

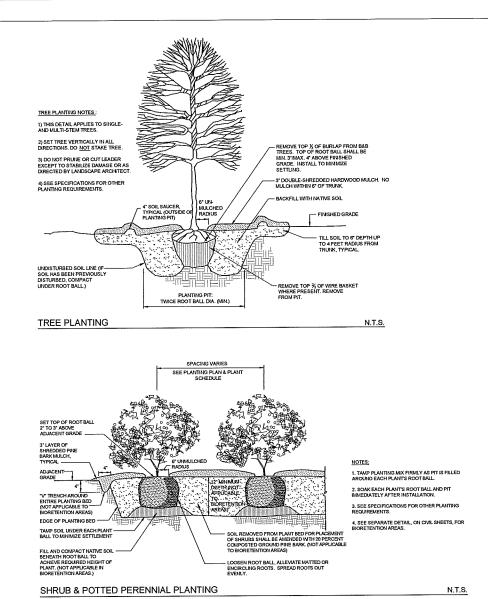
PLANT SCHEDULE						
SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	MINIMUM SIZE	PLANT SPACING & NOTES	
LARGE DECI	DUOUS T	REES & EVERGREENS FOR SCREENING:				
ARB	7	ACER RUBRUM 'RED SUNSET'	RED SUNSET MAPLE	2" TO 2.5" CAL	B&B, PLANT 25' ON CENTER WHERE IN GROUPS	
CBF	8	CARPINUS BETULUS 'FASTIGIATA'	PYRAMIDAL EUROPEAN HORNBEAM	2" TO 2.5" CAL	B&B, PLANT 25' ON CENTER	
IOP	10	ILEX OPACA	AMERICAN HOLLY	6 TO 8' HEIGHT	B&B, PLANT 10' ON CENTER	
PIN	18	PINUS STROBUS 'FASTIGIATA'	UPRIGHT WHITE PINE	6 TO 8' HEIGHT	B&B, PLANT 10' ON CENTER	
QPA	4	QUERCUS PALUSTRIS	PIN OAK	2" TO 2.5" CAL.	B&B, PLANT 25' ON CENTER WHERE IN GROUPS	
QRU	10	QUERCUS RUBRA	RED OAK	2" TO 2.5" CAL.	B&B, PLANT WHERE SHOWN	
UAV	3	ULMUS AMERICANA 'VALLEY FORGE'	VALLEY FORGE ELM	2" TO 2.5" CAL.	B&B, PLANT 25' ON CENTER	
ZSG	9	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2" TO 2.5" CAL.	B&B, PLANT 25' ON CENTER	
SMALL ORNA	AMENTAL	TREES:				
ACA	10	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	1.5" TO 2" CAL.	B&B, MULTI-STEM, PLANT 15' ON CENTER, AND FURTHER APART WHERE SHOW	
HVI	15	HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	1.5" TO 2" CAL	B&B, PLANT 15' ON CENTER, AND FURTHER APART WHERE SHOWN	
MGR	5	MALUS 'GOLDEN RAINDROPS'	GOLDEN RAINDROPS CRABAPPLE	1.5" TO 2" CAL	B&B, PLANT 15' ON CENTER WHERE IN GROUPS	
MSW	4	MAGNOLIA STELLATA WATERLILY	WATERLILY STAR MAGNOLIA	1.5" TO 2" CAL	B&B, PLANT 15' ON CENTER WHERE IN GROUPS	
PSC	ļ	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR SARGENT CHERRY	1.5" TO 2" CAL.	B&B, PLANT WHERE SHOWN	
SHRUBS:		200	1			
AAR	44	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	18" TO 24" HEIGHT	PLANT 3' ON CENTER, AND FURTHER APART WHERE SHOWN	
AME			BLACK CHOKEBERRY	18" TO 24" HEIGHT	PLANT 5' ON CENTER, AND FURTHER APART WHERE SHOWN	
CAM		CEANOTHUS AMERICANUS	NEW JERSEY TEA	18" TO 24" HEIGHT	PLANT 3' ON CENTER	
CLN	77	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	18" TO 24" HEIGHT	PLANT 4' ON CENTER, AND FURTHER APART WHERE SHOWN	
CRA			GRAY DOGWOOD	18" TO 24" HEIGHT	PLANT 8' ON CENTER, AND FURTHER APART WHERE SHOWN	
CSR		CORNUS (SWIDA) SERICEA	REDOSIER DOGWOOD	18" TO 24" HEIGHT	PLANT 4' ON CENTER, AND FURTHER APART WHERE SHOWN	
IGL	1	ILEX GLABRA	INKBERRY	18" TO 24" HEIGHT	PLANT 6' ON CENTER, AND FURTHER APART WHERE SHOWN	
IVE		ILEX VERTICILATA	WINTERBERRY HOLLY	18" TO 24" HEIGHT	PLANT 6' ON CENTER, AND FURTHER APART WHERE SHOWN	
KLA	<del> </del>		MOUNTAIN LAUREL	3' TO 4' HEIGHT	PLANT 6' ON CENTER	
LBE		LINDERA BENZOIN	COMMON SPICEBUSH	18" TO 24" HEIGHT	PLANT 8' ON CENTER, AND FURTHER APART WHERE SHOWN	
MPE		MORELLA (MYRICA) PENSYLVANICA	BAYBERRY	18" TO 24" HEIGHT	PLANT 8' ON CENTER, AND FURTHER APART WHERE SHOWN	
RVG	-	ROSA VIRGINIANA	VIRGINIA ROSE	18" TO 24" HEIGHT	PLANT 4' ON CENTER, AND FURTHER APART WHERE SHOWN	
SLA		SPIRAEA ALBA VAR. LATIFOLIA	MEADOWSWEET	18" TO 24" HEIGHT	PLANT 3' ON CENTER, AND FURTHER APART WHERE SHOWN	
STO		SPIRAEA TOMENTOSA	STEEPLEBUSH	18" TO 24" HEIGHT	PLANT 4' ON CENTER, AND FURTHER APART WHERE SHOWN	
vco	35		HIGHBUSH BLUEBERRY	18" TO 24" HEIGHT	PLANT 6' ON CENTER, AND FURTHER APART WHERE SHOWN	
HERBACEOL					Alaman	
AGE		ANDROPOGON GERARDII	BIG BLUESTEM	2" PLUG	PLANT 2 ON CENTER	
ADI		ASTER DIVARICATUS	WHITE WOOD ASTER	2' PLUG	PLANT 2' ON CENTER	
ANA		ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	2' PLUG	PLANT 2 ON CENTER	
EGR		EUTHAMIA GRAMINIFOLIA	GRASS-LEAVED GOLDENROD	2' PLUG	PLANT 2' ON CENTER	
ELV		ELYMUS VIRGINICUS	VIRGINIA WILD RYE	2" PLUG	PLANT 18" ON CENTER	
IRI	-		BLUE FLAGIRIS	2' PLUG	PLANT 18" ON CENTER	
			MARSH BLAZING STAR	2" PLUG	PLANT 18" ON CENTER	
LSP	1		OSTRICH FERN	#1POT	PLANT 2 ON CENTER	
MST		MATTEUCCIA STRUTHIOPTERIS	CINNAMON FERN	#1POT	PLANT 18" ON CENTER	
OCI		OSMUNDA CINNAMOMEA	SENSITIVE FERN	#1POT	PLANT 2 ON CENTER	
OSE		ONOCLEA SENSIBILIS	SWITCHGRASS	2º PLUG	PLANT 2 ON CENTER	
PVR		PANICUM VIRGATUM		2' PLUG	PLANT 18" ON CENTER	
ZAU	400	ZIZIA AUREA	GOLDEN ALEXANDERS	2 PLUG	PERT TO ONOLITER	

# NOTES:

1. PLANT SPECIES, CULTIVARS, SIZES, AND LOCATIONS SHALL NOT BE CHANGED EXCEPT BY PERMISSION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL CHECK PLANT MATERIAL FROM NURSERIES BEFORE ACCEPTING PLANTS, TO MAKE SURE THERE ARE NO UNAUTHORIZED SUBSTITUTES. ALTERNATE CULTIVARS OF THE SAME SPECIES SHALL NOT BE SUBSTITUTED WITHOUT LANDSCAPE ARCHITECTS APPROVAL

2. ALL HERBACEOUS MATERIAL SHALL BE OBTAINED FROM NEW ENGLAND WETLAND PLANTS, AMHERST, MA. (NOTE TO TOWN OF FRANKLIN: ALTHOUGH SEVERAL OF THESE SPECIES ARENT INCLUDED IN THE BEST DEVELOPMENT PRACTICES GUIDEBOOK'S PLANT LIST, THESE ARE APPROPRIATE FOR BIORETENTION AREAS SINCE THEY TOLERATE BOTH TEMPORARY WATER INUNDATION AND DRY CONDITIONS, AND ARE NATIVE PLANTS.)

3. ALL SHRUBS THAT ARE LOCATED IN BIORETENTION AREAS SHALL BE OBTAINED FROM NEW ENGLAND WETLAND PLANTS, AMHERST, MA. (NOTE TO TOWN OF FRANKLIN: ALTHOUGH MORELLA PENSYVANICA IS NOT INCLUDED IN THE BEST DEVELOPMENT PRACTICES GUIDEBOOKS PLANT UST, IT IS CLOSELY RELATED TO MORELLA CAROLINIENSIS AND IS NATIVE TO THIS REGION. IT IS ALSO APPROPRIATE FOR BIORETENTION AREAS, AS IT CAN TOLERATE BOTH TEMPORARY INJUNDATION AND DRY CONDITIONS.)



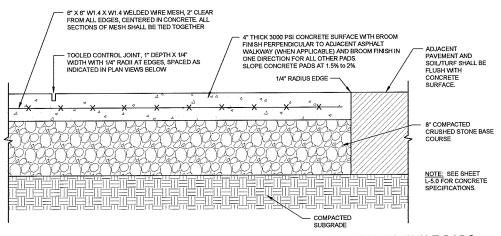


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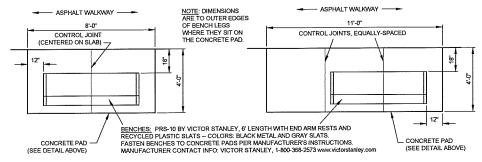
APPLICANT: AMEGO, INC. 33 PERRY AVE ATTLEBORO, MA 0

SITE PLAN OF LAND FRANKLIN, MASSACHUSETT WASHINGTON STREET



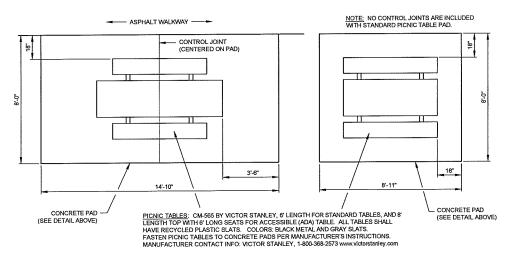
# PORTLAND CEMENT CONCRETE PAVEMENT - FOR BENCH & PICNIC TABLE PADS

SECTION



# BENCH ON STANDARD PAD

# BENCH ON ACCESSIBLE (ADA) PAD

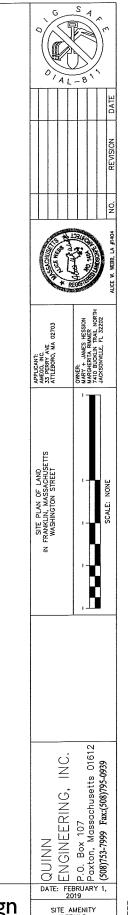


ADA PICNIC TABLE ON ACCESSIBLE PAD

STANDARD PICNIC TABLE ON PAD

# BENCHES AND PICNIC TABLES ON CONCRETE PADS

PLAN VIEW





SITE AMENITY DETAILS SHEET L-4

## TECHNICAL NOTES FOR LOAM BORROW:

1) <u>SCOPE OF WORK</u>: FOR THIS PROJECT, THE WORK SHALL INCLUDE PLACING LOAM ALL AREAS TO RECEIVE PLANTS AND TURFGRASS SEEDING.

2) THE CONTRACTOR SHALL FURNISH A CERTIFIED LABORATORY REPORT SHOWING THE SOILS CLASSIFICATION A NUTRIENT ANALYSIS OF REPRESENTATIVE SAMPLES OF THE LOAM THIS IS PROPOSED TO BE USED, INCLUDING THE EXTENT OF LIME AND FERTILIZER REQUIRED. ALL COSTS FOR SUCH WORK SHALL BE BORNE BY THE CONTRACTOR.

3) IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS OF THIS PROJECT, EXISTING ON-SITE SOIL MAY BE RE-USED AS LOAM BORROW ONLY IF IT MEETS THIS SPECIFICATION. EXISTING TOPSOIL THAT DOES NOT MEET THIS SPECIFICATION MAY BE RE-USED ONLY UP TO THE SUBGRADE ELEVATION WITHIN THE LIMITS OF AREAS TO RECEIVE NEW LOAM BORROW. THE CONTRACTOR SHALL FURNISH ALL REQUIRED LOAM BORROW, FROM OFF-SITE SOURCES, AS NECESSARY, TO COMPLETE THE

4) SCREENED LOAM SHALL BE "FINE SANDY LOAM" OR "SANDY LOAM" DETERMINED BY MECHANICAL ANALYSIS (ASTM D-422) AND BASED ON THE "USDA CLASSIFICATION SYSTEM". SCREENED LOAM SHALL HAVE THE FOLLOWING MECHANICAL ANALYSIS

TEXTURAL CLASS PERCENTAGE	PERCENTAGE OF TOTAL WEIGHT	AVERAGE PERCENTAGE
SAND (0.05 - 2.0 MM)	45 - 75	60
SILT (0.002 - 0.05 MM)	5 - 35	25
CLAY (LESS THAN 0.002 MM)	5 - 20	15

5) SCREENED LOAM SHALL BE A NATURAL PRODUCT CONSISTING PRIMARILY OF NATURAL TOPSOIL, FREE FROM SUBSOIL, AND OBTAINED FROM AN AREA THAT HAS NEVER BEEN STRIPPED BEFORE. SCREENED LOAM SHALL NOT CONTAIN LESS THAN FIVE PERCENT (5%) NOR MORE THAN TEN PERCENT (10%) ORGANIC MATTER. TO ADJUST ORGANIC MATTER CONTENT, THE SOIL MAY BE AMENDED, PRIOR TO SITE DELIVERY, BY THE ADDITION OF COMPOSTED LEAF MOLD OR PEAT MOSS. NO MIXING OR AMENDING OF LOAM IS PERMITTED ON SITE.

#### 6) THE LOAM SHALL NOT BE DELIVERED IN A WET OR FROZEN CONDITION.

7) SCREENED LOAM SHALL CONSIST OF FERTILE FRIABLE, LOAM CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH, LOAM 7) SCREENED LOAM STRULL CONSIST OF FEXTILE, FRIRBLE, LOAM CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH SHALL BE WITHOUT ADMIXTURE OF SUBSOIL AND REFUSE. IT SHALL BE A HOMOGENEOUS MATERIAL FREE OF STONES GREATER THAN ONE-HALF (1/2) INCH IN THE LONGEST DIMENSION; FREE OF LUMPS, PLANTS, GRASS, ROOTS, STICKS, EXCESSIVE STONE CONTENT, DEBRIS, AND EXTRANEOUS MATTER AS DETERMINED BY THE OWNER.

8) SCREENED LOAM SHALL BE WITHIN THE PH RANGE OF 6.0 TO 6.5. IT SHALL BE UNCONTAMINATED BY SALT WATER, FOREIGN MATTER, AND SUBSTANCES HARMFUL TO PLANT GROWTH. THE MAXIMUM SOLUBLE SALT INDEX SHALL BE 100. SCREENED LOAM SHALL NOT HAVE LEVELS OF ALUMINUM GREATER THAN 200 PARTS PER MILLION.

#### 9) SEE TURFGRASS NOTES FOR LIME AND FERTILIZER REQUIREMENTS FOR LAWN AREAS.

10) TOPSOIL STRUCTURE SHALL NOT BE DESTROYED THROUGH EXCESSIVE AND UNNECESSARY HANDLING OR COMPACTION. INAPPROPRIATE HANDLING LEADING TO THE COMPACTION OF DETERIORATION OF SOIL STRUCTURE WILL RESULT IN REJECTION OF TOPSOIL FOR USE.

## 11) AT NO TIME SHALL EQUIPMENT OR MATERIAL REST ON THE SOIL

12) THE CONTRACTOR SHALL FURNISH AND SPREAD LOAM TO A MINIMUM 6 INCH DEPTH (AFTER SOIL SETTLEMENT) IN ALL LAWN AREAS, AND A MINIMUM 8 INCH DEPTH IN ALL PLANT BED AREAS (EXCEPT BIORETENTION AREAS - SEE CIVIL SHEETS FOR THOSE). SUSSOIL SHALL BE SCARIFIED PRIOR TO PLACEMENT OF LOAM. THE TOP OF THE SETTLED LOAM BORROW LAYER SHALL BE TO GRADES SPECIFIED ON THE DRAWINGS, NO COMPACTION SHALL BE REQUIRED BEYOND THAT EXTENT NECESSARY TO PLACE SOD OR OR TO PLANT TREES AND SHRUBS TO ENSURE AGAINST UNEVENNESS OR SETTLING BELOW ACCEPTED GROWTH LINES.

### TECHNICAL NOTES FOR TURFGRASS & PERENNIAL SEEDING:

1) SCOPE OF WORK: FOR THIS PROJECT, THE WORK SHALL INCLUDE SEEDING AREAS DENUDED BY CONSTRUCTION

2) ALL AREAS SHALL BE SEEDED WITHIN 30 DAYS AFTER FINISHED GRADES ARE ESTABLISHED AND OTHER ELEMENTS INCLUDED IN THIS CONTRACT ARE CONSTRUCTED.

A) CERTAIN AREAS ON THE PLAN SHALL RE SEEDED WITH PERENNIAL SEED MIXES AS LABELED ON SHEET L-1, THESE SEED MIXES SHALL BE SUPPLIED BY NEW ENGLAND WETLAND PLANTS, AMHERST, MA, PHONE # 413-548-800. PREPARE SOIL AND SOW SEED IN ACCORDANCE WITH THIS COMPANYS INSTRUCTIONS FOR EACH TYPE OF SEED MIX.

#### B) TURFGRASS: AREAS RECEIVING FULL SUN OR PART SHADE

FESCUE/BLUEGRASS/PERENNIAL RYEGRASS MIXTURE:
MIXTURE REQUIREMENTS ARE AS FOLLOWS (WITH APPROXIMATE PERCENTAGES):

30% PERENNIAL RYEGRASS (ENDOPHYTIC)

#### C) TURFGRASS: AREAS RECEIVING MOSTLY SHADE

FESCUE/PERENNIAL RYEGRASS MIXTURE:
MIXTURE REQUIREMENTS ARE AS FOLLOWS (WITH APPROXIMATE PERCENTAGES):

90% FINE FESCUE (ENDOPHYTIC) 10% PERENNIAL RYEGRASS (ENDOPHYTIC)

D) ANY PROPOSED SUBSTITUTIONS SHALL BE PRESENTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO SEEDING.

- E) ALL TURFGRASS SEED SHALL HAVE A MINIMUM PURITY OF 98 PERCENT AND A GERMINATION RATE OF 85 PERCENT
- F) ALL TURFGRASS SEED SHALL BE LABELED TO SHOW THAT IT IS WITHIN THE REQUIREMENTS OF THE USDA AS TO PURITY, GERMINATION,

4) BED PREPARATION FOR AREAS TO BE SEEDED WITH TURFGRASS: A ROTOVATOR, CHISEL PLOW, OR CULTIVATOR SHALL BE USED TO WORK THE SOIL TO A DEPTH OF SIX INCHES. AFTER THIS OPERATION, REMOVE AND DISPOSE OF STICKS, STONES OVER 1 INCH DIAMETER, AND

5) LIME AND NUTRIENTS FOR TURFGRASS AREAS. LIME SHALL BE GROUND DOLOMITIC LIMESTONE, APPLIED AT THE RATE OF 50 POUNDS PER 1000 SQUARE FEET. LIME SHALL BE WELL-MIXED INTO THE TOP THREE INCHES OF LOAM.

6) FERTILIZER FOR TURFGRASS AREAS: FERTILIZER SHALL BE A COMMERCIAL GRADE WITH A MINIMUM OF 50 PERCENT OF THE NITROGEN COMPONENT IN A CONTROLLED RELEASE FORM LABELED TO RELEASE NITROGEN FOR A MINIMUM OF SIX WEEKS, FERTILIZER SHALL HAVE AN NPM. RATIO IN THE RANGE OF 1:1:1 TO 1:2:2. IT SHALL BE APPLIED AT A RATE WHICH ACHIEVES ONE POUND OF NITROGEN PER 1000 SQUARE

7) SEEDING PROCEDURE FOR TURFGRASS. SOWING OF SEED SHALL BE DONE ONLY AFTER THE PREPARED SOIL, TO WHICH LIME AND FERTILIZER HAVE BEEN ADDED AS SPECIFIED, HAS BEEN THOROUGHLY SETTLED BY RAINFALL OR ARTIFICIAL WATERING. IMMEDIATELY BEFORE ANY SEED IS SOWN, THE GROUND SHALL BE SCRIFTED AS SPECIFIED. LAWN AREAS SHALL BE SEEDED EVENLY WITH A MECHANICAL SPREADER. SEED MIXTURES SHALL BE SOWN AT A RATE OF 5 POUNDS PER 1009 SOURAF FEET. ANS ESEDING, THE LAWNS SHALL BE LIGHTLY RAKED, ROLLED WITH A 200-POUND ROLLER, AND WATERED WITH A FINE SPRAY. THIS METHOD OF SEEDING MAY BE VARIED AT THE DISCRETION OF THE CONTRACTOR ON HIS OWN RESPONSIBILITY TO ESTABLISH A SMOOTH, UNIFORMLY GRASSED LAWN.

8) SEED FOR PERMANENT TURFGRASS SHALL ONLY BE SOWN FROM THE THIRD WEEK IN APRIL THROUGH JUNE AND DURING THE MONTH OF

9) TEMPORARY SEEDING FOR EROSION CONTROL. IN THE EVENT THAT THE CONTRACT IS SUSPENDED, TEMPORARY SEEDING SHALL BE USED ON ANY BARE AREAS THAT MAY BE SUBJECT TO EROSION AND WHERE TEMPORARY VEGETATION CAN BE USED TO RETARD EROSION FROM 2 TO 12 MONTHS. THE SEED TYPE USED FOR TEMPORARY COVER SHALL BE 100 PERCENT TALL FESCUE APPLIED AT A RATE OF 300 POUNDS PER

10) MAINTENANCE: MAINTAIN THE TURFGRASS FROM TIME OF INSTALLATION UNTIL THE FINAL INSPECTION IMMEDIATELY PRIOR TO THE BEGINNING OF THE GUARANTEE PERIOD. MAINTENANCE SHALL INCLUDE WATERING OF TURF AREAS, REPAIRS TO TURF AREAS, AND OTHER NECESSARY OPERATIONS. THE MAINTAINED TURF AREAS SHALL BE MOWED TO A UNIFORM HEIGHT OF APPROXIMATELY TWO AND ONE-HALF INCHES. MOWING SHALL BE PROVIDED AS REQUIRED SO THAT THE TURF NEVER EXCEEDS FOUR INCHES IN HEIGHT. TURF SHALL BE PROTECTED AND REPLANTED AS NECESSARY TO ESTABLISH A UNIFORM STAND OF THE SPECIFIED TURF AND UNTIL ACCEPTANCE. SCATTERED BARE SPOTS, NONE OF WHICH IS LARGER THAN ONE SQUARE FOOT, WILL BE ALLOWED UP TO A MAXIMUM OF THREE PERCENT OF ANY TURF AREA. WHEN TURF AREAS ARE READY FOR FINAL INSPECTION, THE MAINTAINED TURF AREAS SHALL BE NEATLY MOWED TO THE UNIFORM HEIGHTS AS NOTED ABOVE. THE LAWNS SHALL BE CONSIDERED ESTABLISHED ONLY WHEN THE SPECIFIED GRASS IS VIGOROUS AND GROMING WELL IN ADDITION TO MEETING THE OTHER REQUIREMENTS SPECIFIED. AT THE TIME OF ACCEPTANCE FOLLOWING FINAL INSPECTION, THE CONTRACTOR IS RELIEVED OF ROUTINE MAINTENANCE RESPONSIBILITIES FOR THE TURF UNDER THIS CONTRACT.

11) FINAL INSPECTION, CLEANUP AND COMPLETION: FINAL INSPECTION SHALL BE FOR THE COMPLETED LANDSCAPE AND SHALL BE MADE AT THE CONCLUSION OF THE LANDSCAPE WORK. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL EQUIPMENT AND OTHER ARTICLES USED. ALL EXCESS SOIL, STONES, AND DEBRIS SHALL BE REMOVED FROM THE SITE. ALL WORK AREAS SHALL BE REFINED ACLES AND DEBRIS SHALL BE REMOVED BY THE LANDSCAPING OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

12) <u>GUARANTY AND REPLACEMENT.</u> IF A SATISFACTORY STAND OF MAINTAINED TURF HAS BEEN PRODUCED AT THE TIME OF FINAL INSPECTION, IT SHALL BE GUARANTEED THROUGH ONE COMPLETE GROWING SEASON. IF RENOVATION AND/OR RESEEDING ARE REQUIRED AT THE BIND OF THE GUARANTEE PERIOD, THIS WORK SHALL BE DONE IN CONFORMANCE WITH THE REQUIREMENTS NOTICE ABOVE. IF A SATISFACTORY STAND OF MAINTAINED TURF HAS NOT BEEN PRODUCED AT THE TIME OF FINAL INSPECTION, NECESSARY REPAIRS SHALL BE PERFORMED IN CONFORMANCE WITH THE REQUIREMENTS NOTED ABOVE. UPON COMPLETION OF THESE REPAIRS, THE TURF GRASS SHALL BE GUARANTEED AS NOTED ABOVE

## TECHNICAL NOTES FOR TREE, SHRUB, AND GROUNDCOVER **PLANTINGS**:

1) NOMENCLATURE: THE NAMES OF PLANTS REQUIRED UNDER THIS CONTRACT SHALL CONFORM TO THOSE GIVEN IN STANDARDIZED PLANT NAMES. 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES NOT INCLUDED THEREIN SHALL CONFORM GENERALLY WITH NAMES ACCEPTED IN THE NURSERY TRADE.

2) QUALITY AND SIZE: PLANTS SHALL HAVE A HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES AND SHALL BE SOUND, HEALTHY, VIGOROUS, AND FREE FROM INSECT PESTS, PLANT DISEASES, AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED THE MEASUREMENTS SPECIFIED IN THE PLANT LIST, WHICH ARE MINIMUM ACCEPTABLE SIZES. THEY SHALL BE MEASURED BEFORE PRUNING IS DONE AT TIME OF PLANTING. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING, AND BURLAPPING OF PLANTS IN THE PLANT LIST SHALL FOLLOW THE COOL OF STANDARDS CURRENITY, RECOMMENDED BY THE AMERICAN ASSOCIATIONS OF NURSERYMEINC., IN THE AMERICAN STANDARD SURRENITY RECOMMENDED BY THE AMERICAN ASSOCIATIONS OF NURSERYMEINC., IN THE AMERICAN STANDARD SURPENITY ARE COMMENDED.

3) <u>SUBSTITUTIONS</u>: SUBSTITUTIONS WILL BE PERMITTED ONLY UPON SUBMISSION OF PROOF THAT ANY PLANT AS SPECIFIED IS NOT OBTAINABLE DURING THE SCHEDULED PLANTING SEASON. WRITTEN AUTHORIZATION BY THE LANDSCAPE ARCHITECT SHALL BE REQUIRED FOR ANY SUBSTITUTION. THE NEAREST EQUIVALENT SIZE OR VARIETY OF PLANT HAVING THE SAME ESSENTIAL CHARACTERISTICS SHALL BE USED.

4) BALLEO AND BURLAPPED MATERIALS: PLANTS DESIGNATED '8&B' IN THE PLANT LIST SHALL BE BALLED AND BURLAPPED. THEY SHALL BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. MATERIAL SHALL BE IN A CONDITION WHERE THE NATURAL ROOT COLLAR OF THE PLANT IS WITHIN APPROXIMATELY TWO (2) INCHES OF THE SOIL LEVEL OF THE BALL. BALLS SHALL BE FIRMLY WEAPPED WITH BURLAP OR SIMILAR MATERIAL AND BOUND WITH THYMNE, CORD, OR WIRE MESH. NO SYNTHETIC FABRIC IS ALLOWED. WHERE RESSARY TO PREVENT BREAKING OR CRACKING OF THE BALL DURING THE PROCESS OF PLANTING, THE BALL MAY BE SECURED TO A PLATFORM, BALLS SHALL BE KEPT MOST AND SHADED UNTIL THEY ARE PLANTED. REMOVE ALL BALL TIES OR STRAPPING FROM ROOT BALL PRIOR TO PLANTING. PLANT IN ACCORDANCE WITH TREE AND SHRUB PLANTING DETAILS.

5) CONTAINER-GROWN MATERIALS. PLANTS NOT DESIGNATED OTHERWISE IN THE PLANT LIST MAY BE PURCHASED AS CONTAINER-GROWN OR BALLED/BURLAPPED. CONTAINER-GROWN PLANTS, IF STORED ON THE SITE, SHALL WATERED THOROUGHLY AT LEAST ONCE EVERY 48 HOURS. ROOT SYSTEMS OF CONTAINER-GROWN PLANTS SHALL BE WELL-DEVELOPED BUT NOT IN "POT-BOUND" CONDITION OF DENSE, ENCIRCLING ROOTS. THE ROOT BALL OF THE PLANT SHALL BE LOGSENED TO ALLEWATE ENCIRCLING ROOTS AND TO PROVIDE AN INCREASED ONT INTERFACE WITH THE FILL SOIL. PLANT IN ACCORDANCE WITH TREE, SHRUB, AND GROUNDCOVER PLANTING DETAILS.

6) PROTECTION OF PLANTS PRIOR TO INSTALLATION. THE ROOT ZONE OF ALL PLANTS NOT YET INSTALLED SHALL BE PROTECTED FROM FREEZING, DRYING, AND DIRECT SUNLIGHT.

7) <u>MULCHINS</u>: DOUBLE-SHREDDED HARDWOOD MULCH SHALL BE USED AS THE MULCH FOR ALL PLANT BEDS INDICATED ON THE LANDSCAPE PLAN, INCLUDING AREAS SURROUNDING THE PLANTS AS SHOWN ON THE TREE, SHRUB, AND GROUNDCOVER PLANTING SETAILS.

8) PLANTING SEASON: THE NORMAL PLANTING SEASON IS APRIL THROUGH NOVEMBER. SOME PLANTS SPECIFIED AS BALLED AND BURLAPPED CANNOT BE DUG DURING PORTIONS OF THIS PLANTING SEASON - CHECK MTH NURSERIES FOR SPECIFICS. PLANTING OPERATIONS SHALL BE CONDUCTED UNDER FAVORABLE WEATHER CONDITIONS DURING THE NORMAL PLANTING SEASON.

9) <u>WEATHER CONDITIONS:</u> PLANTING SHALL NOT TAKE PLACE WHEN SOILS ON SITE ARE FROZEN OR WET AND IN POOR TILTH.

10) <u>LAYOUT:</u> NEW PLANTINGS SHALL BE LOCATED ACCORDING TO THE LANDSCAPE PLAN. THE CONTRACTOR SHALL STAKE THE PLANT LOCATIONS, AND SHALL THEN CONTACT THE LANDSCAPE ARCHITECT FOR APPROVAL

11) SETTING PLANTS: ALL PLANTS SHALL BE PLANTED IN PREPARED SOILS BEDS, AND SET ON FIRM SOIL TO SUCH DEPTH AS INDICATED IN THE PLANTING DETAILS. TREES, SHRUBS, GROUNDCOVERS, AND PERENNIALS SHALL BE SET SO THAT THE PLANTS NATURAL ROOT COLLAR OR CROWN IS ABOVE FINISHED GRADE AT THE HEIGHTS INDICATED IN THE PLANTINS DETAILS. NO BURLAP SHALL BE PULLED FROM UNDER THE BALLS. ROOTS ON BARE-ROOT PLANTS SHALL BE SPIEAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS SHALL BE CUT OFF CLEANLY. PREPARED SOAL SHALL BE PLACED AND COMPACTED CAREFULLY TO AVIOID INJURY TO ROOTS, TO FILL ALL VOIDS, AND TO MINIMIZE ROCKING OF ROOT BALL. ADD WATER AND TAMP THE BACKFILL UNTIL THE BACKFILL IS COMPLETELY SATURATED, THEN ALLOW IT TO SOAK AWAY. FILL THE HOLE TO FINISHED GRADE, AND FORM A SHALLOW SAUCER AROUND EACH TREE AND SHRUB BY PLACING A RIDGE OF TOPSOIL AROUND THE EDGE OF EACH PIT. AFTER THE GROUND SETTLES, ADDITIONAL SOIL SHALL BE FILLED IN TO THE LEVEL OF THE FINISHED GRADE.

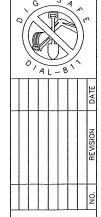
12) <u>STAKING TREES:</u> DO NOT STAKE TREES, UNLESS TREES ARE PLANTED ON STEEP SLOPES, IN WHICH CASE THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR PERMISSION TO STAKE THOSE TREES.

13) MAINTENANCE: MAINTAIN PLANTS AND PLANT BEDS FROM THE TIME OF INSTALLATION UNTIL THE FINAL INSPECTION IMMEDIATELY PRIOR TO COMMENCEMENT OF THE GUARANTEE PERIOD. MAINTENANCE SHALL INCLUDE WATERING AND PROTECTION OF PLANTINGS AND OTHER NECESSARY OPERATIONS.

14) FINAL INSPECTION: WHEN THE TREE AND SHRUB PLANTINGS ARE READY FOR FINAL INSPECTION, ALL MULCHED AREAS SHALL BE FREE FROM WEEDS AND MULCHED TO THE EXTENT INDICATED ON THESE DRAWINGS. PLANT TAGS SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO THE INSPECTION FOR ACCEPTANCE.

15) GUARANTEE: AFTER ACCEPTANCE AT TIME OF FINAL INSPECTION, ALL PLANTS SHALL BE GUARANTEED FOR ONE (1) YEAR. PLANTINGS SHALL BE ALIVE AND IN SATISFACTORY VIGOR AT THE END OF THE GUARANTEE PERIOD.

16) REPLACEMENT: AT THE END OF THE GUARANTEE PERIOD, ANY PLANT REQUIRED UNDER THIS CONTRACT THAT IS DEAD OR IN POOR VIGOR SHALL BE REMOVED FROM THE SITE. THESE AND ANY MISSING PLANTS SHALL BE REPLACED AS SOON AS CONDITIONS PERMIT, BUT DURING THE NORMAL PLANTING SEASON. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AS ORIGINALLY PLANTED AND SHALL BE OF SIZE EQUIA. TO THAT ATTAINED BY ADJACENT PLANTS OF THE SAME KIND AT THE TIME REPLACEMENT IS MADE. ONLY ONE REPLACEMENT WILL BE REQUIRED FOR EACH PLANT DECLARED DEAD, IN AN UNHEALTHY OR BADLY IMPAIRED CONDITION, OR MISSING AT THE TIME OF FINAL

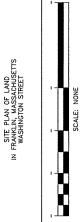




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(<del>P</del>)

DATE: FEBRUARY 1, 2019

TECHNICAL NOTES SHEET L-5

# TECHNICAL NOTES FOR PORTLAND CEMENT CONCRETE SURFACING (PADS FOR SITE FURNISHINGS)

- 1) SCOPE OF WORK: THE WORK COVERED BY THIS SPECIFICATION CONSISTS OF THE SUBGRADE PREPARATION, BASE COURSE, FORM WORK, REINFORCEMENT, JOINTING, PLACING, FINISHING AND CURING OF CONCRETE WORK ITEMS INCLUDED ARE CONCRETE PADS FOR BENCHES AND PICNIC TABLES.
- 2) INDUSTRY STANDARDS: SOME PRODUCTS AND EXECUTION METHODS ARE SPECIFIED IN THIS SECTION BY REFERENCE TO PUBLISHED SPECIFICATIONS OR STANDARDS OF THE FOLLOWING, WITH RESPECTIVE ABBREVIATIONS USED.

AASHTO: AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

ACI: AMERICAN CONCRETE INSTITUTE

ASTM: AMERICAN SOCIETY FOR TESTING & MATERIALS

AWS: AMERICAN WELDING SOCIETY

PS: U. S. PRODUCT STANDARDS

MSSHB: MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES

3) PORTLAND CEMENT CONCRETE: STANDARD WEIGHT, READY MIXED CONCRETE CONFORMING TO ASTM C94-73A AND HAVING THE FOLLOWING PROPERTIES.

A) MAXIMUM SIZE AGGREGATE OF 3/4 INCH

B) NON-VIBRATED SLUMP BETWEEN 2.5 AND 4 INCHES

C) 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS

D) CONCRETE SHALL BE AIR ENTRAINED TO PROVIDE AN AIR CONTENT OF 6.0 PERCENT PLUS OR MINUS 1/4 PERCENT. AIR ENTRAINING AGENTS SHALL MEET THE REQUIREMENTS OF ASAHTO M154.

E) WATER USED SHALL BE CLEAN AND FREE FROM OIL, SALT, ACID, ALKALI, ORGANIC MATTER, OR OTHER SUBSTANCES INJURIOUS TO THE FINISHED PRODUCT.

F) MAXIMUM WATER-CEMENT RATIO OF 0.532

- 4) WELDED WIRE MESH: ELECTRICALLY WELDED WIRE FABRIC OR COLD DRAWN WIRE OF GAUGE AND SPACING SHOWN ON THE DRAWNINGS, CONFORMING TO "SPECIFICATIONS FOR WELDED STEEL FABRIC FOR CONCRETE REINFORCEMENT", ASTM A-185-70. WELDED WIRE FABRIC SHALL BE FURNISHED IN MATS AND NOT IN ROLLS.
- 5) AGGREGATE FOR BASE COURSE: DENSE GRADED CRUSHED STONE FOR BASE COURSE SHALL BE A 3/4\* CRUSHED STONE AND SHALL MEET THE REQUIREMENTS OF MA DOT SPECIFICATION SECTION M2.01.4 OF DIVISION 3 - MATERIALS.
- 6) FORMS: FORMS SHALL BE OF EITHER WOOD OR STEEL OF SIZE AND STRENGTH TO RESIST MOVEMENT DURING CONCRETE PLACEMENT AND TO RETAIN HORIZONTAL AND VERTICAL ALIGNMENT UNTIL REMOVAL. FORMS SHALL BE STRAIGHT AND FREE OF DISTORTION AND DEFECTS. BENT, TWISTING, SPLIT OR DEFECTIVE MATERIALS WILL NOT BE PERMITTED.
- 7) SUBGRADES:
- A) THE SUBGRADE SHALL BE SHAPED TO THE LINES AND GRADES ESTABLISHED BY THE DRAWINGS, ALL BOULDERS AND ALL VEGETATIVE MATTER SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL. SUITABLE MATERIAL SHALL COME FROM SOURCES APPROVED BY THE OWNER'S REPRESENTATIVE. THE TOP SIX (6) INCHES OF SUBGRADE, IN AREAS WITHOUT FILL, SHALL BE COMPACTED AS CLOSE AS POSSIBLE TO 100 PERCENT MAXIMAL DRY DENSITY AS DETERMINED BY ASSHTO METHOD T99. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS OF EIGHT (6) INCHES OR LESS.
- B) THE SUBGRADE SHALL BE COMPACTED AT A MOISTURE CONTENT THAT IS APPROXIMATELY THAT REQUIRED TO PRODUCE THE MAXIMUM DENSITY INDICATED BY THE TEST METHOD NOTED ABOVE. THE CONTRACTOR SHALL DRY OR ADD MOISTURE TO THE SUBGRADE WHEN REQUIRED TO PROVIDE A UNIFORMLY COMPACTED AND ACCEPTABLE SUBGRADE.
- 8) PLACEMENT AND COMPACTION OF AGGREGATE BASE COURSE: THE AGGREGATE MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED EIGHT (8) INCHES. EACH LAYER SHALL BE GRADED TO THE REQUIRED SECTION AND COMPACTED TO AT LEAST 95 PERCENT OF THE DENSITY AS DETERMINED BY AASHTO T180. THE BASE MATERIAL SHALL BE COMPACTED AT A MOISTURE CONTENT WHICH IS APPROXIMATELY THAT REQUIRED TO PRODUCE THE MAXIMUM DENSITY.

- 9) FORM WORK: FORMS SHALL BE STRAIGHT, TRUE TO PLANE, PLUMB, AND SHALL BE BRACED TO PREVENT DISPLACEMENT DURING CONCRETE PLACING. FORMS SHALL BE TIGHT TO PREVENT LEAKAGE OF CONCRETE. ALL INSIDE FORM SURFACES SHALL BE THOROUGHLY COATED WITH COMMERCIAL QUALITY FORM OIL.
- 10) JOINTS: PROVIDE CONTROL JOINTS IN ACCORDANCE WITH THE DRAWINGS.
- 11) METAL REINFORCEMENT: PROVIDE METAL REINFORCEMENT IN ACCORDANCE WITH THE DRAWINGS
- 12) PLACING CONCRETE:
  - A) PREPARATION BEFORE PLACING:

  - (1) NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADES HAVE BEEN INSPECTED BY THE OWNER'S REPRESENTATIVE.

    (2) BEFORE CONCRETE IS PLACED, CLEAN ALL MIXING AND TRANSPORTING EQUIPMENT; AND REMOVE DEBRIS, ICE, WATER, AND DELETERIOUS MATERIAL FROM FORMS AND REINFORCEMENT THAT WOULD AFFECT QUALITY OR APPEARANCE OF CONCRETE, OR INHIBIT BOND OF CONCRETE TO REINFORCING.
  - (3) PROVIDE RUNWAYS AND ACCESS TO AREAS TO BE PLACED WHICH WILL PROTECT FORMS AND REINFORCEMENT FROM DISPLACEMENT.
  - (4) PLACE CONCRETE ON A FIRM, DRY SUBGRADE. IN NO CASE PLACE CONCRETE ON FROZEN SUBGRADE
  - B) CONVEYING: CONVEY CONCRETE FROM MIXER TO PLACE OF FINAL DEPOSIT BY METHODS THAT WILL PREVENT SEPARATION OR LOSS OF MATERIALS. EQUIPMENT FOR CONVEYING CONCRETE SHALL BE OF SUCH SIZE AND DESIGN AS TO INSURE A PRACTICALLY CONTINUOUS FLOW OF CONCRETE FROM DELIVERY END TO POINT OF DEPOSIT WITHOUT SEPARATION OF MATERIALS.
  - C) DEPOSITING:
  - (1) DO NOT MIX NOR POUR CONCRETE WHEN ATMOSPHERIC TEMPERATURE IS BELOW 40 DEGREES F., NOR WHEN SUCH TEMPERATURES ARE EXPECTED WITHIN TWO DAYS.

  - (1) DEPOSIT CONCRETE AS NEARLY AS PRACTICABLE IN ITS FINAL POSITION TO SET ON SET OF THE CONCRETE AS NEARLY AS PRACTICABLE IN ITS FINAL POSITION TO SET ON SET OF THE CONCRETE AS NEARLY AS PRACTICABLE IN ITS FINAL POSITION TO SET ON SET OF THE CONCRETE AS NEARLY AS PRACTICABLE IN ITS FINAL POSITION TO SET OF THE CONCRETE AS NEARLY AS THE CONCRETE AS T CONSTRUCTION JOINTS IS COMPLETE.
  - (4) CONSOLIDATE CONCRETE THOROUGHLY BY SUITABLE MEANS DURING PLACEMENT. WORK THOROUGHLY AROUND REINFORCEMENT AND EMBEDDED ITEMS, AND INTO CORNERS OF FORMS

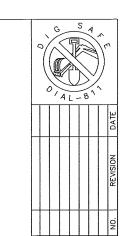
  - (a) CONSCIDENTE CONCRETE I HOROCOGNET STANDERS DUTING TO EXCEPT.

    (5) SPADE CONCRETE THOROCOGNET STANDERS AND EXPANSION JOINTS.

    (6) WHERE SURFACE MORTAR IS BASIS OF FINISH OF CONCRETE, WORK COARSE AGGREGATE BACK FROM FORMS WITHOUT FORMATION OF SURFACE VOIDS.

    (7) VIBRATORS MAY BE USED PROVIDED THEY ARE USED BY EXPERIENCED OPERATORS, AND PROVIDED FORMS HAVE BEEN DESIGNED AGAINST DEFLECTION AND DISPLACEMENT BY VIBRATED CONCRETE.
  - (8) TAMP AND SCREED CONCRETE TRUE TO GRADE AND SECTION. DO NOT TROWEL CONCRETE (AFTER DARBYING) UNTIL SURFACE WATER HAS EVAPORATED.
- 13) FINE BROOM FINISH FOR HORIZONTAL SURFACES OF PADS (FINE BROOM FINISH): AFTER SCREEDING AND CONSOLIDATING SLABS, DO NOT WORK SURFACE UNTIL READY FOR FLOATING, SPRINGLING DRY CEMENT, OR MIXTURE OF DRY CEMENT AND SAND, IS NOT PERMITTED. BEGIN FLOATING WHEN WATER SHEEN HAS DISASPEARED, ANDIOR MIX HAS STIFFENED SUFFICIENTLY TO PERMITTHE OPERATION OF POWER-DRIVEN FLOATS. CHECK AND LEVEL SURFACE LANE TO A TOLERANCE NOT EXCEEDING X, INCH IN 10 FEET WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE. CUIT DOWN HIGH SPOTS AND FILL LOWN SPOTS. UNIFFORMLY SLOPE SURFACES, IMMEDIATELY AFTER TROWEL FINISHING, SLIGHTLY ROUGHEN CONCRETE SURFACE BY BROOMING WITH FIBER BRISTLE BROOM PERPENDICULAR TO MAIN DIRECTION OF PEDESTRIAN TRAFFIC, OR IN ACCORDANCE WITH THE DRAWNINGS.
- 14) REMOVAL OF FORMS: AFTER A MINIMUM OF 24 HOURS REMOVE FORMS CAREFULLY. DO NOT DAMAGE FACE OF CONCRETE OR CHIP TOOLED EDGE.
- 15) CONCRETE SURFACE REPAIRS: REPAIR AND PATCH DEFECTIVE AREAS WITH CEMENT MORTAR IMMEDIATELY AFTER REMOVAL OF FORMS, BUT ONLY WHEN ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. CUT OUT HONEYCOMB, ROCK POCKETS, VOIDS OVER ½ INCH DIAMETER, AND HOLES LEFT BY TIE RODS DOWN TO SOLID CONCRETE, BUT IN NO CASE TO A DEPTH OF LESS THAN 1 INCH. ALSO REMOVE FINS AND OTHER PROJECTIONS ON SURFACE AND STAINS AND OTHER DISCOLORATIONS THAT CANNOT BE REMOVED BY CLEANING, BEFORE PLACING CEMENT MORTAR, THOROUGHLY CLEAN, DAMPEN WITH WATER AND BRUSH-COAT THE AREA TO BE PATCHED WITH NEAT CEMENT ROQUIT. PROPRIETARY PATCHING COMPOUNDS MAY BE USED WHEN ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. REMOVE AND REPLACE CONCRETE HAVING DEFECTIVE SURFACES IF DEFECTS CANNOT BE REPAIRED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 16) PROTECTION AND CURING: ALL EXPOSED SURFACES OF CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING. FRESHLY PLACED CONCRETE SHALL BE PROTECTED AGAINST WASH BY RAIN AND AGAINST VANDALISM.

  FOR CONCRETE AREAS INTENDED FOR VEHICULAR TRAFFIC, NO TRAFFIC SHALL BE ALLOWED ON CONCRETE FOR A PERIOD OF 14 DAYS AFTER POURING. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY DAMAGED CONCRETE AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND THESE SPECIFICATIONS.





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TECHNICAL NOTES SHEET L-6

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