

WKE

PROJECT ID: 1300-13-73

WITH: N/A

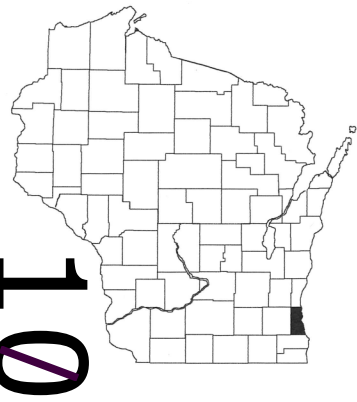
COUNTY: MILWAUKEE

NOV 2015

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Cross Sections

TOTAL SHEETS = 40



DESIGN DESIGNATION

A.A.D.T. (2015)	=	N/A
A.A.D.T. (2035)	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
REFERENCE LINE	
COMBUSTIBLE FLUIDS	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED LANDSCAPING

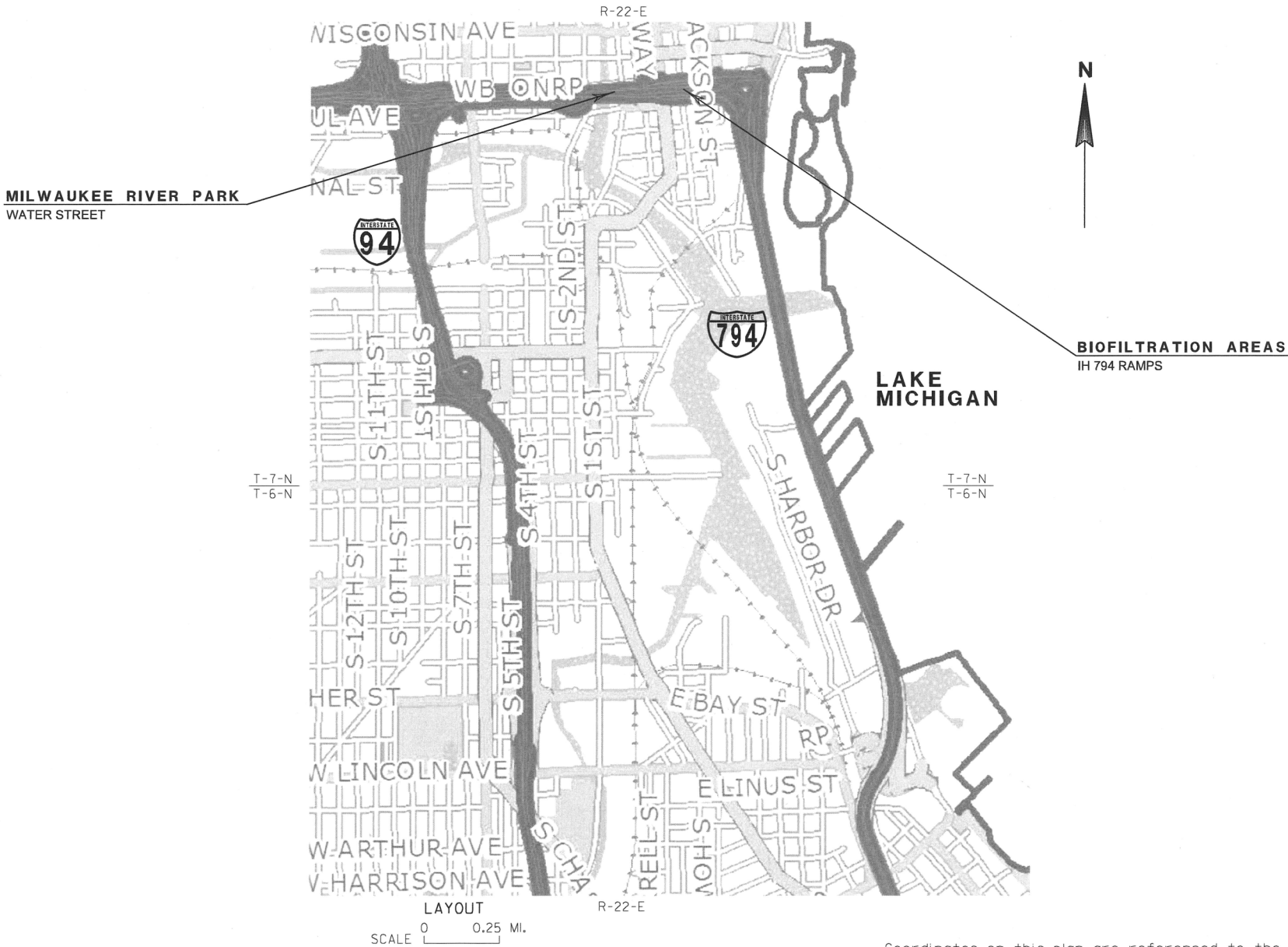
HOAN BRIDGE & LAKE FREEWAY

MILWAUKEE RIVER TO CARFERRY DR

IH 794

MILWAUKEE COUNTY

STATE PROJECT NUMBER
1300-13-73



ORIGINAL PLANS PREPARED BY

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5/1/15 (Date) Andrew Genz (Signature)

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DEPARTMENT OF TRANSPORTATION

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Regional Examiner	
Regional Supervisor	DEBRA EVERS, P.E.
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 5/1/15 (Signature)

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GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

CONTRACTOR SHALL CONTACT SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC) BEFORE DISTURBING ANY PUBLIC SURVEY MONUMENTS. CONTACT LEE KREBLIN AT (262) 547-6721 FOR MONUMENT RELOCATION PROCEDURES. CONTRACTOR SHALL ALSO CONTACT TOM LIPSKY AT WISDOT SOUTH EAST REGION AT (262) 548-6737.

THE LOCATION OF KNOWN EXISTING UTILITIES IN THE VICINITY OF THE PROJECT ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITIES IN THE AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.

EROSION CONTROL BMP'S WERE INSTALLED FOR THE CONSTRUCTION AREAS UNDER A SEPARATE PROJECT ID, AND ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE REMOVED ONCE PERMANENT VEGETATION IS ESTABLISHED AND APPROVED BY THE ENGINEER. PAYMENT OF REMOVAL OF PREVIOUSLY INSTALLED EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO CONSTRUCTION.

RE-TOPSOIL GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOPSOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED.

ALL OPENINGS BELOW SUBGRADE RESULTING FROM REMOVALS OR ABANDONMENTS SHALL BE FILLED WITH GRANULAR BACKFILL, UP TO THE LOWER OF EXISTING GROUND OR PROPOSED SUBGRADE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE COST OF GRANULAR BACKFILL SHALL BE INCIDENTAL TO THE REMOVAL OR ABANDONMENT ITEM.

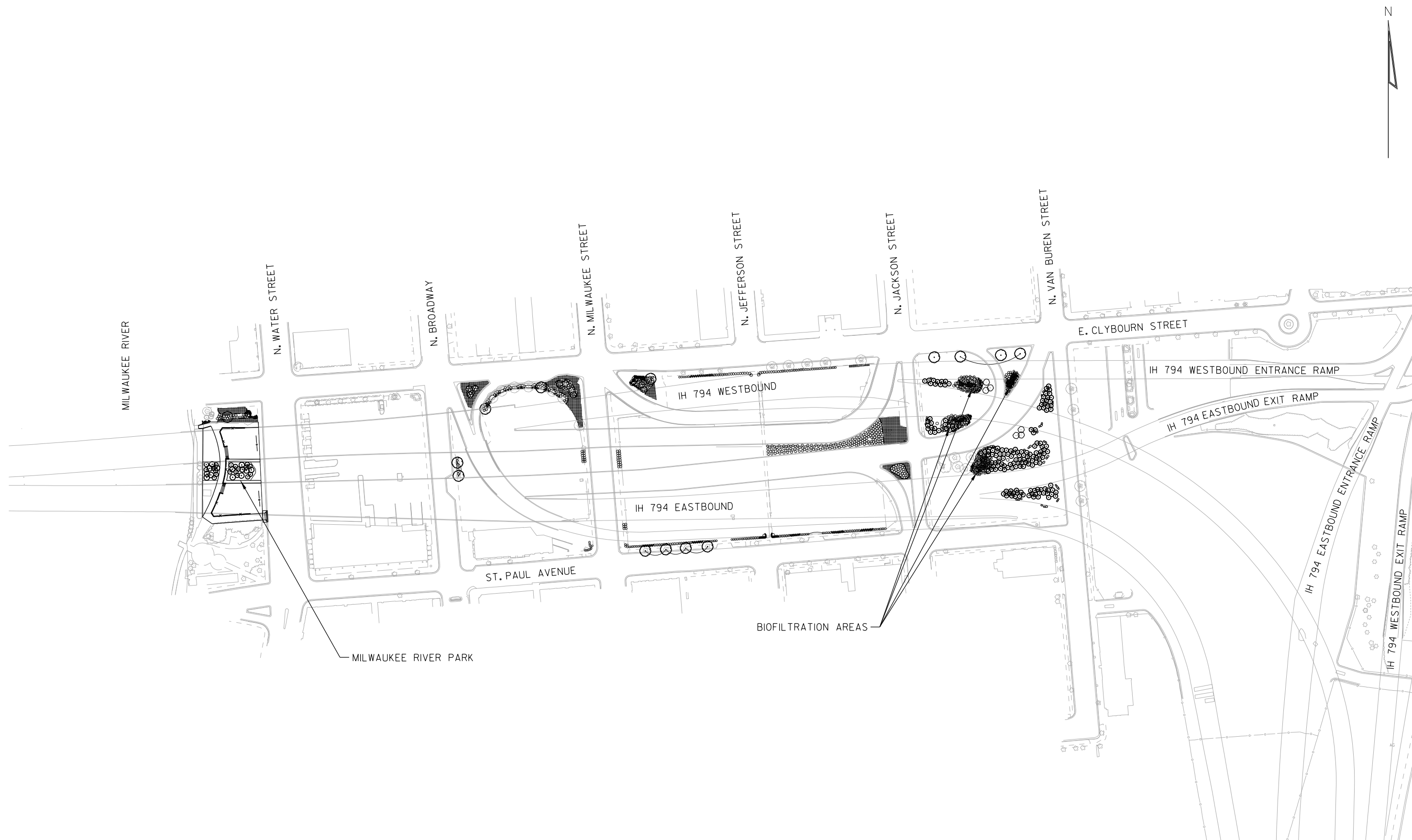
INLET PROTECTION SHALL BE INSTALLED ON ALL ADJACENT STORM SEWER STRUCTURES. EXACT LOCATIONS TO BE DEFINED BY THE ENGINEER IN THE FIELD.

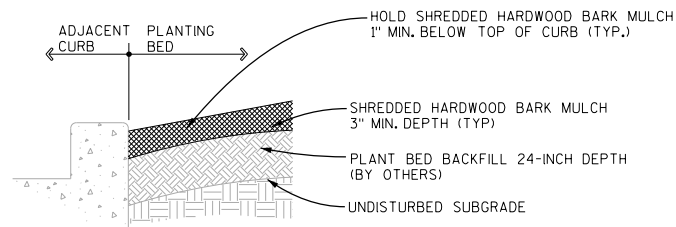
STANDARD ABBREVIATIONS

BM	BENCH MARK
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CATV	CABLE TELEVISION
D	DEGREE OF CURVE
DES.	DESIRABLE
D.S.	DESIGN SPEED
DS	DOWNSPOUT
EB	EASTBOUND
ELECT	ELECTRIC
ELEV	ELEVATION
EPS	EXTRUDED POLYSTYRENE
EXIST	EXISTING
HMA	HOT MIX ASPHALT
L	LENGTH OF CURVE
LT	LEFT
M/L	MATCHLINE
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
MIN.	MINIMUM
NB	NORTHBOUND
PC	POINT-OF-CURVE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PM	PAVEMENT MARKING
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS OF CURVE
RR	RAILROAD
R	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RT	RIGHT
RTRP	REINFORCED THERMOSETTING RESIN PIPE
S.E.	SUPER ELEVATION
S.R.	SPEED RATING
SAN	SANITARY SEWER
SB	SOUTHBOUND
SHLDR	SHOULDER
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
T	TANGENT LENGTH
TYP	TYPICAL
WB	WESTBOUND

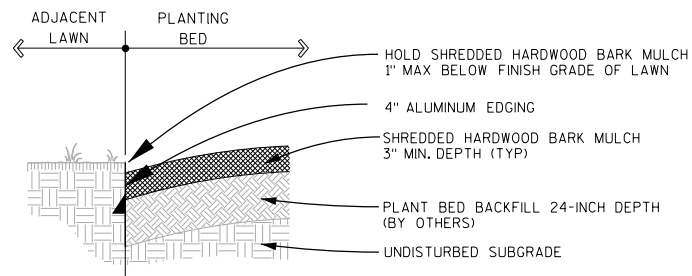
REFERENCE LINE CALLOUTS

LOCAL STREETS	
A	CLYBOURN STREET (MILWAUKEE RIVER TO WATER STREET)
B	WATER STREET
C	BROADWAY
E	MILWAUKEE STREET
F	CLYBOURN STREET (MILWAUKEE STREET TO VAN BUREN STREET)
H	ST PAUL AVENUE
I	VAN BUREN STREET
RAMPS	
D	BROADWAY EASTBOUND ENTRANCE
G	JACKSON STREET EASTBOUND EXIT





MULCH EDGE AT CURB



ALUMINUM EDGING

PLANTING NOTES

THE ACCEPTABLE TOLERANCES FOR THIS PROJECT ARE MINIMAL AND SPECIFIC LAYOUT IS REQUIRED AS SHOWN ON THE LAYOUT, PLANTING, AND OTHER PLANS. PLANTS SHALL BE SPACED AS PER DRAWINGS.

PLANT NAMES ARE ABBREVIATED ON THE DRAWINGS. SEE PLANT LEGEND FOR SYMBOLS, ABBREVIATIONS, BOTANICAL/COMMON NAMES, SIZES, ESTIMATED QUANTITIES (IF GIVEN) AND OTHER REMARKS.

CONTRACTOR TO PROVIDE 72" DIA. MULCH RINGS FOR ALL TREES PLANTED IN TURF AREAS.

THE CONTRACTOR SHALL FINE GRADE, RAKE AND BE RESPONSIBLE FOR POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND THROUGHOUT SITE, WITH ACCURATELY SET FLOW LINES. NO LOW SPOTS OR PONDING OF SURFACE WATER WILL BE ACCEPTED IN THE FINAL WORK. NO ROCKS OR DEBRIS WILL BE ACCEPTED. FINAL GRADE TOLERANCES ARE +/-0.1 FOOT MAXIMUM.

COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH INSTALLATION OF ALL ADJACENT PAVEMENTS, DRAINAGE CURB AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.

UNLESS OTHERWISE INDICATED ON DRAWINGS, EXISTING AREAS OF TURF LAWN ARE TO REMAIN UNDISTURBED. THE CONTRACTOR IS RESPONSIBLE TO "RESTORE" ALL AREAS OF THE SITE, OR ADJACENT AREAS, WHERE DISTURBED. TURF AREAS DISTURBED SHALL BE RESTORED WITH NEW SOD.

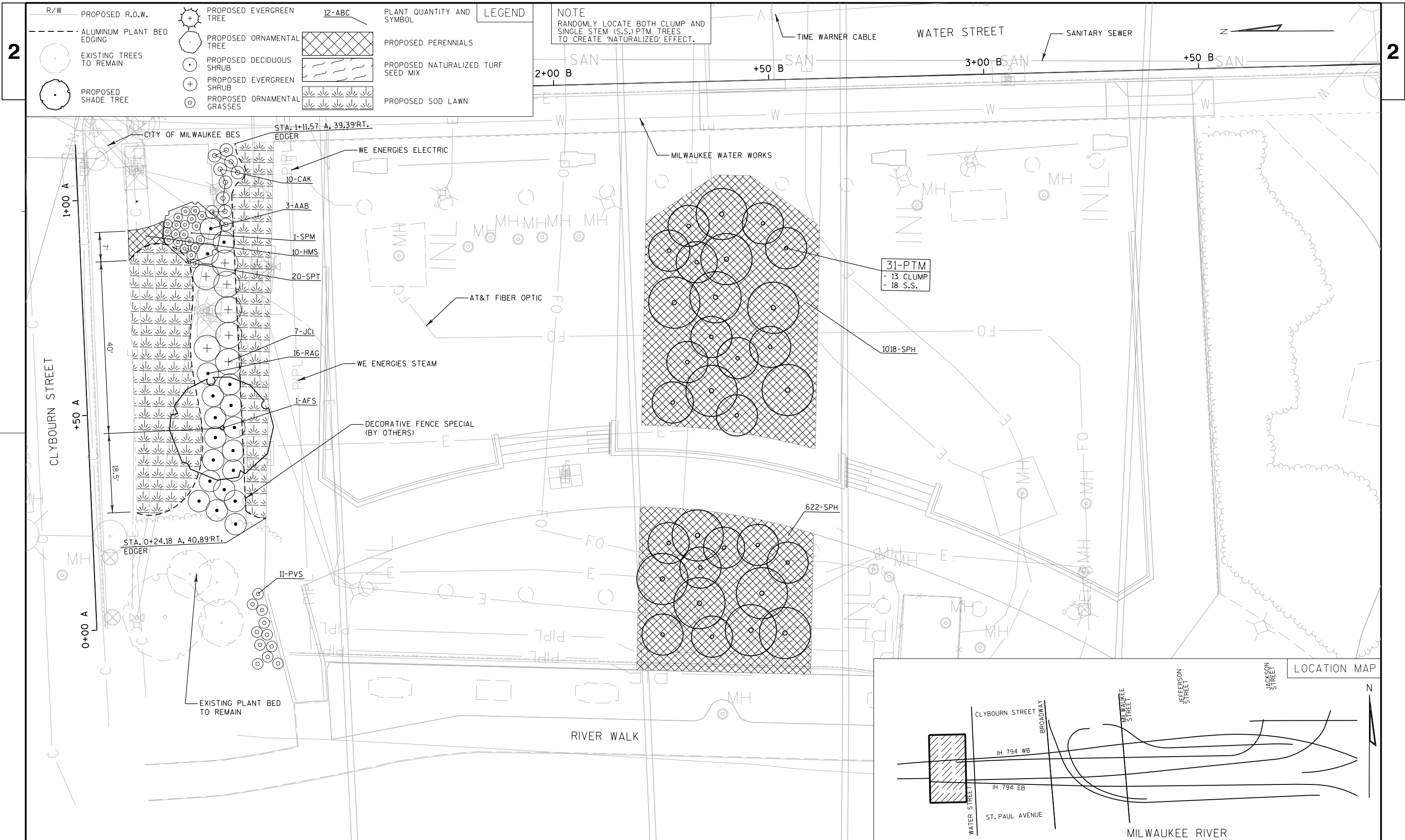
WHERE INDICATED ON DRAWINGS, ALL PLANT BEDS SHALL BE SEPARATED FROM ADJACENT LAWN AREAS WITH ALUMINUM EDGING PER DETAILS AND SPECIFICATIONS.

LANDSCAPE ACCENT/FLOOD LIGHTS ARE PROPOSED TO LIGHT SOME OF THE QUAKING ASPEN TREES PLANTED IN THE EAST OPEN SPACE AREA. LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATIONS OF THESE TREES FOR REFERENCE, AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY ELECTRICAL CONSTRUCTION.

ALL MANHOLES AND INLETS LOCATED WITHIN PLANT BED AREAS SHALL REMAIN UNCOVERED BY SOIL, MULCH, OR OTHER MATERIALS.

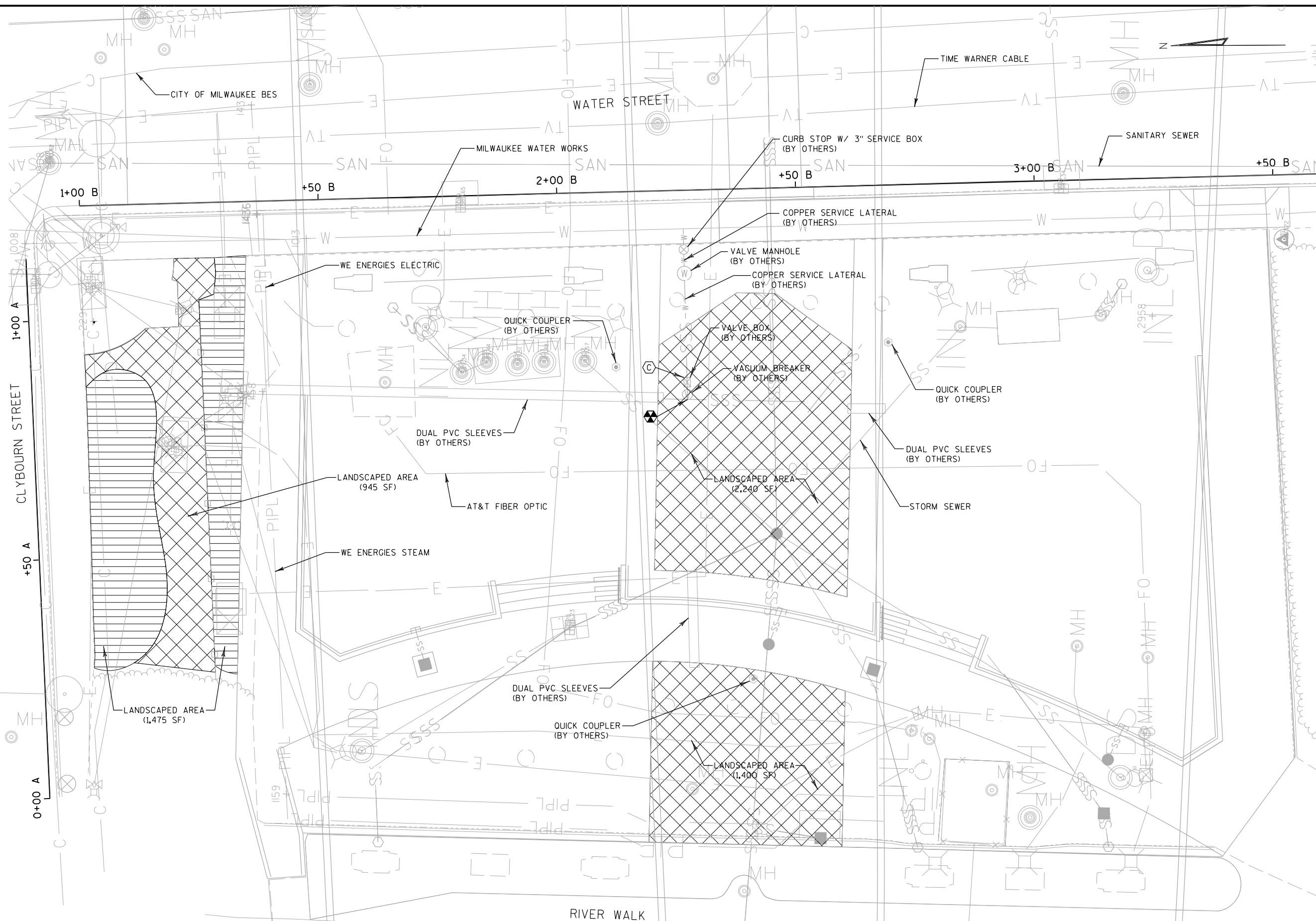
ALL PLANT BED AREAS, WHICH INCLUDE SHRUBS, PERENNIALS OR ORNAMENTAL GRASSES, SHALL RECEIVE SHREDDED HARDWOOD BARK MULCH 3-INCH DEPTH MINIMUM (TYP).

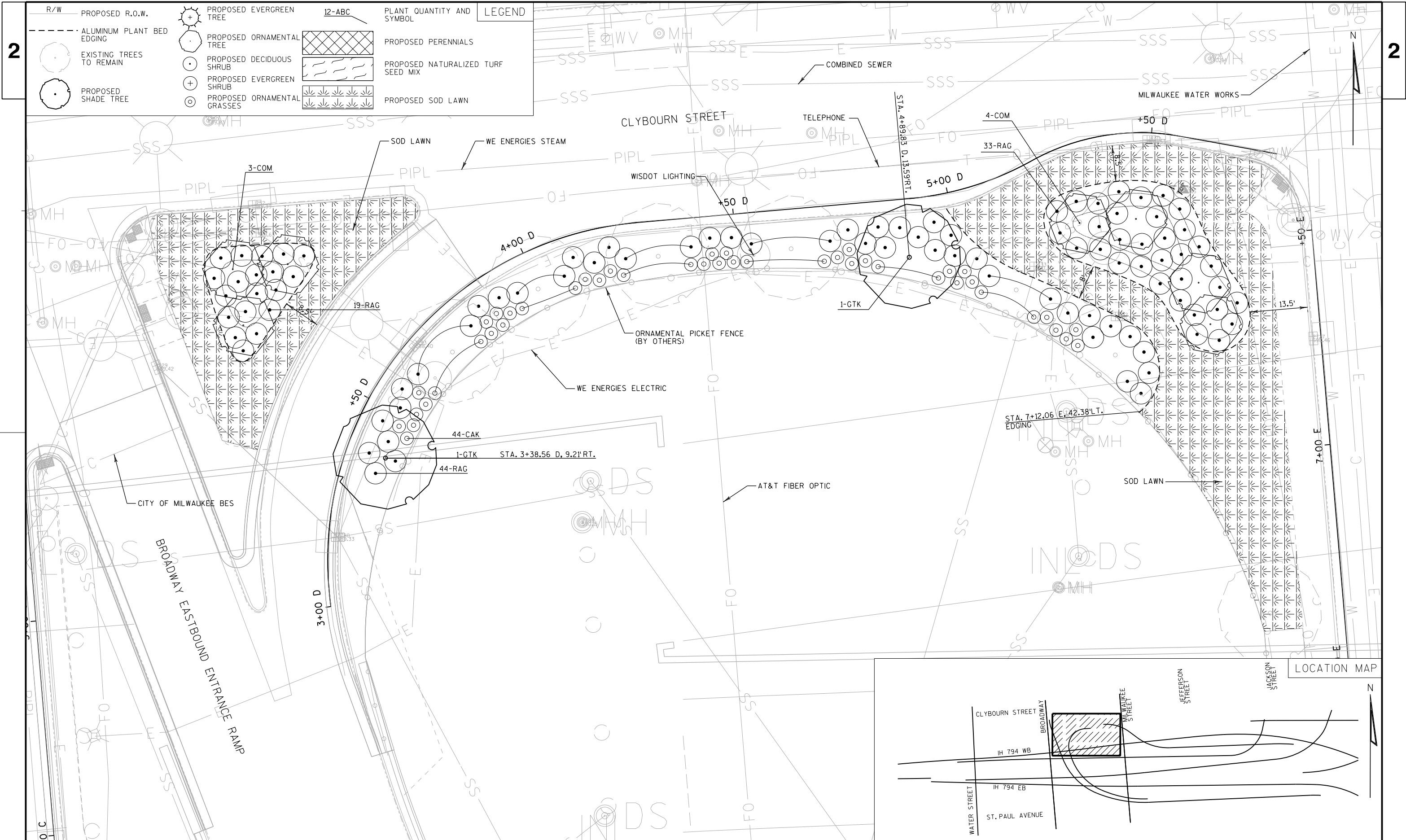
PLANT DATA CHART															
SYMBOL	COMMON NAME	SCIENTIFIC NAME	ANS TYPE	MATURE HEIGHT	SIZE WHEN PLANTED	ROOT CONDITION	MINIMUM SIZE				BRACE OR GUY	FERTILIZER UNITS REQ'D	RODENT PROTECTION REQ'D	MULCH RING DIAM.	SPACING
							BALL/POT DIAM.	ROOT DEPTH	PLANT DIAM.	HOLE DEPTH					
LARGE DECIDUOUS TREES															
GTK	HONEYLOCUST, SKYLINE	GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE'	1T	45'	2.5" CAL	B&B	28"	16"	52"	16"	NO	4	NO	72"*	AS SHOWN
AFS	MAPLE, SIENNA GLEN	ACER X FREEMANII 'SIENNA'	1T	60'	2.5" CAL	B&B	28"	16"	52"	16"	NO	4	NO	72"*	AS SHOWN
AMM	MAPLE, STATE STREET MIYABEI	ACER MIYABEI 'MORTON'	1T	40'	2.5" CAL	B&B	28"	16"	52"	16"	NO	4	NO	72"*	AS SHOWN
QBC	OAK, SWAMP WHITE	QUERCUS BICOLOR	1T	50'	2.0" CAL	B&B	28"	16"	52"	16"	NO	4	NO	72"*	AS SHOWN
SMALL DECIDUOUS TREES															
COM	DOGWOOD, GOLDEN GLORY CORNELIANCHERRY	CORNUS MAS 'GOLDEN GLORY'	3T	20'-25'	6' MULTI-STEM	B&B	24"	14"	48"	14"	NO	3	NO	72"*	AS SHOWN
CPP	HAWTHORN, WASHINGTON	CRATAEGUS PHAENOPYRUM	3T	30'	10' -12' CLUMP	B&B	24"	14"	48"	14"	NO	3	NO	72"*	AS SHOWN
PTM	QUAKING ASPEN	POPULUS TREMULOIDES	3T	60'-80'	SINGLE STEM	B&B	24"	14"	48"	14"	NO	3	NO	72"*	AS SHOWN
PTM	QUAKING ASPEN	POPULUS TREMULOIDES	3T	60'-80'	10' -12' CLUMP	B&B	24"	14"	48"	14"	NO	3	NO	72"*	AS SHOWN
SPM	LILAC, CHINA SNOW PEKING	SYRINGA PEKINENSIS 'MORTON'	3T	25'	8' -10' HT	B&B	24"	14"	48"	14"	NO	3	NO	72"*	AS SHOWN
DECIDUOUS SHRUBS															
AAB	CHOKEBERRY, BRILLIANT RED	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA'	3S	6'-8'	36" HT	B&B	14"	9"	36"	9"	NO	2	NO	NONE	5'
AMI	CHOKEBERRY, BLACK-IROQUOIS BEAUTY	ARONIA MELANOCARPA 'MORTAN'	3S	2'-3'	24" HT	CG	14"	9"	36"	9"	NO	2	NO	NONE	5'
CSA	DOGWOOD, ARCTIC FIRE	CORNUS STOLONIFERA 'ARCTIC FIRE'	3S	3'-4'	24" HT	CG	14"	9"	36"	9"	NO	2	NO	NONE	4'
EAC	BURNING BUSH, DWARF	EUONYMUS ALATA 'COMPACTUS'	3S	6'-8'	48" HT	B&B	14"	9"	36"	9"	NO	2	NO	NONE	6'
RAG	SUMAC, GRO LOW	RHUS AROMATICA 'GRO LO'	3S	2'	24" SPREAD	CG	14"	9"	36"	9"	NO	2	NO	NONE	5'
RAP	ALPINE CURRANT, GREEN MOUND	RIBES ALPINUM 'GREEN MOUND'	3S	3'-5'	18" HT	CG	14"	9"	36"	9"	NO	2	NO	NONE	4'
RRD	RUGOSA ROSE, DWARF PAVEMENT	ROSA RUGOSA 'DWARD PAVEMENT'	3S	2'-3'	18" HT	CG	14"	9"	36"	9"	NO	2	NO	NONE	4'
VDR	VIBURNUM, AUTUMN JAZZ	VIBURNUM DENTATUM 'RALPH SENIOR'	3S	10'	48" HT	B&B	14"	9"	36"	9"	NO	2	NO	NONE	6'
EVERGREEN SHRUBS															
JCI	JUNIPER, IOWA	JUNIPERUS CHINENSIS 'IOWA'	3S	10'-15'	60" HT	B&B	14"	9"	36"	9"	NO	2	NO	NONE	5'
TMT	YEW, TAUNTON SPREADING	TAXUS X MEDIA 'TAUNTONII'	3S	3'-4'	30" HT	B&B	14"	9"	36"	9"	NO	2	NO	NONE	5'
PERENNIALS															
HMS	DAYLILY, STRAWBERRY CANDY	HEMEROCALLIS 'STRAWBERRY CANDY'	1S	26"	1 GAL.	CG	8"	8"	18"	8"	NO	1	NO	NONE	24"
ORNAMENTAL GRASSES															
CAK	GRASS, FEATHER REED	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	1S	5'	1 GAL.	CG	8"	8"	18"	8"	NO	1	NO	NONE	36"
PVN	SWITCH GRASS, NORTHWIND	PANICUM VIRGATUM 'NORTHWIND'	1S	6'	1 GAL.	CG	8"	8"	18"	8"	NO	1	NO	NONE	36"
PVS	SWITCH GRASS, SHENANDOAH	PANICUM VIRGATUM 'SHENADOAH'	1S	3'	1 GAL.	CG	8"	8"	18"	8"	NO	1	NO	NONE	30"
SPT	PRAIRIE DROPSEED, TARA DWARF	SPOROBOLUS HETEROLEPSIS 'TARA'	1S	18"	1 GAL.	CG	8"	8"	18"	8"	NO	1	NO	NONE	24"
SPH	PRAIRIE DROPSEED,	SPOROBOLUS HETEROLEPSIS	1S	30"	4" POT	CG	8"	8"	18"	8"	NO	1	NO	NONE	18"
SCB	LITTLE BLUESTEM, THE BLUES	SCHIZACHYRIUM SCOPARIUM 'THE BLUES'	1S	18"	1 GAL.	CG	8"	8"	18"	8"	NO	1	NO	NONE	24"
B&B: BALLED AND BURLAPED CG: CONTAINER GROWN HT: HEIGHT BR: BARE ROOT * MULCH RING ONLY APPLICABLE IF PLANTED OUTSIDE OF A PLANTING BED															



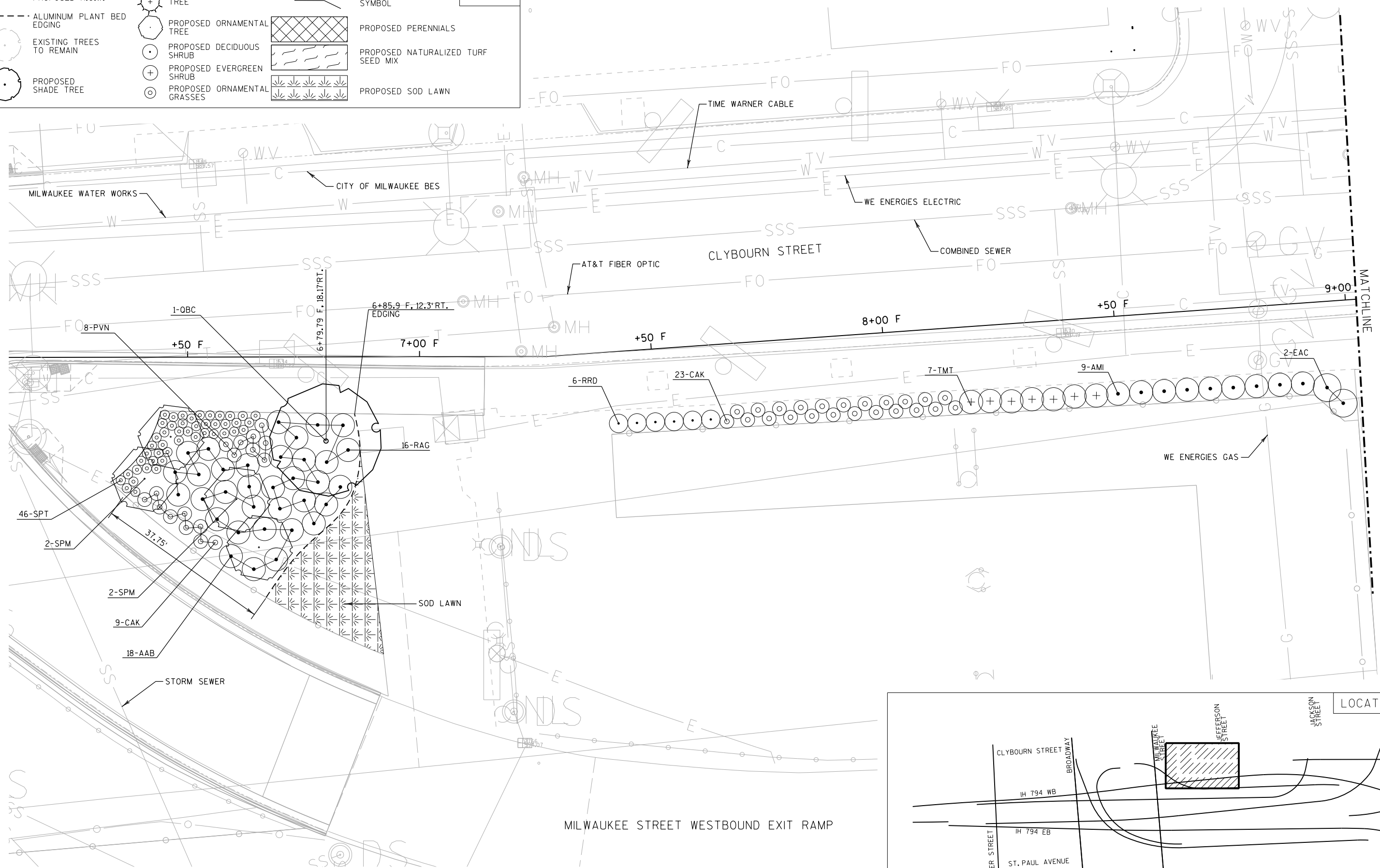
	POINT OF CONNECTION
	IRRIGATION SYSTEM CONTROLLER
	SPRAY IRRIGATION (LAWN AREA)
	SPRAY IRRIGATION (PLANT BED AREA)

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL HAVE PREPARED AND RECEIVED APPROVAL OF IRRIGATION DESIGN, BY LANDSCAPE ARCHITECT. DURING CONSTRUCTION VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
2. COORDINATE ALL LIVE TAP CONNECTIONS, WITH CITY OF MILWAUKEE PRIOR TO CONSTRUCTION.
3. TRACER WIRE SHALL BE INSTALLED ON ALL UNDERGROUND IRRIGATION PIPING.

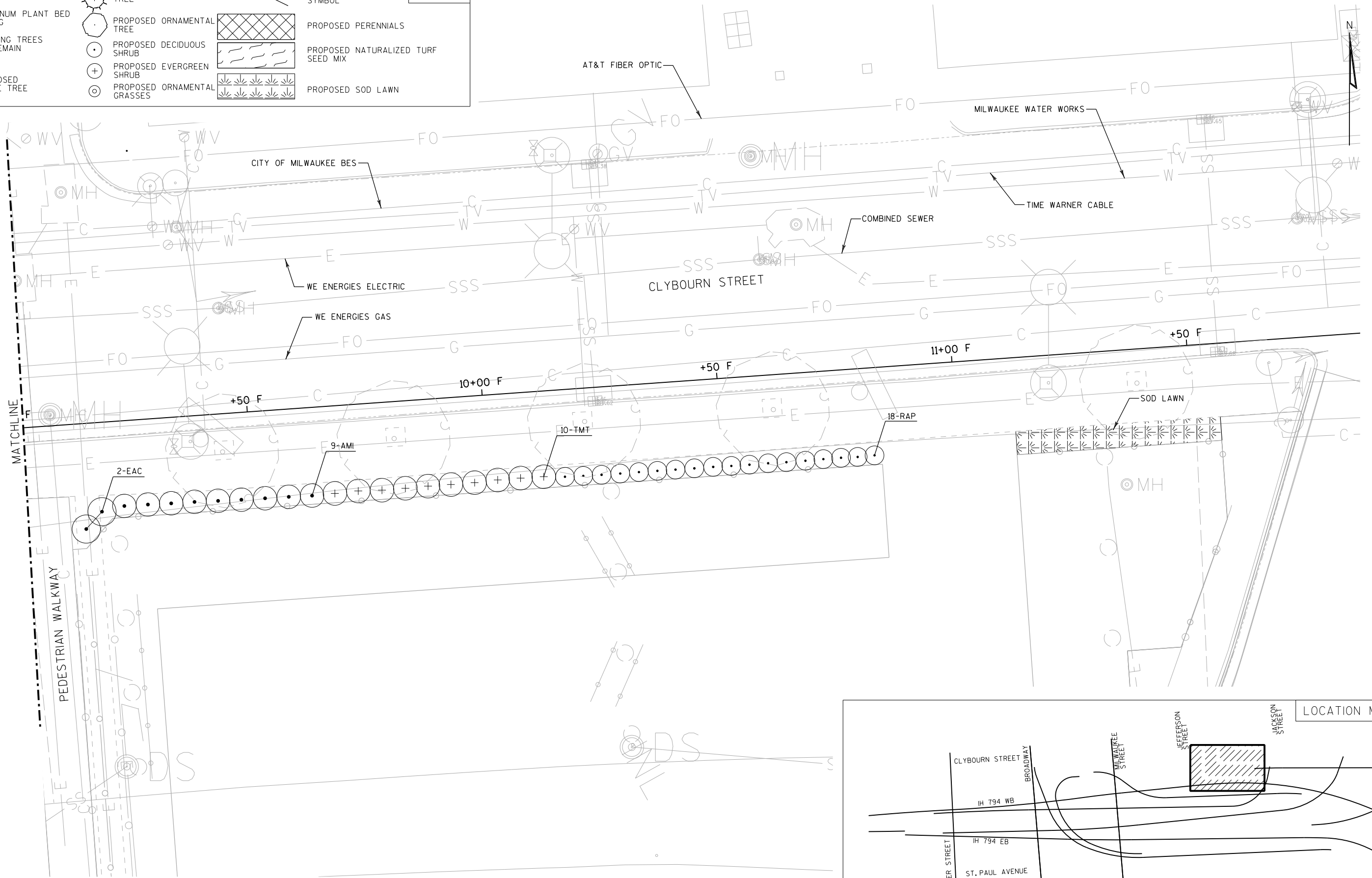




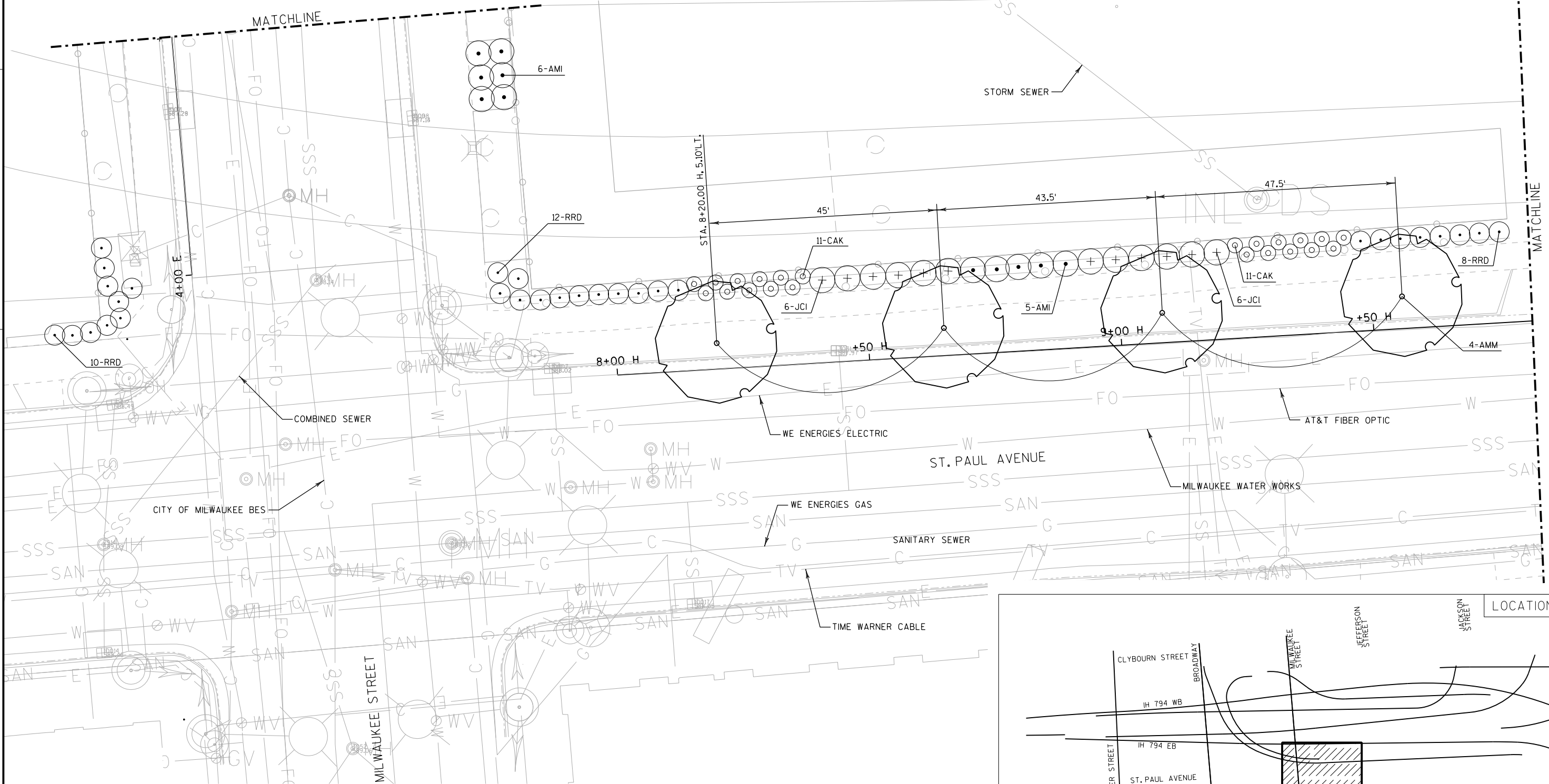
R/W	PROPOSED R.O.W.		PROPOSED EVERGREEN TREE	12-ABC	PLANT QUANTITY AND SYMBOL
	ALUMINUM PLANT BED EDGING		PROPOSED ORNAMENTAL TREE		PROPOSED PERENNIALS
	EXISTING TREES TO REMAIN		PROPOSED DECIDUOUS SHRUB		PROPOSED NATURALIZED TURF SEED MIX
	PROPOSED SHADE TREE		PROPOSED EVERGREEN SHRUB		PROPOSED SOD LAWN
			PROPOSED ORNAMENTAL GRASSES		



R/W	PROPOSED R.O.W.		PROPOSED EVERGREEN TREE	12-ABC	PLANT QUANTITY AND SYMBOL	LEGEND
	ALUMINUM PLANT BED EDGING		PROPOSED ORNAMENTAL TREE		PROPOSED PERENNIALS	
	EXISTING TREES TO REMAIN		PROPOSED DECIDUOUS SHRUB		PROPOSED NATURALIZED TURF SEED MIX	
	PROPOSED SHADE TREE		PROPOSED EVERGREEN SHRUB		PROPOSED SOD LAWN	
			PROPOSED ORNAMENTAL GRASSES			



R/W	PROPOSED R.O.W.		PROPOSED EVERGREEN TREE	12-ABC	PLANT QUANTITY AND SYMBOL	LEGEND
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	PROPOSED SHADE TREE		PROPOSED EVERGREEN SHRUB		PROPOSED SOD LAWN	
			PROPOSED ORNAMENTAL GRASSES			



R/W

PROPOSED R.O.W.

ALUMINUM PLANT BED EDGING

EXISTING TREES TO REMAIN

PROPOSED SHADE TREE

PROPOSED EVERGREEN TREE

PROPOSED ORNAMENTAL TREE

PROPOSED DECIDUOUS SHRUB

PROPOSED EVERGREEN SHRUB

PROPOSED ORNAMENTAL GRASSES

12-ABC

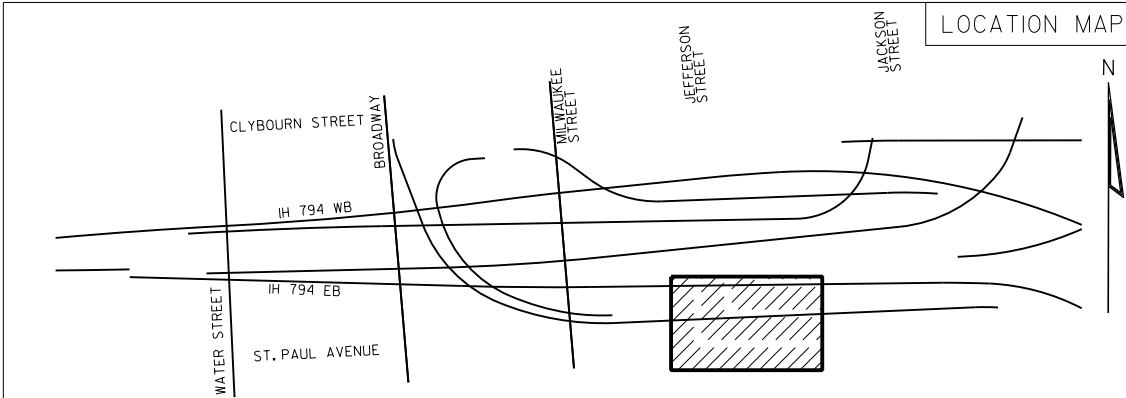
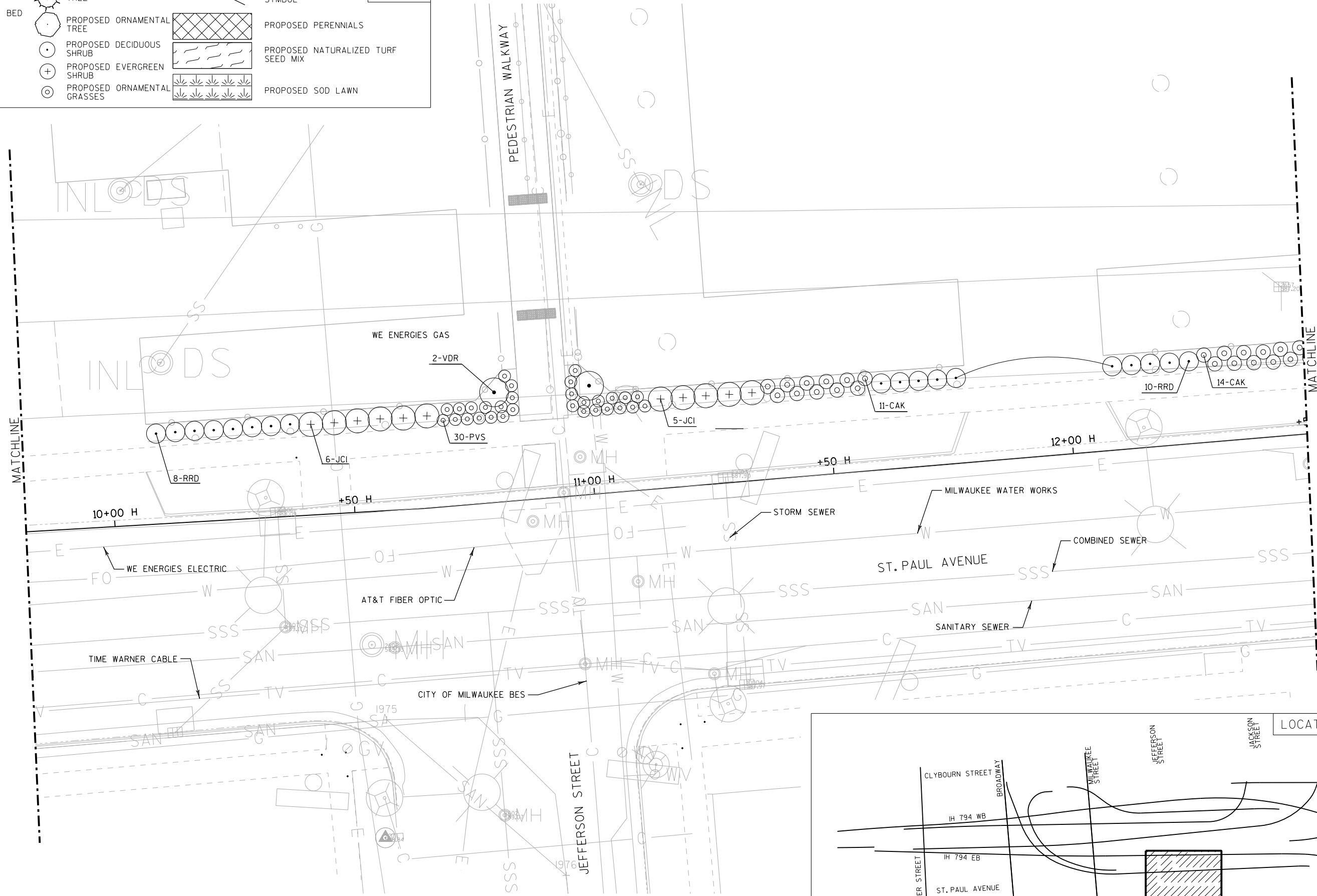
PROPOSED PERENNIALS

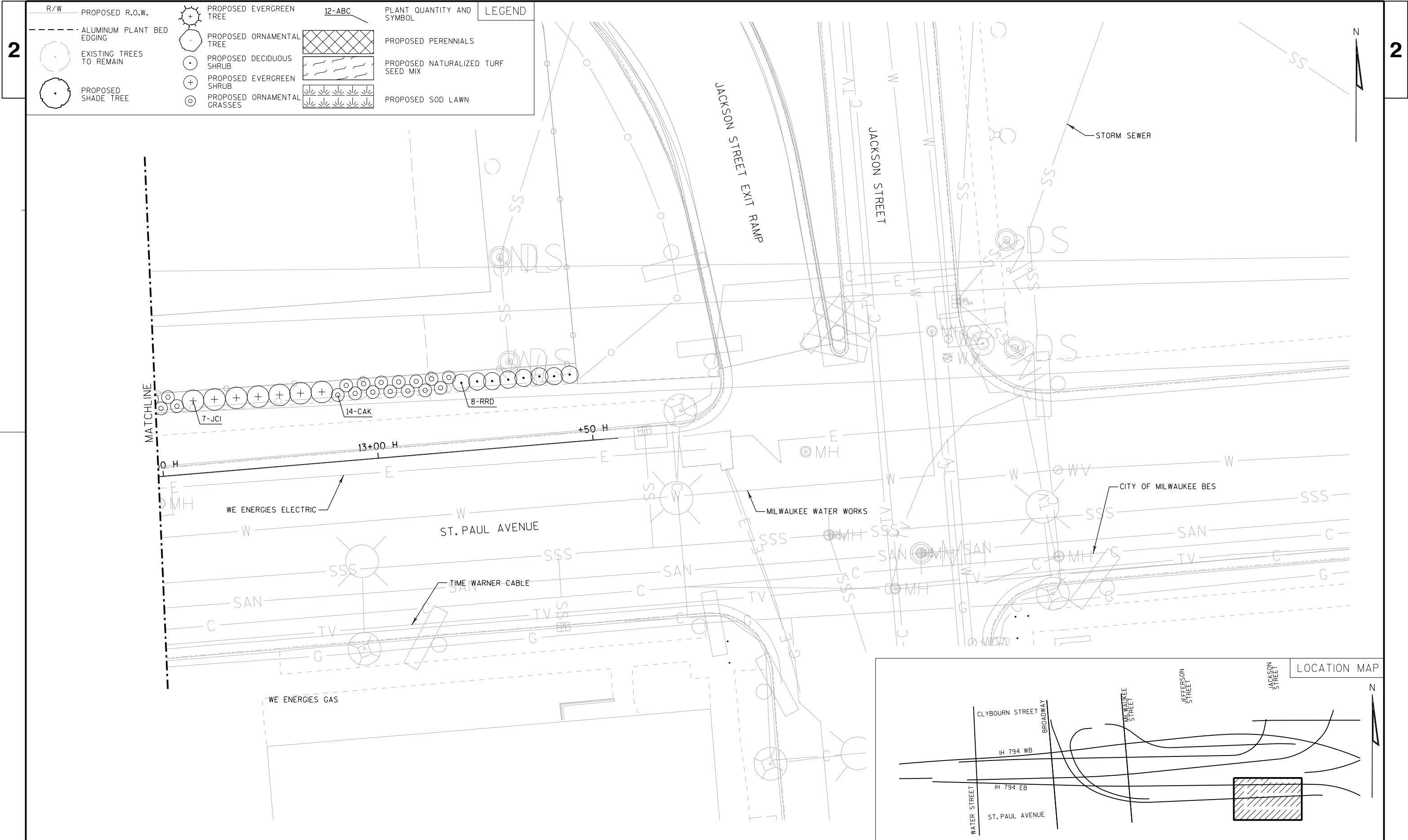
PROPOSED NATURALIZED TURF SEED MIX

PROPOSED SOD LAWN

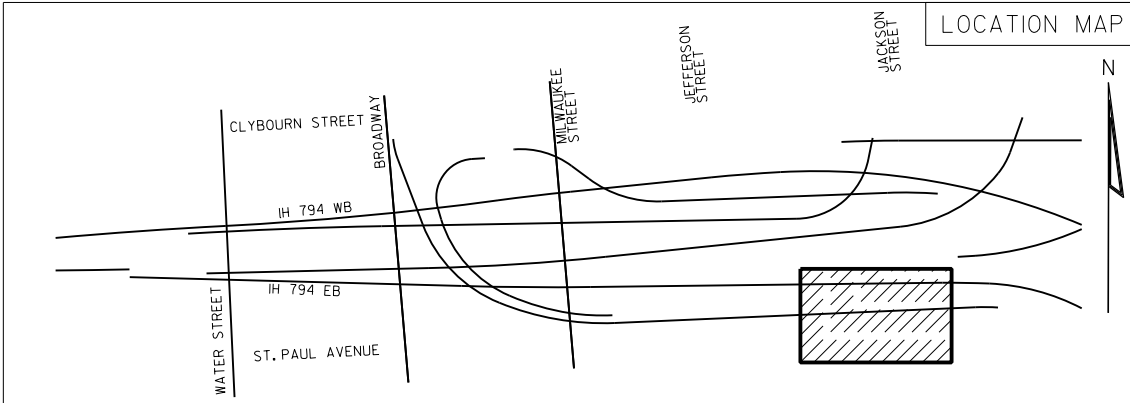
PLANT QUANTITY AND SYMBOL

LEGEND

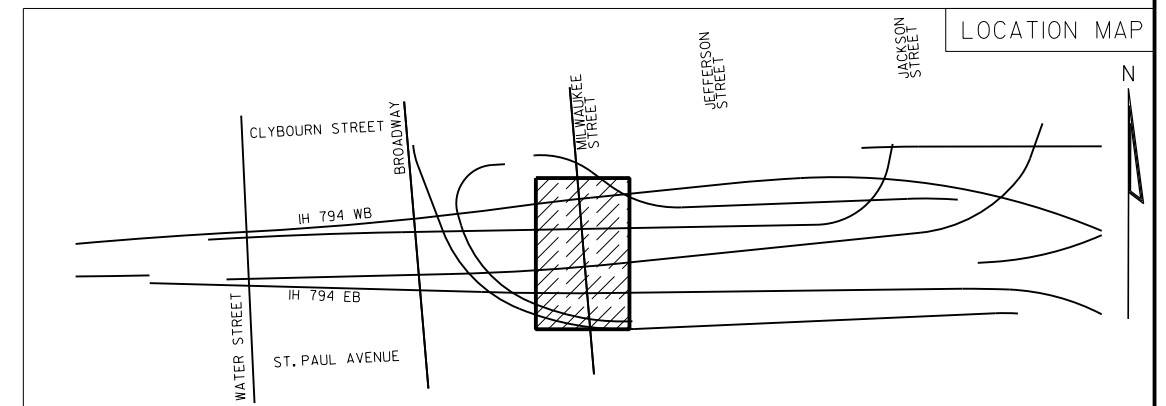
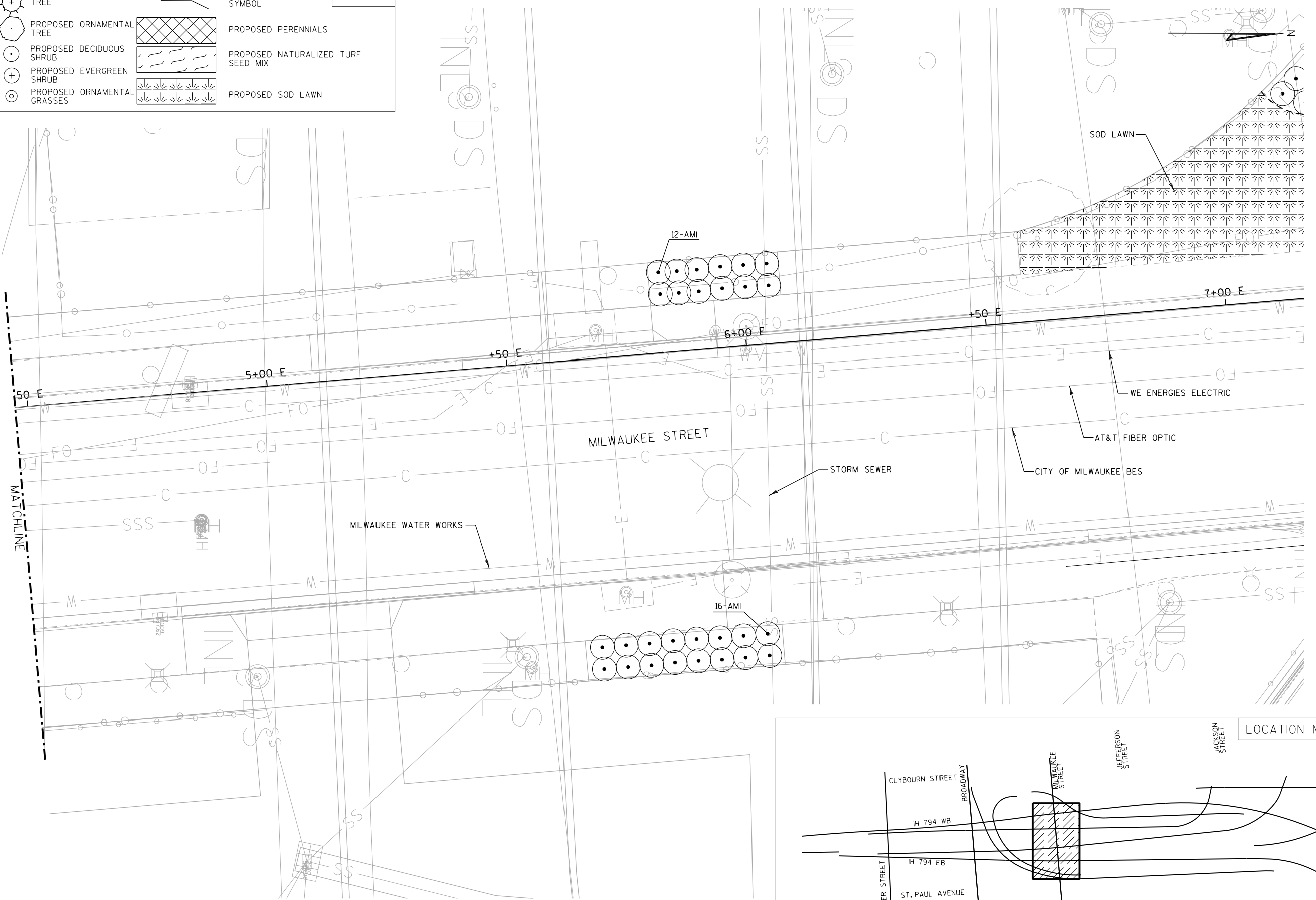




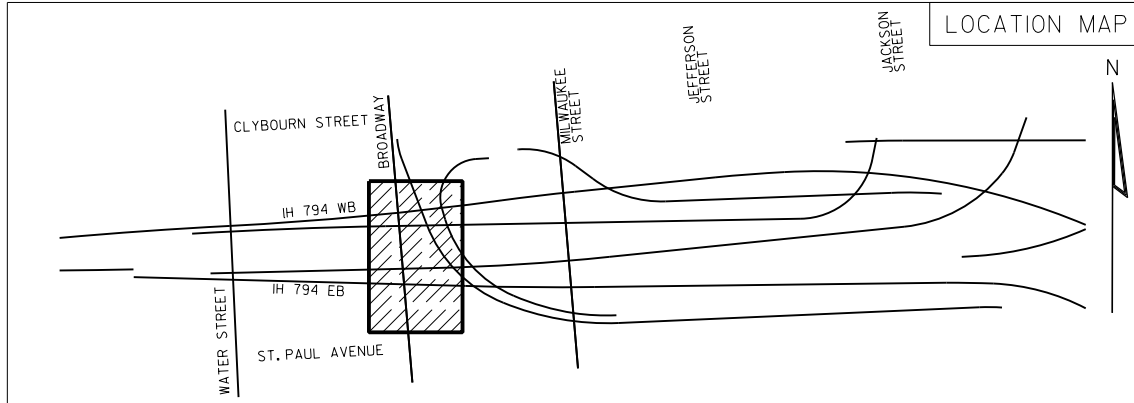
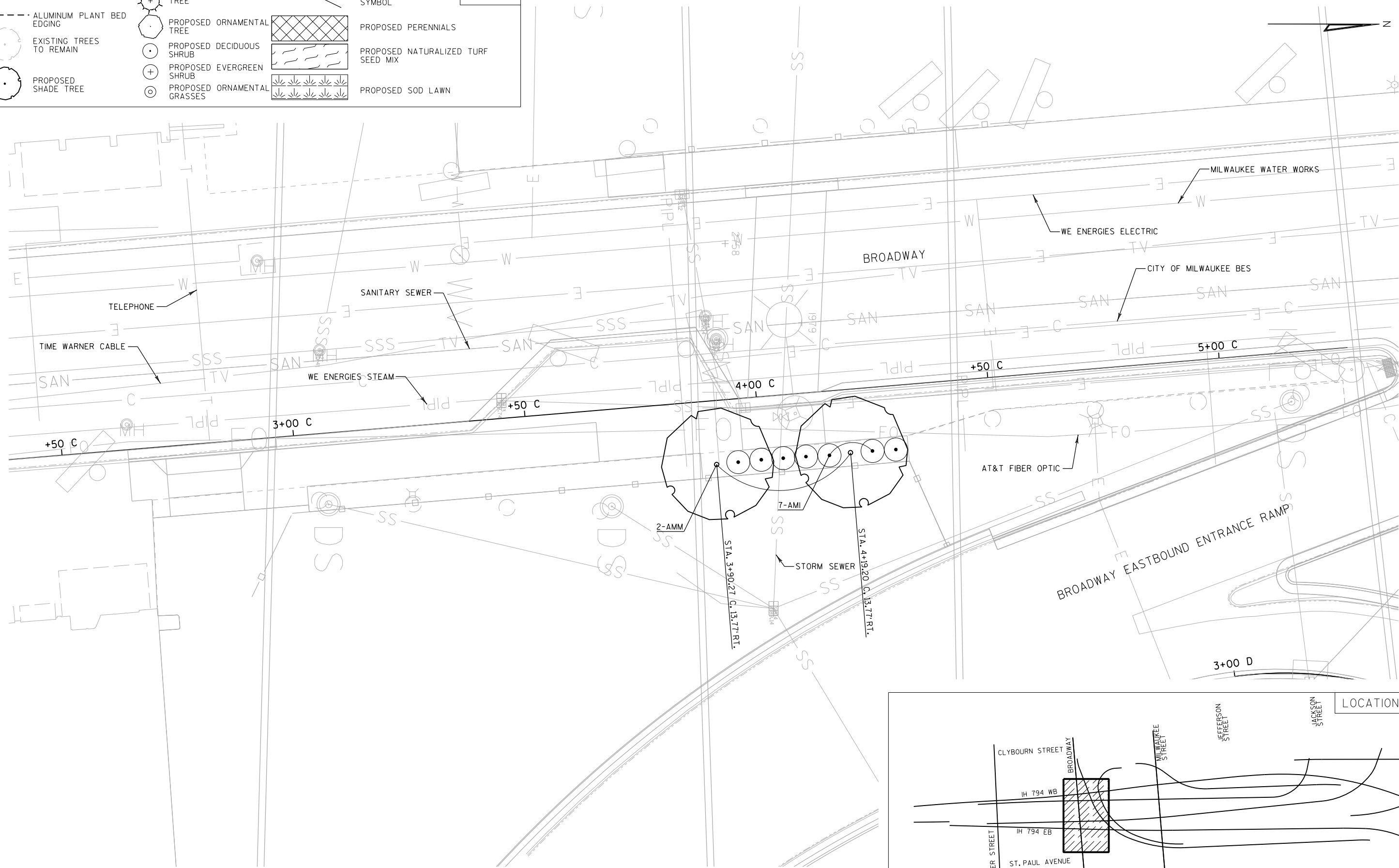
R/W		PLANT QUANTITY AND SYMBOL	
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ALUMINUM PLANT BED EDGING	PROPOSED ORNAMENTAL TREE		PROPOSED NATURALIZED TURF SEED MIX
EXISTING TREES TO REMAIN	PROPOSED DECIDUOUS SHRUB		PROPOSED SOD LAWN
PROPOSED SHADE TREE	PROPOSED EVERGREEN SHRUB		
	PROPOSED ORNAMENTAL GRASSES		

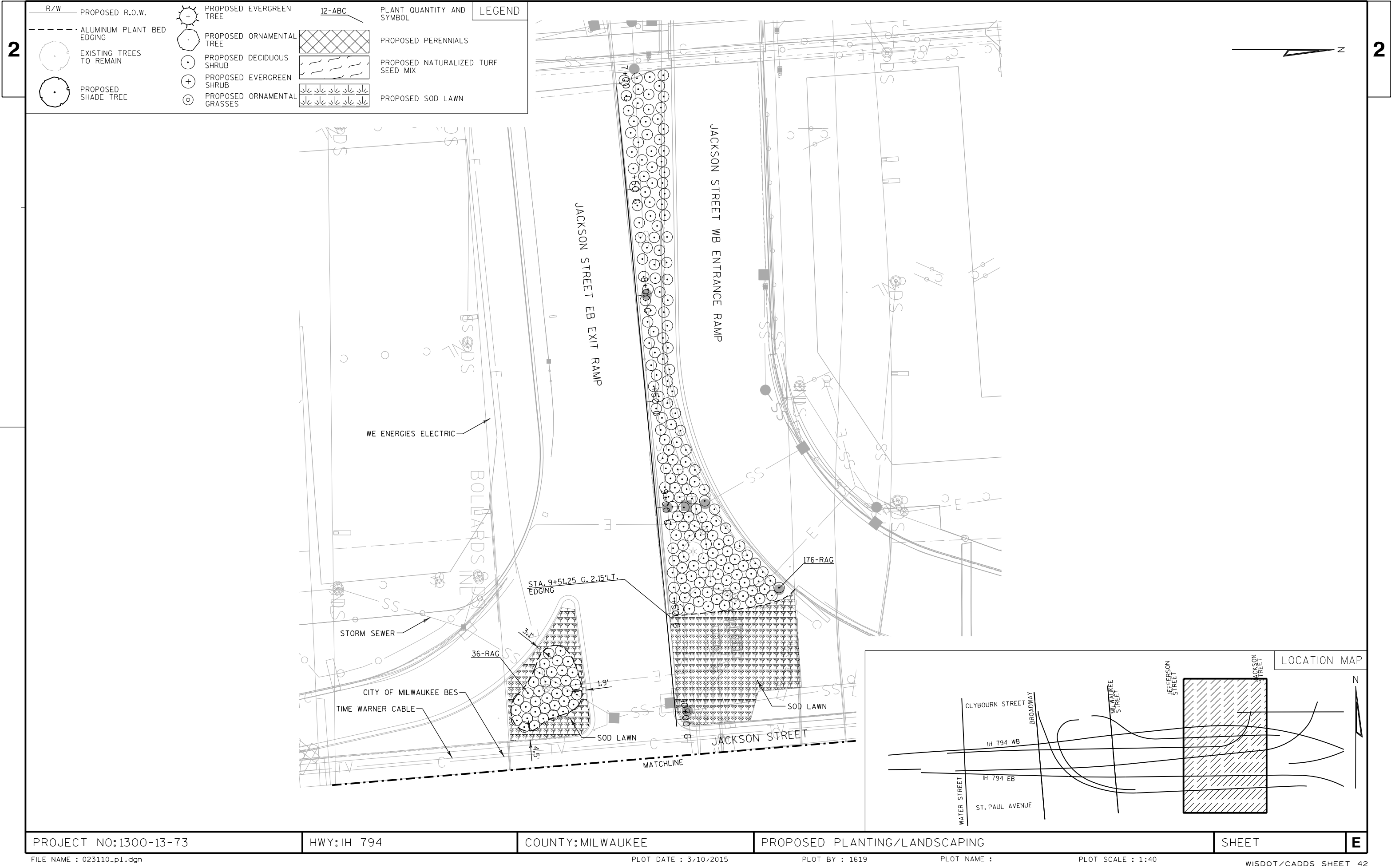


R/W	PROPOSED R.O.W.		PROPOSED EVERGREEN TREE	12-ABC	PLANT QUANTITY AND SYMBOL	LEGEND
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			PROPOSED ORNAMENTAL GRASSES			

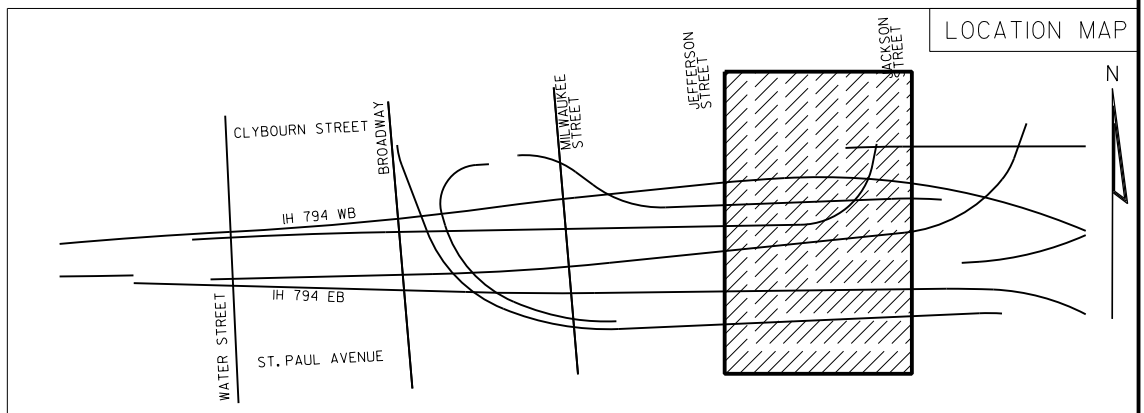


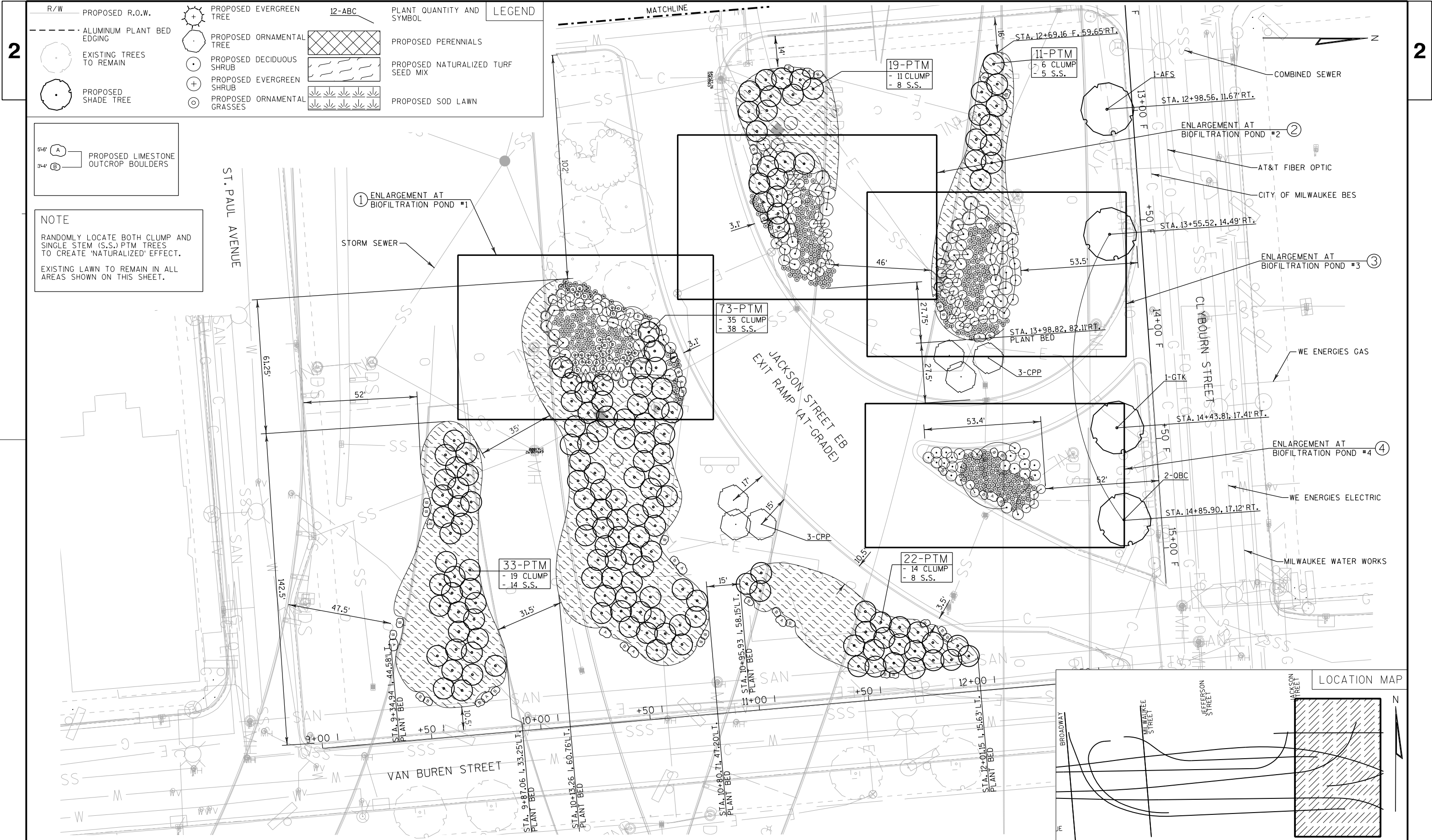
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	ALUMINUM PLANT BED EDGING		PROPOSED ORNAMENTAL TREE		PROPOSED PERENNIALS	
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R/W		PLANT QUANTITY AND SYMBOL	
PROPOSED R.O.W.	PROPOSED EVERGREEN TREE	12-ABC	PROPOSED PERENNIALS
ALUMINUM PLANT BED EDGING	PROPOSED ORNAMENTAL TREE		PROPOSED NATURALIZED TURF SEED MIX
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PROPOSED SHADE TREE	PROPOSED EVERGREEN SHRUB		
	PROPOSED ORNAMENTAL GRASSES		

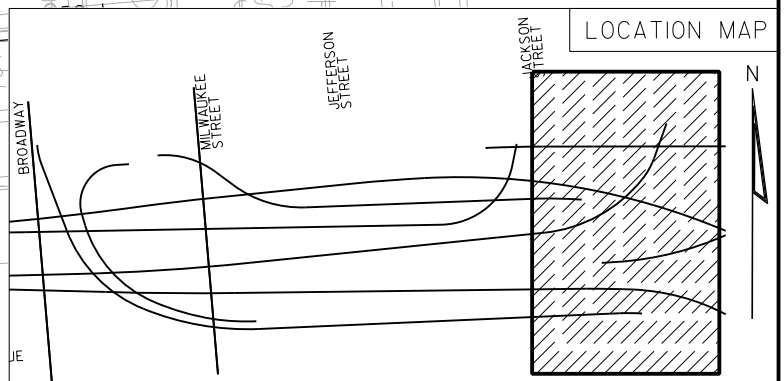


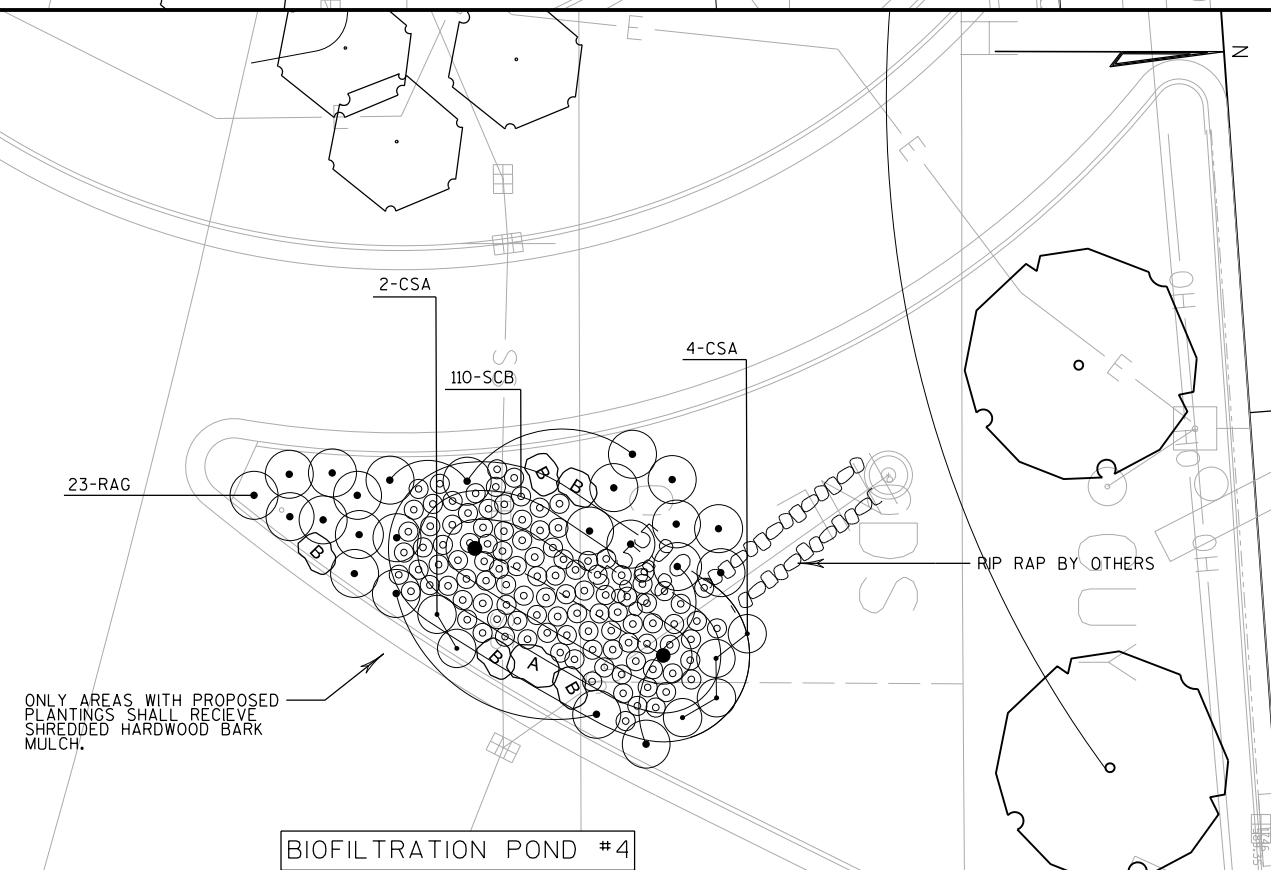
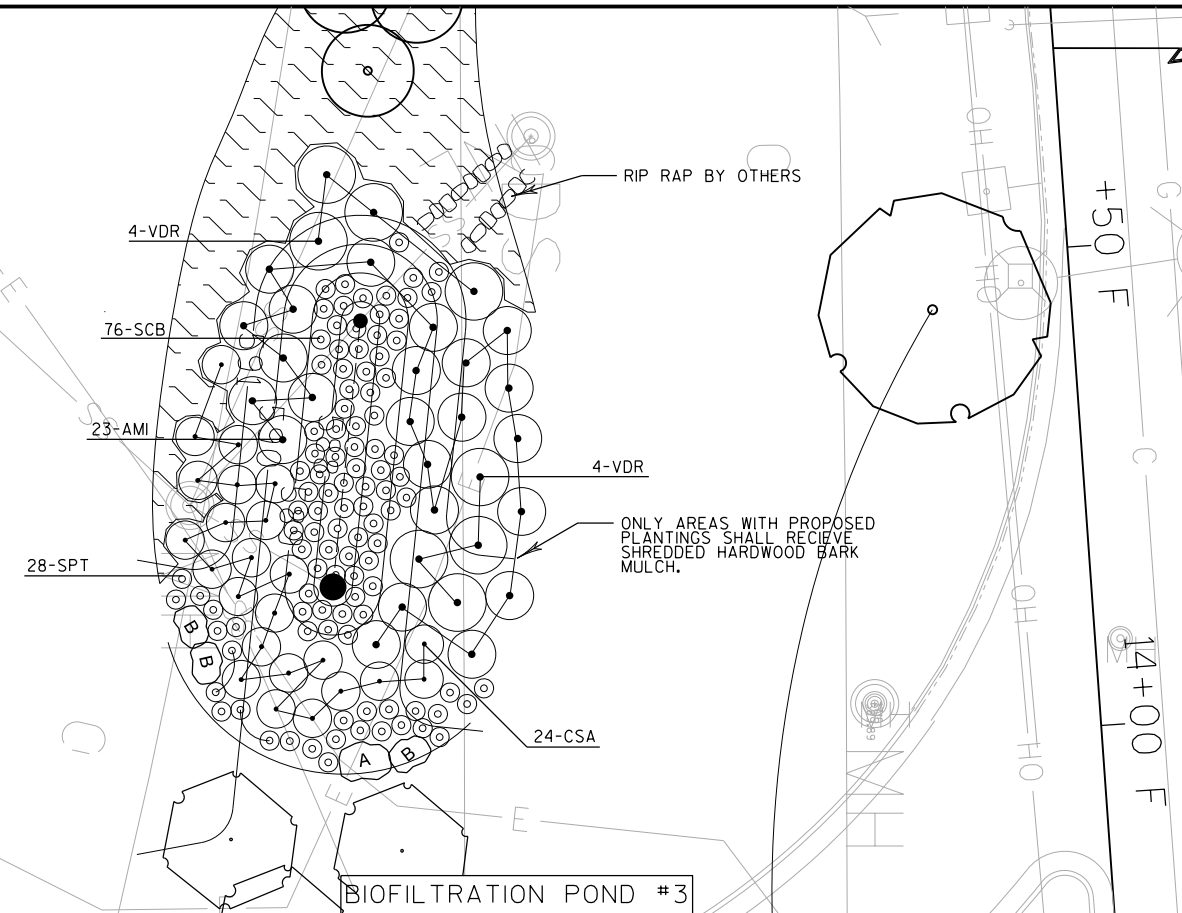
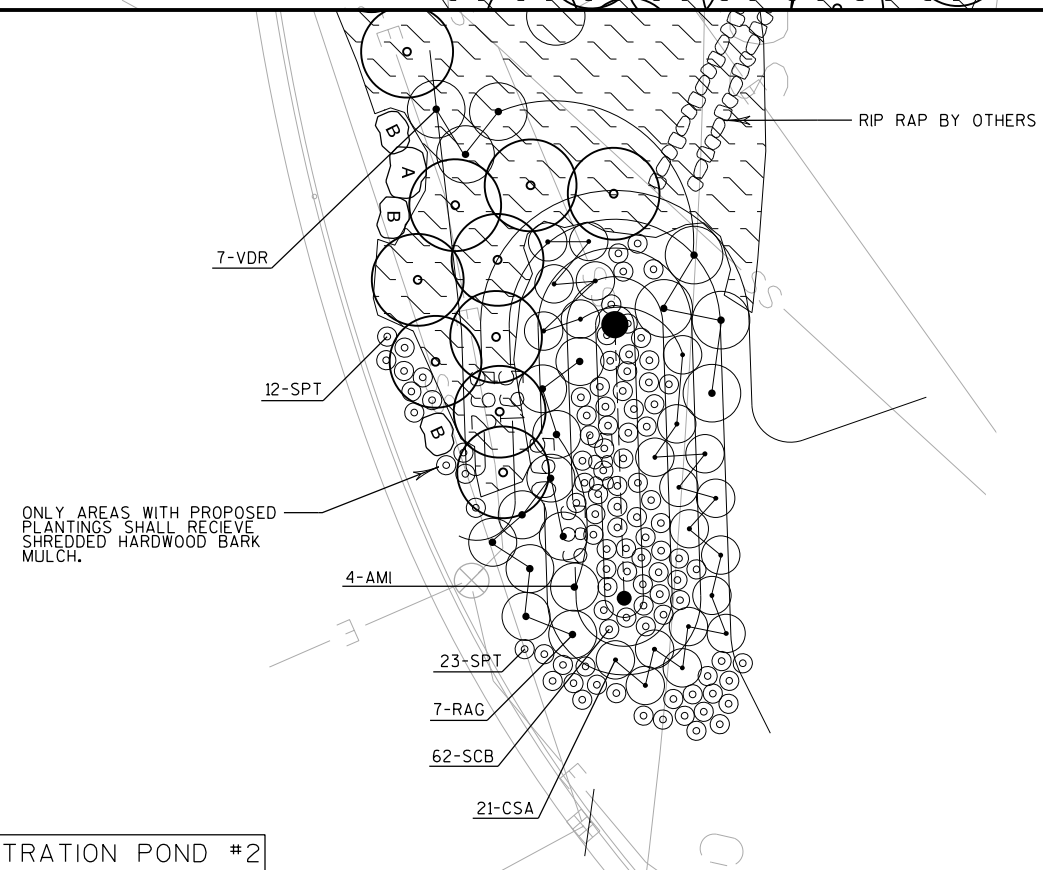
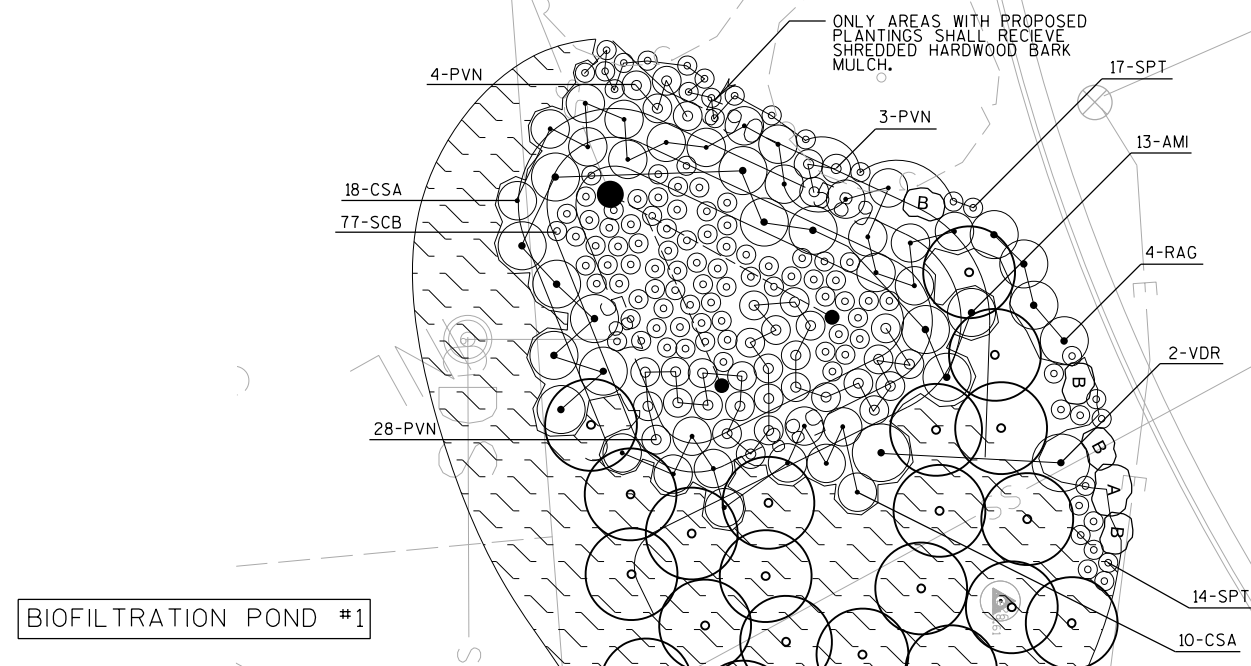
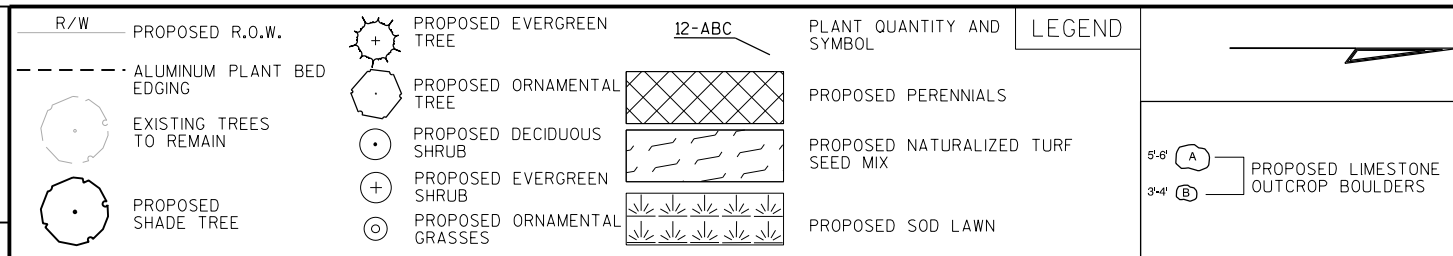


R/W	PROPOSED R.O.W.	PROPOSED EVERGREEN TREE	12-ABC	PLANT QUANTITY AND SYMBOL	LEGEND
---	ALUMINUM PLANT BED EDGING	PROPOSED ORNAMENTAL TREE	[Cross-hatch pattern]	PROPOSED PERENNIALS	
(Circle with dot)	EXISTING TREES TO REMAIN	PROPOSED DECIDUOUS SHRUB	[Wavy line pattern]	PROPOSED NATURALIZED TURF SEED MIX	
(Circle with cross)	PROPOSED SHADE TREE	PROPOSED EVERGREEN SHRUB	[Diagonal line pattern]	PROPOSED SOD LAWN	
		PROPOSED ORNAMENTAL GRASSES	[Stippled pattern]		

5'-6" (A) PROPOSED LIMESTONE OUTCROP BOULDERS
 3'-4" (B)

NOTE
 RANDOMLY LOCATE BOTH CLUMP AND SINGLE STEM (S.S.) PTM TREES TO 'CREATE' 'NATURALIZED' EFFECT.
 EXISTING LAWN TO REMAIN IN ALL AREAS SHOWN ON THIS SHEET.





GENERAL NOTES:

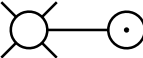
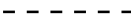
LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTIONS 652 TO 657 AND 659 EXCEPT:

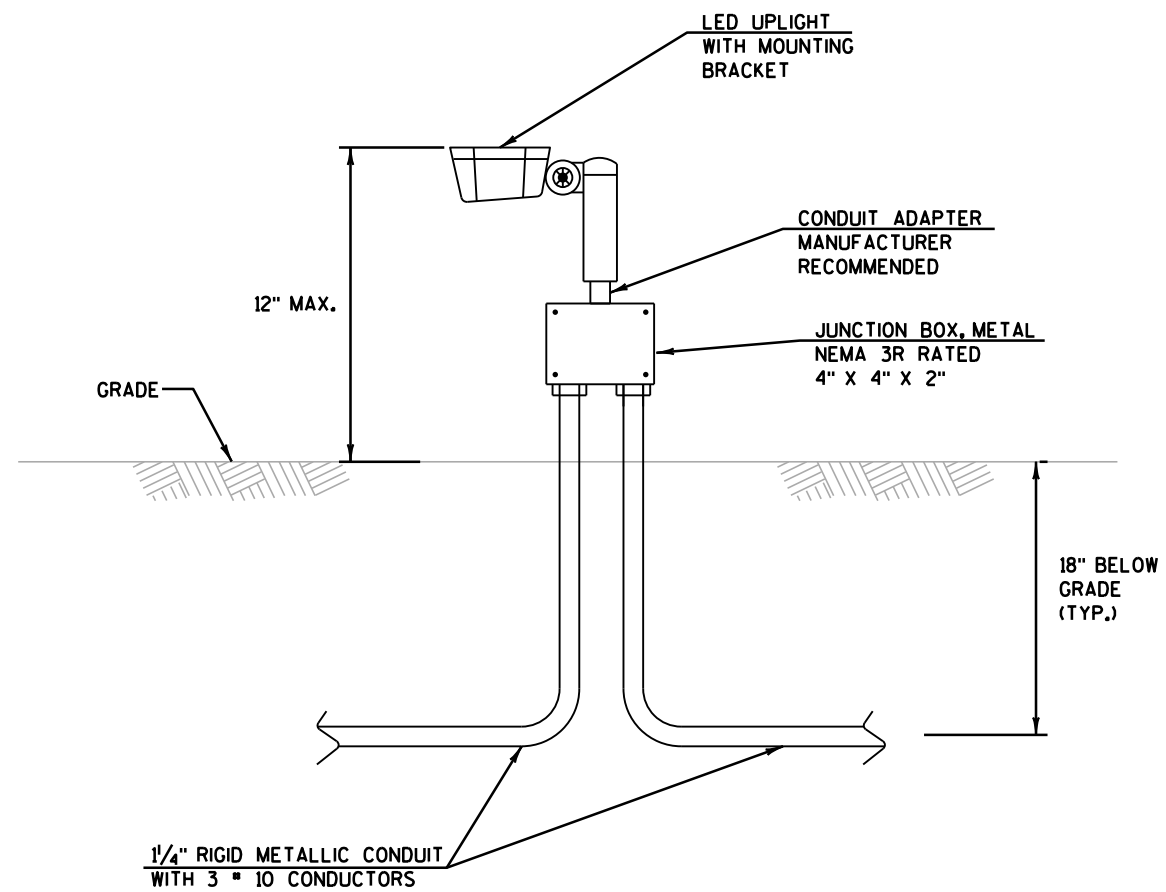
1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
2. LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE ENGINEER, APPROPRIATE ADJUSTMENT OF CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.
3. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION ON THE CONDUIT.
4. ALL OPEN AND UN-TERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION.
5. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.
6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.
7. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGLY ON THE CONDUIT THAT CAN BE EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.
8. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.
9. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.
10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (.PDF FORMAT) FOR ALL THE WORK BEING DONE.
11. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION.
12. UNDERGROUND WIRE & CONDUIT SHOWN ON REMOVAL PLANS FOR REMOVAL SHALL BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.
13. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:
PULL BOXES: 5-FT ONE WAY IN OR OUT
EMBEDDED JUNCTION BOXES: 3-FT
DISTRIBUTION CENTER/LOAD CENTER: 10-FT
14. PROVIDE REMOVABLE SEALANT SUCH AS DUCT SEAL IN THE CONDUITS AT THE CABINETS, PULL BOXES AND JUNCTION BOXES TO AVOID CONDENSATION CAUSED BY AIRFLOW THROUGH THE CONDUITS DUE TO TEMPERATURE DIFFERENCE. THIS WORK SHALL BE INCIDENTAL TO ASSOCIATED CONDUIT PAY ITEM.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
1P	1 PHASE
2W	2 WIRE
A	AMPERES
A.I.C.	AMPS INTERRUPTING CURRENT
AN	ABOVE NORMAL
AWG	AMERICAN WIRE GAUGE
B.N.	BELOW NORMAL
C	CONDUIT
CKT. OR CIRC.	CIRCUIT
DIA.	DIAMETER
EB	EAST BOUND
EXLPB	EXISTING LIGHTING PULL BOX
FT.	FEET
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
L.E.D.	LIGHT EMITTING DIODE
LPB	LIGHTING PULL BOX
LT	LEFT
M.B.	MAIN BREAKER
M.L.O.	MAIN LUGS ONLY
NB	NORTH BOUND
NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
No. /	NUMBER
N.T.S.	NOT TO SCALE
P	POLE WHEN USED WITH CIRCUIT BREAKER
RT	RIGHT
RTRC	CONDUIT REINFORCED THERMOSETTING RESIN 1-INCH
SB	SOUTH BOUND
SPD	SURGE- PROTECTION DEVICES
SS	STAINLESS STEEL
STA.	STATION
UDL	UNDERDECK LIGHTING
VAC	VOLTS ALTERNATING CURRENT
WB	WEST BOUND
W.S.C.S.	WISCONSIN STATE ELECTRICAL CODE
X'MER	TRANSFORMER

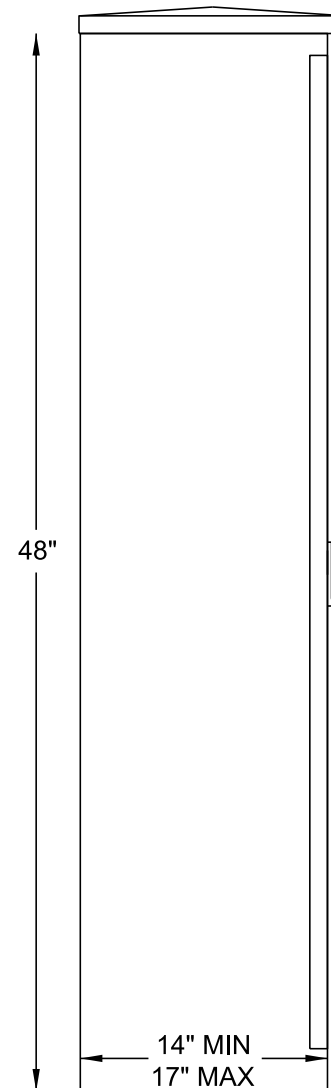
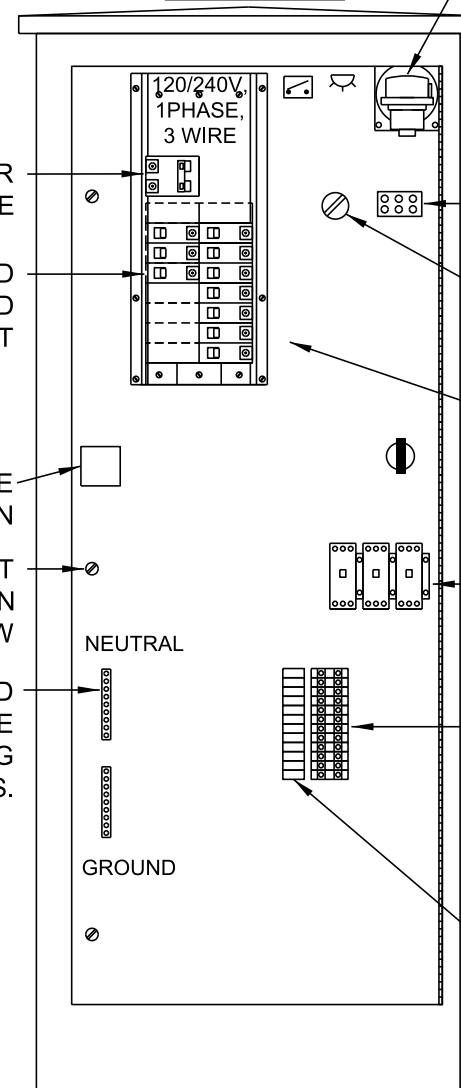
LEGEND : GENERAL

SYMBOL	DESCRIPTION
	LOCAL ENCLOSURE PEDESTAL FOR UPLIGHTS DISCONNECT
	LIGHTING CONTROLLER FOR LANDSCAPING LIGHTING, 120-240V
	HTWA LIGHT POLE
	CITY OF MILWAUKEE LIGHTING VAULT
	PROPOSED LED UPLIGHT
	EXISTING UNDERSTRUCTURE LIGHTING, WISDOT OWNED
	EXISTING CITY OF MILWAUKEE LIGHTING
	UNDERGROUND CONDUIT WITH CABLES, SIZE, AND TYPE AS NOTED

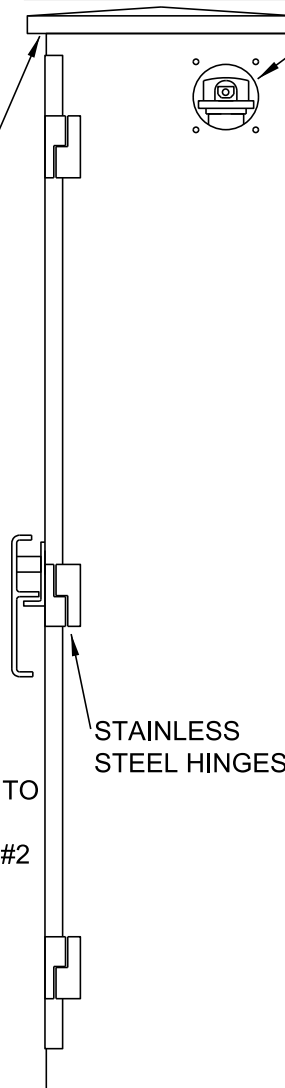


LANDSCAPING UPLIGHT MOUNTING DETAIL
N.T.S.

LEFT SIDE VIEW

FRONT
INTERIOR
ELEVATION

RIGHT SIDE VIEW

WINDOW FOR
PHOTOCELL
SIDE AND BACK
OF CABINETBACK FED MAIN BREAKER
IS ACCEPTABLEPANELBOARD MOUNTED
ON BACK PANEL BEHIND
DEAD FRONTSURGE
PROTECTIONDEAD FRONT
QUARTER-TURN
WING SCREWNEUTRAL BUS SIZED
TO ACCOMMODATE
#10 THRU #2 AWG
CONDUCTORS.STAINLESS STEEL
HANDLE WITH 3 - POINT
LATCH & PADLOCKING
PROVISIONS WITH LOCK
FOR #2 KEY

NEUTRAL

GROUND

NEMA TWIST-LOCK
WISDOT APPROVED
PHOTOCELL, 120V
MOUNTED BEHIND
WINDOWSVENTILATION
UNDER TOPPHOTOCELL
TERMINAL BLOCKHAND-OFF-AUTO SWITCH
MOUNTED ON HINGED
DEAD FRONTINTERIOR COMPONENTS
MOUNTED ON BACK
PANEL BEHIND HINGED
DEAD FRONT(3) 2P CONTACTORS,
240V COIL (CONTACTORS
SIZED AS REQUIRED)TERMINAL BLOCKS FOR
LIGHTING CIRCUIT
CONDUCTORS PRE WIRED TO
CONTACTORS. SIZED TO
ACCOMMODATE #10 THRU #2
AWG CONDUCTORS.

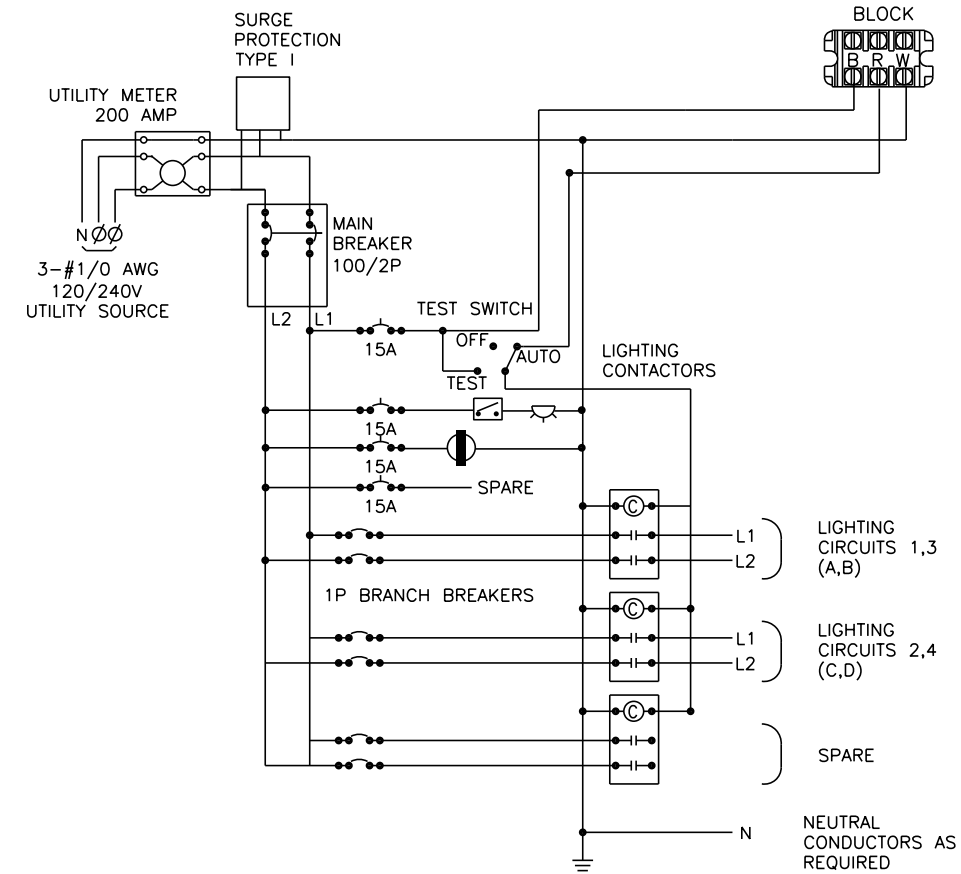
CIRCUIT LABELS

STAINLESS
STEEL HINGES**PANELBOARD:**

- 18 CIRCUIT MIN.
- 100 AMP MAIN CIRCUIT BREAKER
- COPPER BUS
- BOLT- ON BREAKERS
- 22K AIC
- (3) 15A/1P CONTROL BREAKER
- (1) 15A/1P SPARE
- (6) 20-1P BRANCH BREAKERS

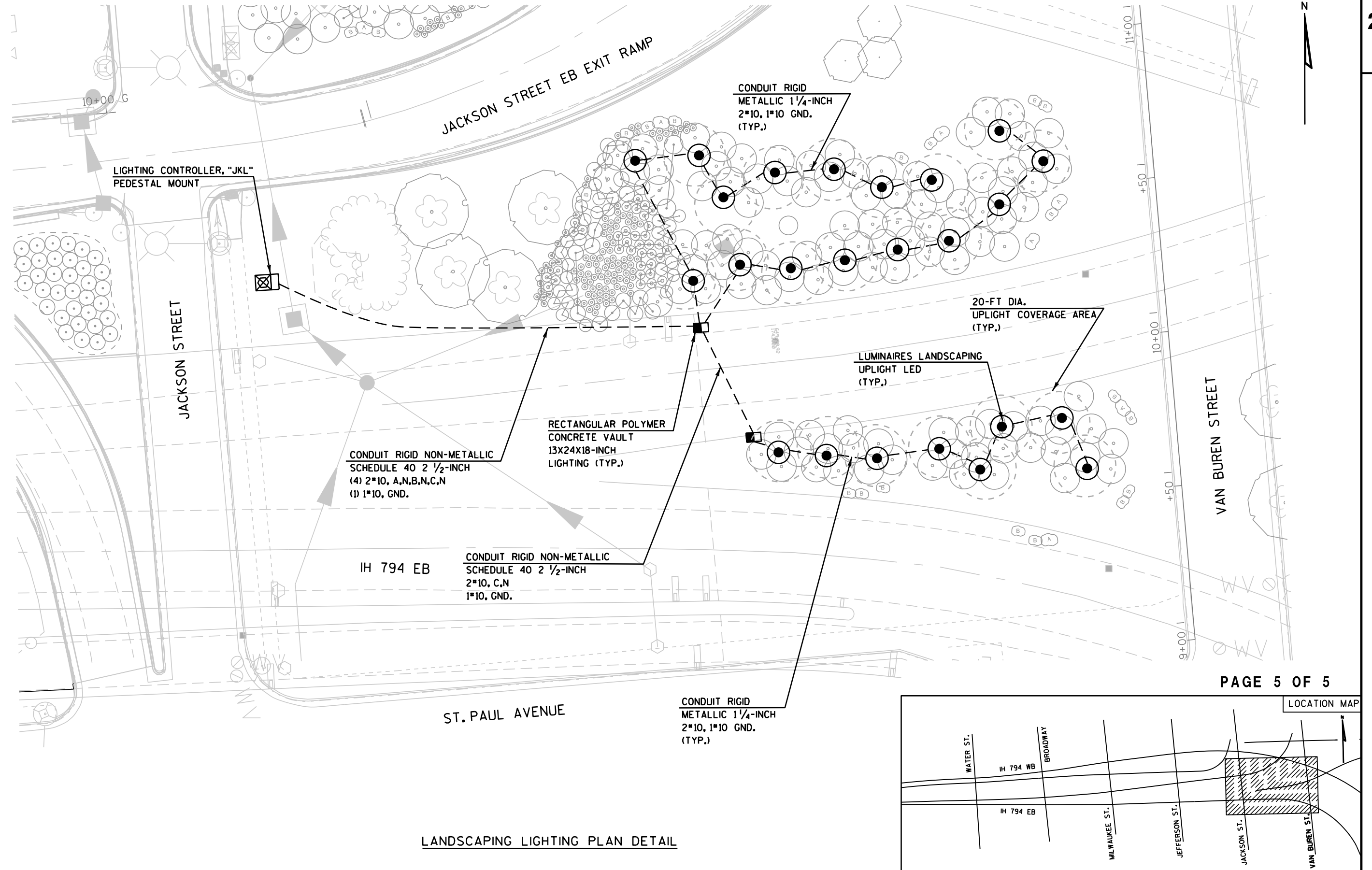
BOX CONSTRUCTION:

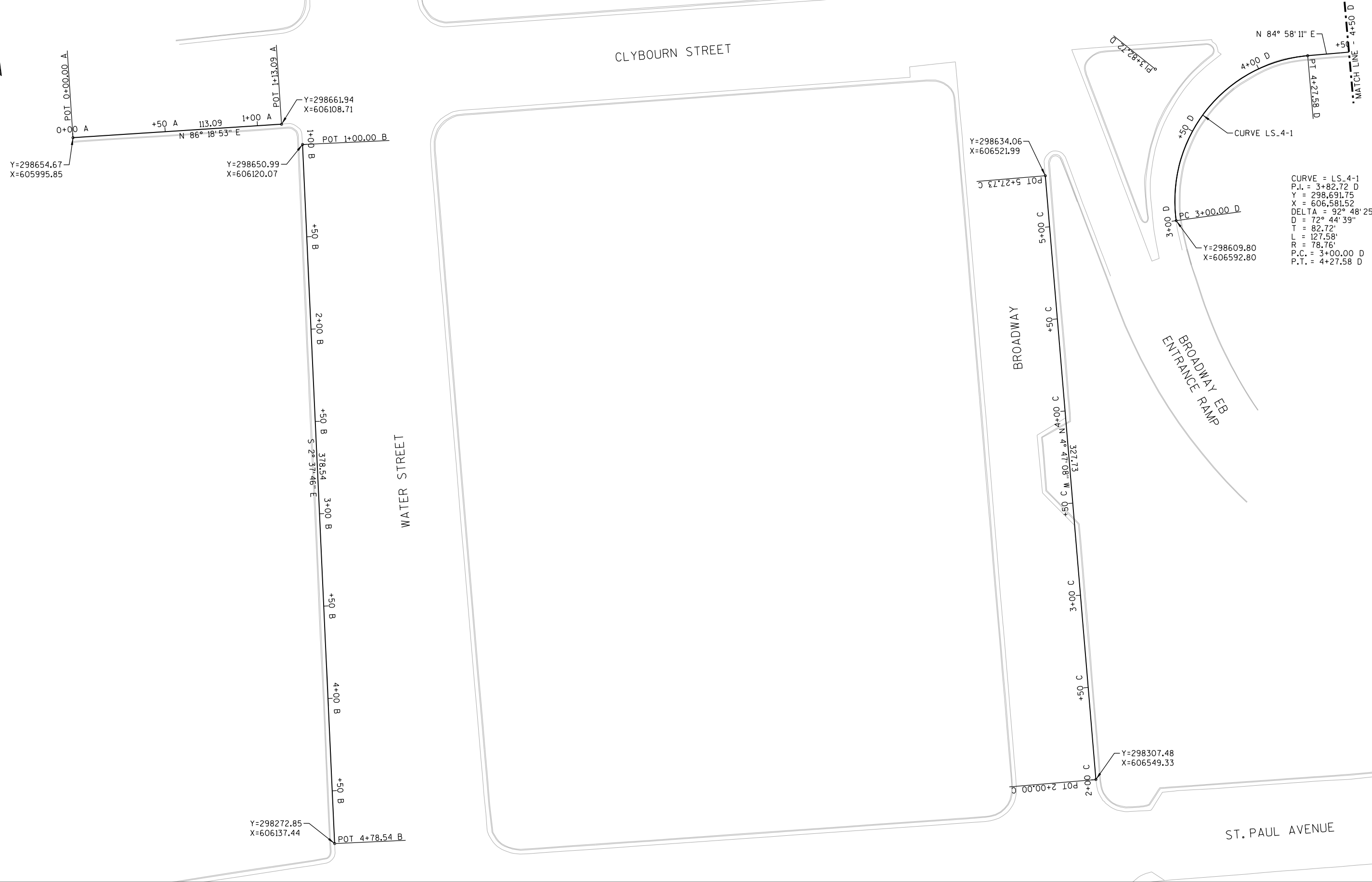
- NEMA 3R
- UL LISTED
- 1/8" ALUMINUM 5052-H32 ANODIZED CLEAR
- BENT CONSTRUCTION - ONE PIECE SIDES AND BACK
- NEOPRENE GASKETED DOORS
- STAINLESS STEEL HARDWARE
- ETL LISTED IN ACCORDANCE W/ UL508A

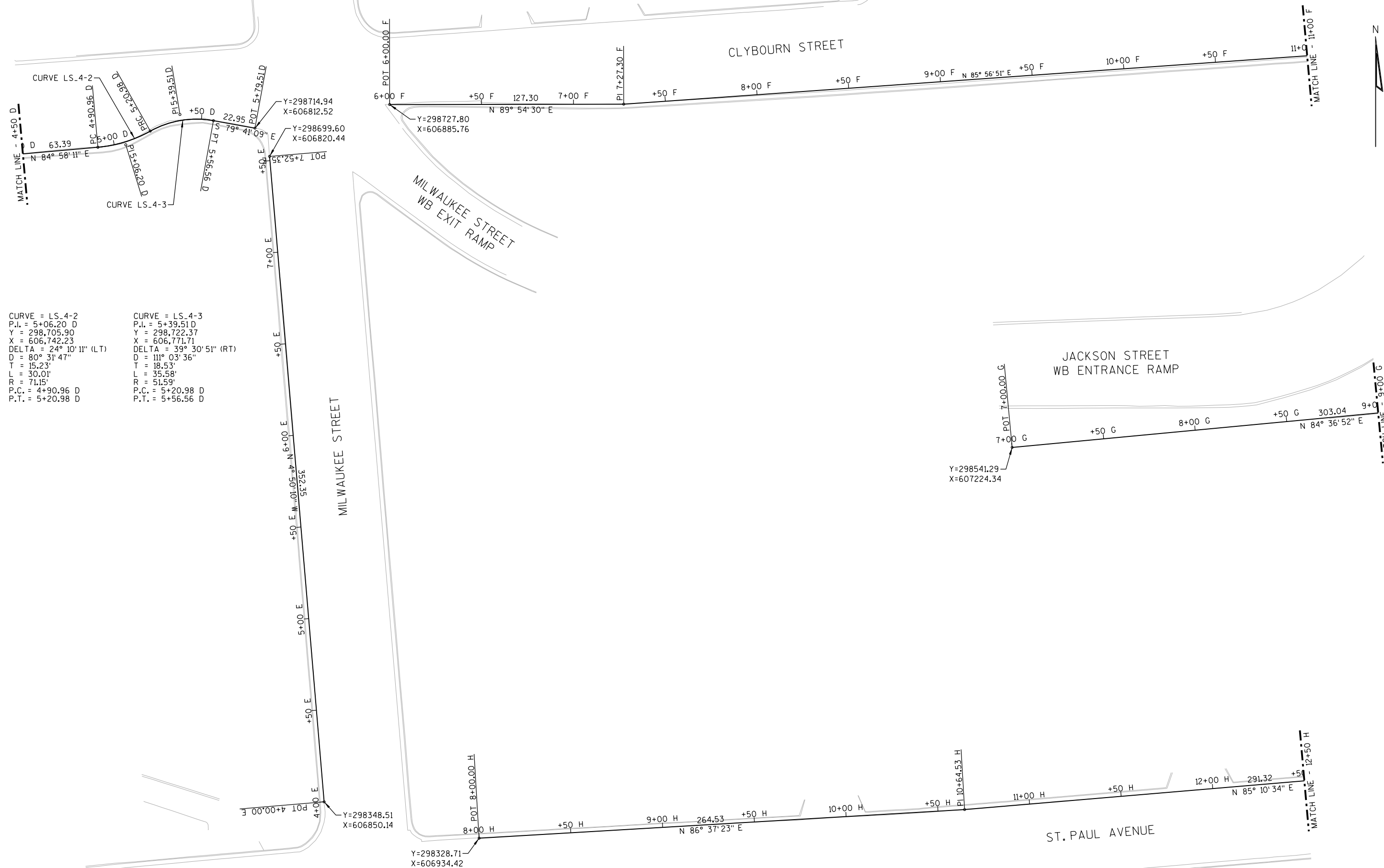
BASE FLANGE
WITH GASKET
FOR
PEDESTAL
MOUNT**CONTROL CABINET SCHEMATIC****120/240 VOLT LIGHTING
CONTROL CABINET
POV-WISDOT 120/240****LEGEND:**

- 15 AMP GFCI DUPLEX RECEPTACLE WITH COVER, 120V,
- SPST, 20 AMP SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
- INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60WATT, 120V LAMP.



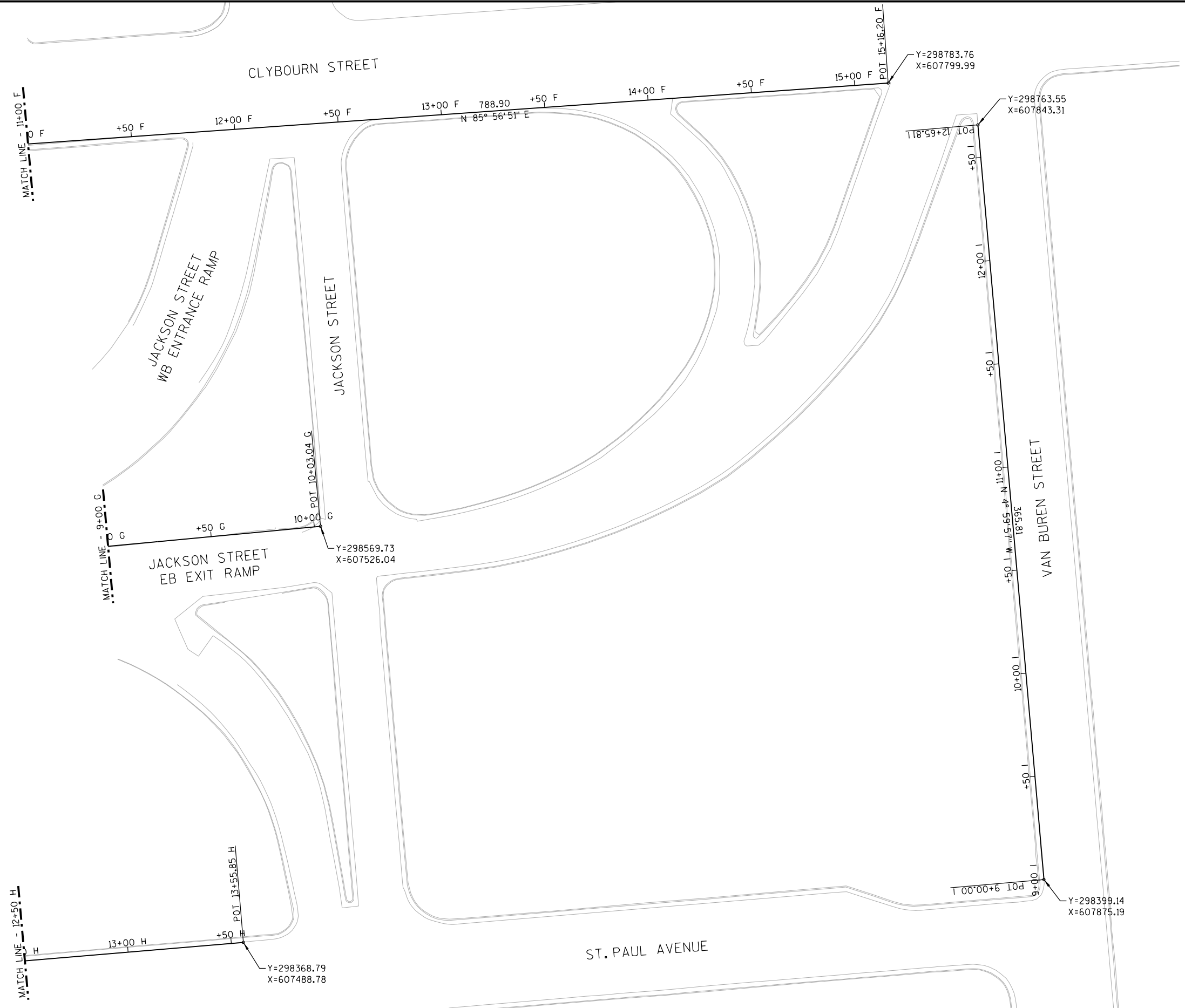






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PROJECT NO:1300-13-73

HWY: IH 794

COUNTY: MILWAUKEE

ALIGNMENT PLAN

SHEET

11

DATE 24AUG15		E S T I M A T E O F Q U A N T I T I E S			
LINE					1300-13-73
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	619.1000	Mobilization	EACH	1.000	1.000
0020	627.0200	Mulching	SY	2,078.000	2,078.000
0030	628.7005	Inlet Protection Type A	EACH	10.000	10.000
0040	628.7015	Inlet Protection Type C	EACH	22.000	22.000
0050	629.0205	Fertilizer Type A	CWT	2.050	2.050
0060	631.0300	Sod Water	MGAL	25.000	25.000
0070	631.1000	Sod Lawn	SY	1,130.000	1,130.000
0080	632.0101	Trees (species) (size) (root) 1001. Honeylocust, Skyline, B&B, 2.5-Inch Cal.	EACH	3.000	3.000
0090	632.0101	Trees (species) (size) (root) 1002. Maple, Sienna Glen, B&B, 2.5-Inch Cal.	EACH	2.000	2.000
0100	632.0101	Trees (species) (size) (root) 1003. Maple, State Street Miyabei, B&B, 2.5-Inch Cal.	EACH	6.000	6.000
0110	632.0101	Trees (species) (size) (root) 1004. Oak, Swamp White, B&B, 2.0-Inch Cal.	EACH	3.000	3.000
0120	632.0101	Trees (species) (size) (root) 1005. Dogwood, Golden Glory Corneliancherry, B&B, 6' Clump	EACH	7.000	7.000
0130	632.0101	Trees (species) (size) (root) 1006. Hawthorn, Washington, B&B, 10'-12' Clump	EACH	6.000	6.000
0140	632.0101	Trees (species) (size) (root) 1007. Quaking Aspen, B&B, 2.0-Inch Cal., Single Stem	EACH	86.000	86.000
0150	632.0101	Trees (species) (size) (root) 1008. Quaking Aspen, B&B, 10'-12' Clump	EACH	103.000	103.000
0160	632.0101	Trees (species) (size) (root) 1009. Lilac, China Snow Peking, B&B, 8'-10' Clump	EACH	3.000	3.000
0170	632.0201	Shrubs (species) (size) (root) 1001. Chokeberry, Brilliant Red, B&B 36" Ht	EACH	21.000	21.000
0180	632.0201	Shrubs (species) (size) (root) 1002. Chokeberry, Black-Iroquois Beauty, CG 24" Ht	EACH	104.000	104.000
0190	632.0201	Shrubs (species) (size) (root) 1003. Dogwood, Arctic Fire, CG 24" Ht	EACH	79.000	79.000
0200	632.0201	Shrubs (species) (size) (root) 1004. Burning Bush, Dwarf, B&B 48" Ht	EACH	4.000	4.000
0210	632.0201	Shrubs (species) (size) (root) 1005. Sumac, Gro Low, CG 24" Spread	EACH	374.000	374.000
0220	632.0201	Shrubs (species) (size) (root) 1006. Alpine Currant, Green Mound, CG 18" Ht	EACH	18.000	18.000
0230	632.0201	Shrubs (species) (size) (root) 1007. Rugosa Rose, Dwarf Pavement, CG 18" Ht	EACH	52.000	52.000
0240	632.0201	Shrubs (species) (size) (root) 1008. Viburnum, Autumn Jazz, B&B 48" Ht	EACH	19.000	19.000
0250	632.0201	Shrubs (species) (size) (root) 1009. Juniper, Iowa, B&B 60" Ht	EACH	37.000	37.000
0260	632.0201	Shrubs (species) (size) (root) 1010. Yew, Taunton Spreading, B&B 30" Ht	EACH	17.000	17.000
0270	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	26.000	26.000
0280	643.0100	Traffic Control (project) 0001. Project 1300-13-73	EACH	1.000	1.000
0290	643.0300	Traffic Control Drums	DAY	800.000	800.000
0300	643.0410	Traffic Control Barricades Type II	DAY	400.000	400.000
0310	643.0420	Traffic Control Barricades Type III	DAY	160.000	160.000
0320	643.0900	Traffic Control Signs	DAY	400.000	400.000

DATE 24AUG15			E S T I M A T E O F Q U A N T I T I E S		
LINE					1300-13-73
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0330	650.8500	Construction Staking Electrical Installations (project) 0001. Project 1300-13-73	LS	1.000	1.000
0340	652.0115	Conduit Rigid Metallic 1 1/4-Inch	LF	919.000	919.000
0350	652.0230	Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	LF	205.000	205.000
0360	654.0220	Concrete Control Cabinet Bases Type 10	EACH	2.000	2.000
0370	655.0615	Electrical Wire Lighting 10 AWG	LF	5,362.000	5,362.000
0380	SPV.0060	Special 1100. Rectangular Polymer Concrete Vault 13x24x18-Inch Lighting	EACH	2.000	2.000
0390	SPV.0060	Special 1109. Lighting Control Cabinet Base Mount 120/240 Vac Incl. Meter Enclosure	EACH	2.000	2.000
0400	SPV.0060	Special 1148. Limestone Outcrop Boulders, Type A (5'-6' L)X(18"-24" H)	EACH	10.000	10.000
0410	SPV.0060	Special 1149. Limestone Outcrop Boulders, Type B (3'-4' L)X(18"-24" H)	EACH	41.000	41.000
0420	SPV.0060	Special 1153. Perennials (Daylily, Strawberry Candy, CG 1 Gal.)	EACH	10.000	10.000
0430	SPV.0060	Special 1154. Ornamental Grasses (Grass, Feather Reed, CG 1 Gal.)	EACH	147.000	147.000
0440	SPV.0060	Special 1155. Ornamental Grasses (Switch Grass, Northwind, CG 1 Gal.)	EACH	43.000	43.000
0450	SPV.0060	Special 1156. Ornamental Grasses (Switch Grass, Shenandoah, CG 1 Gal.)	EACH	41.000	41.000
0460	SPV.0060	Special 1157. Ornamental Grasses (Prairie Dropseed, Tara Dwarf, CG 1 Gal.)	EACH	160.000	160.000
0470	SPV.0060	Special 1160. Luminaires Landscaping Uplight Led	EACH	44.000	44.000
0480	SPV.0060	Special 1161. Ornamental Grasses (Prairie Dropseed, CG4-Inch Pot)	EACH	1,640.000	1,640.000
0490	SPV.0060	Special 1162. Ornamental Grasses (Little Bluestem, The Blues, CG 1 Gal.)	EACH	325.000	325.000
0500	SPV.0060	Special 1163. Junction Boxes 4x4x2-Inch Nema 3r	EACH	44.000	44.000
0510	SPV.0085	Special 1001. Naturalized Turf Seed Mix	LB	15.000	15.000
0520	SPV.0090	Special 1043. Aluminum Plant Bed Edging	LF	707.000	707.000
0530	SPV.0105	Special 1045. Irrigation System	LS	1.000	1.000
0540	SPV.0180	Special 1003. Shredded Hardwood Bark Mulch	SY	4,360.000	4,360.000

LANDSCAPE PLANT QUANTITIES

MILWAUKEE
RIVER PARK AT
CLYBOURN AND
WATER

CLYBOURN
STREET
BETWEEN
BROADWAY AND
MILWAUKEE

CLYBOURN
STREET
BETWEEN
MILWAUKEE
AND
JEFFERSON

CLYBOURN
STREET
BETWEEN
JEFFERSON
AND JACKSON

ST PAUL
AVENUE-
NORTHSIDE,
WEST OF
MILWAUKEE

ST PAUL
AVENUE-
NORTHSIDE,
AT
JEFFERSON

ST PAUL
AVENUE-
NORTHSIDE,
ATJACKSON

MILWAUKEE
STREET
BETWEEN
CLYBOURN AND
ST PAUL

BROADWAY
STREETSCAPE

JACKSON
STREET
RAMPS

SPACE
BETWEEN
JACKSON AND
VAN BUREN

PROJECT
TOTALS

CATEGORY	BID ITEM NUMBER	SYMBOL	ITEM DESCRIPTION	023101_p1	023102_p1	023103_p1	023104_p1	023105_p1	023106_p1	023107_p1	023108_p1	023109_p1	023110_p1	023111_p1	EACH
LARGE DECIDUOUS TREES															
0010	632.0101.1001	GTK	TREES (HONEYLOCUST, SKYLINE, B&B, 2.5-INCH CAL.)	--	2	--	--	--	--	--	--	--	--	1	3
	632.0101.1002	AFS	TREES (MAPLE, SIENNA GLEN, B&B, 2.5-INCH CAL.)	1	--	--	--	--	--	--	--	--	--	1	2
	632.0101.1003	AMM	TREES (MAPLE, STATE STREET MIYABEI, B&B, 2.5-INCH CAL.)	--	--	--	--	4	--	--	--	2	--	--	6
	632.0101.1004	QBC	TREES (OAK, SWAMP WHITE, B&B, 2.0-INCH CAL.)	--	--	1	--	--	--	--	--	--	--	2	3
SMALL DECIDUOUS TREES															
	632.0101.1005	COM	TREES (DOGWOOD, GOLDEN GLORY CORNELIANCHERRY, B&B, 6' CLUMP)	--	7	--	--	--	--	--	--	--	--	--	7
	632.0101.1006	CPP	TREES (HAWTHORN, WASHINGTON, B&B, 10'-12' CLUMP)	--	--	--	--	--	--	--	--	--	--	6	6
	632.0101.1007	PTM	TREES (QUAKING ASPEN, B&B, 2.0-INCH CAL., SINGLE STEM)	13	--	--	--	--	--	--	--	--	--	73	86
	632.0101.1008	PTM	TREES (QUAKING ASPEN, B&B, 10'-12' CLUMP)	18	--	--	--	--	--	--	--	--	--	85	103
	632.0101.1009	SPM	TREES (LILAC, CHINA SNOW PEKING, B&B, 8'-10' CLUMP)	1	--	2	--	--	--	--	--	--	--	--	3
DECIDUOUS SHRUBS															
	632.0201.1001	AAB	SHRUBS (CHOKEBERRY, BRILLIANT RED, B&B, 36" HT)	3	--	18	--	--	--	--	--	--	--	--	21
	632.0201.1002	AMI	SHRUBS (CHOKEBERRY, BLACK-IROQUOIS BEAUTY, CG, 24" HT)	--	--	9	9	11	--	--	28	7	--	40	104
	632.0201.1003	CSA	SHRUBS (DOGWOOD, ARCTIC FIRE, CG, 24" HT)	--	--	--	--	--	--	--	--	--	--	79	79
	632.0201.1004	EAC	SHRUBS (BURNING BUSH, DWARF, B&B, 48" HT)	--	--	2	2	--	--	--	--	--	--	--	4
	632.0201.1005	RAG	SHRUBS (SUMAC, GRO LOW, CG, 24" SPREAD)	16	96	16	--	--	--	--	--	--	212	34	374
	632.0201.1006	RAP	SHRUBS (ALPINE CURRANT, GREEN MOUND, CG, 18" HT)	--	--	--	18	--	--	--	--	--	--	--	18
	632.0201.1007	RRD	SHRUBS (RUGOSA ROSE, DWARF PAVEMENT, CG, 18" HT)	--	--	6	--	30	8	8	--	--	--	--	52
	632.0201.1008	VDR	SHRUBS (VIBURNUM, AUTUMN JAZZ, B&B, 48" HT)	--	--	--	--	--	2	--	--	--	--	17	19
EVERGREEN SHRUBS															
	632.0201.1009	JCI	SHRUBS (JUNIPER, IOWA, B&B, 60" HT)	7	--	--	--	12	11	7	--	--	--	--	37
	632.0201.1010	TMT	SHRUBS (YEW, TAUNTON SPREADING, B&B, 30" HT)	--	--	7	10	--	--	--	--	--	--	--	17
PERENNIALS															
	SPV.0060.1153	HMS	PERENNIALS (DAYLILY, STRAWBERRY CANDY, 1 GAL.)	10	--	--	--	--	--	--	--	--	--	--	10
ORNAMENTAL GRASSES															
	SPV.0060.1154	CAK	ORNAMENTAL GRASSES (GRASS, FEATHER REED, 1 GAL.)	10	44	32	--	22	22	17	--	--	--	--	147
	SPV.0060.1155	PVN	ORNAMENTAL GRASSES (SWITCH GRASS, NORTHWIND, 1 GAL.)	--	--	8	--	--	--	--	--	--	--	35	43
	SPV.0060.1156	PVS	ORNAMENTAL GRASSES (SWITCH GRASS, SHENANDOAH, 1 GAL.)	11	--	--	--	--	30	--	--	--	--	--	41
	SPV.0060.1157	SPT	ORNAMENTAL GRASSES (PRAIRIE DROPSEED, TARA DWARF, 1 GAL.)	20	--	46	--	--	--	--	--	--	--	94	160
	SPV.0060.1161	SPH	ORNAMENTAL GRASSES (PRAIRIE DROPSEED, 4-INCH POT)	1,640	--	--	--	--	--	--	--	--	--	--	1,640
	SPV.0060.1162	SCB	ORNAMENTAL GRASSES (LITTLE BLUESTEM, THE BLUES, 1 GAL.)	--	--	--	--	--	--	--	--	--	--	325	325

MISCELLANEOUS LANDSCAPE QUANTITIES																	
				632.9101	627.0200	628.7005	628.7015	629.0200	631.0300	631.1000	SPV.0060.1148	SPV.0060.1149	SPV.0085.1001	SPV.0090.1043	SPV.0105.1045	SPV.0180.1003	
				LANDSCAPE	MULCHING	INLET	INLET	FERTILIZER	SOD	SOD	LIMESTONE	LIMESTONE	NATURALIZED	ALUMINUM	IRRIGATION	SHREDDED	
				PLANTING		PROTECTION	PROTECTION	TYPE A	WATER	LAWN	OUTCROP	OUTCROP	TURF SEED	PLANT BED	SYSTEM	HARDWOOD	
				SURVEILLANCE		TYPE A	TYPE C				BOULDERS	BOULDERS	MIX	EDGING		BARK	
				AND CARE							TYPE A	TYPE B				MULCH	
				CYCLES							(5'-6' L)X	(3'-4' L)X					
											(18"-24" H)	(18"-24" H)					
CATEGORY	LOCATION	FROM	TO	SHEET	EACH	SY	EACH	EACH	CWT	MGAL	SY	EACH	EACH	LB	LF	LS	SY
0010	MILWAUKEE RIVER PARK	MILWAUKEE RIVER	WATER STREET	023101_pl	--	--	--	--	0.10	4	165	--	--	--	177	1	523
	CLYBOURN STREET	BROADWAY	MILWAUKEE STREET	023102_pl	--	--	--	--	0.30	11	472	--	--	--	296	--	474
	CLYBOURN STREET	MILWAUKEE STREET	PEDESTRIAN WALKWAY	023103_pl	--	--	--	--	0.05	1	51	--	--	--	47	--	251
	CLYBOURN STREET	PEDESTRIAN WALKWAY	JACKSON STREET	023104_pl	--	--	--	--	0.05	1	24	--	--	--	--	--	104
	ST PAUL AVENUE	BROADWAY	MILWAUKEE STREET	023105_pl	--	--	--	--	--	--	--	--	--	--	--	--	23
	ST PAUL AVENUE	MILWAUKEE STREET	PEDESTRIAN WALKWAY	023106_pl	--	--	--	--	--	--	--	--	--	--	--	--	179
	ST PAUL AVENUE	PEDESTRIAN WALKWAY	JACKSON STREET	023107_pl	--	--	--	--	--	--	--	--	--	--	--	--	127
	MILWAUKEE STREET	ST PAUL AVENUE	CLYBOURN STREET	023108_pl	--	--	--	--	--	--	--	--	--	--	--	--	68
	BROADWAY	ST PAUL AVENUE	CLYBOURN STREET	023109_pl	--	--	--	--	--	--	--	--	--	--	--	--	29
	JACKSON STREET SERVICE RAMPS	PEDESTRIAN WALKWAY	JACKSON STREET	023110_pl	--	--	--	--	0.25	9	419	--	--	--	187	--	823
	BIOFILTRATION AREAS	JACKSON STREET	VAN BUREN STREET	023111_pl	--	2,078	--	--	1.30	--	--	10	41	15	--	--	1,759
UNDISTRIBUTED					26	--	10	22	--	--	--	--	--	--	--	--	--
PROJECT TOTALS					26	2,078	10	22	2.05	25	1,130	10	41	15	707	1	4,360

MOBILIZATION		
619.1000		
CATEGORY	PROJECT	EACH
0010	1300-13-73	1
PROJECT TOTAL		1

TRAFFIC CONTROL (1300-13-73)		
643.0100 TRAFFIC CONTROL (1300-13-73)		
CATEGORY	PROJECT	EACH
0010	1300-13-73	1
PROJECT TOTAL		1

TRAFFIC CONTROL									
		643.0300 TRAFFIC CONTROL DRUMS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0900 TRAFFIC CONTROL SIGNS		
CATEGORY	LOCATION	DRUM	DAYS	BARRICADE	DAYS	BARRICADE	DAYS	CODE	EACH
0010	UNDISTRIBUTED	20	800	10	400	4	160	R9-10	10
PROJECT TOTALS			800	400		160		400	

CONSTRCUTION STAKING			
		650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (1300-13-73)	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (1300-13-73)
CATEGORY	PROJECT	LS	LS
0010	1300-13-73	1	1
PROJECT TOTAL		1	1

3

3

LIGHTING CONDUIT AND WIRES

652.0115
CONDUIT
RIGID
METALLIC
1 1/4-INCH

652.0230
CONDUIT
RIGID
NON-METALLIC
SCHEDULE
40 2 1/2-INCH

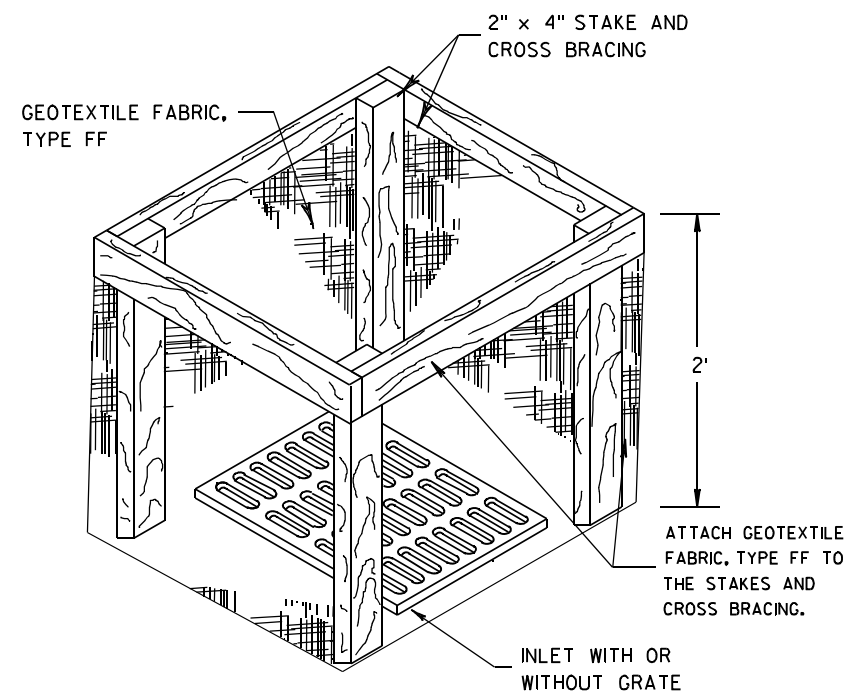
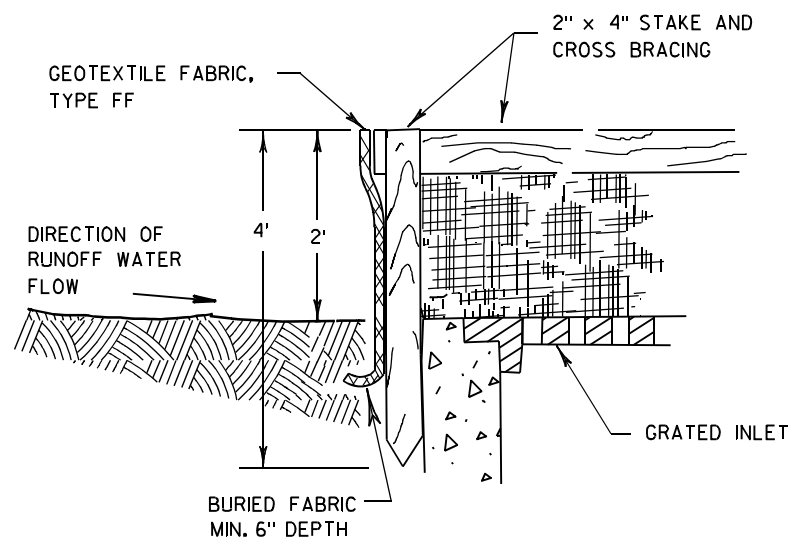
655.0615
ELECTRICAL
WIRE
LIGHTING
10 AWG

CATEGORY	SYSTEM	DESCRIPTION	FROM	TO	LF	LF	LF		
RIVER WALK	LOAD CENTER	CONT. (STA.1+39B, 15' RT.)	LV(STA. 1+41 B, 25' RT.)	--	10	175			
		LV(STA. 1+41 B, 25' RT.)	LV(STA. 2+20 B, 75' RT.)	--	--	770			
		LV(STA. 2+20 B, 75' RT.)	A1(STA. 2+37, 73' RT.)	22	--	75			
		A1(STA. 2+37, 73' RT.)	A2(STA. 2+36, 61' RT.)	18	--	63			
		A2(STA. 2+36, 61' RT.)	A3(STA. 2+38, 44' RT.)	21	--	72			
		A3(STA. 2+38, 44' RT.)	A4(STA. 2+50, 45' RT.)	17	--	60			
		A4(STA. 2+50, 45' RT.)	A5(STA. 2+50, 57' RT.)	18	--	63			
		A5(STA. 2+50, 57' RT.)	A6(STA. 2+49, 67' RT.)	15	--	54			
		LV(STA. 2+20 B, 75' RT.)	B1(STA. 2+29, 70' RT.)	17	--	60			
		B1(STA. 2+29, 70' RT.)	B2(STA. 2+28, 59' RT.)	17	--	60			
		B2(STA. 2+28, 59' RT.)	B3(STA. 2+28, 47' RT.)	17	--	60			
		B3(STA. 2+28, 47' RT.)	B4(STA. 2+30, 37' RT.)	17	--	60			
		B4(STA. 2+30, 37' RT.)	B5(STA. 2+40, 35' RT.)	14	--	51			
		LV(STA. 2+20 B, 75' RT.)	C1(STA. 2+26, 108' RT.)	38	--	123			
		C1(STA. 2+26, 108' RT.)	C2(STA. 2+26, 117' RT.)	15	--	54			
		C2(STA. 2+26, 117' RT.)	C3(STA. 2+26, 125' RT.)	14	--	51			
		C3(STA. 2+26, 125' RT.)	C4(STA. 2+36, 127' RT.)	16	--	57			
		C4(STA. 2+36, 127' RT.)	C5(STA. 2+26, 117' RT.)	15	--	54			
		C5(STA. 2+26, 117' RT.)	C6(STA. 2+35, 103' RT.)	19	--	66			
		C6(STA. 2+35, 103' RT.)	C7(STA. 2+48, 110' RT.)	20	--	69			
		C7(STA. 2+48, 110' RT.)	C8(STA. 2+49, 120' RT.)	15	--	54			
		C8(STA. 2+49, 120' RT.)	C9(STA. 2+46, 128' RT.)	14	--	51			
		SUBTOTAL-RIVER WALK					359	10	2,202
BIO-FILTRATION	LOAD CENTER	CONT. (STA.10+41, 290' LT.)	LV(STA. 10+14, 151' RT.)	--	150	1,120			
		LV(STA. 10+14, 151' RT.)	A1(STA. 10+34, 136' RT.)	29	--	96			
		A1(STA. 10+34, 136' RT.)	A2(STA. 10+31, 120' RT.)	21	--	72			
		A2(STA. 10+31, 120' RT.)	A3(STA. 10+32, 102' RT.)	23	--	78			
		A3(STA. 10+32, 102' RT.)	A4(STA. 10+34, 85' RT.)	23	--	78			
		A4(STA. 10+34, 85' RT.)	A5(STA. 10+35, 68' RT.)	23	--	78			
		A5(STA. 10+35, 68' RT.)	A6(STA. 10+46, 51' RT.)	25	--	84			
		A6(STA. 10+46, 51' RT.)	A7(STA. 10+58, 36' RT.)	25	--	84			
		A7(STA. 10+58, 36' RT.)	A8(STA. 10+70, 48' RT.)	23	--	78			
		LV(STA. 10+14, 151' RT.)	B1(STA. 10+30, 152' RT.)	20	--	69			
		B1(STA. 10+30, 152' RT.)	B2(STA. 10+70, 167' RT.)	44	--	141			
		B1(STA. 10+30, 152' RT.)	B2(STA. 10+70, 146' RT.)	21	--	72			
		B2(STA. 10+70, 146' RT.)	B3(STA. 10+56, 140' RT.)	21	--	72			
		B3(STA. 10+56, 140' RT.)	B4(STA. 10+62, 122' RT.)	24	--	81			
		B4(STA. 10+62, 122' RT.)	B5(STA. 10+62, 103' RT.)	24	--	81			
		B5(STA. 10+62, 103' RT.)	B6(STA. 10+55, 88' RT.)	21	--	72			
		B6(STA. 10+55, 88' RT.)	B7(STA. 10+56, 72' RT.)	21	--	72			
		LV(STA. 10+14, 151' RT.)	LV(STA.9+78, 136' RT.)	--	45	144			
		LV(STA.9+78, 136' RT.)	C1(STA. 9+72, 128' RT.)	15	--	54			
		C1(STA. 9+72, 128' RT.)	C2(STA. 9+70, 148' RT.)	21	--	72			
		C2(STA. 9+70, 148' RT.)	C3(STA. 9+68, 97' RT.)	21	--	72			
		C3(STA. 9+68, 97' RT.)	C4(STA. 9+69, 77' RT.)	25	--	84			
		C4(STA. 9+69, 77' RT.)	C5(STA. 9+61, 65' RT.)	21	--	72			
		C5(STA. 9+61, 65' RT.)	C6(STA. 9+74, 57' RT.)	21	--	72			
		C6(STA. 9+74, 57' RT.)	C7(STA. 9+75, 37' RT.)	25	--	84			
		C7(STA. 9+75, 37' RT.)	C8(STA. 9+58, 30' RT.)	23	--	78			
		SUBTOTAL-BIO-FILTRATION					560	195	3,160
		PROJECT TOTAL					919	205	5,362

LIGHTING LUMINAIRES, JUNCTION BOXES, AND CONTROLLER									
CATEGORY	SYSTEM	DESCRIPTION	STATION	OFFSET	654.0220	SPV.0060.1100	SPV.0060.1109	SPV.0060.1160	SPV.0060.1163
					CONTROL	RECTANGULAR	LIGHTING	LUMINAIRES	JUNCTION BOXES
					CABINET	POLYMER	CONTROL	LANDSCAPING	4X4X2-INCH
					BASES	CONCRETE	CABINET	UPLIGHT	NEMA 3R
					TYPE 10	VAULT	BASE MOUNT	LED	
						13X24X18-INCH	120/240 VAC		
					EACH	LIGHTING	INCL. METER ENC.	EACH	EACH
						EACH	EACH		
RIVER WALK									
			2+37 B	27' RT.	--	--	--	1	1
			2+28 B	47' RT.	--	--	--	1	1
			2+28 B	59' RT.	--	--	--	1	1
			2+29 B	70' RT.	--	--	--	1	1
			2+37 B	73' RT.	--	--	--	1	1
			2+36 B	61' RT.	--	--	--	1	1
			2+38 B	44' RT.	--	--	--	1	1
			2+40 B	35' RT.	--	--	--	1	1
			2+38 B	44' RT.	--	--	--	1	1
			2+50 B	57' RT.	--	--	--	1	1
			2+49 B	67' RT.	--	--	--	1	1
			2+26 B	108' RT.	--	--	--	1	1
			2+26 B	117' RT.	--	--	--	1	1
			2+26 B	125' RT.	--	--	--	1	1
			2+36 B	127' RT.	--	--	--	1	1
			2+36 B	117' RT.	--	--	--	1	1
			2+35 B	103' RT.	--	--	--	1	1
			2+48 B	110' RT.	--	--	--	1	1
			2+49 B	120' RT.	--	--	--	1	1
			2+46 B	128' RT.	--	--	--	1	1
			1+39 B	15' RT.	1	--	1	--	--
			2+37 B	27' RT.	--	--	--	--	--
SUBTOTAL RIVER WALK					1	0	1	20	20
BIO-INFILTRATION									
			10+41	390' LT.	1	--	1	--	--
			10+34	136' LT.	--	--	--	1	1
			10+31	120' LT.	--	--	--	1	1
			10+32	102' LT.	--	--	--	1	1
			10+34	85' LT.	--	--	--	1	1
			10+35	68' LT.	--	--	--	1	1
			10+46	51' LT.	--	--	--	1	1
			10+58	36' LT.	--	--	--	1	1
			10+70	48' LT.	--	--	--	1	1
			10+30	152' LT.	--	--	--	1	1
			10+70	167' LT.	--	--	--	1	1
			10+70	146' LT.	--	--	--	1	1
			10+56	140' LT.	--	--	--	1	1
			10+62	122' LT.	--	--	--	1	1
			10+62	103' LT.	--	--	--	1	1
			10+55	88' LT.	--	--	--	1	1
			10+56	72' LT.	--	--	--	1	1
			9+72	128' LT.	--	--	--	1	1
			9+70	114' LT.	--	--	--	1	1
			9+68	97' LT.	--	--	--	1	1
			9+69	77' LT.	--	--	--	1	1
			9+61	65' LT.	--	--	--	1	1
			9+74	57' LT.	--	--	--	1	1
			9+75	37' LT.	--	--	--	1	1
			9+58	30' LT.	--	--	--	1	1
			10+14	151' LT.	--	1	--	--	--
			9+78	136' LT.	--	1	--	--	--
SUBTOTAL-BIO FILTRATION					1	2	1	24	24
PROJECT TOTAL					2	2	2	44	44

Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
14A02-01	TREE PLANTING DETAIL
15D28-01	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE



INLET PROTECTION, TYPE A

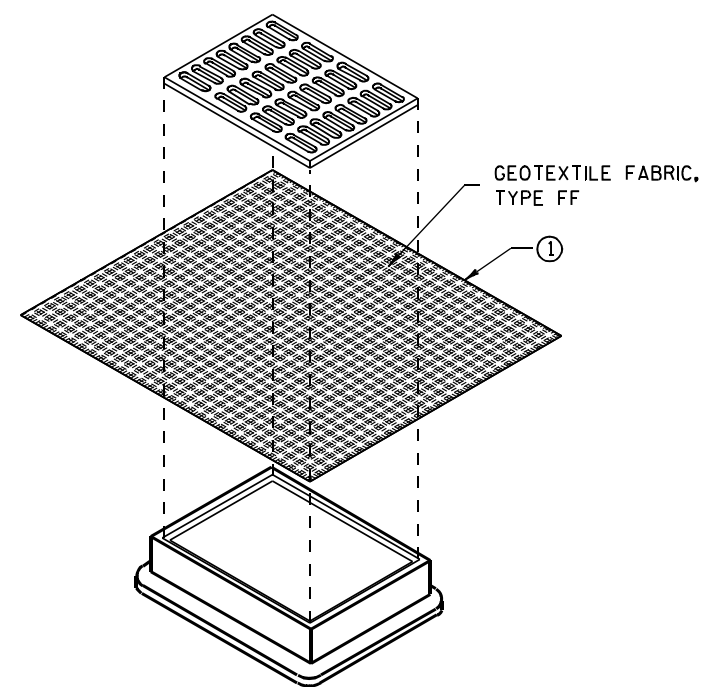
GENERAL NOTES

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.

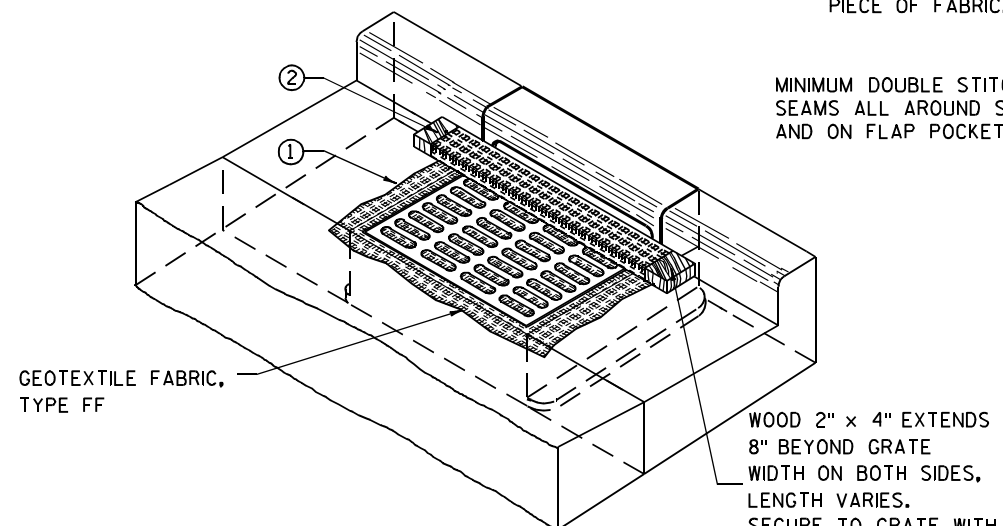
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 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.

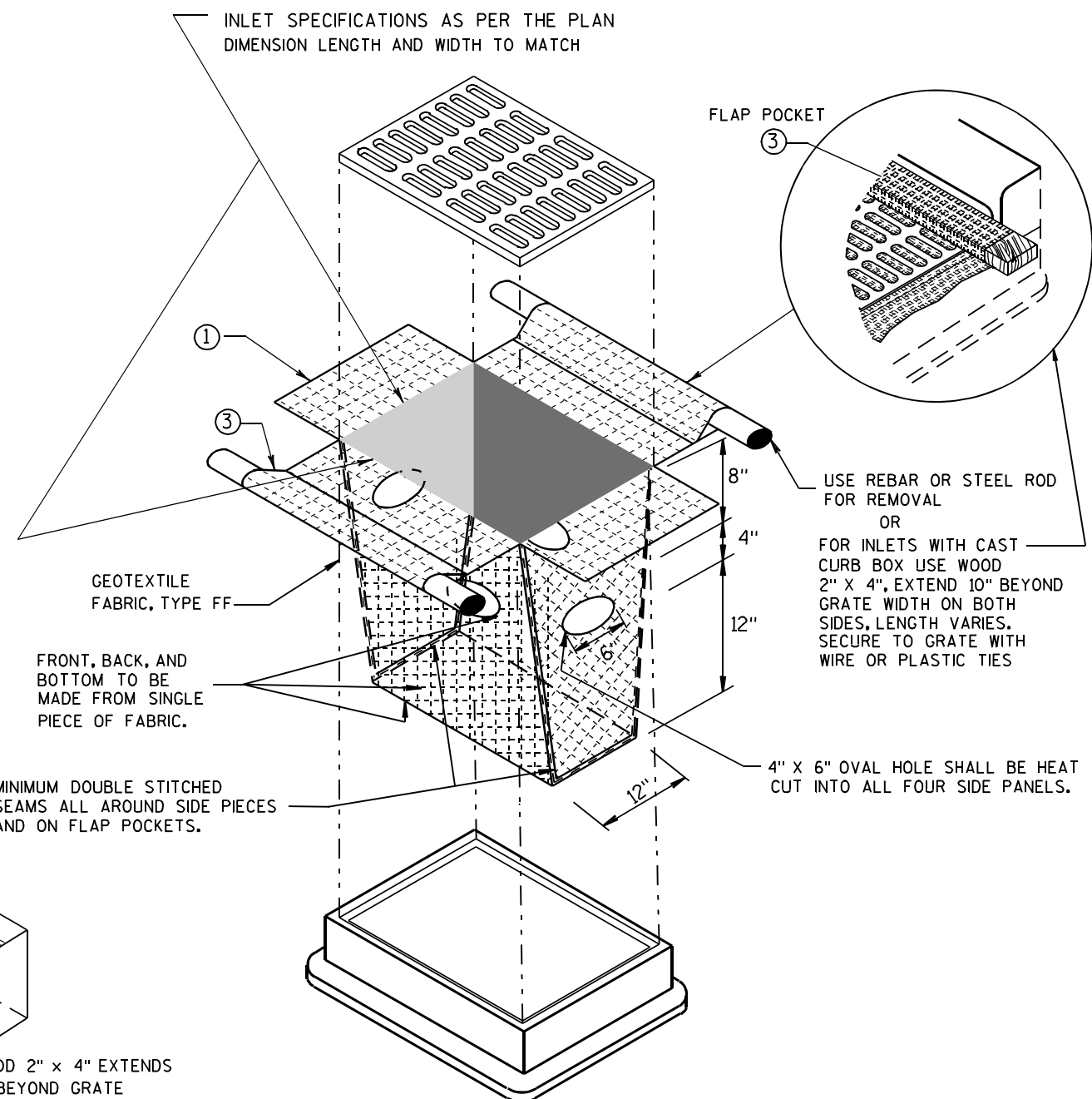
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

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.



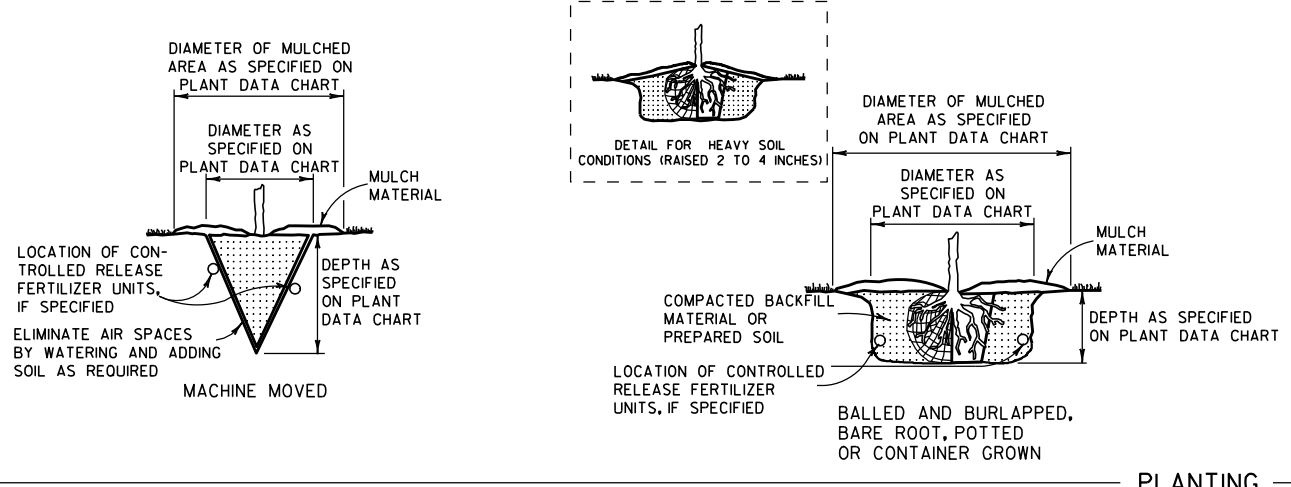
INLET PROTECTION, TYPE D

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

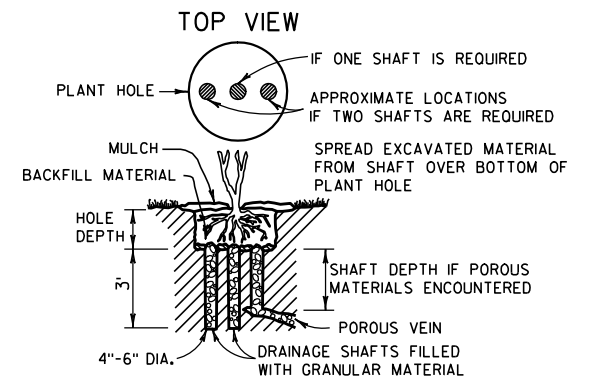
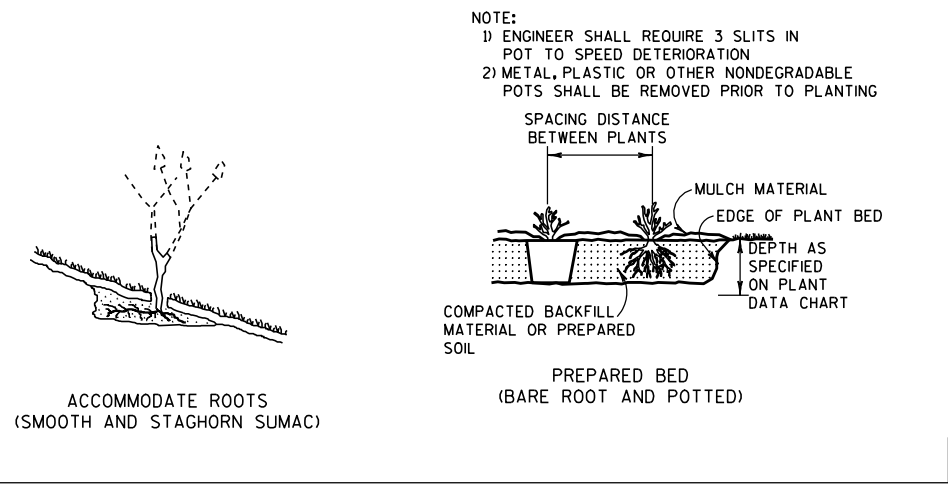
**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 /S/ Beth Cannestra
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

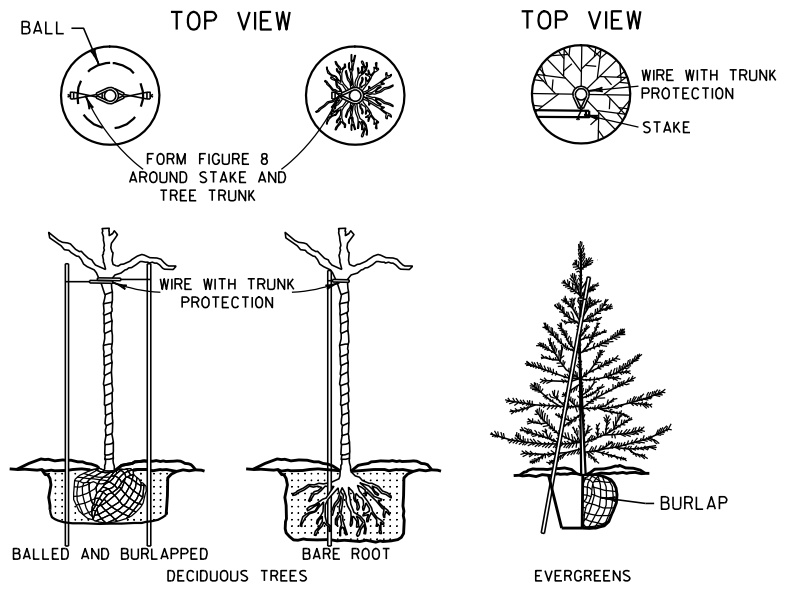
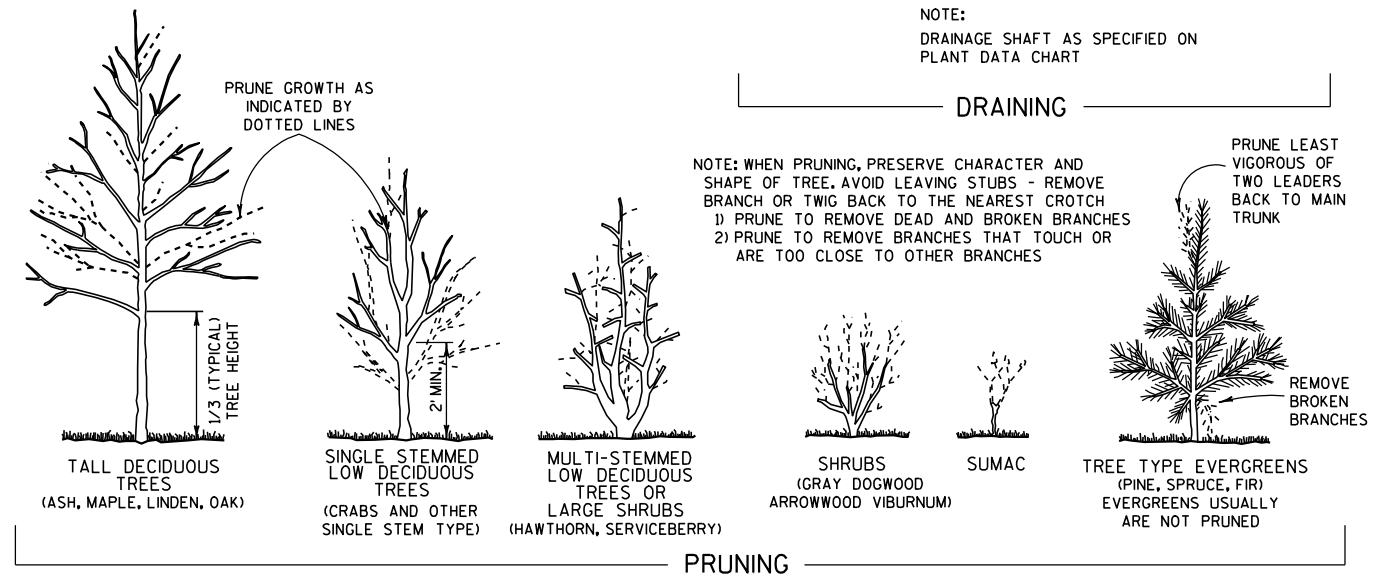
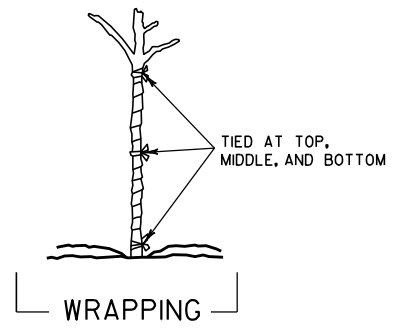
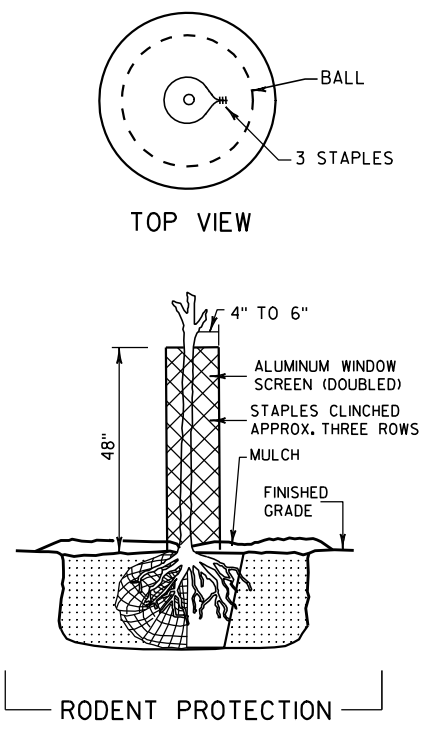
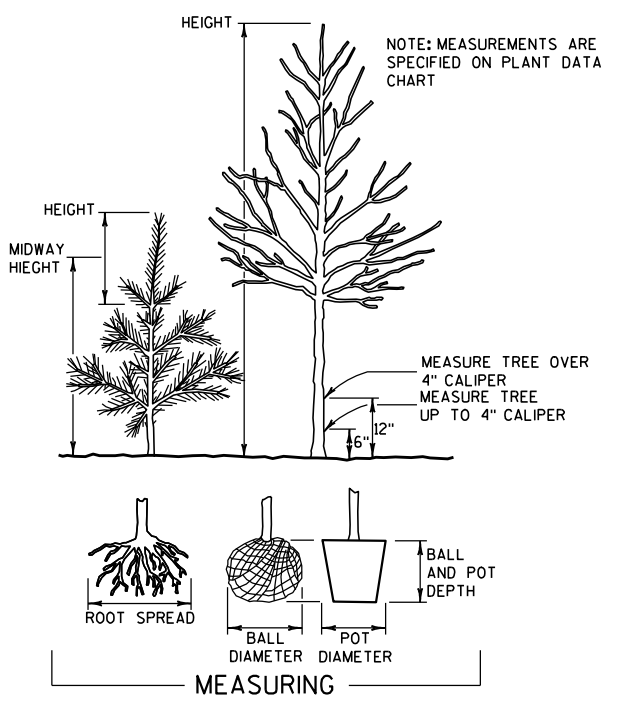


PLANTING



NOTE: DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

DRAINING



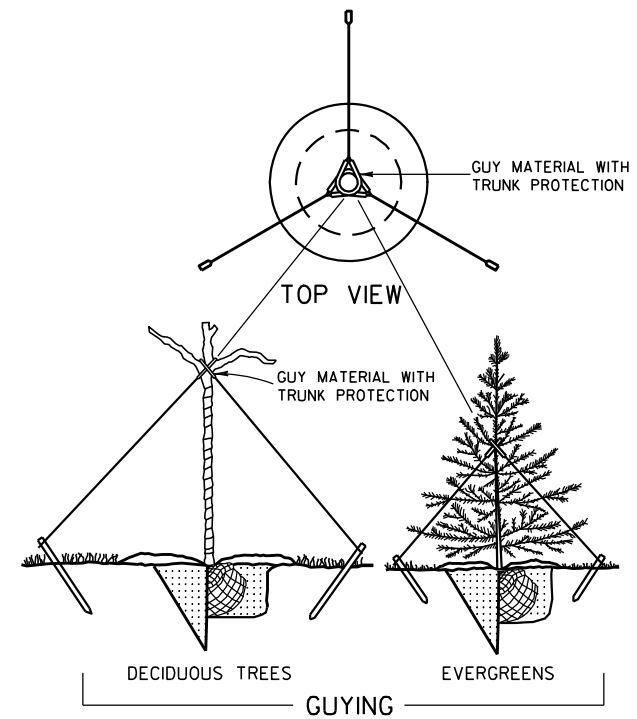
NOTE: BRACING STAKE

1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.

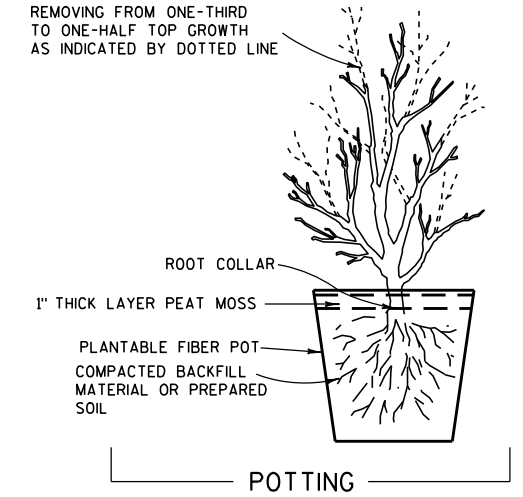
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.

3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND

4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.



PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

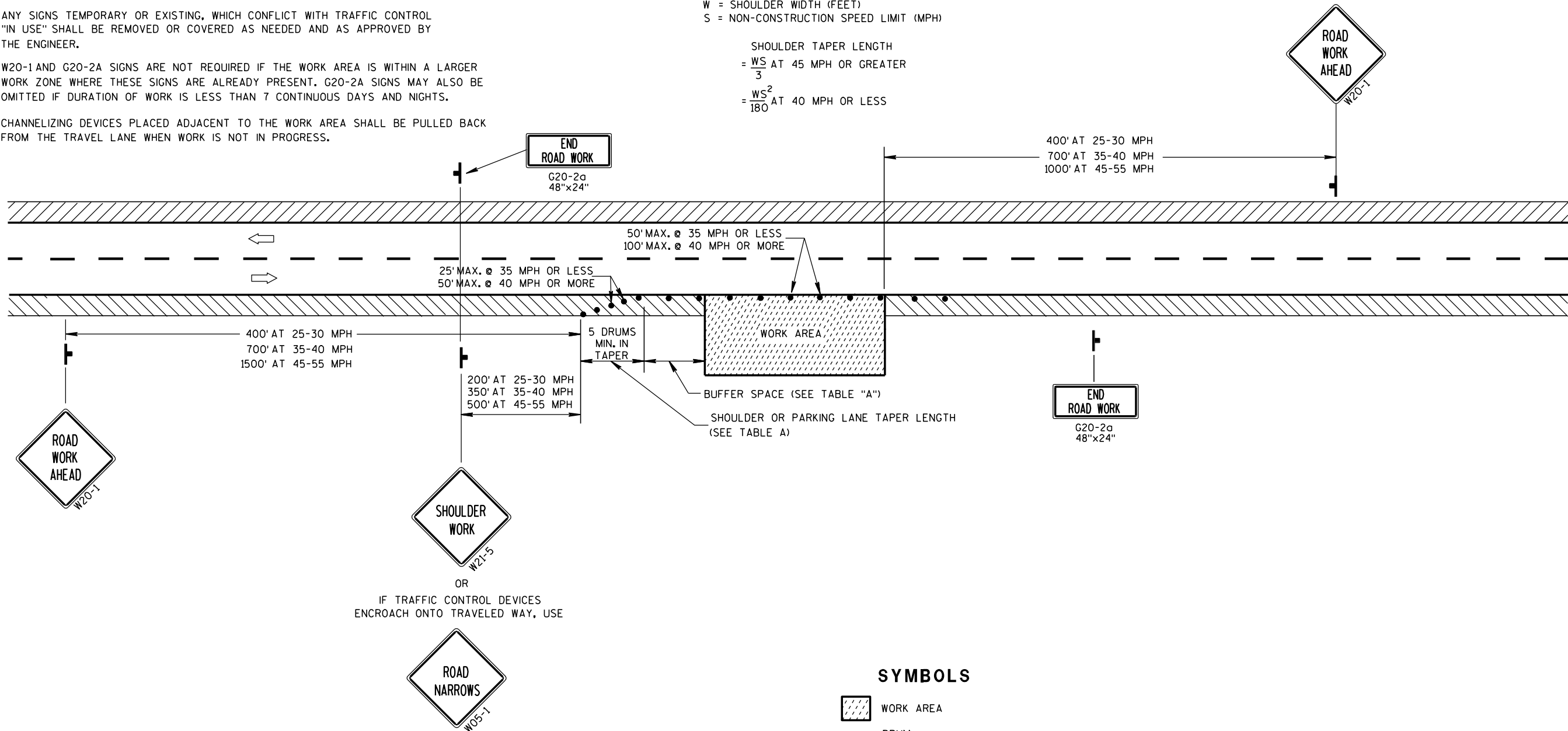
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S	W	4	6	8	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= $\frac{WS}{3}$ AT 45 MPH OR GREATER
= $\frac{WS^2}{180}$ AT 40 MPH OR LESS



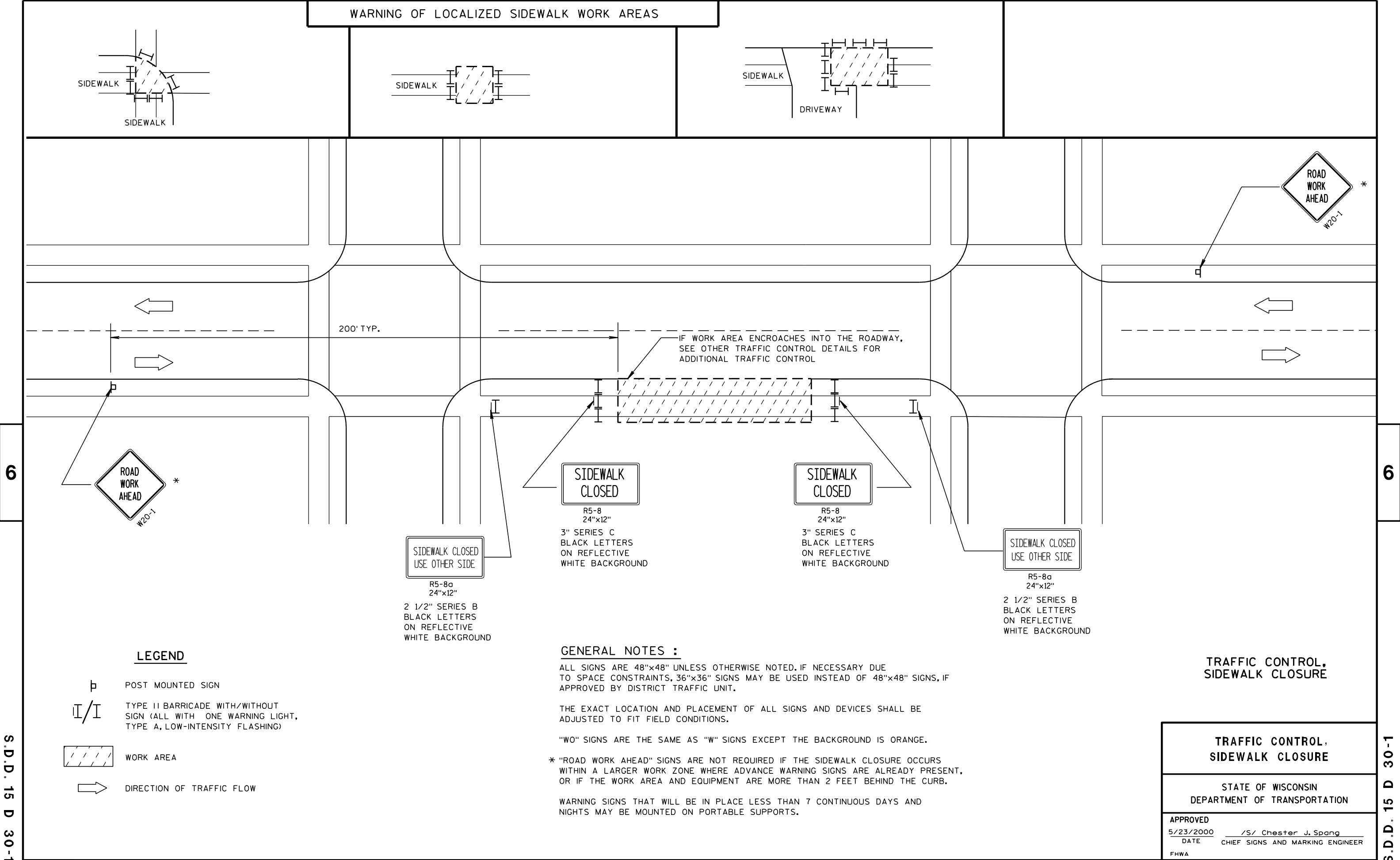
SYMBOLS

- WORK AREA
- DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL,
WORK ON SHOULDER OR
PARKING LANE,
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 /S/ Chester J. Spang
DATE CHIEF SIGNS AND MARKING ENGINEER
FHWA



6

S.D.D. 15 D 30-1

WARNING OF LOCALIZED SIDEWALK WORK AREAS

SIDEWALK

SIDEWALK

DRIVEWAY

200' TYP.

IF WORK AREA ENCROACHES INTO THE ROADWAY, SEE OTHER TRAFFIC CONTROL DETAILS FOR ADDITIONAL TRAFFIC CONTROL

ROAD WORK AHEAD W20-1 *

SIDEWALK CLOSED R5-8 24"x12" 3" SERIES C BLACK LETTERS ON REFLECTIVE WHITE BACKGROUND

SIDEWALK CLOSED R5-8 24"x12" 3" SERIES C BLACK LETTERS ON REFLECTIVE WHITE BACKGROUND

SIDEWALK CLOSED USE OTHER SIDE R5-8a 24"x12" 2 1/2" SERIES B BLACK LETTERS ON REFLECTIVE WHITE BACKGROUND

LEGEND

POST MOUNTED SIGN

TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)

WORK AREA

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

* "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

6

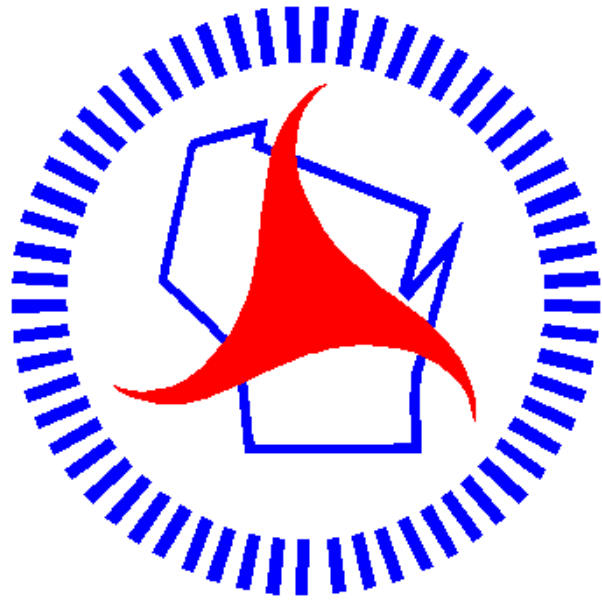
S.D.D. 15 D 30-1

TRAFFIC CONTROL, SIDEWALK CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2000 /S/ Chester J. Spang
DATE CHIEF SIGNS AND MARKING ENGINEER
FHWA

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>