

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

APRIL 16, 2013

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

*[Signature]* 10/7/13  
City Engineer Date

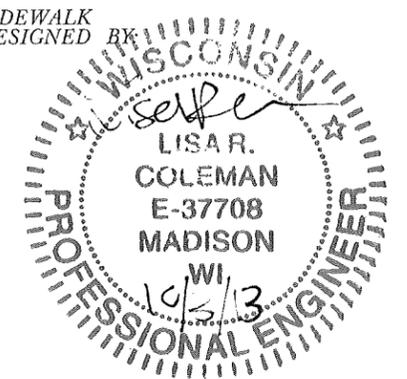
INDEX OF SHEETS

SHEET NO.	TITLE
SHEET NO. 1	STANDARD NOTES AND COMMENTS
SHEET NO. D1	TYPICAL SECTIONS
SHEET NO. D2	FISH HATCHERY ROAD SIDEWALK
SHEET NO. P1	HIGH STREET SIDEWALK
SHEET NO. P2	BROOKS STREET SIDEWALK
SHEET NO. P3	UTILITY PLAN AND PROFILE
SHEET NO. U1	ELECTRICAL PLAN TO BE ISSUED AT A LATER DATE

## 1033 HIGH STREET PUD

CITY PROJECT NO. 53B2348  
CONTRACT NO. 2348

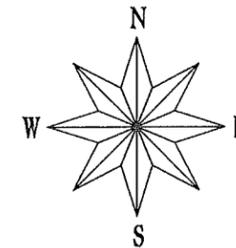
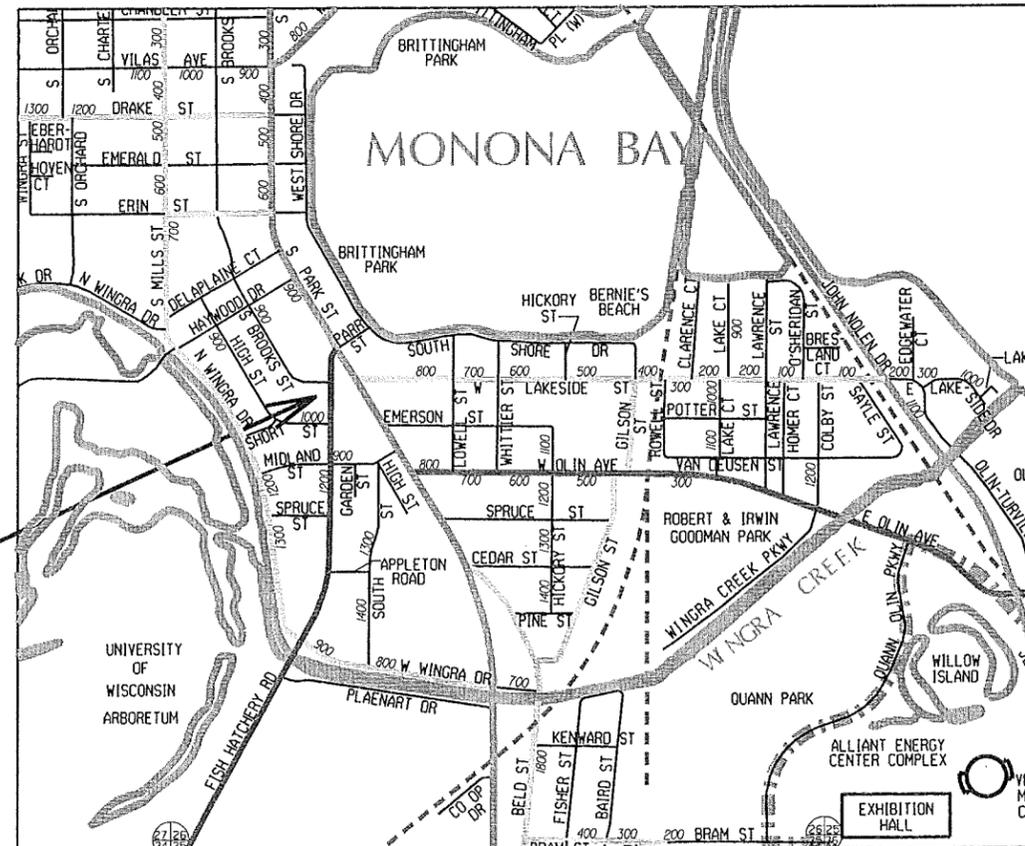
SIDEWALK DESIGNED BY:



STORM & SANITARY SEWER DESIGNED BY:



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	[Symbol]
COMBUSTIBLE FLUIDS	[Symbol]



## CONSTRUCTION PROJECT LOCATION

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

THE LOCATION AND INFORMATION FOR PROPOSED NEW TREES, IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY. THE LOCATIONS, SPECIFICATIONS AND PLANTING METHODS OF ALL PROPOSED NEW OR REPLACEMENT TREES IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE APPROVED BY THE CITY FORESTER PRIOR TO INSTALLATION.

NO TREES IN THE RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE TRIMMED, PRUNED, REMOVED OR ADVERSELY AFFECTED IN ANY WAY UNTIL THE DEVELOPER HAS RECEIVED WRITTEN PERMISSION FROM THE CITY ENGINEER OR CITY FORESTER. SAID WRITTEN PERMISSION SHALL INCLUDE LANGUAGE INDICATING THAT SECTION 10.101 OF THE MADISON GENERAL ORDINANCES AND ADMINISTRATIVE PROCEDURE MEMORANDUM NO. 6-2, REFERING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

THE DEVELOPER/CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW TO CITY TRAFFIC ENGINEERING AT LEAST 10 WORKING DAYS PRIOR TO WORK BEGINNING WITHIN THE RIGHT OF WAY. WORK SHALL NOT PROCEED IN THE RIGHT OF WAY UNTIL THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED. THE TRAFFIC CONTROL PLAN MAY INCLUDE BUT IS NOT LIMITED TO: LANE CLOSURE RESTRICTIONS, PEAK HOUR WORKING RESTRICTIONS, ACCESS REQUIREMENTS, ETC. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR PHASING WORK AS NECESSARY TO MEET THE REQUIREMENTS OF THE APPROVED TRAFFIC CONTROL PLAN.

THE DEVELOPER/CONTRACTOR SHALL CONTACT CITY FORESTRY (DEAN KAHL 266-4891 OR 266-4816) PRIOR TO EXCAVATING WITHIN 5 FT. OF AN EXISTING TREE SO THAT THEY MAY PROVIDE DIRECTION ON THE WORK. THE DEVELOPER/CONTRACTOR SHALL ALSO CONTACT CITY FORESTRY AT LEAST ONE WEEK PRIOR TO ANY TREE REMOVALS OR PRUNING TO OBTAIN A PERMIT FOR TREE REMOVAL OR PRUNING WITHIN THE RIGHT-OF-WAY.

CONTRACTOR SHALL INSTALL TREE TYPES SPECIFIED AT APPROX. LOCATIONS SHOWN WITHIN THE TERRACE OF FISH HATCHERY ROAD, HIGH STREET, AND BROOKS STREET. CONTRACTOR SHALL CONTACT DEAN KAHL WITH CITY FORESTRY (266-4891 OR 266-4816) AT LEAST ONE WEEK PRIOR TO PLANTING TO ALLOW FORESTRY TO MARK THE PLANTING SITES AND REVIEW PLANTING SPECIFICATIONS WITH THE LANDSCAPING CONTRACTOR.

ALL PAVEMENT IN THE FISH HATCHERY ROAD RIGHT-OF-WAY SHALL BE TYPE C PAVEMENT. ALL PAVEMENT IN THE HIGH STREET AND BROOKS STREET RIGHT-OF-WAYS SHALL BE TYPE A PAVEMENT. SAWCUTS, PATCHING & MILL & OVERLAY LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE AT THE DISCRETION OF THE CONSTRUCTION ENGINEER & IN ACCORDANCE WITH CITY OF MADISON PATCHING CRITERIA.

ALL ISLANDS SHALL HAVE TYPE "H" C & G PER S.D.D. 3.08 AND MOUNTABLE NOSES PER S.D.D. 3.13. ALL OTHER C & G SHALL BE TYPE "A" PER S.D.D. 3.06 UNLESS OTHERWISE NOTED.

ISLAND INTERIORS SHALL BE OF SOD WHERE THE BACK TO BACK OF CURB DIMENSION IS GREATER THAN 6'.

UNDERDRAINS SHALL BE INSTALLED, PER STANDARD DETAIL DRAWING 4.05 FOR 75' ON EACH SIDE OF THE LOW POINT, OR TO THE NEAREST CURB HIGH POINT. ALL UNDERDRAIN SHALL BE WRAPPED.

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADES OF 0.5% TOWARD STORM SEWER INLETS.

PAVEMENT CROSS SLOPES SHALL BE 2%, TERRACES SHALL SLOPE AT A 4% GRADE TOWARD THE GUTTER, SHOULDERS SHALL HAVE A 4% CROSS SLOPE AND CROSS SLOPES FORMING DITCHES SHALL NOT EXCEED 4.00:1 UNLESS OTHERWISE INDICATED.

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL BE 2%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.03. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. A 2 FOOT WIDE CONCRETE FLUME SHALL BE INSTALLED BETWEEN THE SIDEWALK AND THE BACK OF CURB AT SIDEWALK LOW POINTS WHICH CANNOT OTHERWISE BE DRAINED DIRECTLY TO THE GUTTER. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4.00:1. ALL SIDEWALK AND SIDEWALK RAMP ELEVATIONS AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES.

OBTAIN A PRINT OUT OF THE ALIGNMENT FROM THE CITY ENGINEER PRIOR TO STAKING THIS PROJECT.

CURB STATION AND OFFSETS SHALL BE TO THE FACE OF CURB UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE TOP OF CURB (OR EXTENDED TOP OF CURB FOR DRIVEWAYS OR RAMPS) UNLESS OTHERWISE INDICATED.

POWER POLES AND OTHER OBSTRUCTIONS SHALL BE MOVED TO PROVIDE 2 FEET MINIMUM OF CLEAR DISTANCE FROM ANY FACE OF CURB OR EDGE OF SIDEWALK.

ANY INFORMATION SHOWN ON THIS PLAN, WHICH IS NOT PART OF THIS PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.

THERE MAY BE EXISTING UTILITIES OR OTHER FEATURES WHICH ARE EITHER NOT SHOWN OR SHOWN INCORRECTLY ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO LOCATE AND IDENTIFY ALL UTILITIES AND TOPOGRAPHY WHICH MAY AFFECT THE CONSTRUCTION OF THESE IMPROVEMENTS.

ALL PERMANENT SIGNING AND POSTING WILL BE DETERMINED AND PROVIDED BY THE TRAFFIC ENGINEERING DIVISION, FOLLOWING CONSTRUCTION OF THESE IMPROVEMENTS.

THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

PAVEMENT SAWCUTS SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. SAWCUTS SHOWN ON THE PLAN ARE APPROXIMATE.

CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO SDD 3.05.

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

- ① REFERENCE LINE AND/OR POINT REFERRED TO ON PROFILE
- ② 5" OR 7" CONCRETE SIDEWALK
- ③ TYPE 'A' CONCRETE CURB & GUTTER
- ④ 4" TOPSOIL, SEED & MAT
- ⑤ 2" UPPER LAYER BIT PVMT, 12.5 mm, TYPE E-3
- ⑥ 3.25" LOWER LAYER BIT PVMT, 19 mm, TYPE E-3
- ⑦ GRADATION 2 CRUSHED AGG BASE COURSE, 4" TYP.
- ⑧ GRADATION 1 CRUSHED AGG BASE COURSE, 6" TYP.
- ⑨ 1.75" UPPER LAYER BIT PVMT, 12.5 mm, TYPE E-0.3
- ⑩ 1.75" LOWER LAYER BIT PVMT, 12.5 mm, TYPE E-0.3

PAVEMENT PATCHING CRITERIA

CRITERIA TO USE ON:  
STREETS WITH PAVEMENT RATING >6  
ARTERIAL STREETS

1. LENGTH OF PATCH

- A. MINIMUM 50' LONG
- B. MINIMUM OF 15' BEYOND THE EXCAVATION
- C. WHERE MULTIPLE PATCHES ARE CREATED AND THE SEPARATION BETWEEN THEM IS < 100 FT, THE PATCHES SHALL BE COMBINED INTO A SINGLE PATCH.
- D. THE PATCHES SHALL BE ADJUSTED IN THE FIELD TO MEET SPECIAL CONDITIONS SUCH AS PREVIOUS PAVING OR PAVING LIMITS.

2. WIDTH OF PATCH

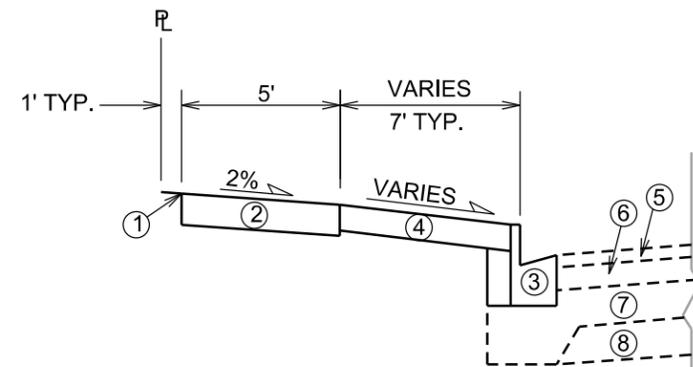
- A. ALL STREETS EXCEPT DIVIDED OR ONE-WAY ROADWAYS
  - i. STREET WIDTH 0-24' WIDE - PATCH ENTIRE STREET WIDTH
  - ii. STREET WIDTH 25'-37' WIDE - PATCH ONE HALF THE STREET WIDTH (CURB TO CL ROAD). NOTE - UTILITY ENGINEER MAY ADJUST THE PAVING LIMIT TO CORRESPOND WITH A PAINTED CENTERLINE WHERE THE PAINTED CL IS NOT IN THE CENTER OF THE STREET.
  - iii. STREET WIDTH 38 FEET AND UP - PATCH WIDTH OF ENTIRE LANE FOR EACH LANE WHICH WAS DISTURBED BY THE EXCAVATION.
    - 1. IF THE LANE IS ADJACENT TO A BIKE LANE, INCLUDE THE BIKE LANE (EXCEPT WHERE THERE IS A PARKING LANE BETWEEN THE BIKE LANE AND THE CURB).
    - 2. IF THE LANE IS A BIKE LANE AND ADJACENT TO A PARKING LANE, INCLUDE THE PARKING LANE.
    - 3. IF THE LANE IS A BIKE LANE AND NOT ADJACENT TO A PARKING LANE, INCLUDE THE ADJACENT TRAVEL LANE.
- B. DIVIDED ROADWAYS AND ONE-WAY STREETS
  - i. STREET 0-19' WIDE - PATCH ENTIRE STREET WIDTH
  - ii. STREET WIDTH 20' AND UP - PATCH WIDTH OF ENTIRE LANE WHICH WAS DISTURBED BY THE EXCAVATION.
    - 1. IF THE LANE IS ADJACENT TO A BIKE LANE, INCLUDE THE BIKE LANE (EXCEPT WHERE THERE IS A PARKING LANE BETWEEN THE BIKE LANE AND THE CURB).
    - 2. IF THE LANE IS A BIKE LANE AND ADJACENT TO A PARKING LANE, INCLUDE THE PARKING LANE.
    - 3. IF THE LANE IS A BIKE LANE AND NOT ADJACENT TO A PARKING LANE, INCLUDE THE ADJACENT TRAVEL LANE.

CITY OF MADISON MINIMUM PAVEMENT DESIGN

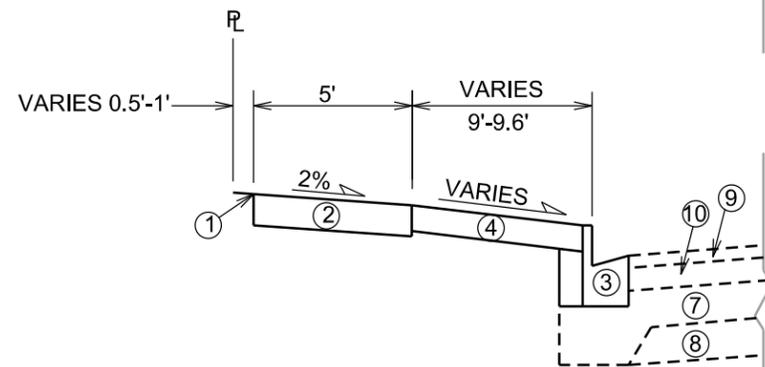
TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75"
B	6"	4"	E-1	2.50"	E-1	1.75"
C	6"	4"	E-3	3.50"	E-3	1.75"

STREET RATINGS

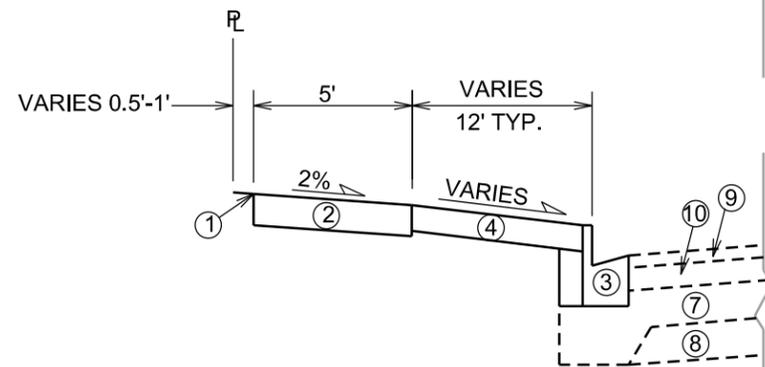
STREET NAME	CLASSIFICATION	PAVEMENT RATING
FISH HATCHERY RD	ARTERIAL	9
HIGH ST	LOCAL	7
BROOKS ST	LOCAL	4



TYPICAL FINISHED SECTION  
FISH HATCHERY ROAD  
NTS



TYPICAL FINISHED SECTION  
HIGH STREET  
NTS



TYPICAL FINISHED SECTION  
BROOKS STREET  
NTS

PLOT SCALE: \_\_\_\_\_

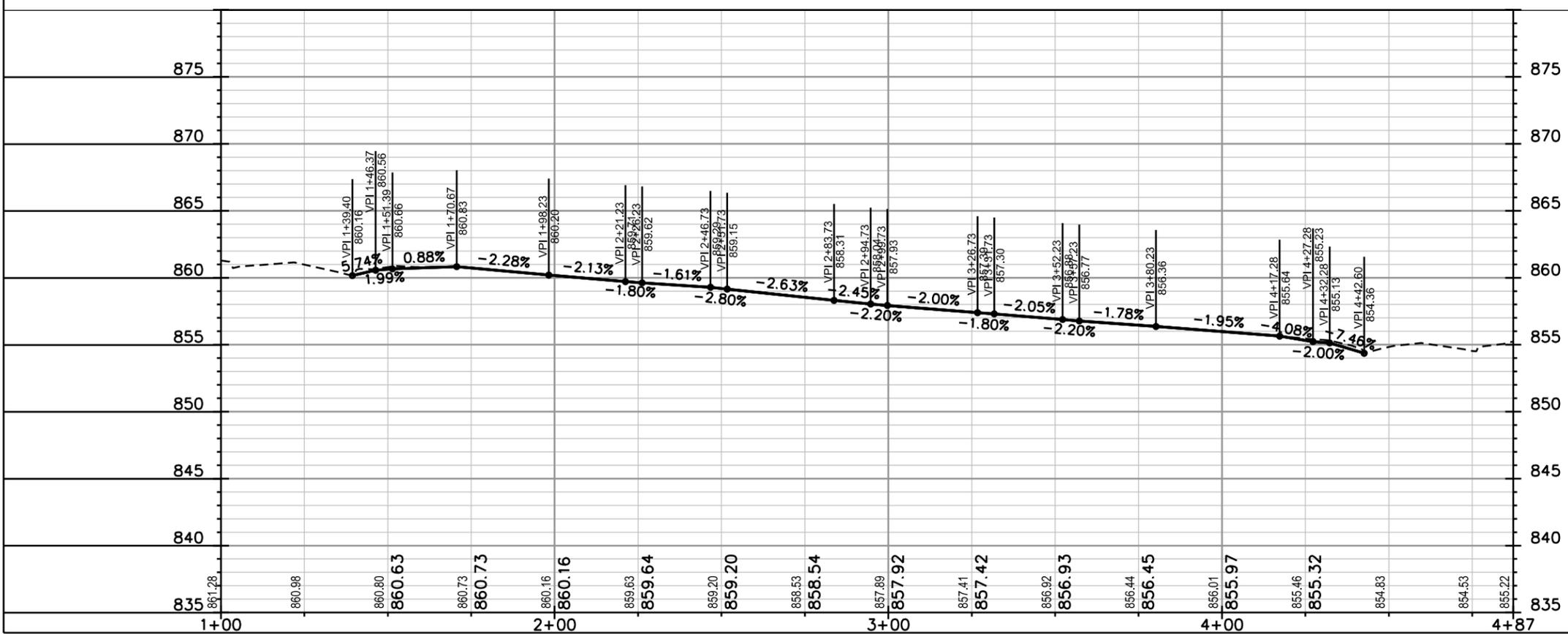
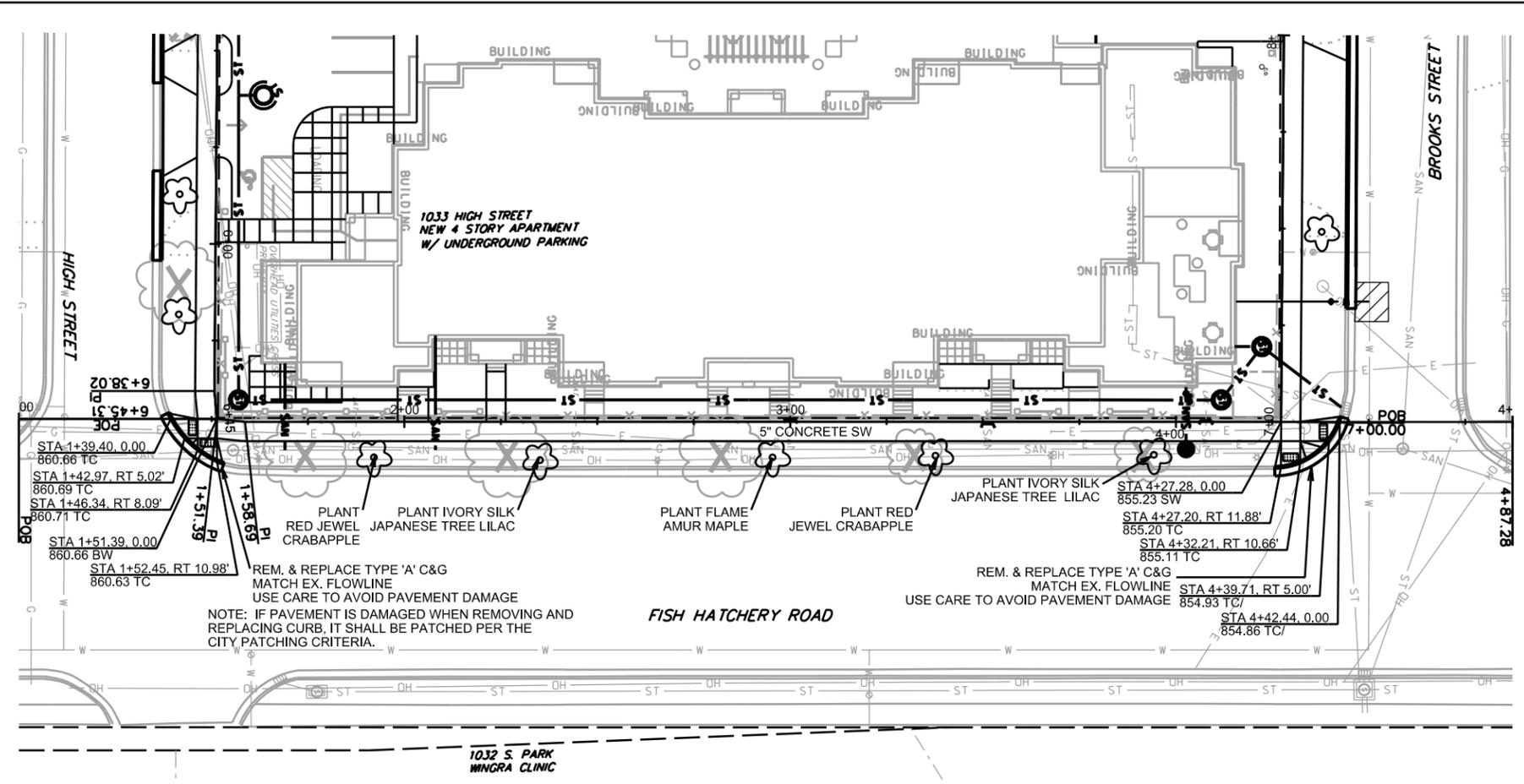
PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
FISH HATCHERY SIDEWALK CITY OF MADISON

NOTE: CONTRACTOR SHALL CONTACT CITY FORESTRY AT LEAST ONE WEEK PRIOR TO PLANTING TO MARK THE TREE LOCATIONS, SCHEDULE TREE INSPECTION AND REVIEW PLANTING SPECIFICATIONS WITH LANDSCAPE CONTRACTOR.

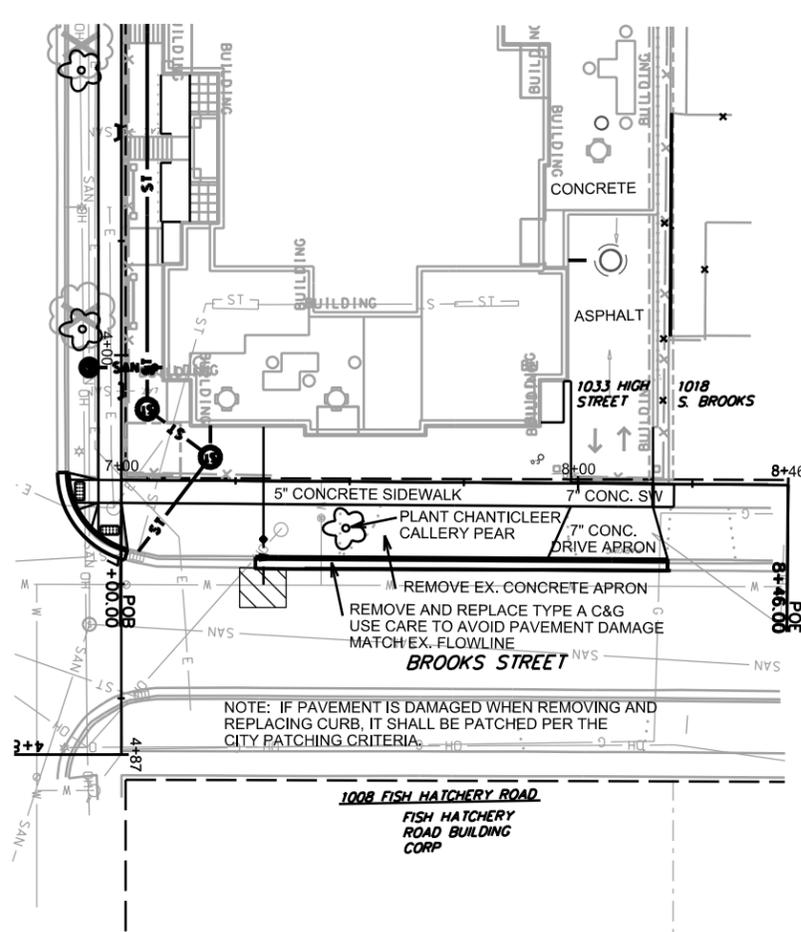


PLOT SCALE: \_\_\_\_\_  
PLOT NAME: \_\_\_\_\_  
REV. DATE: \_\_\_\_\_  
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

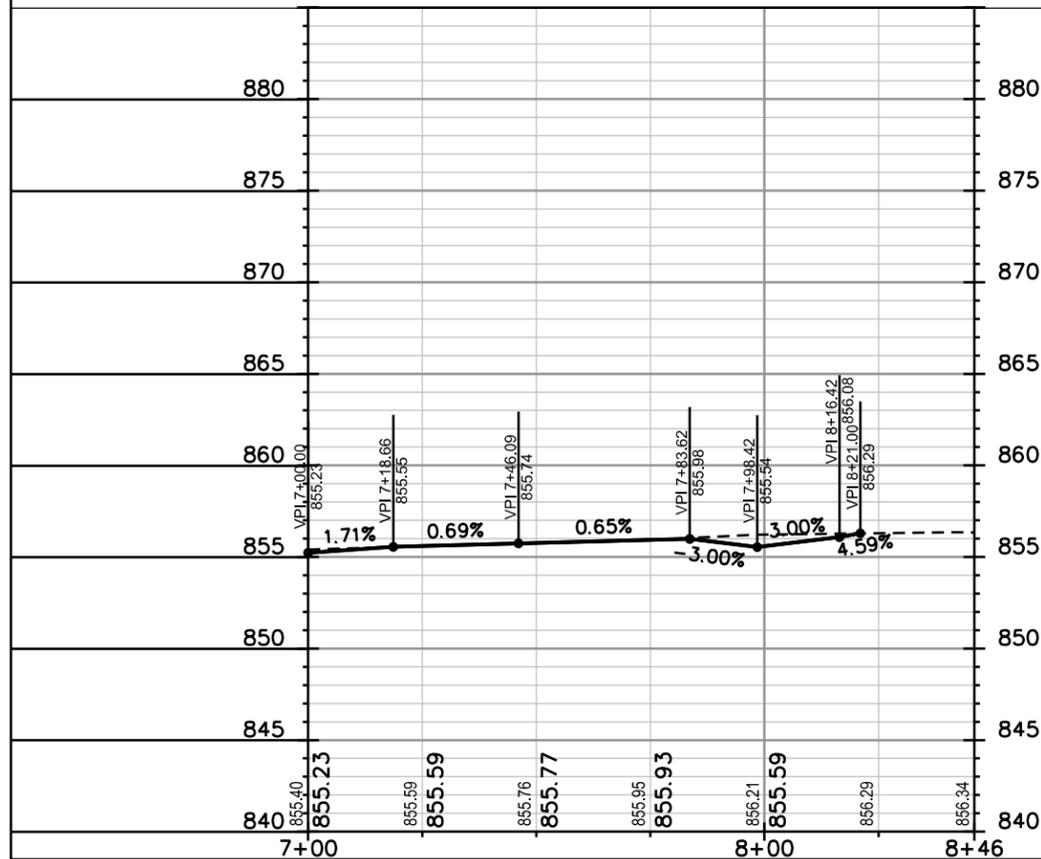


PLAN AND PROFILE  
BROOKS STREET SIDEWALK CITY OF MADISON

NOTE: CONTRACTOR SHALL CONTACT CITY FORESTRY AT LEAST ONE WEEK PRIOR TO PLANTING TO MARK THE TREE LOCATIONS, SCHEDULE TREE INSPECTION AND REVIEW PLANTING SPECIFICATIONS WITH LANDSCAPE CONTRACTOR.



NOTE: IF PAVEMENT IS DAMAGED WHEN REMOVING AND REPLACING CURB, IT SHALL BE PATCHED PER THE CITY PATCHING CRITERIA.

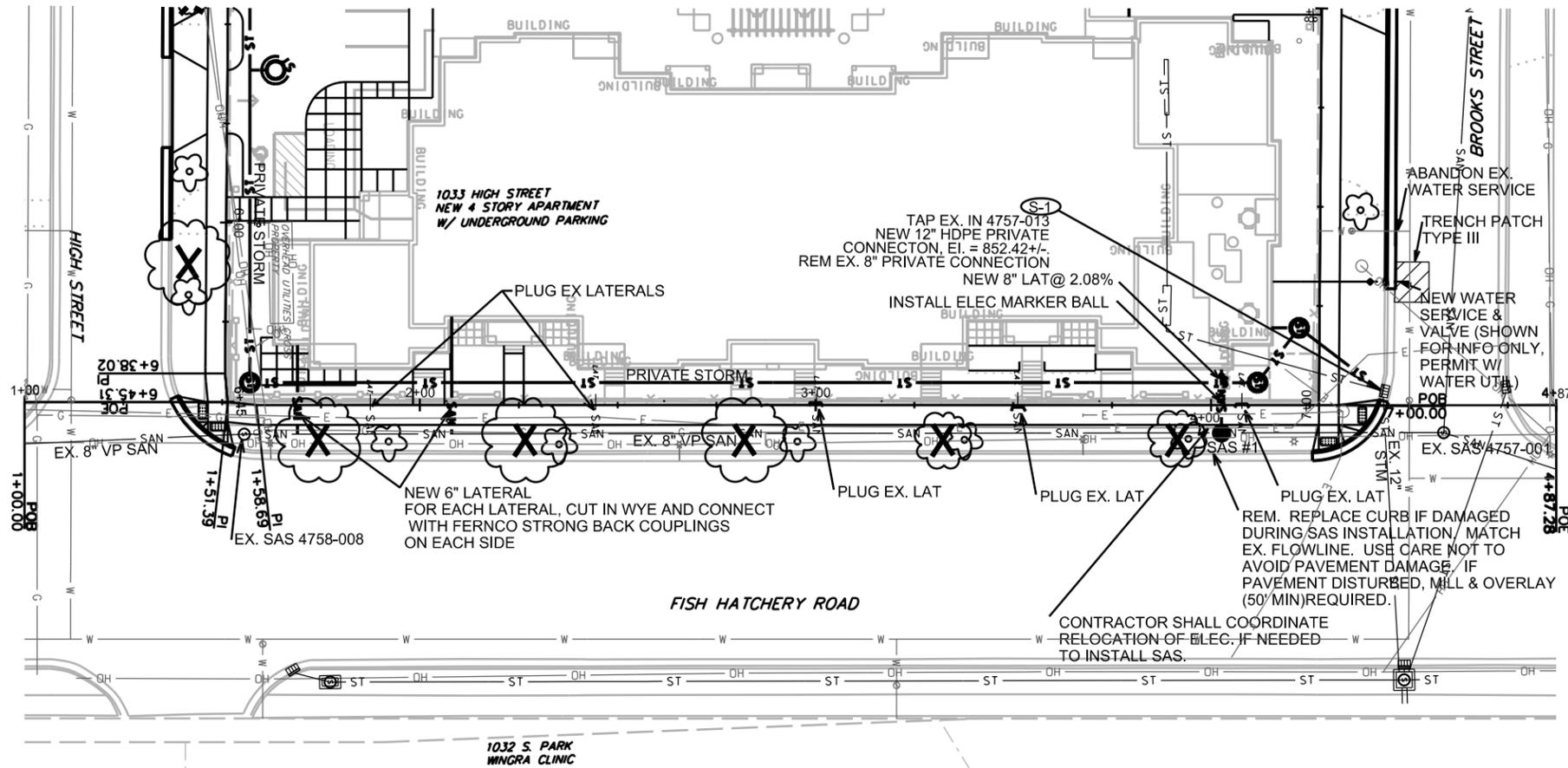


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTES:

1. CONTRACTOR TO PROVIDE TEMPORARY ASPHALT PATCH ON ANY SIDEWALKS THAT REMAIN OPEN TO PEDESTRIANS DURING CONSTRUCTION, AS DIRECTED BY CONSTRUCTION ENGINEER, IMMEDIATELY FOLLOWING UTILITY WORK.
2. CONTRACTOR SHALL INSTALL ELECTRONIC MARKER BALLS AT THE PROPERTY LINE ABOVE NEW SANITARY LATERALS.
3. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW TO TRAFFIC ENGINEERING PRIOR TO WORK BEGINNING.

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

