

Madison, Wisconsin

INDEX OF SHEETS

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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	
COMBUSTIBLE FLUIDS	

CONSTRUCTION
PROJECT LOCATION

NOTES:

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

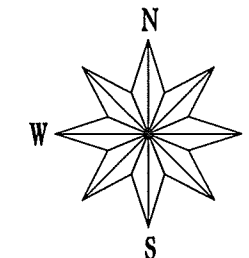
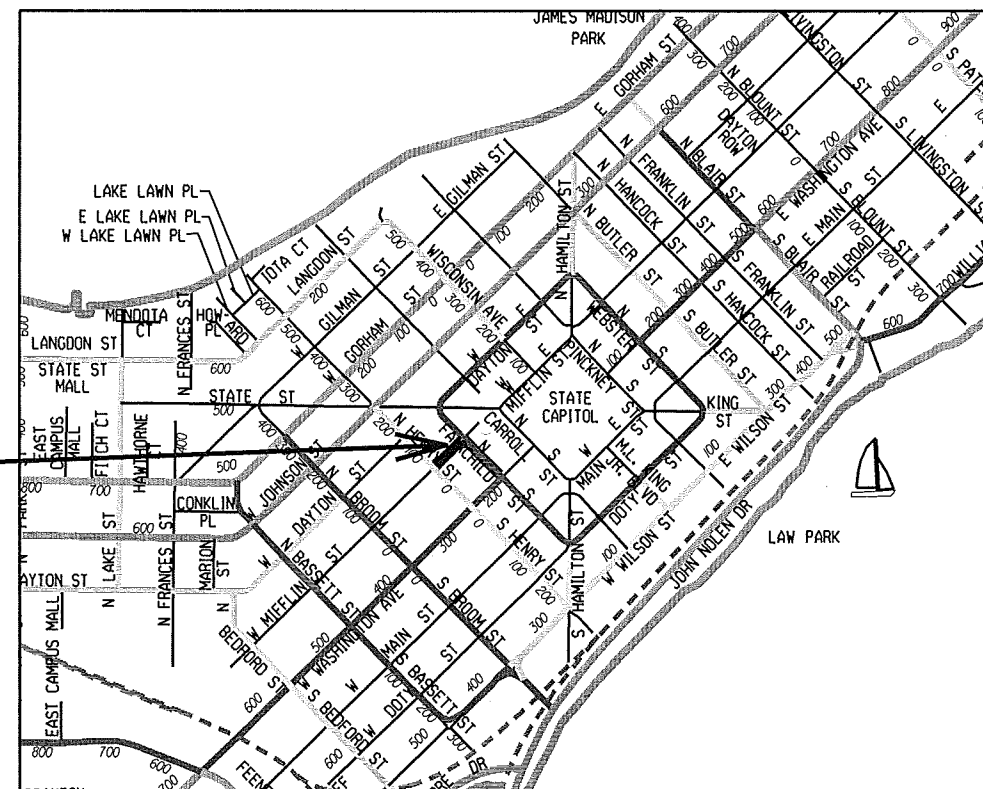
SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS
SHALL HAVE A MAXIMUM SLOPE OF 1" PER
12". SIDEWALK AND CURB RAMPS SHALL BE
CONSTRUCTED WITH A SIDE SLOPE OF 2.00%.
SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL
SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL
SLOPE OF 5.00% EXCEPT WHERE STREET GRADES
EXCEED 5.00%.

CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

NORTH FAIRCHILD STREET AND WEST
MIFFLIN STREET ASSESSMENT DISTRICT – 2013

CITY PROJECT NO. 53W1132

CITY CONTRACT NO. 6783



EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY).....682 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT.....180 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....862 C.Y.

PUBLIC IMPROVEMENT PROJECT
APPROVED

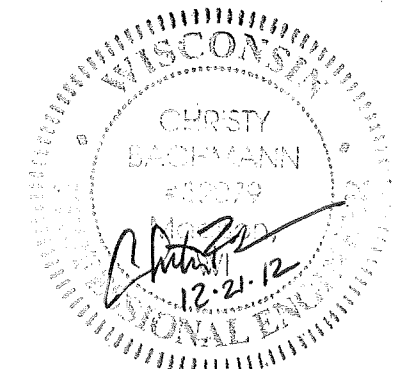
DECEMBER 11, 2012

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

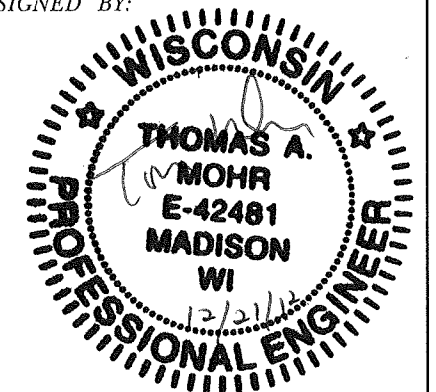
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Christy Bachman 12-28-12
City Engineer Date

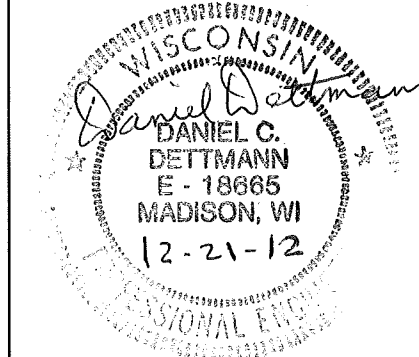
STREET
DESIGNED BY:



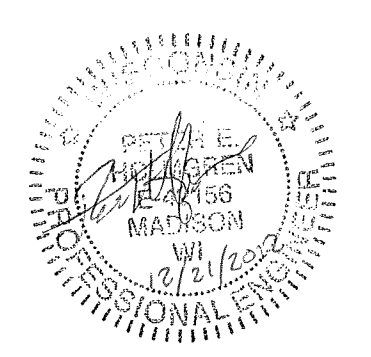
TRAFFIC CONTROL &
PAVEMENT MARKINGS
DESIGNED BY:

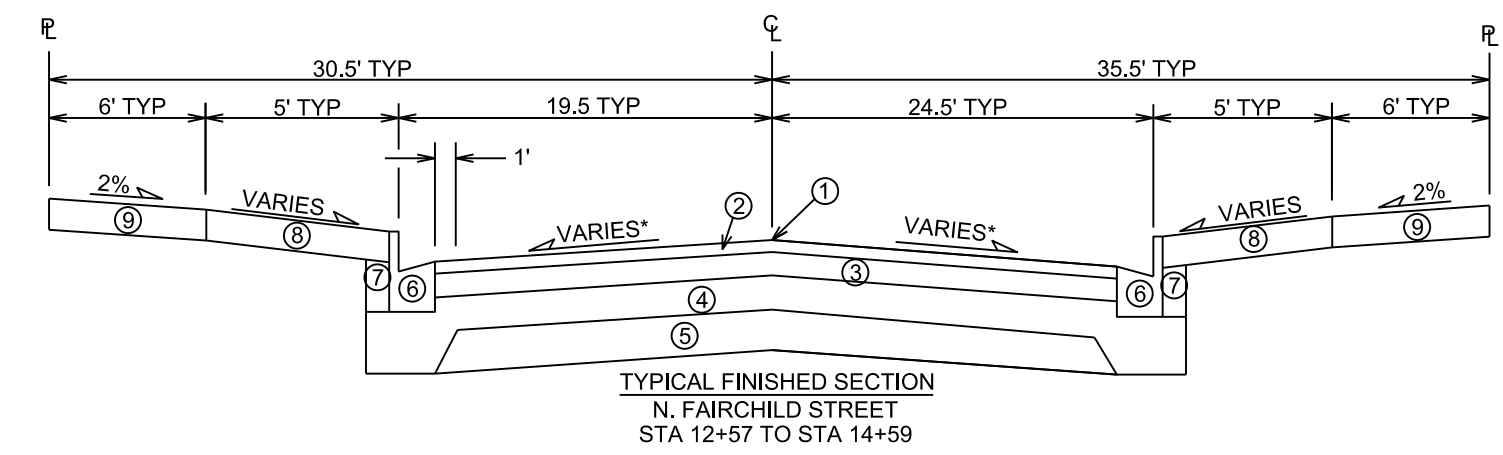


ELECTRICAL
DESIGNED BY:



WATER
DESIGNED BY:

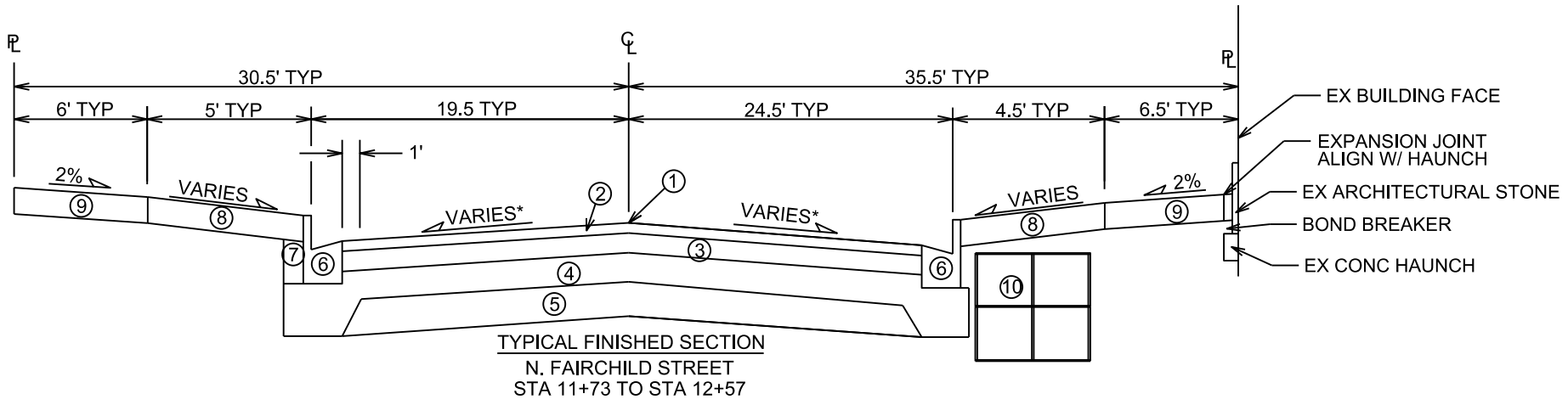




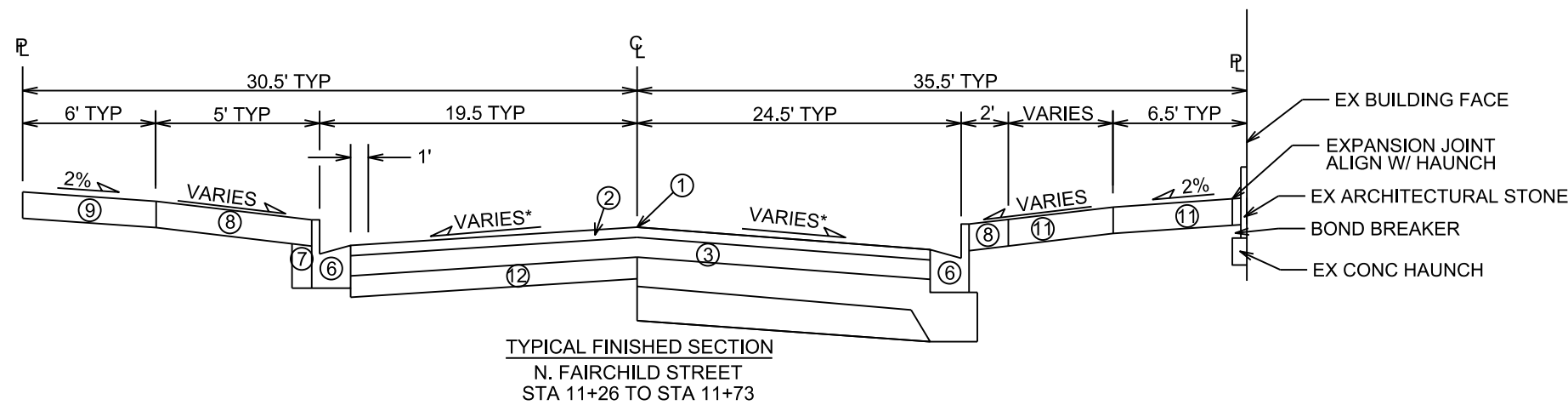
- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, TYPE E-3
- ③ 3 1/4" BITUMINOUS LOWER LAYER, TYPE E-3
- ④ 4" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- ⑧ 5" CONCRETE TERRACE
- ⑨ 5" CONCRETE SIDEWALK, REPLACE AS NOTED IN PLAN
- ⑩ TERRACE SUPPORT SYSTEM, SEE SHEET D-3
- ⑪ 5" C1 CONCRETE
- ⑫ PULVERIZE & SHAPE EXISTING PAVEMENT

* SEE CROSS SECTION SHEETS FOR CROSS SLOPES AND TOP OF CURB ELEVATIONS.

TYPICAL SECTIONS NOT TO SCALE



- EX BUILDING FACE
- EXPANSION JOINT
ALIGN W/ HAUNCH
- EX ARCHITECTURAL STONE
- BOND BREAKER
- EX CONC HAUNCH



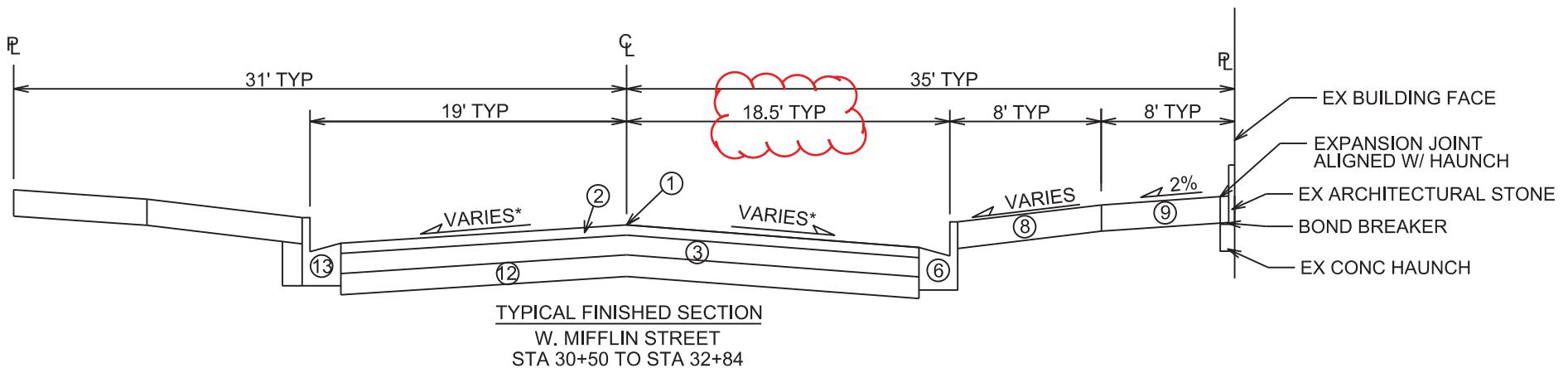
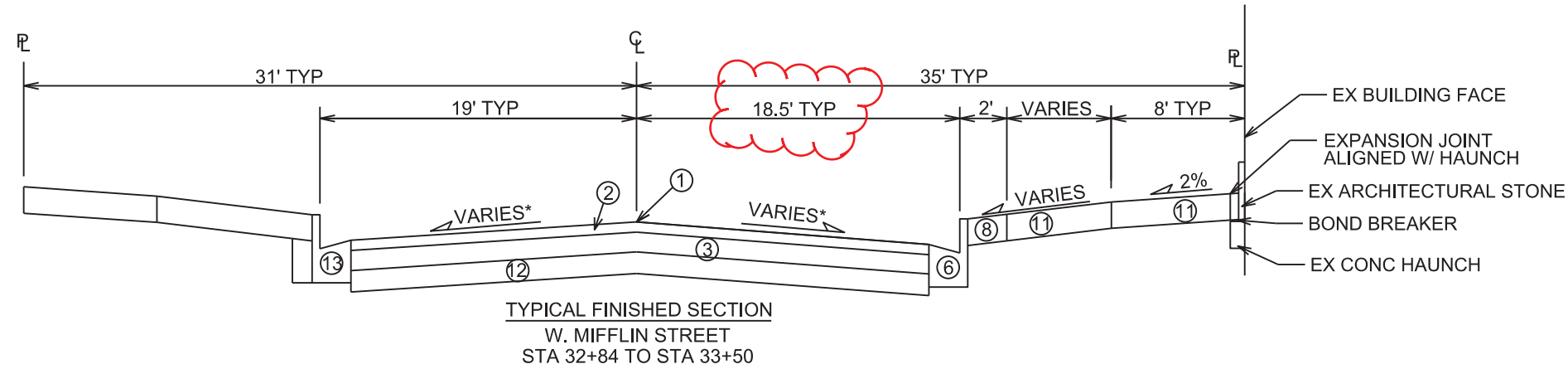
- EX BUILDING FACE
- EXPANSION JOINT
ALIGN W/ HAUNCH
- EX ARCHITECTURAL STONE
- BOND BREAKER
- EX CONC HAUNCH

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

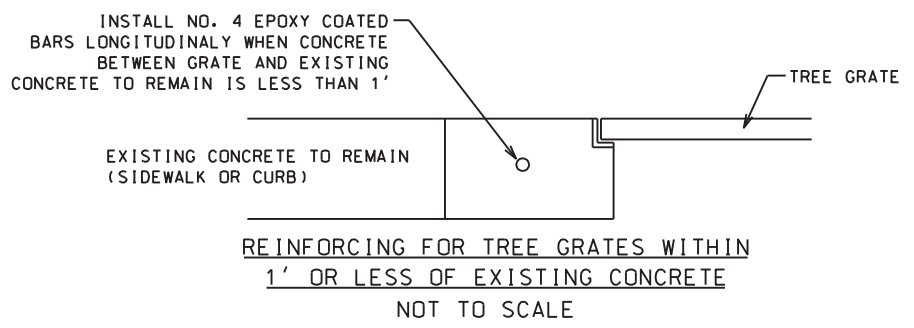
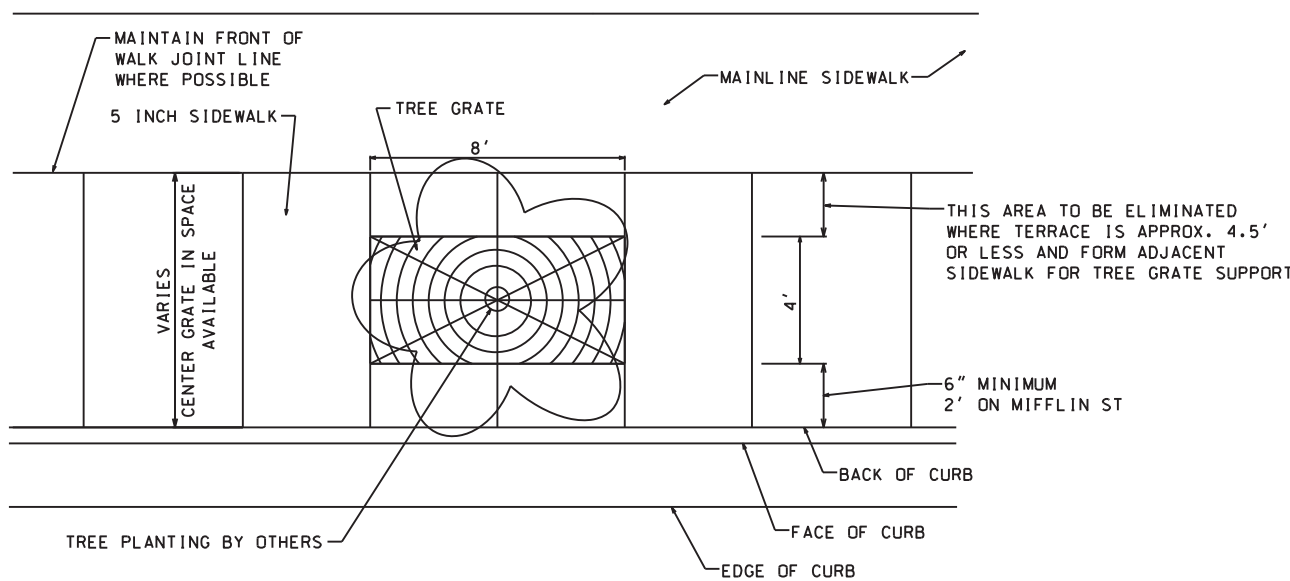


- ① POINT REFERRED TO ON PROFILE
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⑩ TERRACE SUPPORT SYSTEM, SEE SHEET D-3
⑪ 5" C1 CONCRETE
⑫ PULVERIZE & SHAPE EXISTING PAVEMENT
⑬ EXISTING CURB & GUTTER TO REMAIN

* SEE CROSS SECTION SHEETS FOR CROSS SLOPES AND TOP OF CURB ELEVATIONS.

TYPICAL SECTIONS NOT TO SCALE

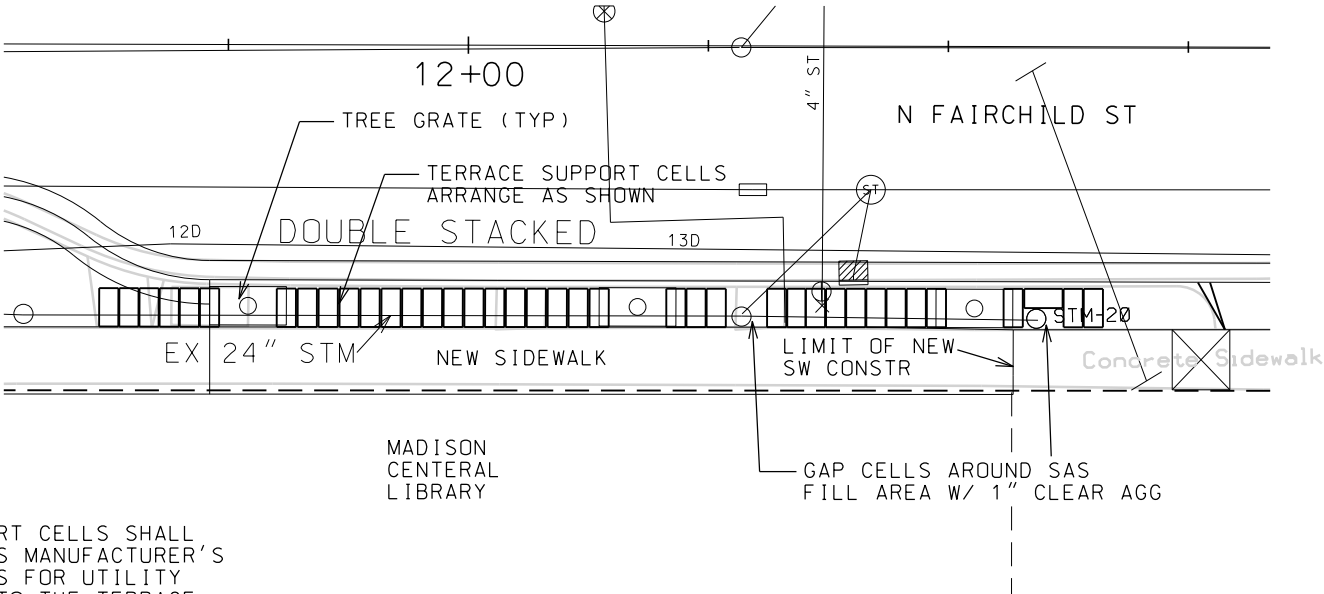
TREE GRATE INSTALLATION DETAIL
NOT TO SCALE



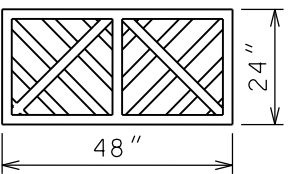
- NOTES:
1. TREE GRATE LOCATIONS TO BE VERIFIED WITH ENGINEER
 2. WHEN MATURE TREE IS OFF CENTER, VERIFY WITH ENGINEER TO DETERMINE EXPOSED AGGREGATE LIMITS & OPENING LOCATION
 3. VERIFY JOINT PATTERN WITH ENGINEER
 4. REFER TO S.D.D. 2.02 FOR BACKFILL DETAILS

TERRACE SUPPORT SYSTEM - PLAN

N FAIRCHILD & W MIFFLIN ASMT DIST PROJECT NO. 53W1132	SHEET NO. D-3
DETAILS	
TERRACE SUPPORT SYSTEM	CITY OF MADISON

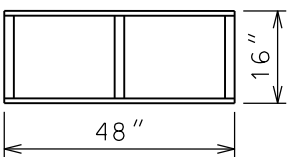


TOP OF CELLS (DECK)

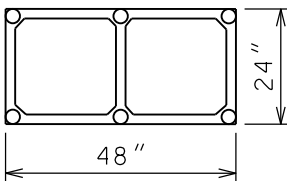


DECK INSTALLED ON TOP
LAYER ONLY

SIDE OF FRAME



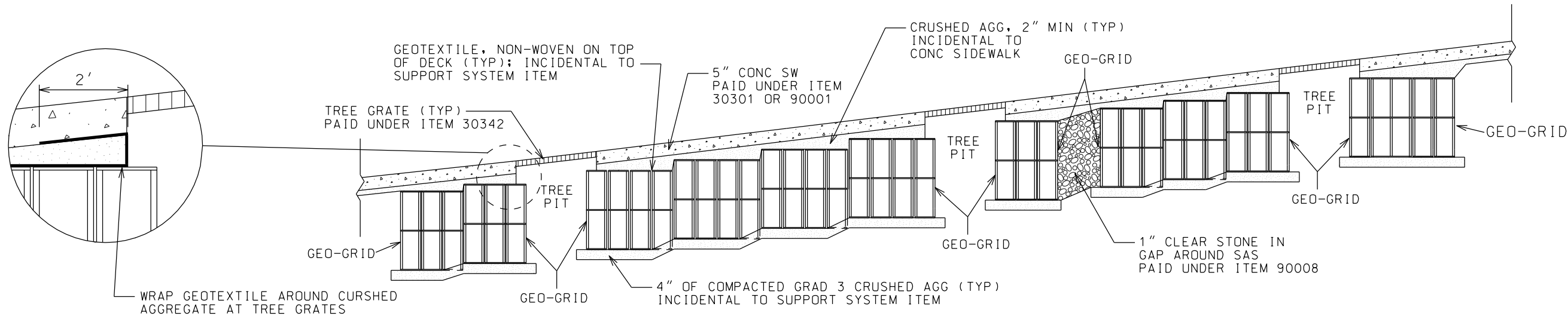
BOTTOM OF FRAME



NOTES:

1. ALL PERIMETERS OF TERRACE SUPPORT CELLS SHALL BE ENCLOSED W/ A GEOGRID THAT MEETS MANUFACTURER'S REQUIREMENTS, INCLUDING AROUND GAPS FOR UTILITY STRUCTURES. GEOGRID IS INCIDENTAL TO THE TERRACE SUPPORT SYSTEM
2. LEAVE 6' GAP CENTERED ON TREE GRATE FOR THE TREE PLANTING. TREE PLANTING TO BE COMPLETED IN FUTURE BY OTHERS.
3. BACKFILL ALL CELL AREAS & TREE PITS WITH TREE PLANTING BACKFILL PAID UNDER ITEM 90007.; BACKFILL IS TO REMAIN UNCOMPACTED
4. CONSTRUCT CELLS AROUND UTILITIES AS NECESSARY & PROVIDE NECESSARY SUPPORT.
5. SIDEWALK ADJACENT TO TREE GRATES SHALL BE FORMED AS NECESSARY TO INSTALL & SUPPORT TREE GRATES AND FRAMES.
6. 1" TO 3" HORIZONTAL GAP BETWEEN EACH CELL. KEEP GAPS CLOSER TO 1" WHEN POSSIBLE.
7. STEP THE SUBGRADE OF THE TERRACE SUPPORT SYSTEM AS SHOWN ON THE PROFILE.

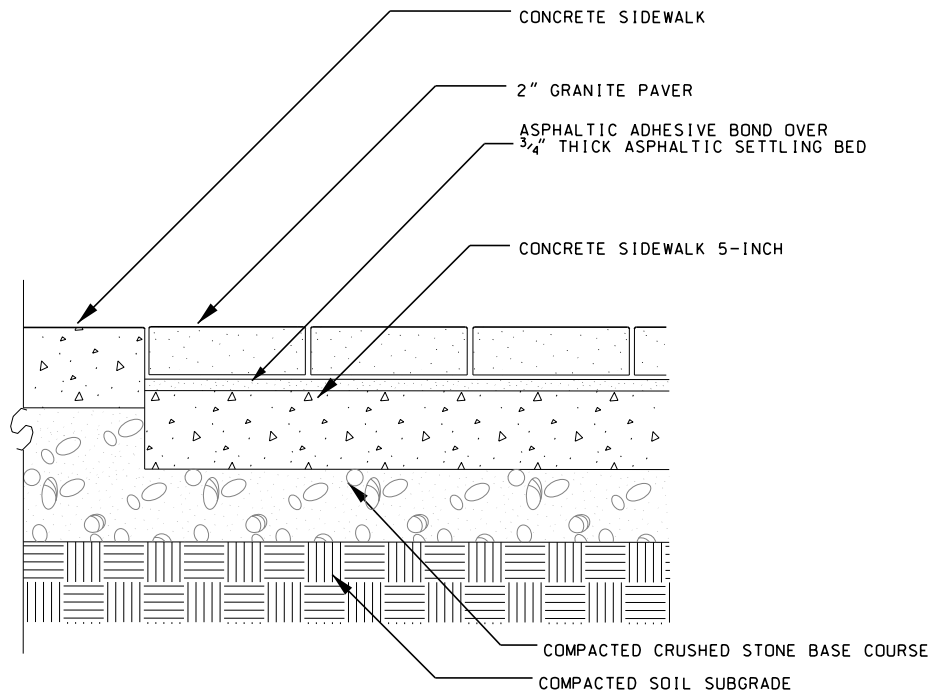
TERRACE SUPPORT SYSTEM - PROFILE



DETAILS

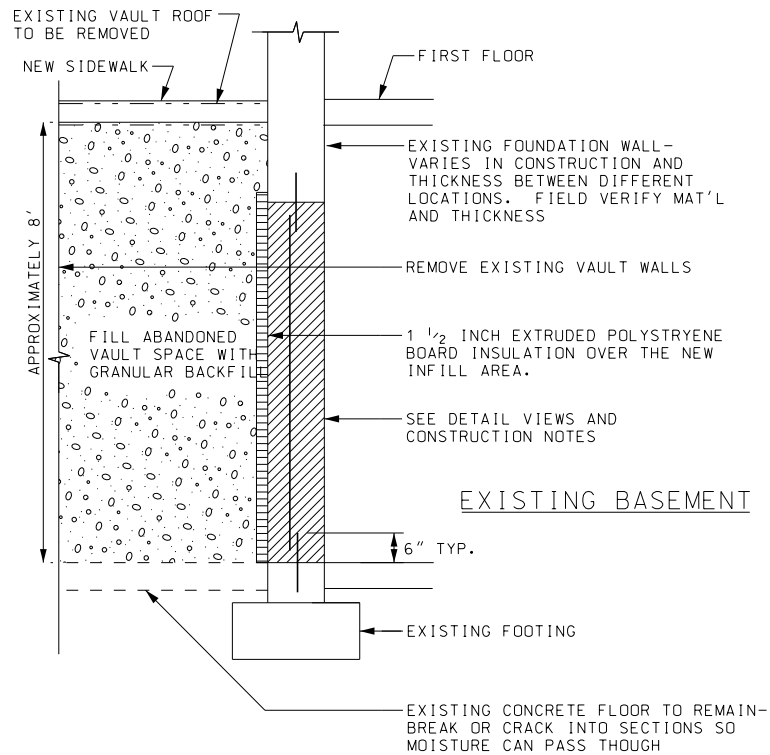
VAULT & PAVERS

CITY OF MADISON

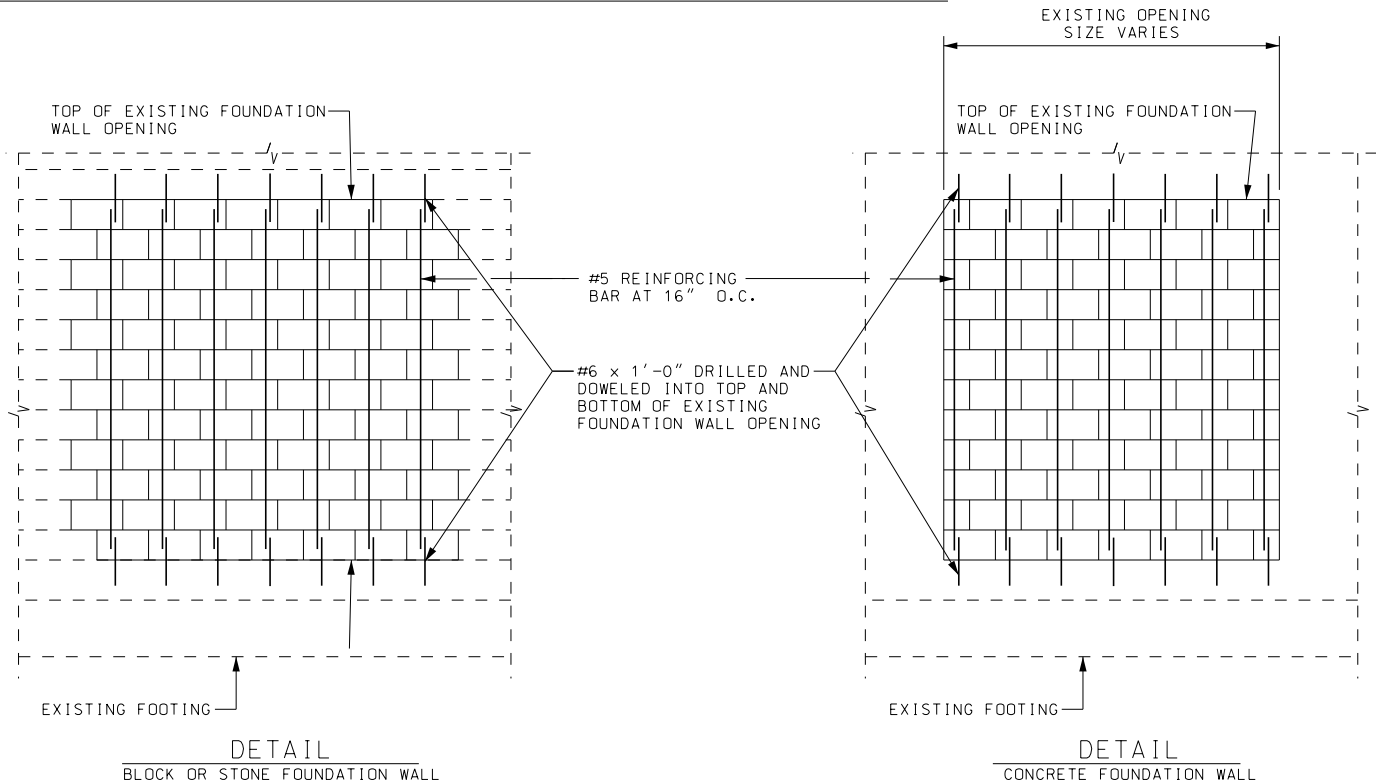


GRANITE PAVER DETAIL

(UNDISTRIBUTED) ABANDONED VAULT & VAULT WALL DETAIL



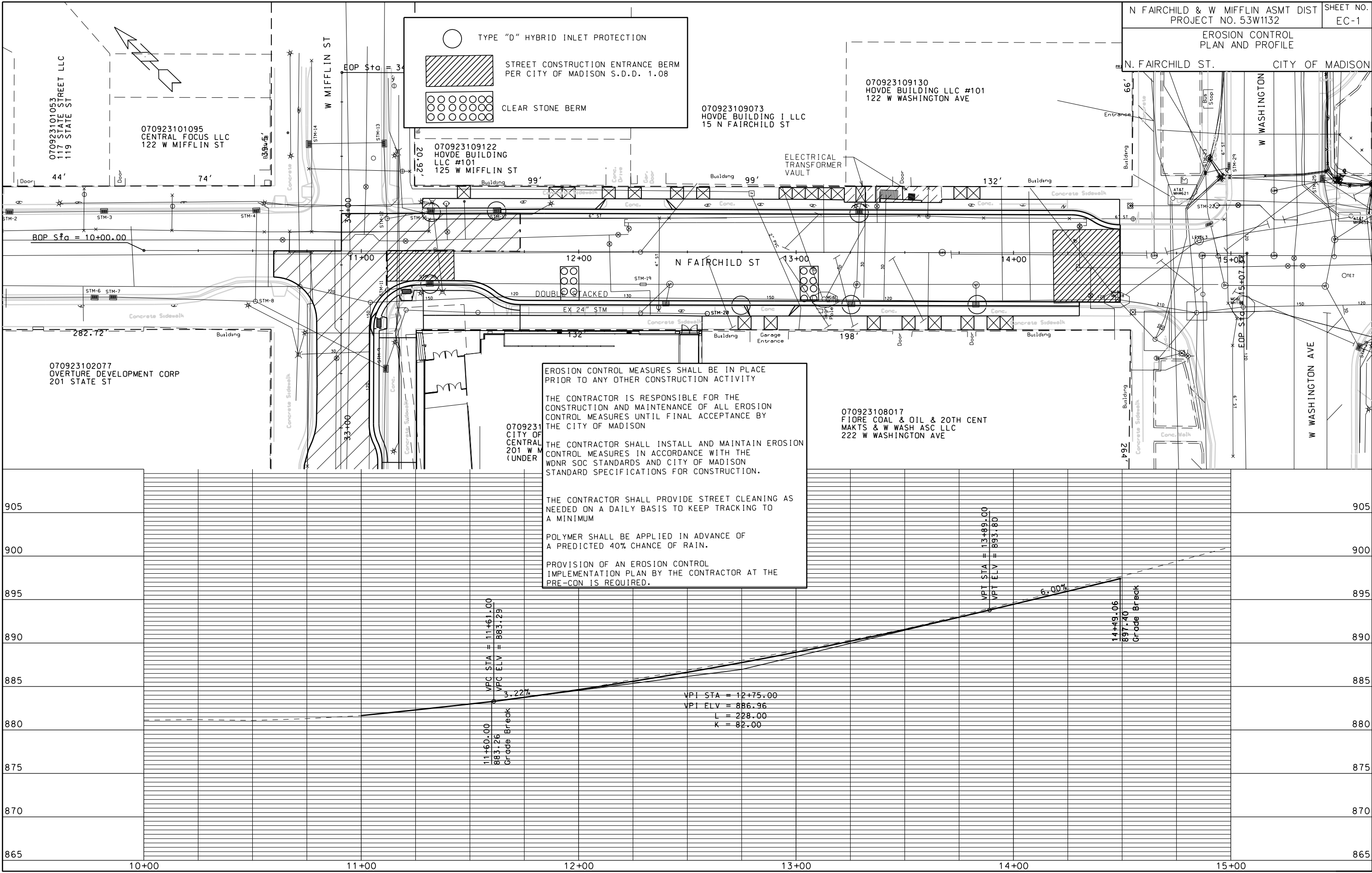
SECTION VIEW



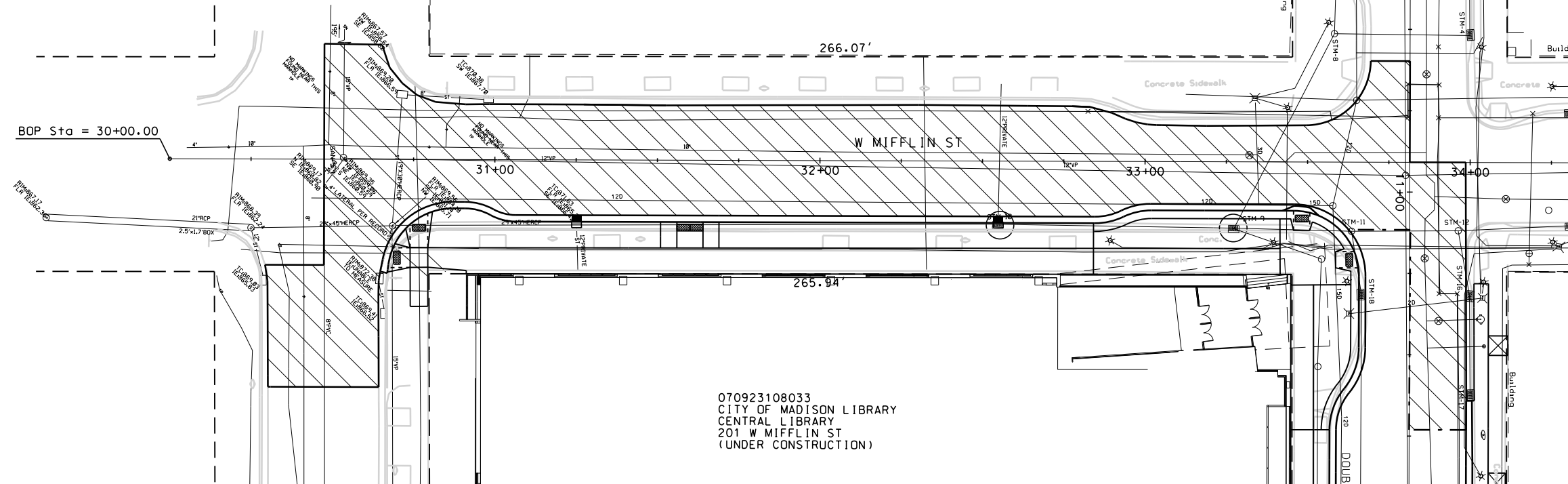
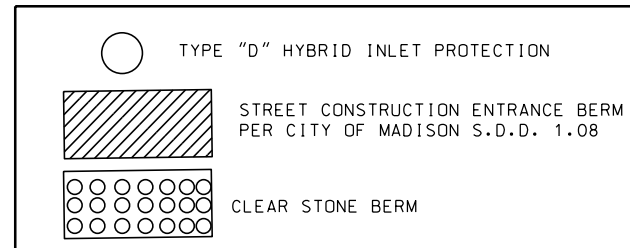
- CONSTRUCTION SEQUENCE:
1. REMOVE EXISTING VAULT CONCRETE ROOF, DOOR AND FRAME.
 2. DRILL AND DOWEL #6 BARS x 1'-0" LONG INTO THE TOP AND BOTTOM OF FOUNDATION WALL OPENING AND GROUT SOLID.
 3. CLOSE DOOR OPENING WITH MASONRY UNITS. MATCH WIDTH OF EXISTING WALL. PER SECTION 519 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS. USE TYPE N PORTLAND AND LIME MORTAR. USE HOT DIPPED GALVANIZED HORIZONTAL JOINT REINFORCEMENT AT 16" O.C.
 4. THE EXTERIOR SURFACE OF THE MASONRY SHALL BE PARGED AND DAMP PROOFED..
 5. BREAK/CRACK EXISTING CONCRETE VAULT FLOOR.
 6. REMOVE OUTER WALLS OF VAULT.
 7. FILL VAULT WITH GRANULAR BACKFILL PER SECTION 209 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS.

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

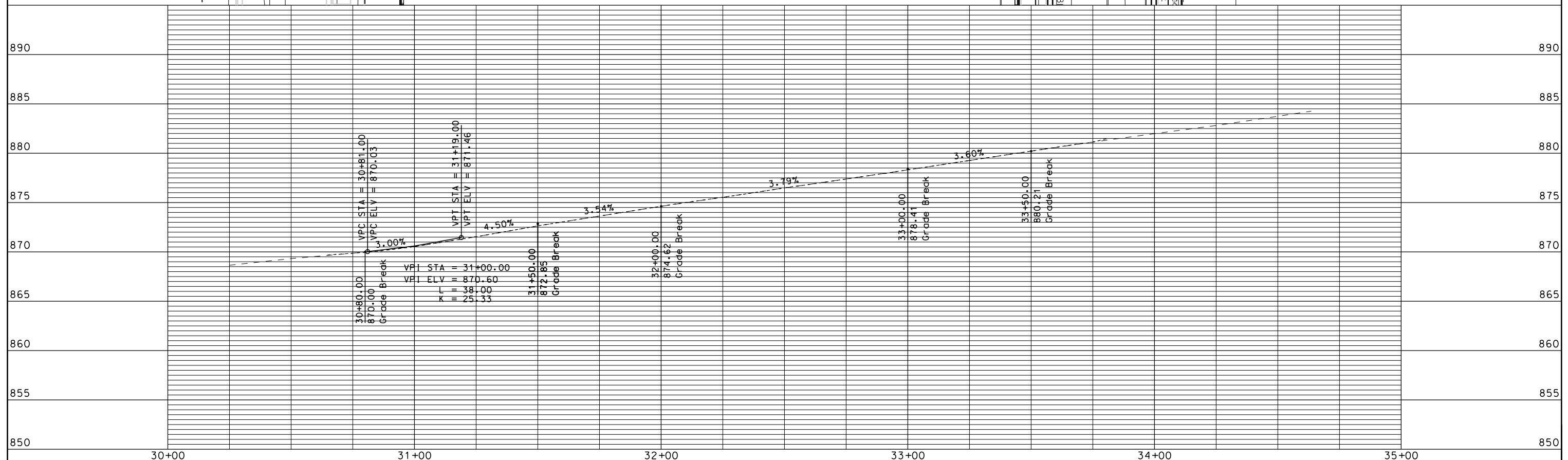
REV. DATE: PLOT NAME: PLOT SCALE:

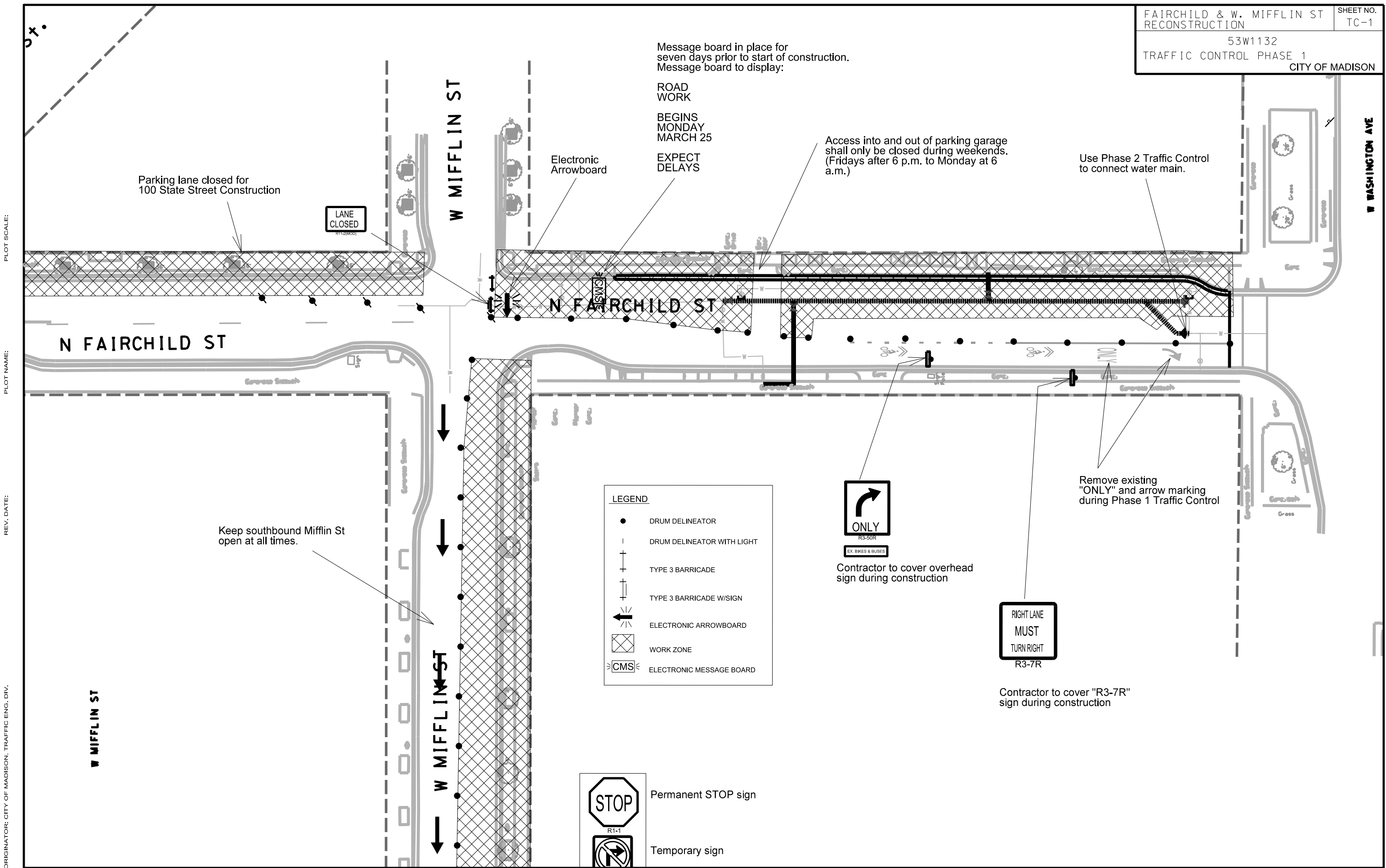


PROVISION OF AN EROSION CONTROL
IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE
PRE-CON IS REQUIRED.



070923108033
CITY OF MADISON LIBRARY
CENTRAL LIBRARY
201 W MIFFLIN ST
(UNDER CONSTRUCTION)





PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

LEGEND

- DRUM DELINEATOR
- | DRUM DELINEATOR WITH LIGHT
- + TYPE 3 BARRICADE
- + TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊠ WORK ZONE
- ⌈CMS⌋ ELECTRONIC MESSAGE BOARD

Keep southbound Mifflin St
open at all times.

Coordinate with Library construction to
maintain temporary signs to keep northbound
Mifflin St closed between Henry St
and Fairchild St.

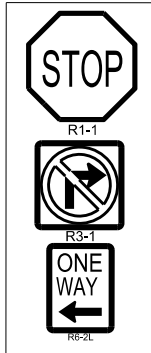
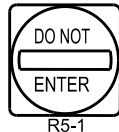
Temporary sign
back-to-back with STOP sign

N HENRY ST

ROAD CLOSED
TO
THRU TRAFFIC

N Henry St may be closed from
9:00 a.m. to 3:30 p.m. during paving
operations on N Henry St.

LANE
CLOSED



Permanent STOP sign

Temporary sign

Temporary sign

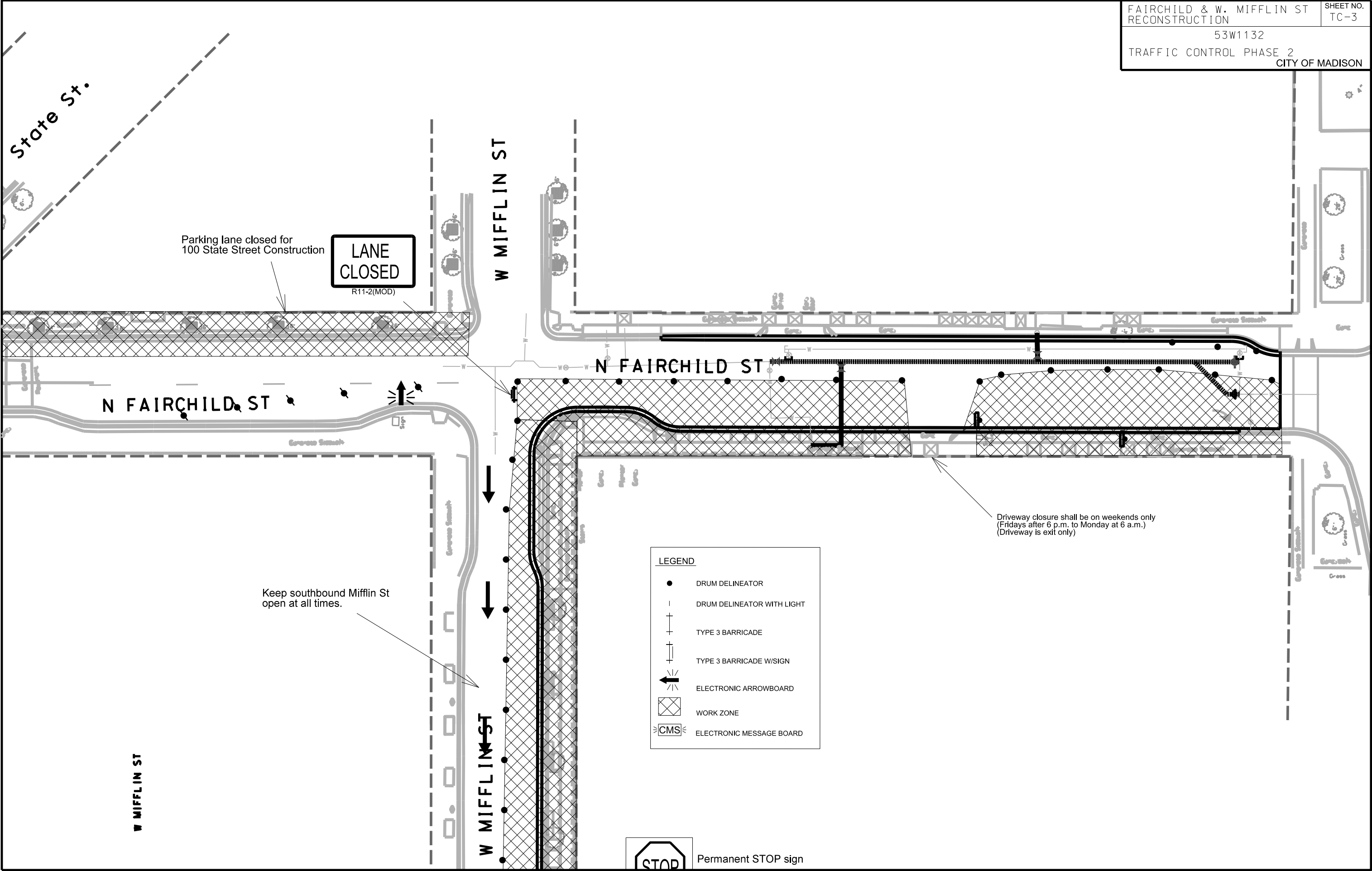
Permanent Sign

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



LEGEND

●

DRUM DELINEATOR

|

DRUM DELINEATOR WITH LIGHT

+

TYPE 3 BARRICADE

+

TYPE 3 BARRICADE W/SIGN

←

ELECTRONIC ARROWBOARD

▨

WORK ZONE

⌵

ELECTRONIC MESSAGE BOARD

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

Keep southbound Mifflin St
open at all times.

W MIFFLIN ST

W MIFFLIN ST

N HENRY ST

Permanent STOP sign



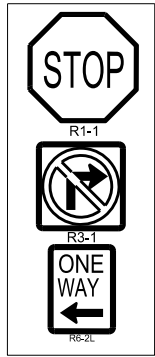
Temporary sign
back-to-back with STOP sign



Permanent Sign



Temporary signs



Permanent STOP sign

Temporary sign

Temporary sign



LANE
CLOSED



R11-4

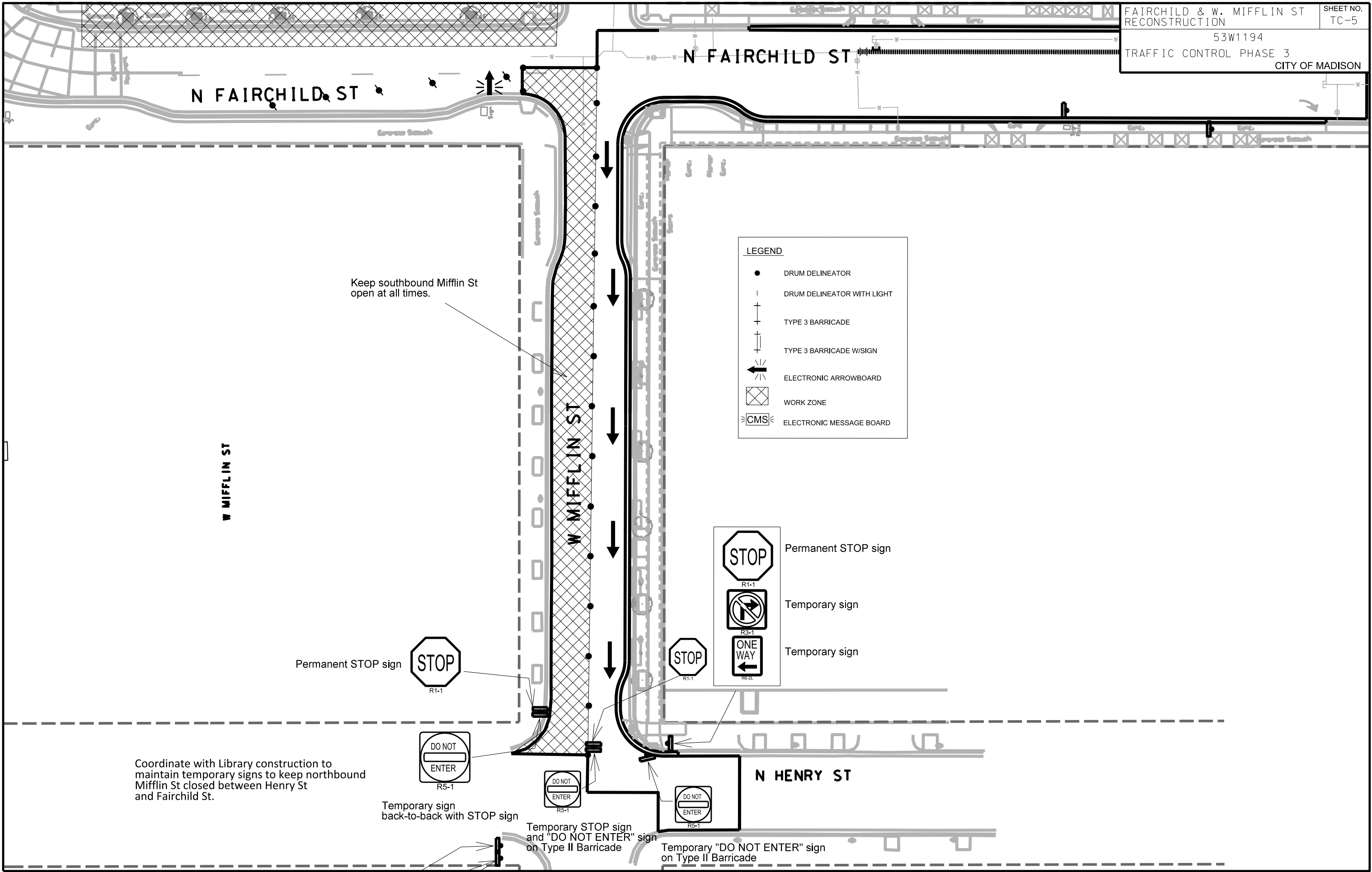
N Henry St may be closed from
9:00 a.m. to 3:30 p.m. during paving
operations on N Henry St.

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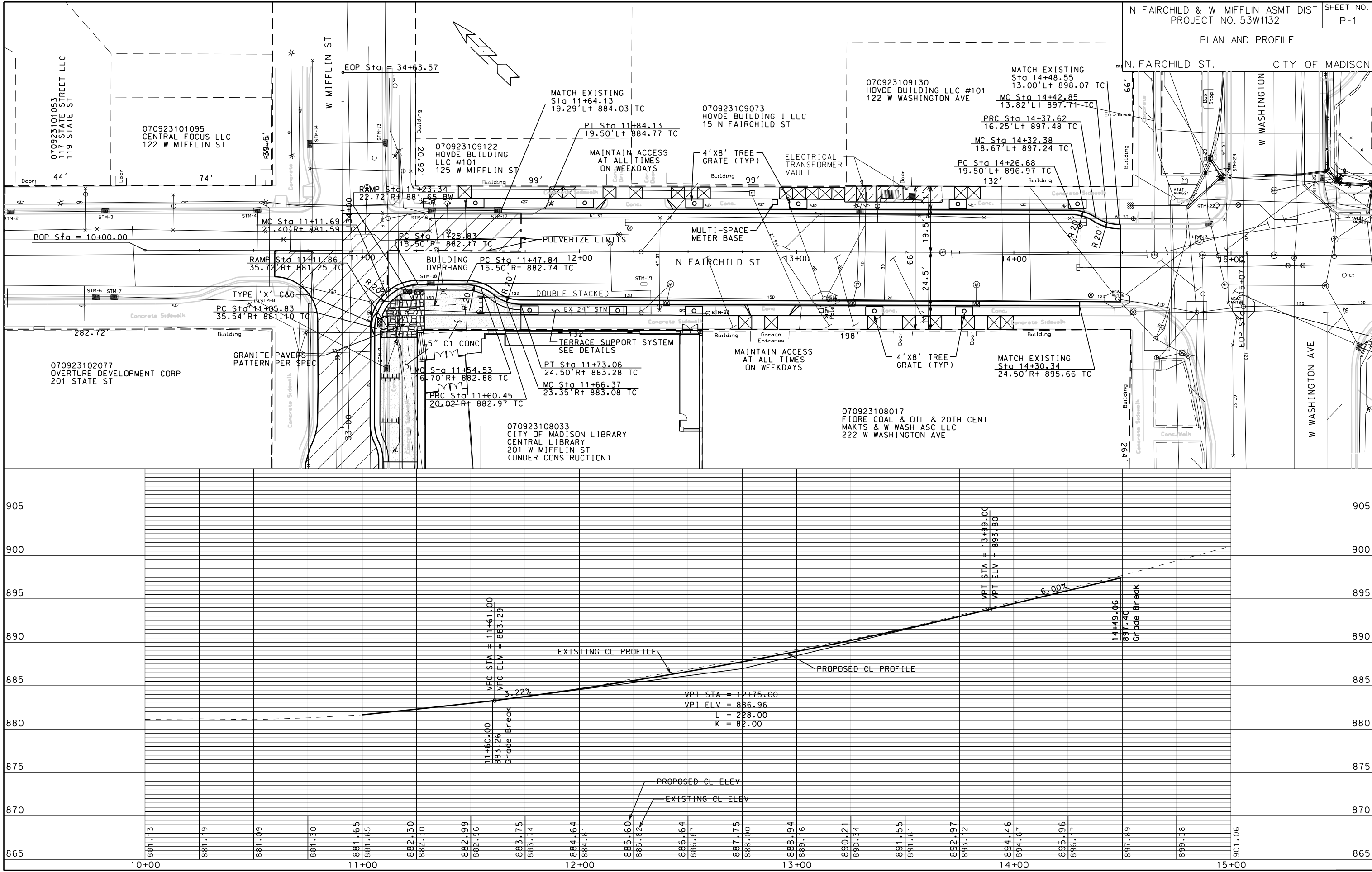


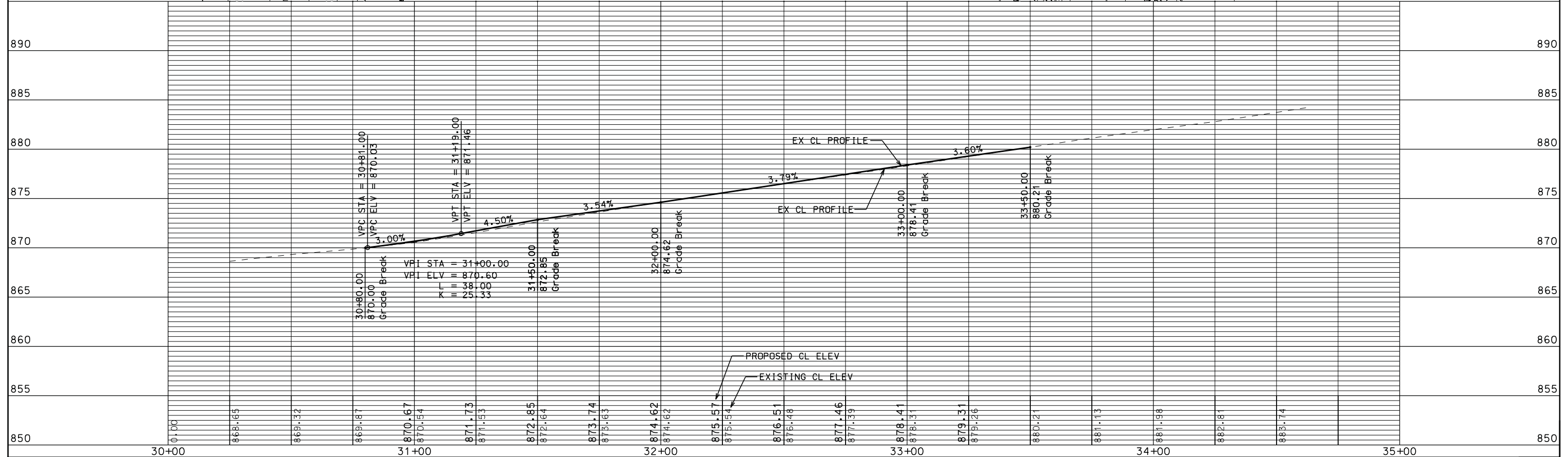
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

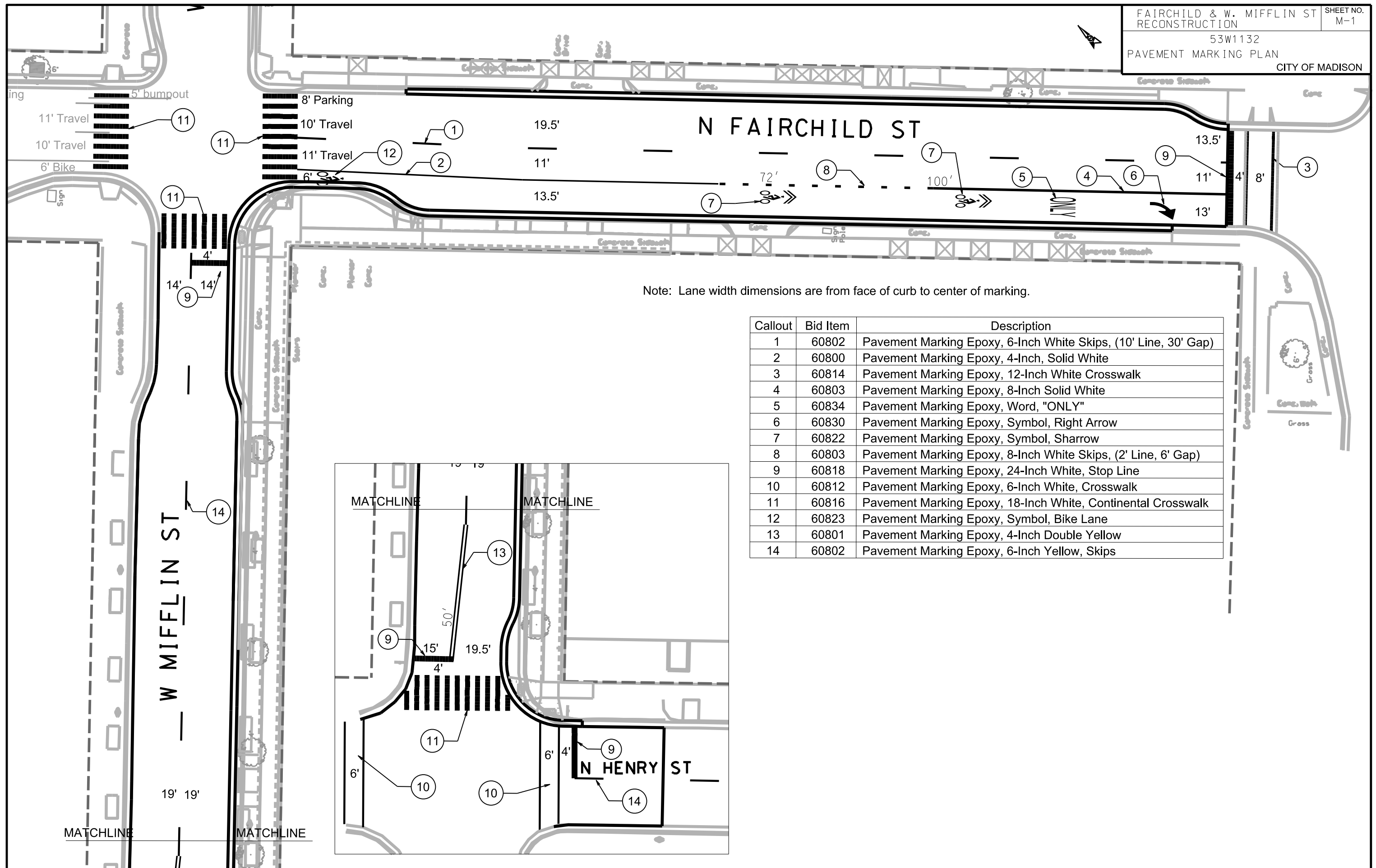
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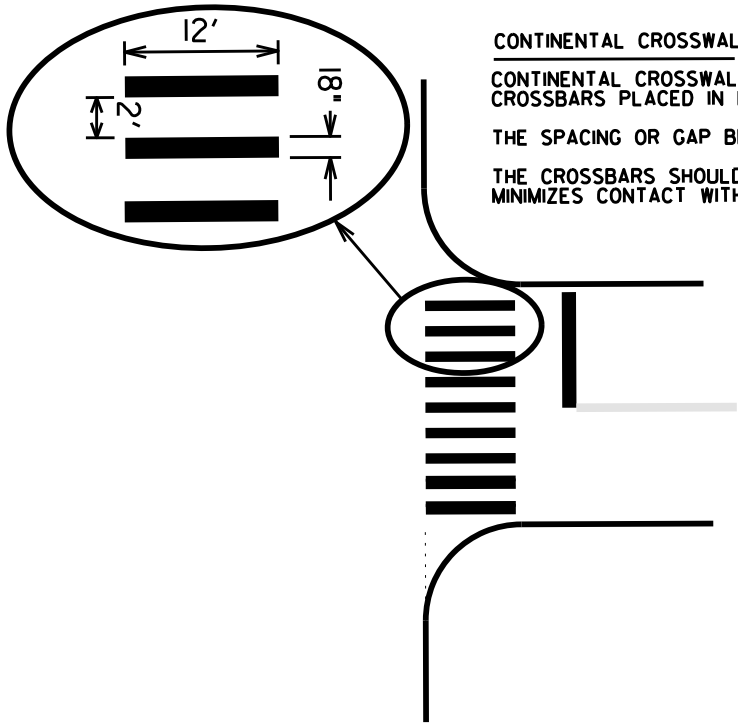
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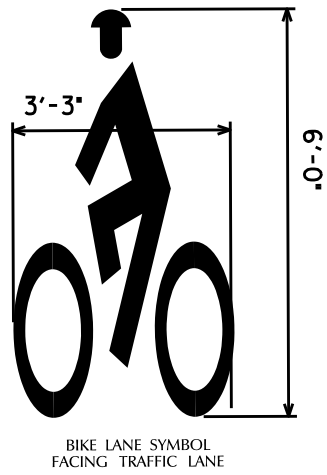
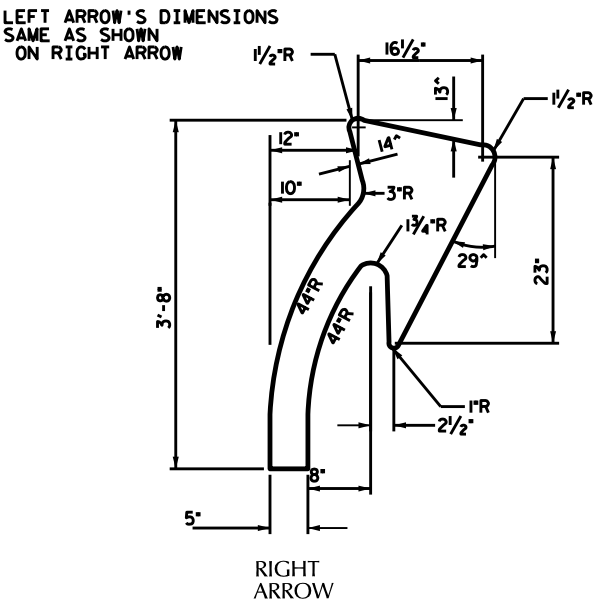


Callout	Bid Item	Description
1	60802	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	60800	Pavement Marking Epoxy, 4-Inch, Solid White
3	60814	Pavement Marking Epoxy, 12-Inch White Crosswalk
4	60803	Pavement Marking Epoxy, 8-Inch Solid White
5	60834	Pavement Marking Epoxy, Word, "ONLY"
6	60830	Pavement Marking Epoxy, Symbol, Right Arrow
7	60822	Pavement Marking Epoxy, Symbol, Sharrow
8	60803	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
9	60818	Pavement Marking Epoxy, 24-Inch White, Stop Line
10	60812	Pavement Marking Epoxy, 6-Inch White, Crosswalk
11	60816	Pavement Marking Epoxy, 18-Inch White, Continental Crosswalk
12	60823	Pavement Marking Epoxy, Symbol, Bike Lane
13	60801	Pavement Marking Epoxy, 4-Inch Double Yellow
14	60802	Pavement Marking Epoxy, 6-Inch Yellow, Skips

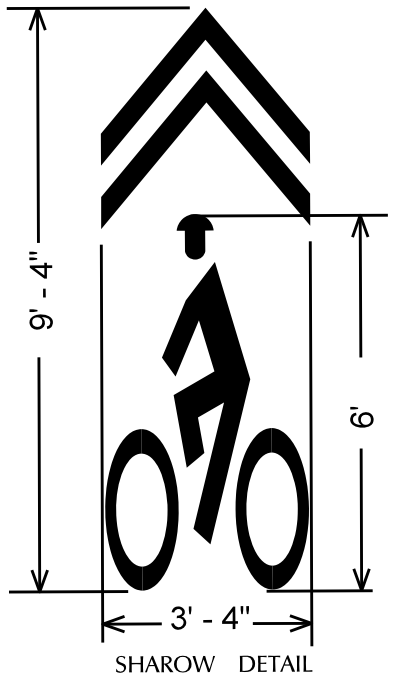


CONTINENTAL CROSSWALKS
CONTINENTAL CROSSWALKS HAVE 18 INCH WIDE 12 FOOT LONG CROSSBARS PLACED IN LINE WITH THE TRAFFIC FLOW.
THE SPACING OR GAP BETWEEN THE CROSSBARS IS 24 INCHES
THE CROSSBARS SHOULD BE PLACED IN A MANNER THAT MINIMIZES CONTACT WITH VEHICLES TIRES.

CONTINENTAL X-WALK &
STOP LINES DETAIL



BIKE LANE SYMBOL
FACING TRAFFIC LANE



SHAROW DETAIL

FULL SIZE PATTERNS FOR ARROWS &
WORD LEGENDS ARE AVAILABLE AT:
CITY OF MADISON TRAFFIC ENGINEERING
FIELD OPERATIONS FACILITY
1120 SAYLE ST. (608) 266-4767

Bike symbols always face left or away from the curb.

PLOT SCALE:

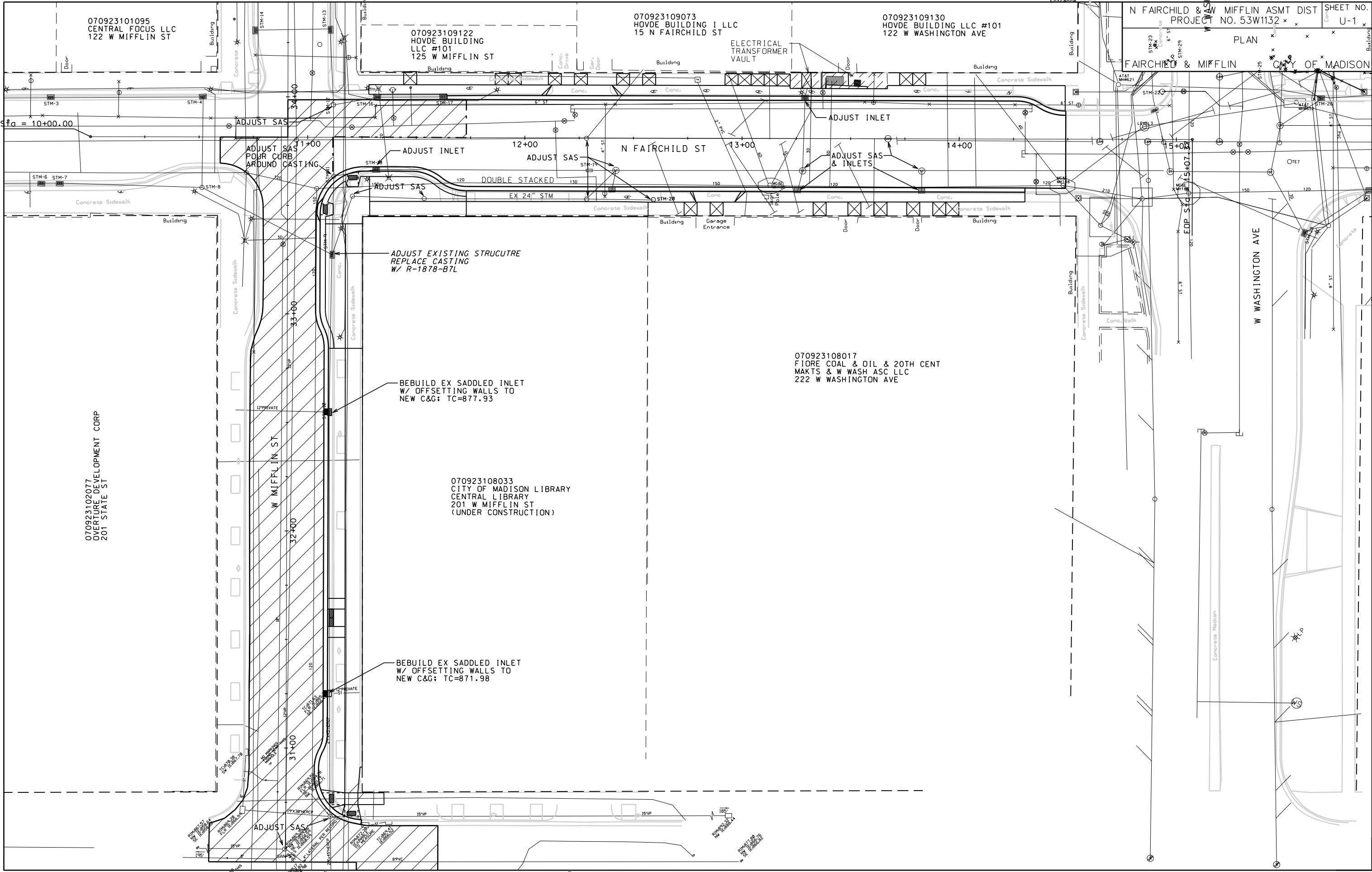
PLOT NAME:

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: PLOT NAME: PLOT SCALE:



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISTRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND ACCEPTED BY MADISON WATER UTILITY AND ALL SERVICES ARE RECONNECTED.
5. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

WN1 - REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.

WN2 - EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.

WN3 - EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.

WN4 - DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.

WN5 - RELOCATE THE EXISTING FIRE HYDRANT.

WN6 - ABANDON WATER VALVE ACCESS STRUCTURE.

WN7 - FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.

WN8 - ABANDON THE VALVE BOX.

WN9 - FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.

WN10 - REMOVE AND SALVAGE EXISTING HYDRANT

WN11 - REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

20-FT - 6-IN PIPE	1 - 10-IN X 6-IN TEE
50-FT - 8-IN PIPE	1 - 10-IN X 8-IN TEE
220-FT - 10-IN PIPE	
10-FT - 12-IN PIPE	2 - 8-IN 90° BEND
	2 - 10-IN 45° BEND
335-FT - POLYWRAP	
1 - 5-IN HYDRANT (TEMP.)	1 - 6-IN MJ PLUG
	1 - 10-IN MJ PLUG
	1 - 10-IN CAP
1 - 6-IN VALVE AND BOX	
1 - 8-IN VALVE AND BOX	1 - 12-IN X 10-IN REDUCER
1 - 10-IN VALVE AND BOX	
	1 - 6-IN X 12-IN OFFSET (AS REQ'D)
	1 - 8-IN X 12-IN OFFSET (AS REQ'D)
	16-FT - 2-IN THICK STYROFOAM INSULATION

MATERIALS SUPPLIED BY CITY:

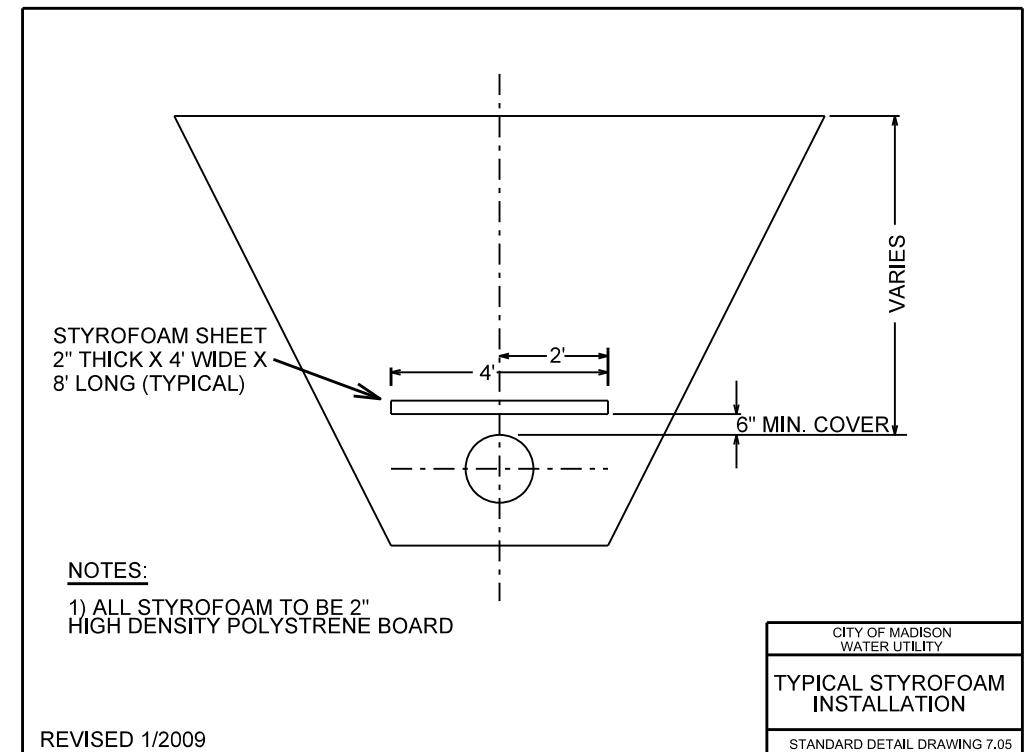
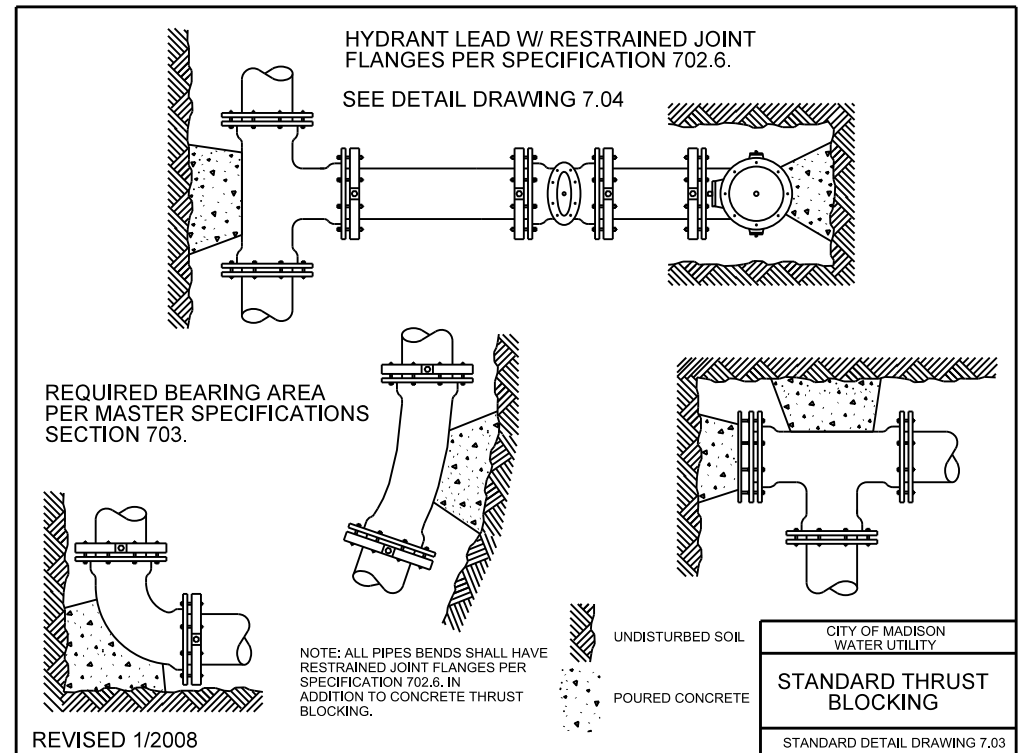
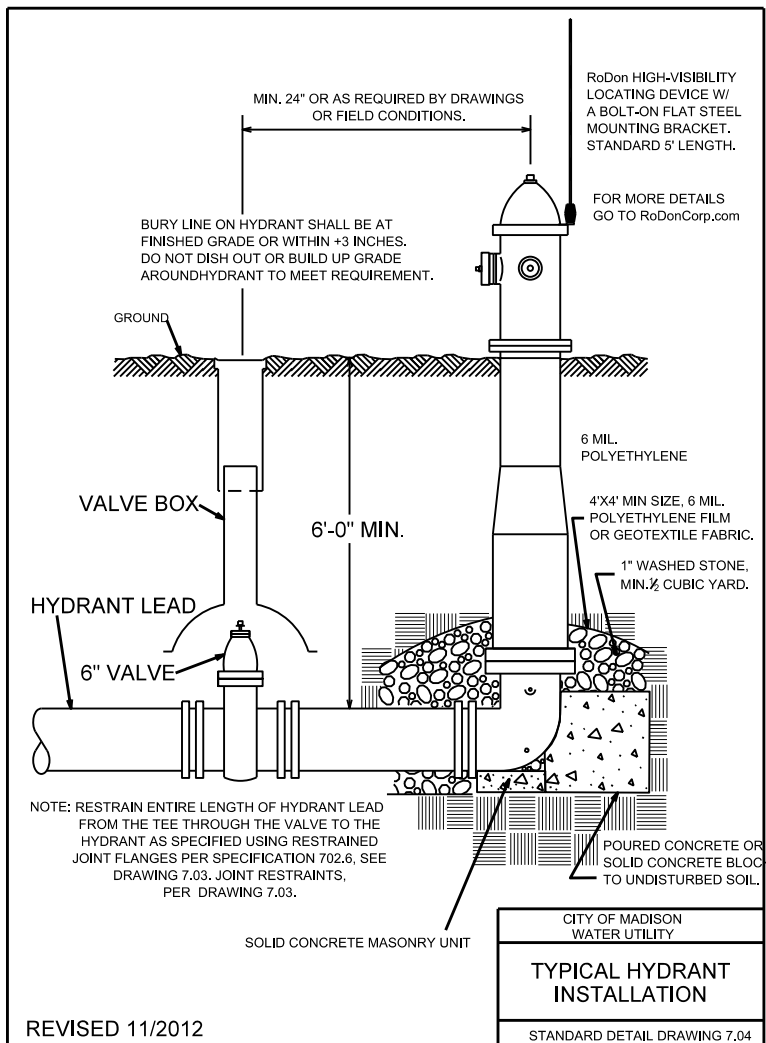
NONE

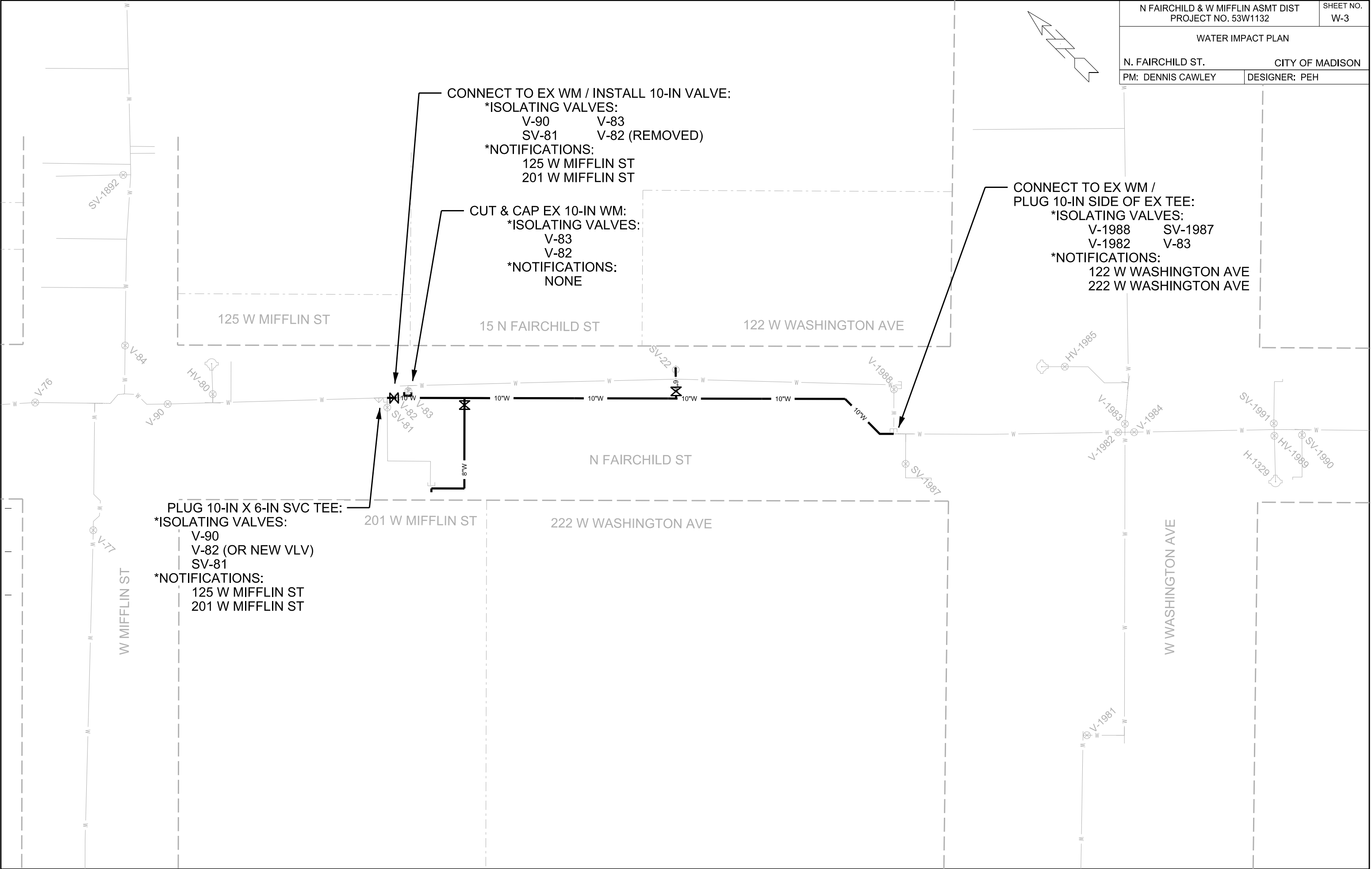
REMOVED/SALVAGED MATERIALS:

10-FT - 10-IN PIPE
1 - 6-IN VALVE AND BOX
1 - 10-IN VALVE AND BOX
1 - 10-IN 90° BEND

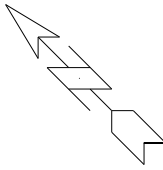
REUSED MATERIALS:

NONE





N FAIRCHILD & W MIFFLIN ASMT DIST PROJECT NO. 53W1132		SHEET NO. W-3
WATER IMPACT PLAN		
N. FAIRCHILD ST.		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: PEH	



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CITY OF MADISON

12/21/12 KF SL2223.dgn
1/12/13 REV. KF
1/4/13 REV. KF

CONNECT
EXISTING



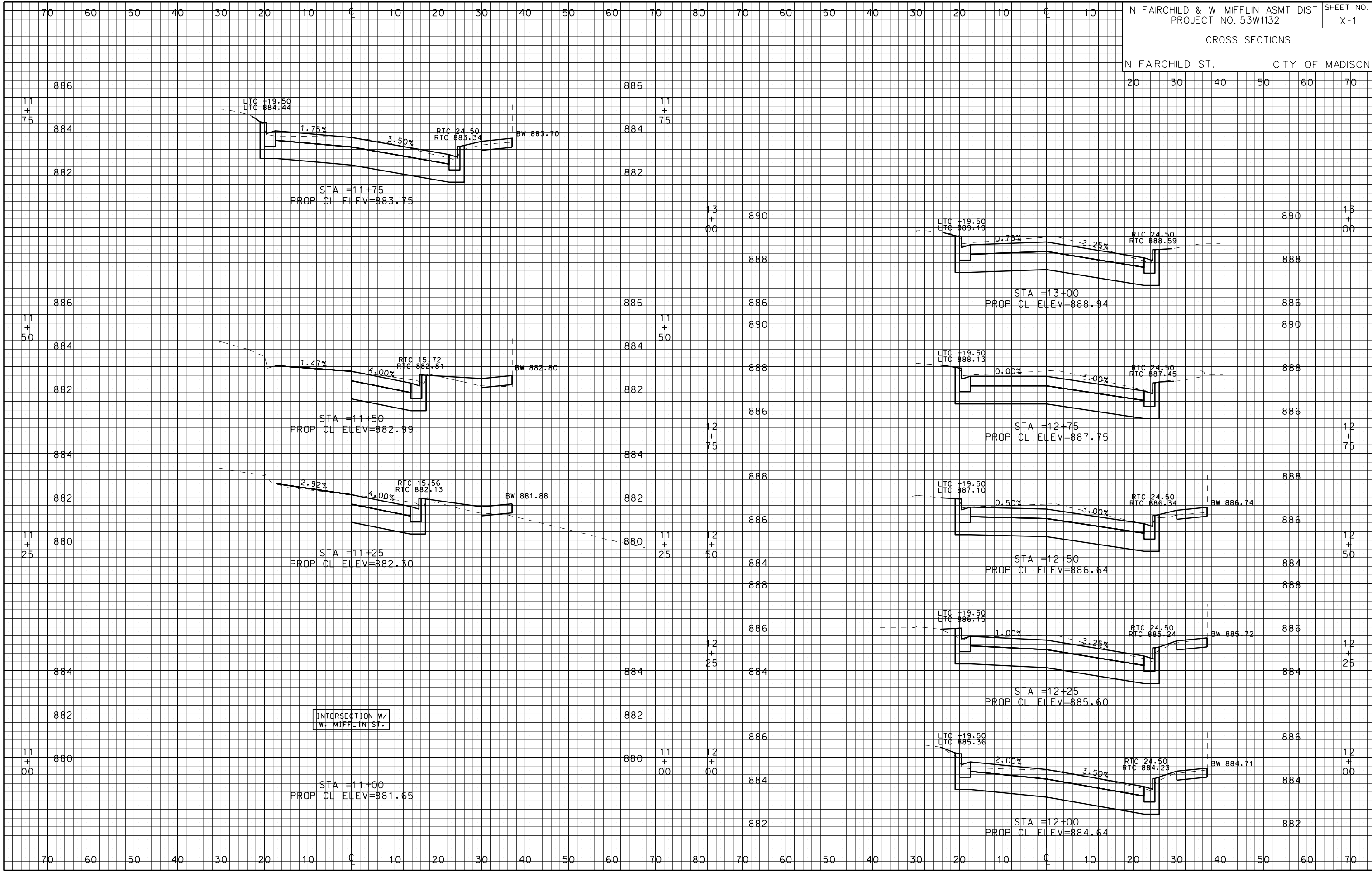
- GENERAL ELECTRIC NOTES:
1. ALL LOCATIONS ARE APPROXIMATE. THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK, IN THE FIELD AFTER CONTRACTOR SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY DAN DETTMANN (266-6536) CITY TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING CONDUIT OR BASE LOCATIONS MARKED.
 2. BASES INSTALLED IN TERRACE SHALL BE 4' FROM FACE OF CURB UNLESS OTHERWISE NOTED. SUBJECT TO NOTE 1 ABOVE.
 3. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2013 EDITION" AND ALL ADDENDUMS THERETO. ALL CONDUIT SHALL BE PVC, SCHEDULE 80 UNDER PAVEMENT OR SCHEDULE 40 OTHERWISE. PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.
 4. THE CONTRACTOR SHALL CALL MIKE CHRISTOPH (266-9031) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF POURING BASES OR BURYING CONDUIT TO ARRANGE FOR INSPECTION. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

PLOT NAME: _____

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