LEGEND

NOTE: ALL SYMBOLS MAY NOT BE USED

UTILITIES

ITEM	DESCRIPTION	EXISTING	PROPOSED
	OVERHEAD WIRE	OHW	
	SANITARY FORCE MAIN PIPE	FM	FM
	STORM SEWER PIPE ≤12"	D	D
	STORM SEWER PIPE >12"	(SIZE & TYPE)	(SIZE & TYPE)
	GAS SERVICE	G	G
	SANITARY SEWER PIPE ≤12"	S	S
	SANITARY SEWER PIPE >12"	(SIZE & TYPE)	(SIZE & TYPE)
	ELECTRIC SERVICE	E	E
	FIBER OPTIC SERVICE	FO	FO
	TELEPHONE SERVICE	T	T
	COMMUNICATIONS SERVICE	C	C
	IRRIGATION PIPE	IRR	IRR
	WATER SERVICE	W	W
	WATER SHUT-OFF		
	WATER METER		
	WATER VALVE		NEW RESET
	WATER HYDRANT		NEW RESET
	WELL		
	YARD HYDRANT		
	METER PIT		
	GAS SHUT-OFF		
	GAS METER		
	GAS VALVE		NEW RESET
	GAS LINE MARKER		
	CLEANOUT		
	SEWER VENT		
	INLET TYPE A		NEW RESET SET RECONSTRUCT
	INLET TYPE B	NEW CASTING SEE PLANS	NEW RESET SET RECONSTRUCT
	INLET TYPE E		NEW RESET SET RECONSTRUCT
	AREA DRAIN		
	MANHOLES	SANITARY, DRAINAGE, TELEPHONE, WATER, CATV, UNDERDRAIN, ELECTRIC, GAS, UNKNOWN	NEW RESET RECONSTRUCT
	IRRIGATION CONTROL VALVE		NEW RESET
	IRRIGATION BOX		
	IRRIGATION CONTROL BOX		
	SPRINKLER HEAD		
	UNKNOWN VALVE		
	COMMUNICATIONS PEDESTAL		
	COMMUNICATIONS LINE MARKER		
	TELEPHONE PEDESTAL		
	TELEPHONE LINE MARKER		
	ELEC. BOX		
	ELEC. METER		
	ELEC. TRANSFORMER PAD		
	ELEC. VAULT		
	ELEC. LINE MARKER		
	UTILITY POLE	STANDARD W/ LIGHT W/ SOLAR	
	GUY ANCHOR		
	ELEC. OUTLET		
	LIGHTS	POLE, AREA	
	VENT		
	VENT PIPE		

SURVEY

ITEM	DESCRIPTION	EXISTING	PROPOSED
	CROWS FOOT		
	AERIAL TARGET		
	CONCRETE MONUMENT		(SET)
	PK / MAG NAIL DRILL HOLE SPIKE		(SET)
	DRILL HOLE W/ WINGS		
	STAKE		(SET)
	HUB		(SET)
	PIN W/ CAP IRON PIPE IRON PIN		(SET)
	CROSS CUT		(SET)
	DISK		
	STONE		
	REBAR		
	BASELINE	7+00	8+00
	CENTERLINE		
	EASEMENT		
	RIGHT-OF-WAY		
	PROPERTY BOUNDARY		
	ADJACENT PROPERTY BOUNDARY		
	RAILROAD TRACKS		
	STATE BOUNDARY		
	MUNICIPAL / COUNTY BOUNDARY		

ENVIRONMENTAL

ITEM	DESCRIPTION	EXISTING	PROPOSED
	BORING LOCATION	B-#	B-#
	MONITORING WELL LOCATION	MW-#	MW-#
	TEST PIT LOCATION	TP-#	TP-#
	FRESHWATER WETLAND FLAG	FW-#	
	FRESHWATER WETLAND LINE		
	FRESHWATER WETLAND BUFFER		
	EDGE OF WATER		
	STREAM CENTERLINE		

LANDSCAPING

ITEM	DESCRIPTION	EXISTING	PROPOSED
	DECIDUOUS TREE		SHADE ORNAMENTAL
	SHRUBS / BUSH		
	EVERGREENS		
	STUMP		
	WOODS / TREE LINE		
	WIRE FENCE		
	SPLIT RAIL FENCE		
	WOOD / VINYL FENCE		
	CHAIN-LINK FENCE		

GRADING

ITEM	DESCRIPTION	EXISTING	PROPOSED
	TOP OF BANK / DITCH	TB	
	BOTTOM OF BANK / DITCH	BB	
	CONTOUR (MAJOR)	5	5
	CONTOUR (MINOR)	3	3
	FLOW LINE / SWALE		
	TIME OF CONCENTRATION		
	SPOT GRADE	X 3.48	X 3.48
	ROADWAY GRADE	TC5.45 GL4.95	TC5.45 GL4.95
	DRAINAGE FLOW		

SITE & ROADWORK

ITEM	DESCRIPTION	EXISTING	PROPOSED
	EDGE OF PAVEMENT		
	CURB		
	PAVEMENT / CONC. / SIDEWALK	BITUMINOUS/ASPHALT, CONCRETE, BRICK/PAVERS, STONE	ASPHALT DRIVEWAY, CONCRETE, BRICK/PAVERS, STONE, MILLING, PULVERIZE, STABILIZE, OVERLAY
	LIMIT OF EXCAVATION		
	GUIDE RAIL		
	BOLLARD		
	MAILBOX		
	SIGNS		
	FLAG POLE		
	BENCH		
	PILE		
	DETECTABLE WARNING SURFACE		
	TYPICAL STRIPING		
	ADA STRIPING		
	TRAFFIC CONTROL BOX		
	TRAFFIC LIGHT		(ARM TO SCALE)
	DEPT. OF TRANSPORTATION MANHOLE		
	STATE HIGHWAY DEPARTMENT	MANHOLE BOX	
	RAILROAD CROSSING BEACON		
	CALL BOX		
	OIL FILL		
	UNDERGROUND STORAGE TANK LID	UST	
	RISER PIPE		
	RAISED PAVEMENT MARKER		

MISC.

ITEM	DESCRIPTION	EXISTING	PROPOSED
	BBQ GRILL		
	WATER FOUNTAIN		
	KIOSK		
	AIR CONDITIONER		
	PARKING METER		
	FIRE CONTROL VALVE		
	BARRICADE		

GENERAL

ITEM	DESCRIPTION	EXISTING	PROPOSED
	PHOTO LOCATION		#
	BENCHMARK LOCATION	BM X	
	TYPICAL SECTION ARROW		A
	MATCH LINE		
	TYPICAL NORTH ARROW	NORTH POINT TO BE USED ON STANDARD CONSTRUCTION SHEETS WHERE BEARINGS REFER TO STATE PLANE COORDINATE SYSTEM.	

ABBREVIATIONS

APR.	APRON	E.B., W.B., N.B., S.B.	EASTBOUND, WESTBOUND, NORTHBOUND, SOUTHBOUND	PC	POINT OF CURVATURE	S.H.D.	STATE HIGHWAY DEPARTMENT
BL	BASELINE	G	GUTTER	PI	POINT OF INFLECTION	SHLD.	SHOULDER
BM	BENCH MARK	GR	GRATE	PT	POINT OF TANGENCY	STY.	STORY
BIT.	BITUMINOUS	HW	HEADWALL	PK	PARKER KAYLON MASONRY NAIL	T.B.A.	TO BE ABANDONED
BLDG.	BUILDING	H.D.P.E.	HIGH DENSITY POLYETHYLENE PIPE	PROP.	PROPOSED	T.B.R.	TO BE REMOVED
CL	CENTERLINE	INV.	INVERT	P.V.C.	POLYVINYL CHLORIDE PIPE	TC	TOP OF CURB
C.I.P.	CAST IRON PIPE	IP	IRON PIN	PVC	POINT OF VERTICAL CURVATURE	TEL	TELEPHONE
CONC.	CONCRETE	J.B.	JUNCTION BOX	PVI	POINT OF VERTICAL INTERSECTION	TEMP.	TEMPORARY
C.M.P.	CORRUGATED METAL PIPE	L.S.T.	LANDSCAPE TIE	PVT	POINT OF VERTICAL TANGENCY	TYP.	TYPICAL
CULV.	CULVERT	L.O.M.	LIMIT OF MILLING	R	RADIUS	U.D.	UNDERDRAIN
D.C.	DEPRESSED CURB	L.O.P.	LIMIT OF PAVING	R.C.P.	REINFORCED CONCRETE PIPE	U.P.	UTILITY POLE
DH	DRILL HOLE	MB	MAILBOX	RMC	RIGID METALLIC OCNDUIT	VAR.	VARIES
DIA.	DIAMETER	MAX.	MAXIMUM	R.O.W.	RIGHT OF WAY	WM	WATER METER
DWY	DRIVEWAY	MIN.	MINIMUM	R.R.	RAILROAD		
D.I.P.	DUCTILE IRON PIPE	NO.	NUMBER	RTE.	ROUTE		
EL.	ELEVATION	N.T.S.	NOT TO SCALE	SAN.	SANITARY		
EX.	EXISTING	PERF.	PERFORATED	SWK.	SIDEWALK		

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Date

BOROUGH OF DUMONT

DESIGN DEVELOPMENT PHASE

NEW POLICE AND MUNICIPAL BUILDING

50 WASHINGTON AVE.
DUMONT, NJ 07628

PROJECT NO. 105-17-001

REV	DATE	DESCRIPTION
	1-04-19	ISSUED FOR BID
	3-4-21	ISSUED FOR PARKING
		LOT CONTRACT

RVE 1901
REMINGTON & VERNICK ENGINEERS
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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DRAWING TITLE: LEGEND

CHECKED BY: R.N. DRAWN BY: S.R.

DRAWING No. C-1

DWG. NO. OF

Richard G. Arango
DATE: 3-5-2021
RICHARD G. ARANGO
NJ PROFESSIONAL ENGINEER LIC. No. 38882

GENERAL UTILITY INSTALLATION NOTES

1. ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE FACT THAT THE APPROXIMATE LOCATION OF KNOWN UTILITY STRUCTURES AND FACILITIES THAT MAY BE ENCOUNTERED WITHIN AND ADJACENT TO THE LIMITS OF WORK ARE SHOWN ON THE PLANS. THE ACCURACY AND COMPLETENESS OF THIS INFORMATION IS NOT GUARANTEED BY THE ENGINEER. THE CONTRACTOR IS ADVISED TO VERIFY IN THE FIELD ALL THE FACTS CONCERNING THE UTILITY LOCATIONS AND OTHER CONSTRUCTION OBSTACLES PRIOR TO CONSTRUCTION. FURTHER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING PRIOR TO CONSTRUCTION OF ANY UTILITY CONFLICTS WHICH MAY AFFECT PROJECT DESIGN AND/OR SCOPE.
2. EXISTING STREET SURFACES AND OTHER SURFACES DISTURBED BY THE CONSTRUCTION OF FACILITIES FOR THIS PROJECT SHALL BE RESTORED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWNSHIP ENGINEER AND BERGEN COUNTY DEPARTMENT OF PUBLIC WORKS..
3. ALL UTILITY WORK IS WITHIN MUNICIPAL R.O.W. OR PROPERTY OWNED BY THE BOROUGH OF DUMONT. NO EASEMENTS SHALL BE GRANTED TO ANY UTILITY COMPANIES.
4. ALL ABANDONED ON-SITE UTILITIES SHALL BE COMPLETELY REMOVED AND DISPOSED OF WHETHER OR NOT INDICATED ON THE PLANS.
5. FINAL DESIGN OF TELEPHONE, ELECTRIC, CABLE AND GAS UTILITIES TO BE PROVIDED BY UTILITY COMPANIES. LOCATIONS SHOWN ARE FOR GENERAL HORIZONTAL ALIGNMENT ONLY.

SANITARY SEWER NOTES

1. ALL SANITARY SEWER MAINS SHALL BE AS SHOWN ON PLANS AND INSTALLED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NJDEP AND SHALL CONFORM TO THE STANDARDS OF THE BOROUGH OF DUMONT. 1
2. THE SANITARY SEWER SHALL BE SEPARATED FROM ALL WATER MAINS BY A MINIMUM OF TEN (10) FEET HORIZONTALLY AND EIGHTEEN (18) INCHES VERTICALLY WHENEVER A CROSSING MAY OCCUR. THE WATER MAIN SHOULD BE LOCATED ABOVE THE SANITARY SEWER BY EIGHTEEN (18) INCHES MINIMUM. WHERE 18 INCH VERTICAL CLEARANCE CANNOT BE OBTAINED THE SANITARY SEWER SHALL BE CONSTRUCTED OF CLASS 53 DUCTILE IRON PIPE CONFORMING TO ANSI 21.51 AND LINED IN ACCORDANCE WITH ANSI 21.4. JOINTS SHALL BE SEALED WITH GASKETS IN CONFORMANCE WITH ANSI A21.11. THE SEWER LINE SHALL BE PRESSURE TESTED AT 100 PSI PER AWWA C600. IN ADDITION, THE LOWER OF THE TWO PIPES SHALL BE ENCASED IN A CONCRETE ENVELOPE FOR A MINIMUM OF 10 FEET EACH WAY FROM THE CENTERLINE OF THE CROSSING.

WORK WITHIN THE MUNICIPAL R.O.W.

1. OFFICE OF THE BOROUGH ENGINEER IS TO BE NOTIFIED IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION OF ANY IMPROVEMENTS UNDER ITS JURISDICTION.
2. SUFFICIENT CONSTRUCTION WARNING SIGNS ARE TO BE PROVIDED AND MAINTAINED BY CONTRACTORS PERFORMING CONSTRUCTION WORK AS INDICATED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". SAID SIGNS ARE TO BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND APPROVED BY THE APPROPRIATE TOWN INSPECTION PERSONNEL.
3. THE CONTRACTOR SHALL PROVIDE SUCH TEMPORARY DRAINAGE, SOIL EROSION, AND DUST CONTROL MEASURES AS MAY BE DIRECTED BY THE BOROUGH ENGINEER OR OTHER AGENCIES OR DEPARTMENTS TO SATISFY ENVIRONMENTAL CONCERNS. 1
4. THE INSTALLATION OF UTILITIES MUST BE COORDINATED WITH BUILDING IMPROVEMENT TO ASSURE THE WELL-BEING OF LIFE AND PROPERTY DURING CONSTRUCTION. WATER SERVICE IS A PRIMARY NEED AND MUST BE SCHEDULED ACCORDINGLY.
5. IT IS NOT THE INTENT OF THESE PLANS TO PROVIDE REINFORCING STEEL AND CONCRETE DESIGNS FOR ANY PRE-CAST OR CAST-IN-PLACE CONCRETE STRUCTURES. OTHER THAN THE REINFORCING STEEL AND CONCRETE DESIGNS SPECIFICALLY NOTED ON THESE PLANS. ANY REINFORCING STEEL AND CONCRETE DESIGN MUST BE SUPPLIED BY THE CONTRACTOR AS PART OF THE SHOP DRAWINGS SUBMITTAL AND BE SIGNED & SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY.
6. ALL ELEVATIONS ARE IN DATUM N.G.V.D. 1988.
7. LOCATION OF EXISTING INLETS, CATCH BASINS, AND MANHOLES MUST BE FIELD VERIFIED BEFORE WORK MAY COMMENCE. ANY CONFLICTING INFORMATION FROM THAT SHOWN SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
8. TRENCH REINFORCEMENT SHALL BE INSTALLED AS REQUIRED BY THE BOROUGH ENGINEER AND OSHA.

CURB & SIDEWALK NOTES:

1. ALL CURBING AND SIDEWALK SHALL BE CONSTRUCTED OF AIR ENTRAINED 5 TO 7% CLASS B CONCRETE. (NJDOT SPECS)
2. A $\frac{1}{2}$" PREFORMED EXPANSION JOINT FILLER, BITUMINOUS TYPE, CONFORMING TO AASHTO SPECS M-33 IS TO BE INSTALLED BETWEEN THE CURBING AND CONCRETE SIDEWALK AND AT 10' MAX. SPACING (TRANSVERSE AND LONGITUDINAL) IN THE SIDEWALK, RECESSED $\frac{1}{4}$" IN FROM TOP OF SIDEWALK.
3. TRANSVERSE JOINTS $\frac{1}{2}$" WIDE SHALL BE INSTALLED IN THE CURBING 10' APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS FILLER OF AASHTO SPECS M-33 FLUSH WITH THE TOP AND FACE OF CURB.

WATER NOTES:

1. CONCRETE FOR VALVE SEATS AND THRUST BLOCKS SHALL HAVE A MINIMUM 28 DAYS STRENGTH OF 3000 PSI.
2. SELECT GRANULAR BACKFILL MATERIAL SHALL BE SOIL AGGREGATE TYPE I-6 (POROUS FILL, CLEAN SAND, GRAVEL OR STONE) OBTAINED FROM DRY SOURCES AND SHALL BE FREE FROM STUMPS, BRUSH, WEEDS, ROOTS, RUBBISH, WOOD AND OTHER MATERIAL THAT MAY DECAY. GRADATION SHALL CONFORM TO TABLE 901.2, FOR TYPE 9-6 IN ARTICLE 901.09 OF THE NJDOT STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN EIGHT (8) INCH LIFTS PER GEOTECHNICAL REPORT. THE CONTRACTOR SHALL REFRAIN FROM USING HEAVY VIBRATORY COMPACTION EQUIPMENT AROUND UTILITIES AND BUILDINGS. 1
3. SHEETING, SHORING AND BRACING SHALL BE CLOSED VERTICAL SHEETING. TONGUE AND GROOVE WHICH IS BRACED TO PREVENT THE CAVE-IN OF TRENCHES. ALL LABOR EQUIPEMENT, MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM INTO THE REQUIREMENTS OF UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). AND DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. MATERIALS FOR SHEETING SHALL BE TONGUE AND GROOVE WOODEN PLANKS AND TIMBER OR STEEL CONFORMING TO THE REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, TIMBER SHALL BE A MINIMUM OF 3" THICK.SHEETING SHALL BE LEFT IN PLACE SHORING AND BRACING SHALL BE REMOVED. CUT 3' BELOW FINAL GRADE.
4. BROKEN STONE FOUNDATION CUSHION SHALL BE PLACED IN THOSE AREAS WHERE THE BOROUGH ENGINEER, HAS DEEMED THE SOIL CONDITIONS INFERIOR, BROKEN STONE SHALL CONFORM TO THE ARTICLE 901.03 OF THE STANDARD SPECIFICATIONS AS CURRENTLY AMENDED. THE SIZE OF BROKEN STONE SHALL BE AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER FOR SIZE AREAS WHERE THE DIRECTOR, DEPARTMENT OF ENGINEERING, HAS NUMBER 2,4,5, OR 6 AS SHOWN IN TITLE 901.01 STANDARD SIZES OF COARSE AGGREGATES OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
5. MIRAFI FILTER WOVEN CLOTH (600 X) SHALL BE PLACED IN THOSE AREAS WHERE THE BOROUGH ENGINEER, HAS DEEMED THE SOIL CONDITIONS INFERIOR. 1

#	DESCRIPTION	UNITS	PLAN QUANTITY	IF & WHERE DIRECTED	BID QUANTITY
1	CLEARING SITE	UN	1	0	1
2	TRAFFIC FIRECTORS, POLICE	HOURLY	80	0	80
3	POLICE VEHICLES	DAILY	10	0	10
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK	TON	75	20	95
5	HOT MIX ASPHALT 16M64 BASE COURSE, 4" THICK	TON	143	40	183
6	DENSE GRADED AGGREGATE, 6" THICK	CY	100	0	100
7	SOIL AGGREGATE, I-5	CY	300	0	300
8	9" X 18" CONCRETE VERTICAL CURB	LF	130	0	130
9	INLET, TYPE B	UN	1	0	1
10	TRENCH DRAIN	LF	22	0	22
11	NO ITEM				
12	15" REINFORCED CONCRETE PIPE	UN	135	35	170
13	4" PVC PIPE	UN	17	0	17
14	TRAFFIC MARKING LINES, 4"	LF	288	72	360
15	TRAFFIC MARKING LINES, 12"	LF	0	12	12
16	TRAFFIC MARKING SYMBOLS	SF	50	0	50
17	MULCH SPREADING, 4" THICK	SY	70	0	70
18	SHRUB, FIRE POWER NANDINA	UN	5	0	5
19	TREE, SNOW GOOSE FLOWERING CHERRY	UN	1	0	1
20	GROUND COVERING PLANTS, JAPANESE SPRUGE	UN	858	0	858

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Richard Arango
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RICHARD G. ARANGO
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BOROUGH OF DUMONT

DESIGN DEVELOPMENT PHASE

NEW POLICE AND MUNICIPAL BUILDING

50 WASHINGTON AVE.
DUMONT, NJ 07628

PROJECT NO. 105-17-001

REV	DATE	DESCRIPTION
	1-04-19	ISSUED FOR BID
1	2-11-19	ADDENDUM #4
	3-4-21	ISSUED FOR PARKING
		LOT CONTRACT

DRAWING TITLE

GENERAL NOTES

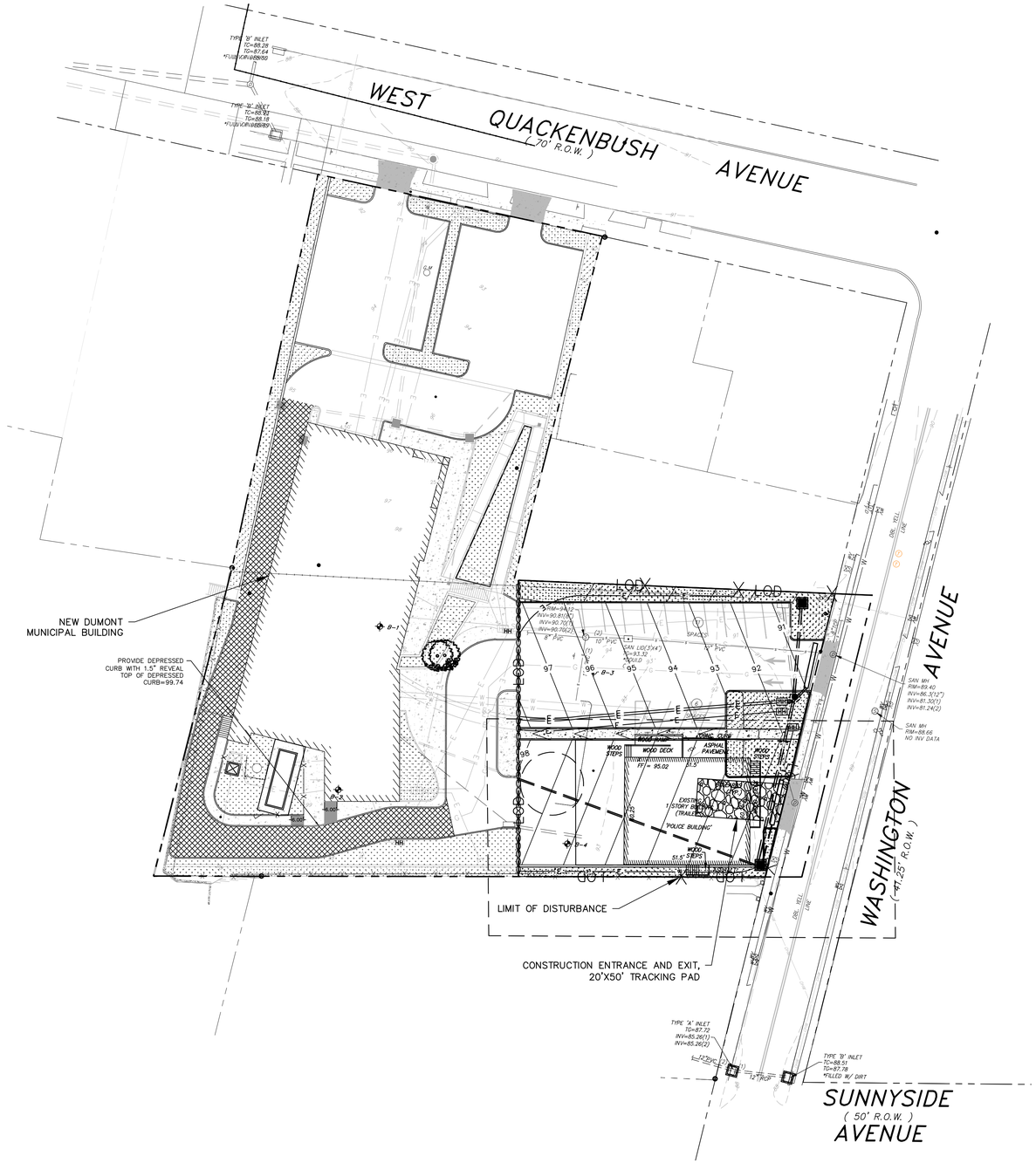
CHECKED BY: D.N. DRAWN BY: S.C.

DRAWING No.

C-2

DWG. NO. OF

S:\Dumont Borough\02107023 - New Municipal Building - 50 Washington\Engineering & Design\CAD & Drawings\REVISION #5 - OFF-SITE DRAINAGE\02106008 - Parking Lot Contract\02107023 - C-2 General Notes.dwg



N.J.S.P.C.S. NAD 1983

LEGEND:

- SILT FENCE
- HAY BALE
- LOD — LIMIT OF DISTURBANCE
- INLET PROTECTION

NOTES:

1. REMOVE ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AT THE COMPLETION OF ALL PHASE 3 CONSTRUCTION ACTIVITIES.
2. CONSTRUCTION ITEMS SHOWN FOR INFORMATION ONLY. SEE SITE AND UTILITY PLANS FOR TOTAL QUANTITIES TO BE CONSTRUCTED.
3. IN ALL CASES, INLET PROTECTION SHOULD NOT COMPLETELY CLOSE OFF THE INLET.
4. 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.
5. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARD THE INLET HAS BEEN STABILIZED.

GRAPHIC SCALE

30 0 15 30

(IN FEET)

1 inch = 30 ft.

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BOROUGH OF DUMONT

DESIGN DEVELOPMENT PHASE

NEW POLICE AND MUNICIPAL BUILDING

50 WASHINGTON AVE.
DUMONT, NJ 07628

PROJECT NO. 105-17-001

REV	DATE	DESCRIPTION
	1-04-19	ISSUED FOR BID
2	6-11-19	BULLETIN #1
	3-4-21	ISSUED FOR PARKING
		LOT CONTRACT

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DRAWING TITLE

SOIL EROSION AND SEDIMENT CONTROL PHASE 3

CHECKED BY: R.N. DRAWN BY: S.R.

DRAWING No.

C-8

DWG. NO. OF

Richard Arango
DATE: 3-5-2021
RICHARD G. ARANGO
NJ PROFESSIONAL ENGINEER LIC. No. 38882

S:\Dumont Borough\02107023 - New Municipal Building - 50 Washington\Engineering & Design\CAD & Drawings\$REVISION #3 - OFF-SITE DRAINAGE\0210G008 - Parking Lot Contract\02107023 - Dumont Municipal Building REV 2.dwg

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLANS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" 7th EDITION LAST REVISED JANUARY 2014. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.
3. SEEDING DATES: THE FOLLOWING SEEDING DATES ARE BEST RECOMMENDED TO ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPSCD: SPRING: 3/1–5/15 AND FALL: 8/15–10/1.
4. SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
5. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS AND PROTECTION SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
6. MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
7. ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
8. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX-(862) 333-4507 OR EMAIL-INFORMATION@HEPSCD.ORG
9. THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, NJ-DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AT 862-333-4505 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBIT THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.
10. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PUMPS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS.
11. ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED WITH TOPSOIL PRIOR TO RE-SEEDING, SODDING OR PLANTING. A DEPTH OF 5 INCHES (UNSETTLED) IS RECOMMENDED.
12. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.
13. A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 1/2-1" CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF 50 FEET AND MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
14. STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER AND APPROVED BY THE SOIL CONSERVATION DISTRICT.
15. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION
   A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
   B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
   C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER OF UNDERGROUND UTILITIES.
2. SEEDBED PREPARATION
   A. APPLY GROUND LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGREN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.
   B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.
   C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AS ABOVE.
   D. SOILS HIGH ON SULFIDES OR HAVING A pH OF 4 OR LESS REFER TO STANDARD FOR. FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS.
3. SEEDING
   A. SEE TEMPORARY SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
   B. APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED. SEED SHALL BE INCORPORATED INTO THE SOIL BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED SOIL.
   C. AFTER SEEDING, FIRMING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.
4. MULCHING
   MULCHING IS REQUIRED ON ALL SEEDING.
   A. MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.
   B. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
   C. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
      1. PEG AND TWINE- DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISSCROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
      2. MULCH NETTING- STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
      3. CRIMPER(MULCH ANCHORING TOOL)- A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
   D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

TEMPORARY SEEDING MIXTURE

THIS SEEDING MIXTURE IS COMPOSED OF A SINGLE SPECIES WHICH GERMINATES QUICKLY IN ORDER TO REDUCE SOIL EROSION UNTIL A PERMANENT VEGETATIVE COVER CAN BE COVER ESTABLISHED. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

COMMON NAME	BOTANICAL NAME
PERENNIAL RYE GRASS	LOLIUM PERENNE

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE ONE (1) POUND/1000 SQUARE FEET OR 100 POUNDS/ACRE.
RECOMMENDED SEEDING PERIODS ARE MARCH 1–MAY 15 AND AUGUST 15–OCTOBER 1. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.
C. TOPSOIL SHALL 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 TOPSOILING.
D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

2. SEEDBED PREPARATION
   A. APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGREN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.
   B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.
   C. SOILS HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A pH OF 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION.
3. SEEDING
   A. TYPE A-3 SEED MIX SHALL BE USED IS ALL AREAS OUTSIDE OF THE RAIN GARDEN AREA APPLICATION RATE SHALL CONFORM WITH THE NJDOT SPECIFICATIONS. THE RAIN GARDEN AREA SHALL BE SEEDED WITH "RAIN GARDEN GRASS MIX, ERNMX-180" AS PROVIDED BY ERNST SEEDS. APPLICATION RATE SHALL BE 20 LBS PER ACRE.
   B. APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDING, SHALL BE INCORPORATED INTO THE SOIL, 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 COURSE TEXTURED SOIL.
   C. AFTER SEEDING, FIRMING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.
4. MULCHING
   MULCHING IS REQUIRED ON ALL SEEDING.
   A. MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.
   B. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
   C. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
      1. PEG AND TWINE- DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
      2. MULCH NETTING- STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
      3. CRIMPER(MULCH ANCHORING TOOL)- A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
   D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
5. IRRIGATION
   A. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.
6. TOP DRESSING *
   A. SPRING SEEDING WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.
   B. FALL SEEDING WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1.
   C. MIXTURES DOMINATED BY WEEPING LOVEGRASS OR LEGUMES MAY NOT NEED TOPDRESSING.
   * IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THIS FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY.

PERMANENT STABILIZATION WITH SOD

METHODS AND MATERIALS

A. CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD. SPECIFY "CERTIFIED SOD," OR OTHER HIGH QUALITY CULTIVATED SOD.
B. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COURSE WEEDY GRASSES.
C. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING (EXCLUDES TOP GROWTH).
D. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE.
E. FOR DROUGHTY SITES, A SOD OF TURF-TYPE TALL FESCUE AND BLUEGRASS IS PREFERRED OVER STRAIGHT BLUEGRASS SOD.
F. ONLY MOIST, FRESH, UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS OR LESS DURING SUMMER MONTHS.

1. SITE PREPARATION
   A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR LIMING, FERTILIZING, AND SOIL PREPARATION. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING..
   B. INSTALL NEEDED EROSION CONTROL PRACTICES AND FACILITIES, SUCH AS DIVERSION DITCHES, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS AND WATERWAYS.
2. SOIL PREPARATION
   A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET USING 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING IDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. TABLE 6-1 IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION RATES.

TABLE 6-1

LIMESTONE* APPLICATION RATE BY SOIL TEXTURE		
SOIL TEXTURE	TONS/ACRES	LBS./1000 SQ. FT.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

* PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.

   B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED.
   C. REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO TOPSOIL CONTACT AND REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
   D. INSPECT SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED IN ACCORDANCE WITH THE ABOVE.

3. SOD PLACEMENT
   A. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
   B. PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.
   C. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS S SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF ROOTS.
   D. ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES BIODEGRADABLE PLASTIC SPIKES, OR SPLIT SHINGLES (8 TO 10 INCES LONG BY 3/4 INCH WIDE).
   E. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.
   F. IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 1 INCH. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.
4. TOPDRESSING – SINCE SLOW RELEASE NITORGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, "SEEDBED PREPARATION" IN THIS STANDARD, A FOLLOW-UP TOPDRESSING IS NOT MANDATORY, EXCEPT WHERE GROSS NITROGEN DEFICIENCY EXISTS TO THE EXTENT THAT TURF FAILURE MAY DEVELOP, TOPDRESSING SHALL THEN BE APPLIED. TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQURE FEET.

TOP SOILING

TOPSOIL SHOULD BE USED WHERE SOILS ARE: SANDS, GRAVELY SOILS, CLAYS, SILTY CLAYS, VERY SHALLOW, OR WHERE THEY ARE EXTREMELY ACID (LESS THAN pH4.0) OR SALTY (COND-ACTIVITY GREATER THAN 1.0 MILLIMHOS PER CENTIMETER); OR WHERE TOPSOIL IS AVAILABLE ON SITE AND ASSURANCE OF IMPROVED VEGETATIVE GROWTH IS DESIRED.

1. MATERIALS
   A. TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A pH RANGE OF 5.0-7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER). TOPSOIL HAULED IN FROM OFF SITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.
2. STRIPPING AND STOCKPILING
   A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.
   B. STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
   C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL pH TO 6.5. IN LIEU OF SOIL TESTS, SEE LIME RATE GUIDE IN SEEDBED PREPARATION FOR PERMANENT VEGETATIVE COVER.
   D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
   E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
   F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH TEMPORARY SEEDING STANDARDS PREVIOUSLY DESCRIBED HEREIN.
3. SITE PREPARATION
   A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.
   B. SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT AND LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL pH TO 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.
   C. IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, THE SURFACE SHOULD BE SCARIFIED TO PROVIDE A GOOD BOND WITH THE TOPSOIL.
   D. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS.
4. APPLYING TOPSOIL
   A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY.
   B. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS RECOMMENDED. SOILS WITH A pH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A pH OF 5.0 OR MORE.

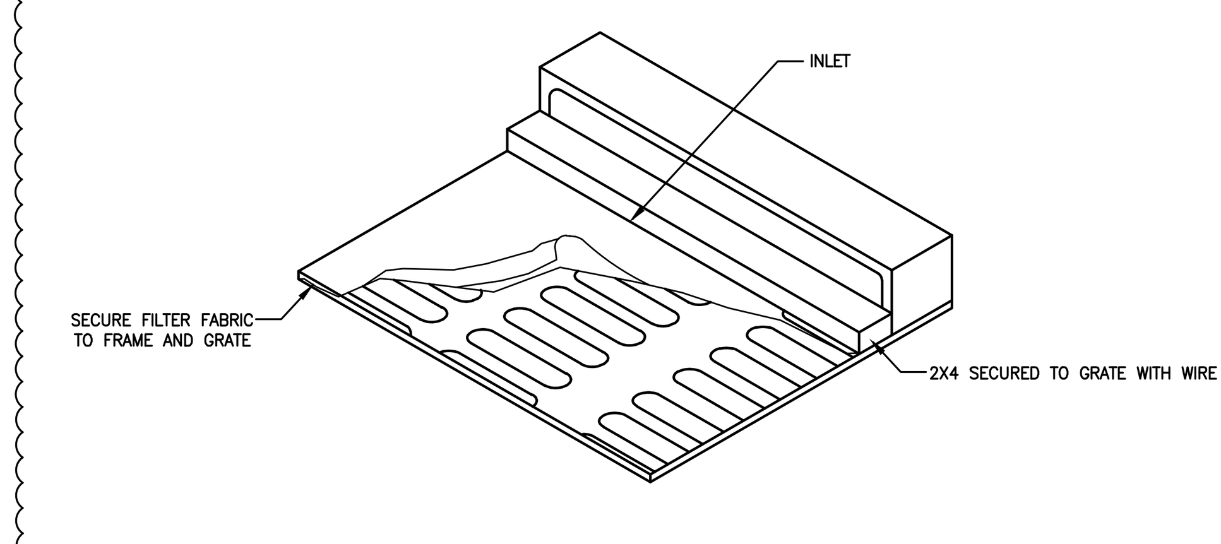
SPECIAL NOTES

1. TEMPORARY STABILIZATION – SOILS EXPOSED FOR PERIODS OF TWO TO SIX MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT SEEDING WITHIN 60 DAYS SHALL RECEIVE TEMPORARY STABILIZATION ACCORDING TO THE TEMPORARY VEGETATIVE COVER SPECIFICATIONS.
2. PERMANENT STABILIZATION – ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED SHOULD BE SEEDED WITHIN 10 DAYS OF FINAL GRADING, ACCORDING TO THE PERMANENT SEEDING SPECIFICATIONS.

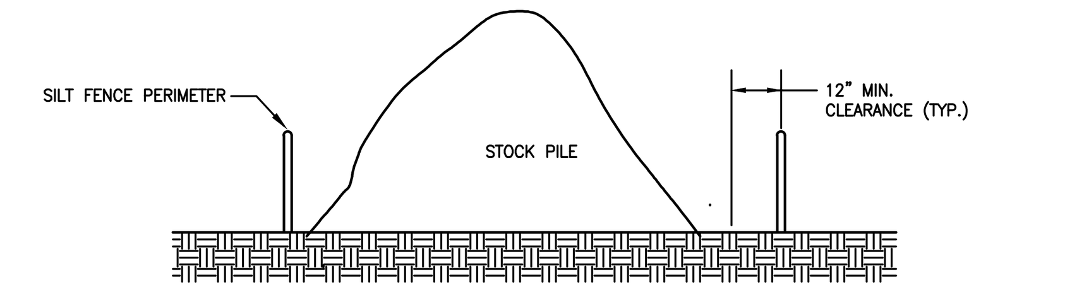
TOTAL AREA OF DISTURBANCE: 1.5 ACRES

SEQUENCE OF CONSTRUCTION

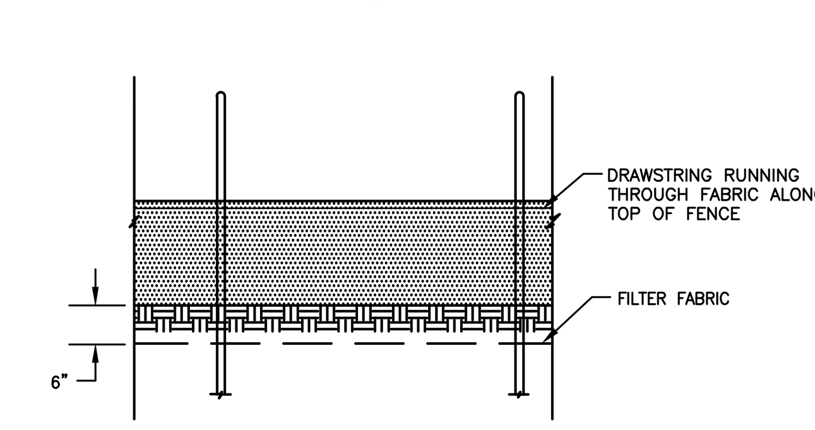
1. INSTALL ALL PHASE 1 SOIL EROSION AND SEDIMENT CONTROL DEVICES
2. TRENCH AND INSTALL ALL UTILITIES DURING PHASE 1 TO LIMIT OF DISTURBANCE.
3. INSTALL ALL PHASE 2 SOIL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE PHASE 1 SOIL EROSION AND SEDIMENT DEVICES AS NEEDED
4. EXCAVATE AS NECESSARY TO OBTAIN ROUGH FINISHED PHASE 2 GRADES
5. EXCAVATE FOR BUILDING FOUNDATIONS
6. CONSTRUCT NEW BUILDING
7. INSTALL NEW DRAINAGE SYSTEM AND REMAINING UTILITIES.
8. FINAL GRADE AND PAVE PHASE 2 PORTION OF SITE
9. INSTALL ALL PHASE 3 SOIL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE PHASE 2 SOIL EROSION AND SEDIMENT CONTROL DEVICES AS NEEDED
10. REMOVE EXISTING POLICE TRAILERS AND PAVEMENT
11. CONSTRUCTION OF REMAINING PORTION OF SITE (PHASE 3)
12. REMOVE ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES



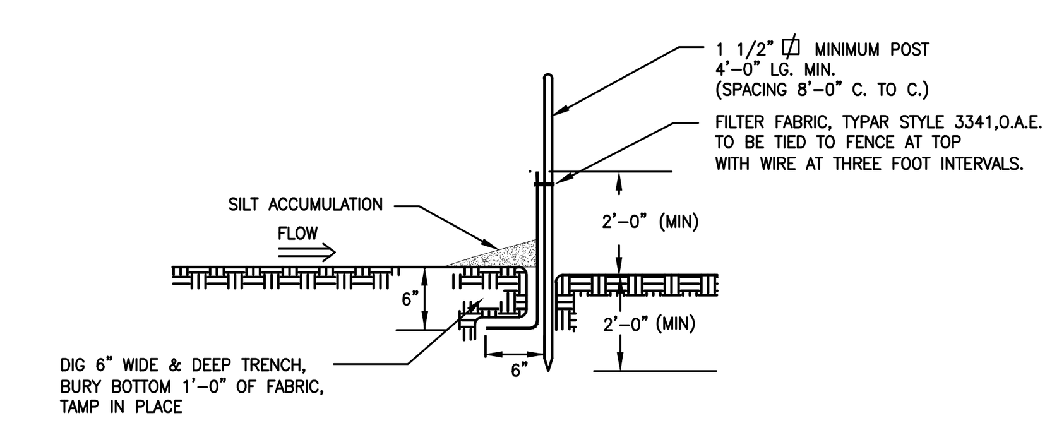
INLET SEDIMENT PROTECTION STRUCTURE
N.T.S.



SOIL STOCKPILE DETAIL
N.T.S.

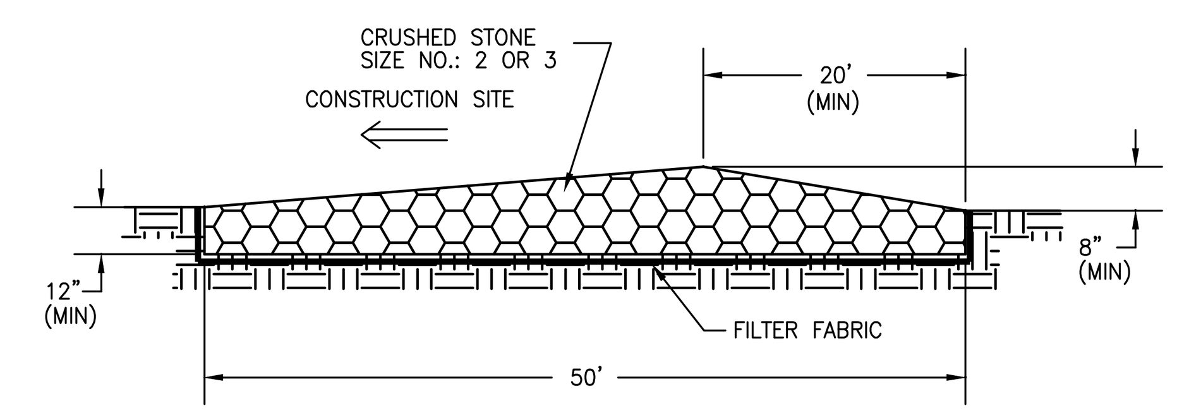


ELEVATION

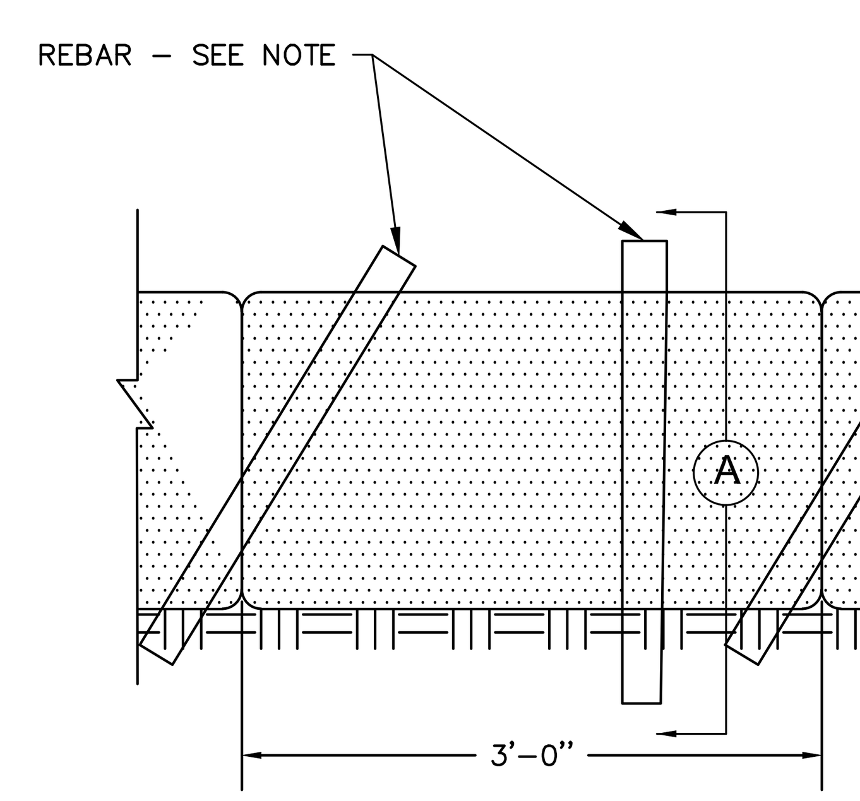


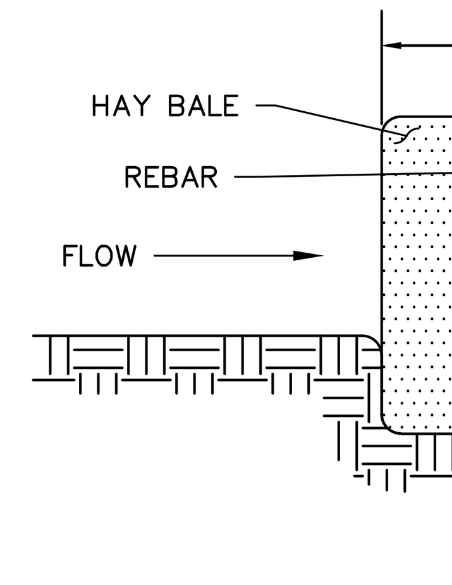
SECTION

SILT FENCE DETAIL
N.T.S.



STABILIZED CONSTRUCTION ENTRANCE
(SEE PLAN FOR WIDTH)
N.T.S.





SECTION A

NOTE: BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO REBARS DRIVEN THROUGH EACH BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.

HAY BALE DETAIL
N.T.S.

3 University Plaza Drive
Suite 600
Hackensack, NJ 07601
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John P. Capazzi, AIA

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ARC101901	DC
0401015836	VA

Date

BOROUGH OF DUMONT
DESIGN DEVELOPMENT PHASE
NEW POLICE AND MUNICIPAL BUILDING
50 WASHINGTON AVE.
DUMONT, NJ 07628
PROJECT NO. 105-17-001

RVE 1901
REMINGTON & VERNICK ENGINEERS
ONE HARMON PLAZA, SUITE 210
SECAUCUS, NJ 07094
(201) 624-2137, FAX (201) 624-2136
WEB SITE ADDRESS : WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DATE: 3-5-2021
RICHARD G. ARANGO
NJ PROFESSIONAL ENGINEER LIC. No. 38882

REV	DATE	DESCRIPTION
	1-04-19	ISSUED FOR BID
1	2-11-19	ADDENDUM #4
2	6-11-19	BULLETIN #1
	3-4-21	ISSUED FOR PARKING
		LOT CONTRACT

DRAWING TITLE
SOIL EROSION AND SEDIMENT CONTROL DETAIL
CHECKED BY: R.N. DRAWN BY: S.R.
DRAWING No.
C-9
DWG. NO. OF

S:\Dumont Borough\0210T023 - New Municipal Building - 50 Washington\Engineering & Design\CAD & Drawings\$REVISION #5 - OFF-SITE DRAINAGE\0210G008 - Parking Lot Contract\0210T023 - Dumont Municipal Building REV 2.dwg

UP(NO #)
ASPHALT PAVEMENT
CONC. STEPS
AC
L.S.A.
PAVER WALL
B-3
EXISTING SANITARY SERVICE TO BE CAPPED AT DEPTH OF EXISTING LINE. PAYMENT TO BE INCLUDED IN "CLEARING SITE."
CONC.
WOOD DECK, RAMP, AND STEPS TO BE REMOVED AND DISPOSED OF BY OTHERS
CONCRETE
CONC. CURB
WOOD STEPS
WOOD RAMP
WOOD DECK
FF = 93.77
FF = 95.02
51.5'
ASPHALT PAVEMENT
CONC. CURB
BRICK WALL SIGN & CLOCK
PAVER BLOCK WALL
11 SPACES
6 SPACES
UP(NO #)
EDGE OF PAVEMENT
PAVER BLOCK WALL
L.S.A.
6" TREE
DEP. CURB
N.J.S.P.&S. MD 1968.2
AVENUE
EXISTING TEMPORARY UTILITY POLE TO BE REMOVED BY CONTRACTOR. PAYMENT FOR WORK SHALL BE INCLUDED IN "CLEARING SITE."
METER PANEL, DISCONNECT BREAKER PANEL, AND EMERGENCY GENERATOR TO BE REMOVED BY OWNER.
EXISTING WATER SERVICE TO BE REMOVED OUTSIDE LIMITS OF PAVING OR AS DIRECTED BY ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDING IN "CLEARING SITE."
(TITLE LINE)
WK
CONC. WALK
UP(NO#)
BOLLARDS (TYP.)
WOOD DECK
ASPHALT PAVEMENT
DEP. CURB
WOOD STEPS
L.S.A.
CONC. WALK
WOOD DECK, STEPS, AND WOOD FENCE TO BE REMOVED AND DISPOSED OF BY OTHERS
EXISTING 1 STORY BUILDING (TRAILERS)
'POLICE BUILDING'
60.25'
60.25'
ALL EXISTING ASPHALT PAVEMENT UNDER TRAILERS TO BE REMOVED. PAYMENT FOR THIS WORK IS COVERED UNDER "CLEARING SITE."
WASHINGTON
(-41.25', R.O.W.)
ASPHALT PAVEMENT
B-4
CONC. WALL
L.S.A.
AC
3.5' SQUARE LID
WOOD 51.5' STEPS
ASPHALT
PAVER BLOCK WALL
L.S.A.
CONCRETE STEPS 4' HIGH C.L.F.
CONCRETE WALL
6' HIGH BLACK CHAIN LINK FENCE
EXISTING POLICE TRAILERS TO BE REMOVED BY OTHERS AND FOOTINGS
WOOD STEPS TO BE REMOVED AND DISPOSED OF BY OTHERS
CONC. WALK
DBL. YELL. LINE
WK
PAVERS BETWEEN CURB LINE & SIDEWALK (TYP.)
CONC. WALK
CONC. CURB
WK
PAVERS BETWEEN CURB LINE & SIDEWALK (TYP.)
UP(NO#)
TYPE 'A' INLET
TG=87.72
INV=85.26(1)
INV=85.26(2)
CONC. APRON
DEPRESSED CURB
CONC. CURB
CONC. WALK
TYPE 'B' INLET
TC=88.51
TG=87.78
F-12"PVC
REBAR

GRAPHIC SCALE
10 0 5 10
(IN FEET)
1 inch = 10 ft.

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		LOT CONTRACT

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DRAWING TITLE
REMOVAL PLAN

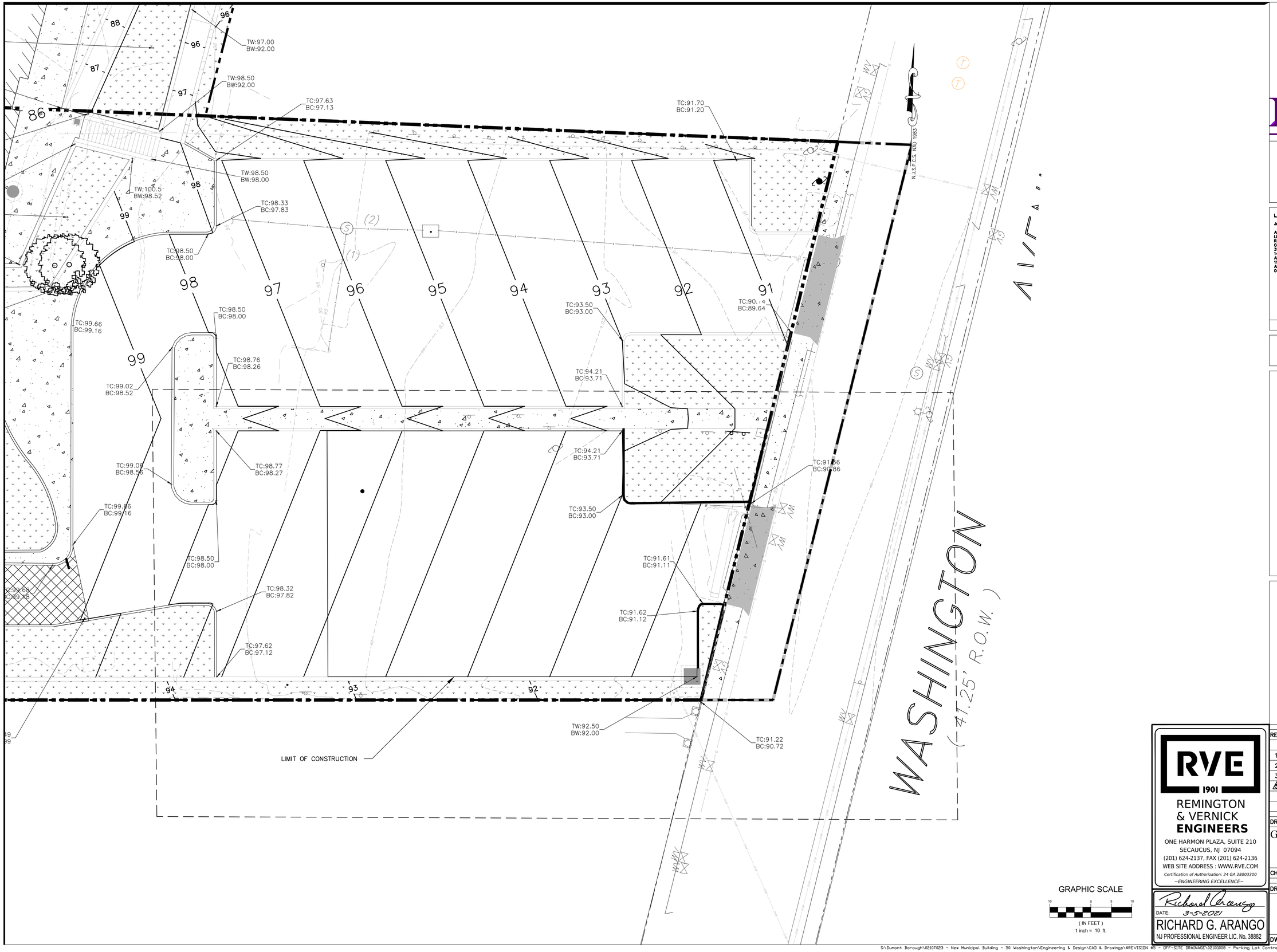
CHECKED BY: D.N. | DRAWN BY: S.C.

Richard Arango
DATE: 3-5-2021
RICHARD G. ARANGO
NJ PROFESSIONAL ENGINEER LIC. No. 38882

DRAWING No.
C-10

DWG. NO. | OF

S:\Dumont Borough\0210T023 - New Municipal Building - 50 Washington\Engineering & Design\CAD & Drawings\#REVISION #5 - OFF-SITE DRAINAGE\0210G008 - Parking Lot Contract\0210T023 - Dumont Municipal Building REV 2.dwg



GRAPHIC SCALE

10 0 5 10

(IN FEET)

1 inch = 10 ft.

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3	6-11-19	BULLETIN #1
4	3-30-20	GRADING AND DRAINAGE
	3-4-21	ISSUED FOR PARKING
		LOT CONTRACT

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DRAWING TITLE

GRADING PLAN

CHECKED BY: D.N. DRAWN BY: S.C.

DRAWING No.

C-11

DWG. NO. OF

Richard Arango
DATE: 3-5-2021
RICHARD G. ARANGO
NJ PROFESSIONAL ENGINEER LIC. No. 38882

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SEE LANDSCAPING PLAN FOR PROPOSED LANDSCAPING

70 SY (17)
5 UN (18)
1 UN (19)
858 UN (20)

75 TON (4)
143 TON (5)
100 CY (6)
300 CY (7)

EXISTING ASPHALT TO BE EXCAVATED. ITEM TO BE PAID UNDER "CLEARING SITE".

LIMIT OF ASPHALT REPLACEMENT TO BE SAWCUT AND TACKED TO MEET EXISTING PAVEMENT CONDITIONS

8" SCH40 PVC S=4.0%

15" RCP S=5.5%

65 LF (8)

TRENCH DRAIN
GR=91.50

50 SF (16)

12 LF (15)

12" RCP
S=1.0%

50 LF (12)

4" PVC
S=2.0%

MH-2
RIM=91.58
INV IN=90.18(4")
INV IN=86.65(12")
INV OUT=86.55

STORMCEPTOR
RIM= 91.40
INV IN=87.32
INV IN=86.83 (12")
INV OUT= 85.83 (12")

2'X2' STORM STRUCTURE
RIM= 88.90
INV IN=85.73 (12")
INV OUT=85.65 (15")

STORMCEPTOR TANK TO BE EMPTIED PRIOR INSTALLATION OF NEW 15" RCP. STORMCEPTER WALL TO BE CORE DRILLED TO MAKE NEW CONNECTION WITH KOR-N-SEAL BOOT. COST TO BE INCLUDED WITH UNIT PRICE OF 15" RCP.

10 22 LF

13 17 LF

8 45 LF

9 1 UN

I-10
GR=97.90
INV IN=94.76 (8")
INV OUT=94.66 (15")

288 LF
18' (TYP.) (14)

85 LF (12)

I-2
GR=91.90
INV IN=90.72 (4")
INV IN=88.30 (15")
INV OUT=87.33 (12")

15" RCP TO BE CONNECTED TO PREVIOUSLY INSTALLED STORM LINE STUB

TYPE 'A' INLET
TG=87.72
INV=85.26(1)
INV=85.26(2)

TYPE 'B' INLET

WASHINGTON AVENUE
(~41.25' R.O.W.)

N.J.S.P.C.S. NAD 1983

GRAPHIC SCALE
10 0 5 10
(IN FEET)
1 inch = 10 ft.

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		LOT CONTRACT

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DRAWING TITLE
DRAINAGE PLAN

CHECKED BY: D.N. DRAWN BY: S.C.

Richard Arango
DATE: 3-5-2021
RICHARD G. ARANGO
NJ PROFESSIONAL ENGINEER LIC. No. 38882

DRAWING No.
C-12

DWG. NO. OF

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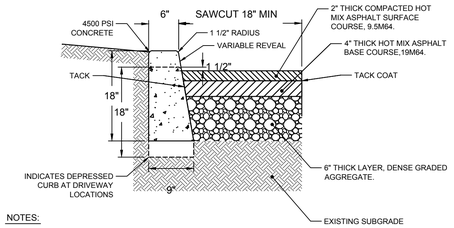
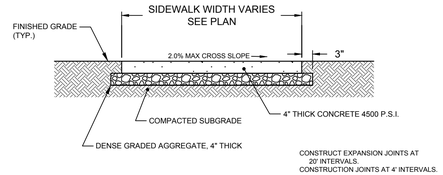


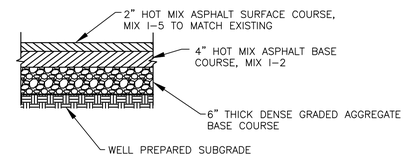
NOTES:

1. THE PROPOSED CURB SHALL BE TACKED & BUTTED TO THE PROPOSED PAVEMENTS.
2. EXPANSION JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 10' APART & FILLED WITH CELLULAR COMPRESSION MATERIAL AS SPECIFIED & RECESSED 1/4" FROM FACE AND TOP OF CURB. EXPANSION AND CONSTRUCTION JOINTS ARE TO BE INCLUDED IN THE PRICE BID FOR CURB. CONSTRUCTION JOINT SHALL BE CUT MID-POINT BETWEEN EXP. JOINTS.
3. DISTURBED AREAS WITHIN PARK STRIP TO BE RE-STORED WITH 4" THICK TOPSOIL, FERTILIZER, SEED, BORROW TOPSOIL, STRAW MULCHED AND SLOPED TOWARD THE ROAD TO PROVIDE A 2% MINIMUM GRADE OR BRICK PAVERS AS INDICATED ON PLANS.
4. THE SIDEWALK SHALL BE SLOPED TOWARD THE CURB AT A 2% MAXIMUM GRADE.
5. TACK IS TO BE INSTALLED ON CURB FACE FOR THE PAVEMENT THICKNESS.

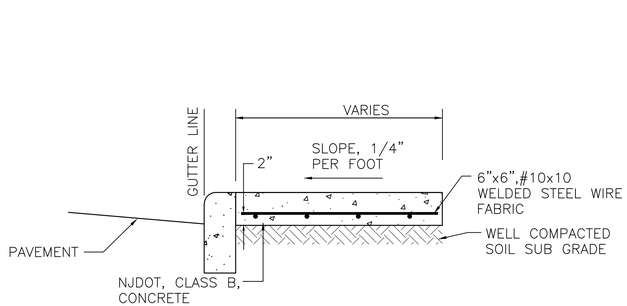
9" X 18" CONCRETE VERTICAL CURB DETAIL
N.T.S.



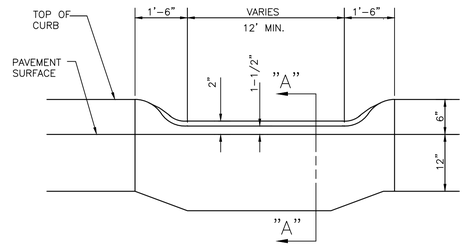
TYPICAL CONCRETE SIDEWALK DETAIL
N.T.S.



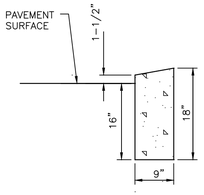
PAVEMENT RESTORATION DETAIL
NTS



CONCRETE SIDEWALK, REINFORCED, 6" THICK DETAIL
N.T.S.

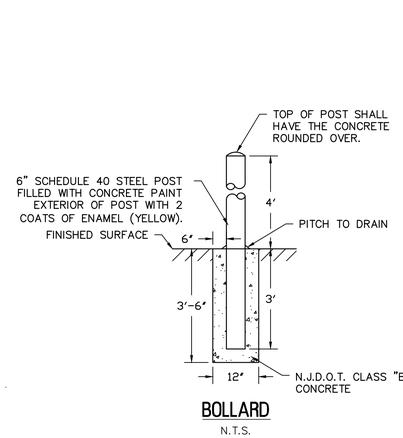


ELEVATION

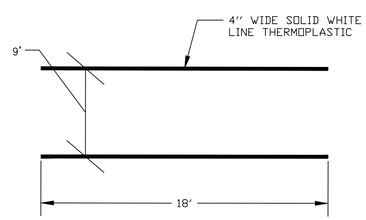


SECTION "A-A"

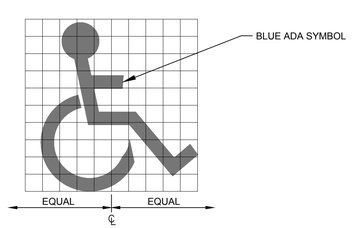
DEPRESSED CURB DETAIL
N.T.S.



BOLLARD
N.T.S.

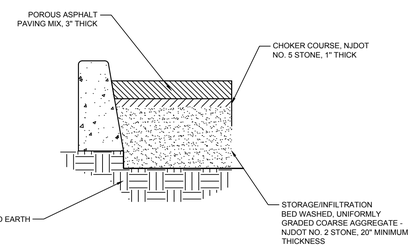


PARKING SPACE DETAIL
N.T.S.



GRID FOR LAYOUT PURPOSES ONLY
ONE SQUARE EQUALS 6"x 6"

ADA SYMBOL DETAIL
N.T.S.



POROUS PAVEMENT DETAIL
N.T.S.

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	6-12-19	ISSUED CONFORMED DWG
3	6-11-19	BULLETIN #1
	3-4-21	ISSUED FOR PARKING
		LOT CONTRACT

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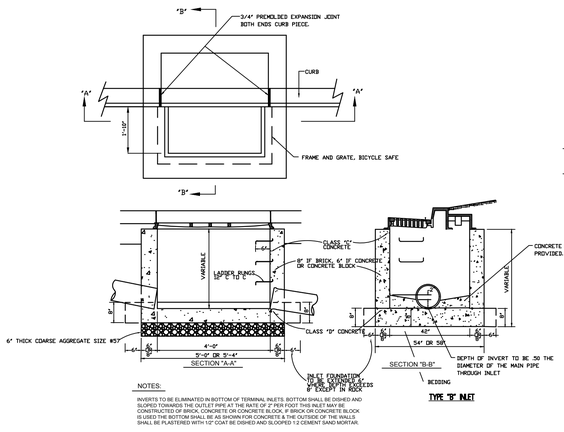
DRAWING TITLE
DETAIL SHEET 1

CHECKED BY: D.N. DRAWN BY: S.C.

DRAWING No.
C-15

DATE: 3-5-2021
RICHARD G. ARANGO
NJ PROFESSIONAL ENGINEER LIC. No. 38882

DWG. NO. OF

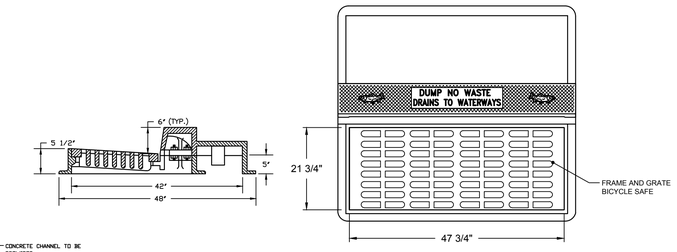


NOTES:

INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLETS. BOTTOM SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT THE RATE OF 2" PER FOOT THIS INLET MAY BE CONSTRUCTED OF BRICK, CONCRETE OR CONCRETE BLOCK. IF BRICK OR CONCRETE BLOCK IS USED THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE & THE OUTSIDE OF THE WALLS SHALL BE PLASTERED WITH 1/2" COAT BE DISHED AND SLOPED 1-2 CEMENT SAND MORTAR.

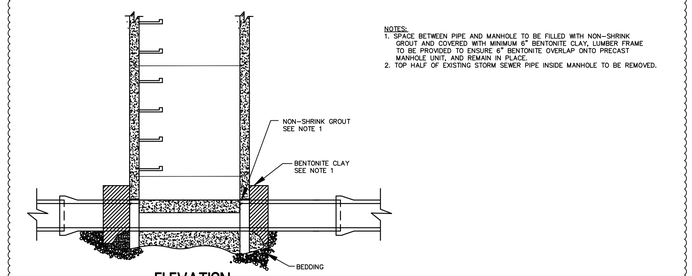
TYPE "B" INLET DETAIL

N.T.S.



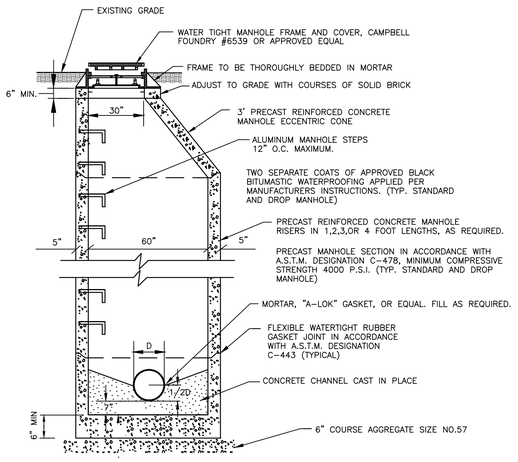
TYPE "B" INLET – FRAME AND GRATE DETAILS

N.T.S.



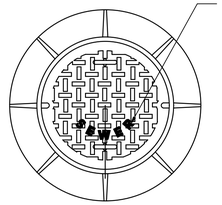
MANHOLE INSTALLATION OVER EXISTING PIPE (DOGHOUSE MANHOLE)

N.T.S.



6' DIA. MANHOLE

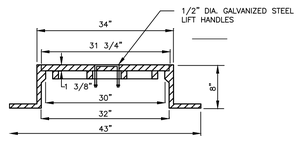
1. ALL MANHOLES SHALL BE CONSTRUCTED WATERTIGHT.



PLAN

NOTES:

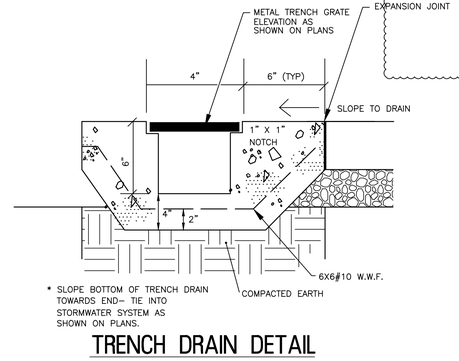
1. STANDARD MANHOLE FRAMES & COVERS SHALL BE USED ON ALL MANHOLES NOT LOCATED WITHIN EASEMENTS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. STANDARD MANHOLE FRAME & COVER SHALL BE BRIDGESTATE PATTERN #1012B, OR APPROVED EQUAL, WITH NON-PENETRATING PICK HOLES & DROP LIFT HANDLES.
3. "FLOW-SEAL" MANHOLE COVERS SHALL BE USED ON MANHOLES LOCATED WITHIN EASEMENTS, IN UNPAVED AREAS, & OUTSIDE OF THE CENTERLINE OF PAVED ROADS.
4. ALL MANHOLE FRAME & COVERS SHALL BE MADE IN THE U.S.A.



SECTION

STANDARD MANHOLE FRAME AND COVER DETAIL

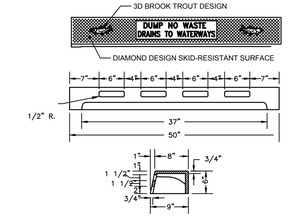
N.T.S.



* SLOPE BOTTOM OF TRENCH DRAIN TOWARDS END- TIE INTO STORMWATER SYSTEM AS SHOWN ON PLANS.

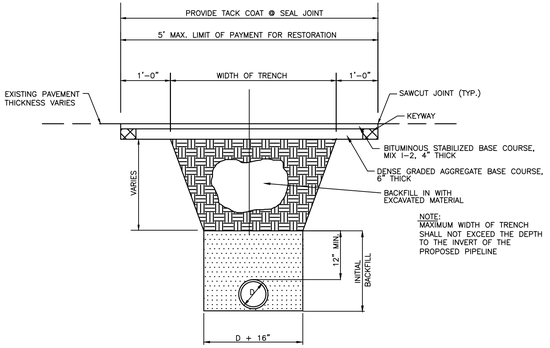
TRENCH DRAIN DETAIL

NTS



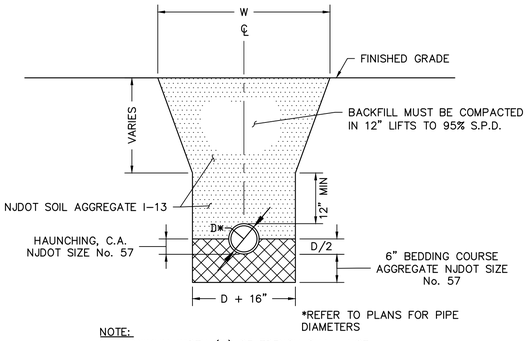
"N-ECO" CURB PIECE DETAIL

N.T.S.



ROADWAY TRENCH DETAIL FOR D.I.P. & R.C.P.

N.T.S.



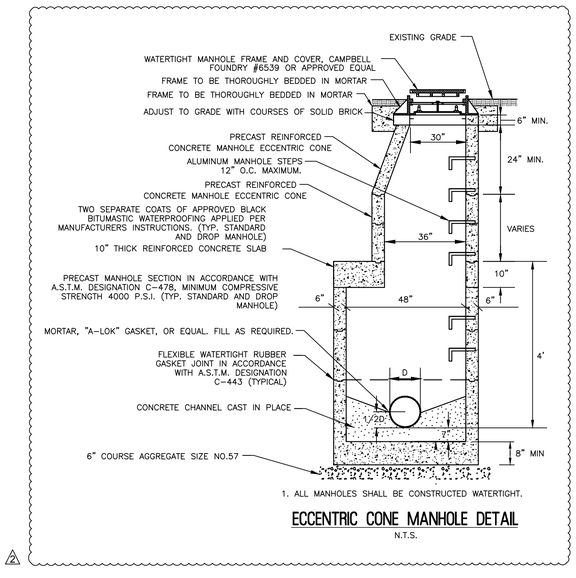
*REFER TO PLANS FOR PIPE DIAMETERS

NOTE:

1. MAXIMUM WIDTH (W) OF TRENCH SHALL NOT EXCEED THE DEPTH TO THE INVERT OF THE PROPOSED PIPELINE.
2. PROVIDE SHEETING OR SHORING AS REQUIRED
3. PROVIDE DEWATERING COMPLIANT WITH LOCAL, COUNTY AND STATE CONSERVATION STANDARDS.

TRENCH DETAIL FOR P.V.C. PIPE

N.T.S.



1. ALL MANHOLES SHALL BE CONSTRUCTED WATERTIGHT.

ECCENTRIC CONE MANHOLE DETAIL

N.T.S.

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031048-1	NY
31587	MA
14487	MD
AR93286	FL
11338	CT
ARC101901	DC
0401015836	VA

Date

BOROUGH OF DUMONT

DESIGN DEVELOPMENT PHASE

NEW POLICE AND MUNICIPAL BUILDING

50 WASHINGTON AVE.
DUMONT, NJ 07628

PROJECT NO. 105-17-001

RVE 1901
REMINGTON & VERNICK ENGINEERS
ONE HARMON PLAZA, SUITE 210
SECAUCUS, NJ 07094
(201) 624-2137, FAX (201) 624-2136
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Certification of Authorization: 24 GA 28003300
–ENGINEERING EXCELLENCE–

Richard Arango
DATE: 3-5-2021
RICHARD G. ARANGO
NJ PROFESSIONAL ENGINEER LIC. No. 38882

REV	DATE	DESCRIPTION
	1-04-19	ISSUED FOR BID
1	1-18-19	ADDENDUM #1
2	2-11-19	ADDENDUM #4
	3-4-21	ISSUED FOR PARKING
		LOT CONTRACT

DRAWING TITLE

DETAIL SHEET 2

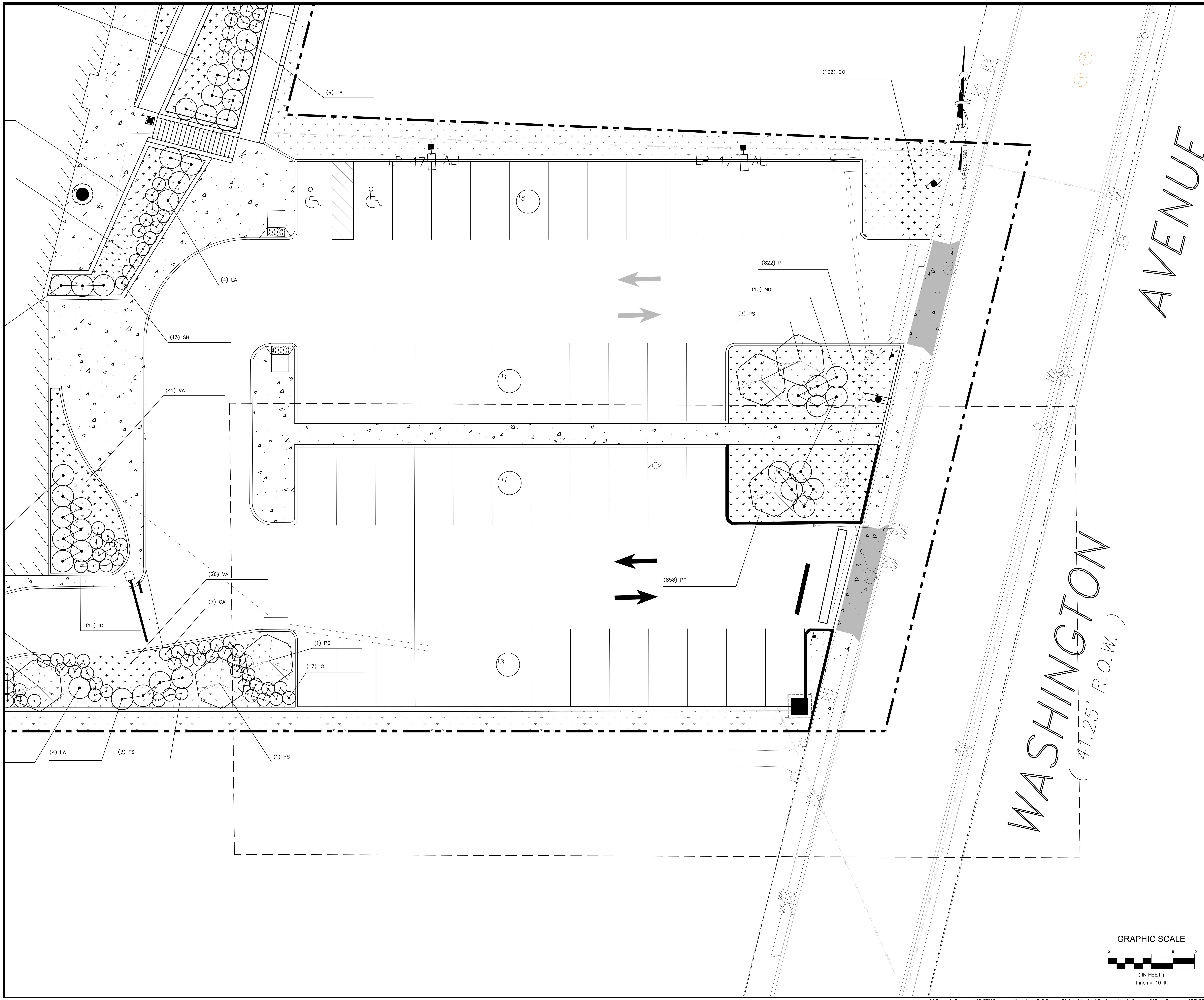
CHECKED BY: D.N. DRAWN BY: S.C.

DRAWING No.

C-16

DWG. NO. OF

S:\Dumont Borough\DP10T0P3 - New Municipal Building - 50 Washington\Engineering & Design\CAD & Drawings\$REVISION #5 - INFF-SITE DRAINAGE\DP10D00R - Parking Lot Contract\DP10T0P3 - C-15-17 Details.dwg



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NJ PROFESSIONAL ENGINEER LIC. No. 38882

DRAWING TITLE
LANDSCAPE PLAN

CHECKED BY: R.N. DRAWN BY: S.R.

DRAWING No.
LL-1

DWG. NO. OF

S:\Dumont Borough\0210T023 - New Municipal Building - 50 Washington\Engineering & Design\CAD & Drawings\#REVISION #5 - OFF-SITE DRAINAGE\0210G008 - Parking Lot Contract\0210T023 - Dumont Municipal Building REV 2.dwg

PLANTING NOTES:

1. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF QUANTITIES, SIZES, AND OTHER REQUIREMENTS IS SHOWN ON THE PLANT LIST. IN THE EVENT THAT DISCREPANCIES OCCUR BETWEEN THE QUANTITIES OF PLANTS INDICATED IN THE PLANT LIST AND THOSE INDICATED ON THE PLAN, THE PLANT QUANTITIES INDICATED ON THE PLAN SHALL GOVERN.

2. NO SUBSTITUTIONS SHALL BE ACCEPTED, EXCEPT WITH WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT OR HIS AGENT.

3. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, SUNSCALD INJURIES, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL OTHER FORMS OF INFECTIONS. ALL PLANT MATERIAL INSTALLED BETWEEN OCTOBER 15 AND MARCH 15 SHALL BE THOROUGHLY WETTED WITH AN ANTI-TRANSPIRANT UPON DELIVERY OF THE MATERIAL TO THE SITE.

4. QUALITY AND SIZE OF PLANT, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1) AS PUBLISHED BY AMERICANHORT. THE TRANSPLANTING AND PLANTING OF TREES AND SHRUBS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "ANSI A300 PART 6: TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE-STANDARD PRACTICES (TRANSPLANTING)."

5. ALL PLANTS SHALL BE PACKED, TRANSPORTED AND HANDLED WITH UTMOST CARE TO INSURE ADEQUATE PROTECTION AGAINST INJURY AND DEHYDRATION. EACH SHIPMENT SHALL BE CERTIFIED TO BE FREE FROM DISEASES AND INFESTATION. ANY INSPECTION CERTIFICATES REQUIRED BY LAW TO THIS EFFECT SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER OF STOCK, AND ON ARRIVAL, THE CERTIFICATE SHALL BE FILED WITH THE LANDSCAPE ARCHITECT.

6. NO PLANT MATERIAL SHALL BE PLANTED BY THE CONTRACTOR UNTIL IT IS INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR HIS AGENT AT THE SITE. THE LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF THE MATERIALS. ALL REJECTED MATERIALS SHALL BE IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST.

7. DECIDUOUS AND EVERGREEN TREES SHALL BE FIELD ADJUSTED TO MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF TEN (10) FEET FROM ANY OVERHEAD UTILITY WIRES AND/OR UNDERGROUND UTILITIES.

8. DECIDUOUS AND EVERGREEN TREES SHALL BE PLANTED AT LEAST TWO (2) FEET FROM ANY CURBING, PAVING, OR SIDEWALK. WHENEVER POSSIBLE THIS DIMENSION SHOULD BE INCREASED TO FOUR (4) FEET. ALL PLANTINGS, EXCEPT GROUND COVERS, SHOULD BE PLANTED AT LEAST TWO (2) FEET FROM ANY BUILDING AND FIVE (5) FEET FROM ABOVE AND BELOW GROUND UTILITIES.

9. PLANTING MIXTURE SHALL CONSIST OF 70%%% EXISTING SOIL FROM THE PLANTING SITE AND 30% HUMUS OR MUSHROOM SOIL. PRIOR TO USING EXISTING TOPSOIL, REMOVE ALL FOREIGN DEBRIS AND ALL ROCKS OR STONES LARGER THAN 2 INCHES. EACH CUBIC YARD SHALL BE ADDED AND INCORPORATED BY THOROUGHLY MIXING, FOUR POUNDS OF COMMERCIAL FERTILIZER HAVING AN ANALYSIS OF 6-6-6.

10. ALL PLANTS (B&B OR CONTAINER) SHALL BE PROPERLY IDENTIFIED BY WEATHERPROOF LABELS AND SECURELY ATTACHED THERETO BEFORE DELIVERY TO THE PROJECT SITE. LABELS SHALL IDENTIFY THE PLANTS BY COMMON NAME, BOTANICAL NAME AND SIZE. LABELS SHALL NOT BE REMOVED UNTIL FINAL INSPECTION BY THE LANDSCAPE ARCHITECT.

11. CONTRACTOR SHALL SCALE PLANT LOCATIONS FROM THE PLANS AND STAKE LOCATIONS ON-SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR HIS AGENT.

12. ALL SEEDED AREAS THAT DO NOT SHOW A PROMPT UNIFORM GERMINATION SHALL BE RESEEDED BY THE LANDSCAPE CONTRACTOR AT INTERVALS OF 45 – 60 DAYS, UNTIL A GOOD GROWTH IS ESTABLISHED OVER THE ENTIRE LAWN AREA.

13. ALL PLANT BEDS SHALL BE MULCHED WITH THREE (3) INCHES OF DOUBLE SHREDDED HARDWOOD BARK MULCH OR OTHER MATERIAL APPROVED BY THE LANDSCAPE ARCHITECT. THE LIMIT OF THE MULCH FOR TREES SHALL EXTEND 12 INCHES BEYOND THE PLANTING HOLE, AND FOR SHRUBS AND BEDS, THE ENTIRE SHRUB OR BED AREAS AS INDICATED ON THE PLAN OR APPROVED IN THE FIELD. NO MULCH SHALL BE PLACED WITHIN THREE (3) INCHES OF THE TRUNK OR TRUNK FLARE. NO SEPARATE PAYMENT SHALL BE MADE FOR MULCH, BUT THE COST SHALL BE INCLUDED IN VARIOUS ITEMS OF THE PROPOSAL.

14. ALL PLANTING BEDS SHALL BE ROTOTILLED TO A DEPTH OF TEN (10) INCHES PRIOR TO ANY PLANTING. ALL STONES, WIRE, CONCRETE AND UNSUITABLE MATERIALS SHALL BE REMOVED. ALL SHRUB PLANTINGS SHALL BE INSTALLED IN MULCHED PLANTING BEDS EXTENDING AT LEAST TWO (2) FEET FROM THE PLANTS OR AS INDICATED ON THE APPROVED PLANS.

15. PLANTING BEDS SHALL BE THOROUGHLY EXCAVATED, AND BACKFILLED WITH THE PLANT MIXTURE DESCRIBED IN 9 ABOVE. ALL PAVEMENT SUB-BASE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE ISLAND PLANTING BEDS UNTIL THE VIRGIN SOIL IS REACHED.

16. IT IS UNDERSTOOD THAT THE OWNER SHALL ASSUME THE RESPONSIBILITY FOR WATERING ALL PLANT MATERIAL AND LAWN AREAS BEYOND THE GUARANTEE PERIOD FROM COMMENCING WITH THE DATE OF FINAL ACCEPTANCE.

17. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWO (2) YEARS FROM THE COMPLETION DATE OF INSTALLATION. ANY PLANT MATERIAL THAT IS 25% DEAD OR MORE SHOULD BE CONSIDERED DEAD AND MUST BE REPLACED. A TREE SHOULD BE CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK OR WHEN 25% OF THE CROWN IS DEAD. REPLACEMENT SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE EXCAVATING.

19. THE LANDSCAPE ARCHITECT OR HIS AGENT SHALL BE NOTIFIED OF ANY RELOCATION OF PLANTS MADE NECESSARY BY UTILITIES OR OTHER EXISTING FEATURES PREVENTING THE CONTRACTOR FROM IMPLEMENTATION OF THE PLANTING PLAN AS DRAWN. SUCH NOTIFICATION SHALL BE MADE BEFORE THE FIELD CHANGE IS CARRIED OUT.

20. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED INCLUDING ALL LABOR, MATERIALS, PLANTS, AND EQUIPMENT, INCIDENTALS AND CLEAN UP.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT THE CORRECT GRADES AND ALIGNMENT. SET ALL PLANTS PLUMB AND STRAIGHT. SET SHRUBS AT SUCH A LEVEL THAT, AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED OR A MINIMUM OF TWO (2) INCHES ABOVE THE FINISHED GRADE. FOR TREE PLANTINGS, THE CONTRACTOR SHALL LOCATE THE HIGHEST ROOT FLARE PRIOR TO DIGGING THE PLANTING HOLE. THE PLANTING HOLE SHALL BE EXCAVATED TO A DEPTH THAT ENSURES THE TRUNK FLARE IS VISIBLE AND THAT THE HIGHEST ROOT FLARE IS FLUSH WITH EXISTING GRADE. TREES PLANTED LOWER OR HIGHER WILL BE REJECTED. LOCATE ALL PLANTS IN THE CENTER OF THE PIT.

22. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF THE PLANT MATERIAL.

23. INSOFAR AS PRACTICABLE, PLANT MATERIALS SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED LONGER THAN A TWO (2) DAY PERIOD AFTER DELIVERY.

24. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTABLE LOCAL PRACTICE.

25. ALL NON-BIODEGRADABLE ROOT WRAPPINGS (INCLUDING WIRE BASKETS) ARE TO BE REMOVED COMPLETELY BEFORE PLANTING.

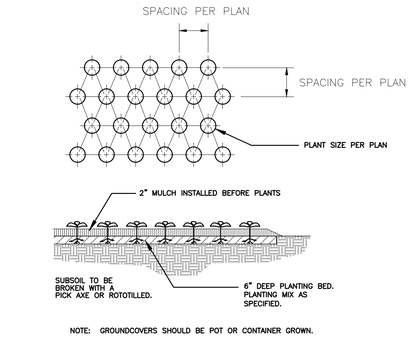
26. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. SHEARS ARE TO BE STERILIZED BETWEEN TREES.

27. ALL INJURED ROOTS SHALL BE PRUNED BEFORE PLANTING, AND OBVIOUS GIRDLING ROOTS REMOVED, PRUNED OR EXTENDED AS APPROPRIATE. IT IS ADVISABLE TO PRUNE BRANCHES WHICH CROSS. THE MAIN LEADER OF DECIDUOUS TREES SHOULD NOT BE CUT BACK. LONG SIDE BRANCHES MUST BE SHORTENED.

28. TREES ARE TO BE SUPPORTED IMMEDIATELY AFTER PLANTING IF CONDITIONS MERIT. TREES SIX (6) INCHES AND OVER IN CALIPER SHALL BE GUYED. SMALLER TREES SHALL BE STAKED. GUYING WIRES AND STAKES SHALL BE AS INDICATED.

29. UNLESS OTHERWISE NOTED, ALL DECIDUOUS AND EVERGREEN TREES SHALL HAVE A SINGLE TRUNK.

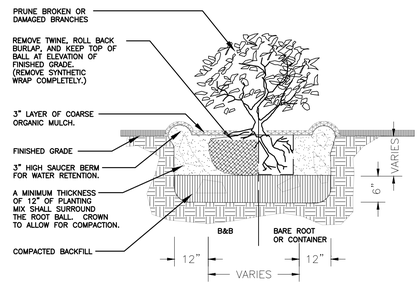
30. DECIDUOUS AND EVERGREEN TREES WHICH ARE B&B SHALL BE DRUM LACED IN LIEU OF WIRE BASKETS.



NOTE: GROUNDCOVERS SHOULD BE POT OR CONTAINER GROWN.

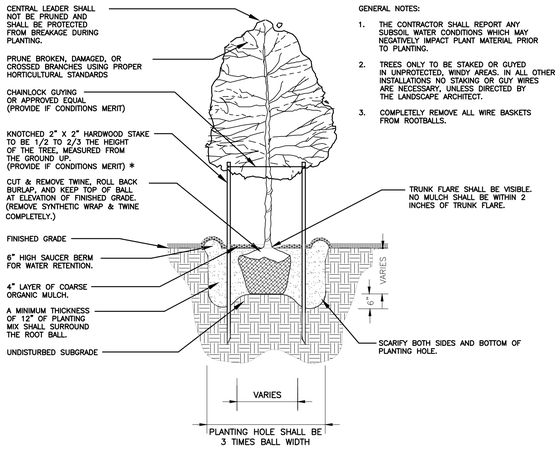
GROUNDCOVER PLANTING DETAIL

NOT TO SCALE



SHRUB PLANTING DETAIL

NOT TO SCALE



GENERAL NOTES:

1. THE CONTRACTOR SHALL REPORT ANY SUBSOIL WATER CONDITIONS WHICH MAY NEGATIVELY IMPACT PLANT MATERIAL PRIOR TO PLANTING.
2. TREES ONLY TO BE STAKED OR GUYED IN UNPROTECTED, WINDY AREAS. IN ALL OTHER INSTALLATIONS NO STAKING OR GUY WIRES ARE NECESSARY, UNLESS DIRECTED BY THE LANDSCAPE ARCHITECT.
3. COMPLETELY REMOVE ALL WIRE BASKETS FROM ROOTBALLS.

SHADE TREE PLANTING DETAIL

NOT TO SCALE

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
AC	ACER CAMPESTRE 'EVELYN'	QUEEN ELIZABETH HEDGE MAPLE	7	2"-2.5" CAL.	B&B
CA	CLETHRA ALNIFOLIA 'COMPACTA'	TOM'S COMPACT SUMMERSWEET	53	18"-24"	#3 CAN
CO	CALAMAGROSTIS X ACUTIFOLIA 'OVERDAM'	OVERDAM FEATHER REED GRASS	565	18"-24"	#2 CAN, 18" O.C.
FG	FOTHERGILLA GARDENII 'SUZANNE'	COMPACT DWARF FOTHERGILLA	29	18"-24"	#3 CAN
IG	ILEX GLABRA 'STRONGBOX'	STRONGBOX INKBERRY HOLLY	83	18"-24"	#3 CAN
LA	LEUCOTHOE AXILLARIS	COAST LEUCOTHOE	29	18"-24"	#3 CAN
LM	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	575	10"-12"	#1 CAN, 12" O.C.
ND	NANDINA DOMESTICA 'FIRE POWER'	FIRE POWER NANDINA	38	18"-24"	#3 CAN
OH	OSMANTHUS HETEROPHYLLUS 'GULFTIDE'	GULFTIDE OSMANTHUS	3	30"-36"	#7 CAN
PS	PRUNUS SERRULATA 'SNOW GOOSE'	SNOW GOOSE FLOWERING CHERRY	6	6-8 FT.	B&B
PT	PACHYSANDRA TERMINALIS	JAPANESE SPURGE	1680	FLAT	6" O.C.
SH	SARCOCOCCA HOOK. HUM. 'FRAGRANT MOUNTAIN'	FRAGRANT MOUNTAIN SWEETBOX	13	18"-24"	#3 CAN
VA	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	67	8"-10"	#1 CAN

NOTES:

1. ALL EXTERIOR GROUND AREAS NOT OCCUPIED BY BUILDINGS, STRUCTURES AND PAVING (EXCEPT AREAS INDICATED TO BE UNDISTURBED AND PLANTING BEDS) SHALL BE MULCHED AREAS.
2. PRUNUS SPECIES ARE CONSIDERED FALL DIG HAZARDS AND SHOULD ONLY BE DUG IN THE SPRING.

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DRAWING TITLE

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CHECKED BY: D.N. DRAWN BY: S.C.

DRAWING No.

LL-2

DWG. NO. OF