

JULY 30, 2008 0/3/08 PER ROCHESTER HILLS

11/13/2008; REVISED PER CITY ( ROCHESTER HILLS REVIEW LETTER

= 50 FEET KLS CH. SJA

.M. S. PAWLACZYK 08003564SP-03-LS JOB 08003564

C600

TURF AREA SEED MIXTURE			
COMMON NAME	PROPT BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
KENTUCKY BLUE GRASS	30%	90%	80%
RED FESCUE	50%	95%	80%
PERENNIAL RYE GRASS	20%	95%	80%
APPLICATION RATE: 8 LBS/1000 SFT			

# THIN BRANCHES BY 1/3 RETAINING NORMAL PLANT SHAPÉ FASTEN TREE TO STAKE WITH TREE RING (DOUBLE STRAND #12 GAUGE TWISTED – WIRE & TWO PIECES OF 1/2" DIA. RUBBER HOSE) TREE WRAP - 2" x 2" HARDWOOD STAKES (ABOUT 5' FOR CROWN OF ROOT BALL SHALL BEAR À 2 – 2 1/2° CAL. TREE) SAME RELATION TO FINISH GRADE AS IT BORE TO PREVIOUS GRADE BALLED & BURLAP ROOT BALL CUT AND REMOVE TOP 1/3 OF BURLAP - 6" DEPTH MULCH CREATE SAUCER (MIN. 6") \_\_\_FINISH GRADE -COMPACTED TOPSOIL MIX 3' MIN. -UNDISTURBED SOIL

1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE REMOVE TREE RINGS, TREE WRAP AND STAKES TWO YEARS AFTER INSTALLATION

4. WATER TREE THOROUGHLY SUBSEQUENT TO INSTALLATION **DECIDUOUS TREE PLANTING DETAIL** BALLED AND BURLAP NO SCALE

#### CITY OF ROCHESTER HILLS LANDSCAPE NOTES

- 1. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT MUST INSPECT ALL LANDSCAPE PLANTINGS INCLUDING BUT NOT LIMITED TO EXISTING TREES, REPLACEMENT TREES, BUFFER PLANTINGS, AND PARKING LOT ISLANDS. THE RIGHT-OF-WAY WILL BE INSPECTED BY THE FORESTRY DIVISION TO IDENTIFY ANY PLANTINGS NW OR EXISTING THAT POSE A HAZARD TO THE SAFE USE OF THE RIGHT-OF-WAY. FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE AND POSSIBLY REPLACE ANY SUCH TREES.
- 2. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF A PUBLIC ROADWAY, SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5 FROM THE EDGE OF A PUBLIC WALKWAY. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF A PUBLIC WALKWAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY FIRE HYDRANT. SHADE AND EVERGREEN TREES MUST BE PLANTED AT LEAST 15' FROM THE NEAREST OVERHEAD WIRE AND AT LEAST 10 FROM THE NEAREST UNDERGROUND UTILITY.
- 3. NO TREE OR SHRUB MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-WAY AT A DISTANCE OF 25' FROM THEIR POINT OF INTERSECTION. NO TREE OR SHRUB MAY BE PLANTED IN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC SIDEWALK AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF INTERSECTION.
- 4. PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB IN THE PUBLIC RIGHT OF
- 5. NO SUBSTITUTIONS OR CHANGES OF LOCATION OR PLANT TYPES SHALL BE MADE WITHOUT THE APPROVAL OF THE DEVELOPER AND THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT.
- 6. THE DEVELOPER AND/OR THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT SHALL HAVE THE RIGHT, AT ANY STAGE OF THE INSTALLATION, TO REJECT ANY WORK OR MATERIAL THAT DOES NOT MEET THE REQUIREMENTS OF THE PLANS OR SPECIFICATIONS.
- THE APPROVAL OF THE DEVELOPER AND THE CITY OF ROCHESTER HILLS LANDSCAPE
- 9. TREES MUST BE AT LEAST 10' FROM UNDERGROUND UTILITIES AND 15' FROM OVERHEAD UTILITIES.

CROWN OF ROOT BALL SHALL BEAR SAME - RELATION TO FINISH GRADE AS IT BORE

BALLED & BURLAP ROOT BALL CUT AND REMOVE TOP 1/3 OF BURLAP

TO PREVIOUS GRADE

CREATE SAUCER (MIN. 4")

-COMPACTED TOPSOIL MIX

-UNDISTURBED SOIL

- 6" DEPTH MULCH

- FINISH GRADE

1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING

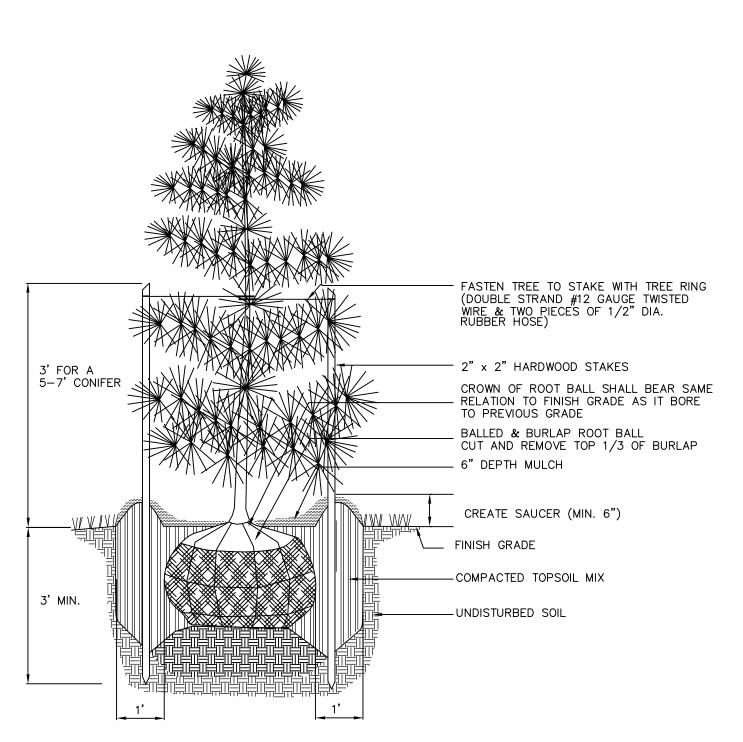
SHRUB PLANTING DETAIL

2. WATER SHRUB THOROUGHLY SUBSEQUENT TO INSTALLATION

OF ROCHESTER HILLS' LANDSCAPE ARCHITECT.

### LANDSCAPE NOTES

- 1. COORDINATE PLACEMENT OF PLANTS WITH UTILITY LOCATIONS. MAKE ADJUSTMENTS AS REQUIRED TO AVOID PLANTING OVER THE UTILITIES.
- 2. THE CENTER OF LARGE ISLANDS IS TO BE SIX INCHES HIGHER THAN TOP OF CURB. ENSURE ALL ISLANDS ARE SLOPED FOR POSITIVE DRAINAGE.
- 3. ALL AREAS THAT REQUIRE SEEDING SHALL RECEIVE 6 INCH MINIMUM TOPSOIL, UNLESS
- 4. SEED ALL UNPAVED, AND UNMULCHED AREAS INDICATED ON THE LANDSCAPE PLAN, THE SOIL EROSION CONTROL PLAN AND ALL DISTURBED AREA. REVIEW AREAS OF SEEDING WITH CONSTRUCTION MANAGER PRIOR TO ANY SEEDING. ANY AREAS DISTURBED BY THE CONTRACTOR WHICH ARE BEYOND THE LIMITS OF GRADING AND EARTHWORK SHALL BE SEEDED AT NO ADDITIONAL COST TO THE OWNER.
- 5. APPLY STARTER FERTILIZER AS SPECIFIED AT 250 POUNDS/ACRE TO SEEDED AREAS.
- 6. ALL LANDSCAPE ISLANDS SHALL BE MULCHED EXCEPT AS NOTED.
- 7. ANY DISCREPANCY WITH THE PLAN AND PLANT LIST, THE NUMBER OF SYMBOLS ON THE PLAN SHALL TAKE PRECEDENT.
- 8. SIZES SPECIFIED ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE INSTALLED.
- 9. ALL LANDSCAPING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY OF ROCHESTER HILLS STANDARDS AND IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS IN A NEAT, HEALTHY AND WEED FREE CONDITION. ANY DEAD, DISEASED OR DAMAGED PLANT MATERIAL IS TO BE REPLACED WITHIN TWO YEARS.
- 10. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES. PLANT MATERIAL IS TO BE LOCATED SUCH THAT IT WILL NOT INTERFERE WITH ANY UNDERGROUND OR OVERHEAD UTILITIES.
- 11. PLANT TREES AND SHRUBS AT THE SAME GRADE LEVEL AT WHICH THEY WERE GROWN AT THE NURSERY. IF HEAVY CLAY SOILS ARE EVIDENT, PLANT TREES AND SHRUBS HIGHER, APPROXIMATELY 1/3 OF THE ROOT BALL ABOVE THE GRADE.
- 12. REMOVE ALL TWINE, WIRE, NURSERY TREE GUARDS, TAGS AND INORGANIC MATERIAL FROM ROOT BALLS. PEEL BACK THE TOP 1/3 OF BURLAP FROM EARTH BALLS AND REMOVE ANY BURLAP AROUND TREE TRUNKS.
- 13. ALL LANDSCAPE AREAS SHALL BE EXCAVATED OF ALL BUILDING/CONSTRUCTION MATERIAL AND POOR SOILS TO A DEPTH OF 18-24" AND BACKFILLED WITH GOOD, MEDIUM TEXTURED PLANTING SOIL.
- 14. BACKFILL DIRECTLY BEHIND ALL CURBS AND ALONG SIDEWALKS AND COMPACT TO TOP OF CURB OR WALK TO SUPPORT VEHICLE AND PEDESTRIAN WEIGHT WITHOUT SETTLING.
- 15. ALL DISTURBED UNPAVED AREAS ARE TO BE SPREAD WITH A MINIMUM 6 INCHES OF TOPSOIL AND HYDRO-SEEDED OR SODDED WITH MDOT CLASS A SEED OR SOD AS NOTED ON THE PLAN. AREAS OF INDIVIDUAL TREES AND LANDSCAPE BEDS ARE TO BE MULCHED WITH A MINIMUM OF 6 INCHES SHREDDED HARDWOOD BARK. EXISTING MULCH BEDS SHOULD BE CHECKED FOR DEPTH WITH ADDITIONAL MULCH BEING ADDED WHERE NECESSARY. LAWN TREES ARE TO BE MULCHED WITH A 4' DIAMETER SHREDDED BARK RING. BARK IS TO BE PULLED AWAY FROM THE TRUNK OF TREES LEAVING A 3' CLEAR AREA AROUND THE TRUNK.
- 16. ANY PLANT SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE LANDSCAPE
- 17. ALL LANDSCAPE PLANT MATERIAL TO BE AUTOMATICALLY IRRIGATED WITH AN UNDERGROUND SYSTEM.
- 18. ALL LANDSCAPE EDGING TO BE PERMA-LOC ALUMINUM EDGING OR APPROVED EQUAL.
- 19. ALL EXISTING PLANT MATERIAL TO REMAIN UNLESS OTHERWISE SPECIFIED ON THE PLANS. 20. ALL IRRIGATION SHALL BE LIMITED TO THE HOURS BETWEEN 12:00 AM AND 5:00 AM PER THE CITY OF ROCHESTER HILLS ORDINANCE.



## NOTES:

. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE . REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION 4. WATER TREE THOROUGHLY SUBSEQUENT TO INSTALLATION

> **CONIFEROUS TREE PLANTING DETAIL** BALLED AND BURLAP NO SCALE



NOT FOR CONSTRUCTION CITY FILE #08-005



AS NOTED KLS || CH. SJA M. S. PAWLACZYK \_\_\_ 08003564SP-03-LS JOB 08003564

∥ (X)

meijer

ROCHESTER I (SWC) ADAMS RO

JULY 30, 2008

0/3/08 PER ROCHESTER HILLS

11/13/2008; REVISED PER CITY ROCHESTER HILLS REVIEW LETTER

TLE CODE: —— SHEET NO. C601



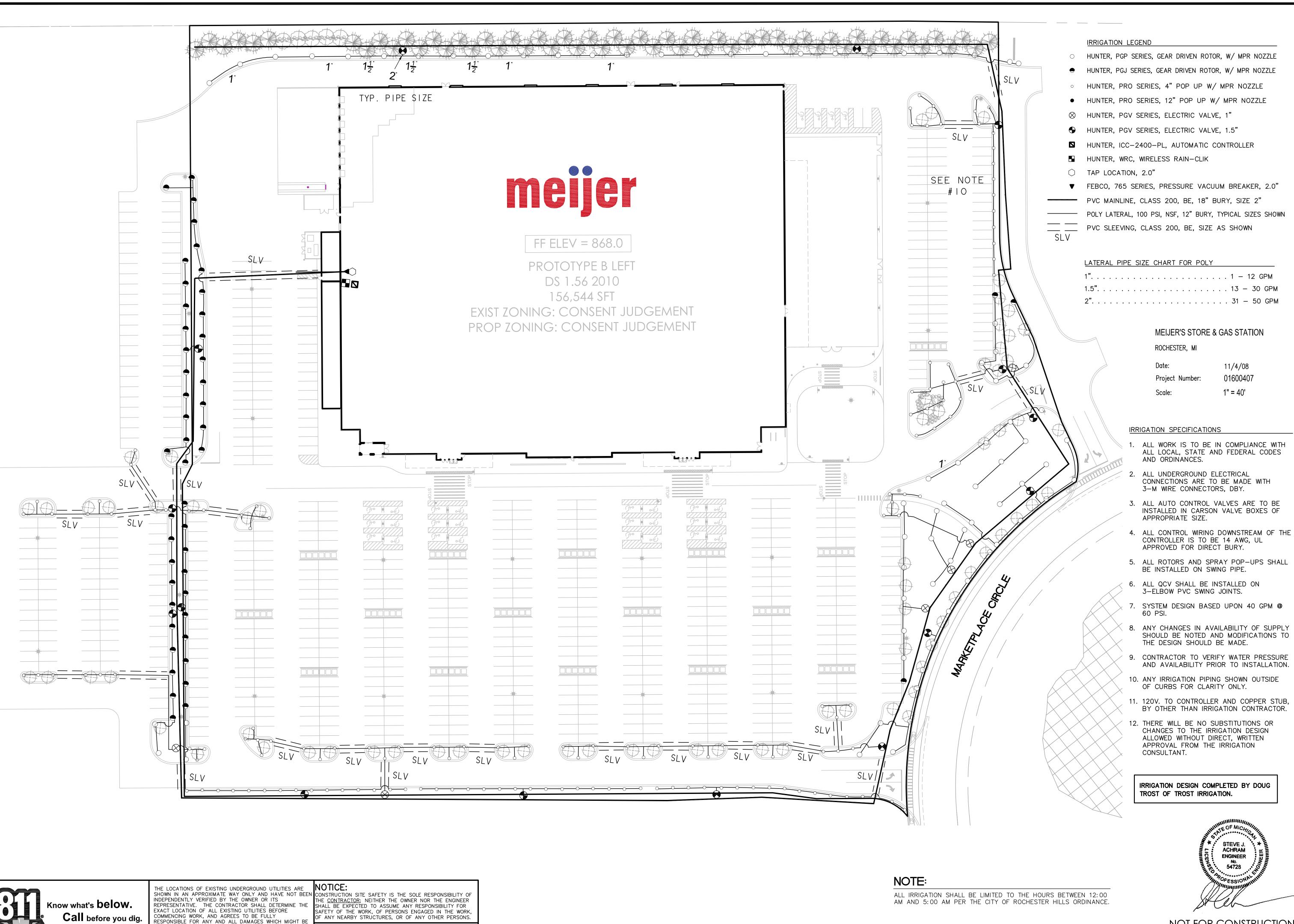
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

## NOTICE:

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK. OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS

COPYRIGHT (C) 2008 ATWELL-HICKS NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF ATWELL-HICKS

- 7. REPLACEMENT TREES MAY NOT BE PLANTED WITHIN THE DRIP LINE OF EXISTING TREES.
- 8. NO SUBSTITUTIONS OR CHANGES OF LOCATION OR PLANT TYPE SHALL BE MADE WITHOUT
- 10. ALL LANDSCAPING AND THE IRRIGATION SYSTEM MUST BE WARRANTED BY THE DEVELOPER FOR A PERIOD OF 2 YEARS FROM THE ACCEPTANCE OF SAME BY THE CITY



OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY

LOCATE AND PRESERVE ANY AND ALL UNDERGROUND

UTILITIES.

COPYRIGHT (C) 2008 ATWELL—HICKS

NO REPRODUCTION SHALL BE MADE WITHOUT THE

PRIOR WRITTEN CONSENT OF ATWELL-HICKS

meijer.

ER IS RC

ROC (SWC)

JULY 30, 2008

0/3/08 PER ROCHESTER HILLS 1/13/2008; REVISED PER CITY C ROCHESTER HILLS REVIEW LETTER

REVISIONS

NOT FOR CONSTRUCTION

CITY FILE #08-005

1"=40 FEET KLS CH. SJA .M. S. PAWLACZYK

08003564SP-04-IR JOB 08003564 ILE CODE: —— SHEET NO. C602

IRRIGATION LEGEND

- O HUNTER, PGP SERIES, GEAR DRIVEN ROTOR, W/ MPR NOZZLE
- HUNTER, PRO SERIES, 12" POP UP W/ MPR NOZZLE
- ⊗ HUNTER, PGV SERIES, ELECTRIC VALVE, 1"
- HUNTER, ICC-1600-PL, AUTOMATIC CONTROLLER
- ⊕ TAP LOCATION, 1.0"
- ▲ FEBCO, 765 SERIES, PRESSURE VACUUM BREAKER, 1.0"

POLY MAINLINE, CLASS 200, BE, 18" BURY, SIZE 1.5" POLY LATERAL, 100 PSI, NSF, 12" BURY, TYPICAL SIZES SHOWN

PVC SLEEVING, CLASS 200, BE, SIZE AS SHOWN

LATERAL PIPE SIZE CHART FOR POLY 

#### IRRIGATION SPECIFICATIONS

SLV

- 1. ALL WORK IS TO BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
- 2. ALL UNDERGROUND ELECTRICAL CONNECTIONS ARE TO BE MADE WITH 3-M WIRE CONNECTORS, DBY.
- 3. ALL AUTO CONTROL VALVES ARE TO BE INSTALLED IN CARSON VALVE BOXES OF APPROPRIATE SIZE.
- 4. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED FOR DIRECT BURY.
- 5. ALL ROTORS AND SPRAY POP-UPS SHALL BE INSTALLED ON SWING PIPE.
- 6. ALL QCV SHALL BE INSTALLED ON 3-ELBOW PVC SWING JOINTS.
- 7. SYSTEM DESIGN BASED UPON 22 GPM @ 60 PSI.
- 8. ANY CHANGES IN AVAILABILITY OF SUPPLY SHOULD BE NOTED AND MODIFICATIONS TO THE DESIGN SHOULD BE MADE.
- 9. CONTRACTOR TO VERIFY WATER PRESSURE AND AVAILABILITY PRIOR TO INSTALLATION.
- 10. ANY IRRIGATION PIPING SHOWN OUTSIDE OF CURBS FOR CLARITY ONLY.
- 11. 120V. TO CONTROLLER AND COPPER STUB, BY OTHER THAN IRRIGATION CONTRACTOR.
- 12. THERE WILL BE NO SUBSTITUTIONS OR CHANGES TO THE IRRIGATION DESIGN ALLOWED WITHOUT DIRECT, WRITTEN APPROVAL FROM THE IRRIGATION CONSULTANT.

## MEIJER'S STORE & GAS STATION

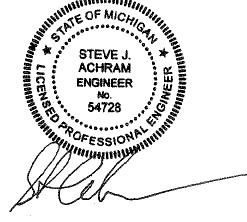
ROCHESTER, MI

11/4/08 01600407 Project Number: 1" = 40' Scale:

IRRIGATION DESIGN COMPLETED BY DOUG TROST OF TROST IRRIGATION.

## NOTE:

ALL IRRIGATION SHALL BE LIMITED TO THE HOURS BETWEEN 12:00 AM AND 5:00 AM PER THE CITY OF ROCHESTER HILLS ORDINANCE.



NOT FOR CONSTRUCTION

CITY FILE #08-005

Know what's **below.** Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF INDEPENDENTLY VERIFIED BY THE OWNER OR ITS

THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY

LOCATE AND PRESERVE ANY AND ALL UNDERGROUND

UTILITIES.

THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

COPYRIGHT (C) 2008 ATWELL—HICKS NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF ATWELL-HICKS

meijer.

ROCHESTER HILLS, N (SWC) ADAMS ROAD & M-

RC JULY 30, 2008

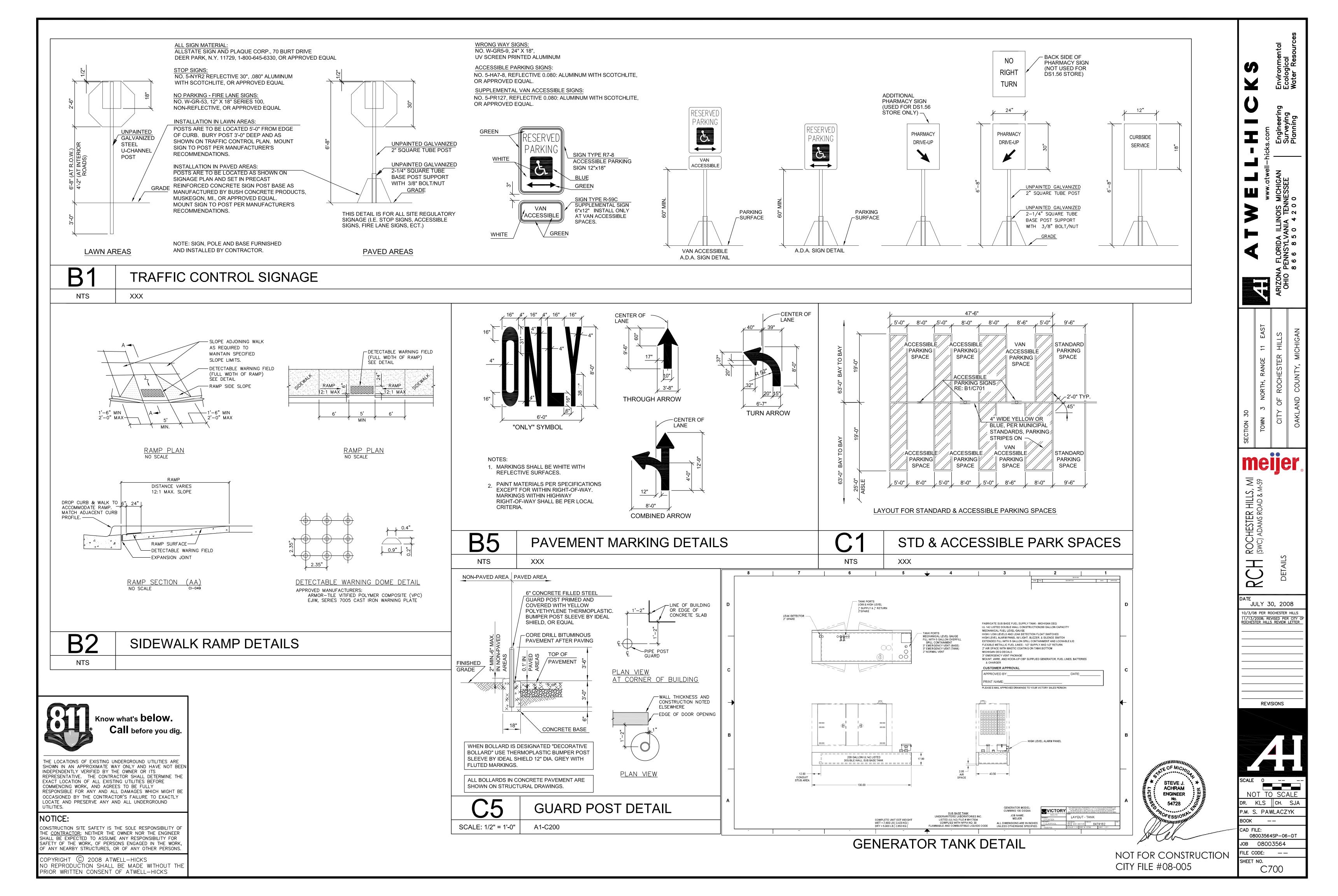
10/3/08 PER ROCHESTER HILLS 11/13/2008; REVISED PER CITY C ROCHESTER HILLS REVIEW LETTER

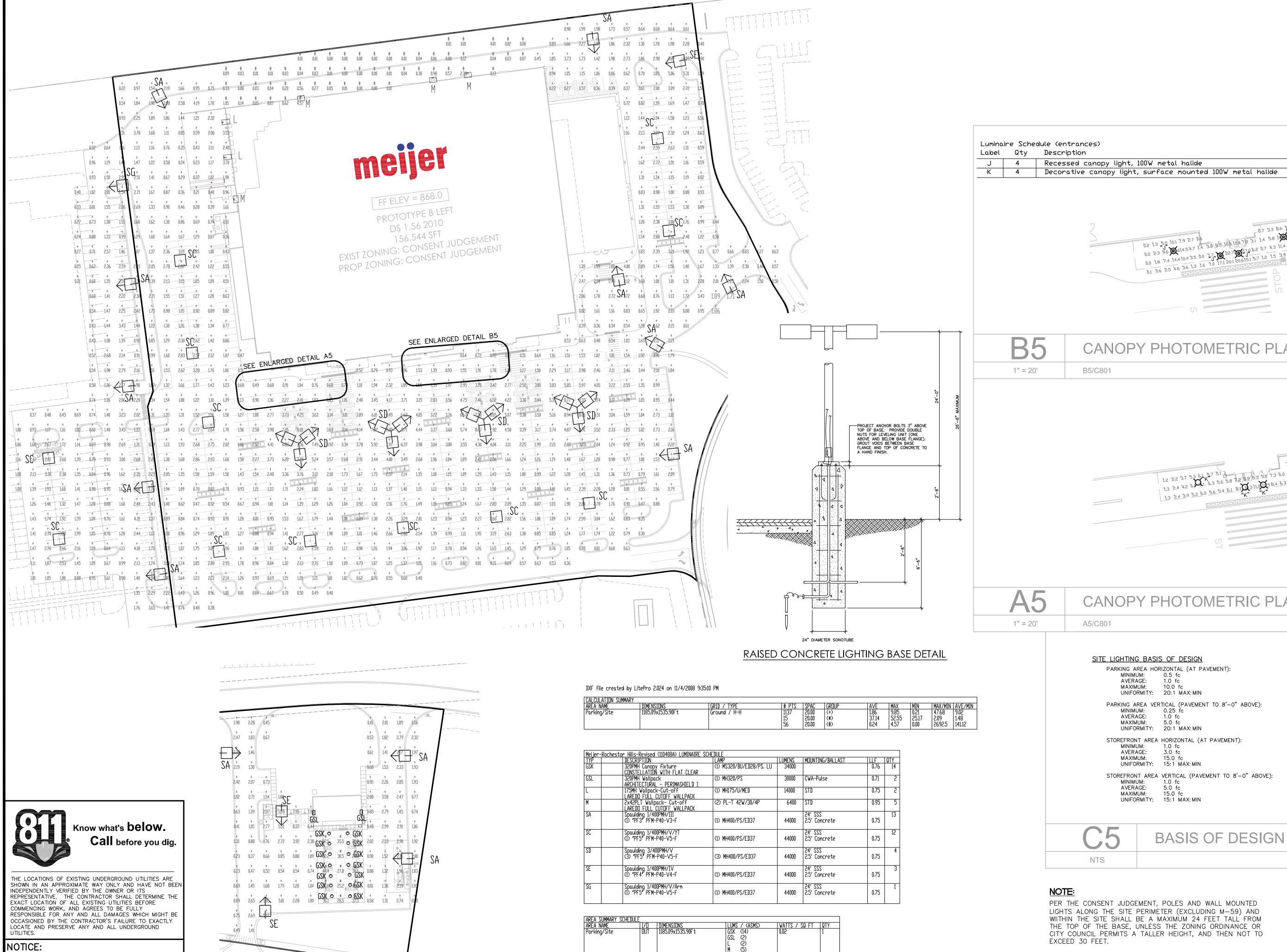
REVISIONS

0 20 40 1"=40 FEET KLS CH. SJA P.M. S. PAWLACZYK --

08003564SP-04-IR JOB 08003564 FILE CODE: --

SHEET NO. C603





CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER

SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK,

OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS

NO REPRODUCTION SHALL BE MADE WITHOUT THE

PRIOR WRITTEN CONSENT OF ATWELL-HICKS

GAS STATION PLAN VIEW

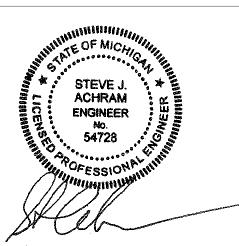
COPYRIGHT © 2008 ATWELL-HICKS

⟨SA ⟩ (13)

Total Lumens LLF 0.750 CANOPY PHOTOMETRIC PLAN - ELEVATION B 1.2 2.2 3.7 5.3 61, 5.7 5.1

1.3 2.4 4.2 6 3.1 6.3 5.6 5.8 1.2 8.3 9.3 1.0 3.5 8.4 6.3 5.3 5.4 5.9 5.3 4.1 2.5 1.4

1.3 2.4 3.9 5.2 6.0 5.6 5.4 6.1 8.1 3.3 11.0 3.3 11.0 3.5 8.4 6.3 5.3 5.4 5.9 5.3 4.1 2.5 1.4 meijer ROCHESTER HILLS, MI (SWC) ADAMS ROAD & M-59 CANOPY PHOTOMETRIC PLAN - ELEVATION A RC JULY 30, 2008 10/3/08 PER ROCHESTER HILLS 11/13/2008; REVISED PER CITY ROCHESTER HILLS REVIEW LETTER



NOT FOR CONSTRUCTION CITY FILE #08-005

= 60 FEETKLS || CH. SJA P.M. S. PAWLACZYK --CAD FILE: 08003564SP-05-PH JOB 08003564 FILE CODE: --

C801

SHEET NO.

REVISIONS