

4. CONTRACTOR SHALL PROTECT ALL EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING PLANTING OPERATIONS. ANY DAMAGE TO SAME SHALL BE REPAIRED AT NO COST TO THE OWNER.

BEFORE CONSTRUCTION / MATERIAL INSTALLATION BEGINS (MINIMUM 10' - 0'

6. ALL UNDERGROUND UTILITIES SHALL BE LAID SO THAT TRENCHES DO NOT CUTTHROUGH ROOT SYSTEMS OF ANY EXISTING TREES TO REMAIN. 7. EXISTING CONTOURS, TRAILS, VEGETATION, CURB/GUTTER AND OTHER EXISTING ELEMENTS BASED UPON INFORMATION SUPPLIED TO LANDSCAPE ARCHITECT BY OTHERS. CONTRACTOR SHALL VERIFY ANY AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF SAME.

B. THE ALIGNMENT AND GRADES OF THE PROPOSED WALKS, TRAILS AND/OR ROADWAYS ARE SUBJECT TO FIELD ADJUSTMENT REQUIRED TO CONFORM TO LOCALIZED TOPOGRAPHIC CONDITIONS AND TO MINIMIZE TREE REMOVAL AND GRADING. ANY CHANGE IN ALIGNMENT MUST BE APPROVED BY LANDSCAPE ARCHITECT. GRADING NOTES

9. FILL/CUT AS NECESSARY TO PROVIDE A 1% MINIMUM GRADE AWAY FROM BLDGS. WITHIN LIMITS OF CONSTRUCTION.

10. WHERE EXISTING TREES AND/OR SIGNIFICANT SHRUBS MASSINGS ARE FOUND ON SITE, WHETHER SHOWN ON THE DRAWING OR NOT, THEY SHALL BE PROTECTED AND SAVED UNLESS NOTED TO BE REMOVED AND/OR ARE IN AN AREA TO BE GRADED. ANY QUESTION REGARDING WHETHER PLANT MATERIAL SHOULD REMAIN OR NOT SHALL BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO

LANDSCAPE INSTALLATION

11. COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE. 12. NO PLANTING WILL BE INSTALLED UNTIL COMPLETE GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. SOD ALL DISTURBED AREAS.

14. WHERE SOD/SEED ABUTS PAVED SURFACES, FINISHED GRADE OF SOD/SEED SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.

20. ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN THE FIELD. SHOULD AN ADJUSTMENT BE ADVISED, THE LANDSCAPE ARCHITECT MUST BE

21. ALL PLANT MATERIALS SHALL BE FERTILIZED UPON INSTALLATION WITH DRIED BONE MEAL, OTHER APPROVED FERTILIZER MIXED IN WITH THE PLANTING SOIL PER THE MANUFACTURER'S INSTRUCTIONS OR MAY BE TREATED FOR SUMMER AND FALL INSTALLATION WITH AN APPLICATION OF GRANULAR 0-20-20 OF 12 OZ PER 2.5? CALIPER PER TREE AND 6 OZ PER SHRUB WITH AN ADDDITIONAL APPLICATION OF 10-10-10 THE FOLLWING SPRING IN THE TREE SAUCER.

22. ALL PLANTS TO BE INSTALLED AS PER PLANTING DETAILS. 23. ALL PLANTING AREAS RECEIVING GROUND COVER, PERENNIALS, ANNUALS, AND/OR VINES SHALL RECEIVE A MINIMUM OF 8" DEPTH OF PLANTING SOIL CONSISTING OF AT LEAST 45 PARTS TOPSOIL, 45 PARTS PEAT OR MANURE AND 10 PARTS SAND. 24. WRAPPING MATERIAL SHALL BE CORRUGATED PVC PIPING 1? GREATER IN CALIPER THAN THE TREE BEING PROTECTED OR QUALITY, HEAVY, WATERPROOF CREPE PAPER MANUFACTURED FOR THIS PURPOSE. WRAP ALL DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO 12-1 AND REMOVE ALL WRAPPING AFTER 5-1.

25. STEEŁ EDGER TO BE USED TO CONTAIN SHRUBS, PERENNIALS AND ANNUALS WHERE BED MEETS SOD/SEED UNLESS NOTED OTHERWISE. 26. ALL SHRUB BED MASSINGS ADJACENT TO BUILDING AND PARKING LOT ISLANDS TO RECIEVE 4" DEEP STONE MULCH AND FIBER MAT WEED BARRIER ALL OTHER SHRUB BED MASSINGS TO RECEIVE 4" DEEP SHREDDED HARDWOOD MULCH

27. ALL EVERGREEN TREES TO RECEIVE 4" DEEP SHREDDED HARDWOOD MULCH WITH NO MULCH IN DIRECT CONTACT WITH TREE TRUNK. 28. ALL ANNUAL AND PERENNIAL PLANTING BEDS TO RECEIVE 3" DEEP SHREDDED HARDWOOD MULCH WITH NO WEED BARRIER. 29. VERIFY PROPOSED IRRIGATION SYSTEM LAYOUT AND CONFIRM COMPLETE LIMITS OF IRRIGATION PRIOR TO SUPPLYING SHOP DRAWINGS.

34. CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS UNTIL TIME OF OWNER ACCEPTANCE. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO OWNER ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, CONTRACTOR SHALL PROVIDE THE CWNER WITH A MAINTENANCE PROGRAM INCLUDING, BUT NOT NECESSARILY LIMITED TO, PRUNING, FERTILIZIATION AND DISEASE/PEST CONTROL.

35. CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE CALENDAR YEAR FROM THE DATE OF OWNER ACCEPTANCE. 36. WARRANTY (ONE FULL GROWING SEASON) FOR LANDSCAPE MATERIALS SHALL BEGIN ON THE DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT AFTER THE

38. UNLESS NOTED OTHERWISE THE APPROPRIATE DATES FOR SPRING PLANT MATERIAL INSTALLATION AND SEED/SOD PLACEMENT IS FROM THE TIME GROUND HAS THAWED

40. CONIFEROUS PLANTING MAY OCCUR FROM AUGUST 15 — OCTOBER 1 AND FALL DECIDUOUS PLANTING FROM THE FIRST FROST UNTIL NOVEMBER 15. PLANTING OUTSIDE THESE DATES IS NOT RECOMMENDED. ANY ADJUSTMENT MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT. 41. LANDSCAPE CONTRACTOR SHALL ESTABLISH TO HIS SATISFACTION THAT SOIL AND

LANDSCAPE ARCHITECT.

CONFEROUS TREES

FULL FORM TO GROUND

<u>SPACE 3'-0" 0.C</u>

SPACE 5'-0" O.C

SPACE 3'-0" O.C.

SPACE 4'-0" O.C

SPACE 3'-0" O.C.

SPACE 12" O.C.

POT

SPRD.

2 BLACK HILLS SPRUCE

<u> IRIBES ALPINUM</u>

G IIS ANTHONY WATERER SPIREA

145 CAREFREE BEAUTY ROSE

EUONYMUS ALATUS

96 STELLA D'ORO DAYLILY

55 ASSORTED DAYLILY

HEMEROCALLIS SP.

84 MINT JULEP JUNIPER

J 2 WINGED EUONYMUS

F 12 ALPINE CURRANT

<u>| PICEA GLAUCA DENSATA</u>

SPIRAEA JAPONICA 'ANTHONY WATERER'

IROSA X SP. 'CAREFREE BEAUTY'

JUNIPERUS CHINENSIS 'MINT JULEP'

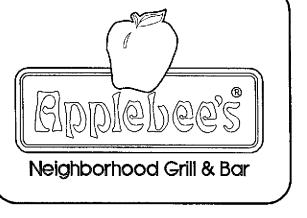
HEMEROCALLIS 'STELLA D'ORO

COMPLETION OF PLANTING OF ALL LANDSCAPE MATERIALS. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.

37. REPRODUCIBLE AS-BUILT DRAWING(S) OF ALL LANDSCAPE INSTALLATION AND SITE IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION INSTALLATION AND PRIOR TO

39. FALL SODDING IS GENERALLY ACCEPTABLE FROM AUGUST 15 - NOVEMBER 1. FALL SEEDING FROM AUGUST 15 - SEPTEMBER 15: DORMANT SEEDING IN THE FALL SHALL NOT OCCUR PRIOR TO NOVEMBER 1. PLANTING DUTSIDE THESE DATES IS NOT RECOMMENDED. ANY ADJUSTMENT MUST BE APPROVED IN WRITING BY THE

COMPACTION CONDITIONS ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AT AND AROUND THE BUILDING SITE. 42 OURSED SHALL DE DESCONSIDLE FOR ALABITABLIA STREETSCARE DI ANTO

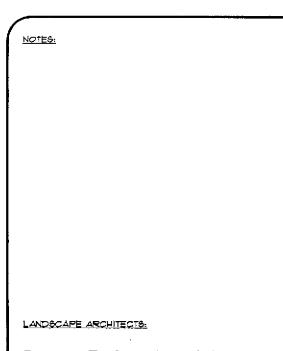


OWNERS/DEVELOPERS:

APPLEBEE'S INTERNATIONAL, INC. 4551 W. 107th Street Suite 100 Overland Park, Kansas 66207 (913)967-4005 fax(913)341-1695



BID ISSUE



CIVIL SHEET INDEX SHEET TITLE EXISTING CONDITIONS PLAN SITE PLAN GRADING & EROSION CONTROL PLAN UTILITY PLAN ENLARGED PLAN CONSTRUCTION DETAILS SITE ELECTRICAL PLAN LANDSCAPE PLAN LANDSCAPE SPECIFICATIONS RRIGATION PLAN

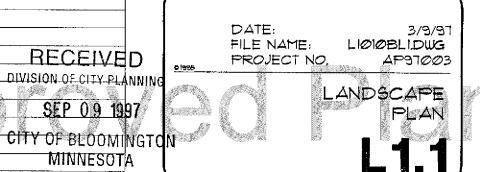
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Quality Managment Review:	
By: SARA MORE Date: 6/2	4/97
CERTIFICATION:	
I hearby centify that the plan was prepared	
by me, or under my direct supervision	
and that I am a duly registered	
Landscape Architect under the laws of	
the state of Minnesota	
Museum Jacobson	

PROJECT: APPLEBEE'S

RESTAURANT Bloomington, Minnesota



info@landform.net

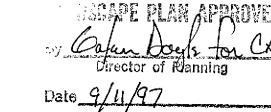


SEP 0.9 1997

MINNESOTA

WOOD FENCE DETAIL NOT TO SCALE

ELEVATION



F BLOOMINGTON, MN

SPECIFICATIONS

SECTION 02930 - SODDING

PART I - GENERAL I.OI SUMMARY

A. Section includes:

 1. Sodding
 2. Fertilizing
 3. Watering and moving B. Related Sections

I. Conditions of the Contract and Division I + General Requirements govern provisions

of this section. 2. Section *02200 —* Barthwork: Topsod 4. Section 02950 - Trees, Shrubs and Groundcover

1,02 REFERENC

A. Minnesoto Department of Transportation, Standard Specifications for Construction, 1995

B. American Sod Producers Association, Inc. (ASPA): Guideline Specifications to Sodding

C. Federal Specifications (Fed. Spec.): O-F-2410; Fertilizers, Mixed, Commercial.

1.03 PROTECTION

A. Monuments: Carefully montain benchmarks, manuments and other reference points, if

B. Protection: Contractor shall protect all that is to remain and shall conduct all sadding operations in a manner that will not damage or jeopardize the surrounding plant life

A. Submit soil test results to landscape architect prior to beginning of landscape operations. PART 2 - PRODUCTS

A. Sod sholl be nursery grown as classifed in the ASPA Guideline Specifications to Sodding. Sod shall be 100% inheral sod. Sod grown in peat sols will not be accepted. B. Sad shall be used in all areas to be sadded, and shall require the following inxture:

Botanical Name Common Name Mixture Percent (Min) Poa protensis Kentucky Blue Gross 75

Acceptable varieties include park, newport, glade, nugget, touch down, rugby and parade. C. Sad shall be free from naxous weeds, relatively free from all other weeds and free from

A. Fertilizer: Shall be a commercial formula containing at least the minimum analysis of 0%

A. Contractor shall supply vater as necessary to assure that plant material is uniformly

mostened and maintained in a most condition until the work has been approved by the

A. Topsof shall be obtained from the soft horizons normally designated as "A" or "B" as

beginning landscape operations. Tests shall be submitted to the landscape architects and appropriate amendments should be made (if necessary) thereafter. All sais test

I. Line: Natural Imestane containing not less than 85% of total carbonates, ground so

that not less than 90% passes a 10 mesh sieve and not less than 50% passes a 100

3. Peat humps: FS Q-P-166 and with texture and pH range suitable for incended use.

5. Super phosphate: Soluble mixture of treated minerals; 20% available phospharic acid.

. Sowdust: Rotted sawdust, free of chips, stones, sticks, sof or toxic substances and

with 7.5 lbs of nitrogen uniformly mixed into each cubic yard of savidust.

10. Manure: Well rotted, unbleached stable or cottle manure containing not more than

chemicals or ingredients harmful to plants.

11. Peat mass: Peat mass shall be partially decomposed sphagnium mass, brown in color,

12. MnDOT Grade 2 compost: Humus rich compost derived from leaves and yard vaste

and delivered to the Job site in bales marked with the name of the manufacturer Before using, the peat mass shall be thoroughly shredded into small particles.

25% by volume stray, savdust or other bedding materials and containing no

l. Bone meal: Commercial, raw, finely ground; 4% nitrogen and 20% phosphoric acid.

defined by the Sciences Society of America, or shall be obtained from alluvial deposits. In

B. Subsoil and topsoil to be tested for its structure and ability to support plant growth prior to

landscape architect and responsibility for maintenance accepted by the owner

addition, topsoil borrow shall meet the following requirement:

total Nitrogen, 26% Phosphoric Acid, 26% vater soluble Potash (0-26-26) applied at the

roots, stones and any other objectionable materials. Sad shall reset normal handling vithaut undue breaking ar tearing.

D. Before sod is cut, it shall be raked free of debris and the top growth trimmed to a height of E. Sad shall be cut in uniform strips 18' minimum width and to a uniform thickness so a

dense root system will be retained, but be exposed on the bottom side of the sod. When sod is cut, it shall be sufficiently most to withstand exposure and handling during transplant operations. If necessary, sad shall be watered before cutting.

> 3.06 CLEAN-UP A. All soil manure, or similar material brought into paved areas by work operations shall be removed promptly, keeping these areas clean at all times. Upon completion of sodding, excess soil, stones, and debris not previously cleaned up shall be disposed of off site.

B. All ground areas disturbed as a result of sodding shall be restored to their original condition or to the desired new oppearance

3.01 GROUND PREPARATION A. The grading of all areas to within 4" of final grade and the placing of 4" topsoil for final grading is specified in Section O2200, Earthwork. B. Immediately prior to solding, Contractor shall loosen the topsoil to a depth of 3^\prime on all

3.02 FERTILIZING

A Fertilizer shall be applied to a properly prepared set bed prior to sadding with a mechanical spreader and thoroughly mixed in top 3" by means of a meeker harrow, b veighted chain link fence, or other approved met floring when applied.

areas except alopes sceeper than 3 horizontally to I vertically, using discs, horizontally term of sea, horizontally term of sea, horizontally expenses the control of seasons of the control of seasons of seaso

3.03 500DING A Precommon shall be taken to prevent sod from dryta out, and from heating. Sod that shows visible signs of heating shall not be incorporated in the project.

B. Strps shall be placed tightly against each other so that no open joints are apparent. Joints between ends of strps shall be staggered at least one foot between adjacent rows. C. On stones, the sodding shall beam at the bottom and progress upward with strips laid

transverse to the flow of voter. If necessary to protect sod already laid, the Contractor shall Furnish ladders or treaded planks for workmen O. At the top of the slopes, sod will be laid so water from adjacent areas will have free flow

E. No sadding shall be done earlier than August 15th nor later than November 1st, for fall sadding or earlier than April 15th nor later than June 1st for spring sadding. Changes in above dates only if directed in writing by the Landscape Architect, specifying exact date of

installation and length of quarantee period. P. Sod shall be watered and compressed into the underlying soft by rolling, or tamped into place. The initial vatering and rolling shall provide firm contact and bond between the sad and the underlying sail. The rolling shall result in a smooth, even surface free of humps

G. Keep and contribusty most and well vatered for 14 days after laying. Thereafter, water sod until soil is socked at least once every four days unless natural rainfall has provided

H. Protect sadded areas with warming signs during maintenance period.

3.04 WATERING AND MOWING

A. Watering of all turf areas shall be performed by the Contractor as necessary to assure that godded areas are uniformly moistened and maintained in a moist condition until the work has been approved by the Landscape Architect and responsibility for maintenance

B. Sodded areas shall be irmmed to a height of 2", if the growth exceeds 3" during the construction period, prior to acceptance by the Owner. Immediately remove heav clippings after moving and trimming. 3.05 ESTABLISHMENT AND REPLACEMENT

A. Any sad which fails to become established during the first 30 days after Owner acceptance shall be replaced mmediately by the contractor at the direction of the

B. The Contractor shall be hable to may all sadded areas until Ovner acceptance of the

END OF SECTION

SECTION OZBII - LANDSCAPE IRRIGATION

PART 1 - GENERAL LOI SUMMARY

A. Section includes

I. Pipe and fittings, valves, sprinkler heads, emitters, bubblers and accessories. 2. Control system.

B. Related Sections:

I. Conditions of Contract and Division 1- General Requirements govern provisions of this

Section 02200 — Earthworks.

Section 02930 - Soddma.
 Section 02950 - Trees, Plants and Ground Covers.
 Division 16: Electrical Service.

1.03 REFERENCES A. ANSI/ASTM D2564 - Solvent Cement for Poly Vinyl Chloride (PVC) Plastic Pipe and Fittings.

B. ASTM B32 - Solder Metal. C. ASTM 842 - Seamless Copper Pipe, Standard Sizes.

D. ASTM 888 - Secmless Copper Water Tube.

E. ASTM D2235 — Solvent Cement for Acrylonitrie — Butadiene — Styrene (ABS) Plastic Pipe and

F. ASTM D2241 (PVC) Plastic Pipe (SDR-PR). SDR-15, PE 3408 PolyFlexible. G. FS 0-F-506 - Flux, Soldering; Paste and Liquid.

H. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum). 1.04 SYSTEM DESCRIPTION

A. Electric solehood controlled underground regation system, with pressure blow-out drain.

B. Source Power: 120 volt, 5 A., Single phose. C. Low voltage Controls: 24 volt, 2 A.

1.05 SUBMITTALS

A. Shop Drawings: Indicate piping layout to water source, location of sleeves under povement, location and coverage of sprikler heads, components, plant and landscaping features, site structures and schedule of fittings to be used. Plan shall include design calculations including pipe sizing, pressure loss, and pressure at base of heads. Drowing must be stamped approved by landscape architect before proceeding with any work.

B. Priduct Data: Provide component and control system and vring diagrams.

C. Samples: Provide one outlet of each type with housing. Accepted samples may not be used 1.06 DESIGN STANDARDS AND CRITERIA

A. Irrigation design shall provide 100% coverage of all planting beds and sodded/seeded areas B. Minimum precipitation rate:

1. 1.5 nches/hour - spray head zones

C. Design pressures: At last head in circuit, minimum 30 P.S.I. at base of head for sprays, 40 P.S.J. at base of head for rotors.

D. Design shall separate sadded/seeded areas from planting bed areas with separate zones to prevent overwatering/undervatering of different moisture requirements. 1.07 OPERATION AND MAINTENANCE DATA

A. Provide instructions for operation and maintenance of system and controls, seasonal activation and shutdown, and manufacturer's parts catalog

B. Provide schedule indicating length of time each valve is required to be open to provide a 1.08 QUALIFICATIONS

A. Manufacturer: Provide underground projection system as a complete unit produced by a single acceptable manufacturer (see Part 2), including heads, valves, controls and accessorie B. Installer: Company specializing in performing the work of this section with minimum three

LOG RECULATORY REQUIREMENTS A. Conform to applicable local and state lovs and ordinances, and with all the established codes

B. Arrange for, obtain and pay for necessary permits, bonds and fees. LIO EXAMINATION OF SITE

A. Verify site conditions. The submission of the Contractor's proposal shall be considered evidence that a site examination has been made.

1.11 PRE-INSTALLA*TION CONFERENCE*

A. Convene one week prior to commencing work of this Section, 12 FIELD MEASUREMENTS

A. Verify that field measurements are as indicated on shop drawings.

1.13 COORDINATION

A. Coordinate the work with site backfilling, site grading and delivery of plant material. B. The contractor shall confine his operations to the areas to be improved and to the area allotted him for material and equipment storage.

PART 2 - PRODUCTS 2.01 MANUFACTURERS

A. Acceptable manufacturers

B. All materials shall be new first class, especially designed for the intended use.

2.02 CONTROLLER BOX A. Contractor to the new system into exacting controller.

A. Pressure man piping on the supply side of the zone valves or lateral piping greater than \vdash 1/2" diameter shall be class 160 PVC or equal. All littings shall be solvent welded, schedule O socket type PVC. All solvent cement shall be compatible for PVC pipe and fittings and used in accordance with manufacturer's specifications. Solvent cement shall be suitable for

B. Lateral piping less than 1-1/2" diameter on the discharge side of the zone valves shall be 100psi polyethylene pipe or equal. Fittings shall be nylon or H-Max with staniess steel clamps or

A. Sleeves to be installed under drives and sidevalks and shall be class 160 PVC or equal and of the appropriate size and depth to accommodate pipho

B. Sleeves shall extend beyond the edge of paving or construction by 12" minimum.

C. The contractor shall submit a sleeving plan and necessary PVC conduit to appropriate

D. Sleeves should be held a minimum of 13 below surface.

A. A 3/4 Bross Quick Coupler Valve shall be provided to writerize the system by the blowout method, including two valve keys. B. Automotic Remote Control Valves shall operate each zone and shall be sized as per

manufacturer's recommendations. Valves shall be housed in AMETEK or equal locking valve box with cover marked with the zone number. Valves shall be capable of being run manually. C. Backflow Preventers shall be pressure or reduced pressure depending upon the designed vater pressure for this area and location of vater source. Backflow to be Febro or approved equal and installed per manufacturer is quidelines and city/state codes. Backflow preventer is to be located in the building unless otherwise noted. Submit type of backflow preventer to be used to Landscape Architect for approval.

A. Sprinkler Heads shall be of the appropriate type as recommended by the manufacturer.

as required to comply with manufacturer's design pressure, specified design pressure and

A. Color coded control whe shall be Underwriter's Laboratory 14 gauge min, whe approved for A. The contractor shall be responsible to properly size and provide, if necessary, a booster pump

PART 3 - EXECUTION

city/state codes.

3.01 PROTECTION A. Protect trees, shrubs, lawns, sidewalks, drives, curbs and other features on or adjacent to the

A. All moterial shall be installed in accordance with local trade practice and codes and in 3.03 EXAMINATION

A. Verify site conditions.

B. Verify location of existing utilities.

C. Verify that required utilities are available and that adequate water pressure is available and in proper location, and ready for us-3.04 WATER SUPPLY

A. The into existing main line as indicated on drawings.

B. Install the imposion system from the appropriate source in the building and take the system from the water source through the building wall to the ste. 3.05 TRENCHING

A. Trench Ste:

 Mnimum Width: 6 inches.
 Mnimum Cover Over Installed Supply Piping: 20 inches.
 Mnimum Cover Over Installed Branch Piping: 12 inches. 4. Minimum Cover Over Installed Outlet Piping: 12 inches

B. Trench to accommodate grade changes and slope to drain: C. Maintain trenches free of debris, material, or obstructions that may damage pipe

D. PVC Mans and view must be trenched and installed together in a single trench. Pulling by vibration play will be accepted for circuit pipe only. E. Install a 6" base of pea gravel or smilar dramage backfill at all valve boxes.

3.06 INSTALLATION A. Install pipe, valves, controls, and outlets in accordance with manufacturer's instructions. install locations finder tape over supply lines.

B. Connect to utilities.

C. Set outlets and box covers at Insh grade elevations. D. Provide for thermal movement of components in system

E. Use threaded cut-off reer for reers to each outlet F. Install control wring in accordance with Division 16. Provide 10 inch expansion call at each valve to which controls are connected, and at 100 ft intervals. At each connection to the

valve, sufficient slock shall be provided to facilitate service. There shall be no splices

between valve boxes. Contractor to comply with all applicable state and local electrical

G. After piping 6 installed, but before cutlets are installed and backfilling commences, open valves and flush system with full head of water.

H. Coordinate pipe installation with Division 15 and conduit installation

I. Piping shall be securely copped at the end of each days work to prevent entrance of Foreign 3.07 FIELD QUALITY CONTROL

A. Prior to backfilling, test system for leakage at man piping for whole system to maintain 100

B. System to acceptable if no leckage or loss of pressure occurs during test period. 3.08 BACKFLLING A. Provide 3 inch sand cover (passing a No. 4 sieve) over piping.

B. Bockfill moterial shall be free from rock, large stone or other unsuitable substances. Backfilling of trenches containing plastic pping shall be done when pipe is cool to avoid excessive contraction. All backfill material will be compacted in 6' layers as it is brought up to finsh grade as to insure that no setting occurs. Compact using vater. Protect pping fro

3.09 ADJUSTING

A. Adjust control system to achieve time cycles required. B. Adjust head types to prevent as much as possible any overspray onto valks and roadways. No apray is permitted on buildings.

C. Adjust head types for full water coverage as directed. D. Escation of Heads: Shop drawing design location is approximate. Make minor adjustments as

3.11 DEMONSTRATION

necessary to avoid plantings and other obstructions

A. Provide system demonstration. B. Instruct Owner's personnel in operation and maintenance of system, including adjusting of sprinkler heads. Use aperation and maintenance material as basis for demonstrati

3.12 PROJECT RECORD DOCUMENTS A. Record actual locations of underground irrigation system including head locations. Submit for approval before final payment is issue

B. A copy of records of aspectans and tests, as well as records of corrective actions taken. shall be furnished to the landscape architect by the contractor 3.13 EXTRA MATERIALS

A. Furnish extra components

I. Two sprinkler heads of each type and size. 2. Two valve keys for nanual valves 3. Two valve box keys.

 Two keys for volve markers. 5. Two wrenches for each type head core and for removing and installing each type head. 3.14 CUARANTEE

A. For a period of one year from date of final acceptance of the work performed under this contract, the Controctor shall promptly furnish, without cost to the Owner, any and all parts which prove defective in material or workmannship. In the fail, following the matellature, the Controctor shall draw the system for writer and the following spring shall put the system back into occuration without cost to the Owner. 3.15 CLEANING PROCESS

A. The Contractor shall at all times keep the premises on which the work is being done, and the adjoining premises, clean of rubbish caused by his work.

SECTION 02950 - TREES, SHRUBS AND GROUNDCOVER PART I - GENERAL

I.OI SUMMARY A. Section includes: Excavation below grade for trees and shrubs. Planting soil.

. The furnishing, planting, vrapping and pruning of plant materials.

5. Edgng.6. Mulching.7. Clean—up.

B. Related Sections: 1. Conditions of Contract and Division 1 - General Requirements govern provisions of this section.
2. Section 02811 - Irrigation System
3. Section 02930 - Sodding

C. Unit. Prices

a. Provide a lump sum bil price proposal for all materials, labor, incidental items, maintenance and quarantee required for complete planting of trees, shrubs and

1.02 REFERENCE A. Minnesota Department of Transportation, Standard Specifications for Construction, 1995 B. American National Standards Institute (ANSI): 260.1-1986, American Standard for Nursery

C. American Society for Testing and Materials (ASTM): D 2607-69; Peats, Masses, Humas and D. Federal Specification (Fed. Spec.): 02-F-24ID; Fertilizers, Mixed, Commercial.

I.03 SUBMITTALS A. Plant installation schedule: Plant installation schedule shall be submitted a minimum of 30 days before beginning plant installation. Schedule shall specify planting season (spring or all), dotes, locations, and plant materials to be installed. Once accepted, revise only as approved in writing, after documentation of reasons for delays.

B. Substitutions will not be permitted. If proof is submitted that any plant specified is not

obtainable, a written proposal will be considered for use of the nearest equivalent size or variety with an equitable adjustment of contract price.

1.04 QUALITY ASSURANCE A. Codes: Plant materials shall comply with local, state and federal laws relating to inspection for diseases and insect infestation.

.B. Grading Standards: Plant stock shall conform to the code of standards set forth in the current edition of American Standards For Nursery Stock (ANSI) C. Plant Names and Labels: The namenclature used in the Drawings and Specifications conforms, with few exceptions, to that of the current edition of Standardized Plant Names as adopted by the American Joint Committee on Horticultural Nomenclature.

E. Labeling: Label at least one tree and one shrub per shrub bed of each variety with a securely ottached waterproof tag bearing leable designation of botanical and common name F. Inspection: The Landscape Architect may respect trees and shrubs (at place of growth or at ste before planting) for compliance with requirements for genus, species, variety, are and quality. Landscape Architect relians right to further inspect trees and shrubs for size and condition of balls and root systems, meets, injuries and latent defects, and to reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from project site.

D. Workmen: Landscoping work shall be performed by personnel familiar with planting procedures, and work shall be corried out under the supervision of a qualified planting 1.05 DELIVERY, STORAGE AND HANDLING

A. Notify Landscape Architect in advance of delivery of trees, shrubs and other plant material B. When shipment of plant material is made by truck, pack to provide adequate protection against almate and breakage during transit and tie to prevent whipping. Cover tops to

C. Deliver all packaged material in original, undamaged containers. Packaging to clearly identify manufacturer, brand, name, analysis of contents and net veight D. Deliver plant naterial direct from nursery. Heel-in immediately upon delivery if not to be planted within four hours, covering with most sof, mulch or other approved medium to protect from drying. Store plants in shade and protect from weather.

E. Do not drop plant materials or pick up balled plants by stems or trunks. F. Handle packaged materials in such a manner as to prevent contamnation or spilage.

G. No plant shall be bound with wire or rope so as to damage the bank or spread of the

H. Apply anti-desiccont using power spray to provide an adequate film over trunks, branches, stems, twigs and folloge. If deciduous trees or shrubs are moved in full-leaf, spray with anti-desicant at nursery before moving and again 2 weeks after planting. Spray conferous plants that are planted in the fall. 1.06 JOB CONDITIONS

A. Proceed with the complete landscape work as rapidly as portions of site become available,

B. Utilities: Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required. Mantan grade stakes set by others until removal is mutually eareed upon by both parties concerne C. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fil, adverse dramage conditions, or obstructions, notify Landscape Architect before planting.

D. Planting operations shall be conducted under favorable weather conditions during either the

Spring planting season, from time ground has thosed to June 15, or the Fall planting season, September 30 until November 15. During the Fall planting season conferous material planting shall be conducted August 15 to October 1. Coordinate planting with specified maintenance periods to provide maintenance up to date of Owner's accept E. Coordnation with Lawns: Plant trees and shrubs after final grades are established and pror to planting of lawns, unless otherwise acceptable to Landscape Architect. If planting of trees and shrubs occurs after lawn work, protect lawn areas and promptly report damage to lowns

F. Contractor shall be responsible for coordinating the natallation of the underground ringation system. Refer to specification 02811.

PART 2 - PRODUCTS

2.01 PLANTING SOIL

2.02 PLANT MATERIALS

A. Planting soil shall be fertile, frieble natural loom containing a liberal amount of humas and be capable of sustaining vigorous plant growth. Planting soil is to be of even consistency and camposed of 1 lb. of 5-10-5 commercial fertilizer per cubic yard of planting soil and 75% fine clay foom, 15% peat and 10% well rotted cow manure. The mixture shall be free from hard pock, subsof, stones, rubble, chemicals,

A. Decidious Trees: Provide trees of height and caliper isted scheduled or shown and with branching configuration recommended by ANSI ZEO. I for type and species required. Provide single stem trees except where special forms are shown or listed

B. Deciduous Shrubs: Provide shrubs of the height shown or listed and with not less than

minimum number of cones required by ANSI 260.1 for type and height of shrub required. I. Provide balled and burtapped (B & B) deciduous shrubs. C. Conferous and Broad-leafed Evergreens: Provide evergreens of sizes shown or listed. Dimensions indicate minimum spread for spreading and semi-spreading type evergreens and

height for other types, such as globe, dvarf, cone, pyramidal, broad up—right, and columnar. Provide normal quality evergreens with vell—balanced form complying with requirements for other size relationships to the primary dimension shown. . I. Provide balled and burlapped (B & B) evergreens

I. Provide boiled and burigoped (B & B) deciduous trees.

2.03 DIGGING AND HANDLING A. Protection from extremes in exposure and rough handing shall be provided for all plant moterials during transport and storage. All precautions customery in good trade practice shall

be taken in preparing plants for transplanting, in accordance with the American Standard For Nursery Stock. Workmanship that Fails to meet the highest standards will be rejected. B. All plant materials shall be assembled in one location on the job site to permit inspection and approval by the Landscape Architect. The Contractor shall notify the Landscape Architect 48 hours prior to planting so that a nutually agreeable time may be arranged for inspection. Stock with broken root boils or loose containers, and stock which shows evidence of being root bound, overgrown or recently connect, or n the opinion of the Landscape Architect is domaged or improperly cored for, shall be removed from the site immediately and replaced out

C. Dig balled and burdapped (B & B) plants with firm natural balls of earth, of sufficient diameter and depth to include oil forcus and feeding roots. No plants moved with a ball will be occepted if the ball is cracked or broken before or during planting operations except upon special approval of the Landscape Architect.

D. Roots or balls of all plants shall be adequately protected at all times from sum and drying

E. All balled and burlapped plants which cannot be planted immediately upon delivery shall be set on the ground and shall be well protected with soil, wet mass, or other acceptal material. Bare rooted plants which cannot be planted immediately shall be protected with soil, wet moss or heeled in trenches immediately upon delivery

F. Plants shall not be pruned prior to approval by the Landscape Architect.

the Contractor a expense with another plant meeting the original Specific

2.04 MISCELLANEOUS LANDSCAPE MATERIALS I. Steel Edging: $3/16^{\circ} \times 4^{\circ}$ Ryerson commercial steel edging (or approved equal) of size shown on drownes februated in sections with loops pressed from or welded to loce of

edging sections and stakes with manufacturer's standard green or black pant. Install in B. Stakes and Braces: Wood stakes and braces shall be common lumber of the sizes in the

sections at 2'-6" o.c. to receive stakes. Provide tapered steel stakes 16' long.

Tree Size Brace Stakes Guy Stakes " - 3-1/2" 2" X 2" X 9'-0" 2" X 2" X 2'-0"

4° & over Not applicable Not applicable C. Guy Wres: Guy wree shall be a good commercial quality of galvanized wre. Wre used to quy trees up to four inches shall be No. 12 gouge; were used to guy trees four inches and over

D. Hose collars: Hose collars shall be new two ply fabric bearing garden hose not less than 1/2" E. Tree Wrapping Material: Material shall be first quality four inch wide rolls of bituminous impregnated tope, corrugated or crepe paper, specifically manufactured for tree wrapping. and having qualities to resist insect infestation

F. Mulch: Organic mulch free from deleterious materials and suitable for top dressing of trees,

G. Mantenance strip, planting adjacent to building and parking lot blands with yeed fabric 1 -1 buff Limestone (to match existing)
 Landscape Pobric: DeWitt ProWeed Barrier or equal A. Contractor shall supply water required as necessary to assure that plant material is uniformly

mostened and mantaned in a most condition until the work has been approved by the Landscape Architect and responsibility for mantenance accepted by the Owner. PART 3 - EXECUTION 3.01 OBSTRUCTIONS BELOW GROUND

3.02 PERCOLATION TEST

shrubs or plants and consisting of the following

A. In the event that rack or underground construction work or obstructions are encountered in ony plant pit excavation work to be done under the Contract, alternate locations may be selected by the Londscope Architect. Where locations cannot be changed the abstructions shall be removed to a depth of not less than three (3) feet below grade and no less than six (6) inches below bottom of ball or roots when plant is properly set at the required grade. The Contractor shall be responsible for the removal of such rock or underground obstructions

due to poor sois, compocted sois or other conditions will result in lovered plant perform B. The contractor shall do planting pits per details and specifications. After planting pits have been properly dug as outlined in the details and specifications, the contractor shall fill one pit in each group of plantings two-thirds full of water. Upon the clapse of one hour of time if any water remans standing in the planting pit, the contractor shall install a planting pit dramage

A. Tree planting pts which fail to meet percolation tests shall be installed with a dramage system

A. Contractor shall perform a percolation test for any planted area where insufficient dramage

3.03 PLANTING PIT DRAINAGE SYSTEM

1. Tree planting pits shall have a 4 diameter augured hale diffled to a minimum of 42 . 2. Augured hale shall be filled with 3/4 diameter drain rock. 3. Drain hole shall then be covered with a 6 diameter piece of filter fabric staked or stapled in place to prevent distodang during planting operations. 4. Contractor to perform another percolation test. If water remains standing after one hour of time, additional dramage holes shall be installed in the planting pit. 3.04 TREE PLANTING

A. Layout: All tree locations will be staked by the Contractor in the field to conform to the Drawings. Locations shall be approved by the Landscape Architect prior to diagna and placement. No material shall be planted without approval of the Londscope Architect. Where overhead obstructions are encountered, tree relacation shall be designated by the Londscope

B. Planting Pits: Shall be as per planting details.

e filled in to the level of the finished grade.

C. Planting Sof Preparation: Mix bone meal per the manufacturer's label instructions or l lb. of 5-lO-5 commercial fertizer per cubic yard of topsof and then one part peat mass with five ports topsof. Mix all components thoroughly before bookfiling. Mix two thirds of planting soil with 1/3 existing soil for all planting pits.

D. Setting of Trees: before setting the trees, pits shall be backfilled with topsoff to a depth of tvelve (12) notes, thoroughly comped and vatered. All plants shall be placed at such a level so that after settlement, the natural relationship between the original grade at which the plant grew, and the present one shall be the same. Trees shall be planted plumb, arented for desired effect as directed by the Landscape Architect. Planting sail shall be tamped under and around the base of each ball to fill all vaids and shall be placed in 6 to 8 nch layers, each thoroughly tamped and puddled. Burlap shall be removed from the top of balls and adjusted to prevent or pockets. No burlop shall be pulled from under the boils

I. Before setting the trees, the bottom and sides of the tree as a one to comfind to doubt of The scorfied soil shall be mixed with the planting soil to provide a transition soil zone between the planting soil and existing soil. 2. All plants shall be placed at such a level so that after settlement, the natural relationship between the original grade at which the plant grey, and the present one shall be the same. Trees shall be planted plumb, arented for desired effect as directed by the andscape Architect. 3. String/rope holding the burlap in place shall be cut from around trunk. Burlan shall be removed from the top of balls and adjusted to prevent ar pockets. No burlop shall be pulled from under the balls. When the hole has been 2/3 backfilled with "planting" soil in successive 8" layers, vater shall be poured in filing the hole, and allowed to sock away so that all words or an pockets under or around the roots are eliminated. After the vater has soaked away, the hole shall be completely backfilled with "planting soil." After the backfill settles, additional soil shall

5. Dish top of bookfil to allow for mulching.
6. Mulch pits, trenches and planted areas. Provide not less than 2° thackness of shredded hardward mulch except where noted on drawing to receive 4° of rock mulch and finish level with adjacent finish grades.

3.05 PRUNING

3.07 SHRUB PLANTING

3.09 MAINTENANCE

A. All trees shall be neatly pruned after planting in accordance with the best standard practices The tree shows be pruned to preserve its natural form and character and in a manner depropriate to its porticular requirements. In general, no more than one third of the decidious trees shall be removed be thinning or shortening of branches and no leaders shall be cut. All pruning shall be done with clean, sharp tools. All cuts over 1/2 nch in dometer shall be immediately covered with an approved tree point having an asphaltic base which dries and hardens after application. All trees shall neet specified size, quality, and all other requirements ofter prunnq. 3.06 WRAPPING

A. All decidings trees (except Hackberry, Brich and Poplar) shall be vrapped with naterial as specified. The vrapping bondage shall be secured at top and bottom of the trunk. The bandage shall cover the entre surface of the trunk to the height of the first branches. Bandaging shall start at the base of the tree unless—otherwise specified and be made secure by parting with approved type tree part having on asphaltic base which dries and hardens

A. Layout: Beds and an locations shall be approved by the Landscape Architect in accordance with the plant list and tentouve locations shown on the Drawings. The general form of the planting bed shall be staked out and excavating performed within the stakes B. Planting Pits: Planting pits shall have vertical sides. The diameter of the pits shall be one foot greater than the dameter of the ball of the shrub. The depth of the pit shall be enough to accommodate the ball or roots of the shrub when the shrub is set to finish grade, allowing for six inches of compacted planting soil below the roots of the the roots o

C. Setting of Shrubs: All materials shall be planted in the same relation to the finish grade as

they had before transplanting. Plants shall have planting sail (with bone meal or 5-10-5) tamped under the root balls. All burlap, ropes, stakes, etc., shall be taken off the sides and tops of B & B shrubs and removed from the hole before bockfiling, but no burlop shall be pulled out from under the balls. Mix two thirds planting soil with one third existing for all D. When the hole has been 2/3 backfilled with "planting sai" in successive 8" layers, water shall be poured in filling the hole, and allowed to sook away so that all voids or at packets under or around the roots are eliminated. After the vater has sooked away, the hole shall be

completely backfilled with "planting soi". After the backfill settles, additional soil shall be filled in, to the level of the finish grade. A shallow source of soil shall be formed around the edge of E. Prunina: All shrube shall be neatly prumed or thinned immediately after planting in accordance with best standard practices. Broken or body brused bronches shall be removed with a clean cut. Each shrub shall be pruned to preserve its natural form or character and in a morner appropriate to its particular requirements. All pruning and thinning shall be done with sharp, clean tools. All cuts over 1/2 nch shall be painted with approved tree paint having an

F. Multh: Type shall be indicated on the Drawings and applied to all shrub beds and pits to a depth of 4 inches unless otherwise specified A. Soi: Install planter soil mix. After setting occurs, soil shall be approximately 2 below top og

A. The Contractor shall be required to make periodic checks on the total project to make certain that the native has properly valenced, cultivated, pruned, and total divise and stakes are in progress of the nationals, which such time as the work is approved by the Landoupe Architect.

are in proper adjustment, and that the sum of all conditions are contributing to the satisfactory

A. Inspection of this work will be made by the Landscape Architect or Architect at the conclusion

of the planting period upon written notice by the Contractor at least five days prom to anticipated date. Condition of shrubs and trees will be noted and recorded for reference at

asphaltic base. All shrubs shall neet specified size, quality and all other requirements after

3.10 PLANT WATERING AND MAINTENANCE A. The Contractor shall be required to make periodic checks on the total project to make certain

B. The Contractor is responsible to maintain and water the plant material until such time as the C. The Contractor shall monitor the planting material to assure that, if the site σ impated, overvatering does not occur. Contractor shall be responsible for providing the owner a vatering schedule for trees, shrubs and groundcover.

B. After inspection, the Contractor will be notified in writing by the Landscope Architect or Architect if there are any definences of the requirements for Owner acceptance of the var

3.10 INSPECTION AND ACCEPTANCE

end of quarantee period.

3.11 GUARANTEE AND REPLACEMENT A. Plants and trees shall be quaranteed for one year after Owner acceptance and shall be alive

and in satisfactory condition at the end of quarantee period. Such quarantee excludes

B. At the end of the quorantee period, inspection will be made by the Landscope Architect or

Architect upon written notice by the Contractor at least five days before the anticipated date.

Any shrub or tree required under this Contract that is dead or not in satisfactory condition, as determined by the Landscope Architect, shall be removed from the site, and shall be replaced as soon as conditions permit during the normal planting season $\mathcal{C}.$ If there is dispute regarding the condition and satisfactory establishment of a rejected plant,

the Contractor may elect to allow such plant to remain through another complete growing

season at which time the rejected plant or tree shall be replaced if found to be dead,

D. All replacements shall be shrubs and trees of the same kind and size as specified in the plant list. Replacement costs shall be borne by the Contractor. E. Replacement plantings required at the end of the quarantee period are not to be quaranteed. These trees and shrubs are subject to inspection and rejection by the Landscape Archite before and after planting. 3.12 CLEAN UP

A. Any soil, manure, peat or similar material which has been brought onto paved areas by

houling operations or otherwise shall be removed promptly, keeping the area clean at all

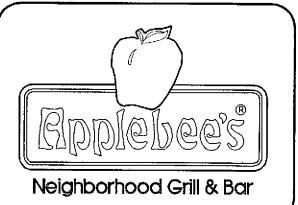
 $\boldsymbol{\beta}.$ All ground area disturbed as a result of planting operations shall be restored to their original

times. Upon completion of the planting, all excess soil, stones, and debris which have no

previously been cleaned up shall be removed from site or disposed of.

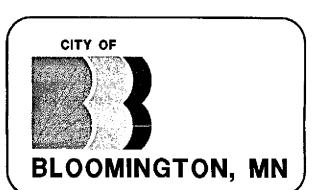
END OF SECTION

condition or to the desired new appearance.



OUNERS/DEVELOPERS:

APPLEBEE'S INTERNATIONAL, INC. 4551 W. 107th Street Suite 100 Overland Park, Kansas 66207 (913)967-4005 fax(913)341-1695



BID ISSUE

NOTES:

LANDSCAPE ARCHITECTS: Damon Farber Associates 253 Third Avenue S. Minneapolis. Minnesota 55415 (612)332-7522 fax(612)332-0936 e-mail: dfainc@aol.com

TITLE SHEET EXISTING CONDITIONS PLAN SITE PLAN GRADING & EROSION CONTROL PLAN UTILITY PLAN ENLARGED PLAN CONSTRUCTION DETAILS CONSTRUCTION DETAILS SITE ELECTRICAL PLAN LANDSCAPE PLAN LANDSCAPE SPECIFICATIONS IRRIGATION PLAN

6/25/97 BID ISSUE Quality Management Reviews y: SARA MORE Date: 6/24/97 CERTIFICATION: I hearby certify that the plan was prepared by me, or under my direct supervision and that I am a duly registered Landscope Architect under the laws of Dames Doubers_

Registration #12538

APPLEBEE'S

95% COMPLETE OWNER REVIEW

PROJECT:

Damon Farber

DATE

6/19/97

REVISION

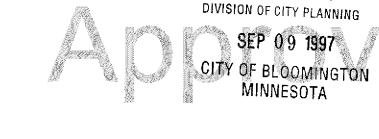
5/01/97 CITY SUBMITTAL

Bloomington, Minnesota

Landform Engineering Company • 926 Twelve Oaks Center 15500 Wayzata Boulevard • Wayzata, Minnesota 55391

 $(612)475-3272 \bullet fax/data(612)475-3159$

info@landform.net L1020BL1.DWG FILE NAME: PROJECT NO. AP97003 LANDSCAPE SPECIFICATIONS



RECEIVED

PART 3 - EXECUTION

2.02 FERTILIZER

rate of 20 pounds per 1000 square feet.

Material passing No. 10 sieve 85%

costs shall be borne by the Contractor.

2. Aluminum sufface: Commercial grade,

Sand: Clean washed, free of toxic materials.

. Perlike: Conforming to National Bureau of Standards PS23.

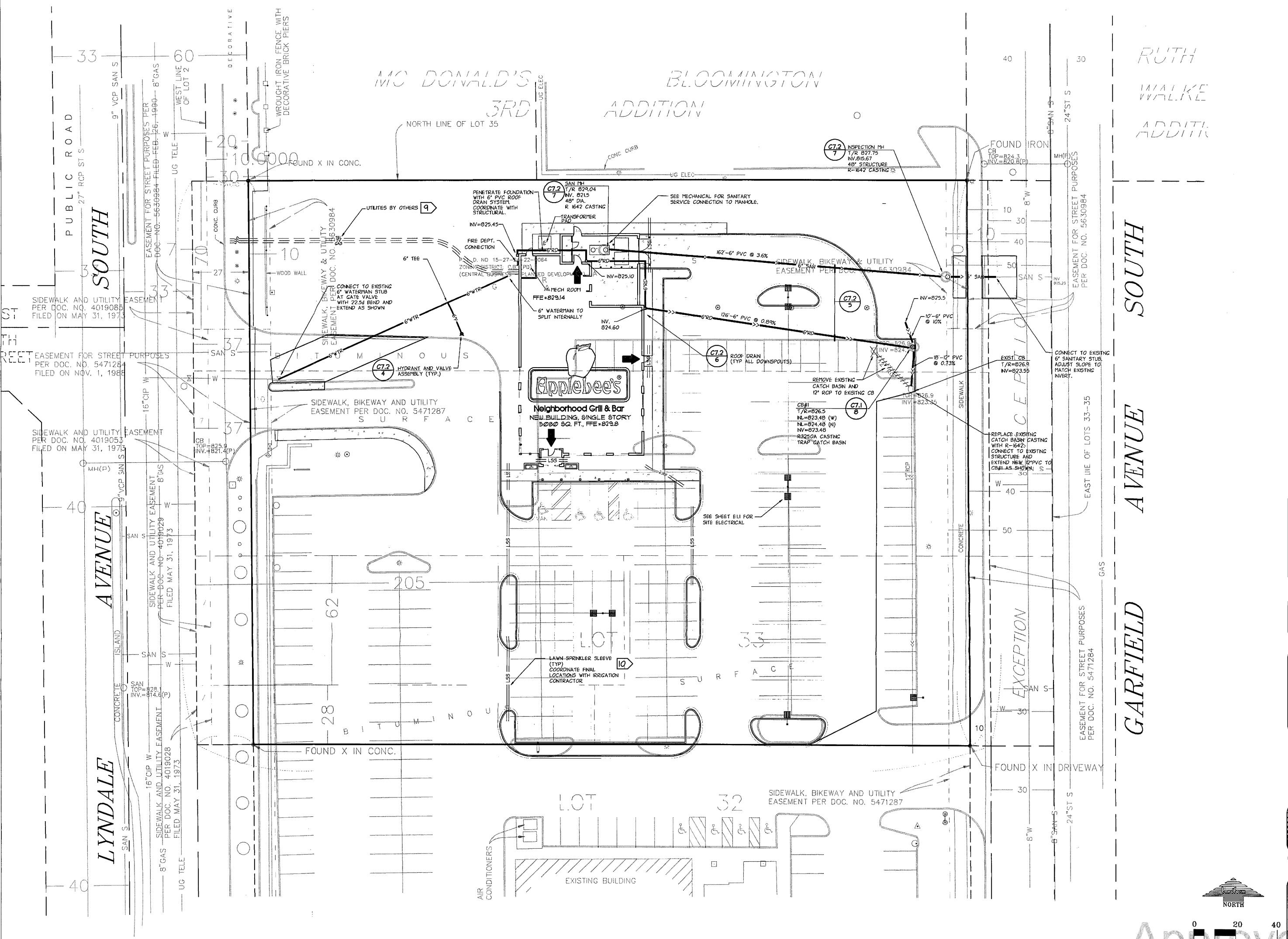
. Vermiculite: Horticultural grade, free of taxic substances.

or anmal poultry manure, texture smilar to shredded peat.

C. Soil Amendments (if required):

Set 40% Sand 40%

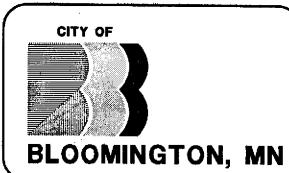
Organic matter 3% pH 6.1%





OUNERS/DEVELOPERS

APPLEBEE'S INTERNATIONAL, INC. 4551 W. 107th Street Suite 100 Overland Park, Kansas 66207 (913)967-4005 fax(913)341-1695



BID ISSUE

- NOTES: .
 I HANTAN 7.5' COVER ON ALL NEW WATERMAN,
- 2. PPE LENCTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR END OF FLARED END SECTION.
- 3. PPE MATERIALS;
 WATERNAN DP CLASS 5?
 WATER SERVICE LS" COPPER DOMESTIC TYPE K"
 SAN SEVER PVC SOR 26
 STORM SEWER 12" RCP CLASS 5
- 4. SEE ELECTRICAL SITE PLAN FOR ADDITIONAL SITE ELECTRICAL INFORMATION.
- 5. ALL CONNECTIONS TO CITY UTILITIES TO BE IN ACCORDANCE WITH CITY OF BLOOMINGTON STANDARDS.
- COORDINATE WITH MECHANICAL DRAWNICS FOR EXACT LOCATIONS OF SERVICE CONNECTIONS AND CONTINUATION OF SERVICES WITHIN BUILDING.
- 7. ADJUST ALL STRUCTURES, PUBLIC AND PRIVATE, TO PROPOSED CRADES WHERE DISTURBED. COMPLY WITH ALL REQUREMENTS OF UTILITY OWNERS.

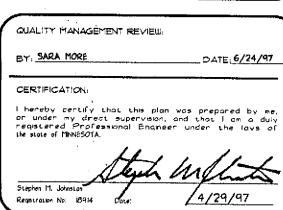
 8. VERFY ALL CONNECTIONS TO EXISTING UTILITY SERVICES PRIOR TO CONSTRUCTION.
- Q COORDINATE WITH ALL INDIVIDUAL PRIVATE UTILITY OWNERS TO PROVIDE ELECTRIC, NATURAL CAS, TELEPHONE, AND CATY SERVICE TO PROPOSEO BUILDING.
- 10 COORDNATE WITH RESCATION CONTRACTOR TO PROVIDE LAWN SPRINGER SLEEVES AS REQUIRED.
- IL CONTACT COPYER ONE FOR EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. ANY DESCREPANCES BETWEEN LOCATED UTILITIES ANT THE EXISTING CONDITIONS PLAN SHOULD BE NOTED AND FORWARDED TO THE ENCINEER.
- SHOULD BE NOTED AND FORWARDED TO THE ENCINEER.

 O OBTAIN ALL NECESSARY PERSONS FOR CONSTRUCTION
 WHICH, OR USE OF PUBLIC RIGHT OF WAY.

BHEET	TITLE
CO.I	TITLE SHEET
CILI	EXISTING CONDITIONS PLAN
C2.1	SITE PLAN
C3.1	GRADING & EROSION CONTROL PLAN
C4.I	UTILITY PLAN
C6.I	ENLARGED PLAN
27.1	CONSTRUCTION DETAILS
27,2	CONSTRUCTION DETAILS
Ы	SITE ELECTRICAL PLAN

LANDSCAPE PLAN LANDSCAPE SPECIFICATIONS IRRIGATION PLAN

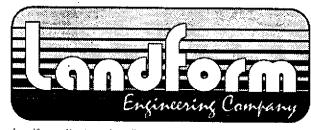
DATE	REVISION	REV
5/01/97	CITY SUBMITTAL	
6/19/97	95% COMPLETE OWNER REVIEW	
6/25/97	810 ISSUE	



PROJECT:

APPLEBEE'S RESTAURANT

Bloomington, Minnesota



Landform Engineering Company • 926 Twelve Oaks Center 15500 Wayzata Boulevard • Wayzata, Minnesola 55391 (612)175-3272 • fax/data(612)175-3159 info@landform.net

