

SOUTH MONROE STREET CDBG-EAP #08-63 FLOOD PLAIN IMPROVEMENTS

CITY OF WATERLOO, JEFFERSON COUNTY, WISCONSIN

S MONROE ST - MAUNESHA RIVER TO MADISON ST



717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

Revision Date

Project Name

South Monroe
Street CDBG
Flood Plain
Improvements



City of Waterloo
Wisconsin

Drawn By: AJO
Checked By:
File: Title Sheet.DWG
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION

TITLE SHEET

0
Sheet Number

T1

INDEX OF DRAWINGS

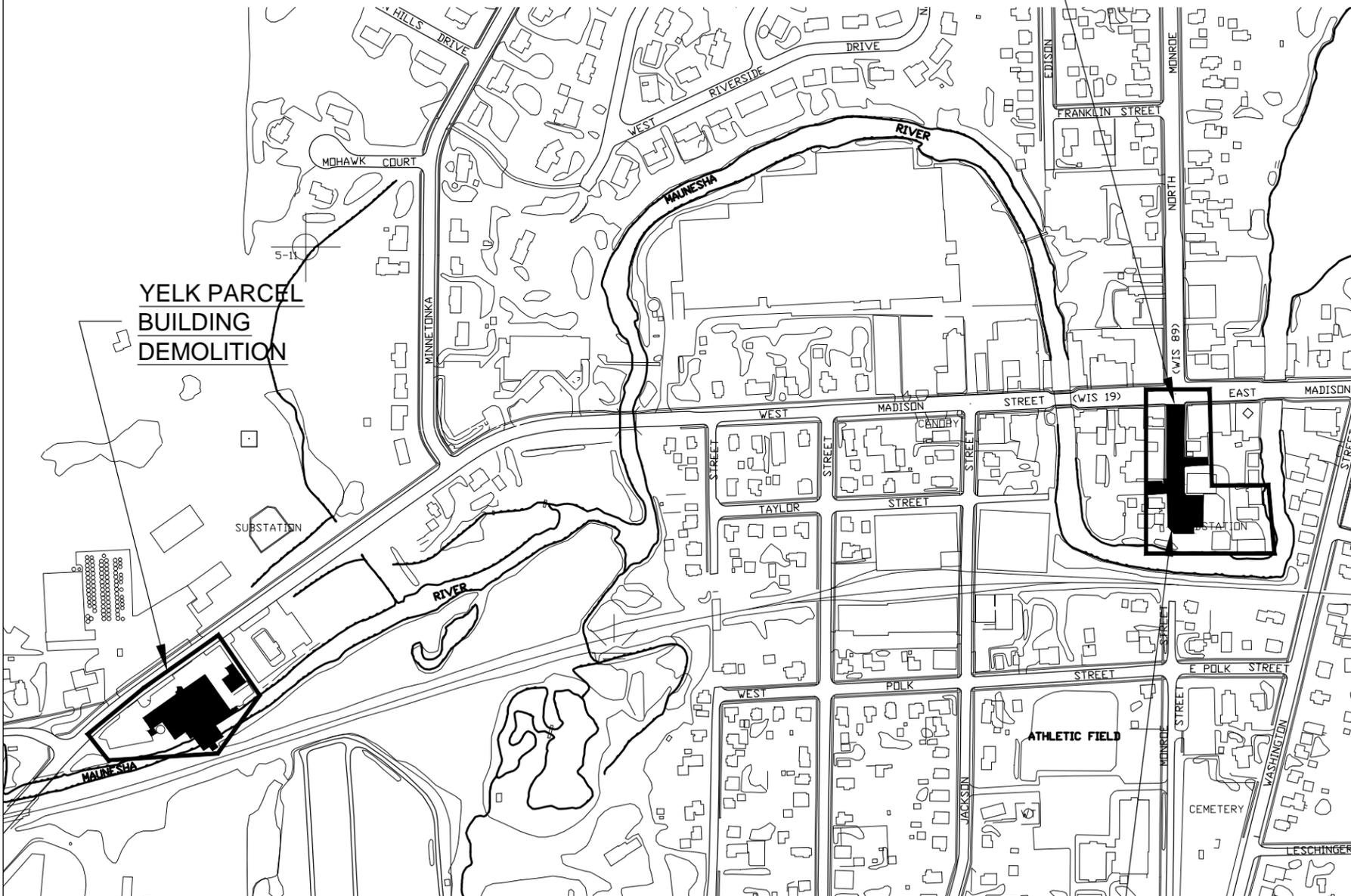
- T1.....TITLE SHEET
- DT1.....GENERAL NOTES/TYPICAL SECTIONS
- DT2 - DT11.....CONSTRUCTION DETAILS
- EC1.....EROSION CONTROL
- DM1.....DEMOLITION PLANS
- G1.....GRADING PLAN
- W1.....WATERMAIN PLAN & PROFILE
- P1 - P2.....PAVING & STORM PLAN & PROFILE
- F1.....MONROE STREET FOUNDATION PLAN
- M1.....PAVEMENT MARKING & SIGNAGE PLAN
- X1 - X4.....CROSS SECTIONS

NOTES:

1. Elevations are based on the City of Waterloo benchmark system.
2. The location of underground utilities shown hereon are from surveyed locations of aboveground features and markings made by others. Call Diggers Hotline at 800-242-8511 before digging.

LEGEND

- IRON STAKE FOUND
- △ 8" SPIKE CONTROL POINT SET
- APPROXIMATE LOT OR RIGHT-OF-WAY LINES
- X - X - X - FENCE
- SANITARY SEWER WITH MANHOLE
- WATER MAIN WITH MANHOLE OR WATER SERVICE
- WATER VALVE
- FIRE HYDRANT
- STORM SEWER
- ▣ STORM INLET IN CURB
- HAND RAIL
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND GAS LINE
- OVERHEAD UTILITY
- ELECTRIC BOX
- UTILITY POLE
- ⊗ YARD LIGHT
- ⊗ LIGHT POLE
- ⊗ SIGN
- MAILBOX
- SHRUB OR PLANT, APPROXIMATELY TO SCALE
- DECIDUOUS TREE, CANOPY NOT TO SCALE
- EVERGREEN TREE, CANOPY NOT TO SCALE
- A ASPHALT SURFACE
- B CONCRETE SURFACE
- C BRICK SURFACE
- CP CONCRETE PAVES SURFACE
- G GRAVEL SURFACE
- P PLANTINGS
- CW CONCRETE RETAINING WALL
- MW MASONRY RETAINING WALL
- BW BOULDER RETAINING WALL
- WW WOODEN RETAINING WALL



PROJECT LOCATION MAP



GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE CITY OF WATERLOO DATUM. BENCHMARKS ARE PROVIDED ON THE PLAN & PROFILE SHEETS.

COORDINATES ON THIS PLAN ARE REFERENCED TO AN ASSUMED COORDINATE SYSTEM.

EXCAVATION BELOW SUBGRADE (EBS) IS SHOWN ON THE CROSS SECTIONS AND FIGURED INTO THE EARTHWORK QUANTITIES. EBS IS PAID FOR AS EXCAVATION COMMON. EBS ENCOUNTERED DURING CONSTRUCTION THAT IS NOT SHOWN ON THE PLANS SHALL BE PAID FOR AS EXCAVATION COMMON.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EROSION CONTROL ITEMS ARE INCLUDED IN THE PLAN QUANTITIES. LOCATION FOR INSTALLATION OF EROSION CONTROL ITEMS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE IN PLACE PRIOR TO CONSTRUCTION. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL SUCH TIME THAT THE ENGINEER DEEMS THE DEVICES NO LONGER NECESSARY.

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS NOTED IN THE PLANS AND MARKED IN THE FIELD BY THE ENGINEER.

ASPHALTIC PAVEMENT, TYPE E-3, SHALL BE PLACED IN TWO LIFTS, A 2.25-INCH BINDER AND A 1.75-INCH SURFACE COURSE.

ALL AREAS OF CONCRETE AND ASPHALT DESIGNATED FOR REMOVAL SHALL BE DELINEATED WITH A SAWCUT.

DRIVEWAYS BEHIND THE PROPOSED CONCRETE APRON SHALL BE REPLACED IN KIND.

ALL DISTURBED AREAS TO BE TOPSOILED, SEEDED & MULCHED/MATTED.

DETECTABLE WARNING FIELDS REQUIRED AT ALL CURB RAMP.

EXCAVATED TRENCH MATERIAL SHALL BE DISPOSED OF OFF SITE. IF EXCAVATED TRENCH MATERIAL IS APPROVED BY THE ENGINEER AS SUITABLE TRENCH BACKFILL, A DEDUCTION SHALL BE MADE TO THE TOTAL CONTRACT PRICE BASED ON THE UNIT BID PRICE FOR GRANULAR TRENCH BACKFILL.

UTILITY CONTACTS

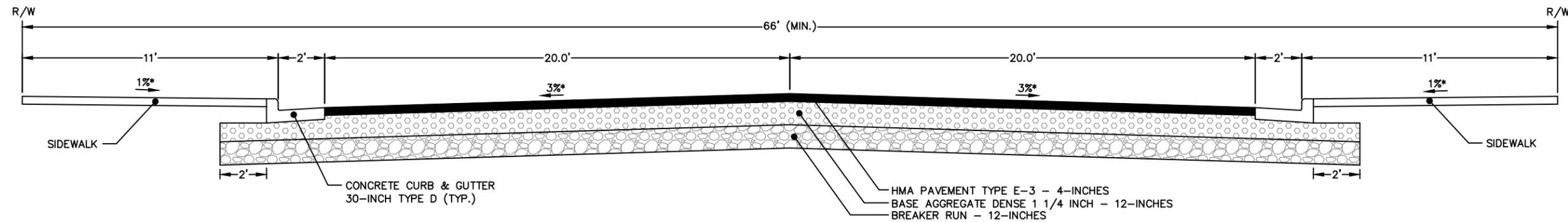
| | | | |
|--------------------------|--|---------------------------------|-----------------------------|
| CITY OF WATERLOO | 136 N. MONROE STREET WATERLOO, WI 53594 | GARY YRGES 920.478.3025 | SANITARY AND STORM SEWER |
| WATERLOO WATER AND LIGHT | 575 COMMERCIAL AVENUE WATERLOO, WI 53594 | EUGENE WEIHERT 920.478.2260 | WATER & ELECTRIC |
| VERIZON | 100 COMMUNICATIONS DRIVE P.O. BOX 49 SUN PRAIRIE, WI 53590 | WILLIAM MATHY 608.843.8353 | TELECOMMUNICATIONS |
| CHARTER COMMUNICATIONS | 2701 DANIELS STREET MADISON, WI 53718 | RON FRASE 920.263.0115 | CATV |
| WE ENERGIES | 1251 W. MAIN STREET SUN PRAIRIE, WI 53590 | GERALD THIEDE 608.604.2800 | OVERALL CONTACT |
| WE ENERGIES | 1830 SOUTH WEST AVENUE WAUKESHA, WI 53189 | REBECCA CONRAD (920)262-6854 | GAS |
| WE ENERGIES | S13W33800 STH 18 DELAFIELD, WI 53018 | TERRY CONNELLY 262.968.5771 | ELECTRIC |

DESIGN CONTACTS

MARCUS FINK, P.E.
SAA DESIGN GROUP, INC.
717 JOHN NOLEN DRIVE
MADISON, WI 53713
608.255.0800



Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com



TYPICAL SECTION
MONROE STREET

* SLOPES MAY VARY. SEE CROSS SECTIONS FOR DETAILS.

ALL DISTURBED AREAS SHALL BE COVERED WITH
A MINIMUM OF 4 INCHES OF TOPSOIL, SEED & MULCH.



717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

Revision Date

Project Name

South Monroe
Street CDBG
Flood Plain
Improvements



City of Waterloo
Wisconsin

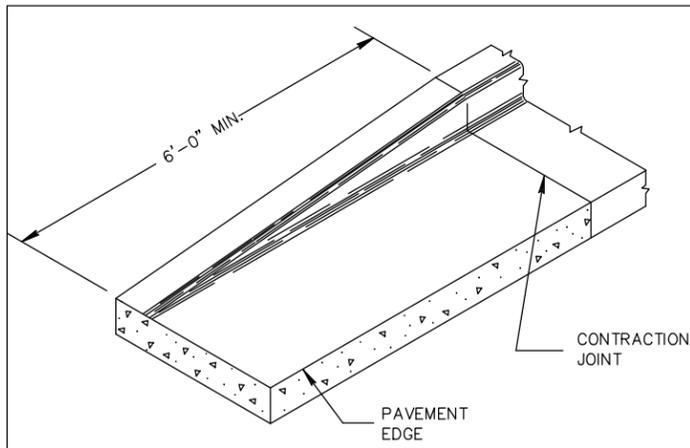
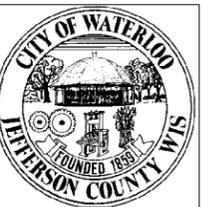
Drawn By: AJO
Checked By: JAL
File: DETAILS1
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION

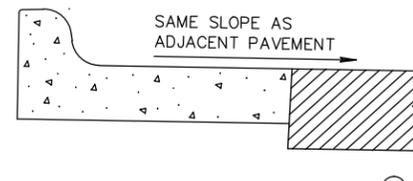
PAVING
DETAILS

0
Sheet Number

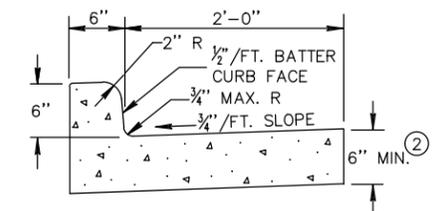
DT1



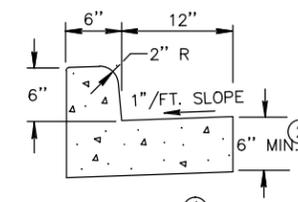
END SECTION CURB & GUTTER



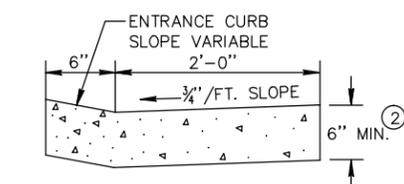
REVERSE SLOPE GUTTER
(TYPICAL FOR ALL CURB & GUTTER TYPES)



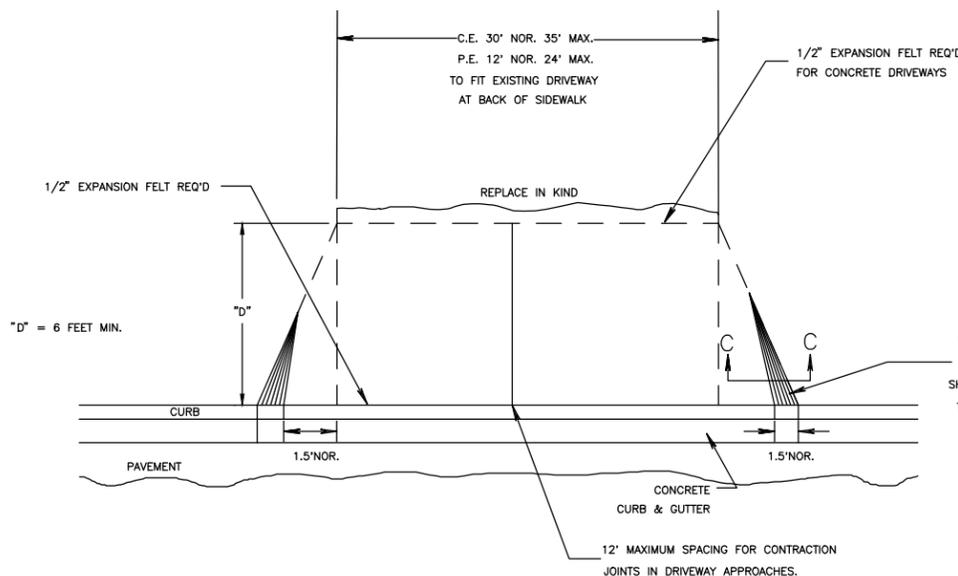
TYPES A & D



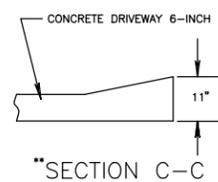
TYPES A & D
CONCRETE CURB & GUTTER 18"



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



PLAN VIEW



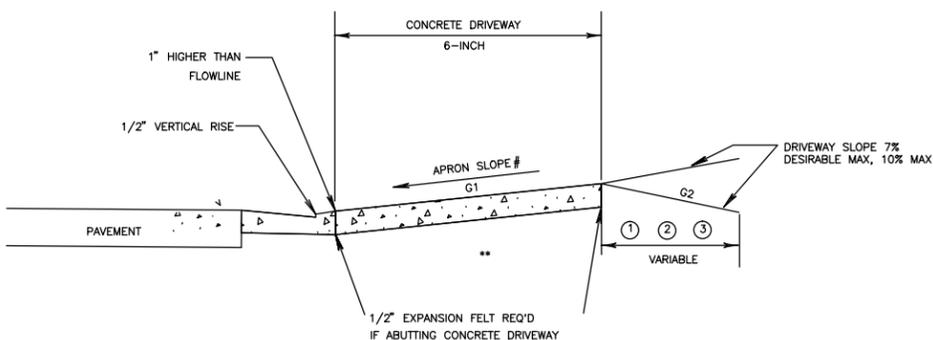
SECTION C-C

CONCRETE IN THE 1.5' TAPER AREA SHALL BE TAPERED TO A DEPTH OF 11-INCHES AND THE EXPANSION FELT SHALL MATCH THIS DEPTH. THIS WORK AND MATERIAL WILL BE INCIDENTAL TO THE BID ITEM.

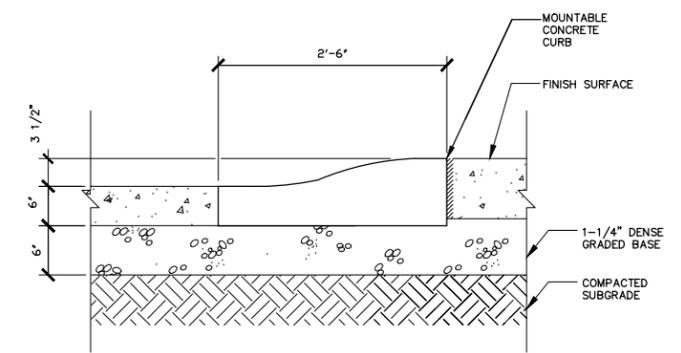
- ① - 6" CONCRETE DRIVEWAY OR H.E.S. CONCRETE DRIVEWAY
- ② - 6" BASE AGG. DENSE 1 1/4-INCH
- ③ - 4" BASE AGG. DENSE 1 1/4-INCH BASE WITH 2" ASPHALTIC SURFACE
- ** - 6" BASE AGG. DENSE 1 1/4-INCH REQ'D UNDER CONCRETE DRWY

| TERRACE | # APRON SLOPE (G1) | |
|---------|--------------------|-------------|
| | MIN % | DESIRABLE % |
| 3 FT | 7.0 | 8.5 |
| 4 FT | 5.0 | 7.0 |
| 5 FT | 4.0 | 7.0 |
| 6 FT | 4.0 | 7.0 |
| 7 FT | 3.5 | 7.0 |
| 8 FT | 3.0 | 7.0 |

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%



TYPICAL DRIVEWAY SECTION



30" MOUNTABLE CURB

NTS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT. PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

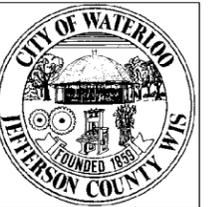
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ GUTTER THICKNESS AT THE FLANGE LINE TO BE EQUIVALENT TO THE PAVEMENT THICKNESS OR A MINIMUM OF 6" WHICHEVER IS GREATER. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED THE REQUIRED GUTTER THICKNESS IS MAINTAINED.
- ④ FOR THE PURPOSES OF SIGN PLACEMENT THE EDGE OF CURB IS TO BE 6" FROM THE BACK OF CURB.
- ⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

| Revision | Date |
|----------|------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Project Name
**South Monroe
Street CDBG
Flood Plain
Improvements**



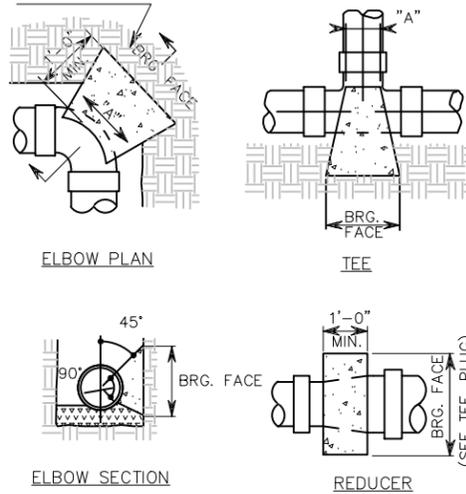
City of Waterloo
Wisconsin

Drawn By: MAF
Checked By: JAL
File: DETAILS2
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION
WATER MAIN
CONSTRUCTION
DETAILS

Sheet Number
DT3

CONCRETE: 1 PART CEMENT, 1 1/2 PARTS SAND, 5 PARTS STONE OR WASHED GRAVEL. CAST IN PLACE. LEAVE JOINT ACCESSIBLE FOR INSPECTION

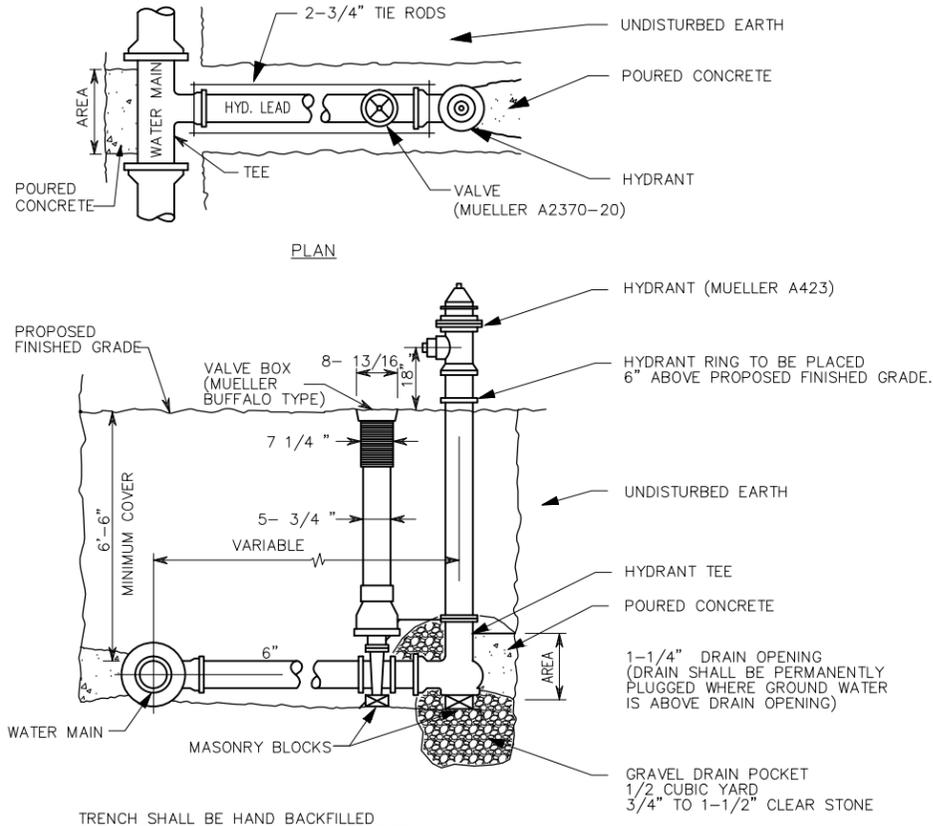


| PIPE DIA. FITTING | FITTING | "A" | BRG. FACE SQ. FT. |
|-------------------|---------------------|-------|-------------------|
| 3", 4" | 90° ELBOW | 1'-0" | 3 |
| 3", 4" | 45° ELBOW | 1'-0" | 2 |
| 3", 4" | TEE, HYD. CAP, PLUG | 1'-0" | 3 |
| 6" | 90° ELBOW | 1'-0" | 7 |
| 6" | 45° ELBOW | 1'-0" | 4 |
| 6" | TEE, HYD. CAP, PLUG | 1'-0" | 5 |

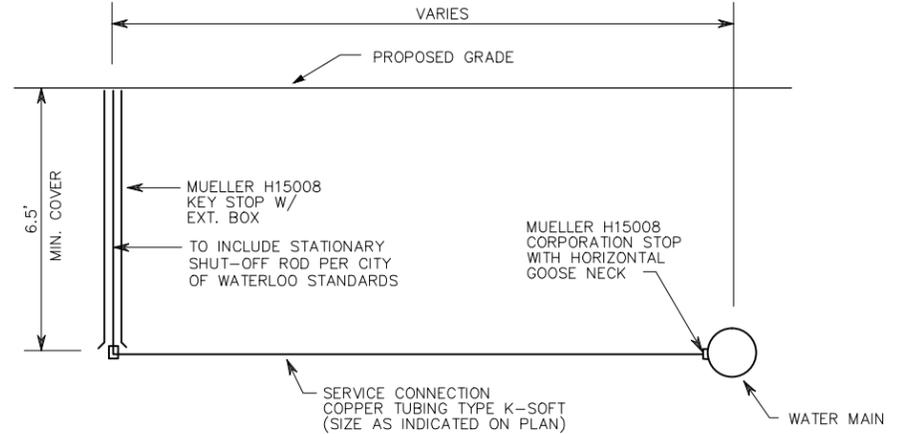
| PIPE DIA. | FITTING | "A" | BRG. FACE SQ. FT. |
|-----------|---------------------|-------|-------------------|
| 8" | 90° ELBOW | 1'-6" | 11 |
| 8" | 45° ELBOW | 1'-6" | 6 |
| 8" | TEE, HYD. CAP, PLUG | 1'-6" | 8 |
| 10", 12" | 90° ELBOW | 1'-6" | 24 |
| 10", 12" | 45° ELBOW | 1'-6" | 13 |
| 10", 12" | TEE, HYD. CAP, PLUG | 1'-6" | 17 |

NOTE:
BASED ON 250 PSI MAX. WORKING PRESSURE AND ON UNDISTURBED SOIL BEARING OF 2000 LBS/FT. THRUST BLOCK SIZE SHALL VARY WITH SOIL CONDITIONS.

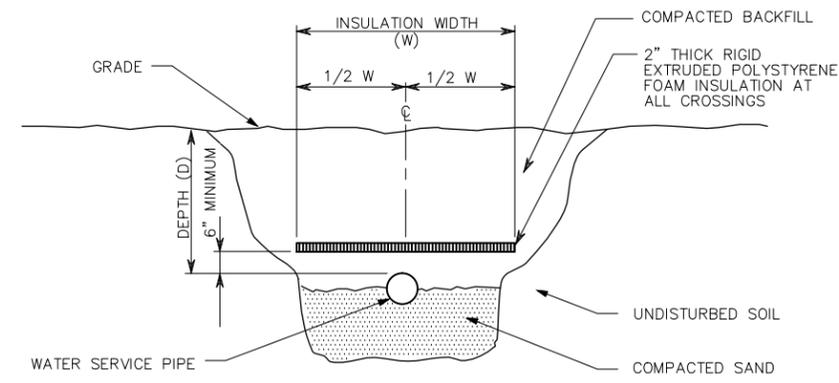
CONCRETE REACTION ANCHORAGE



HYDRANT SETTING DETAIL



- NOTES:
1. MAINTAIN 6.5' MIN. COVER OVER ENTIRE INSTALLATION.
 2. ALL FITTINGS SHALL CONFORM TO A.W.W.A. STDS.
 3. ALL COPPER COUPLINGS TO BE FLARED OR COMPRESSION JOINT
 4. ALL TAPS TO BE MADE "LIVE" AND BE AT LEAST 18" APART
 5. ALL COPPER TUBING BENDS TO HAVE SMOOTH RADII
 6. SERVICE LATERALS SHALL BE TESTED AT SAME TIME AS MAINLINE TESTING IS DONE
 7. WHERE TOP OF WATER SERVICE PIPE IS LOCATED LESS THAN 6'-0" BELOW THE GROUND SURFACE, PROVIDE INSULATION AS SHOWN ON DETAIL AND BY SCHEDULE BELOW.



File: P:\1900\1955.16-WtrioaMonroe\1-CAD\1-Details2.dwg Layout: D4 MANHOLES User: mfk Plotted: Jan 10, 2012 - 12:25pm

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MANHOLES SHALL HAVE NEENAH R-1550 TYPE B NON-ROCKING COVERS. STORM SEWER MANHOLE COVERS SHALL HAVE THE WORDS "STORM SEWER" CAST INTO THE LID IN 3" HIGH RAISED LETTERS. SANITARY SEWER MANHOLES SHALL HAVE RUBBER BOOTS INSTALLED FOR ALL PIPE CONNECTIONS.

ALL MANHOLE CASTINGS SHALL BE PLACED ON EXTENSION RINGS THAT SHALL HAVE AN OVERALL THICKNESS OF 6" MINIMUM AND 18" MAXIMUM. IF EXTENSIONS ARE TO BE GREATER THAN 18", A NEW MANHOLE SECTION SHALL BE PLACED UNDER THE CONE SECTION.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS CONFORMING TO AASHTO M 199 SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH.

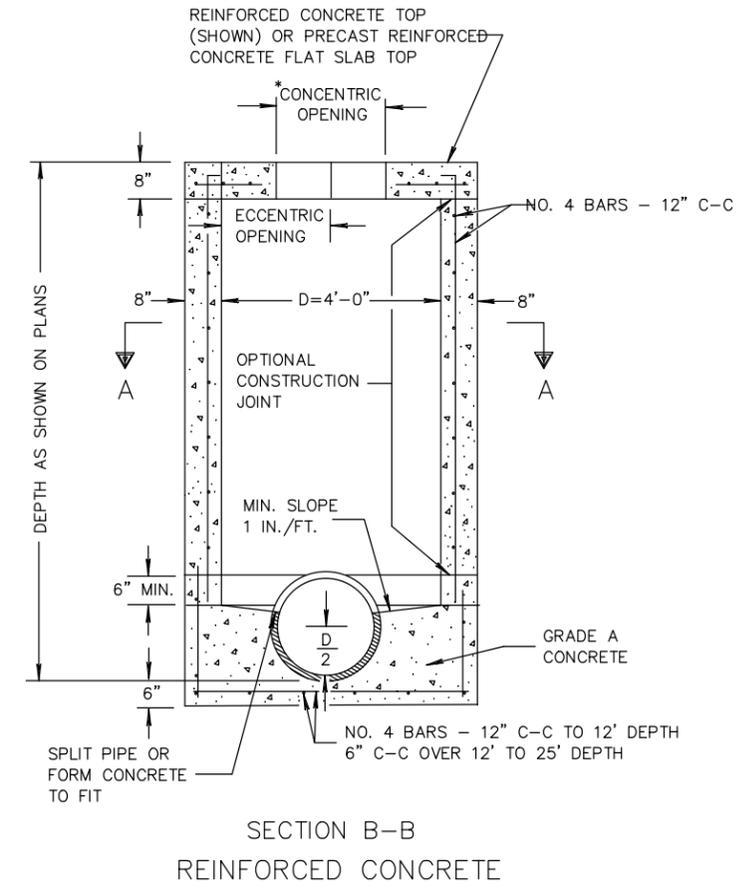
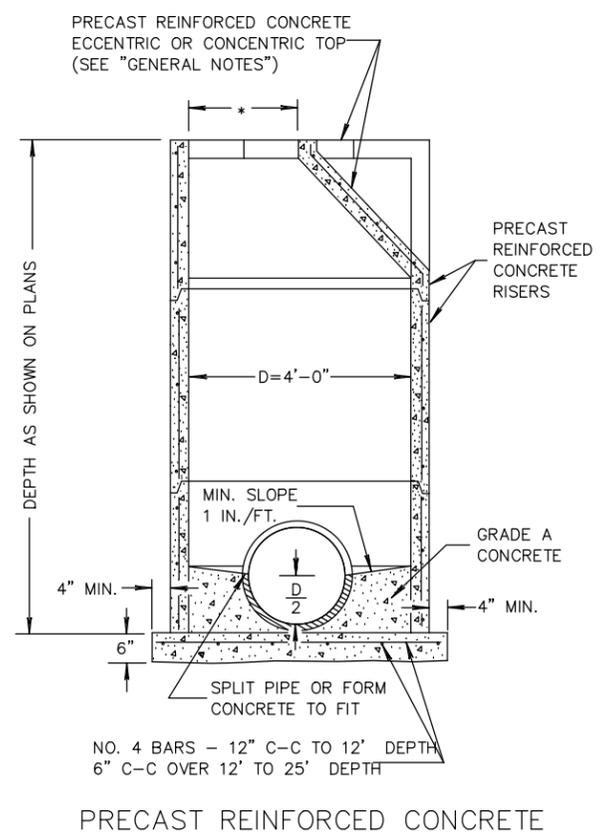
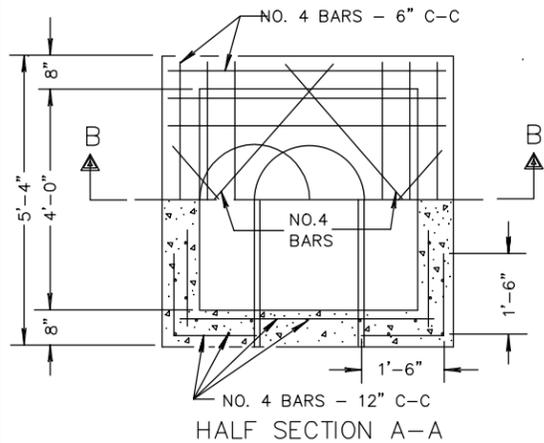
SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

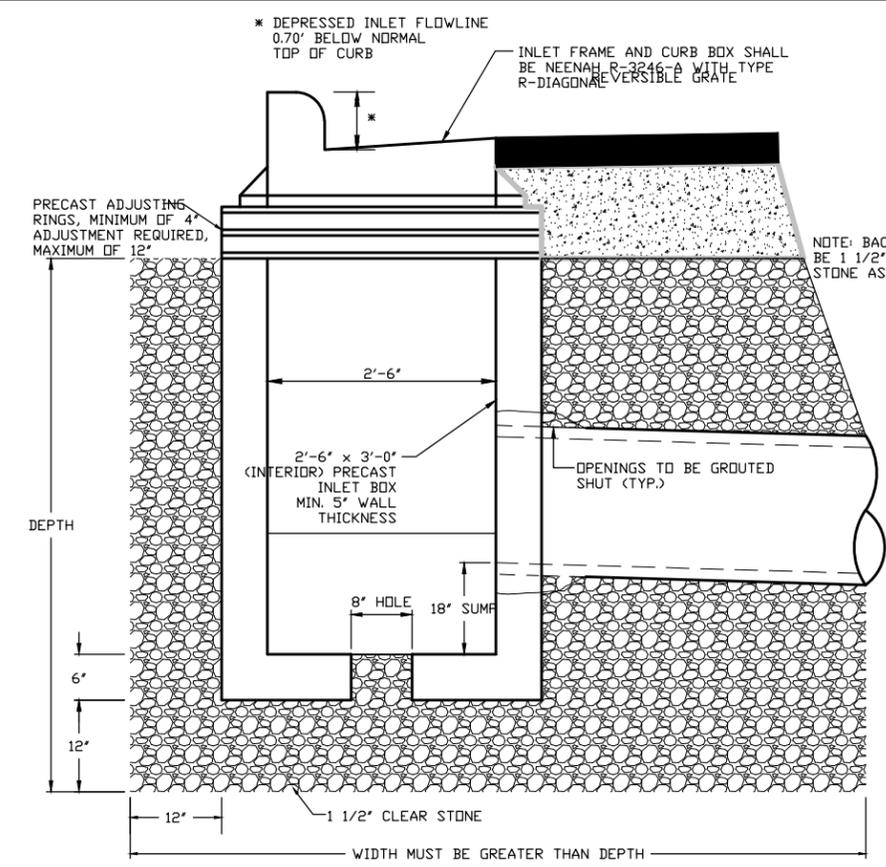
PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS AND MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

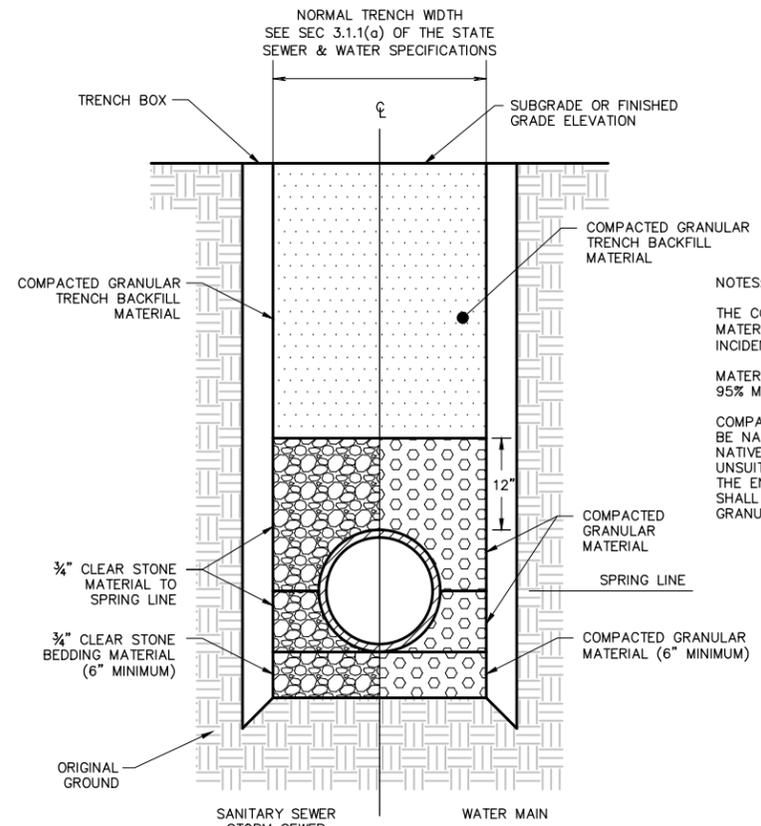
*USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.



MANHOLES TYPE 1
MANHOLE DETAIL



BOX INLET DETAIL



PIPE BEDDING AND TRENCH DETAILS

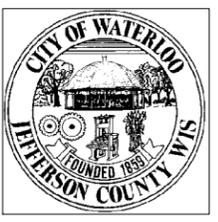
NOTES:
THE COST OF ALL BEDDING AND COVER MATERIALS TO 12" ABOVE THE PIPE TO BE INCIDENTAL TO PIPE BID PRICE.
MATERIALS TO BE COMPACTED TO MINIMUM OF 95% MAX. DENSITY.
COMPACTED GRANULAR TRENCH BACKFILL TO BE NATIVE EXCAVATED TRENCH MATERIAL. IF NATIVE EXCAVATED TRENCH MATERIAL IS UNSUITABLE FOR BACKFILL, AS DETERMINED BY THE ENGINEER, GRANULAR TRENCH BACKFILL SHALL BE SUPPLIED PER THE BID ITEM GRANULAR TRENCH BACKFILL.

SAA
717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

| Revision | Date |
|----------|------|
| | |
| | |
| | |
| | |

Project Name
**South Monroe
Street CDBG
Flood Plain
Improvements**



City of Waterloo
Wisconsin

Drawn By: MAF
Checked By: JAL
File: DETAILS2
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION
**UTILITY
STRUCTURE
DETAILS**

Sheet Number

DT4

NTS



717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

Revision Date

Project Name

South Monroe
Street CDBG
Flood Plain
Improvements



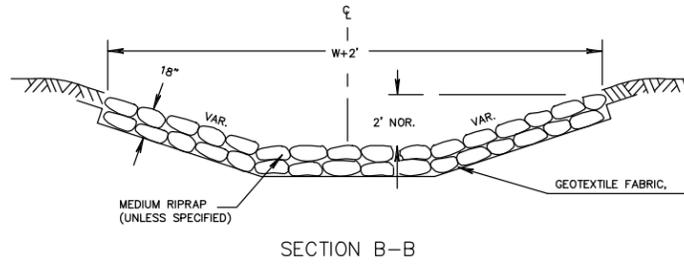
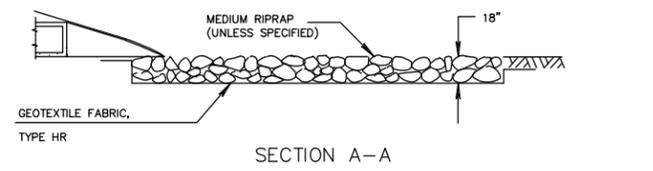
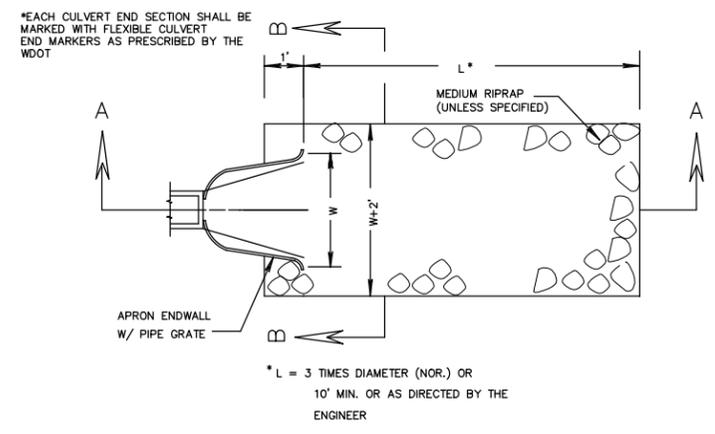
City of Waterloo
Wisconsin

Drawn By: MAF
Checked By: JAL
File: DETAILS2
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

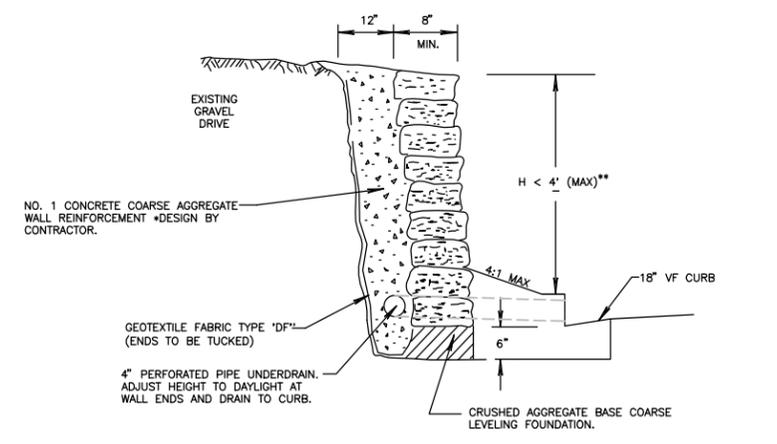
OPTION
CONSTRUCTION
DETAILS

Sheet Number

DT5

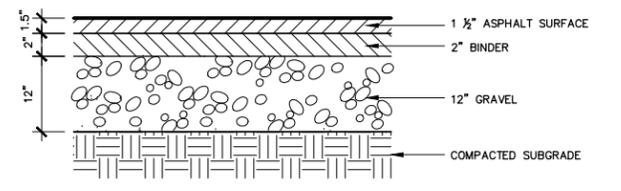


RIPRAP AT APRON ENDWALLS NTS

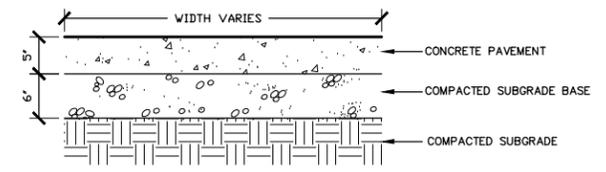


*CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE CITY FOR APPROVAL PRIOR TO CONSTRUCTING THE WALL.
**WHERE THE WALL HEIGHT EXCEEDS 3 FEET, A STEEL HANDRAIL SHALL BE CONSTRUCTED.

MODULAR BLOCK RETAINING WALL NTS

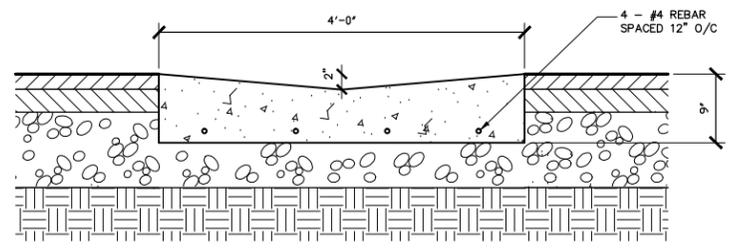


PARKING LOT ASPHALT SECTION NTS

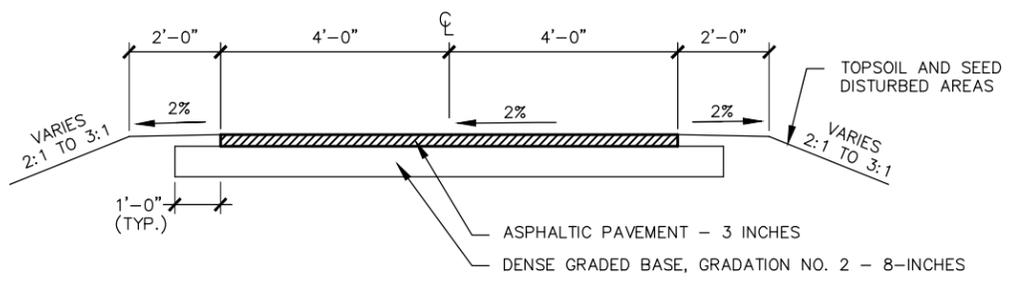


- NOTES:
1. MEDIUM BROOM FINISH, PERPENDICULAR TO DIRECTION OF TRAVEL, UNLESS OTHERWISE STATED.
 2. PROVIDE EXPANSION JOINTS 30' ALL WAYS, MINIMUM
 3. CONCRETE THICKNESS AT DRIVEWAYS SHALL BE 6" MINIMUM.
 4. MINIMUM SIDEWALK WIDTH SHALL BE 5'.

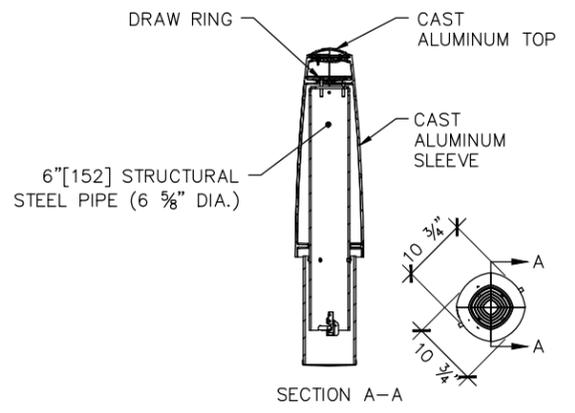
CONCRETE SIDEWALK SCALE 1" = 1'-0"



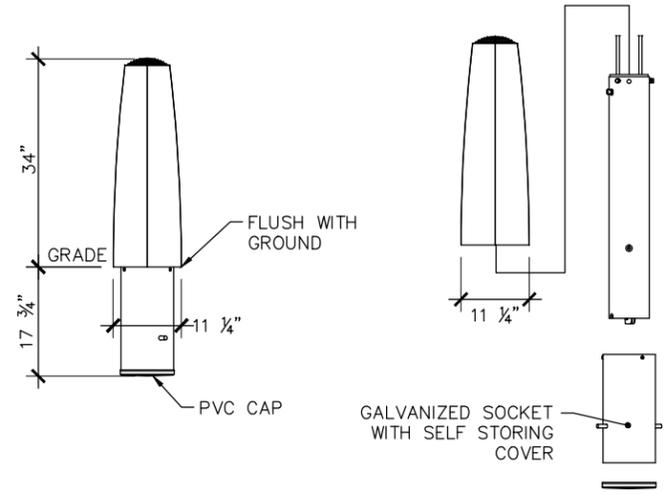
CONCRETE CUNETTE NTS



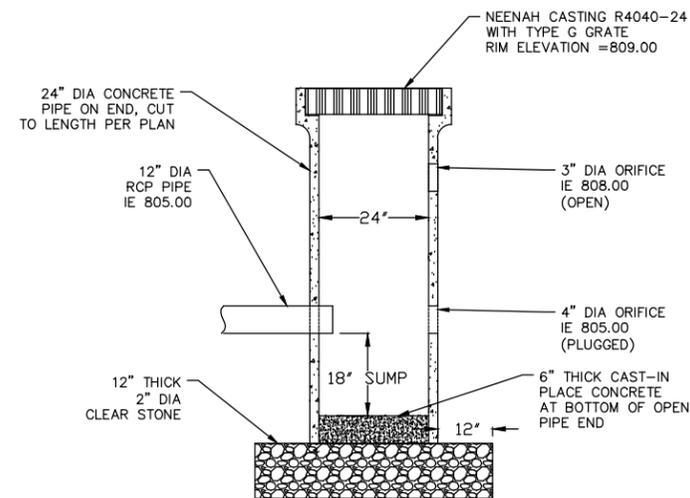
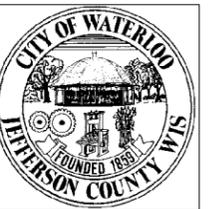
BIKE PATH SECTION SCALE: 1" = 4'-0"



REMOVABLE BOLLARD NTS

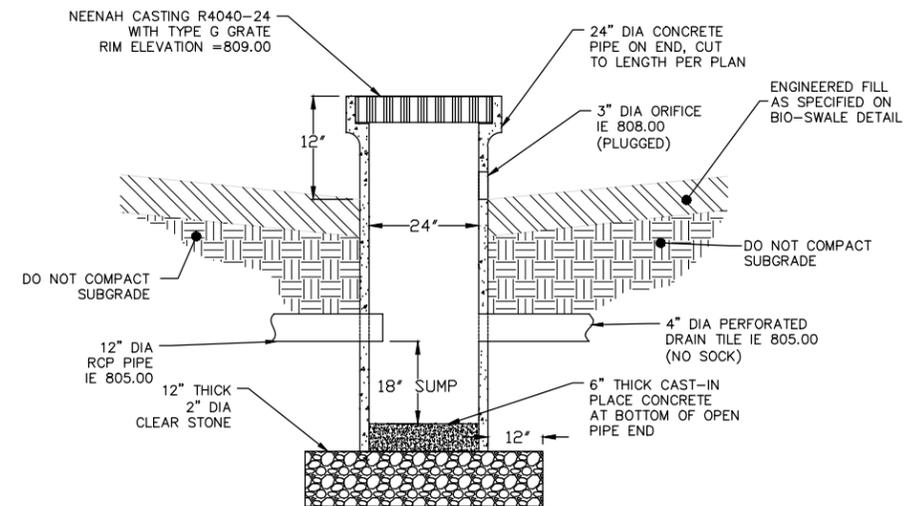


File: P:\1900\1955.16-WtrioaMonroe\ST\CAD\P-Details2.dwg Layout: D5 STM SWR User: mfrnk Plotted: Jan 10, 2012 - 12:25pm



SEDIMENT BASIN OUTLET STRUCTURE

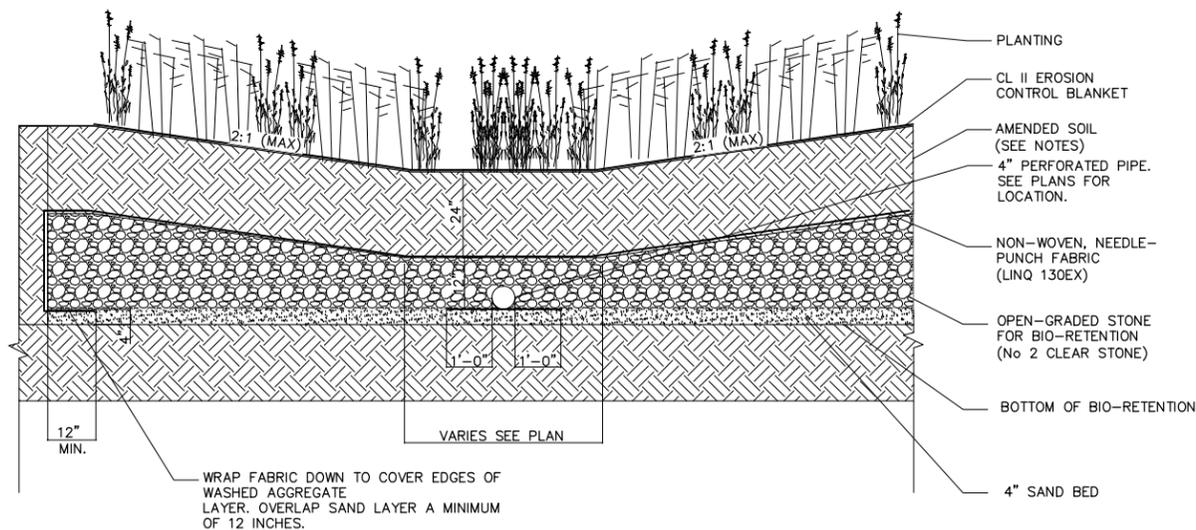
NTS



*BIO-RETENTION OUTLET STRUCTURE

NTS

*THE SEDIMENT BASIN OUTLET STRUCTURE IS TO BE MODIFIED & USED AS THE BIO-RETENTION BASIN OUTLET STRUCTURE UPON INSTALLATION OF THE BIO-RETENTION AREA.



BIO-RETENTION AREA

NTS

BIO-RETENTION GENERAL NOTES:

1. ALL CONSTRUCTION PRACTICES SHALL MEET THE SPECIFICATIONS OF THE WDNR TECHNICAL STANDARD 1004 - BIORETENTION FOR INFILTRATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THIS STANDARD AND CONSTRUCT THE BIORETENTION DEVICE IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED THEREIN.
2. CONTRACTOR SHALL INSTALL 24" OF ENGINEERED SOIL CONSISTING OF: 50% ASTM C33 SAND AND 50% CERTIFIED S100 COMPOST (SEE GENERAL NOTE 3). FILL BIO-RETENTION AREA 2-3" ABOVE SURROUNDING FINISH GRADE TO ACCOMMODATE SETTLING OF BIO-RETENTION MATERIAL.
3. CERTIFIED COMPOST SHALL CONSIST OF: >40% ORGANIC MATTER, <60% ASH CONTENT, pH OF 6-8, AND MOISTURE CONTENT OF 35-50% BY WEIGHT.
4. SAND/NATIVE SOIL INFILTRATION LAYER SHALL BE FORMED BY A LAYER OF SAND 3 INCHES DEEP, WHICH IS VERTICALLY MIXED WITH THE NATIVE SOIL TO A DEPTH OF 2-4 INCHES.
5. FILTER FABRIC SHALL BE PLACED ABOVE THE PERFORATED PIPE, BETWEEN THE PEA GRAVEL AND THE ENGINEERED SOIL, A WIDTH OF 4 FEET CENTERED OVER THE FLOW LINE OF THE PIPE.
6. ANNUAL RYE GRASS SHALL BE SEED AT 40 LB/ACRE WITH THE SEED MIX IN THE AREAS SURROUNDING THE BASIN, ON SIDE SLOPES, AND OVER ANY LAND THAT DISCHARGES INTO THE BASIN FOR EROSION CONTROL WHEN BASIN IS BROUGHT ON-LINE. ROOTSTOP AND PLUGS ARE REQUIRED TO ESTABLISH VEGETATION AT THE INVERT OF THE BASIN.
7. RUNOFF MUST INFILTRATE WITHIN 48-HOURS. BASINS UNABLE TO MAINTAIN THESE RATES MUST BE DEEP TILLED, REGRADED, AND IF NECESSARY REPLANTED TO RESTORE ORIGINAL INFILTRATION RATES.
8. ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH APPLICABLE LOCAL, REGIONAL, AND STATE STORMWATER STANDARDS FOR THE PROJECT SITE AS APPROVED BY THE REGULATORY ENGINEER.
9. OWNER OR CONTRACTOR MUST CONSULT LANDSCAPE ARCHITECT OR ECOLOGICAL PLANTING AGENCY FOR APPROPRIATE PLANTS AND PLANTING CONFIGURATIONS.
10. BIO-RETENTION AREAS SHALL BE HAND OR BACK HOE LAID. EQUIPMENT SHALL NOT BE DRIVEN ON SOIL MIX DURING OR AFTER INSTALLATION.

INFILTRATION DEVICES ARE DESIGNED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR), COUNTY, MUNICIPALITY, AND ENGINEERING STANDARD OF CARE. ALL DESIGNATED INFILTRATION AREAS (e.g. RAIN GARDENS, INFILTRATION BASINS, BIORETENTION DEVICES) SHALL BE FENCED PRIOR TO CONSTRUCTION AND REMAIN UNDISTURBED AND PROTECTED DURING THE CONSTRUCTION OF PROPOSED SITE IMPROVEMENTS. PROPOSED BIORETENTION DEVICES SHALL NOT BE CONSTRUCTED UNTIL THE DEVICE'S CONTRIBUTING WATERSHED AREA MEETS ESTABLISHED VEGETATION REQUIREMENTS SET FORTH WITHIN THE RESPECTIVE WDNR TECHNICAL STANDARDS. IF THE LOCATION OF THE INFILTRATION AREA CONFLICTS WITH CONSTRUCTION STAGING AND/OR CONSTRUCTION TRAFFIC AND IS DISTURBED, COMPACTION MITIGATION WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS REQUIRED TO PROVIDE QUALIFIED STAFF FOR INSPECTION AND OBSERVATION OF THE CONSTRUCTION ACTIVITIES RELATING TO ALL JOB SITE REGULATORY COMPLIANCE INCLUDING THE PROTECTION AND CONSTRUCTION OF ALL STORMWATER MANAGEMENT FEATURES. ANY OBSERVATION OF PLAN OR SITE DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.



717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

| Revision | Date |
|----------|------|
| | |
| | |
| | |
| | |
| | |

Project Name

South Monroe
Street CDBG
Flood Plain
Improvements



City of Waterloo
Wisconsin

Drawn By: MAF
Checked By: JAL
File: DETAILS2
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION

CONCRETE
CONSTRUCTION
DETAILS

Sheet Number

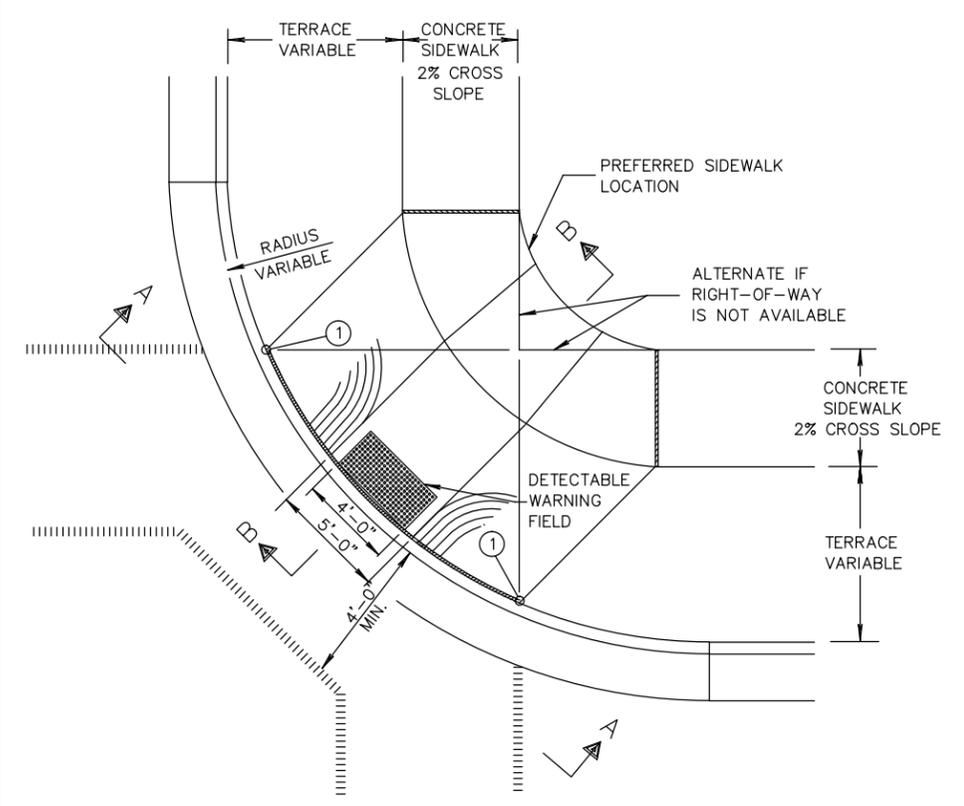
DT7

GENERAL NOTES

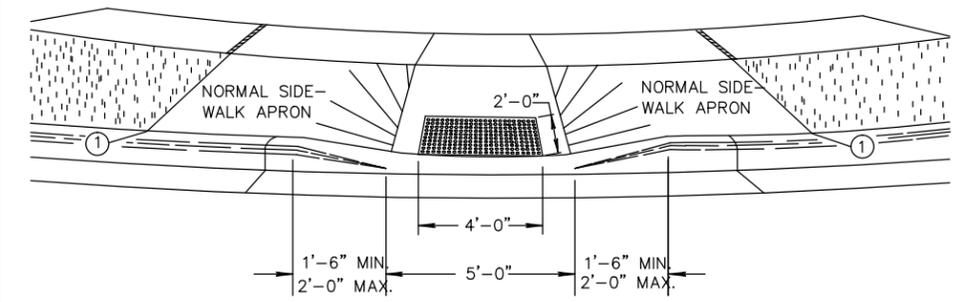
- ① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
- ③ PROVIDE LANDING AT TOP OF RAMP WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION.

LEGEND

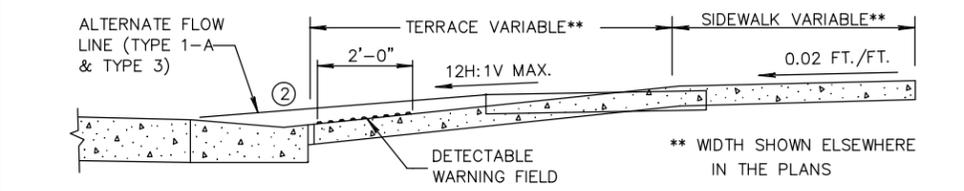
- 3/4" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



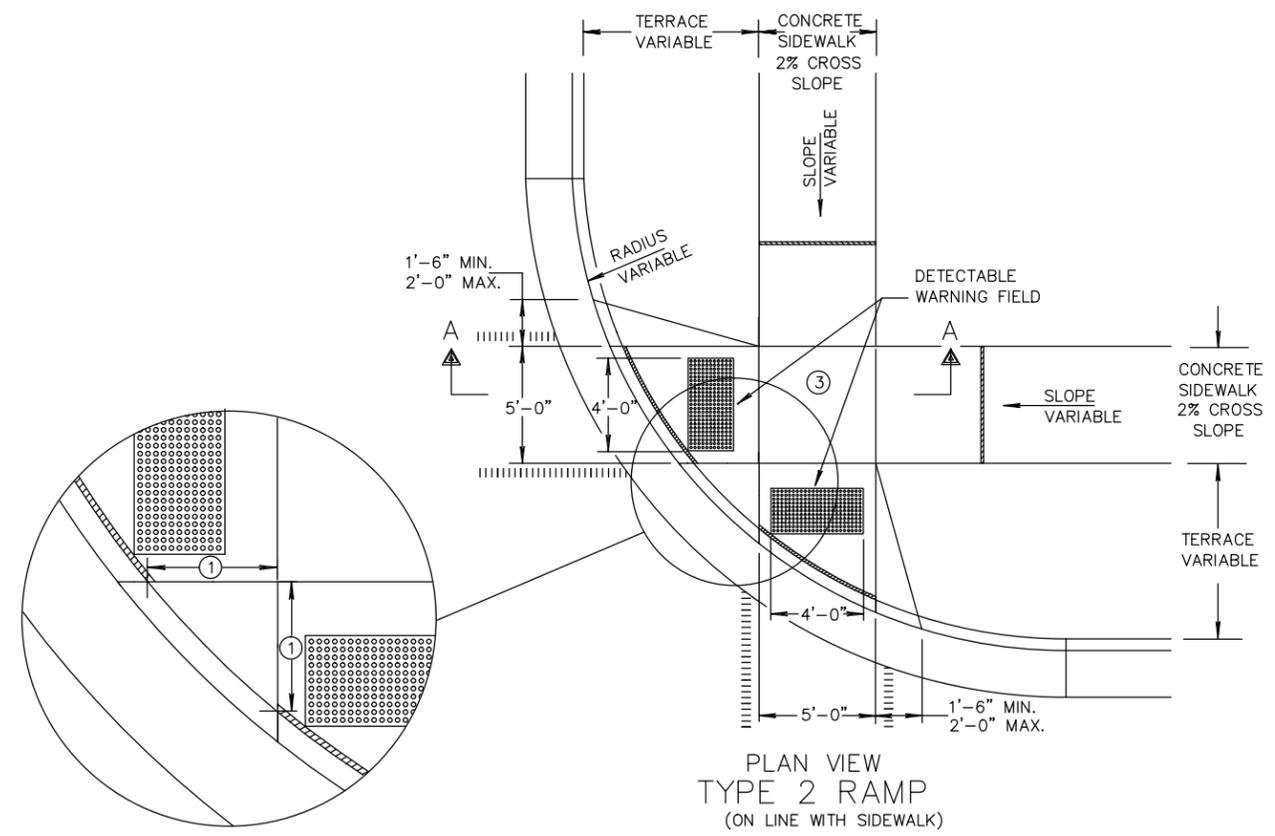
PLAN VIEW
TYPE 1 RAMP
(CENTER OF CORNER RADIUS)



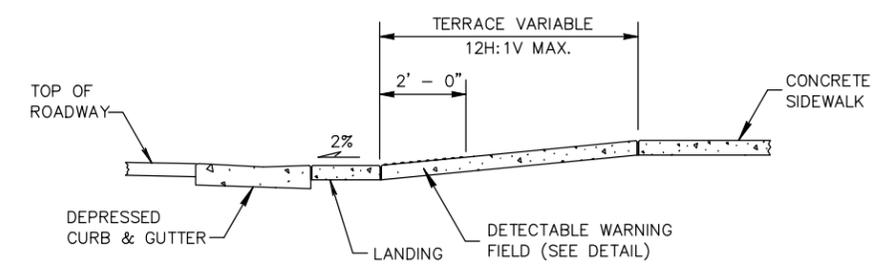
VIEW A-A



SECTION B-B

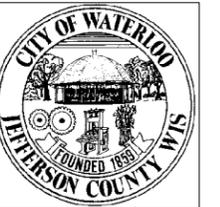


PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)



SECTION A-A

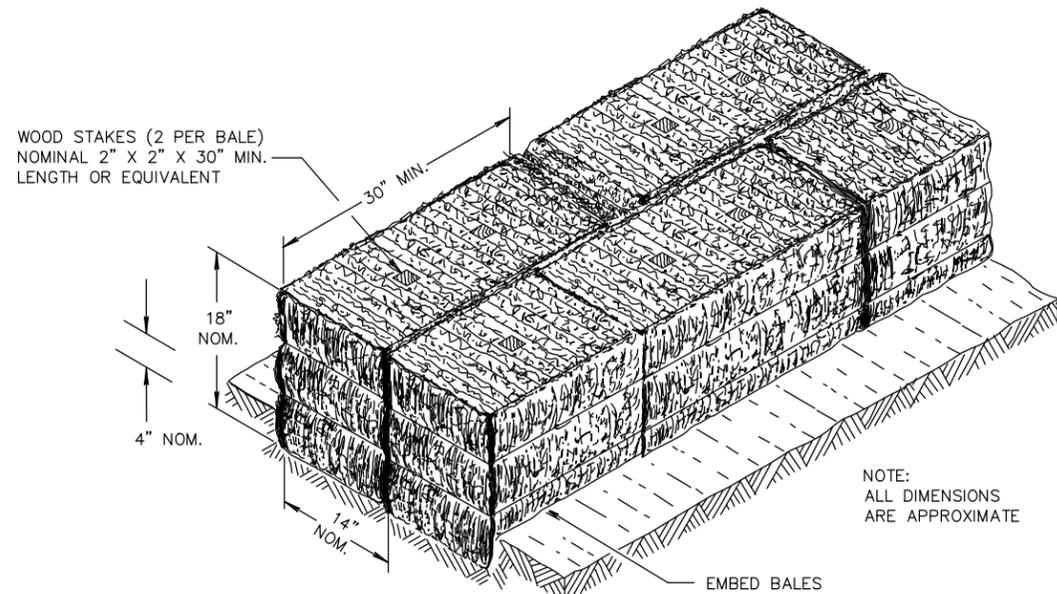
File: P:\1900\1955.16-WtrioaMonroeSt\CAD\P-Details2.dwg Layout: DT CURB&RAMP2 User: mfrnk Plotted: Jan 10, 2012 - 12:25pm



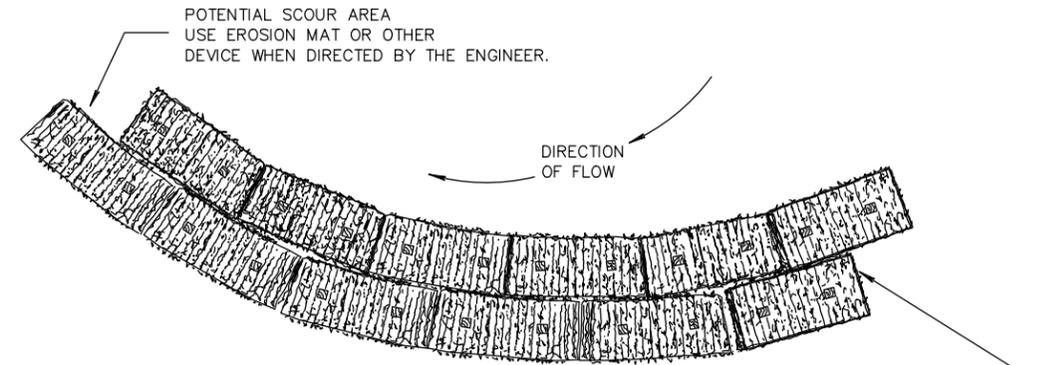
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



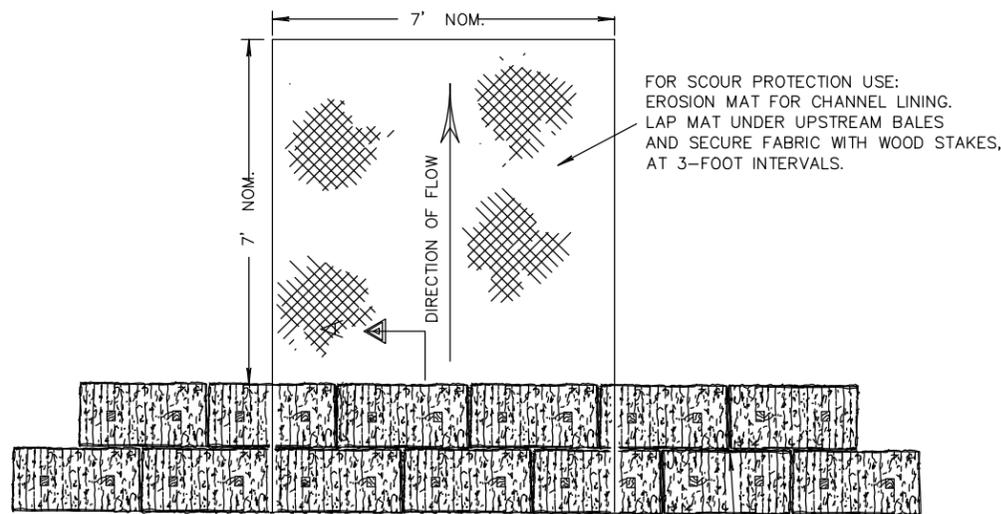
SECTION A-A



PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW

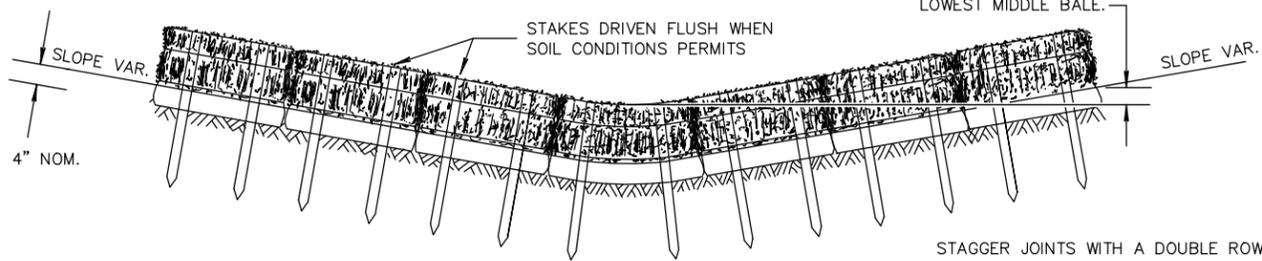
END TREATMENT ON SLOPES
TO BE SIMILAR TO CHANNEL
FLOW DETAIL.



PLAN VIEW

STAGGER JOINTS BETWEEN ADJACENT
ROWS OF BALES.

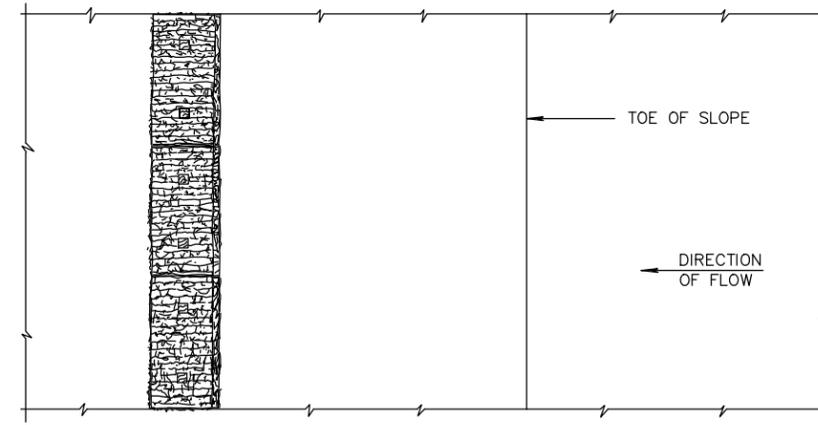
BOTTOM ELEVATION OF END BALE SHALL
BE EQUAL TO OR GREATER THAN TOP OF
LOWEST MIDDLE BALE.



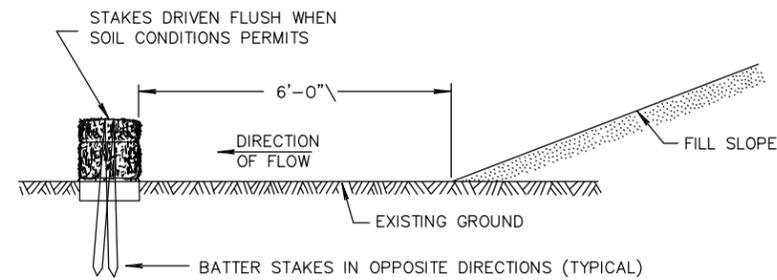
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES

①



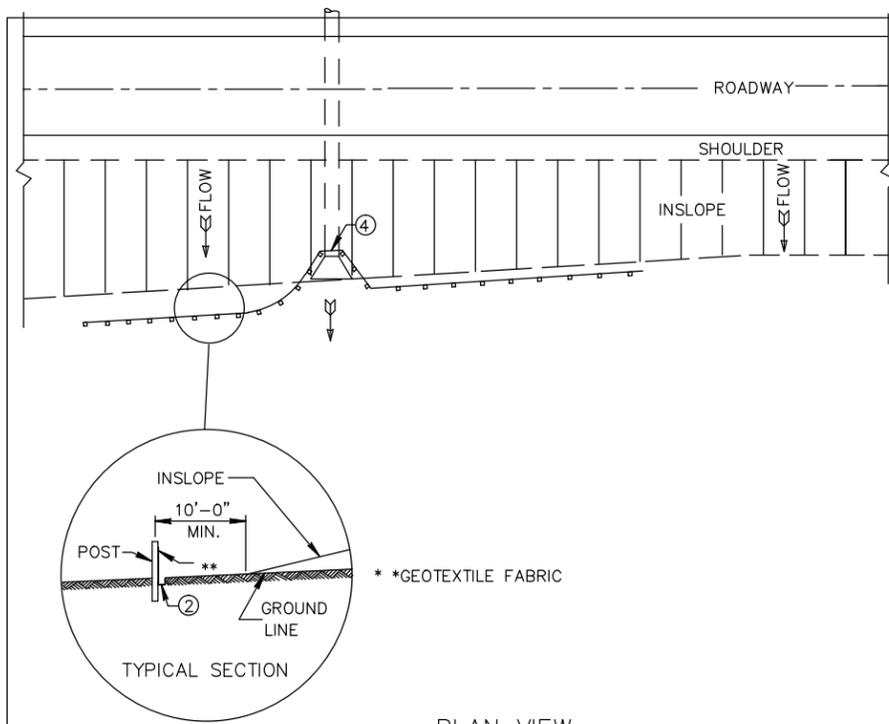
PLAN VIEW



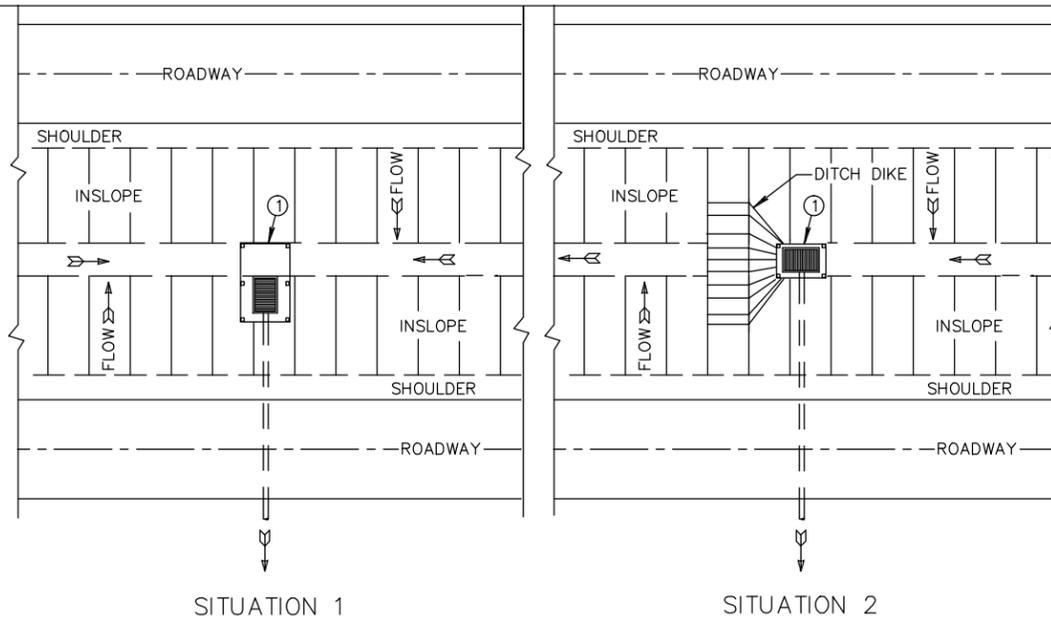
FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW



PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

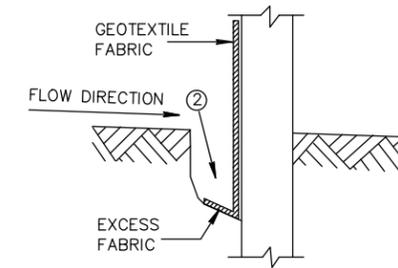


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

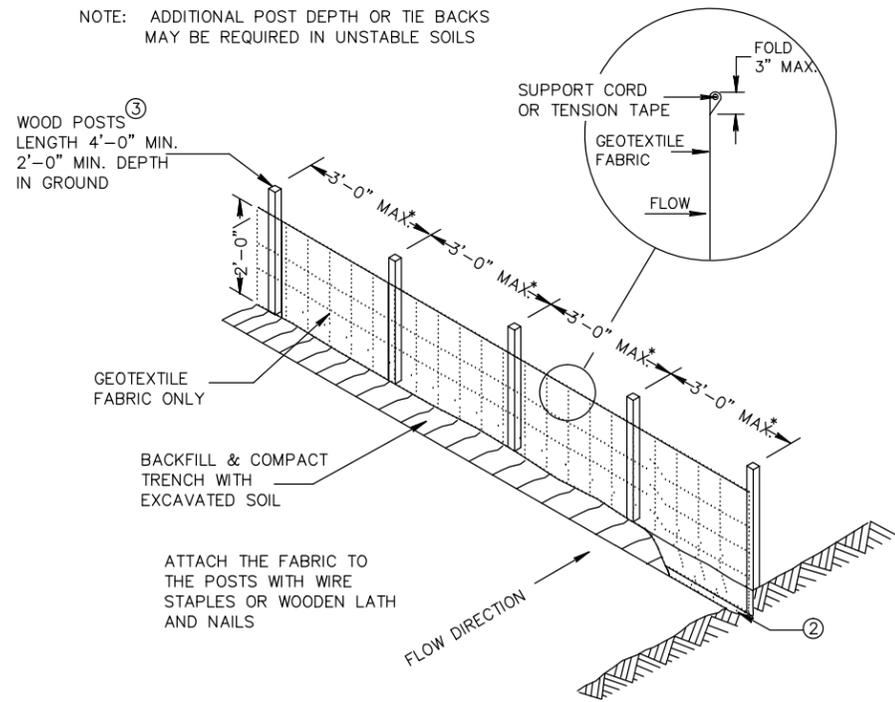
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

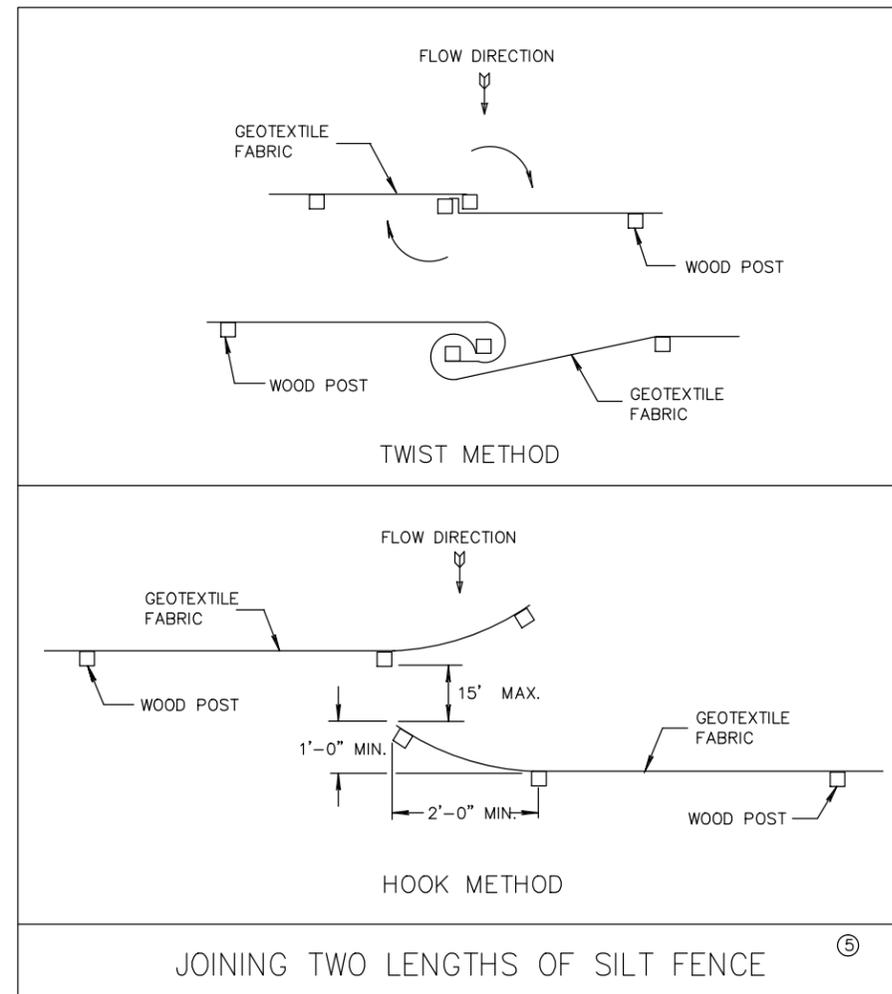
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1-1/2" X 1-1/2" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



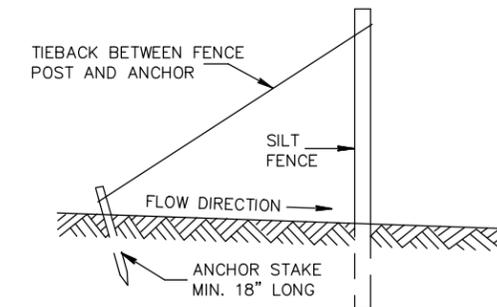
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)



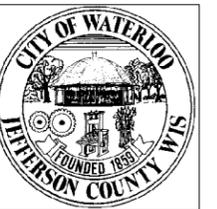
717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
Fx: 608.255.7750
www.saa-madison.com

Professional Seal

Revision Date

Project Name

South Monroe
Street CDBG
Flood Plain
Improvements



City of Waterloo
Wisconsin

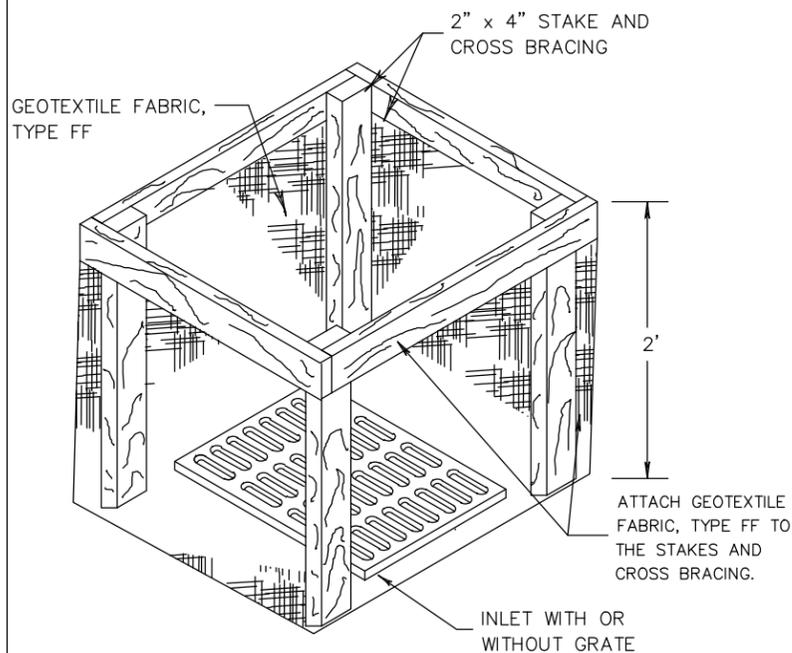
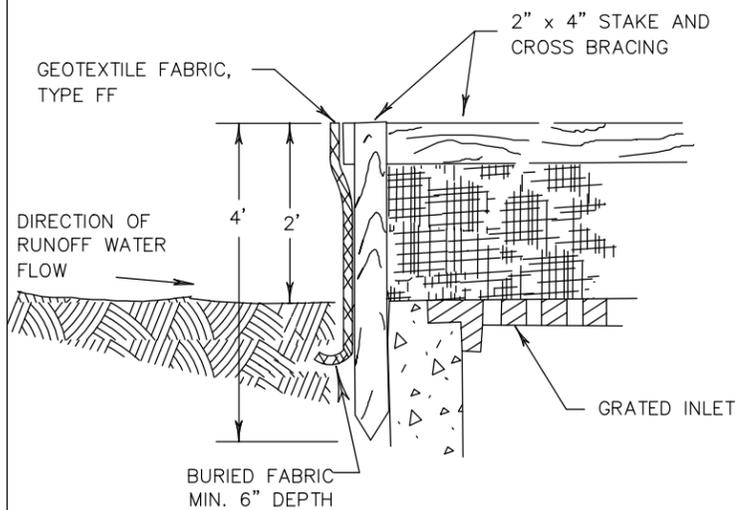
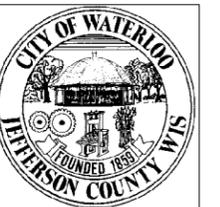
Drawn By: MAF
Checked By: JAL
File: DETAILS2
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION

EROSION
CONTROL
DETAILS

Sheet Number

DT9



INLET PROTECTION, TYPE A

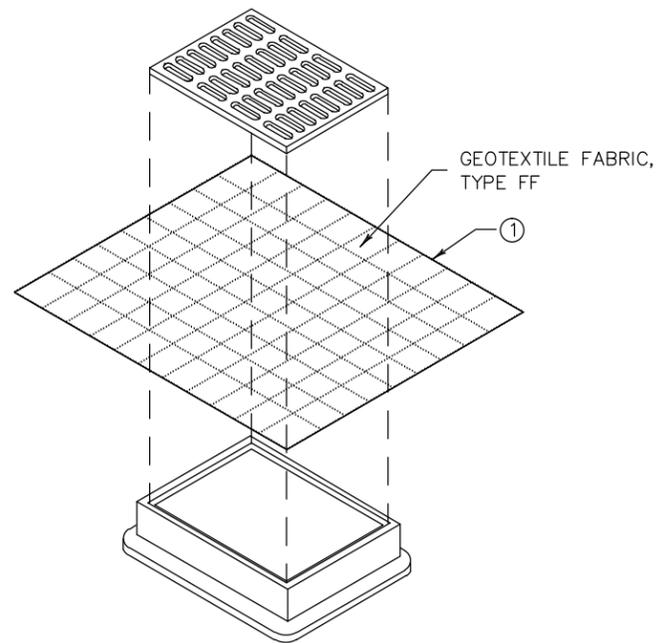
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

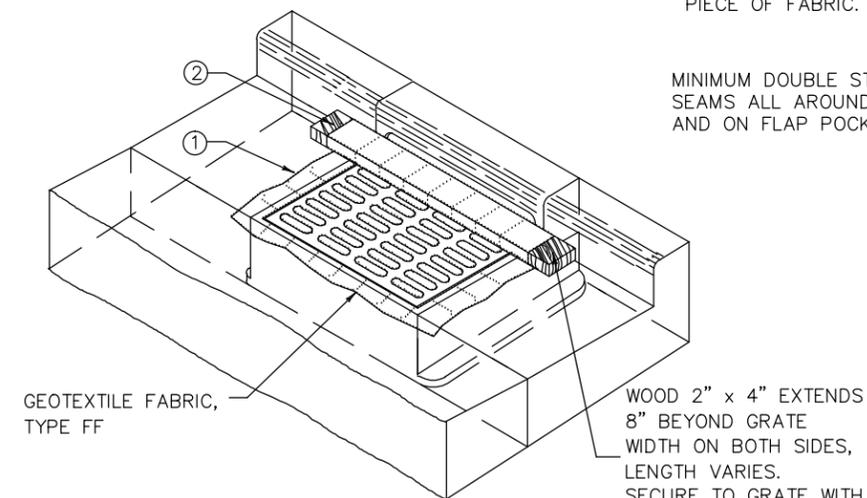
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

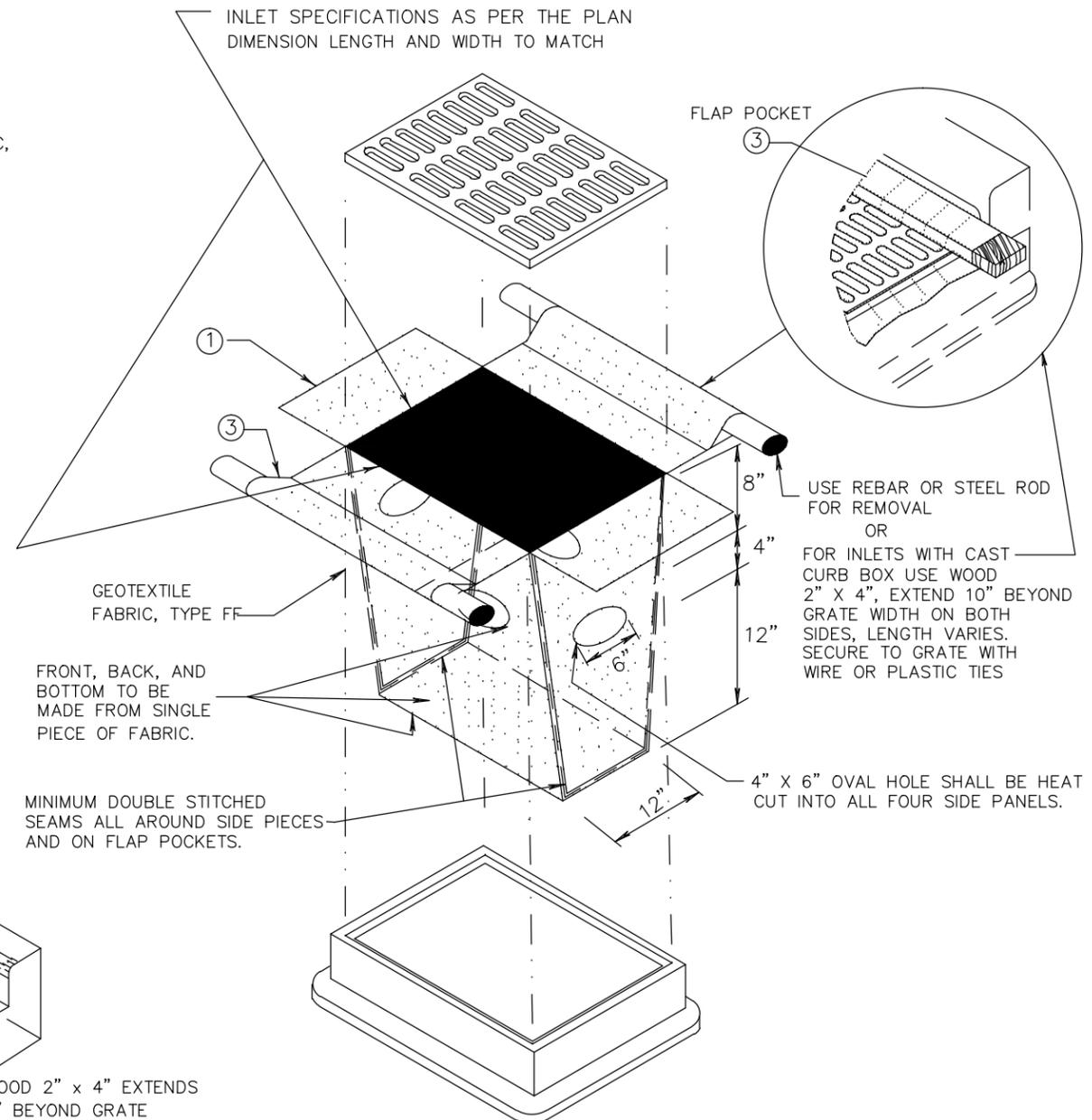
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

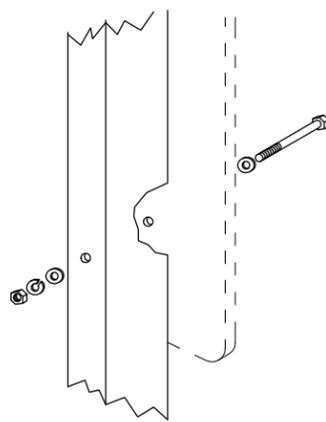
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

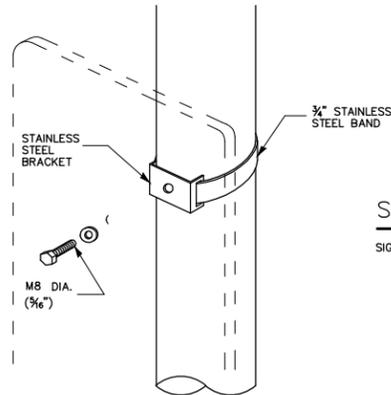


INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

File: P:\1900\1955.16-WtracoMonroeST\CAD\P-Details2.dwg User: mfrnk Plotted: Jan 10, 2012 - 12:26pm



SIGN PANEL 36" WIDE OR LESS

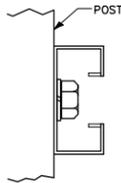


SIGN PANEL 36" WIDE OR LESS

SIGN PANEL MOUNTING DETAIL

SIGN PANEL

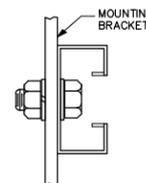
NTS



SIGN PANEL MOUNTING DETAIL

POST

NTS

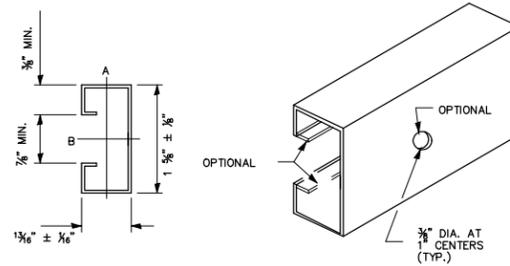


SIGN PANEL MOUNTING DETAIL

MOUNTING BRACKET

NTS

| SECTION MODULUS (MINIMUM) | AXIS A | AXIS B |
|---------------------------|------------------------|------------------------|
| STEEL | 0.050 IN. ³ | 0.105 IN. ³ |
| ALUMINUM | 0.150 IN. ³ | 0.315 IN. ³ |



SIGN PANEL MOUNTING DETAIL

SUPPORTING CHANNEL DETAIL

NTS

| | |
|-----|-----------------------|
| (A) | 2" x 2" x VAR. |
| (B) | 1 1/2" x 1 1/2" x 12" |
| (C) | 2 1/2" x 2 1/2" x 60" |
| (D) | 2 1/2" x 2 1/2" x 18" |
| (E) | 2 1/2" x 2 1/2" x 36" |

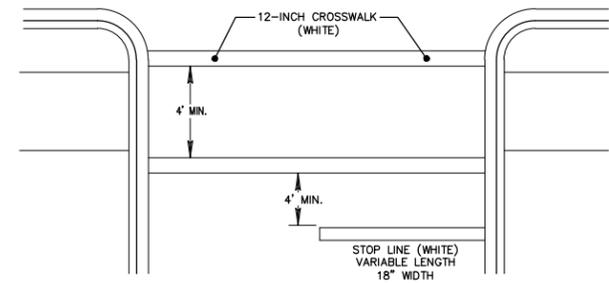
ALL CONNECTIONS TO BE MADE WITH WEATHER RESISTANT DRIVE RIVETS.

POSTS TO BE 1 1/4" x 1 1/4"

TELESCOPING STEEL SIGN SUPPORT

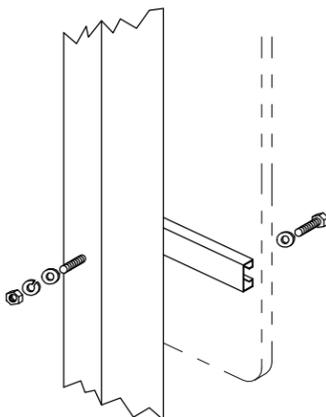
SPLICE DETAIL

NTS

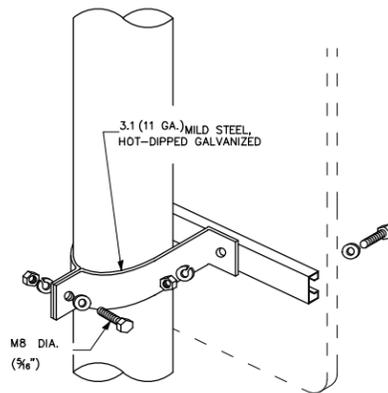


STOP LINE AND CROSSWALK

NTS



SIGN PANEL OVER 36" WIDE



SIGN PANEL OVER 36" WIDE

LIGHT OR SIGNAL STANDARDS

LIGHT OR SIGNAL STANDARDS

NTS

| | |
|-----|-----------------------|
| (A) | 2" x 2" x VAR. |
| (B) | 1 1/2" x 1 1/2" x 12" |
| (C) | 2 1/2" x 2 1/2" x 60" |
| (D) | 2 1/2" x 2 1/2" x 18" |
| (E) | 2 1/2" x 2 1/2" x 36" |

ALL CONNECTIONS TO BE MADE WITH WEATHER RESISTANT DRIVE RIVETS.

POSTS TO BE 1 1/4" x 1 1/4"

TELESCOPING STEEL SIGN SUPPORT

PAVEMENT MOUNT DETAIL

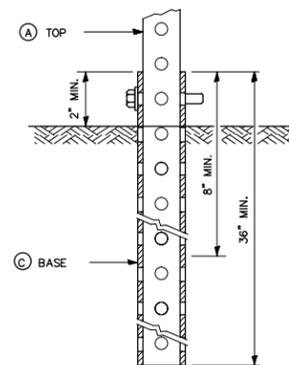
NTS

SIGN PANEL MOUNTING DETAIL

WOOD OR TELESCOPING STEEL POSTS

NTS

| | |
|-----|-----------------------|
| (A) | 2" x 2" x VAR. |
| (B) | 1 1/2" x 1 1/2" x 12" |
| (C) | 2 1/2" x 2 1/2" x 60" |
| (D) | 2 1/2" x 2 1/2" x 18" |
| (E) | 2 1/2" x 2 1/2" x 36" |



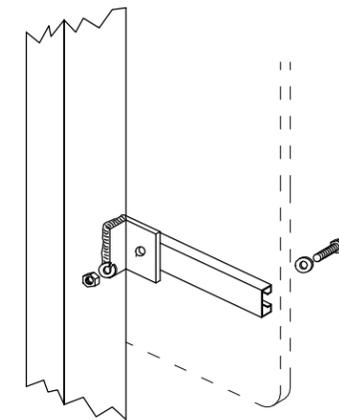
ALL CONNECTIONS TO BE MADE WITH WEATHER RESISTANT DRIVE RIVETS.

POSTS TO BE 1 1/4" x 1 1/4"

TELESCOPING STEEL SIGN SUPPORT

GROUND MOUNT DETAIL

NTS



SIGN PANEL MOUNTING DETAIL

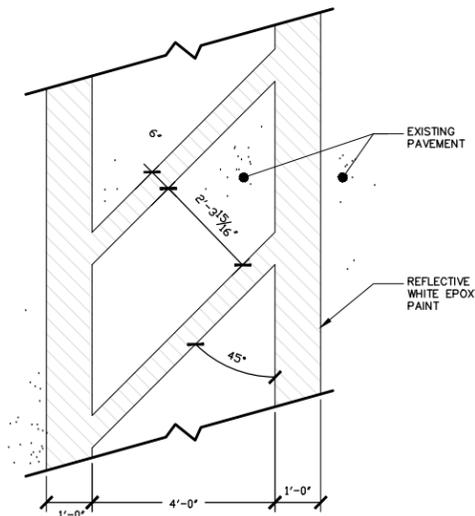
BREAKAWAY STEEL TUBING POSTS (ALL SIGN PANEL SIZES)



R7-2A - 12" x 18"
RED ON WHITE REFLECTIVE
NO PARKING BIKE LANE

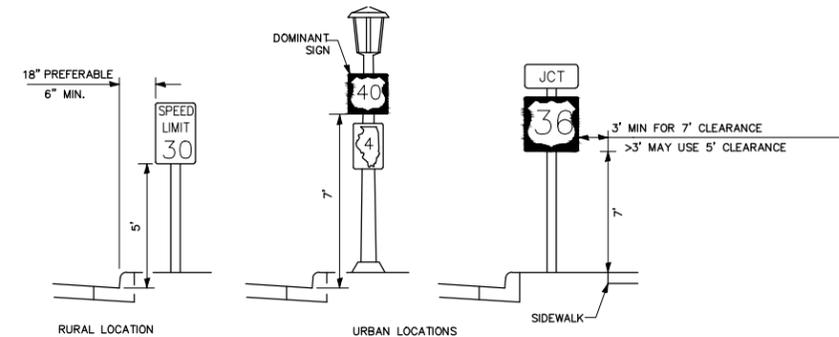
SIGNS

NTS



DETAIL - CROSS-WALK STRIPING

NTS



SIGN PANEL - TYPICAL INSTALLATIONS

NTS

SIGNS IN ANY AREA SHALL BE ERECTED TO A UNIFORM HEIGHT ABOVE THE EDGE OF THE PAVEMENT.



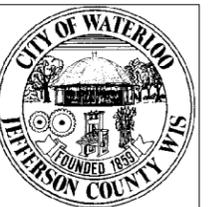
717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

Revision Date

Project Name

South Monroe
Street CDBG
Flood Plain
Improvements



City of Waterloo
Wisconsin

Drawn By: AJO
Checked By: JAL
File: DETAILS2
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

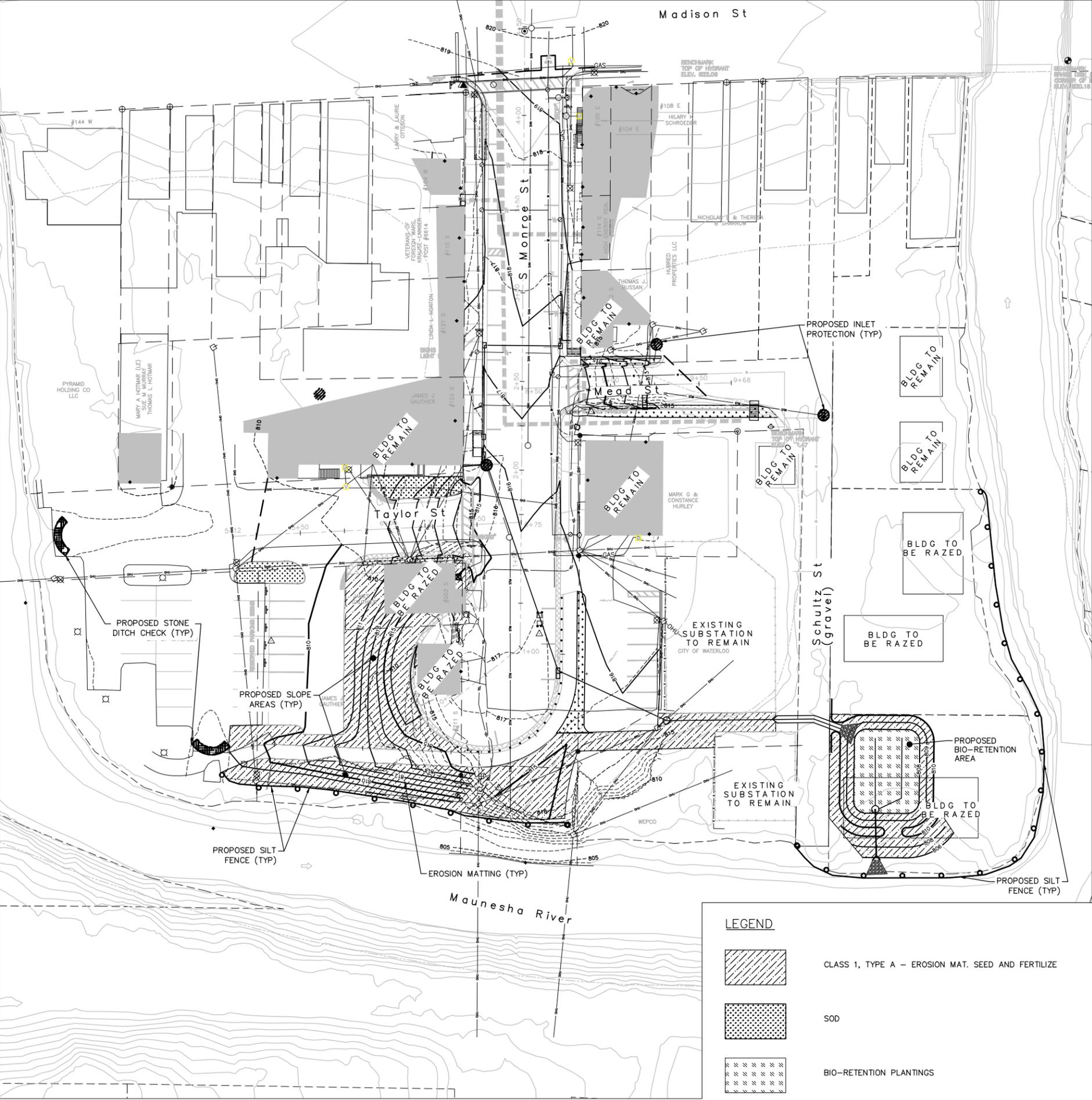
OPTION

MARKING
& SIGNAGE
DETAILS

Sheet Number

DT11

File: P:\1900\1955.16-WtrcoSmonroeSt\CAD\1955.16-Erosion Control.dwg Layout: E1 User: mfnk Plotted: Jan 10, 2012 - 12:26pm



EROSION NOTES:

- A. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED AREA DUE TO THE STEEPNESS OF THE SLOPES INVOLVED AND PROXIMITY TO THE RIVER. THE CONTRACTOR MUST SUBSTANTIALLY FINISH ONE SLOPE AREA PRIOR TO MOVING TO ANOTHER. THESE SLOPED AREAS MAY BE COMPLETED INDEPENDENT OF THE NEW PAVEMENT.
- B. EROSION CONTROL ITEMS ARE INCLUDED IN THE PLAN QUANTITIES. SUGGESTED LOCATIONS FOR INSTALLATION OF EROSION CONTROL ITEMS IS SHOWN IN THE PLANS. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE IN PLACE PRIOR TO CONSTRUCTION. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL SUCH TIME THAT THE ENGINEER DEEMS THE DEVICES NO LONGER NECESSARY.
- C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- D. DISTURBED AREAS SHALL BE STABILIZED WITH SOIL STABILIZER TYPE B IF THERE IS A DELAY OF MORE THAN 7 CALENDAR DAYS BETWEEN INITIAL GRADING AND FINAL TOPSOIL AND SEEDING. SOIL STABILIZER APPLICATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- E. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE.
- F. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- G. A TRACKING MAT WILL NOT BE REQUIRED DUE TO THE LIMITED NATURE OF DISTURBANCE FOR THIS ROAD RECONSTRUCTION.
- H. AT ALL AREAS WHERE CONCENTRATED FLOW MAY LEAVE THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL TEMPORARY STONE DITCH CHECKS AS INDICATED ON THE PLAN. AFTER EACH RAIN OF 1/2" OR MORE, THE CONTRACTOR SHALL REMOVE ANY SEDIMENT THAT HAS ACCUMULATED BEHIND THE TEMPORARY BARRIERS.
- I. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- J. BORROW MATERIAL FOR SLOPE CONSTRUCTION NEED NOT BE STRUCTURAL FILL, BUT MUST BE REASONABLY FREE OF BOULDERS OR DEBRIS TO ALLOW EASE OF PLACEMENT.
- K. INLET PROTECTION SHALL BE INSTALLED IN ALL PROPOSED INLETS UPON PLACEMENT OF THE CASTING.

ANTICIPATED CONSTRUCTION SCHEDULE:

1. INSTALL PROPOSED EROSION CONTROL MEASURES AS SPECIFIED IN THE PLAN.
2. DEMOLISH EXISTING BUILDINGS AS SPECIFIED ON THE PLAN
3. EXCAVATE AND CONSTRUCT PROPOSED BIO-RETENTION AREA TO SUBGRADE TO FUNCTION AS A SEDIMENT BASIN DURING CONSTRUCTION. CONTRACTOR TO UTILIZE THE EXCAVATED MATERIAL FROM THE RAIN GARDEN TO BUILD THE SLOPE ON THE SOUTH AND WEST SIDE OF CUL DE SAC. IF MORE DIRT IS NEEDED TO BUILD THE SLOPES, THE CONTRACTOR SHALL EXCAVATE MATERIAL FROM THE LOTS OF THE RECENTLY RAZED BUILDINGS TO THE EAST OF SHULTZ STREET.
4. FULLY CONSTRUCT SLOPES AND ASSOCIATED ROAD AND BIKE PATH WORK SO THEY CAN BE TOPSOILED, SEEDED AND MATTED PRIOR TO PULVERIZING THE EXISTING PAVEMENT ON SOUTH MONROE STREET.
5. PROPOSED WATER MAIN MAY BE CONSTRUCTED CONCURRENTLY WITH EXCAVATION OF THE RAIN GARDEN AND FILLING THE SLOPES.
6. ONCE THE SLOPES ARE COMPLETE, THE CONTRACTOR MAY PULVERIZE THE EXISTING PAVEMENT AREAS AND REMOVE EXISTING CONCRETE FROM THE SITE.
7. CONTRACTOR MAY THEN COMPLETE UTILITY INSTALLATION, RAISE THE RIMS OF MANHOLE STRUCTURES TO REMAIN IN THE STREET, ABANDON STRUCTURES, ABANDON/PLUG EXISTING STEAM TUNNEL WHERE APPLICABLE, FOUNDATION WORK ON #122 & #114 BUILDINGS ON S. MONROE STREET AND WALL CONSTRUCTION.
8. WITH UTILITIES COMPLETE, THE CONTRACTOR MAY SHAPE THE EXISTING ROAD IN PREPARATION OF IMPORTING GRAVEL TO BRING THE ROAD BED TO PROPOSED SUB BASE ELEVATIONS.
9. CONCRETE CONSTRUCTION.
10. ASPHALT CONSTRUCTION.
11. CONSTRUCT RAIN GARDEN TO PROPOSED ELEVATIONS.
12. REMOVE EROSION CONTROL ITEMS AND RESTORE ANY DISTURBED AREAS.

*SEEDING AND STABILIZATION DEADLINES ARE AS FOLLOWS.
 APPLY HWY #20 SEED MIX AT A RATE OF 3 LBS/1000 SF OF DISTURBED AREA THAT IS NOT TO BE SODDED.
 APPLY ANNUAL RYE/OATS/WHEAT AT A RATE OF 2 LBS/1000 SF OF DISTURBED AREA.
 16-6-24 FERTILIZER SHALL BE APPLIED AT A RATE OF 5 LBS/1000 SF OF DISTURBED AREA.
 AFTER SEPTEMBER 15TH, A COOL WEATHER SEEDING COVER CROP MUST BE APPLIED (I.E. OATS)
 AFTER OCTOBER 15TH, A DORMANT SEEDING COVER CROP MUST BE APPLIED (I.E. WINTER WHEAT)
 AFTER NOVEMBER 15TH, A DORMANT SEEDING MUST BE APPLIED WITH AN ACCEPTABLE SOIL STABILIZER. (POLYACRYLAMIDE)



717 John Nolen Drive
 Madison, WI 53713
 Ph: 608.255.0800
 Fx: 608.255.7750
 www.saa-madison.com

Professional Seal

| Revision | Date |
|----------|------|
| | |
| | |
| | |
| | |
| | |

Project Name

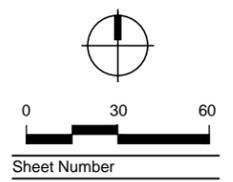
South Monroe
 Street CDBG
 Flood Plain
 Improvements



City of Waterloo
 Wisconsin

Drawn By: MAF
 Checked By: JAL
 File: EROSION CONTROL
 Issued For: BIDDING
 Issue Date: 1/6/2012
 Project No. 1955.16

OPTION
EROSION CONTROL PLAN



Sheet Number
EC1



717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
Fx: 608.255.7750
www.saa-madison.com

Professional Seal

Revision _____ Date _____

Project Name _____

South Monroe
Street CDBG
Building
Demolition



City of Waterloo
Wisconsin

Drawn By: AJO

Checked By:

File:

Issued For: REVIEW

Issue Date: 8/22/2011

Project No. 1955.16

OPTION

DEMOLITION



0 30 60

Sheet Number

DM1

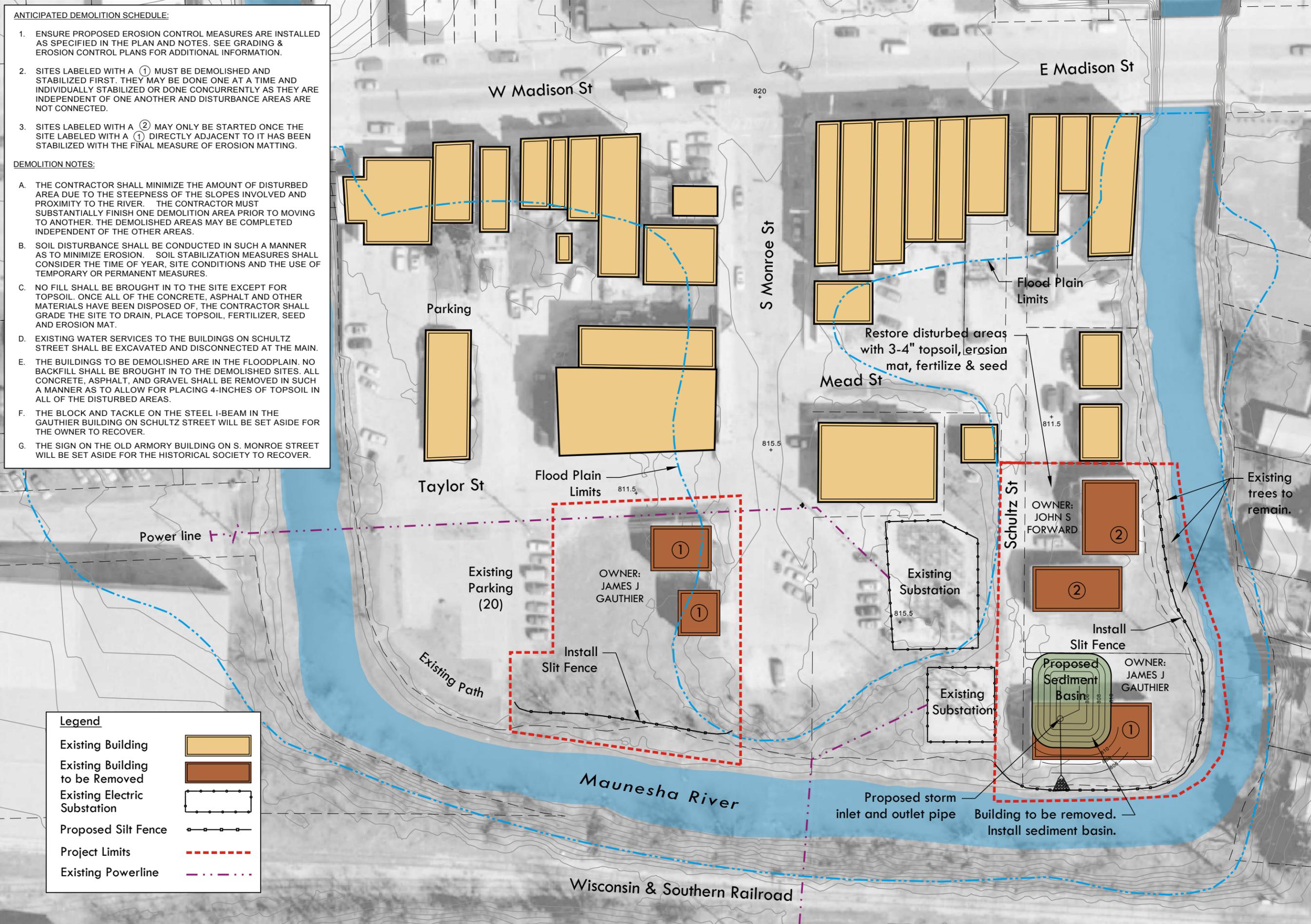
ANTICIPATED DEMOLITION SCHEDULE:

1. ENSURE PROPOSED EROSION CONTROL MEASURES ARE INSTALLED AS SPECIFIED IN THE PLAN AND NOTES. SEE GRADING & EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.
2. SITES LABELED WITH A ① MUST BE DEMOLISHED AND STABILIZED FIRST. THEY MAY BE DONE ONE AT A TIME AND INDIVIDUALLY STABILIZED OR DONE CONCURRENTLY AS THEY ARE INDEPENDENT OF ONE ANOTHER AND DISTURBANCE AREAS ARE NOT CONNECTED.
3. SITES LABELED WITH A ② MAY ONLY BE STARTED ONCE THE SITE LABELED WITH A ① DIRECTLY ADJACENT TO IT HAS BEEN STABILIZED WITH THE FINAL MEASURE OF EROSION MATTING.

DEMOLITION NOTES:

- A. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED AREA DUE TO THE STEEPNESS OF THE SLOPES INVOLVED AND PROXIMITY TO THE RIVER. THE CONTRACTOR MUST SUBSTANTIALLY FINISH ONE DEMOLITION AREA PRIOR TO MOVING TO ANOTHER. THE DEMOLISHED AREAS MAY BE COMPLETED INDEPENDENT OF THE OTHER AREAS.
- B. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- C. NO FILL SHALL BE BROUGHT IN TO THE SITE EXCEPT FOR TOPSOIL. ONCE ALL OF THE CONCRETE, ASPHALT AND OTHER MATERIALS HAVE BEEN DISPOSED OF, THE CONTRACTOR SHALL GRADE THE SITE TO DRAIN, PLACE TOPSOIL, FERTILIZER, SEED AND EROSION MAT.
- D. EXISTING WATER SERVICES TO THE BUILDINGS ON SCHULTZ STREET SHALL BE EXCAVATED AND DISCONNECTED AT THE MAIN.
- E. THE BUILDINGS TO BE DEMOLISHED ARE IN THE FLOODPLAIN. NO BACKFILL SHALL BE BROUGHT IN TO THE DEMOLISHED SITES. ALL CONCRETE, ASPHALT, AND GRAVEL SHALL BE REMOVED IN SUCH A MANNER AS TO ALLOW FOR PLACING 4-INCHES OF TOPSOIL IN ALL OF THE DISTURBED AREAS.
- F. THE BLOCK AND TACKLE ON THE STEEL I-BEAM IN THE GAUTHIER BUILDING ON SCHULTZ STREET WILL BE SET ASIDE FOR THE OWNER TO RECOVER.
- G. THE SIGN ON THE OLD ARMORY BUILDING ON S. MONROE STREET WILL BE SET ASIDE FOR THE HISTORICAL SOCIETY TO RECOVER.

File: P:\19001\1955.16-Wrloo\South Monroe\STCAD\Demolition\12_0106_Concept-Demo.dwg Layout: Illustration User: aokeefe Plotted: Jan 09, 2012 - 9:52am



Legend

- Existing Building
- Existing Building to be Removed
- Existing Electric Substation
- Proposed Silt Fence
- Project Limits
- Existing Powerline



717 John Nolen Drive
 Madison, WI 53713
 Ph: 608.255.0800
 Fx: 608.255.7750
 www.saa-madison.com

Professional Seal

Revision _____ Date _____

Project Name

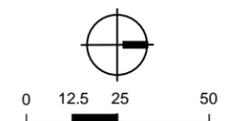
South Monroe
 Street CDBG
 Flood Plain
 Improvements



City of Watertown
 Wisconsin

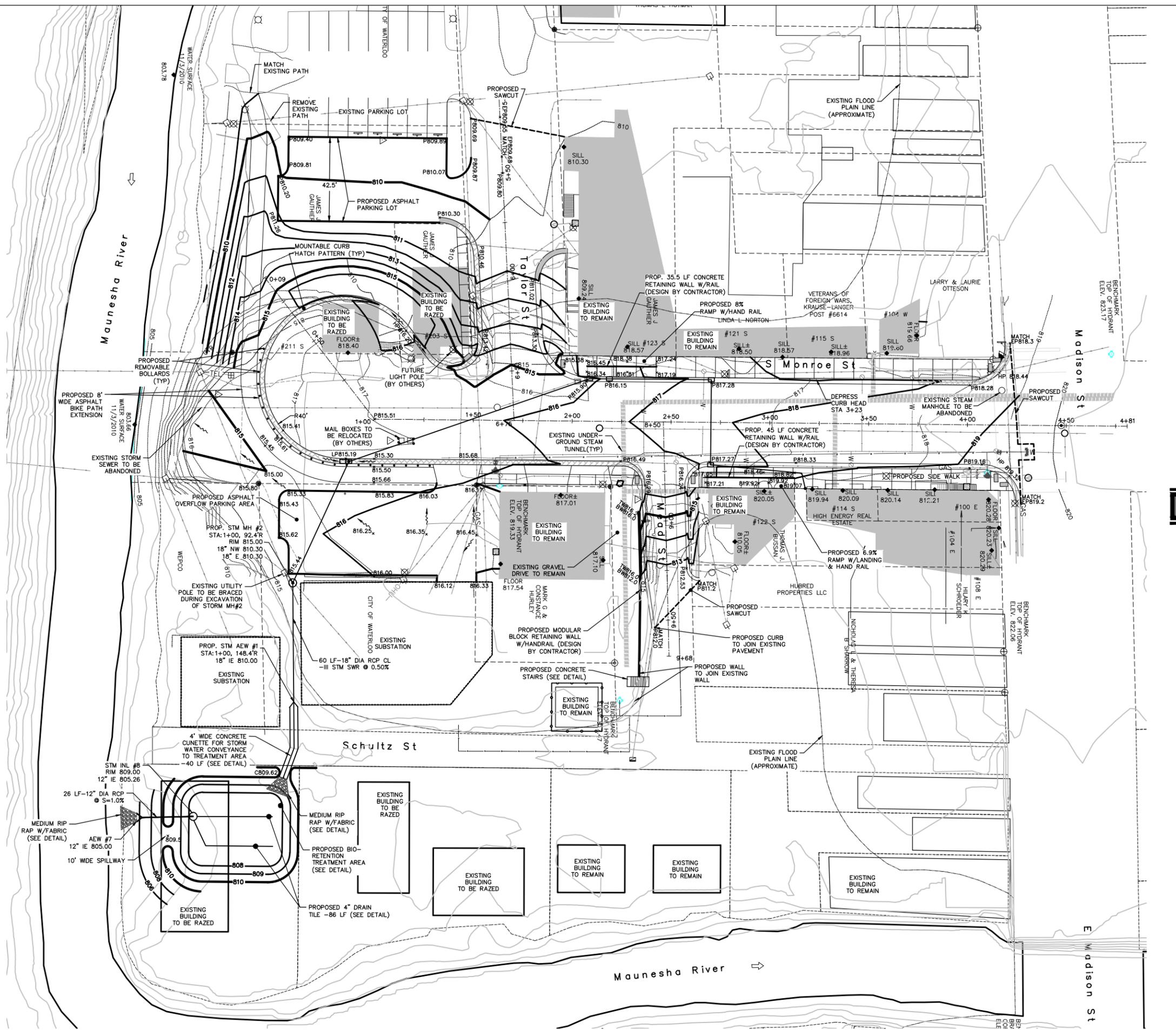
Drawn By: MAF
 Checked By: JAL
 File: DESIGN
 Issued For: BIDDING
 Issue Date: 1/6/2012
 Project No. 1955.16

OPTION
 GRADING PLAN



Sheet Number

G-1



Toll Free (800) 242-8511
 Milwaukee Area (414) 259-1181
 Hearing Impaired TDD (800) 542-2289
 www.DiggersHotline.com

File: C:\Users\mfink\AppData\local\temp\AcPublish_1892\Design.dwg Layout: GRADING User: mfink Plotted: Jan 10, 2012 12:29pm



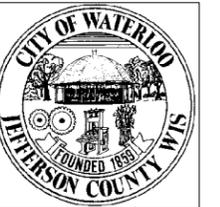
717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

Revision Date

Project Name

South Monroe Street CDBG
Flood Plain
Improvements

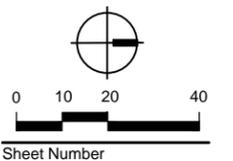


Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

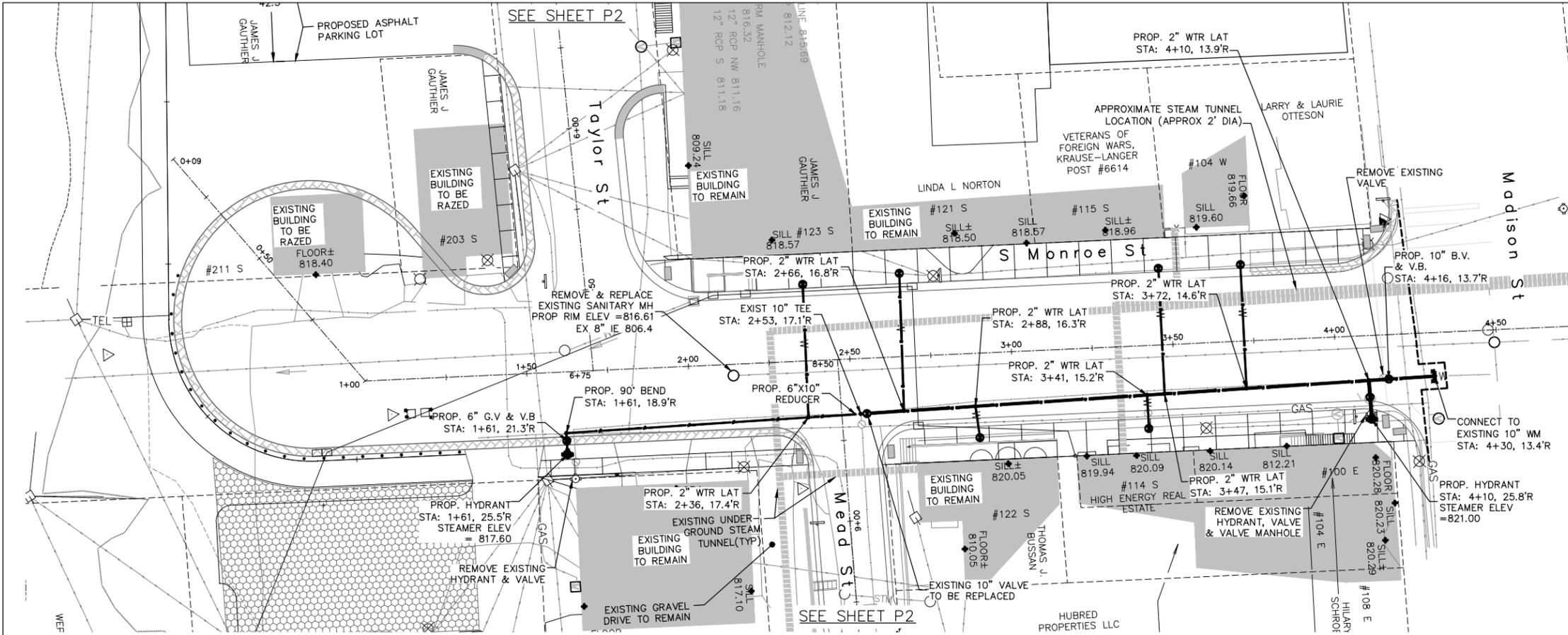
City of Waterloo
Wisconsin

Drawn By: MAF
Checked By: JAL
File: DESIGN
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION
S. MONROE ST
WATER MAIN
RECONSTRUCTION

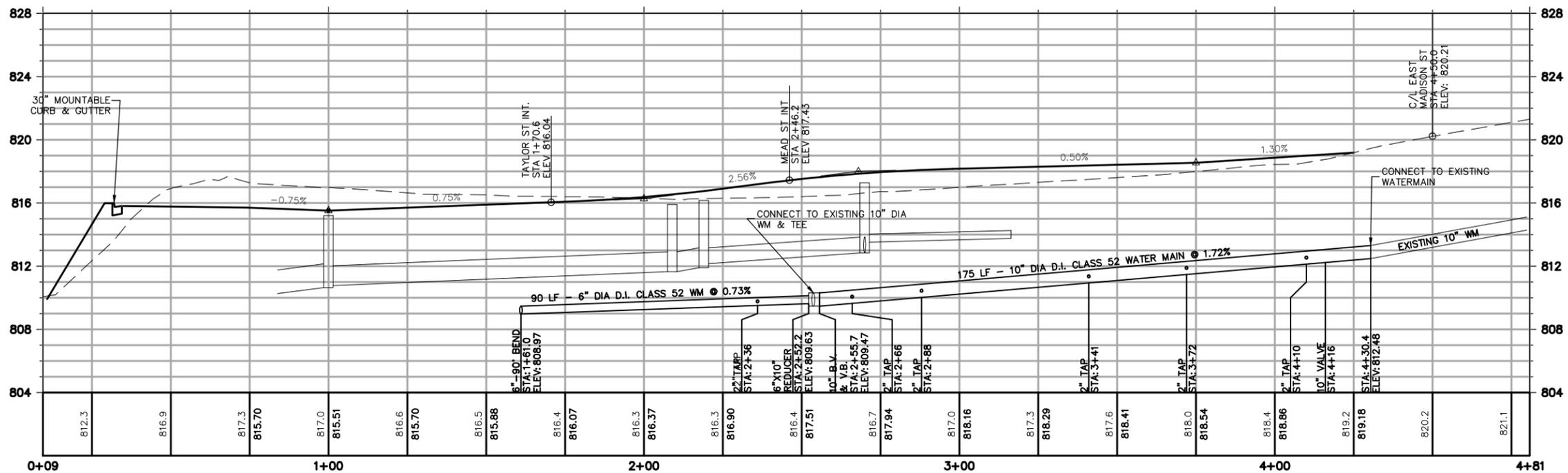


Sheet Number
W-1

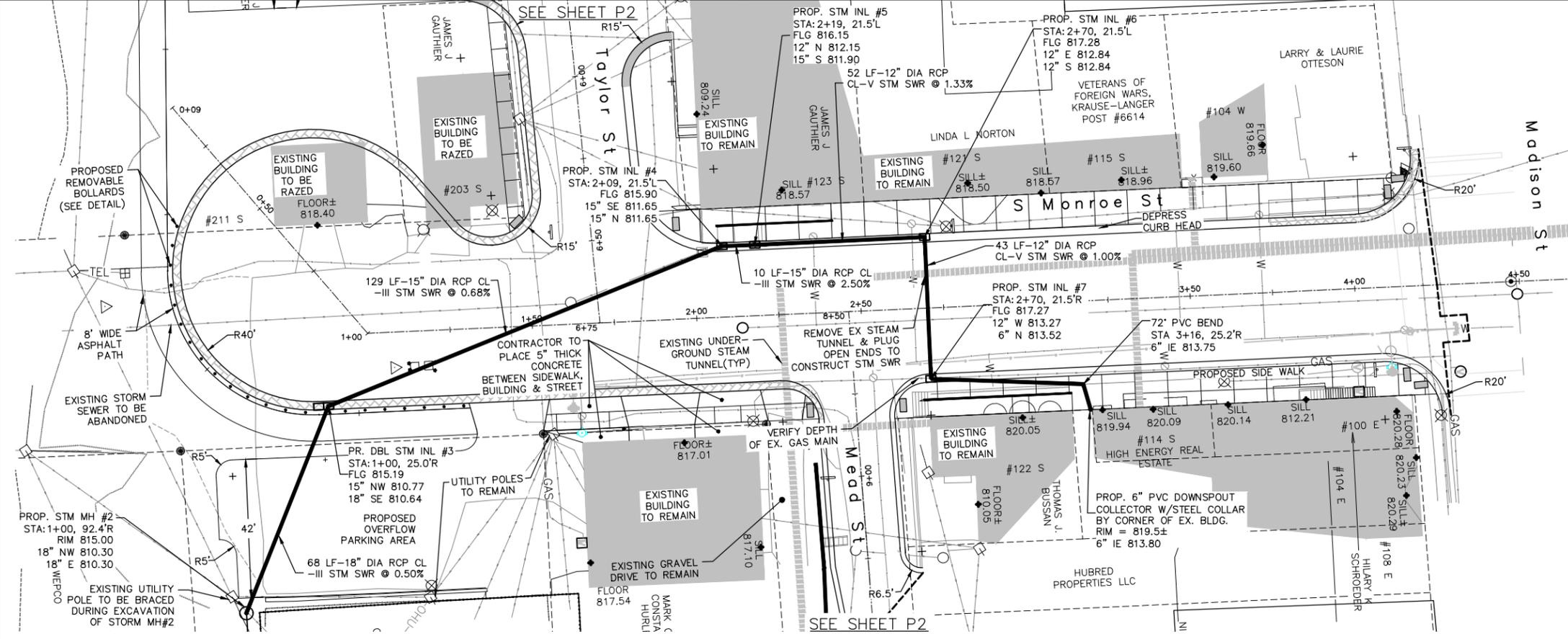


NOTES:

1. PROPOSED WATER MAIN IS INTENDED TO BE CONSTRUCTED TO THE EAST AND UNDER THE EXISTING WATER MAIN.
2. THE PROPOSED WATER MAIN SHALL BE CONSTRUCTED AND TESTED PRIOR TO DEACTIVATING AND ABANDONING THE EXISTING WATER MAIN.
3. ALL REMOVED EXISTING WATER MAIN STRUCTURES SHALL BE SALVAGED AND TURNED OVER TO THE WATER DEPARTMENT.
4. ALL EXISTING CURB STOPS SHALL BE REPLACED WITH NEW 2" CURB STOPS AT THE APPROXIMATE LOCATION OF THE EXISTING CURB STOP. ALL EXISTING WATER SERVICES TO BE REPLACED AS SHOWN ON THE PLANS.
5. AT ALL LOCATIONS WHERE THE WATER SERVICES CROSS THE EXISTING UNDERGROUND STEAM PIPES (APPROX. 2' DIA), THE CONTRACTOR SHALL CONSTRUCT THE SERVICE UNDERNEATH THE STEAM PIPE AND SHALL MAKE EVERY EFFORT TO NOT DISTURB THE STEAM PIPES. ANY DAMAGE TO THE STEAM PIPE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



File: C:\Users\mfink\AppData\Local\Temp\AcPublish_1892\p-storm.dwg Layout: MONROE_STM User: mfink Plotted: Jan 10, 2012 - 12:30pm



- NOTES:**
1. ALL STREET LIGHTS SHALL BE CAREFULLY REMOVED AND STORED BY THE CITY TO BE RE-USED ONCE THE SIDEWALK AND POLE BASES HAVE BEEN RECONSTRUCTED.
 2. BOLLARDS SHALL BE REMOVABLE AND THE CONNECTION POINT WITH THE GROUND SHALL BE FLUSH SO AS NOT TO INTERFERE WITH SNOW REMOVAL EQUIPMENT.
 3. ALL INTERSECTIONS OF SIDEWALK WITH THE STREET WHERE THERE IS A CROSS-WALK SHALL HAVE HANDICAP ACCESSIBLE RAMPS WITH DETECTABLE WARNING FIELDS INSTALLED UNLESS OTHERWISE NOTED ON THE PLANS.
 4. SEE PAVEMENT MARKING & SIGNING PLAN FOR ADDITIONAL STREET INFORMATION.
 5. ELEVATIONS FOR CURB RETURNS CAN BE FOUND ON THE GRADING & EROSION CONTROL PLAN.

SAA

717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
Fx: 608.255.7750
www.saa-madison.com

Professional Seal

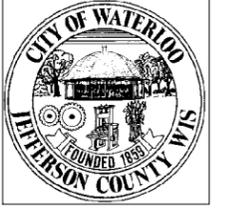
| Revision | Date |
|----------|------|
| | |
| | |
| | |
| | |
| | |

Project Name

South Monroe Street CDBG Flood Plain Improvements

DIGGERS HOTLINE

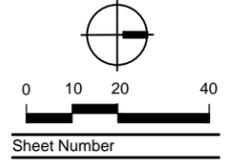
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com



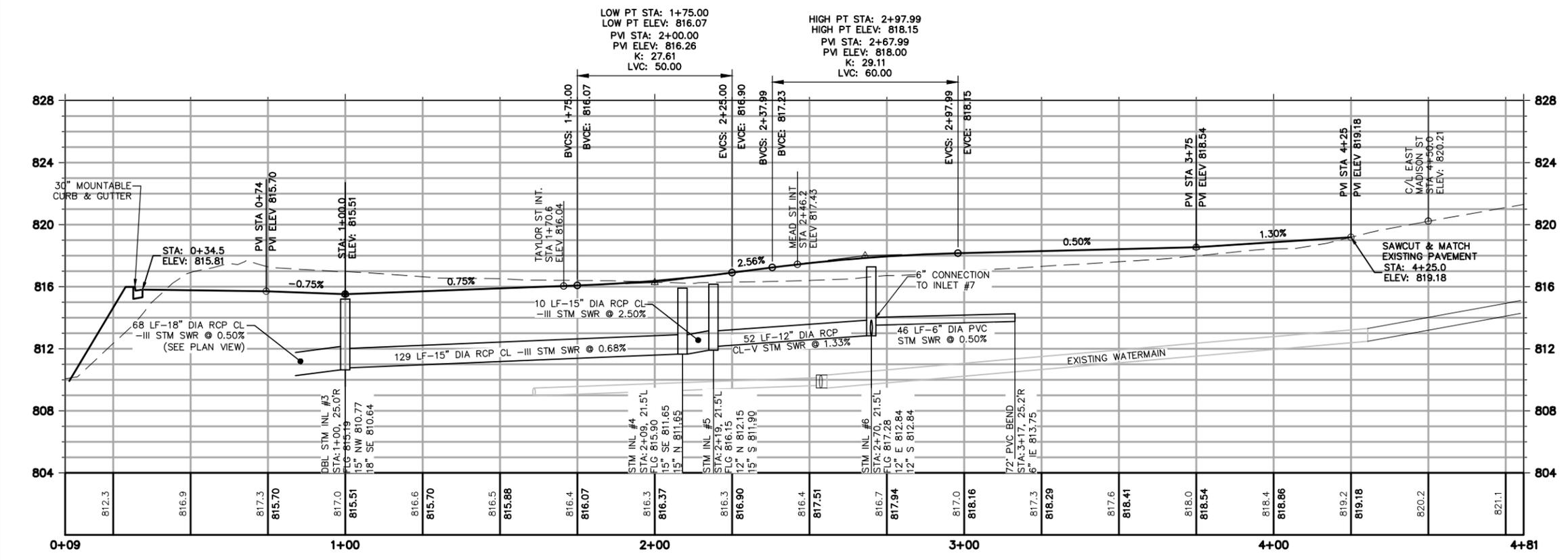
City of Waterloo Wisconsin

Drawn By: MAF
Checked By: JAL
File: DESIGN
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION
S. MONROE ST PAVING & STORM RECONSTRUCTION



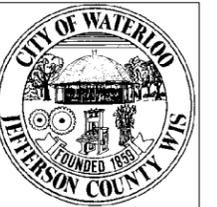
P-1



South Monroe Street CDBG Flood Plain Improvements



Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com



City of Waterloo Wisconsin

Drawn By: MAF
Checked By: JAL
File: DESIGN
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION

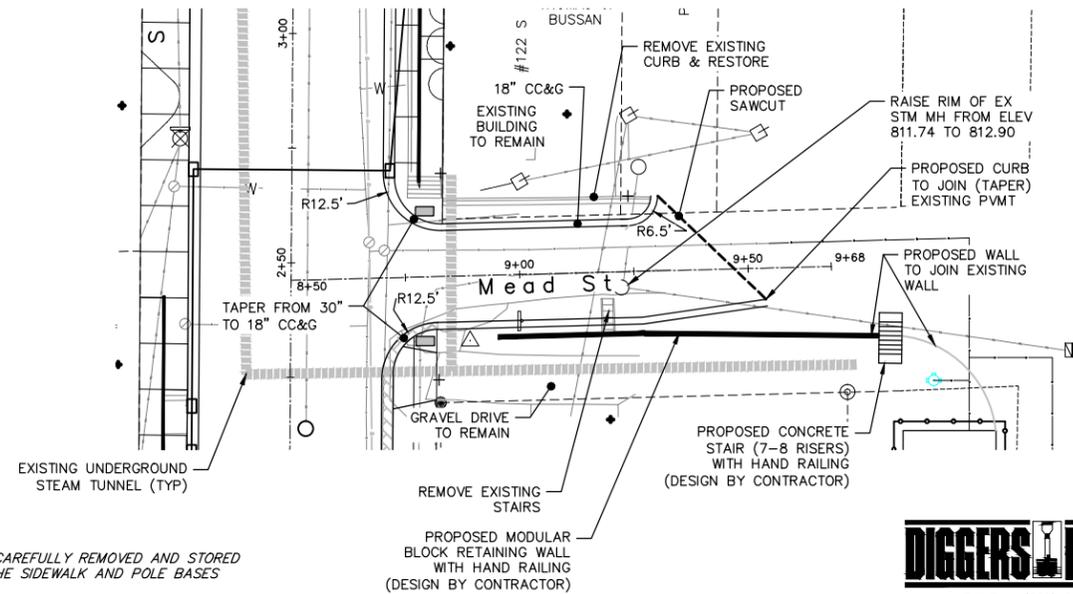
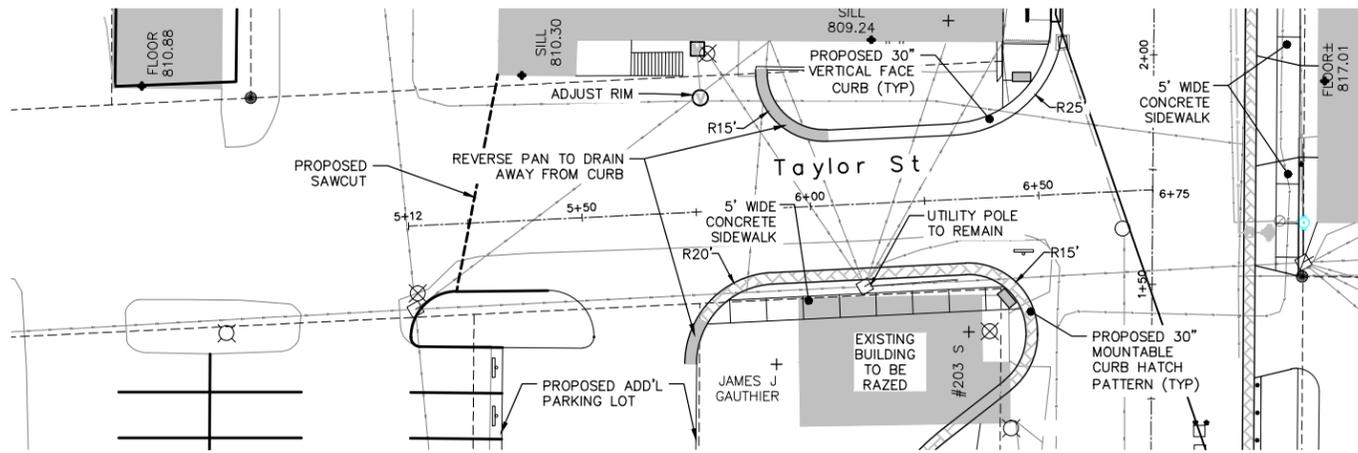
**TAYLOR ST (LFT)
MEAD ST (RT)
PAVING**



0 10 20 40

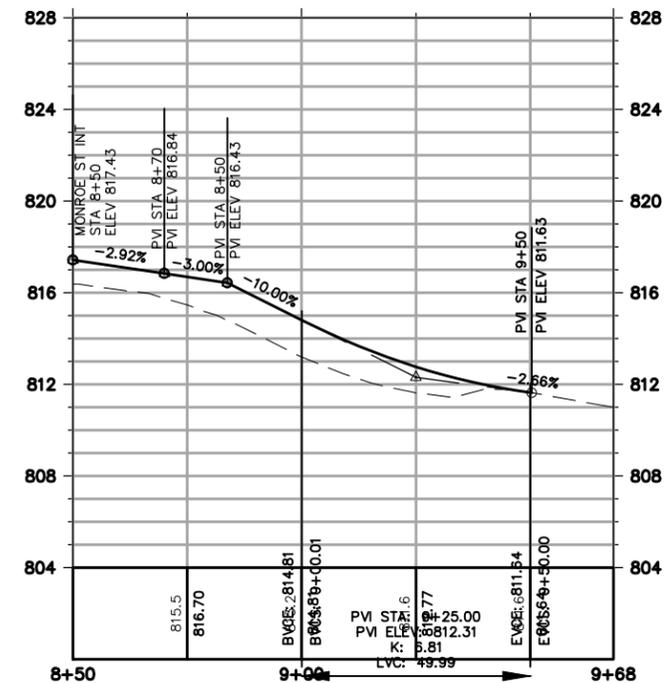
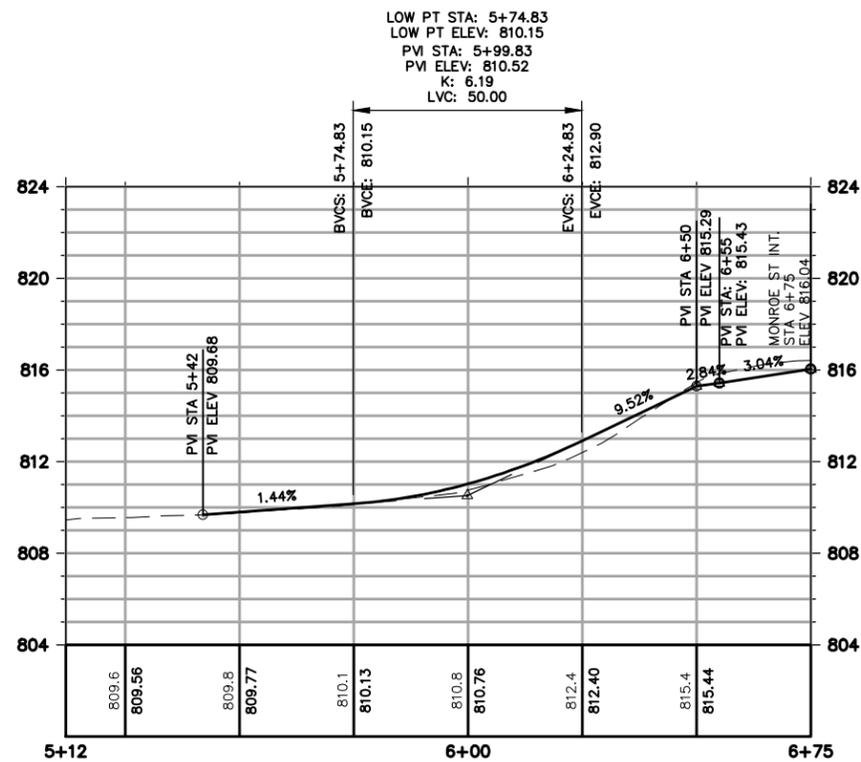
Sheet Number

P-2

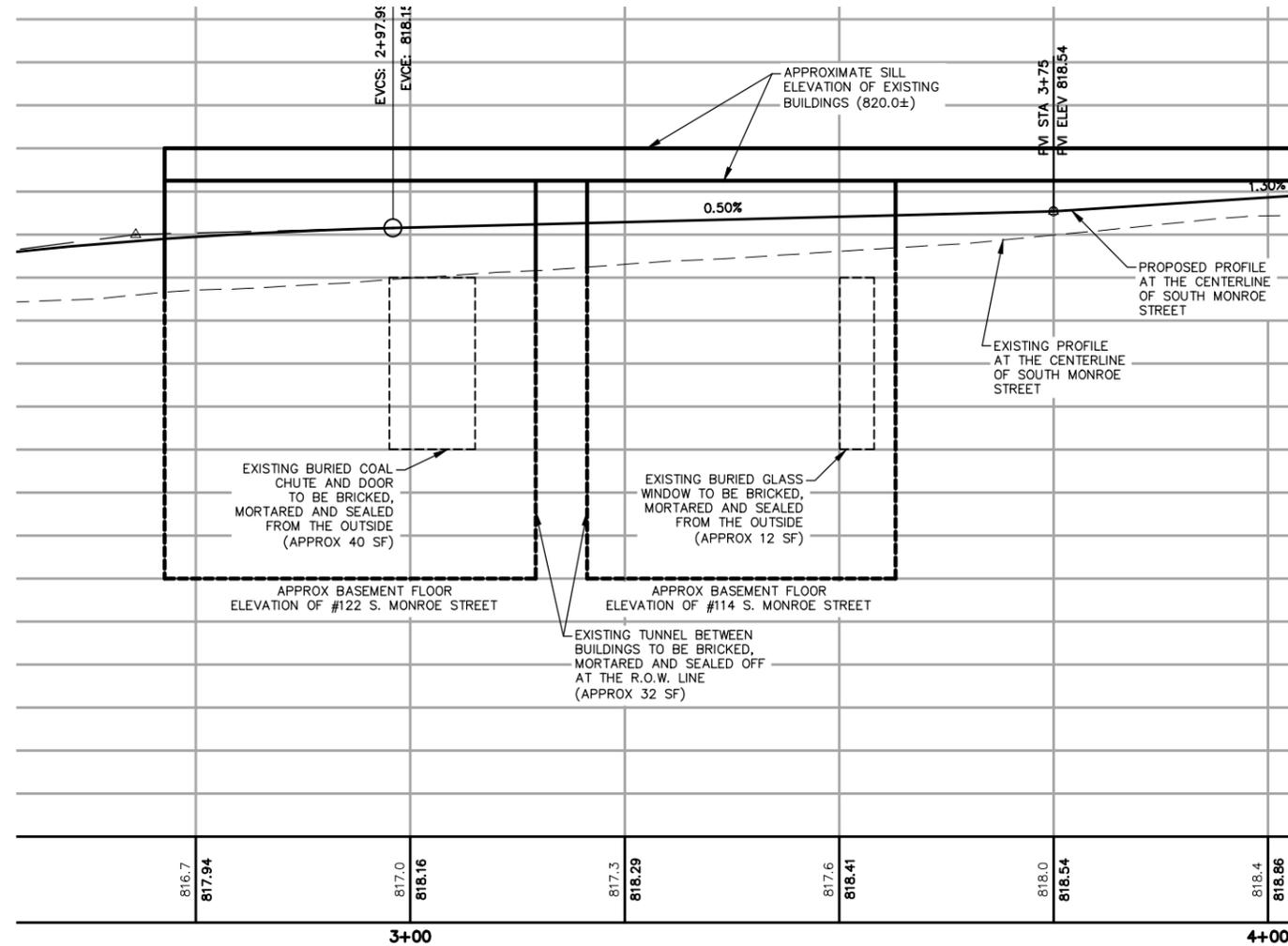
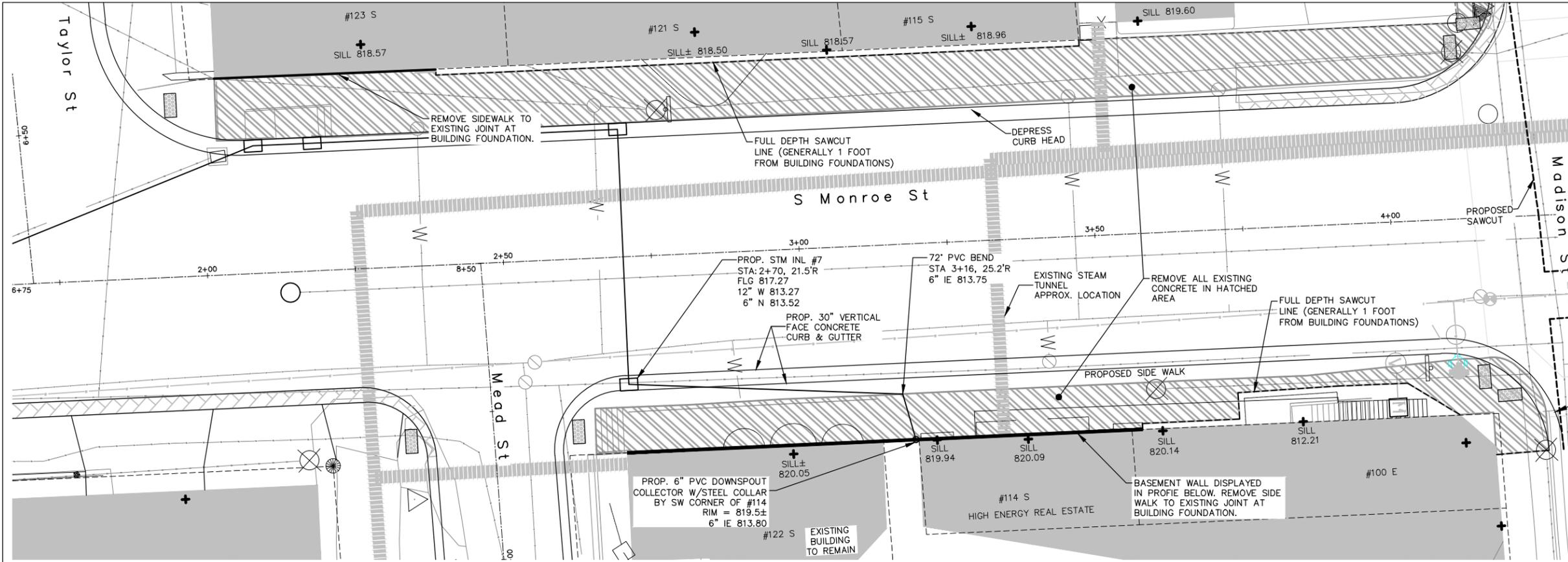


NOTES:

1. ALL STREET LIGHTS SHALL BE CAREFULLY REMOVED AND STORED BY CITY TO BE RE-USED ONCE THE SIDEWALK AND POLE BASES HAVE BEEN RECONSTRUCTED.
2. BOLLARDS SHALL BE REMOVABLE AND THE CONNECTION POINT WITH THE GROUND SHALL BE FLUSH SO AS NOT TO INTERFERE WITH SNOW REMOVAL EQUIPMENT.
3. ALL INTERSECTIONS OF SIDEWALK WITH THE STREET WHERE THERE IS A CROSS-WALK SHALL HAVE HANDICAP ACCESSIBLE RAMPS WITH DETECTABLE WARNING FIELDS INSTALLED UNLESS OTHERWISE NOTED ON THE PLANS.
4. SEE PAVEMENT MARKING & SIGNING PLAN FOR ADDITIONAL STREET INFORMATION.
5. ELEVATIONS FOR CURB RETURNS CAN BE FOUND ON THE GRADING & EROSION CONTROL PLAN.



File: P:\1900\1955.16-WtrioSMonroeSt\CAD\P-FOUNDATION.dwg Layout: MONROE FOUNDATION User: mfrnk Plotted: Jan 10, 2012 - 12:31pm



- NOTES:
1. CONTRACTOR TO NOTIFY OWNERS OF #122 AND #114 S. MONROE STREET A MINIMUM OF 1 DAY PRIOR TO EXCAVATION OUTSIDE OF THE BUILDINGS.
 2. CONTRACTOR SHALL TAKE GREAT CARE NOT TO BREAK THE EXISTING BURIED WINDOW IN #114 SINCE IT HAS BEEN DRYWALLED OVER ON THE INSIDE.
 3. CONTRACTOR TO SAWCUT ALL OTHER SIDEWALK OUTSIDE OF OTHER BUILDINGS GENERALLY 1 FOOT FROM THE FOUNDATION WALL TO MINIMIZE THE POSSIBILITY OF DAMAGING THE OTHER FOUNDATION WALLS.
 4. THE ENTIRE WEST BASEMENT WALLS OF #122 & #114 S. MONROE STREET WILL BE WATER PROOFED PRIOR TO BACKFILLING WITH GRANULAR BACKFILL ONCE THE BURIED OPENINGS HAVE BEEN APPROPRIATELY CLOSED.
 5. IF THE STEAM TUNNEL (APPROXIMATE LOCATION SHOWN) IS ENCOUNTERED IN OR NEAR THE FOUNDATION WALL, THE CONTRACTOR SHALL DISCONNECT THE TUNNEL FROM THE WALL AND PLUG IT AT THE MOST FEASIBLE LOCATION.
 6. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO BUILDINGS DURING CONSTRUCTION.

DIGGERS HOTLINE
 Toll Free (800) 242-8511
 Milwaukee Area (414) 259-1181
 Hearing Impaired TDD (800) 542-2289
 www.DiggersHotline.com

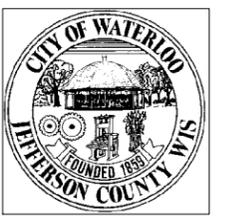
SAA
 717 John Nolen Drive
 Madison, WI 53713
 Ph: 608.255.0800
 Fx: 608.255.7750
 www.saa-madison.com

Professional Seal

| Revision | Date |
|----------|------|
| | |
| | |
| | |
| | |

Project Name

South Monroe Street CDBG Flood Plain Improvements



City of Waterloo Wisconsin

Drawn By: MAF
 Checked By: JAL
 File: DESIGN
 Issued For: BIDDING
 Issue Date: 1/6/2012
 Project No. 1955.16

OPTION
 BUILDING #122 & #114 FOUNDATION REPAIR

0 5 10 20
 Sheet Number

F-1

Professional Seal

Revision Date

Project Name

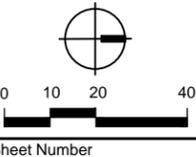
South Monroe Street CDBG Flood Plain Improvements



City of Waterloo Wisconsin

Drawn By: MAF
Checked By: JAL
File: DESIGN
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION
S. MONROE ST STREET & STORM RECONSTRUCTION

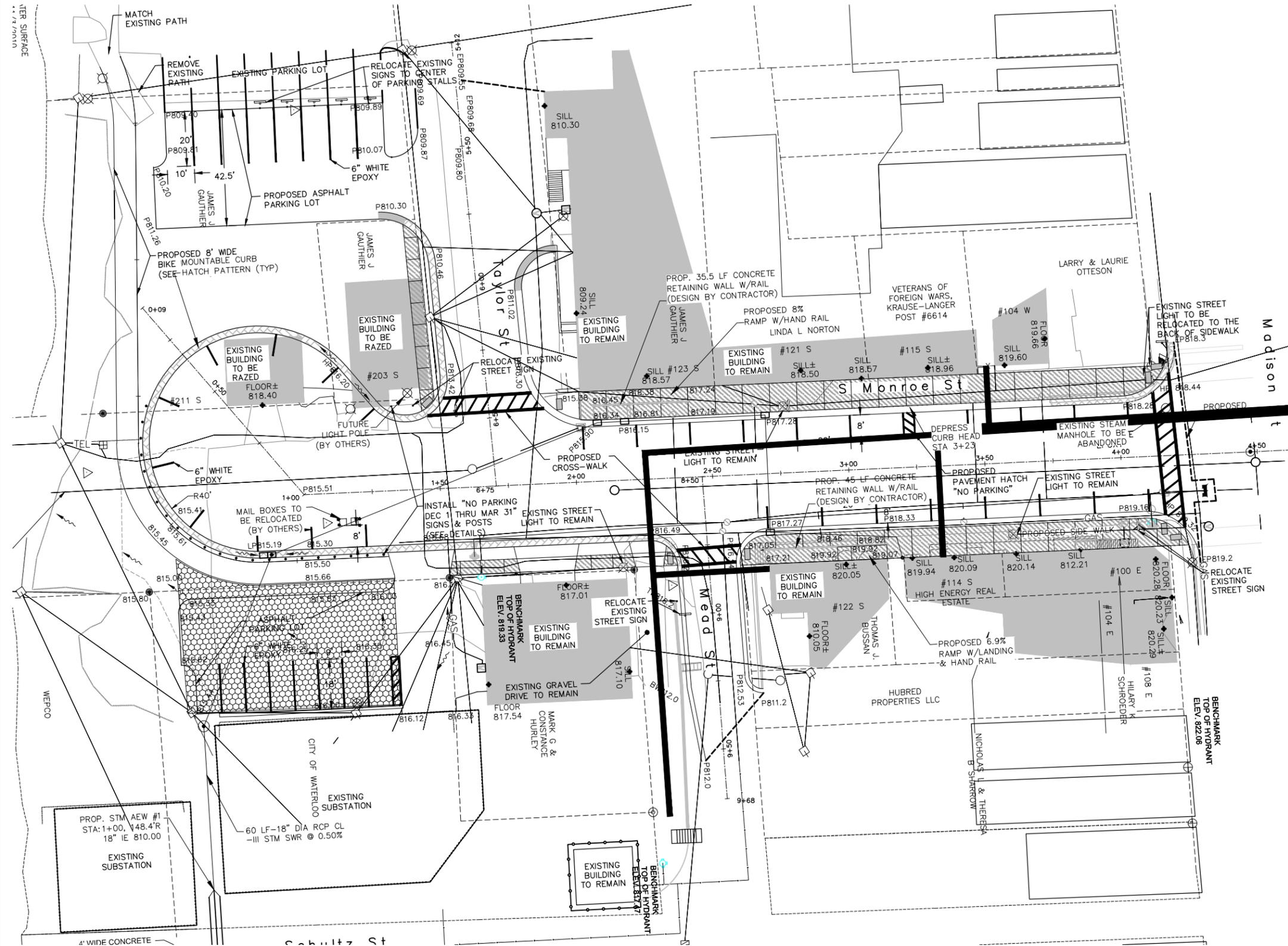


Sheet Number

M-1

NOTES:

1. ALL STREET LIGHTS SHALL BE CAREFULLY REMOVED AND STORED BY THE CITY TO BE RE-USED ONCE THE SIDEWALK AND POLE BASES HAVE BEEN RECONSTRUCTED.
2. BOLLARDS SHALL BE REMOVABLE AND THE CONNECTION POINT WITH THE GROUND SHALL BE FLUSH SO AS NOT TO INTERFERE WITH SNOW REMOVAL EQUIPMENT.
3. ALL INTERSECTIONS OF SIDEWALK WITH THE STREET WHERE THERE IS A CROSS-WALK SHALL HAVE HANDICAP ACCESSIBLE RAMPS WITH DETECTABLE WARNING FIELDS INSTALLED UNLESS OTHERWISE NOTED ON THE PLANS.
4. SEE PAVING & STORM SEWER PLAN FOR ADDITIONAL INFORMATION.
5. ELEVATIONS FOR CURB RETURNS CAN BE FOUND ON THE GRADING & EROSION CONTROL PLAN.
6. PARKING STALL LINES SHALL BE INSTALLED WITH 6" WHITE EPOXY PAINT.



File: P:\1900\1955.16-WtriooMonroeSt\CAD\P-Marking&Signage.dwg Layout: MARKING User: mfinck Plotted: Jan 10, 2012 - 12:31pm



717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

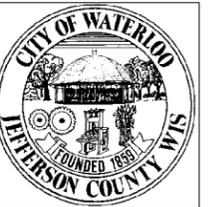
Revision Date

Project Name

South Monroe
Street CDBG
Flood Plain
Improvements



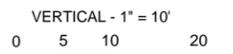
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com



City of Waterloo
Wisconsin

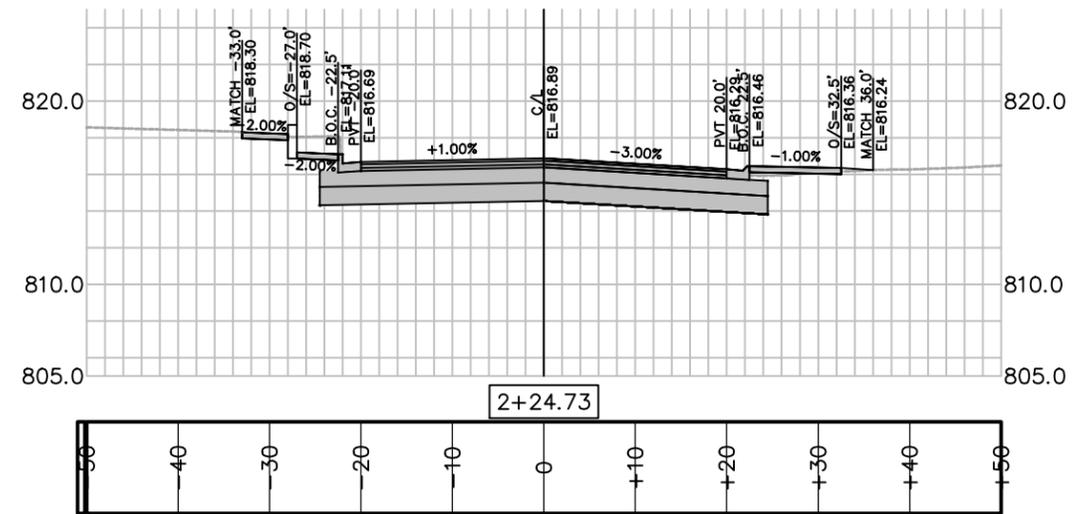
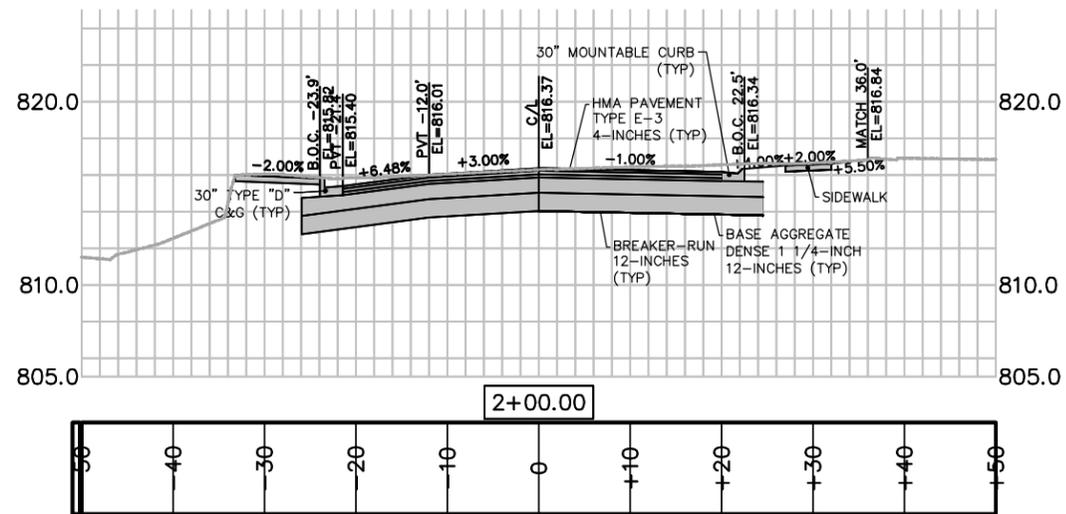
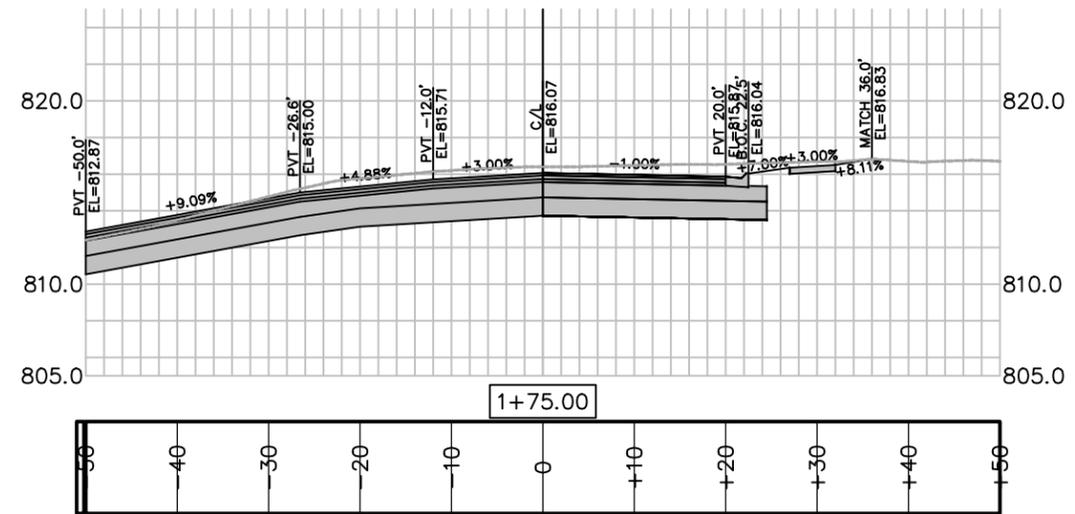
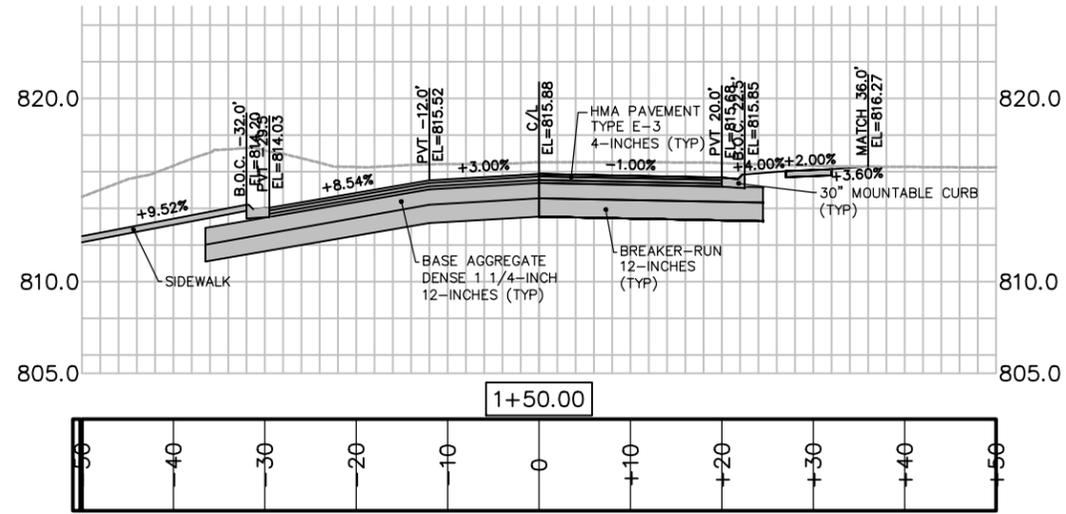
Drawn By: MAF
Checked By: JAL
File: DESIGN
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

CROSS SECTIONS



Sheet Number

X-1





717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

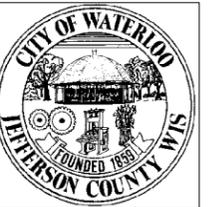
Revision Date

Project Name

South Monroe
Street CDBG
Flood Plain
Improvements



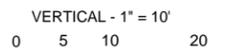
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com



City of Waterloo
Wisconsin

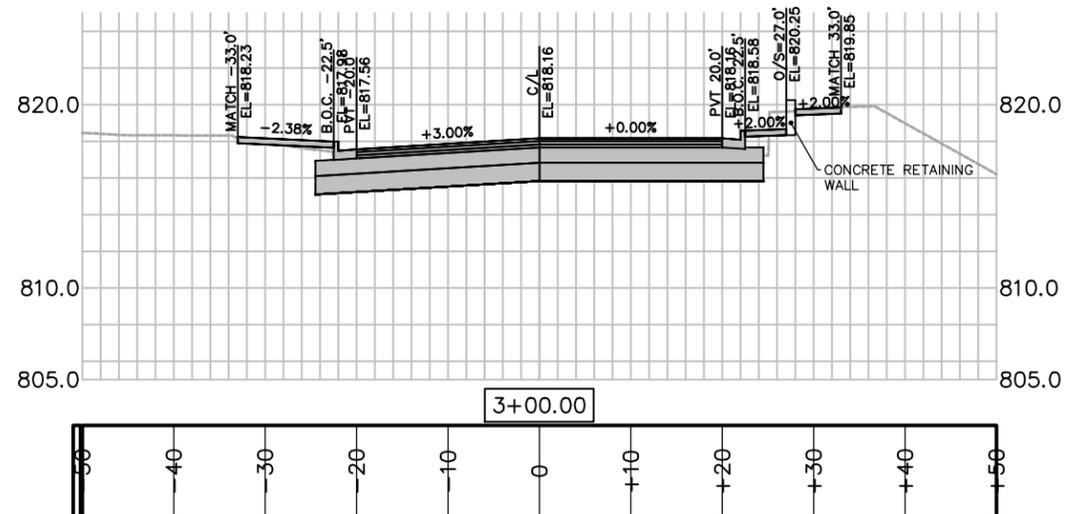
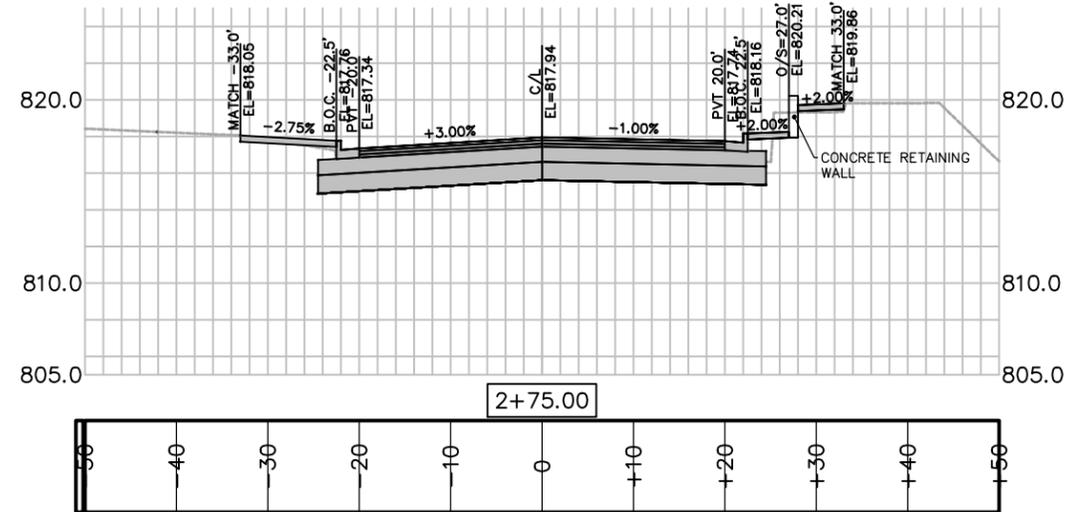
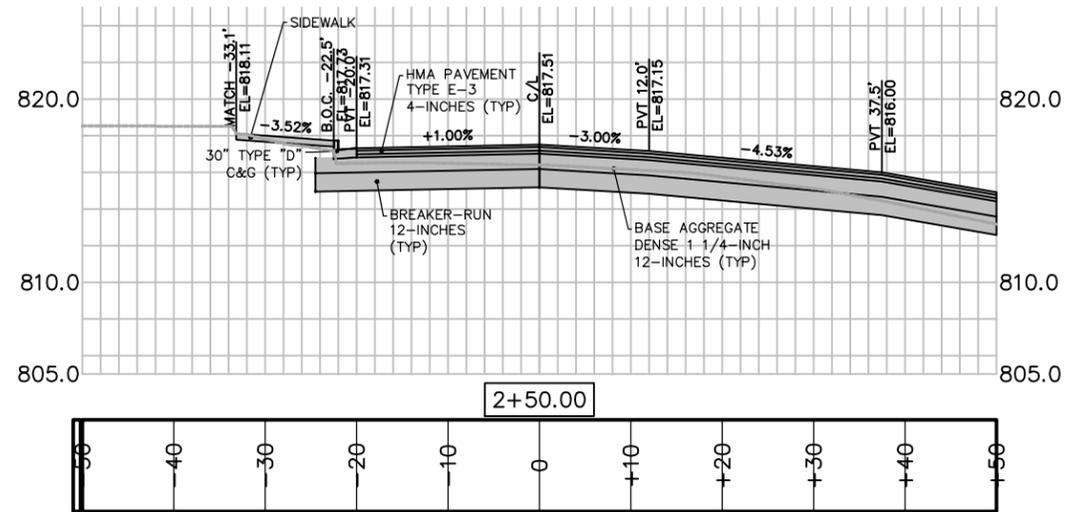
Drawn By: MAF
Checked By: JAL
File: DESIGN
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

OPTION
CROSS SECTIONS

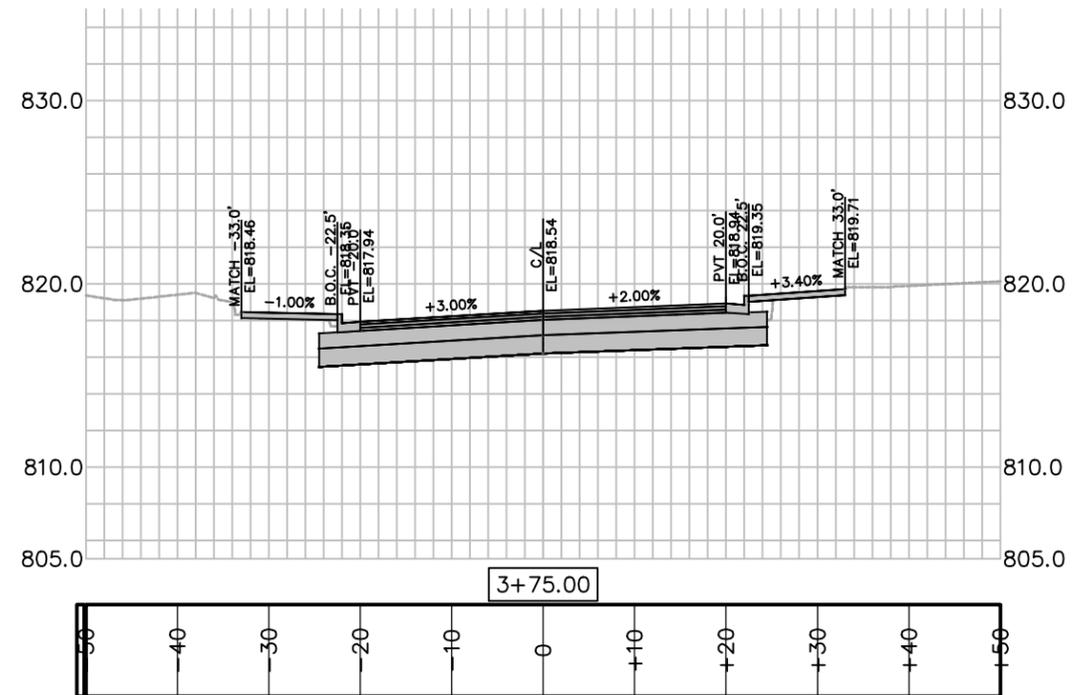
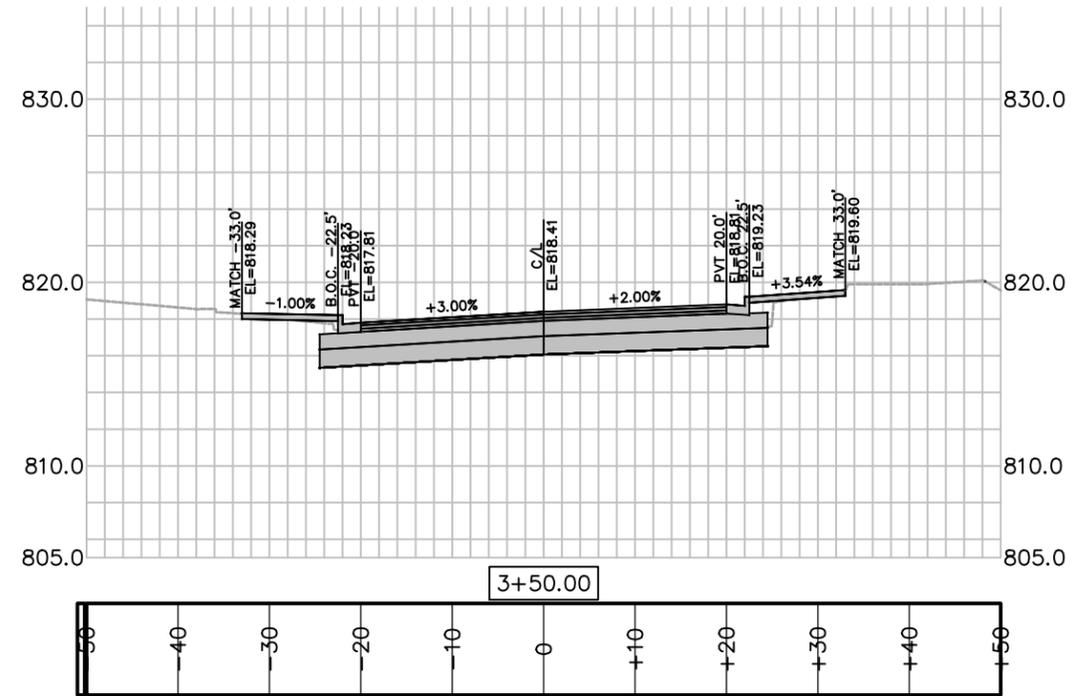
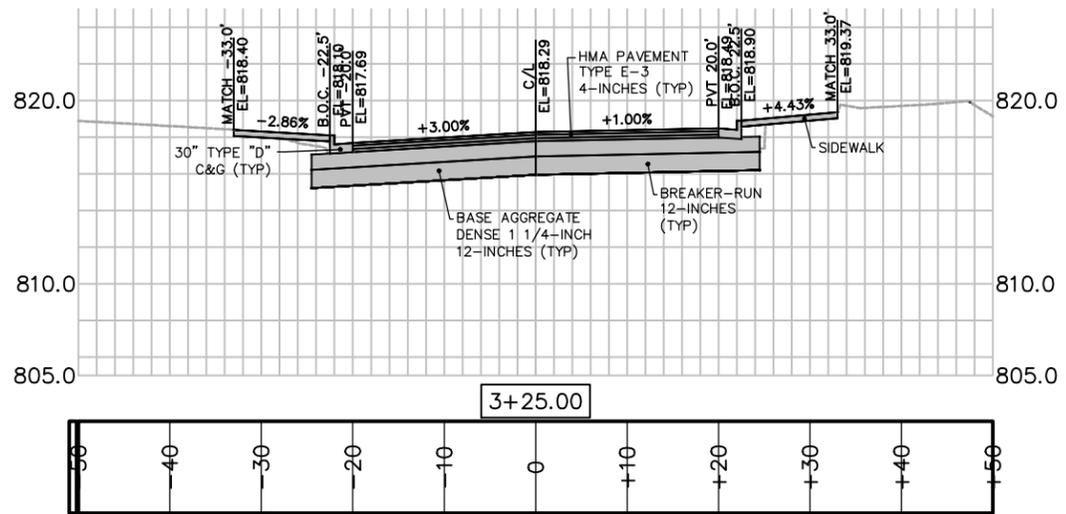


Sheet Number

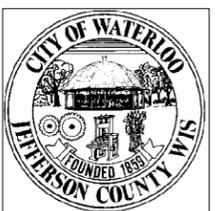
X-2



File: C:\Users\mfink\appdata\local\temp\AcPublish_1892\Design.dwg Layout: X3 User: mfink Plotted: Jan 10, 2012 - 12:37pm



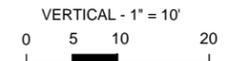
Toll Free (800) 242-8511
 Milwaukee Area (414) 259-1181
 Hearing Impaired TDD (800) 542-2289
 www.DiggersHotline.com



City of Waterloo
 Wisconsin

Drawn By: MAF
 Checked By: JAL
 File: DESIGN
 Issued For: BIDDING
 Issue Date: 1/6/2012
 Project No. 1955.16

CROSS SECTIONS



Sheet Number

X-3



717 John Nolen Drive
 Madison, WI 53713
 Ph: 608.255.0800
 Fx: 608.255.7750
 www.saa-madison.com

Professional Seal

Revision Date

Project Name

South Monroe
 Street CDBG
 Flood Plain
 Improvements



717 John Nolen Drive
Madison, WI 53713
Ph: 608.255.0800
F: 608.255.7750
www.saa-madison.com

Professional Seal

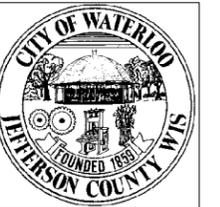
Revision Date

Project Name

South Monroe
Street CDBG
Flood Plain
Improvements



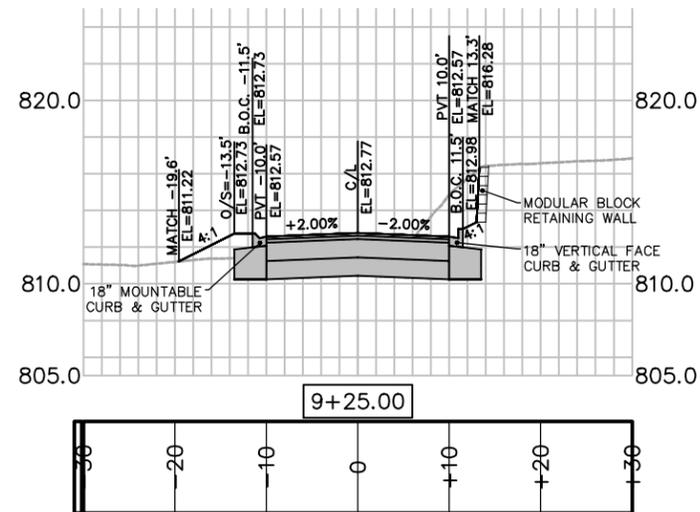
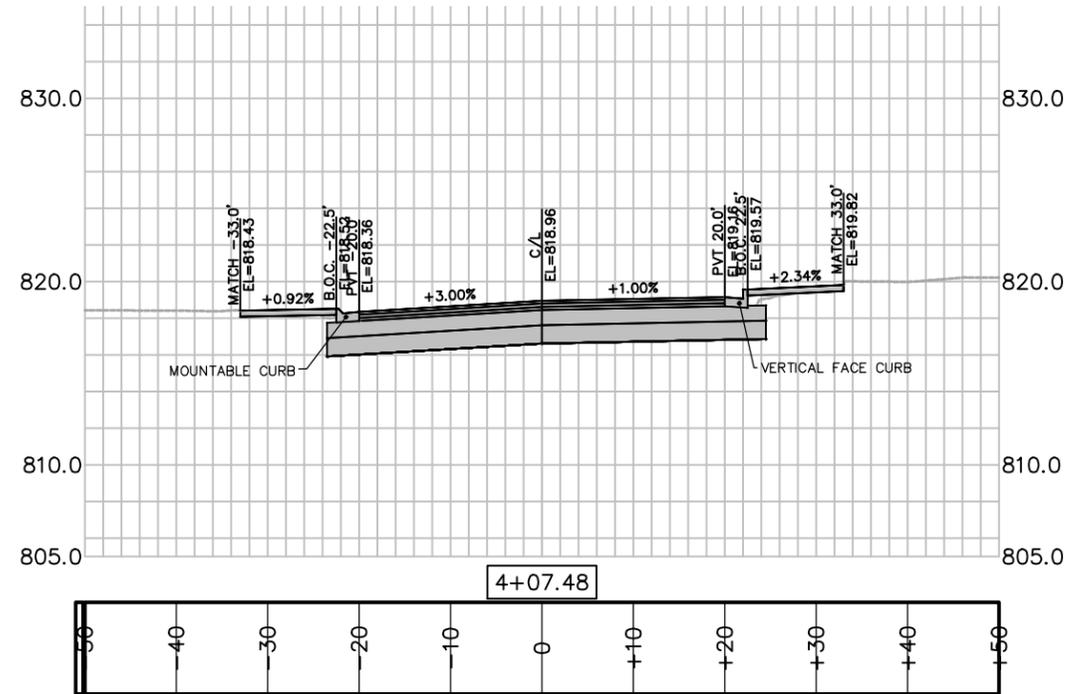
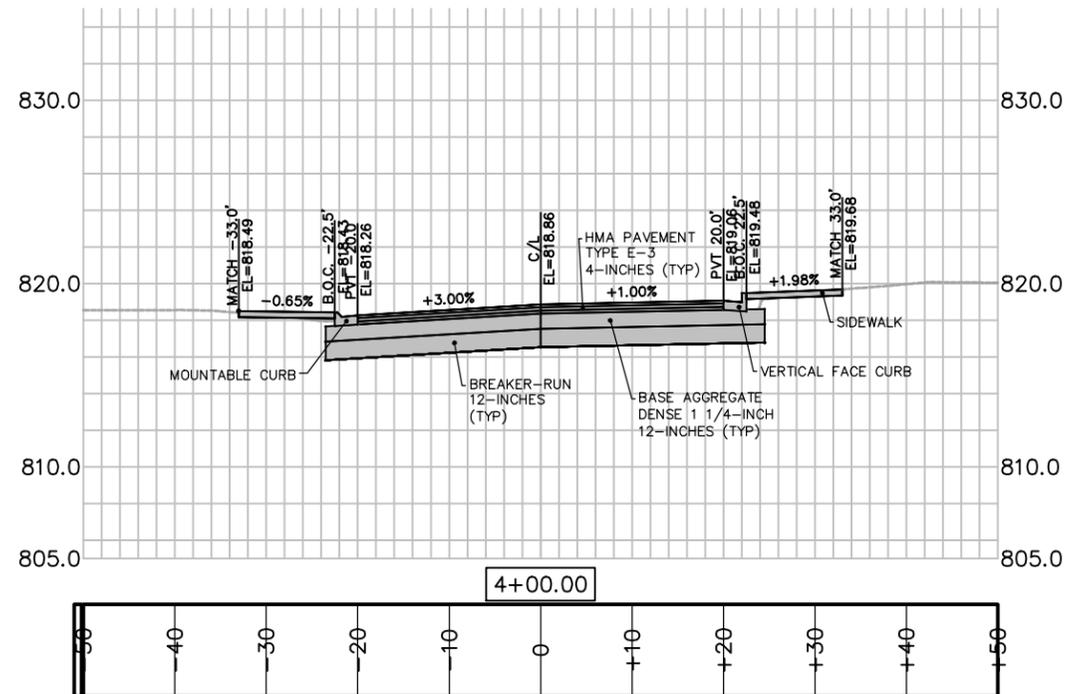
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com



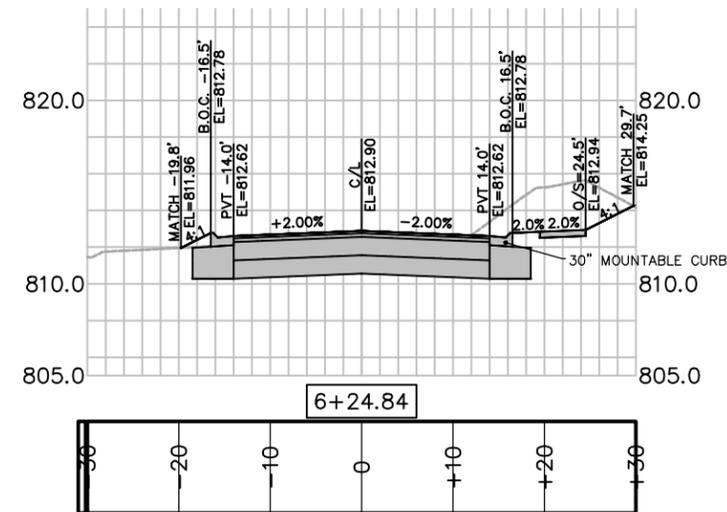
City of Waterloo
Wisconsin

Drawn By: MAF
Checked By: JAL
File: DESIGN
Issued For: BIDDING
Issue Date: 1/6/2012
Project No. 1955.16

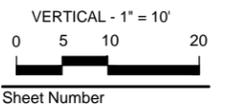
CROSS SECTIONS



MEAD STREET TYPICAL CROSS-SECTION



TAYLOR STREET TYPICAL CROSS-SECTION



X-4