.C. WOOD OR METAL FENCE POSTS SPACED 8'-0" O.C. AT EACH JOINT IN CONFORMANCE DRAWSTRING RUNNING THROUGH FABRIC ALONG — SIGN (AS SPECIFIED ON PLAN) FABRIC SECURED TO POST WITH METAL FASTENERS AND ODATE TOP OF FENCE. FREEHOLD SOIL CONSERVATION DISTRICT DISTURBANCE -REINFORCEMENT BETWEEN FASTENER AND FABRIC PRECAST MANHOLE TO REMOVE CROWN OF PIPE WITHIN BE CONSTRUCTED & REINFORCED IN ACCORDANCE 4" MIN. SECTION A-A SOIL EROSION AND SEDIMENT CONTROL NOTES MANHOLE lacksquare drawstring running through WITH ASTM. SPEC. NON-SHRINK GROUT 1. THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY. FABRIC ALONG TOP OF FENCE. C-478-90b 2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. EQUAL TO 0.80 TIMES DIA. OF EXISTING UNDISTURBED GROUND ∽DIG 6" WIDE AND 6" DEEP SEWER MAIN FOR SIZES 16 I.S.A 4:24-39 ET. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN L. COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT-BY-LOT OR CITION-BY-SECTION BASIS, PROVIDED THAT THE PROJECT OR PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TRENCH, BURY BOTTOM 1'-0" OF 1/4" X 1/2" LG. PIN HD. BOLT FILTER FABRIC, TAMP IN PLACE WITH NUTS & LOCK WASHERS STEEL POST (TYP.) TEMPORARY MEASURES FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLUDING PROVISIONS FOR STABILIZATION AND SITE WORK. PAVEMENT 1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT - BREAKAWAY POST CONSTRUCTION THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5 PERCENT SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE SIDES. 3/4" CLEAN STONE TO SEAL GEOTEXTILE TUBE AND/OR BAGS N PLACE BASE CLASS PLAN VIEW FILLED WITH 3/4" CLEAN STONE MATERIAL, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO THE STANDARD FOR STABILIZATION WITH MULCH ONLY (TYP.) (AS REQUIRED) . INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. SOIL STOCKPILES, STEEP SLOPES AND ROADWAY 5. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP ENGINEER OR SOIL 1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 117F, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AND A MULCH ANCHOR, IN ACCORDANCE WITH STATE STANDARDS. 4 - #5 DOWELS WEBTEC INC., OR APPROVED EQUAL. 6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM (2 EACH SIDE OF PIPE) 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. FLOW OR DRAINAGE. NOTES: 1. TWO SEPARATE COATS OF APPROVED BITUMASTIC WATERPROOFING COMPOUND SHALL BE APPLIED PER MANUFACTURERS 7. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND 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. 7. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING. INSTRUCTIONS TO THE ENTIRE EXTERIOR OF STRUCTURE EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES. 2. TWO SEPARATE COATS OF APPROVED TWO-PART EPOXY COATING SHALL BE APPLIED PER MANUFACTURERS INSTRUCTIONS TO THE 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 8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ACCESS CONSISTING OF ONE INCH ENTIRE INTERIOR OF STRUCTURE PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT TO TWO INCH (1" - 2") STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF. 6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED 3. MANHOLES TO 8' DEEP SHALL BE SINGLE WALL CONSTRUCTION (6") MANHOLES 8' TO 12' DEEP SHALL BE DOUBLE WALL 9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. BY THE SOIL CONSERVATION DISTRICT. CONSTRUCTION (12") 9. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY . INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, A THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE ARÉA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED DOGHOUSE MANHOLE DETAIL 10. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL SIGN POST & FOOTING DETAIL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH. 11. AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED. NOT TO SCALE SILT FENCE DETAIL INLET FILTER DETAIL this plan set is for permitting purposes only and may not be used for construct NOT TO SCALE 12. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS/ACRE, (OR 450 LBS/1,000 SQ FT OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 24" WHERE TREES OR SHRUBS ARE TO BE PLANTED. 13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL. WHITE SYMBOL -14. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING. 2 RE-BARS, STEEL PICKETS OR 2"x 2" STAKES 1 1/2' TO -2' IN GROUND, DRIVE STAKES FLUSH WITH BALES LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING & ZONING 15. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL. ANGLE FIRST STAKE TOWARD Ottices conveniently located in: Lake Como, New Jersey T: 732.974.0198 | Chester, New Jersey T: 908.879.9229 | Newark, New Jersey T: 973.755.7200 | Toms River, New Jersey T: 732.974.0198 PREVIOUSLY LAID BALE Allen, Texas T: 972.534.2100 | Austin, Texas T: 512.646.2646 | Houston, Texas T: 281.789.6400 Newtown, Pennsylvania T: 267.685.0276 | Delray Beach, Florida T: 561.921.8570 - MAINTAIN STOCK PILE 16. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5,000 SQUARE FEET IS DISTURBED. SURFACE IN ACCORDANCE WITH (MAX SIDE TEMPORARY CONSTRUCTION DETAILS BOUND BALFS PLACED -SLOPE TYP.) STABILIZATION NOTES 17. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6. ON CONTOUR ► BLACK BACKGROUND BLACK LETTERS -18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT. 4" ENTRENCHMENT : MANASQUAN BANK 0036-99-007 PROPOSED BANK W/ DRIVE-THRU CONSTRUCT SILT FENCE OR HAYBALES DRAINAGE AREA NO MORE THAN 1/4 AC. PER 100 FEET **SEQUENCE OF CONSTRUCTION:** BLOCK 114, LOTS 24, 25, 26, & 66 (AS NEEDED) AROUND PERIMETER OF OF STRAW BALE DIKE FOR SLOPES LESS THAN 25% KJH **R6-1R SIGN DETAIL** NOTES: 1. BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING 429 MAIN STREET STOCKPILE (SEE DETAIL ON THIS SHEET) PHASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION AND SEDIMENT CONTROL DESIGNED BY: BOROUGH OF METUCHEN, MIDDLESEX COUNTY, NEW JERSEY NOT TO SCALE KCK MEASURES INCLUDING DOWN SLOPE PERIMETER HAYBALES, SILT FENCING AND TREE 2. FACH BALE SHALL BE PLACED SO THE BINDINGS ARE HORIZONTAL. 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE—BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE CHECKED BY: PHASE 2: CLEAR AND ROUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES REQUIRING CHECKED BY: EXCAVATION. KYLE C. KAVINSKI JOHN A. PALUS PHASE 3: EXCAVATE FOR BUILDING FOUNDATION. 4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPTLY AS NEEDED

5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM

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NEW JERSEY LICENSE No. 52985

(V) SHOWI

PHASE 5: EXCAVATE AND INSTALL ON-SITE IMPROVEMENTS INCLUDING CURBING, UNDERGROUND

PHASE 7: INSTALL PAVING, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND

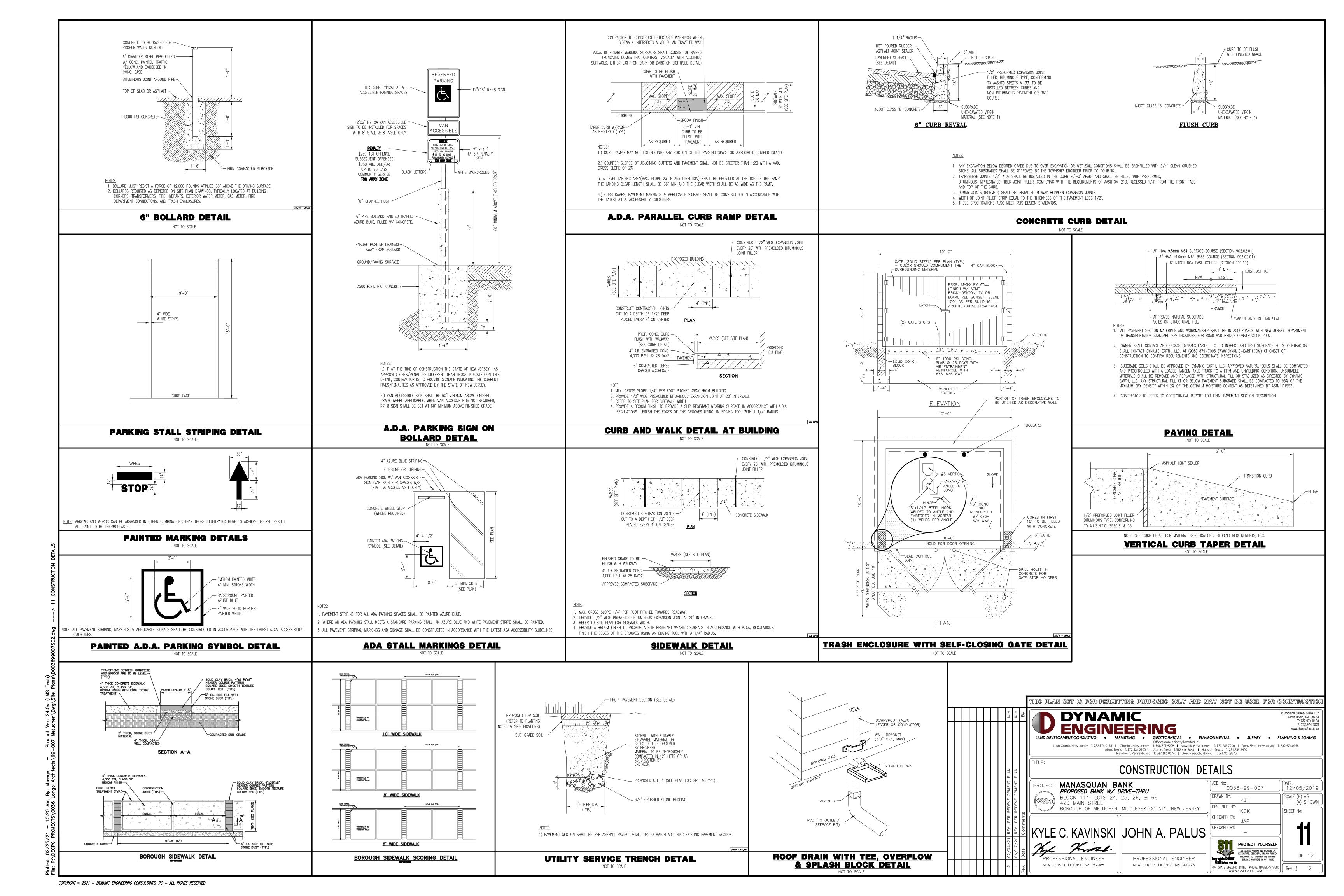
PHASE 8: REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER HAYBALES, SILT FENCING AND TREE PROTECTION FENCING.

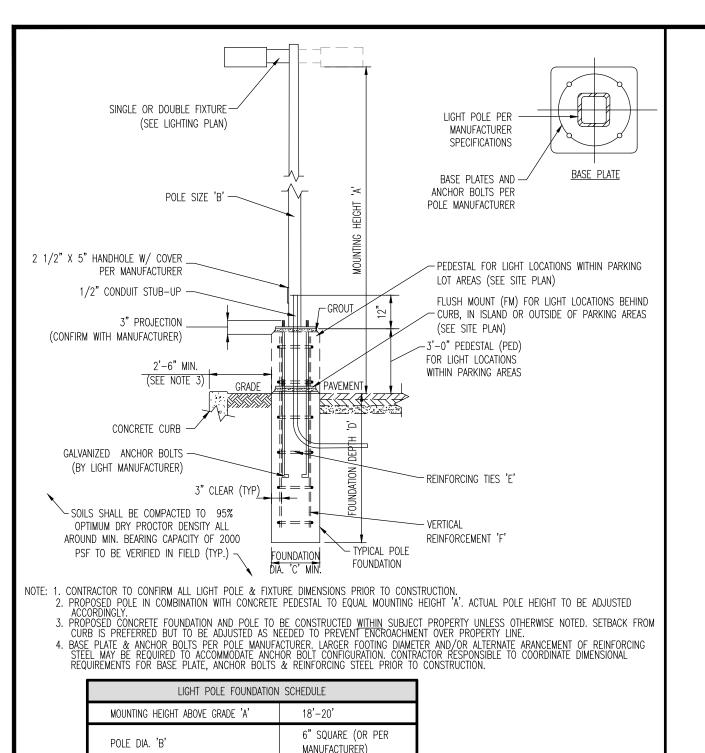
PHASE 4: COMPLETE BUILDING CONSTRUCTION.

PHASE 6: FINAL GRADING ON SITE.

LANDSCAPING.

PIPING, AND DRAINAGE STRUCTURES.





SINGLE OR DOUBLE

18" DIA. ROUND

#4 @ 12" O.C.

(6) #6 BARS

ÈQUÄLLY SPACED

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.

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.

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.

AREA LIGHT FOUNDATION DETAIL NOT TO SCALE

OF FIXTURES

CONCRETE NOTES

FOUNDATION DIAMETER 'C

FOUNDATION DEPTH 'D'

REINFORCING TIES 'E'

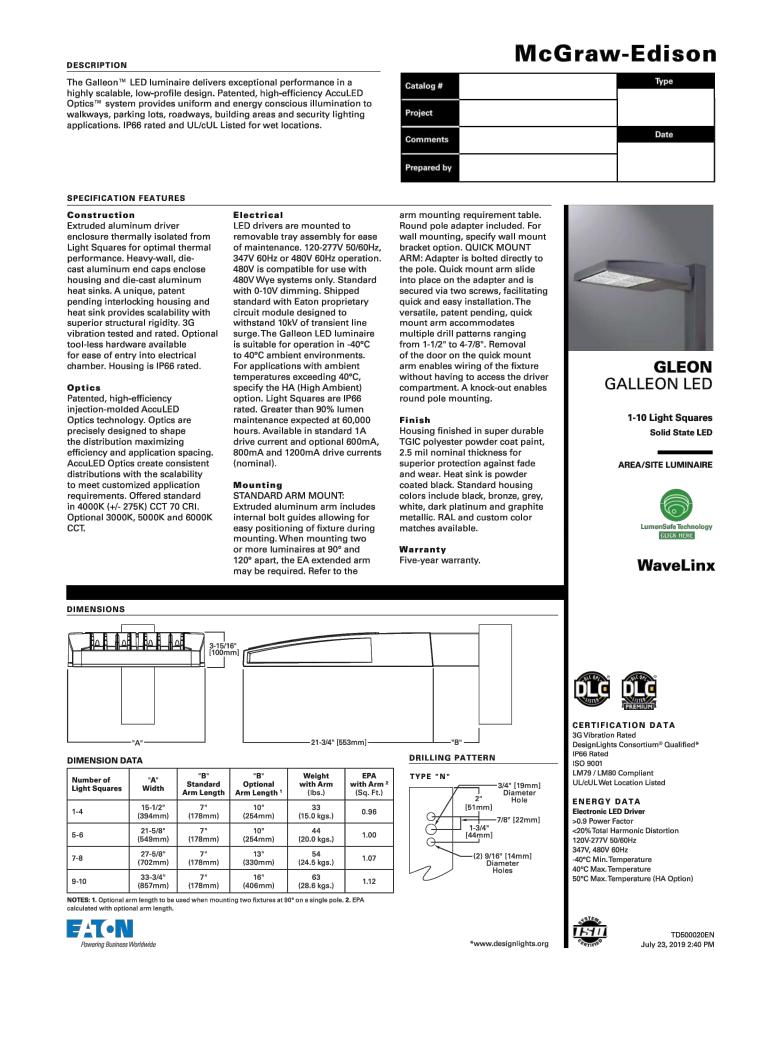
VERTICAL REINFORCEMENT 'F'

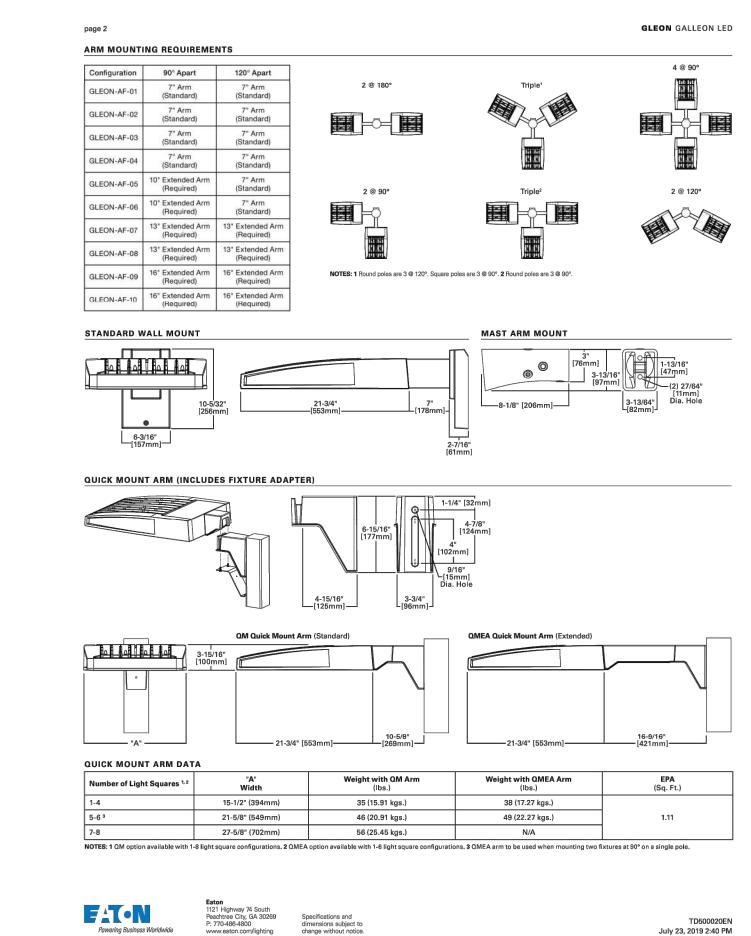
2. SUBGRADE TO BE FREE OF ORGANICS AND BE SUITABLE, COMPACTED MATERIAL.

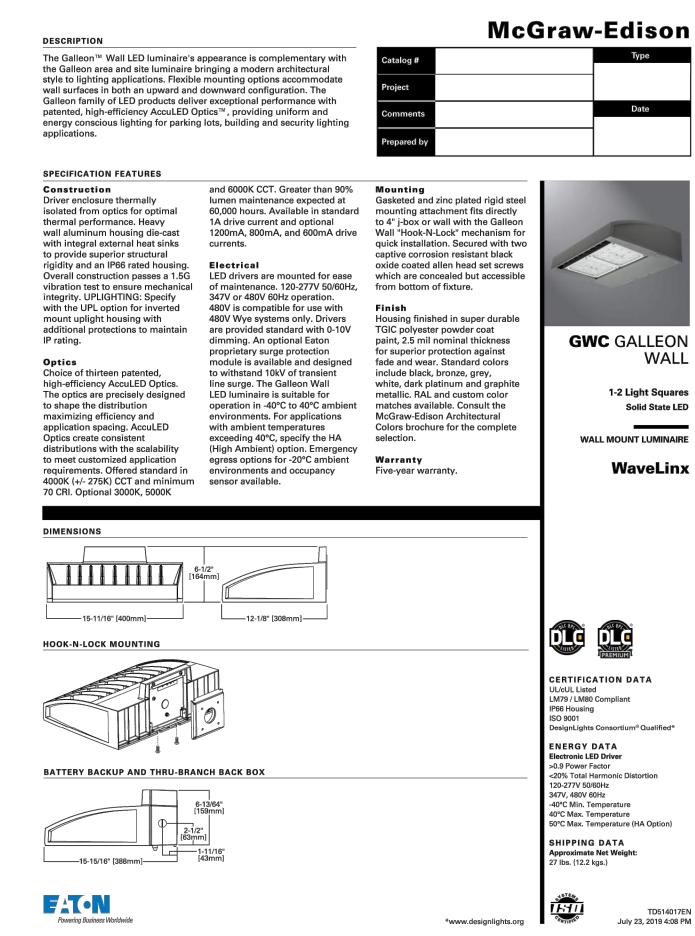
2. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".

3. ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.

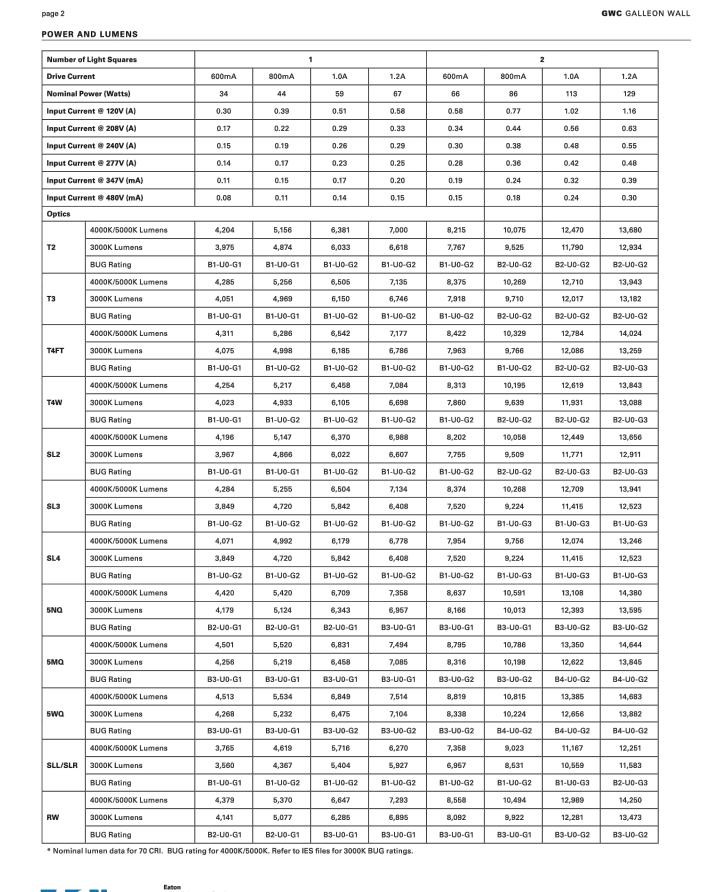


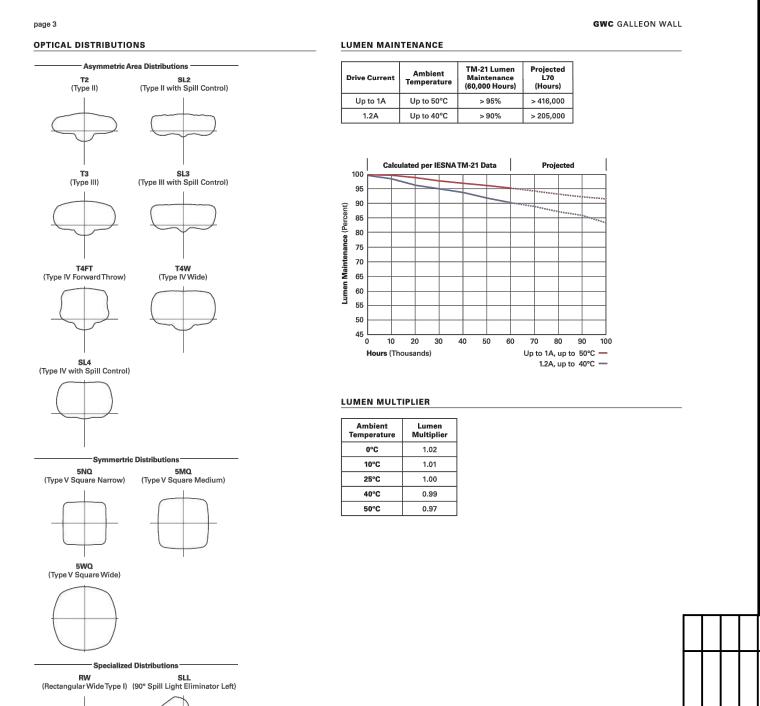






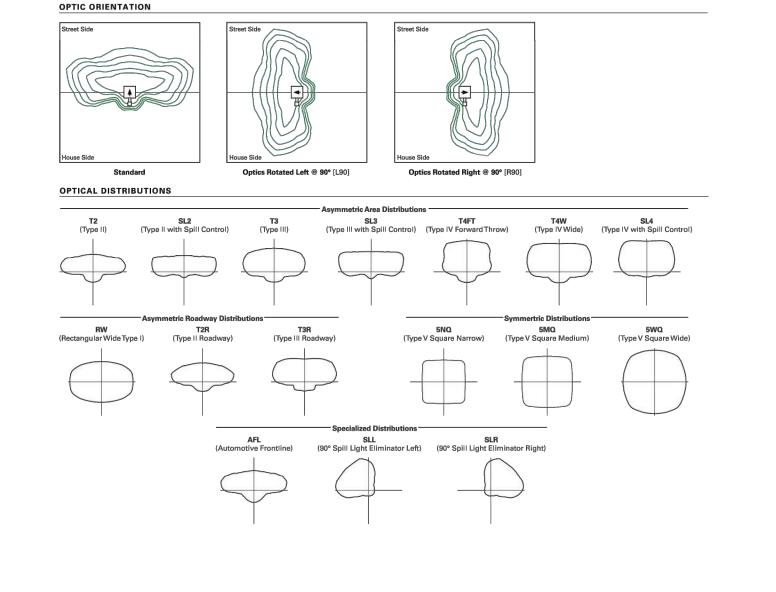
WALL

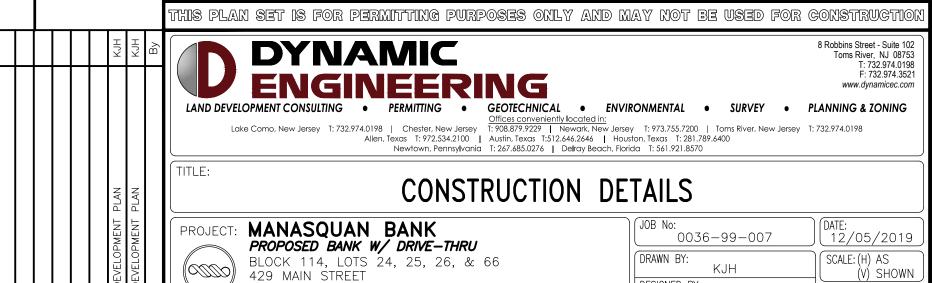




(90° Spill Light Eliminator Right)

July 23, 2019 4:08 PM





429 MAIN STREET DESIGNED BY: BOROUGH OF METUCHEN, MIDDLESEX COUNTY, NEW JERSEY KCK SHEET No: CHECKED BY: KYLE C. KAVINSKI JOHN A. PALUS The Kinse. PROTECT YOURSELF

PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE PROFESSIONAL ENGINEER Know what's below Call before you do. NEW JERSEY LICENSE No. 52985 NEW JERSEY LICENSE No. 41975 FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: | Rev. #