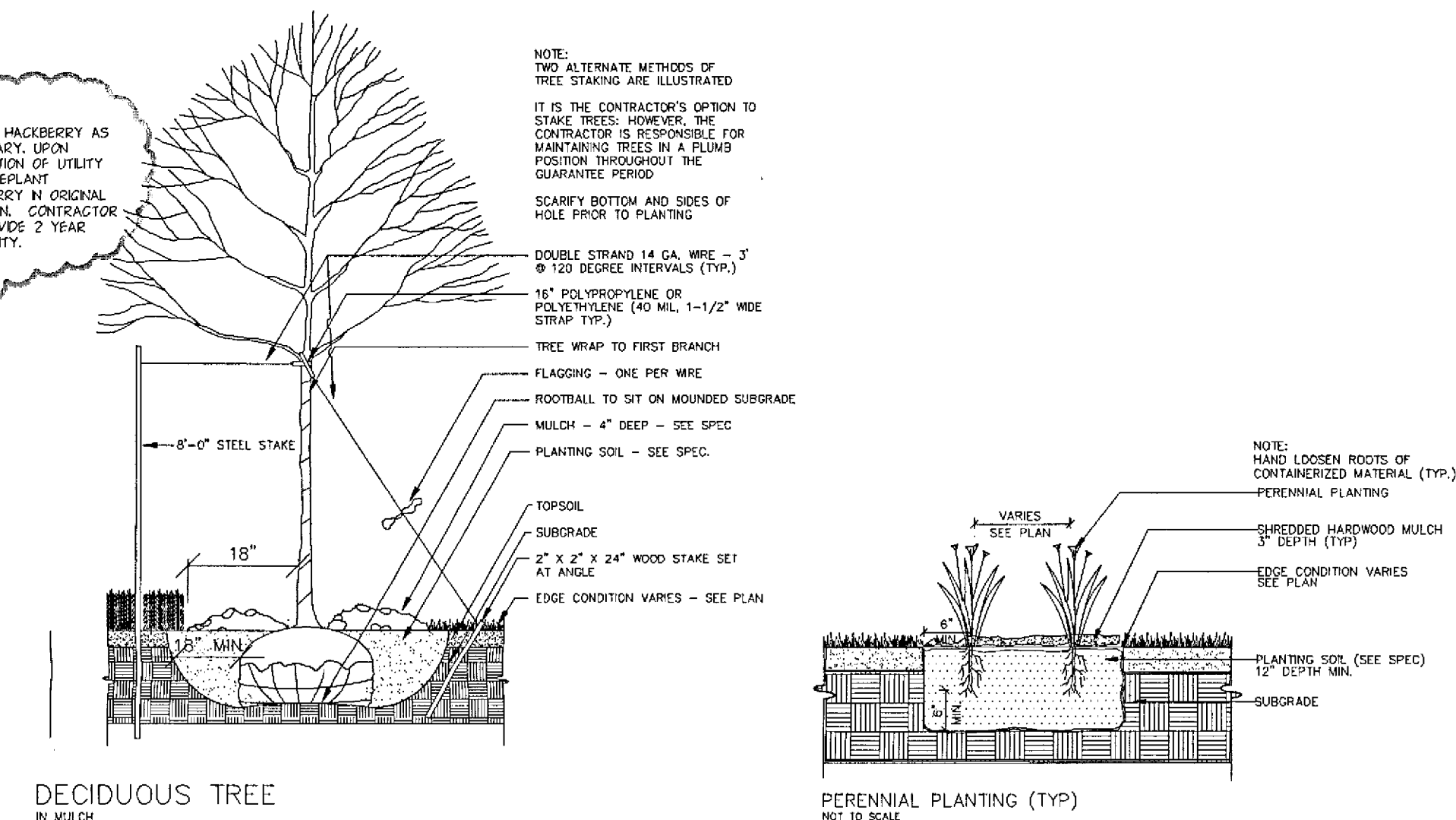
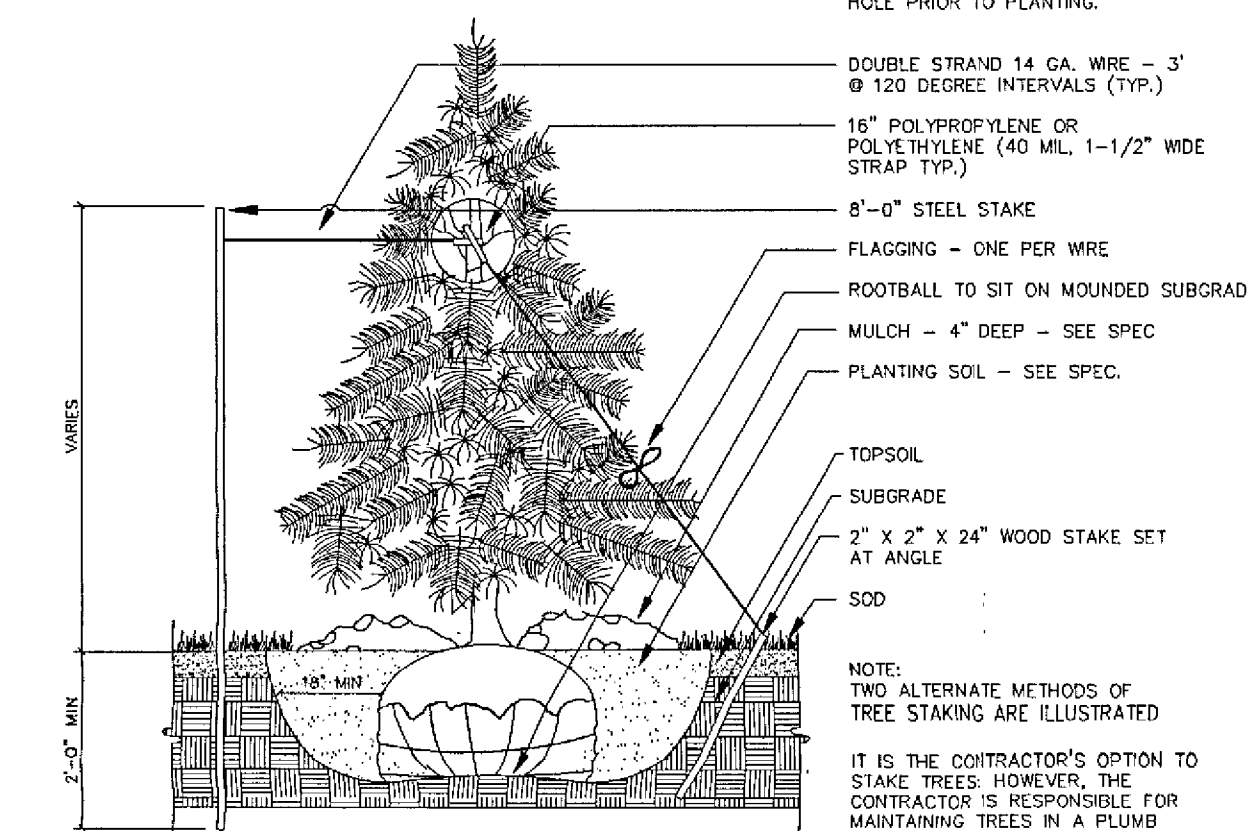


PLANTING DETAILS

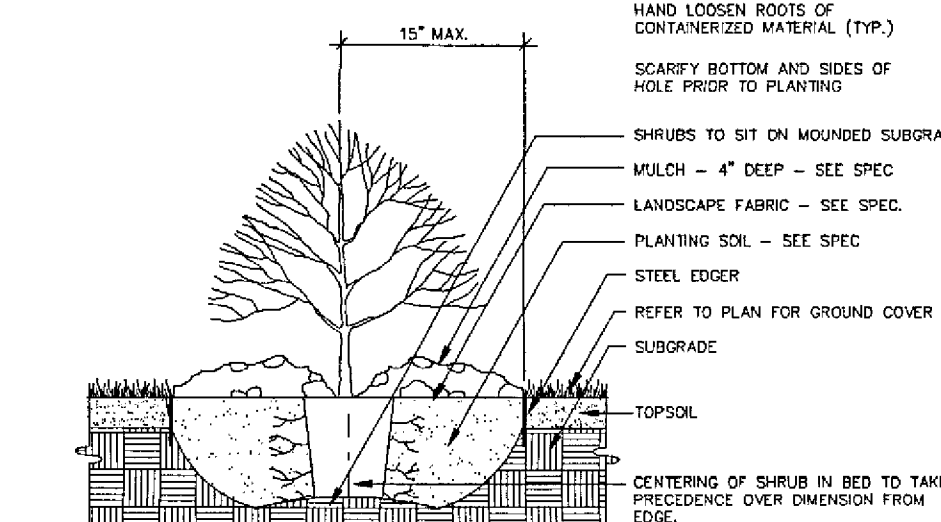


DECIDUOUS TREE
IN MULCH

PERENNIAL PLANTING (TYP)
NOT TO SCALE



CONIFEROUS TREE
IN MULCH



SHRUB
WITH STEEL EDGER

CITY OF BLOOMINGTON, MN
LANDSCAPE PLAN APPROVED
By *Carole Doyle, CA*
Director of Planning
Date *9/11/97*

PLANTING NOTES

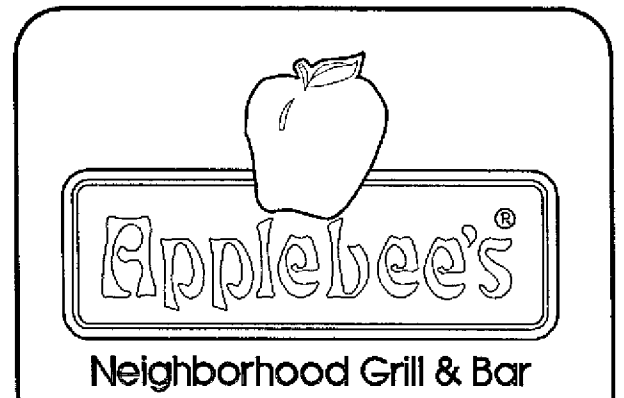
- CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID. HE SHALL INSPECT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
- VERIFY LAYOUT AND ANY DIMENSIONS SHOWN AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT ANY DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN AND/OR INTENT OF THE PROJECT'S LAYOUT.
- ASSURE COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK OR MATERIALS SUPPLIED.
- 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.
- CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF ALL UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION. MATERIAL INSTALLATION BEGINS (MINIMUM 10' - 0" CLEARANCE).
- ALL UNDERGROUND UTILITIES SHALL BE LAID SO THAT TRENCHES DO NOT CUT THROUGH ROOT SYSTEMS OF ANY EXISTING TREES TO REMAIN.
- 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.
- 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.
- FILL/OUT AS NECESSARY TO PROVIDE A 1% MINIMUM GRADE AWAY FROM BLDGS. WITHIN LIMITS OF CONSTRUCTION.
- 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 BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL.
- LANDSCAPE INSTALLATION
- COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.
- NO PLANTING WILL BE INSTALLED UNTIL COMPLETE GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- SOD ALL DISTURBED AREAS.
- WHERE SOD/SEED ABUTS PAVED SURFACES, FINISHED GRADE OF SOD/SEED SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.

- SOD SHALL BE LAID PARALLEL TO THE CONTOURS AND SHALL HAVE STAGGERED JOINTS ON SLOPES STEEPER THAN 3:1 OR IN DRAINAGE SWALES. THE SOD SHALL BE STAKED TO THE GROUND.
- ALL PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN. UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED SHRUB HEIGHT. ORNAMENTAL TREES SHALL HAVE NO Y CROTCHES AND SHALL BEGAIN BRANCHING NO LOWER THAN 3' ABOVE ROOT BALL. STREET AND BOULEVARD TREES SHALL BEGAIN BRANCHING NO LOWER THAN 6' ABOVE FINISHED BUILDING FOUNDATION.
- PLAN TAKES PRECEDENCE OVER PLANT SCHEDULE IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS TAKE PRECEDENCE OVER NOTES.
- ALL PROPOSED PLANTS SHALL BE LOCATED AND STAKED AS SHOWN ON PLAN. LANDSCAPE ARCHITECT MUST APPROVE ALL STAKING OF PLANT MATERIAL PRIOR TO ANY AND ALL DIGGING.
- NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO THE SUBMISSION OF A BID AND/OR QUOTATION.
- ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN THE FIELD. SHOULD AN ADJUSTMENT BE ADVISED, THE LANDSCAPE ARCHITECT MUST BE FIELD.
- 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 ADDITIONAL APPLICATION OF 10-10-10 THE FOLLOWING SPRING IN THE TREE SAIGER.
- ALL PLANTS TO BE INSTALLED AS PER PLANTING DETAILS.
- ALL PLANTING AREAS RECEIVING GROUND COVER, PERENNIALS, ANNUALS, AND/OR VINES SHALL RECEIVE A MINIMUM OF 1" DEPTH OF PLANTING SOIL CONSISTING OF AT LEAST 45 PARTS TOPSOIL, 45 PARTS PEAT OR MANURE AND 10 PARTS SAND.
- 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.
- STEEL EDGER TO BE USED TO CONTAIN SHRUBS, PERENNIALS AND ANNUALS WHERE BED MEETS SOD/SEED UNLESS NOTED OTHERWISE.
- ALL SHRUB BED MASSINGS ADJACENT TO BUILDING AND PARKING LOT ISLANDS TO RECEIVE 4" DEEP STONE MULCH AND FIBER MAT WEED BARRIER ALL OTHER SHRUB BED MASSINGS TO RECEIVE 4" DEEP SHREDDED HARDWOOD MULCH AND FIBER MAT WEED BARRIER.
- ALL EVERGREEN TREES TO RECEIVE 4" DEEP SHREDDED HARDWOOD MULCH WITH NO MULCH IN DIRECT CONTACT WITH TREE TRUNK.
- ALL ANNUAL AND PERENNIAL PLANTING BEDS TO RECEIVE 3" DEEP SHREDDED HARDWOOD MULCH WITH NO WEED BARRIER.
- VERIFY PROPOSED IRRIGATION SYSTEM LAYOUT AND CONFIRM COMPLETE LIMITS OF IRRIGATION PRIOR TO SUPPLYING SHOP DRAWINGS.

- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN IRRIGATION LAYOUT PLAN AND SPECIFICATION AS A PART OF THE SCOPE OF WORK WHEN BIDDING. THESE SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ORDER AND/OR INSTALLATION. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL SODS/SEEDS AND PLANTED AREAS ARE IRRIGATED PROPERLY, INCLUDING THOSE AREAS DIRECTLY AROUND AND ADJUTING BUILDING FOUNDATION.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH A WATERING/LAWN IRRIGATION SCHEDULE APPROPRIATE TO THE PROJECT SITE CONDITIONS AND TO PLANT MATERIAL GROWTH REQUIREMENTS.
- IF THE LANDSCAPE CONTRACTOR IS CONCERNED OR PERCEIVES ANY DEFICIENCIES IN THE PLANT SELECTIONS, SOIL CONDITIONS OR ANY OTHER SITE CONDITION WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR GUARANTEE, HE MUST BRING THESE DEFICIENCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT AND/OR INSTALLATION.
- CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR THE OWNER ACCEPTANCE INSPECTION OF ALL LANDSCAPE AND SITE IMPROVEMENTS.
- 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 OWNER WITH A MAINTENANCE PROGRAM INCLUDING, BUT NOT NECESSARILY LIMITED TO, PRUNING, FERTILIZATION AND DISEASE/PEST CONTROL.
- CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE CALENDAR YEAR FROM THE DATE OF OWNER ACCEPTANCE.
- WARRANTY (ONE FULL GROWING SEASON) FOR LANDSCAPE MATERIALS SHALL BEGIN ON THE DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT AFTER THE COMPLETION OF PLANTING OF ALL LANDSCAPE MATERIALS. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.
- REPRODUCIBLE AS-BUILT DRAWING(S) OF ALL LANDSCAPE INSTALLATION AND SITE IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION INSTALLATION AND PRIOR TO PROJECT ACCEPTANCE.
- UNLESS NOTED OTHERWISE THE APPROPRIATE DATES FOR SPRING PLANT MATERIAL INSTALLATION AND SEED/SOD PLACEMENT IS FROM THE TIME GROUND HAS THAWED TO JUNE 15.
- 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 OUTSIDE THESE DATES IS NOT RECOMMENDED. ANY ADJUSTMENT MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- CONFEROUS 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.
- LANDSCAPE CONTRACTOR SHALL ESTABLISH TO HIS SATISFACTION THAT SOIL AND COMPACTION CONDITIONS ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AT AND AROUND THE BUILDING SITE.

PLANTING SCHEDULE

KEY	QTY	COMMON NAME / SCIENTIFIC NAME	ROOT	SIZE	REMARKS
DECIDUOUS TREES					
A	6	SPRING SNOWCRAB MALUS SP. (SPRINGSNOW)	BB	2-1/2"	FULL FORM
B	1	SUNBURST HONEYLOCUST GLADISTIA TRICANTHOS-SUNBURST	BB	2-1/2"	STRAIGHT, SINGLE LEADER
C	3	ALLEGHANY SERVICEBERRY	BB	6"	MULTI STEMMED, 3 CANE MIN.
D	2	PRARIE FIRE CRABAPPLE MALUS PRAIRIE FIRE	BB	2"	FULL CROWN
CONIFEROUS TREES					
E	2	BLACK HILLS SPRUCE PICEA GLAUCOA DENSATA	BB	6"	FULL FORM TO GROUND
SHRUBS					
F	12	ALPINE CURRANT	POT	24"	SPACE 3'-0" O.C.
G	115	ANTHONY WATERER SPIREA	POT	24"	SPACE 5'-0" O.C.
H	145	CAREFREE BEAUTY ROSE	POT	24"	SPACE 3'-0" O.C.
I	84	MINI JULEP JUNIPER	POT	36"	SPACE 4'-0" O.C.
J	2	WINGED EUNYMIUS	POT	24"	SPACE 3'-0" O.C.
PERENNIALS					
K	96	STELLA D'ORO DAYLILY	POT	4"	SPACE 12" O.C.
L	55	ASSORTED DAYLILY	POT	4"	SPACE 12" O.C.



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

CITY OF
BLOOMINGTON, MN

BID ISSUE

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

SHEET	TITLE
C01	TITLE SHEET
C02	EXISTING CONDITIONS PLAN
C03	GRADING & EROSION CONTROL PLAN
C04	UTILITY PLAN
C05	ENLARGED PLAN
C06	CONSTRUCTION DETAILS
C07	CONSTRUCTION DETAILS
C08	SITE ELECTRICAL PLAN
L01	LANDSCAPE PLAN
L02	LANDSCAPE SPECIFICATIONS
L03	IRRIGATION PLAN

DATE	REVISION	REV.
3/01/97	CITY SUBMITTAL	
5/01/97	FOR CORRECTS OWNER REVIEW	
6/29/97	BID ISSUE	
9/14/97	ADDENDUM #1	Δ

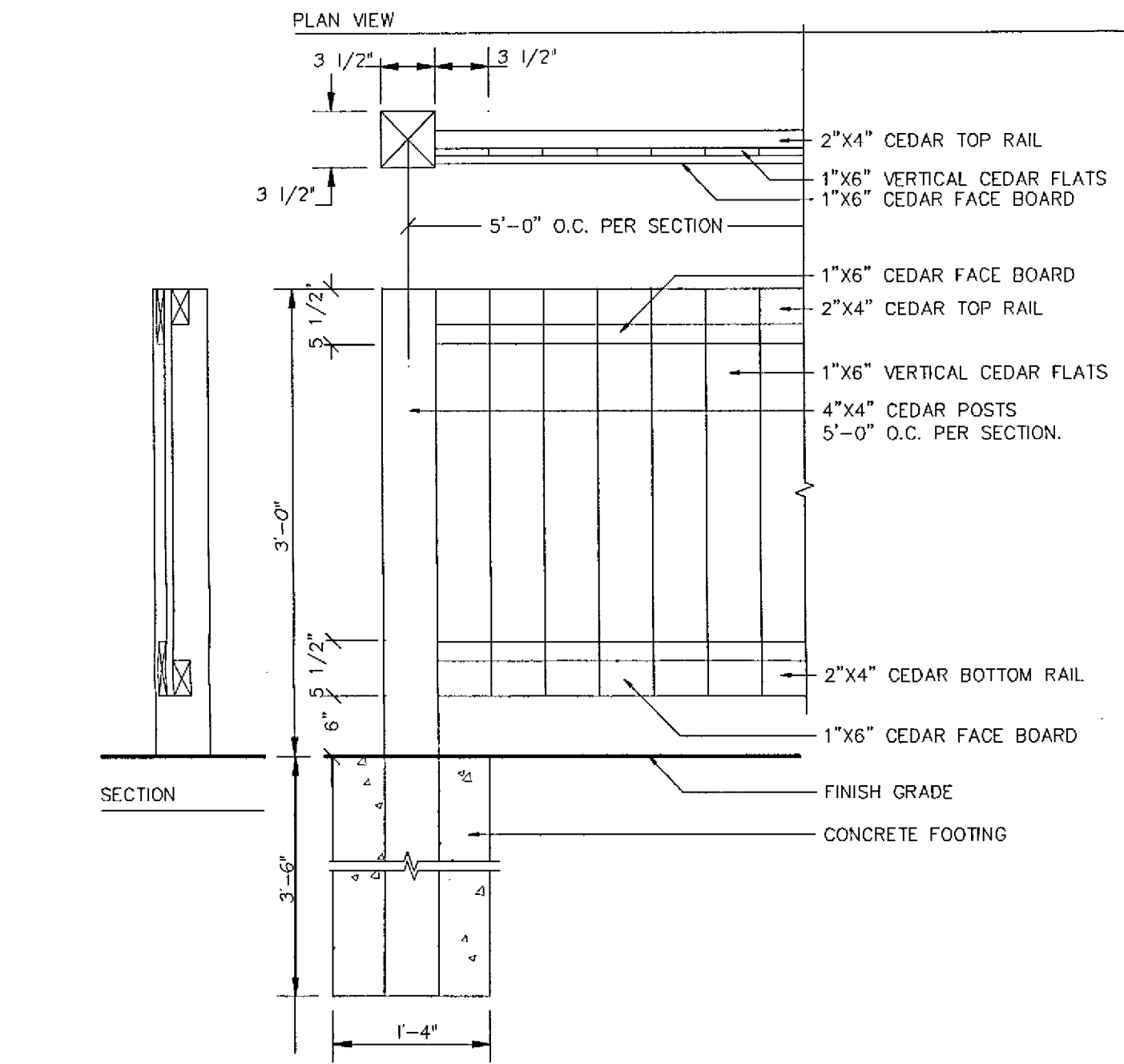
Quality Assurance Review:
By: SARA MORE Date: 6/24/97
CERTIFICATION:
I hereby certify that the plan was prepared by me, or under my direct supervision and that I am a duly registered Landscape Architect under the laws of the state of Minnesota.
Damon Farber Registration #2530

PROJECT :
APPLEBEE'S RESTAURANT
Bloomington, Minnesota

Landform
Engineering Company
Landform Engineering Company • 308 Twelve Oaks Center
15500 Wayzata Boulevard • Wayzata, Minnesota 55391
(612)475-3372 • fax(612)475-3109
info@landform.net

DATE: 3/3/97
FILE NAME: L101BLDING
PROJECT NO: 4931003
RECEIVED
DIVISION OF CITY PLANNING
SEP 09 1997
CITY OF BLOOMINGTON
MINNESOTA
L1.1

SCREEN FENCE DETAIL



WOOD FENCE DETAIL NOT TO SCALE

SPECIFICATIONS

SECTION 07430 - SODDING

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Sodding

2. Sodding and seeding

B. Related Sections:

1. Conditions of Contract and Division 1 - General Requirements govern provisions of the section.

2. Section 07200 - Earthwork

3. Section 07310 - Landscaping Irrigation

4. Section 07450 - Trees, Shrubs and Groundcover

1.02 REFERENCE

A. Minnesota Department of Transportation, Standard Specifications for Construction, 1995 Edition, including all Supplements.

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

C. Federal Specifications (Fed. Spec.), 0-1-F-2410, Fertilizers, Mixed, Commercial.

1.03 PROTECTION

A. Minimize: Carefully mark landmarks, monuments and other reference points, if disturbed or destroyed, have replaced or relocated by a registered surveyor or Contractor's expense.

B. Protect: Contractor shall protect all that is to remain and shall conduct all sodding operations in a manner that will not disturb or jeopardize the surrounding plants. Be deposited on the Driveway as proposed or to finish.

1.04 SUBMITTALS

A. Submit: soil test results to landscape architect prior to beginning of landscape operations.

PART 2 - PRODUCTS

2.01 SOD

A. Sod shall be sodded in rows as classified in the ASPA Guideline Specifications to Sodding. Sod shall be 100% natural sod. Sod grown in peat soils will not be accepted.

B. Sod shall be used in all areas to be sodded, and shall require the following minimum:

Rootstock Name Common Name Mixture Percent (%)

Poa pratensis Kentucky Blue Grass 75

Acceptable varieties include poa, varietal, blue, nugget, touch down, rugby and parade.

C. Sod shall be free from noxious weeds, relatively free from all other weeds and free from roots, stones and any other objectionable materials. Sod soil must remain hard without undue breaking or tearing.

D. Before sod is cut, it shall be raised free of debris and the top surface tamped to a height of approximately 2".

E. Sod 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 moist to withstand exposure and handling during transport operations. If necessary, sod shall be watered before cutting.

2.02 FERTILIZER

A. Fertilizer: Shall be a commercial formula containing at least the minimum analysis of .0% total nitrogen, .05% phosphate, and .05% potash (0-5-5) applied at the rate of 20 pounds per 1000 square feet.

2.03 WATER

A. Contractor shall apply water as necessary to ensure that plant material is uniformly moistened and maintained in a moist condition until the work top layer approved by the landscape architect and responsibility for maintenance accepted by the Owner.

2.04 TOPSOIL

A. Topsoil shall be obtained from the soil horizon normally deposited as "A" or "B" or as defined by the Science Society of America, or shall be obtained from alluvial deposits. In addition, topsoil borrow shall meet the following requirements:

Material passing No. 10 sieve 85% Clay 2% Sand 40% Silt 40% Shale 2% Organic matter 3% pH 6.0

B. Submit and test to be tested for its structure and ability to support plant growth prior to beginning landscape operations. Tests shall be submitted to the landscape architect and acceptance of materials shall be made (if necessary) thereafter. All soils tests must be done by the Contractor.

C. Soil Amendments (if required):

1. Lime: Natural limestone 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 mesh sieve.

2. Potassium sulfate: Commercial grade.

3. Potassium phosphate: Commercial grade.

4. Bone meal: Commercial, raw, finely ground, 15% nitrogen and 20% phosphate acid.

5. Super phosphate: Stable mixture of elemental materials, 20% available phosphorus acid.

6. Sulfur: Commercial, free of lime materials.

7. Perlite: Commercial, to National Bureau of Standards P253.

8. Vermiculite: Horticultural grade, free of lime substances.

9. Spent: Rotted sawdust, free of chips, stones, nails, set or toxic substances and free of 15% of nitrogen, urethane and urea.

10. Fertilizer: Well rotted, unbleached kibble or cattle manure containing not more than 2% by volume water, suitable for use as a soil amendment.

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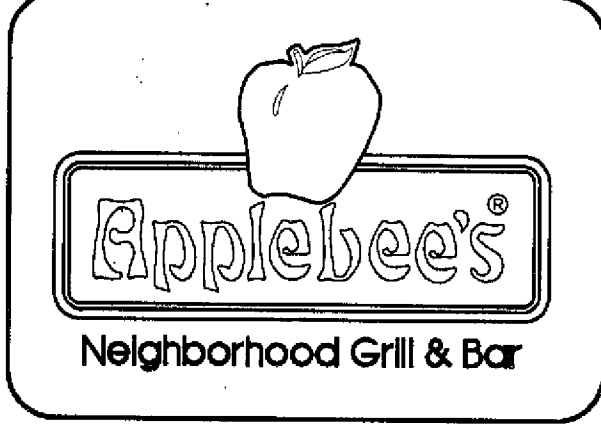
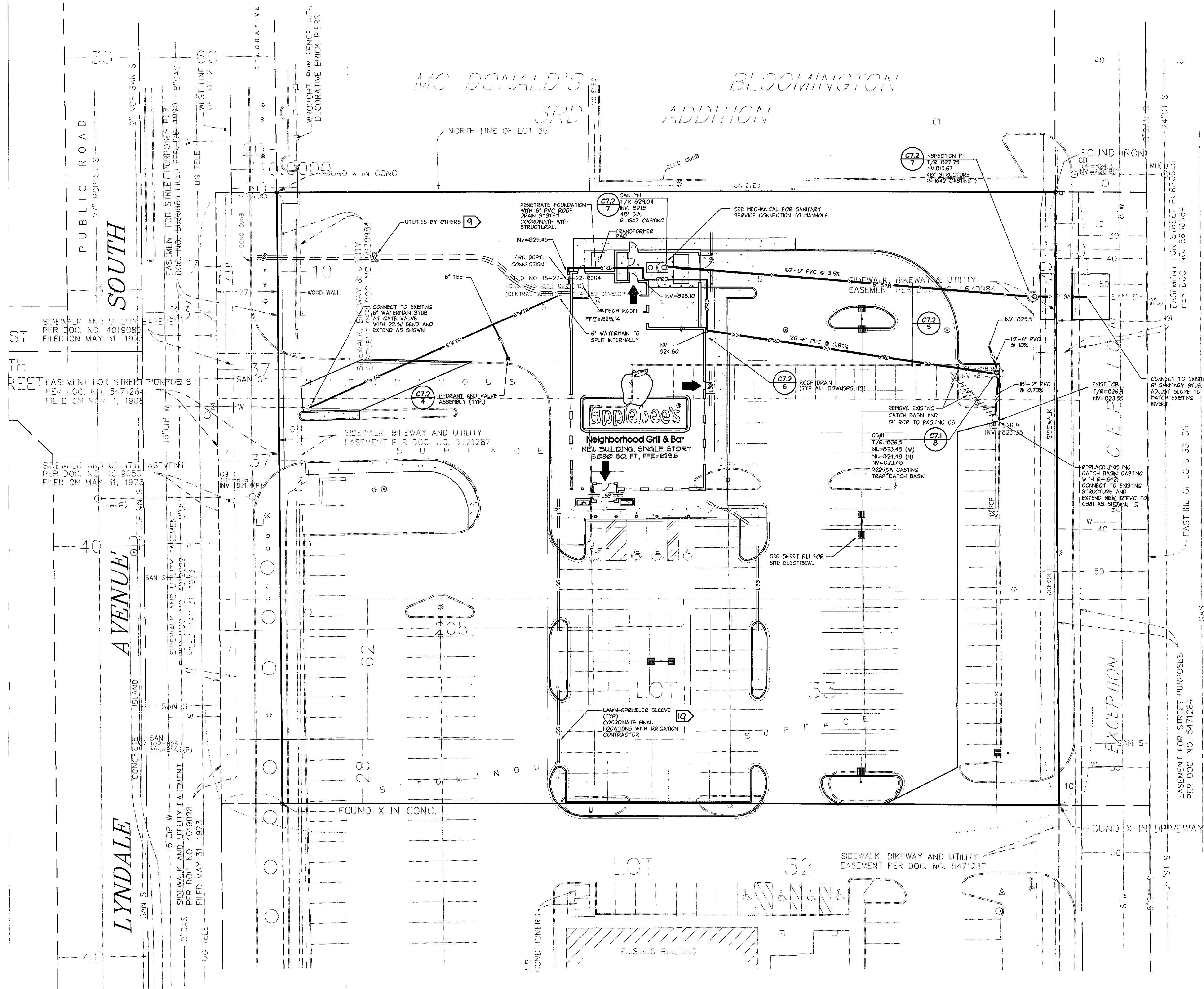
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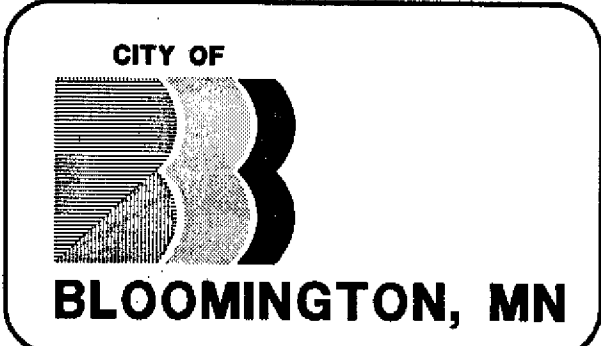
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APPLEBEE'S INTERNATIONAL, INC.
4551 W. 107th Street
Suite 100
Overland Park, Kansas 66207
(913)967-4005 fax(913)941-1695



BID ISSUE

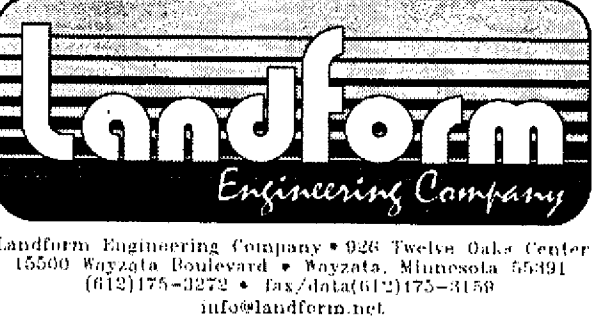
- NOTES:
1. HANTAN 7.5 COVER ON ALL NEW WATERMAN.
 2. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR END OF FLARED END SECTION.
 3. PIPE MATERIALS:
WATERMAN: 12" CLASS 52
WATER SERVICE: 12" COVER DOMESTIC TYPE 'X'
SAN SEWER: 12" RCP CLASS 5
STORM SEWER: 12" RCP CLASS 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.
 6. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF SERVICE CONNECTIONS AND CONTINUATION OF SERVICES WITHIN BUILDING.
 7. ADJUST ALL STRUCTURES, PUBLIC AND PRIVATE, TO PROPOSED GRADES WHERE REQUIRED. CORRECT WITH ALL REQUIREMENTS OF UTILITY OWNERS.
 8. VERIFY ALL CONNECTIONS TO EXISTING UTILITY SERVICES PRIOR TO CONSTRUCTION.
 9. COORDINATE WITH ALL INDIVIDUAL PRIVATE UTILITY OWNERS TO PROVIDE EXACT LOCATION OF SERVICE CONNECTIONS, TELEPHONE, AND CABLE SERVICE TO PROPOSED BUILDING.
 10. COORDINATE WITH EROSION CONTROL CONTRACTOR TO PROVIDE LAWN SPRINKLER SLEEVES AS REQUIRED.
 11. CONTACT OWNER FOR EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN LOCATED UTILITIES AND THE EXISTING CONDITIONS PLAN SHOULD BE NOTED AND FORWARDED TO THE ENGINEER.
 12. OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION.

SHEET INDEX	
SHEET	TITLE
C0.1	TITLE SHEET
C1.1	EXISTING CONDITIONS PLAN
C2.1	SITE PLAN
C3.1	GRADING & EROSION CONTROL PLAN
C4.1	UTILITY PLAN
C5.1	ENLARGED PLAN
C6.1	CONSTRUCTION DETAILS
C7.1	CONSTRUCTION DETAILS
C7.2	CONSTRUCTION DETAILS
E1.1	SITE ELECTRICAL PLAN
L1.1	LANDSCAPE PLAN
L2.1	LANDSCAPE SPECIFICATIONS
L3.1	REGULATION PLAN

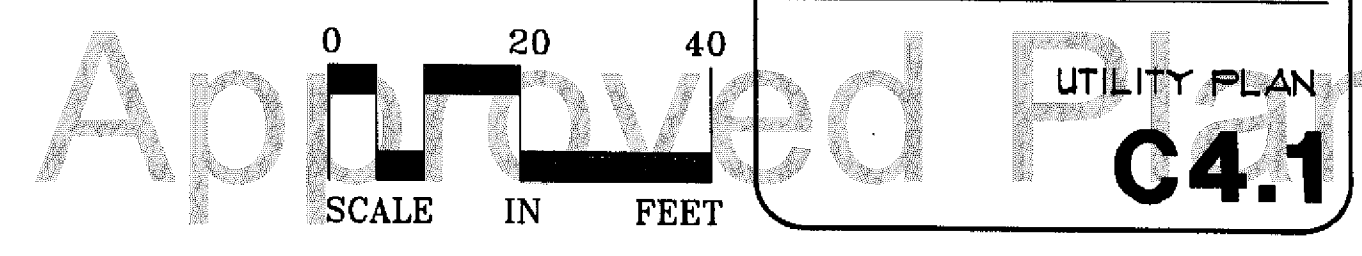
DATE	REVISION	REV.
5/01/97	CITY SUBMITTAL	
6/18/97	40% COMPLETE OWNER REVIEW	
6/29/97	BID ISSUE	

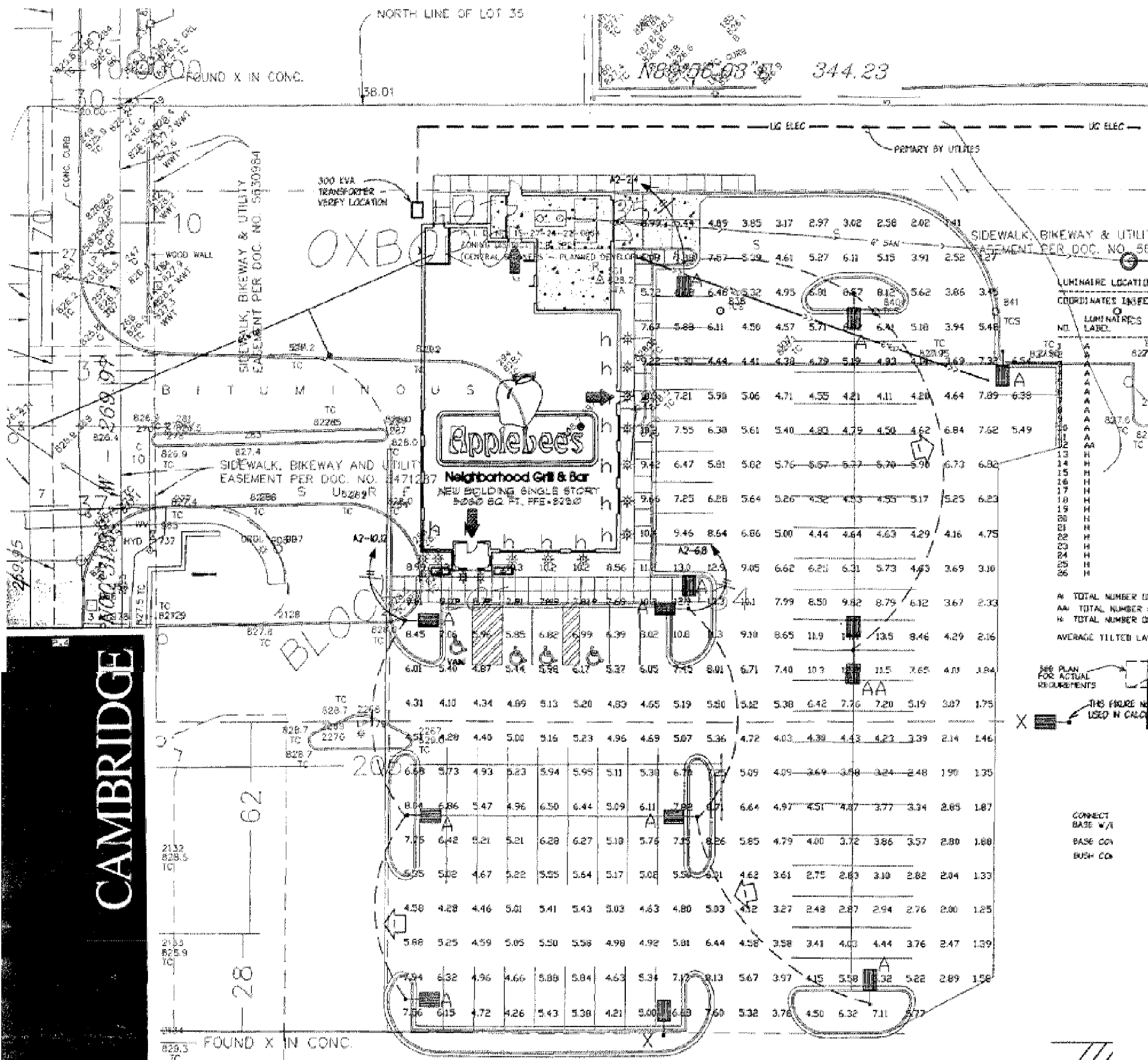
QUALITY MANAGEMENT REVIEW
BY: SARA MORE DATE: 6/24/97
CERTIFICATION:
I hereby certify that this plan was prepared by me, or under my direct supervision, and that I am a duly registered Professional Engineer under the laws of the State of Minnesota.
Stephen H. Johnson
Registration No. 0514 Date: 4/29/97

PROJECT:
APPLEBEE'S RESTAURANT
Bloomington, Minnesota



DATE: 3/3/97
FILE NAME: C4010BLDWG
PROJECT NO. AP91003
UTILITY PLAN
C4.1





CAMBRIDGE

ULDLIGHTING, INC.

VOLTAGE DROP ON ANY ONE CIRCUIT SHALL NOT EXCEED 3%

PLANE - LOT ONLY

POINT SPACING LEFT-TO-RIGHT = 10 ft

POINT SPACING TOP-TO-BOTTOM = 10 ft

LOWER LEFTHAND CORNER OF PLANE:

X = 5 Y = 5 Z = 0

UPPER RIGHTHAND CORNER OF PLANE:

X = 189 Y = 255 Z = 0

LIGHT METER IS NORMAL TO PLANE

OBSTRUCTIVE SHAPE - BLDG.

HEIGHT = 14

TRANSMITTANCE = 0

REFERENCE POINT:

X = 18.25 Y = 135 Z = 0

AVERAGE Fc = 5.36

MAXIMUM Fc = 14.4

MINIMUM Fc = .73

AVERAGE/MINIMUM = 7.34

MAXIMUM/MINIMUM = 19.73

TOTAL NUMBER OF POINTS = 361

FIXTURE SCHEDULE						
Label	Quantity	Lamp Watts	Source	Mounting Ht.	Description/Notes	Manufacturer
A	11	CL400	SPR. MHAL.	30'-0"	SPALDING DEL-STD-PH-M400-IV-MT-DRZ (SINGLE)	

3/4" PVC CON
W/GROUND WIRE

NO. 8 TV GREE
GROUND WIRE

GROUND ROD
CLAMP BURNED
NO. 6-644C

3/8" COPPER
WELD GROUND
ROD AT TYPE V
ONLY

Approved Plan