WKE

DECEMBER 2019

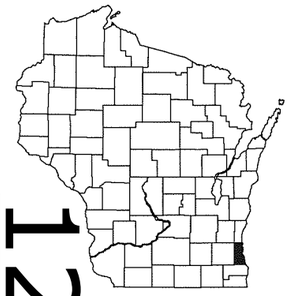
ORDER OF SHEETS

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	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 472

PROJECT ID: 2080-00-72

COUNTY: MILWAUKEE



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

NORTH TEUTONIA AVENUE

WEST GROELING AVENUE TO WEST CAPITOL DRIVE

LOCAL STREET

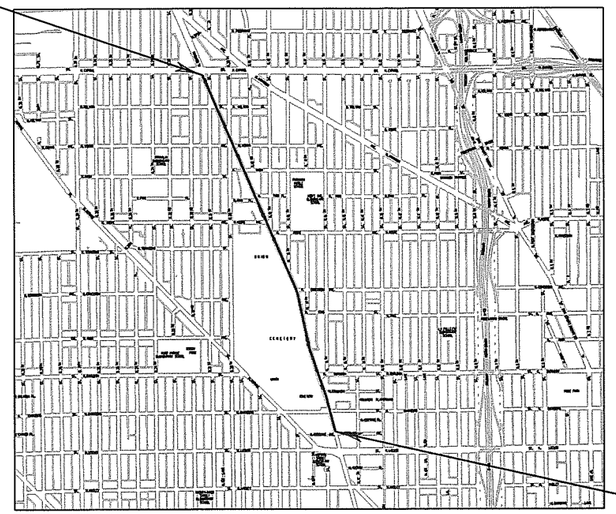
MILWAUKEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2080-00-72	WISC 2019738	1

STATE PROJECT NUMBER
2080-00-72

END PROJECT 2080-00-72
STA 216+21.33

R-22-E



N

T-7-N

BEGIN PROJECT 2080-00-72
STA 149+76.53
X=2552887.919
Y=397641.010

LAYOUT
SCALE 0 0.25 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.258 MI. (URBAN)

DESIGN DESIGNATION

A.A.D.T. 2016	=	12,600 - 14,300
A.A.D.T. 2039	=	14,000 - 15,900
D.H.V.	=	1,525 - 1,730
D.D.	=	59/41
T.	=	7.2%
DESIGN SPEED	=	35 MPH
ESALS	=	2,408,000 - 2,734,000

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- CITY UNDERGROUND CONDUIT — CUC
- ELECTRIC — E
- FIBER OPTIC — FO
- GAS — G
- SANITARY SEWER — SAN
- STORM SEWER — SS
- COMBINED SEWER — SSS
- TELEPHONE — T
- WATER — W
- UTILITY PLACED PER PLAN — XX(P)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), SOUTH ZONE, SEWRPC NAD 1927, CONVERTED TO GROUND. SCALE AND SEA LEVEL REDUCTION FACTOR = 0.99991464

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE CITY OF MILWAUKEE DATUM.

ACCEPTED FOR CITY OF MILWAUKEE
7/30/19 (Date) City Engineer

ORIGINAL PLANS PREPARED BY
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.751.7200

WISCONSIN NEAL STYKA E-43008-6 MILWAUKEE WI. PROFESSIONAL ENGINEER

31 July 2019 (Date) Neal Styka (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	Kapur & Associates, Inc
Designer	Kapur & Associates, Inc
Project Manager	Greg Hafeman
District Examiner	
District Supervisor	Jeff Bohen
C.O. Examiner	

APPROVED FOR DISTRICT OFFICE
DATE: 7/30/19 (Signature)

E

2

GENERAL NOTES

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.

ALL PRIVATE EXISTING UTILITIES NOT INCLUDED IN THE PLAN ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED. WATER VALVES WILL BE ADJUSTED AND PAID FOR AS A CONTRACT BID ITEM.

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 DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

COORDINATE WITH DIGGERS HOTLINE TO FIELD LOCATE UTILITIES. ANY UTILITIES DAMAGED DUE TO CONTRACTOR ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE UTILITY FACILITY.

THE EARTHWORK YARDAGE IS ESTIMATED BY EXPANDING THE FILL VOLUME. AN EXPANSION FACTOR OF 1.15 IS USED.

DISTURBED AREAS WITHIN RIGHT-OF-WAY OR TLE SHALL BE RESTORED IN KIND BY DIRECTION OF THE ENGINEER WITH THE FOLLOWING FINISHING ITEMS: 4" TOPSOIL AND SOD LAWN, 6" BASE AGGREGATE DENSE ¾-INCH, OR 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES OVER 6" BASE AGGREGATE DENSE 1¼-INCH. TOPSOIL SHALL BE APPLIED WITHIN 7 DAYS AFTER GRADING WORK IS COMPLETED. SOD SHALL BE APPLIED WITHIN 7 DAYS AFTER PLACEMENT OF TOPSOIL.

EROSION CONTROL DEVICES WILL BE PLACED IN SEQUENCE WITH CONSTRUCTION ACTIVITIES AS DETERMINED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY ENGINEER.

REMOVAL OF EROSION CONTROL DEVICES IS INCIDENTAL TO THE COST OF THEIR RESPECTIVE BID ITEMS.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES WILL BE FILLED WITH COMPACTED GRANULAR BACKFILL UNLESS REGULATIONS REQUIRE OTHERWISE. BACKFILL GRANULAR IS INCIDENTAL TO THE REMOVAL ITEM.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE LINE. CURB AND GUTTER RADII ARE MEASURED TO THE FACE.

CURB AND GUTTER JOINTS SHALL BE ALIGNED WITH CONCRETE PAVEMENT JOINTS.

1/2-INCH FELT EXPANSION JOINT MATERIAL IS REQUIRED BETWEEN BACK OF CURB AND FRONT OF WALK OR DRIVEWAY APRON.

EXISTING DRIVEWAYS WILL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES WILL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

CONTRACTOR TO INSTALL BUREAU OF ELECTRICAL SERVICES CONDUIT AND COMMUNICATIONS CONDUIT AS SHOWN ON THE PLAN.

LOCATION OF STRUCTURES IN CURB AND GUTTER REFER TO CURB AND GUTTER FLOW LINE. LOCATION OF STRUCTURES NOT IN CURB AND GUTTER SECTION REFER TO CENTER OF STRUCTURE OR AS NOTED ON PLAN.

RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET OR AT CENTER OF MANHOLE. SEE STRUCTURE LOCATION DETAIL.

USE MONOLITHIC CONCRETE SHIMMING AS SHOWN ON PLANS FOR FINAL ADJUSTMENT OF DRAINAGE STRUCTURES LOCATED WITHIN THE CONCRETE PAVEMENT, AND CONCRETE CURB AND GUTTER. IF THE ADJUSTMENT IS LESS THAN 4-INCHES, THE ENGINEER MAY CHOOSE TO DIRECT THE CONTRACTOR TO USE GRADE RINGS FOR ADJUSTMENTS FOR STORM SEWER STRUCTURES.

PLAN LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND IS USED FOR ESTIMATING. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE AND IS USED TO COMPUTE PIPE SLOPE.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES AND PIPES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS PRIOR TO ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS PRIOR TO INSTALLING THE PROPOSED STORM SEWER.

SEE REMOVAL PLANS FOR REMOVAL OF EXISTING STORM SEWER SYSTEM.

ALL DRAINAGE STRUCTURES, EXISTING OR PROPOSED, SUBJECT TO TRAFFIC LOADING SHALL HAVE NON-ROCKING COVERS AS DIRECTED BY THE ENGINEER IN THE FIELD. COST INCIDENTAL TO NEW COVER ON PROPOSED STRUCTURE.

PROVIDE TEMPORARY POSITIVE DRAINAGE THROUGHOUT THE PROJECT DURING ALL PROJECT STAGES. PROVIDING TEMPORARY POSITIVE DRAINAGE IS INCIDENTAL TO CONSTRUCTION.

SUPPORTING UTILITIES DURING STORM SEWER CONSTRUCTION IS INCIDENTAL TO STORM SEWER PIPE AND/OR STORM SEWER STRUCTURE. NO SEPERATE PAYMENTS WILL BE MADE.

CONSTRUCTION AND REMOVAL OF TEMPORARY BULKHEAD IS CONSIDERED INCIDENTAL TO COST OF STORM SEWER PIPE OR STORM SEWER STRUCTURE WHEN A PIPE OR STRUCTURE IS CONSTRUCTED OR REMOVED IN MULTIPLE STAGES.

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

UTILITY/AGENCY CONTACTS

AMERICAN TRANSMISSION COMPANY- FIELD CONTACT
RON LATUS
262-364-9048 (MOBILE)
262-832-8688 (OFFICE)
RLATUS@ATCLLC.COM
W234 N2000 RIDGEVIEW PKWY
WAUKESHA, WI 53187

AT&T WISCONSIN - COMMUNICATIONS LINE
JAY BULANEK
262-896-7669
JB5175@ATT.COM
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188-2443

CITY OF MILWAUKEE - SEWER
ZAFAR YOUSUF
414-286-2467
ZYOUSU@MILWAUKEE.GOV
841 N. BROADWAY STREET
MILWAUKEE, WI 53202

CITY OF MILWAUKEE - STREET LIGHTING
DENNIS MILLER
414-286-5942
DENNIS.MILLER@MILWAUKEE.GOV
1540 W. CANAL ST.
MILWAUKEE, WI 53233

CITY OF MILWAUKEE - SIGNALS
JOSEPH BLAKEMAN
414-286-8070
JCBLAKE@MILWAUKEE.GOV
841 N. BROADWAY STREET
MILWAUKEE, WI 53202

CITY OF MILWAUKEE - UTILITY COORDINATION
MOHAMMED O. ABULUGHOD
414-286-2767
MABULUE@MILWAUKEE.GOV
841 N. BROADWAY STREET, RM 710
MILWAUKEE, WI 53202

CITY OF MILWAUKEE - WATER
TOM MOORE
414-286-2421
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841 N. BROADWAY STREET
MILWAUKEE, WI 53202

CITY OF MILWAUKEE - COMMUNICATIONS
KAREN ROGNEY
414-286-3243
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841 N. BROADWAY STREET
MILWAUKEE, WI 53202

CITY OF MILWAUKEE - FORESTRY
JAMES KRINGER
414-708-2428
JAMES.KRINGER@MILWAUKEE.GOV
841 N. BROADWAY STREET
MILWAUKEE, WI 53202

CHARTER COMMUNICATIONS - COMMUNICATION LINE
STEVEN CRAMER
414-277-4045
STEVE.CRAMER@CHARTER.COM
1320 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212-4002

WE ENERGIES - GAS, ELECTRIC
DAN SANDE
414-221-4578
DAN.SANDE@WE-ENERGIES.COM
333 WEST EVERETT ST., ROOM A299
MILWAUKEE, WI 53203

WE ENERGIES - FIELD CONTACT ELECTRIC
KEN FRANECKI
414-944-5531
KENNETH.FRANECKI@WE-ENERGIES.COM
500 S. 116TH ST.
WEST ALLIS, WI 53214

UTILITY/AGENCY CONTACTS - CONTINUED

WE ENERGIES - FIELD CONTACT GAS
BOB SWEIGART
414-935-4438
ROBERT.SWEIGART@DAARCORP.COM
500 S. 116TH ST.
WEST ALLIS, WI 53214

OTHER CONTACTS

MILWAUKEE COUNTY TRANSIT SYSTEM,
BUS STOP PLANNER
ANDY TILLMAN
414-343-1728
ATILLMAN@MCTS.COM
1942 N. 17TH ST.
MILWAUKEE, WI 53205

MILWAUKEE COUNTY TRANSIT SYSTEM,
COORDINATOR OF STREET SUPERVISION
MELANIE FLYNN
414-343-1764
MFLYNN@MCTS.COM
1942 N. 17TH ST.
MILWAUKEE, WI 53205

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
MICKI KLAPPA-SULLIVAN
414-225-2187
MKLAPPASULLIVAN@MMSD.COM
260 W. SEEBOTH ST.
MILWAUKEE, WI 53204

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT FIELD CONTACT
LARRY ANDERSON
414-225-2241
260 W. SEEBOTH ST.
MILWAUKEE, WI 53204

WISCONSIN DEPT. OF NATURAL RESOURCES
KRISTINA BETZOLD
414-263-8517
KRISTINA.BETZOLD@WISCONSIN.GOV
2300 N DR. MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212

KAPUR & ASSOCIATES
KURT FARRENKOPF
414-751-7226
KFARRENKOPF@KAPUR-ASSOC.COM
7711 N. PORT WASHINGTON ROAD
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CITY OF MILWAUKEE
NICK GOODWIN, PE
414-286-0461
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MILWAUKEE, WI 53202

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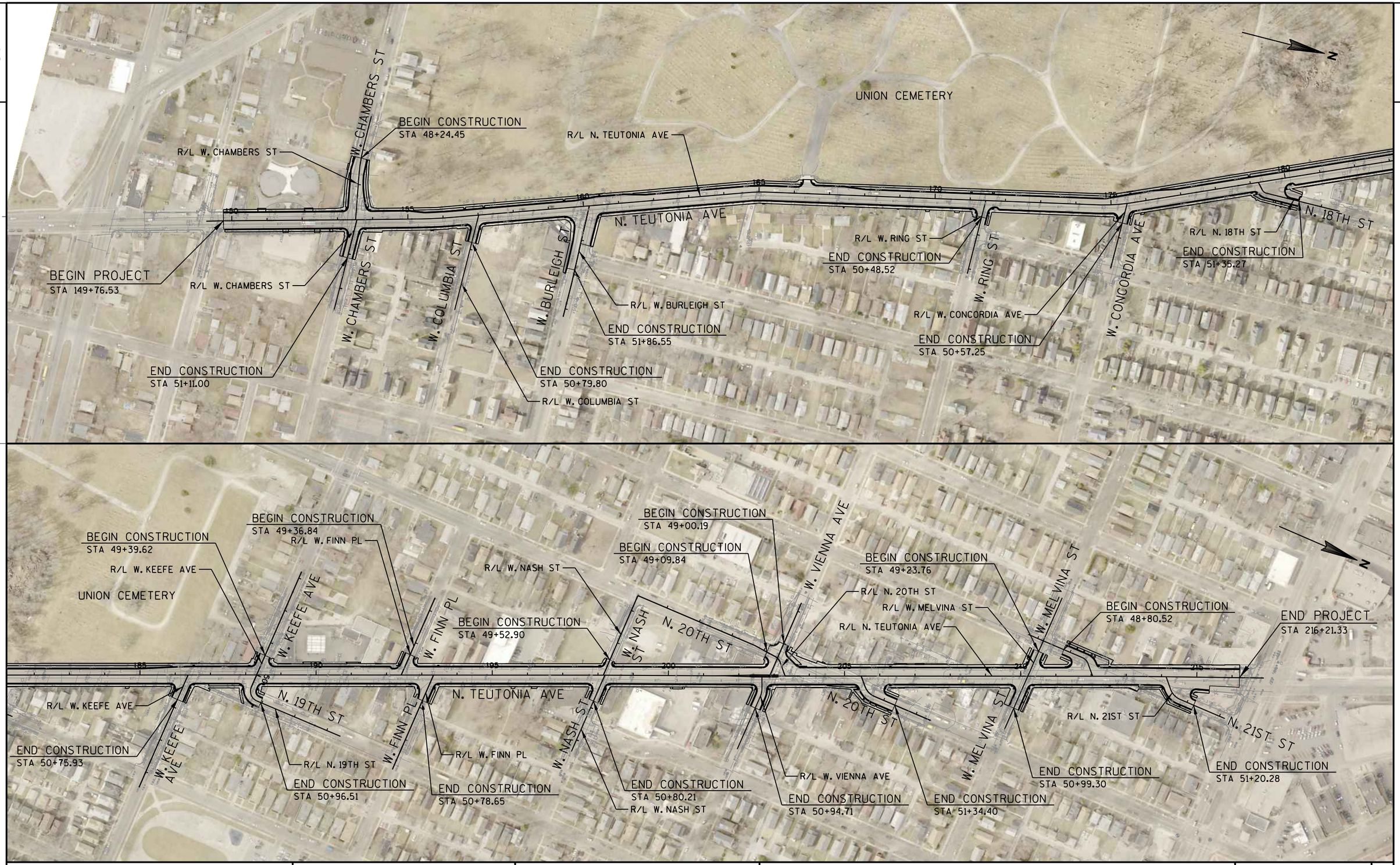
STORM SEWER
CUC PLAN
PLANTING - LANDSCAPING
LIGHTING PLANS
TRAFFIC SIGNAL PLANS
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT PLAN

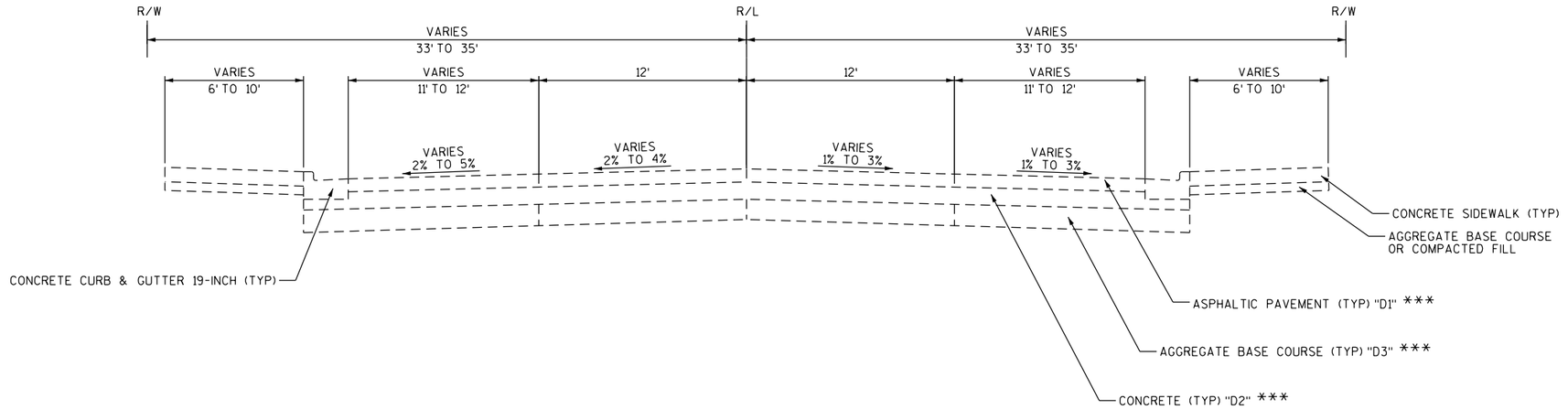
STANDARD ABBREVIATIONS

<	ANGLE
ADT	AVERAGE DAILY TRAFFIC
AC	ACRE
AE, AEW	APRON ENDWALL
AGG	AGGREGATE
AH	AHEAD
ASPH	ASPHALTIC
BC	BACK OF CURB
BF	BACK FACE
BIT	EXISTING BITUMINOUS
BM	BENCH MARK
BEG	BEGIN
BK	BACK
C & G	CURB AND GUTTER
CABC	CRUSHED AGGREGATE BASE COURSE
CB	CATCH BASIN
CMCP	CORRUGATED METAL CULVERT PIPE
CMP	CORRUGATED METAL PIPE
CP	CULVERT PIPE
CY	CUBIC YARD
CL OR C/L	CENTER LINE
CO	COUNTY
CONC	CONCRETE
CONST	CONSTRUCTION
CR	CREEK
CSO	COMBINED SEWER OVERFLOW
CTH	COUNTY TRUNK HIGHWAY
CWT	HUNDRED WEIGHT
D	DEGREE OF CURVE
△	DELTA
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DISCH	DISCHARGE
E	EAST
EA	EACH
EB	EASTBOUND
EBS	EXCAVATION BELOW SUBGRADE
EL, ELEV	ELEVATION
ELEC	ELECTRIC(AL), ELEC CABLE
EMB	EMBANKMENT
ESALS	EQUIVALENT SINGLE AXEL LOADS
ESMT	EASEMENT
EW	ENDWALL
EXC	EXCAVATION
EXIST	EXISTING BITUMINOUS
EXP	EXPANSION
FC	FACE OF CURB
FE	FIELD ENTRANCE
FF	FACE TO FACE
F/L, FL	FLOW LINE
FERT	FERTILIZER
FHWA	FEDERAL HIGHWAY
FT	FOOT (FEET)
G	GAS
GN	GRID NORTH
H	HOUSE
HMA	HOT MIX ASPHALT
HP	HIGH POINT
HR	HANDICAP RAMP
HYD	HYDRANT
I	INTERSECTION ANGLE
ID	INSIDE DIAMETER
INL	INLET
INTER	INTERSECTION
INV	INVERT
IP	IRON PIPE
JT	JOINT
K	RATE OF VERTICAL CURVATURE
L	LENGTH OF CURVE
LB	POUND
LC	LONG CHORD OF CURVE
LP	LOW POINT
LF	LINEAR FOOT(FEET)
LHF	LEFT HAND FORWARD
LS	LUMP SUM
LT	LEFT
M	MARSH
MATL	MATERIAL
MP	MARKER POST
MAX	MAXIMUM
MGAL	1000 GALLONS
MH	MANHOLE
MIN	MINIMUM
ML OR M/L	MATCH LINE
N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN OR NO CHANGE
NO	NUMBER
NW OR N/W	NORMAL WATER
OBLIT	OBLITERATE
OD	OUTSIDE DIAMETER
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PLE	PERMANENT LIMITED EASEMENT
PRC	POINT OF REVERSE CURVE
PROJ	PROJECT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PAV'T	PAVEMENT
PCC	PORTLAND CEMENT CONCRETE
R	RADIUS OR RANGE
RC	REVERSE CURVE
RCCP	REINFORCED CONCRETE CULVERT PIPE
RCHECP	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE
RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
RHF	RIGHT HAND FORWARD
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RD	ROAD
RDWY	ROADWAY
REL	RELOCATE
REM	REMAINING
REQD	REQUIRED
RO	RUN OFF LENGTH
RT	RIGHT
RW	RETAINING WALL
S	SOUTH
SALV	SALVAGED
SAN/SA	SANITARY
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWINGS
SE	SUPERELEVATION
SEC	SECTION
SF	SQUARE FOOT (FEET)
S/L	SURVEY LINE
SHLDR	SHOULDER(S)
SHR	SHRINKAGE
SPECS	SPECIFICATIONS
SS	STORM SEWER
STA	STATION
STH	STATE TRUNK HIGHWAY
STR	STRUCTURE
SW	SIDEWALK
SY	SQUARE YARD
TAN	TANGENT
TEL	TELEPHONE
T	(TRUCKS) PERCENT OF
TC	TOP OF CURB
TAN	TANGENT
TEMP	TEMPORARY
TL OR T/L	TRANSIT LINE
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
UG	UNDERGROUND (CABLE)
UNCL	UNCLASSIFIED
VAR	VARIABLE
VCL	VERTICAL CURVE LENGTH
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVE
VPT	VERTICAL POINT OF TANGENCY
VLV	VALVE
VOL	VOLUME
W	WEST
WB	WESTBOUND
WV	WATER VALVE
X	EASTING OR EAST GRID COORDINATE
Y	NORTHING OR NORTH GRID COORDINATE
YD	YARD

2

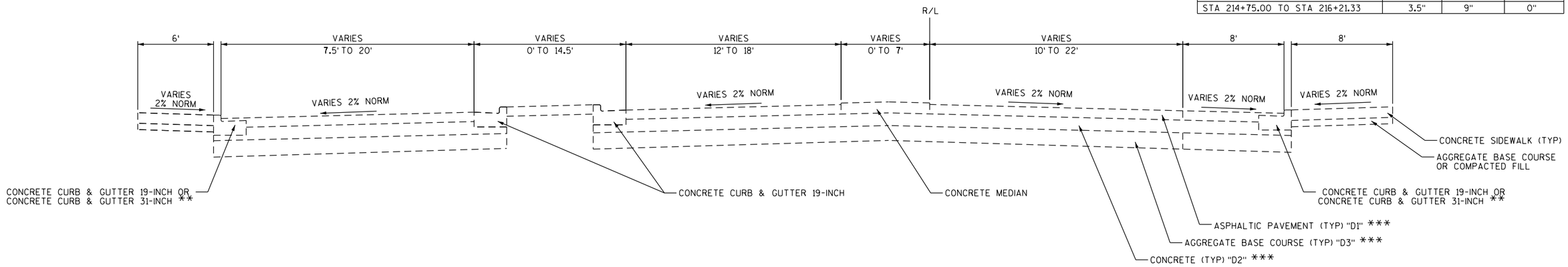


PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 4	E



TYPICAL EXISTING SECTION
N. TEUTONIA AVE
STA 149+76.53 STA 216+21.33

STA TO STA	DEPTH "D1"	DEPTH "D2"	DEPTH "D3"
STA 149+76.53 TO STA 154+50.00	4"	3.5"	0"
STA 154+50.00 TO STA 156+50.00	3"	9"	0"
STA 156+50.00 TO STA 159+50.00	3.5"	7.5"	3"
STA 159+50.00 TO STA 163+00.00	3"	6.5"	4"
STA 163+00.00 TO STA 167+00.00	4"	8"	0"
STA 167+00.00 TO STA 170+00.00	3"	9.5"	4"
STA 170+00.00 TO STA 173+00.00	3"	6"	0"
STA 173+00.00 TO STA 176+50.00	4"	8"	5"
STA 176+50.00 TO STA 179+50.00	4"	8"	3"
STA 179+50.00 TO STA 182+00.00	3"	5"	1"
STA 182+00.00 TO STA 185+50.00	3.5"	8"	0"
STA 185+50.00 TO STA 189+50.00	4"	7"	0"
STA 189+50.00 TO STA 192+00.00	3"	2"	7"
STA 192+00.00 TO STA 195+50.00	4"	8"	0"
STA 195+50.00 TO STA 199+25.00	4"	6"	0"
STA 199+25.00 TO STA 202+00.00	3"	8.5"	4"
STA 202+00.00 TO STA 204+25.00	3"	8"	0"
STA 204+25.00 TO STA 206+75.00	4"	8"	0"
STA 206+75.00 TO STA 209+50.00	3"	9"	0"
STA 209+50.00 TO STA 211+50.00	3.5"	8"	0"
STA 211+50.00 TO STA 214+75.00	3"	8.5"	9"
STA 214+75.00 TO STA 216+21.33	3.5"	9"	0"



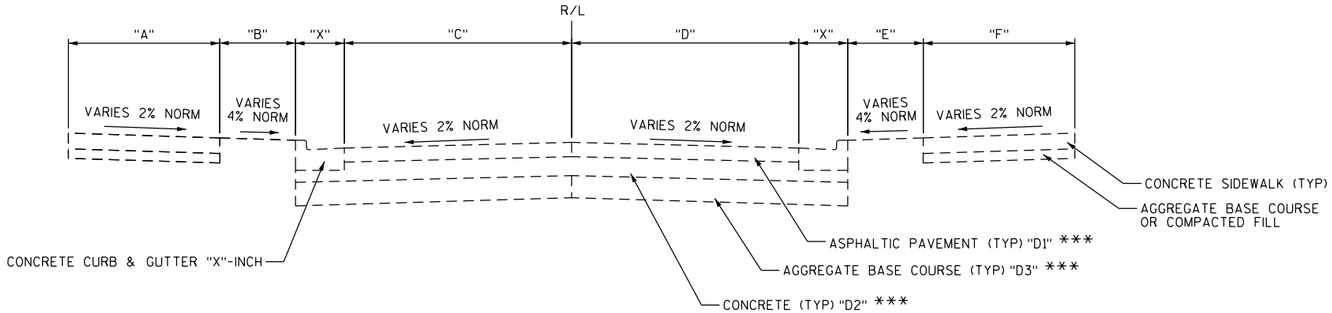
TYPICAL EXISTING SECTION
W. CHAMBERS ST (WEST)
STA 49+24.45 - STA 49+76.92

NOTE:
** = CURB WIDTH NOT AVAILABLE DUE TO ASPHALTIC OVERLAY OF GUTTER PAN.
*** = SIDEROADS ASSUMED TO MATCH MAINLINE PAVEMENT STRUCTURE AT INTERCECTIONS.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 5	E

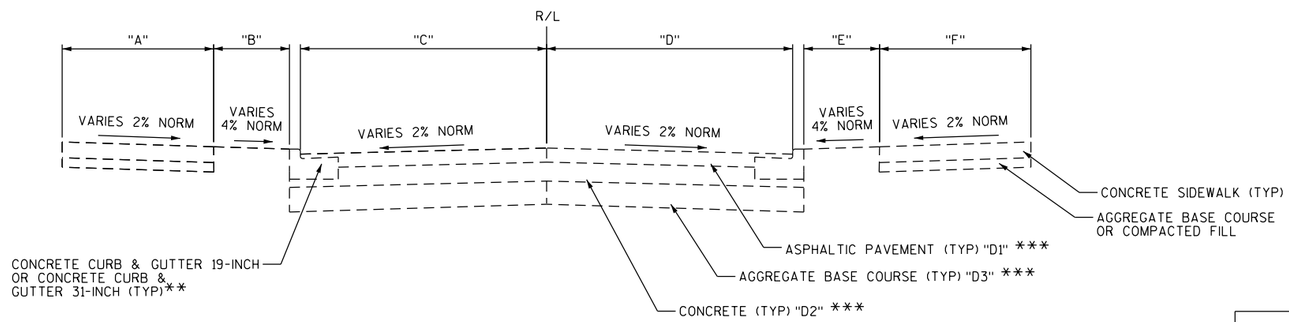
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\020301_TS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : NTS

WISDOT/CADDS SHEET 42



TYPICAL EXISTING SECTION
SIDE ROADS

W. CHAMBERS ST (EAST) STA 50+23.77 - STA 51+11.00
W. RING ST STA 50+23.52 - STA 50+48.52
W. CONCORDIA AVE STA 50+24.66 - STA 50+57.25
N. 18TH ST STA 50+24.21 - STA 51+35.27
W. KEEFE AVE (EAST) STA 50+25.10 - STA 50+75.93
W. KEEFE AVE (WEST) STA 49+39.62 - STA 49+74.91
W. FINN PL (WEST) STA 49+36.84 - STA 49+74.90
W. NASH ST (WEST) STA 49+52.90 - STA 49+74.98
W. NASH ST (EAST) STA 50+25.10 - STA 50+80.21
W. VIENNA AVE (EAST) STA 50+23.00 - STA 50+94.71
W. VIENNA AVE (WEST) STA 49+00.19 - STA 49+74.93
N. 20TH ST (WEST) STA 49+09.84 - STA 49+44.79
N. 20TH ST (EAST STA 50+24.48 - STA 51+34.40



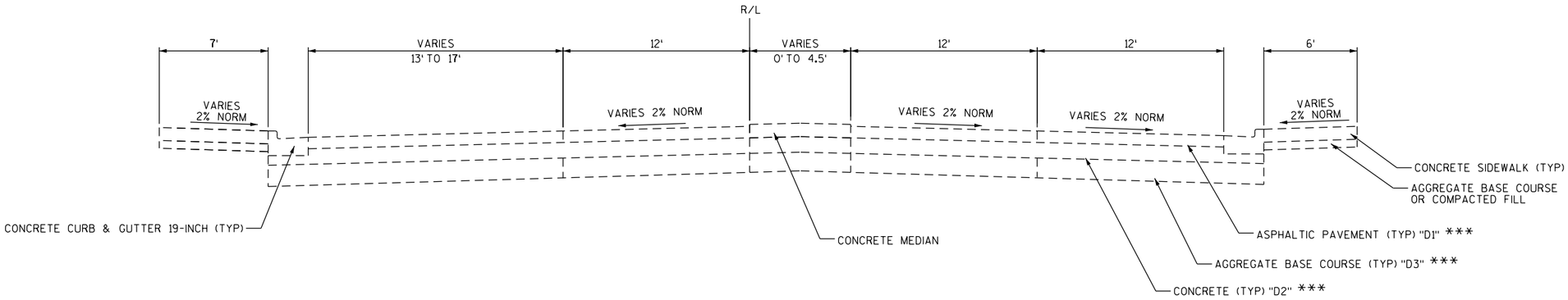
TYPICAL EXISTING SECTION
SIDE ROADS

W. COLUMBIA ST STA 50+24.33 - STA 50+79.80
N. 19TH ST STA 50+25.09 - STA 50+96.51
W. FINN PL (EAST) STA 50+25.09 - STA 50+78.65
W. MELVINA ST (WEST) STA 49+23.76 - STA 49+74.90
W. MELVINA ST (EAST) STA 50+25.11 - STA 50+99.30
N. 21ST ST (WEST) STA 48+80.52 - STA 49+75.52
N. 21ST ST (EAST) STA 50+24.58 - STA 51+20.28

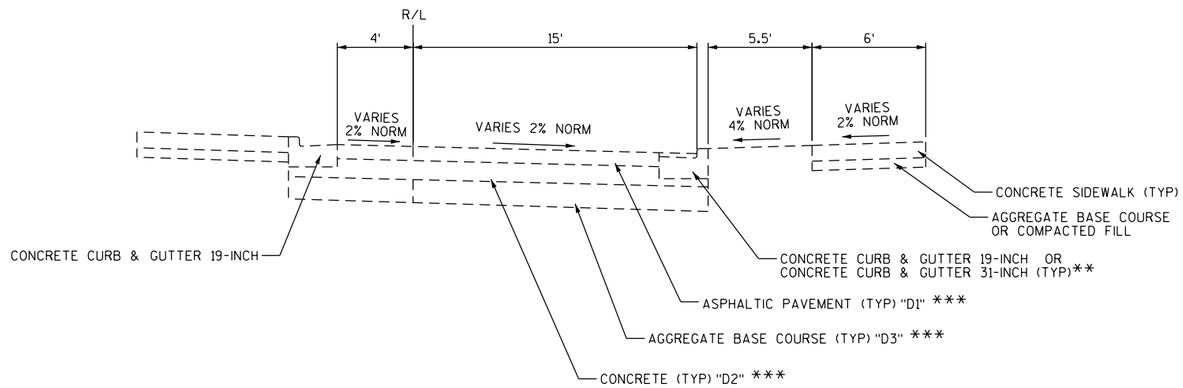
STEET NAME	DIMENSIONS						
	"A"	"B"	"C"	"D"	"E"	"F"	"X"
W. CHAMBERS ST (EAST)	7.0'	0.0'	13.0'	13.0'	0.0'	10.0'	31
W. COLUMBIA ST	4.0'	2.0'	12.0'	12.0'	2.0'	4.0'	--
W. RING ST	5.0'	4.0'	13.0'	13.0'	0.0'	9.0'	31
W. CONCORDIA AVE	5.0'	5.5'	13.0'	13.0'	5.0'	5.0'	31
N. 18TH ST	6.0'	5.0'	13.0'	13.0'	5.0'	6.0'	31
W. KEEFE AVE (EAST)	5.5'	3.0'	16.0'	16.0'	4.0'	5.0'	31
N. 19TH ST	6.0'	7.0'	15.0'	15.0'	6.0'	6.0'	--
W. KEEFE AVE (WEST)	5.0'	6.0'	14.0'	14.0'	5.5'	5.0'	31
W. FINN PL (WEST)	5.5'	4.5'	13.0'	13.0'	4.0'	6.0'	31
W. FINN PL (EAST)	6.0'	6.0'	15.0'	15.0'	6.0'	6.0'	--
W. NASH ST (WEST)	4.5'	0.0'	9.0'	9.0'	0.0'	4.0'	19
W. NASH ST (EAST)	6.0'	5.0'	13.0'	13.0'	6.5'	6.0'	19
W. VIENNA AVE (EAST)	6.0'	7.0'	13.5'	13.5'	6.0'	6.0'	19
W. VIENNA AVE (WEST)	6.5'	6.0'	13.0'	13.0'	6.0'	6.0'	31
N. 20TH ST (SOUTH)	6.0'	3.5'	17.0'	17.0'	2.0'	6.0'	--
N. 20TH ST (NORTH)	6.0'	5.5'	17.0'	17.0'	5.0'	6.0'	--
W. MELVINA ST (WEST)	6.0'	6.5'	13.0'	13.0'	6.0'	6.0'	--
W. MELVINA ST (EAST)	5.5'	5.0'	15.0'	15.0'	6.0'	6.0'	--
N. 21ST ST (SOUTH)	6.0'	6.0'	15.0'	15.0'	6.5'	6.0'	--
N. 21ST ST (NORTH)	6.0'	6.0'	15.0'	15.0'	5.0'	5.0'	--

NOTE:
** = CURB WIDTH NOT AVAILABLE DUE TO ASPHALTIC OVERLAY OF GUTTER PAN.
*** = SIDEROADS ASSUMED TO MATCH MAINLINE PAVEMENT STRUCTURE AT INTERCECTIONS.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 6	E



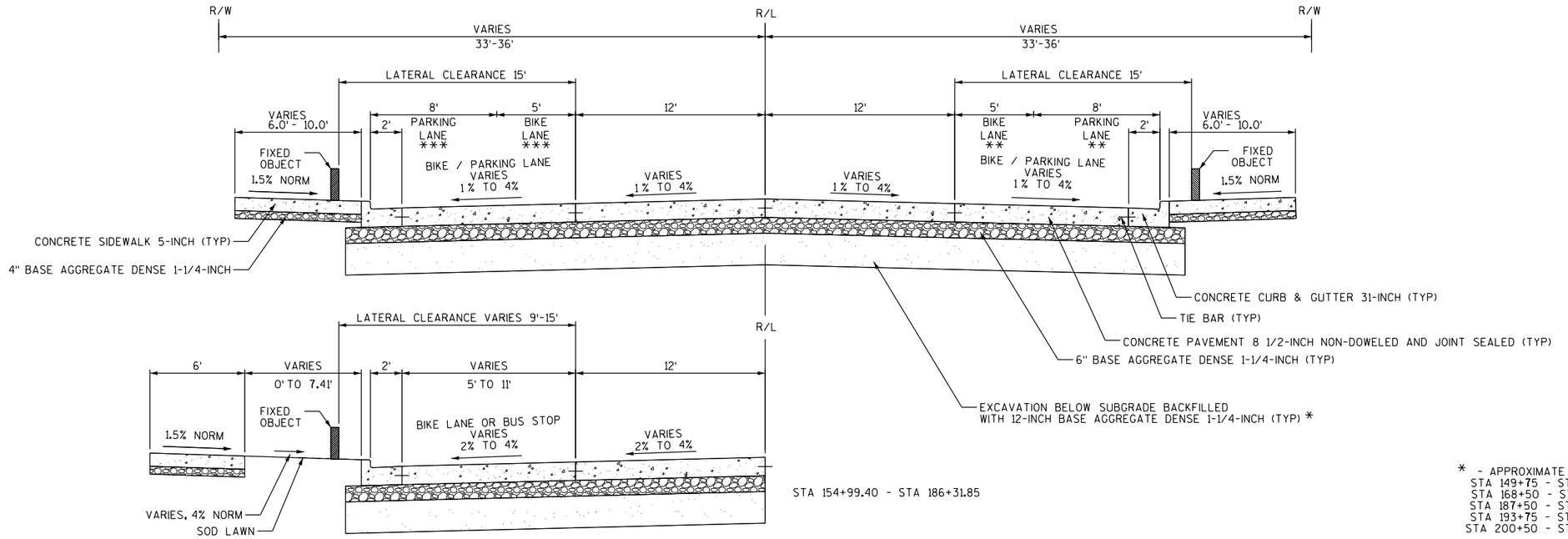
TYPICAL EXISTING SECTION
W. BURLEIGH ST
STA 50+24.13 - STA 51+86.55



TYPICAL EXISTING SECTION
N. 19TH ST
STA 50+25.09 - STA 50+96.51

NOTE:
** = CURB WIDTH NOT AVAILABLE DUE TO ASPHALTIC OVERLAY OF GUTTER PAN.
*** = SIDEROADS ASSUMED TO MATCH MAINLINE PAVEMENT STRUCTURE AT INTERCECTIONS.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 7	E



STA 154+99.40 - STA 186+31.85

TYPICAL FINISHED SECTION

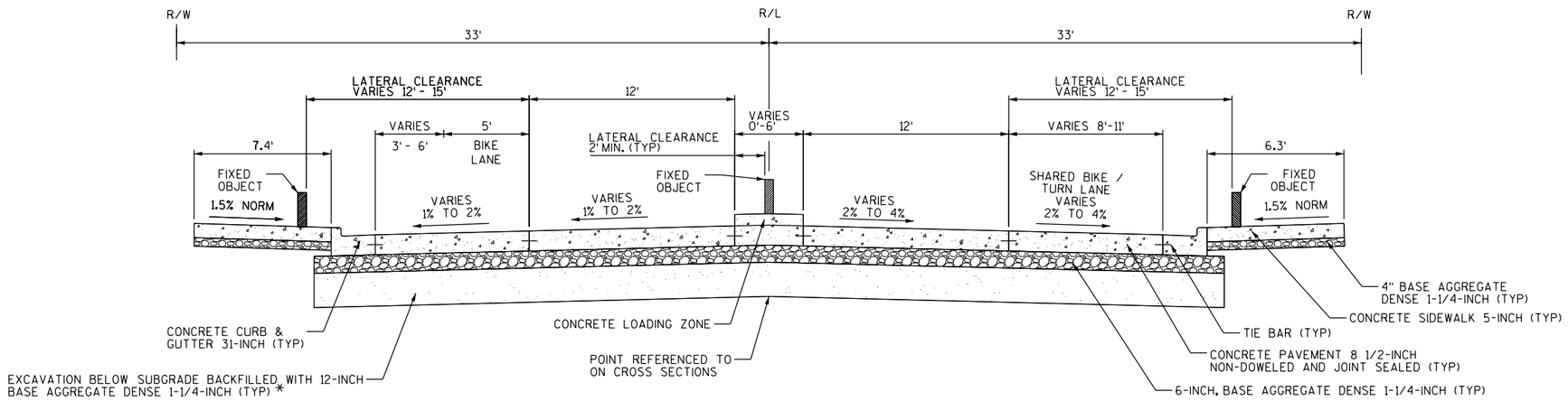
N. TEUTONIA AVE

STA 149+76.53 - STA 202+31.40

* - APPROXIMATE EBS LIMITS:
STA 149+75 - STA 152+75
STA 168+50 - STA 171+50
STA 187+50 - STA 190+75
STA 193+75 - STA 197+50
STA 200+50 - STA 203+00

** - RIGHT TURN LANE STA 152+03.39 TO STA 153+03.39 RT
BUS STOP STA 156+10.23 TO STA 156+60.23 RT
RIGHT TURN LANE STA 158+02.12 TO STA 159+39.91 RT
RIGHT TURN LANE 170+50.00 TO STA 171+00.00 RT
BUS STOP STA 174+06.87 TO STA 175+06.87 RT
RIGHT TURN LANE STA 178+47.18 TO STA 178+97.18 RT
BUS STOP STA 185+06.44 TO STA 185+86.44 RT
BUS STOP STA 191+89.19 TO STA 192+69.19 RT
BUS STOP STA 197+01.03 TO STA 198+81.03 RT

*** - BUS STOP/RIGHT TURN LANE STA 153+99.40 TO STA 154+99.40 LT
BUS STOP STA 188+70.26 TO STAA 189+50.26 LT



TYPICAL FINISHED SECTION

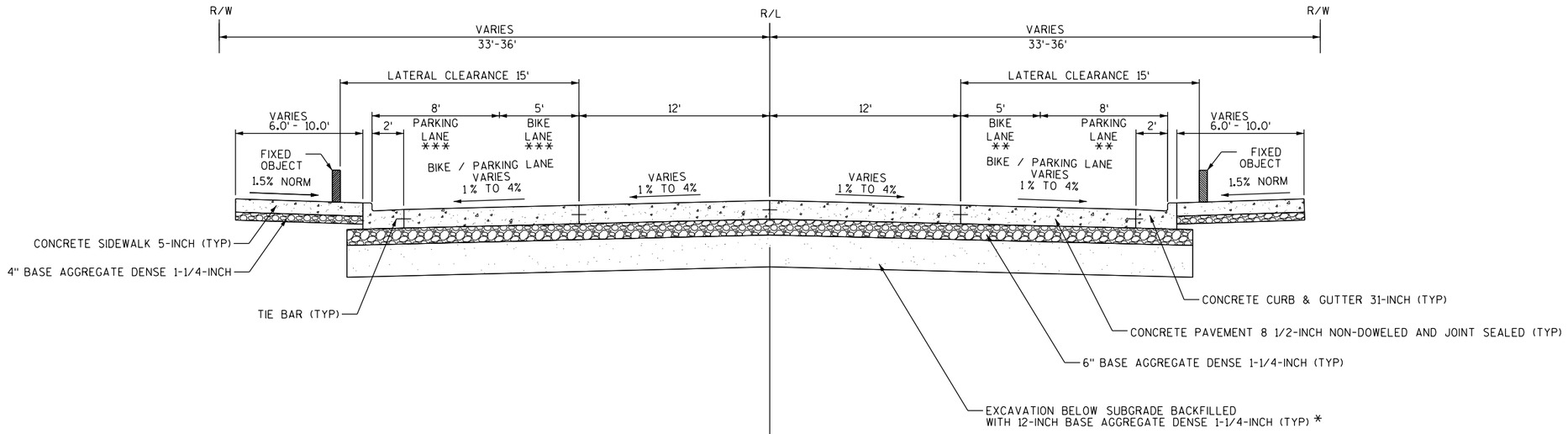
N. TEUTONIA AVE

STA 202+31.40 - STA 203+13.17

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TYPICAL FINISHED SECTION	SHEET 8	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\020302_TS.dgn PLOT DATE : 10/3/2019 PLOT BY : nstyka PLOT NAME : PLOT SCALE : NTS

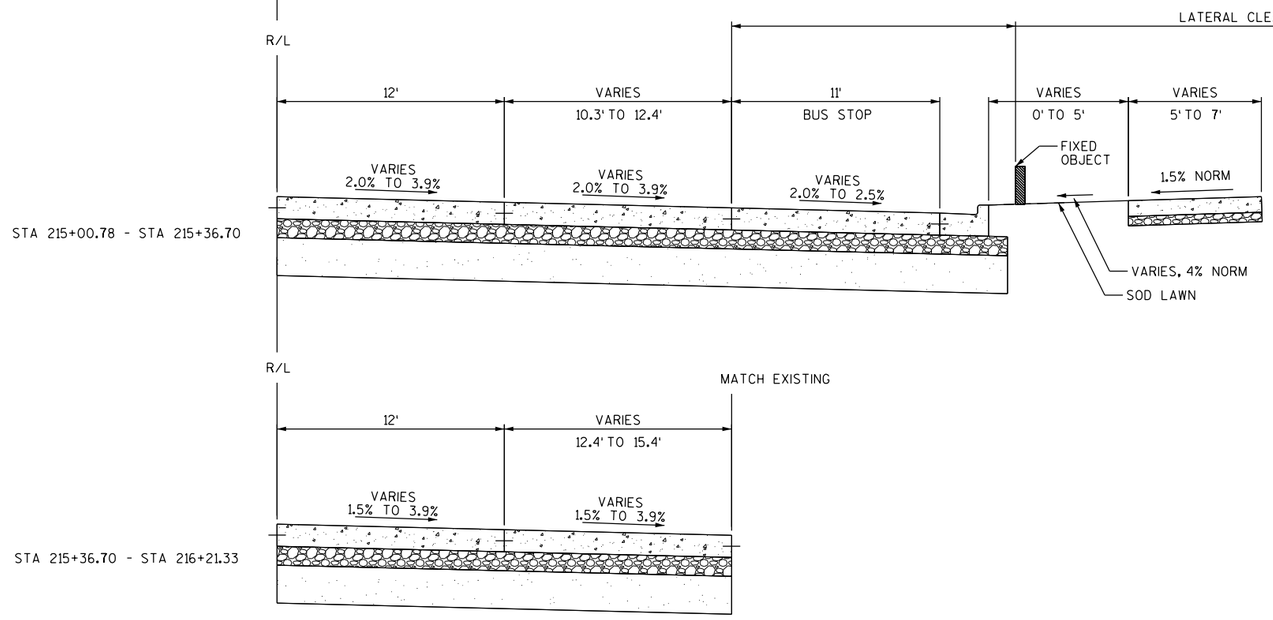
WISDOT/CADDS SHEET 42



* - APPROXIMATE EBS LIMITS:
STA 200+50 - STA 203+00

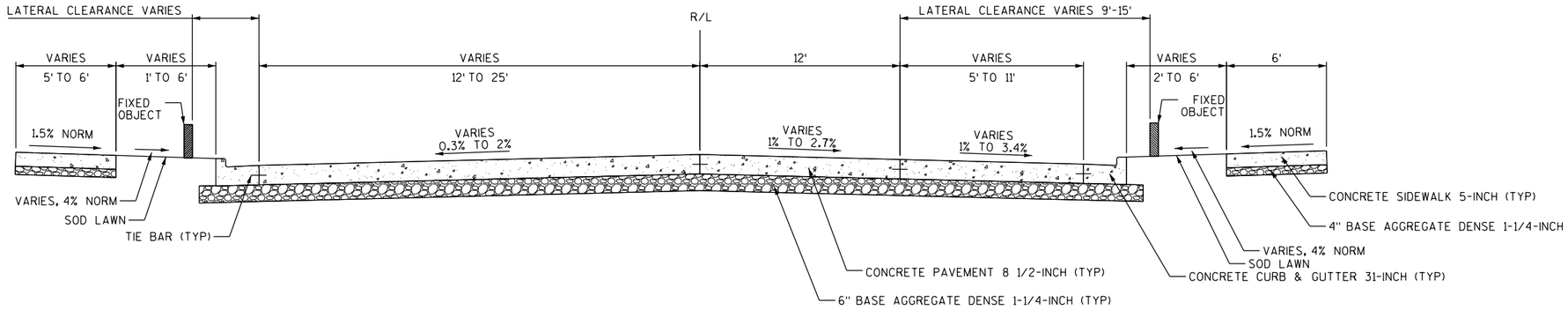
** - RIGHT TURN LANE STA 203+10.18 TO STA 205+06.10 RT
BUS STOP STA 208+98.66 TO STA 209+78.66 RT
BUS STOP STA 211+69.39 TO STA 212+49.39 RT

*** - RIGHT TURN LANE STA 203+91.06 TO STA 207+16.99 LT
BUS STOP STA 210+56.48 TO STA 211+36.48

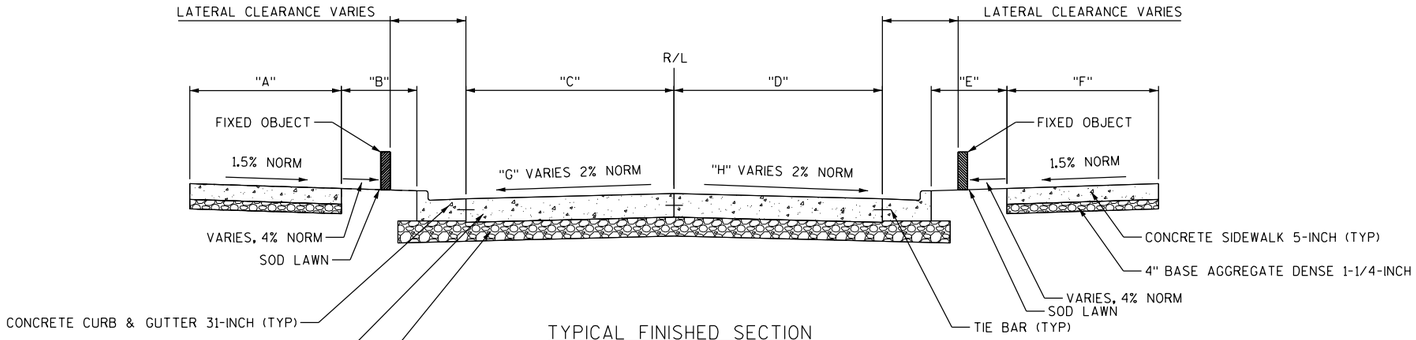


TYPICAL FINISHED SECTION
N. TEUTONIA AVE
STA 203+13.17 - STA 216+21.33

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TYPICAL FINISHED SECTION	SHEET 9	E



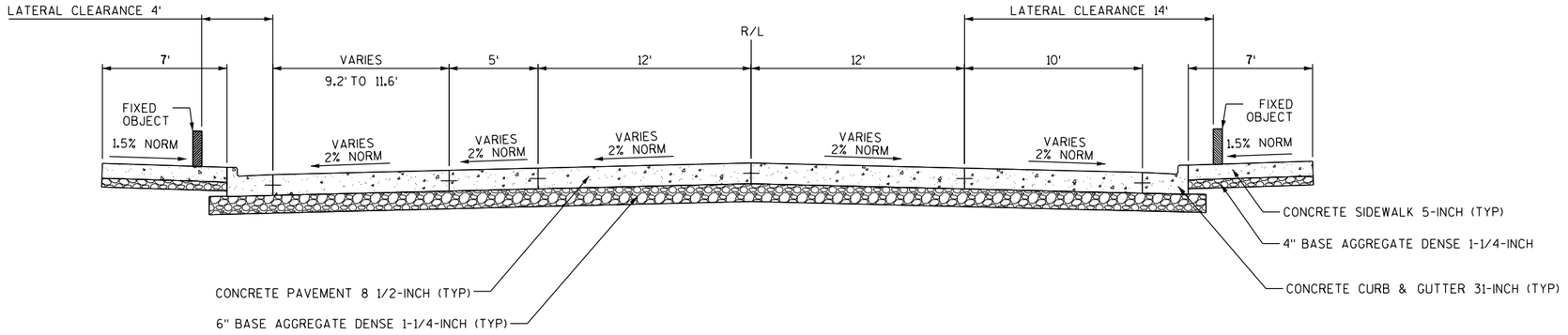
TYPICAL FINISHED SECTION
W. CHAMBERS ST (WEST)
STA 48+24.45 - STA 49+76.92



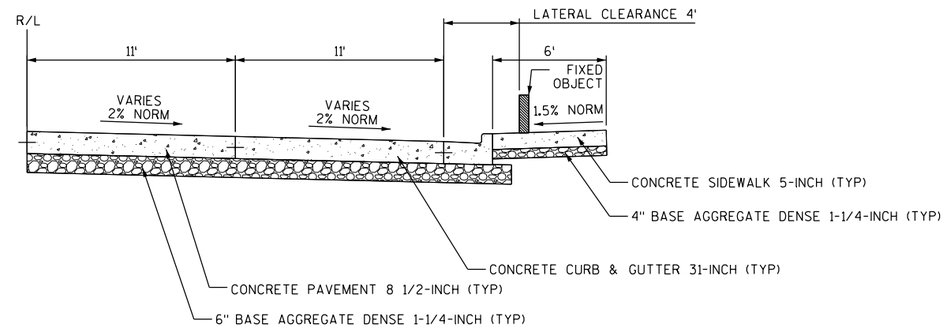
TYPICAL FINISHED SECTION
SIDE ROADS

W. CHAMBERS ST (EAST) STA 50+23.77 - STA 51+11.00
W. COLUMBIA ST STA 50+24.33 - STA 50+79.80
W. RING ST STA 50+23.52 - STA 50+48.52
W. CONCORDIA AVE STA 50+24.66 - STA 50+57.25
N. 18TH ST STA 50+24.21 - STA 51+35.27
W. KEEFE AVE (EAST) STA 50+25.10 - STA 50+75.93
N. 19TH ST STA 50+25.09 - STA 50+96.51
W. KEEFE AVE (WEST) STA 49+39.62 - STA 49+74.91
W. FINN PL (WEST) STA 49+36.84 - STA 49+74.90
W. FINN PL (EAST) STA 50+25.09 - STA 50+78.65
W. NASH ST (WEST) STA 49+52.90 - STA 49+74.98
W. NASH ST (EAST) STA 50+25.10 - STA 50+80.21
W. VIENNA AVE (EAST) STA 50+23.00 - STA 50+94.71
W. VIENNA AVE (WEST) STA 49+00.19 - STA 49+74.93
N. 20TH ST (WEST) STA 49+09.84 - STA 49+44.79
N. 20TH ST (EAST STA 50+24.48 - STA 51+34.40
W. MELVINA ST (WEST) STA 49+23.76 - STA 49+74.90
W. MELVINA ST (EAST) STA 50+25.11 - STA 50+99.30
N. 21ST ST (WEST) STA 48+80.52 - STA 49+75.52
N. 21ST ST (EAST) STA 50+24.58 - STA 51+20.28

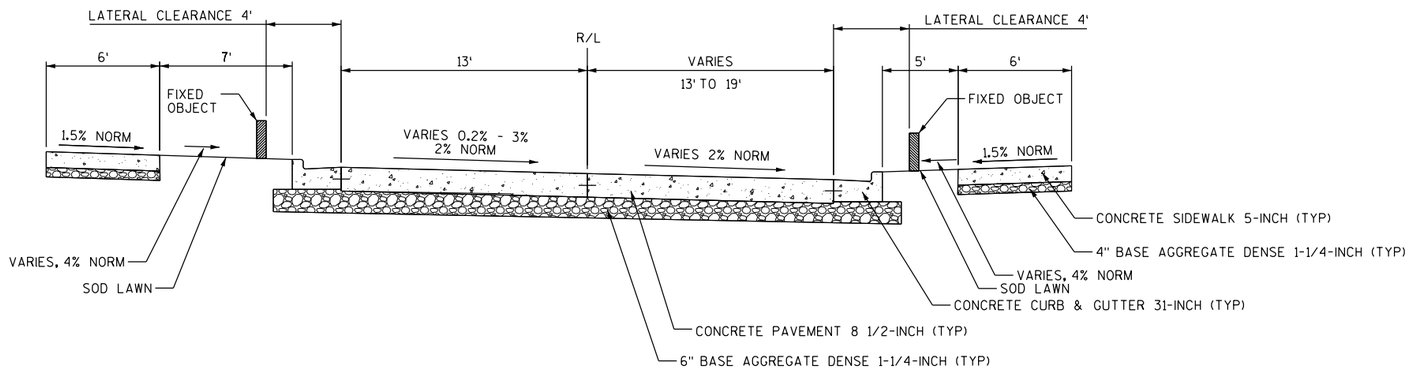
STEET NAME	DIMENSIONS							
	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
W. CHAMBERS ST (EAST)	7.0'	0.0'	13.0'	13.0'	0.0'	10.0'	0.3% TO 2%	1% TO 3.4%
W. COLUMBIA ST	6.0'	0.0'	10.0'	10.0'	0.0'	6.0'	1.5% TO 2.5%	1.5% TO 2.5%
W. RING ST	5.0'	4.0'	13.0'	13.0'	0.0'	9.0'	0.3% TO 2.2%	4.5%
W. CONCORDIA AVE	5.0'	5.5'	13.0'	13.0'	0.0'	10.0'	0.4% TO 3.2%	1.5% TO 2.2%
N. 18TH ST	6.0'	16.0'	2.0'	13.0'	5.0'	6.0'	0.4% TO 3.0%	0.5% TO 3.6%
W. KEEFE AVE (EAST)	5.0'	3.4'	16.0'	16.0'	4.0'	5.0'	0.3% TO 0.5%	0.2% TO 2.1%
N. 19TH ST	0.0'	0.0'	4.0'	13.0'	5.5'	6.0'	0.2% TO 3.1%	1.5% TO 3.1%
W. KEEFE AVE (WEST)	5.0'	6.0'	13.5'	13.5'	6.0'	5.0'	0.3% TO 0.5%	0.2% TO 2.1%
W. FINN PL (WEST)	5.5'	4.5'	13.0'	13.0'	4.0'	6.0'	1.1% TO 2.2%	1.0% TO 3.0%
W. FINN PL (EAST)	6.0'	6.0'	13.0'	13.0'	6.0'	6.0'	1.1% TO 2.2%	1.0% TO 3.0%
W. NASH ST (WEST)	4.5'	0.0'	8.0'	8.0'	0.0'	5.0'	2.3%	0.4% TO 0.8%
W. NASH ST (EAST)	6.0'	4.5'	13.0'	13.0'	5.0'	6.0'	2.3%	0.4% TO 0.8%
W. VIENNA AVE (EAST)	6.0'	7.0'	13.0'	13.0'	6.0'	6.0'	1.2% TO 5.8%	0.1% TO 2.5%
W. VIENNA AVE (WEST)	6.0'	6.0'	13.0'	13.0'	6.0'	6.0'	1.2% TO 5.8%	0.1% TO 2.5%
N. 20TH ST (SOUTH)	8.0'	0.0'	17.0'	17.0'	3.0'	6.0'	N/A	N/A
N. 20TH ST (NORTH)	6.0'	6.0'	17.0'	17.0'	6.0'	6.0'	0.3% TO 1.8%	0.1% TO 3.0%
W. MELVINA ST (WEST)	6.0'	6.5'	13.0'	13.0'	6.0'	6.0'	1.6% TO 5.9%	0.8% TO 3.6%
W. MELVINA ST (EAST)	5.5'	5.0'	13.0'	13.0'	4.0'	5.0'	1.6% TO 5.9%	0.8% TO 3.6%
N. 21ST ST (SOUTH)	6.0'	6.0'	13.0'	13.0'	7.0'	5.5'	1.1% TO 4.4%	0.4% TO 2.6%
N. 21ST ST (NORTH)	6.5'	0.0'	13.0'	13.0'	5.5'	5.0'	1.1% TO 4.4%	0.4% TO 2.6%



TYPICAL FINISHED SECTION
W. BURLEIGH ST
STA 50+24.13 - STA 51+09.87

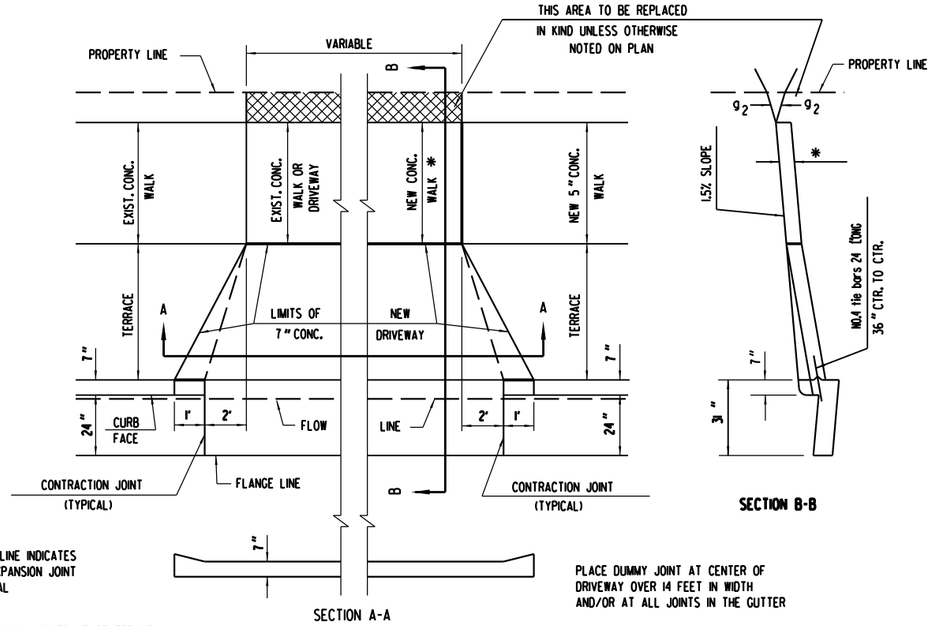


TYPICAL FINISHED SECTION
W. BURLEIGH ST
STA 51+09.87 - STA 51+86.55



TYPICAL FINISHED SECTION
N. 19TH ST
STA 50+25.09 - STA 50+96.51

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TYPICAL FINISHED SECTION	SHEET 11	E



HEAVY LINE INDICATES 1/2 "EXPANSION JOINT MATERIAL

PLACE DUMMY JOINTS AT CENTER OF DRIVEWAY AND/OR AT ALL JOINTS IN THE GUTTER

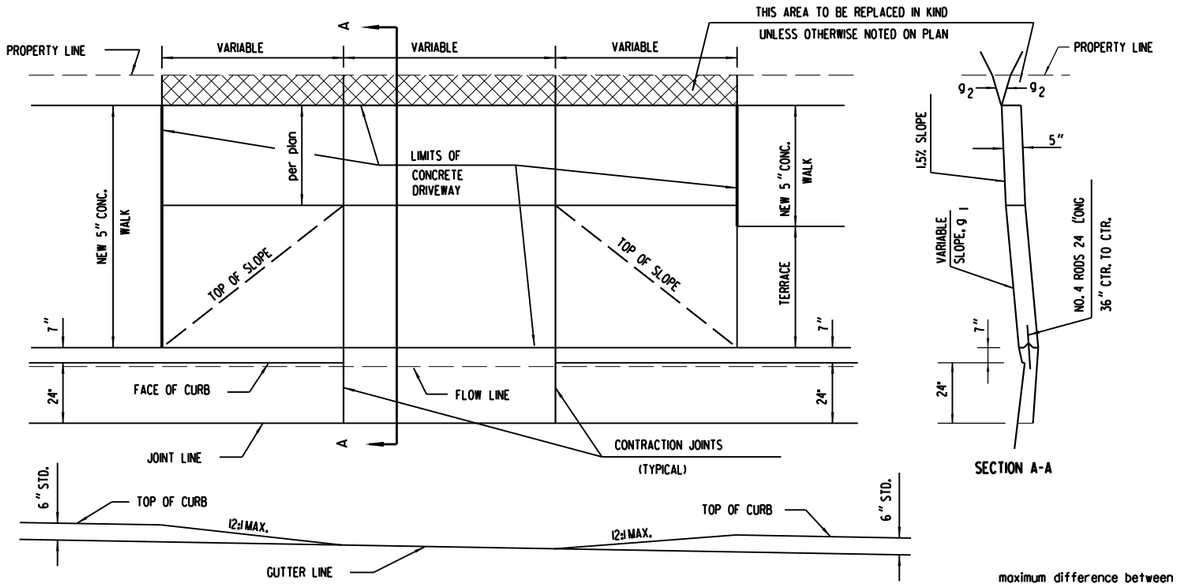
PLACE DUMMY JOINT AT CENTER OF DRIVEWAY OVER 14 FEET IN WIDTH AND/OR AT ALL JOINTS IN THE GUTTER

maximum difference between g_1 & g_2 not to exceed 15% desirable maximum = 10%

maximum difference between g_1 & g_2 in fill = 14%

* 4' MINIMUM

FLARED CONCRETE DRIVEWAY



HEAVY LINE INDICATES 1/2 "EXPANSION JOINT MATERIAL

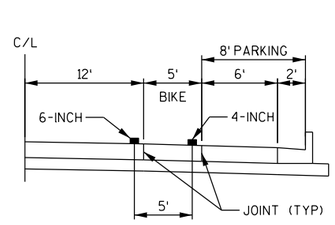
DRIVEWAY CONSTRUCTION NOTES

CONSTRUCT DRIVEWAY TO PROPERTY LINE ONLY WHEN MATCHING EXISTING DRIVEWAY AND INSTALL 1/2 "EXPANSION JOINT MATERIAL BETWEEN NEW AND OLD DRIVEWAY. PLACE DUMMY JOINT AT CENTER OF DRIVEWAY AND AT ALL JOINTS IN THE GUTTER

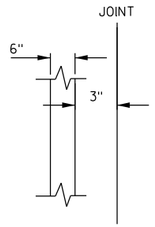
maximum difference between g_1 & g_2 not to exceed 15% desirable maximum = 10%

maximum difference between g_1 & g_2 in fill = 14%

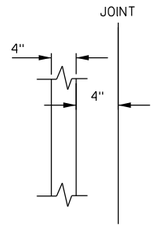
DEPRESSED CONCRETE DRIVEWAY (MODIFIED)



SECTION VIEW

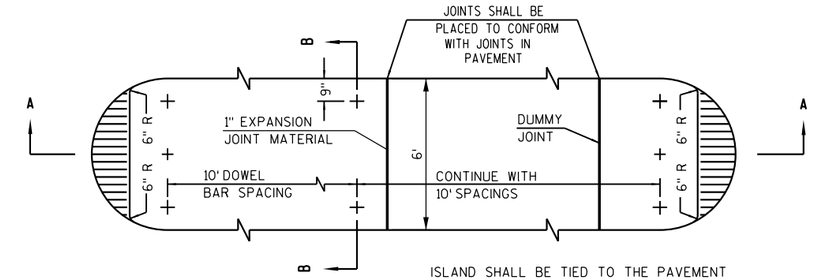


PLAN VIEW AT 6-INCH PAVEMENT MARKING

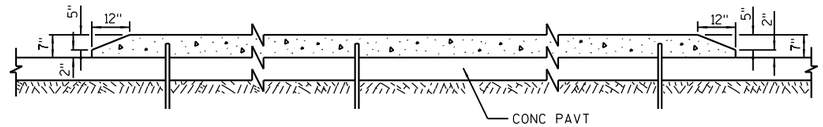


PLAN VIEW AT 4-INCH PAVEMENT MARKING

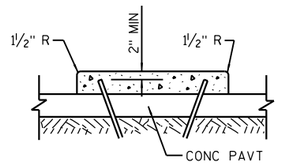
PAVEMENT MARKING DETAIL



ISLAND SHALL BE TIED TO THE PAVEMENT BY PLACING 3/4" DIA. X 18" DOWEL BARS AS DIRECTED BY THE ENGINEER. COST INCLUDED IN COST OF CONCRETE LOADING ZONE



SECTION A-A



SECTION B - B

NOTE:

SIZE AND LOCATION OF CITY OF MILWAUKEE ELECTRICAL SERVICES BOXOUTS IN CONCRETE ISLANDS ON BASE TO BE DETERMINED IN FIELD AT THE TIME OF CONSTRUCTION

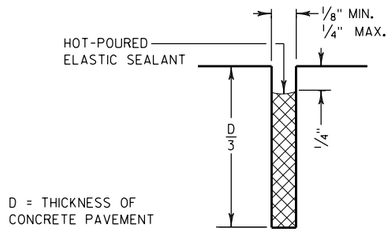
CONCRETE LOADING ZONE

(WITH SNOWPLOWABLE NOSE)

2

NOTES

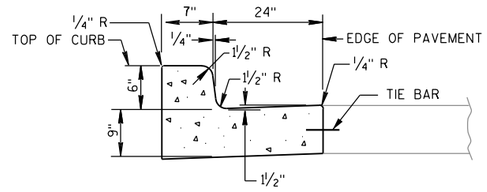
1) THIS DETAIL IS APPLICABLE TO NEW CONCRETE PAVEMENT.
2) POLYETHYLENE PLASTIC PARTING STRIPS ARE NOT ALLOWED AS AN ALTERNATIVE JOINT TYPE.
3) THIS WORK IS INCLUDED IN THE ITEMS "CONCRETE PAVEMENT 8 1/2-INCH" AND "JOINT SEALING".



JOINT AND JOINT SEALANT FOR CONCRETE PAVEMENT DETAIL

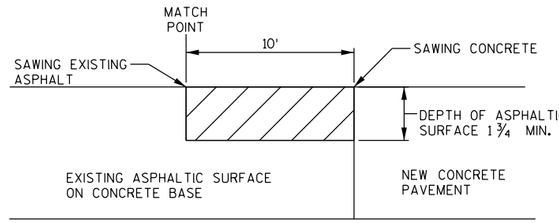
NOTES

1) DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING WILL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.



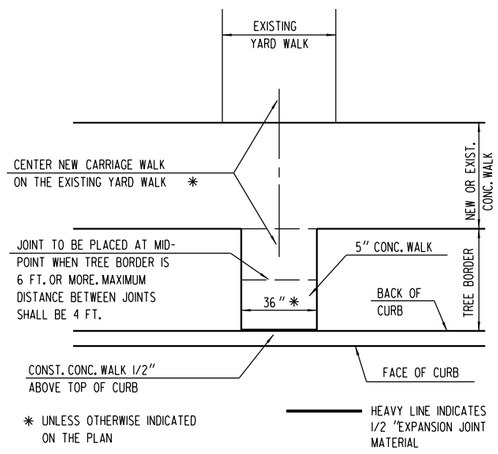
CONCRETE CURB & GUTTER 31"

REMOVING ASPHALTIC SURFACE BUTT JOINTS OR AS SHOWN ON PLANS, EXACT LIMITS TO BE LOCATED BY THE ENGINEER IN THE FIELD

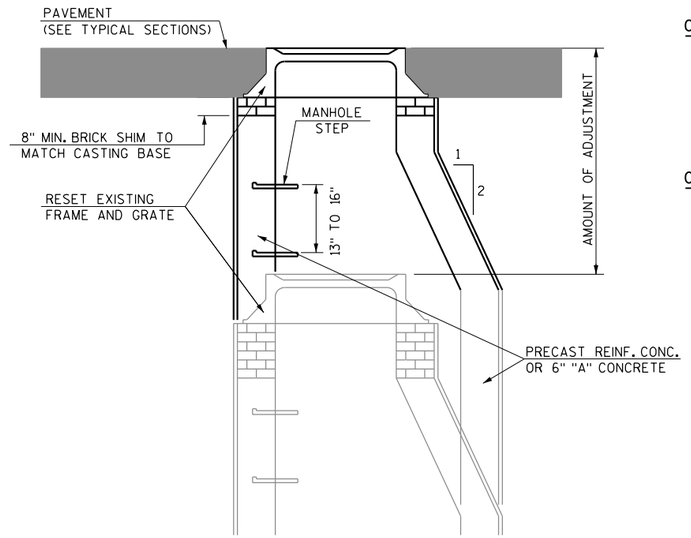


REMOVING ASPHALTIC SURFACE BUTT JOINTS
IN ROADWAY AT INTERSECTIONS AND ABUTTING PAVEMENT

2



CARRIAGE WALK



CORBEL MAY BE REVERSED STRAIGHT SIDE LEANED SLIGHTLY TO CLEAR CURB HEAD.

REPAIR BY REMOVING AND REPLACING DAMAGED OR LOOSE BRICK OR BLOCK TO THE DEPTH AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. DEPTHS AS INDICATED ON PLAN ARE ESTIMATES ONLY AND MAY VARY AT TIME OF CONSTRUCTION.

CASE 1 **NEW FRAMES & COVERS FOR EXISTING STRUCTURES:**

0" TO 12" OF ADJUSTMENT WILL BE CONSIDERED INCLUDED IN THE BID ITEM OF THE NEW COVER.

MORE THAN 12" OF ADJUSTMENT WILL BE PAID AS ITEM OF "RECONSTRUCTING MANHOLES OR INLETS".

CASE 2 **EXISTING FRAMES & COVERS TO BE SET TO NEW GRADE**

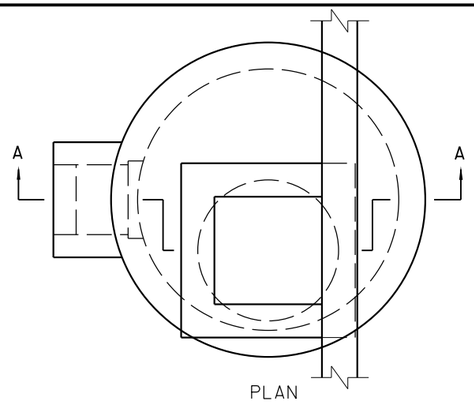
0" TO 12" OF ADJUSTMENT WILL BE PAID AS ITEM OF "ADJUSTING MANHOLE OR INLET COVERS."

MORE THAN 12" OF ADJUSTMENT WILL BE PAID AS ITEM OF "RECONSTRUCTING MANHOLES OR INLETS".

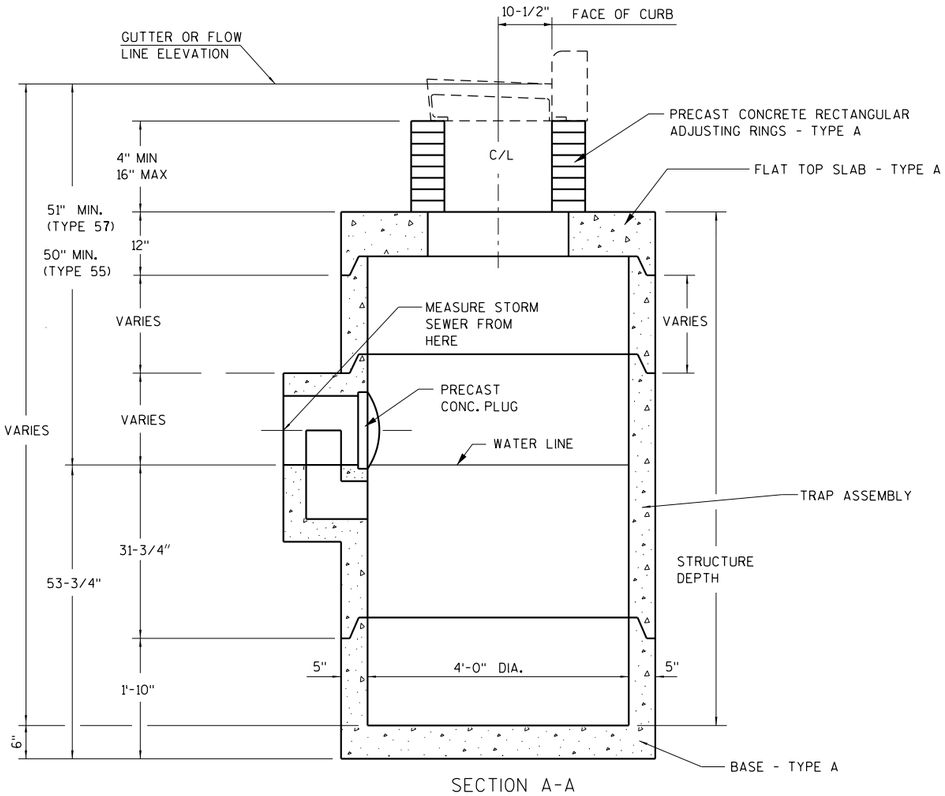
NOTES

1) IN EITHER CASE (1 OR 2), IF ANY REQUIRED ADJUSTMENT (0" TO >12") EXTENDS INTO THE CORBEL, THE ADJUSTMENT SHALL BE PAID AS ITEM OF "RECONSTRUCTING MANHOLES OR INLETS".
2) IN EITHER CASE (1 OR 2), IF THE ENGINEER IN THE FIELD, UPON INSPECTING THE EXISITNG STRUCTURE, DEEMS THE EXISITNG STRUCTURE TO BE IN A CONDITION THAT IS NOT SUITABLE FOR ITS INTENDED PURPOSE (TRAFFIC LOADING) THEN, THE STRUCTURE SHALL BE RECONSTRUCTED AND PAID UNDER THE ITEM OF "RECONSTRUCTING MANHOLES OR INLETS".
3) MANHOLE ADJUSTMENTS IN ASPHALTIC PAVEMENT WILL BE MADE AFTER THE LOWER LAYER IS PLACED.

ADJUSTING & RECONSTRUCTING MANHOLES AND INLETS

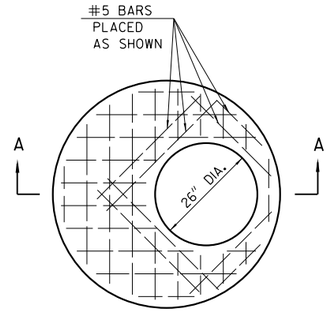


PLAN

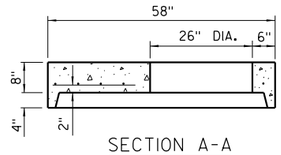


SECTION A-A

INLET - TYPE 44A



PLAN



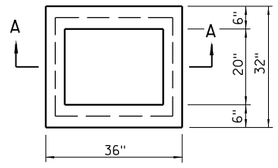
SECTION A-A

TOP SLAB - TYPE A

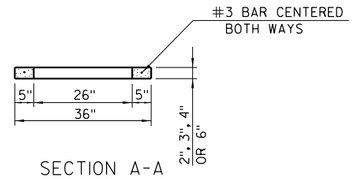
FLAT TOP SLAB SHALL BE 8" THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED IN THE CENTER THIRD OF THE SECTION AS SHOWN.

REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



PLAN

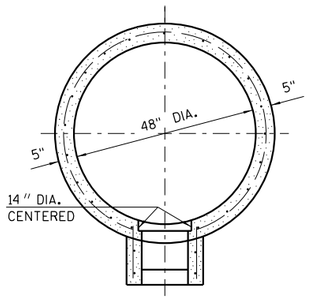


SECTION A-A

RECTANGULAR ADJUSTING RING - TYPE A

THE ADJUSTING RINGS SHALL BE 2", 3", 4" OR 6" IN HEIGHT.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



SECTION A-A

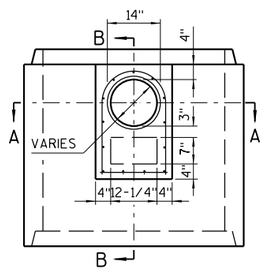
CIRCUMFERENTIAL REINFORCEMENT SHALL CONSIST OF ONE LINE OF STEEL NOT LESS THAN 0.12 SQ. IN. PER LINEAL FOOT, AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

TRAP ASSEMBLY SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED IN THE CENTER THIRD OF THE SECTION AS SHOWN.

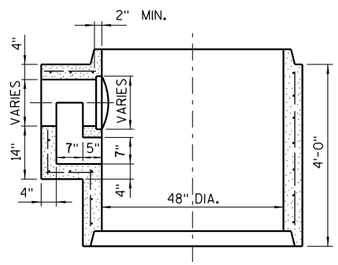
CIRCUMFERENTIAL AND TRAP ASSEMBLY REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

TWO HANDLING HOLES 2 1/4 INCHES IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.

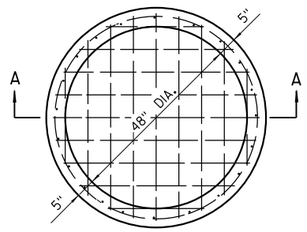


PLAN

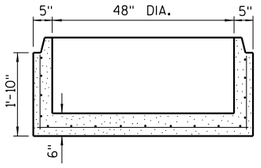


SECTION B-B

TRAP ASSEMBLY



PLAN



SECTION A-A

BASE - TYPE A

CIRCUMFERENTIAL REINFORCEMENT SHALL CONSIST OF ONE LINE OF STEEL NOT LESS THAN 0.12 SQ. IN. PER LINEAL FOOT, AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

BOTTOM SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED IN THE CENTER THIRD OF THE SLAB.

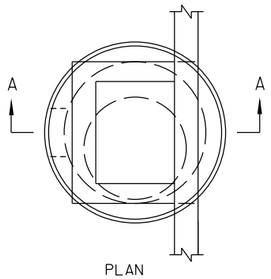
CIRCUMFERENTIAL AND BOTTOM SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

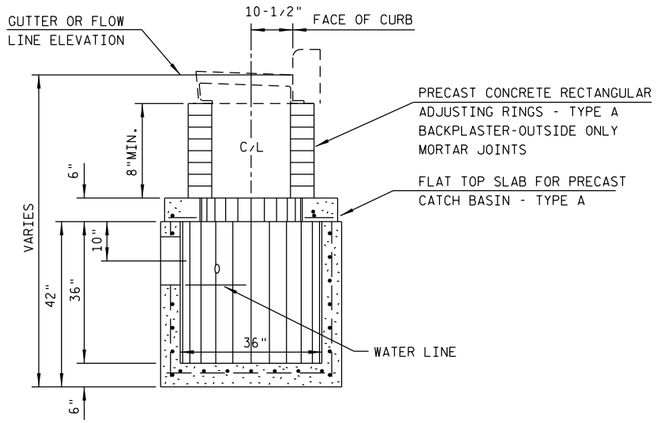
TWO HANDLING HOLES 2 1/4 INCHES IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.

NOTES

1.) REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED STEEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.
2.) PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.
3.) PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4" IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
4.) SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.
5.) A PRECAST CONCRETE PLUG SHALL BE CEMENTED INTO THE OPENING AT THE INNER FACE OF THE CATCH BASIN TRAP ASSEMBLY.



PLAN



SECTION A-A

CATCH BASIN - TYPE 45A

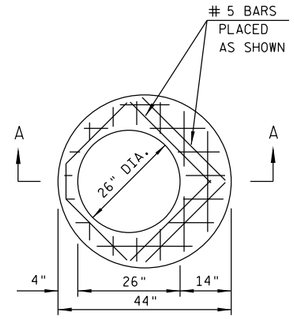
GENERAL NOTES

1. PRECAST CATCH BASIN UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199 AND ASTM DESIGNATION C-478 AND THESE DETAILED REQUIREMENTS WHICH SHALL GOVERN WHERE THEY ALTER THE AASHTO AND ASTM STANDARDS.

2. ALL REINFORCEMENT STEEL SHALL BE GRADE 60 OR GREATER AND EMBEDDED AT LEAST 1" CLEAR.

3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4 IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

4. SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.



PLAN

SECTION A-A

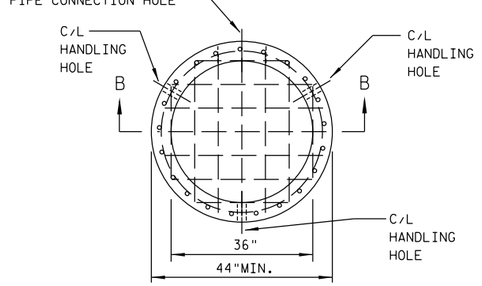
TOP SLAB - TYPE A

FLAT TOP SLAB SHALL BE 6" THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED NEAR THE BOTTOM OF THE SLAB WITH 1" CLEAR COVER.

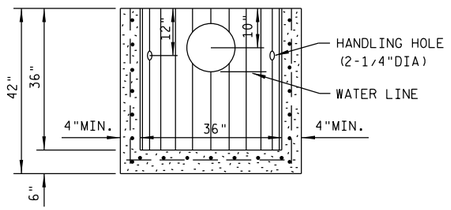
ADDITIONALLY, NO. 5 BARS SHALL BE PLACED AROUND TOP SLAB OPENING AS SHOWN.

REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

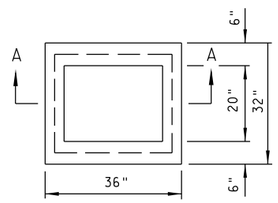
THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.



RISER SECTION WITH INTEGRAL BASE PLAN



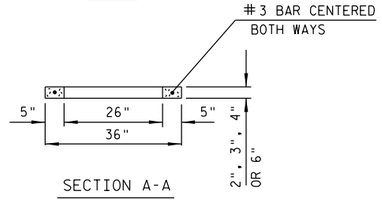
SECTION B-B



PLAN

THE ADJUSTING RINGS SHALL BE 2", 3", 4" OR 6" IN HEIGHT.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



SECTION A-A

RECTANGULAR ADJUSTING RING - TYPE A

CIRCUMFERENTIAL AND LONGITUDINAL REINFORCEMENT IN THE RISER SECTON SHALL EACH CONSIST OF ONE LAYER OF STEEL NOT LESS THAN 0.12 SQ. IN. PER FOOT AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

THE BASE SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER FOOT IN BOTH DIRECTIONS, PLACED ABOVE THE MIDPOINT OF THE SLAB.

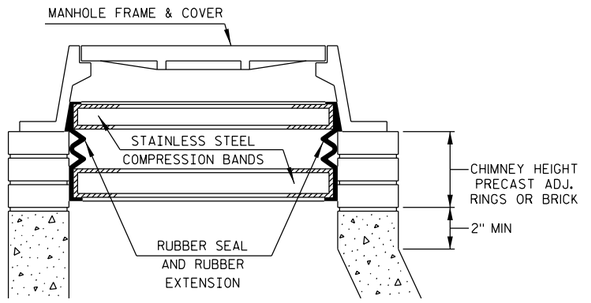
RISER SECTION AND BASE SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

TWO TO THREE HANDLING HOLES 2-1/4" IN DIAMETER AND A PIPE CONNECTION HOLE 12-1/4" IN DIAMETER SHALL BE CAST OR CORED IN THE RISER SECTION AT THE LOCATIONS SHOWN. LIFTING DEVICES MAY BE SUBSTITUTED FOR HANDLING HOLES.

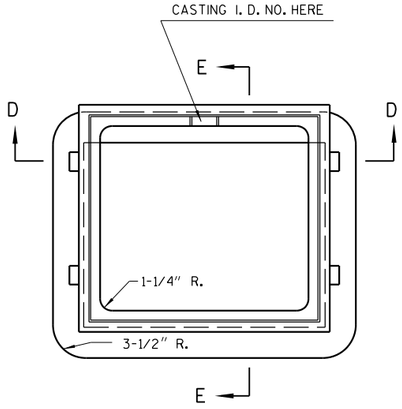
NO JOINTS OR HOLES SHALL BE BELOW THE WATERLINE.

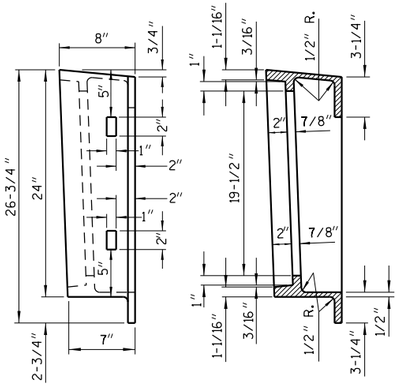
THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.

RISER SECTION MAY TAPER TO A 33" INTERNAL DIAMETER AT IT'S BOTTOM PROVIDED A 44" MINIMUM OUTSIDE DIAMETER IS MAINTAINED.

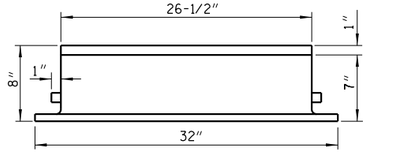


INTERNAL SANITARY MANHOLE SEAL

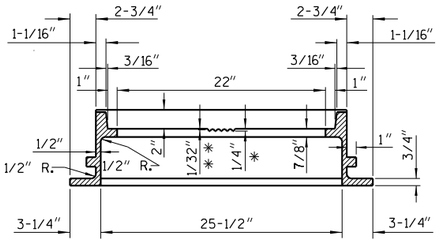




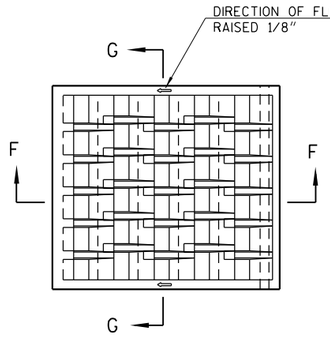
SECTION E-E



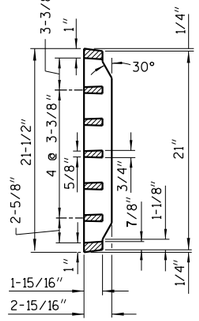
FRAME



SECTION D-D



GRATE



SECTION G-G

* DEPRESSION FOR LETTERS

* * CLEARANCE FROM TOP OF LETTERS TO FACE OF SEAT

GENERAL NOTES

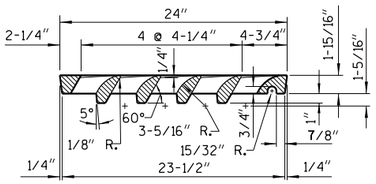
1) ALL EDGES ARE TO BE GROUND
2) ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED 1/8"
3) WHEN CONSTRUCTING CONCRETE CURB ADJACENT TO INLET COVER TYPE 57, TWO (2) DEFORMED TIE BARS SHALL BE PLACED LONGITUDINALLY THROUGH THE CURB SECTION AND EXTENDED ONE (1) FOOT BEYOND EACH SIDE OF THE FRAME. A DUMMY JOINT SHALL BE CUT IN THE CURB AT EACH SIDE OF THE FRAME.

ON THE FRAME

1. ON THE UPPER FACE OF THE FLANGE IN 1 INCH HIGH LETTERS THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.
2. ON THE SEAT OF THE FRAME IN 1 INCH HIGH LETTERS, THE CASTING IDENTIFICATION NUMBER (51).

ON THE GRATE

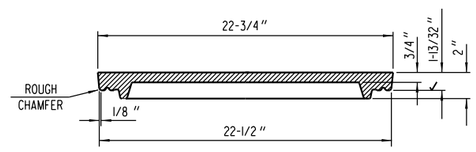
1. ON THE UPPER SIDE OF THE GRATE IN 1 INCH HIGH LETTERS, THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE, THE CASTING IDENTIFICATION NUMBER (57) AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.



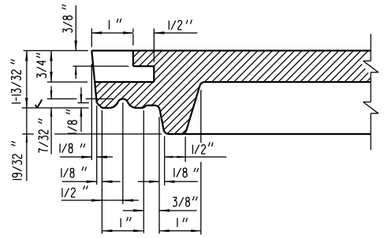
SECTION F-F

INLET COVER - TYPE 57

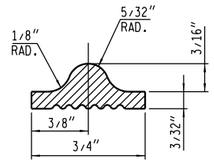
LID-145 LBS., FRAME-204 LBS.



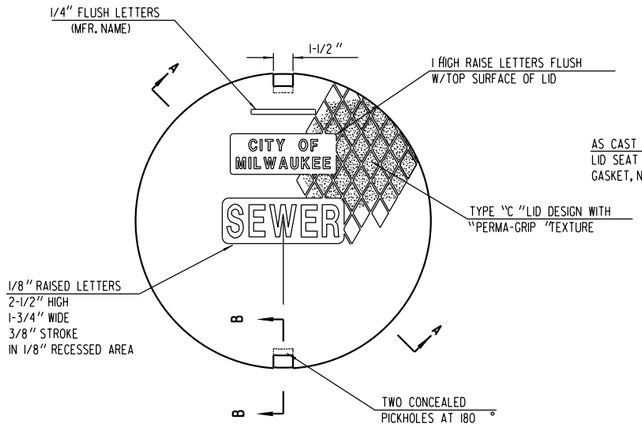
SECTION A-A



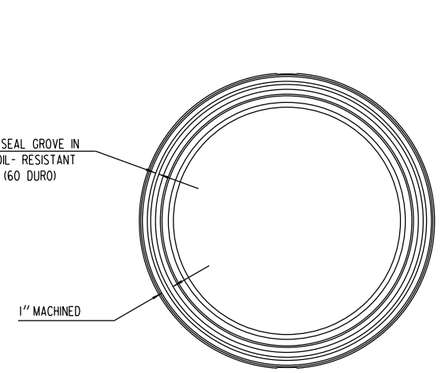
SECTION B-B



"T" GASKET DETAIL



TOP VIEW



BOTTOM VIEW

MANHOLE COVER - TYPE 58-A

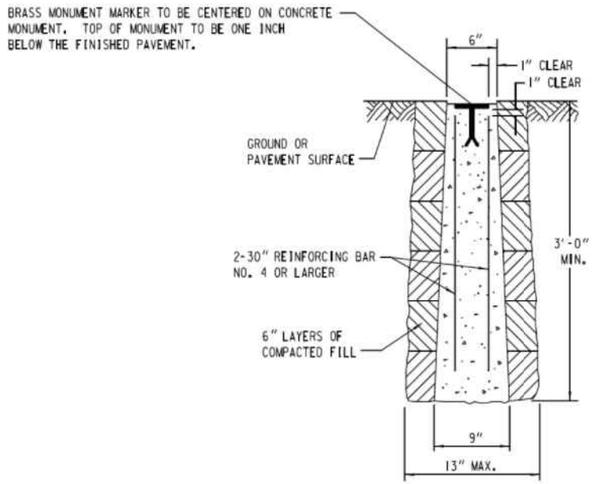
LID - 107 LBS.

NOTE:

ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED 1/8 HAVING A DIGIT OR LETTER HEIGHT OF ONE INCH ON LOWER FACE OF LID:

1. THE INITIALS OR MONOGRAM OF THE FOUNDRY.
2. THE CONTRACT NUMBER AND YEAR MADE.
3. THE CASTING IDENTIFICATION NUMBER.
4. THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

NOTE: ALL EXTERIOR EDGES SHALL BE GROUND.



PRECAST

CONCRETE MONUMENT

MONUMENT MARKER LOGO

(TO BE FURNISHED BY OTHERS)

GENERAL NOTES

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

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE CITY OF MILWAUKEE, INFRASTRUCTURE SERVICES DIVISION, CONSTRUCTION SECTION.

INSTALLATION OF PRECAST MONUMENT TO BE SUPERVISED BY CITY OF MILWAUKEE, INFRASTRUCTURE SERVICES DIVISION, CONSTRUCTION SECTION FOR ACCURACY OF LOCATION.

LANDMARK REFERENCE MONUMENTS TO BE REPLACED

LOCATION	MONUMENTS	STATION	REMARKS
AT W. VIENNA AVE	1	STA 49+36.77 ON R/L	SEE SPECIAL PROVISIONS FOR INFORMATION ON RESTORATION OF MONUMENTS

LANDMARK REFERENCE MONUMENT

LANDMARK REFERENCE MONUMENT DETAIL

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

CURB RAMP TYPE 3 MODIFIED

STA 153+23.62, -43.44
EL=117.73

STA 153+23.03, -36.44
EL=117.38

STA 153+17.64, -43.94
EL=117.76

STA 153+17.05, -36.94
EL=117.47

STA 153+16.95, -35.71
EL=117.47

STA 153+10.54, -34.57
EL=117.40

STA 153+11.42, -29.65
EL=117.35

STA 153+11.12, -26.05
EL=117.31

STA 153+02.70, -33.17
EL=117.73

STA 153+03.60, -28.12
EL=117.70

STA 153+04.06, -25.00
EL=117.69T, 117.19G

STA 153+04.06, -23.00
EL=117.27

STA 153+11.08, -25.00
EL=117.29

STA 153+11.08, -23.00
EL=117.37

STA 153+30.22, -43.38
EL=117.67T, 117.17G

STA 153+32.21, -43.22
EL=117.25

STA 153+26.49, -36.44
EL=117.25

STA 153+29.41, -36.28
EL=117.21

STA 153+31.35, -35.79
EL=117.29

STA 153+26.95, -31.09
EL=117.25

STA 153+28.56, -29.90
EL=117.33

STA 153+22.17, -31.44
EL=117.40

STA 153+22.94, -28.05
EL=117.62T, 117.28G

STA 153+24.39, -25.91
EL=117.36

STA 153+22.72, -24.91
EL=117.38

STA 153+21.53, -27.21
EL=117.63T, 117.30G

STA 153+16.51, -30.56
EL=117.43

STA 153+16.15, -25.05
EL=117.34

STA 153+16.32, -23.06
EL=117.42

0.5%
1.0%
5%
4.1%
3.7%
1.5%
1%
0.8%
0.5%
3.1%
3.5%
1.5%
4.1%
1.1%
1.6%
0.5%
1.5%

R/L W. CHAMBERS ST

W. CHAMBERS ST

STA 153+80.45, -46.65
EL=117.55G, 118.05T

STA 153+78.50, -46.25
EL=117.63

STA 153+81.51, -41.76
EL=117.94T, 117.53G

STA 153+79.56, -41.32
EL=117.61

STA 153+85.94, -36.22
EL=117.55

STA 153+82.87, -36.08
EL=117.50

STA 153+80.94, -35.56
EL=117.58

STA 153+85.45, -30.87
EL=117.47

STA 153+83.86, -29.65
EL=117.55

STA 153+91.65, -31.19
EL=117.64

STA 153+87.77, -28.46
EL=117.70T, 117.45G

STA 153+86.49, -26.92
EL=117.53F

STA 153+88.46, -27.91
EL=117.70T, 117.45G

STA 153+87.28, -26.30
EL=117.53F

STA 153+90.42, -26.70
EL=117.44G

STA 153+89.49, -24.92
EL=117.52

2%
2.2%
2%
1%
5.3%
5.6%
1.5%
3%
2.9%
1.5%
1.5%
3%
1%
3.4%
5.1%
1%

CURB RAMP TYPE 2 MODIFIED

STA 153+86.87, -48.10
EL=118.17

STA 153+92.72, -49.43
EL=118.23

STA 153+87.93, -43.21
EL=118.06

STA 153+93.78, -44.54
EL=118.12

STA 153+89.63, -36.20
EL=117.66

STA 153+95.44, -37.71
EL=117.75

STA 153+96.04, -35.43
EL=117.73

STA 153+97.92, -34.94
EL=117.71

STA 153+96.58, -29.90
EL=117.63

STA 154+04.70, -33.18
EL=117.92

STA 154+03.34, -28.10
EL=117.87

STA 154+02.67, -25.00
EL=117.84T, 117.34G

STA 154+02.67, -23.00
EL=117.42

STA 153+95.38, -25.13
EL=117.41G

STA 153+95.12, -23.15
EL=117.49

153

154

N. TEUTONIA AVE

R/L N. TEUTONIA AVE

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 18	E

N. TEUTONIA AVE

153

154

W. CHAMBERS ST

R/L N. TEUTONIA AVE

R/L W. CHAMBERS ST

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

STA 153+11.77, 23.00
EL=116.89

STA 153+11.77, 25.00
EL=116.81

STA 153+11.76, 26.00
EL=116.83

STA 153+06.79, 23.00
EL=116.84

STA 153+06.79, 25.00
EL=116.76

STA 153+06.79, 25.58
EL=116.77

STA 153+06.63, 27.44
EL=116.80

STA 152+99.30, 23.00
EL=116.76

STA 152+99.30, 25.00
EL=117.18T, 116.68G

STA 152+99.30, 26.93
EL=117.20

STA 152+99.30, 31.45
EL=117.27

STA 152+99.29, 33.19
EL=117.28

STA 152+92.55, 23.00
EL=116.70

STA 152+92.54, 25.00
EL=117.12T, 116.62G

STA 152+92.54, 26.46
EL=117.13

STA 152+92.54, 31.50
EL=117.21

STA 153+11.67, 27.44
EL=116.88

STA 153+18.47, 25.60
EL=117.22T, 116.89G

STA 153+19.03, 23.68
EL=116.97

STA 153+18.77, 28.69
EL=117.18

STA 153+20.76, 28.93
EL=117.19

STA 153+21.86, 27.07
EL=117.23T, 116.90G

STA 153+22.87, 25.34
EL=116.98

STA 153+21.66, 30.09
EL=117.18

STA 153+24.32, 33.54
EL=116.99

STA 153+25.86, 35.48
EL=116.98

STA 153+28.50, 35.30
EL=116.94

STA 153+30.40, 34.68
EL=117.02

STA 153+29.25, 40.50
EL=116.96

STA 153+31.25, 40.52
EL=117.04

STA 153+28.04, 46.59
EL=116.76G, 117.16T

STA 153+29.97, 47.10
EL=116.84

STA 153+16.66, 59.11
EL=116.47

STA 153+21.49, 60.38
EL=116.42

STA 153+24.23, 61.10
EL=115.98G, 116.41T

STA 153+26.14, 61.60
EL=116.06

STA 153+18.96, 70.05
EL=116.16

STA 153+21.70, 70.77
EL=115.65G, 116.15T

STA 153+23.63, 71.28
EL=115.73

STA 153+06.29, 31.44
EL=116.86

STA 153+06.29, 33.22
EL=117.28

STA 153+11.31, 31.44
EL=116.91

STA 153+11.31, 33.24
EL=117.28E

STA 153+16.05, 33.26
EL=117.27E

CURB RAMP TYPE 3 MODIFIED

STA 153+18.29, 32.70
EL=117.24

STA 153+19.84, 35.46
EL=117.16

STA 153+21.82, 35.47
EL=117.04

STA 153+19.55, 38.60
EL=117.35

STA 153+19.10, 40.46
EL=117.26

STA 153+18.11, 43.99
EL=117.24

STA 153+21.81, 40.47
EL=117.07

STA 153+20.46, 44.60
EL=117.23

STA 153+25.81, 40.48
EL=117.01

STA 153+25.30, 45.87
EL=117.18

STA 153+14.12, 68.78
EL=116.24

STA 153+81.79, 23.00
EL=117.13

STA 153+81.79, 25.00
EL=117.05

STA 153+81.45, 26.87
EL=117.08

STA 153+76.62, 23.00
EL=117.16

STA 153+76.62, 25.00
EL=117.08

STA 153+76.62, 25.58
EL=117.09

STA 153+80.95, 29.06
EL=117.25

STA 153+76.10, 27.52
EL=117.24

STA 153+75.65, 29.21
EL=117.27

STA 153+73.61, 29.22
EL=117.37

STA 153+71.34, 29.24
EL=117.42

STA 153+67.19, 29.27
EL=117.36

STA 153+66.54, 28.48
EL=117.36T, 117.03G

STA 153+65.26, 26.95
EL=117.11

STA 153+65.88, 29.07
EL=117.35T, 117.02G

STA 153+64.51, 27.61
EL=117.10

STA 153+66.08, 33.45
EL=117.30

STA 153+65.50, 35.63
EL=117.21

STA 153+61.86, 35.43
EL=116.99

STA 153+59.96, 34.83
EL=117.07

STA 153+60.51, 40.45
EL=116.93

STA 153+58.57, 39.94
EL=117.01

STA 153+64.17, 40.62
EL=117.15

STA 153+57.51, 43.93
EL=116.95

STA 153+59.44, 44.45
EL=117.28T, 116.84G

STA 153+61.94, 45.11
EL=117.33

STA 153+66.77, 46.40
EL=117.36

STA 153+55.15, 53.59
EL=116.48

STA 153+56.87, 54.11
EL=116.40G, 116.90T

STA 153+59.36, 54.77
EL=116.92

STA 153+64.19, 56.06
EL=116.95

STA 153+50.07, 72.94
EL=116.06

STA 153+52.01, 73.45
EL=115.98G, 116.48T

STA 153+54.51, 74.10
EL=116.50

STA 153+59.05, 75.39
EL=116.55

STA 153+80.97, 33.07
EL=117.31

STA 153+88.00, 23.00
EL=117.09

STA 153+88.02, 25.00
EL=117.51T, 117.01G

STA 153+88.06, 27.89
EL=117.52

STA 153+88.19, 32.89
EL=117.57

STA 153+88.18, 35.27
EL=117.60

STA 153+80.95, 35.12
EL=117.38

STA 153+76.69, 35.03
EL=117.43

STA 153+75.76, 33.21
EL=117.33

STA 153+73.64, 33.26
EL=117.43

STA 153+70.25, 33.35
EL=117.36

STA 153+70.65, 36.81
EL=117.36

STA 153+70.94, 38.98
EL=117.34

STA 153+69.36, 36.66
EL=117.27

STA 153+68.46, 40.05
EL=117.23

STA 153+68.03, 41.65
EL=117.21

CURB RAMP TYPE 3 MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 19	E

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

CURB RAMP TYPE 7B MODIFIED

STA 156+60.73, -31.78
EL=115.08

STA 156+60.74, -25.78
EL=114.99

STA 156+65.73, -31.79
EL=115.04

STA 156+65.74, -25.79
EL=114.94

STA 156+53.73, -31.77
EL=115.22

STA 156+72.73, -31.80
EL=115.09

STA 156+53.74, -25.77
EL=115.13

STA 156+72.74, -25.80
EL=115.00

STA 156+53.74, -19.00
EL=115.10T, 114.60G

STA 156+72.74, -19.00
EL=114.91T, 114.41G

STA 156+53.74, -17.00
EL=114.68

STA 156+72.74, -17.00
EL=114.49

STA 156+60.75, -19.00
EL=114.53

STA 156+65.75, -17.00
EL=114.56

STA 156+60.75, -17.00
EL=114.61

STA 156+65.75, -19.00
EL=114.48

2% 1% 0.7% 1.5% 1.5% 1.5% 2% 0.9% 6.8% 6.8% 1.5% 0.5%

CURB RAMP TYPE 7B MODIFIED

STA 157+15.11, -31.71
EL=114.53

STA 157+20.11, -31.71
EL=114.47

STA 157+20.12, -25.71
EL=114.38

STA 157+08.11, -31.75
EL=114.73

STA 157+27.11, -31.69
EL=114.53

STA 157+08.12, -25.75
EL=114.64

STA 157+27.12, -25.69
EL=114.44

STA 157+15.12, -25.73
EL=114.44

STA 157+08.12, -19.00
EL=114.55T, 114.05G

STA 157+27.12, -19.00
EL=114.35T, 113.85G

STA 157+08.12, -17.00
EL=114.13

STA 157+27.12, -17.00
EL=113.93

STA 157+15.13, -19.00
EL=113.98

STA 157+20.13, -19.00
EL=113.92

STA 157+15.13, -17.00
EL=114.06

STA 157+20.13, -17.00
EL=114.00

2.9% 0.9% 1.5% 1.5% 1.5% 2.9% 0.9% 1.5% 6.8% 6.8% 1.5%

N. TEUTONIA AVE

N. TEUTONIA AVE

157

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 20	E

2

N. TEUTONIA AVE

157

N. TEUTONIA AVE

W. COLUMBIA ST

W. COLUMBIA ST

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

STA 156+65.52, 23.00
EL=114.33

STA 156+65.50, 25.00
EL=114.25

STA 156+60.50, 23.00
EL=114.38

STA 156+60.50, 25.00
EL=114.30

STA 156+60.48, 27.98
EL=114.38

STA 156+60.47, 32.00
EL=114.44

STA 156+54.50, 23.00
EL=114.45

STA 156+54.50, 25.00
EL=114.78T, 114.37G

STA 156+54.49, 26.97
EL=114.79

STA 156+47.51, 23.00
EL=114.41

STA 156+47.50, 25.00
EL=114.33G, 114.66T

STA 156+47.49, 26.59
EL=114.84

STA 156+54.47, 31.97
EL=114.82

STA 156+47.47, 31.59
EL=114.92

STA 156+36.84, 31.02
EL=114.86

STA 156+37.08, 33.43
EL=114.88 (EXIST)

STA 156+47.41, 33.63
EL=114.73

STA 156+54.45, 33.79
EL=114.63

CURB RAMP TYPE 3 MODIFIED

STA 156+65.48, 28.00
EL=114.33

STA 156+65.99, 32.00
EL=114.39

STA 156+70.74, 31.79
EL=114.17

STA 156+73.88, 29.31
EL=114.36T, 114.03G

STA 156+74.01, 29.51
EL=114.34T, 114.01G

STA 156+74.01, 29.51
EL=114.11

STA 156+75.87, 28.68
EL=114.09

STA 156+73.41, 35.57
EL=113.99

STA 156+60.45, 33.91
EL=114.54

STA 156+69.26, 29.70
EL=113.35

STA 156+72.45, 34.21
EL=114.00

STA 156+69.18, 36.52
EL=114.04

STA 156+73.30, 36.54
EL=113.98

STA 156+67.46, 41.51
EL=113.96

STA 156+71.68, 41.53
EL=113.92

STA 156+71.24, 42.82
EL=113.90

STA 156+65.38, 47.50
EL=113.99

STA 156+74.35, 41.73
EL=113.75

STA 156+76.24, 42.38
EL=113.83

STA 156+72.27, 47.73
EL=113.90

STA 156+74.16, 48.38
EL=113.62

STA 156+77.82, 36.82
EL=113.91

STA 156+75.83, 36.61
EL=113.83

STA 156+97.41, 42.47
EL=113.60

STA 156+99.27, 43.11
EL=113.85T, 113.52G

STA 156+87.57, 70.81
EL=112.77

STA 156+89.46, 71.46
EL=112.69

STA 157+07.07, 28.85
EL=114.11T, 113.78G

STA 157+06.32, 29.51
EL=114.10T, 113.77G

STA 157+05.36, 26.91
EL=113.86

STA 157+04.61, 27.57
EL=113.85

STA 157+01.69, 36.10
EL=113.67

STA 156+99.76, 35.43
EL=113.75

STA 156+99.95, 41.12
EL=113.59

STA 156+98.06, 40.46
EL=113.65

STA 156+91.88, 72.35
EL=113.16

STA 157+11.40, 28.69
EL=114.05

STA 157+11.57, 33.16
EL=114.12

STA 157+14.64, 23.07
EL=113.93

STA 157+14.83, 25.06
EL=113.85

STA 157+14.86, 28.61
EL=113.90

STA 157+19.87, 23.00
EL=113.89

STA 157+19.88, 25.00
EL=113.81

STA 157+26.85, 23.00
EL=113.82

STA 157+26.85, 25.00
EL=114.25T, 113.74G

STA 157+19.86, 28.61
EL=113.86

STA 157+26.85, 28.61
EL=114.27

STA 157+26.85, 32.58
EL=114.29

STA 157+19.85, 32.58
EL=113.92

STA 157+14.85, 32.58
EL=113.96

STA 157+09.79, 34.46
EL=114.12

STA 157+05.58, 32.91
EL=114.05

STA 157+08.15, 37.57
EL=113.86

STA 157+04.37, 36.27
EL=113.80

STA 157+06.41, 42.59
EL=113.78

STA 157+02.63, 41.29
EL=113.72

STA 157+05.49, 45.26
EL=113.92

STA 157+01.71, 43.95
EL=113.86

STA 157+03.52, 50.93
EL=113.97

STA 156+99.74, 49.62
EL=113.91

STA 156+97.30, 48.78
EL=113.88T, 113.38G

STA 156+95.42, 48.13
EL=113.46

CURB RAMP TYPE 3 MODIFIED

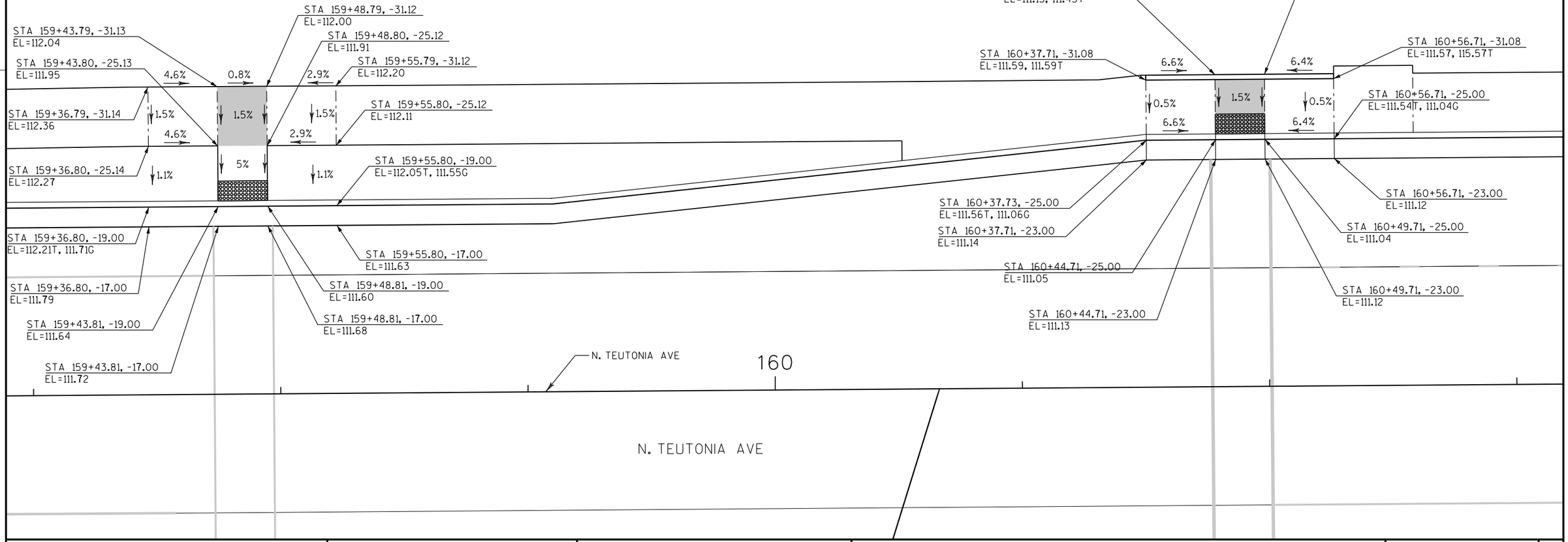
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 21	E

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

CURB RAMP TYPE 7B MODIFIED



CURB RAMP TYPE 7A MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 22	E

2

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N. TEUTONIA AVE

160

N. TEUTONIA AVE

STA 159+30.34, 23.00
EL=111.73

STA 159+30.31, 25.58
EL=112.15T, 111.65G

STA 159+35.31, 23.00
EL=111.68

STA 159+35.31, 25.58
EL=112.10T, 111.60G

STA 159+35.31, 28.82
EL=112.15

STA 159+44.01, 23.09
EL=111.66

STA 159+43.85, 25.08
EL=111.58

STA 159+49.48, 24.03
EL=111.61

STA 159+48.96, 25.96
EL=111.53

STA 159+56.09, 26.68
EL=111.54

STA 159+56.96, 27.18
EL=111.53

STA 159+54.85, 28.95
EL=111.79T, 111.46G

STA 159+55.65, 29.40
EL=111.78T, 111.45G

STA 159+53.28, 32.50
EL=111.81

STA 159+62.62, 31.51
EL=111.46

STA 159+61.23, 32.94
EL=111.38

STA 159+67.05, 36.98
EL=111.39

STA 159+65.36, 38.04
EL=111.31

STA 159+71.11, 47.12
EL=111.21

STA 159+68.58, 47.63
EL=111.63T,111.13G

STA 159+30.31, 33.00
EL=112.26

STA 159+35.31, 33.00
EL=112.21

STA 159+43.49, 28.82
EL=111.79

STA 159+42.93, 32.78
EL=111.83

STA 159+47.91, 29.88
EL=111.74

STA 159+46.87, 33.75
EL=111.80

STA 159+51.09, 35.85
EL=111.83

STA 159+55.02, 39.23
EL=111.73

STA 159+57.84, 36.38
EL=111.67

STA 159+57.50, 42.66
EL=111.68

STA 159+60.98, 40.68
EL=111.62

STA 159+59.88, 49.37
EL=111.76

STA 159+63.80, 48.58
EL=111.70

1.5% 4.6% 6% 6% 0.5% 0.5% 5% 1.5% 1.2% 0.6% 2.3% 1.9% 6% 1.5% 6% 1% 1.1% 1.5% 1.5%

CURB RAMP TYPE 3 MODIFIED

R/L W. BURLEIGH ST

W. BURLEIGH ST

STA 160+44.79, 27.35
EL=111.24

STA 160+44.51, 26.84
EL=111.22

STA 160+43.55, 25.08
EL=111.30

STA 160+44.79, 29.35
EL=111.27

STA 160+43.32, 29.35
EL=111.30

STA 160+41.72, 29.60
EL=111.35,111.18G

STA 160+39.93, 27.73
EL=111.26

STA 160+41.04, 30.29
EL=111.34T,111.17G

STA 160+39.13, 28.55
EL=111.25

STA 160+38.45, 32.98
EL=111.13

STA 160+36.68, 32.04
EL=111.21

STA 160+34.60, 37.40
EL=111.15

STA 160+36.49, 38.06
EL=111.07

STA 160+49.44, 23.15
EL=111.36

STA 160+49.71, 25.13
EL=111.28

STA 160+56.78, 23.00
EL=111.34

STA 160+56.79, 25.00
EL=111.76T,111.26G

STA 160+49.79, 27.34
EL=111.31

STA 160+56.79, 28.22
EL=111.80

STA 160+56.80, 33.22
EL=111.88

STA 160+50.16, 29.27
EL=111.34

STA 160+50.17, 33.34
EL=111.40

STA 160+46.17, 33.35
EL=111.35

STA 160+44.80, 33.35
EL=111.33

STA 160+41.93, 33.35
EL=111.29

STA 160+43.96, 39.67
EL=111.28

STA 160+40.18, 38.35
EL=111.22

STA 160+36.49, 45.92
EL=111.49

STA 160+34.05, 45.06
EL=111.46T, 110.96G

STA 160+32.16, 44.41
EL=111.04

1.5% 1.5% 1.5% 6.7% 1.5% 1.5% 1.6% 1.5% 5.3% 1.4% 7.3% 1.5% 1.5% 1% 4.7% 3.2% 3.5% 1.5% 1.5%

CURB RAMP TYPE 3 MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 23	E

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

CURB RAMP TYPE 4B1 MODIFIED

CURB RAMP TYPE 4A1 MODIFIED

STA 166+22.65, -31.49
EL=115.20

STA 166+12.40, -38.13
EL=115.34

STA 166+19.57, -31.58
EL=115.25

STA 166+13.57, -31.58
EL=115.60

STA 166+08.20, -31.58
EL=115.68

STA 165+98.91, -31.99
EL=

STA 165+98.91, -31.58
EL=115.43

STA 165+98.91, -25.58
EL=115.40

STA 165+98.91, -19.00
EL=115.19T, 114.69G

STA 165+98.91, -17.00
EL=114.77

STA 166+08.20, -25.58
EL=115.62

STA 166+08.20, -19.00
EL=114.75G, 115.25G

STA 166+08.20, -17.00
EL=114.83

STA 166+19.57, -38.13
EL=115.45

STA 166+22.28, -38.13
EL=115.88

STA 166+22.87, -38.13
EL=115.45

STA 166+24.87, -38.13
EL=115.46

STA 166+24.63, -31.15
EL=115.28

STA 166+20.04, -25.24
EL=115.18

STA 166+21.67, -24.07
EL=115.17

STA 166+19.57, -25.58
EL=115.19

STA 166+13.57, -25.58
EL=115.54

STA 166+14.18, -20.39
EL=115.24T, 114.91G

STA 166+15.02, -18.58
EL=114.99

STA 166+12.35, -19.69
EL=115.19T, 114.86G

STA 166+12.95, -17.78
EL=114.94

4.6%
3.1%
7%
2.7%
1.5%
5.8%
1.5%
0.5%
1%
1%
1%
2.4%
1.5%
5.8%
5.1%
5.2%
6.4%
3.5%

STA 166+47.07, -37.55
EL=115.73T, 115.48G

STA 166+49.67, -37.65
EL=115.67

STA 166+52.68, -31.65
EL=115.40

STA 166+57.49, -37.65
EL=115.79

STA 166+57.17, -31.65
EL=115.45

STA 166+64.17, -31.66
EL=115.78

STA 166+78.18, -31.67
EL=116.02

STA 166+45.09, -37.22
EL=115.56

STA 166+49.61, -31.29
EL=115.37

STA 166+48.01, -30.15
EL=115.45

STA 166+56.20, -26.11
EL=115.36

STA 166+55.44, -24.26
EL=115.41

STA 166+57.18, -26.65
EL=115.38

STA 166+64.18, -26.66
EL=115.71

STA 166+64.18, -25.00
EL=115.29G, 115.69T

STA 166+64.18, -23.00
EL=115.37

STA 166+78.20, -26.67
EL=115.97

STA 166+78.18, -25.00
EL=115.46G, 115.96T

STA 166+78.18, -23.00
EL=115.54

4.3%
1%
1%
1.5%
4.7%
4.7%
1.5%
1.7%
1.9%
1%
1.0%
1.5%
1.5%
1%

166

167

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

2

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 24	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021058_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

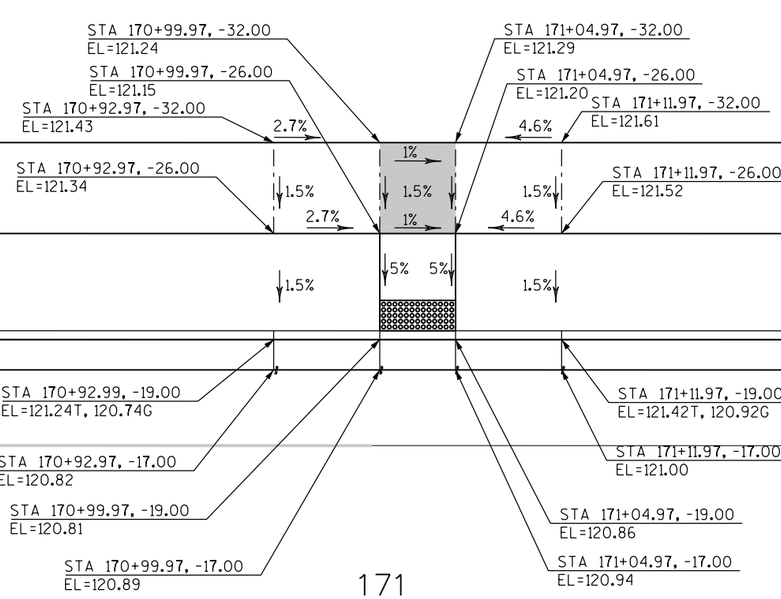
2

LEGEND

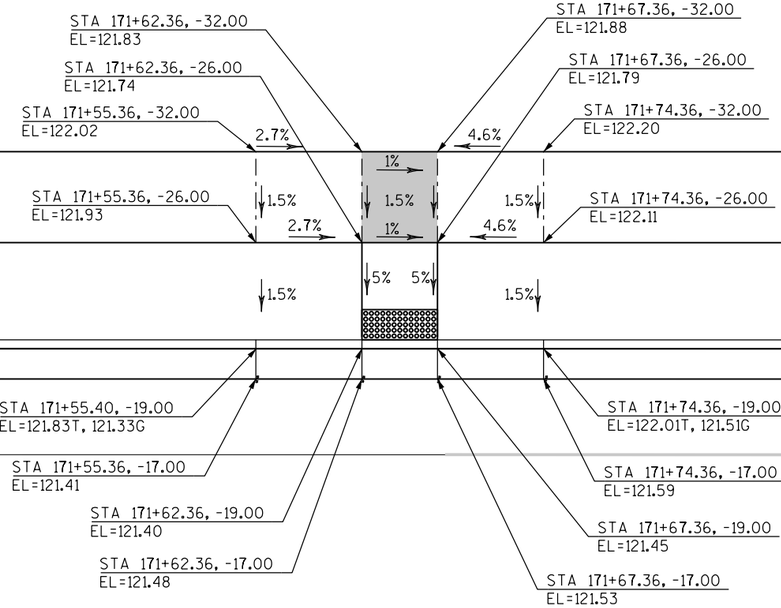
XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

CURB RAMP TYPE 7B MODIFIED



CURB RAMP TYPE 7B MODIFIED



N. TEUTONIA AVE

R/L N. TEUTONIA AVE

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 25	E

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N. TEUTONIA AVE

W. RING ST

STA 171+04.94, 23.00
EL=121.05
STA 171+04.98, 25.00
EL=120.97
STA 170+99.93, 22.99
EL=121.00
STA 170+99.98, 25.00
EL=120.92
STA 170+99.98, 27.58
EL=121.08
STA 170+94.98, 23.00
EL=120.95
STA 170+94.98, 25.00
EL=121.37T, 120.87G
STA 170+94.98, 27.58
EL=121.39
STA 170+99.98, 28.58
EL=121.14
STA 170+94.98, 32.58
EL=121.44
STA 170+99.98, 32.58
EL=121.20
STA 171+04.25, 32.58
EL=121.24
STA 171+05.89, 33.77
EL=121.31
STA 171+09.42, 32.35
EL=121.07
STA 171+06.36, 34.79
EL=121.31
STA 171+06.25, 37.31
EL=121.31
STA 171+06.05, 38.70
EL=121.48
STA 171+10.56, 37.32
EL=120.97
CAUTION: HOLLOW WALK
STA 171+09.48, 42.19
EL=121.05
STA 171+08.44, 47.08
EL=121.19
STA 171+14.88, 43.34
EL=120.99
STA 171+13.84, 48.23
EL=120.94
STA 171+19.36, 44.30
EL=121.05T, 120.55G
STA 171+17.92, 49.10
EL=120.83 (EXIST)
STA 171+21.32, 44.71
EL=120.63

CURB RAMP TYPE 3 MODIFIED

STA 171+04.95, 28.41
EL=121.19
STA 171+04.98, 32.41
EL=121.25
STA 171+09.37, 28.35
EL=121.01
STA 171+12.96, 27.32
EL=121.06T
STA 171+14.03, 25.63
EL=120.97, 120.89G
STA 171+13.69, 27.82
EL=121.05T
STA 171+14.86, 26.19
EL=120.96, 120.88G
STA 171+14.68, 32.30
EL=120.98
STA 171+17.62, 31.98
EL=120.83
STA 171+19.31, 30.91
EL=120.87
STA 171+21.61, 36.81
EL=120.76
STA 171+19.68, 37.18
EL=120.72
STA 171+17.06, 37.30
EL=120.76
STA 171+15.14, 37.30
EL=120.90
STA 171+48.97, 39.69
EL=121.10
STA 171+48.51, 41.84
EL=121.05
STA 171+50.93, 40.11
EL=121.02G, 121.52T
STA 171+50.47, 42.26
EL=121.47

STA 171+67.37, 21.91
EL=121.55
STA 171+66.78, 17.54
EL=121.60
STA 171+62.37, 21.92
EL=121.51
STA 171+67.22, 19.49
EL=121.52
STA 171+62.09, 21.41
EL=121.49
STA 171+70.17, 17.05
EL=121.62
STA 171+61.14, 19.65
EL=121.57
STA 171+70.31, 19.04
EL=121.54G, 122.04T
STA 171+72.01, 17.00
EL=121.62
STA 171+62.36, 28.39
EL=121.58
STA 171+72.01, 19.00
EL=121.56G, 121.79
STA 171+58.47, 23.92
EL=121.69
STA 171+77.61, 21.26
EL=122.05
STA 171+57.16, 22.41
EL=121.44
STA 171+79.29, 19.30
EL=121.63
STA 171+59.14, 28.40
EL=121.53
STA 171+72.01, 27.40
EL=121.83
STA 171+54.85, 28.08
EL=121.66T, 121.33G
STA 171+53.13, 26.98
EL=121.41
STA 171+52.87, 32.02
EL=121.22
STA 171+77.61, 27.40
EL=122.09
STA 171+72.01, 32.40
EL=121.88
STA 171+50.95, 31.31
EL=121.30
STA 171+77.61, 32.40
EL=122.14
STA 171+49.61, 36.69
EL=121.17
STA 171+67.37, 28.40
EL=121.62
STA 171+51.57, 37.10
EL=121.19
STA 171+67.38, 32.40
EL=121.66
STA 171+62.36, 32.40
EL=121.63
STA 171+58.31, 32.21
EL=121.57
STA 171+61.34, 37.21
EL=121.54
STA 171+57.25, 37.22
EL=121.48
STA 171+59.84, 44.25
EL=121.56
STA 171+53.42, 37.22
EL=121.21
STA 171+54.95, 43.21
EL=121.51

CURB RAMP TYPE 3 MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 26	E

2

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

CURB RAMP TYPE 7A MODIFIED

CURB RAMP TYPE 7A MODIFIED

STA 175+10.27, -29.81
EL=124.69

STA 175+07.44, -30.04
EL=124.69T

STA 175+07.39, -29.54
EL=124.22

STA 175+07.00, -25.04
EL=124.15

STA 175+00.44, -30.54
EL=124.65

STA 175+12.69, -30.02
EL=124.69T

STA 175+12.74, -29.52
EL=124.19

STA 175+12.68, -25.00
EL=124.12

STA 175+20.18, -30.62
EL=124.68

STA 175+61.39, -32.14
EL=124.59T

STA 175+61.39, -31.64
EL=124.02B

STA 175+56.07, -32.10
EL=124.62T

STA 175+56.07, -31.60
EL=124.04

STA 175+68.67, -32.14
EL=124.55T, 124.49

STA 175+48.40, -31.96
EL=124.65T, 124.54

STA 175+73.67, -32.14
EL=124.52T, 124.47

STA 174+86.85, -31.26
EL=124.83

1.5%

1%

STA 174+86.57, -25.27
EL=127.74

1%

0.7%

7%

0.5%

1.5%

1.5%

7%

1.5%

2.1%

STA 175+20.05, -25.59
EL=124.61

STA 175+48.55, -25.58
EL=124.47G, 124.45T

7%

1%

1.5%

6.5%

1.5%

1.5%

6.7%

STA 175+73.64, -25.56
EL=123.89G, 124.39T

STA 175+73.64, -23.00
EL=123.97

STA 175+48.55, -23.00
EL=124.05

STA 175+56.12, -25.00
EL=123.95

STA 175+56.12, -23.00
EL=124.03

STA 175+20.05, -23.15
EL=124.57T, 124.07G

STA 175+20.25, -21.15
EL=124.15

STA 175+68.64, -25.58
EL=123.91G, 124.41T

STA 175+68.64, -23.00
EL=123.99

STA 175+61.38, -25.00
EL=123.93

STA 175+61.38, -23.00
EL=124.01

STA 174+86.37, -18.86
EL=124.68T, 124.18G

STA 174+86.53, -17.00
EL=124.26

STA 175+12.65, -23.00
EL=124.09

STA 175+12.95, -20.44
EL=124.17

175

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

176

STA 175+00.58, -21.01
EL=124.13G, 124.57T

STA 175+00.85, -19.03
EL=124.21

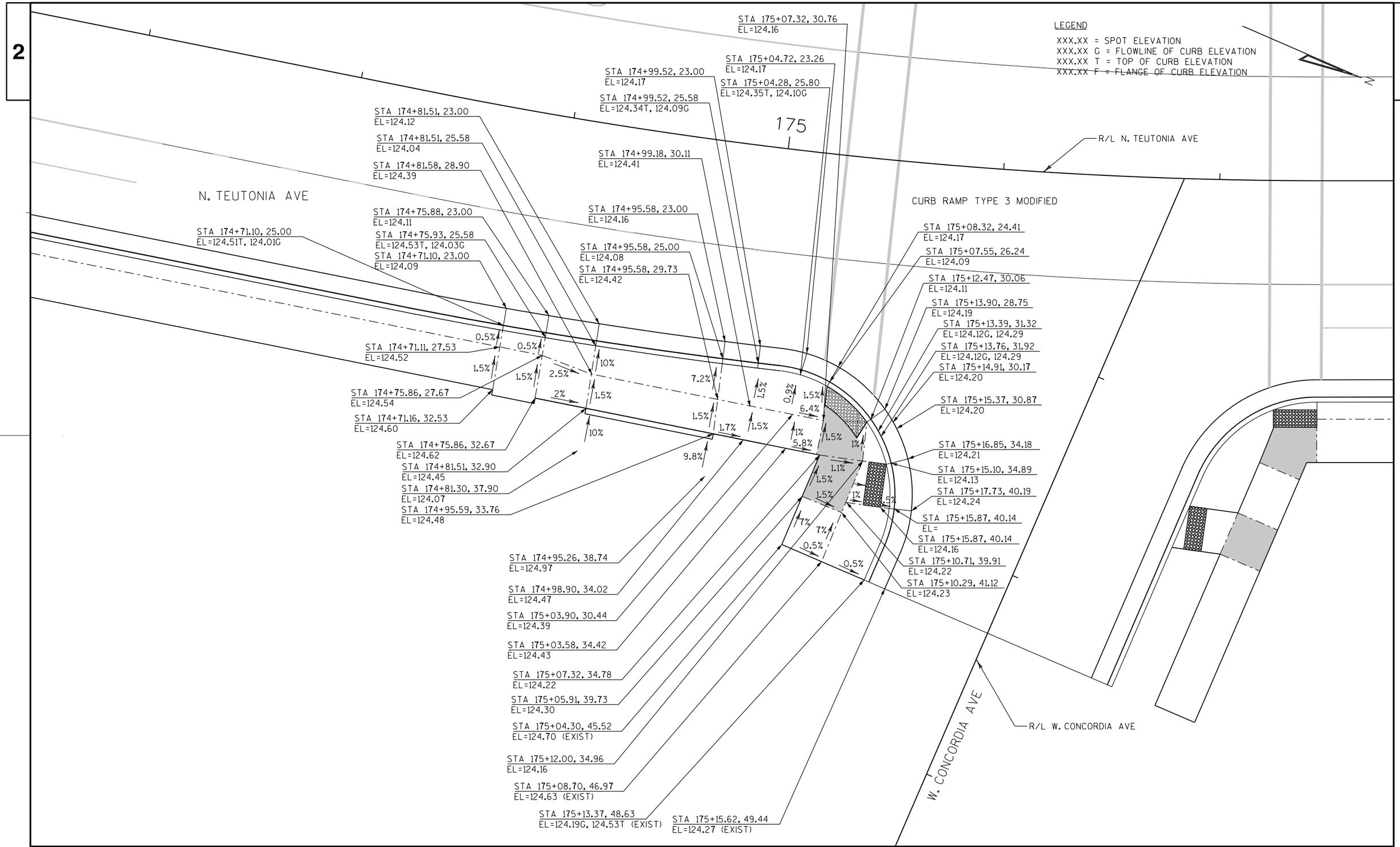
STA 175+07.57, -21.86
EL=124.11

STA 175+07.82, -19.87
EL=124.19

STA 175+00.08, -24.55
EL=124.61

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 27	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021061_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 28	E

2

2

175

176

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

R/L W. CONCORDIA AVE

W. CONCORDIA AVE

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

STA 175+74.62, 23.00
EL=124.09

STA 175+74.62, 25.00
EL=124.51T, 124.01G

STA 175+74.62, 27.57
EL=124.52

STA 175+74.62, 32.58
EL=124.60

STA 175+80.62, 23.00
EL=124.06

STA 175+80.62, 25.00
EL=123.98G

STA 175+80.62, 28.58
EL=124.35

STA 175+90.82, 23.00
EL=124.02

STA 175+90.82, 25.00
EL=123.94G

STA 175+96.82, 23.00
EL=123.98

STA 175+96.82, 25.00
EL=124.40T, 123.90G

STA 175+55.63, 24.10
EL=124.12

STA 175+56.31, 25.96
EL=124.04

STA 175+56.51, 26.51
EL=124.05

STA 175+61.28, 23.00
EL=124.14

STA 175+61.28, 25.00
EL=124.06

STA 175+61.27, 26.50
EL=124.08

STA 175+61.26, 28.48
EL=124.22

STA 175+56.52, 28.49
EL=124.19

STA 175+55.05, 32.62
EL=124.26

STA 175+51.43, 29.29
EL=124.52T, 124.02G

STA 175+50.08, 27.88
EL=124.10

STA 175+48.98, 29.18
EL=124.09

STA 175+50.45, 30.44
EL=124.51T, 124.01G

STA 175+53.92, 35.55
EL=124.31

STA 175+52.79, 38.48
EL=124.15

STA 175+49.45, 38.06
EL=124.15

STA 175+45.35, 36.89
EL=124.07

STA 175+47.09, 37.62
EL=123.99

STA 175+47.59, 37.84
EL=124.01

STA 175+45.32, 42.45
EL=123.97

STA 175+43.59, 41.72
EL=124.05

STA 175+42.89, 49.21
EL=124.49T, 123.99G

STA 175+41.18, 48.49
EL=124.07

STA 175+61.25, 32.59
EL=124.28

STA 175+60.18, 32.57
EL=134.30

STA 175+59.39, 34.56
EL=124.33

STA 175+58.29, 37.32
EL=124.38

STA 175+57.09, 40.39
EL=124.33

STA 175+55.24, 45.18
EL=124.38

STA 175+50.97, 43.28
EL=124.30

STA 175+48.93, 43.03
EL=124.14

STA 175+47.09, 42.81
EL=124.00

STA 175+52.19, 53.28
EL=124.65

STA 175+47.97, 51.40
EL=124.57

STA 175+96.81, 27.58
EL=124.41

STA 175+96.81, 32.58
EL=124.49

STA 175+90.81, 28.58
EL=124.33

STA 175+90.81, 32.58
EL=124.39

STA 175+88.55, 37.58
EL=124.94

STA 175+80.62, 32.58
EL=124.41

STA 175+78.18, 37.57
EL=124.97

0.5% 10.6% 10.8% 1.3% 0.5%
2.2% 1.5% 2.8% 1.5% 1.5% 1.5% 0.8% 1.5%
2% 2.3% 1.5%
10% 10%
5.2% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.8% 1.5% 2.8% 1.5% 1.5% 1% 1% 1.5% 7% 7% 1.5% 3.1% 3.1% 1.5% 1.5%

CURB RAMP TYPE 3 MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 29	E

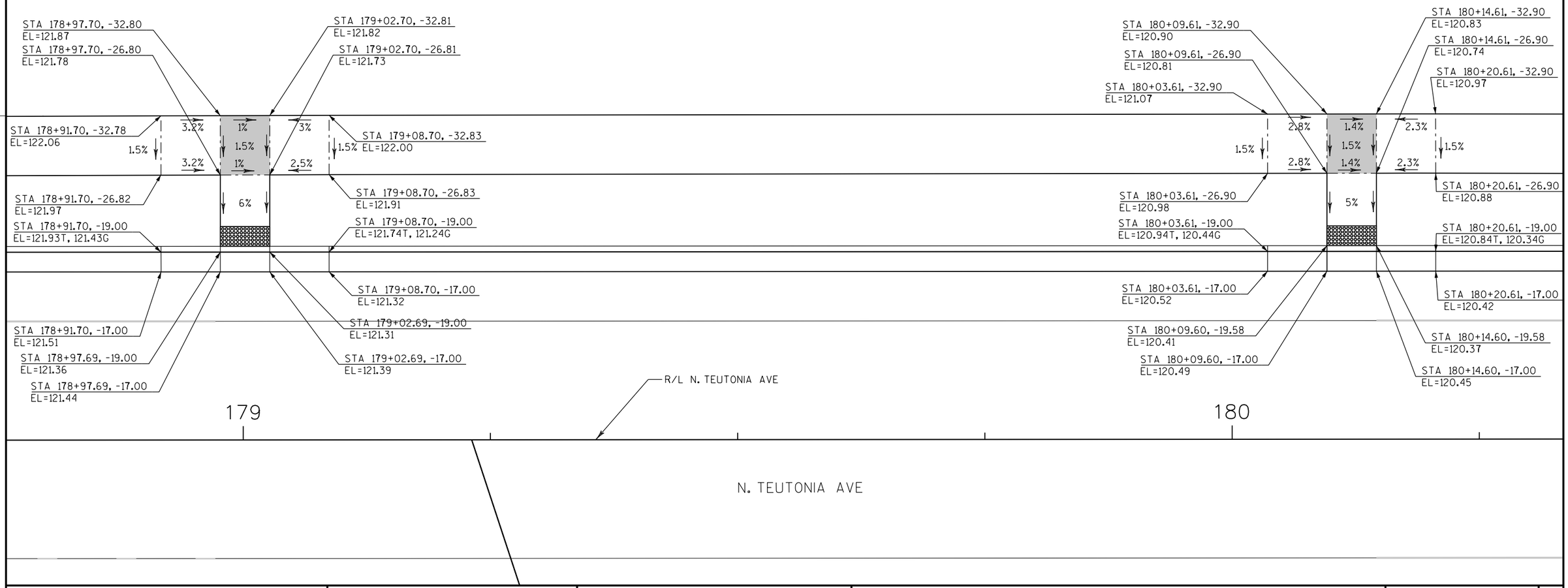
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021062A_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

CURB RAMP TYPE 7B MODIFIED



CURB RAMP TYPE 7B MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 30	E

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

179

180

N

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

R/L N. 18TH ST

N. 18TH ST

STA 178+84.67, 25.58
EL=121.89T, 121.39

STA 178+84.67, 27.74
EL=121.90

STA 178+84.67, 23.00
EL=121.47

STA 178+84.67, 32.74
EL=121.98

STA 178+91.67, 23.00
EL=121.39

STA 178+91.67, 25.58
EL=121.72T, 121.22G

STA 178+91.67, 27.74
EL=121.73

STA 178+91.67, 32.74
EL=121.81

STA 178+97.67, 23.00
EL=121.32

STA 178+97.67, 25.00
EL=121.24

STA 179+02.67, 23.00
EL=121.27

STA 179+02.67, 25.00
EL=121.19

STA 179+02.67, 27.75
EL=121.33

STA 179+07.91, 23.19
EL=121.20

STA 179+09.07, 23.40
EL=121.18

STA 179+07.53, 25.74
EL=121.29T, 121.12

STA 179+08.51, 25.93
EL=121.27T, 121.10

STA 179+14.36, 25.56
EL=121.08

STA 179+13.30, 27.26
EL=121.00

STA 179+20.09, 31.46
EL=120.94

STA 179+18.36, 32.46
EL=120.86

STA 179+08.51, 27.75
EL=121.15

STA 178+97.67, 27.74
EL=121.38

STA 178+97.67, 32.74
EL=121.46

STA 178+97.66, 36.44
EL=121.48

STA 179+02.67, 32.75
EL=121.41

STA 179+13.00, 27.75
EL=121.01

STA 179+13.00, 32.75
EL=120.94

STA 179+12.48, 40.53
EL=121.33

STA 179+08.75, 45.23
EL=121.42

STA 179+07.29, 48.57
EL=121.48 (EXIST)

STA 179+15.70, 43.09
EL=121.27

STA 179+11.97, 47.79
EL=121.36

STA 179+11.08, 49.90
EL=121.40 (EXIST)

STA 179+23.15, 39.36
EL=120.73G, 121.23T

STA 179+24.63, 38.02
EL=120.81

CURB RAMP TYPE 2 MODIFIED

STA 180+08.97, 17.62
EL=120.48

STA 180+09.44, 19.56
EL=120.40

STA 180+09.58, 20.13
EL=120.42

STA 180+14.58, 17.00
EL=120.45

STA 180+14.58, 19.00
EL=120.37

STA 180+14.58, 20.13
EL=120.39

STA 180+03.77, 22.59
EL=120.88T, 120.38G

STA 180+02.39, 20.41
EL=120.46

STA 180+01.56, 20.96
EL=120.45

STA 180+14.58, 27.81
EL=120.54

STA 180+03.04, 23.08
EL=120.87T, 120.37G

STA 179+98.29, 27.80
EL=120.32

STA 179+97.82, 27.46
EL=120.30

STA 179+96.18, 26.31
EL=120.38

STA 180+25.41, 25.00
EL=120.67T, 120.17G

STA 180+26.15, 23.00
EL=120.25

STA 179+95.20, 32.61
EL=120.23

STA 179+93.30, 31.97
EL=120.31

STA 180+25.20, 32.58
EL=120.78

STA 180+09.58, 27.80
EL=120.49

STA 180+14.57, 32.81
EL=120.61

STA 179+98.29, 32.80
EL=120.28

STA 179+92.28, 36.60
EL=120.26

STA 179+94.85, 36.88
EL=120.68

STA 180+09.57, 32.80
EL=120.56

STA 179+95.44, 45.99
EL=120.56T, 120.06G

STA 179+93.55, 46.72
EL=120.14

STA 180+16.32, 33.78
EL=120.64

STA 180+13.40, 39.02
EL=120.61

STA 180+09.57, 36.89
EL=120.59

CURB RAMP TYPE 2 MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 31	E

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

CURB RAMP TYPE 7B MODIFIED

STA 185+86.95, -27.00
EL=118.06

STA 185+79.96, -33.00
EL=118.50, 118.30T

STA 185+86.95, -33.00
EL=118.44T

STA 185+86.95, -32.50
EL=118.14

STA 185+91.96, -33.00
EL=118.41T

STA 185+91.96, -32.50
EL=118.12

STA 185+98.96, -33.00
EL=118.38, 118.38T

STA 185+79.95, -27.00
EL=118.41

STA 185+98.95, -28.00
EL=118.33

STA 185+79.95, -23.32
EL=118.37T, 117.86G

STA 185+80.06, -20.74
EL=117.95

STA 185+98.98, -23.57
EL=118.31, 117.81G

STA 185+99.07, -21.57
EL=117.89

STA 185+91.95, -27.00
EL=118.04

STA 185+86.95, -23.85
EL=117.84

STA 185+91.95, -23.84
EL=117.82

STA 185+86.98, -23.04
EL=117.83

STA 185+91.98, -23.20
EL=117.80

STA 185+87.07, -21.04
EL=117.93

STA 185+92.07, -21.26
EL=117.91

4.9% 0.4% 3.3% 1% 1.5% 1.5% 1.5% 4.9% 3.5% 7% 7% 1% 1.5% 1.5% 0.5%

186

CURB RAMP TYPE 7A MODIFIED

STA 186+49.97, -33.00
EL=118.27T

STA 186+49.97, -32.50
EL=117.81

STA 186+49.97, -27.58
EL=117.74

STA 186+54.97, -33.00
EL=118.27T

STA 186+54.97, -32.50
EL=117.88

STA 186+54.97, -27.58
EL=117.81

STA 186+61.97, -33.02
EL=118.28, 118.28T

STA 186+42.97, -33.03
EL=118.27, 118.27T

STA 186+42.97, -28.00
EL=118.20

STA 186+42.97, -25.00
EL=118.14T, 117.64G

STA 186+61.97, -28.00
EL=118.20

STA 186+42.97, -23.00
EL=117.76

STA 186+49.97, -25.00
EL=117.62

STA 186+49.97, -23.00
EL=117.74

STA 186+61.97, -25.00
EL=118.18, 117.68G

STA 186+61.97, -23.00
EL=117.76

STA 186+55.03, -25.00
EL=117.63

STA 186+54.97, -23.00
EL=117.75

6.4% 0.4% 6.1% 1.5% 1.5% 1.5% 6.4% 6.1% 2.5% 4.7% 7% 1% 4% 6.25% 6.5% 6.25% 4%

R/L N. TEUTONIA AVE

187

N. TEUTONIA AVE

R/L W. KEEFE AVE

W. KEEFE AVE

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 32	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021065_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

186

187

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

R/L W. KEEFE AVE

W. KEEFE AVE

STA 185+87.09, 23.03
EL=118.05

STA 185+86.97, 25.02
EL=117.97

STA 185+86.93, 27.00
EL=118.00

STA 185+92.20, 26.48
EL=117.89

STA 185+93.13, 24.71
EL=117.97

STA 185+91.93, 29.00
EL=117.94T, 117.81G

STA 185+94.72, 29.00
EL=117.98

STA 185+96.50, 27.12
EL=117.89

STA 185+97.18, 27.81
EL=117.88

STA 185+95.31, 29.59
EL=117.98T, 117.80G

STA 185+95.58, 33.09
EL=117.91

STA 185+97.58, 33.09
EL=117.77

STA 185+99.95, 32.07
EL=117.83

STA 185+98.11, 32.86
EL=117.75

STA 185+99.17, 38.10
EL=117.68

STA 186+01.17, 38.11
EL=117.76

STA 185+97.58, 38.09
EL=117.70

STA 185+95.58, 38.09
EL=117.84

STA 185+94.57, 40.26
EL=117.88

STA 185+98.74, 46.70
EL=117.66

STA 185+96.91, 45.90
EL=118.08T, 117.58G

STA 185+92.78, 44.10
EL=118.40

STA 185+89.95, 38.11
EL=117.92

STA 185+88.20, 42.10
EL=118.47

STA 185+75.05, 23.00
EL=118.09

STA 185+75.00, 25.00
EL=118.51T,118.01G

STA 185+69.98, 23.00
EL=118.10

STA 185+70.00, 25.00
EL=118.52T,118.02G

STA 185+75.00, 27.58
EL=118.53

STA 185+70.00, 32.58
EL=118.63

STA 185+70.00, 33.58
EL=118.64

STA 185+75.00, 32.58
EL=118.58

STA 185+75.00, 33.58
EL=118.59

STA 185+86.93, 29.00
EL=118.01

STA 185+86.93, 32.91
EL=118.03

STA 185+90.91, 33.00
EL=117.96

1% 1.5% 4.3% 1.5% 1.5% 1.1% 1% 4.6% 1% 0.5% 1.4% 1.5% 7% 1% 1.5% 0.8% 1.5% 7% 1.5% 5.2% 8.2%

CURB RAMP TYPE 3 MODIFIED

STA 186+46.16, 27.98
EL=117.97T, 117.64G

STA 186+45.46, 28.53
EL=117.94T, 117.61G

STA 186+44.96, 26.38
EL=117.72

STA 186+44.17, 27.00
EL=117.69

STA 186+46.96, 33.03
EL=117.81

STA 186+42.00, 32.75
EL=117.54

STA 186+40.25, 31.78
EL=117.62

STA 186+39.73, 37.80
EL=117.47

STA 186+37.85, 36.98
EL=117.55

STA 186+42.51, 38.03
EL=117.51

STA 186+36.39, 40.44
EL=117.50

STA 186+38.22, 41.24
EL=117.92T, 117.42G

STA 186+41.89, 42.85
EL=117.95

1.5% 1% 2.6% 2.1% 1.5% 2% 5.6% 0.5% 0.3% 0.5% 1.5% 6% 2.4% 1% 3.4% 1.5%

STA 186+49.00, 24.15
EL=117.77

STA 186+49.72, 26.01
EL=117.69

STA 186+49.93, 26.56
EL=117.71

STA 186+49.93, 28.56
EL=117.75

STA 186+54.90, 23.00
EL=117.85

STA 186+54.93, 25.00
EL=117.77

STA 186+54.93, 26.56
EL=117.79

STA 186+59.93, 23.00
EL=117.83

STA 186+59.93, 25.00
EL=118.08T, 117.76G

STA 186+65.06, 23.00
EL=117.81

STA 186+65.06, 25.58
EL=117.73G,118.23T

STA 186+65.06, 27.58
EL=118.24

STA 186+59.93, 27.58
EL=118.01

STA 186+65.05, 32.58
EL=118.32

STA 186+59.92, 32.59
EL=118.12

STA 186+54.93, 28.56
EL=117.81

STA 186+54.92, 32.56
EL=117.87

STA 186+54.65, 33.01
EL=117.88

STA 186+53.55, 34.84
EL=117.87

STA 186+49.92, 33.02
EL=117.82

STA 186+50.54, 39.82
EL=117.84

STA 186+46.96, 38.03
EL=117.78

STA 186+42.51, 33.03
EL=117.81

STA 186+47.74, 45.40
EL=118.05

1.3% 1% 0.5% 0.5% 5.5% 1.5% 1.5% 6%

CURB RAMP TYPE 3 MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 33	E

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

W. KEEFE AVE

R/L W. KEEFE AVE

CURB RAMP TYPE 3 MODIFIED

CURB RAMP TYPE 1 MODIFIED

STA 188+34.72, -64.28
EL=117.55

STA 188+30.18, -66.28
EL=117.76

STA 188+27.00, -37.91
EL=117.34

STA 188+17.47, -47.26
EL=117.77 (EXIST)

STA 188+23.09, -37.89
EL=117.61

STA 188+18.51, -39.91
EL=117.68

STA 188+14.95, -41.49
EL=117.95 (EXIST)

STA 188+16.29, -34.91
EL=117.76

STA 188+12.65, -36.52
EL=118.19 (EXIST)

STA 188+15.39, -32.86
EL=117.79

STA 188+13.62, -28.85
EL=117.64

STA 188+08.12, -32.82
EL=117.65

STA 187+99.66, -32.78
EL=117.95

STA 187+99.70, -25.00
EL=117.45G, 117.88T

STA 187+99.70, -23.00
EL=117.53

STA 188+06.70, -25.00
EL=117.49

STA 188+06.70, -23.00
EL=117.57

STA 188+65.80, -45.08
EL=117.37

STA 188+67.14, -41.84
EL=

STA 188+65.15, -42.01
EL=117.39

STA 188+21.06, -45.68
EL=117.84

STA 188+25.63, -43.65
EL=117.79

STA 188+31.35, -41.16
EL=117.76T, 117.26G

STA 188+33.16, -40.36
EL=117.34

STA 188+31.67, -36.89
EL=117.34

STA 188+29.83, -37.69
EL=117.31

STA 188+27.54, -32.62
EL=117.35

STA 188+29.28, -31.64
EL=117.43

STA 188+25.03, -32.90
EL=117.47

STA 188+20.87, -32.88
EL=117.71

STA 188+19.10, -28.87
EL=117.78

STA 188+20.23, -26.15
EL=117.94T, 117.44G

STA 188+21.00, -24.30
EL=117.52

STA 188+18.41, -23.46
EL=117.54

STA 188+17.95, -25.41
EL=117.46G, 117.46T

STA 188+12.17, -25.00
EL=117.52

STA 188+12.17, -23.00
EL=117.60

STA 188+08.14, -28.82
EL=117.58

STA 188+66.49, -46.91
EL=117.36

STA 188+67.71, -44.48
EL=117.59T, 117.29G

STA 188+68.32, -46.09
EL=

STA 188+73.69, -39.55
EL=117.91

STA 188+68.65, -33.22
EL=117.37

STA 188+66.86, -32.31
EL=117.45

STA 188+77.97, -33.84
EL=117.90

STA 188+76.17, -48.12
EL=117.71 (EXISTING)

STA 188+76.49, -45.98
EL=117.82

STA 188+80.89, -46.06
EL=117.86 (EXISTING)

STA 188+80.16, -44.38
EL=117.88

STA 188+74.89, -42.31
EL=117.88

STA 188+78.56, -40.71
EL=117.94

STA 188+74.97, -37.84
EL=117.88

STA 188+81.60, -36.66
EL=117.96

STA 188+80.06, -32.97
EL=117.90

STA 188+79.30, -23.22
EL=117.41

STA 188+71.77, -29.06
EL=117.35

STA 188+70.40, -27.60
EL=117.43

STA 188+91.47, -32.55
EL=117.97

STA 188+91.36, -32.05
EL=117.88

STA 188+89.55, -33.34
EL=118.09

STA 188+91.47, -27.68
EL=117.81

STA 188+91.46, -25.00
EL=117.70

STA 188+91.47, -23.00
EL=117.28

STA 188+82.27, -27.68
EL=117.99

STA 188+82.27, -25.00
EL=117.81T, 117.31G

STA 188+82.27, -23.06
EL=117.39

188

189

50

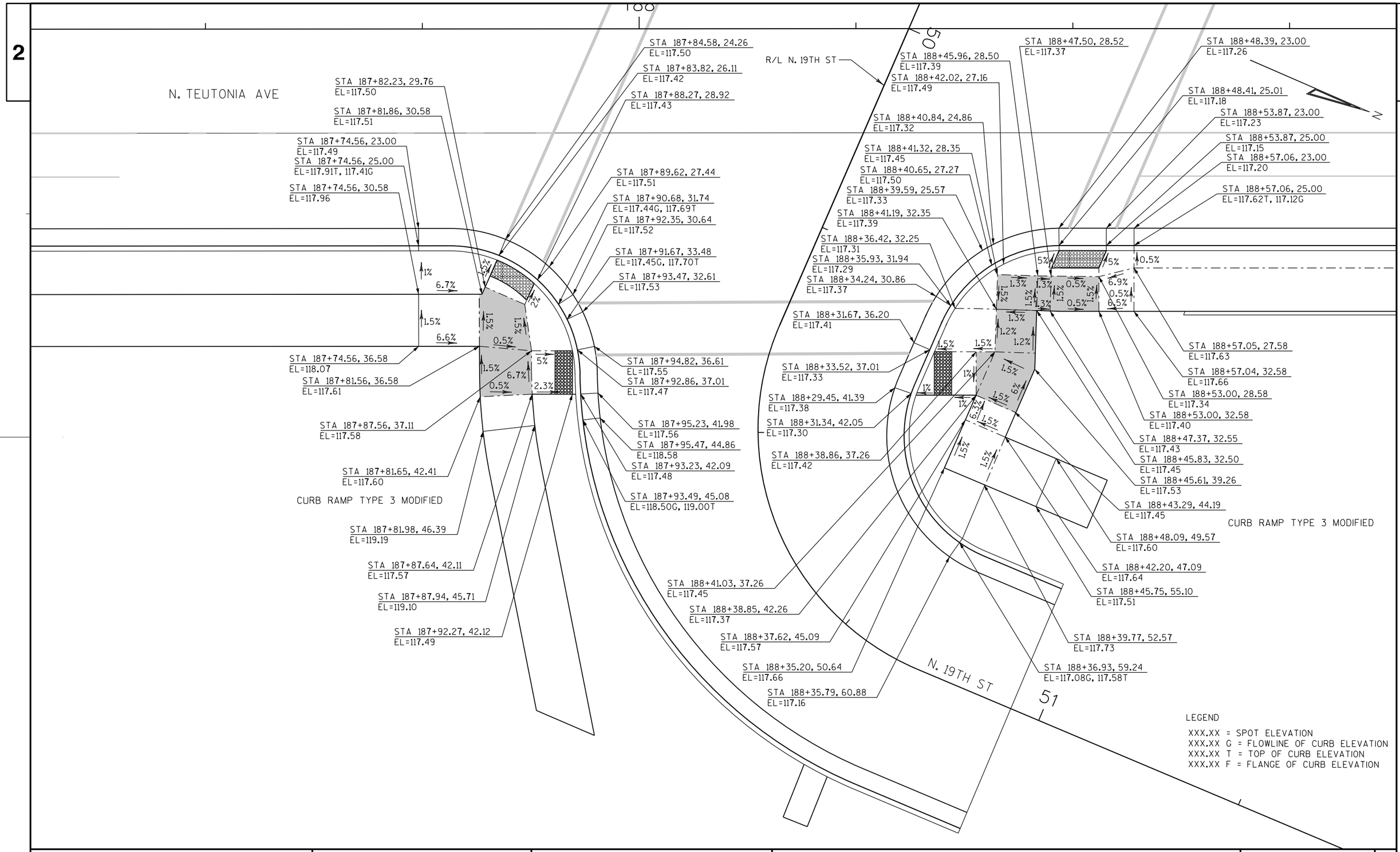
R/L N. TEUTONIA AVE

N. TEUTONIA AVE

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 34	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021066_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 35	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021067_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

2

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

R/L W. FINN ST

W. FINN ST

CURB RAMP TYPE 4B1 MODIFIED

STA 192+37.32, -38.91
EL=116.56
STA 192+31.83, -41.31
EL=116.69
STA 192+35.81, -31.99
EL=116.19
STA 192+32.12, -32.00
EL=116.32
STA 192+28.46, -33.60
EL=116.37
STA 192+27.76, -32.01
EL=116.38
STA 192+27.75, -27.01
EL=116.33,116.80T
STA 192+21.76, -32.02
EL=116.41
STA 192+21.75, -27.02
EL=116.33
STA 192+21.75, -19.04
EL=116.44G, 116.77
STA 192+21.75, -17.03
EL=116.52
STA 192+41.52, -37.07
EL=116.54T, 116.04G
STA 192+43.36, -36.27
EL=116.12
STA 192+39.21, -31.77
EL=116.14
STA 192+41.08, -31.05
EL=116.22
STA 192+36.26, -26.63
EL=116.26
STA 192+37.83, -25.39
EL=116.34
STA 192+35.80, -26.99
EL=116.27
STA 192+32.11, -27.00
EL=116.29
STA 192+27.95, -20.42
EL=116.64T, 116.34G
STA 192+28.69, -18.57
EL=116.47
1.5%
1.1%
3.7%
0.5%
1.5%
1%
1.5%
3.2%
1.5%
0.2%
1%
0.5%
5.9%

CURB RAMP TYPE 1 MODIFIED

STA 192+76.68, -47.61
EL=115.81
STA 192+78.52, -46.81
EL=116.23
STA 192+83.17, -44.77
EL=116.25
STA 192+88.21, -42.57
EL=116.28
STA 192+83.25, -38.57
EL=115.94
STA 192+88.22, -38.57
EL=115.99
STA 192+83.15, -32.98
EL=115.86
STA 192+88.22, -32.98
EL=115.91
STA 192+92.68, -32.98
EL=115.49
STA 192+77.24, -36.90
EL=115.90T, 115.73G
STA 192+75.28, -36.48
EL=115.81
STA 192+78.31, -33.68
EL=115.75G, 116.05T
STA 192+76.50, -32.83
EL=115.80
STA 192+82.89, -31.42
EL=115.84
STA 192+81.33, -29.37
EL=115.70
STA 192+79.92, -27.95
EL=115.78
STA 192+85.60, -26.39
EL=115.68
STA 192+84.76, -24.58
EL=115.76
STA 192+86.99, -28.56
EL=115.82
0.5%
0.5%
0.7%
1%
1.5%
1.5%
1%
7%
4.5%
7%
1.5%
1.5%
5%
5.3%
5.5%
1%
0.5%
STA 193+01.94, -32.98
EL=116.45
STA 193+01.94, -27.99
EL=116.40
STA 193+01.94, -25.00
EL=115.89G, 116.39T
STA 193+01.94, -23.00
EL=115.97
STA 192+92.68, -27.98
EL=115.91
STA 192+91.03, -25.03
EL=115.82G, 116.07T
STA 192+91.03, -23.00
EL=115.90
STA 192+88.22, -27.98
EL=115.84

CURB RAMP TYPE 7A MODIFIED

STA 193+56.13, -32.99
EL=115.81 (EXIST)
STA 193+56.13, -27.99
EL=115.76
STA 193+49.13, -32.99
EL=115.77
STA 193+49.13, -28.99
EL=115.71
STA 193+44.13, -32.99
EL=115.84 (EXIST)
STA 193+44.13, -28.99
EL=115.78
STA 193+37.13, -32.99
EL=116.15
STA 193+37.13, -27.99
EL=116.10
STA 193+37.13, -25.00
EL=116.08T, 115.58G
STA 193+37.13, -23.00
EL=115.66
STA 193+44.13, -25.00
EL=115.54G
STA 193+44.13, -23.00
EL=115.62
STA 193+49.14, -25.00
EL=115.52G
STA 193+49.14, -23.00
EL=115.60
STA 193+56.13, -25.00
EL=115.73T, 115.48G
STA 193+56.13, -23.00
EL=115.56
4.4%
1%
1.5%
1.5%
1.5%
0.6%
1%
4.5%
6%
1.5%
6%
0.7%
1%
1.3%

R/L N. TEUTONIA AVE

193

R/L W. FINN ST

N. TEUTONIA AVE

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 36	E

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

R/L N. TEUTONIA AVE

193 N. TEUTONIA AVE

STA 192+68.47, 27.58
EL=115.59
STA 192+74.33, 23.00
EL=115.51
STA 192+74.33, 25.00
EL=115.68T, 115.43G
STA 192+74.33, 28.08
EL=115.82T, 115.60G
STA 192+81.05, 23.67
EL=115.44
STA 192+80.49, 25.59
EL=115.74T, 115.36G
STA 192+80.33, 28.58
EL=115.57
STA 192+84.68, 28.58
EL=115.64
STA 192+85.48, 28.12
EL=115.60T, 115.27G
STA 192+86.70, 26.54
EL=115.35
STA 192+84.69, 33.18
EL=115.57
STA 192+89.03, 33.18
EL=115.27
STA 192+89.54, 32.91
EL=115.25
STA 192+91.30, 31.96
EL=115.33
STA 192+89.03, 38.18
EL=115.25
STA 192+91.23, 38.08
EL=115.16
STA 192+93.20, 37.71
EL=115.24
STA 192+91.69, 41.03
EL=115.44T, 114.94G
STA 192+93.68, 40.79
EL=115.15
STA 192+92.04, 48.10
EL=115.02T, 114.77G
STA 192+94.04, 48.15
EL=114.85
STA 192+93.26, 55.75
EL=114.48
STA 192+91.29, 55.39
EL=114.90T, 114.40G
STA 192+86.21, 41.71
EL=115.19

STA 192+69.35, 23.00
EL=115.53
STA 192+69.35, 25.00
EL=115.45
STA 192+63.89, 23.00
EL=115.56
STA 192+63.89, 25.00
EL=115.48
STA 192+63.02, 27.58
EL=115.62
STA 192+54.57, 23.00
EL=115.60
STA 192+54.57, 25.00
EL=115.82T, 115.52G
STA 192+49.57, 23.00
EL=115.63
STA 192+49.57, 25.00
EL=115.85T, 115.55G
STA 192+49.57, 27.58
EL=115.88
STA 192+54.57, 27.58
EL=115.85
STA 192+49.57, 33.00
EL=115.97
STA 192+54.57, 33.00
EL=115.92
STA 192+63.02, 32.08
EL=115.69
STA 192+63.02, 32.58
EL=115.89
STA 192+68.47, 32.08
EL=115.66
STA 192+68.47, 32.58
EL=115.88
STA 192+74.33, 32.58
EL=115.88
STA 192+80.33, 32.58
EL=115.62
STA 192+80.62, 33.18
EL=115.63
STA 192+81.65, 38.89
EL=115.55
STA 192+85.58, 38.18
EL=115.49
STA 192+82.24, 42.20
EL=115.27
STA 192+81.42, 47.84
EL=115.12
STA 192+80.39, 51.03
EL=115.08
STA 192+86.06, 47.95
EL=115.05
STA 192+85.99, 53.32
EL=115.00

CURB RAMP TYPE 3 MODIFIED

R/L W. FINN PL

W. FINN PL

STA 193+44.14, 33.18
EL=115.16
STA 193+40.42, 27.38
EL=115.34T,115.09G
STA 193+39.33, 25.70
EL=115.17
STA 193+39.50, 28.02
EL=115.34T,115.09G
STA 193+38.11, 26.57
EL=115.17
STA 193+43.35, 23.81
EL=115.16
STA 193+43.96, 25.71
EL=115.08
STA 193+44.14, 26.27
EL=115.10
STA 193+49.14, 23.00
EL=115.14
STA 193+49.14, 25.00
EL=115.06
STA 193+49.14, 26.27
EL=115.08
STA 193+61.14, 23.00
EL=115.08
STA 193+61.14, 25.00
EL=115.50T, 115.00G
STA 193+61.14, 32.58
EL=115.57
STA 193+35.82, 33.18
EL=115.04
STA 193+35.31, 32.90
EL=115.03
STA 193+33.55, 31.96
EL=115.11
STA 193+35.82, 38.18
EL=114.96
STA 193+33.06, 37.95
EL=114.92
STA 193+31.22, 37.15
EL=115.00
STA 193+30.89, 37.90
EL=114.99
STA 193+32.72, 38.70
EL=115.16
STA 193+28.09, 44.32
EL=114.86T,114.78G
STA 193+29.92, 45.12
EL=115.28
STA 193+49.14, 32.58
EL=115.17
STA 193+48.86, 33.18
EL=115.18
STA 193+46.68, 38.18
EL=115.10
STA 193+45.99, 39.78
EL=115.12
STA 193+42.32, 38.18
EL=115.08
STA 193+44.26, 43.74
EL=115.47
STA 193+38.76, 41.34
EL=115.38
STA 193+41.46, 50.15
EL=115.52
STA 193+35.96, 47.75
EL=115.43

CURB RAMP TYPE 3 MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 37	E

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

CURB RAMP TYPE 3 MODIFIED

CURB RAMP TYPE 1 MODIFIED

R/L W. NASH ST

W. NASH ST

STA 198+23.95, -41.47
EL=111.99

STA 198+22.36, -42.05
EL=112.41T, 111.91G

STA 198+19.36, -43.16
EL=112.42

STA 198+16.25, -44.30
EL=112.44

STA 198+12.90, -37.95
EL=112.11

STA 198+10.53, -32.54
EL=112.06

STA 198+08.76, -32.54
EL=112.04

STA 198+08.76, -28.54
EL=112.01

STA 198+03.10, -32.54
EL=112.08

STA 198+03.10, -28.54
EL=112.02

STA 197+95.52, -32.54
EL=112.55

STA 197+95.53, -27.58
EL=112.52

STA 197+95.53, -25.00
EL=112.51

STA 197+95.53, -23.00
EL=112.09

STA 198+01.53, -25.00
EL=112.00

STA 198+01.53, -23.00
EL=112.08

STA 198+07.31, -25.11
EL=111.99

STA 198+07.51, -23.12
EL=112.09

STA 198+11.62, -26.32
EL=112.15T, 111.98G

STA 198+16.41, -36.35
EL=112.05

STA 198+19.18, -35.76
EL=111.93

STA 198+21.53, -34.90
EL=112.01

STA 198+16.69, -31.18
EL=111.95

STA 198+18.84, -29.68
EL=112.03

STA 198+14.66, -31.65
EL=112.00

STA 198+15.01, -25.92
EL=112.05

STA 198+39.77, -27.54
EL=111.71

STA 198+41.51, -28.53
EL=111.63

STA 198+13.76, -27.49
EL=112.14T, 111.97G

STA 198+12.58, -29.11
EL=112.05

STA 198+12.44, -24.49
EL=112.06

STA 198+40.52, -37.46
EL=111.80

STA 198+42.12, -36.73
EL=111.89T, 111.73G

STA 198+44.96, -32.49
EL=111.70

STA 198+45.72, -32.99
EL=111.92T, 111.71

STA 198+51.13, -32.47
EL=111.64

STA 198+51.51, -32.96
EL=111.90T, 111.65

STA 198+57.84, -32.91
EL=111.80

STA 198+57.83, -28.45
EL=111.73

STA 198+57.83, -25.58
EL=111.80

STA 198+57.82, -23.00
EL=111.43

STA 198+52.86, -25.58
EL=111.78

STA 198+51.11, -25.00
EL=111.48G, 111.64T

STA 198+48.08, -28.48
EL=111.60

STA 198+51.12, -23.00
EL=115.56

STA 198+45.87, -25.21
EL=111.57

STA 198+45.38, -23.27
EL=111.65

198

N. TEUTONIA AVE

R/L N. TEUTONIA AVE

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 38	E

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

198

N. TEUTONIA AVE

R/L N. TEUTONIA AVE

W. NASH ST

R/L W. NASH ST

STA 197+79.98, 26.74
EL=112.04

STA 197+78.73, 28.30
EL=111.96

STA 197+74.81, 23.90
EL=112.13

STA 197+74.17, 25.80
EL=112.05

STA 197+70.65, 23.05
EL=122.22

STA 197+70.50, 25.04
EL=122.15G, 122.65T

STA 197+73.03, 28.13
EL=112.07

STA 197+70.45, 27.99
EL=112.09

STA 197+60.45, 23.00
EL=112.30

STA 197+60.45, 25.00
EL=112.64T, 112.22G

STA 197+55.45, 23.00
EL=112.33

STA 197+55.45, 25.00
EL=112.67T, 112.25G

STA 197+60.45, 32.98
EL=112.75

STA 197+55.45, 32.98
EL=112.78

STA 197+70.45, 32.99
EL=112.15

STA 197+73.95, 33.00
EL=

STA 197+75.17, 34.77
EL=112.07

STA 197+72.88, 39.77
EL=111.99

STA 197+72.02, 41.78
EL=112.03

CURB RAMP TYPE 3 MODIFIED

STA 197+70.02, 46.36
EL=112.07

STA 197+77.52, 44.18
EL=112.00

STA 197+68.78, 49.21
EL=111.63

STA 197+67.21, 52.82
EL=111.53

STA 197+74.28, 51.61
EL=111.57

STA 197+72.70, 55.21
EL=111.47

STA 197+75.52, 48.76
EL=112.04

STA 197+75.77, 68.39
EL=110.75

STA 197+76.09, 61.98
EL=110.90G, 111.40T

STA 197+77.92, 62.78
EL=110.98

STA 197+78.03, 57.55
EL=111.08G, 111.41T

STA 197+79.86, 58.35
EL=111.16

STA 197+81.44, 54.75
EL=111.32

STA 197+79.61, 53.95
EL=111.24G, 111.53T

STA 197+82.69, 51.91
EL=111.44

STA 197+80.85, 51.10
EL=111.86T, 111.36G

STA 197+84.70, 47.32
EL=111.64

STA 197+82.87, 46.52
EL=111.97T, 111.56G

STA 197+77.28, 39.77
EL=111.92

STA 197+86.34, 39.72
EL=111.90

STA 197+84.34, 39.75
EL=111.82

STA 197+83.32, 34.55
EL=111.91

STA 197+85.17, 33.80
EL=111.99

STA 197+79.82, 34.76
EL=112.00

STA 197+83.58, 30.70
EL=112.01

STA 197+81.90, 31.80
EL=112.10T, 111.93G

STA 197+82.67, 29.45
EL=112.02

STA 197+81.10, 30.69
EL=112.11T, 111.94G

STA 197+78.61, 32.66
EL=112.01

STA 197+77.41, 30.56
EL=112.00

STA 198+35.85, 23.00
EL=111.53

STA 198+35.85, 25.00
EL=111.45

STA 198+29.47, 23.93
EL=111.51

STA 198+30.12, 25.82
EL=111.43

STA 198+28.64, 31.49
EL=111.52

STA 198+25.26, 28.59
EL=111.56T, 111.39G

STA 198+23.96, 27.07
EL=111.47

STA 198+27.60, 34.68
EL=111.57

STA 198+23.70, 30.14
EL=111.55T, 111.36G

STA 198+22.19, 28.82
EL=111.44

STA 198+23.58, 34.70
EL=111.40

STA 198+21.58, 34.71
EL=111.26

STA 198+21.05, 34.48
EL=111.24

STA 198+19.21, 33.68
EL=111.32

STA 198+17.04, 38.69
EL=111.22

STA 198+18.88, 39.49
EL=111.14

STA 198+15.85, 41.44
EL=111.16

STA 198+17.68, 42.24
EL=111.08G, 111.58T

STA 198+35.20, 27.58
EL=111.49

STA 198+35.20, 32.58
EL=111.97

STA 198+42.84, 23.00
EL=111.45

STA 198+42.85, 25.00
EL=111.87T, 111.37G

STA 198+42.94, 27.58
EL=111.97

STA 198+42.88, 32.58
EL=112.05

STA 198+35.88, 32.58
EL=111.67

STA 198+34.80, 33.70
EL=111.69

STA 198+33.40, 33.04
EL=111.58

STA 198+33.17, 37.13
EL=111.73

STA 198+31.90, 36.53
EL=111.63

STA 198+31.91, 40.96
EL=111.66

STA 198+30.27, 40.30
EL=111.57

STA 198+29.82, 41.35
EL=111.55

STA 198+25.96, 39.69
EL=111.49

STA 198+21.61, 39.71
EL=111.18

CURB RAMP TYPE 3 MODIFIED

STA 198+25.75, 50.78
EL=111.60

STA 198+20.24, 48.41
EL=111.54

STA 198+15.83, 46.50
EL=111.50T, 111.00G

STA 198+13.80, 45.70
EL=111.08

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 39	E

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

CURB RAMP TYPE 1 MODIFIED

STA 202+76.78, -38.81
EL=107.56
STA 202+71.89, -39.86
EL=107.61
STA 202+71.57, -33.95
EL=107.52
STA 202+70.75, -34.53
EL=107.53
STA 202+60.83, -33.00
EL=107.87
STA 202+72.95, -44.82
EL=107.83
STA 202+74.60, -43.65
EL=107.81
STA 202+82.31, -38.51
EL=107.72T, 107.22G
STA 202+84.30, -38.32
EL=107.30
STA 202+78.77, -34.96
EL=107.37
STA 202+80.92, -33.55
EL=107.24
STA 202+82.73, -32.69
EL=107.32
STA 202+76.33, -36.70
EL=107.53
STA 202+75.87, -30.89
EL=107.40
STA 202+77.91, -29.31
EL=107.27
STA 202+79.31, -27.89
EL=107.35
STA 202+83.88, -3.00
EL=107.39
STA 202+84.16, -1.00
EL=107.42
STA 202+88.94, -3.00
EL=107.32
STA 202+89.21, -1.00
EL=107.35
STA 202+89.47, 1.00
EL=107.26
STA 202+60.83, -25.00
EL=107.83T, 107.33G
STA 202+60.83, -23.00
EL=107.41
STA 202+70.71, -25.97
EL=107.81T, 107.31G
STA 202+71.30, -23.46
EL=107.39
STA 202+75.19, -31.37
EL=107.45
R/L N. TEUTONIA AVE
R/L N. 20TH ST
202
203
N. TEUTONIA AVE
R/L W. VIENNA AVE
CURB RAMP TYPE 5 MODIFIED
STA 202+84.43, 1.00
EL=107.34
STA 202+84.70, 3.00
EL=107.32
STA 202+89.73, 3.00
EL=107.23
STA 202+88.76, 33.82
EL=106.57
STA 202+84.54, 29.79
EL=106.53T, 106.36G
STA 202+83.07, 28.43
EL=106.44
STA 202+83.92, 30.51
EL=106.53T, 106.35G
STA 202+82.37, 29.25
EL=106.43
STA 202+82.52, 33.82
EL=106.33
STA 202+81.99, 33.58
EL=106.31
STA 202+80.18, 32.72
EL=106.39
STA 202+80.61, 38.78
EL=106.26
STA 202+78.62, 38.62
EL=106.34
STA 202+78.35, 43.50
EL=106.25
STA 202+80.34, 43.66
EL=106.47T, 106.17G
STA 202+86.61, 25.45
EL=106.48
STA 202+87.64, 27.16
EL=106.40
STA 202+87.94, 27.66
EL=106.42
STA 202+88.20, 29.64
EL=106.53
STA 202+92.27, 23.29
EL=106.46
STA 202+92.64, 25.26
EL=106.38
STA 202+92.90, 27.00
EL=106.41
STA 202+99.74, 23.00
EL=106.31
STA 202+99.74, 25.00
EL=106.73T, 106.23G
STA 202+99.74, 28.12
EL=106.83
STA 202+93.16, 28.99
EL=106.53
STA 202+99.74, 32.97
EL=106.90
STA 202+93.81, 33.88
EL=106.60
STA 202+93.76, 38.88
EL=106.56
STA 202+88.48, 38.82
EL=106.53
STA 202+82.53, 38.82
EL=106.29
STA 202+93.50, 44.78
EL=106.54
STA 202+88.08, 44.32
EL=106.51
CURB RAMP TYPE 3 MODIFIED

STA 202+44.95, 25.87
EL=107.31
STA 202+44.56, 25.62
EL=107.32
STA 202+43.51, 28.02
EL=107.52T, 107.23G
STA 202+43.18, 27.81
EL=107.53
STA 202+40.17, 23.66
EL=107.40
STA 202+39.61, 25.58
EL=107.57
STA 202+34.45, 23.00
EL=107.48
STA 202+34.45, 25.00
EL=107.71
STA 202+34.46, 27.83
EL=107.74
STA 202+27.44, 23.00
EL=107.59
STA 202+27.45, 25.00
EL=108.01
STA 202+43.52, 31.81
EL=107.46
STA 202+43.52, 33.91
EL=107.43
STA 202+47.86, 31.53
EL=107.44T, 107.13G
STA 202+49.51, 30.40
EL=107.21
STA 202+49.08, 33.65
EL=107.09
STA 202+50.89, 32.80
EL=107.17
STA 202+48.55, 33.90
EL=107.10
STA 202+48.56, 38.90
EL=107.02
STA 202+52.44, 38.70
EL=107.07
STA 202+50.44, 38.85
EL=106.99
STA 202+49.43, 46.89
EL=107.22T, 106.72G
STA 202+51.39, 47.30
EL=106.80
STA 202+27.48, 31.84
EL=107.93
STA 202+39.46, 27.82
EL=107.58
STA 202+34.47, 31.87
EL=107.80
STA 202+39.52, 31.89
EL=107.52
STA 202+39.52, 33.92
EL=107.49
STA 202+39.53, 38.92
EL=107.41
STA 202+43.53, 38.91
EL=107.35
STA 202+37.65, 43.82
EL=107.50
STA 202+43.55, 45.33
EL=107.41
CURB RAMP TYPE 4B1 MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 40	E

2

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

W. VIENNA AVE

STA 203+38.74, -86.05
EL=106.96
STA 203+40.61, -85.23
EL=107.76
STA 203+46.82, -82.52
EL=107.30
STA 203+52.72, -79.96
EL=107.16
STA 203+36.27, -75.28
EL=106.82
STA 203+37.41, -74.75
EL=106.84
STA 203+41.96, -72.54
EL=106.92
STA 203+47.92, -69.92
EL=107.02
STA 203+34.44, -76.08
EL=106.90
STA 203+32.68, -70.71
EL=106.88
R/L W. VIENNA AVE
STA 203+34.65, -70.36
EL=106.80
STA 203+35.22, -70.25
EL=106.82
STA 203+32.68, -63.58
EL=106.75

1% 1% 4.4% 1.5% 4% 1.5% 0.4% 1.5% 4.5% 0.8% 0.5%

CURB RAMP TYPE 4B1 MODIFIED

N. 20TH ST

STA 203+34.65, -63.94
EL=106.92T, 106.67G
STA 203+39.77, -68.04
EL=106.90
STA 203+43.76, -65.59
EL=106.97
STA 203+38.34, -52.88
EL=106.37
STA 203+39.75, -54.31
EL=106.25G, 106.75T
STA 203+55.16, -39.17
EL=105.25G, 105.75T
STA 203+53.76, -37.74
EL=105.33
STA 203+62.28, -32.17
EL=105.16
STA 203+60.88, -30.74
EL=105.24
STA 203+68.09, -27.08
EL=105.04
R/L N. 20TH ST
STA 203+67.07, -25.36
EL=105.12
STA 203+69.40, -27.58
EL=105.18, 105.68T
STA 203+70.49, -25.94
EL=105.01G, 105.26T
STA 203+69.79, -24.06
EL=105.09
R/L N. TEUTONIA AVE

1.8% 1% 1% 5.9% 7.2% 1% 0.8% 1% 0.5% 1.5% 1% 1.5% 1.5% 1.5% 2.4% 5.6%

STA 203+70.83, -39.58
EL=106.03
STA 203+74.98, -43.91
EL=106.09
STA 203+69.40, -32.58
EL=105.23
STA 203+82.27, -36.91
EL=105.40
STA 203+78.11, -32.58
EL=105.31
STA 203+86.77, -32.58
EL=105.35
STA 203+86.54, -27.59
EL=105.27, 105.77T
STA 203+86.54, -25.00
EL=105.13T, 104.53G
STA 203+99.96, -25.00
EL=104.07G, 104.67T
STA 203+99.96, -23.00
EL=104.15
STA 203+93.54, -25.02
EL=104.31G, 104.81T
STA 203+93.54, -23.00
EL=104.39
STA 203+86.54, -23.00
EL=104.61
STA 203+78.11, -27.59
EL=105.23, 105.73T
STA 203+78.11, -25.00
EL=105.17, 104.83G
STA 203+78.11, -23.00
EL=104.91

CURB RAMP TYPE 4B1 MODIFIED

STA 204+50.00, -32.58
EL=103.43
STA 204+50.00, -27.58
EL=103.35
STA 204+25.00, -32.58
EL=104.01
STA 204+25.00, -27.58
EL=103.93
STA 204+25.00, -25.00
EL=103.19G, 103.79T
STA 204+25.00, -23.00
EL=103.27
STA 204+50.00, -25.00
EL=102.61G, 103.21T
STA 204+50.00, -23.00
EL=102.69

203

204

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 41	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021073_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

2

TWO WAY

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

205

206

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

R/L N. 20TH ST

N. 20TH ST

CURB RAMP TYPE 4B1 MODIFIED

STA 205+24.88, 23.00
EL=101.85

STA 205+24.88, 25.00
EL=102.27T, 101.77G

STA 205+17.33, 23.00
EL=101.86

STA 205+24.88, 32.26
EL=101.90, 102.40T

STA 205+17.33, 25.00
EL=102.28T, 101.78G

STA 205+31.93, 32.26
EL=101.79

STA 205+35.77, 28.82
EL=102.09T, 101.59G

STA 205+17.33, 32.27
EL=102.01, 102.51T

STA 205+37.11, 27.33
EL=101.67

STA 205+37.93, 32.25
EL=101.49

STA 205+38.42, 31.94
EL=101.47

STA 205+40.06, 30.80
EL=101.55

STA 205+42.54, 36.34
EL=101.39

STA 205+40.67, 37.05
EL=101.38

STA 205+43.71, 39.22
EL=101.31

STA 205+37.93, 37.25
EL=101.42

STA 205+41.87, 40.02
EL=101.73T, 101.23G

STA 205+31.93, 37.26
EL=101.76

STA 205+27.92, 40.81
EL=101.90

STA 205+16.98, 37.27
EL=101.95

STA 205+24.88, 37.26
EL=101.87

STA 205+20.46, 41.33
EL=101.96

STA 205+19.68, 43.15
EL=101.93

STA 205+23.37, 44.72
EL=101.99

STA 205+15.39, 53.28
EL=101.16

STA 205+12.29, 60.57
EL=101.51

STA 205+19.07, 54.84
EL=101.22

STA 205+15.79, 62.56
EL=101.36

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 42	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021073A_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

2

CURB RAMP TYPE 7A MODIFIED

STA 206+27.68, -32.78
EL=101.34T
STA 206+27.68, -32.28
EL=100.89
STA 206+27.68, -27.58
EL=100.82
STA 206+20.68, -32.81
EL=101.29
STA 206+20.68, -32.30
EL=
STA 206+13.68, -32.81
EL=101.52
STA 206+13.68, -27.58
EL=101.44
STA 206+32.68, -32.25
EL=100.83
STA 206+32.68, -32.75
EL=101.27
STA 206+39.67, -35.65
EL=101.27 (EXIST)
STA 206+39.68, -32.72
EL=101.22
STA 206+39.68, -32.23
EL=101.21
STA 206+45.67, -35.67
EL=101.18
STA 206+45.68, -32.72
EL=100.86
STA 206+45.68, -28.73
EL=100.80

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

1.3% 5.7% 1.2% 5.4% 6% 1.6% 11% 1.5% 5.6% 7% 1.5% 2.9% 6% 5.4% 1.5% 1% 1.5% 1.5% 1% 1% 1.6% 1.5%

STA 206+13.68, -25.00
EL=101.41, 100.91G
STA 206+13.68, -23.00
EL=100.99
STA 206+20.68, -27.58
EL=101.43T
STA 206+20.68, -25.00
EL=101.22T, 100.85G
STA 206+20.68, -23.00
EL=100.93
STA 206+27.68, -25.00
EL=100.78
STA 206+27.68, -23.00
EL=100.86
STA 206+45.68, -25.00
EL=100.54
STA 206+45.68, -23.00
EL=100.62
STA 206+39.68, -27.58
EL=101.14
STA 206+39.68, -25.00
EL=101.12T, 100.62G
STA 206+39.68, -23.00
EL=100.70
STA 206+32.68, -27.59
EL=100.76
STA 206+32.68, -25.00
EL=100.72
STA 206+32.68, -23.00
EL=100.80

R/L N. TEUTONIA AVE

206

207

N. TEUTONIA AVE

R/L N. 20TH ST

STA 206+20.29, 25.21
EL=100.92
STA 206+21.30, 26.94
EL=100.84G, 101.01T
STA 206+19.07, 25.97
EL=100.90
STA 206+20.20, 27.62
EL=101.99T, 100.82G
STA 206+20.22, 32.19
EL=100.90
STA 206+16.07, 31.87
EL=100.66
STA 206+14.39, 30.78
EL=100.74
STA 206+18.03, 37.19
EL=100.82
STA 206+13.96, 37.08
EL=100.53
STA 206+12.00, 36.69
EL=100.51
STA 206+27.55, 23.04
EL=100.87
STA 206+27.68, 25.03
EL=100.79
STA 206+27.72, 28.18
EL=100.94
STA 206+24.59, 28.19
EL=100.91
STA 206+32.72, 23.00
EL=100.79
STA 206+32.72, 25.00
EL=100.70
STA 206+32.72, 28.18
EL=100.86
STA 206+39.72, 23.00
EL=100.65
STA 206+39.72, 25.00
EL=101.07T, 100.57G
STA 206+39.72, 27.17
EL=101.18
STA 206+39.72, 32.17
EL=101.25

STA 206+21.38, 39.52
EL=
STA 206+16.53, 40.71
EL=100.71
STA 206+14.03, 43.28
EL=100.64T, 100.14G
STA 206+12.08, 43.72
EL=100.22
STA 206+15.35, 43.47
EL=100.65
STA 206+19.02, 45.03
EL=100.74
STA 206+32.73, 32.18
EL=100.92
STA 206+27.73, 32.18
EL=101.00
STA 206+24.59, 32.19
EL=100.97
STA 206+23.88, 33.80
EL=100.96
STA 206+21.69, 38.80
EL=100.88
STA 206+20.20, 42.28
EL=100.77

7% 4.7% 5% 6.9% 1.5% 1.6% 1.5% 1% 1% 1.5% 1.5% 1.6% 1.5% 4.7% 0.5% 5.6% 1.5% 4% 7% 1.5% 1.5% 3.9% 1.5% 1.5% 1.5% 3.9%

CURB RAMP
TYPE 3 MODIFIED

N. 20TH ST

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 43	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021074_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

R/L W. MELVINA ST

W. MELVINA ST

CURB RAMP TYPE 3 MODIFIED

CURB RAMP TYPE 3 MODIFIED

STA 210+18.00, -49.11
EL=97.30

STA 210+12.50, -51.52
EL=97.56

STA 210+18.51, -40.30
EL=96.94

STA 210+13.05, -40.32
EL=97.26

STA 210+07.60, -40.34
EL=97.34

STA 210+13.03, -35.32
EL=97.31

STA 210+05.41, -35.34
EL=97.42

STA 210+04.64, -33.60
EL=97.43

STA 209+96.91, -32.70
EL=97.47

STA 209+97.07, -28.78
EL=97.41

STA 209+88.67, -32.37
EL=97.83

STA 209+88.67, -28.77
EL=97.79

STA 209+88.67, -25.58
EL=97.76T, 97.26G

STA 209+88.65, -23.00
EL=97.34

STA 209+95.67, -25.00
EL=97.25

STA 209+95.67, -23.00
EL=97.33

STA 210+01.13, -25.00
EL=97.24

STA 210+01.13, -23.00
EL=97.32

STA 210+23.98, -46.47
EL=97.32T, 96.82G

STA 210+25.81, -45.67
EL=96.90

STA 210+23.01, -39.26
EL=96.98

STA 210+21.18, -40.06
EL=96.90

STA 210+20.83, -34.26
EL=97.05

STA 210+19.03, -35.07
EL=96.99

STA 210+10.86, -35.32
EL=97.34

STA 210+12.05, -26.86
EL=97.29T, 97.12G

STA 210+13.02, -25.11
EL=97.20

STA 210+11.04, -26.35
EL=97.30T, 97.13G

STA 210+11.87, -24.53
EL=97.21

STA 210+08.91, -30.88
EL=97.37

STA 210+02.53, -28.78
EL=97.40

STA 210+63.05, -64.48
EL=97.06

STA 210+64.89, -63.68
EL=97.48T, 96.98G

STA 210+70.96, -61.03
EL=97.54

STA 210+76.34, -58.68
EL=97.63

STA 210+66.17, -50.39
EL=97.07

STA 210+63.36, -43.98
EL=96.85

STA 210+71.66, -47.99
EL=97.46

STA 210+62.80, -40.20
EL=96.73

STA 210+68.86, -41.57
EL=96.88

STA 210+68.26, -40.20
EL=96.78

STA 210+59.68, -53.23
EL=96.85G, 97.00T

STA 210+57.84, -54.03
EL=96.93

STA 210+56.87, -46.81
EL=96.94T, 96.77G

STA 210+55.04, -47.61
EL=96.85

STA 210+53.27, -40.25
EL=96.77

STA 210+55.27, -40.22
EL=96.69

STA 210+54.23, -34.35
EL=96.70

STA 210+56.12, -35.02
EL=96.62

STA 210+55.04, -32.43
EL=96.69

STA 210+56.83, -33.32
EL=96.61G, 96.78T

STA 210+55.47, -31.62
EL=96.69

STA 210+57.23, -32.58
EL=96.61G, 96.78T

STA 210+60.62, -35.20
EL=96.65

STA 210+56.82, -29.60
EL=96.68

STA 210+58.40, -30.82
EL=96.60

STA 210+61.44, -25.47
EL=96.65

STA 210+67.38, -38.19
EL=96.75

STA 210+66.07, -35.19
EL=96.70

STA 210+65.22, -33.25
EL=96.67

STA 210+70.74, -33.18
EL=96.94

STA 210+76.74, -33.16
EL=96.98

STA 210+76.72, -25.00
EL=96.40G, 96.90T

STA 210+76.71, -23.00
EL=96.48

STA 210+70.72, -28.18
EL=96.86

STA 210+70.72, -25.00
EL=96.83T, 96.49G

STA 210+70.72, -23.00
EL=96.57

STA 210+65.21, -29.22
EL=96.63

STA 210+63.59, -29.52
EL=96.61

STA 210+62.48, -27.18
EL=96.57

R/L N. TEUTONIA AVE

210

N. TEUTONIA AVE

50

21

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 44	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021075_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

R/L N. TEUTONIA AVE

210

N. TEUTONIA AVE

50

STA 209+79.09, 25.79
EL=97.27

STA 209+78.00, 27.46
EL=97.19

STA 209+73.67, 23.45
EL=97.30

STA 209+73.21, 25.40
EL=97.22

STA 209+62.44, 23.00
EL=97.54

STA 209+62.44, 25.00
EL=97.76

STA 209+57.44, 23.00
EL=97.60

STA 209+57.44, 25.00
EL=97.83

STA 209+75.94, 31.91
EL=97.26

STA 209+80.00, 29.03
EL=97.29

STA 209+81.36, 27.57
EL=97.20

STA 209+80.67, 29.70
EL=97.29

STA 209+82.13, 28.33
EL=97.17

STA 209+81.69, 31.90
EL=97.04

STA 209+82.18, 31.58
EL=97.02

STA 209+83.83, 30.45
EL=97.10

STA 209+81.70, 36.90
EL=96.95

STA 209+84.42, 36.78
EL=96.91

STA 209+86.37, 36.35
EL=96.99

STA 209+75.94, 36.91
EL=97.21

STA 209+81.61, 50.35
EL=96.91T, 96.41G

STA 209+83.44, 51.15
EL=96.49

STA 209+77.41, 48.51
EL=96.93

STA 209+57.34, 33.00
EL=97.91

STA 209+62.34, 33.00
EL=97.86

STA 209+70.47, 31.91
EL=97.33

STA 209+70.93, 36.81
EL=97.28

STA 209+71.08, 37.71
EL=97.27

STA 209+67.46, 44.73
EL=96.98

STA 209+72.62, 46.99
EL=96.95

CURB RAMP TYPE 3 MODIFIED

1.5% 6.5% 1.4% 1.5% 0.7% 1.5% 3.8% 1.5% 4.5% 1.1% 1% 1.5% 1.2% 1.5% 3.5% 2.4% 1.5% 0.5% 0.5% 0.5%

STA 210+33.79, 23.07
EL=96.75

STA 210+33.97, 25.06
EL=96.67

STA 210+28.29, 26.74
EL=96.82

STA 210+27.36, 24.97
EL=96.73

STA 210+26.30, 25.58
EL=96.72

STA 210+27.36, 27.27
EL=96.81

STA 210+30.22, 31.86
EL=96.74

STA 210+21.18, 30.37
EL=96.62

STA 210+22.91, 31.54
EL=96.54

STA 210+18.53, 35.84
EL=96.50

STA 210+20.40, 36.64
EL=96.42

STA 210+33.05, 27.85
EL=96.72

STA 210+39.50, 23.00
EL=96.69

STA 210+39.50, 25.00
EL=96.61

STA 210+45.08, 23.00
EL=96.62

STA 210+45.08, 25.00
EL=97.04

STA 210+45.08, 27.89
EL=97.06

STA 210+38.50, 27.87
EL=96.66

STA 210+45.07, 31.93
EL=97.10

STA 210+38.44, 31.89
EL=96.70

STA 210+34.58, 31.86
EL=96.72

STA 210+33.57, 34.17
EL=96.76

STA 210+31.70, 38.46
EL=96.72

STA 210+28.03, 36.86
EL=96.66

STA 210+23.40, 36.87
EL=96.55

STA 210+27.38, 48.35
EL=96.80

STA 210+22.34, 46.15
EL=96.74

STA 210+17.18, 43.91
EL=96.69

STA 210+15.32, 43.10
EL=96.27

CURB RAMP TYPE 3 MODIFIED

1.5% 6.1% 1.6% 1% 1.7% 1.6% 0.5% 1% 0.5% 0.5% 6.1% 2.6% 1.5% 1.5% 0.9% 2.4% 1.5% 0.7% 0.7% 1% 1%

R/L W. MELVINA ST

W. MELVINA ST

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 45	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021076_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

49

N. 21ST ST

R/L N. 21ST ST

CURB RAMP TYPE 4A1 MODIFIED

STA 211+38.50, -44.07
EL=96.18

STA 211+40.99, -49.19
EL=96.13T, 95.89

STA 211+13.59, -54.70
EL=96.96

STA 211+42.58, -50.41
EL=95.97

STA 211+11.43, -49.64
EL=96.99

STA 211+36.34, -39.01
EL=96.11

STA 211+43.42, -41.97
EL=96.10

STA 211+44.00, -42.05
EL=95.92G, 96.10T

STA 211+45.98, -42.32
EL=95.90

STA 211+33.88, -35.38
EL=95.94

STA 211+42.00, -36.59
EL=96.02

STA 211+32.01, -33.04
EL=95.93

STA 211+43.03, -36.15
EL=95.87

STA 211+25.01, -33.05
EL=96.93

STA 211+43.59, -36.00
EL=95.86

STA 211+20.01, -33.05
EL=96.47

STA 211+45.52, -35.46
EL=95.85

STA 211+39.40, -33.02
EL=95.85

STA 211+44.01, -31.76
EL=95.81

STA 211+20.00, -28.03
EL=96.40

STA 211+42.26, -32.73
EL=95.82

STA 211+37.49, -27.54
EL=95.77

STA 211+38.60, -25.88
EL=95.75

STA 211+20.00, -25.58
EL=96.32T

STA 211+20.00, -25.00
EL=95.82G

STA 211+20.00, -23.00
EL=95.90

STA 211+25.01, -28.04
EL=96.32

STA 211+32.01, -28.04
EL=95.86

STA 211+25.01, -27.05
EL=96.30

STA 211+25.00, -26.55
EL=96.29

STA 211+25.00, -25.59
EL=96.27T

STA 211+25.00, -25.00
EL=95.77G

STA 211+25.00, -23.00
EL=95.85

CURB RAMP TYPE 4A1 MODIFIED

STA 212+14.77, -38.47
EL=95.29T, 94.79G

STA 212+23.88, -32.58
EL=94.77

STA 212+12.92, -37.70
EL=94.87

STA 212+30.19, -32.58
EL=95.06

STA 212+17.33, -32.28
EL=94.69

STA 212+35.19, -32.58
EL=94.99

STA 212+15.61, -31.25
EL=94.77

STA 212+22.57, -27.08
EL=94.66

STA 212+21.55, -25.36
EL=94.71

STA 212+23.88, -27.58
EL=94.69

STA 212+30.19, -27.58
EL=95.01

STA 212+30.19, -25.58
EL=94.99

STA 212+30.19, -25.00
EL=94.49G, 94.99T

STA 212+30.19, -23.00
EL=94.57

STA 212+35.19, -27.58
EL=94.97

STA 212+35.19, -25.00
EL=94.44G, 94.94T

STA 212+35.19, -23.00
EL=94.52

N. TEUTONIA AVE

211

212

R/L N. TEUTONIA AVE

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 46	E

2

2

LEGEND

XXX.XX = SPOT ELEVATION
XXX.XX G = FLOWLINE OF CURB ELEVATION
XXX.XX T = TOP OF CURB ELEVATION
XXX.XX F = FLANGE OF CURB ELEVATION

N

CURB RAMP TYPE 7A MODIFIED

R/L N. 21ST ST

N. 21ST ST

212

213

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

STA 212+49.99, -32.58
EL=94.47

STA 212+54.99, -32.57
EL=94.42

STA 212+49.98, -27.59
EL=94.42

STA 212+61.99, -32.58
EL=94.71

STA 212+42.99, -32.58
EL=94.92

STA 212+54.98, -27.58
EL=94.37

STA 212+61.98, -27.58
EL=94.66

STA 212+42.98, -27.58
EL=94.87

STA 212+61.98, -25.00
EL=94.64T, 94.14G

STA 212+61.98, -23.00
EL=94.22

STA 212+42.98, -25.00
EL=94.85T, 94.35G

STA 212+42.98, -23.00
EL=94.43

STA 212+54.98, -25.00
EL=94.22

STA 212+49.98, -25.00
EL=94.27

STA 212+54.98, -23.00
EL=94.30

STA 212+49.98, -23.00
EL=94.35

STA 212+54.82, 22.98
EL=94.30

STA 212+54.86, 25.00
EL=94.22

STA 212+49.86, 23.00
EL=94.35

STA 212+54.86, 27.58
EL=94.26

STA 212+49.86, 25.00
EL=94.27

STA 212+54.84, 32.11
EL=94.33

STA 212+49.86, 27.57
EL=94.31

STA 212+54.92, 32.61
EL=94.73T

STA 212+42.86, 23.00
EL=94.40

STA 212+61.86, 23.00
EL=94.22

STA 212+42.86, 25.00
EL=94.71T, 94.32G

STA 212+61.86, 25.00
EL=94.64T, 94.14G

STA 212+42.86, 27.56
EL=94.73

STA 212+61.86, 27.60
EL=94.66

STA 212+61.85, 32.08
EL=94.70

STA 212+05.86, 23.00
EL=94.65

STA 212+30.86, 23.00
EL=94.48

STA 212+05.86, 25.00
EL=94.57G

STA 212+36.85, 27.58
EL=

STA 212+05.85, 27.58
EL=94.69

STA 212+30.86, 25.00
EL=94.40G

STA 212+30.85, 27.58
EL=94.58

STA 211+99.84, 23.00
EL=94.69

STA 211+99.84, 25.00
EL=94.61G, 95.11T

STA 211+99.84, 27.58
EL=95.12

STA 212+61.84, 32.58
EL=94.70

STA 212+30.84, 32.58
EL=94.65

STA 212+61.84, 34.58
EL=94.77

STA 212+54.85, 34.61
EL=94.79

STA 211+99.84, 32.58
EL=95.16

STA 212+30.84, 37.08
EL=94.99

STA 212+49.84, 32.10
EL=94.38

STA 212+05.84, 32.58
EL=94.76

STA 212+42.85, 32.08
EL=94.77

STA 212+49.84, 32.60
EL=94.74T

STA 212+42.84, 32.58
EL=94.77

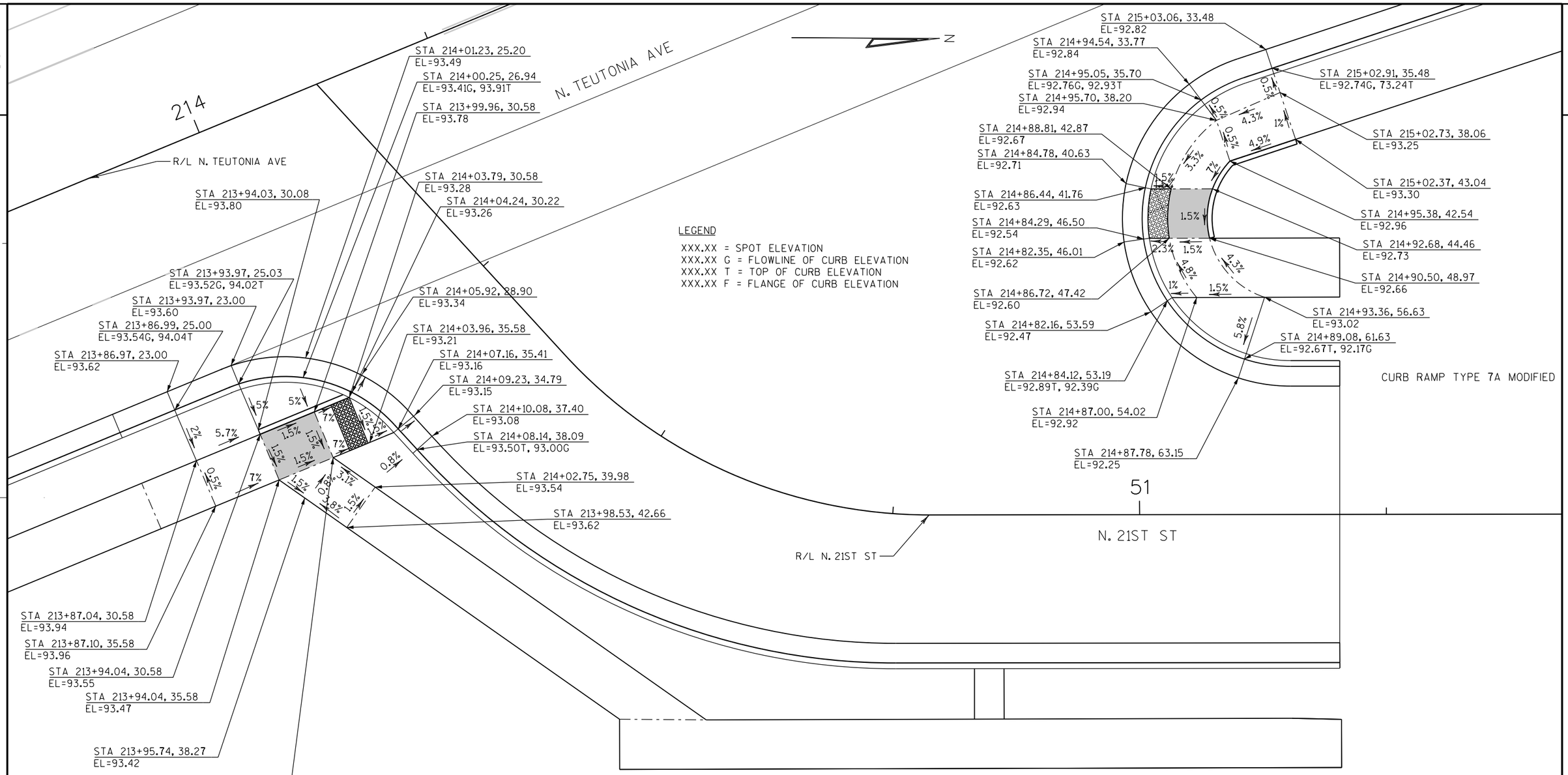
STA 212+05.36, 37.08
EL=95.03

STA 212+42.84, 34.58
EL=94.84

STA 212+49.84, 34.60
EL=94.81

CURB RAMP TYPE 7A MODIFIED

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 47	E



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 48	E

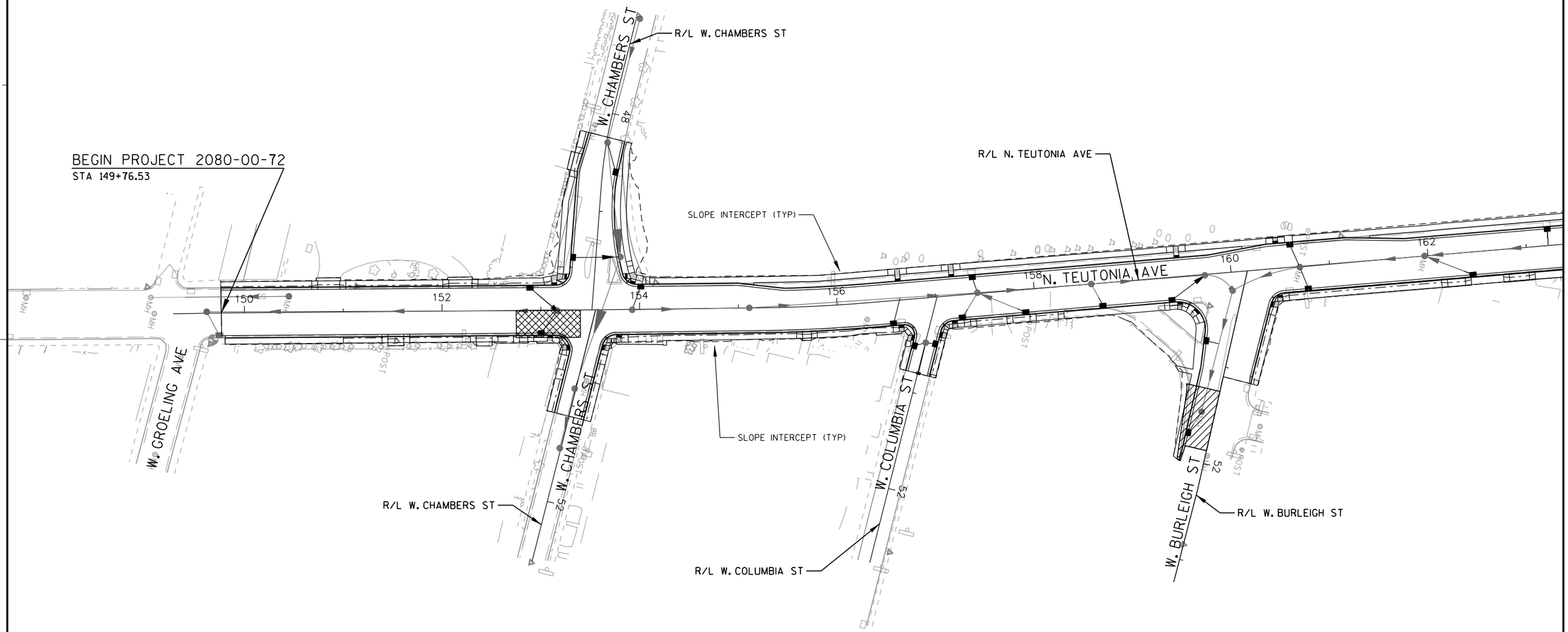
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021079_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:10
WISDOT/CADDS SHEET 42

LEGEND

APPROXIMATE EXTENT OF SOLID WASTE CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

APPROXIMATE EXTENT OF PETROLEUM CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

N



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - HAZMAT AREAS	SHEET 49	E

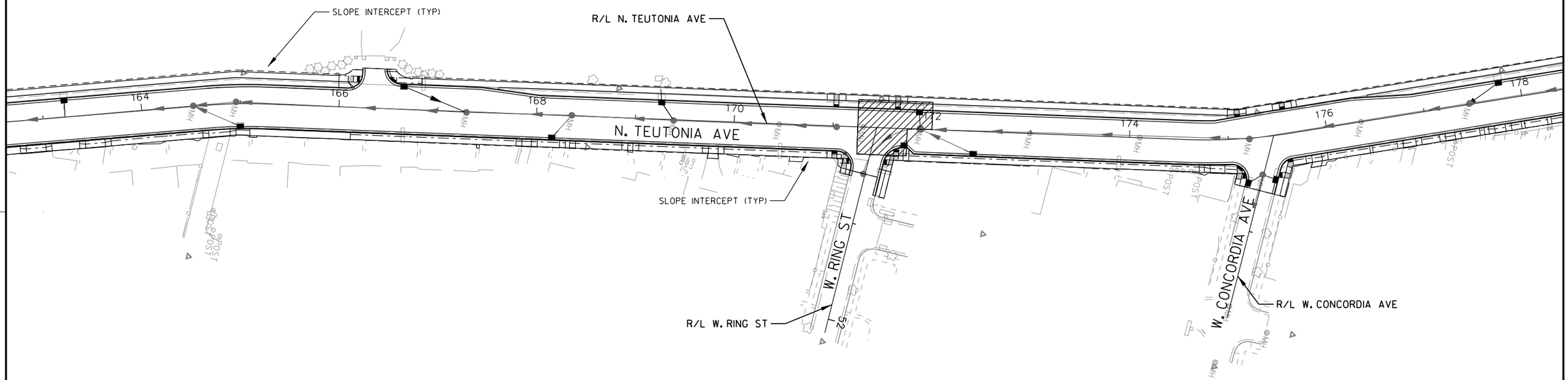
2

LEGEND

APPROXIMATE EXTENT OF SOLID WASTE CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

APPROXIMATE EXTENT OF PETROLEUM CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

N



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - HAZMAT AREAS	SHEET 50	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021082_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

APPROXIMATE EXTENT OF SOLID WASTE CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

APPROXIMATE EXTENT OF PETROLEUM CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

N

SLOPE INTERCEPT (TYP)

R/L N. TEUTONIA AVE

R/L W. KEEFE AVE

W. KEEFE AVE

48

178 180 182 184 186 188 190 192

N. TEUTONIA AVE

SLOPE INTERCEPT (TYP)

R/L N. 18TH ST

N. 18TH ST

52

R/L W. KEEFE AVE

W. KEEFE AVE

52

50

R/L N. 19TH ST

N. 19TH ST

52

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - HAZMAT AREAS	SHEET 51	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021083_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

LEGEND

APPROXIMATE EXTENT OF SOLID WASTE CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

APPROXIMATE EXTENT OF PETROLEUM CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

N

R/L W. FINN PL

W. FINN PL

46

R/L N. TEUTONIA AVE

SLOPE INTERCEPT (TYP)

R/L W. NASH ST

W. NASH ST

46

R/L N. 20TH ST

N. 20TH ST

48

R/L W. VIENNA AVE

W. VIENNA AVE

48

192 194 196 198 200 202 204 206

N. TEUTONIA AVE

SLOPE INTERCEPT (TYP)

W. FINN PL

52

R/L W. FINN PL

W. NASH ST

52

R/L W. NASH ST

R/L W. VIENNA AVE

N. 20TH ST

52

R/L N. 20TH ST

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - HAZMAT AREAS	SHEET 52	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021084_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

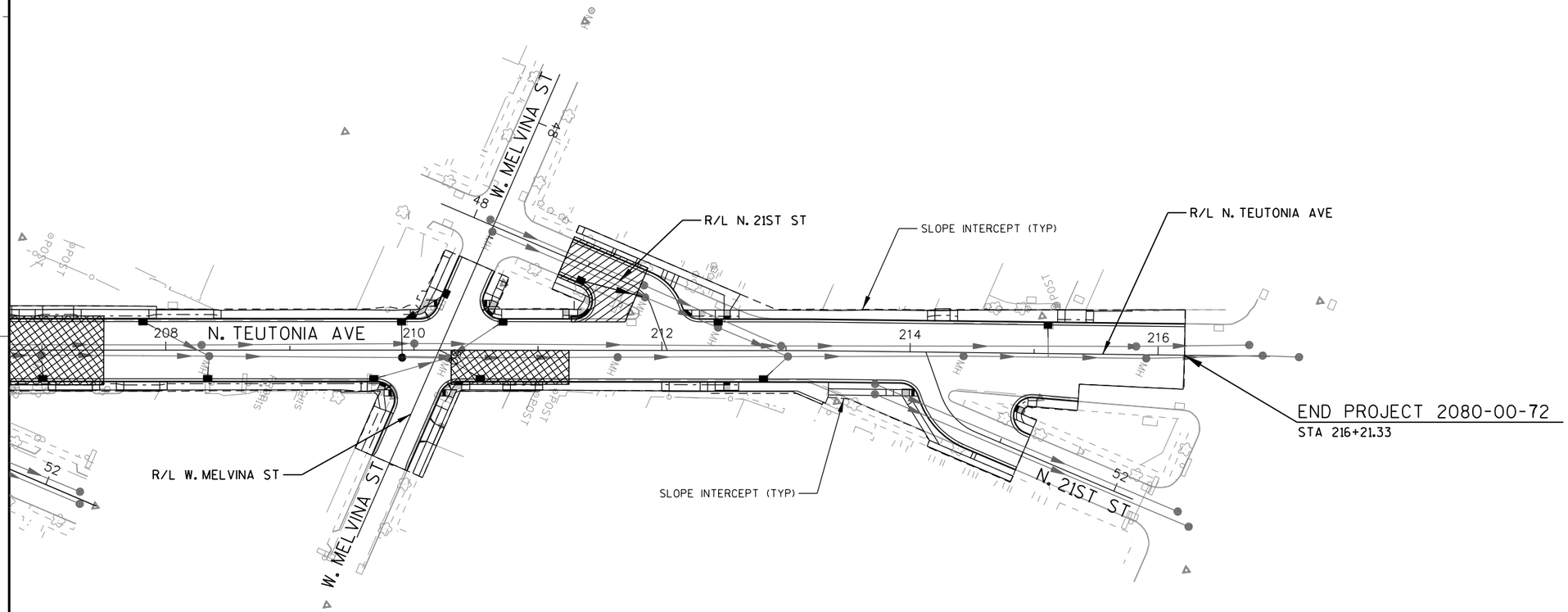
2

LEGEND

APPROXIMATE EXTENT OF SOLID WASTE CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

APPROXIMATE EXTENT OF PETROLEUM CONTAMINATED SOIL - SEE SPECIAL PROVISIONS FOR DEPTHS

N



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - HAZMAT AREAS	SHEET 53	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021085_CD.DGN PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

2

2

N

BEGIN CONSTRUCTION
STA 48+24.47

R/L W. CHAMBERS ST

R/L N. TEUTONIA AVE

48+58.44
17.1' LT

48+58.44
17' LT

49+57.16
37.3' RT

49+57.16
37' RT

49+44.78
21' LT

49+61.56
45.6' LT

154+03
35' LT

152+91
22' LT

152+89.21
22' LT

153+15
1' LT

153+16
3' RT

153+93
1' LT

153+11
25' RT

153+10.43
22' RT

N. TEUTONIA AVE

W. GROELING AVE

W. CHAMBERS ST

CAUTION: ACTIVE WINDOW WELL
WORK BY OTHERS SEE PROPOSAL
ARTICLE "PROSECUTION AND PROGRESS"
FOR MORE INFORMATION

R/L W. CHAMBERS ST

BEGIN PROJECT 2080-00-72
STA 149+76.53

END CONSTRUCTION
STA 51+11.00

LEGEND

REMOVING PAVEMENT	—RM— REMOVING STORM SEWER
REMOVING CONCRETE SIDEWALK	REMOVING INLETS
X X X X X SAWCUT	REMOVING MANHOLES
X TREE REMOVAL	

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 54	E

2

2

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- XXXXX SAWCUT
- X TREE REMOVAL
- —RM— REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES

N

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

155 156 157 158 159 160 161

156+31 17' RT

156+63.48 21.9' RT

156+63 24' RT

157+38.17 22.5' LT

157+58 22' LT

157+42 3' LT

157+51 19' RT

157+88 22' RT

158+67 21' RT

159+72 2' RT

160+27.66 22.1' LT

160+30 23' LT

160+65 0' LT

160+69 2' RT

50+44.62 9.4' RT

50+44.61 9.4' RT

50+32.31 12' LT

50+32.40 9.3' LT

157+31 15' RT

157+27 21' RT

157+25.28 22.7' RT

157+89.71 22.7' RT

158+68.09 22.7' RT

159+65 25.1' RT

159+63.93 25.1' RT

160+58 24' RT

160+57.53 23.3' RT

50+78.39 28.7' RT

50+78.67 28.7' RT

50+78.41 12' RT

W. COLUMBIA ST

W. BURLEIGH ST

51

52

END CONSTRUCTION
STA 50+79.80

R/L W. BURLEIGH ST

51+63.47 19' RT

51+73.22 24' RT

51+73.22 24' RT

END CONSTRUCTION
STA 51+86.55

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 55	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021181_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

LEGEND

	REMOVING PAVEMENT	—RM—	REMOVING STORM SEWER
	REMOVING CONCRETE SIDEWALK		REMOVING INLETS
X X X X X	SAWCUT		REMOVING MANHOLES
X	TREE REMOVAL		

N

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

160+68
0' LT

160+69
2' RT

161

162

162+35
19' RT

162+42
22' RT

162+43.92
22.7' RT

163

163+22.45
22.7' RT
24' LT

163+22
0

164

164+90
19' RT

164+98
22' RT

164+99.55
21.6' RT

165

166

166+68
24' LT

166+64.86
22.5' LT

167

167+27
0' LT

POLE

POST

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 56	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021182_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- XXXXX SAWCUT
- X TREE REMOVAL
- —RM— REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES

N

R/L N. TEUTONIA AVE

166+68
24' LT

166+64.86
22.5' LT

169+27
22' LT

169+25.79
22.5' LT

171+86.83
22.7' LT

171+87
23' LT

166

167

168

169

170

171

172

N. TEUTONIA AVE

63.53'

RM

RM

167+27
0' LT

168+23
15' RT

169+38
1' LT

171+88
0' LT

171+75
23' RT

168+17
21' RT

168+16.48
22.6' RT

171+73.66
22.5' RT

171+72.34
22.5' RT

R/L W. RING ST

W. RING ST

51

52

END CONSTRUCTION
STA 50+48.52

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 57	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021183_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- XXXXX SAWCUT
- X TREE REMOVAL
- —RM— REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES

N

R/L N. TEUTONIA AVE

171+80.87
22.7' LT

171+88
0' LT

171+75
23' RT

172+41
22' RT

172+42.60
22.8' RT

172

173

174

175

176

177

178

N. TEUTONIA AVE

177+45
0' LT

177+76
23' LT

177+78.76
22.5' LT

50+50.38
12.6' RT

50+35.14
12.6' LT

RM

END CONSTRUCTION
STA 50+57.25

R/L W. CONCORDIA AVE

W. CONCORDIA AVE

51

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 58	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021184_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2

2

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- XXXXX SAWCUT
- X TREE REMOVAL
- —RM— REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES

N

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

178 179 180 181 182 183 184

178+68 13' RT

178+69 21' RT

178+69.22 22.8' RT

180+39 21' RT

180+39 13' RT

181+11 2' LT

181+12 14' RT

181+12.03 22.8' LT

181+12 23' LT

180+38.79 22.5' RT

181+20 21' RT

181+19.62 22.3' RT

183+50.90 22.8' LT

183+51 23' LT

183+51 2' LT

183+51 13' RT

183+51 21' RT

183+50.78 22.3' RT

TREE REMOVAL

R/L N. 18TH ST

TREE REMOVAL

N. 18TH ST

52

END CONSTRUCTION
STA 51+35.27

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 59	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021185_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- XXXXX SAWCUT
- X TREE REMOVAL
- —RM— REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES

N

R/L N. TEUTONIA AVE

R/L W. KEEFE AVE

BEGIN CONSTRUCTION
STA 49+39.62

W. KEEFE AVE

N. TEUTONIA AVE

184 185 186 187 188 189 190

185+85.77
22.5' LT

185+86
22' LT

185+89
3' LT

185+89
1' RT

185+88
22' RT

185+39
21.8' RT

185+38.93
22.5' RT

185+87.81
22.4' RT

186+70
1' RT

187+83
2' LT

187+85
0' LT

187+60.45
23.0' LT

187+62
22' LT

187+01
33' RT

187+03.81
33.0' RT

187+89
26.8' RT

187+90.34
26.3' RT

188+00
2' RT

188+32
2' RT

188+54
25.1' RT

188+54.43
22.3' RT

189+29
24' RT

189+27.35
22.3' RT

TREE REMOVAL

END CONSTRUCTION
STA 50+75.93

R/L W. KEEFE AVE

R/L N. 19TH ST

N. 19TH ST

END CONSTRUCTION
STA 50+96.51

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 60	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021186_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

R/L W. FINN PL

W. FINN PL

BEGIN CONSTRUCTION
STA 49+36.84

R/L N. TEUTONIA AVE

192+16.74
22.6' LT

194+67.80
22.4' LT

190 191 192 193 194 195 196

N. TEUTONIA AVE

192+14
21' LT

191+97
2' LT

192+92
1' RT

192+68
23' RT

194+69

194+74
15' LT

194+62
16' RT

194+61
22' RT

192+65.62
22.8' RT

194+59.52
22.6' RT

R/L W. FINN PL

W. FINN PL

END CONSTRUCTION
STA 50+78.65

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- X X X X X SAWCUT
- X TREE REMOVAL
- —RM— REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 61	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021187_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

W. NASH ST

N. 20TH ST

N. TEUTONIA AVE

BEGIN CONSTRUCTION
STA 49+52.90

198+05.29
22.4' LT

198+02
22' LT

197+70
14' RT

197+68
21' RT

197+67.04
22.9' RT

R/L N. TEUTONIA AVE

200+35.47
22.7' LT

200+37
22' LT

200+91
4' RT

200+81
17' RT

200+75
22' RT

200+73.16
22.4' RT

202+37.0
21.8' RT

CAUTION: ACTIVE WINDOW WELL
WORK BY OTHERS SEE PROPOSAL
ARTICLE "PROSECUTION AND PROGRESS"
FOR MORE INFORMATION

END CONSTRUCTION
STA 50+80.21

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- X X X X X SAWCUT
- X TREE REMOVAL
- —RM— REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 62	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021188_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2

2

LEGEND

REMOVING PAVEMENT
REMOVING CONCRETE SIDEWALK
X X X X X SAWCUT
X TREE REMOVAL
—RM— REMOVING STORM SEWER
REMOVING INLETS
REMOVING MANHOLES

N

BEGIN CONSTRUCTION
STA 40+09.84

BEGIN CONSTRUCTION
STA 49+00.19

W. VIENNA AVE

W. 20TH ST

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

N. 20TH ST

202+60.84
23.1' LT

202+60
21' LT

202+55
15' LT

202+40
6' RT

202+42
21' RT

202+37.03
21.8' RT

204+42
2' RT

204+36
15' RT

204+31
21' RT

204+30.01
22.2' RT

206+31
22' LT

206+26
22' LT

206+16
3' RT

207+00
13' RT

207+01
21' RT

207+00.84
22.3' RT

207+81.78
22.6' LT

207+83
22' LT

207+90
LT

202 203 204 205 206 207 208

51

52

TREE REMOVAL

END CONSTRUCTION
STA 50+94.71

END CONSTRUCTION
STA 51+34.40

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 63	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021189_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

BEGIN CONSTRUCTION
STA 49+23.76

BEGIN CONSTRUCTION
STA 48+80.52

END CONSTRUCTION
STA 50+99.30

W. MELVINA ST

N. 21ST ST

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

48

49

49+65.94
13.1' RT

209+90.58
209+91
24' LT

210+19
35' LT

210+71.02
22.4' LT

49+18.73
14.6' RT

49+16.45
12.2' RT

49+68.98
52.5' LT

49+51.58
2.5' RT

212+48
38' LT

207+90
20' LT

208+34
13' RT

208+34
21' RT

209+70
22' RT

209+77
20' RT

210+26
5' RT

210+45
18' RT

210+25
4' RT

210+70
22' LT

210+64
18' LT

211+75.41
22.4' LT

211+75
22' LT

211+65
3' RT

212+45
18' LT

208+33.92
22.5' RT

209+68.01
22.7' RT

210+52
22' RT

210+53.49
22.5' RT

212+84
22' RT

212+89
16' RT

212+82.18
22.6' RT

203 209 210 211 212 213 214

RM

W(P) SS

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- X X X X X SAWCUT
- X TREE REMOVAL
- —RM— REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 64	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021190_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2

N

R/L N. TEUTONIA AVE

215+11.42
22.2' LT

215+11
21' LT

214

215
215+11
13' LT

216

N. TEUTONIA AVE

W. CAPITOL DR

END PROJECT 2080-00-72
STA 216+21.33

51

N. 21ST ST

52

TREE REMOVAL

END CONSTRUCTION
STA 51+20.28

LEGEND

- REMOVING PAVEMENT
- REMOVING CONCRETE SIDEWALK
- X X X X X SAWCUT
- X TREE REMOVAL
- —RM— REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES

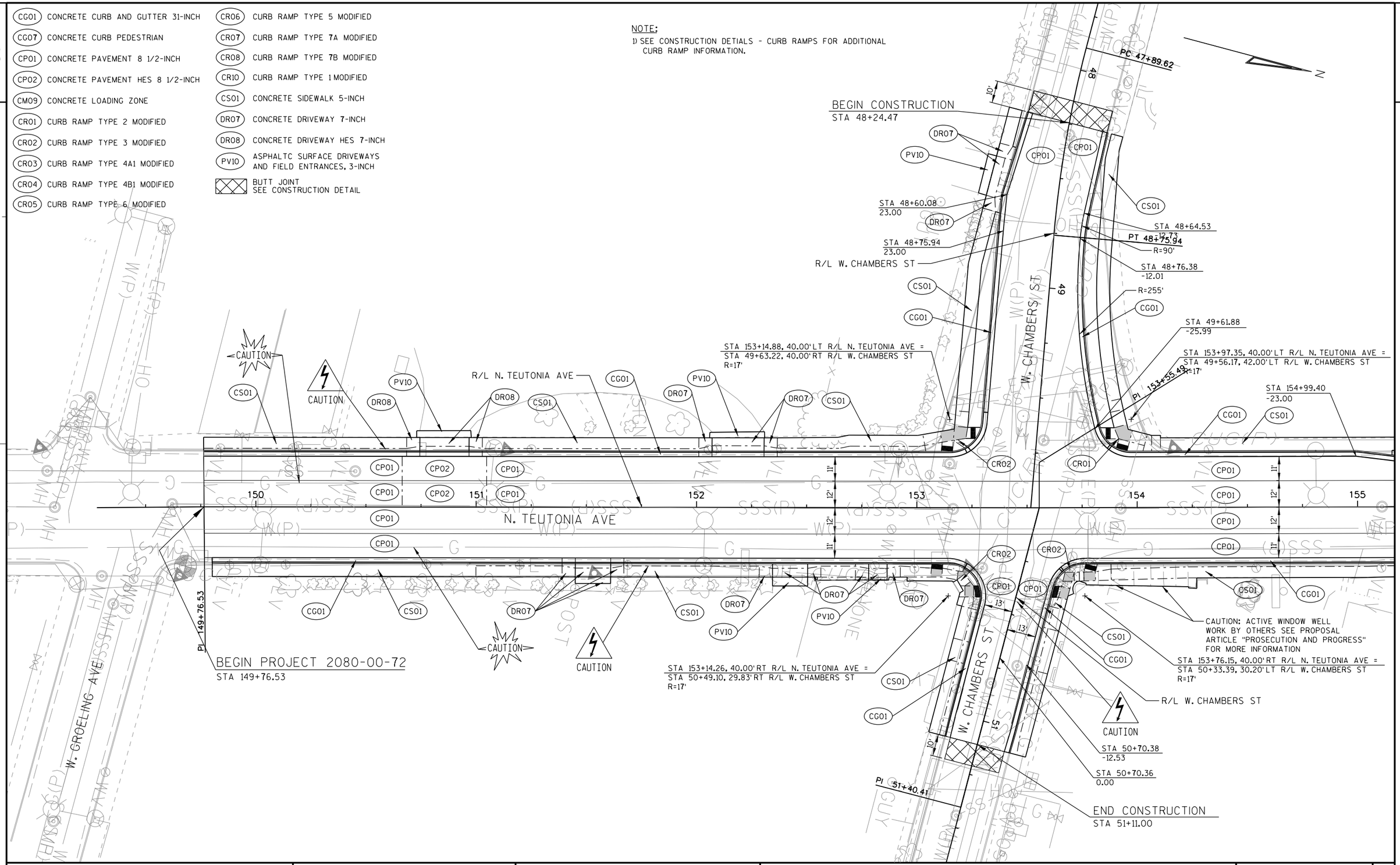
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	REMOVAL PLAN - N. TEUTONIA AVE	SHEET 65	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021191_RM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2

CG01	CONCRETE CURB AND GUTTER 31-INCH	CR06	CURB RAMP TYPE 5 MODIFIED
CG07	CONCRETE CURB PEDESTRIAN	CR07	CURB RAMP TYPE 7A MODIFIED
CP01	CONCRETE PAVEMENT 8 1/2-INCH	CR08	CURB RAMP TYPE 7B MODIFIED
CP02	CONCRETE PAVEMENT HES 8 1/2-INCH	CR10	CURB RAMP TYPE 1 MODIFIED
CM09	CONCRETE LOADING ZONE	CS01	CONCRETE SIDEWALK 5-INCH
CR01	CURB RAMP TYPE 2 MODIFIED	DR07	CONCRETE DRIVEWAY 7-INCH
CR02	CURB RAMP TYPE 3 MODIFIED	DR08	CONCRETE DRIVEWAY HES 7-INCH
CR03	CURB RAMP TYPE 4A1 MODIFIED	PV10	ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
CR04	CURB RAMP TYPE 4B1 MODIFIED		BUTT JOINT SEE CONSTRUCTION DETAIL
CR05	CURB RAMP TYPE 6 MODIFIED		

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 66	E

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

N

STA 155+24.66
PT 156+31.78
STA 154+99.40
-23.00
STA 155+47.40
-17.00
R/L N. TEUTONIA AVE
STA 159+77.71
-17.00
STA 160+37.71
-23.00
N. TEUTONIA AVE
155
156
157
158
159
160
161
CAUTION
STA 156+65.39, 35.50'RT R/L N. TEUTONIA AVE =
STA 50+45.30, 22.44'RT R/L W. COLUMBIA ST
R=12.5'
STA 157+16.21, 40.00'RT R/L N. TEUTONIA AVE =
STA 50+32.97, 27.07'LT R/L W. COLUMBIA ST
R=17'
ABANDON DRIVEWAY
R/L W. COLUMBIA ST
ABANDON DRIVEWAY
W. COLUMBIA ST
END CONSTRUCTION
STA 50+79.80
STA 159+41.69, 53.00'RT R/L N. TEUTONIA AVE =
STA 50+73.20, 55.35'RT R/L W. BURLEIGH ST
R=30'
STA 160+51.70, 40.00'RT
R/L N. TEUTONIA AVE =
STA 50+27.49, 45.56'LT
R/L W. BURLEIGH ST
R=17'
STA 51+05.21
22.00
W. BURLEIGH ST
STA 51+10.60
-26.23
STA 51+09.87
0.00
R/L W. BURLEIGH ST
END CONSTRUCTION
STA 51+86.55
STA 52+02.34
23.53
PI 52+26.63

CG01	CONCRETE CURB AND GUTTER 31-INCH
CG07	CONCRETE CURB PEDESTRIAN
CP01	CONCRETE PAVEMENT 8 1/2-INCH
CP02	CONCRETE PAVEMENT HES 8 1/2-INCH
CM09	CONCRETE LOADING ZONE
CR01	CURB RAMP TYPE 2 MODIFIED
CR02	CURB RAMP TYPE 3 MODIFIED
CR03	CURB RAMP TYPE 4A1 MODIFIED
CR04	CURB RAMP TYPE 4B1 MODIFIED
CR05	CURB RAMP TYPE 6 MODIFIED
CR06	CURB RAMP TYPE 5 MODIFIED
CR07	CURB RAMP TYPE 7A MODIFIED
CR08	CURB RAMP TYPE 7B MODIFIED
CR10	CURB RAMP TYPE 1 MODIFIED
CS01	CONCRETE SIDEWALK 5-INCH
DR07	CONCRETE DRIVEWAY 7-INCH
DR08	CONCRETE DRIVEWAY HES 7-INCH
PV10	ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
	BUTT JOINT SEE CONSTRUCTION DETAIL

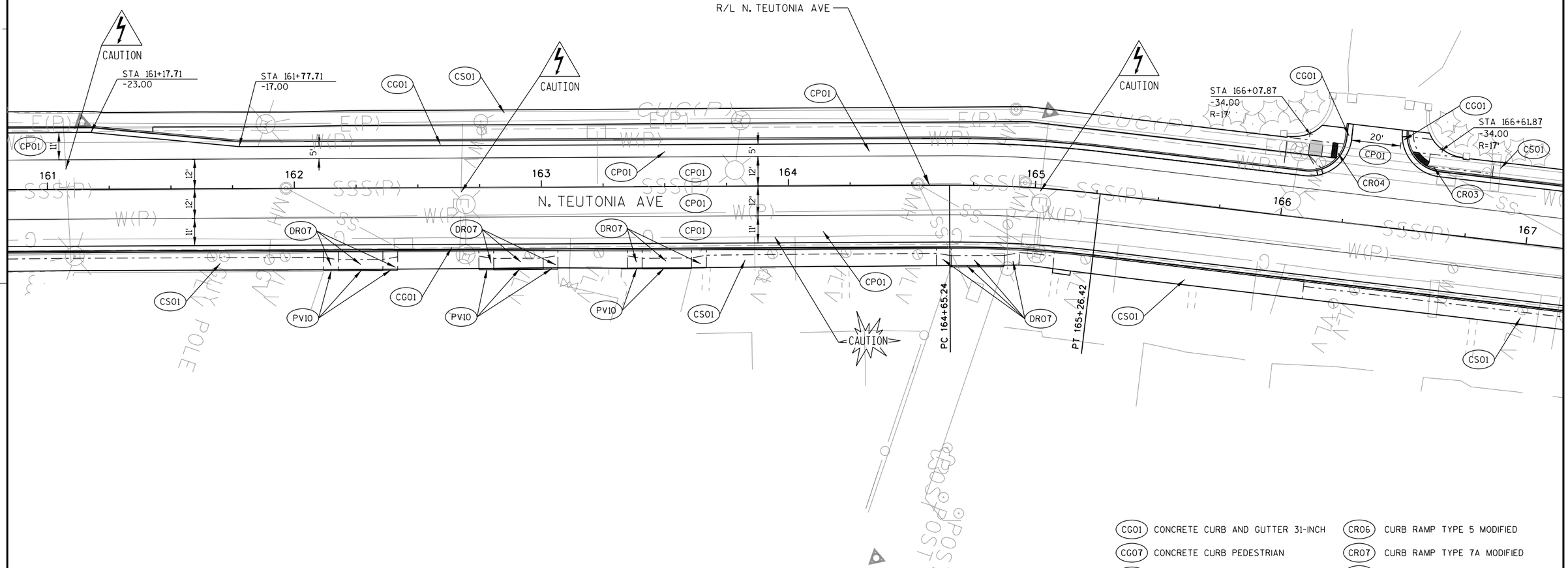
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 67	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021202_PD.dgn PLOT DATE : 10/3/2019 PLOT BY : nstyka PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTE:

1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.



CG01	CONCRETE CURB AND GUTTER 31-INCH
CG07	CONCRETE CURB PEDESTRIAN
CP01	CONCRETE PAVEMENT 8 1/2-INCH
CP02	CONCRETE PAVEMENT HES 8 1/2-INCH
CM09	CONCRETE LOADING ZONE
CR01	CURB RAMP TYPE 2 MODIFIED
CR02	CURB RAMP TYPE 3 MODIFIED
CR03	CURB RAMP TYPE 4A1 MODIFIED
CR04	CURB RAMP TYPE 4B1 MODIFIED
CR05	CURB RAMP TYPE 6 MODIFIED
CR06	CURB RAMP TYPE 5 MODIFIED
CR07	CURB RAMP TYPE 7A MODIFIED
CR08	CURB RAMP TYPE 7B MODIFIED
CR10	CURB RAMP TYPE 1 MODIFIED
CS01	CONCRETE SIDEWALK 5-INCH
DR07	CONCRETE DRIVEWAY 7-INCH
DR08	CONCRETE DRIVEWAY HES 7-INCH
PV10	ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
	BUTT JOINT SEE CONSTRUCTION DETAIL

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 68	E

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

N

STA 166+07.87
-34.00
R=17'

STA 166+61.87
-34.00
R=17'

STA 167+41.87
-23.00

STA 168+01.87
-17.00

R/L N. TEUTONIA AVE

CAUTION

N. TEUTONIA AVE

166 167 168 169 170 171 172

20'

11'

12'

5'

CG01 CONCRETE CURB AND GUTTER 31-INCH
CG07 CONCRETE CURB PEDESTRIAN
CP01 CONCRETE PAVEMENT 8 1/2-INCH
CP02 CONCRETE PAVEMENT HES 8 1/2-INCH
CM09 CONCRETE LOADING ZONE
CR01 CURB RAMP TYPE 2 MODIFIED
CR02 CURB RAMP TYPE 3 MODIFIED
CR03 CURB RAMP TYPE 4A1 MODIFIED
CR04 CURB RAMP TYPE 4B1 MODIFIED
CR05 CURB RAMP TYPE 6 MODIFIED
CR06 CURB RAMP TYPE 5 MODIFIED
CR07 CURB RAMP TYPE 7A MODIFIED
CR08 CURB RAMP TYPE 7B MODIFIED
CR10 CURB RAMP TYPE 1 MODIFIED
CS01 CONCRETE SIDEWALK 5-INCH
DR07 CONCRETE DRIVEWAY 7-INCH
DR08 CONCRETE DRIVEWAY HES 7-INCH
PV10 ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
BUTT JOINT SEE CONSTRUCTION DETAIL

STA 171+04.94, 40.00' RT R/L N. TEUTONIA AVE =
STA 50+47.32, 30.13' RT R/L W. RING ST
R=17'

STA 171+71.61, 39.00' RT
R/L N. TEUTONIA AVE =
STA 50+32.45, 34.86' LT
R/L W. RING ST
R=22'

R/L W. RING ST

W. RING ST

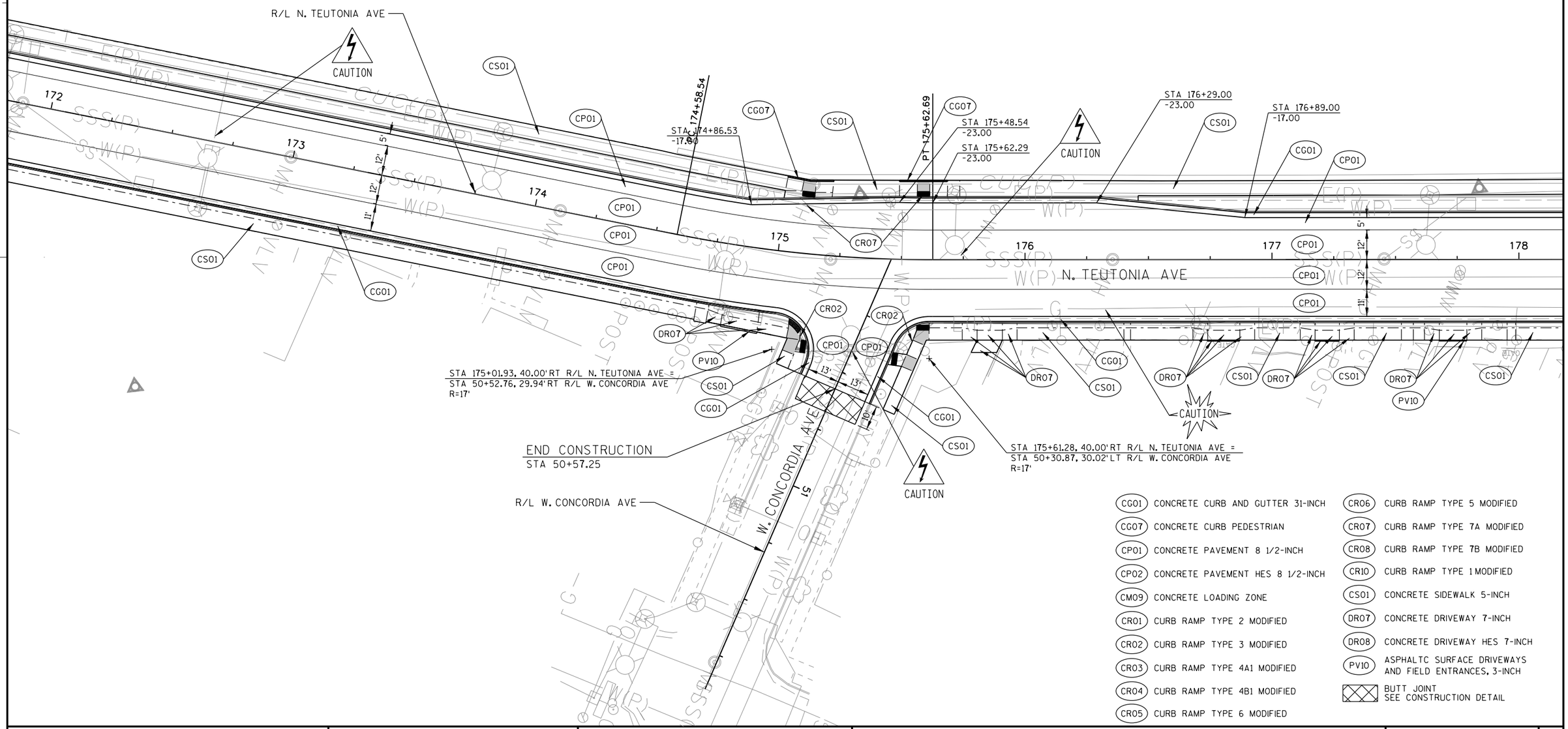
END CONSTRUCTION
STA 50+48.52

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 69	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021204_PD.dgn PLOT DATE : 10/3/2019 PLOT BY : nstyka PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.



CG01	CONCRETE CURB AND GUTTER 31-INCH	
CG07	CONCRETE CURB PEDESTRIAN	
CP01	CONCRETE PAVEMENT 8 1/2-INCH	
CP02	CONCRETE PAVEMENT HES 8 1/2-INCH	
CM09	CONCRETE LOADING ZONE	
CR01	CURB RAMP TYPE 2 MODIFIED	
CR02	CURB RAMP TYPE 3 MODIFIED	
CR03	CURB RAMP TYPE 4A1 MODIFIED	
CR04	CURB RAMP TYPE 4B1 MODIFIED	
CR05	CURB RAMP TYPE 5 MODIFIED	
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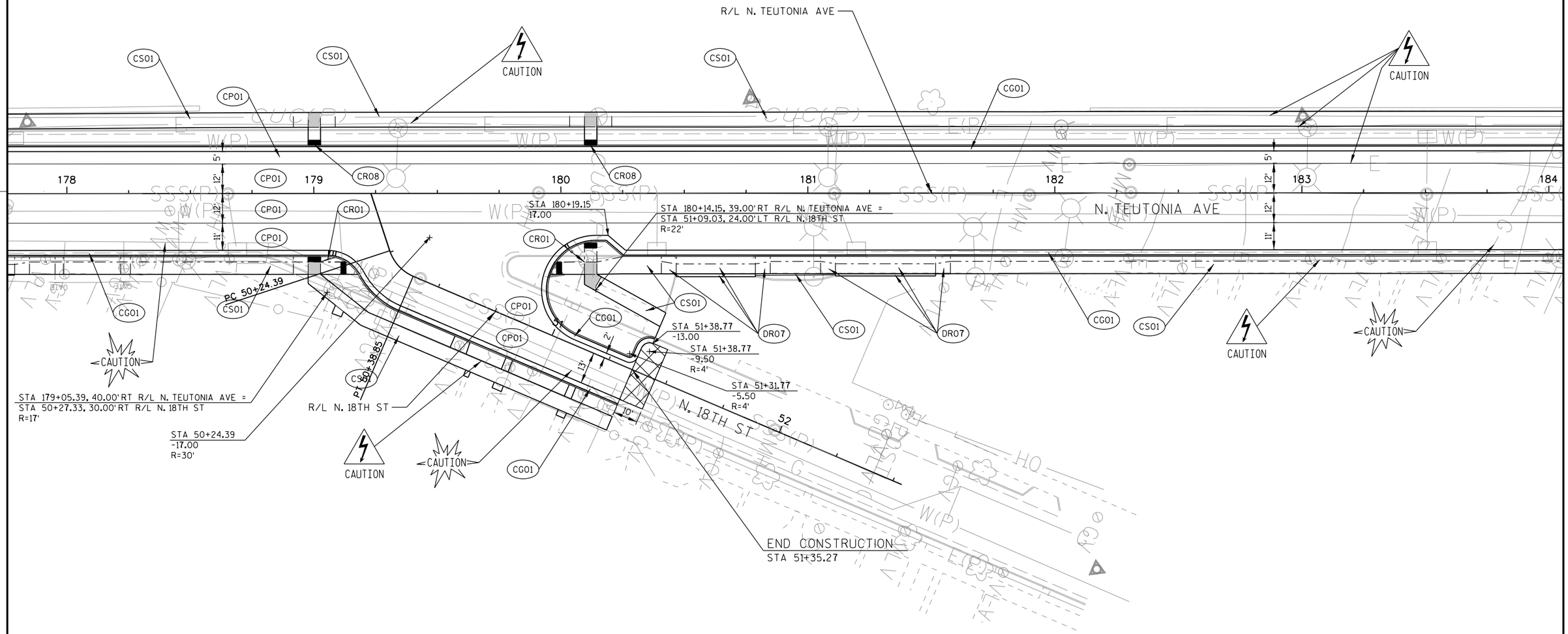
CR07	CURB RAMP TYPE 7A MODIFIED	
CR08	CURB RAMP TYPE 7B MODIFIED	
CR10	CURB RAMP TYPE 1 MODIFIED	
CS01	CONCRETE SIDEWALK 5-INCH	
DR07	CONCRETE DRIVEWAY 7-INCH	
DR08	CONCRETE DRIVEWAY HES 7-INCH	
PV10	ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH	
	BUTT JOINT SEE CONSTRUCTION DETAIL	

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 70	E

2

- CGO1 CONCRETE CURB AND GUTTER 31-INCH
- CGO7 CONCRETE CURB PEDESTRIAN
- CPO1 CONCRETE PAVEMENT 8 1/2-INCH
- CPO2 CONCRETE PAVEMENT HES 8 1/2-INCH
- CMO9 CONCRETE LOADING ZONE
- CRO1 CURB RAMP TYPE 2 MODIFIED
- CRO2 CURB RAMP TYPE 3 MODIFIED
- CRO3 CURB RAMP TYPE 4A1 MODIFIED
- CRO4 CURB RAMP TYPE 4B1 MODIFIED
- CRO5 CURB RAMP TYPE 6 MODIFIED
- CRO6 CURB RAMP TYPE 5 MODIFIED
- CRO7 CURB RAMP TYPE 7A MODIFIED
- CRO8 CURB RAMP TYPE 7B MODIFIED
- CR10 CURB RAMP TYPE 1 MODIFIED
- CSO1 CONCRETE SIDEWALK 5-INCH
- DRO7 CONCRETE DRIVEWAY 7-INCH
- DRO8 CONCRETE DRIVEWAY HES 7-INCH
- PV10 ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- BUTT JOINT SEE CONSTRUCTION DETAIL

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

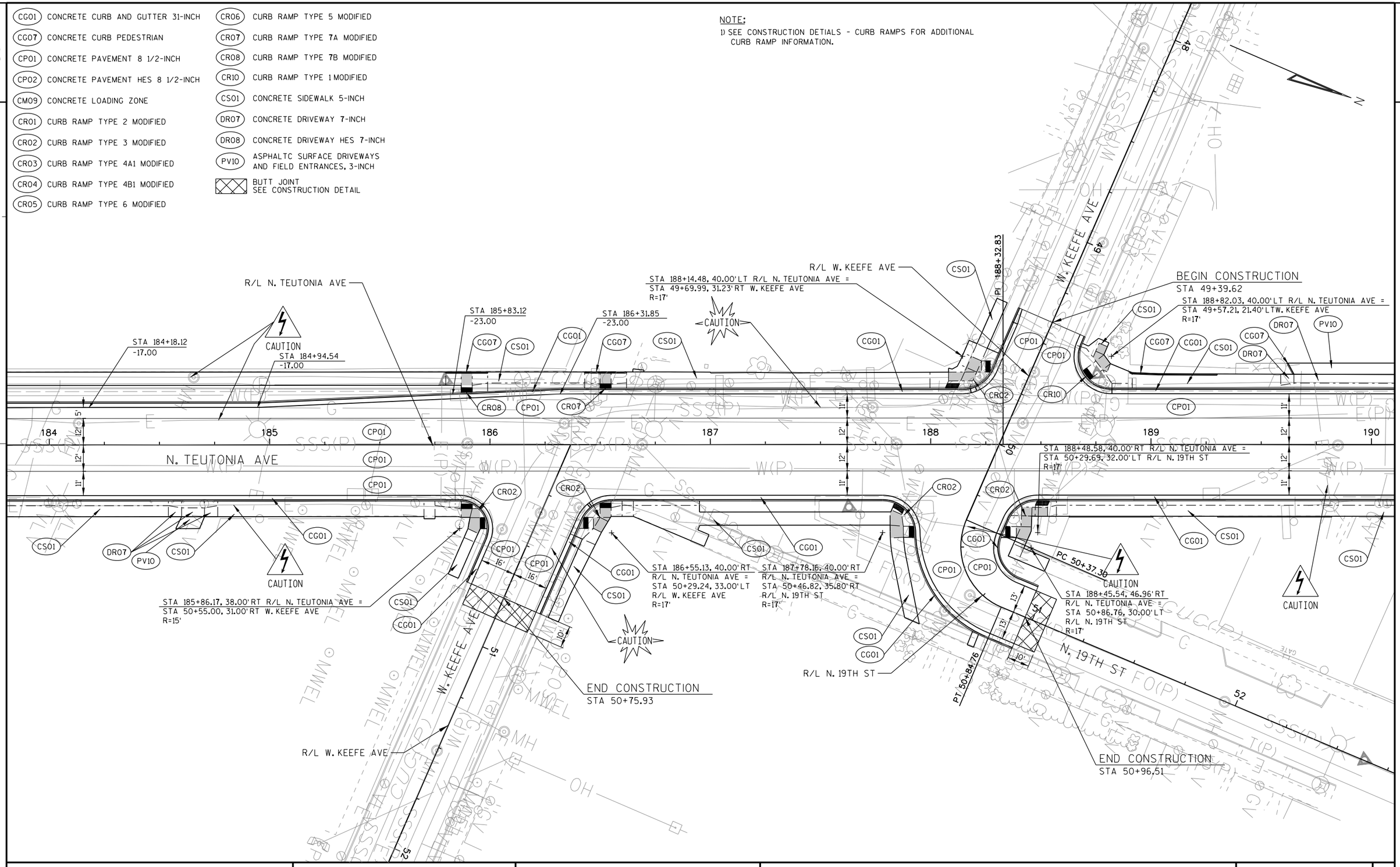


PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 71	E

2

- CGO1 CONCRETE CURB AND GUTTER 31-INCH
- CGO7 CONCRETE CURB PEDESTRIAN
- CPO1 CONCRETE PAVEMENT 8 1/2-INCH
- CPO2 CONCRETE PAVEMENT HES 8 1/2-INCH
- CM09 CONCRETE LOADING ZONE
- CRO1 CURB RAMP TYPE 2 MODIFIED
- CRO2 CURB RAMP TYPE 3 MODIFIED
- CRO3 CURB RAMP TYPE 4A1 MODIFIED
- CRO4 CURB RAMP TYPE 4B1 MODIFIED
- CRO5 CURB RAMP TYPE 6 MODIFIED
- CRO6 CURB RAMP TYPE 5 MODIFIED
- CRO7 CURB RAMP TYPE 7A MODIFIED
- CRO8 CURB RAMP TYPE 7B MODIFIED
- CR10 CURB RAMP TYPE 1 MODIFIED
- CSO1 CONCRETE SIDEWALK 5-INCH
- DRO7 CONCRETE DRIVEWAY 7-INCH
- DRO8 CONCRETE DRIVEWAY HES 7-INCH
- PV10 ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- BUTT JOINT SEE CONSTRUCTION DETAIL

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 72	E

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

R/L W. FINN PL

BEGIN CONSTRUCTION
STA 49+36.84

STA 192+20.54, 39.00'LT R/L N. TEUTONIA AVE =
STA 49+72.73, 35.00'RT R/L W. FINN PL
R=22'

R/L N. TEUTONIA AVE

STA 192+91.91, 40.00'LT R/L N. TEUTONIA AVE =
STA 49+43.24, 30.00'LT R/L W. FINN PL
R=17'

STA 192+44.05, 46.90'RT R/L N. TEUTONIA AVE =
STA 50+78.65, 63.00'RT R/L W. FINN PL
R=50'

STA 192+76.32, 40.00'RT R/L N. TEUTONIA AVE =
STA 50+59.42, 36.18'RT R/L W. FINN PL
R=17'

STA 193+48.52, 40.00'RT R/L N. TEUTONIA AVE =
STA 50+30.55, 30.00'LTR/L W. FINN PL
R=17'

R/L W. FINN PL

END CONSTRUCTION
STA 50+78.65

N. TEUTONIA AVE

W. FINN PL

CG01	CONCRETE CURB AND GUTTER 31-INCH
CG07	CONCRETE CURB PEDESTRIAN
CP01	CONCRETE PAVEMENT 8 1/2-INCH
CP02	CONCRETE PAVEMENT HES 8 1/2-INCH
CM09	CONCRETE LOADING ZONE
CR01	CURB RAMP TYPE 2 MODIFIED
CR02	CURB RAMP TYPE 3 MODIFIED
CR03	CURB RAMP TYPE 4A1 MODIFIED
CR04	CURB RAMP TYPE 4B1 MODIFIED
CR05	CURB RAMP TYPE 6 MODIFIED
CR06	CURB RAMP TYPE 5 MODIFIED
CR07	CURB RAMP TYPE 7A MODIFIED
CR08	CURB RAMP TYPE 7B MODIFIED
CR10	CURB RAMP TYPE 1 MODIFIED
CS01	CONCRETE SIDEWALK 5-INCH
DR07	CONCRETE DRIVEWAY 7-INCH
DR08	CONCRETE DRIVEWAY HES 7-INCH
PV10	ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
	BUTT JOINT SEE CONSTRUCTION DETAIL

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 73	E

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

STA 198+05.30, 40.00'LT R/L N. TEUTONIA AVE =
STA 49+67.31, 25.16'RT R/L W. NASH ST
R=17'

BEGIN CONSTRUCTION
STA 49+52.90

R/L N. TEUTONIA AVE

STA 198+47.42, 32.00'LT
R/L N. TEUTONIA AVE =
STA 49+57.96, 16.85'LT
R/L W. NASH ST
R=9'

STA 201+31.40
0.00

STA 197+69.35, 40.00'RT
R/L N. TEUTONIA AVE =
STA 50+56.82, 30.00'RT
R/L W. NASH ST
R=17'

STA 198+35.00, 40.00'RT R/L N. TEUTONIA AVE =
STA 50+30.59, 30.00'LT R/L W. NASH ST
R=17'

CAUTION: ACTIVE WINDOW WELL WORK BY OTHERS SEE PROPOSAL ARTICLE "PROSECUTION AND PROGRESS" FOR MORE INFORMATION

END CONSTRUCTION
STA 50+80.21

CAUTION

CG01	CONCRETE CURB AND GUTTER 31-INCH
CG07	CONCRETE CURB PEDESTRIAN
CP01	CONCRETE PAVEMENT 8 1/2-INCH
CP02	CONCRETE PAVEMENT HES 8 1/2-INCH
CM09	CONCRETE LOADING ZONE
CR01	CURB RAMP TYPE 2 MODIFIED
CR02	CURB RAMP TYPE 3 MODIFIED
CR03	CURB RAMP TYPE 4A1 MODIFIED
CR04	CURB RAMP TYPE 4B1 MODIFIED
CR05	CURB RAMP TYPE 6 MODIFIED
CR06	CURB RAMP TYPE 5 MODIFIED
CR07	CURB RAMP TYPE 7A MODIFIED
CR08	CURB RAMP TYPE 7B MODIFIED
CR10	CURB RAMP TYPE 1 MODIFIED
CS01	CONCRETE SIDEWALK 5-INCH
DR07	CONCRETE DRIVEWAY 7-INCH
DR08	CONCRETE DRIVEWAY HES 7-INCH
PV10	ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
	BUTT JOINT SEE CONSTRUCTION DETAIL

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 74	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021209_PD.dgn PLOT DATE : 10/3/2019 PLOT BY : nstyka PLOT NAME : PLOT SCALE : 1:40

2

CGO1 CONCRETE CURB AND GUTTER 31-INCH
CGO7 CONCRETE CURB PEDESTRIAN
CPO1 CONCRETE PAVEMENT 8 1/2-INCH
CPO2 CONCRETE PAVEMENT HES 8 1/2-INCH
CM09 CONCRETE LOADING ZONE
CRO1 CURB RAMP TYPE 2 MODIFIED
CRO2 CURB RAMP TYPE 3 MODIFIED
CRO3 CURB RAMP TYPE 4A1 MODIFIED
CRO4 CURB RAMP TYPE 4B1 MODIFIED
CRO5 CURB RAMP TYPE 6 MODIFIED
CRO6 CURB RAMP TYPE 5 MODIFIED
CRO7 CURB RAMP TYPE 7A MODIFIED
CRO8 CURB RAMP TYPE 7B MODIFIED
CR10 CURB RAMP TYPE 1 MODIFIED
CSO1 CONCRETE SIDEWALK 5-INCH
DRO7 CONCRETE DRIVEWAY 7-INCH
DRO8 CONCRETE DRIVEWAY HES 7-INCH
PV10 ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
BUTT JOINT SEE CONSTRUCTION DETAIL

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

N

EXISTING CURB AND RAMP TO REMAIN

BEGIN CONSTRUCTION
STA 40+09.84

W. VIENNA AVE

N. 20TH ST

PT 202+85.65

PC 49+36.98

49

STA 202+67.38, 40.00'LT
R/L N. TEUTONIA AVE =
STA 49+12.73, 30.19'LT
R/L N. 20TH ST
R=17'

PT 48+89.98

BEGIN CONSTRUCTION
STA 49+00.19

STA 203+52.36, 67.15'LT R/L N. TEUTONIA AVE =
STA 49+12.55, 32.80'LT R/L W. VIENNA AVE
R=20'

PT 49+58.84

STA 203+75.71, 40.00'LT R/L N. TEUTONIA AVE =
STA 49+77.38, 55.52'LT R/L N. 20TH ST
R=17'

R/L N. TEUTONIA AVE

STA 202+34.40
0.00
R=3'
43'
23'

STA 202+39.40
3.02
44'
22'

STA 203+10.17
0.21
R=3'

202 203 204 205 206 207 208

11' 12' 12' 11'

STA 202+88.19
3.07

STA 202+95.39, 40.00'RT R/L N. TEUTONIA AVE =
STA 50+39.20, 30.00'LT R/L W. VIENNA AVE
R=17'

STA 202+35.49, 40.00'RT R/L N. TEUTONIA AVE =
STA 50+43.12, 30.00'RT R/L W. VIENNA AVE
R=17'

END CONSTRUCTION
STA 50+94.71

CAUTION

STA 205+25.77, 40.00'RT
R/L N. TEUTONIA AVE =
STA 50+30.19, 34.02'RT
R/L N. 20TH ST
R=17'

PC 50+31.16

PT 50+81.02

N. TEUTONIA AVE

CAUTION

STA 206+28.67, 40.00'RT
R/L N. TEUTONIA AVE =
STA 51+04.75, 33.66'LT
R/L N. 20TH ST
R=17'

51

10'

52

N. 20TH ST

CAUTION

END CONSTRUCTION
STA 51+34.40

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 75	E

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

BEGIN CONSTRUCTION
STA 49+23.76

BEGIN CONSTRUCTION
STA 48+80.52

PC 49+37.20

CAUTION
STA 49+45.03
-14.54

STA 49+70.79
-21.08

STA 212+30.19, 40.00'LT
R/L N. TEUTONIA AVE =
STA 49+71.31, 38.07'LT
R/L N. 21ST ST
R=17'

R/L N. TEUTONIA AVE

STA 210+04.81, 40.00'LT
R/L N. TEUTONIA AVE =
STA 49+69.56, 30.19'RT
R/L W. MELVINA ST
R=17'

STA 210+70.26, 40.00'LT
R/L N. TEUTONIA AVE =
STA 49+43.30, 29.81'LT
R/L W. MELVINA ST
R=17'

STA 211+29.14, 40.00'LT
R/L N. TEUTONIA AVE =
STA 49+00.57, 29.80'RT
R/L W. MELVINA ST
R=17'

W. MELVINA ST

N. 21ST ST

N. TEUTONIA AVE

208 209 210 211 212 213 214

STA 209+69.77, 40.00'RT
R/L N. TEUTONIA AVE =
STA 50+56.90, 30.15'RT
R/L W. MELVINA ST
R=17'

STA 210+35.30, 40.00'RT
R/L N. TEUTONIA AVE =
STA 50+30.61, 29.83'LT
R/L W. MELVINA ST
R=17'

PC 210+20.23

PC 213+20.37

STA 213+92.87, 40.00'RT
R/L N. TEUTONIA AVE =
STA 50+30.71, 32.5'RT
R/L N. 21ST ST
R=17'

END CONSTRUCTION
STA 50+99.30

CAUTION

CG01	CONCRETE CURB AND GUTTER 31-INCH
CG07	CONCRETE CURB PEDESTRIAN
CP01	CONCRETE PAVEMENT 8 1/2-INCH
CP02	CONCRETE PAVEMENT HES 8 1/2-INCH
CM09	CONCRETE LOADING ZONE
CR01	CURB RAMP TYPE 2 MODIFIED
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CR10	CURB RAMP TYPE 1 MODIFIED
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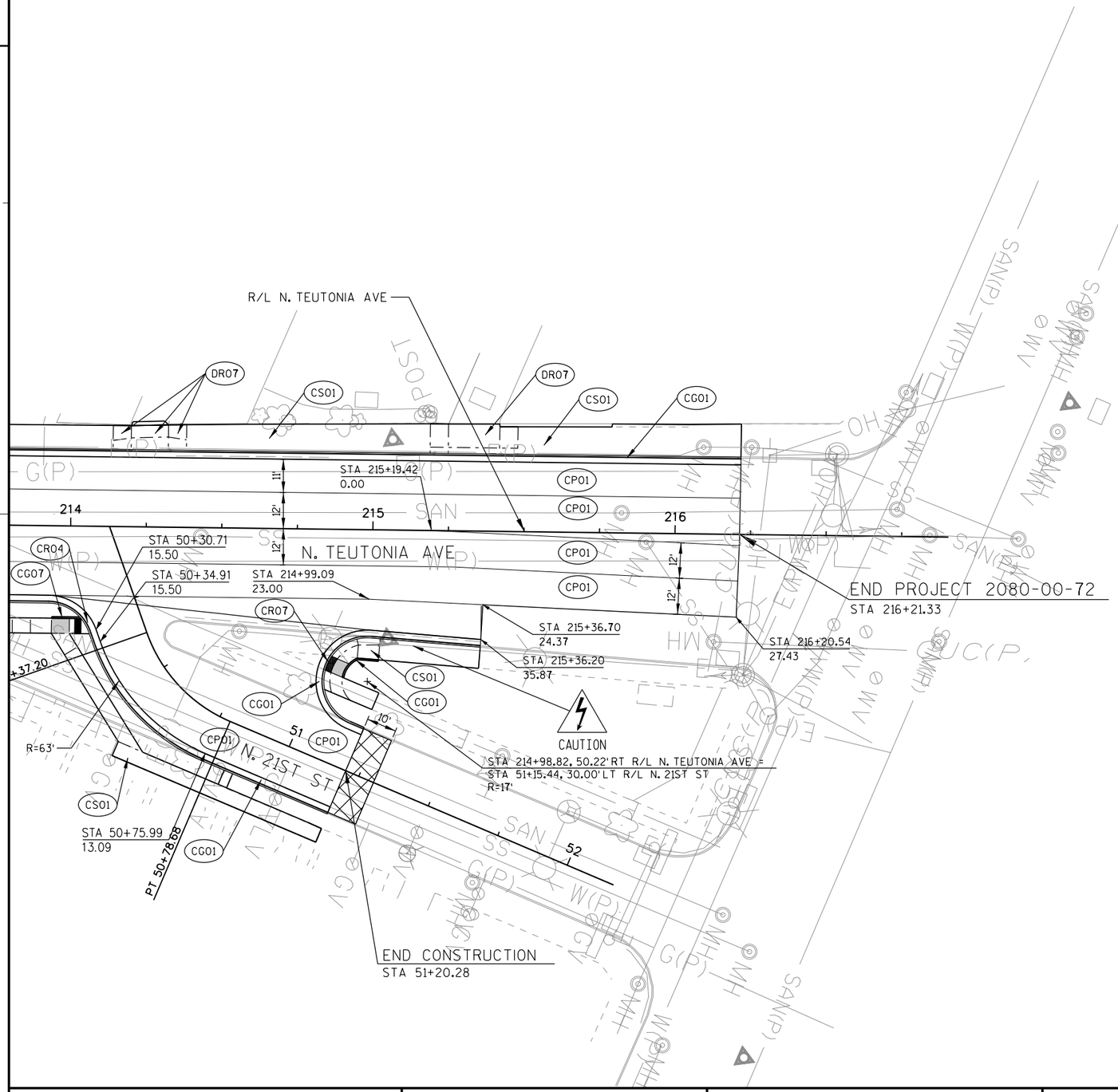
DR07	CONCRETE DRIVEWAY 7-INCH
DR08	CONCRETE DRIVEWAY HES 7-INCH
PV10	ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
	BUTT JOINT SEE CONSTRUCTION DETAIL

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 76	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021211_PD.dgn PLOT DATE : 10/3/2019 PLOT BY : nstyka PLOT NAME : PLOT SCALE : 1:40

NOTE:

1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.



CG01	CONCRETE CURB AND GUTTER 31-INCH
CG07	CONCRETE CURB PEDESTRIAN
CP01	CONCRETE PAVEMENT 8 1/2-INCH
CP02	CONCRETE PAVEMENT HES 8 1/2-INCH
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DR08	CONCRETE DRIVEWAY HES 7-INCH
PV10	ASPHALTC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
	BUTT JOINT SEE CONSTRUCTION DETAIL

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN DETAILS - N. TEUTONIA AVE	SHEET 77	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

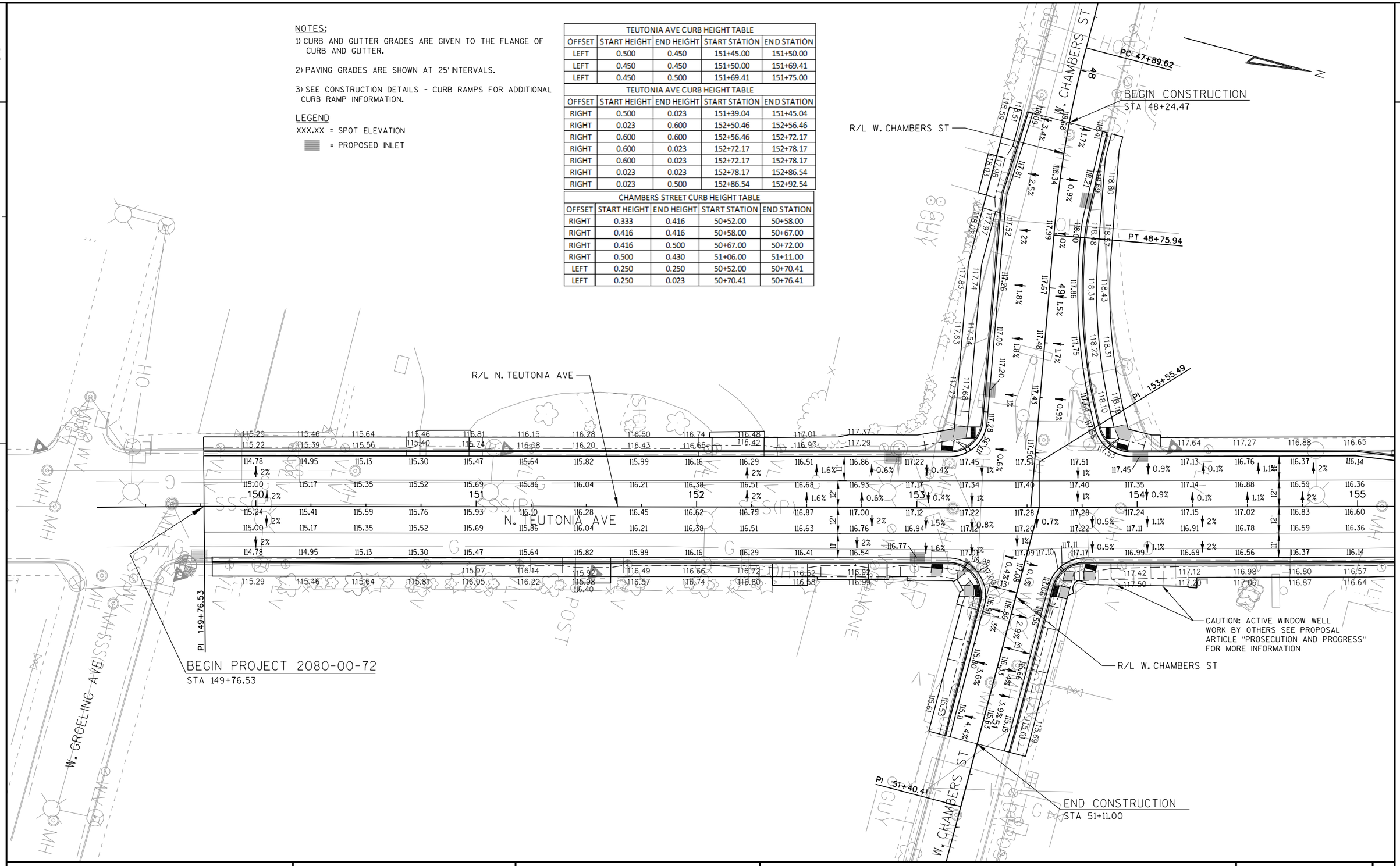
XXX.XX = SPOT ELEVATION

= PROPOSED INLET

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
LEFT	0.500	0.450	151+45.00	151+50.00
LEFT	0.450	0.450	151+50.00	151+69.41
LEFT	0.450	0.500	151+69.41	151+75.00

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.500	0.023	151+39.04	151+45.04
RIGHT	0.023	0.600	152+50.46	152+56.46
RIGHT	0.600	0.600	152+56.46	152+72.17
RIGHT	0.600	0.023	152+72.17	152+78.17
RIGHT	0.600	0.023	152+72.17	152+78.17
RIGHT	0.023	0.023	152+78.17	152+86.54
RIGHT	0.023	0.500	152+86.54	152+92.54

CHAMBERS STREET CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.333	0.416	50+52.00	50+58.00
RIGHT	0.416	0.416	50+58.00	50+67.00
RIGHT	0.416	0.500	50+67.00	50+72.00
RIGHT	0.500	0.430	51+06.00	51+11.00
LEFT	0.250	0.250	50+52.00	50+70.41
LEFT	0.250	0.023	50+70.41	50+76.41



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 78	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

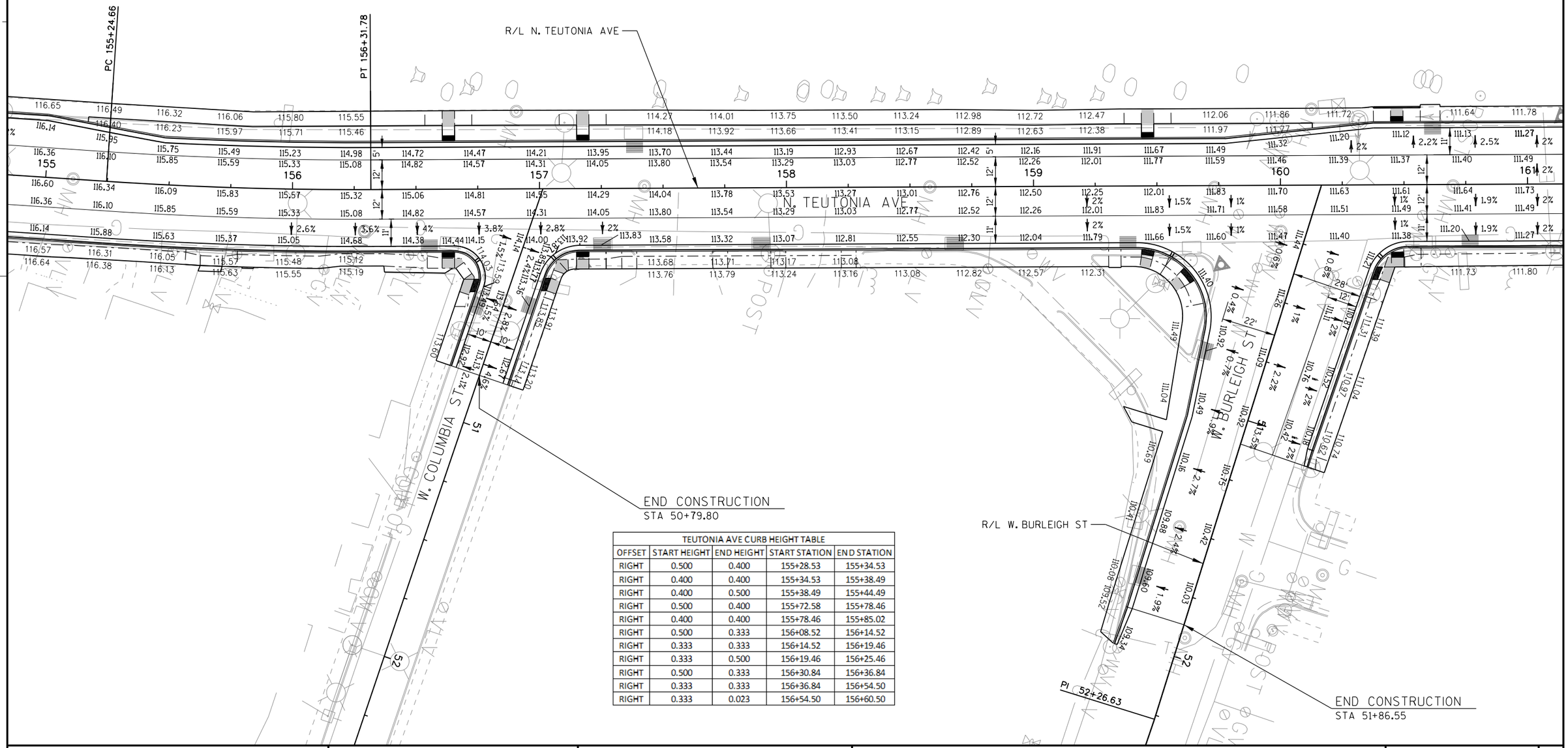
2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



TEUTONIA AVE CURB HEIGHT TABLE

OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.500	0.400	155+28.53	155+34.53
RIGHT	0.400	0.400	155+34.53	155+38.49
RIGHT	0.400	0.500	155+38.49	155+44.49
RIGHT	0.500	0.400	155+72.58	155+78.46
RIGHT	0.400	0.400	155+78.46	155+85.02
RIGHT	0.500	0.333	156+08.52	156+14.52
RIGHT	0.333	0.333	156+14.52	156+19.46
RIGHT	0.333	0.500	156+19.46	156+25.46
RIGHT	0.500	0.333	156+30.84	156+36.84
RIGHT	0.333	0.333	156+36.84	156+54.50
RIGHT	0.333	0.023	156+54.50	156+60.50

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 79	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

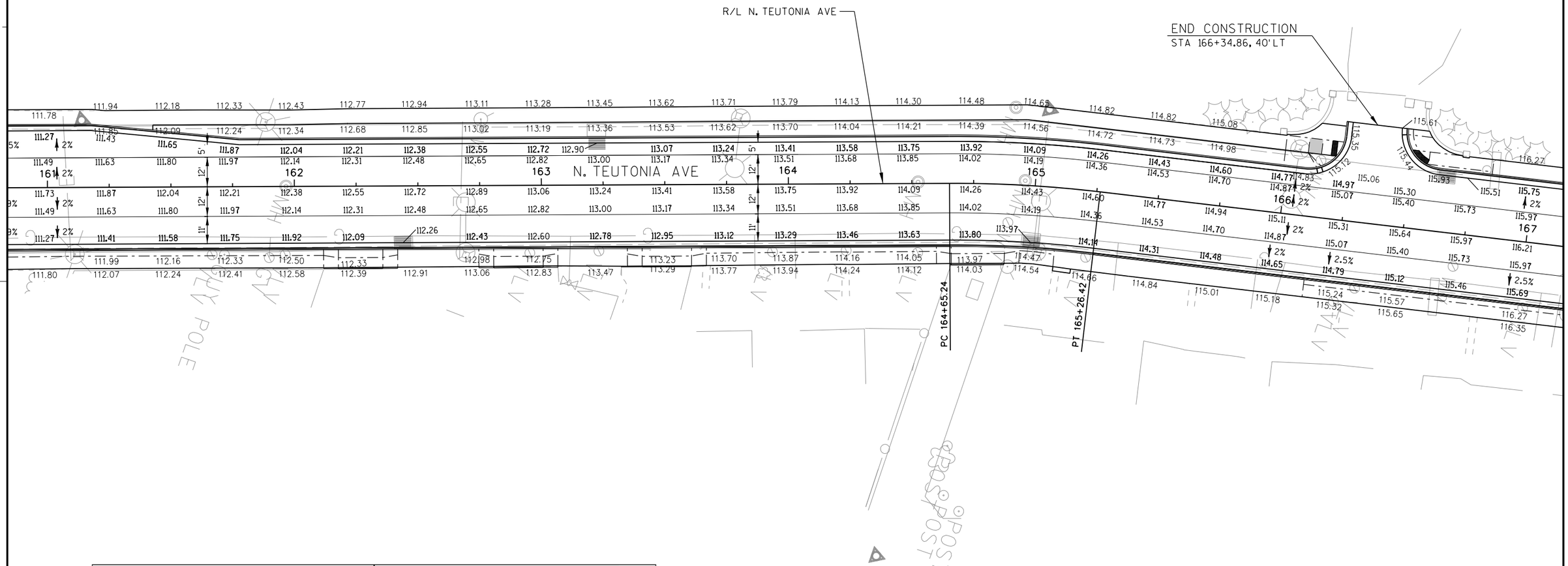
2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
LEFT	0.500	0.333	161+70.00	161+80.00
LEFT	0.333	0.333	161+80.00	162+00.00
LEFT	0.333	0.500	162+00.00	162+10.00
LEFT	0.500	0.333	163+70.00	163+80.00
LEFT	0.333	0.333	163+80.00	164+00.00
LEFT	0.333	0.500	164+00.00	164+10.00
LEFT	0.500	0.333	165+27.50	165+37.50
LEFT	0.333	0.333	165+37.50	165+70.00
LEFT	0.333	0.500	165+70.00	165+80.00

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.023	0.523	163+60.67	163+66.67
RIGHT	0.523	0.520	163+66.67	163+68.32
RIGHT	0.500	0.640	164+16.21	164+21.21
RIGHT	0.640	0.640	164+21.21	164+24.25
RIGHT	0.640	0.500	164+24.25	164+32.25

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 80	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021233_PG.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

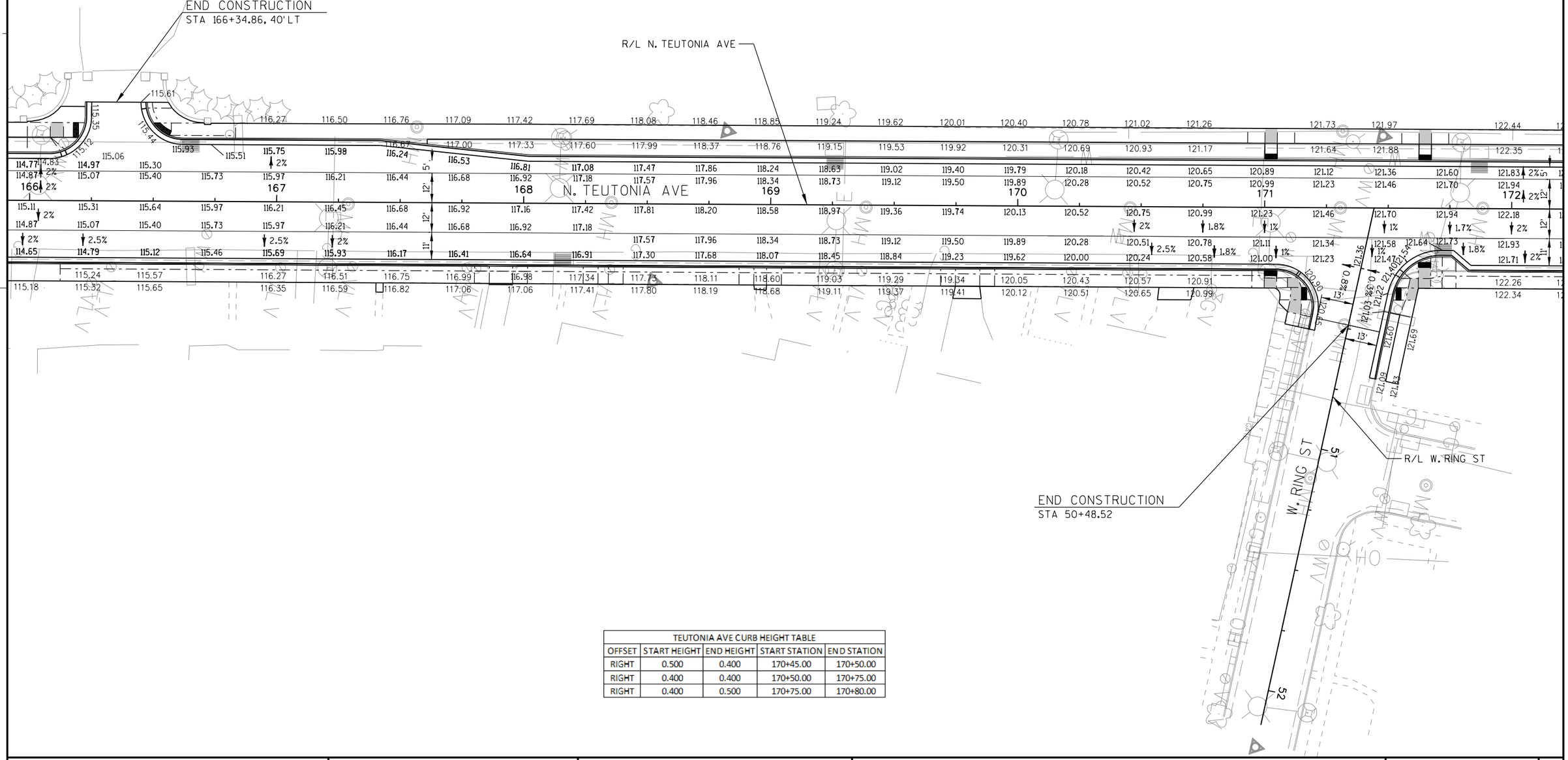
2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.500	0.400	170+45.00	170+50.00
RIGHT	0.400	0.400	170+50.00	170+75.00
RIGHT	0.400	0.500	170+75.00	170+80.00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 81	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021234_PG.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N

R/L N. TEUTONIA AVE

PC 174+58.54

PT 175+62.69

N. TEUTONIA AVE

END CONSTRUCTION
STA 50+57.25

R/L W. CONCORDIA AVE

W. CONCORDIA AVE

STA 175+61.28, 40.00' RT R/L N. TEUTONIA AVE =
STA 50+30.87, 30.02' LT R/L W. CONCORDIA AVE
R=17'

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.023	0.350	177+78.89	177+84.89
RIGHT	0.350	0.350	177+84.89	178+25.72

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 82	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

R/L N. 18TH ST

N. 18TH ST

PC 50+24.39

PT 50+38.85

END CONSTRUCTION
STA 51+35.27

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.350	0.350	177+84.89	178+25.72
RIGHT	0.350	0.023	178+25.72	178+30.72
RIGHT	0.023	0.400	180+78.77	180+84.77
RIGHT	0.400	0.400	180+84.77	181+05.13
RIGHT	0.400	0.023	181+05.13	181+11.13
RIGHT	0.023	0.500	181+51.71	181+57.71

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 83	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

R/L N. TEUTONIA AVE

R/L W. KEEFE AVE

PI 188+32.83

BEGIN CONSTRUCTION
STA 49+39.62

N. TEUTONIA AVE

W. KEEFE AVE

END CONSTRUCTION
STA 50+75.93

R/L W. KEEFE AVE

R/L N. 19TH ST

PC 50+37.30

PT 50+84.76

N. 19TH ST

END CONSTRUCTION
STA 50+96.51

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
LEFT	0.500	0.416	184+40.00	184+50.00
LEFT	0.416	0.416	184+50.00	185+10.00
LEFT	0.416	0.416	185+00.00	185+20.00
LEFT	0.416	0.500	185+20.00	185+25.00

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.400	0.400	188+57.06	189+35.00
RIGHT	0.400	0.500	189+35.00	189+40.00
RIGHT	0.400	0.400	189+75.00	191+80.00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 84	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021237_PG.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

R/L W. FINN PL

W. FINN PL

BEGIN CONSTRUCTION
STA 49+36.84

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

R/L W. FINN PL

W. FINN PL

END CONSTRUCTION
STA 50+78.65

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
LEFT	0.023	0.700	191+20.21	191+26.21
LEFT	0.250	0.250	193+56.13	193+73.86
LEFT	0.250	0.023	193+73.86	193+79.86
LEFT	0.023	0.416	193+89.57	193+95.56
LEFT	0.416	0.400	193+95.56	194+09.96
LEFT	0.416	0.023	194+09.96	194+15.96

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.400	0.400	189+75.00	191+80.00
RIGHT	0.400	0.500	191+80.00	191+90.54
RIGHT	0.500	0.300	192+08.00	192+15.54
RIGHT	0.300	0.300	192+15.54	192+54.57
RIGHT	0.300	0.023	192+54.57	192+63.89
RIGHT	0.500	0.400	194+80.00	194+85.00
RIGHT	0.400	0.450	194+85.00	195+40.00
RIGHT	0.400	0.450	195+40.00	195+47.60
RIGHT	0.450	0.023	195+47.60	195+53.60

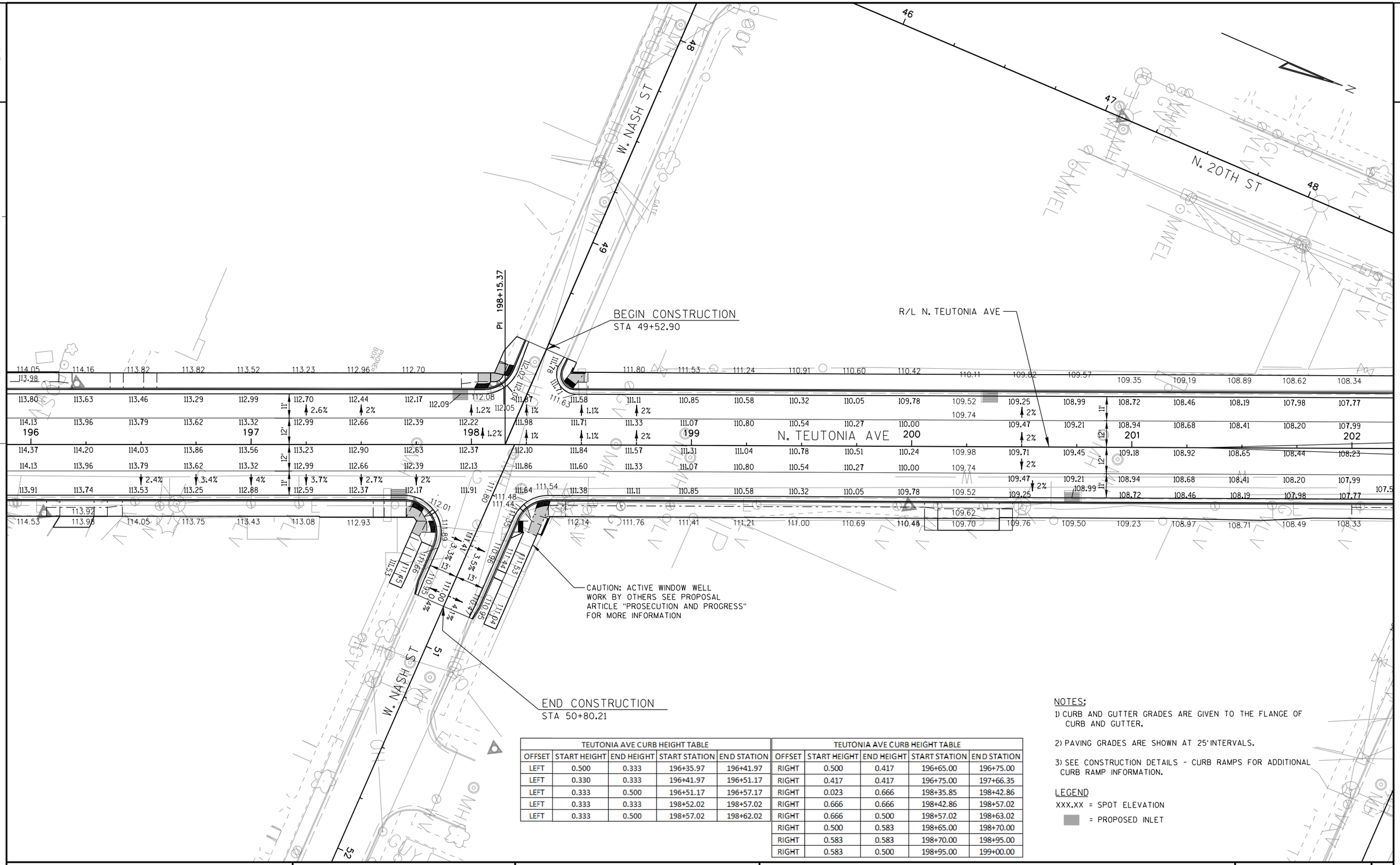
FINN STREET CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.330	0.330	0+10.00	0+28.00
RIGHT	0.330	0.250	0+28.00	0+32.05

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 85	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021238_PG.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2



TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
LEFT	0.500	0.333	196+35.97	196+41.97
LEFT	0.330	0.333	196+41.97	196+51.17
LEFT	0.333	0.500	196+51.17	196+57.17
LEFT	0.333	0.333	198+52.02	198+57.02
LEFT	0.333	0.500	198+57.02	198+62.02

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.500	0.417	196+65.00	196+75.00
RIGHT	0.417	0.417	196+75.00	197+66.35
RIGHT	0.023	0.666	198+35.85	198+42.86
RIGHT	0.666	0.666	198+42.86	198+57.02
RIGHT	0.666	0.500	198+57.02	198+63.02
RIGHT	0.500	0.583	198+65.00	198+70.00
RIGHT	0.583	0.583	198+70.00	198+95.00
RIGHT	0.583	0.500	198+95.00	199+00.00

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 86	E

2

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N

BEGIN CONSTRUCTION
STA 40+09.84

BEGIN CONSTRUCTION
STA 49+00.19

W. VIENNA AVE

N. 20TH ST

PI 202+85.65

PC 49+36.98

PT 49+58.84

PI 48+69.98

R/L N. TEUTONIA AVE

PC 50+31.16

PT 50+72.71

N. TEUTONIA AVE

N. 20TH ST

W. VIENNA AVE

END CONSTRUCTION
STA 50+94.71

END CONSTRUCTION
STA 51+34.40

TEUTONIA AVE CURB HEIGHT TABLE					TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION	OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
LEFT	0.500	0.750	204+90.00	205+00.00	RIGHT	0.500	0.400	202+10.76	202+15.00
LEFT	0.750	0.750	205+00.00	205+10.00	RIGHT	0.400	0.400	202+15.00	202+30.00
LEFT	0.750	0.000	205+10.00	205+17.58	RIGHT	0.400	0.350	202+30.00	202+34.46

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 87	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021240_PG.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N

W. MELVINA ST

N. 21ST ST

N. TEUTONIA AVE

R/L N. TEUTONIA AVE

BEGIN CONSTRUCTION
STA 49+23.76

BEGIN CONSTRUCTION
STA 48+80.52

PC 49+37.56

PT 49+62.10

PC 50+37.20

PI 213+20.37

PI 210+20.23

END CONSTRUCTION
STA 50+99.30

TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
RIGHT	0.250	0.023	210+27.84	210+34.02

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 88	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\021241_PG.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

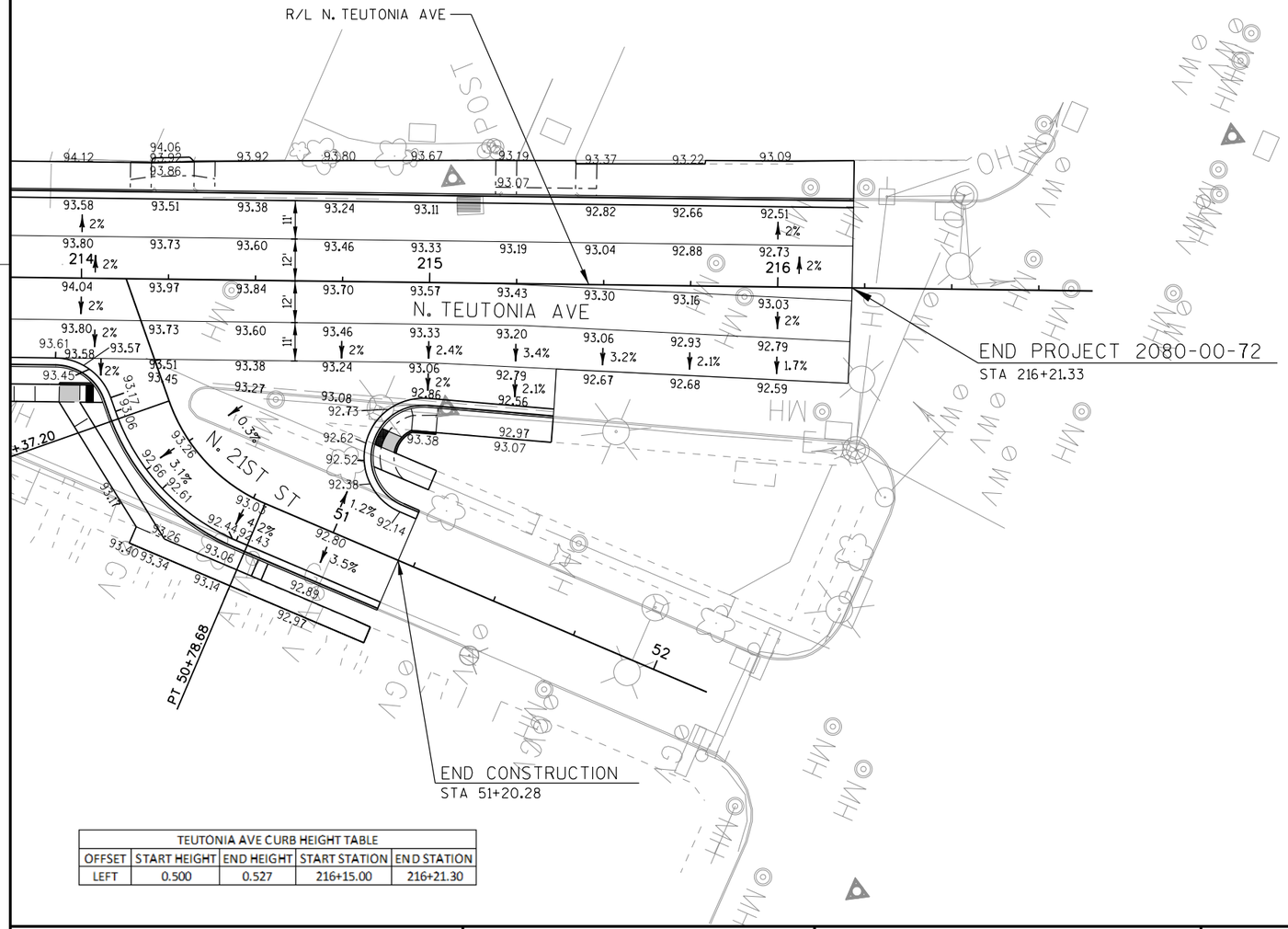
3) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N



TEUTONIA AVE CURB HEIGHT TABLE				
OFFSET	START HEIGHT	END HEIGHT	START STATION	END STATION
LEFT	0.500	0.527	216+15.00	216+21.30

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVING GRADES - N. TEUTONIA AVE	SHEET 89	E

NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO OR THREE PROTECTIONS, PLACE TYPE B OR C BEFORE CONSTRUCTION BEGINS. PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE B OR C IMMEDIATELY AFTER INLET COVER IS PLACED.

LEGEND

- SOD LAWN
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- SURFACE WATER FLOW

N

BEGIN PROJECT 2080-00-72
STA 149+76.53

R/L W. CHAMBERS ST

R/L N. TEUTONIA AVE

SLOPE INTERCEPT (TYP)

R/W (TYP)

N. TEUTONIA AVE

W. GROELING AVE

W. CHAMBERS ST

W. COLUMBIA ST

W. BURLEIGH ST

R/L W. CHAMBERS ST

R/L W. COLUMBIA ST

R/L W. BURLEIGH ST

150 152 154 156 158 160 162

48 52 52 52

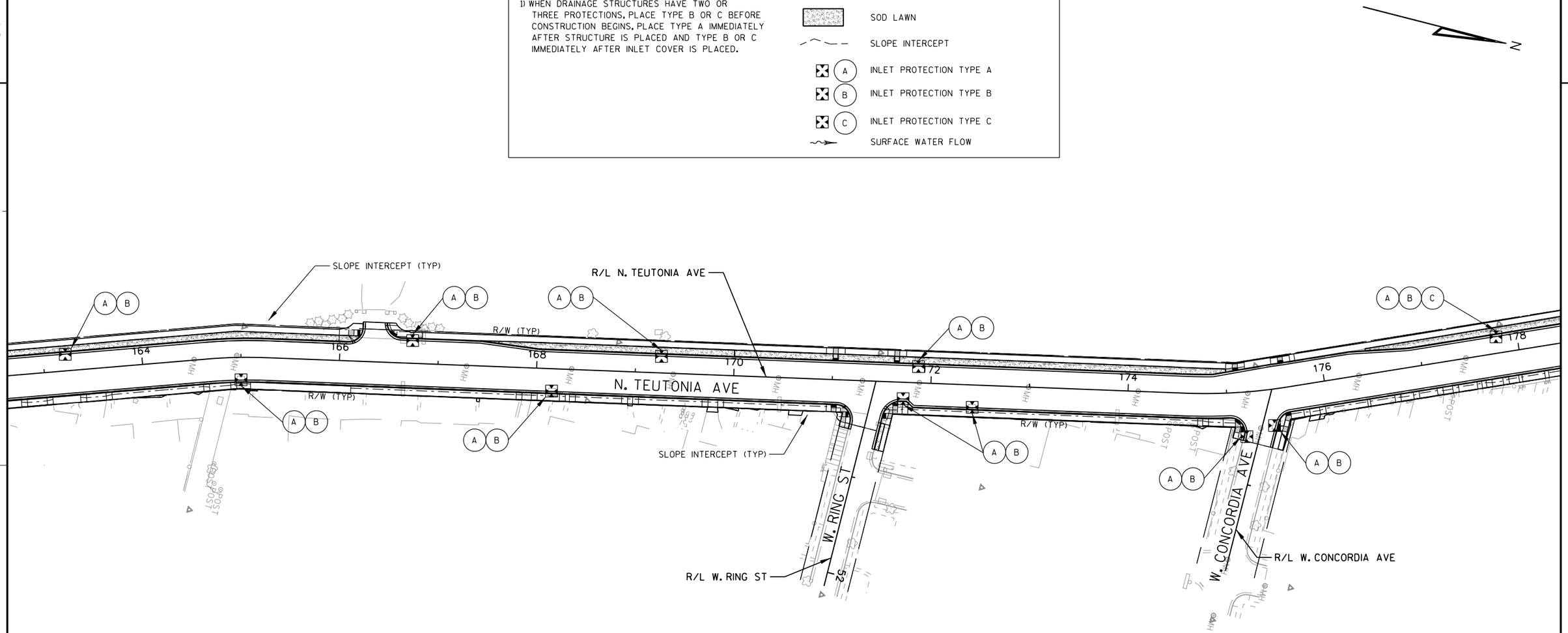
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SHEET 90	E

NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO OR THREE PROTECTIONS, PLACE TYPE B OR C BEFORE CONSTRUCTION BEGINS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE B OR C IMMEDIATELY AFTER INLET COVER IS PLACED.

LEGEND

- SOD LAWN
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- SURFACE WATER FLOW



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SHEET 91	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022002_EC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

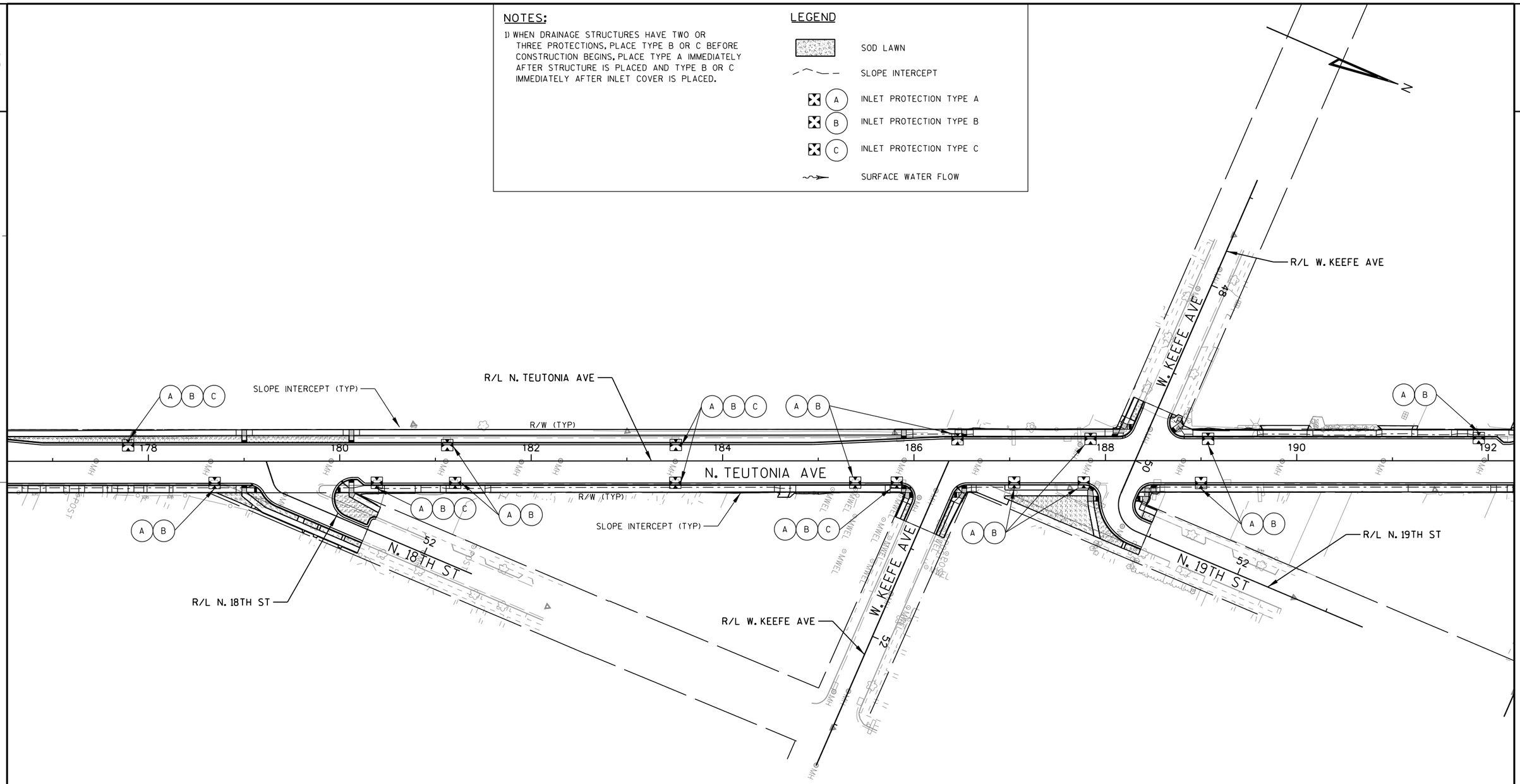
2

NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO OR THREE PROTECTIONS, PLACE TYPE B OR C BEFORE CONSTRUCTION BEGINS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE B OR C IMMEDIATELY AFTER INLET COVER IS PLACED.

LEGEND

- SOD LAWN
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- SURFACE WATER FLOW



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SHEET 92	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022003_EC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

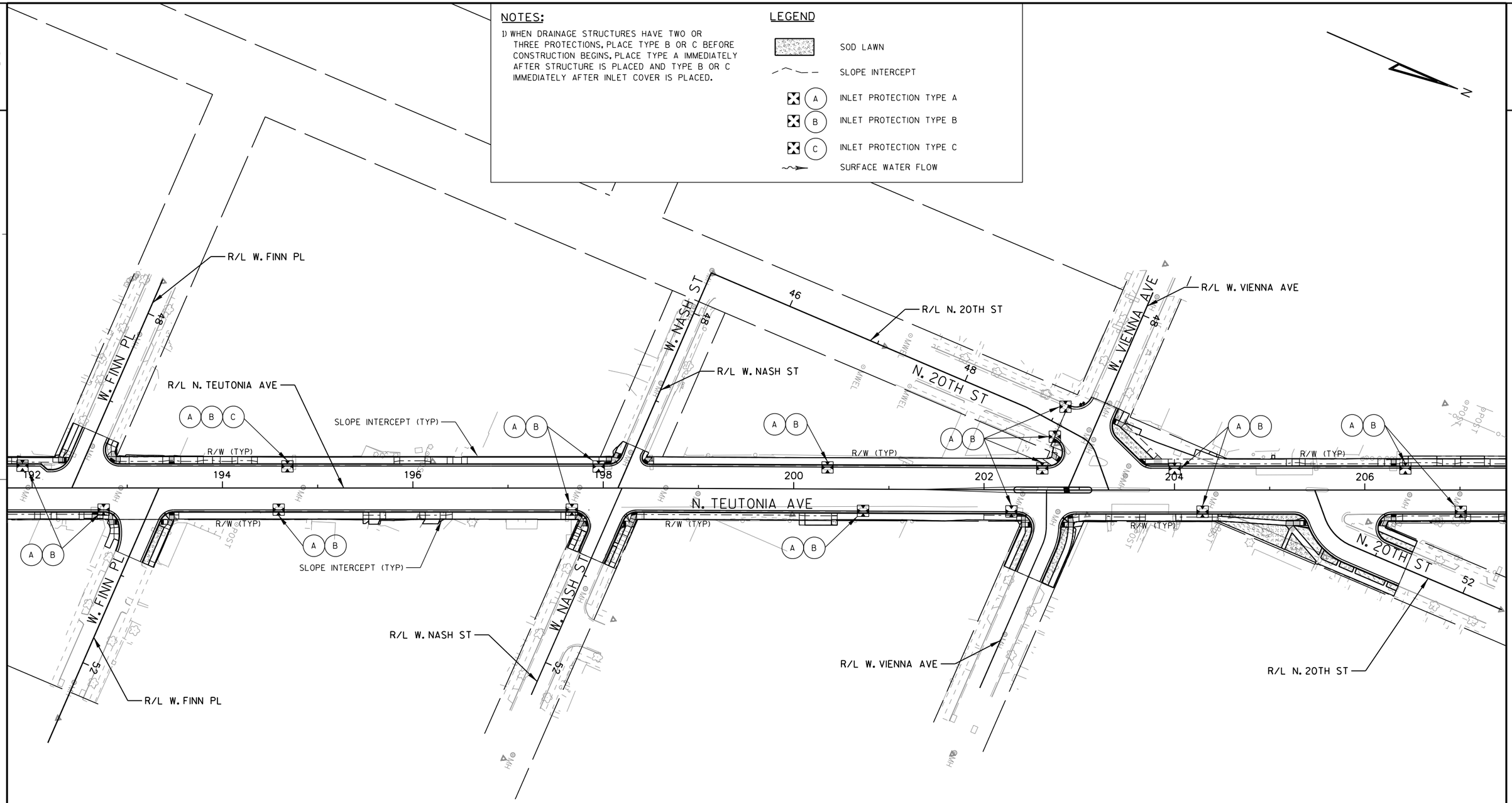
WISDOT/CADDS SHEET 42

NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO OR THREE PROTECTIONS, PLACE TYPE B OR C BEFORE CONSTRUCTION BEGINS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE B OR C IMMEDIATELY AFTER INLET COVER IS PLACED.

LEGEND

- SOD LAWN
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- SURFACE WATER FLOW



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SHEET 93	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022004_EC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

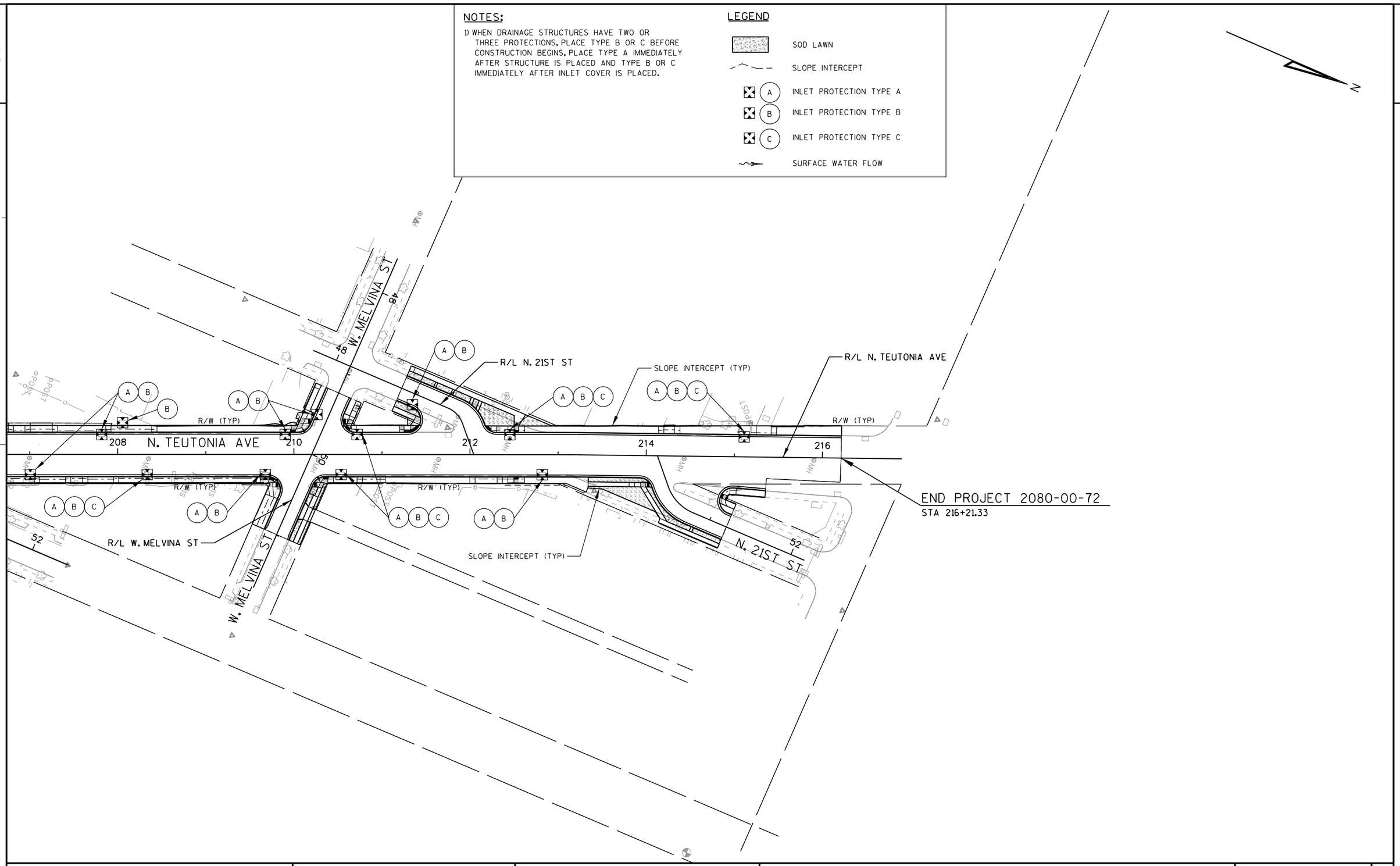
WISDOT/CADDS SHEET 42

NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO OR THREE PROTECTIONS, PLACE TYPE B OR C BEFORE CONSTRUCTION BEGINS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE B OR C IMMEDIATELY AFTER INLET COVER IS PLACED.

LEGEND

- SOD LAWN
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- SURFACE WATER FLOW



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SHEET 94	E

2

GENERAL DRAINAGE NOTES

LOCATION OF STRUCTURES IN CURB AND GUTTER REFER TO CURB AND GUTTER FLOW LINE. LOCATION OF STRUCTURES NOT IN CURB AND GUTTER SECTION REFER TO CENTER OF STRUCTURE OR AS NOTED ON PLAN.

RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET OR AT CENTER OF MANHOLE. SEE STRUCTURE LOCATION DETAIL.

ADJUSTMENT RINGS MAY BE USED TO A COMBINED MAXIMUM THICKNESS OF 6-INCHES.

PLAN LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND IS USED FOR ESTIMATING. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE AND IS USED TO COMPUTE PIPE SLOPE.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES AND PIPES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

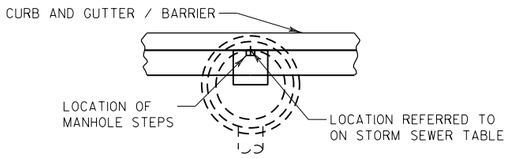
UTILITY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. LOCATIONS SHOWN ARE TAKEN FROM EXISTING RECORDS AND BEST INFORMATION AVAILABLE FROM EXISTING PLANS. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION OF UTILITIES AND STRUCTURES SHOWN. VERIFY ALL LOCATIONS IN THE FIELD.

COORDINATE WITH DIGGERS HOTLINE TO FIELD LOCATE UTILITIES. IF SHEETING IS USED, SHEETING SHALL NOT GO THROUGH UTILITIES. ANY UTILITIES DAMAGED DUE TO CONTRACTOR ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE UTILITY FACILITY.

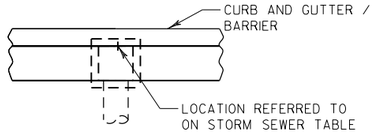
VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS PRIOR TO ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS PRIOR TO INSTALLING THE PROPOSED STORM SEWER.

PROVIDE TEMPORARY POSITIVE DRAINAGE THROUGHOUT THE PROJECT DURING ALL PROJECT STAGES. PROVIDING TEMPORARY POSITIVE DRAINAGE IS INCIDENTAL TO CONSTRUCTION.

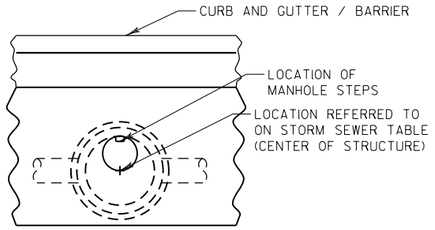
SUPPORTING UTILITIES DURING STORM SEWER CONSTRUCTION IS INCIDENTAL TO STORM SEWER PIPE AND/OR STORM SEWER STRUCTURE.



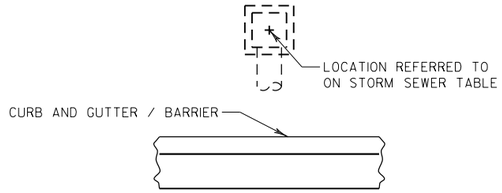
MANHOLE WITH INLET COVER IN CURB AND GUTTER



INLET IN CURB AND GUTTER



MANHOLE NOT IN CURB AND GUTTER



INLET NOT IN CURB AND GUTTER

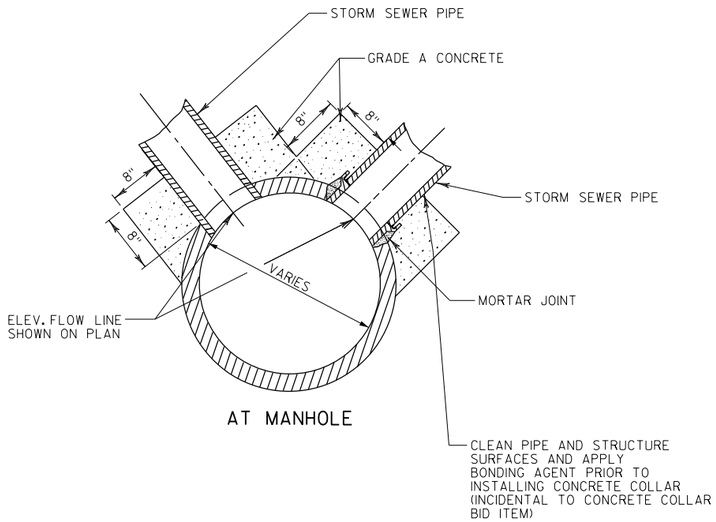
NOTE
1) LOCATION OF STRUCTURE MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
2) LOCATION AND SIZE OF STRUCTURE COVER OPENING DEPENDS ON TYPE OF CASTING. CASTING TYPES ARE SHOWN ON THE STORM SEWER TABLE.

STRUCTURE LOCATION DETAIL

2

STORM SEWER LEGEND

- DRAINAGE STRUCTURE
- PROPOSED MANHOLE
- PROPOSED INLET



AT MANHOLE

NOTE
CONCRETE COLLAR TO BE PAID AS A BID ITEM WHEN CONNECTING AN EXISTING PIPE TO A NEW STRUCTURE.

CONCRETE COLLAR IS INCIDENTAL TO BID ITEM "PIPE CONNECTION TO EXISTING STRUCTURE" WHEN CONNECTING A NEW PIPE TO AN EXISTING STRUCTURE.

CONCRETE COLLAR DETAIL

FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS

2

2

N

BEGIN CONSTRUCTION
STA 48+24.47

E85

IN64

R/L W. CHAMBERS ST

IN65

E86

IN0

SLOPE INTERCEPT (TYP)

IN4

CAUTION

CAUTION

R/L N. TEUTONIA AVE

W. CHAMBERS ST

48

49

150

151

152

153

154

155

N. TEUTONIA AVE

E0

E2

IN1

CAUTION: ACTIVE WINDOW WELL
WORK BY OTHERS SEE PROPOSAL
ARTICLE "PROSECUTION AND PROGRESS"
FOR MORE INFORMATION

R/L W. CHAMBERS ST

CAUTION

BEGIN PROJECT 2080-00-72
STA 149+76.53

CAUTION

SLOPE INTERCEPT (TYP)

W. GROELING AVE

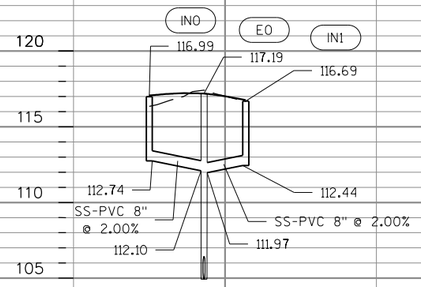
W. CHAMBERS ST

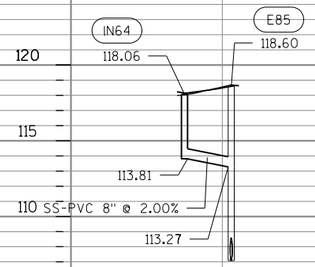
51

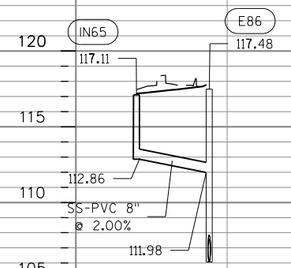
END CONSTRUCTION
STA 51+11.00

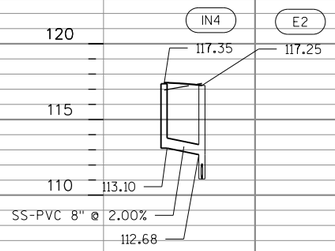
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 96	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022501_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40


IN0
E0
IN1
120
115
110
105
100
116.99
117.19
116.69
112.74
112.44
SS-PVC 8"
@ 2.00%
SS-PVC 8" @ 2.00%
112.10
111.97


IN64
E85
120
115
110
105
100
118.06
118.60
113.81
SS-PVC 8" @ 2.00%
113.27


IN65
E86
120
115
110
105
100
117.11
117.48
112.86
SS-PVC 8"
@ 2.00%
111.98


IN4
E2
120
115
110
117.35
117.25
113.10
SS-PVC 8" @ 2.00%
112.68

NOTE:
1) SEE CONSTRUCTION DETIALS - CURB RAMPS FOR ADDITIONAL CURB RAMP INFORMATION.

N

R/L N. TEUTONIA AVE

SLOPE INTERCEPT (TYP)

CONNECT TO RISER PIPE

CAUTION

CONNECT TO EXISTING PIPE

SLOPE INTERCEPT (TYP)

R/L W. COLUMBIA ST

CAUTION

END CONSTRUCTION
STA 50+79.80

N. TEUTONIA AVE

CONNECT TO EXISTING PIPE

CONNECT TO EXISTING PIPE

CAUTION

CONNECT TO EXISTING PIPE

CAUTION

CONNECT TO EXISTING PIPE

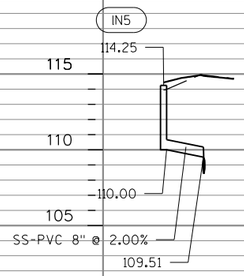
R/L W. BURLEIGH ST

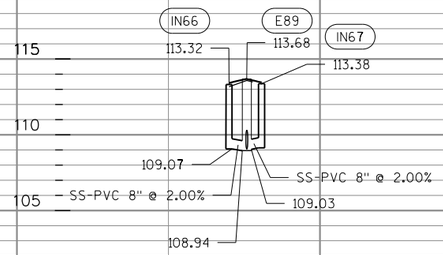
END CONSTRUCTION
STA 51+86.55

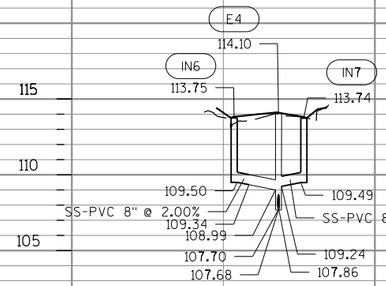
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 98	E

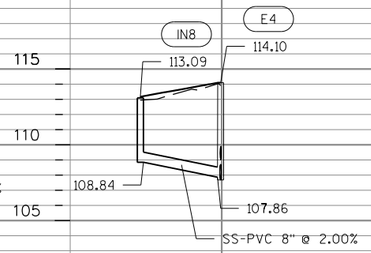
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022502_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

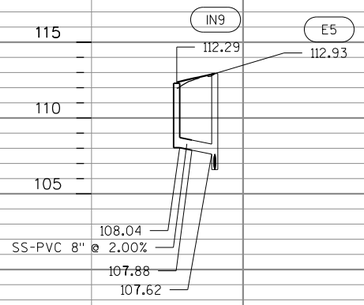
WISDOT/CADDS SHEET 42

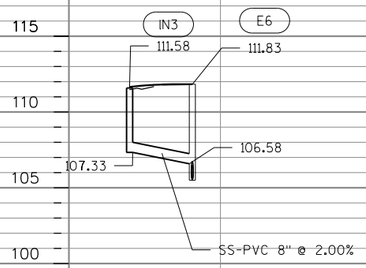


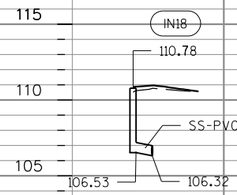


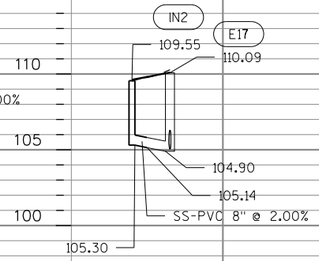


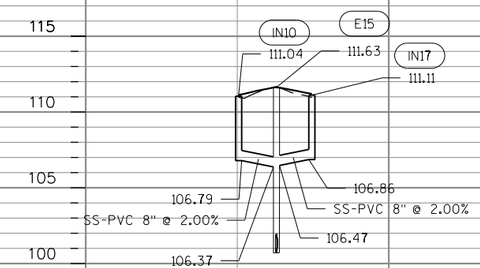








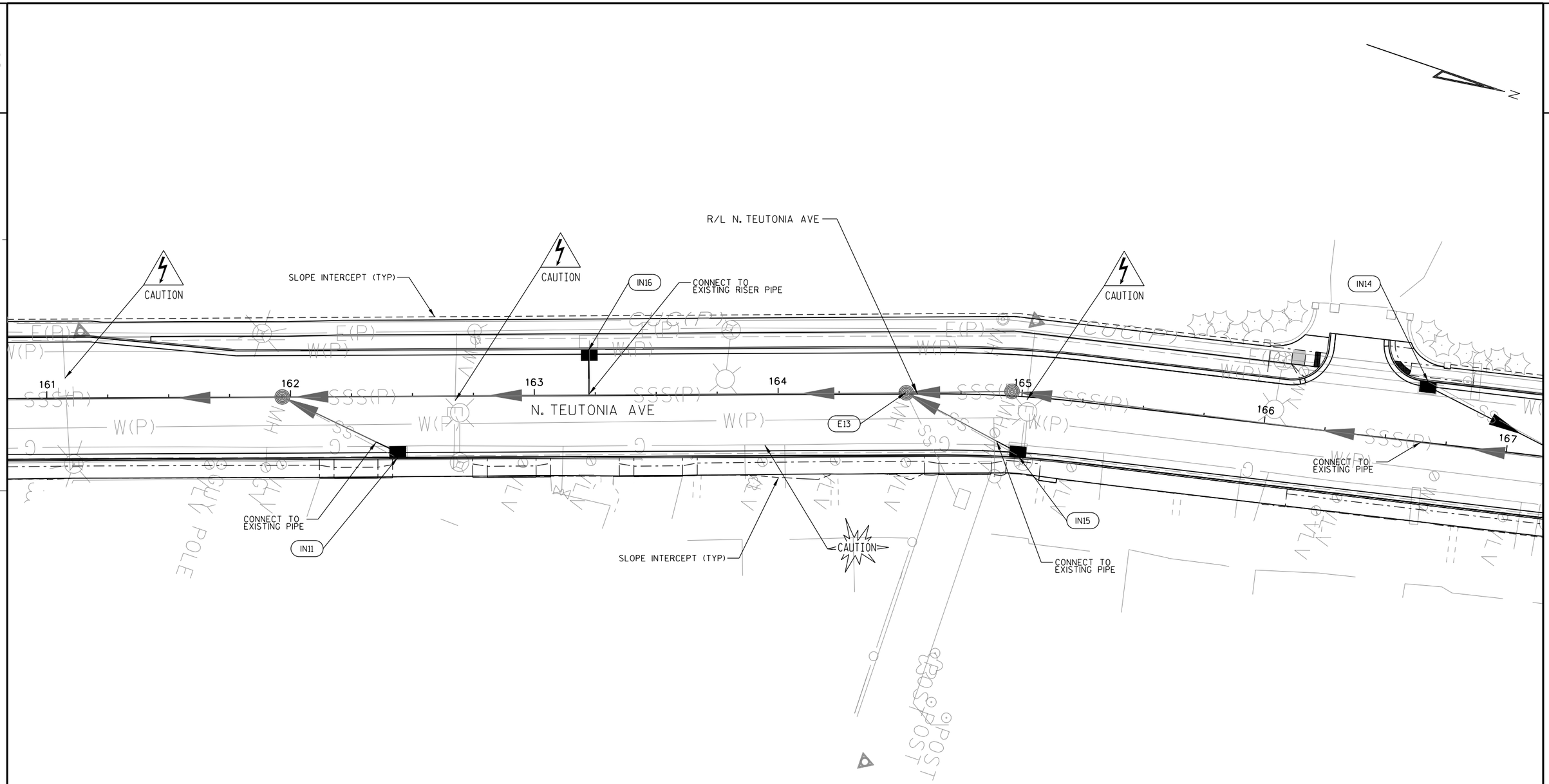




PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN - PROFILES	SHEET 99	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022502A_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

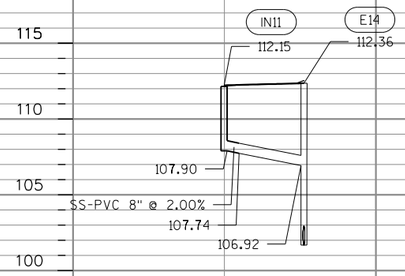
2

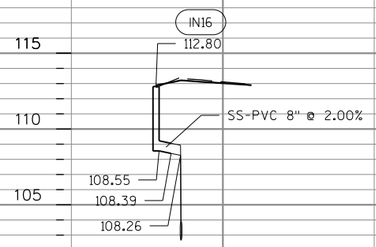


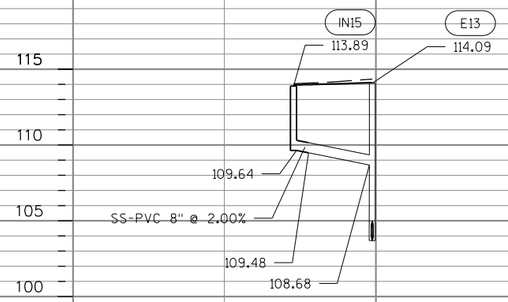
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 100	E

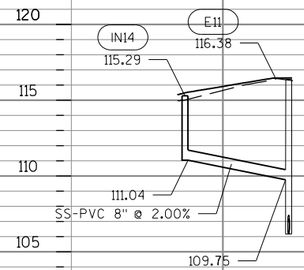
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022503_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42


IN11
112.15
E14
112.36
115
110
105
100
107.90
SS-PVC 8" @ 2.00%
107.74
106.92


IN16
112.80
115
110
105
100
SS-PVC 8" @ 2.00%
108.55
108.39
108.26


IN15
113.89
E13
114.09
115
110
105
100
109.64
SS-PVC 8" @ 2.00%
109.48
108.68


IN14
115.29
E11
116.38
120
115
110
105
100
111.04
SS-PVC 8" @ 2.00%
109.75

2

2

IN14

CAUTION

E10

CONNECT TO EXISTING PIPE

R/L N. TEUTONIA AVE

IN12

SLOPE INTERCEPT (TYP)

CAUTION

CAUTION

IN23

166

167

168

169

170

171

172

N. TEUTONIA AVE

CONNECT TO EXISTING PIPE

CONNECT TO EXISTING PIPE

E9

E24

IN22

IN13

CAUTION

CAUTION

SLOPE INTERCEPT (TYP)

W. RING ST

51

52

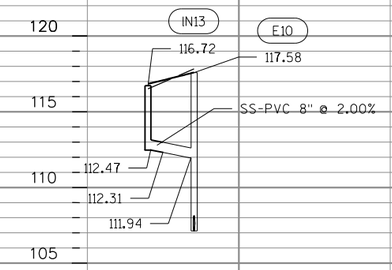
R/L W. RING ST

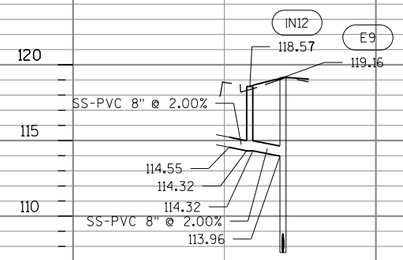
END CONSTRUCTION
STA 50+48.52

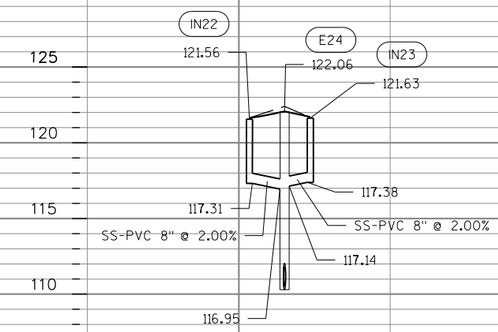
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 102	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022504_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

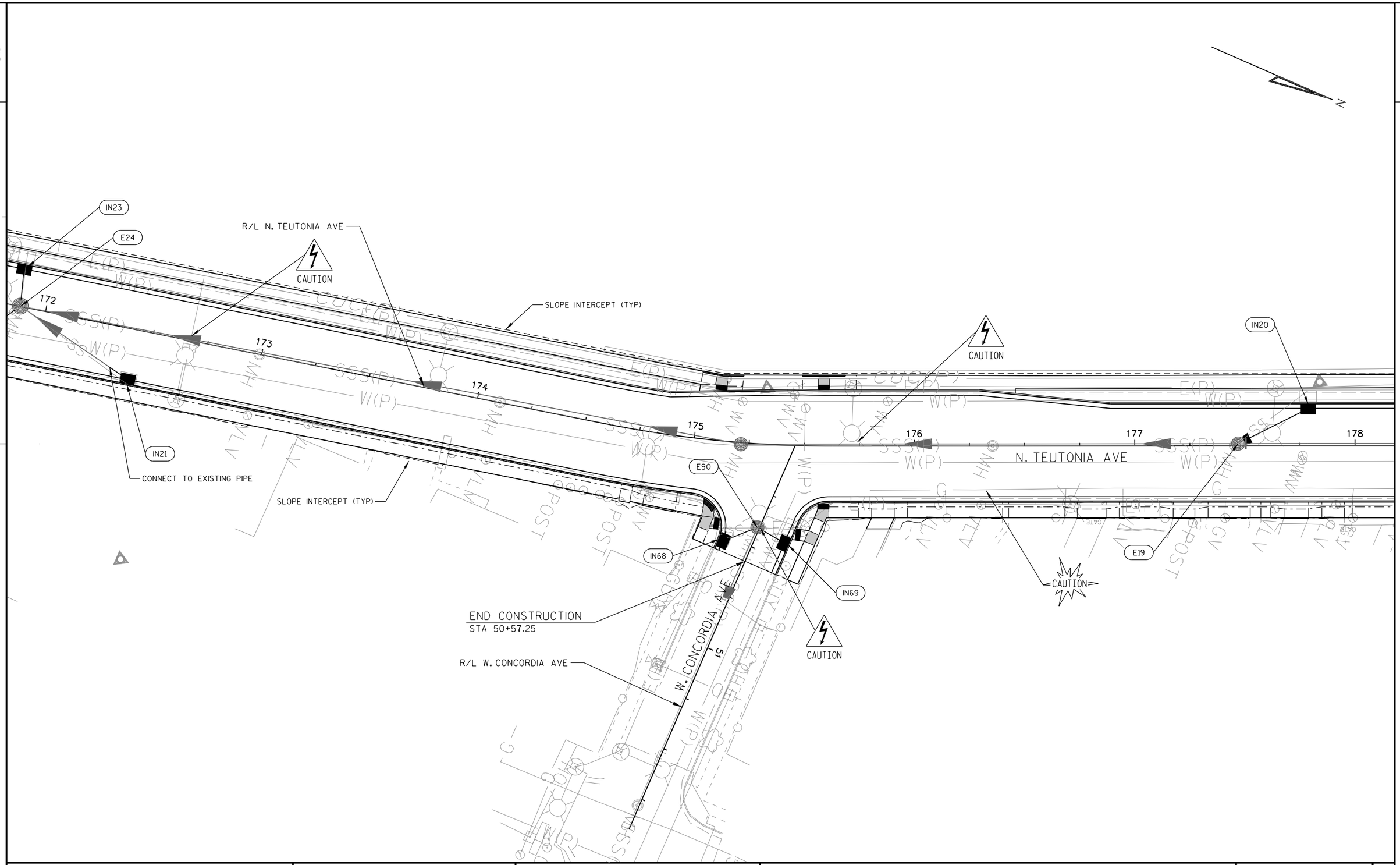






PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN - PROFILES	SHEET 103	E

2



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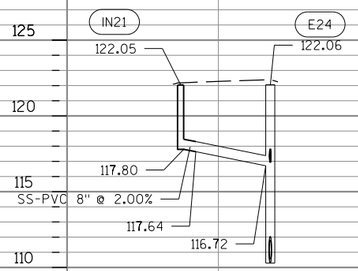
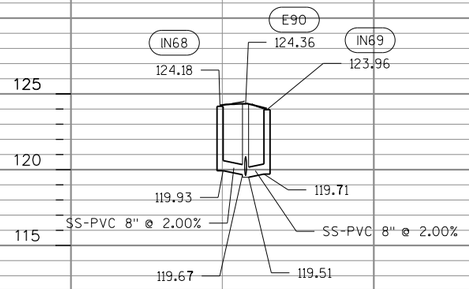
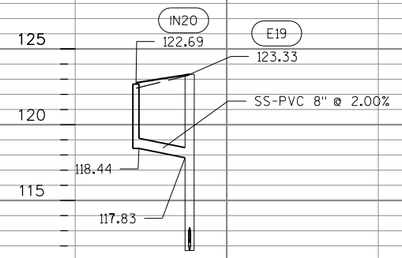
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 104	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022505_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42


IN21
122.05
E24
122.06
125
120
115
110
105
117.80
SS-PVC 8" @ 2.00%
117.64
116.72


IN68
124.18
E90
124.36
IN69
123.96
125
120
115
119.93
SS-PVC 8" @ 2.00%
119.71
SS-PVC 8" @ 2.00%
119.67
119.51


IN20
122.69
E19
123.33
125
120
115
110
SS-PVC 8" @ 2.00%
118.44
117.83

2

2

N

IN20

CAUTION

SLOPE INTERCEPT (TYP)

E100

IN26

CONNECT TO EXISTING PIPE

R/L N. TEUTONIA AVE

CAUTION

IN28

CONNECT TO EXISTING PIPE

E18

178

179

180

181

182

183

184

IN19

E27

N. TEUTONIA AVE

E30

CONNECT TO EXISTING PIPE

CONNECT TO EXISTING PIPE

IN25

SLOPE INTERCEPT (TYP)

IN24

CAUTION

CAUTION

IN27

CONNECT TO EXISTING PIPE

CAUTION

CONNECT TO EXISTING PIPE

R/L N. 18TH ST

N. 18TH ST

52

CAUTION

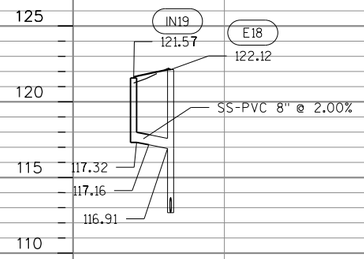
END CONSTRUCTION

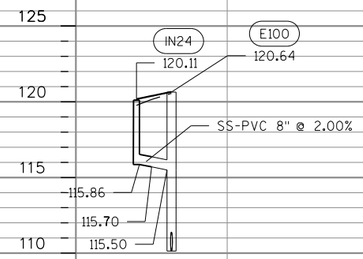
STA 51+35.27

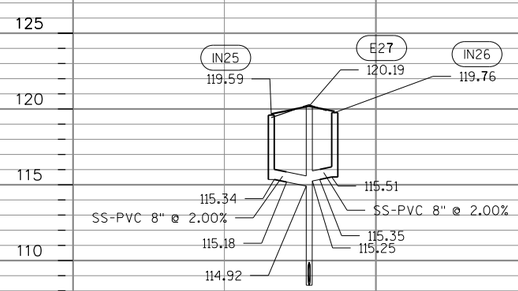
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 106	E

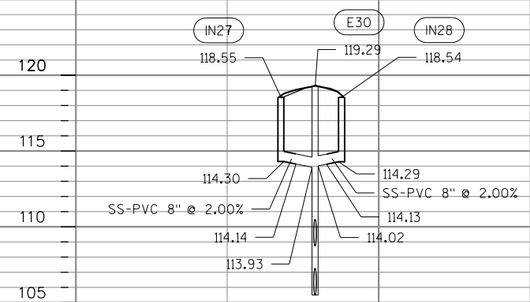
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022506_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42


125
120
115
110
IN19
121.57
E18
122.12
SS-PVC 8" @ 2.00%
117.32
117.16
116.91


125
120
115
110
105
IN24
120.11
E100
120.64
SS-PVC 8" @ 2.00%
115.86
115.70
115.50


125
120
115
110
105
IN25
119.59
E27
120.19
IN26
119.76
115.34
SS-PVC 8" @ 2.00%
115.18
114.92
115.51
SS-PVC 8" @ 2.00%
115.35
115.25


120
115
110
105
100
IN27
118.55
E30
119.29
IN28
118.54
114.30
SS-PVC 8" @ 2.00%
114.14
113.93
114.29
SS-PVC 8" @ 2.00%
114.13
114.02

2

2

R/L N. TEUTONIA AVE

CAUTION

SLOPE INTERCEPT (TYP)

E34

IN30

CAUTION

R/L W. KEEFE AVE

IN33

BEGIN CONSTRUCTION
STA 49+39.62

E37

IN36

E101

E31

E35

184

185

186

187

188

189

190

N. TEUTONIA AVE

CONNECT TO EXISTING PIPE

IN29

IN31

IN32

IN34

IN35

SLOPE INTERCEPT (TYP)

CAUTION

CAUTION

CAUTION

W. KEEFE AVE

51

CAUTION

END CONSTRUCTION
STA 50+75.93

R/L N. 19TH ST

N. 19TH ST

52

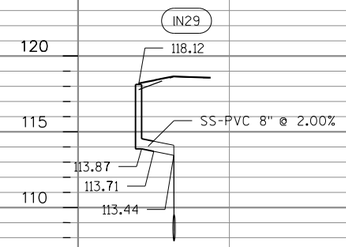
R/L W. KEEFE AVE

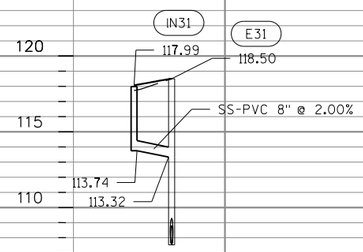
END CONSTRUCTION
STA 50+96.51

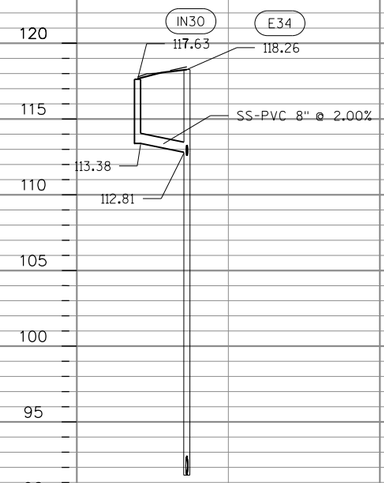
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 108	E

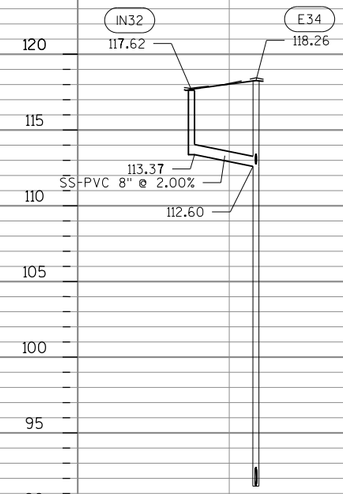
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022507_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

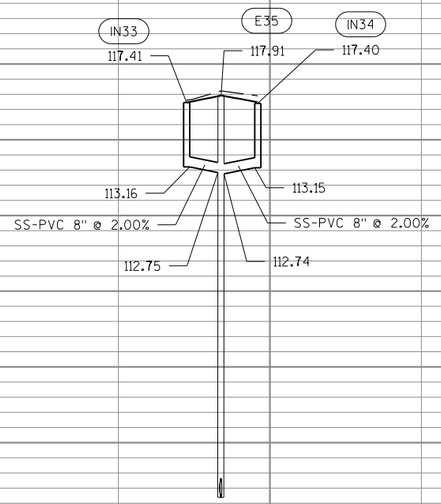
WISDOT/CADDS SHEET 42

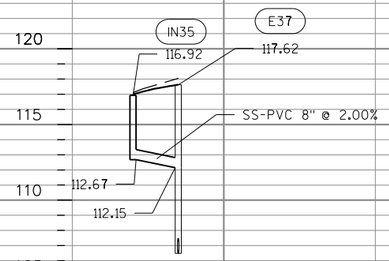

IN29
118.12
SS-PVC 8" @ 2.00%
113.87
113.71
113.44
120
115
110
105

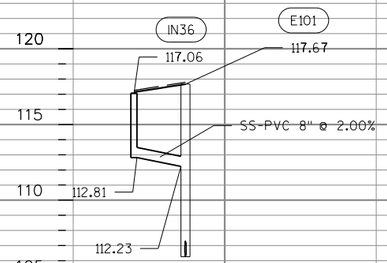

IN31
E31
117.99
118.50
SS-PVC 8" @ 2.00%
113.74
113.32
120
115
110
105


IN30
E34
117.63
118.26
SS-PVC 8" @ 2.00%
113.38
112.81
120
115
110
105
100
95
90


IN32
E34
117.62
118.26
113.37
SS-PVC 8" @ 2.00%
112.60
120
115
110
105
100
95
90


IN33
E35
IN34
117.41
117.91
117.40
113.16
113.15
SS-PVC 8" @ 2.00%
SS-PVC 8" @ 2.00%
112.75
112.74
120
115
110
105
100
95
90


IN35
E37
116.92
117.62
SS-PVC 8" @ 2.00%
112.67
112.15
120
115
110
105


IN36
E101
117.06
117.67
SS-PVC 8" @ 2.00%
112.81
112.23
120
115
110
105

2

R/L W. FINN PL

W. FINN PL

48

49

BEGIN CONSTRUCTION
STA 49+36.84

R/L N. TEUTONIA AVE

CAUTION

IN37

SLOPE INTERCEPT (TYP)

CAUTION

CAUTION

IN40

CONNECT TO EXISTING PIPE

E44

190 191 192 193 194 195 196

SSS(P)

E40

E43

N. TEUTONIA AVE

IN38

IN39

CONNECT TO EXISTING PIPE

CAUTION

SLOPE INTERCEPT (TYP)

R/L W. FINN PL

W. FINN PL

51

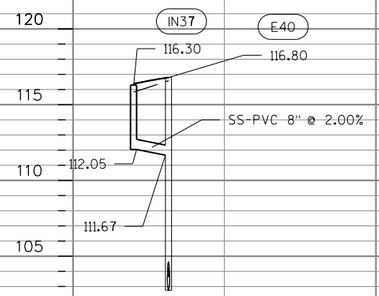
52

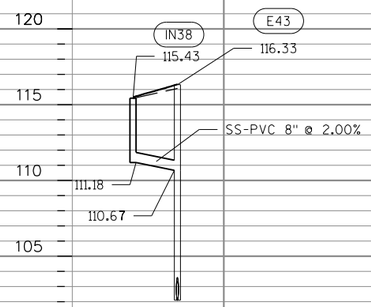
END CONSTRUCTION
STA 50+78.65

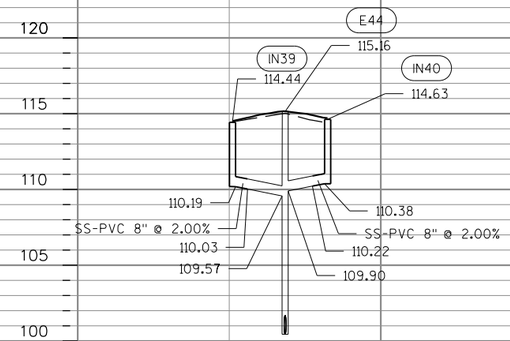
53

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 110	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022508_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40


120
115
110
105
100
IN37
E40
116.30
116.80
SS-PVC 8" @ 2.00%
112.05
111.67


120
115
110
105
100
IN38
E43
115.43
116.33
SS-PVC 8" @ 2.00%
111.18
110.67


120
115
110
105
100
95
E44
115.16
IN39
114.44
IN40
114.63
110.19
SS-PVC 8" @ 2.00%
110.03
109.57
110.38
SS-PVC 8" @ 2.00%
110.22
109.90

2

2

W. NASH ST

N. 20TH ST

N. TEUTONIA AVE

BEGIN CONSTRUCTION
STA 49+52.90

SLOPE INTERCEPT (TYP)

R/L N. TEUTONIA AVE

CONNECT TO EXISTING PIPE

IN42

IN43

E45

E55

IN41

IN44

196 197 198 199 200 201 202

CONNECT TO EXISTING PIPE

CAUTION

CAUTION

CAUTION: ACTIVE WINDOW WELL
WORK BY OTHERS SEE PROPOSAL
ARTICLE "PROSECUTION AND PROGRESS"
FOR MORE INFORMATION

CAUTION

SLOPE INTERCEPT (TYP)

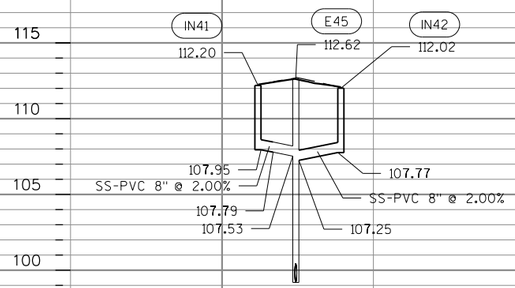
CONNECT TO EXISTING PIPE

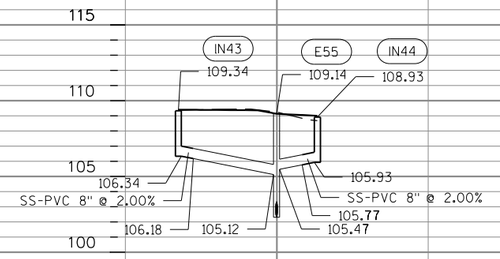
END CONSTRUCTION
STA 50+80.21

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 112	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022509_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42


IN41
E45
IN42
112.20
112.62
112.02
115
110
105
100
95
107.95
SS-PVC 8" @ 2.00%
107.79
107.53
107.77
SS-PVC 8" @ 2.00%
107.25


IN43
E55
IN44
109.34
109.14
108.93
115
110
105
100
106.34
SS-PVC 8" @ 2.00%
106.18
105.12
105.93
SS-PVC 8" @ 2.00%
105.77
105.47

2

BEGIN CONSTRUCTION
STA 40+09.84

BEGIN CONSTRUCTION
STA 49+00.19

W. VIENNA AVE

N. 20TH ST

R/L N. TEUTONIA AVE

N. TEUTONIA AVE

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

CONNECT TO EXISTING PIPE

CONNECT TO EXISTING PIPE

CONNECT TO EXISTING PIPE

CONNECT TO EXISTING PIPE

CAUTION

CAUTION

CAUTION

CAUTION

END CONSTRUCTION
STA 50+94.71

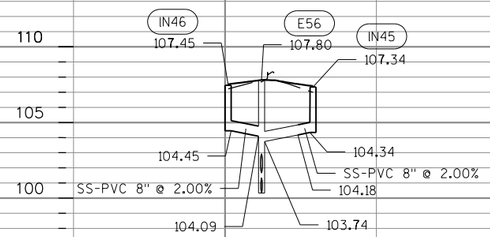
END CONSTRUCTION
STA 51+34.40

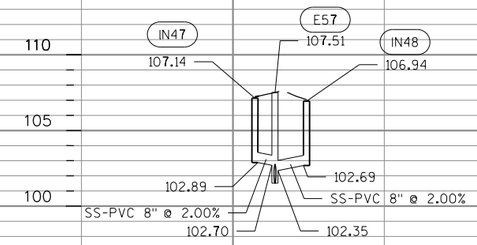
EIN48 EIN49 EIN47 IN45 E57 IN49 IN51 IN53 E56 E70 E71 E72 IN46 IN50 IN52 IN70 E107 1000

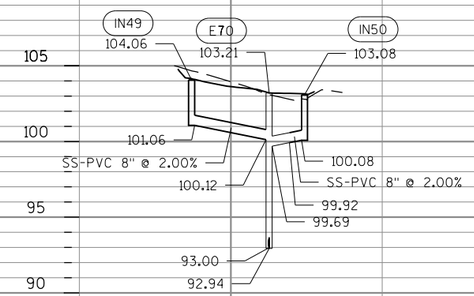
48 49 50 51 52

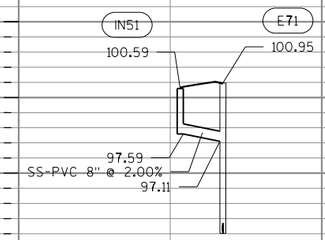
202 203 204 205 206 207 208

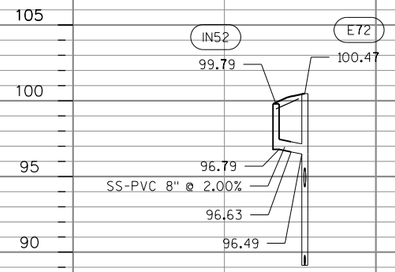
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 114	E

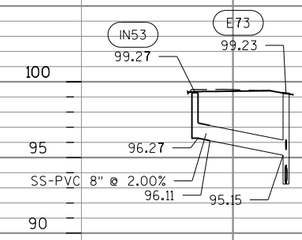


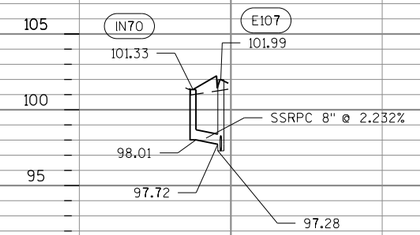


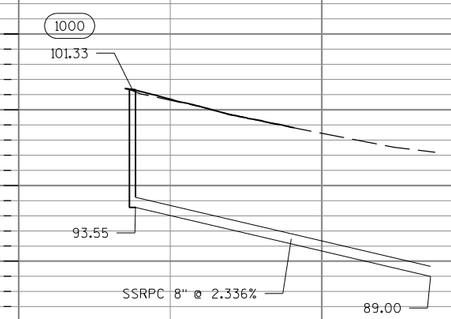












PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN - PROFILES	SHEET 115	E

2

N

W. MELVINA ST

N. 21ST ST

BEGIN CONSTRUCTION
STA 49+23.76

BEGIN CONSTRUCTION
STA 48+80.52

CAUTION

CAUTION

CAUTION

R/L N. TEUTONIA AVE

SLOPE INTERCEPT (TYP)

IN53

CONNECT TO EXISTING PIPE

IN56

IN58

1001

IN59

IN60

E74

E77

IN61

E78

CONNECT TO EXISTING PIPE

208 209 210 211 212 213 214

E73

CONNECT TO EXISTING PIPE

N. TEUTONIA AVE

E79

IN54

SLOPE INTERCEPT (TYP)

IN55

IN57

CONNECT TO EXISTING PIPE

CONNECT TO EXISTING PIPE

IN62

CONNECT TO EXISTING PIPE

CAUTION

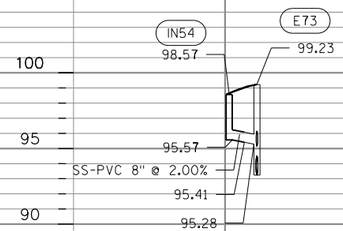
CAUTION

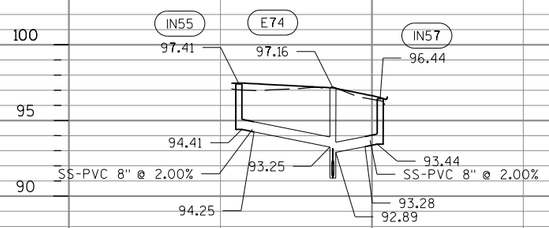
CAUTION

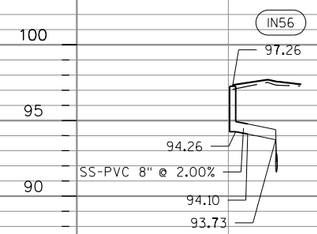
END CONSTRUCTION
STA 50+99.30

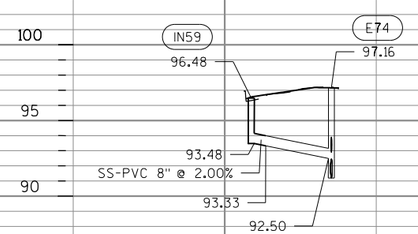
W. MELVINA ST

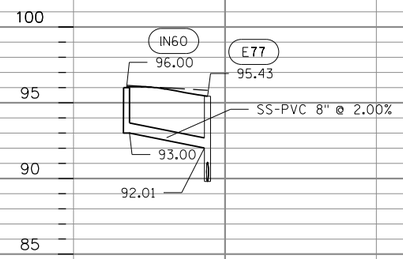
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 116	E

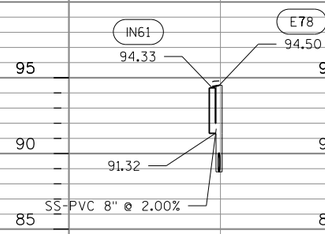

IN54
E73
98.57
99.23
100
95
90
95.57
SS-PVC 8" @ 2.00%
95.41
95.28

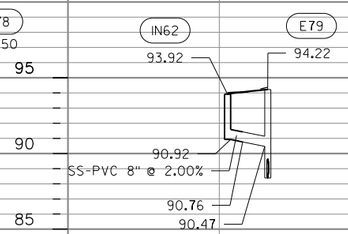

IN55
E74
IN57
97.41
97.16
96.44
100
95
90
94.41
93.25
93.44
SS-PVC 8" @ 2.00%
SS-PVC 8" @ 2.00%
93.28
94.25
92.89

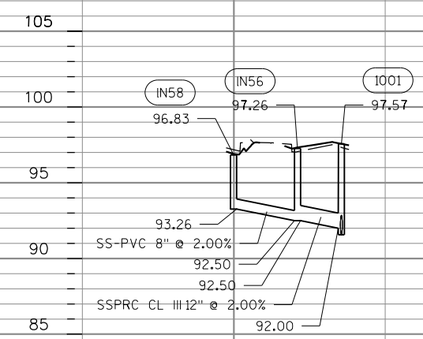

IN56
97.26
100
95
90
85
94.26
SS-PVC 8" @ 2.00%
94.10
93.73

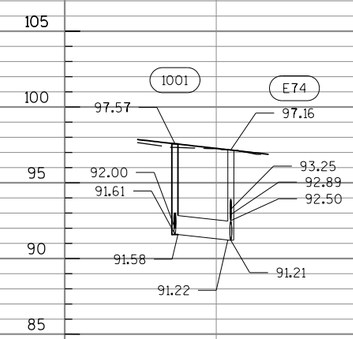

IN59
E74
96.48
97.16
100
95
90
93.48
SS-PVC 8" @ 2.00%
93.33
92.50


IN60
E77
96.00
95.43
100
95
90
85
SS-PVC 8" @ 2.00%
93.00
92.01


IN61
E78
94.33
94.50
100
95
90
85
91.32
SS-PVC 8" @ 2.00%


IN62
E79
93.92
94.22
100
95
90
85
90.92
SS-PVC 8" @ 2.00%
90.76
90.47


IN58
IN56
1001
96.83
97.26
97.57
105
100
95
90
85
93.26
SS-PVC 8" @ 2.00%
92.50
92.50
SSPRC CL III 12" @ 2.00%
92.00


1001
E74
97.57
97.16
105
100
95
90
85
92.00
91.61
93.25
92.89
92.50
91.58
91.22
91.21

2

N

R/L N. TEUTONIA AVE

SLOPE INTERCEPT (TYP)

IN63

CONNECT TO EXISTING PIPE

214

215

216

N. TEUTONIA AVE

END PROJECT 2080-00-72
STA 216+21.33

W. CAPITOL DR

CAUTION

51

N. 21ST ST

52

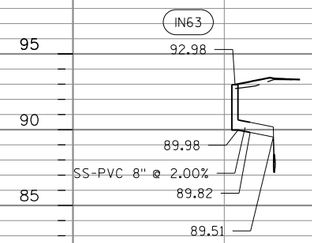
SLOPE INTERCEPT (TYP)

END CONSTRUCTION
STA 51+20.28

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 118	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\022512_SS.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

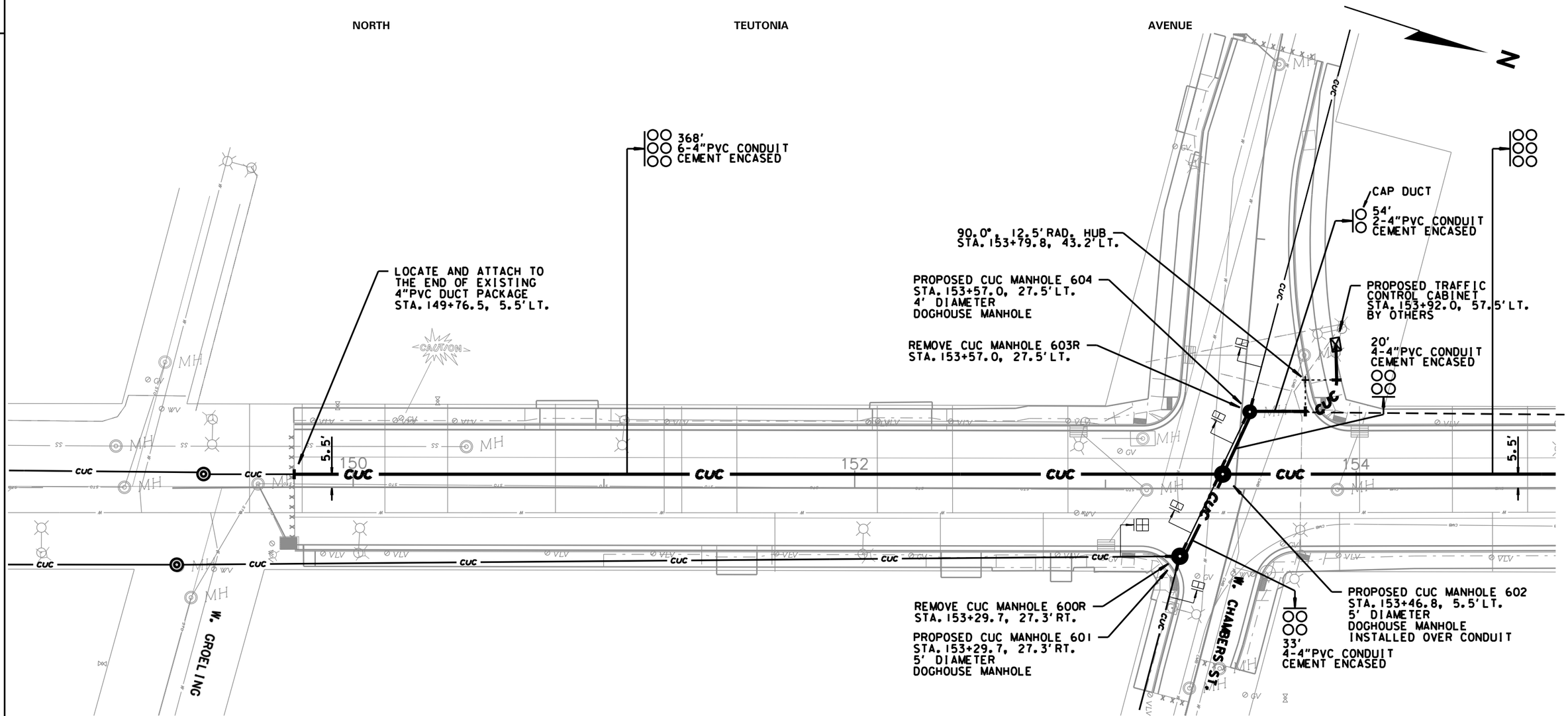
2



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	DRAINAGE PLAN - PROFILES	SHEET 119	E

2

NORTH TEUTONIA AVENUE



NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
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4) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) REMOVE ABANDONED CONDUIT FROM MANHOLE WALL AND INSTALL THE PROPOSED CONDUIT INTO THE MANHOLE AT THE SAME LOCATION.
7) REMOVE ABANDONED CONDUIT AS NEEDED FOR PROPOSED INSTALLATION.
8) ATTACH PROPOSED 4" PVC TO EXISTING 4" CLAY TILE DUCT USING APPROPRIATE ADAPTOR.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 1 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 120	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 149+76.53 - 155.DGN

NORTH TEUTONIA AVENUE

598'
6-4"PVC CONDUIT
CEMENT ENCASED

ABANDON CUC MANHOLE 605A
STA. 156+89.2, 30.4'LT.

℄PT.
STA. 158+00.0, 5.5'LT.

90.0°, 12.5'RAD. HUB
STA. 159+43.5, 7.0'RT.

69'
8-4"PVC CONDUIT
CEMENT ENCASED

ABANDON CUC MANHOLE 606A
STA. 160+12.6, 30.8'LT.

EXISTING POLICE CALL BOX
STA. 160+12.6, 30.8'LT.
TO BE REMOVED BY OTHERS

5.5'

CUC 156 CUC 158 CUC 160 CUC

℄PT.
STA. 155+00.0, 5.5'LT.

W. COLUMBIA ST.

CAP DUCT

45'
2-4"PVC CONDUIT
CEMENT ENCASED

PROPOSED TRAFFIC
CONTROL CABINET
STA. 159+30.0, 34.0'RT.
BY OTHERS

PROPOSED CUC MANHOLE 607
STA. 160+14.8, 5.5'LT.
5' DIAMETER MANHOLE

10.0'

W. BURLEIGH ST.

189'
4-4"PVC CONDUIT
CEMENT ENCASED
TO PAVING LIMITS
CAP DUCTS

N. 16TH. ST.

10.0'

NOTES:

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8) ATTACH PROPOSED 4" PVC TO EXISTING 4" CLAY TILE DUCT USING APPROPRIATE ADAPTOR.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
◻	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 2 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 121 E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 155 -161.DGN

2

NORTH TEUTONIA AVENUE

N

490'
6-4"PVC CONDUIT
CEMENT ENCASED

ABANDON CUC MANHOLE 608A
STA. 164+92.9, 32.2' LT.

5.5'

CUC

162

MH

164

MH

MH

166

CUC

5.5'

PT.
STA. 166+00.0, 5.5' LT.

PROPOSED CUC MANHOLE 609
STA. 165+06.0, 7.1' LT.
4' DIAMETER MANHOLE

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

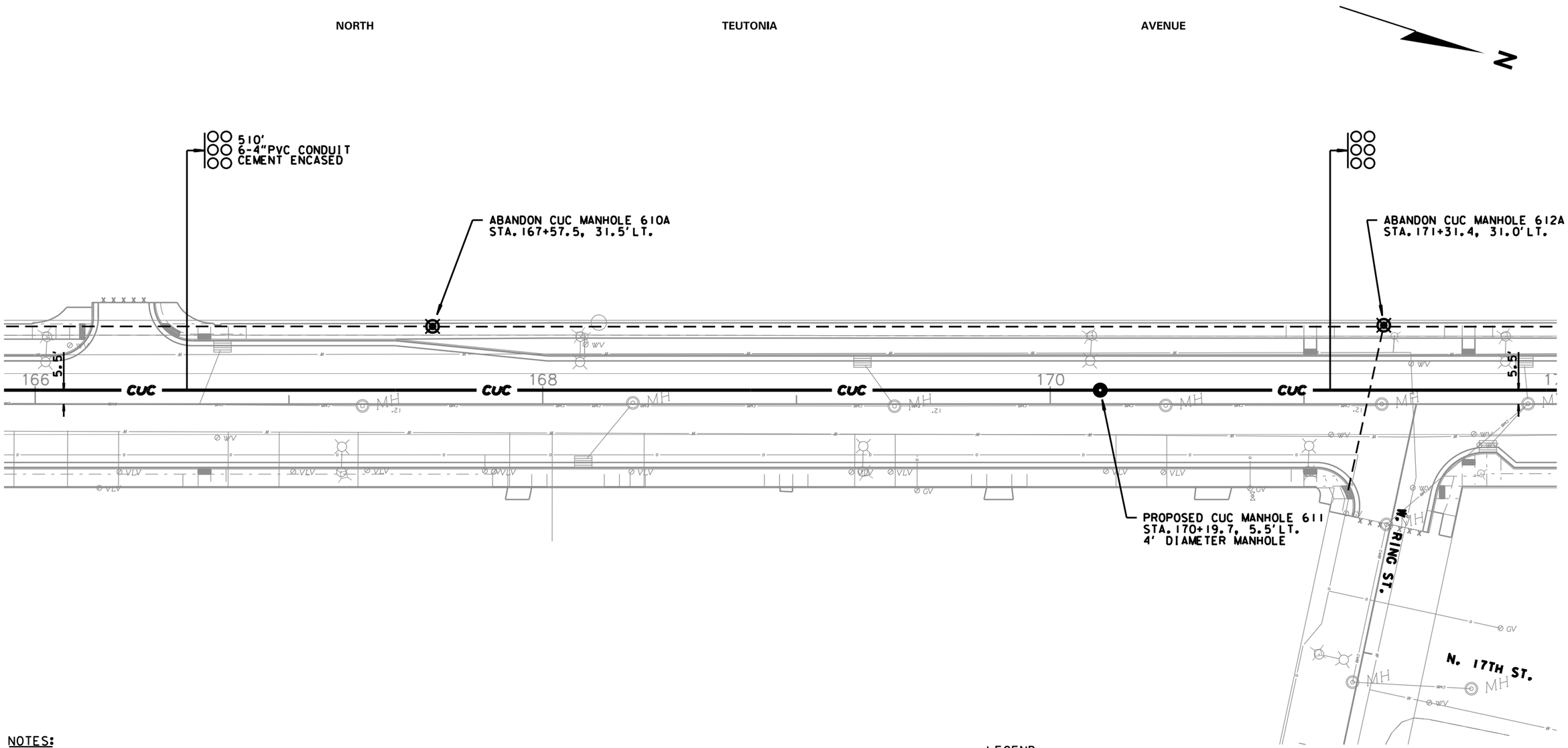
SHEET 3 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 122 E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 161 -167.DGN

2

NORTH TEUTONIA AVENUE



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LEGEND

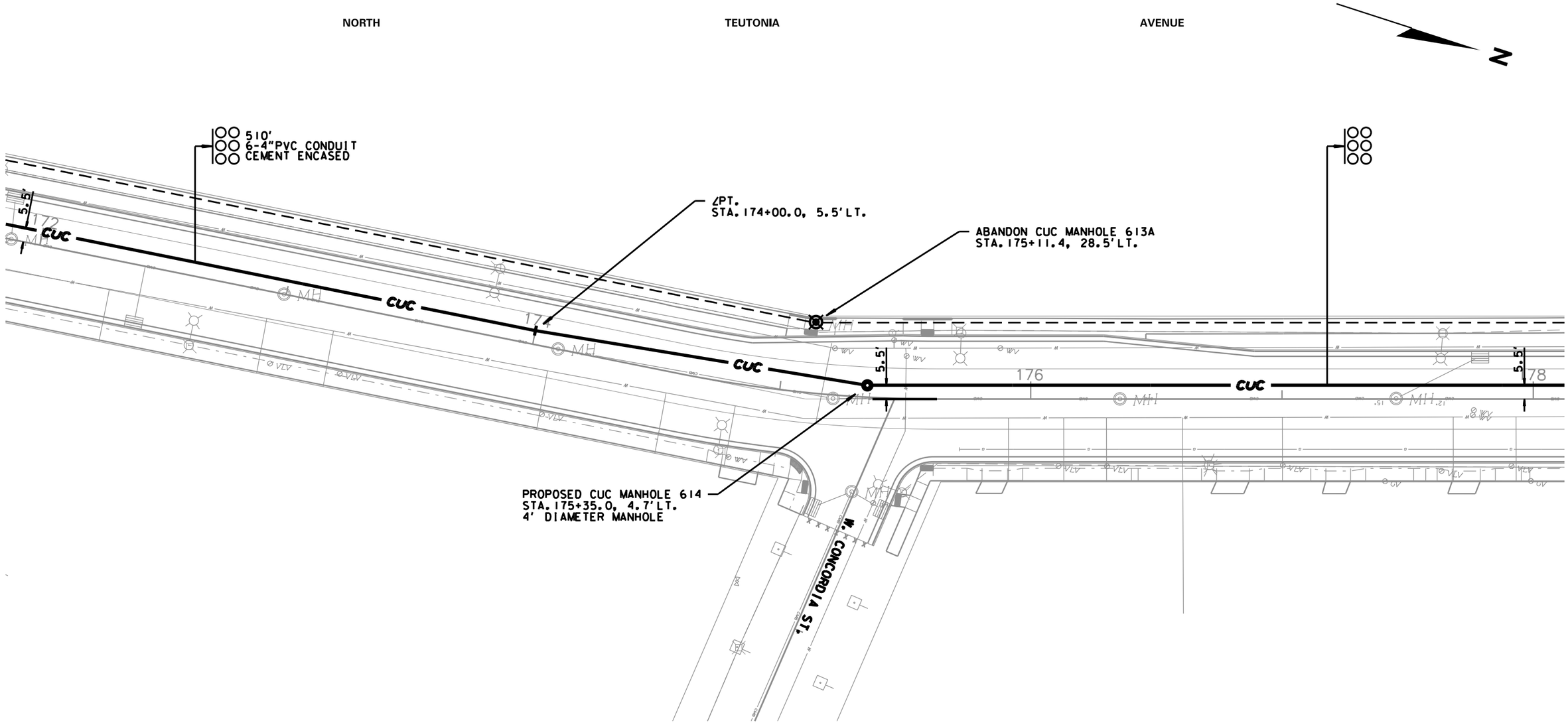
— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 4 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 123	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 166 -172.DGN

2



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8) ATTACH PROPOSED 4" PVC TO EXISTING 4" CLAY TILE DUCT USING APPROPRIATE ADAPTOR.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 5 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 124	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 172 -178.DGN

NORTH TEUTONIA AVENUE

536'
6-4"PVC CONDUIT
CEMENT ENCASED

ABANDON CUC MANHOLE 615A
STA. 180+15.6, 30.8' LT.

PROPOSED POLICE CALL BOX
STA. 180+75.0, 32.0' LT.

26'
2-4"PVC CONDUIT
CEMENT ENCASED

5.5'

178

CUC

180

CUC

182

CUC

184

CUC

5.5'

PROPOSED CUC MANHOLE 616
STA. 180+75.0, 5.5' LT.
4' DIAMETER MANHOLE

EXISTING POLICE CALL BOX
STA. 160+12.6, 34.1' LT.
TO BE RELOCATED BY OTHERS

N. 18TH ST.

52

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 6 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 125 E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 178 -184.DGN

2

NORTH TEUTONIA AVENUE

536'
6-4"PVC CONDUIT
CEMENT ENCASED

11.25°, 12.5' RAD. HUB
STA. 186+74.1, 6.5'LT.

ABANDON CUC MANHOLE 617A
STA. 184+65.6, 30.7'LT.

ABANDON CUC MANHOLE 618A
STA. 186+14.7, 29.6'LT.

188'
6-4"PVC CONDUIT
CEMENT ENCASED

SAW CONCRETE CONDUIT
STA. 188+28.7, 44.2'LT.
SEE NOTE 8

ABANDON CUC MANHOLE 621A
STA. 188+22.2, 30.8'LT.

52'
4-4"PVC CONDUIT
CEMENT ENCASED
ATTACH BOTTOM DUCTS
TO EXISTING CLAY TILES
AND CAP THE TOP DUCTS

N. KEEFE AVE.

N. 19TH. ST.

PROPOSED CUC MANHOLE 619
STA. 186+15.0, 5.5'LT.
5' DIAMETER DOGHOUSE MANHOLE
OVER EXISTING CONDUIT

PROPOSED CUC MANHOLE 620
STA. 188+06.2, 6.0'RT.
5' DIAMETER MANHOLE

90.0°, 12.5' RAD. HUB
STA. 188+13.6, 20.2'RT.

63'
4-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE 622
STA. 188+43.6, 46.9'LT.

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 7 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 126	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 184 -190.DGN

2

NORTH TEUTONIA AVENUE

N

498'
6-4"PVC CONDUIT
CEMENT ENCASED

M. FINN ST.

PROPOSED CUC MANHOLE 624
STA. 193+11.4, 6.0'RT
4' DIAMETER MANHOLE

190 192 194 196

6.0' 6.0'

CUC CUC CUC CUC

17.0'

33'
4-4"PVC CONDUIT
CEMENT ENCASED

ABANDON CUC MANHOLE 625A
STA. 194+17.0, 27.8'RT.

EXISTING CUC MANHOLE 623
STA. 192+97.5, 40.7'RT.

W. FINN ST.

CUC

EXISTING POLICE CALL BOX
STA. 193+40.0, 35.6'RT.
TO BE REMOVED BY OTHERS

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
⊙	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

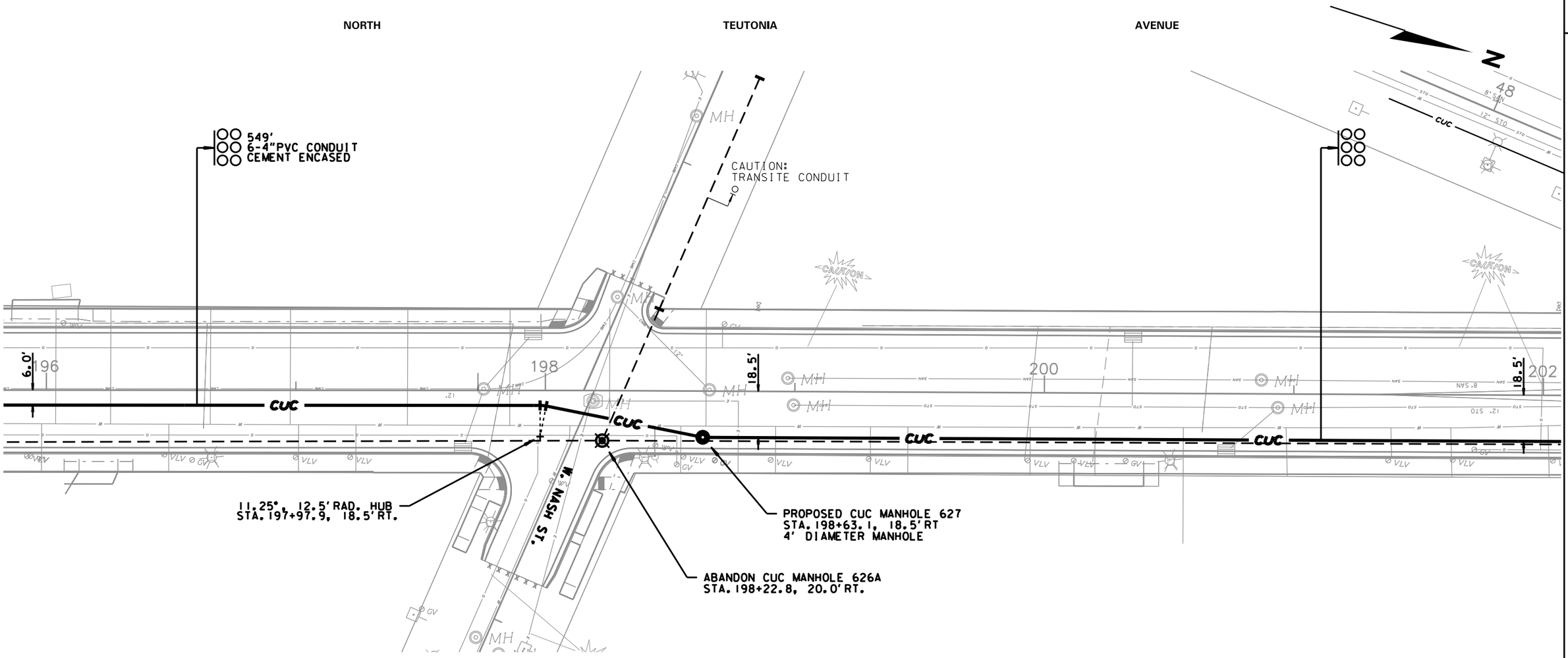
SHEET 8 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 127	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 190 -196.DGN

2

NORTH TEUTONIA AVENUE



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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 9 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 128 E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 196 -202.DGN

2

NORTH TEUTONIA AVENUE

W. VIENNA AVE.

N

451'
6-4"PVC CONDUIT
CEMENT ENCASED

PROPOSED TRAFFIC
CONTROL CABINET
STA.203+10.0, 102.6'LT.
BY OTHERS

62'
2-4"PVC CONDUIT
CEMENT ENCASED
CAP DUCT

N. 20TH ST.

CUC

EXISTING CUC MANHOLE 630
STA.203+25.0, 38.9'LT.

40'
4-4"PVC CONDUIT
CEMENT ENCASED

SEE NOTE 6

EXISTING CUC MANHOLE 631
STA.204+93.5, 19.8'RT.

90.0°, 5.0'RAD, HUB
STA.204+95.3, 27.8'RT.

202 204 206 208

18.5' 19.0' 19.0'

3"FD

SEE NOTE 6

PROPOSED CUC MANHOLE 629
STA.203+16.5, 3.8'RT.
4' DIAMETER MANHOLE

ABANDON CUC MANHOLE 628A
STA.203+01.6, 19.5'RT.

EXISTING POLICE CALL BOX
STA.202+95.3, 33.9'RT.
TO BE REMOVED BY OTHERS

11.25°, 12.5'RAD, HUB
STA.202+41.3, 6.0'RT.

171'
6-4"PVC CONDUIT
CEMENT ENCASED

CAP DUCT
62'
2-4"PVC CONDUIT
CEMENT ENCASED

PROPOSED TRAFFIC
CONTROL CABINET
STA.205+40.0, 52.6'RT.
BY OTHERS

ABANDON CUC MANHOLE 632A
STA.205+54.3, 19.3'RT.

52

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
◻	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 10 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 129	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 202 -208.DGN

2

NORTH TEUTONIA AVENUE

N

571'
6-4"PVC CONDUIT
CEMENT ENCASED

W. MELVINA ST.

208 210 212 214

19.0' 19.0'

CUC CUC CUC CUC

PROPOSED CUC MANHOLE 633
STA. 210+69.0, 19.0' RT.
4' DIAMETER MANHOLE

NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
2) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
3) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
4) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) REMOVE ABANDONED CONDUIT FROM MANHOLE WALL AND INSTALL THE PROPOSED CONDUIT INTO THE MANHOLE AT THE SAME LOCATION.
7) REMOVE ABANDONED CONDUIT AS NEEDED FOR PROPOSED INSTALLATION.
8) ATTACH PROPOSED 4" PVC TO EXISTING 4" CLAY TILE DUCT USING APPROPRIATE ADAPTOR.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 11 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 130	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\STA 208 -214.DGN

2

NORTH TEUTONIA AVENUE

N

571'
6-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE 636
STA.216+75.3, 48.1'LT.

W. CAPITOL AVE.

19.0'

214

216

19.0'

CUC

CUC

CUC

CUC

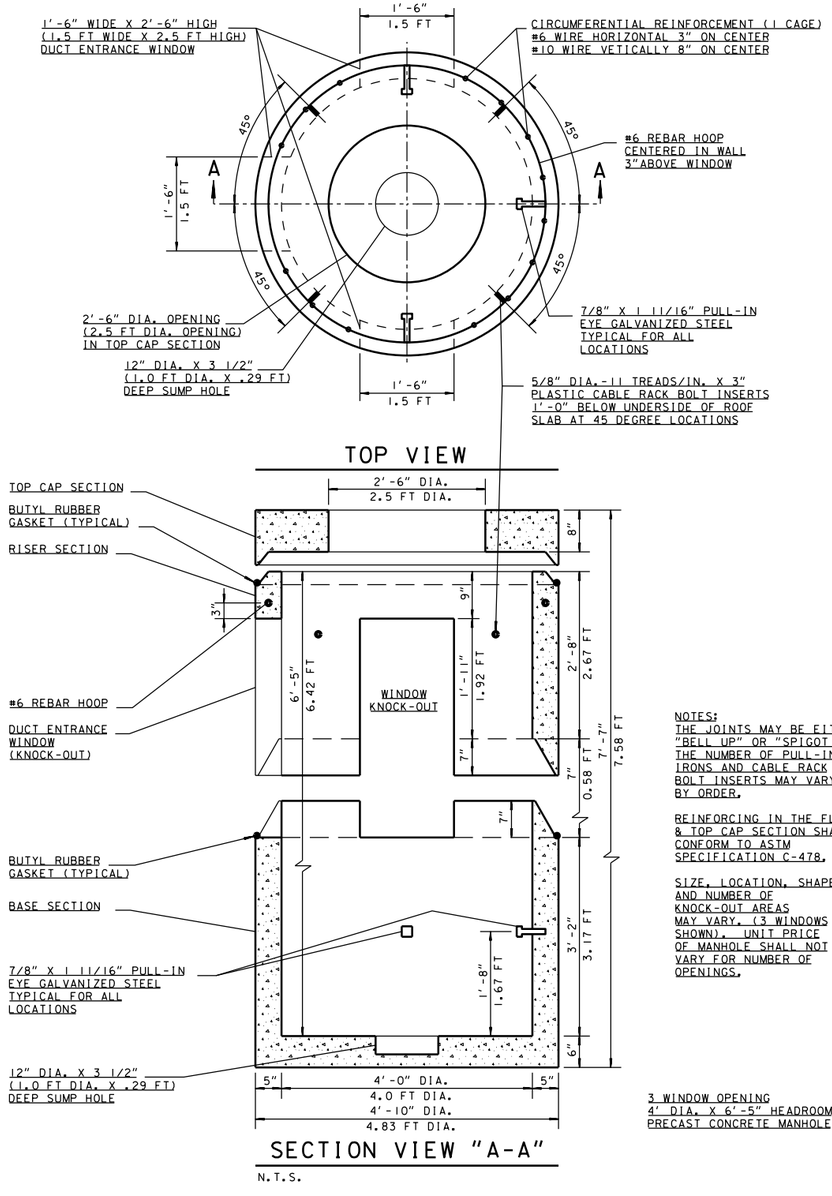
CUC

CUC

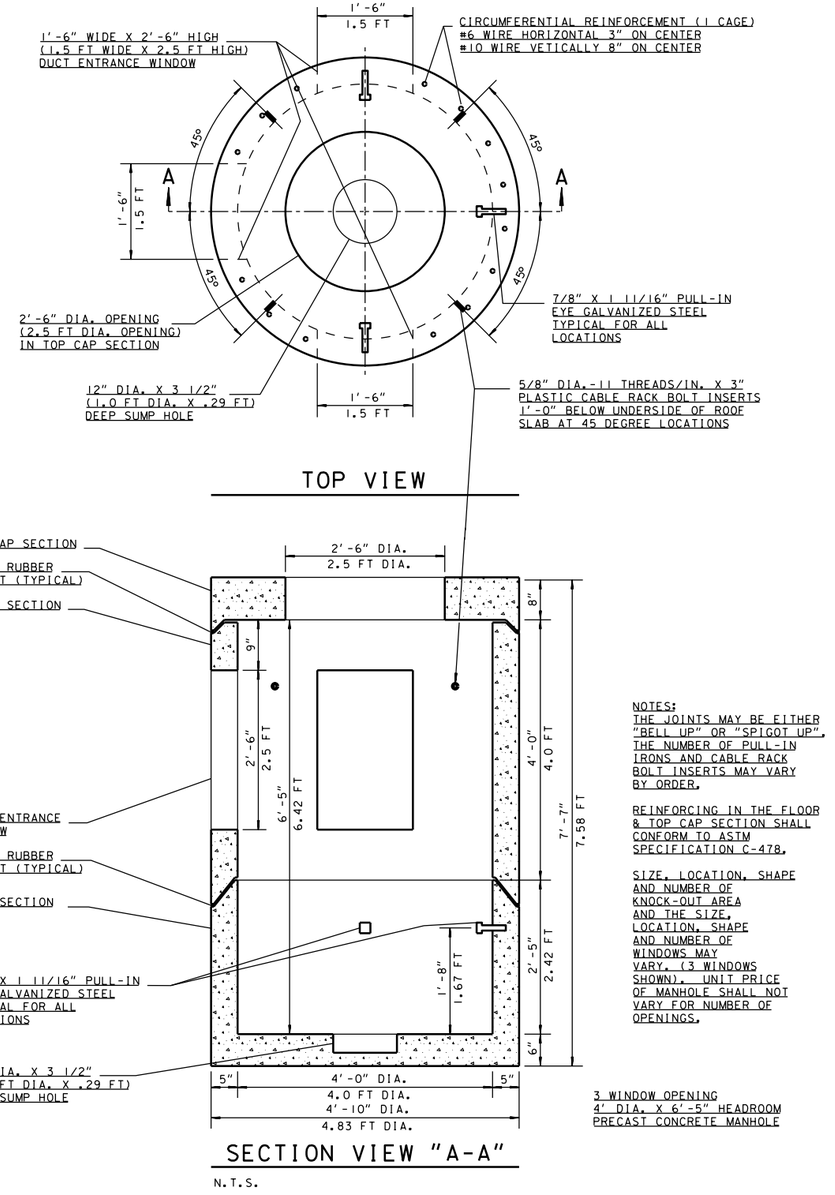
MH

MH

MH



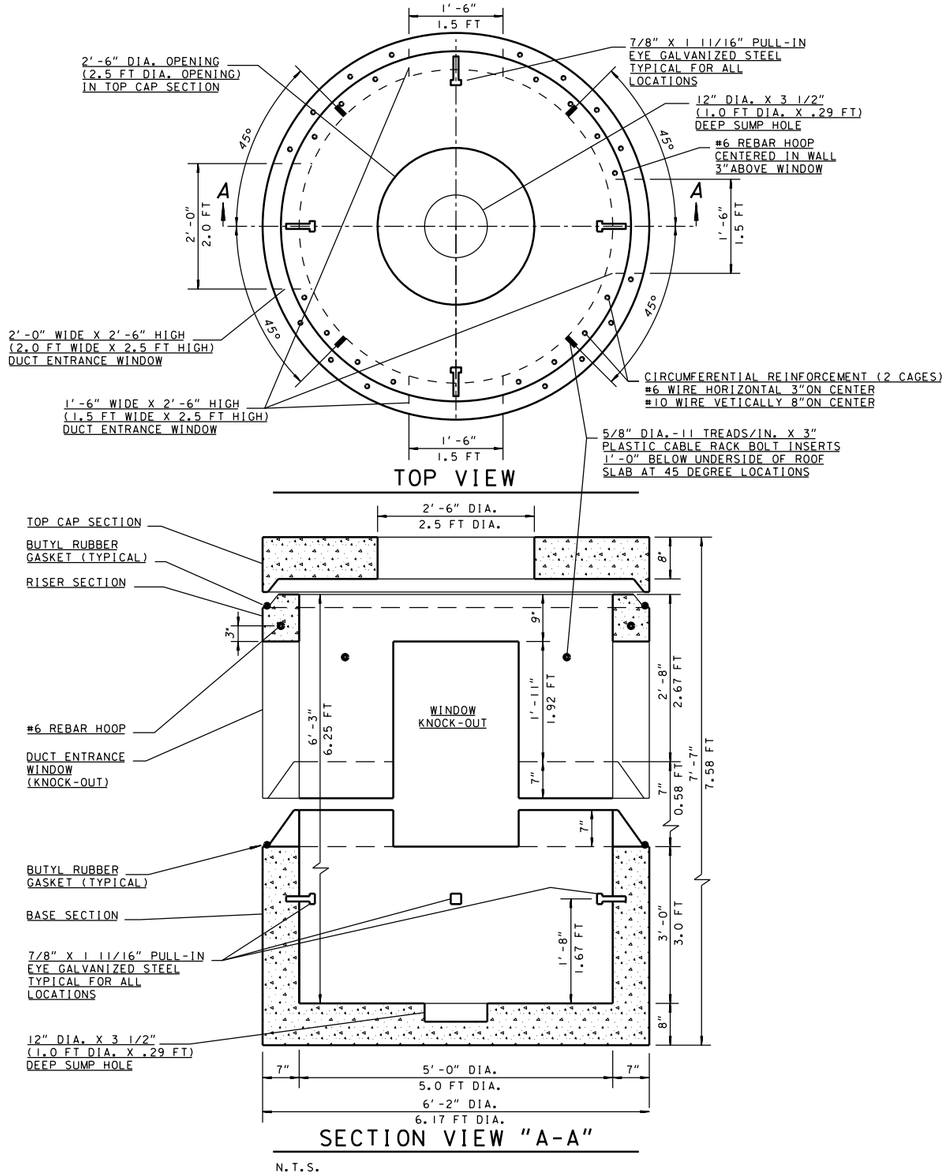
4' DIAMETER "DOGHOUSE" TYPE CUC MANHOLE



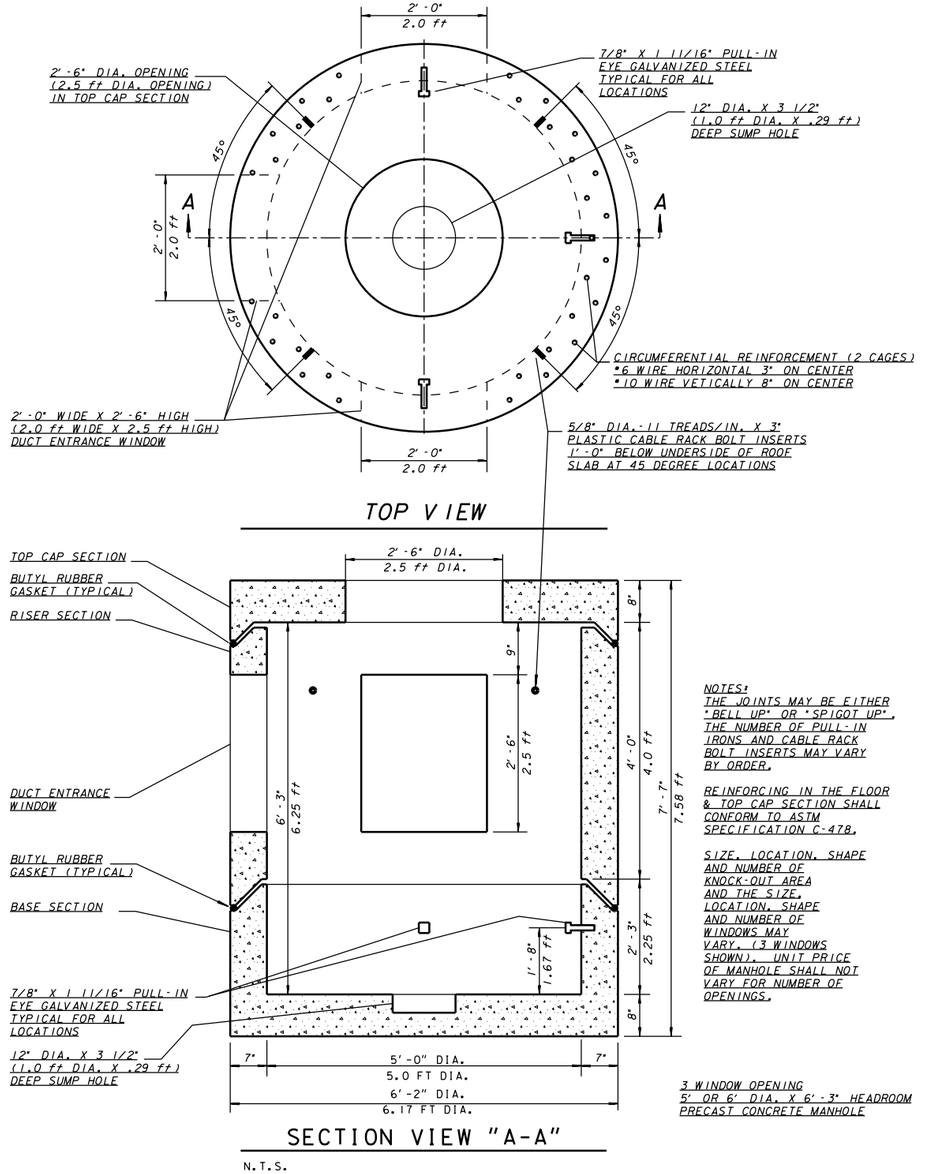
4' DIAMETER STANDARD TYPE CUC MANHOLE

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT DETAILS	NOT TO SCALE	SHEET NO: 132	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\DETAIL A.DGN



5' DIAMETER "DOGHOUSE" TYPE CUC MANHOLE



NOTES:
THE JOINTS MAY BE EITHER "BELL UP" OR "SPIGOT UP", THE NUMBER OF PULL-IN IRONS AND CABLE RACK BOLT INSERTS MAY VARY BY ORDER.

REINFORCING IN THE FLOOR & TOP CAP SECTION SHALL CONFORM TO ASTM SPECIFICATION C-478.

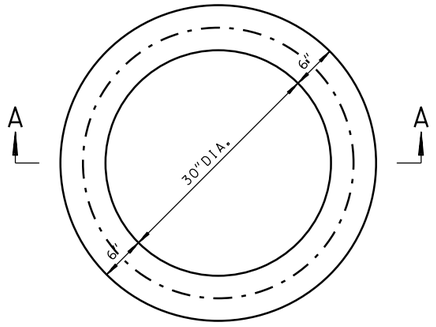
SIZE, LOCATION, SHAPE AND NUMBER OF KNOCK-OUT AREA AND THE SIZE, LOCATION, SHAPE AND NUMBER OF WINDOWS MAY VARY. (3 WINDOWS SHOWN). UNIT PRICE OF MANHOLE SHALL NOT VARY FOR NUMBER OF OPENINGS.

3 WINDOW OPENING
5' OR 6' DIA. X 6'-3" HEADROOM
PRECAST CONCRETE MANHOLE

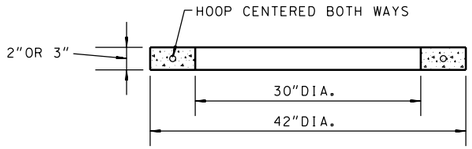
5' DIAMETER STANDARD TYPE CUC MANHOLE

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT DETAILS	NOT TO SCALE	SHEET NO: 133	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\DETAIL B.DGN



PLAN



SECTION A-A

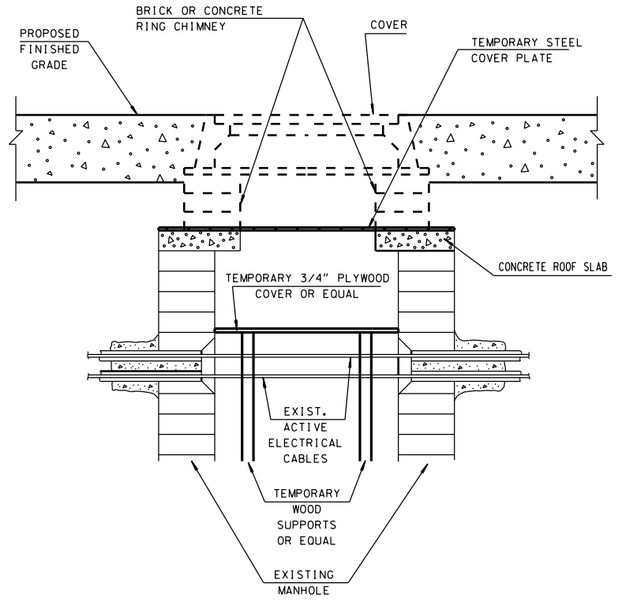
THE ADJUSTING RING SHALL BE 2" OR 3" IN HEIGHT.

THE CIRCUMFERENTIAL STEEL SHALL BE CENTERED WITHIN THE RING.

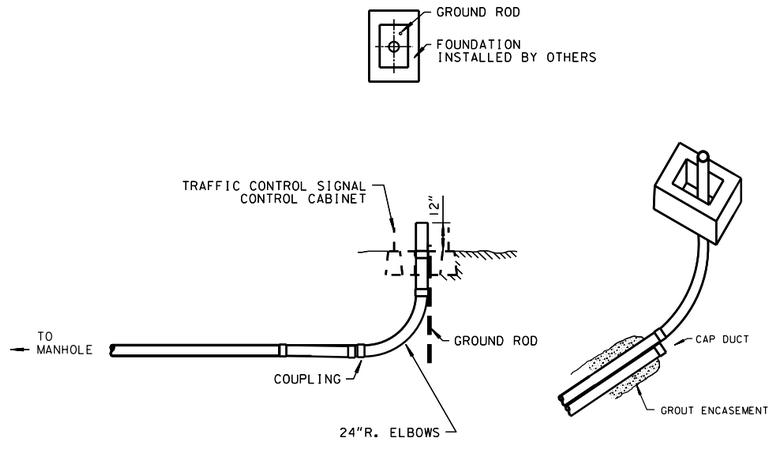
AREA OF CIRCUMFERENTIAL STEEL = 0.07 SQ. INCH PER VERTICAL FOOT WITH A MINIMUM OF .024 SQ. INCH IN ANY ONE RING.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE CORE SHALL BE 4000 P.S.I.

CONCRETE ADJUSTING RING

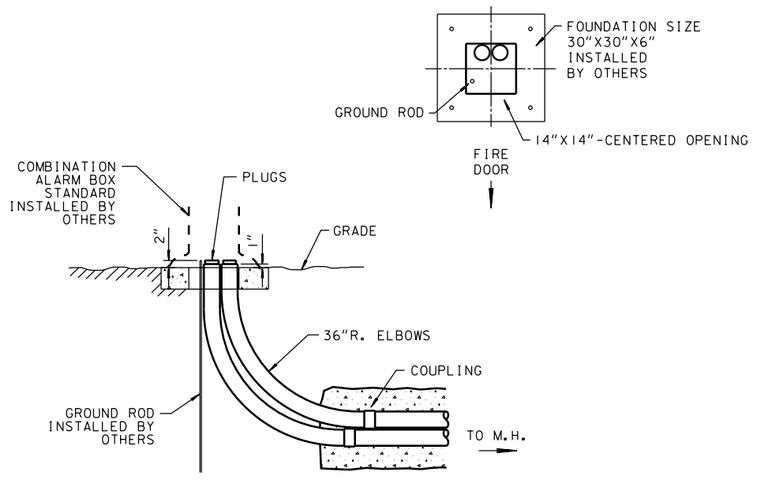


ADJUSTING CUC MANHOLES



TRAFFIC CONTROL CABINET

FOR REFERENCE ONLY



POLICE CALL BOX DETAIL

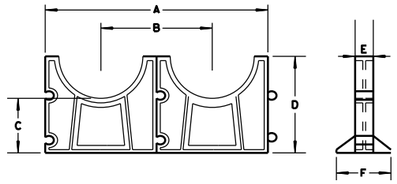
FOR REFERENCE ONLY

SHEET 15 OF 16

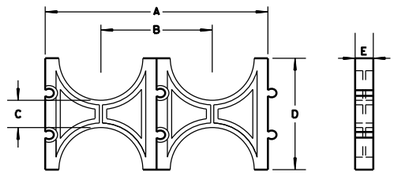
STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT DETAILS	NOT TO SCALE	SHEET NO: 134	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\DETAIL C.DGN

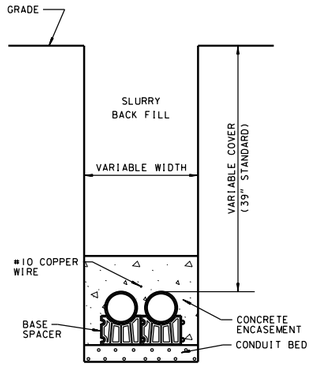
COND.	3"	4"
A	10 1/4"	12 1/4"
B	5 1/8"	6 1/8"
C	3"	3"
D	4 3/4"	6 1/8"
E	1"	1"
F	3"	3"

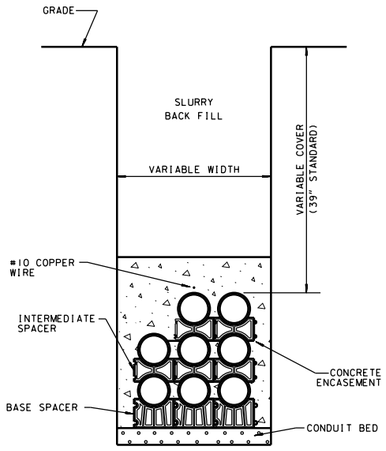


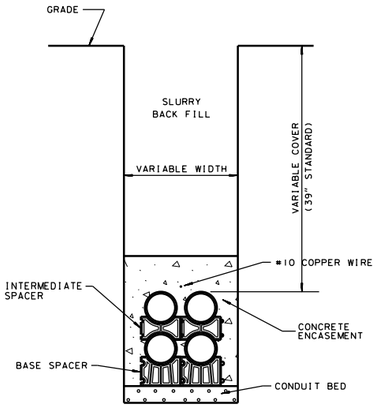
COND.	3"	4"
A	10 1/4"	12 1/4"
B	5 1/8"	6 1/8"
C	1 1/2"	1 1/2"
D	5 1/8"	6 1/8"
E	1"	1"

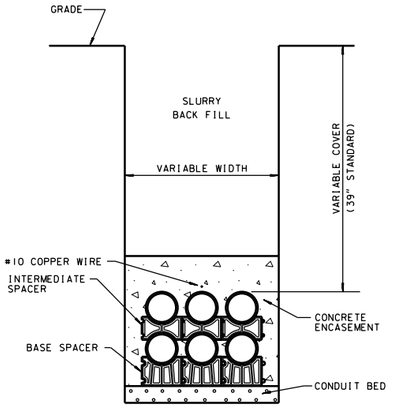


BASE AND INTERMEDIATE SPACE DETAIL
N.T.S.

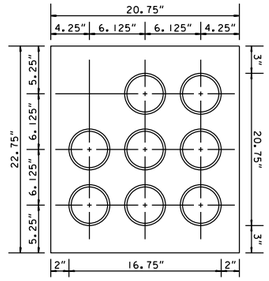


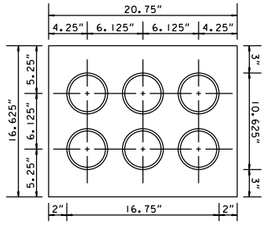


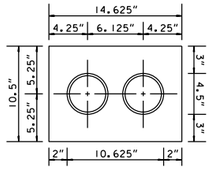


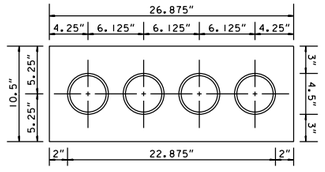


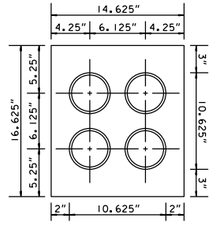
CROSS SECTION VIEW. TYP.
N.T.S.



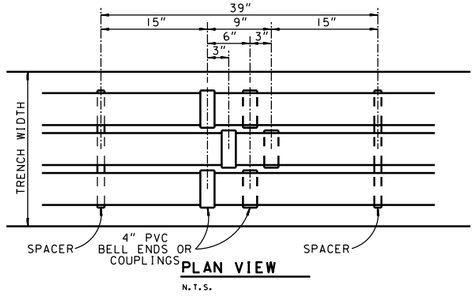




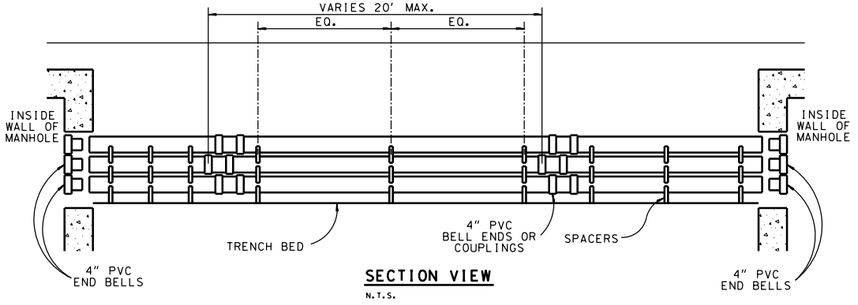




CROSS SECTION VIEW
N.T.S.



PLAN VIEW
N.T.S.



SECTION VIEW
N.T.S.

DUCT INSTALLATION DETAIL
N.T.S.

SHEET 16 OF 16

STATE PROJECT NUMBER 2080-00-72	HWY: N. TEUTONIA	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT DETAILS	NOT TO SCALE	SHEET NO: 135	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2019\NORTH TEUTONIA AVE - GROELING TO CAPITOL\DGN\DETAIL D.DGN

LEGEND:

= PLANT NEW TREE
STATION (TYPE)
SEE KEY AND NOTES

PLANT KEY:

SH = SUNBURST HONEYLOCUST
CP = CALLERY PEAR
AM = AUTUMN BLAZE MAPLE
AC = ACCOLADE ELM
JL = JAPANESE TREE LILAC
TT = TULIP TREE
CS = CUMULUS SERVICEBERRY
KC = KENTUCKY COFFEE TREE
IW = IRONWOOD
AH = AMERICAN HORNBEAM
RM = ROYAL RED MAPLE
FH = FORT MCNAIR RED HORSE CHESTNUT
DR = DAWN REDWOOD
FM = FLEMING FILLIGREE CRAPE MYRTLE

NOTES:

1) ADJUST PLANTING LOCATION MIN 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.

2) URBAN FORESTRY SPECIALIST SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.

3) MULCH IS INCIDENTAL TO TREE PLATING, SEE PLANT DATA CHART.

4) SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

N

BEGIN PROJECT 2080-00-72
STA 149+76.53

BEGIN CONSTRUCTION
STA 48+24.45

R/L W. CHAMBERS ST

STA 155+60 LT (CP)
STA 156+50 LT (CP)
STA 157+90 LT (JL)
STA 158+80 LT (AM)
R/L N. TEUTONIA AVE
STA 159+69 LT (JL)
STA 162+11 LT (SH)
STA 163+06 LT (TT)

END CONSTRUCTION
STA 50+79.80

END CONSTRUCTION
STA 51+11.00

END CONSTRUCTION
STA 51+86.55

R/L W. CHAMBERS ST

R/L W. COLUMBIA ST

R/L W. BURLEIGH ST

W. GROELING AVE
W. CHAMBERS ST
W. COLUMBIA ST
W. BURLEIGH ST
N. TEUTONIA AVE

48
150
152
154
156
158
160
162
52

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLANTING PLAN	SHEET 136	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\023101_PL.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

LEGEND:

☆ = PLANT NEW TREE STATION (TYPE) SEE KEY AND NOTES

PLANT KEY:

SH = SUNBURST HONEYLOCUST
CP = CALLERY PEAR
AM = AUTUMN BLAZE MAPLE
AC = ACCOLADE ELM
JL = JAPANESE TREE LILAC
TT = TULIP TREE
CS = CUMULUS SERVICEBERRY
KC = KENTUCKY COFFEE TREE
IW = IRONWOOD
AH = AMERICAN HORNBEAM
RM = ROYAL RED MAPLE
FH = FORT MCNAIR RED HORSE CHESTNUT
DR = DAWN REDWOOD
FM = FLEMING FILLIGREE CRAPE MYRTLE

NOTES:

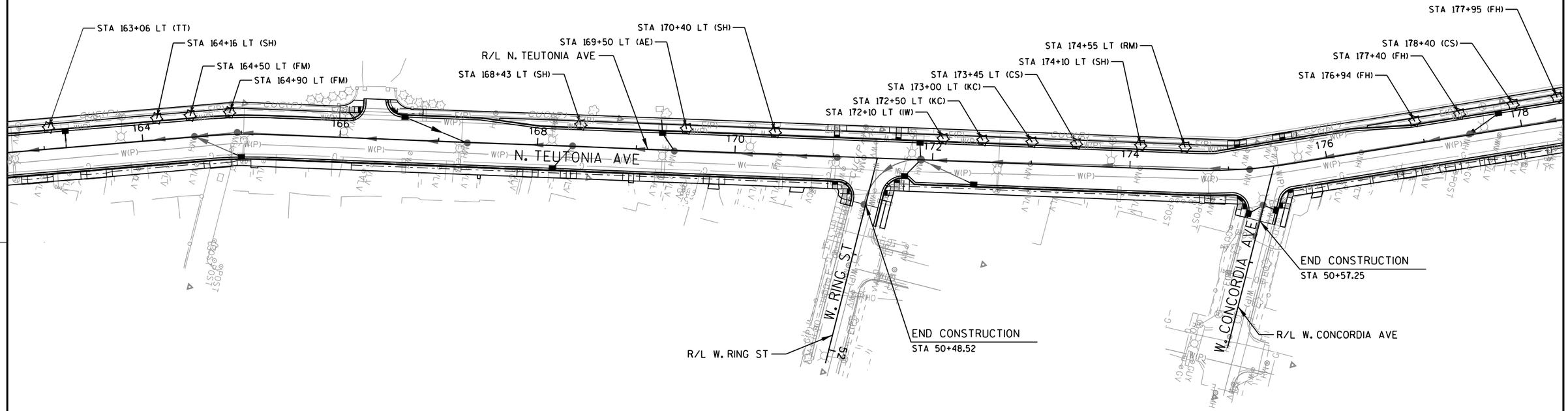
1) ADJUST PLANTING LOCATION MIN 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.

2) URBAN FORESTRY SPECIALIST SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.

3) MULCH IS INCIDENTAL TO TREE PLATING, SEE PLANT DATA CHART.

4) SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

N



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLANTING PLAN	SHEET 137	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\023102_PL.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND:

⛤ = PLANT NEW TREE
STATION (TYPE)
SEE KEY AND NOTES

PLANT KEY:

SH = SUNBURST HONEYLOCUST
CP = CALLERY PEAR
AM = AUTUMN BLAZE MAPLE
AC = ACCOLADE ELM
JL = JAPANESE TREE LILAC
TT = TULIP TREE
CS = CUMULUS SERVICEBERRY
KC = KENTUCKY COFFEE TREE
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RM = ROYAL RED MAPLE
FH = FORT MCNAIR RED HORSE CHESTNUT
DR = DAWN REDWOOD
FM = FLEMING FILLIGREE CRAPE MYRTLE

NOTES:

1) ADJUST PLANTING LOCATION MIN 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.

2) URBAN FORESTRY SPECIALIST SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.

3) MULCH IS INCIDENTAL TO TREE PLATING, SEE PLANT DATA CHART.

4) SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

N

STA 178+40 (CS)
STA 177+40 (FH)
STA 177+95 (FH)
STA 178+40 (CS)
STA 179+80 (DR)
STA 180+35 (DR)
STA 180+92 (DR)
STA 181+35 (FH)
STA 182+25 LT (CP)
STA 183+25 LT (AH)
STA 184+25 LT (AH)

178 180 182 184 186 188 190 192

N. TEUTONIA AVE

R/L N. TEUTONIA AVE

STA 179+50 RT (TT)

N. 18TH ST

52

R/L N. 18TH ST

END CONSTRUCTION
STA 51+35.27

W. KEEFE AVE

52

R/L W. KEEFE AVE

END CONSTRUCTION
STA 50+75.93

R/L W. KEEFE AVE

BEGIN CONSTRUCTION
STA 49+39.62

N. 19TH ST

52

R/L N. 19TH ST

END CONSTRUCTION
STA 50+96.51

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLANTING PLAN	SHEET 138	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\023103_PL.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

LEGEND:

☆ = PLANT NEW TREE
STATION (TYPE)
SEE KEY AND NOTES

PLANT KEY:

SH = SUNBURST HONEYLOCUST
CP = CALLERY PEAR
AM = AUTUMN BLAZE MAPLE
AC = ACCOLADE ELM
JL = JAPANESE TREE LILAC
TT = TULIP TREE
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RM = ROYAL RED MAPLE
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DR = DAWN REDWOOD
FM = FLEMING FILLIGREE CRAPE MYRTLE

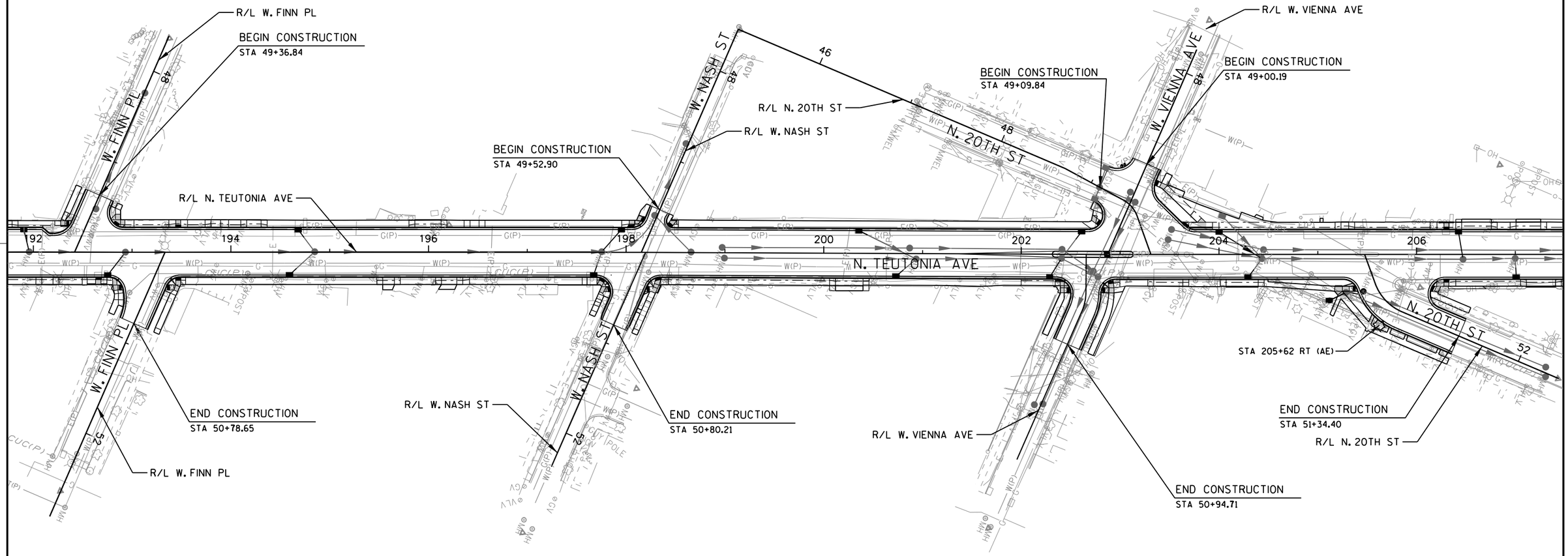
NOTES:

1) ADJUST PLANTING LOCATION MIN 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.

2) URBAN FORESTRY SPECIALIST SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.

3) MULCH IS INCIDENTAL TO TREE PLATING, SEE PLANT DATA CHART.

4) SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLANTING PLAN	SHEET 139	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\023104_PL.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

TRAFFIC & STREET LIGHTING GENERAL NOTES:

PRIOR TO CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE DETERMINED IN THE FIELD BY CONTACTING "DIGGERS HOTLINE."

STREET LIGHTING & TRAFFIC SIGNALS SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 EXCEPT:

THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCLUDING REPAIRS, REPLACEMENT OR RELOCATION ETC. OF STREET LIGHTING OR TRAFFIC SIGNAL FACILITIES IF THE CONTRACTOR DOES ANY DEVIATION FROM THE STREET LIGHTING OR TRAFFIC SIGNAL DESIGN WITHOUT THE STREET LIGHTING ENGINEERS SIGNED PERMISSION.

1 DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2 LOCATIONS OF THE PVC CONDUITS WHERE THEY ARE REQUIRED ARE IDENTIFIED IN THE PRINTS. HOWEVER, INSTALLATION MAY REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. ANY RELOCATIONS MUST BE APPROVED BY THE ENGINEER. FIELD MARK EACH CONDUIT LOCATION BY STAMPING AND PAINTING WITH RED PAINT ON TOP AND BACKSIDE OF CURB.

3 TYPICAL CONDUIT INSTALLED UP TO DIRECT BURIED STREET LIGHT POLES IS AS FOLLOWS 3-INCH OR 2.5-INCH (AS NOTED) SCHEDULE 40 RIGID PVC TO STREET LIGHTING METAL HOUSING (PEDESTAL), THE 1.5-INCH SCHEDULE 40 RIGID PVC TO STREET LIGHT POLE CABLE SLOT, AND THE 2-INCH SCHEDULE 40 RIGID PVC TO SIGNAL STANDARD BASE AND RISER FOR TRAFFIC SIGNAL ON STREET LIGHT POLE.

4 DEPTH OF CONDUIT INSTALLED BELOW THE STREETS, HIGHWAYS, ROADS, AND ALLEYS SHALL BE 24-INCHES MINIMUM AND 36-INCHES MAXIMUM. (MEASURED FROM FINISHED FLANGE LINE)

5 CONDUIT INSTALLED BEHIND CURB, AND UNDER DRIVEWAYS SHALL BE INSTALLED AT A DISTANCE OF 6 INCHES AWAY FROM THE BACK OF CURB TO THE CENTER LINE OF CONDUIT, AND 18 INCHES DOWN MEASURED FROM THE TOP OF CURB OR FINISHED GRADE TO THE TOP OF CONDUIT.

6 WHEN THERE IS MORE THAN ONE CONDUIT TO BE INSTALLED, PLACE ALL CONDUITS IN THE SAME TRENCH.

7 ANY EXCEPTION TO THE MINIMUM OR MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

8 THE CONTRACTOR OR HIS SUBCONTRACTOR MUST MAKE SURE THE AREA BEHIND CURB AND/OR TRENCH SHALL BE FREE OF DEBRIS AND OVERPOUR AND SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

9 BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

10 ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS. (SEE NEC 352.28 2008 CODE)

11 PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED IMMEDIATELY AFTER INSTALLATION WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

12 ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

13 CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX OR JUNCTION BOX OR BASE TO BASE, ETC.).

14 PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUIT.

15 ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS UNLESS OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

16 WHEN ENDS OF CONDUIT DO NOT CONNECT TO A PULL BOX / VAULT AND WILL END UP UNDER CONCRETE WALK. THE CONTRACTOR IS REQUIRED TO LEAVE A 24" X 24" BOX FORM CENTERED OVER THE END OF CONDUIT AND FILL THE BOXFORM WITH CRUSHED GRAVEL. (PER WISDOT SPEC 209.2.1(1) GRANULAR BACKFILL)

17 ALL PIPE CROSSINGS AND PULL BOXES / VAULTS SHALL BE AT LEAST SIX (6) FEET AWAY FROM FIRE HYDRANTS, UNLESS NOTED OTHERWISE, OR APPROVED BY THE STREET LIGHTING ENGINEER.

18 ALL POLES AND TRAFFIC STANDARDS IN CONCRETE ARE REQUIRED TO HAVE A 30"X30" BOX SHAPED JOINT PLACED AROUND THEM USING AN EXPANSION JOINT FILLER. UNLESS NOTED OTHERWISE (SEE DETAIL 122)

19 TYPICAL RECTANGULAR PULL BOXES / VAULTS SHOULD BE INSTALLED AS SHOWN ON PLANS, BUT WHEN IT IS NOT POSSIBLE, A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS AND FIRE HYDRANTS SHOULD BE USED, OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

20 LIGHT POLES AND TRAFFIC STANDARDS INSTALLED BEHIND THE CURB MUST MEET A MINIMUM DISTANCE OF 24 INCHES FROM THE FACE OF CURB TO THE CURB SIDE FACE OF THE POLE OR TRAFFIC STANDARD.

21 COORDINATE NEW CONDUIT CONNECTIONS WITH EXISTING CONDUIT, DUCT PACKAGES, AND PULL BOXES/ VAULTS/ MANHOLES WITH CITY OF MILWAUKEE STREET LIGHTING. THE CITY REQUIRES THREE WORKING DAYS ADVANCED NOTICE. CONTACT ELECTRICAL SUPERVISOR
STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251 OR DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-3687 (CELL) 414-708-5148 OR DISPATCHER @ 414-286-3687

22 IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL PULL BOXES / VAULTS, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP SUPERVISORS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK.
STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251
STREET LIGHTING - NEAL KARWEIK (OFFICE) 414-286-5943 (CELL) 414-708-4245
STREET LIGHTING - THOMAS HUGHES (OFFICE) 414-286-3457 (CELL) 414-708-3175
STREET LIGHTING - DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-5941 (CELL) 414-708-5148
TRAFFIC SIGNALS - DISPATCHER @ 414-286-3687

23 CONDUIT WILL ONLY BE INSTALLED AFTER THE CURB IS POURED, UNLESS APPROVED BY BOTH THE ENGINEER & STREET LIGHTING SHOP SUPERVISOR.

24 CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

25 CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

26 ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY THE LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

27 Provide three sets as-built drawings detailing the final placement of conduit, cabling, equipment, and geometric modifications under the contract. Provide PDF copy conforming to CMM 1-65.14, or record all changes in Red ink Only on the As-Let (Design) paper drawings. The City will reject as-builts with incomplete or incorrect content or not conforming to CMM standards.

28 RETURN ALL REMOVED STREET LIGHTING FIXTURES TO STREET LIGHTING FIELD OFFICE
(ATTN: MIKE GUERRERO)
1540 W. CANAL ST. MILWAUKEE WI 53233

UTILITY LINE CODE

SAN	SANITARY SEWER
STO	STORM SEWER
W	WATER
G	GAS
G	PROPOSED GAS
E	ELECTRIC
TE&ES	TRAFFIC & STREET LIGHTING
	OLD CITY UNDERGROUND CONDUIT
CUC	PROPOSED CITY UNDERGROUND CONDUIT
T	TELEPHONE
TV	CABLE

SHEET 1 OF 12

PROJECT NO: 2080–00–72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 140	E

TRAFFIC & STREET LIGHTING GENERAL NOTES:

AS-BUILT GUIDELINES:

PROVIDE AS-BUILT DRAWINGS DETAILING THE FINAL PLACEMENT OF CONDUIT, CABLING, EQUIPMENT, AND GEOMETRIC MODIFICATIONS UNDER THE CONTRACT. PROVIDE PDF COPY CONFORMING TO CMM 1-65.14, OR RECORD ALL CHANGES IN RED INK ONLY ON THE AS-LET (DESIGN) PAPER DRAWINGS. THE ENGINEER WILL REJECT AS-BUILTS WITH INCOMPLETE OR INCORRECT CONTENT OR NOT CONFORMING TO CMM STANDARDS.

IT IS CRITICAL THAT THE CONTRACTOR WORK ON THE AS-BUILT DRAWINGS WHILE THE JOB IS PROGRESSING, SO CHANGES ARE DOCUMENTED WHILE THEY ARE STILL FRESH IN YOUR MIND.

IF THERE IS A STRUCTURE DRAWING, INCLUDE ALL STRUCTURES DRAWING SHEETS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSERT ANY ADDENDUM OR REPLACEMENT DRAWING SHEETS. TO DO THIS, RENUMBER THEM SIMILARLY TO THE ORIGINAL DRAWING SHEET.

FOR EXAMPLE:
REVISED SHEET 5 WOULD REPLACE SHEET 5. HOWEVER, ALL THE ORIGINAL SHEETS SHALL REMAIN IN THE AS-BUILT. IF THE SHEET HAS BEEN REPLACED CROSS IT OUT WITH AN X AND INDICATE THE NUMBER OF ITS REPLACEMENT SHEET. IF ADDITIONAL SHEETS WERE ADDED, INSERT THEM IN THE ORIGINAL LOCATION AND LABEL THEM WITH THE PREVIOUS SHEET NUMBER FOLLOWED BY AN "A", "B", "C", ETC.

NOTE THE SHEET CHANGES ON THE TITLE SHEET UNDER THE ORDER OF SHEETS.

THE TITLE SHEET OF THE AS-BUILT DRAWING SHOULD INCLUDE THE FOLLOWING INFORMATION:
AS-BUILT DRAWING
SUPERVISOR:
PROJECT MANAGER:
CONTRACTOR LEADER:
CONTRACTOR COMAPNY:
WORK STARTED:
WORK COMPLETED:

LINE OUT OR CROSS OUT ALL CHANGED INFORMATION AND WRITE-IN THE CORRECTED INFORMATION ABOVE THE ORIGINAL OR CLOSE TO IT WHEREVER POSSIBLE. USE BLANK SPACES ON THE DRAWING SO NOTES ARE NOT SUPERIMPOSED. DRAWINGS WITH EXCESSIVE DETAIL MAY REQUIRE AN ALTERNATE APPROACH. NUMBERED CHANGES OR ADDITIONS MAY BE SHOWN ON SUPPLEMENTAL NON-DRAWING SHEETS.

- LOCATE AND CLEARLY LABEL ALL CONDUIT RUNS, FITTINGS, SPLICE VAULTS, PULL BOXES, METER PEDESTALS, CONCRETE BASES, TRANSFORMERS, POLES AND OTHER APPURTENANCES IN TWO DIRECTIONS. SWING TIES SHOULD BE MADE FROM THE OBJECTS THAT ARE PERMANENT IN NATURE AND VISIBLE ON THE FINISHED SURFACE.
- STREET NAMES SHALL BE ON ALL SHEETS.
- SHOW ALL SIZES AND MATERIAL TYPES OF PIPES AND CONDUITS, IF CHANGED OR MODIFIED FROM ORIGINAL DESIGN.
- ALL HORIZONTAL DISTANCES SHALL BE SHOWN TO THE NEAREST TENTH OF A FOOT (I.E., 205.3'). ALL VERTICAL DISTANCES SHALL BE TO THE NEAREST INCH (I.E., 24")
- SHOW LOCATION AND ELEVATIONS ON PIPES AND FITTINGS WHERE CHANGES OR DEFLECTIONS IN DIRECTION OCCUR.
- SPECIAL DETAIL DRAWINGS MAY BE REQUIRED WHERE INSTALLATIONS ARE NOT SHOWN ON APPROVED CONSTRUCTION DRAWINGS FOR WHATEVER REASON OR WHERE REQUIRED FOR CLARITY.
- TYPICAL SERVICE INSTALLATION DETAILS WITH DEVIATIONS FROM ORIGINAL PLANS OR STANDARD DETAILS SHALL BE NOTED ON AS-BUILT DRAWINGS.
- NO ARBITRARY MARK-UPS WILL BE PERMITTED.

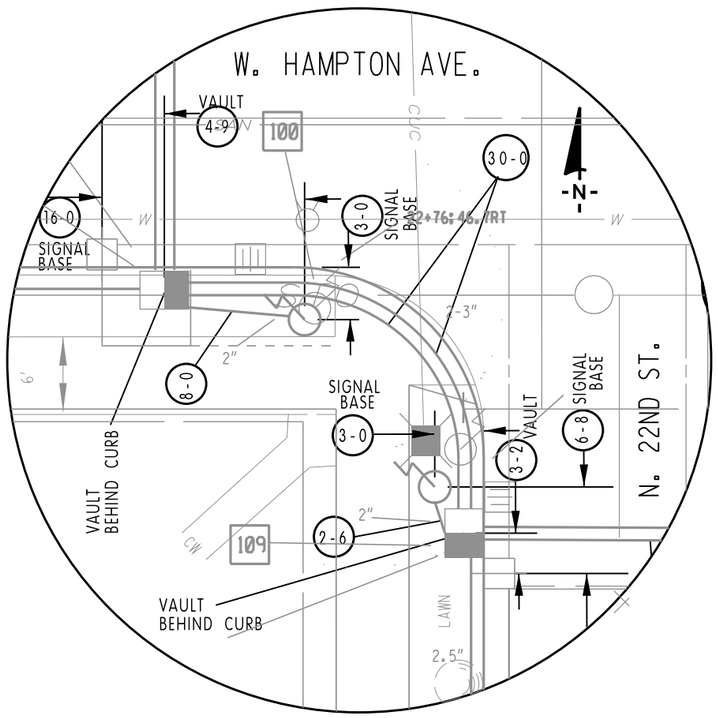
IF THERE ARE NO CORRECTIONS OR ADDITIONS TO THE AS-LET PLAN(S) PUT "NO CHANGE" ON THE SHEET WITH ALL OTHER REQUIRED AS-BUILT INFORMATION.

SEND TO:
CITY OF MILWAUKEE
INFRASTRUCTURE SERVICES DIVISION
TRANSPORTATION SECTION
STREET LIGHTING & CUC MANAGER
841 NORTH BROADWAY
ROOM 920
MILWAUKEE, WISCONSIN 53202

RECORD RETENTION REQUIREMENTS:

- CONTRACTOR TO LOCATE AND CLEARLY DIMENSION ALL OF THERE NEWLY INSTALLED CONDUIT RUNS, FITTINGS, SPLICE VAULTS, PULL BOXES, METER PEDESTALS, CONCRETE BASES, TRANSFORMERS, POLES AND OTHER APPURTENANCES IN TWO (2) DIRECTIONS. SWING TIES SHOULD BE MADE FROM OBJECTS THAT ARE PERMANENT IN NATURE AND VISIBLE ON THE FINISHED SURFACE.
- STREET NAMES SHALL BE ON ALL SHEETS.
- SHOW ALL SIZES AND MATERIAL TYPES OF PIPES AND CONDUITS, IF CHANGED OR MODIFIED FROM ORGINAL DESIGN.
- ALL HORIZONTAL DISTANCES SHALL BE SHOWN TO THE NEAREST TENTH OF A FOOT (I.E., 205.3'). ALL VERTICAL DISTANCES SHALL BE SHOWN TO THE NEAREST INCH (I.E. 24").
- SHOW LOCATION AND ELEVATIONS OF PIPES AND FITTINGS WHERE CHANGES OR DEFLECTIONS IN DIRECTION OCCUR.
- SPECIAL DETAIL DRAWINGS WILL BE SUPPLIED WHERE REQUIRED FOR CLARITY.
- DEVIATIONS FROM ORIGINAL PLANS OR STANDARD DETAILS SHALL BE NOTED ON AS-BUILT DRAWINGS.
- IF THERE ARE NO CORRECTIONS OR ADDITIONS TO THE AS-LET PLAN(S) PUT "NO CHANGE" ON THE SHEET.

SUPERVISOR:_____
PROJECT MANAGER:_____
CONTRACTOR LEADER:_____
CONTRACTOR COMPANY:_____
WORK STARTED:_____
WORK COMPLETED:_____



FIELD RECORD EXAMPLE DETAIL NOT TO SCALE

TYPICAL DIMENSIONING OF CONDUIT, VAULTS, AND CONCRETE BASES

MEASURING GUIDE LINES

IF CONDUIT IS NOT PLACED DIRECTLY BEHIND THE CURB IN THE ISLANDS & SIDE TERRACE AREAS, A MEASURED DISTANCE FROM THE FACE OF CURB TO THE CONDUIT WILL NEED TO BE PROVIDED.

PROVIDE A MEASURED DISTANCE OF UNINTERRUPTED CONDUIT RUNS

USE PERMANENT OBJECTS LIKE HYDRANTS, CATCH BASINS, OR EVEN CURB FACE LINES EXTENED TO MEASURE OFF WHEN LOCATING CONDUIT, VAULTS AND CONCRETE BASES.

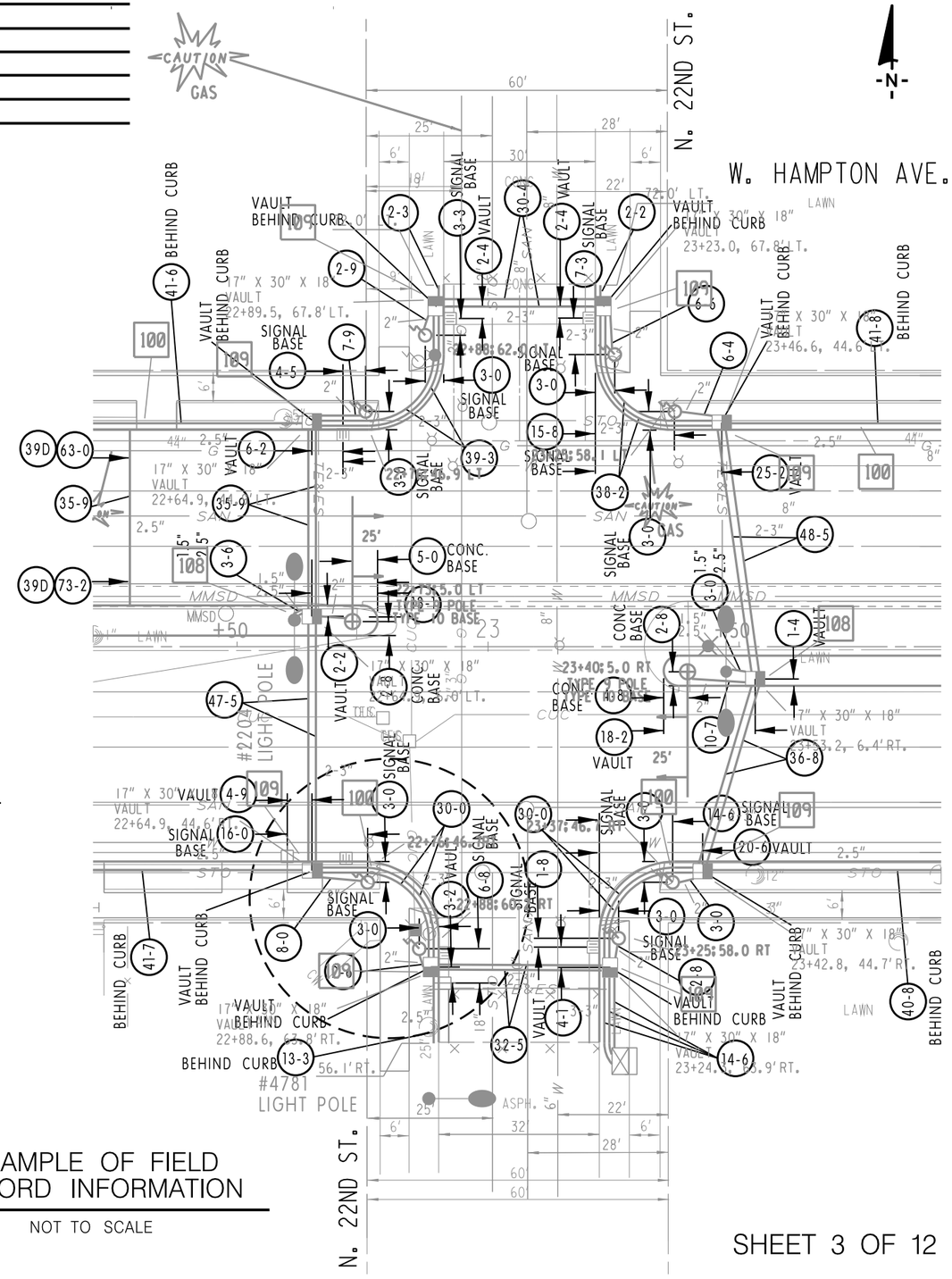
MEASURE TO OR FROM THE CENTERS OF OBJECTS FOR DISTANCE TAKING.

(39D) MEANS = CONDUIT IS 39" DEEP

(48-5) MEANS = LENGTH OF CONDUIT IS 48.5 FT. LONG (MEASURED TO NEAREST TENTH OF A FOOT)

OR

(25-6) MEANS = DISTANCE OF 25.6 FT. BETWEEN PERMANENT OBJECT OR CURB FACE TO CONDUIT, VAULT, AND CONCRETE BASE (MEASURED TO NEAREST TENTH OF A FOOT)



EXAMPLE OF FIELD RECORD INFORMATION

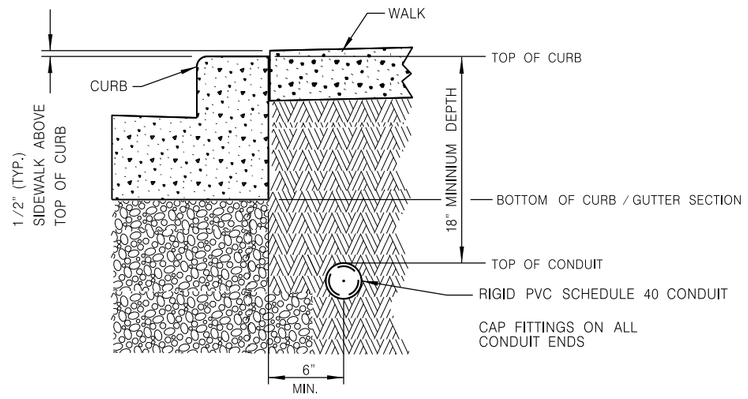
NOT TO SCALE

SHEET 3 OF 12

PROJECT NO: 2080–00–72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 142	E

2

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



100 DETAIL "A"

NOT TO SCALE

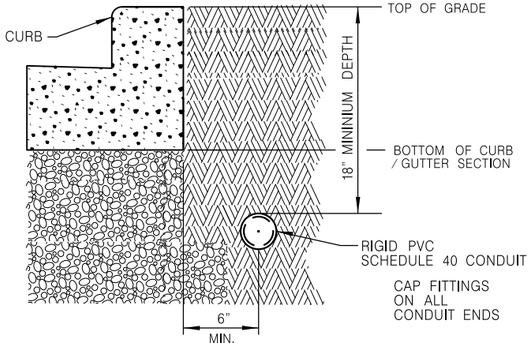
TYPICAL CONDUIT INSTALLATION
BEHIND CURB

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

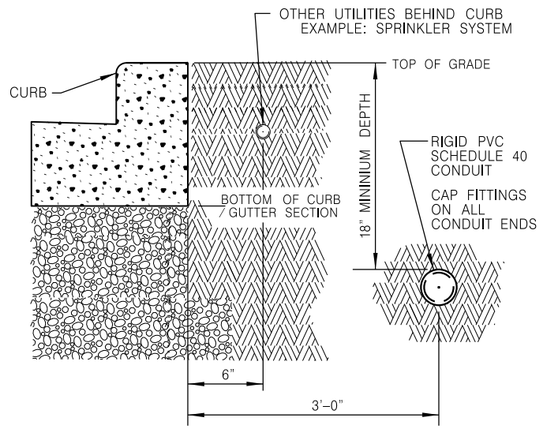
NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.

DETAIL "B"

CONDUIT TO BE PLACED 6" ON CENTER DIRECTLY BEHIND CURB,
UNLESS NOTED OR APPROVED BY ENGINEER.



DETAIL "C"

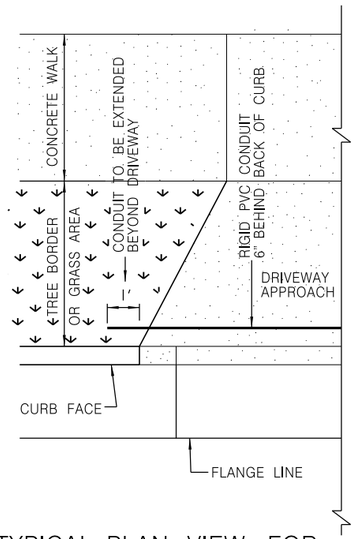


100 DETAIL "B" & "C"

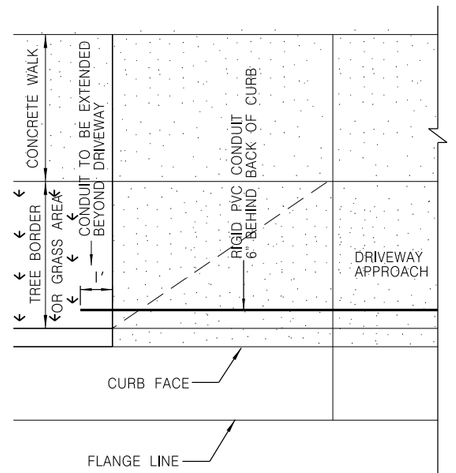
NOT TO SCALE

TYPICAL CONDUIT INSTALLATION
BEHIND CURB

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

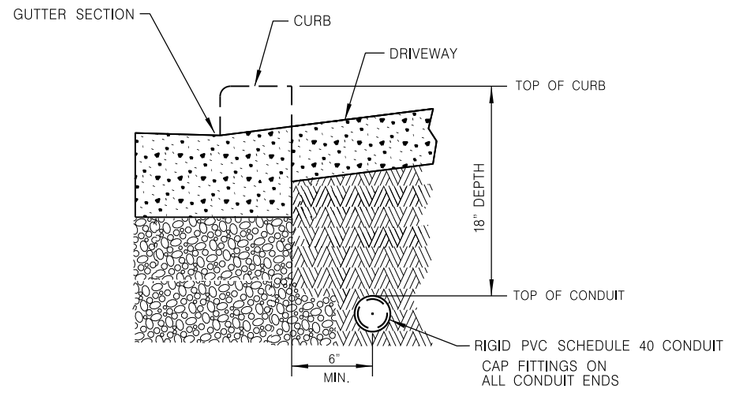


TYPICAL PLAN VIEW FOR
FLARED DRIVEWAY



TYPICAL PLAN VIEW FOR
DEPRESSED DRIVEWAY

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



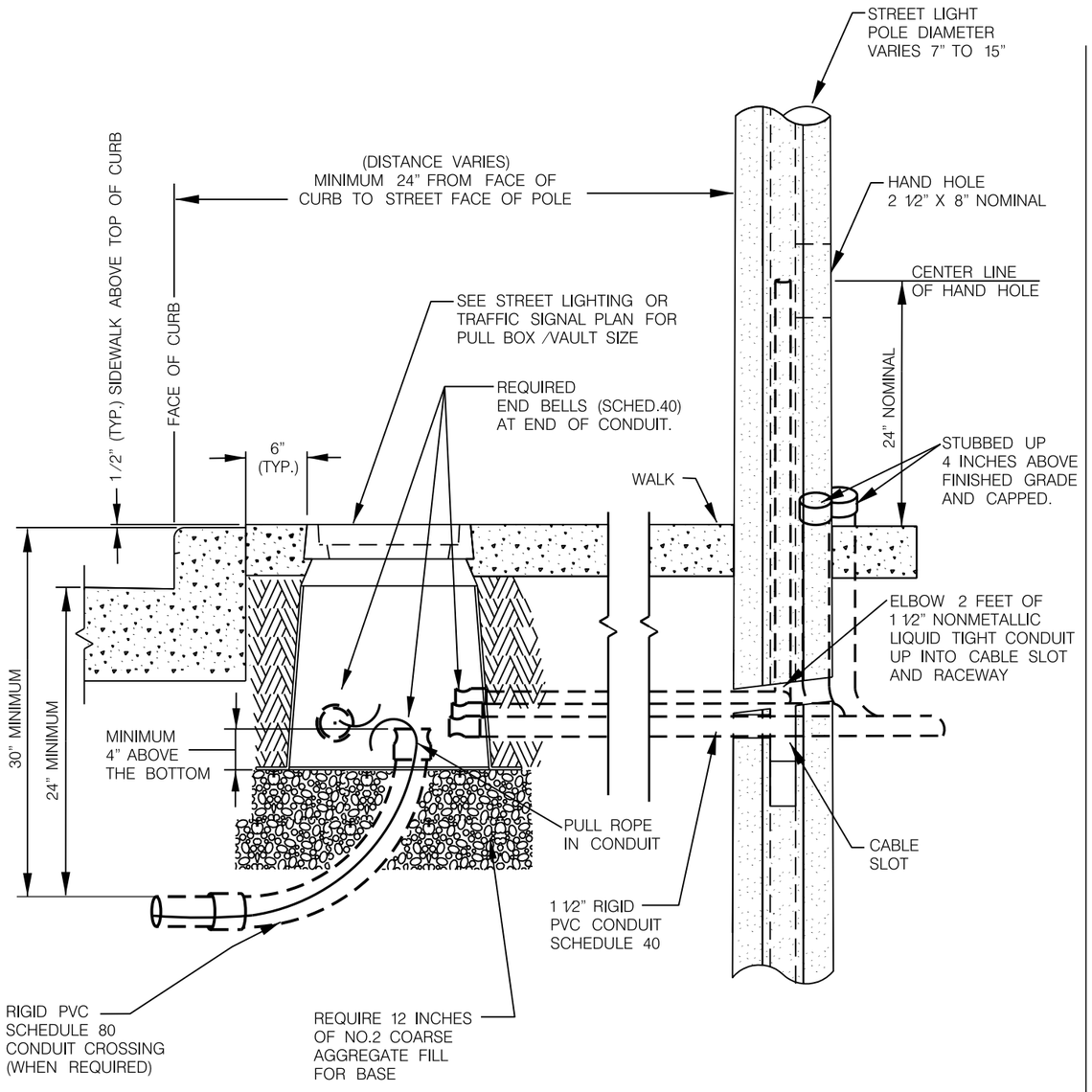
101 DETAIL

NOT TO SCALE

TYPICAL CONDUIT INSTALLATION
UNDER DRIVEWAYS OR PEDESTRIAN RAMPS

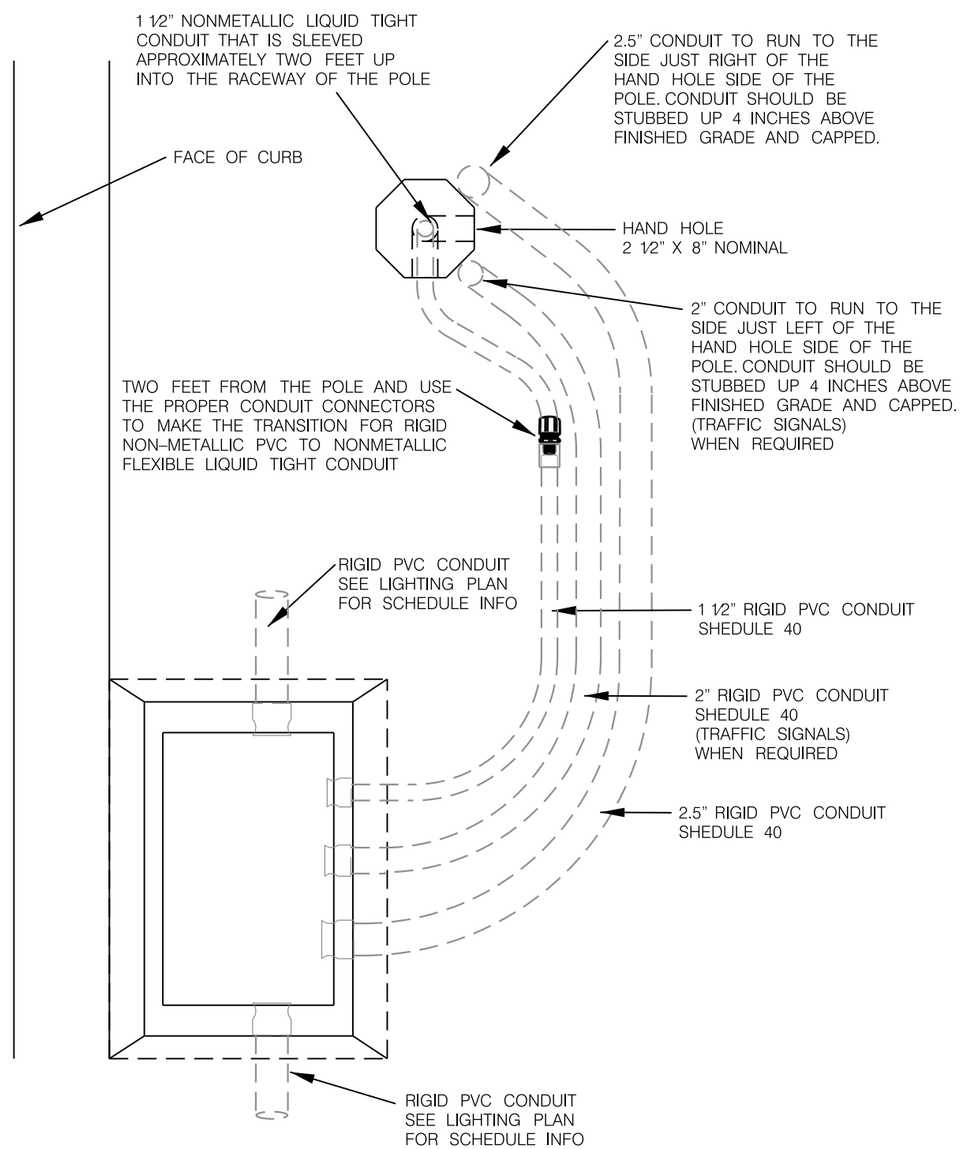
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

SHEET 4 OF 12



SECTION VIEW

NOT TO SCALE



PLAN VIEW

NOT TO SCALE

108A

DETAIL VERSION

TYPICAL CONDUIT INSTALLATION FROM PULL BOX / VAULT TO POLE

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

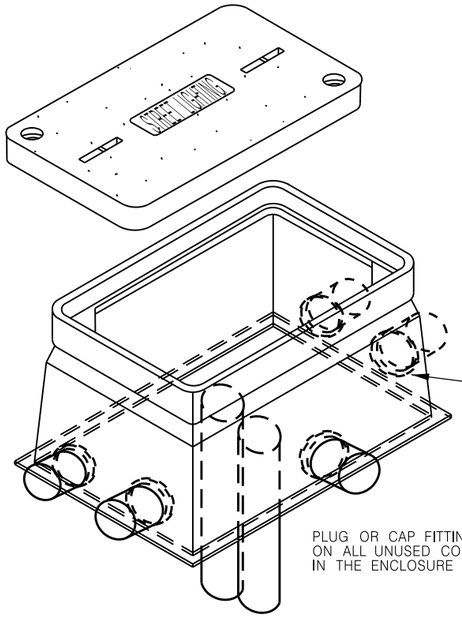
SHEET 5 OF 12

PROJECT NO: 2080–00–72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 144	E

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave – Groeling to Capitol (2080–00–72)\SL Conduit\SL Details.dgn PLOT DATE : 01–JUL–2019 15:17 PLOT BY : cblack PLOT NAME : PLOT SCALE : 20.000000:1.000000

WISDOT/CADDS SHEET 42

2

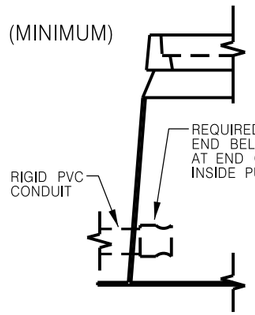


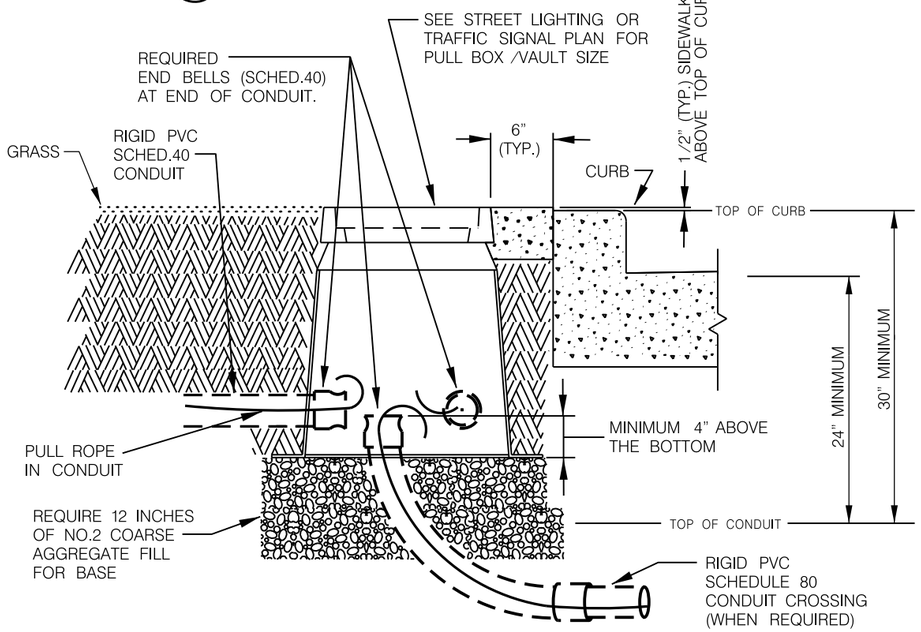
HEAVY DUTY COVER
W/ STREETLIGHTING LOGO
& W / 2 BOLTS
COLOR: GRAY
TIER 15 RATING (MINIMUM)

PULL BOX /VAULT
FLARED WALL
BOX W / NO BASE
COLOR: GRAY
TIER 15 RATING (MINIMUM)
(VARIOUS SIZES)

REQUIRED
END BELLS
(SCHED.40)
AT END OF
CONDUIT.

PLUG OR CAP FITTINGS
ON ALL UNUSED CONDUITS
IN THE ENCLOSURE





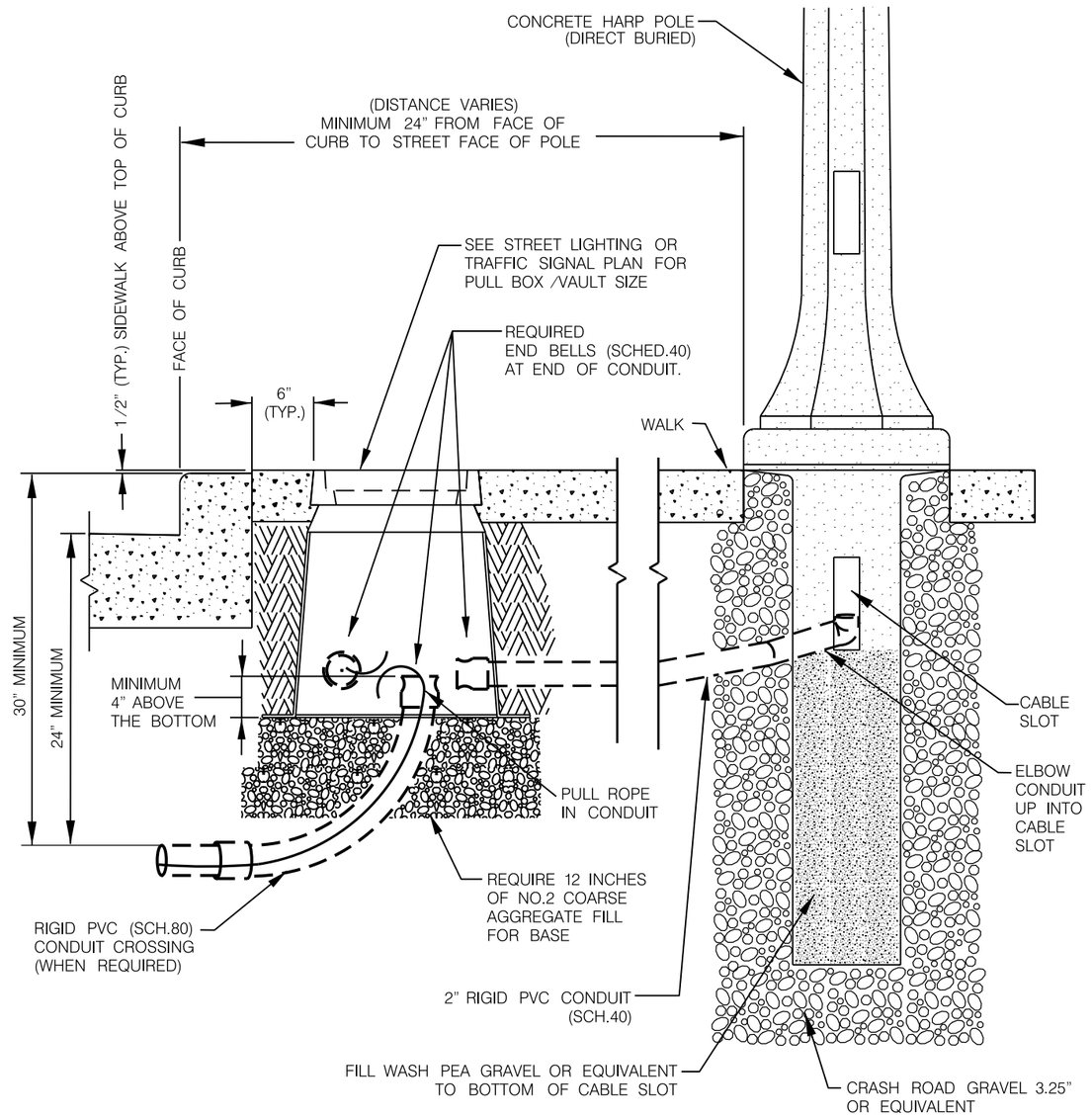
112 DETAIL

TYPICAL PULL BOX /VAULT INSTALLATION
IN EITHER PAVEMENT OR GRASS AREAS

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE

2



123 DETAIL

TYPICAL CONDUIT INSTALLATION
FROM PULL BOX TO POLES TYPE-6
(CONCRETE HARP POLE SPV.00060.801)

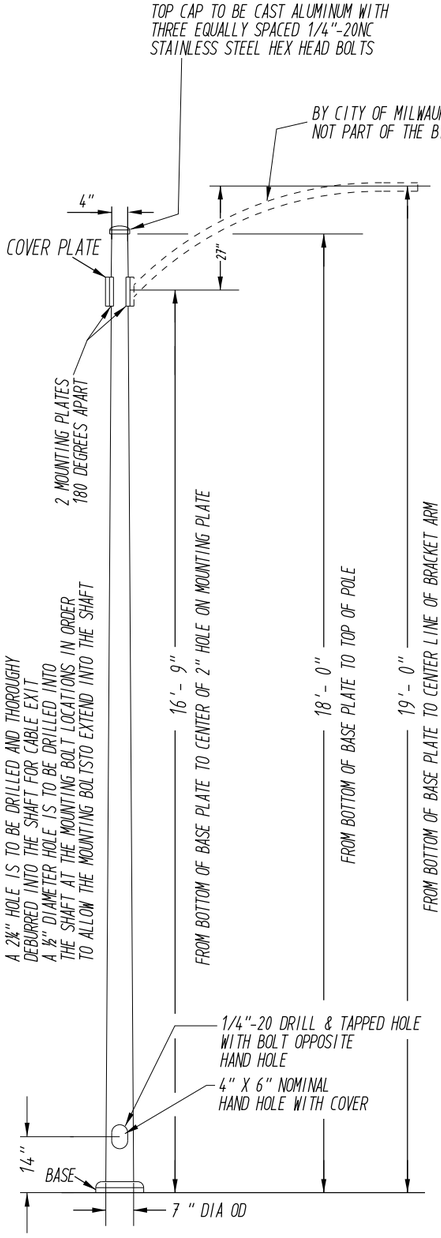
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

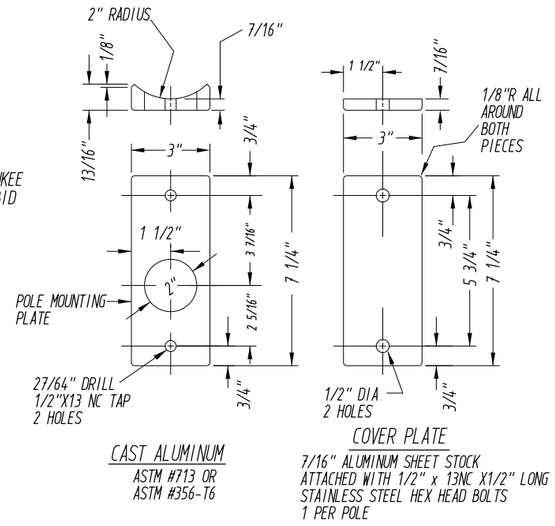
NOT TO SCALE

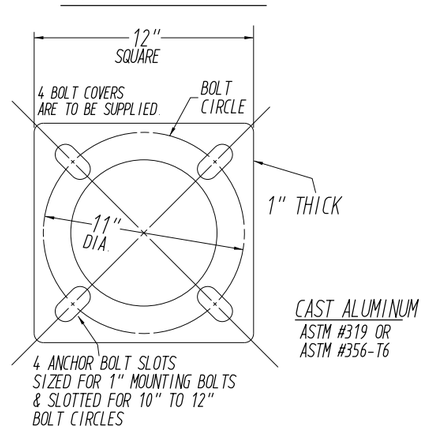
SHEET 6 OF 12

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 145	E

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave - Groeling to Capitol (2080-00-72)\SL Conduit\SL Details.dgn
PLOT DATE : 01-JUL-2019 15:17
PLOT BY : cblack
PLOT NAME :
PLOT SCALE : 20.000000:1.000000
WISDOT/CADDS SHEET 42

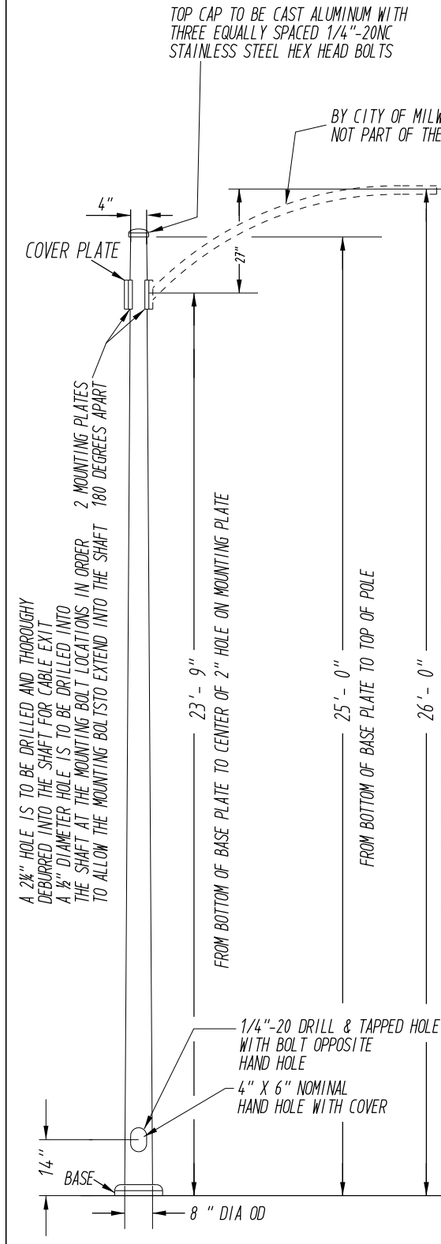


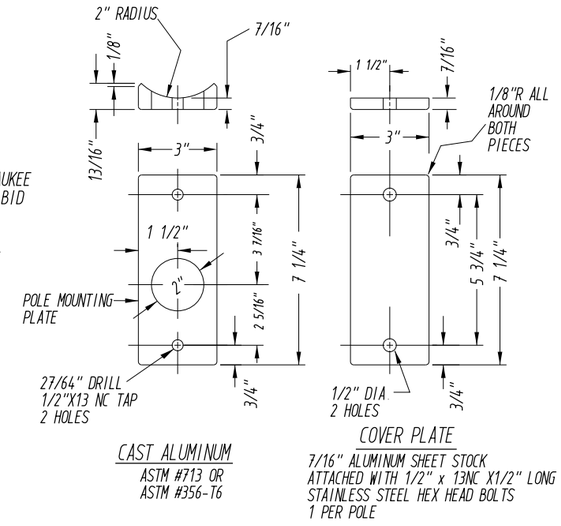


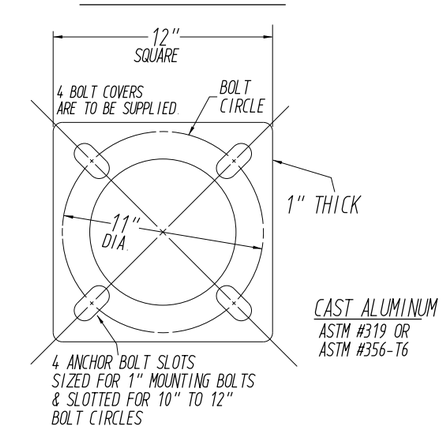


REVISED DATE:	REVISED BY:
SPEC NO. 12c-C-1	
BOLT DOWN ALUMINUM POLE 19 FOOT MOUNTING HEIGHT	
CITY OF MILWAUKEE D.P.W. TRANSPORTATION SECTION INFRASTRUCTURE SERVICES DIVISION	
STREET LIGHTING DIVISION	
DATE: 11-14-14 / SCALE: NONE / DRAWN: DK / DESIGN: BES / CHECKED: Jim / APPROVED: RWB	
SUPERSEDES	DRG. # B-14-11
SUPERSEDED BY	

POLES TYPE –11 (19 FT. ALUMINUM, BOLT DOWN) SPV.0060.319





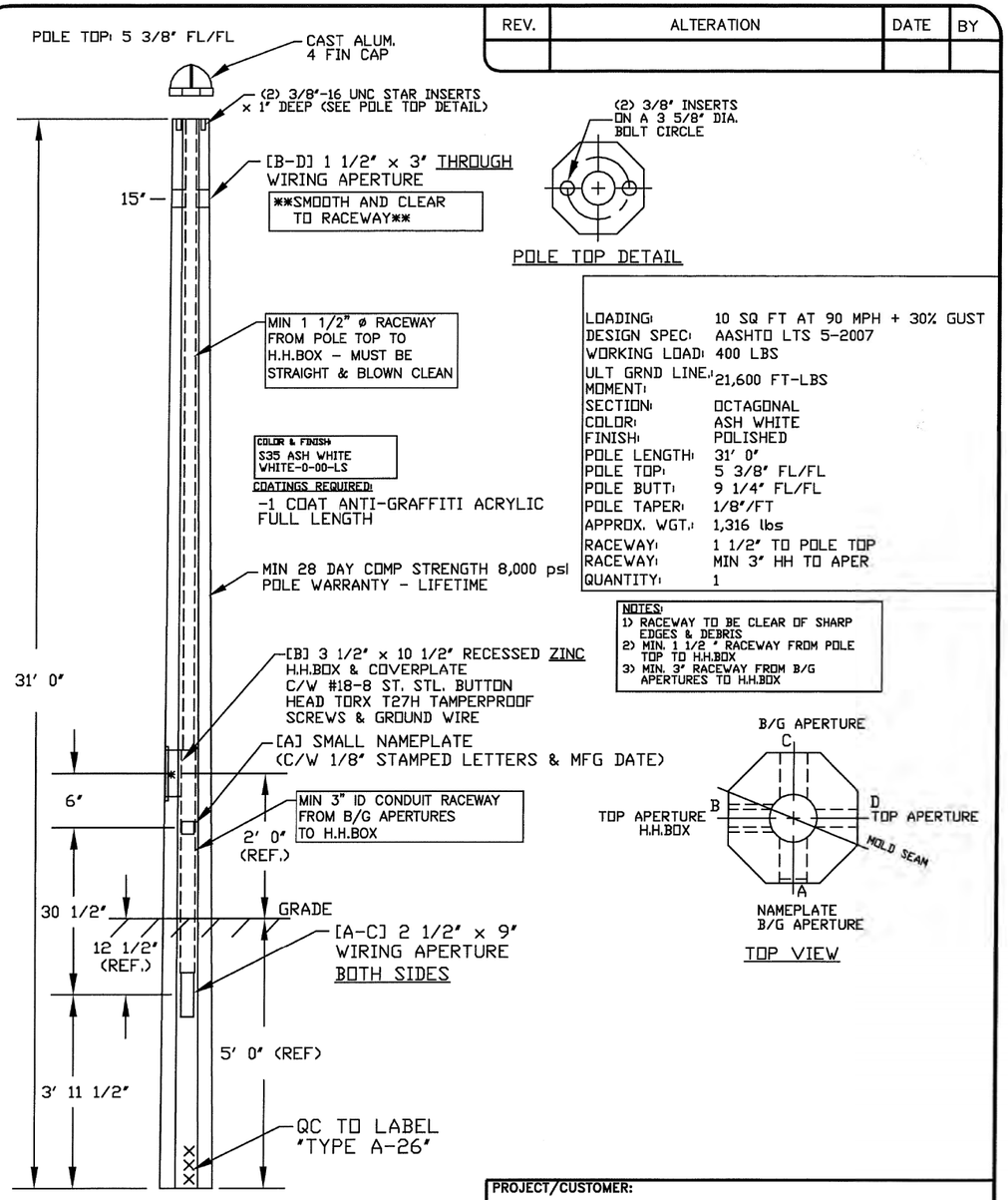


REVISED DATE:	REVISED BY:
SPEC NO. 12c-C-1	
BOLT DOWN ALUMINUM POLE 26 FOOT MOUNTING HEIGHT	
CITY OF MILWAUKEE D.P.W. TRANSPORTATION SECTION INFRASTRUCTURE SERVICES DIVISION	
STREET LIGHTING DIVISION	
DATE: 11-14-14 / SCALE: NONE / DRAWN: DK / DESIGN: BES / CHECKED: Jim / APPROVED: RWB	
SUPERSEDES	DRG. # B-14-13
SUPERSEDED BY	

POLES TYPE –12 (25 FT. ALUMINUM, BOLT DOWN) SPV.0060.320

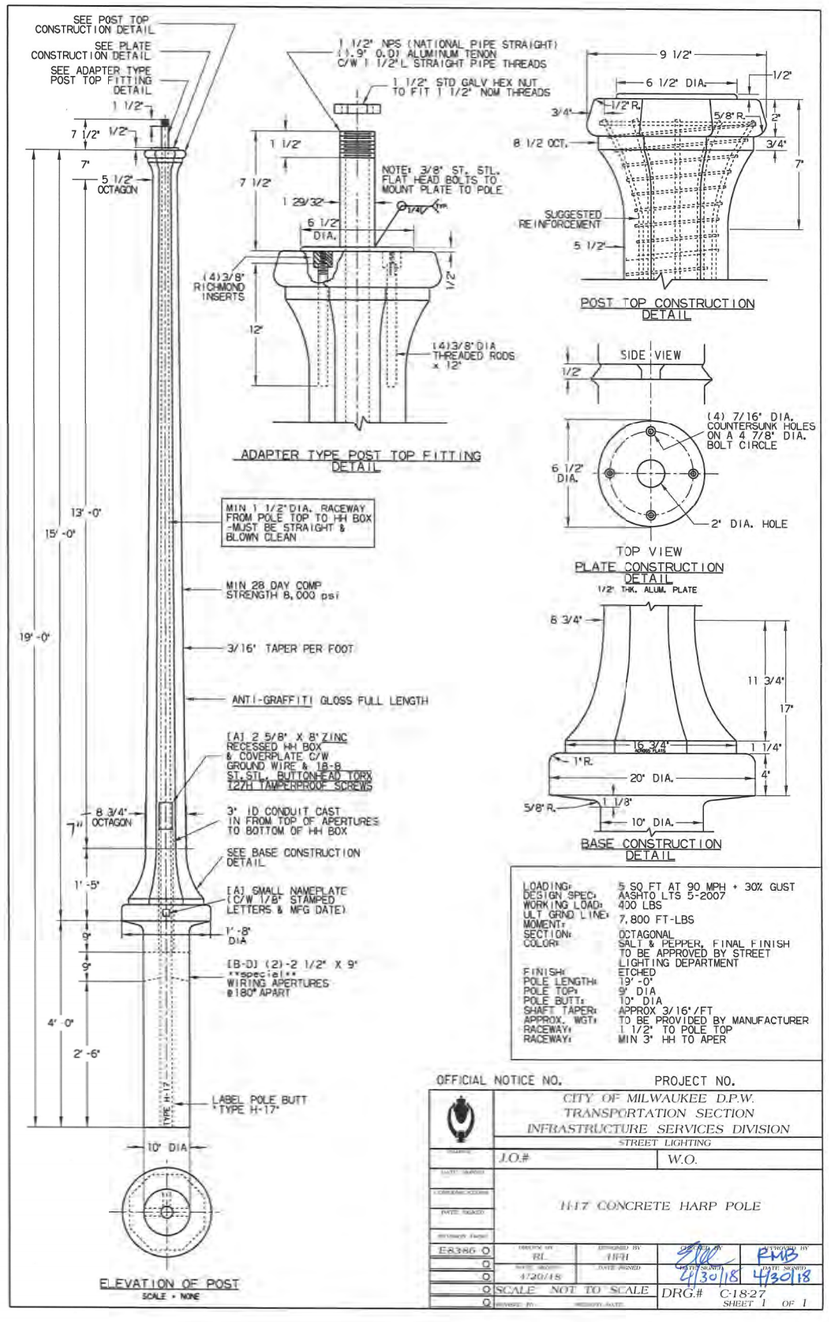
SHEET 7 OF 12

REV.	ALTERATION	DATE	BY



PROJECT/CUSTOMER:	CITY OF MILWAUKEE SPEC. DWG.# E-53-55 (REV 11-25-86)
DRAWN BY: / AT: / CHECKED BY: / DATE:	12-20-17
REVISION:	
DRAWING TYPE:	SPECIFICATION DRAWING
DRAWING NUMBER:	TYPE A-26

POLES TYPE-2 (A26 CONCRETE, DIRECT BURY)
(SPV.0060.312)



LOADING:	5 SQ.FT AT 90 MPH + 30% GUST
DESIGN SPEC:	AASHTO LTS 5-2007
WORKING LOAD:	400 LBS
ULT GRND LINE MOMENT:	7,800 FT-LBS
SECTION:	OCTAGONAL
COLOR:	SALT & PEPPER, FINAL FINISH TO BE APPROVED BY STREET LIGHTING DEPARTMENT
FINISH:	ETCHED
POLE LENGTH:	19'-0"
POLE TOP:	9" DIA
POLE BUTT:	10" DIA
SHAFT TAPER:	APPROX 3/16"/FT
APPROX. WGT:	TO BE PROVIDED BY MANUFACTURER
RACEWAY:	1 1/2" TO POLE TOP
RACEWAY:	MIN 3" HH TO APER

OFFICIAL NOTICE NO. PROJECT NO.

CITY OF MILWAUKEE D.P.W.
TRANSPORTATION SECTION
INFRASTRUCTURE SERVICES DIVISION
STREET LIGHTING

J.O.# W.O.

H-17 CONCRETE HARP POLE

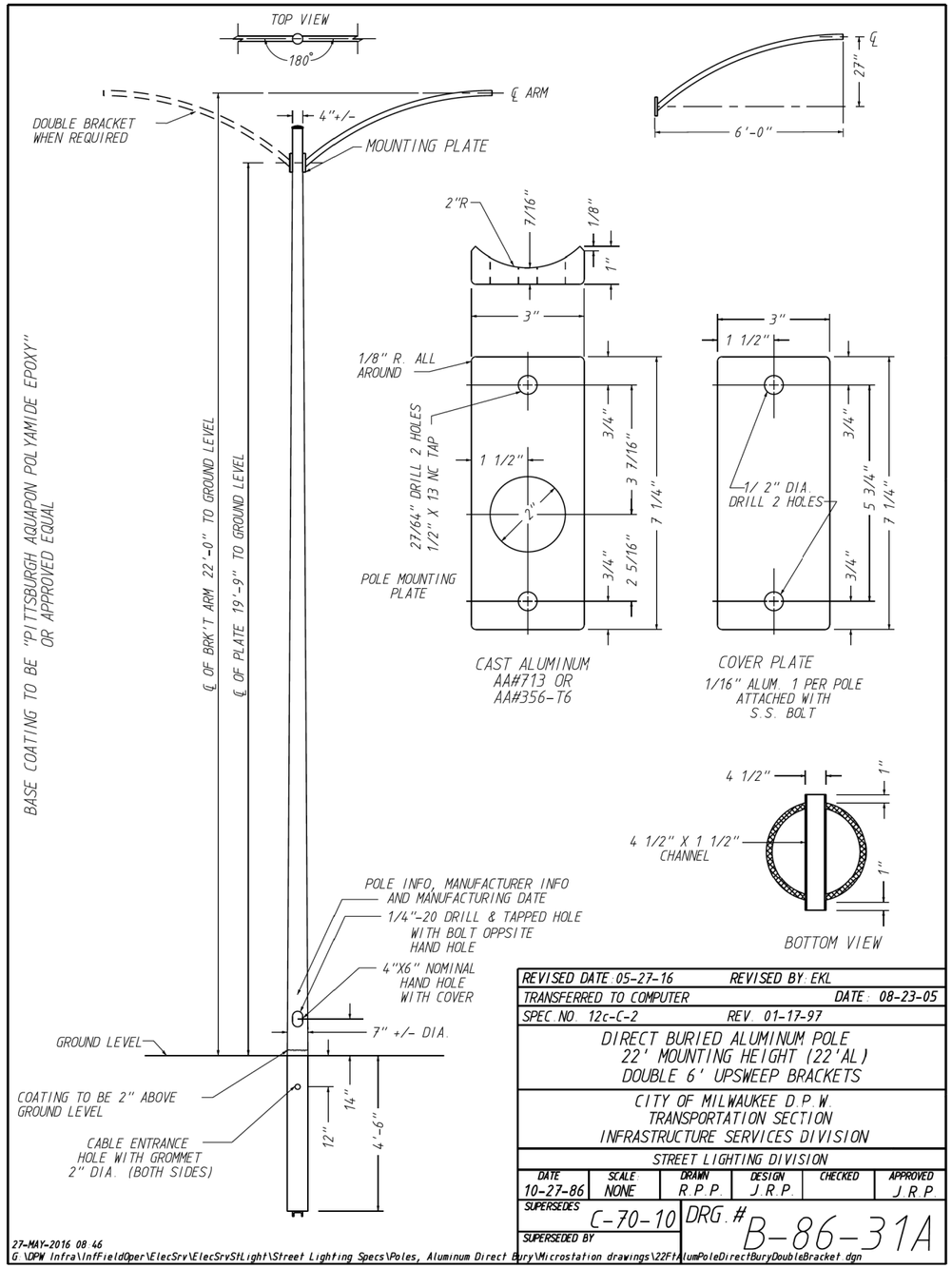
E-8386	DRAWN BY: BL	DESIGNED BY: WFH	CHECKED BY: EWB
	DATE DRAWN: 4/20/18	DATE DESIGNED:	DATE SIGNED: 4/30/18 / 4/30/18
	SCALE: NOT TO SCALE	DRG.# C-18-27 SHEET 1 OF 1	

POLES TYPE-6 (H17 CONCRETE, DIRECT BURY)
(SPV.0060.801)

SHEET 8 OF 12

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 147

E



REVISED DATE: 05-27-16	REVISED BY: EKL
TRANSFERRED TO COMPUTER	DATE: 08-23-05
SPEC NO. 12c-C-2	REV. 01-17-97

DIRECT BURIED ALUMINUM POLE
22' MOUNTING HEIGHT (22'AL)
DOUBLE 6' UPSWEEP BRACKETS

CITY OF MILWAUKEE D.P.W.
TRANSPORTATION SECTION
INFRASTRUCTURE SERVICES DIVISION

STREET LIGHTING DIVISION

DATE	SCALE	DRAWN	DESIGN	CHECKED	APPROVED
10-27-86	NONE	R.P.P.	J.R.P.		J.R.P.

SUPERSEDES C-70-10 DRG.# B-86-31A

SUPERSEDED BY

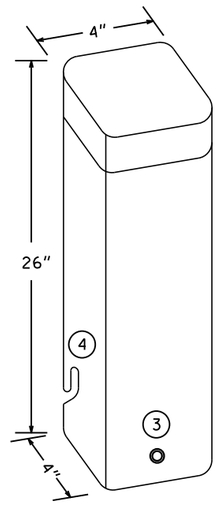
27-MAY-2016 08:46
G:\DPW Infra\InfFieldOper\ElecSrv\ElecSrvStLight\Street Lighting Specs\Poles, Aluminum Direct Bury\Microstation drawings\22FtAlumPoleDirectBuryDoubleBracket.dgn

POLES TYPE-7 (22 FT. ALUMINUM, DIRECT BURY)
(SPV.0060.315)

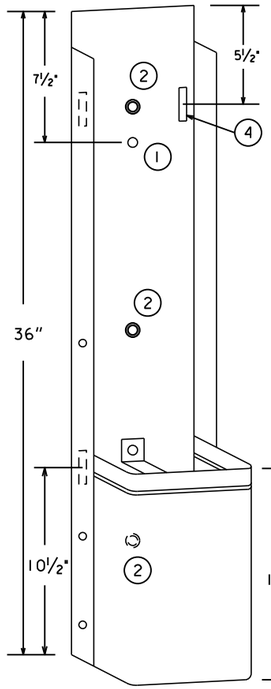
NOTES:

1. STAINLESS 1/4 X 20 X 1" CARRIAGE BOLT FOR GROUNDING IN BACK PANEL 1/2" DIA. AREA FREE OF PAINT AROUND BOLT.
2. EXTERNAL DIMPLES TO PROVIDE BACK PANEL CLEARANCE TO POLE FOR OPENING AND CLOSING UPPER PANEL.
3. RECESSED CUP PREMITS RECESSING 5/16 HEX HEAD LOCKING BOLT. THIS BOLT FITS PRESENT CITY OF MILWAUKEE TOOLING, LOCKING BOLT IS HELD IN PLACE WITH RETAING RING. THIS BOLT MAY BE REPLACED BY A SECURITY BOLT IF DESIRED.
4. 1/4 X 1-1/4" SLOT (4) FOR BANDING ACCESS.
5. DOGLEG SLOT PREVENTS PULLING COVER OUTWARD WHILE LOCKED.
6. HORIZONITAL SLOT PREVENTS PULLING COVER UPWARD WHILE LOCKED.
7. SHOULDER RIVETS PROVIDE FOR SECURITY IN UNIT WHEN USED IN CONJUNCTION WITH ITEMS 5 & 6.

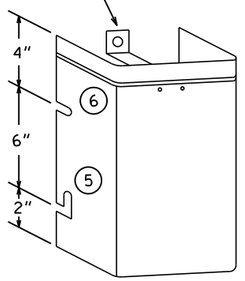
NOT TO SCALE



UPPER FRONT REMOVED



BACK PANEL WITH LOWER INSTALLED



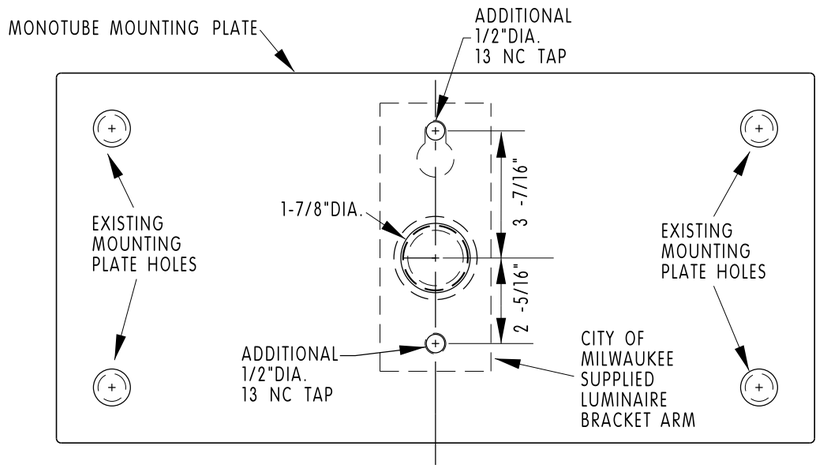
LOWER REMOVED

METAL HOUSING	
INFRASTRUCTURE SERVICES DIVISION TRAFFIC AND LIGHTING DESIGN	
JUNE 3, 2004	DRG.# B-04-07

METAL PEDESTAL CABINET 4-INCH X 4 INCH X 36 INCH
(SPV.0060.332)

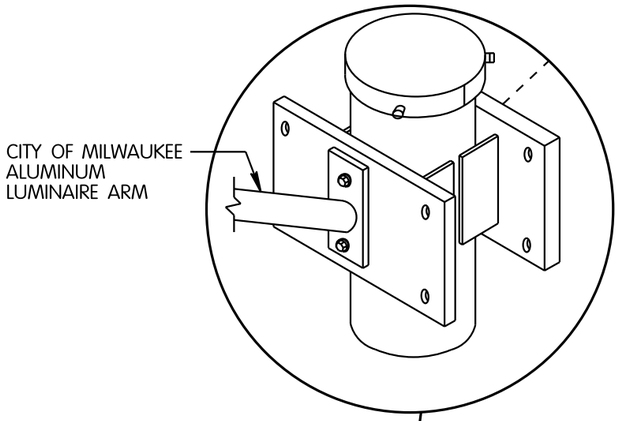
SHEET 9 OF 12

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 148	E

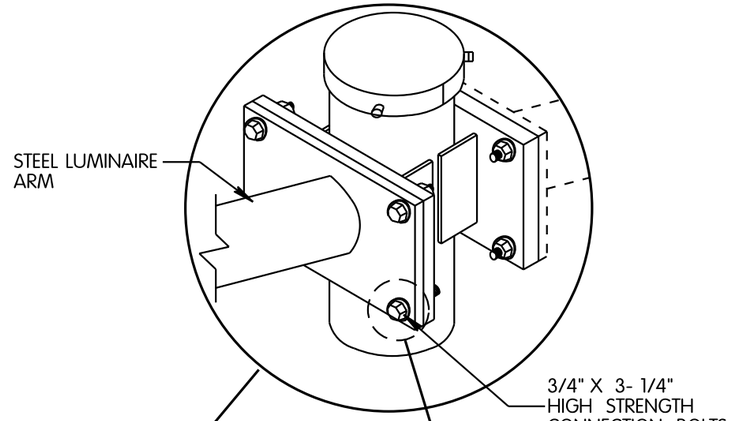


ADDITIONAL MOUNTING HOLES IN LUMINAIRE MOUNTING PLATE

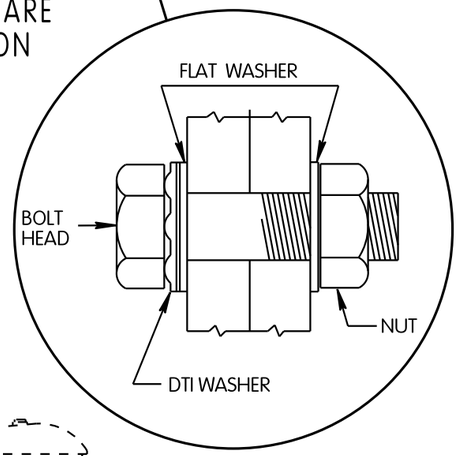
NOT TO SCALE



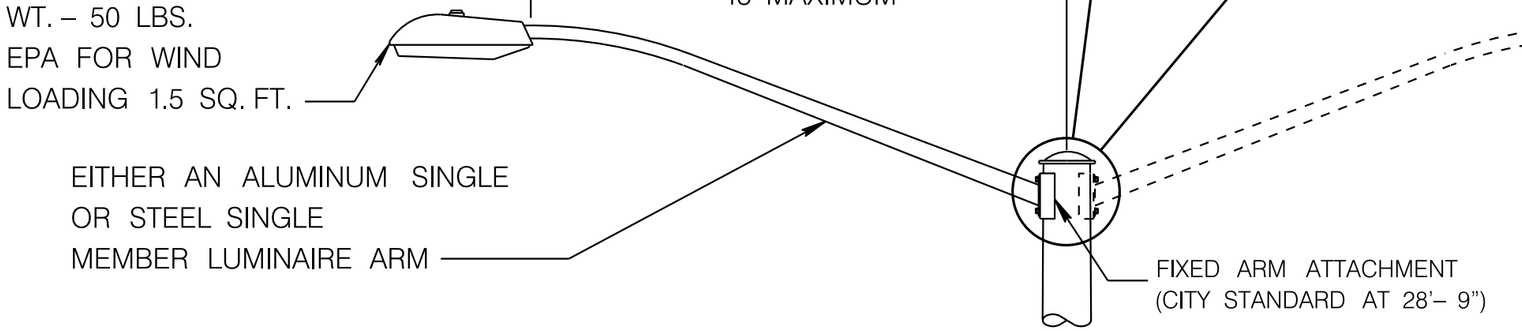
ALUMINUM LUMINIARE ARM OPTION



STEEL LUMINIARE ARM OPTION



RECOMMENDED BOLT ASSEMBLY DETAIL

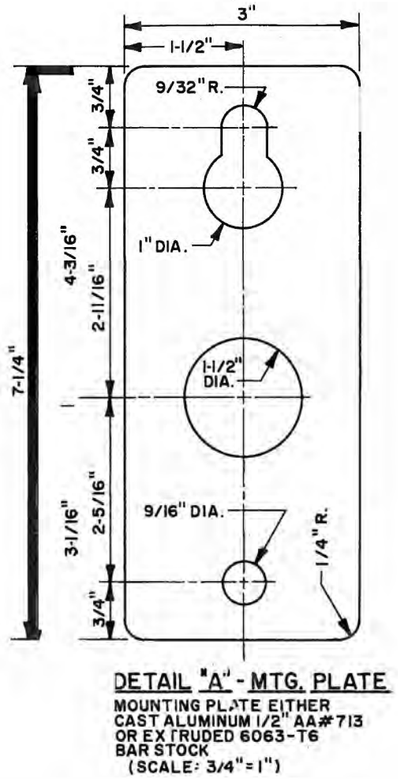


ADDITIONAL MOUNTING HOLES IN LUMINAIRE MOUNTING PLATE FOR WISDOT POLES: TYPE 10 (Bid Item: 657.1350) & TYPE 13 (Bid Item: 657.1360)

NOT TO SCALE

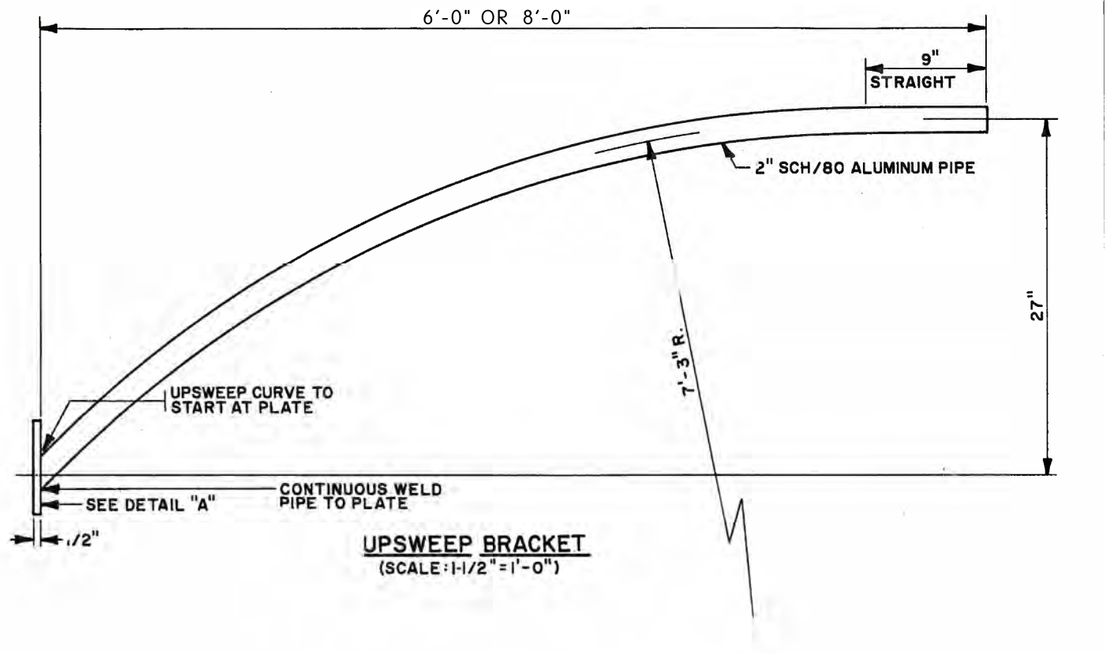
SHEET 10 OF 12

PROJECT NO: 2080–00–72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 149	E



DETAIL "A" - MTG. PLATE

MOUNTING PLATE EITHER CAST ALUMINUM 1/2" AA#713 OR EXTRUDED 6063-T6 BAR STOCK
(SCALE: 3/4"=1")



UPSWEEP BRACKET
(SCALE: 1-1/2"=1'-0")

ALUMINUM UPSWEEP BRACKET

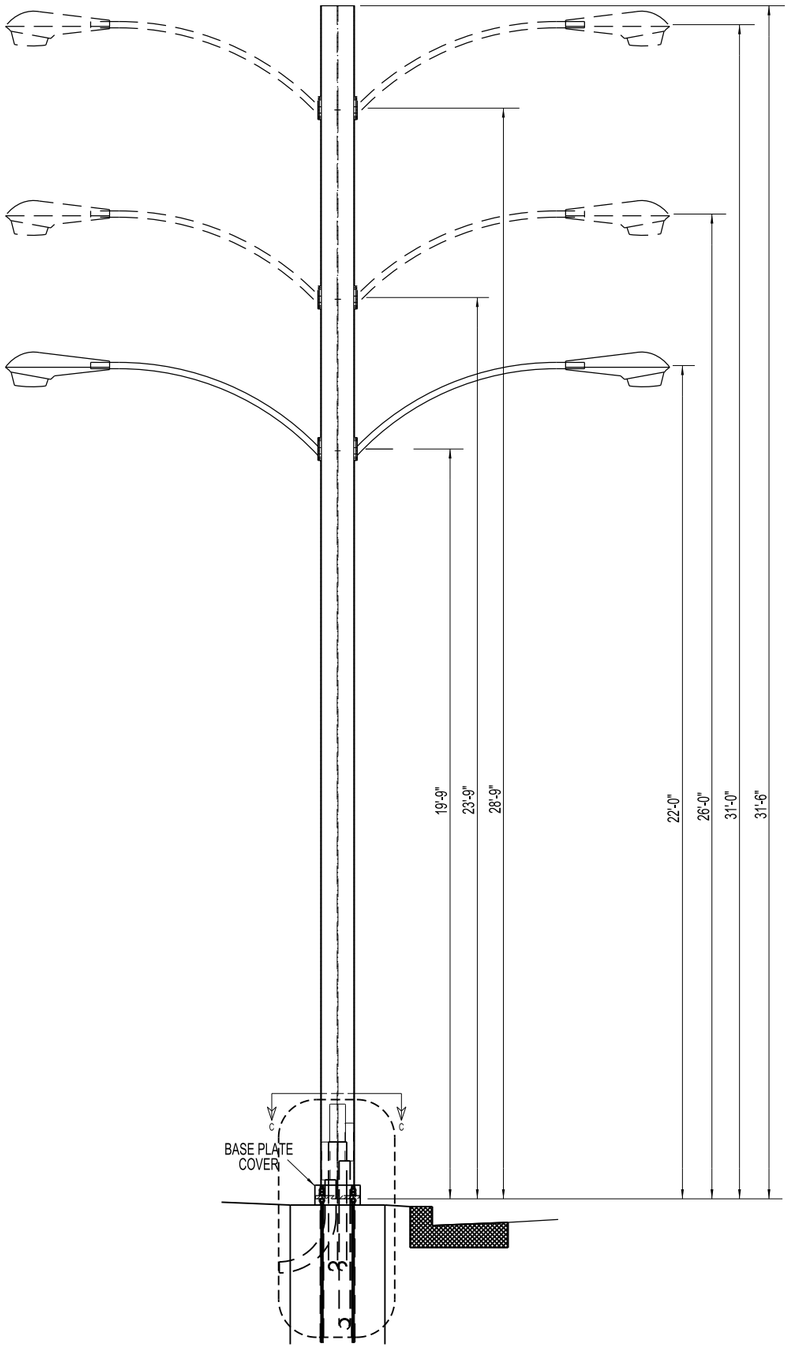
BUREAU OF TRAFFIC ENGINEERING AND ELECTRICAL SERVICES
D.P.W. CITY OF MILWAUKEE
STREET LIGHTING DIVISION

DATE	SCALE	DRAWN	DESIGN	CHECKED	APPROVED
12/07/87	SHOWN	R.P.P.			

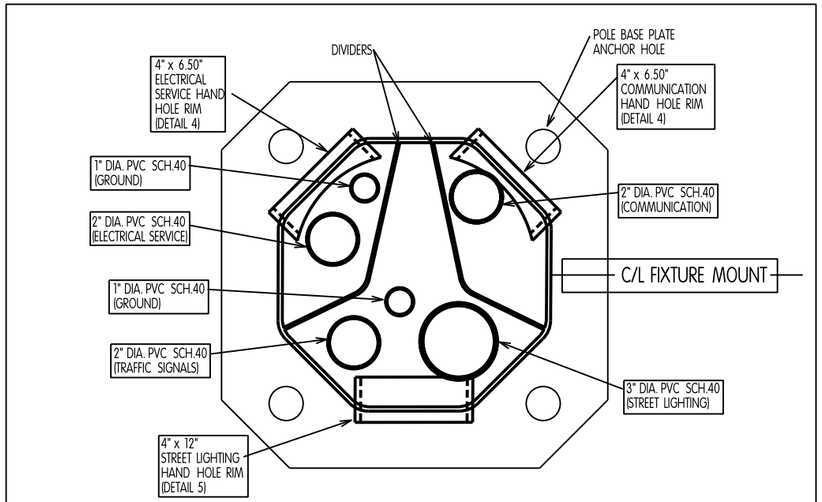
SUPERSEDES C-80-2
SUPERSEDED BY

DRG. # C-87-76

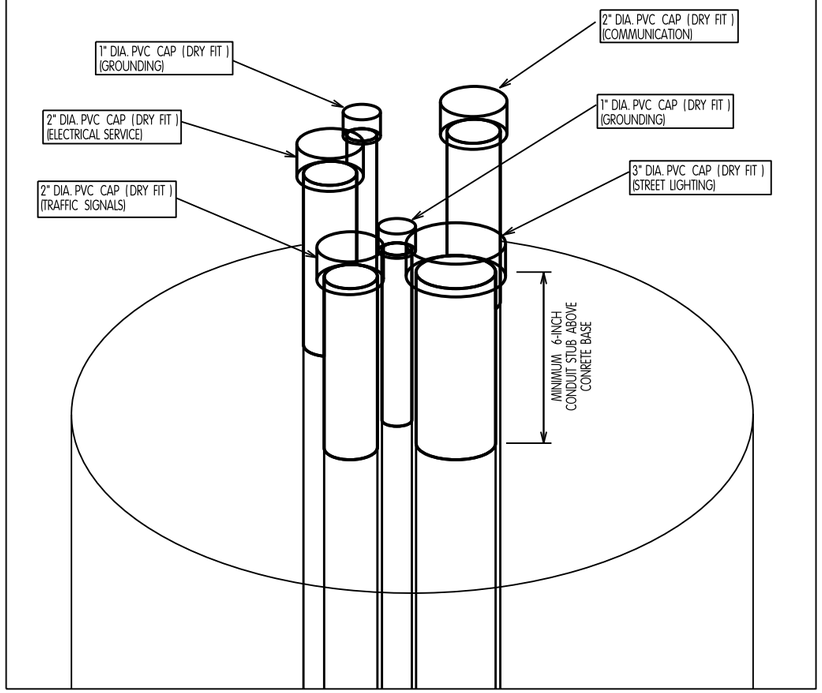
LUMINAIRE ARMS SINGLE MEMBER 6–Ft. – CITY FURNISHED
SPV.0060.838



SMALL CELL POLE
ON
2'–6" x 8' CONCRETE BASE
AT
3531 NORTH TEUTONIA AVENUE
TO BE INSTALLED PRECONSTRUCTION
BY OTHERS



PROPORTIONALLY SCALED



SHEET 12 OF 12

PROJECT NO: 2080–00–72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 151	E

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave – Groeling to Capitol (2080–00–72)\SL Conduit\SL Details.dgn PLOT DATE : 01–JUL–2019 15:18 PLOT BY : cblack PLOT NAME : PLOT SCALE : 20.000000:1.000000
WISDOT/CADDS SHEET 42

STREET LIGHTING PLAN GENERAL LEGEND

TEMPORARY LIGHTING

35' WOOD POLES WILL BE INSTALLED 2'– 4' BACK OF CURB WITH OVERHEAD CABLE ATTACHED AT TOP OF ALL STREET LIGHT POLES WITHIN THE LIMITS OF THIS PROJECT FOR PROVIDING LIGHTING.

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY THE LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

- PULLBOX INSTALLED ON STREET LIGHTING PLAN
- PULLBOX INSTALLED ON TRAFFIC SIGNAL PLANS (AT SIGNALIZED INTERSECTIONS ONLY)
- EXISTING TRAFFIC AND/OR STREET LIGHTING CONDUIT
- CONDUIT INSTALLED ON STREET LIGHTING PLAN
- CONDUIT INSTALLED ON TRAFFIC SIGNAL PLAN
- EXISTING DIRECT BURIED CONCRETE HARP LIGHT POLE MILWAUKEE HARP LUMINAIRE AND LAMP
- PROPOSED DIRECT BURIED CONCRETE HARP LIGHT POLE MILWAUKEE HARP LUMINAIRE AND SCREW IN LED LAMP
- PROPOSED DIRECT BURIED CONCRETE STREET LIGHT POLE, MILWAUKEE LANTERN ARM & LUMINAIRE AND SCREW IN LED LAMP
- EXISTING STREET LIGHT POLE
- PROPOSED BOLT DOWN STREET LIGHT POLE ON CONCRETE BASE TYPE 5 WITH TRANSFORMER BASE, BRACKET ARM & LUMINAIRE
- XX' ARM — STREET LIGHT BRACKET ARM & LUMINAIRE TO BE INSTALLED ON MONTUBE
- EXISTING TRAFFIC SIGNAL STANDARD
- PROPOSED SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE INSTALLED ON TRAFFIC SIGNAL PLAN
- TRAFFIC CONTROL CABINET BASE INSTALLED ON TRAFFIC SIGNAL PLAN
- MONOTUBE MAST ARM BASE INSTALLED ON TRAFFIC SIGNAL PLAN
- EVP DETECTOR WITH CONFORMATION LIGHT INSTALLED ON TRAFFIC SIGNAL PLAN
- XX' ARM — MAST ARM INSTALLED ON TRAFFIC SIGNAL PLAN

SHEET 1 OF 13

PROJECT NO: 2080–00–72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET OF 152	E

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SEE TRAFFIC SIGNAL PLAN FOR LOCATIONS OF POLES, PULL BOXES AND CONDUIT AT SIGNALIZED INTERSECTIONS

NORTH TEUTONIA AVENUE

W. GROELING AV.

W. CHAMBERS ST.

CHAMBERS ST.

CONNECT TO EXISTING 2.5"PVC

CONNECT TO EXISTING PULLBOX

EXISTING PB 13"X 24"X 24"

EXISTING PB 13"X 24"X 24"

#2935 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. (2018 CONSTRUCTION)

STREET LIGHTING WIRES

3#8/1#8LTP CIR.WR-N

#2946 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.150+39.7', 27.5'RT.

3#6/1#8LTP CIR.WR-N TO BE INSTALLED BY CITY FORCES

STREET LIGHT POLE REMOVAL

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE PULLBOX TO PULLBOX

PB 13"X 24"X 24" STA.151+34.8', 27.0'LT.

#2955 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.151+29.8', 27.5'LT.

3#6/1#8LTP CIR.WR-N

#2968 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.152+17.7', 27.5'RT.

3#8/1#8LTP CIR.WR-N

STREET LIGHT REMOVAL ONLY ON UTILITY POLE

#2981 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.153+08.7', 27.5'LT.

#1502 2#12UF W/GRD RISER 8' ALUM.ARM 3LED3 LUM. ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.153+84.4', 47.0'LT.

STREET LIGHT POLE REMOVAL AFTER CONSTRUCTION

#3017 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.154+86.1', 27.5'LT.

#3002 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.153+90.0', 27.8'RT.

#1430 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 2LED2 LUM. STA.50+40.4' 18.2'LT.

ONE CONDUIT BYPASSES LIGHT POLE PULLBOX TO PULLBOX RUNS PULLBOX TO PULLBOX

TO BE INSTALLED BY CITY FORCES

WE ENERGIES

TRAFFIC SIGNAL WIRES

SHEET 2 OF 13

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET OF 153	E

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave - Groeling to Capitol (2080-00-72)\SL Conduit\LTG 149-155.dgn PLOT DATE : 03-MAR-2019 18:45 PLOT BY : cblack PLOT NAME : PLOT SCALE : 40.000000:1.000000

WISDOT/CADDS SHEET 42

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SEE TRAFFIC SIGNAL PLAN FOR COMPLETE DETAILS AND LOCATIONS OF ALL MONOTUBES, SIGNAL STANDARDS PULL BOXES AND CONDUIT AT SIGNALIZED INTERSECTIONS

NORTH TEUTONIA AVENUE

N

#3017 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2.5" 24.0'LT.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2.5" 24.0'LT.

PB 13"X 24"X 24" STA.156+ 6.9',24.0'LT.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 24.0'LT.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 24.0'LT.

STA.157+ 6.2',24.0'LT.

#3043 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM.

STREET LIGHT POLE REMOVAL

3#8/1#8LTP CIR.WR-O

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 24.0'LT.

STA.158+29.2',24.0'LT.

#3063 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 24.0'LT.

PB 13"X 24"X 24" STA.158+34.2',24.0'LT.

STREET LIGHT POLE REMOVAL

3#8/1#8LTP CIR.WR-O

2-2.5" 24.0'LT.

#3075 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.159+51.9',23.6'LT.

STREET LIGHT POLE REMOVAL

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5"

3#4/1#8LTP CIR.T48N-C

3#2/1#8LTP CIR.T48N-C

#3102 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.160+57.7',27.5'RT.

STREET LIGHT POLE REMOVAL

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

#1620 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.50+31.9' 33.1'LT.

CAP END AT PAVING LIMITS

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

#3026 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.155+96.8',27.5'RT.

STREET LIGHT POLE REMOVAL

PB 13"X 24"X 24" STA.156+6.8 27.0'RT.

3#8/1#8LTP CIR.WR-O

PB 13"X 24"X 24" STA.156+73.0 30.6'RT.

#1535 POLES TYPE-7 W/GRD RISER 2#12UF 6'ALUM.ARM 2LED2 LUM. PEDESTAL STA.50+70.5' 14.2'RT.

2-3#8/1#8LTP CIR.WR-O

PB 13"X 24"X 24" STA.157+ 8.7',29.4'RT.

PB 13"X 24"X 24" STA.50+65.5' 14.0'RT.

CAP END AT PAVING LIMITS

1.5"& 2.5" TO POLE STREET LIGHT POLE REMOVAL

3#8/1#8LTP CIR.WR-O

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

PB 13"X 24"X 24" STA.158+34.2',27.0'RT.

STREET LIGHT POLE REMOVAL

3#8/1#8LTP CIR.WR-O

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PAVING LIMITS

STREET LIGHT POLE REMOVAL

#
CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.51+47.4' 26.5'RT.

STREET LIGHT POLE REMOVAL

CAP ENDS AT PAVING LIMITS

STREET LIGHT POLE REMOVAL

CAP END AT PAVING LIMITS

N. COLUMBIA ST.

N. BURLEIGH ST.

N. 16TH ST.

SHEET 3 OF 13

PROJECT NO: 2080–00–72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET OF 154	E

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave – Groeling to Capitol (2080–00–72)\SL Conduit\LTG 155–161.dgn PLOT DATE : 26–JUN–2019 15:07 PLOT BY : cblack PLOT NAME : PLOT SCALE : 40.000000:1.000000

WISDOT/CADDS SHEET 42

2

NORTH TEUTONIA AVENUE

N

2

61 162 163 164 165 166 167

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 100

STREET LIGHT POLE REMOVAL

3#2/1#8L TP CIR.T48N-C

2-2.5" 24.0'LT.

CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.161+52.8', 24.0'LT.

#3115

3#8/1#8L TP CIR.T48N-C

PB 13"X 24"X 24" STA.162+70.3', 24.0'LT. 112

2-2.5" 24.0'LT.

CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.163+38.8', 24.0'LT.

#3137

2-2.5" 24.0'LT.

2-2.5" 24.5'LT.

CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.165+24.0', 24.5'LT.

#3159

PB 13"X 24"X 24" STA.165+28.0', 24.5'LT. 112

PB 13"X 24"X 24" STA.165+89.6', 24.5'LT. 112

PB 13"X 24"X 24" STA.166+80.0', 26.5'LT. 112

2-2.5" SCH.80 100 101

2-2.5" 100

STREET LIGHTING WIRES

2-2.5" 100 ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

STREET LIGHT POLE REMOVAL

3#2/1#8L TP CIR.T48N-C

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

2-2.5" 100

CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.162+48.8', 27.5'RT.

#3126

2-2.5" 100

PB 13"X 24"X 24" STA.162+70.3', 27.2'RT. 112

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

3#2/1#8L TP CIR.T48N-C

CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.164+29.8', 27.5'RT.

#3146

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

STREET LIGHT POLE REMOVAL

3#2/1#8L TP CIR.T48N-C

PB 13"X 24"X 24" STA.165+28.0', 27.0'RT. 112

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

3#2/1#8L TP CIR.T48N-C

CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.166+16.2', 27.5'RT.

#3172

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

3#2/1#8L TP CIR.T48N-C

2-2.5"

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SHEET 4 OF 13

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET OF 155	E

NORTH TEUTONIA AVENUE

N

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5"

3#8/1#8LTP CIR.T48N-C

2-2.5" SCH.80

PB 13"X 24"X 24" STA.167+16.2',24.5'LT.

#3183 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.167+11.2',27.5'LT.

STREET LIGHT POLE REMOVAL

2-2.5" RUNS PULLBOX TO PULLBOX 24.5'LT.

3#6/1#8LTP CIR.T48N-C

PB 13"X 24"X 24" STA.169+8.2',24.5'LT.

#3217 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.169+ 1.2',24.5'LT.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 24.5'LT.

#3235 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.169+96.2',24.5'LT.

PB 13"X 24"X 24" STA.170+86.2',24.5'LT.

#3249 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.171+87.2',24.5'LT.

PB 13"X 24"X 24" STA.171+96.2',24.5'LT.

3#8/1#8LTP CIR.T48N-C

2-2.5" RUNS PULLBOX TO PULLBOX 24.5'LT.

3#6/1#8LTP CIR.T48N-C

2-2.5" SCH.80

PB 13"X 24"X 24" STA.170+86.2' 27.0'RT.

#3246 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.170+91.2',28.5'RT.

PB 13"X 24"X 24" STA.50+70.0' 17.1'RT. 4'FROM POLE

PB 13"X 24"X 24" STA.50+70.0' 16.9'LT.

2.5" CAP ENDS STA.50+75.0'

2.5" CAP END STA.51+00

#3254 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.172+82.2',27.5'RT.

PB 13"X 24"X 24" STA.171+96.2' 27.0'RT.

2-3#2/1#8LTP CIR.T48N-C

COORDINATE ELECTRICAL CONNECTION WITH CITY OF MILWAUKEE STREET LIGHTING

#1701 POLES TYPE-2 (26'CONC.) 2S2

W. RING ST.

STREET LIGHTING

STREET LIGHTING WIRES

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SHEET 5 OF 13

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET 156 OF	E

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave – Groeling to Capitol (2080-00-72)\SL Conduit\LTG 167-173.dgn PLOT DATE : 03-MAR-2019 18:45 PLOT BY : cblack PLOT NAME : PLOT SCALE : 40.000000:1.000000

WISDOT/CADDS SHEET 42

NORTH TEUTONIA AVENUE

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 24.5'LT.
3#8/1#8L TP CIR.T48N-C
STREET LIGHT POLE REMOVAL
CONC. BASE TYPE 5 TRANSFORMER BASE #3279 POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.173+77.2',24.5'LT.
3#2/1#8L TP CIR.T48N-C
2-2.5" 100 ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX
ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 24.5'LT.
PB 13"X 24"X 24" STA.174+73.7',24.2'LT.
2.5" SCH.80
ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 24.5'LT.
STREET LIGHTING WIRES
PB 13"X 24"X 24" STA.175+12.0',26.5'LT.
STREET LIGHT POLE REMOVAL
CONC. BASE TYPE 5 TRANSFORMER BASE #3303 POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.175+77.0',27.5'LT.
3#2/1#8L TP CIR.T48N-D
ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5"
PB 13"X 24"X 24" STA.177+53.0',25.0'LT.
CONC. BASE TYPE 5 TRANSFORMER BASE #3325 POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.177+63.0',25.0'LT.
STREET LIGHT POLE REMOVAL
ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 25.0'LT.
STREET LIGHTING WIRES

173 174 175 176 177 178

2.5" SCH.80
2-2.5"
ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX
2-2.5" SPECIAL SCH.80
2-2.5" SPECIAL CAP ENDS STA.50+66.1'
PB 13"X 24"X 24" STA.50+61.1' 16.9'RT.
CONC. BASE TYPE 5 TRANSFORMER BASE #3286 POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.174+70.8',27.5'RT.
PB 13"X 24"X 24" STA.174+74.8',27.0'RT.
STREET LIGHT POLE REMOVAL
STREET LIGHTING WIRES
CONC. BASE TYPE 5 TRANSFORMER BASE #1718 POLES TYPE-11 2#12UF W/GRD RISER 6'ALUM.ARM 2LED2 LUM. STA.50+31.9' 33.1'LT.
PB 13"X 24"X 24" STA.50+61.1' 17.1'LT.
STREET LIGHTING WIRES
COORDINATE ELECTRICAL CONNECTION WITH CITY OF MILWAUKEE STREET LIGHTING
POLE MOUNT ENCLOSURE T48N
W. CONCORDIA ST.
STREET LIGHT POLE REMOVAL
PB 13"X 24"X 24" STA.175+77.0',27.0'RT.
3#4/1#8L TP CIR.T48N-A
2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX
CONC. BASE TYPE 5 TRANSFORMER BASE #3310 POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.176+65.0',27.5'RT.
STREET LIGHT POLE REMOVAL
2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX
PB 13"X 24"X 24" STA.177+53.0',27.0'RT.
STREET LIGHTING WIRES
2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX
3#4/1#8L TP CIR.T48N-A
COORDINATE ELECTRICAL CONNECTION WITH CITY OF MILWAUKEE STREET LIGHTING

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SHEET 6 OF 13

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET OF 157	E

2

N

NORTH TEUTONIA AVENUE

178 179 180 181 182 183 184

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 3#2/1#8LTP CIR.T48N-D STA.178+89.0', 25.0'LT.

STREET LIGHT POLE REMOVAL

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 3#2/1#8LTP CIR.T48N-D STA.179+53.0', 25.0'LT.

#3345 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 3#2/1#8LTP CIR.T48N-D STA.180+ 8.0', 25.0'LT.

PB 13"X 24"X 24" STA.180+ 8.0', 25.0'LT.

#3407 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.180+58.0', 25.0'LT.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 3#2/1#8LTP CIR.T48N-D STA.181+ 8.0', 25.0'LT.

STREET LIGHT POLE REMOVAL

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

WE ENERGIES

PB 13"X 24"X 24" STA.181+83.0', 25.0'LT.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 3#2/1#8LTP CIR.T48N-D STA.182+66.0', 25.0'LT.

#3433 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.182+66.0', 25.0'LT.

STREET LIGHT POLE REMOVAL

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 3#2/1#8LTP CIR.T48N-D

PB 13"X 24"X 24" STA.183+74.0', 25.3'LT.

WE E

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 3#4/1#8LTP CIR.T48N-A STA.178+58.0', 27.5'RT.

#3336 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.178+58.0', 27.5'RT.

PB 13"X 24"X 24" STA.178+89.0', 27.0'RT.

#3340 POLES TYPE-2 (26' CONC.) 2LED3

INSTALL NEW PEDESTAL

3#8/1#8LTP CIR.T48N-A

2-2.5" CAP END AT PAVING LIMITS

STREET LIGHTING WIRES

N. 18TH ST.

52

3#4/1#8LTP CIR.T48N-A

COORDINATE ELECTRICAL CONNECTION TO UNIT #3402 WITH CITY OF MILWAUKEE STREET LIGHTING

PB 13"X 24"X 24" STA.180+ 8.0', 27.0'RT.

PB 13"X 24"X 24" STA.5.1+ 5.1', 17.0'RT.

2-2.5" CAP END AT STA.5.1+28.0'

#3402 POLES TYPE-1 (21' CONC.) 1LED2

INSTALL NEW PEDESTAL

PB 13"X 24"X 24" STA.5.1+ 5.1', 16.7'LT.

STREET LIGHTING WIRES

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5" 3#8/1#8LTP CIR.T48N-A STA.181+63.0' 27.5'RT.

#3418 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.181+63.0' 27.5'RT.

STREET LIGHT POLE REMOVAL

PB 13"X 24"X 24" STA.181+83.0', 27.0'RT.

STREET LIGHTING WIRES

STREET LIGHT POLE REMOVAL

3#8/1#8LTP CIR.T48N-A

STREET LIGHTING WIRES

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX STA.183+69.0', 27.5'RT.

#3446 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM.ARM 3LED3 LUM. STA.183+69.0', 27.5'RT.

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

PB 13"X 24"X 24" STA.183+74.0', 27.0'RT.

STREET LIGHT POLE REMOVAL

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SHEET 7 OF 13

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET OF 158	E

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

NORTH TEUTONIA AVENUE

N

W. KEEFE AV.

N. 19TH ST.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

2-2.5" SCH.80

3#2/1#8L TP CIR. T48N-D

3#4/1#8L TP CIR. T48N-D

3#8/1#8L TP CIR. T48N-A

3#4/1#8L TP CIR. T48N-A

3#B/1#8L TP CIR. T48N-A

STREET LIGHT POLE REMOVAL

PB 13"X 24"X 24" STA. 185+70.0', 25.5'LT.

PB 13"X 24"X 24" STA. 186+80.0', 27.0'LT.

PB 13"X 24"X 24" STA. 187+69.5' 27.0'LT.

PB 13"X 24"X 24" STA. 188+93.5', 27.0'LT.

PB 13"X 24"X 24" STA.49+41.2' 17.7' LT.

PB 13"X 24"X 24" STA.49+41.2' 18.2'RT.

CAP ENDS AT STA.49+36.6'

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

2-2.5" 25.5'LT.

ONE CONDUIT BYPASSES LIGHT POLE 2-2.5" RUNS PULLBOX TO PULLBOX

CONDUIT TO INSTALL BY CONTRACTOR

ELECTRICAL CONNECTION WITH CITY OF MILWAUKEE STREET LIGHTING

INSTALLED BY OTHERS PRECONSTRUCTION #3531 UNITI FIBER 3LED3 LUM. SMALL CELL POLE 2'-6"X 8' CONC. BASE AT EXISTING POLE LOCATION

#3459 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 184+72.0', 25.5'LT.

#3474 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 185+75.0', 27.5'RT.

#3504 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 186+75.0' 27.5'RT.

#3512 STREET LIGHT POLE REMOVAL

#3516 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 187+72.5', 27.5'RT.

#1900 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 50+35.0', 19.5'LT.

#3530 POLES TYPE-I (21' CONC.) ILED2 CONTRACTOR TO INSTALL NEW PEDESTAL

#3542 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 189+90.0', 27.5'RT.

#1818 POLES TYPE-8 (26' ALUM.) M12LED2

CONTRACTOR TO INSTALL NEW PEDESTAL

2.5" CAP END AT PAVING LIMITS OR CONNECT TO EXISTING 2.5"PVC

2.5"PVC - CAP END AT PAVING LIMITS

CAP ENDS AT PAVING LIMITS

PB 13"X 24"X 24" STA. 50+61.2', 20.0'LT.

PB 13"X 24"X 24" STA. 50+61.2' 20.0'RT.

PB 13"X 24"X 24" STA. 50+88.4', 17.0'LT

PB 13"X 24"X 24" STA. 50+88.4', 17.0'RT.

COORDINATE ELECTRICAL CONNECTION WITH CITY OF MILWAUKEE STREET LIGHTING

STREET LIGHTING WIRES

WE ENERGIES

CUC

SHEET 8 OF 13

PROJECT NO: 2080–00–72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET OF 159	E

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave – Groeling to Capitol (2080–00–72)\SL Conduit\LTG 184–190.dgn PLOT DATE : 01–JUL–2019 15:08 PLOT BY : cblack PLOT NAME : PLOT SCALE : 40.000000:1.000000

WISDOT/CADDS SHEET 42

2

NORTH TEUTONIA AVENUE

N

#1936 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 2LED2 LUM. STA. 49+35.0' 18.0' LT.

#3601 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 193+40.2', 27.5' LT.

#3635 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 195+49.2', 27.5' LT.

#3620 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 194+46.3', 27.5' RT.

#3574 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 192+30.5', 27.5' RT.

#3558 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM. STA. 191+10.5', 27.5' RT.

#1917 (21' CONC., 1LED2) POLES TYPE-1

CONTRACTOR INSTALLED NEW PEDESTAL

COORDINATE ELECTRICAL CONNECTION WITH CITY OF MILWAUKEE STREET LIGHTING

CONNECT EXISTING CONDUIT TO PULL BOX

EXISTING PVC SIZE UNKNOWN

CAP ENDS AT PAVING LIMITS

STREET LIGHTING WIRES

STREET LIGHT POLE REMOVAL

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5"

PB 13"X 24"X 24" STA. 49+40.1' 18.5' RT.

PB 13"X 24"X 24" STA. 49+40.1' 17.0' RT.

PB 13"X 24"X 24" STA. 193+59.4', 27.0' LT.

PB 13"X 24"X 24" STA. 195+41.2', 27.0' LT.

PB 13"X 24"X 24" STA. 191+88.0', 27.0' LT.

PB 13"X 24"X 24" STA. 50+69.3' 21.2' RT.

PB 13"X 24"X 24" STA. 50+69.3' 17.0' LT.

PB 13"X 24"X 24" STA. 193+59.4', 27.0' RT.

PB 13"X 24"X 24" STA. 195+41.2', 27.0' RT.

3#4/1#8LTP CIR. T48N-D

3#8/1#8LTP CIR. T48N-D

3#6/1#8LTP CIR. T48N-A

3#6/1#8LTP CIR. T48N-D

2-2.5" SCH.80

2-2.5"

WE ENERGIES

SIGN

TE&ES

CUC

MH

HW

W

G

T

E

M

190 191 192 193 194 195 196

53RD ST.

N. 19TH

N. FINN PL.

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SHEET 9 OF 13

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET 160 OF	E

2

NORTH TEUTONIA AVENUE

N. 19TH PL.

N. 49TH ST.

N. NASH ST.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5"

STREET LIGHTING WIRES

STREET LIGHT POLE REMOVAL

CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM.

#3665 STA. 197+64.2', 27.5' LT.

#3713 STA. 199+44.0', 27.5' LT.

#3648 STA. 196+52.2', 27.5' RT.

#3700 STA. 198+49.1', 27.0' RT.

#3724 STA. 200+63.0', 27.0' RT.

#1947 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-11 2#12UF W/GRD RISER 6' ALUM. ARM 1LED2 LUM. STA. 50+64.9' 19.0' RT.

PB 13"X 24"X 24" STA. 197+59.2', 27.0' LT.

PB 13"X 24"X 24" STA. 49+54.9' 12.2' RT.

PB 13"X 24"X 24" STA. 198+52.6', 27.0' LT.

PB 13"X 24"X 24" STA. 49+54.9' 12.2' LT.

PB 13"X 24"X 24" STA. 200+63.0', 27.0' LT.

PB 13"X 24"X 24" STA. 197+59.2' 27.0' RT.

PB 13"X 24"X 24" STA. 50+59.9' 17.0' RT.

PB 13"X 24"X 24" STA. 50+45.3' 17.0' LT.

PB 13"X 24"X 24" STA. 198+49.1', 27.0' RT.

PB 13"X 24"X 24" STA. 200+63.0', 27.0' RT.

3#6/1#8L TP CIR. T37N-E

3#6/1#8L TP CIR. T37N-S

3#6/1#8L TP CIR. T48N-D

2.5" SCH.80

2.5" PVC CAP ENDS PAVING LIMITS

2.5" CONNECT TO EXISTING PVC AT PAVING LIMITS

GUY POLE

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SHEET 10 OF 13

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET 161 OF	E

NORTH TEUTONIA AVENUE

N. VIENNA AV.

N. 20TH ST.

2.5"PVC CONNECT TO EXISTING PVC OR CAP END IF EXISTING PVC CANNOT BE LOCATED

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5"

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

CONNECT TO EXISTING CONDUIT

2.5"PVC CAP ENDS AT PAVING LIMITS

CAP ENDS AT PAVING LIMITS

STREET LIGHT POLE REMOVAL

STREET LIGHTING WIRES

TRAFFIC SIGNAL WIRES

ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.202+55.5', 27.5'LT.

ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.205+10.2', 27.3'LT.

ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.206+35.0', 27.5'RT.

ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.201+52.0', 27.5'LT.

ON MONOTUBE (TYPE 10 POLE) SEE TRAFFIC SIGNAL PLAN STA.203+89.0', 27.1'RT.

2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM.

#3757 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM.

#3825 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM.

#3840 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM.

#3808 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM.

#3830 2#12UF W/GRD RISER 6' ALUM. ARM 2LED3 LUM.

#3741 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 2#12UF W/GRD RISER 6' ALUM. ARM 3LED3 LUM.

#1974 CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-11 2#12UF W/GRD RISER 6' ALUM. ARM ILED2 LUM.

#3763 POLES TYPE-2 (26' CONC.) 2LED2

#2001 POLES, TYPE 1 (21' CONC.) ILED2

#1848 POLES TYP-1 (21' CONC.) LED2 LUM.

CONC. BASE TYPE 5 TRANSFORMER BASE POLES TYPE-12 6' ALUM. ARM 3LED3 LUM.

TYPE 10' BASE POLE

TYPE 25' ARM

3#6/1#8LTP CIR.ND-C

3#6/1#8LTP CIR.ND-B

3#4/1#8LTP CIR.T37N-E

3#6/1#8LTP CIR.T37N-E

3#6/1#8LTP CIR.ND-C

3#6/1#8LTP CIR.ND-B

EXISTING 3#6/1#8LTP CIR.ND-C

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SEE TRAFFIC SIGNAL PLAN FOR LOCATIONS OF POLES, PULL BOXES AND CONDUIT AT SIGNALIZED INTERSECTIONS

SHEET 11 OF 13

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET OF 162	E

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave – Groeling to Capitol (2080-00-72)\SL Conduit\LTG 201-207.dgn PLOT DATE : 26-JUN-2019 15:08 PLOT BY : cblack PLOT NAME : PLOT SCALE : 40.000000:1.000000

WISDOT/CADDS SHEET 42

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

NORTH TEUTONIA AVENUE

N. 21ST ST.

W. MELVINA ST.

N. 20TH ST.

W. MELVINA ST.

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5"

3#6/1#8LTP CIR.ND-C

CONC. BASE TYPE 5 TRANSFORMER BASE #3847 POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.207+47.7',27.5'LT.

PB 13"X 24"X 24" STA.207+52.7',27.0'LT. 112

STREET LIGHT POLE REMOVAL

3#6/1#8LTP CIR.ND-B

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

PB 13"X 24"X 24" STA.208+56.1',27.0'RT. 112

CONC. BASE TYPE 5 TRANSFORMER BASE #3868 POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.208+61.1',27.5'RT.

3#6/1#8LTP CIR.ND-B

STREET LIGHT POLE REMOVAL

2-2.5" ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX

PB 13"X 24"X 24" STA.209+54.7' 27.0'RT. 112

3#6/1#8LTP CIR.ND-B

STREET LIGHT POLE REMOVAL

ONE CONDUIT BYPASSES LIGHT POLE RUNS PULLBOX TO PULLBOX 2-2.5"

CONC. BASE TYPE 5 TRANSFORMER BASE #3883 POLES TYPE-12 2#12UF W/GRD RISER 6'ALUM.ARM 3LED3 LUM. STA.209+76.1',27.5'LT.

PB 13"X 24"X 24" STA.209+81.1' 27.0'LT. 112

3#8/1#8LTP CIR.ND-B

CONC. BASE TYPE 5 TRANSFORMER BASE #2037 POLES TYPE-11 2#12UF W/GRD RISER 6'ALUM.ARM 1LED2 LUM. STA.49+48.2' 17.7'RT.

PB 13"X 24"X 24" STA.49+43.2' 17.2'RT. 112

EXISTING 2.5" EXISTING 2" AT WALK

2.5" ENDS AT PAVING LIMITS

2.5" SCH.80

STREET LIGHT POLE REMOVAL

3#6/1#8LTP CIR.ND-B

PB 13"X 24"X 24" STA.209+54.7' 27.0'RT. 112

2.5" SCH.80

STREET LIGHT POLE REMOVAL

3#6/1#8LTP CIR.ND-B

PB 13"X 24"X 24" STA.50+59.8' 17.2'RT. 112

CONC. BASE TYPE 5 TRANSFORMER BASE #2025 POLES TYPE-11 2#12UF W/GRD RISER 6'ALUM.ARM 1LED2 LUM. STA.50+64.8' 17.7'RT.

3#4/1#8LTP CIR.ND-B

PB 13"X 24"X 24" STA.50+44.5' 16.8'LT. 112

2.5" SCH.80

STREET LIGHT POLE REMOVAL

3#6/1#8LTP CIR.ND-B

PB 13"X 24"X 24" STA.210+67.1',27.0'RT. 112 108A

#3902 POLES TYPE-2 2#12UF W/GRD RISER MILWAUKEE LANTERN TYPE IV LIGHT DISTRIBUTION S3LED (SCREW IN LAMP) PEDESTAL STA.210+62.1',27.5'RT.

1.5"& 2.5" TO POLE

#3903 POLES TYPE-6 (1)7' HARP

2" 2-2.5"

PB 13"X 24"X 24" STA.210+80.1' 27.0'LT. 112 123

#3908 POLES TYPE-6 2#12UF W/GRD RISER MILWAUKEE HARP LUMINAIRE TYPE IV LIGHT DISTRIBUTION S3LED (SCREW IN LAMP) STA.211+08.9',28.0'RT.

2" TO POLE

PB 13"X 24"X 24" STA.211+13.9',27.0'RT. 112 123

#3916 POLES TYPE-2 2#12UF W/GRD RISER MILWAUKEE LANTERN TYPE IV LIGHT DISTRIBUTION S3LED (SCREW IN LAMP) PEDESTAL STA.211+67.1',27.5'RT.

1.5"& 2.5" TO POLE

PB 13"X 24"X 24" STA.211+62.1',27.0'RT. 112 108A

3#8/1#8LTP CIR.ND-B

3#6/1#8LTP CIR.ND-B

STREET LIGHT POLE REMOVAL

3#6/1#8LTP CIR.ND-B

PB 13"X 24"X 24" STA.49+56.5',22.7'LT. 112

INSTALL 1.5"& 2.5"-TO POLE NEW PEDESTAL

OR STA.49+55.0

2.5" SPECIAL

STA.49+80.5

3#6/1#8LTP CIR.ND-B

2.5" EXISTING 2.5" EXISTING

POLES TYPE-6 (1)7' HARP #3903

PB 13"X 24"X 24" STA.49+39.9',22.4'LT. 112

EXISTING 2.5"

WITH ELECTRICAL COORDINATE THE CITY OF MILWAUKEE STREET LIGHTING

POLES TYPE-2 (2) CONC. ILED2 #3901

POLES TYPE-2 (2) CONC. ILED2 #3904

STREET LIGHTING WIRES

SHEET 12 OF 13

PROJECT NO: 2080–00–72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET 163 OF	E

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave – Groeling to Capitol (2080–00–72)\SL Conduit\LTG 207–212.dgn PLOT DATE : 01–APR–2019 13:03 PLOT BY : cblack PLOT NAME : PLOT SCALE : 40.000000:1.000000

WISDOT/CADDS SHEET 42

2

NORTH TEUTONIA AVENUE

N

W. CAPITOL DR.

N. 21ST ST.

W. CAPITOL DR.

213 214 215 216

51 52

STREET LIGHTING WIRES

TRAFFIC SIGNAL WIRES

WE ENERGIES

STREET LIGHT POLE REMOVAL

PB 13"X 24"X 24" STA.212+72.1', 27.0'LT. 1.5"& 2.5" TO POLE 108A 112

PEDESTAL STA.212+77.1', 27.5'LT. #3927 POLES TYPE-2 2#12UF W/GRD RISER MILWAUKEE LANTERN TYPE IV LIGHT DISTRIBUTION S3LED (SCREW IN LAMP)

3#6/1#8LTP CIR.ND-B 112 123

PB 13"X 24"X 24" STA.213+49.1', 27.0'LT. 2" TO POLE 123 112

3#6/1#8LTP CIR.ND-C 112

#3933 POLES TYPE-6 2#12UF W/GRD RISER MILWAUKEE HARP LUMINAIRE TYPE IV LIGHT DISTRIBUTION S3LED (SCREW IN LAMP) STA.213+54.1', 28.0'LT.

PB 13"X 24"X 24" STA.213+82.0', 27.0'LT. 112

#3945 POLES TYPE-6 2#12UF W/GRD RISER MILWAUKEE HARP LUMINAIRE TYPE IV LIGHT DISTRIBUTION S3LED (SCREW IN LAMP) STA.214+45.0', 28.0'LT.

PB 13"X 24"X 24" STA.214+50.0', 27.0'LT. 2" TO POLE 123 112

PB 13"X 24"X 24" STA.214+50.0', 27.0'LT. 1.5"& 2.5" TO POLE 108A 112

#3959 POLES TYPE-2 2#12UF W/GRD RISER MILWAUKEE LANTERN TYPE IV LIGHT DISTRIBUTION S3LED (SCREW IN LAMP) PEDESTAL STA.215+07.2', 27.5'LT.

CAP END STA.215+50.0'

2.5" SCH.80 112

2.5" 100 101

3#6/1#8LTP CIR.ND-B

3#8/1#8LTP CIR.ND-B

PB 13"X 24"X 24" STA.213+82.0' 27.0'RT. 1.5"& 2.5" TO POLE 112 108A

PB 13"X 24"X 24" STA.213+87.1', 27.5'RT. 1.5" & 2.5" TO POLE 108A

#3942 POLES TYPE-2 2#12UF W/GRD RISER MILWAUKEE LANTERN TYPE IV LIGHT DISTRIBUTION S3LED (SCREW IN LAMP) PEDESTAL STA.213+87.1', 27.5'RT.

PB 13"X 24"X 24" STA.213+93.5', 27.0'RT. 112 123 2" TO POLE

#3938 POLES TYPE-6 (17'HARP)

PB 13"X 24"X 24" STA.214+50.5', 18.9'RT. 108A

#3964 POLES TYPE-2 2#12UF W/GRD RISER MILWAUKEE LANTERN TYPE IV LIGHT DISTRIBUTION S2LED (SCREW IN LAMP) PEDESTAL STA.214+40.0', 19.4'RT.

CAP ENDS AT PAVING LIMITS

PB 13"X 24"X 24" STA.215+07.1', 37.8'RT. 112

#3966 POLES TYPE-6 (17'CONC.HARP)

COORDINATE WORK WITH CITY OF MILWAUKEE STREET LIGHTING CONNECT TO EXISTING CONDUIT

ALL PVC IS SCH.40 (SCHEDULE 40) EXCEPT WHEN NOTED AS SCH.80. (SCHEDULE 80 PVC IS USED AT ALL LOCATIONS CROSSING UNDER ROADWAYS.

SHEET 13 OF 13

PROJECT NO: 2080-00-72	HWY: TEUTONIA AVENUE	COUNTY: MILWAUKEE	STREET LIGHTING CONDUIT PLAN	SHEET OF 164	E

2

LEGEND

- PVC CONDUIT SCHEDULE 80
- PVC CONDUIT SCHEDULE 40
- STREET LIGHT LUMINAIRE
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE INSTALLED BY CITY
- CONTROL CABINET
- TYPE I CONCRETE BASE WITH PEDESTAL BASE
- TYPE 5 CONCRETE BASE WITH TRANSFORMER BASE
- MONOTUBE MAST ARM BASE
- MAST ARM (XX' ARM) SIGNAL HEAD LOCATION
- EVP DETECTOR LOCATION ON MAST ARM (XX' ARM)
- VIDEO DETECTION CAMERA ON MAST ARM (XX' ARM)
- 13"X24"X24" PULL BOX
- 17"X30"X24" PULL BOX
- 000 SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION

N

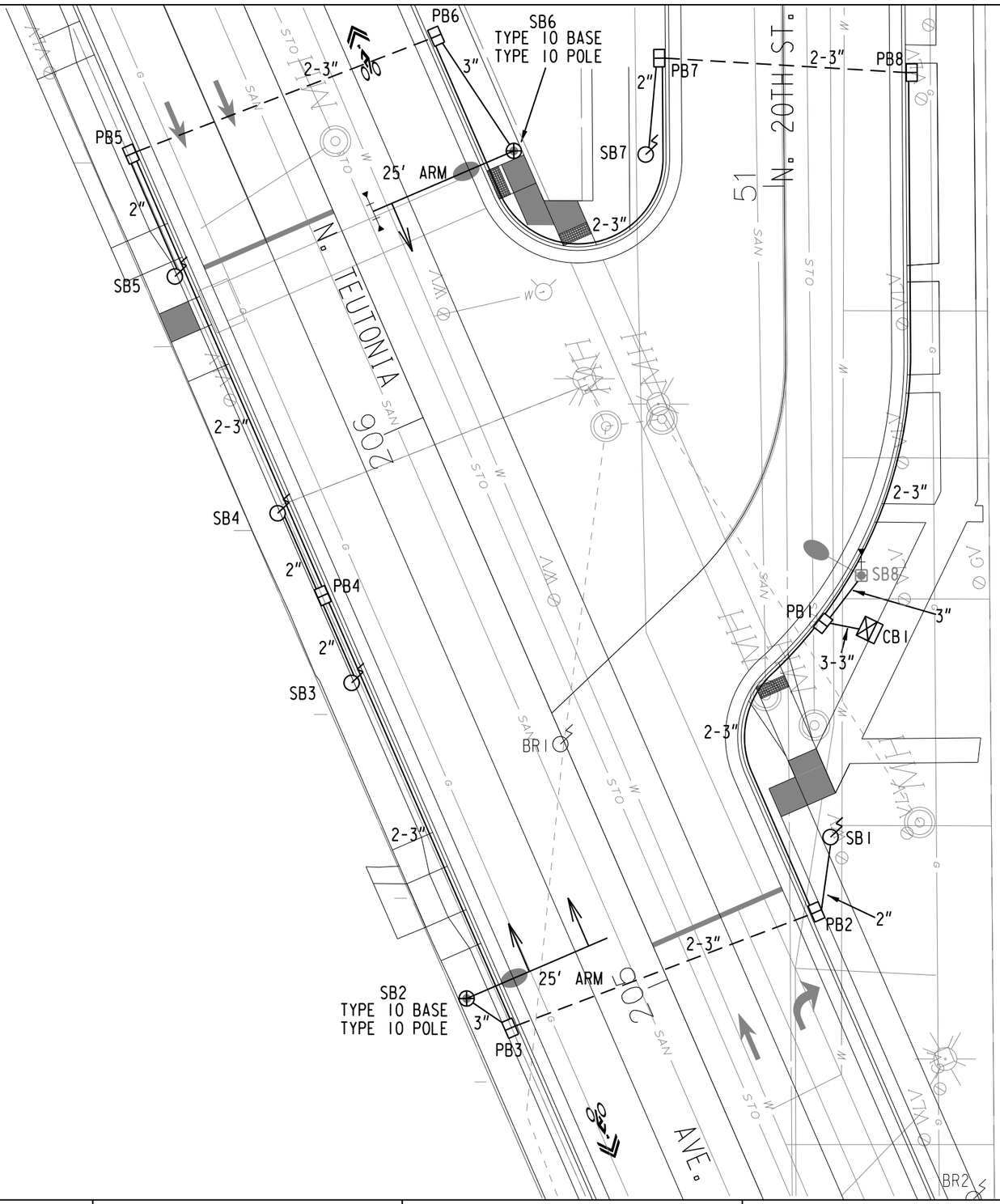
SB3 S40-2015
SB7 S40-2016

PB4
3"
SB3
TYPE 10 BASE
TYPE 10 POLE
2-3" 25' ARM
2-3"
PB3
2"
SB2
3"
SB1
3"
2-3"
PB2
3"
CB1
PB1
3-3"
2-3"
PB11
2"
SB8
2-3"
PB10
3"
SB7
TYPE 10 BASE
TYPE 10 POLE
2-3"
PB9
90°
20' ARM
SB4
2"
PB5
2-3"
SB5
2"
SB6
PB6
2"
2-3"
2-3"
PB7
2-3"
PB8
CAP END AT PAVING LIMIT
W. VIENNA AVE.
N. TEUTONIA AVE.
N. 20TH ST.
49
51
203
90°

TRAFFIC CONTROL SIGNAL
NORTH TEUTONIA AVENUE
& NORTH 20TH STREET (SOUTH LEG)
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY
MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW PAGE 1
REVISED BY:

SCALE, FEET 0 20

PROJECT NO: 2080-00-72	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 165	E



LEGEND

- PVC CONDUIT SCHEDULE 80
- PVC CONDUIT SCHEDULE 40
- STREET LIGHT LUMINAIRE
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE INSTALLED BY CITY
- CONTROL CABINET
- TYPE I CONCRETE BASE WITH PEDESTAL BASE
- TYPE 5 CONCRETE BASE WITH TRANSFORMER BASE
- MONOTUBE MAST ARM BASE
- MAST ARM
- SIGNAL HEAD LOCATION (XX' ARM)
- EVP DETECTOR LOCATION ON MAST ARM (XX' ARM)
- VIDEO DETECTION CAMERA ON MAST ARM (XX' ARM)
- 13"X24"X24" PULL BOX
- 17"X30"X24" PULL BOX
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION (000)

N

SB2 S40-2013
SB6 S40-2014

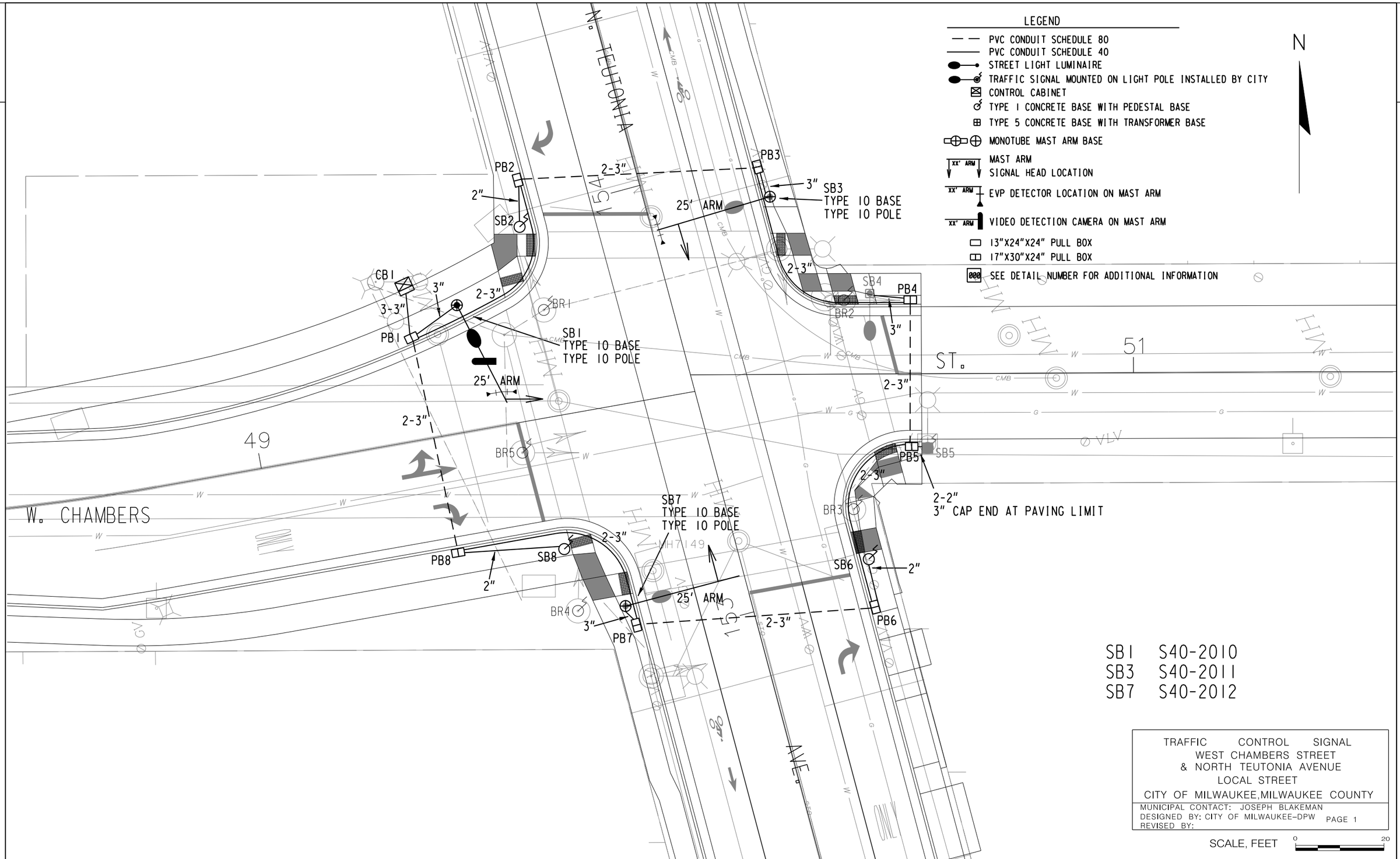
TRAFFIC CONTROL SIGNAL
NORTH TEUTONIA AVENUE
& NORTH 20TH STREET (NORTH LEG)
LOCAL STREET
CITY OF MILWAUKEE, MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW
REVISED BY:
PAGE 1

SCALE, FEET 0 20

PROJECT NO: 2080-00-72	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 166	E

2



SB1 S40-2010
SB3 S40-2011
SB7 S40-2012

TRAFFIC CONTROL SIGNAL
WEST CHAMBERS STREET
& NORTH TEUTONIA AVENUE
LOCAL STREET
CITY OF MILWAUKEE, MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW
REVISED BY:

PAGE 1

SCALE, FEET 0 20

PROJECT NO: 2080-00-72	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 167	E

2

N

N. TEUTONIA AVE.

W. BURLEIGH ST.

PB5
2-3"
3"
SB5
TYPE 10 BASE
TYPE 10 POLE
30' ARM
PB4
2"
BR2
BR3
SB6
3"
PB6
2-3"
SB4
2-3"
SB3
2-3"
51
52
2"
SB2
2"
PB3
BR1
2-3"
PB7
2-3"
2"
BR4
CAP END
159+58; 43.0' RT
SB8
2"
PB1
CB1
3-3"
SB1
TYPE 10 BASE
TYPE 10 POLE
20' ARM
2-3"
3"
PB2

SB1 S40-2008
SB5 S40-2009

LEGEND

- PVC CONDUIT SCHEDULE 80
- PVC CONDUIT SCHEDULE 40
- STREET LIGHT LUMINAIRE
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE INSTALLED BY CITY
- CONTROL CABINET
- TYPE 1 CONCRETE BASE WITH PEDESTAL BASE
- TYPE 5 CONCRETE BASE WITH TRANSFORMER BASE
- MONOTUBE MAST ARM BASE
- MAST ARM
- SIGNAL HEAD LOCATION ON MAST ARM
- EVP DETECTOR LOCATION ON MAST ARM
- VIDEO DETECTION CAMERA ON MAST ARM
- 13"X24"X24" PULL BOX
- 17"X30"X24" PULL BOX
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION

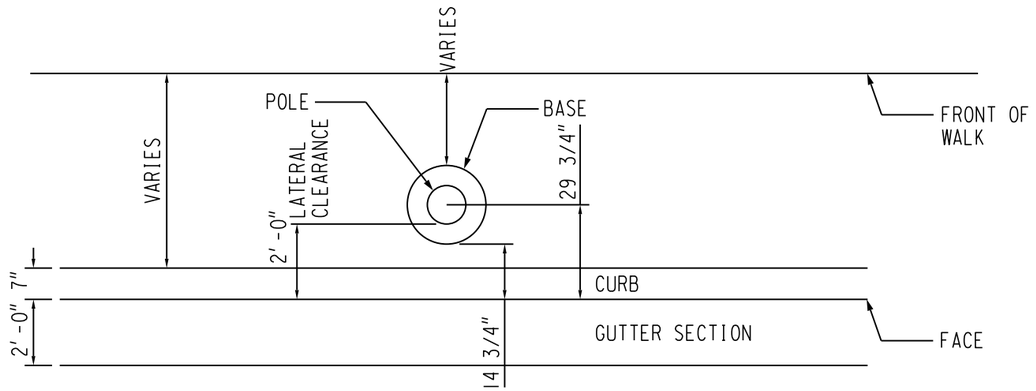
TRAFFIC CONTROL SIGNAL
WEST BURLEIGH STREET
& NORTH TEUTONIA AVENUE
LOCAL STREET
CITY OF MILWAUKEE, MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW PAGE 1
REVISED BY:

SCALE, FEET 0 20

PROJECT NO: 2080-00-72	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 168	E

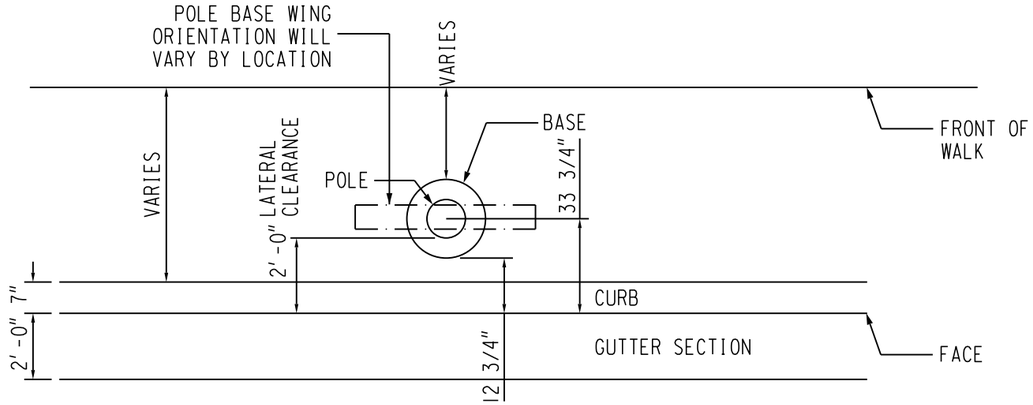
FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects-LFA\Preliminary Engineering\2080-00-92 Teutonia Groeling to Capitol\2080-00-72_Signals_60.dgn PLOT DATE : 11-APR-2019 10:00 PLOT BY : jbondo PLOT NAME : PLOT SCALE : 20.000000:1.000000 WISDOT/CADDS SHEET 42



MAST ARM POLE BASE INSTALLATION DETAIL

30" DIAMETER BASE
TYPE 10 BASE

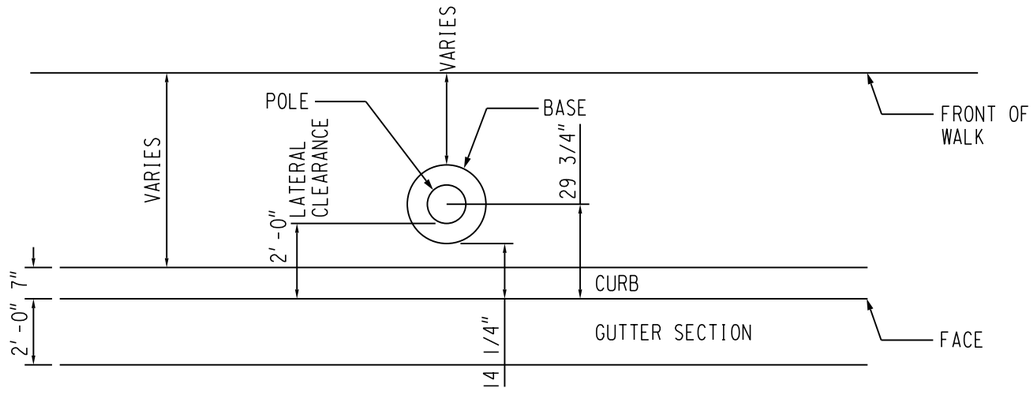
11.50" DIAMETER POLE
TYPE 9 POLE
TYPE 10 POLE
TYPE 10 SPECIAL POLE



MAST ARM POLE BASE INSTALLATION DETAIL

42" DIAMETER BASE
TYPE 13 BASE

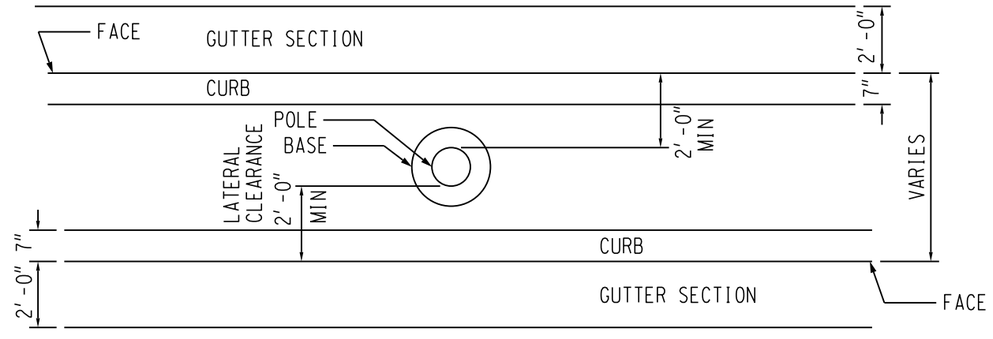
19.50" DIAMETER POLE
TYPE 12 POLE
TYPE 13 POLE



MAST ARM POLE BASE INSTALLATION DETAIL

36" DIAMETER BASE
TYPE 10 SPECIAL BASE

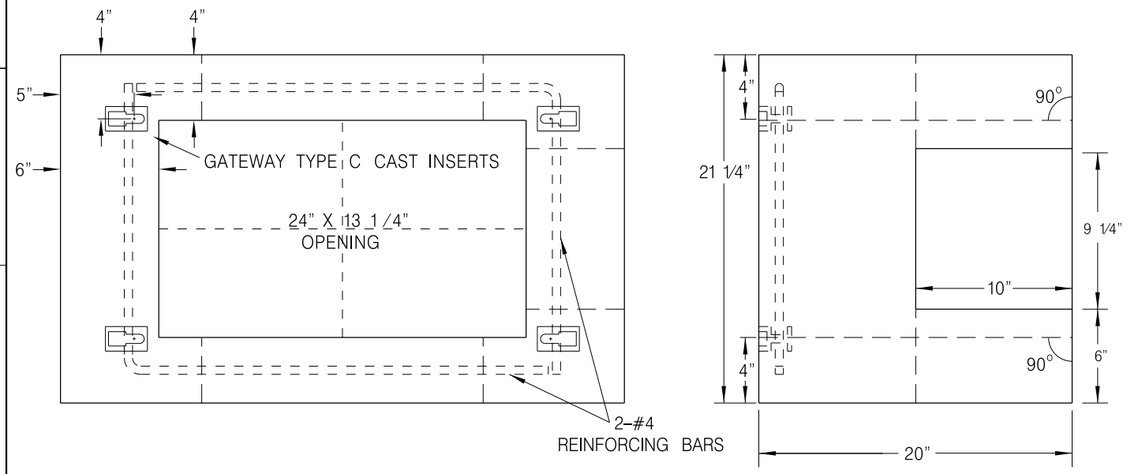
16.50" DIAMETER POLE
TYPE 12 SPECIAL POLE
TYPE 13 SPECIAL POLE

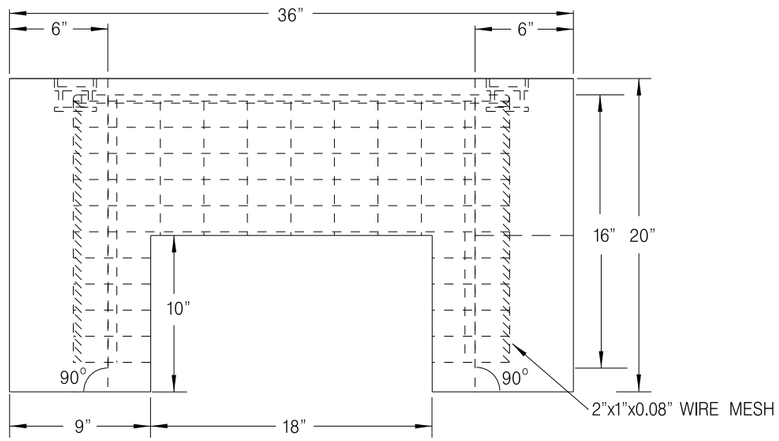


MAST ARM POLE BASE INSTALLATION DETAIL FOR MEDIAN

30" DIAMETER BASE
TYPE 10 BASE

11.50" DIAMETER POLE
TYPE 9 POLE
TYPE 10 POLE





NOT TO SCALE

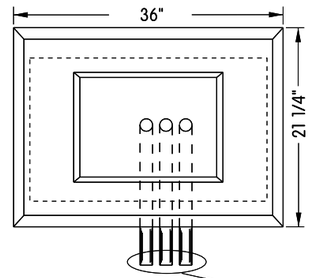
6 BAG MIX #1 STONE

COMM. CODE XXXX-XXX PRE-CAST CONCRETE FOUNDATION TRAFFIC SIGNAL CABINETS P1 AND P2				
TRAFFIC ENGINEERING AND ELECTRICAL SERVICES D.P.W. CITY OF MILWAUKEE				
TRAFFIC CONTROL MATERIAL				
DATE 8-30-16	SCALE N.T.S.	DRAWN JAB/JO	CHECKED SCR	APPROVED JCB
SUPERSEDES	REVISED DATE	DRG.		
SUPERSEDED BY	NEW DRG.	C-16-500-T		

125 DETAIL

TYPICAL TRAFFIC CONTROL CABINET CONCRETE FOUNDATION

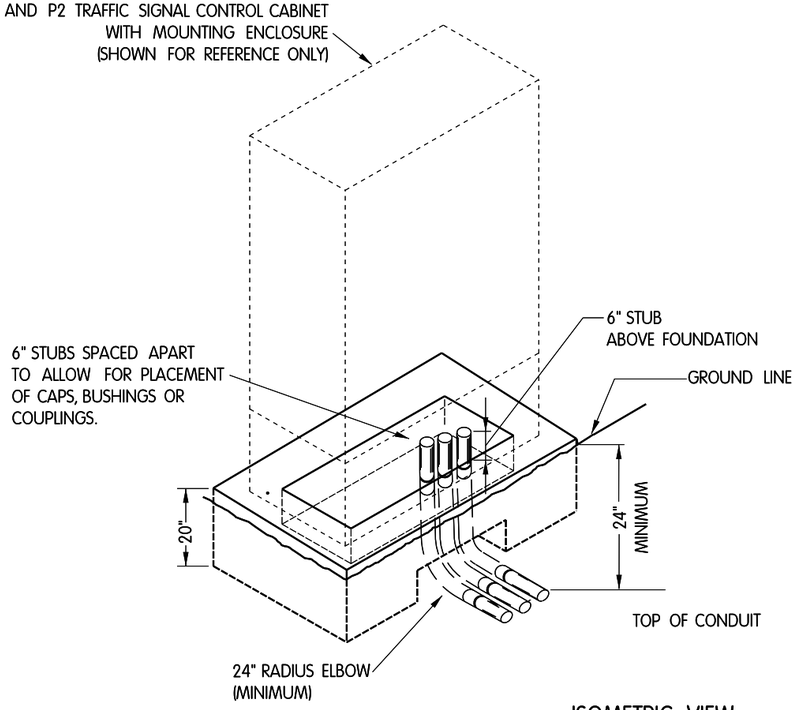
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM TRAFFIC SIGNAL FORCES.
CONTACT DISPATCHER AT (414) 286-3687 FOR SHOP SUPERVISOR.



NOTE:
CONDUIT SHOWN ON PLAN INCIDENTAL. REFER TO STREET LIGHTING AND TRAFFIC SIGNAL CONDUIT PLAN FOR THE QUANTITY & SIZE OF CONDUIT REQUIRED IN THE CONCRETE CONTROL CABINET BASE

PLAN VIEW

STYLE P1 AND P2 TRAFFIC SIGNAL CONTROL CABINET WITH MOUNTING ENCLOSURE (SHOWN FOR REFERENCE ONLY)



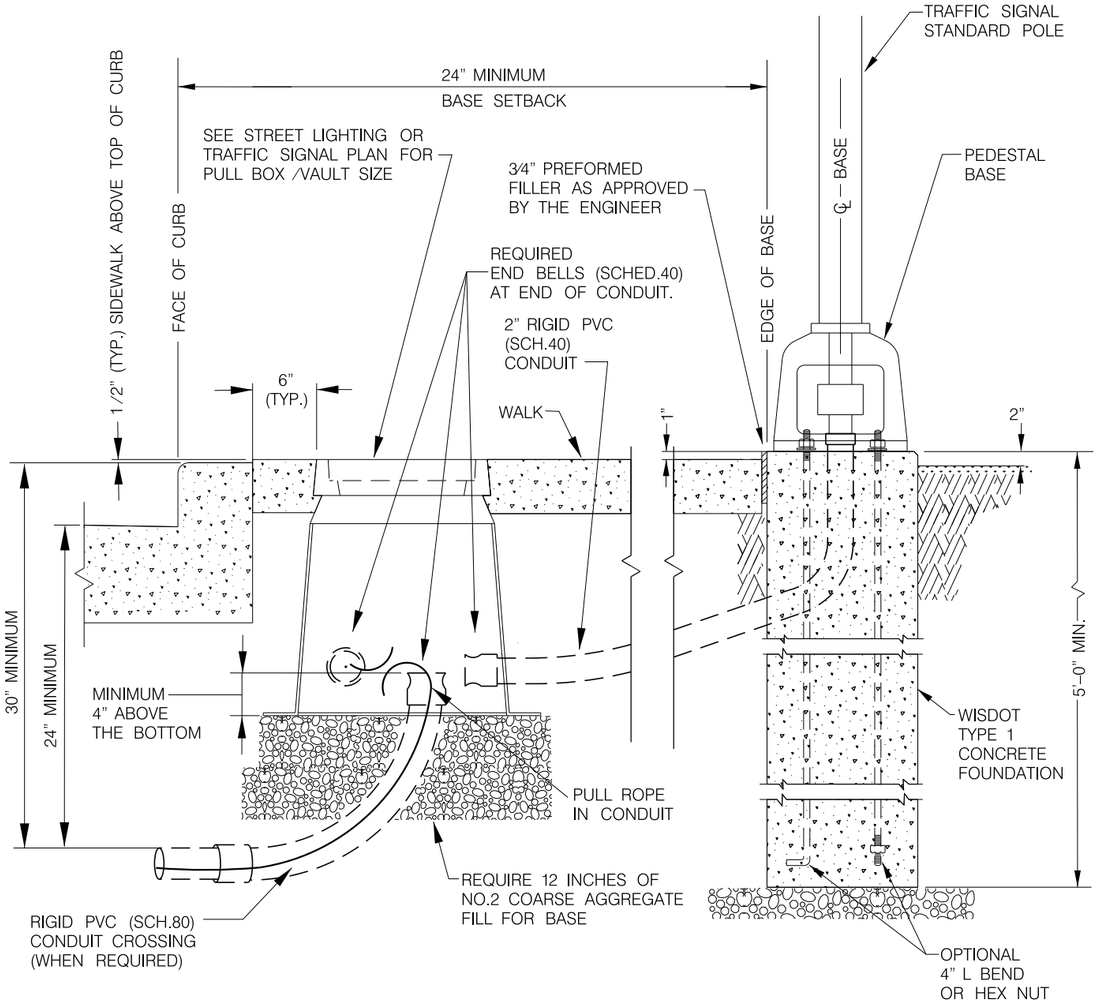
ISOMETRIC VIEW

125B TYPICAL DETAIL

CONDUIT INSTALLATION TO TRAFFIC CONTROL CABINET CONCRETE FOUNDATION

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM CITY OF MILWAUKEE D.P.W.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

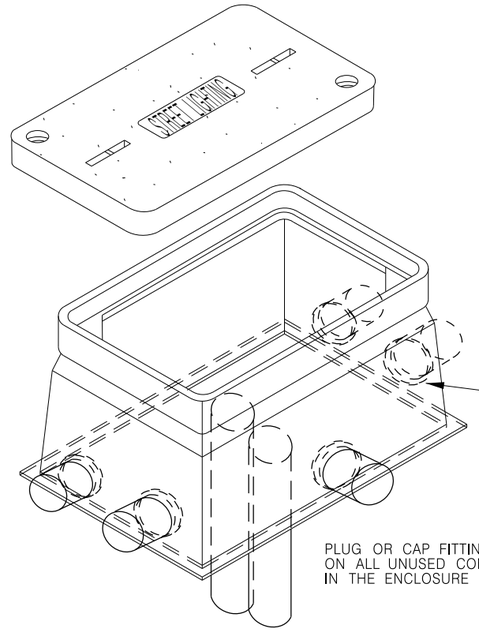


109 DETAIL

TYPICAL CONDUIT INSTALLATION FROM PULL BOX /VAULT TO SIGNAL STANDARD AND TYPICAL BASE INSTALLATION

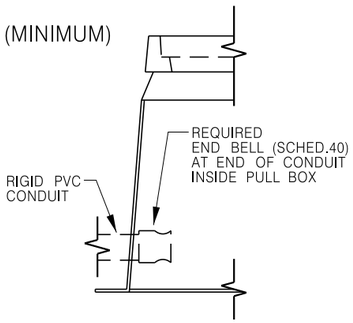
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

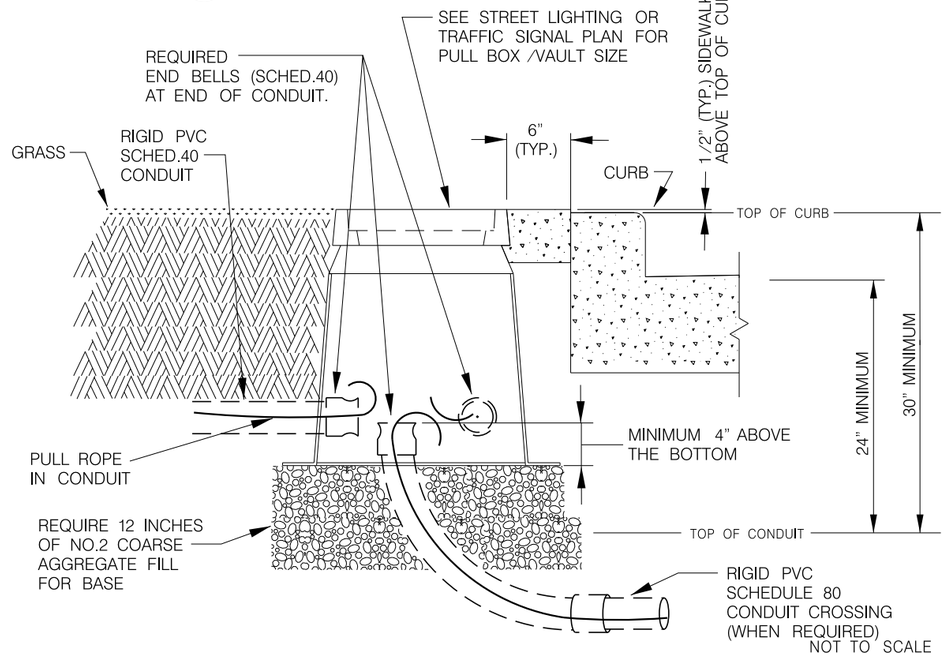
NOT TO SCALE



HEAVY DUTY COVER
W/ STREETLIGHTING LOGO
& W /2 BOLTS
COLOR: GRAY
TIER 15 RATING (MINIMUM)

PULL BOX /VAULT
FLARED WALL
BOX W /NO BASE
COLOR: GRAY
TIER 15 RATING (MINIMUM)
(VARIOUS SIZES)





NOT TO SCALE

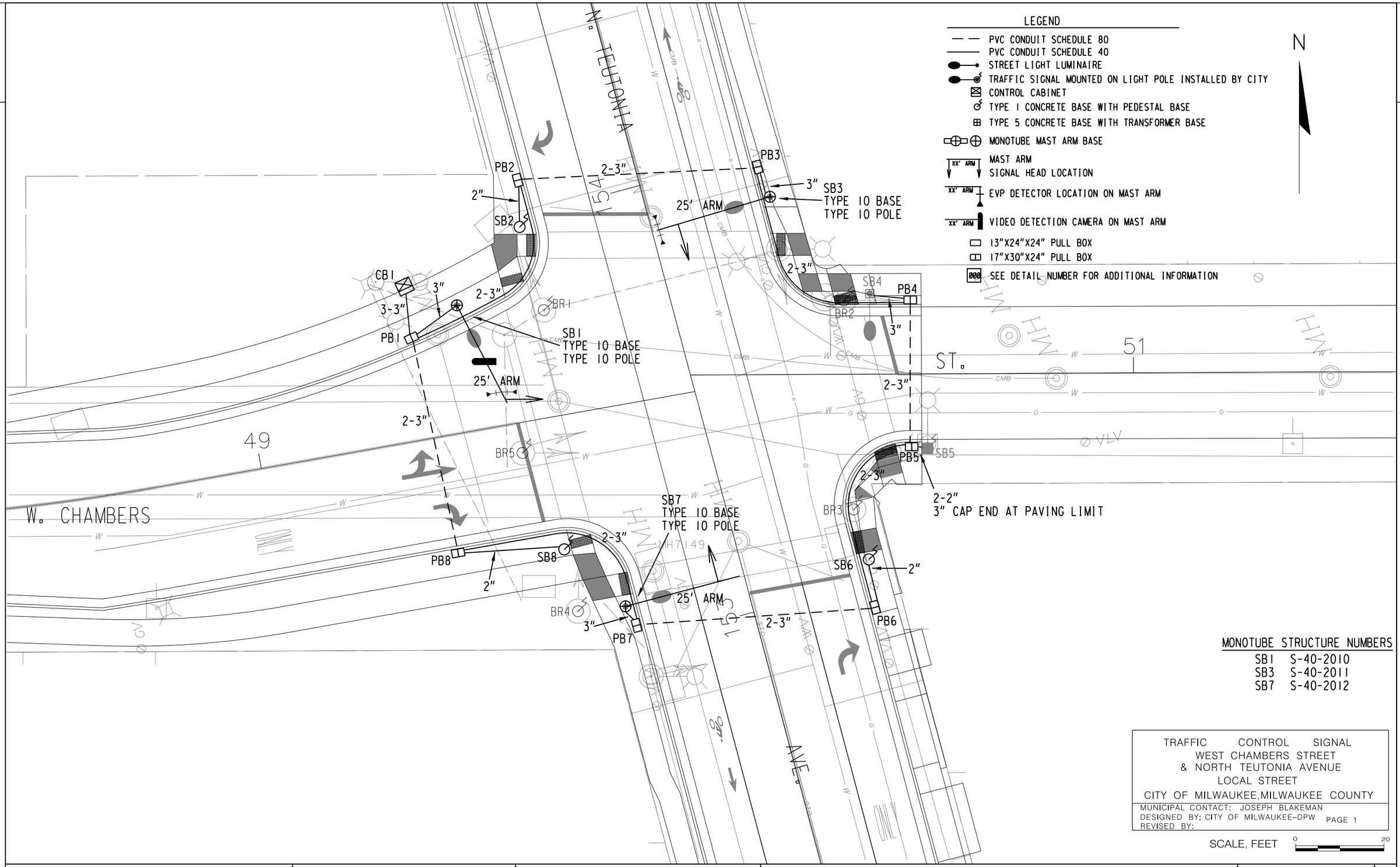
112 DETAIL

TYPICAL PULL BOX /VAULT INSTALLATION IN EITHER PAVEMENT OR GRASS AREAS

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE

2



PROJECT NO: 2080-00-72	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 172	E

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects-LFA\Preliminary Engineering\2080-00-92 Teutonia Groeling to Capitol\2080-00-72_Signals_90.dgn
PLOT DATE : 12-JUN-2019 09:49
PLOT BY : jbondo
PLOT NAME :
PLOT SCALE : 20.000000:1.000000
WISDOT/CADDS SHEET 42

2

PULLBOX LOCATIONS

PB#	LOCATION
PB1	153+80;58.5'LT
PB2	154+08;26.5'LT
PB3	153+97;26.8'RT
PB4	153+59;52.5'RT
PB5	153+27;44.2'RT
PB6	152+94;26.7'RT
PB7	153+04;26.5'LT
PB8	153+30;61.2'LT

BASE LOCATIONS

BASE#	LOCATION
CB1	153+92.0;57.5'LT
SB1	153+84.4;47.0'LT
SB2	153+97.9;28.7'LT
SB3	153+90.0;27.8'RT
SB6	153+04.8;28.2'RT
SB7	153+08.7;27.5'LT
SB8	153+24.8;37.8'LT

BASE REMOVAL LOCATIONS

BASE#	LOCATION
BR1	153+78;28.3'LT
BR2	153+63;37.9'RT
BR3	153+17;27.8'RT
BR4	153+10;38.4'LT
BR5	153+48;41.3'RT

TRAFFIC CONTROL SIGNAL
WEST CHAMBERS STREET
& NORTH TEUTONIA AVENUE
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW PAGE 2
REVISED BY:

SCALE, FEET 0 20

PROJECT NO: 2080-00-72	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 173	E

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects-LFA\Preliminary Engineering\2080-00-92 Teutonia Groeling to Capitol\2080-00-72_Signals_90.dgn PLOT DATE : 12-JUN-2019 09:50 PLOT BY : jbondo PLOT NAME : PLOT SCALE : 20.000000:1.000000
WISDOT/CADDS SHEET 42

2

N

N. TEUTONIA AVE.

W. BURLEIGH ST.

PB5
2-3"
3"
PB4
2"
BR2
SB4
2-3"
SB5
TYPE 10 BASE
TYPE 10 POLE
25' ARM
BR3
SB6 3"
PB6
2-3"
SB3
2"
SB2
2"
PB3
BR1
2-3"
2-3"
PB7
2"
BR4
CAP END
159+58; 43.0' RT
SB8
2"
PB1
CB1
3-3"
SB1
TYPE 10 BASE
TYPE 10 POLE
20' ARM
2-3"
3"
PB2

160

161

51

52

18" CMB

15" CMB

LEGEND

- PVC CONDUIT SCHEDULE 80
- PVC CONDUIT SCHEDULE 40
- STREET LIGHT LUMINAIRE
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE INSTALLED BY CITY
- CONTROL CABINET
- TYPE 1 CONCRETE BASE WITH PEDESTAL BASE
- TYPE 5 CONCRETE BASE WITH TRANSFORMER BASE
- MONOTUBE MAST ARM BASE
- MAST ARM
- SIGNAL HEAD LOCATION ON MAST ARM
- EVP DETECTOR LOCATION ON MAST ARM
- VIDEO DETECTION CAMERA ON MAST ARM
- 13"X24"X24" PULL BOX
- 17"X30"X24" PULL BOX
- 000 SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION

MONOTUBE STRUCTURE NUMBERS

SB1	S-40-2008
SB5	S-40-2009

TRAFFIC CONTROL SIGNAL
WEST BURLEIGH STREET
& NORTH TEUTONIA AVENUE
LOCAL STREET
CITY OF MILWAUKEE, MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW
REVISED BY:
PAGE 1

SCALE, FEET 0 20

PROJECT NO: 2080-00-72	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 174	E

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects-LFA\Preliminary Engineering\2080-00-92 Teutonia Groeling to Capitol\2080-00-72_Signals_90.dgn
PLOT DATE : 12-JUN-2019 09:52
PLOT BY : jbondo
PLOT NAME :
PLOT SCALE : 20.000000:1.000000
WISDOT/CADDS SHEET 42

2

PULLBOX LOCATIONS

PB#	LOCATION
PB1	159+30;26.7'RT
PB2	159+33;21.0'RT
PB3	160+06;24.0'LT
PB4	160+79;26.7'LT
PB5	160+78;26.6'RT
PB6	160+33;54.0'RT
PB7	159+67;56.0'RT

BASE LOCATIONS

BASE#	LOCATION
CB1	159+30;34.0'RT
SB1	159+38.9;23.6'LT
SB2	160+08;31.6'LT
SB3	160+35;31.6'LT
SB4	160+56;31.6'LT
SB5	160+57.7;27.5'RT
SB8	159+42;28.0'RT

BASE REMOVAL LOCATIONS

BASE#	LOCATION
BR1	159+91;26.9'LT
BR2	160+68;27.3'LT
BR3	160+55;28.1'RT
BR4	159+63;30.1'RT

TRAFFIC CONTROL SIGNAL
WEST BURLEIGH STREET
& NORTH TEUTONIA AVENUE
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW
REVISED BY:

PAGE 2

SCALE, FEET 0 20

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects-LFA\Preliminary Engineering\2080-00-92 Teutonia Groeling to Capitol\2080-00-72_Signals_90.dgn PLOT DATE : 12-JUN-2019 09:53 PLOT BY : jbondo PLOT NAME : PLOT SCALE : 20.000000:1.000000

WISDOT/CADDS SHEET 42

2

LEGEND

- PVC CONDUIT SCHEDULE 80
- PVC CONDUIT SCHEDULE 40
- STREET LIGHT LUMINAIRE
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE INSTALLED BY CITY
- CONTROL CABINET
- TYPE I CONCRETE BASE WITH PEDESTAL BASE
- TYPE 5 CONCRETE BASE WITH TRANSFORMER BASE
- MONOTUBE MAST ARM BASE
- MAST ARM (XX' ARM) SIGNAL HEAD LOCATION
- EVP DETECTOR LOCATION ON MAST ARM
- VIDEO DETECTION CAMERA ON MAST ARM
- 13"X24"X24" PULL BOX
- 17"X30"X24" PULL BOX
- 000 SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION

N

PB4 3" SB3 TYPE 10 BASE TYPE 10 POLE
2-3"
25' ARM
2"
SB4
2-3"
PB3
2"
SB2
3"
N. TEUTONIA
BRI
SB1
3"
2-3"
SB5
2"
PB5
2-3"
90°
PB2
W. VIENNA
49
2-3"
3"
CB1
PB1
3-3"
PB11
2"
2-3"
SB8
SB9 2"
PB10
3"
20' ARM
SB7 TYPE 10 BASE TYPE 10 POLE
2-3"
N. 20TH ST.
203
SB6
PB6
2"
2"
2-3"
CAP END AT PAVING LIMIT
51
AVE.
2-3"
PB7
2-3"
PB8
PB9
2-3"
AVE.

MONOTUBE STRUCTURE NUMBERS

SB3 S-40-2015
SB7 S-40-2016

TRAFFIC CONTROL SIGNAL
NORTH TEUTONIA AVENUE
& NORTH 20TH STREET (SOUTH LEG)
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW PAGE 1
REVISED BY:

SCALE, FEET 0 20

PROJECT NO: 2080-00-72	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 176	E

2

PULLBOX LOCATIONS

PB#	LOCATION
PB1	203+08;98.4'LT
PB2	203+38;77.0'LT
PB3	203+96;26.5'LT
PB4	203+95;26.7'RT
PB5	203+19;26.6'RT
PB6	202+82;43.7'RT
PB7	202+46;51.1'RT
PB8	202+22;26.3'RT
PB9	202+25;27.0'LT
PB10	202+66;27.6'LT
PB11	202+75;42.7'LT

BASE LOCATIONS

BASE#	LOCATION
CB1	203+10;102.6'LT
SB2	203+88;28.0'LT
SB3	203+89;27.1'RT
SB4	203+71;27.5'RT
SB5	203+25;27.9'RT
SB6	202+87;32.5'RT
SB7	202+55.5;27.5'LT
SB8	202+71;46.5'LT
SB9	202+70;28.7'LT

BASE REMOVAL LOCATIONS

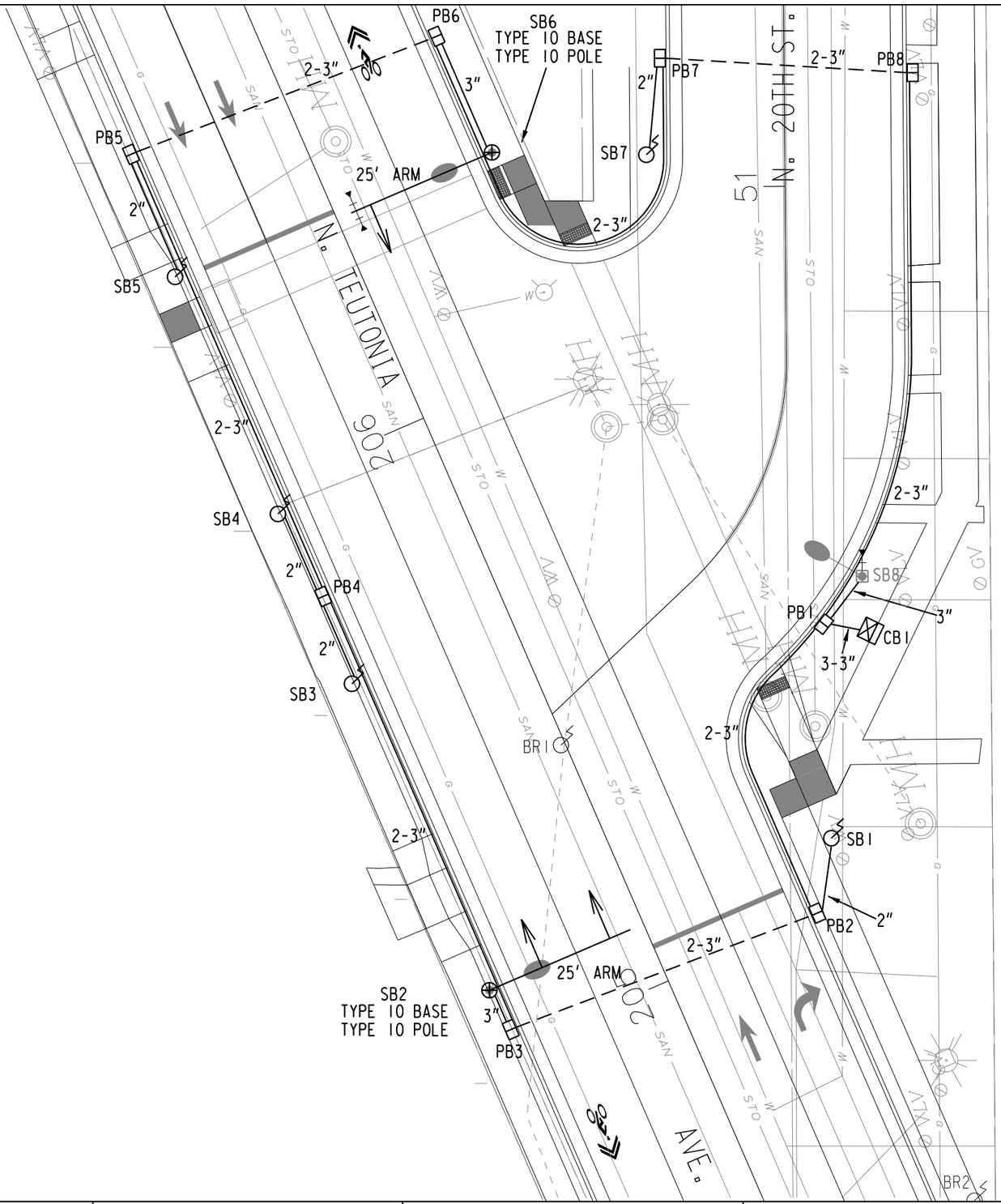
BASE#	LOCATION
BR1	203+70;01'LT

TRAFFIC CONTROL SIGNAL
NORTH TEUTONIA AVENUE
& NORTH 20TH STREET (SOUTH LEG)
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE–DPW PAGE 2
REVISED BY:

SCALE, FEET 0 20

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects–LFA\Preliminary Engineering\2080–00–92 Teutonia Groeling to Capitol\2080–00–72_Signals_90.dgn PLOT DATE : 08–JUL–2019 09:59 PLOT BY : jbondo PLOT NAME : PLOT SCALE : 20.000000:1.000000
WISDOT/CADDS SHEET 42



LEGEND

- PVC CONDUIT SCHEDULE 80
- PVC CONDUIT SCHEDULE 40
- STREET LIGHT LUMINAIRE
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE INSTALLED BY CITY
- CONTROL CABINET
- TYPE 1 CONCRETE BASE WITH PEDESTAL BASE
- TYPE 5 CONCRETE BASE WITH TRANSFORMER BASE
- MONOTUBE MAST ARM BASE
- MAST ARM
- SIGNAL HEAD LOCATION
- EVP DETECTOR LOCATION ON MAST ARM
- VIDEO DETECTION CAMERA ON MAST ARM
- 13"X24"X24" PULL BOX
- 17"X30"X24" PULL BOX
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION

N

MONOTUBE STRUCTURE NUMBERS

SB2	S-40-2013
SB6	S-40-2014

TRAFFIC CONTROL SIGNAL
NORTH TEUTONIA AVENUE
& NORTH 20TH STREET (NORTH LEG)
LOCAL STREET
CITY OF MILWAUKEE, MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW PAGE 1
REVISED BY:

SCALE, FEET 0 20

PROJECT NO: 2080-00-72	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 178	E

2

PULLBOX LOCATIONS

PB#	LOCATION
PB1	205+43;46.5'RT
PB2	205+01;26.6'RT
PB3	205+03;26.7'LT
PB4	205+80;26.7'LT
PB5	206+58;26.7'LT
PB6	206+56;26.8'RT
PB7	206+38;58.7'RT
PB8	206+20;95.6'RT

BASE LOCATIONS

BASE#	LOCATION
CB1	205+40;52.6'RT
SB1	205+11;33.6'RT
SB2	205+10.2;27.3'LT
SB3	205+65;28.0'LT
SB4	205+95;28.0'LT
SB5	206+37;28.0'LT
SB6	206+35;27.5'RT
SB7	206+25;50.4'RT

BASE REMOVAL LOCATIONS

BASE#	LOCATION
BR1	205+42;01.0'LT
BR2	204+47;31.5'RT

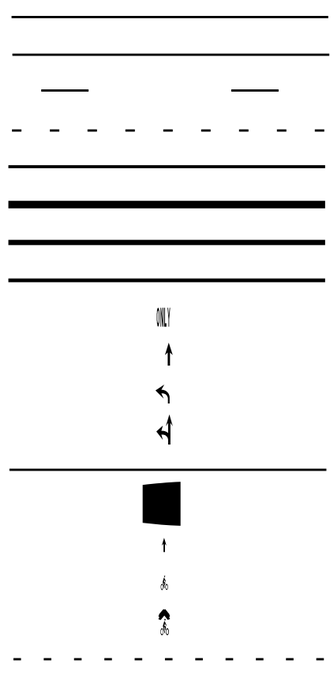
TRAFFIC CONTROL SIGNAL
NORTH TEUTONIA AVENUE
& NORTH 20TH STREET (NORTH LEG)
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY

MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE–DPW PAGE 2
REVISED BY:

SCALE, FEET 0 20

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects–LFA\Preliminary Engineering\2080–00–92 Teutonia Groeling to Capitol\2080–00–72_Signals_90.dgn PLOT DATE : 12–JUN–2019 09:57 PLOT BY : jbondo PLOT NAME : PLOT SCALE : 20.000000:1.000000
WISDOT/CADDS SHEET 42

LEGEND



1 MARKING LINE EPOXY 4-INCH (YELLOW)

2 MARKING LINE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (YELLOW)
(10 FT LINE 30 FT SKIP)

4 MARKING LINE EPOXY 4-INCH (DOT PATTERN WHITE)
(2 FT LINE 6 FT SKIP)

6 MARKING LINE EPOXY 6-INCH (WHITE)

8 MARKING LINE STOP LINE EPOXY 24-INCH (WHITE)

9 MARKING LINE CROSSWALK EPOXY 12-INCH (WHITE)

10 MARKING LINE EPOXY 8-INCH (WHITE)

14 MARKING WORD EPOXY (WHITE)

15 MARKING ARROW EPOXY TYPE 1(WHITE)

16 MARKING ARROW EPOXY TYPE 2 (WHITE)

17 MARKING ARROW EPOXY TYPE 3 (WHITE)

20 MARKING CURB EPOXY (YELLOW)

21 MARKING ISLAND NOSE EPOXY (YELLOW)(SEE DETAIL)

34 MARKING ARROW BIKE LANE EPOXY (WHITE)

35 MARKING SYMBOL BIKE LANE EPOXY (WHITE)

74 MARKING BIKE SYMBOL FOR SHARED USED LANE EPOXY (WHITE)

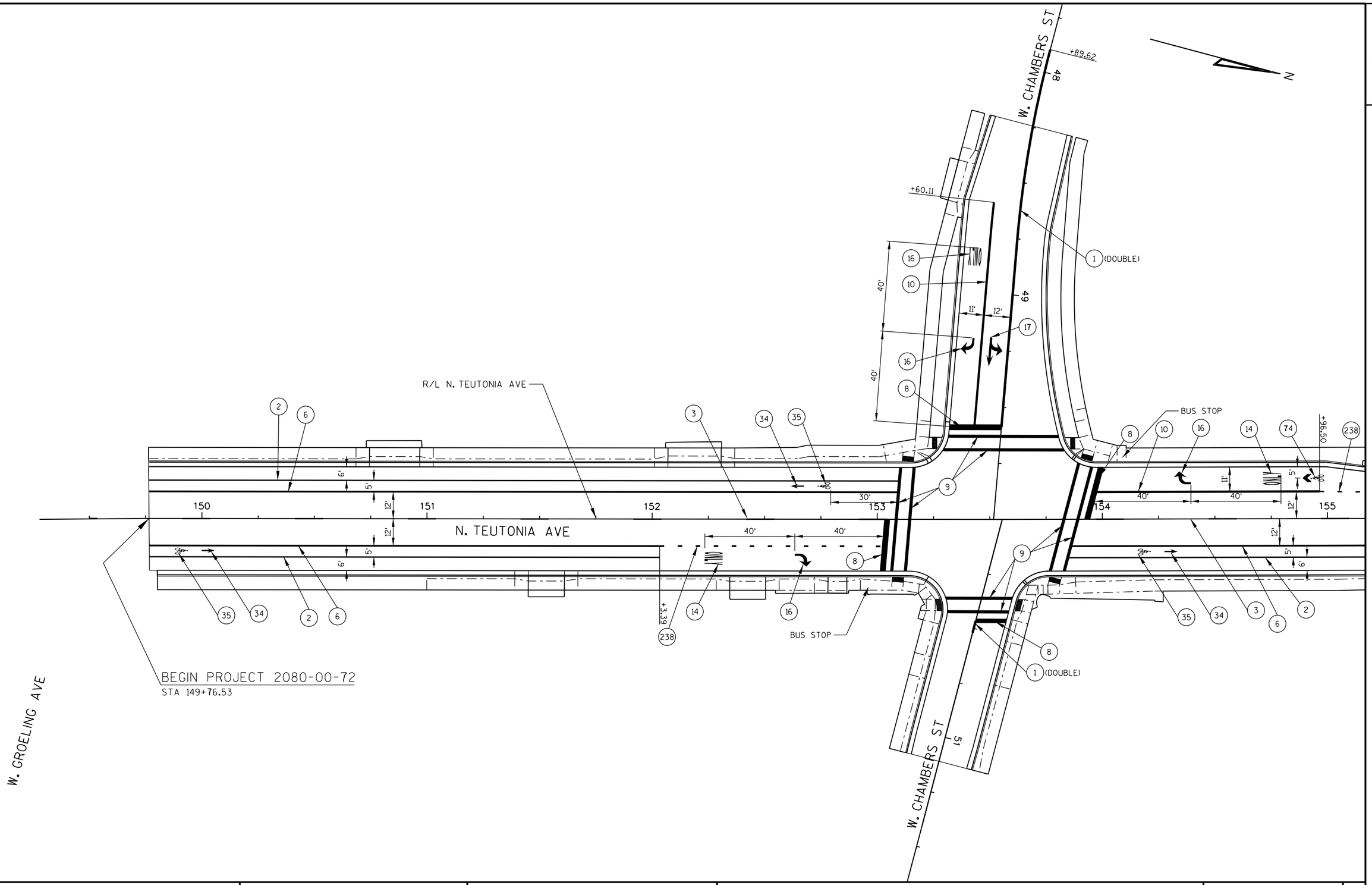
238 MARKING LINE EPOXY 6-INCH (DASHED WHITE)
(2 FT LINE 6 FT SKIP)

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - LEGEND	SHEET 180	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\024500_PM.dgn PLOT DATE : 10/3/2019 PLOT BY : nstyka PLOT NAME : PLOT SCALE : 1:40

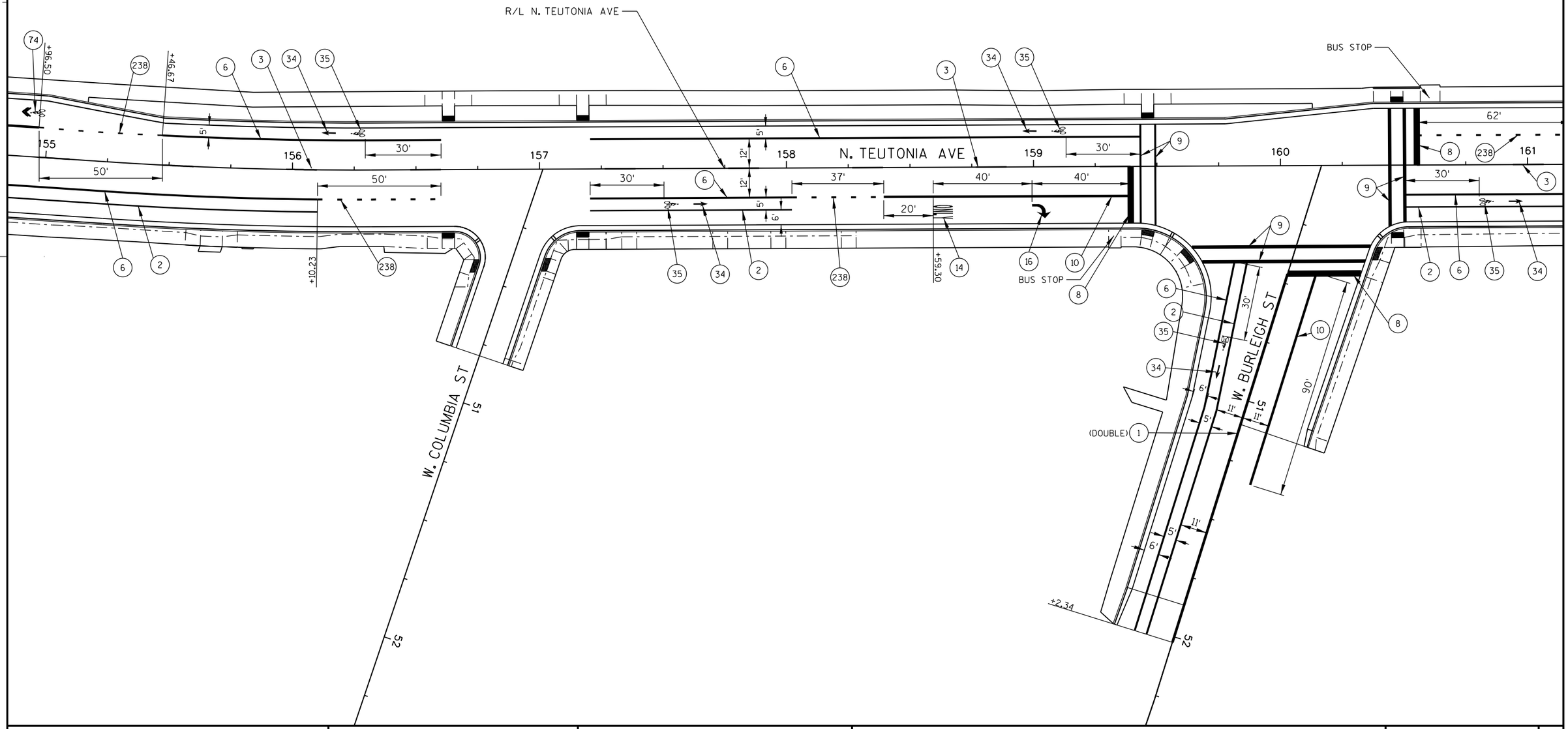
WISDOT/CADDS SHEET 42

2



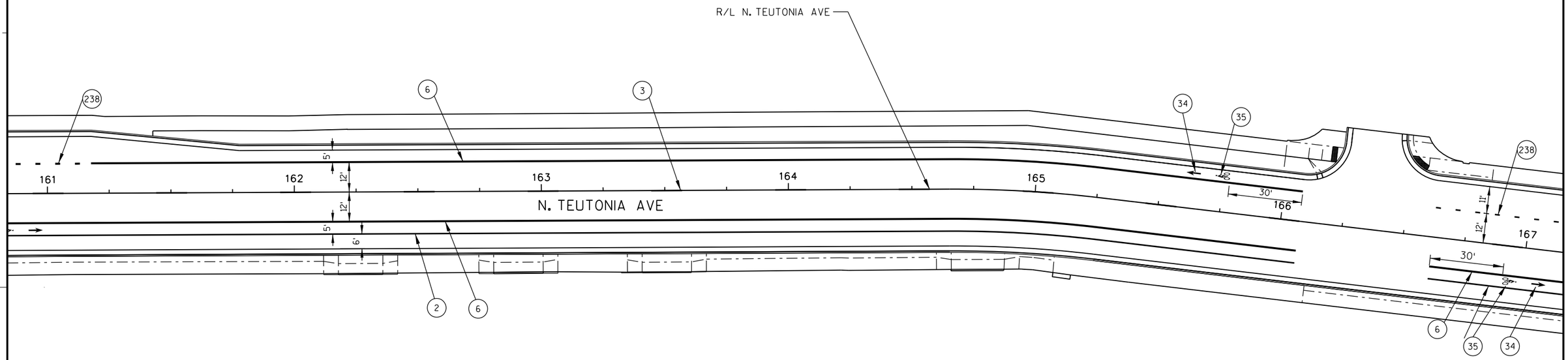
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 181	E

2



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 182	E

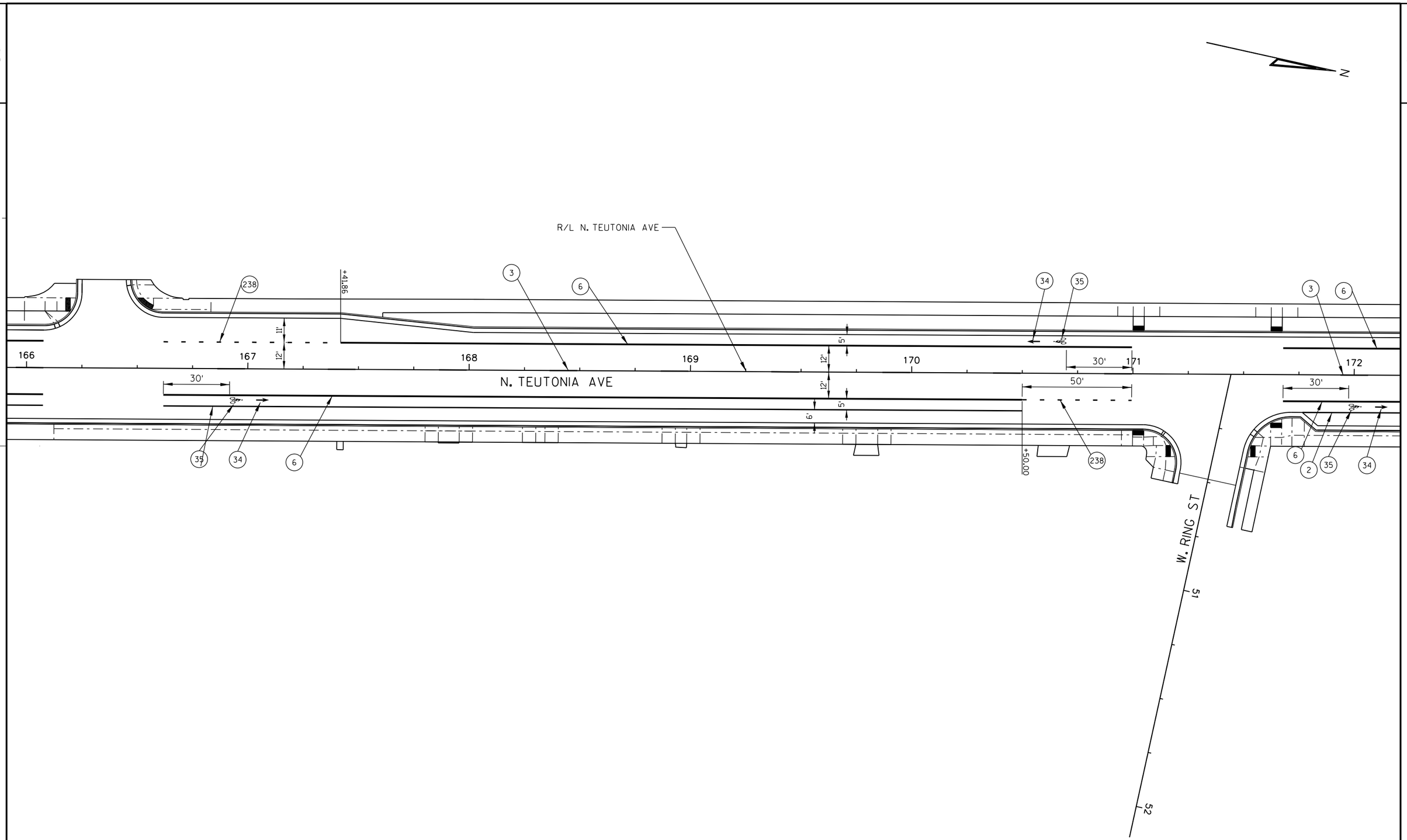
2



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 183	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\024503_PM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

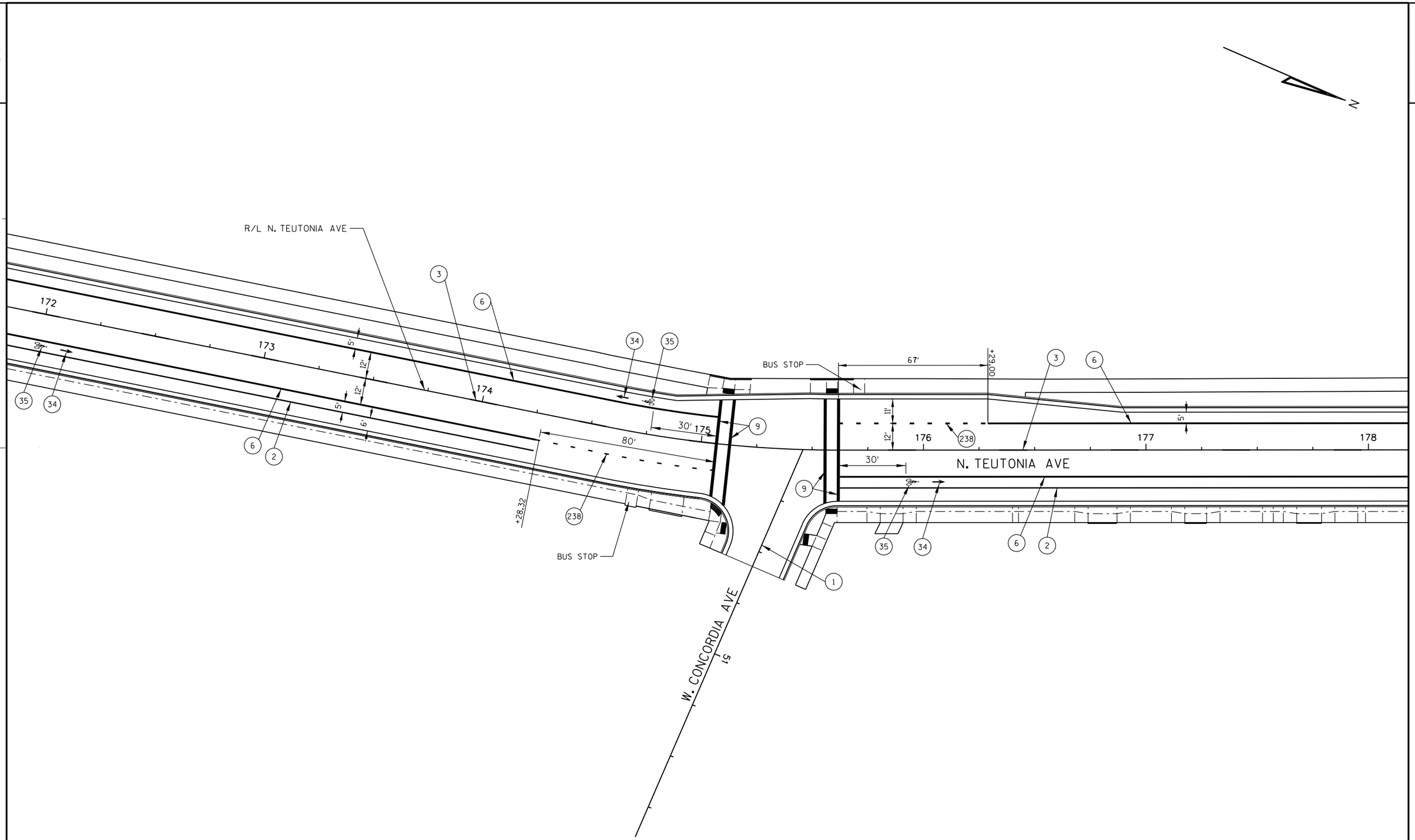
2



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 184	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\024504_PM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

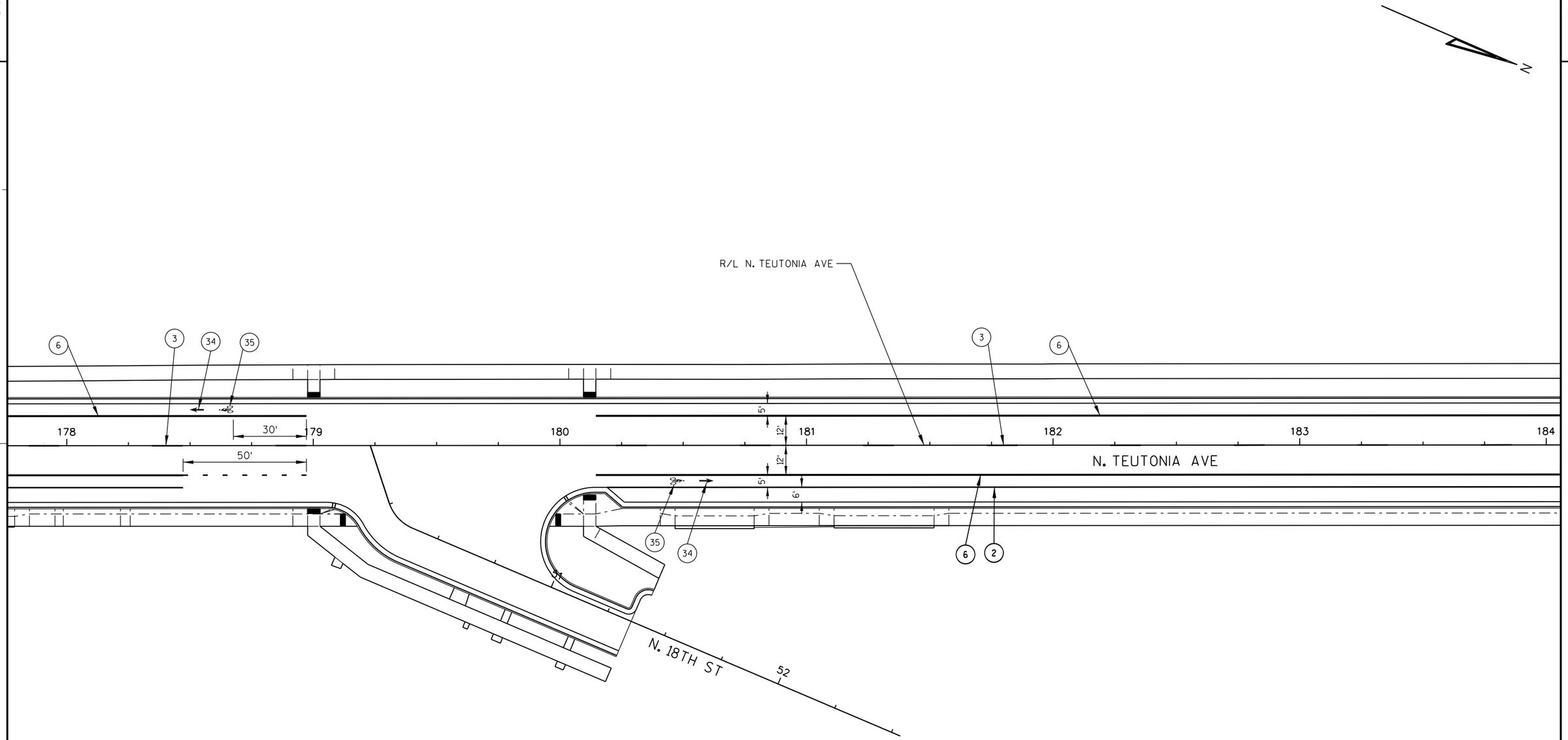
2



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 185	E

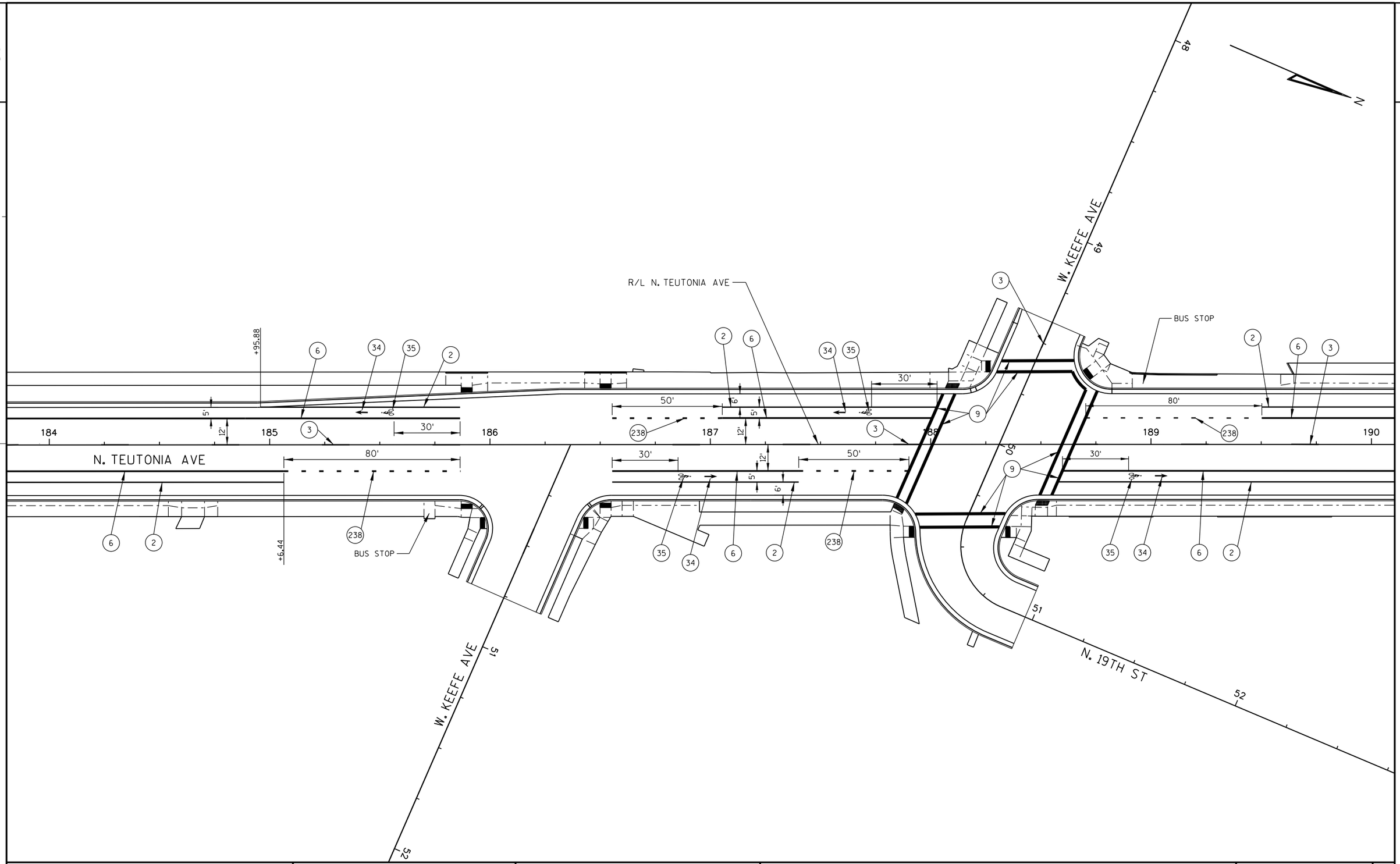
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\024505_PM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2



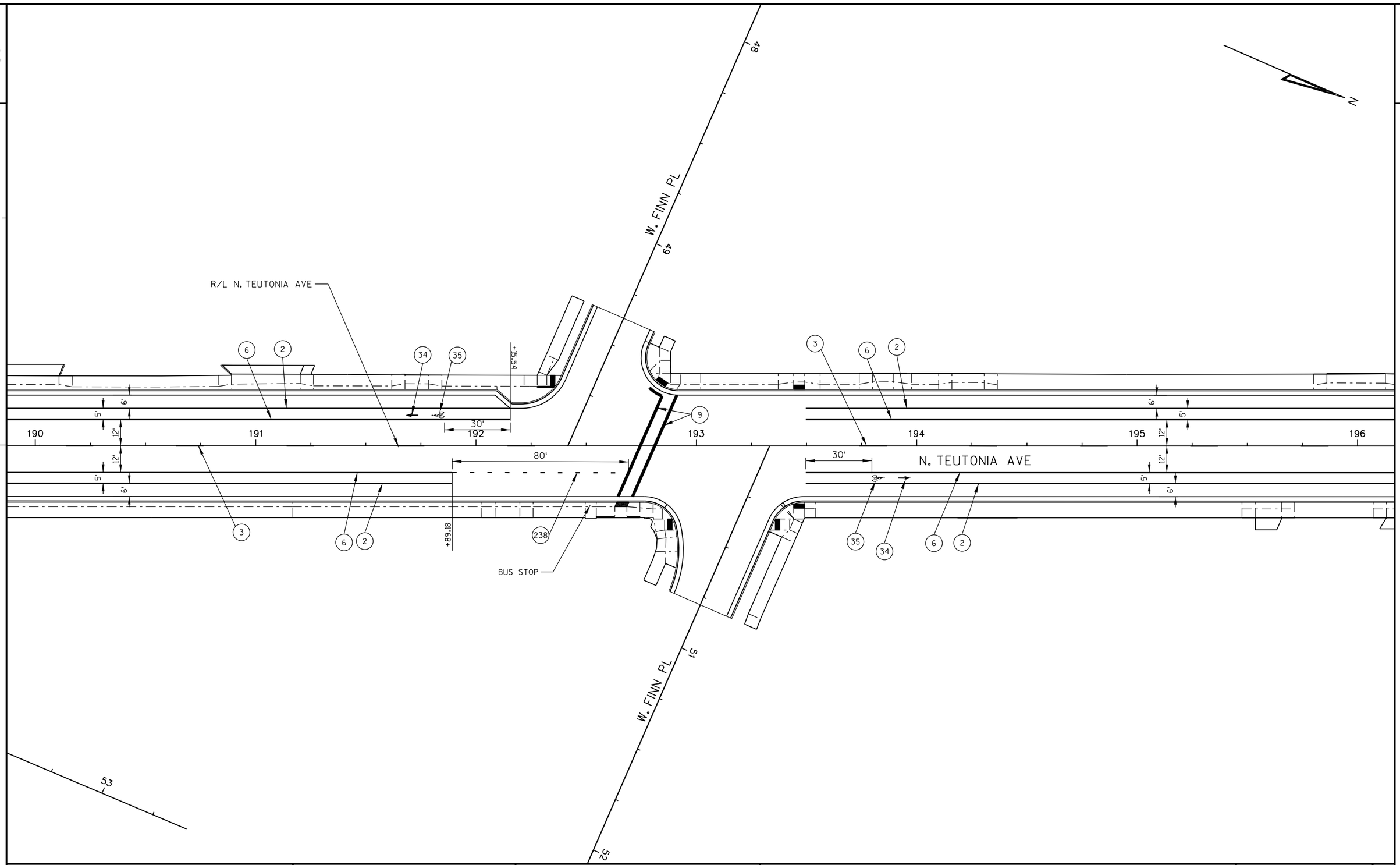
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 186	E

2



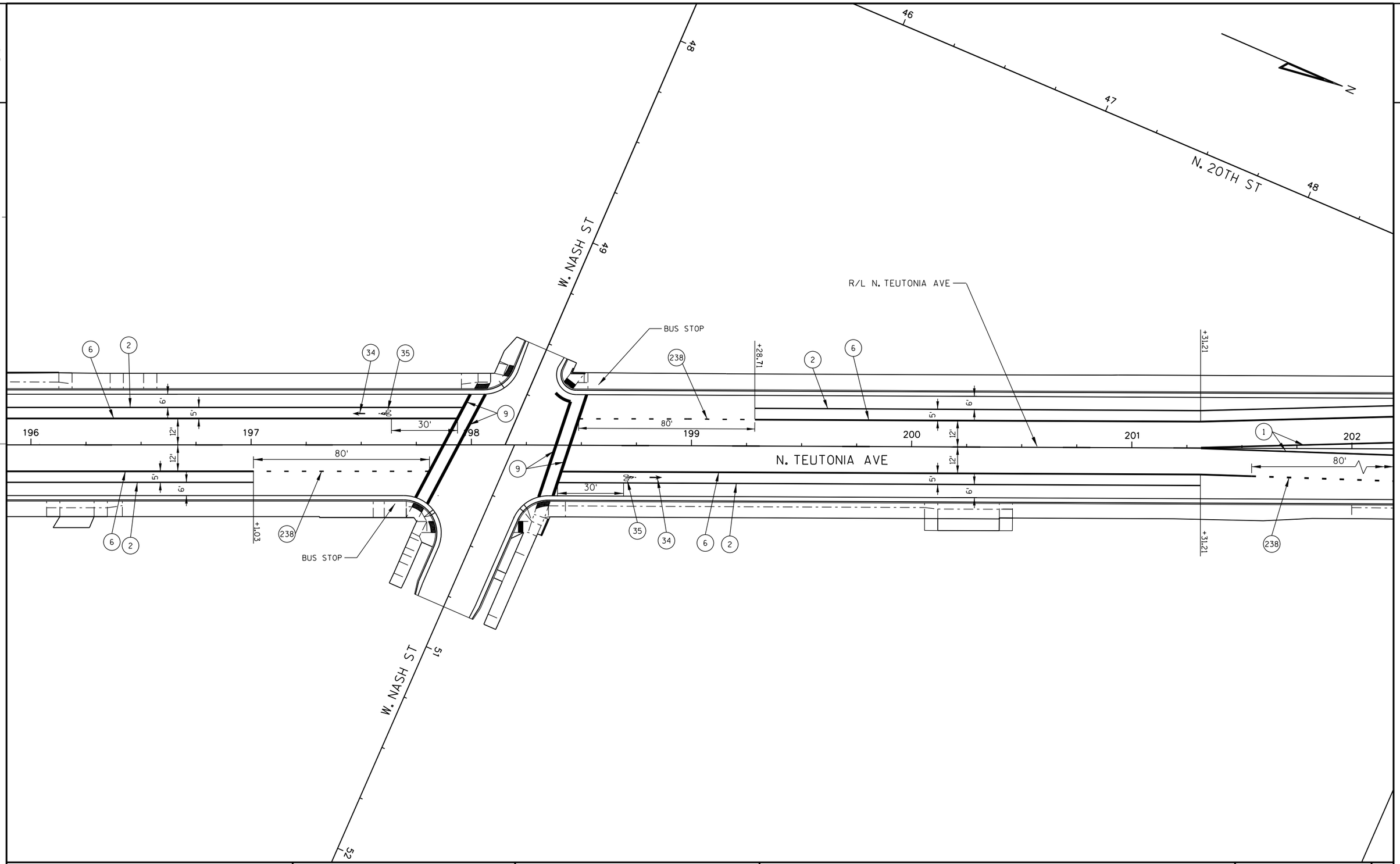
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 187	E

2



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 188	E

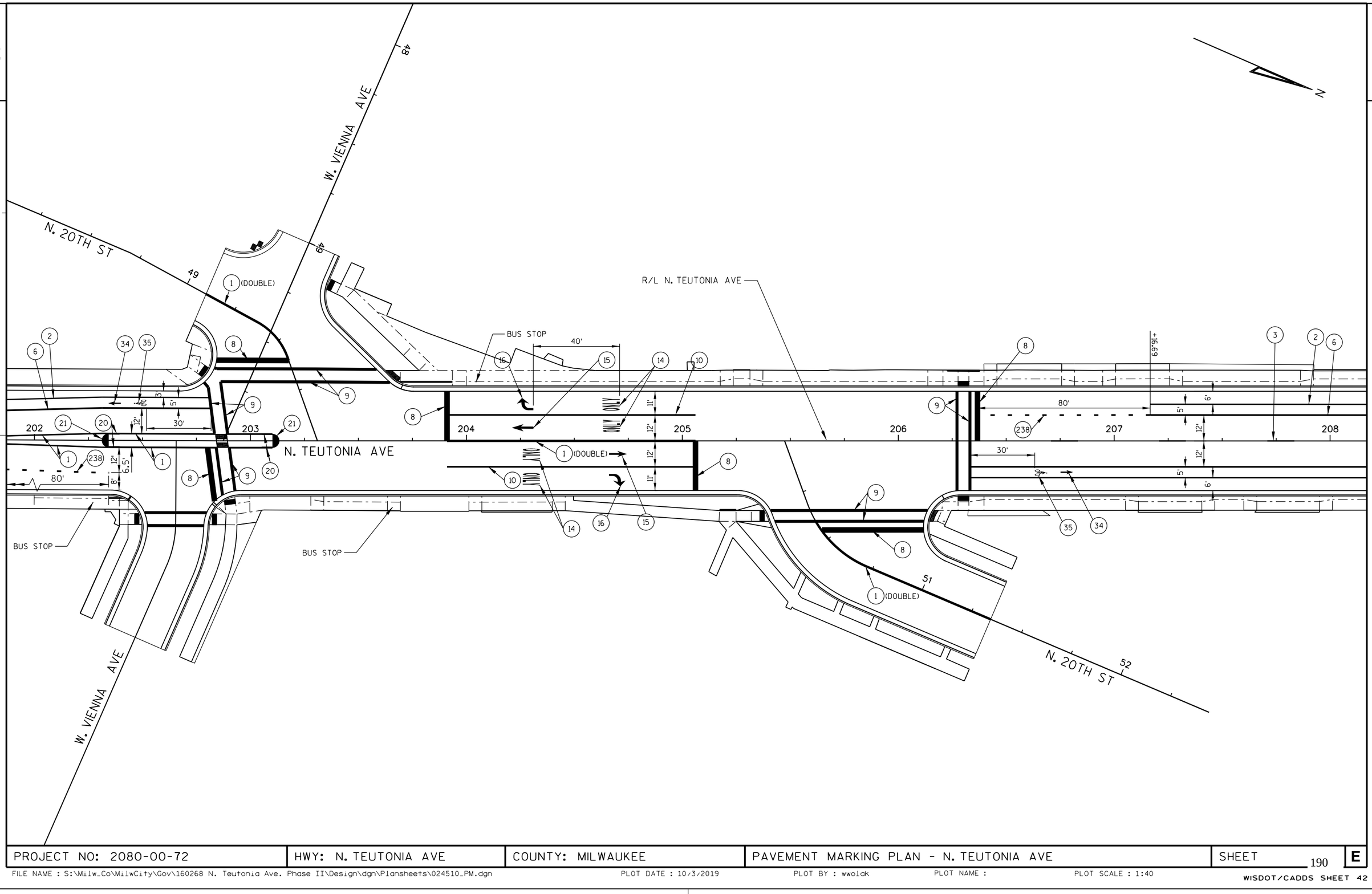
2



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 189	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\024509_PM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 190	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\024510_PM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

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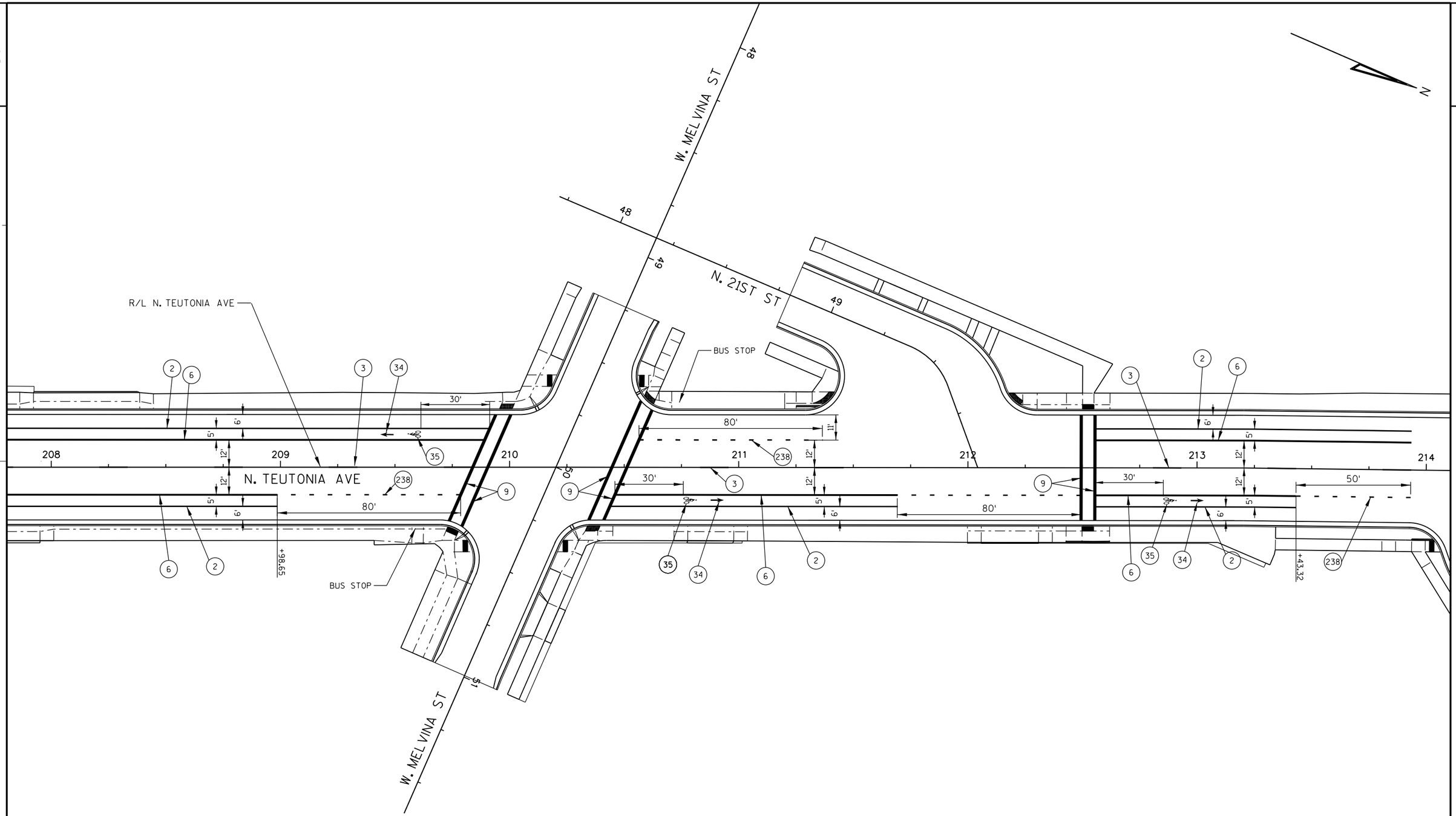


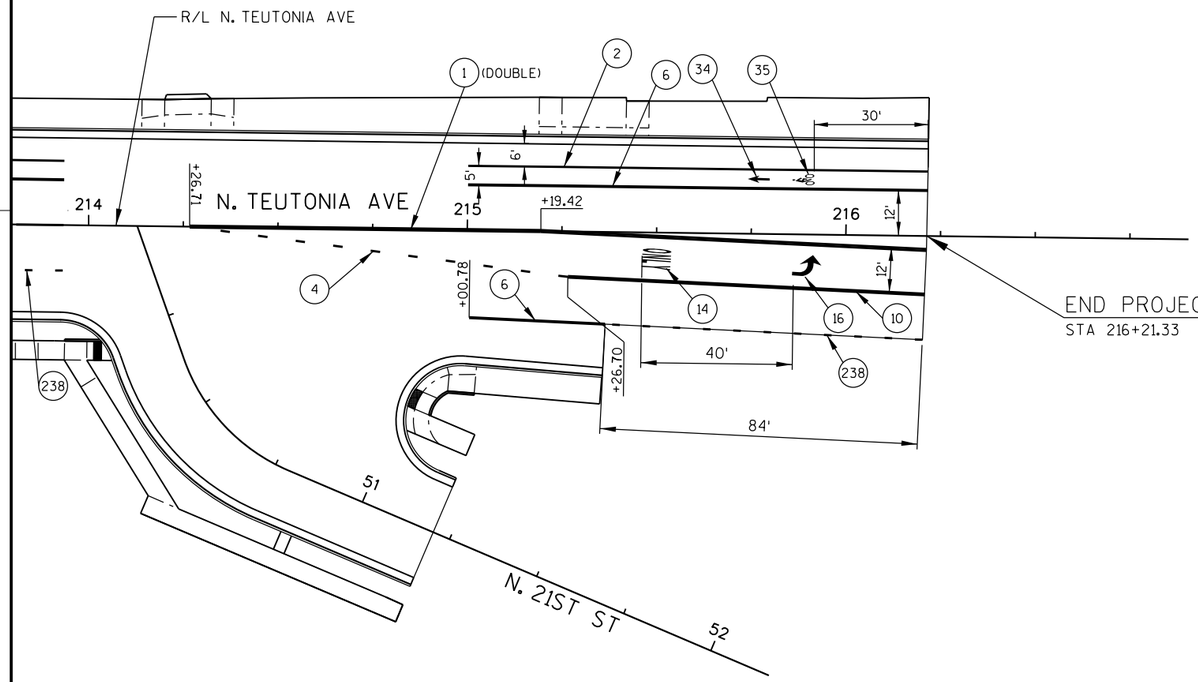
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 191	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\024511_PM.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2

N

W. CAPITOL DR



END PROJECT 2080-00-72
STA 216+21.33

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PAVEMENT MARKING PLAN - N. TEUTONIA AVE	SHEET 192	E

2

TRAFFIC CONTROL LEGEND

= WORKZONE AREA

= WORK COMPLETED IN PREVIOUS STAGE

= DIRECTION OF TRAFFIC FLOW

= TYPE II BARRICADE (4-FOOT EQUIVALENT) WITH ONE WARNING LIGHT, TYPE A WITH / WITHOUT SIGN

= TYPE III BARRICADE (8-FOOT EQUIVALENT) WITH WARNING LIGHTS, TYPE A WITH / WITHOUT SIGN

= POST MOUNTED SIGN

= FLEXIBLE TUBULAR MARKERS

= DRUM WITH WARNING LIGHT TYPE C

= DRUM

PCMS = TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE

= TRAFFIC CONTROL ARROW BOARD

(1) - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH, WHITE

(2) - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH, DOUBLE YELLOW

(3) - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH, YELLOW

(7) - TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH, WHITE

(9) - TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW

(11) - TEMPORARY MARKING LINE PAINT 4-INCH, WHITE

(R) - REMOVE EXISTING PAVEMENT MARKING

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL LEGEND	SHEET 193	E

2

GENERAL NOTES:

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

2) ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

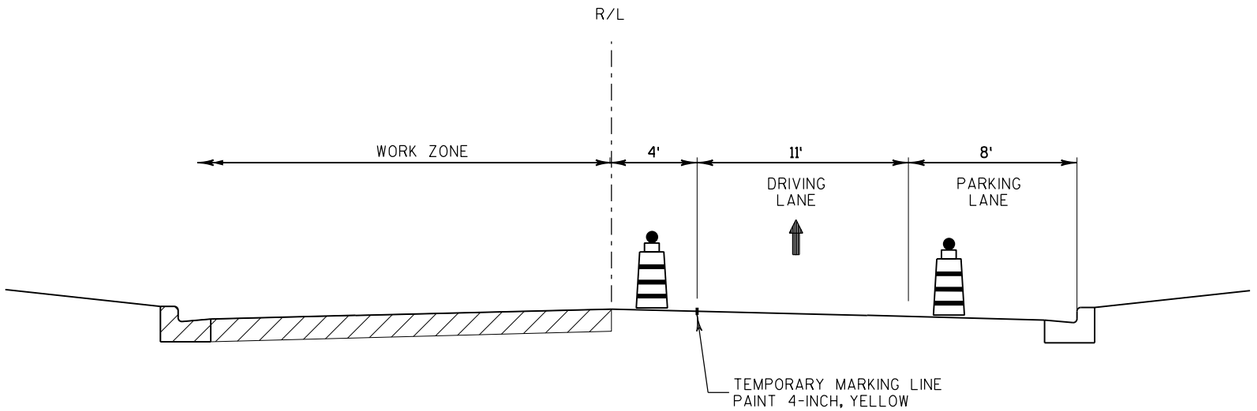
3) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

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

6) PAVEMENT GAP REQUIRED AT HES CONCRETE DRIVEWAYS.

8) CONTRACTOR MUST MAINTAIN ACCESS TO BUSINESSES AT ALL TIME.



STAGE 1 TYPICAL SECTION

ONE WAY TRAFFIC

NOTES:

STAGE 1 WORK ZONE INVOLVES CONSTRUCTION OF SOUTHBOUND LANES OF N. TEUTONIA AVENUE, NORTH LEG OF S. 20TH ST., AND SIDE ROADS ON THE WEST SIDE OF N. TEUTONIA AVENUE.

MAINTAIN 1 NORTHBOUND DRIVING LANE ON EAST HALF OF N. TEUTONIA AVENUE DURING STAGE 1.

MAINTAIN A MINIMUM 4' BUFFER BETWEEN DRIVING LANE AND LIMITS OF SOUTHBOUND WORKZONE.

PEDESTRIAN TRAFFIC CONTROL NOTES:
ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACED PRIOR TO THE START OF ANY SIDEWALK WORK.

ANY MID-BLOCK SIDEWALK REMOVALS MUST HAVE TEMPORARY ACCOMMODATIONS PLACED IMMEDIATELY UPON REMOVAL. SEE SDD FOR TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION, AND TEMPORARY PEDESTRIAN ACCOMMODATION.

TEMPORARY OR PERMANENT ACCOMMODATIONS MUST BE PLACED AT ANY AREA OF SIDEWALK REMOVALS BEFORE ANOTHER AREA OF REMOVALS MAY BEGIN.

PEDESTRIAN ACCOMMODATIONS MUST BE PROVIDED TO ALL RESIDENCES AND BUSINESSES USING EXISTING, NEWLY CONSTRUCTED OR TEMPORARY ACCOMMODATIONS DURING ALL STAGES OF CONSTRUCTION.

SIDEWALKS ON THE WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALLS TIME AT W. CHAMBERS ST. INTERSECTION.

N

W. LOCUST ST.
W. HOPKINS ST.
W. CHAMBERS ST.
W. GROELING AVE.
N. TEUTONIA AVE.
W. COLUMBIA ST.
W. BURLEIGH ST.
N. 16TH ST.
R/L N. TEUTONIA AVE.

ROAD WORK AHEAD W20-1A
W01-4R
SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"
END ROAD WORK G20-2A 48" X 24"
LANE CLOSED R11-2L 48" X 30"
SIDEWALK CLOSED R9-9 24" X 12"
ONE WAY R6-2R 24" X 30"
ROAD CLOSED R11-2 48" X 30"
R3-1 24" X 24"
R3-2 24" X 24"
WRONG WAY R5-1A 42" X 30"

PLACE SIGN IN NORTHEAST CORNER OF THE W. LOCUST ST. INTERSECTION FACING NORTHBOUND TRAFFIC 5 DAYS PRIOR TO CLOSURE.

PRIOR TO CLOSURE FIXED MESSAGE:
ROAD CLOSED ON
XX/XX/XX

DURING CLOSURE FIXED MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

PLACE PCMS SIGN IN NORTHEAST CORNER OF THE W. HADLEY ST. INTERSECTION FACING NORTHBOUND TRAFFIC DURING.

CLOSURE MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

MB
PCMS

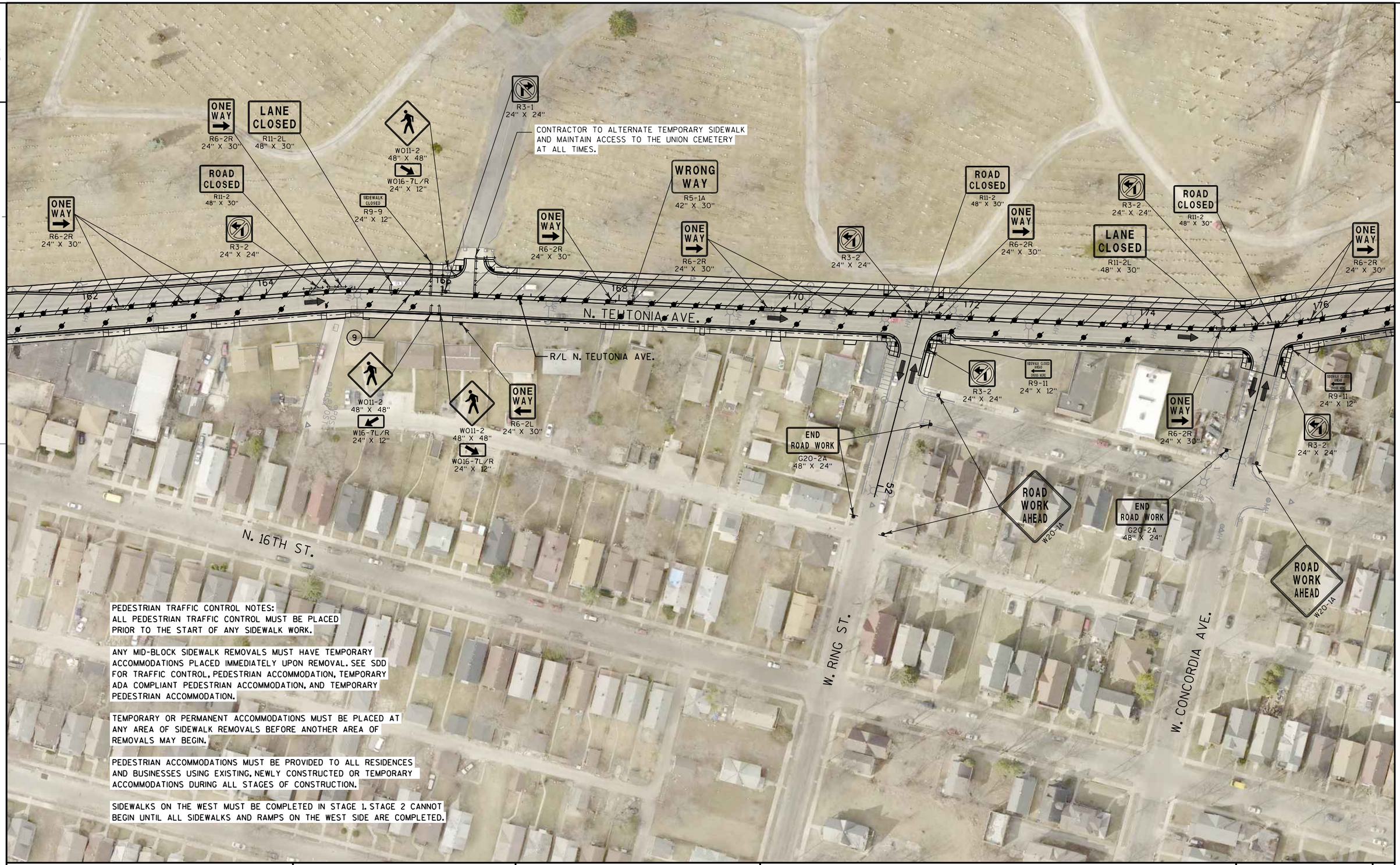
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 195	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025101_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 196	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025102_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



PEDESTRIAN TRAFFIC CONTROL NOTES:
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SIDEWALKS ON THE WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 197	E

PEDESTRIAN TRAFFIC CONTROL NOTES:
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SIDEWALKS ON THE WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

N

ROAD CLOSED
R11-2
48" X 30"

WRONG WAY
R5-1A
42" X 30"

R3-2
24" X 24"

ONE WAY
R6-2R
24" X 30"

LANE CLOSED
R11-2L
48" X 30"

WRONG WAY
R5-1A
42" X 30"

ONE WAY
R6-2R
24" X 30"

ROAD CLOSED
R11-2
48" X 30"

ONE WAY
R6-2R
24" X 30"

R3-2
24" X 24"

WRONG WAY
R5-1A
42" X 30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24" X 12"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24" X 12"

END ROAD WORK
G20-2A
48" X 24"

W. KEEFE AVE.

ROAD CLOSED
R11-2
48" X 30"

SIDEWALK CLOSED
R9-9
24" X 12"

ROAD CLOSED
R11-2
48" X 30"

SIDEWALK CLOSED
R9-9
24" X 12"

178 180 182 184 186 188 190

N. TEUTONIA AVE.

R/L N. TEUTONIA AVE.

ONE WAY
R6-2R
24" X 30"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24" X 12"

R3-2
24" X 24"

9 52 N. 18TH ST.

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48" X 24"

END ROAD WORK
G20-2A
48" X 24"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24" X 12"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24" X 12"

LANE CLOSED
R11-2L
48" X 30"

R3-2
24" X 24"

W. KEEFE AVE.

ROAD WORK AHEAD
W20-1A

DO NOT ENTER
R5-1
30" X 30"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24" X 12"

R3-2
24" X 24"

52 N. 19TH ST.

END ROAD WORK
G20-2A
48" X 24"

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 198	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025104_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

PLACE SIGN IN NORTHEAST CORNER OF THE N. 20TH ST. & W. FINN PL. INTERSECTION FACING NORTHBOUND TRAFFIC 5 DAYS PRIOR TO CLOSURE. SIGN SHOULD NOT BE DEPLOYED ON SIDEWALK AND/OR OVERLAPPING SIDEWALK UNLESS THERE IS A HEIGHT DIFFERENCE OF 7-FT.

PRIOR TO CLOSURE FIXED MESSAGE:
ROAD CLOSED ON
XX/XX/XX

DURING CLOSURE FIXED MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

PEDESTRIAN TRAFFIC CONTROL NOTES:
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SIDEWALKS ON THE WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALL TIMES AT W. NASH ST. INTERSECTION

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 199 E

PEDESTRIAN TRAFFIC CONTROL NOTES:
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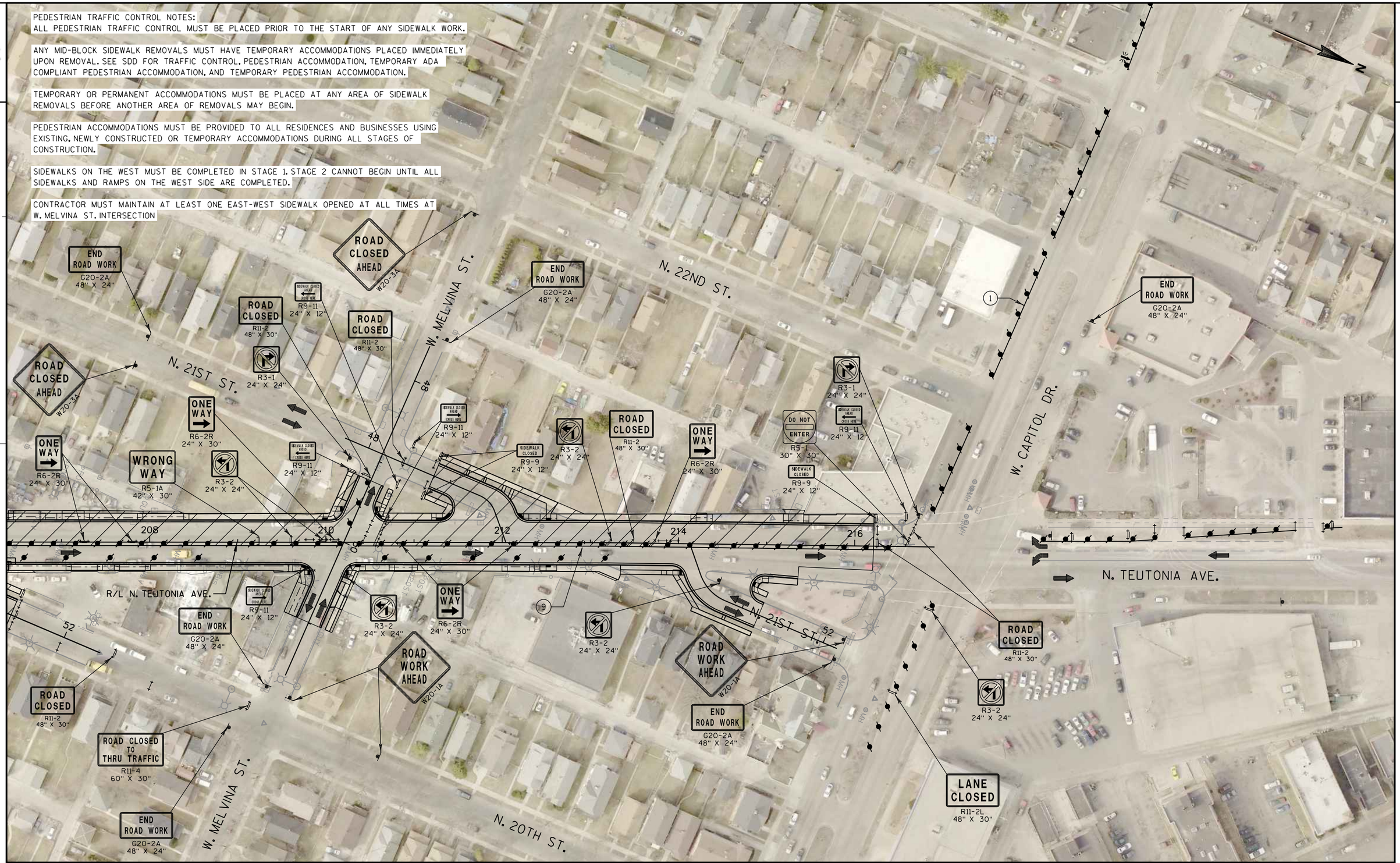
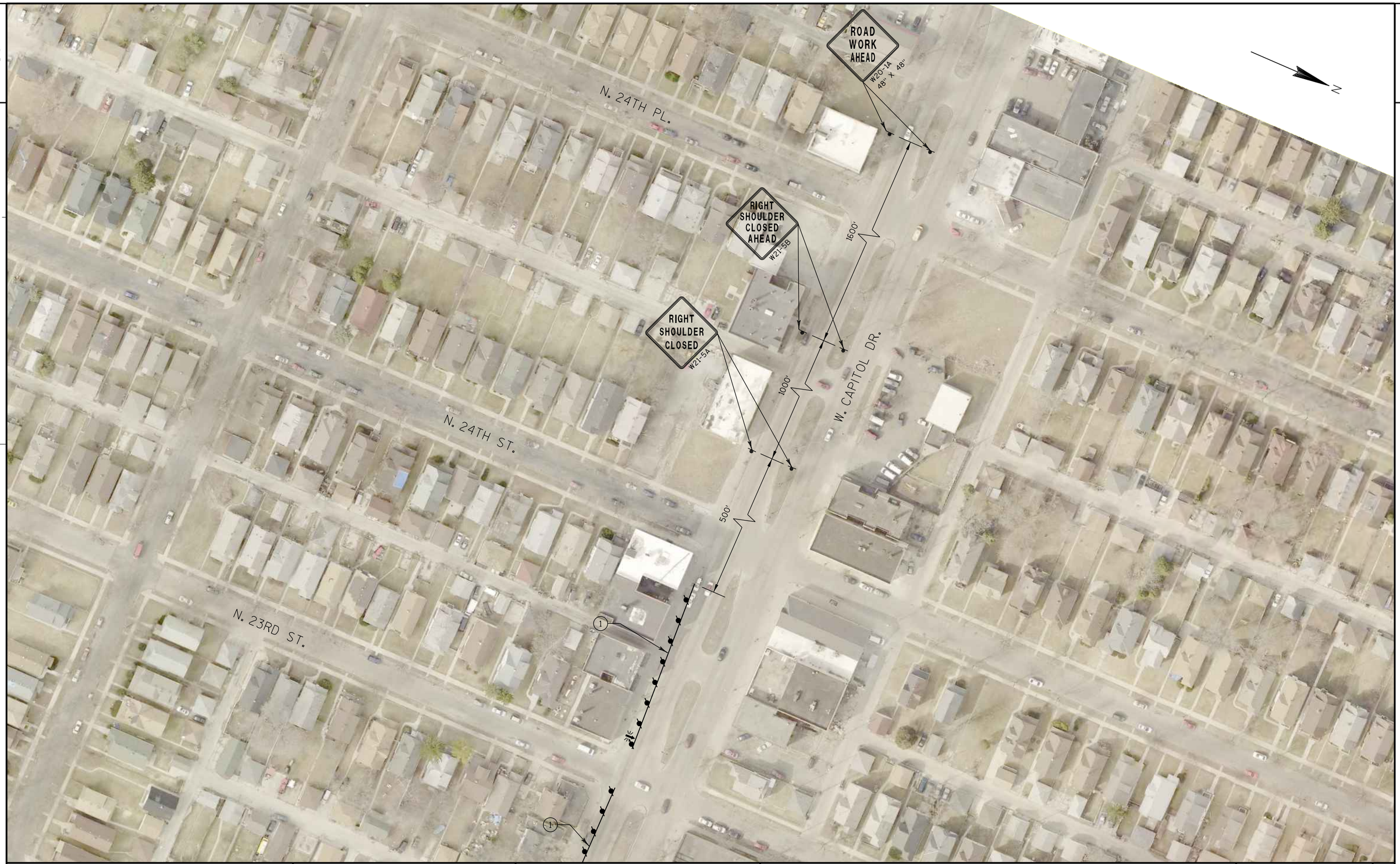
SIDEWALKS ON THE WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALL TIMES AT W. MELVINA ST. INTERSECTION



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 200	E



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 201	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025107_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

PEDESTRIAN TRAFFIC CONTROL NOTES:
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SIDEWALKS ON THE WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

N

W. CAPITOL DR.

N. 23RD ST.

W. HOPE AVE.

N. TEUTONIA AVE.

N. 21ST ST.

W. ATKINSON AVE.

ROAD CLOSED 200 FT
W20-3(MOD)

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

LANE CLOSED
R11-2L
48" X 30"

W4-2R
36" X 36"

W01-6
48" X 24"

RIGHT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48" X 24"

200'

400'

400'

PLACE PCMS SIGN 1000-FT NORTH OF THE W. ATKINSON AVE. INTERSECTION FACING SOUTHBOUND DURING CLOSURE.

CLOSURE MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

MB

PCMS

PLACE SIGN IN SOUTHWEST CORNER OF THE W. ATKINSON AVE. INTERSECTION FACING SOUTHBOUND TRAFFIC 5 DAYS PRIOR TO CLOSURE.

PRIOR TO CLOSURE FIXED MESSAGE
ROAD CLOSED ON
XX/XX/XX

DURING CLOSURE FIXED MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 202	E

2

PLACE SIGN IN NORTHEAST CORNER OF THE N. 20TH ST. & W. CAPITOL DR. INTERSECTION FACING SOUTHBOUND TRAFFIC 5 DAYS PRIOR TO CLOSURE. SIGN SHOULD NOT BE DEPLOYED ON SIDEWALK AND/OR OVERLAPPING SIDEWALK UNLESS THERE IS A HEIGHT DIFFERENCE OF 7-FT.

PRIOR TO CLOSURE FIXED MESSAGE:
ROAD CLOSED ON
XX/XX/XX

DURING CLOSURE FIXED MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

MB

ROAD CLOSED AHEAD
W20-3

ONLY
R3-8G
36" X 30"

N

W. ATKINSON AVE.

N. 20TH ST.

N. 19TH PL.

W. MELVINA ST.

LEFT LANE CLOSED AHEAD
W20-5

LEFT LANE CLOSED AHEAD
W20-5

ROAD WORK AHEAD
W20-1

N. 19TH ST.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 203	E

PEDESTRIAN TRAFFIC CONTROL NOTES:
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SIDEWALKS WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALL TIMES AT W. CHAMBERS ST. INTERSECTION.

PLACE SIGN IN NORTHEAST CORNER OF THE W. LOCUST ST. INTERSECTION FACING NORTHBOUND TRAFFIC 5 DAYS PRIOR TO CLOSURE.

PRIOR TO CLOSURE FIXED MESSAGE:
ROAD CLOSED AT XX/XX/XX

DURING CLOSURE FIXED MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

PLACE PCMS SIGN IN NORTHEAST CORNER OF THE W. HADLEY ST. INTERSECTION FACING NORTHBOUND TRAFFIC DURING.

CLOSURE MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

W. HOPKINS ST.
W. LOCUST ST.
W. GROELING AVE.
W. CHAMBERS ST.
N. TEUTONIA AVE.
W. COLUMBIA ST.
W. BURLEIGH ST.
N. 16TH ST.
R/L N. TEUTONIA AVE.

ROAD WORK AHEAD W20-1A
R9-11 24" X 12"
W4-2R
END ROAD WORK G20-2A 48" X 24"
LANE CLOSED R11-2L 48" X 30"
SIDEWALK CLOSED R9-9 24" X 12"
R3-1 24" X 24"
WRONG WAY R5-1A 42" X 30"
ROAD CLOSED R11-2 48" X 30"
ONE WAY R6-2R 24" X 30"
R3-2 24" X 24"
SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"
PCMS
MB
1
2
3

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 205	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025112_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

CONTRACTOR TO ALTERNATE TEMPORARY SIDEWALK AND MAINTAIN ACCESS TO THE UNION CEMETERY AT ALL TIMES.

ROAD CLOSED R11-2 48" X 30"

R3-1 24" X 24"

ONE WAY R6-2R 24" X 30"

R3-2 24" X 24"

WO11-2 48" X 48"

WO16-7L/R 24" X 12"

ONE WAY R6-2R 24" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

WRONG WAY R5-1A 42" X 30"

ROAD CLOSED R11-2 48" X 30"

R3-2 24" X 24"

ONE WAY R6-2R 24" X 30"

ROAD CLOSED R11-2 48" X 30"

R3-2 24" X 24"

LANE CLOSED R11-2L 48" X 30"

ONE WAY R6-2R 24" X 30"

N. TEUTONIA AVE.

162 164 166 168 170 172 174 176

3

R/L N. TEUTONIA AVE.

ONE WAY R6-2R 24" X 30"

LANE CLOSED R11-2L 48" X 30"

ONE WAY R6-2L 24" X 30"

WO11-2 48" X 48"

W16-7L/R 24" X 12"

WO11-2 48" X 48"

WO16-7R/L 24" X 12"

ONE WAY R6-2R 24" X 30"

END ROAD WORK G20-2A 48" X 24"

52'

R3-2 24" X 24"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"

ONE WAY R6-2R 24" X 30"

SIDEWALK CLOSED AHEAD TRAVEL HERE R9-11 24" X 12"

R3-2 24" X 24"

ROAD WORK AHEAD W20-1A

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1A

N. 16TH ST.

W. RING ST.

W. CONCORDIA AVE.

PEDESTRIAN TRAFFIC CONTROL NOTES:
ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACED PRIOR TO THE START OF ANY SIDEWALK WORK.

ANY MID-BLOCK SIDEWALK REMOVALS MUST HAVE TEMPORARY ACCOMODATIONS PLACED IMMEDIATELY UPON REMOVAL. SEE SDD FOR TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMODATION, AND TEMPORARY PEDESTRIAN ACCOMODATION.

TEMPORARY OR PERMANENT ACCOMODATIONS MUST BE PLACED AT ANY AREA OF SIDEWALK REMOVALS BEFORE ANOTHER AREA OF REMOVALS MAY BEGIN.

PEDESTRIAN ACCOMODATIONS MUST BE PROVIDED TO ALL RESIDENCES AND BUSINESSES USING EXISTING, NEWLY CONSTRUCTED OR TEMPORARY ACCOMODATIONS DURING ALL STAGES OF CONSTRUCTION.

SIDEWALKS ON THE WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 206	E

PEDESTRIAN TRAFFIC CONTROL NOTES:
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ROAD CLOSED
R11-2
48" X 30"

WRONG WAY
R5-1A
42" X 30"

R3-2
24" X 24"

ONE WAY
R6-2R
24" X 30"

LANE CLOSED
R11-2L
48" X 30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24" X 12"

END ROAD WORK
G20-2A
48" X 24"

SIDEWALK CLOSED
R9-9
24" X 12"

ROAD WORK AHEAD
W20-1A

DO NOT ENTER
R5-1
30" X 30"
(EXISTING)

W. KEEFE AVE.
N. TEUTONIA AVE.
R/L N. TEUTONIA AVE.
N. 18TH ST.
N. 19TH ST.
52
46
178
180
182
184
186
188
190

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 207	E

PLACE SIGN IN NORTHEAST CORNER OF THE N. 20TH ST. & W. FINN PL. INTERSECTION FACING NORTHBOUND TRAFFIC 5 DAYS PRIOR TO CLOSURE. SIGN SHOULD NOT BE DEPLOYED ON SIDEWALK AND/OR OVERLAPPING SIDEWALK UNLESS THERE IS A HEIGHT DIFFERENCE OF 7-FT.

PRIOR TO CLOSURE FIXED MESSAGE:
ROAD CLOSED ON
XX/XX/XX

DURING CLOSURE FIXED MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

PEDESTRIAN TRAFFIC CONTROL NOTES:

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SIDEWALKS ON THE WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED..

CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALL TIMES AT W. NASH ST. INTERSECTION.

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"
R9-11 24" X 12"
END ROAD WORK G20-2A 48" X 24"
ROAD WORK AHEAD W20-1A
ROAD CLOSED AHEAD W20-3A
ROAD CLOSED R11-2 48" X 30"
LANE CLOSED R11-2L 48" X 30"
SIDEWALK CLOSED R9-9 24" X 12"
ONE WAY R6-2R 24" X 30"
WRONG WAY R5-1A 42" X 30"
R3-2 24" X 24"
R/L N. TEUTONIA AVE.
W. FINN PL.
N. 20TH ST.
N. 21ST ST.
W. VIENNA AVE.
N. TEUTONIA AVE.
W. NASH ST
N. 19TH PL.
N. 19TH ST.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 208 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025115_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

PEDESTRIAN TRAFFIC CONTROL NOTES:
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CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALL TIMES AT W. MELVINA ST. INTERSECTION

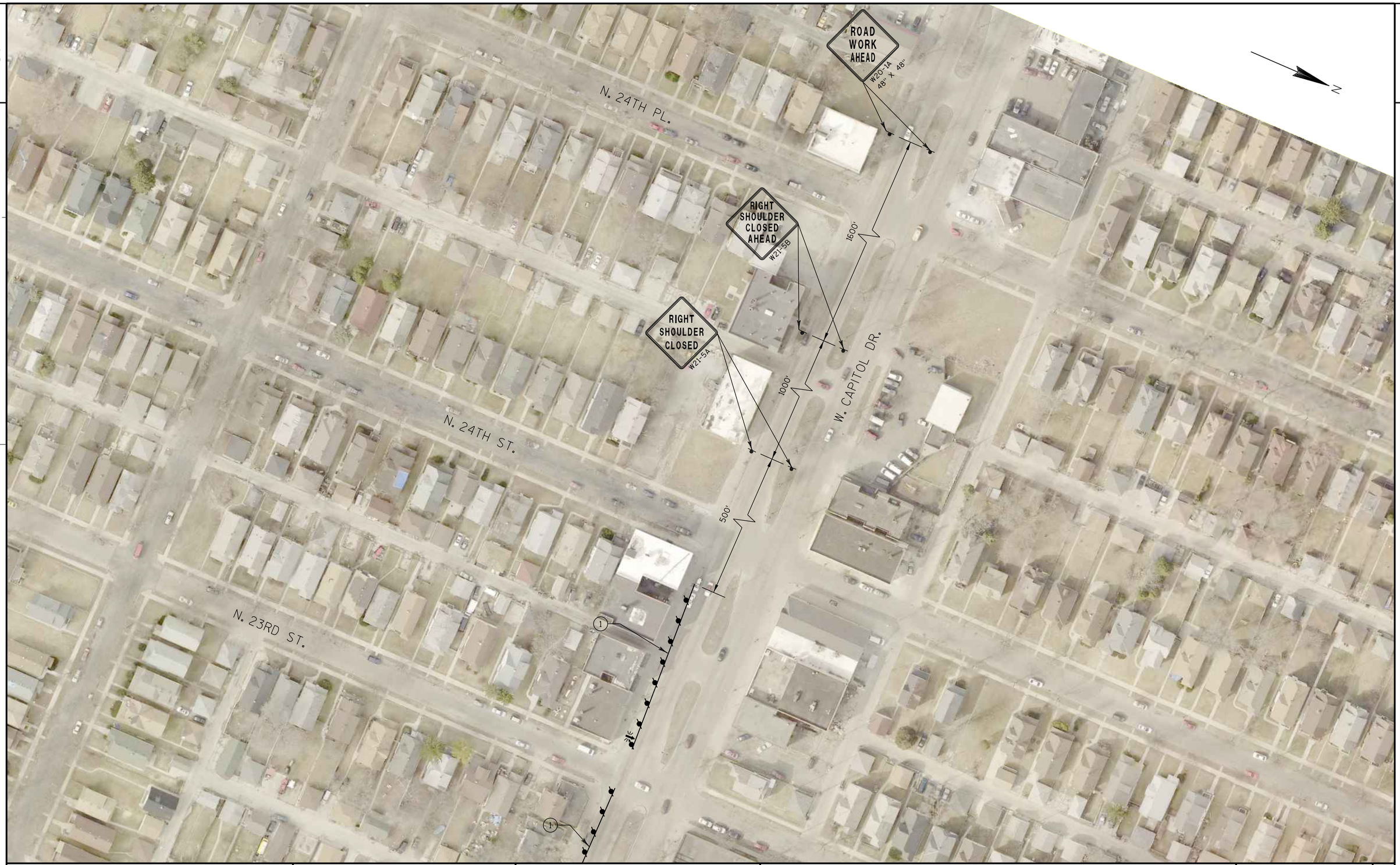
N. 22ND ST.
N. 21ST ST.
W. MELVINA ST.
N. 20TH ST.
W. CAPITOL DR.
N. TEUTONIA AVE.
R/L N. TEUTONIA AVE.
208
210
212
214
216
48
52

ROAD CLOSED AHEAD W20-3A
END ROAD WORK G20-2A 48" X 24"
ROAD CLOSED R11-2 48" X 30"
R9-11 24" X 12"
ONE WAY R6-2R 24" X 30"
WRONG WAY R5-1A 42" X 30"
R3-1 24" X 24"
SIDEWALK CLOSED R9-9 24" X 12"
R3-2 24" X 24"
ROAD WORK AHEAD W20-1A
ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"
LANE CLOSED R11-2L 48" X 30"

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 209	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025116_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 210	E

PEDESTRIAN TRAFFIC CONTROL NOTES:
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SIDEWALKS ON THE WEST MUST BE COMPLETED IN STAGE 1. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

W. CAPITOL DR.

N. 23RD ST.

W. HOPE AVE.

N. TEUTONIA AVE.

N. 21ST ST.

W. ATKINSON AVE.

ROAD CLOSED 200 FT
W20-3(MOD)

LANE CLOSED
R11-2L
48" X 30"

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

W4-2R
36" X 36"

W01-6
48" X 24"

RIGHT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48" X 24"

200'

400'

400'

PLACE PCMS SIGN 1000-FT NORTH OF THE W. ATKINSON AVE. INTERSECTION FACING SOUTHBOUND DURING CLOSURE.

CLOSURE MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

MB

PCMS

PLACE SIGN IN SOUTHWEST CORNER OF THE W. ATKINSON AVE. INTERSECTION FACING SOUTHBOUND TRAFFIC 5 DAYS PRIOR TO CLOSURE.

PRIOR TO CLOSURE FIXED MESSAGE
ROAD CLOSED ON
XX/XX/XX

DURING CLOSURE FIXED MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 211	E

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 212	E

2

GENERAL NOTES:

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

2) ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

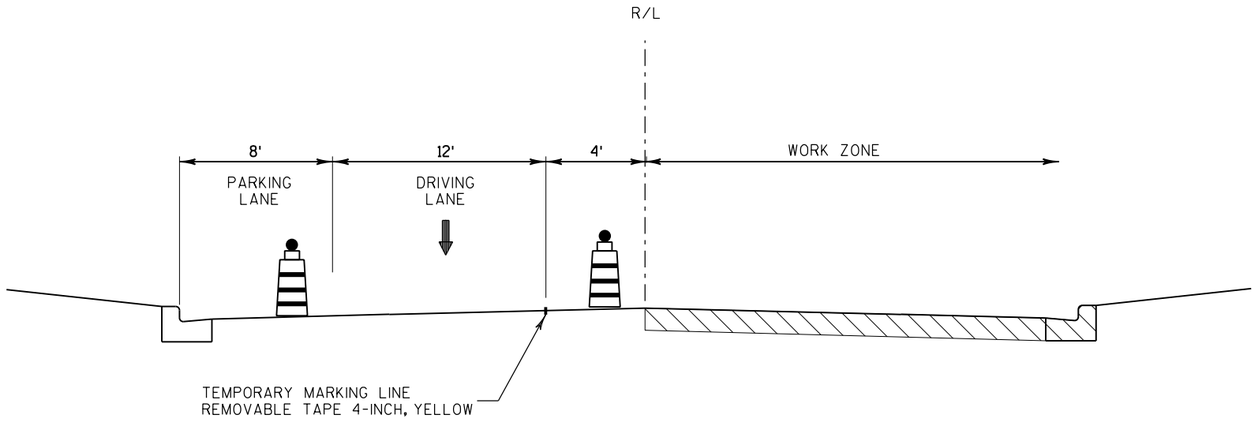
3) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

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

7) PAVEMENT GAP REQUIRED AT HES CONCRETE DRIVEWAYS.

8) CONTRACTOR MUST MAINTAIN ACCESS TO BUSINESSES AT ALL TIME.



STAGE 2 TYPICAL SECTION

ONE WAY TRAFFIC

NOTES:

STAGE 2 WORK ZONE INVOLVES CONSTRUCTION OF NORTHBOUND LANES OF N. TEUTONIA AVENUE AND SIDE ROADS ON THE EAST SIDE OF N.TEUTONIA AVENUE.

MAINTAIN ONE SOUTHBOUND DRIVING LANE ON NEWLY CONSTRUCTED WEST HALF OF N. TEUTONIA AVENUE DURING STAGE 2.

MAINTAIN A MINIMUM 4'BUFFER BETWEEN DRIVING LANE AND LIMITS OF NORTHBOUND WORKZONE.

2

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 213	E

2

2

PEDESTRIAN TRAFFIC CONTROL NOTES:
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STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALL TIMES AT W. CHAMBERS ST. INTERSECTION.

N

W. LOCUST ST.
W. HOPKINS ST.
W. CHAMBERS ST.
W. GROELING AVE.
N. TEUTONIA AVE.
R/L N. TEUTONIA AVE.
W. COLUMBIA ST.
W. BURLEIGH ST.
N. 16TH ST.

PLACE PCMS SIGN IN NORTHEAST CORNER OF THE W. HADLEY ST. INTERSECTION FACING NORTHBOUND TRAFFIC DURING.

CLOSURE MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

PLACE SIGN IN NORTHEAST CORNER OF THE W. LOCUST ST. INTERSECTION FACING NORTHBOUND TRAFFIC 5 DAYS PRIOR TO CLOSURE.

PRIOR TO CLOSURE FIXED MESSAGE:
ROAD CLOSED ON
XX/XX/XX

DURING CLOSURE FIXED MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

PCMS MB
500' 500' 500'
ROAD CLOSED AHEAD W20-3A
ROAD CLOSED 1000 FT W20-3C
ROAD CLOSED 500 FT W20-3D

ROAD WORK AHEAD W20-1A
END ROAD WORK G20-2A 48" X 24"
ROAD CLOSED R11-2 48" X 30"
LANE CLOSED R11-2L 48" X 30"
SIDEWALK CLOSED R9-9 24" X 12"
SIDEWALK CLOSED AHEAD R9-11 24" X 12"
R3-2 24" X 24"
R3-1 24" X 24"
ONE WAY R6-2R 24" X 30"
ONE WAY R6-2L 24" X 30"
WRONG WAY R5-1A 42" X 30"

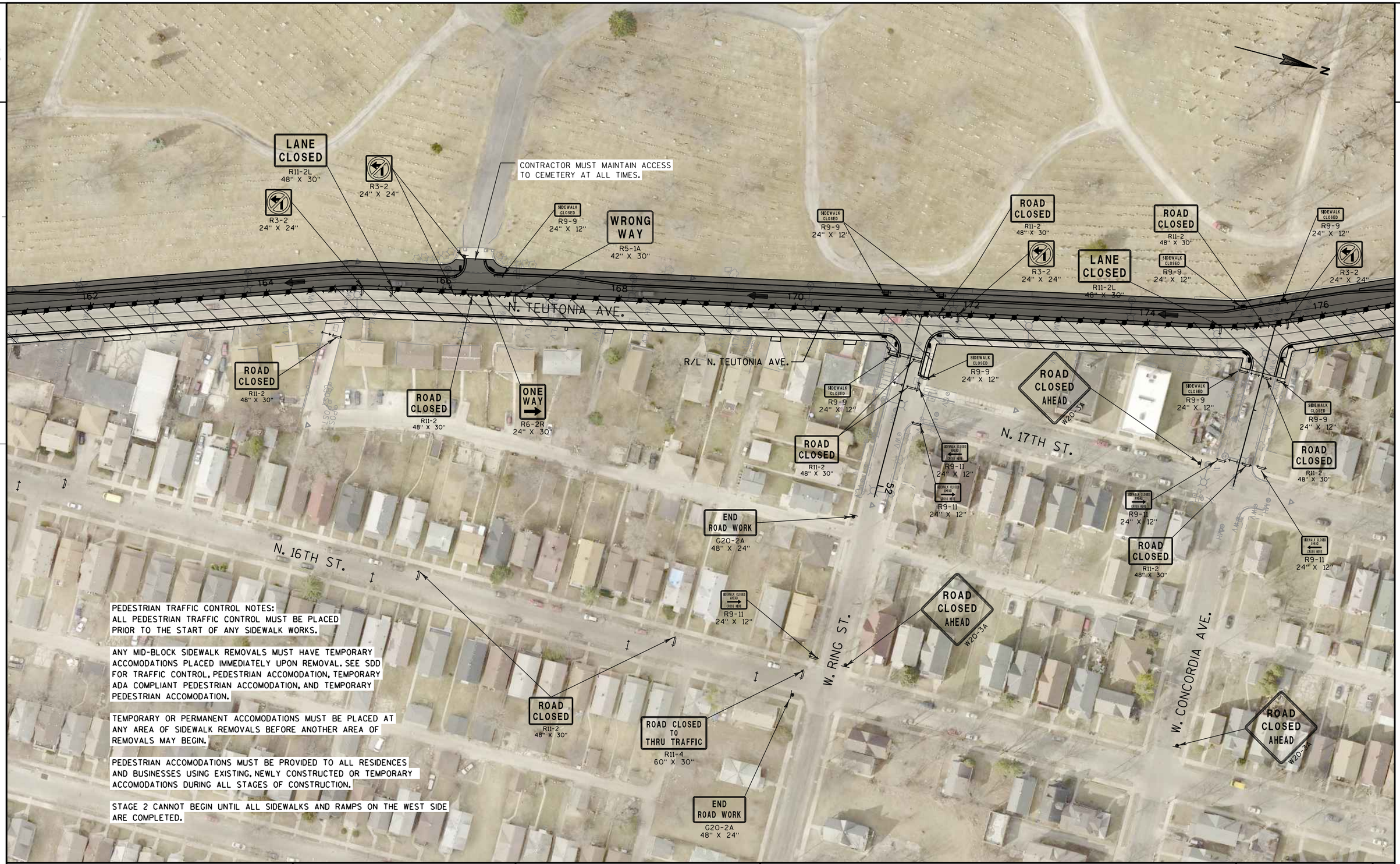
PROJECT NO: 2080-00-72 | HWY: N. TEUTONIA AVE | COUNTY: MILWAUKEE | TRAFFIC CONTROL STAGE 2 | SHEET 214 E

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 215	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025202_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2



PEDESTRIAN TRAFFIC CONTROL NOTES:
ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACED PRIOR TO THE START OF ANY SIDEWALK WORKS.

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STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 216	E

PEDESTRIAN TRAFFIC CONTROL NOTES:
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STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

ROAD WORK AHEAD W20-1A

W. KEEFE AVE.

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

WRONG WAY R5-1A 42" X 30"

R3-2 24" X 24"

LANE CLOSED R11-2L 48" X 30"

ONE WAY R6-2R 24" X 30"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"

N. TEUTONIA AVE.

178 180 182 184 186 188 190

R/L N. TEUTONIA AVE.

N. 18TH ST.

N. 19TH ST.

52

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 217	E

2

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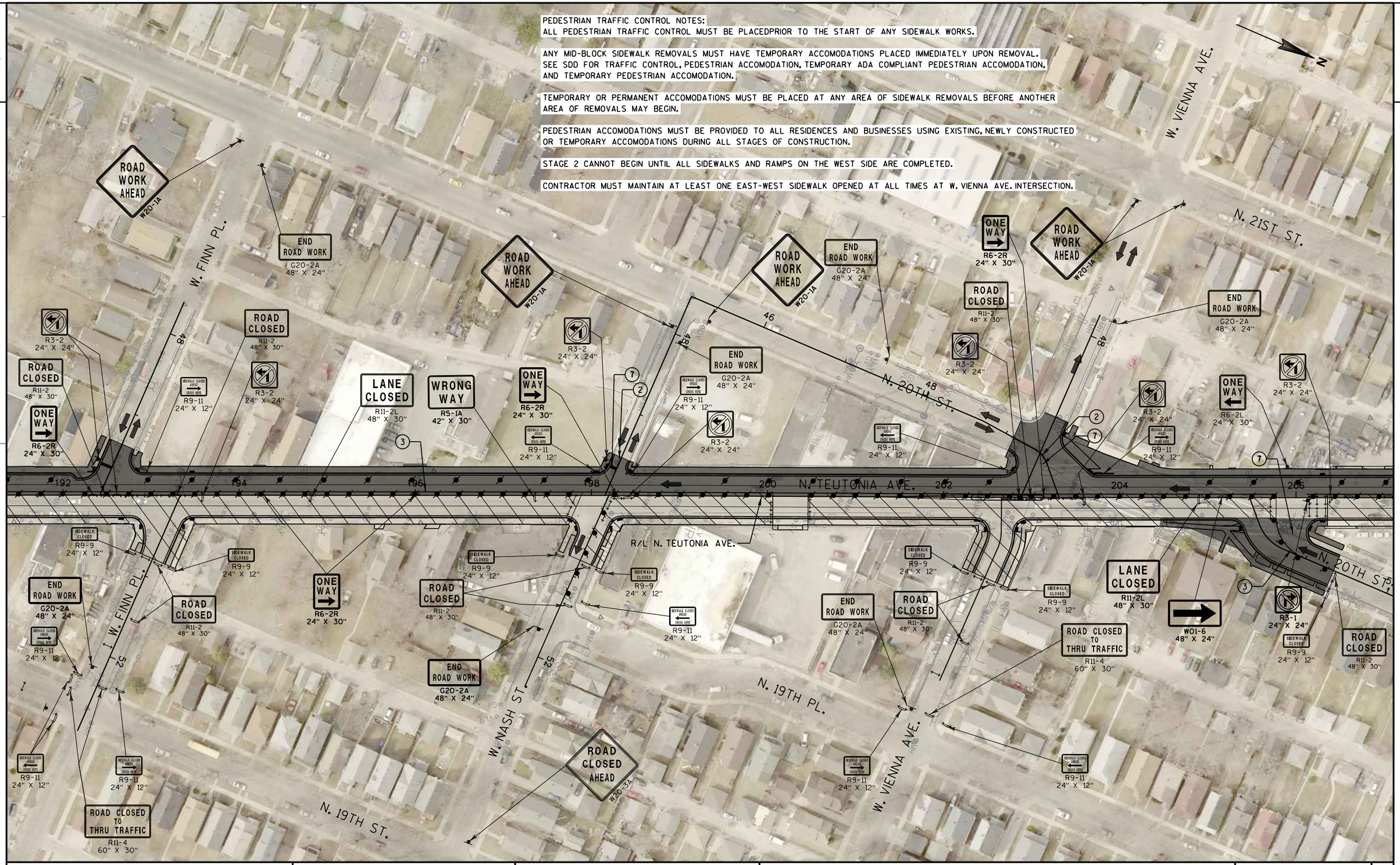
CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALL TIMES AT W. VIENNA AVE. INTERSECTION.



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 218	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025205_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

PEDESTRIAN TRAFFIC CONTROL NOTES:
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STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

PLACE PCMS SIGN 1000-FT NORTH OF THE W. ATKINSON AVE. INTERSECTION FACING SOUTHBOUND DURING CLOSURE.

CLOSURE MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

ROAD WORK AHEAD W20-1A
W. MELVINA ST.
N. 22ND ST.
W. CAPITOL DR.
N. 21ST ST.
N. TEUTONIA AVE.
N. 20TH ST.
W. MELVINA ST.
N

END ROAD WORK G20-2A 48" X 24"
ROAD CLOSED R11-2 48" X 30"
WRONG WAY R5-1A 42" X 30"
ONE WAY R6-2R 24" X 30"
R3-2 24" X 24"
R9-11 24" X 12"
SIDEWALK CLOSED R9-9 24" X 12"
LANE CLOSED R11-2L 48" X 30"
ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"
PCMS

208 210 212 214 216
48 52

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 219	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025206_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

2

2

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ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACED PRIOR TO THE START OF ANY SIDEWALK WORK.

ANY MID-BLOCK SIDEWALK REMOVALS MUST HAVE TEMPORARY ACCOMODATIONS PLACED IMMEDIATELY UPON REMOVAL. SEE SDD FOR TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION, AND TEMPORARY PEDESTRIAN ACCOMMODATION.

TEMPORARY OR PERMANENT ACCOMMODATIONS MUST BE PLACED AT ANY AREA OF SIDEWALK REMOVALS BEFORE ANOTHER AREA OF REMOVALS MAY BEGIN.

PEDESTRIAN ACCOMODATIONS MUST BE PROVIDED TO ALL RESIDENCES AND BUSINESSES USING EXISTING, NEWLY CONSTRUCTED OR TEMPORARY ACCOMODATIONS DURING ALL STAGES OF CONSTRUCTION.

STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALL TIMES AT W. CHAMBERS ST. INTERSECTION.

N

PLACE PCMS SIGN IN NORTHEAST CORNER OF THE W. HADLEY ST. INTERSECTION FACING NORTHBOUND TRAFFIC DURING.

CLOSURE MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

PLACE SIGN IN SOUTHWEST CORNER OF THE W. LOCUST ST. INTERSECTION FACING NORTHBOUND TRAFFIC 3 DAYS PRIOR TO CLOSURE.

PRIOR TO CLOSURE FIXED MESSAGE:
ROAD CLOSED ON
XX/XX/XX

DURING CLOSURE FIXED MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

W. LOCUST ST.
W. HOPKINS ST.
W. GROELING AVE.
W. CHAMBERS ST.
N. TEUTONIA AVE.
R/L N. TEUTONIA AVE.
W. COLUMBIA ST.
W. BURLEIGH ST.
N. 16TH ST.

ROAD WORK AHEAD W20-1A
END ROAD WORK G20-2A 48" X 24"
R3-2 24" X 24"
ONE WAY R6-2R 24" X 30"
R3-1 24" X 24"
LANE CLOSED R11-2L 48" X 30"
ROAD CLOSED R11-2 48" X 30"
SIDEWALK CLOSED R9-9 24" X 12"
SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"
WRONG WAY R5-1A 42" X 30"
ROAD CLOSED AHEAD W20-3A
ROAD CLOSED 1000 FT W20-3C
ROAD CLOSED 500 FT W20-3D
PCMS MB
500' 500' 500'

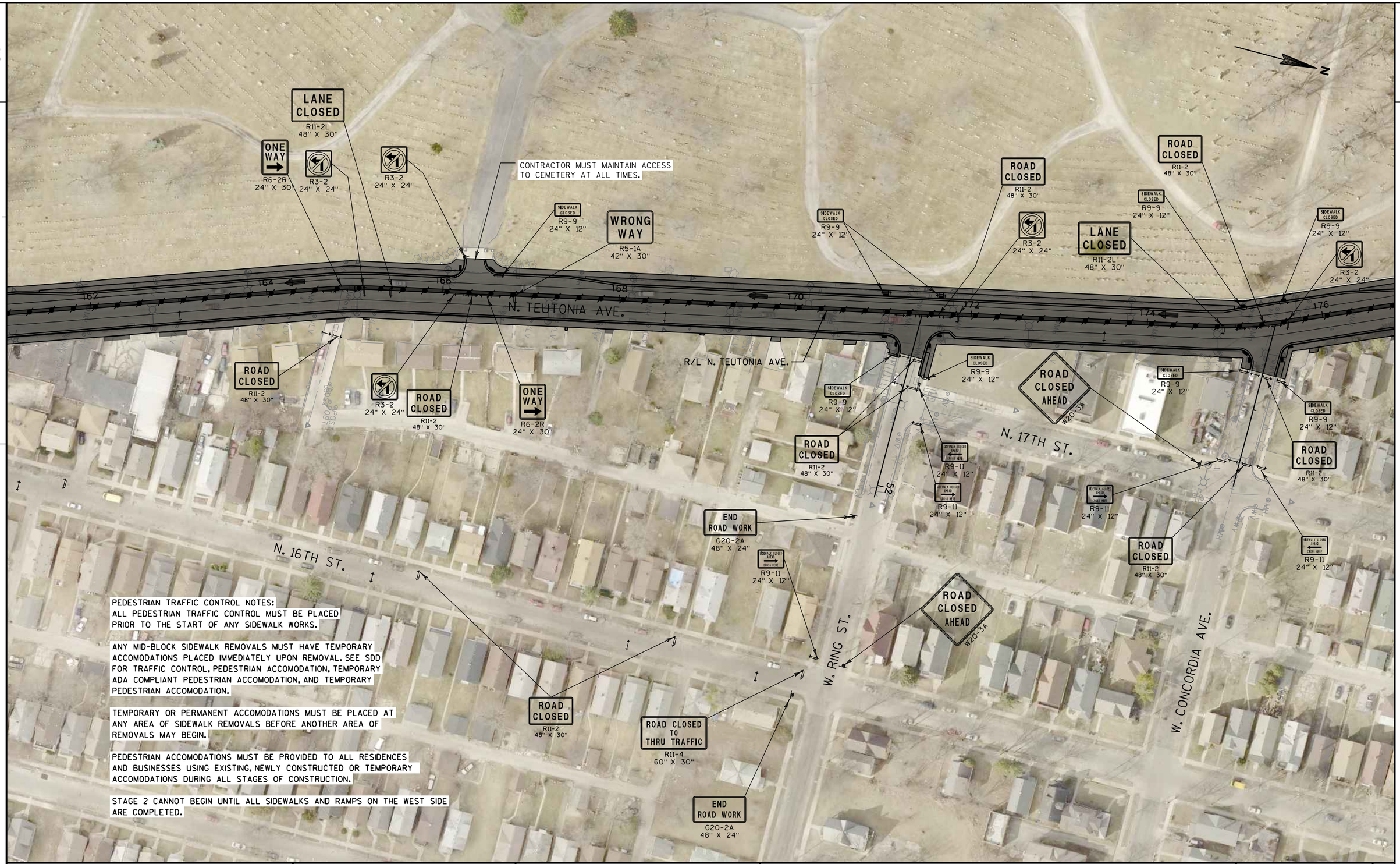
PROJECT NO: 2080-00-72 | HWY: N. TEUTONIA AVE | COUNTY: MILWAUKEE | TRAFFIC CONTROL STAGE 2B | SHEET 220 E

2

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B	SHEET 221	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\025212_TC.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

2



PEDESTRIAN TRAFFIC CONTROL NOTES:
ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACED PRIOR TO THE START OF ANY SIDEWALK WORKS.

ANY MID-BLOCK SIDEWALK REMOVALS MUST HAVE TEMPORARY ACCOMODATIONS PLACED IMMEDIATELY UPON REMOVAL. SEE SDD FOR TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMODATION, AND TEMPORARY PEDESTRIAN ACCOMODATION.

TEMPORARY OR PERMANENT ACCOMODATIONS MUST BE PLACED AT ANY AREA OF SIDEWALK REMOVALS BEFORE ANOTHER AREA OF REMOVALS MAY BEGIN.

PEDESTRIAN ACCOMODATIONS MUST BE PROVIDED TO ALL RESIDENCES AND BUSINESSES USING EXISTING, NEWLY CONSTRUCTED OR TEMPORARY ACCOMODATIONS DURING ALL STAGES OF CONSTRUCTION.

STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B	SHEET 222	E

PEDESTRIAN TRAFFIC CONTROL NOTES:
ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACED PRIOR TO THE START OF ANY SIDEWALK WORKS.

ANY MID-BLOCK SIDEWALK REMOVALS MUST HAVE TEMPORARY ACCOMODATIONS PLACED IMMEDIATELY UPON REMOVAL. SEE SDD FOR TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMODATION, AND TEMPORARY PEDESTRIAN ACCOMODATION.

TEMPORARY OR PERMANENT ACCOMODATIONS MUST BE PLACED AT ANY AREA OF SIDEWALK REMOVALS BEFORE ANOTHER AREA OF REMOVALS MAY BEGIN.

PEDESTRIAN ACCOMODATIONS MUST BE PROVIDED TO ALL RESIDENCES AND BUSINESSES USING EXISTING, NEWLY CONSTRUCTED OR TEMPORARY ACCOMODATIONS DURING ALL STAGES OF CONSTRUCTION.

STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED..

ROAD WORK AHEAD W20-1A

W. KEEFE AVE.

N. TEUTONIA AVE.

178 180 182 184 186 188 190

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

SIDEWALK CLOSED R9-9 24" X 12"

R3-2 24" X 24"

WRONG WAY R5-1A 42" X 30"

3

LANE CLOSED R11-2L 48" X 30"

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

SIDEWALK CLOSED R9-9 24" X 12"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"

R3-2 24" X 24"

ROAD CLOSED R11-2 48" X 30"

7

R3-2 24" X 24"

ONE WAY R6-2R 24" X 30"

END ROAD WORK G20-2A 48" X 24"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"

WRONG WAY R5-1A 42" X 30"

R3-2 24" X 24"

SIDEWALK CLOSED R9-9 24" X 12"

R/L N. TEUTONIA AVE.

52

N. 18TH ST.

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED R11-2 48" X 30"

END ROAD WORK G20-2A 48" X 24"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"

SIDEWALK CLOSED R9-9 24" X 12"

END ROAD WORK G20-2A 48" X 24"

W. KEEFE AVE.

52

ROAD CLOSED R11-2 48" X 30"

R3-2 24" X 24"

SIDEWALK CLOSED R9-9 24" X 12"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"

ONE WAY R6-2R 24" X 30"

ROAD CLOSED R11-2 48" X 30"

52

N. 19TH ST.

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" X 12"

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED R11-2 48" X 30"

END ROAD WORK G20-2A 48" X 24"

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B	SHEET 223	E

PEDESTRIAN TRAFFIC CONTROL NOTES:
ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACEDPRIOR TO THE START OF ANY SIDEWALK WORKS.

ANY MID-BLOCK SIDEWALK REMOVALS MUST HAVE TEMPORARY ACCOMODATIONS PLACED IMMEDIATELY UPON REMOVAL. SEE SDD FOR TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMODATION, AND TEMPORARY PEDESTRIAN ACCOMODATION.

TEMPORARY OR PERMANENT ACCOMODATIONS MUST BE PLACED AT ANY AREA OF SIDEWALK REMOVALS BEFORE ANOTHER AREA OF REMOVALS MAY BEGIN.

PEDESTRIAN ACCOMODATIONS MUST BE PROVIDED TO ALL RESIDENCES AND BUSINESSES USING EXISTING, NEWLY CONSTRUCTED OR TEMPORARY ACCOMODATIONS DURING ALL STAGES OF CONSTRUCTION.

SIDEWALKS TO BE DONE ON THE WEST SIDE AFTER STAGE 1 IS COMPLETED. STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

CONTRACTOR MUST MAINTAIN AT LEAST ONE EAST-WEST SIDEWALK OPENED AT ALL TIMES AT W. NASH ST. INTERSECTION AND W. VIENNA AVE./N. 20TH ST. INTERSECTION.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B	SHEET 224 E

PEDESTRIAN TRAFFIC CONTROL NOTES:
ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACED PRIOR TO THE START OF ANY SIDEWALK WORKS.

ANY MID-BLOCK SIDEWALK REMOVALS MUST HAVE TEMPORARY ACCOMODATIONS PLACED IMMEDIATELY UPON REMOVAL. SEE SDD FOR TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMODATION, AND TEMPORARY PEDESTRIAN ACCOMODATION.

TEMPORARY OR PERMANENT ACCOMODATIONS MUST BE PLACED AT ANY AREA OF SIDEWALK REMOVALS BEFORE ANOTHER AREA OF REMOVALS MAY BEGIN.

PEDESTRIAN ACCOMODATIONS MUST BE PROVIDED TO ALL RESIDENCES AND BUSINESSES USING EXISTING, NEWLY CONSTRUCTED OR TEMPORARY ACCOMODATIONS DURING ALL STAGES OF CONSTRUCTION.

STAGE 2 CANNOT BEGIN UNTIL ALL SIDEWALKS AND RAMPS ON THE WEST SIDE ARE COMPLETED.

PLACE PCMS SIGN 1000-FT NORTH OF THE W. ATKINSON AVE. INTERSECTION FACING SOUTHBOUND DURING CLOSURE.

CLOSURE MESSAGE:
ROAD CLOSED AHEAD
USE ALT ROUTE

N. TEUTONIA AVE.
W. MELVINA ST.
N. 22ND ST.
W. CAPITOL DR.
N. 21ST ST.
N. 20TH ST.

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B	SHEET 225	E

2

CURVE T-1	CURVE CH-1
PC = 155+24.66	PC = 47+89.62
X = 2552746.53	X = 2552583.58
Y = 398170.59	Y = 397974.13
PI = 155+78.24	PI = 48+32.88
X = 2552732.56	X = 2552626.85
Y = 398222.32	Y = 397974.27
PT = 156+31.78	PT = 48+75.94
X = 2552714.95	X = 2552669.45
Y = 398272.92	Y = 397981.85
R = 1500.0000	R = 500.0000
DELTA = 4°05'30" LT	DELTA = 9°53'30" LT
D = 3°49'11"	D = 11°27'33"
L = 107.1184	L = 86.3210
T = 53.5820	T = 43.2680
BK = N 15°06'20" W	BK = N 89°48'35" E
AH = N 19°11'50" W	AH = N 79°55'05" E

N

R/L W. CHAMBERS ST

POB 47+01.69
X=2552495.65
Y=397973.84

N89°48'35"E
87.92'

PC 47+89.62
X=2552583.58
Y=397974.13

CURVE CH-1

W. CHAMBERS ST

48

BEGIN CONSTRUCTION
STA 48+24.45

BEGIN PROJECT 2080-00-72
STA 149+76.53
X=2552887.92
Y=397641.01

PT 48+75.94
X=2552669.45
Y=397981.85

STA 153+51.67 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. CHAMBERS ST

N79°55'05"E
124.06'

R/L N. TEUTONIA AVE

POB 149+27.88
X=2552900.85
Y=397594.11

PI 153+55.49
X=2552790.61
Y=398007.27

PC 155+24.66
X=2552746.53
Y=398170.59

PT 156+31.78
X=2552746.53
Y=398170.59

N19°11'50"W
833.46'

150

N14°52'44"W
378.96'

152

94.8°

N15°06'20"W
169.17'

154

156

158

160

162

N. TEUTONIA AVE

72.37°

109.04°

104.81°

N15°24'55"W
48.65'

STA 153+55.49 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. CHAMBERS ST

CURVE T-1

STA 157+01.38 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. COLUMBIA ST

STA 160+16.61 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. BURLEIGH ST

N89°50'46"E
130.50'

N88°25'46"E
226.63'

W. GROELING AVE

PI 149+76.53
X=2552887.92
Y=397641.01

W. CHAMBERS ST

W. COLUMBIA ST

W. BURLEIGH ST

PI 51+40.41
X=2552931.02
Y=398007.98

END CONSTRUCTION
STA 51+11.00

N89°42'30"E
140.41'

END CONSTRUCTION
STA 50+79.80

PI 51+30.50
X=2552822.55
Y=398339.01

END CONSTRUCTION
STA 51+86.55

51

52

R/L W. CHAMBERS ST

POE 52+62.35
X=2553052.96
Y=398008.14

N89°55'23"E
121.94'

N89°44'53"E
146.96'

PI 52+26.63
X=2552814.95
Y=398642.56

R/L W. BURLEIGH ST

N89°59'35"E
96.74'

R/L W. COLUMBIA ST

POE 52+77.46
X=2552969.51
Y=398339.65

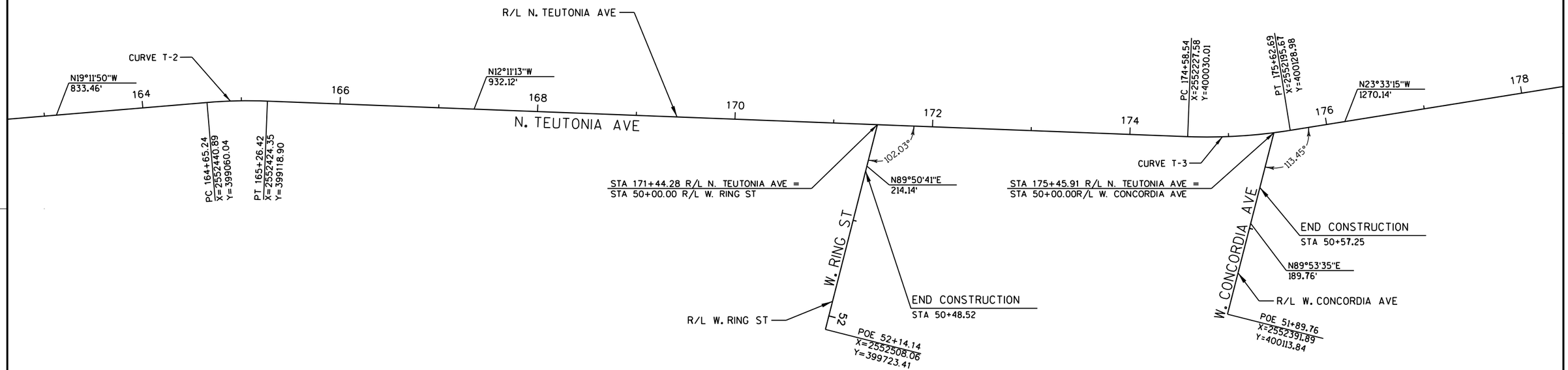
POE 53+23.37
X=2552911.69
Y=398642.57

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 226	E

2

CURVE T-2
PC = 164+65.24
X = 2552440.89
Y = 399060.04
PI = 164+95.87
X = 2552430.82
Y = 399088.96
PT = 165+26.42
X = 2552424.35
Y = 399118.90
R = 500.0000
DELTA = 7°00'37" RT
D = 11°27'33"
L = 61.1752
T = 30.6258
BK = N 19°11'50" W
AH = N 12°11'13" W

CURVE T-3
PC = 174+58.54
X = 2552227.58
Y = 400030.01
PI = 175+10.79
X = 2552216.55
Y = 400081.08
PT = 175+62.69
X = 2552195.67
Y = 400128.98
R = 525.0000
DELTA = 11°22'02" LT
D = 10°54'49"
L = 104.1578
T = 52.2504
BK = N 12°11'13" W
AH = N 23°33'15" W



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 227	E

2

CURVE 18-1
PC = 50+24.39
X = 2552069.85
Y = 400475.59
PI = 50+32.09
X = 2552075.60
Y = 400480.71
PT = 50+38.85
X = 2552075.54
Y = 400488.41
R = 17.0000
DELTA = 48°42'59" LT
D = 337°02'02"
L = 14.4545
T = 7.6966
BK = N 48°17'04" E
AH = N 0°25'55" W

CURVE 19-1
PC = 50+37.30
X = 2551726.10
Y = 401291.69
PI = 50+67.64
X = 2551756.44
Y = 401291.68
PT = 50+84.76
X = 2551756.11
Y = 401322.01
R = 30.0000
DELTA = 90°38'13" LT
D = 190°59'09"
L = 47.4574
T = 30.3354
BK = S 89°58'46" E
AH = N 0°36'59" W

N

POB 46+80.09
X=2551368.89
Y=401291.82

S89°58'46"E
357.21'

R/L W. KEEFE AVE

W. KEEFE AVE

48

BEGIN CONSTRUCTION
STA 49+39.62

STA 188+31.10 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. KEEFE AVE

STA 188+31.10 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L N. 19TH ST

PI 188+32.83
X=2551688.10
Y=401293.29

N23°31'01"W
982.54'

R/L N. TEUTONIA AVE

STA 179+23.10 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L N. 18TH ST

N23°33'15"W
1270.14'

178 180 182 184 186 188 190 192

N. TEUTONIA AVE

50

N48°17'04"E
24.39'

71.84°

PC 50+24.39
X=2552069.85
Y=400475.59

CURVE 18-1

PT 50+38.85
X=2552075.54
Y=400488.41

R/L N. 18TH ST

N. 18TH ST

52

POE 52+53.86
X=2552073.92
Y=400703.42

N00°25'55"W
215.02'

END CONSTRUCTION
STA 51+35.27

STA 186+36.59 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. KEEFE AVE

113.59°

W. KEEFE AVE

52

R/L W. KEEFE AVE

END CONSTRUCTION
STA 50+75.93

S89°57'52"E
347.01'

POE 53+47.01
X=2552113.53
Y=401113.19

PC 50+37.30
X=2551726.10
Y=401291.69

113.54°

CURVE 19-1

PT 50+84.76
X=2551756.11
Y=401322.01

N00°36'59"W
257.15'

R/L N. 19TH ST

N. 19TH ST

52

POE 53+41.91
X=2551753.34
Y=401579.15

END CONSTRUCTION
STA 50+96.51

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 228	E

2

CURVE V-1	CURVE 20-1	CURVE 20-2
PC = 50+38.01	PC = 49+36.98	PC = 50+31.16
X = 2551153.12	X = 2551052.81	X = 2551028.42
Y = 402622.85	Y = 402620.48	Y = 402887.73
PI= 50+48.32	PI= 49+48.42	PI= 50+52.87
X = 2551162.60	X = 2551053.82	X = 2551044.16
Y = 402626.90	Y = 402631.88	Y = 402902.68
PT = 50+58.35	PT = 49+58.84	PT = 50+72.12
X = 2551172.91	X = 2551062.16	X = 2551043.99
Y = 402626.88	Y = 402639.71	Y = 402924.39
R = 50.0000	R = 30.0000	R = 50.0000
DELTA = 23°18'31" RT	DELTA = 41°44'50" RT	DELTA = 46°56'01" LT
D = 114°35'30"	D = 190°59'09"	D = 114°35'30"
L = 20.3405	L = 21.8588	L = 40.9573
T = 10.3129	T = 11.4401	T = 21.7062
BK = N 66°49'40" E	BK = N 5°02'52" E	BK = N 46°28'54" E
AH = S 89°51'50" E	AH = N 46°47'43" E	AH = N 0°27'08" W

N

POB 47+61.20
X=2551286.15
Y=401668.56

R/L W. FINN PL

BEGIN CONSTRUCTION
STA 49+36.84

S89°54'46"E
238.80'

STA 192+41.69 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. FINN PL

W. FINN PL

48

STA 47+53.71 R/L W. NASH ST =
STA 36+55.55 R/L N. 20TH ST

POB 47+53.71
X=2551049.76
Y=402193.95

POB 45+10.18
X=2551049.76
Y=402193.95

W. NASH ST

48

N00°27'08"W
359.81'

R/L N. 20TH ST

46

N89°56'09"E
264.29'

R/L W. NASH ST

BEGIN CONSTRUCTION
STA 49+52.90

N. 20TH ST

48

R/L W. VIENNA AVE

LANDMARK REFERENCE MONUMENT
STA 49+36.77 R/L W VIENNA AVE
SEE CONSTRUCTION DETAIL

PC 49+36.98
X=2551052.81
Y=402620.48

BEGIN CONSTRUCTION
STA 49+09.84

PI 48+69.98
X=2551046.92
Y=402553.75

PI 47+73.81
X=2550883.37
Y=402627.71

N89°57'04"E
226.19'

BEGIN CONSTRUCTION
STA 49+00.19

W. VIENNA AVE

48

STA 49+44.55 R/L N. 20TH ST =
STA 49+44.85 R/L W. VIENNA AVE

CURVE 20-1
PT 49+58.84
X=2551062.16
Y=402639.71

N46°47'43"E
41.16'

STA 203+31.05 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L N. 20TH ST

N05°02'52"E
66.99'

PI 202+85.65
X=2551110.28
Y=402626.26

R/L N. TEUTONIA AVE

N23°31'01"W
982.54'

192

194

196

198

200

202

204

206

113.6°

113.45°

113.22°

70.31°

N23°16'02"W
470.28'

N23°31'06"W
734.58'

STA 198+19.64 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. NASH ST

STA 205+47.41 R/L N. TEUTONIA AVE
STA 50+00.00 R/L N. 20TH ST

N. TEUTONIA AVE

STA 198+15.37 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. NASH ST

113.44°

89.91°

110°

N46°28'54"E
31.16'

PI 198+15.37
X=2551296.05
Y=402194.23

STA 202+65.66 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. VIENNA AVE

PC 50+38.01
X=2551153.12
Y=402622.85

PT 50+58.35
X=2551172.91
Y=402626.88

N23°10'20"W
124.25'

PC 50+31.16
X=2551028.42
Y=402887.73

N. 20TH ST

52

STA 202+87.45 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. VIENNA AVE

N66°49'40"E
38.01'

CURVE 20-2

PT 50+72.12
X=2551043.99
Y=402924.39

END CONSTRUCTION
STA 51+34.40

R/L N. 20TH ST

N00°27'08"W
172.24'

POE 52+44.36
X=2551042.63
Y=403096.62

66.43°

W. FINN PL

52

S89°56'51"E
291.02'

END CONSTRUCTION
STA 50+78.65

R/L W. FINN PL

POE 52+91.67
X=2551780.09
Y=401751.87

R/L W. NASH ST

W. NASH ST

52

END CONSTRUCTION
STA 50+80.21

S89°49'50"E
237.05'

N89°51'50"W
163.82'

R/L W. VIENNA AVE

CURVE V-1

POE 52+22.17
X=2551336.74
Y=402626.49

END CONSTRUCTION
STA 50+94.71

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 229	E

2080-00-72

Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	95.000	95.000
0004	201.0220	Grubbing	ID	95.000	95.000
0006	204.0100	Removing Pavement	SY	45,869.000	45,869.000
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	643.000	643.000
0010	204.0155	Removing Concrete Sidewalk	SY	9,463.000	9,463.000
0012	204.0195	Removing Concrete Bases	EACH	12.000	12.000
0014	204.0210	Removing Manholes	EACH	1.000	1.000
0016	204.0220	Removing Inlets	EACH	68.000	68.000
0018	204.0245	Removing Storm Sewer (size) 001. 8-Inch	LF	1,345.000	1,345.000
0020	204.0250	Abandoning Manholes	EACH	13.000	13.000
0022	205.0100	Excavation Common	CY	25,442.000	25,442.000
0024	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	665.000	665.000
0026	213.0100	Finishing Roadway (project) 001. 2080-00-72	EACH	1.000	1.000
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	24,218.000	24,218.000
0030	415.0085	Concrete Pavement 8 1/2-Inch	SY	38,036.000	38,036.000
0032	415.0210	Concrete Pavement Gaps	EACH	16.000	16.000
0034	415.1085	Concrete Pavement HES 8 1/2-Inch	SY	200.000	200.000
0036	416.0170	Concrete Driveway 7-Inch	SY	1,221.000	1,221.000
0038	416.0270	Concrete Driveway HES 7-Inch	SY	84.000	84.000
0040	416.0610	Drilled Tie Bars	EACH	232.000	232.000
0042	465.0105	Asphaltic Surface	TON	18.000	18.000
0044	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	59.000	59.000
0046	520.8000	Concrete Collars for Pipe	EACH	37.000	37.000
0048	601.0331	Concrete Curb & Gutter 31-Inch	LF	14,752.000	14,752.000
0050	601.0600	Concrete Curb Pedestrian	LF	270.000	270.000
0052	602.0410	Concrete Sidewalk 5-Inch	SF	89,489.000	89,489.000
0054	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	690.000	690.000
0056	602.0615	Curb Ramp Detectable Warning Field Radial Natural Patina	SF	269.000	269.000
0058	602.1000	Concrete Loading Zone	SF	483.000	483.000
0060	608.3012	Storm Sewer Pipe Class III-A 12-Inch	LF	29.000	29.000
0062	608.6008	Storm Sewer Pipe Composite 8-Inch	LF	1,437.000	1,437.000
0064	611.0420	Reconstructing Manholes	EACH	1.000	1.000
0066	611.2004	Manholes 4-FT Diameter	EACH	4.000	4.000
0068	611.8110	Adjusting Manhole Covers	EACH	76.000	76.000
0070	611.8115	Adjusting Inlet Covers	EACH	1.000	1.000
0072	619.1000	Mobilization	EACH	1.000	1.000
0074	623.0200	Dust Control Surface Treatment	SY	51,368.000	51,368.000
0076	624.0100	Water	MGAL	144.000	144.000

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Line	Item	Item Description	Unit	Total	Qty
0078	625.0100	Topsoil	SY	4,590.000	4,590.000
0080	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0082	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0084	628.7005	Inlet Protection Type A	EACH	69.000	69.000
0086	628.7010	Inlet Protection Type B	EACH	124.000	124.000
0088	628.7015	Inlet Protection Type C	EACH	15.000	15.000
0090	629.0210	Fertilizer Type B	CWT	2.600	2.600
0092	631.0300	Sod Water	MGAL	102.500	102.500
0094	631.1000	Sod Lawn	SY	4,590.000	4,590.000
0096	632.0101	Trees (species) (size) (root) 01. Sunburst Honeylocust B&B 3-Inch Cal	EACH	5.000	5.000
0098	632.0101	Trees (species) (size) (root) 02. Callery Pear B&B 3-Inch Cal	EACH	3.000	3.000
0100	632.0101	Trees (species) (size) (root) 03. Autumn Blaze Maple B&B 3.5-Inch Cal	EACH	1.000	1.000
0102	632.0101	Trees (species) (size) (root) 04. Accolade Elm B&B 3-Inch Cal	EACH	2.000	2.000
0104	632.0101	Trees (species) (size) (root) 05. Japanese Tree Lilac B&B 2.5-Inch Cal	EACH	2.000	2.000
0106	632.0101	Trees (species) (size) (root) 06. Tulip Tree B&B 3-Inch Cal	EACH	2.000	2.000
0108	632.0101	Trees (species) (size) (root) 07. Cumulus Serviceberry B&B 3-Inch Cal	EACH	2.000	2.000
0110	632.0101	Trees (species) (size) (root) 08. Kentucky Coffeetree B&B 3-Inch Cal	EACH	2.000	2.000
0112	632.0101	Trees (species) (size) (root) 09. Ironwood B&B 3-Inch Cal	EACH	1.000	1.000
0114	632.0101	Trees (species) (size) (root) 10. American Hornbeam B&B 3-Inch Cal	EACH	2.000	2.000
0116	632.0101	Trees (species) (size) (root) 11. Royal Red Maple B&B 3-Inch Cal	EACH	1.000	1.000
0118	632.0101	Trees (species) (size) (root) 12. Fort MCNair Red Horsechestnut B&B 3-Inch Cal	EACH	4.000	4.000
0120	632.0101	Trees (species) (size) (root) 13. Dawn Redwood B&B 3-Inch Cal	EACH	3.000	3.000
0122	632.0101	Trees (species) (size) (root) 14. Fleming Filligree Crape Myrtle B&B 2.5-Inch Cal	EACH	2.000	2.000
0124	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	1.000	1.000
0126	642.5001	Field Office Type B	EACH	1.000	1.000
0128	643.0300	Traffic Control Drums	DAY	105,818.000	105,818.000
0130	643.0420	Traffic Control Barricades Type III	DAY	76,576.000	76,576.000
0132	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	18.000	18.000

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Line	Item	Item Description	Unit	Total	Qty
0134	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	18.000	18.000
0136	643.0705	Traffic Control Warning Lights Type A	DAY	153,152.000	153,152.000
0138	643.0715	Traffic Control Warning Lights Type C	DAY	105,818.000	105,818.000
0140	643.0800	Traffic Control Arrow Boards	DAY	232.000	232.000
0142	643.0900	Traffic Control Signs	DAY	71,196.000	71,196.000
0144	643.0920	Traffic Control Covering Signs Type II	EACH	15.000	15.000
0146	643.1000	Traffic Control Signs Fixed Message	SF	168.000	168.000
0148	643.1050	Traffic Control Signs PCMS	DAY	556.000	556.000
0150	643.5000	Traffic Control	EACH	1.000	1.000
0152	644.1410	Temporary Pedestrian Surface Asphalt	SF	1,500.000	1,500.000
0154	644.1420	Temporary Pedestrian Surface Plywood	SF	1,100.000	1,100.000
0156	644.1430	Temporary Pedestrian Surface Plate	SF	100.000	100.000
0158	644.1601	Temporary Curb Ramp	DAY	5,668.000	5,668.000
0160	644.1810	Temporary Pedestrian Barricade	LF	800.000	800.000
0162	646.1020	Marking Line Epoxy 4-Inch	LF	9,327.000	9,327.000
0164	646.3020	Marking Line Epoxy 8-Inch	LF	698.000	698.000
0166	646.5020	Marking Arrow Epoxy	EACH	40.000	40.000
0168	646.5120	Marking Word Epoxy	EACH	8.000	8.000
0170	646.5220	Marking Symbol Epoxy	EACH	32.000	32.000
0172	646.8120	Marking Curb Epoxy	LF	20.000	20.000
0174	646.8220	Marking Island Nose Epoxy	EACH	2.000	2.000
0176	646.9000	Marking Removal Line 4-Inch	LF	80.000	80.000
0178	646.9300	Marking Removal Special Marking	EACH	2.000	2.000
0180	649.0105	Temporary Marking Line Paint 4-Inch	LF	7,128.000	7,128.000
0182	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	11,510.000	11,510.000
0184	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	258.000	258.000
0186	650.4000	Construction Staking Storm Sewer	EACH	71.000	71.000
0188	650.4500	Construction Staking Subgrade	LF	8,161.000	8,161.000
0190	650.5000	Construction Staking Base	LF	8,161.000	8,161.000
0192	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	15,089.000	15,089.000
0194	650.8500	Construction Staking Electrical Installations (project) 001. 2080-00-72	LS	1.000	1.000
0196	650.9000	Construction Staking Curb Ramps	EACH	92.000	92.000
0198	650.9910	Construction Staking Supplemental Control (project) 001. 2080-00-72	LS	1.000	1.000
0200	650.9920	Construction Staking Slope Stakes	LF	8,161.000	8,161.000
0202	652.0220	Conduit Rigid Nonmetallic Schedule 40 1 1/2-Inch	LF	70.000	70.000
0204	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	432.000	432.000
0206	652.0230	Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	LF	24,800.000	24,800.000
0208	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	2,654.000	2,654.000

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Line	Item	Item Description	Unit	Total	Qty
0210	652.0330	Conduit Rigid Nonmetallic Schedule 80 2 1/2-Inch	LF	2,600.000	2,600.000
0212	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	1,550.000	1,550.000
0214	652.0610	Conduit Special 2 1/2-Inch	LF	220.000	220.000
0216	654.0101	Concrete Bases Type 1	EACH	18.000	18.000
0218	654.0105	Concrete Bases Type 5	EACH	62.000	62.000
0220	654.0110	Concrete Bases Type 10	EACH	9.000	9.000
0222	655.0305	Cable Type UF 2-12 AWG Grounded	LF	2,100.000	2,100.000
0224	657.0100	Pedestal Bases	EACH	18.000	18.000
0226	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	63.000	63.000
0228	657.0350	Poles Type 10	EACH	9.000	9.000
0230	657.0520	Monotube Arms 20-FT	EACH	2.000	2.000
0232	657.0525	Monotube Arms 25-FT	EACH	7.000	7.000
0234	690.0150	Sawing Asphalt	LF	1,598.000	1,598.000
0236	690.0250	Sawing Concrete	LF	1,618.000	1,618.000
0238	715.0415	Incentive Strength Concrete Pavement	DOL	11,467.770	11,467.770
0240	740.0440	Incentive IRI Ride	DOL	5,033.940	5,033.940
0242	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,800.000	1,800.000
0244	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,500.000	1,500.000
0246	SPV.0035	Special 01. Planting Bed Topsoil Mix	CY	24.000	24.000
0248	SPV.0060	Special 001. Inlet Covers Type 57	EACH	69.000	69.000
0250	SPV.0060	Special 003. Manhole Covers Type 58A	EACH	2.000	2.000
0252	SPV.0060	Special 004. Inlets Type 44A	EACH	49.000	49.000
0254	SPV.0060	Special 005. Catch Basin Type 45A	EACH	18.000	18.000
0256	SPV.0060	Special 007. Internal Sanitary Manhole Seal	EACH	14.000	14.000
0258	SPV.0060	Special 010. Adjusting Water Boxes	EACH	211.000	211.000
0260	SPV.0060	Special 06. Utility Line Opening (ULO)	EACH	40.000	40.000
0262	SPV.0060	Special 12. Pipe Connection to Existing Structure	EACH	34.000	34.000
0264	SPV.0060	Special 13. Section Corner Monuments	EACH	1.000	1.000
0266	SPV.0060	Special 302. Pull Boxes 13-Inch x 24-Inch x 24-Inch	EACH	99.000	99.000
0268	SPV.0060	Special 303. Pull Boxes 17-Inch x 30-Inch x 24-Inch	EACH	34.000	34.000
0270	SPV.0060	Special 304. City Precast Controller Base 36"x21"x20"	EACH	4.000	4.000
0272	SPV.0060	Special 312. Poles Type-2 (A26 Concrete, Direct Bury)	EACH	6.000	6.000
0274	SPV.0060	Special 315. Poles Type-7 (22 Ft. Aluminum, Direct Bury)	EACH	1.000	1.000
0276	SPV.0060	Special 319. Poles Type-11	EACH	5.000	5.000
0278	SPV.0060	Special 320. Poles Type-12	EACH	57.000	57.000
0280	SPV.0060	Special 332. Metal Pedestal Cabinet 4-Inch x 4-Inch x 36-Inch	EACH	14.000	14.000
0282	SPV.0060	Special 375. Luminaire Utility LED 2	EACH	5.000	5.000
0284	SPV.0060	Special 376. Luminaire Utility LED 3	EACH	63.000	63.000

Line	Item	Item Description	Unit	Total	Qty
0286	SPV.0060	Special 400. Adjusting CUC Manhole Cover	EACH	4.000	4.000
0288	SPV.0060	Special 401. 4' Diameter Manhole Type CUC	EACH	7.000	7.000
0290	SPV.0060	Special 402. 5' Diameter Manhole Type CUC	EACH	2.000	2.000
0292	SPV.0060	Special 410. 4' Diameter "Doghouse" Manhole Type CUC	EACH	1.000	1.000
0294	SPV.0060	Special 412. 5' Diameter "Doghouse" Manhole Type CUC	EACH	1.000	1.000
0296	SPV.0060	Special 413. 5' Diameter "Doghouse" Manhole Type CUC Installed Over Conduit	EACH	3.000	3.000
0298	SPV.0060	Special 420. Removing CUC Manhole	EACH	2.000	2.000
0300	SPV.0060	Special 425. Installing Conduit Into Existing Manhole	EACH	7.000	7.000
0302	SPV.0060	Special 426. Sawing Concrete Encased Duct Package	EACH	1.000	1.000
0304	SPV.0060	Special 801. Poles Type 6 (H17 Concrete, Direct Bury)	EACH	3.000	3.000
0306	SPV.0060	Special 838. Luminaire Arms Single Member 6-Ft - City Furnished	EACH	72.000	72.000
0308	SPV.0060	Special 865. Luminaire Historic Milwaukee Harp LED1	EACH	3.000	3.000
0310	SPV.0060	Special 866. Luminaire Historic Milwaukee Lantern LED 2	EACH	1.000	1.000
0312	SPV.0060	Special 867. Luminaire Historic Milwaukee Lantern LED3	EACH	5.000	5.000
0314	SPV.0090	Special 001. Construction Staking Concrete Sidewalk	LF	15,089.000	15,089.000
0316	SPV.0090	Special 002. Marking Crosswalk Epoxy 12-Inch	LF	2,479.000	2,479.000
0318	SPV.0090	Special 003. Marking Line Epoxy 6-Inch	LF	9,193.000	9,193.000
0320	SPV.0090	Special 004. Marking Stop Line Epoxy 24-Inch	LF	334.000	334.000
0322	SPV.0090	Special 305. Electrical Cable Type 3#8/1#8 Low Thermal Plastic	LF	4,480.000	4,480.000
0324	SPV.0090	Special 306. Electrical Cable Type 3#6/1#8 Low Thermal Plastic	LF	4,560.000	4,560.000
0326	SPV.0090	Special 307. Electrical Cable Type 3#4/1#8 Low Thermal Plastic	LF	2,160.000	2,160.000
0328	SPV.0090	Special 308. Electrical Cable Type 3#2/1#8 Low Thermal Plastic	LF	3,200.000	3,200.000
0330	SPV.0090	Special 319. Liquidtight Flexible Nonmetallic Conduit 1 1/2-Inch	LF	50.000	50.000
0332	SPV.0090	Special 402. 2-Duct Conduit Cement Encased 4-Inch Rigid Nonmetallic DB-60	LF	249.000	249.000
0334	SPV.0090	Special 404. 4-Duct Conduit Cement Encased 4-Inch Rigid Nonmetallic DB-60	LF	430.000	430.000
0336	SPV.0090	Special 406. 6-Duct Conduit Cement Encased 4-Inch Rigid Nonmetallic DB-60	LF	6,547.000	6,547.000
0338	SPV.0090	Special 408. 8-Duct Conduit Cement Encased 4-Inch Rigid Nonmetallic DB-60	LF	69.000	69.000

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Line	Item	Item Description	Unit	Total	Qty
0340	SPV.0180	Special 001. Joint Sealing	SY	38,236.000	38,236.000
0342	SPV.0195	Special 001. Management of Solid Waste	TON	1,227.000	1,227.000

2

CURVE 21-1	CURVE 21-2
PC = 49+36.98	PC = 50+37.20
X = 2551052.81	X = 2550689.05
Y = 402620.48	Y = 403685.70
PI = 49+48.42	PI = 50+59.22
X = 2551053.82	X = 2550705.18
Y = 402631.88	Y = 403700.68
PT = 49+58.84	PT = 50+78.68
X = 2551062.16	X = 2550705.03
Y = 402639.71	Y = 403722.70
R = 30.0000	R = 50.0000
DELTA = 41°44'50" RT	DELTA = 47°32'04" LT
D = 190°59'09"	D = 114°35'30"
L = 21.8588	L = 41.4817
T = 11.4401	T = 22.0185
BK = N 5°02'52" E	BK = N 47°07'27" E
AH = N 46°47'43" E	AH = N 0°24'37" W

N

POB 47+57.20
X=2550574.35
Y=403300.49

S89°46'29"E
182.73'

STA 48+90.72 R/L W. MELVINA ST =
STA 48+17.10 R/L N. 21ST ST

BEGIN CONSTRUCTION
STA 48+80.52

N00°23'28"W
166.52'

R/L N. 21ST ST

PC 49+37.56
X=2550707.04
Y=403420.58

CURVE 21-1

N46°28'54"E
37.90'

STA 214+12.86 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L N. 21ST ST

R/L N. TEUTONIA AVE

POE 216+90.46
X=2550554.19
Y=403916.29

POB 47+71.04
X=2550708.18
Y=403254.06

48

W. MELVINA ST

48

BEGIN CONSTRUCTION
STA 49+23.76

90.55°

S89°51'08"E
107.81'

PT 49+62.10
X=2550716.38
Y=403442.54

69.95°

STA 212+04.27 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L N. 21ST ST

N22°48'17"W
370.09'

208

210

212

214

216

N. TEUTONIA AVE

N23°31'06"W
734.58'

66.32°

50

N23°27'57"W
300.13'

110.07°

N47°07'27"E
37.20'

END PROJECT 2080-00-72
STA 216+21.33
X=2550580.98
Y=403852.57

R/L W. MELVINA ST

PI 210+20.23
X=2550817.15
Y=403299.82

STA 210+20.23 R/L N. TEUTONIA AVE =
STA 50+00.00 R/L W. MELVINA ST

PI 213+20.37
X=2550697.64
Y=403575.13

PC 50+37.20
X=2550689.05
Y=403685.70

N00°24'37"W
137.98'

POE 52+16.66
X=2550704.04
Y=403860.68

52

POE 51+64.89
X=2550982.03
Y=403299.36

W. MELVINA ST

CURVE 21-2

PT 50+78.68
X=2550705.03
Y=403722.70

N. 21ST ST

52

POE 52+44.36
X=2551042.63
Y=403096.62

END CONSTRUCTION
STA 50+99.30

END CONSTRUCTION
STA 51+20.28

S89°52'00"E
220.61'

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 236	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\027205_AD.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

3

CLEARING AND GRUBBING

STATION	OFFSET	LOCATION	201.0120 CLEARING ID	201.0220 GRUBBING ID
50+31.56	RT	18TH ST	22	22
50+83.86	RT	18TH ST	23	23
50+63.63	LT	KEEFE AVE	18	18
50+62.66	RT	20TH ST	11	11
50+73.09	RT	21ST ST	21	21
TOTALS CATEGORY 0010			**95**	**95**

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION		STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY
48+14.43	-	48+24.45	CHAMBERS (WEST)	41
51+11.00	-	51+21.00	CHAMBERS (EAST)	28
51+09.87	-	52+02.34	BURLEIGH	101
50+00.00	-	50+67.25	CONCORDIA	29
51+35.27	-	51+45.27	18TH	29
50+75.93	-	50+85.93	KEEFE (EAST)	36
50+96.51	-	51+06.51	19TH	29
49+26.86	-	49+36.86	FINN (WEST)	29
50+78.65	-	50+88.65	FINN (EAST)	29
49+42.90	-	49+52.90	NASH (WEST)	20
50+80.21	-	50+90.21	NASH (EAST)	28
48+99.80	-	49+09.80	20TH (SOUTH)	38
50+94.71	-	51+04.71	VIENNA (EAST)	34
51+34.41	-	51+44.41	20TH (NORTH)	38
49+13.76	-	50+00.00	MELVINA (WEST)	35
50+99.30	-	51+09.30	MELVINA (EAST)	34
48+70.52	-	48+80.52	21ST (SOUTH)	34
51+20.28	-	51+30.28	21ST (NORTH)	33
TOTALS			**CATEGORY 0010**	**643**

REMOVING STORM SEWER PIPES

ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0245.001 REMOVING STORM SEWER 8-INCH LF
N. TEUTONIA AVE						
	152+89	23' LT	-	153+16	1' RT	33
	153+11	23' RT	-	153+16	1' RT	24
	154+00	35' LT	-	153+92	1' RT	35
	156+31	17' RT	-	156+64	24' RT	33
	157+27	23' RT	-	157+31	15' RT	8
	157+38	22' LT	-	157+43	1' LT	21
	157+88	23' RT	-	157+81	19' RT	8
	158+68	22' RT	-	158+64	14' RT	8
	159+63	25' RT	-	159+73	1' RT	24
	160+28	22' LT	-	160+70	1' RT	45
	160+58	22' RT	-	160+69	2' RT	25
	162+44	22' RT	-	162+35	19' RT	8
	163+22	24' LT	-	163+22	0' LT	24
	164+98	22' RT	-	164+90	19' RT	8
	166+65	20' LT	-	167+27	0'	64
	168+16	23' RT	-	168+23	15' RT	8
	169+26	22' LT	-	169+38	1' LT	24
	171+74	20' RT	-	171+88	0'	27
	171+87	23' LT	-	171+88	0'	22
	172+43	22' RT	-	172+34	19' RT	8
	177+79	23' LT	-	177+45	0'	39
	178+69	23' RT	-	178+68	15' RT	8
	180+39	23' RT	-	180+39	15' RT	8
	181+12	17' LT	-	181+11	7' LT	8
	181+20	23' RT	-	181+17	14' RT	8
	183+51	16' LT	-	183+51	7' LT	16
	183+51	23' RT	-	183+51	13' RT	8
	185+39	23' RT	-	185+39	13' RT	8
	185+86	21' LT	-	185+90	1' LT	20
	185+88	22' RT	-	185+90	1' LT	21
	186+70	1' RT	-	187+01	33' RT	45
	187+61	22' LT	-	187+83	2' LT	30
	187+91	26' RT	-	187+85	0'	27
	188+54	23' RT	-	188+80	0'	35
	189+27	22' RT	-	189+32	2' RT	23
	192+11	20' LT	-	191+97	2' LT	26
	192+66	23' RT	-	192+93	0'	33
	194+61	22' RT	-	194+67	16' RT	8
	194+68	22' LT	-	194+74	15' LT	8
	197+67	22' RT	-	197+70	14' RT	8
	198+05	23' LT	-	197+75	0'	32
	200+35	21' LT	-	200+35	13' LT	8
	200+75	22' RT	-	200+91	4' RT	8

REMOVING STORM SEWER PIPES (CONTINUED)

ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0245.001 REMOVING STORM SEWER 8-INCH LF
N. TEUTONIA AVE	202+38	22' RT	-	202+41	4' RT	16
	202+60	21' LT	-	202+55	15' LT	8
	204+30	23' RT	-	204+36	15' RT	8
	206+29	23' LT	-	206+47	5' RT	30
	207+01	23' RT	-	207+00	13' RT	8
	207+82	21' LT	-	207+82	13' LT	8
	208+33	21' RT	-	208+34	13' RT	8
	209+68	22' RT	-	209+68	13' RT	8
	209+90	21' LT	-	210+26	5' RT	46
	210+19	35' LT	-	210+27	4' RT	41
	210+54	23' RT	-	210+45	18' RT	8
	210+72	21' LT	-	210+64	18' LT	8
	211+75	22' LT	-	211+64	6' RT	28
	212+46	34' LT	-	212+45	18' LT	20
	212+84	22' RT	-	212+89	16' RT	8
	215+11	21' LT	-	215+11	13' LT	8
W. CHAMBERS ST.						
	48+59	15' LT	-	48+31	2' LT	31
	49+58	35' RT	-	49+45	23' LT	60
W. COLUMBIA ST.						
	50+33	10' LT	-	50+48	0'	17
	50+45	10' RT	-	50+48	0'	9
W. BURLIEGH ST.						
	50+78	26' RT	-	50+78	12' RT	8
	51+63	19' RT	-	51+73	24' RT	8
W. CONCORDIA AVE.						
	50+36	13' LT	-	50+41	1' RT	13
	50+51	15' RT	-	50+41	1' RT	13
N. 21ST ST.						
	49+18	15' RT	-	49+52	3' RT	33
TOTALS CATEGORY 0010						**1,345**

REMOVING STORM SEWER STRUCTURES

ROADWAY	STATION	OFFSET	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
N. TEUTONIA AVE				
	152+89	23' LT	--	1
	153+10	23' RT	--	1
	156+63	22' RT	--	1
	157+25	23' RT	--	1
	157+38	23' LT	--	1
	157+90	23' RT	--	1
	158+68	23' RT	--	1
	159+64	25' RT	--	1
	160+28	22' LT	--	1
	160+58	23' RT	--	1
	162+44	23' RT	--	1
	163+22	22' LT	--	1
	165+00	22' RT	--	1
	166+65	23' LT	--	1
	168+16	23' RT	--	1
	169+26	23' LT	--	1
	171+74	23' RT	--	1
	171+87	23' LT	--	1
	172+43	23' RT	--	1
	177+79	23' LT	--	1
	178+69	23' RT	--	1
	180+39	23' RT	--	1
	181+12	23' LT	--	1
	181+20	22' RT	--	1
	183+51	22' RT	--	1
	183+51	23' LT	--	1
	185+39	23' RT	--	1
	185+86	23' LT	--	1
	185+88	22' RT	--	1
	187+04	33' RT	--	1
	187+60	23' LT	--	1
	188+54	22' RT	--	1
	189+27	22' RT	--	1
	192+17	23' LT	--	1
	192+66	23' RT	--	1
	194+60	23' RT	--	1
	194+68	22' LT	--	1
	197+67	23' RT	--	1
	198+05	22' LT	--	1
	200+35	23' LT	--	1
	200+73	22' RT	--	1
	202+37	22' RT	--	1
	202+61	23' LT	--	1
	204+30	22' RT	--	1
	206+30	23' LT	--	1
	207+01	22' RT	--	1

REMOVING STORM SEWER STRUCTURES (CONTINUED)

ROADWAY	STATION	OFFSET	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
W. CHAMBERS ST.				
	48+58	17' LT	--	1
	49+57	37' RT	--	1
	49+62	46' LT	--	1
W. COLUMBIA ST.				
	50+33	10' LT	--	1
	50+45	10' RT	--	1
W. BURLIEGH ST.				
	50+79	26' RT	--	1
	51+73	24' RT	--	1
W. CONCORDIA AVE.				
	50+35	13' LT	--	1
	50+51	13' RT	--	1
N. 19TH ST.				
	50+38	26' RT	--	1
N. 20TH ST.				
	50+27	22' RT	1	--
W. MELVINA ST.				
	49+66	13' RT	--	1
N. 21ST ST.				
	49+17	15' RT	--	1
	49+81	53' LT	--	1
TOTALS CATEGORY 0010			**1**	**68**

REMOVING CONCRETE ITEMS

STATION	TO	STATION	LOCATION	OFFSET	204.0100 REMOVING PAVEMENT SY	204.0155 REMOVING CONCRETE SIDEWALK SY
149+76.53	-	170+00.00	TEUTONIA AVE	LT/RT	11583	2261
170+00.00	-	185+00.00	TEUTONIA AVE	LT/RT	8576	1822
185+00.00	-	200+00.00	TEUTONIA AVE	LT/RT	8565	1704
200+00.00	-	216+90.24	TEUTONIA AVE	LT/RT	9391	1636
48+14.43	-	50+00.00	CHAMBERS (WEST)	LT/RT	1015	190
50+00.00	-	51+21.00	CHAMBERS (EAST)	LT/RT	291	104
50+00.00	-	50+79.80	COLUMBIA	LT/RT	154	49
50+00.00	-	52+02.34	BURLEIGH	LT/RT	1152	219
166+20.83	-	166+61.87	CEMETERY DRIVEWAY	LT	46	--
50+00.00	-	50+48.52	RING	LT/RT	84	55
50+00.00	-	50+67.25	CONCORDIA	LT/RT	111	49
50+00.00	-	51+45.27	18TH	LT/RT	414	148
50+00.00	-	50+85.93	KEEFE (EAST)	LT/RT	213	71
50+00.00	-	51+06.51	19TH	LT/RT	609	84
49+39.62	-	50+00.00	KEEFE (WEST)	LT/RT	130	55
49+26.86	-	50+00.00	FINN (WEST)	LT/RT	140	62
50+00.00	-	50+88.65	FINN (EAST)	LT/RT	208	81
49+42.90	-	50+00.00	NASH (WEST)	LT/RT	49	23
50+00.00	-	50+90.21	NASH (EAST)	LT/RT	182	86
48+99.80	-	50+00.00	VIENNA (WEST)	LT/RT	669	74
50+00.00	-	51+04.71	VIENNA (EAST)	LT/RT	262	102
50+00.00	-	51+44.41	20TH (NORTH)	LT/RT	649	166
49+13.76	-	50+00.00	MELVINA (WEST)	LT/RT	182	74
50+00.00	-	51+09.30	MELVINA (EAST)	LT/RT	261	102
48+70.52	-	50+00.00	21ST (SOUTH)	LT/RT	452	154
50+00.00	-	51+30.28	21ST (NORTH)	LT/RT	481	92
TOTALS CATEGORY 0010					**45,869**	**9,463**

EXCAVATION, HAULING AND DISPOSING OF CONTAMINTAED SOIL

PROJECT ID	DESCRIPTION	SPV.0195.001 MANAGEMENT OF SOLID WASTE TON	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL TON
2080-00-72	N. TEUTONIA AVE	1277	665
TOTALS CATEGORY 0010		**1277**	**665**

FINISH ROADWAY

ROADWAY	213.0100 FINISHING ROADWAY (2080-00-72) EACH
N. TEUTONIA AVE	1
TOTAL CATEGORY 0010	**1**

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EARTH WORK SUMMARY

Division	From/To Station		Location	205.0100 Excavation Common (CY) (1)		Salvaged/ Unusable Pavement Material (CY) (2)	Available Material (4)	EBS Backfill (CY) (3)	Unexpanded Fill	Expanded Fill (5)	Mass Ordinate +/- (6)	Waste (7)	Borrow	Comment:
				Cut (2)	EBS Excavation (3)			Factor 1.15		Factor 1.15			Item 208.0100	
	149+77	TO 201+50	TEUTONIA AVENUE	19,396	3,023	0	19,396	3,477	229	263	19,133	22,156	0	
	48+24	TO 51+00	CHAMBERS STREET	667	0	0	667	0	33	38	629	629	0	
	50+24	TO 50+80	COLUMBIA STREET	80	0	0	80	0	1	1	79	79	0	
	50+24	TO 51+87	BURLEIGH STREET	375	0	0	375	0	23	26	349	349	0	
	50+24	TO 50+49	RING STREET	33	0	0	33	0	0	0	33	33	0	
	50+25	TO 50+50	CONCORDIA AVENUE	41	0	0	41	0	1	1	40	40	0	
	50+24	TO 51+35	18TH STREET	232	0	0	232	0	28	32	200	200	0	
	49+40	TO 50+76	KEEFE AVENUE	182	0	0	182	0	0	0	182	182	0	
	50+25	TO 50+46	19TH STREET	176	0	0	176	0	1	1	175	175	0	
	49+37	TO 50+79	FINN PLACE	153	0	0	153	0	2	2	151	151	0	
	49+53	TO 50+80	NASH STREET	128	0	0	128	0	0	0	128	128	0	
	49+00	TO 50+95	VIENNA AVENUE	492	0	0	492	0	9	10	482	482	0	
	50+25	TO 51+34	20TH STREET	227	0	0	227	0	8	9	218	218	0	
	49+24	TO 50+99	MELVINA STREET	209	0	0	209	0	0	0	208	208	0	
	48+81	TO 49+00	21ST STREET	30	0	0	30	0	0	0	30	30	0	
Total				22,419	3,023	0	22,419	3,477	332	382	22,037	25,060	0	
Grand Total Category 0010				25,442		0	22,419	3,477	332	382	22,037	25,060	0	

NOTES:

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100.
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) Known EBS Excavation locations shown in Typical Sections are included in the Cut calculations
   All EBS Excavation to be wasted offsite and to be backfilled with Base Aggregate Dense 1 1/4 Inch. EBS Backfill Factor = 1.15.
   Actual extents and depths of EBS Excavation will be determined by the engineer in the field and may differ from the plan
4) Available Material = Cut - Salvaged/Unusuable Pavement Material
5) Expanded Fill. Factor = 1.15 Expanded Fill = Unexpanded Fill * Fill Factor
   Due to potential soil variability, actual quantities may vary. No quantity adjustments will be made for differing soil expansion factors encountered in the field.
6) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
7) The storm sewer excavation is not included in this table and should be considered additional waste and are considered incidental to the storm sewer items.

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AGGREGATE ITEMS

STATION	-	STATION	LOCATION	305.0120 BASE AGGREGATE DENSE 1-1/4-INCH TON
149+76.53	-	170+00.00	TEUTONIA AVE	4,309
170+00.00	-	185+00.00	TEUTONIA AVE	3,053
185+00.00	-	200+00.00	TEUTONIA AVE	3,379
200+00.00	-	216+90.24	TEUTONIA AVE	3,703
48+14.43	-	50+00.00	CHAMBERS (WEST)	307
50+00.00	-	51+21.00	CHAMBERS (EAST)	139
50+00.00	-	50+79.80	COLUMBIA	69
50+00.00	-	52+02.34	BURLEIGH	338
166+20.83	-	166+61.87	CEMETERY DRIVEWAY	18
166+20.83	-	166+61.87	RING	48
50+00.00	-	50+48.52	CONCORDIA	55
50+00.00	-	50+67.25	18TH	164
50+00.00	-	51+45.27	KEEFE (EAST)	93
50+00.00	-	50+85.93	19TH	119
50+00.00	-	51+06.51	KEEFE (WEST)	66
49+39.62	-	50+00.00	FINN (WEST)	65
49+26.86	-	50+00.00	FINN (EAST)	95
50+00.00	-	50+88.65	NASH (WEST)	24
49+42.90	-	50+00.00	NASH (EAST)	90
50+00.00	-	50+90.21	VIENNA (WEST)	204
48+99.80	-	50+00.00	VIENNA (EAST)	111
50+00.00	-	51+04.71	20TH (NORTH)	237
50+00.00	-	51+44.41	MELVINA (WEST)	84
49+13.76	-	50+00.00	MELVINA (EAST)	127
50+00.00	-	51+09.30	21ST (SOUTH)	196
48+70.52	-	50+00.00	21ST (NORTH)	171
149+76.53	-	152+75.00	TEUTONIA AVE*	1,352
168+50.00	-	171+50.00	TEUTONIA AVE*	1,205
187+50.00	-	190+75.00	TEUTONIA AVE*	1,472
193+75.00	-	197+50.00	TEUTONIA AVE*	1,698
200+50.00	-	203+00.00	TEUTONIA AVE*	1,227
TOTALS			**CATEGORY 0010**	**24,218**

* 12" OF EBS FILLED WITH BASE AGGREGATE DENSE 1 1/4"

CONCRETE ITEMS

STATION	-	STATION	LOCATION	415.0085 CONCRETE PAVEMENT 8 1/2-INCH SY	415.1085 CONCRETE PAVEMENT HES 8 1/2-INCH SY	SPV.0180.001 JOINT SEALING SY	602.0410 CONCRETE SIDEWALK 5-INCH SF	416.0170 CONCRETE DRIVEWAY 7-INCH SY	416.0270 CONCRETE DRIVEWAY HES 7-INCH SY	602.1000 CONCRETE LOADING ZONE SF
149+76.53	-	170+00.00	TEUTONIA AVE	9,454	100	9,554	22,166	252	23	--
170+00.00	-	185+00.00	TEUTONIA AVE	6,741	--	6,741	16,427	215	--	--
185+00.00	-	200+00.00	TEUTONIA AVE	7,612	--	7,612	15,593	265	30	--
200+00.00	-	216+90.24	TEUTONIA AVE	8,363	100	8,463	15,259	422	31	483
48+14.43	-	50+00.00	CHAMBERS (WEST)	671	--	671	1,714	24	--	--
50+00.00	-	51+21.00	CHAMBERS (EAST)	268	--	268	1,264	--	--	--
50+00.00	-	50+79.80	COLUMBIA	134	--	134	607	--	--	--
50+00.00	-	52+02.34	BURLEIGH	733	--	733	1,998	--	--	--
166+20.83	-	166+61.87	CEMETERY DRIVEWAY	46	--	46	--	--	--	--
50+00.00	-	50+48.52	RING	85	--	85	551	--	--	--
50+00.00	-	50+67.25	CONCORDIA	111	--	111	441	--	--	--
50+00.00	-	51+45.27	18TH	323	--	323	1,424	--	--	--
50+00.00	-	50+85.93	KEEFE (EAST)	197	--	197	635	--	--	--
50+00.00	-	51+06.51	19TH	254	--	254	748	--	--	--
49+39.62	-	50+00.00	KEEFE (WEST)	130	--	130	560	--	--	--
49+26.86	-	50+00.00	FINN (WEST)	128	--	128	563	--	--	--
50+00.00	-	50+88.65	FINN (EAST)	195	--	195	730	--	--	--
49+42.90	-	50+00.00	NASH (WEST)	47	--	47	208	--	--	--
50+00.00	-	50+90.21	NASH (EAST)	178	--	178	774	--	--	--
48+99.80	-	50+00.00	VIENNA (WEST)	457	--	457	1,002	--	--	--
50+00.00	-	51+04.71	VIENNA (EAST)	221	--	221	917	--	--	--
50+00.00	-	51+44.41	20TH (NORTH)	506	--	506	1,514	--	--	--
49+13.76	-	50+00.00	MELVINA (WEST)	168	--	168	701	--	--	--
50+00.00	-	51+09.30	MELVINA (EAST)	234	--	234	1,298	44	--	--
48+70.52	-	50+00.00	21ST (SOUTH)	395	--	395	1,561	--	--	--
50+00.00	-	51+30.28	21ST (NORTH)	383	--	383	834	--	--	--
TOTALS			**CATEGORY 0010**	**38,036**	**200**	**38,236**	**89,489**	**1,221**	**84**	**483**

CONCRETE PAVEMENT GAPS

STAGE	STATION	LOCATION	415.0210 CONCRETE PAVEMENT GAPS EACH
1	152+01	TEUTONIA AVE	1
	153+07	TEUTONIA AVE	1
	153+52	TEUTONIA AVE	1
	165+87	TEUTONIA AVE	1
	197+92	TEUTONIA AVE	1
	210+20	TEUTONIA AVE	1
2	153+56	TEUTONIA AVE	1
	157+01	TEUTONIA AVE	1
	197+88	TEUTONIA AVE	1
	200+75	TEUTONIA AVE	1
	205+77	TEUTONIA AVE	1
	UNDISTRIBUTED		5
TOTALS CATEGORY 0010			**16**

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

STATION	-	STATION	LOCATION	465.0120 ASPHLATIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
149+76.53	-	170+00.00	TEUTONIA AVE	15
170+00.00	-	185+00.00	TEUTONIA AVE	2
185+00.00	-	200+00.00	TEUTONIA AVE	17
200+00.00	-	216+90.24	TEUTONIA AVE	24
48+24.45	-	50+00.00	W. CHAMBERS ST (WEST)	1
TOTALS CATEGORY 0010				**59**

DRILLED TIE BARS

ROADWAY	STATION	TO STATION	OFFSET	416.0610 DRILLED TIE BARS EACH
N. TEUTONIA AVE	149+76.53		LT/RT	25
N. TEUTONIA AVE	215+36.7		LT/RT	8
N. TEUTONIA AVE	216+21.33		LT/RT	24
CHAMBERS (WEST)	48+24		LT/RT	20
CHAMBERS (EAST)	51+11		LT/RT	17
COLUMBIA	50+80		LT/RT	14
BURLEIGH	51+10		LT/RT	14
BURLEIGH	52+02		LT/RT	13
RING	50+49		LT/RT	17
CONCORDIA	50+27		LT/RT	17
18TH	51+35		LT/RT	17
KEEFE (EAST)	49+40		LT/RT	19
19TH	50+97		LT/RT	17
KEEFE (WEST)	49+39.62		LT/RT	18
FINN (WEST)	49+37		LT/RT	17
FINN (EAST)	50+79		LT/RT	17
NASH (WEST)	49+53		LT/RT	14
NASH (EAST)	50+80		LT/RT	17
20TH (SOUTH)	49+10		LT/RT	17
VIENNA (WEST)	49+00		LT/RT	14
VIENNA (EAST)	50+95		LT/RT	17
20TH (NORTH)	50+34		LT/RT	20
MELVINA (WEST)	49+24		LT/RT	17
MELVINA (EAST)	50+99		LT/RT	18
21ST (SOUTH)	48+80.52		LT/RT	17
21ST (NORTH)	51+20		LT/RT	17
TOTAL CATEGORY 0010				**232**

HMA PAVEMENT ITEM

STATION	-	STATION	LOCATION	465.0105 ASPHALTIC SURFACE TON
48+14.43	-	48+24.45	CHAMBERS (WEST)	1
51+11.00	-	51+21.00	CHAMBERS (EAST)	1
51+09.87	-	52+02.34	BURLEIGH	2
50+00.00	-	50+67.25	CONCORDIA	1
51+35.27	-	51+45.27	18TH	1
50+75.93	-	50+85.93	KEEFE (EAST)	1
50+96.51	-	51+06.51	19TH	1
49+26.86	-	49+36.86	FINN (WEST)	1
50+78.65	-	50+88.65	FINN (EAST)	1
49+42.90	-	49+52.90	NASH (WEST)	0
50+80.21	-	50+90.21	NASH (EAST)	1
48+99.80	-	49+09.80	20TH (SOUTH)	1
50+94.71	-	51+04.71	VIENNA (EAST)	1
51+34.41	-	51+44.41	20TH (NORTH)	1
49+13.76	-	50+00.00	MELVINA (WEST)	1
50+99.30	-	51+09.30	MELVINA (EAST)	1
48+70.52	-	48+80.52	21ST (SOUTH)	1
51+20.28	-	51+30.28	21ST (NORTH)	1
TOTALS			**CATEGORY 0010**	**18**

CONCRETE CURB AND GUTTER

STATION	-	STATION	LOCATION	601.0331 CONCRETE CURB & GUTTER 31-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF
149+76.53	-	170+00.00	TEUTONIA AVE	3,811	19
170+00.00	-	185+00.00	TEUTONIA AVE	2,852	38
185+00.00	-	200+00.00	TEUTONIA AVE	2,693	133
200+00.00	-	216+90.24	TEUTONIA AVE	2,736	72
48+14.43	-	50+00.00	CHAMBERS (WEST)	299	--
50+00.00	-	51+21.00	CHAMBERS (EAST)	163	--
50+00.00	-	50+79.80	COLUMBIA	100	--
50+00.00	-	52+02.34	BURLEIGH	250	--
166+20.83	-	166+61.87	CEMETERY DRIVEWAY	30	--
50+00.00	-	50+48.52	RING	64	--
50+00.00	-	50+67.25	CONCORDIA	54	--
50+00.00	-	51+45.27	18TH	191	--
50+00.00	-	50+85.93	KEEFE (EAST)	89	--
50+00.00	-	51+06.51	19TH	135	--
49+39.62	-	50+00.00	KEEFE (WEST)	53	--
49+26.86	-	50+00.00	FINN (WEST)	68	--
50+00.00	-	50+88.65	FINN (EAST)	97	--
49+42.90	-	50+00.00	NASH (WEST)	35	--
50+00.00	-	50+90.21	NASH (EAST)	96	8
48+99.80	-	50+00.00	VIENNA (WEST)	97	--
50+00.00	-	51+04.71	VIENNA (EAST)	133	--
50+00.00	-	51+44.41	20TH (NORTH)	179	--
49+13.76	-	50+00.00	MELVINA (WEST)	88	--
50+00.00	-	51+09.30	MELVINA (EAST)	134	--
48+70.52	-	50+00.00	21ST (SOUTH)	157	--
50+00.00	-	51+30.28	21ST (NORTH)	148	--
TOTALS			**CATEGORY 0010**	**14,752**	**270**

CONCRETE COLLARS FOR PIPE

ROADWAY	STATION	OFFSET	520.8000 CONCRETE COLLARS FOR PIPE EACH
N. TEUTONIA AVE			
	156+63.88	2' LT	1
	157+31.20	15' RT	1
	157+80.93	19' RT	1
	158+64.20	14' RT	1
	162+35.07	19' RT	1
	163+22.40	7' LT	1
	164+90.46	19' RT	1
	168+22.51	15' RT	1
	169+24.61	30' LT	1
	172+33.56	19' RT	1
	178+67.58	13' RT	1
	180+38.49	13' RT	1
	181+11.61	7' LT	1
	181+16.84	14' RT	1
	183+50.65	13' RT	1
	183+50.72	7' LT	1
	185+38.84	13' RT	1
	194+66.57	16' RT	1
	194+74.09	15' LT	1
	197+70.40	14' RT	1
	200+44.23	19' LT	1
	200+80.77	17' RT	1
	202+54.92	15' LT	1
	204+35.63	15' RT	1
	207+00.37	13' RT	1
	207+90.44	18' LT	1
	208+34.33	13' RT	1
	209+77.34	20' RT	1
	209+87.57	6' RT	1
	209+92.55	6' RT	1
	210+45.35	18' RT	1
	210+63.52	18' LT	1
	212+89.48	16' RT	1
	215+11.10	13' LT	1
N. 20TH ST.			
	50+35.09	13' RT	1
W. BURLEIGH ST.			
	50+78.41	12' RT	1
	51+63.47	19' RT	1
TOTALS CATEGORY 0010			**37**

CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA

STATION		STATION	LOCATION	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0615 CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF
149+76.53	-	170+00.00	N. TEUTONIA AVE	110	10
170+00.00	-	185+00.00	N. TEUTONIA AVE	110	12
185+00.00	-	200+00.00	N. TEUTONIA AVE	60	76
200+00.00	-	216+90.24	N. TEUTONIA AVE	80	33
48+14.43	-	50+00.00	CHAMBERS (WEST)	20	--
50+00.00	-	51+21.00	CHAMBERS (EAST)	20	--
50+00.00	-	50+79.80	COLUMBIA	--	21
50+00.00	-	52+02.34	BURLEIGH	--	23
166+20.83	-	166+61.87	CEMETERY DRIVEWAY	10	14
50+00.00	-	50+48.52	RING	20	--
50+00.00	-	50+67.25	CONCORDIA	20	--
50+00.00	-	51+45.27	18TH	20	--
50+00.00	-	50+85.93	KEEFE (EAST)	20	--
50+00.00	-	51+06.51	19TH	20	--
49+39.62	-	50+00.00	KEEFE (WEST)	20	--
49+26.86	-	50+00.00	FINN (WEST)	20	--
50+00.00	-	50+88.65	FINN (EAST)	20	--
49+42.90	-	50+00.00	NASH (WEST)	10	11
50+00.00	-	50+90.21	NASH (EAST)	10	10
48+99.80	-	50+00.00	VIENNA (WEST)	20	13
50+00.00	-	51+04.71	VIENNA (EAST)	20	--
50+00.00	-	51+44.41	20TH (NORTH)	10	9
49+13.76	-	50+00.00	MELVINA (WEST)	20	--
50+00.00	-	51+09.30	MELVINA (EAST)	20	--
48+70.52	-	50+00.00	21ST (SOUTH)	--	27
50+00.00	-	51+30.28	21ST (NORTH)	10	10
TOTALS CATEGORY 0010				**690**	**269**

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STORM SEWER ITEMS

LOCATION	STA	OFFSET	EXIST ELEV	PROP ELEV	611.0420 RECONSTRUCTING MANHOLES EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	COMMENT
TEUTONIA AVE	160+69.85	0.6' RT	111.68	111.63	--	1	--	
TEUTONIA AVE	153+16.41	0.6' RT	117.42	117.19	--	1	--	
TEUTONIA AVE	153+92.49	0.4' RT	117.39	117.26	--	1	--	
TEUTONIA AVE	155+11.09	0.0'	116.35	116.48	--	1	--	
TEUTONIA AVE	157+42.51	0.8' LT	113.90	114.10	--	1	--	
TEUTONIA AVE	158+58.08	0.0'	112.92	112.93	--	1	--	
TEUTONIA AVE	159+73.27	0.8' RT	111.81	111.84	--	1	--	
TEUTONIA AVE	160+00.07	18.7' RT	111.25	111.52	--	1	--	
TEUTONIA AVE	161+96.61	0.0'	112.54	112.39	--	1	--	
TEUTONIA AVE	164+52.53	0.6' LT	114.36	114.29	--	1	--	
TEUTONIA AVE	164+95.83	1.9' LT	114.53	114.63	--	1	--	
TEUTONIA AVE	167+28.97	0.7' RT	116.43	116.52	--	1	--	
TEUTONIA AVE	168+35.54	0.5' LT	117.83	117.64	--	1	--	
TEUTONIA AVE	169+38.63	0.8' RT	119.16	119.24	--	1	--	
TEUTONIA AVE	171+03.60	1.0' RT	121.26	121.03	--	1	--	
TEUTONIA AVE	171+88.31	0.2' LT	122.39	122.20	--	1	--	
TEUTONIA AVE	175+21.30	0.8' RT	124.71	124.64	--	1	--	
TEUTONIA AVE	177+46.96	1.0' LT	123.29	123.33	--	1	--	
TEUTONIA AVE	178+65.37	1.1' LT	122.14	122.12	--	1	--	
TEUTONIA AVE	180+38.05	0.2' LT	120.56	120.64	--	1	--	
TEUTONIA AVE	181+11.24	0.2' LT	120.27	120.18	--	1	--	
TEUTONIA AVE	182+30.91	0.0'	119.75	119.72	--	1	--	
TEUTONIA AVE	183+50.55	0.5' RT	119.33	119.29	--	1	--	
TEUTONIA AVE	185+89.77	0.7' LT	118.50	118.49	--	1	--	
TEUTONIA AVE	186+69.07	0.0'	118.44	118.26	--	1	--	
TEUTONIA AVE	187+84.54	0.3' LT	118.22	117.91	--	1	--	
TEUTONIA AVE	188+81.14	0.2' LT	118.03	117.62	--	1	--	
TEUTONIA AVE	189+32.44	0.2' LT	117.79	117.66	--	1	--	
TEUTONIA AVE	191+95.84	0.6' LT	116.58	116.80	--	1	--	
TEUTONIA AVE	192+93.25	0.2' LT	116.08	116.33	--	1	--	
TEUTONIA AVE	194+84.84	0.6' LT	115.03	115.16	--	1	--	
TEUTONIA AVE	197+75.26	0.6' LT	112.69	112.62	--	1	--	
TEUTONIA AVE	198+65.73	0.5' LT	111.74	111.66	--	1	--	
TEUTONIA AVE	198+99.49	5.5' RT	111.46	111.20	--	1	--	
TEUTONIA AVE	200+93.59	5.5' RT	109.26	109.14	--	1	--	
TEUTONIA AVE	202+40.58	4.2' RT	107.67	107.80	--	1	--	
TEUTONIA AVE	202+77.65	22.7' RT	106.83	106.86	--	1	--	
TEUTONIA AVE	203+48.61	15.0' LT	106.18	105.89	--	1	--	
TEUTONIA AVE	204+03.17	38.9' LT	104.25	104.72	--	--	1	
TEUTONIA AVE	204+43.57	4.2' RT	103.10	103.21	--	1	--	
TEUTONIA AVE	206+47.06	4.9' RT	100.89	100.95	--	1	--	
TEUTONIA AVE	206+99.83	4.0' RT	100.32	100.47	--	1	--	
TEUTONIA AVE	208+34.91	4.8' RT	99.27	99.23	--	1	--	
TEUTONIA AVE	209+90.55	5.9' RT	97.33	97.57	--	1	--	
TEUTONIA AVE	210+27.38	6.2' RT	97.23	97.16	--	1	--	
TEUTONIA AVE	211+64.25	5.5' RT	95.57	95.65	--	1	--	
TEUTONIA AVE	212+45.16	18.5' LT	94.78	94.50	--	1	--	
TEUTONIA AVE	213+01.58	4.9' RT	94.38	94.24	--	1	--	
TEUTONIA AVE	213+72.08	34.5' RT	93.63	93.25	--	1	--	
TEUTONIA AVE	214+43.15	2.9' RT	93.49	93.81	--	1	--	
TEUTONIA AVE	215+90.51	2.9' RT	93.02	93.07	--	1	--	

STORM SEWER ITEMS (CONTINUED)

LOCATION	STA	OFFSET	EXIST ELEV	PROP ELEV	611.0420 RECONSTRUCTING MANHOLES EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	COMMENT
CHAMBERS ST (WEST)	48+30	1.0' LT	118.69	118.60	--	1	--	
CHAMBERS ST (WEST)	49+44.60	24.9' LT	117.48	118.09	1	--	--	RECONSTRUCT MH BEHIND PROPOSED CURB
CHAMBERS ST (EAST)	50+83	1.1' RT	115.98	116.29	--	1	--	
COLUMBIA ST	50+48	0.4' LT	113.58	113.61	--	1	--	
BURLEIGH ST.	51+49	13.5' RT	110.27	110.09	--	1	--	
CONCORDIA AVE.	50+40.90	1.0' RT	124.57	124.36	--	1	--	
18TH ST.	50+41	2.8' LT	120.95	120.78	--	1	--	
KEEFE AVE. (EAST)	50+34	0.0'	118.50	117.90	--	1	--	
KEEFE AVE. (WEST)	49+64	1.4' LT	117.47	117.80	--	1	--	
19TH ST.	50+71	4.2' RT	117.78	117.45	--	1	--	
21ST ST. (SOUTH)	49+53	1.0' RT	95.82	95.43	--	1	--	
FINN PL. (WEST)	49+51	2.3' LT	116.08	116.11	--	1	--	
NASH ST. (WEST)	49+60	2.5' RT	112.11	111.98	--	1	--	
VIENNA AVE. (EAST)	49+40.42	4.3' LT	107.48	107.13	--	1	--	
TOTALS CATEGORY 0010					**1**	**63**	**1**	

UTILITY LINE OPENING

PROJECT ID	DESCRIPTION	SPV.0060.06 UTILIY LINE OPENING (ULO) EACH
2080-00-72	N. TEUTONIA AVE	40
TOTALS CATEGORY 0010		**40**

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STORM SEWER STRUCTURES																STORM SEWER PIPES													
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	SPV.0060.005 CATCH BASINS TYPE 45A 4-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	SPV.0060.004 INLETS TYPE 44A EACH	SPV.0060.003 MANHOLE COVERS TYPE 58-A EACH	SPV.0060.001 INLET COVERS TYPE 57 EACH	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	[B] PIPE LENGTH (FT)	[C] PLAN LENGTH (FT)	PIPE CLASS	PIPE SIZE (INCH)	608.6008 STORM SEWER PIPE COMPOSITE 8-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	PIPE COMMENTS
N. TEUTONIA AVE	IN5	---	156+55	25.0	RT	114.25	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P9	---	IN5	PE11	110.00	109.51	2.00	24	26	---	8	26	---	CONNECT TO EXISTING RISER PIPE
N. TEUTONIA AVE	IN6	---	157+25	25.0	RT	113.75	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P12	---	IN6	PE13	109.50	109.34	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE13	---	P12	E4	109.34	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN7	---	157+38	19.0	LT	113.74	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P13	---	IN7	E4	109.49	109.24	2.00	13	17	---	8	17	---	---
N. TEUTONIA AVE	IN8	---	157+90	25.0	RT	113.09	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P14	---	IN8	PE16	108.84	108.68	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE4	---	PE16	PE15	108.68	107.86	---	---	---	---	8	---	---	CONNECTED TO EXISTING RISER PIPE
N. TEUTONIA AVE	IN9	---	158+68	25.0	RT	112.29	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P16	---	IN9	PE17	108.04	107.88	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE17	---	P16	E5	107.88	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN3	---	159+38	25.0	RT	111.58	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P5	---	IN3	E6	107.33	106.58	2.00	37	41	---	8	41	---	---
N. TEUTONIA AVE	IN10	---	160+62	24.9	LT	111.04	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P20	---	IN10	E15	106.79	106.37	2.00	21	25	---	8	25	---	---
N. TEUTONIA AVE	IN11	---	162+44	25.0	RT	112.15	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P21	---	IN11	PE22	107.90	107.74	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE22	---	P21	P23	107.74	107.48	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN16	---	163+22	18.9	LT	112.80	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P40	---	IN16	PE42	108.55	108.27	2.00	14	16	---	8	16	---	CONNECT TO EXISTING RISER PIPE
N. TEUTONIA AVE	IN17	---	160+77	25.0	RT	111.11	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P109	---	IN17	E15	106.86	106.47	2.00	19	23	---	8	23	---	---
N. TEUTONIA AVE	IN15	---	165+00	25.0	RT	113.89	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P37	---	IN15	PE38	109.64	109.48	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE38	---	P37	PE13	109.48	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN14	---	166+65	25.0	LT	115.29	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P33	---	IN14	E11	111.04	109.75	2.00	64	68	---	8	68	---	---
N. TEUTONIA AVE	IN13	---	168+16	25.0	RT	116.72	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P29	---	IN13	PE30	112.47	112.31	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE30	---	P29	E10	112.31	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	P27	---	E26	IN12	114.55	114.32	2.00	11	13	---	8	13	---	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION.

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

ALL ITEMS CATEGORY 0010

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STORM SEWER STRUCTURES																	STORM SEWER PIPES													
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	SPV.0060.005 CATCH BASINS TYPE 45A 4-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	SPV.0060.004 INLETS TYPE 44A EACH	SPV.0060.003 MANHOLE COVERS TYPE 58-A EACH	SPV.0060.001 INLET COVERS TYPE 57 EACH	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	608.6008 STORM SEWER PIPE COMPOSITE 8-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	PIPE COMMENTS
N. TEUTONIA AVE	IN12	---	169+26	19.0	LT	118.57	MANHOLES 4-FT DIAMETER	57	4.25	---	1	---	---	1	---	P26	---	IN12	E9	114.32	113.96	2.00	18	22	---	8	22	---	---
N. TEUTONIA AVE	IN22	---	171+73	18.9	RT	121.56	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P69	---	IN22	E24	117.31	116.95	2.00	18	23	---	8	23	---	---
N. TEUTONIA AVE	IN23	---	171+87	19.0	LT	121.63	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P70	---	IN23	E24	117.38	117.14	2.00	12	17	---	8	17	---	---
N. TEUTONIA AVE	IN68	---	175+15	44.6	RT	124.18	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P229	---	IN68	E90	119.93	119.67	2.00	13	17	---	8	17	---	---
N. TEUTONIA AVE	IN69	---	175+44	45.1	RT	123.96	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P230	---	IN69	E90	119.71	119.51	2.00	10	14	---	8	14	---	---
N. TEUTONIA AVE	IN66	---	156+73	46.7	RT	113.32	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P226	---	IN66	E89	109.07	108.94	2.00	7	12	---	8	12	---	---
N. TEUTONIA AVE	IN19	---	178+69	25.0	RT	121.57	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P53	---	IN19	PE54	117.32	117.16	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE54	---	P53	E18	117.16	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN24	---	180+39	24.9	RT	120.11	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P72	---	IN24	PE73	115.86	115.70	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE73	---	P72	E100	115.70	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN26	---	181+12	19.0	LT	119.76	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P79	---	IN26	PE80	115.51	115.35	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE80	---	P79	E27	115.35	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN20	---	177+79	18.9	LT	122.69	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P98	---	IN20	E19	118.44	117.83	2.00	30	35	---	8	35	---	---
N. TEUTONIA AVE	IN32	---	187+05	25.0	RT	117.62	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P100	---	IN32	E34	113.37	112.60	2.00	39	42	---	8	42	---	---
N. TEUTONIA AVE	IN34	---	187+78	25.0	RT	117.40	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P106	---	IN34	E35	113.15	112.74	2.00	20	24	---	8	24	---	---
N. TEUTONIA AVE	IN33	---	187+84	25.0	LT	117.45	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P104	---	IN33	E35	113.20	112.83	2.00	19	23	---	8	23	---	---
N. TEUTONIA AVE	IN30	---	186+46	25.0	LT	117.63	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P110	---	IN30	E34	113.38	112.81	2.00	29	33	---	8	33	---	---
N. TEUTONIA AVE	IN38	---	192+75	25.0	RT	115.43	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P125	---	IN38	E43	111.18	110.67	2.00	25	29	---	8	29	---	---
N. TEUTONIA AVE	IN36	---	189+07	25.0	LT	117.06	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P103	---	IN36	E101	112.81	112.23	2.00	29	34	---	8	34	---	---
N. TEUTONIA AVE	IN35	---	189+00	25.0	RT	116.92	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P107	---	IN35	E37	112.67	112.15	2.00	26	30	---	8	30	---	---

3

STORM SEWER STRUCTURES																STORM SEWER PIPES													
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	SPV.0060.005 CATCH BASINS TYPE 45A 4-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	SPV.0060.004 INLETS TYPE 44A EACH	SPV.0060.003 MANHOLE COVERS TYPE 58-A EACH	SPV.0060.001 INLET COVERS TYPE 57 EACH	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	608.6008 STORM SEWER PIPE COMPOSITE 8-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	PIPE COMMENTS
N. TEUTONIA AVE	IN37	---	191+90	25.0	LT	116.30	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P111	---	IN37	E40	112.05	111.67	2.00	19	23	---	8	23	---	---
N. TEUTONIA AVE	IN39	---	194+59	25.0	RT	114.44	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P127	---	IN39	PE128	110.19	110.03	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE128	---	P127	E44	110.03	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN40	---	194+68	25.0	LT	114.63	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P129	---	IN40	PE130	110.38	110.22	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE130	---	P129	E44	110.22	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN41	---	197+67	25.0	RT	112.20	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P132	---	IN41	PE133	107.95	107.79	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE133	---	P132	E45	107.79	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN42	---	197+95	24.9	LT	112.02	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P134	---	IN42	E45	107.77	107.25	2.00	26	30	---	8	30	---	---
N. TEUTONIA AVE	IN43	---	200+35	25.0	LT	109.34	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P142	---	IN43	PE143	106.34	106.18	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE143	---	P142	E55	106.18	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN44	---	200+73	25.0	RT	108.93	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P147	---	IN44	PE148	105.93	105.77	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE148	---	P147	E55	105.77	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN46	---	202+29	25.0	RT	107.45	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P152	---	IN46	E56	104.45	104.09	2.00	18	22	---	8	22	---	---
N. TEUTONIA AVE	IN45	---	202+61	25.0	LT	107.34	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P150	---	IN45	PE151	104.34	104.18	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE151	---	P150	E56	104.18	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN49	---	204+00	24.8	LT	104.06	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P166	---	IN49	E70	101.06	100.12	2.00	47	51	---	8	51	---	---
N. TEUTONIA AVE	IN50	---	204+30	25.0	RT	103.08	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P171	---	IN50	PE172	100.08	99.92	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE172	---	P171	E70	99.92	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN51	---	206+42	24.9	LT	100.59	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P174	---	IN51	E71	97.59	97.11	2.00	24	28	---	8	28	---	---
N. TEUTONIA AVE	IN52	---	207+01	25.0	RT	99.79	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P176	---	IN52	PE177	96.79	96.63	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV

3

STORM SEWER STRUCTURES																STORM SEWER PIPES												
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	SPV.0060.005 CATCH BASINS TYPE 45A 4-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	SPV.0060.004 INLETS TYPE 44A EACH	SPV.0060.003 MANHOLE COVERS TYPE 58-A EACH	SPV.0060.001 INLET COVERS TYPE 57 EACH	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	608.6008 STORM SEWER PIPE COMPOSITE 8-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	PIPE COMMENTS
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	–	---	---	---	---	---	---	PE177	---	P176	E72	96.63	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN53	---	207+82	24.9	LT	99.27	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P179	---	IN53	PE180	96.27	96.11	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	–	---	---	---	---	---	---	PE180	---	P179	E73	96.11	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN54	---	208+34	25.0	RT	98.57	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P183	---	IN54	PE184	95.57	95.41	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	–	---	---	---	---	---	---	PE184	---	P183	E73	95.41	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN55	---	209+68	25.0	RT	97.41	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P186	---	IN55	PE187	94.41	94.25	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	–	---	---	---	---	---	---	PE187	---	P186	E74	94.25	93.25	2.00	50	52	---	8	52	---	---
N. TEUTONIA AVE	IN4	---	154+01	25.0	LT	117.35	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P6	---	IN4	E2	113.10	112.68	2.00	21	25	---	8	25	---	---
N. TEUTONIA AVE	IN25	---	181+21	25.0	RT	119.59	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P77	---	IN25	PE78	115.34	115.18	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	–	---	---	---	---	---	---	PE78	---	P77	E27	115.18	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN27	---	183+51	25.1	RT	118.55	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P84	---	IN27	PE85	114.30	114.14	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	–	---	---	---	---	---	---	PE85	---	P84	E30	114.14	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN28	---	183+51	19.0	LT	118.54	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P86	---	IN28	PE87	114.29	114.13	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	–	---	---	---	---	---	---	PE87	---	P86	E30	114.13	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN29	---	185+39	25.0	RT	118.12	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P89	---	IN29	PE90	113.87	113.71	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	–	---	---	---	---	---	---	PE90	---	P89	PE91	113.71	113.44	---	---	---	---	8	---	---	CONNECT TO EXISTING RISER PIPE
N. TEUTONIA AVE	IN31	---	185+82	25.0	RT	117.99	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P94	---	IN31	E31	113.74	113.32	2.00	21	25	---	8	25	---	---
N. TEUTONIA AVE	IN58	---	210+24	46.2	LT	96.83	CATCH BASINS 4-FT DIAMETER	H	3.57	1	---	---	---	1	---	P196	---	IN58	IN56	93.26	92.50	2.00	38	42	---	8	42	---	---
N. TEUTONIA AVE	IN56	---	209+90	25.0	LT	97.26	MANHOLES 4-FT DIAMETER	57	4.76	---	1	---	--	1	---	P190	---	IN56	1001	92.50	92.00	2.00	25	29	---	12	---	29	---
N. TEUTONIA AVE	1001	---	209+91	5.9	RT	97.57	MANHOLES 4-FT DIAMETER	58-A	5.99	---	1	---	1	---	---	PE193	---	1001	E74	91.58	---	---	---	---	---	15	---	---	---

STORM SEWER STRUCTURES																	STORM SEWER PIPES													
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	SPV.0060.005 CATCH BASINS TYPE 45A 4-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	SPV.0060.004 INLETS TYPE 44A EACH	SPV.0060.003 MANHOLE COVERS TYPE 58-A EACH	SPV.0060.001 INLET COVERS TYPE 57 EACH	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	608.6008 STORM SEWER PIPE COMPOSITE 8-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	PIPE COMMENTS
N. TEUTONIA AVE	IN59	---	210+72	25.0	LT	96.48	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P198	---	IN59	PE199	93.48	93.33	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE199	---	P198	E74	93.33	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN57	---	210+54	25.0	RT	96.44	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P194	---	IN57	PE195	93.44	93.28	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE195	---	P194	E74	93.28	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN60	---	211+34	54.4	LT	96.00	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P203	---	IN60	E77	93.00	92.01	2.00	16	18	---	8	18	---	---
N. TEUTONIA AVE	IN61	---	212+45	25.0	LT	94.33	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P208	---	IN61	E78	91.33	91.32	2.00	0	4	---	8	4	---	---
N. TEUTONIA AVE	IN62	---	212+82	25.0	RT	93.92	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P210	---	IN62	PE211	90.92	90.76	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE211	---	P210	E79	90.76	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN63	---	215+11	25.0	LT	92.98	CATCH BASINS 4-FT DIAMETER	H	3.00	1	---	---	---	1	---	P214	---	IN63	PE215	89.98	89.92	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE215	---	P214	PE216	89.92	89.61	---	---	---	---	8	---	---	CONNECTED TO EXISTING RISER PIPE
N. TEUTONIA AVE	IN67	---	156+98	47.8	RT	113.38	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P227	---	IN67	E89	109.13	109.03	2.00	5	10	---	8	10	---	---
N. TEUTONIA AVE	IN2	---	159+41	157.7	RT	109.55	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P3	---	IN2	PE4	105.30	105.14	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE4	---	P3	E17	105.14	---	---	---	---	---	8	---	---	---
N. TEUTONIA AVE	IN18	---	159+67	66.6	RT	110.78	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P50	---	IN18	P51	106.53	106.32	2.00	11	13	---	8	13	---	---
N. TEUTONIA AVE	IN21	---	172+43	25.0	RT	122.05	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P65	---	IN21	PE66	117.80	117.64	2.00	8	10	---	8	10	---	EXIST PIPE INTERPOL ELEV
N. TEUTONIA AVE	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	PE66	---	P65	E24	117.64	116.72	2.00	46	49	---	8	49	---	---
N. TEUTONIA AVE	IN0	---	152+89	25.0	LT	116.99	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P0	---	IN0	E0	112.74	112.10	2.00	32	36	---	8	36	---	---
N. TEUTONIA AVE	IN1	---	153+00	25.0	RT	116.69	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P1	---	IN1	E0	112.44	111.97	2.00	24	28	---	8	28	---	---
N. TEUTONIA AVE	IN65	---	153+31	53.3	LT	117.11	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P223	---	IN65	E86	112.86	111.98	2.00	44	48	---	8	48	---	---
N. TEUTONIA AVE	IN64	---	153+79	138.9	LT	118.06	INLETS 4-FT DIAMETER	57	4.25	---	---	1	---	1	---	P99	---	IN64	E85	113.81	113.27	2.00	27	31	---	8	31	---	---
N. TEUTONIA AVE	IN70	---	205+12	46.6	RT	101.33	INLETS 4-FT DIAMETER	57	3.32	---	---	1	---	1	---	P8	---	IN70	E107	98.01	97.72	2.00	14	18	---	8	18	---	---
N. TEUTONIA AVE	1000	---	205+46	37.4	RT	101.94	MANHOLES 4-FT DIAMETER	58-A	8.39	---	1	---	1	---	---	PE236	---	1000	E106	93.55	---	---	---	---	---	8	---	---	---

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STORM SEWER STRUCTURE SUMMARY

SPV.0060.005 CATCH BASINS TYPE 45A EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	SPV.0060.004 INLETS TYPE 44A EACH	SPV.0060.003 MANHOLE COVERS TYPE 58A EACH	SPV.0060.001 INLET COVERS TYPE 57 EACH
18	4	49	2	69

STORM SEWER PIPE SUMMARY

608.6008 STORM SEWER PIPE COMPOSITE 8-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF
1437	29

ALL ITEMS CATEGORY 0010

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DUST CONTROL SURFACE TREATMENT

LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT SY
TEUTONIA AVE	51,368
TOTALS CATEGORY 0010	**51,368**

WATER

LOCATION	624.0100 WATER MGAL
PROJECT-BASE AGGREGATE	42
PROJECT- EXCAVATION	102
TOTAL CATEGORY 0010	**144**

EROSION CONTROL AND RESTORATION

STA	TO	STA	LOCATION	625.0100 TOPSOIL SY	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	629.0210 FERTILIZER TYPE B CWT	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
149+76	-	216+21	TEUTONIA AVE.	2,702	--	--	1.7	60.6	2,702
48+23	-	49+61	W. CHAMBER ST. (WEST)	261	--	--	.2	5.9	261
50+52	-	51+11	W. CHAMBER ST. (EAST)	6	--	--	.0	.1	6
50+26	-	50+80	W. COLUMBIA ST	3	--	--	.0	.1	3
50+28	-	51+87	W. BURLEIGH ST.	50	--	--	.0	1.1	50
50+25	-	50+57	W. CONCORDIA AVE.	4	--	--	.0	.1	4
50+23	-	50+30	N. 18TH ST.	25	--	--	.0	.6	25
49+40	-	49+76	W. KEEFE AVE. (WEST)	17	--	--	.0	.4	17
50+22	-	50+76	W. KEEFE AVE. (EAST)	28	--	--	.0	.6	28
50+24	-	50+97	N. 19TH ST.	277	--	--	.2	6.2	277
49+37	-	49+73	W. FINN PL. (WEST)	3	--	--	.0	.1	3
50+25	-	50+79	W. FINN PL. (EAST)	37	--	--	.0	.8	37
49+53	-	49+72	W. NASH ST. (WEST)	2	--	--	.0	--	2
50+26	-	50+80	W. NASH ST. (EAST)	41	--	--	.0	.9	41
50+33	-	50+95	W. VIENNA AVE. (EAST)	93	--	--	.1	2.1	93
50+00	-	51+34	N. 20TH ST.	250	--	--	.2	5.6	250
49+24	-	50+99	W. MELVINA ST.	55	--	--	.0	1.2	55
48+80	-	49+85	N. 21ST ST. (SOUTH)	170	--	--	.1	3.8	170
50+06	-	51+20	N. 21ST ST. (NORTH)	149	--	--	.1	3.3	149
SUBTOTAL				4,173	--	--	2.6	93.5	4,173
UNDISTRIBUTED				417	2	2	--	9.0	417
TOTALS CATEGORY 0010				**4,590**	**2**	**2**	**2.6**	**102.5**	**4,590**

INLET PROTECTION

STATION	TO	STATION	LOCATION	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH
149+76.53	-	164+00	N. TEUTONIA AVE	18	33	4
164+00	-	178+00	N. TEUTONIA AVE	10	19	1
178+00	-	190+00	N. TEUTONIA AVE	14	24	4
190+00	-	206+00	N. TEUTONIA AVE	14	27	1
206+00	-	216+00	N. TEUTONIA AVE	13	21	5
TOTALS CATEGORY 0010				**69**	**124**	**15**

PIPE CONNECTION TO EXISTING STRUCTURE

ROADWAY	STRUCTURE NUMBER	STATION	OFFSET	SPV.0060.012 PIPE CONNECTION TO EXISTING STRUCTURE EACH
N. TEUTONIA AVE				
	E0	153+14.58	1' LT	1
	E0	153+14.68	3' RT	1
	E2	153+93.20	2' LT	1
	E4	157+41.92	3' LT	1
	E6	159+70.80	2' RT	1
	E15	160+69.53	1' LT	1
	E15	160+70.40	4' RT	1
	E11	167+26.39	1' LT	1
	E9	169+37.08	1' LT	1
	E24	171+85.89	2' RT	1
	E24	171+88.02	3' LT	1
	E19	177+49.64	2' LT	1
	E31	185+88.86	2' RT	1
	E34	186+67.60	2' LT	1
	E34	186+71.58	2' RT	1
	E35	187+83.38	3' LT	1
	E35	187+83.69	3' RT	1
	E37	188+83.03	2' RT	1
	E101	189+29.78	3' LT	1
	E40	191+95.14	3' LT	1
	E43	192+91.42	2' RT	1
	E45	197+77.23	3' LT	1
	E56	202+39.01	7' RT	1
	E70	204+41.03	3' RT	1
	E71	206+46.57	2' RT	1
	E78	212+45.11	20' LT	1
W. CONCORDIA AVE.				
	E90	50+41.25	2' LT	1
	E90	50+43.01	3' RT	1
W. CHAMBERS ST.				
	E85	48+32.55	2' LT	1
	E86	49+44.71	22' LT	1
N. 20TH ST.				
	E107	50+30.05	34' RT	1
21ST ST. SOUTH				
	E77	49+50.69	3' RT	1
W. COLUMBIA ST.				
	E89	50+47.24	3' LT	1
	E89	50+49.43	2.7392	1
TOTALS CATEGORY 0010				**34**

TREES

STATION	OFFSET	LOCATION	632.0101.01 SUNBURST HONEYLOCUST B&B 3-INCH CAL EACH	632.0101.02 CALLERY PEAR B&B 3-INCH CAL EACH	632.0101.03 AUTUMN BLAZE MAPLE B&B 3.5-INCH CAL EACH	632.0101.04 ACCOLADE ELM B&B 3-INCH CAL EACH	632.0101.05 JAPANESE TREE LILAC B&B 2.5-INCH CAL EACH	632.0101.06 TULIP TREE B&B 3-INCH CAL EACH	632.0101.07 CUMULUS SERVICEBERRY B&B 3-INCH CAL EACH	632.0101.08 KENTUCKY COFFEETREE B&B 3-INCH CAL EACH	632.0101.09 IRONWOOD B&B 3-INCH CAL EACH	632.0101.10 AMERICAN HORNBEAM B&B 3-INCH CAL EACH	632.0101.11 ROYAL RED MAPLE B&B 3-INCH CAL EACH	632.0101.12 FORT MCNAIR RED HORSECHESTNUT B&B 3-INCH CAL EACH	632.0101.13 DAWN REDWOOD B&B 3-INCH CAL EACH	632.0101.14 FLEMING FILLIGREE CRAPE MYRTLE B&B 2.5-INCH CAL EACH	632.9101 LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES EACH	SPV.0035.01 PLANTING BED TOPSOIL MIX CY	REMARKS
155+60	LT	TEUTONIA	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
156+50	LT	TEUTONIA	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
157+90	LT	TEUTONIA	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
158+80	LT	TEUTONIA	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
159+69	LT	TEUTONIA	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
162+11	LT	TEUTONIA	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
163+06	LT	TEUTONIA	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
164+16	LT	TEUTONIA	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
164+50	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	0.75	SPECIMEN QUALITY
164+90	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	0.75	SPECIMEN QUALITY
168+43	LT	TEUTONIA	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
169+50	LT	TEUTONIA	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
170+40	LT	TEUTONIA	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
172+10	LT	TEUTONIA	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
172+50	LT	TEUTONIA	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
173+00	LT	TEUTONIA	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
173+45	LT	TEUTONIA	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
174+10	LT	TEUTONIA	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
174+55	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	0.75	SPECIMEN QUALITY
176+94	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	0.75	SPECIMEN QUALITY
177+40	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	0.75	SPECIMEN QUALITY
177+95	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	0.75	SPECIMEN QUALITY
178+40	LT	TEUTONIA	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
179+50	RT	18TH ST	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
179+80	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	0.75	SPECIMEN QUALITY
180+35	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	0.75	SPECIMEN QUALITY
180+82	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	0.75	SPECIMEN QUALITY
181+35	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	0.75	SPECIMEN QUALITY
182+25	LT	TEUTONIA	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
183+25	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	0.75	SPECIMEN QUALITY
184+25	LT	TEUTONIA	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	0.75	SPECIMEN QUALITY
205+62	LT	TEUTONIA	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	0.75	SPECIMEN QUALITY
TOTALS CATEGORY 0010			**5**	**3**	**1**	**2**	**2**	**2**	**2**	**2**	**1**	**2**	**1**	**4**	**3**	**2**	**1**	**24**	

COMMMON NAME	SCIENTIFIC NAME	SIZE CAL (INCHES) WHEN PLANTED	ROOT ZONE MODE	BALL (MIN. SIZE) DIAMETER (INCHES)	BALL (MIN. SIZE) DEPTH (INCHES)	HOLE (MIN. SIZE) DIAMETER (INCHES)	HOLE (MIN. SIZE) DEPTH (INCHES)	BRACE OR GUY	FERTILIZER UNITS REQUIRED	RODENT PROTECTION PROTECTION REQUIRED	MULCH RING DIAMETER (INCHES)
SUNBURST HONEYLOCUST	GLEDITSIA TRIACANTHOS 'INERMIS'	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
CALLERY PEAR	PYRUS CALLERYANA "CLEVELAND SELECT"	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
AUTUMN BLAZE MAPLE	ACER FREEMANII "AUTUMN BLAZE"	3.5	B&B	38	23	50	23	GUY	4 EACH	NONE	36
ACCOLADE ELM	ULMUS CARPINIFOLIA "ACCOLADE"	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
JAPANESE TREE LILAC	SYRINGA RETICULATA "IVORY SILK"	2.5	B&B	28	17	40	17	GUY	4 EACH	NONE	36
TULIP TREE	LIRIODENDRON TULIPIFERA	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
CUMULUS SERVICEBERRY	AMELANCHIER ARBOREA	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
KENTUCKY COFFEETREE	GYMNOCLADUS DIOICUS	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
IRONWOOD	OSTRYA VIRGINIANA	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
AMERICAN HORNBEAM	CARPINUS CAROLINIANA	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
ROYAL RED MAPLE	ACER PLATANOIDES	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
FORT MCNAIR RED HORSECHESTNUT	AESCULUS CARNEA	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
DAWN REDWOOD	METASEQUOIA GLYPTOSTROBOIDES	3.0	B&B	32	19	44	19	GUY	4 EACH	NONE	36
FLEMING FILLIGREE CRAPE MYRTLE	LAGERSTROEMIA INDICA	2.5	B&B	28	17	40	17	GUY	4 EACH	NONE	36

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PAVEMENT MARKING ITEMS

LOCATION	OFFSET	STATION	TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH SOLID WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH SOLID YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH 10FT LINE 30 FT SKIP YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH 2 FT LINE 6 FT SKIP WHITE LF	SPV.0090.003 MARKING LINE EPOXY 6-INCH 2 FT LINE 6 FT SKIP WHITE LF	SPV.0090.003 MARKING LINE EPOXY 6-INCH SOLID WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH SOLID WHITE LF	646.5020 MARKING ARROW EPOXY WHITE EACH	646.5120 MARKING WORD EPOXY WHITE EACH	646.5220 MARKING SYMBOL EPOXY WHITE EACH	SPV.0090.004 MARKING STOP LINE EPOXY 24-INCH WHITE LF	SPV.0090.002 MARKING CROSSWALK EPOXY 12-INCH WHITE LF	646.8120 MARKING CURB EPOXY YELLOW LF	646.8220 MARKING ISLAND NOSE EPOXY YELLOW EACH
N TEUTONIA AVE																		
		149+76.53	-	175+25	2062	--	721	--	171	3592	374	15	2	13	93	283	--	--
		175+25	-	198+25	2349	--	615	--	179	3186	--	10	--	10	--	813	--	--
		198+25	-	216+21.33	1657	576	289	33	221	1688	324	12	5	8	94	591	20	2
W. CHAMBERS ST.																		
		47+89.62	-	49+69	--	339	--	--	--	--	--	2	1	--	23	103	--	--
		50+36.20	-	50+51.99	--	11	--	--	--	--	--	--	--	--	14	57	--	--
W. BURLEIGH ST.																		
		50+34.41	-	52+02.34	155	313	--	--	--	156	--	1	--	1	30	138	--	--
W. KEEFE AVE.																		
		49+39.61	-	49+48.51	--	--	6	--	--	--	--	--	--	--	--	67	--	--
		50+41.50	-	50+75.90	--	--	11	--	--	--	--	--	--	--	--	--	--	--
N. 19TH ST.																		
		50+34.36	-	50+40.45	--	--	--	--	--	--	--	--	--	--	--	77	--	--
W. VIENNA AVE.																		
		50+33.36	-	50+39.36	--	--	--	--	--	--	--	--	--	--	--	55	--	--
N. 20TH ST.																		
		49+09.89	-	49+70.96	--	--	--	--	--	--	--	--	--	--	33	153	--	--
		50+34.35	-	51+34.41	--	189	--	--	--	--	--	--	--	--	47	142	--	--
SUBTOTAL					6223	1428	1643	33	571	8622	698	40	8	32	334	2479	20	2
TOTALS CATEGORY 0010						**9327**				**9193**	**698**	**40**	**8**	**32**	**334**	**2479**	**20**	**2**

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TEMPORARY PEDESTRIAN ACCOMODATIONS

PROJECT ID	STAGE	LOCATION	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1420 TEMPORARY PEDESTRIAN SURFACE PLYWOOD SF	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE SF	644.1601 TEMPORARY CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
2080-00-72							
	1	W. CHAMBER ST. INTERSECTION.	215	--	--	984	--
		UNION CEMETERY MAIN ACCESS	214	--	--	984	--
		N. 20TH ST. INTERSECTION	214	--	--	492	800
		W. NASH ST. INTERSECTION	214	--	--	984	--
		W. MELVINA ST. INTERSECTION.	214	--	--	984	--
	2	W. CHAMBER ST. INTERSECTION	215	--	--	620	--
		N. 20TH ST. INTERSECTION	214	--	--	620	--
							--
		UNDISTRIBUTED	--	1100	100	--	--
TOTALS CATEGORY 0010			**1500**	**1100**	**100**	**5668**	**800**

COVERING SIGNS

	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
UNDISTRIBUTED	15
TOTALS CATEGORY 0010	**15**

TRAFFIC CONTROL

ROADWAY	643.5000 TRAFFIC CONTROL EACH
N. TEUTONIA AVENUE	1
TOTALS CATEGORY 0010	**1**

TRAFFIC CONTROL SIGNS FIXED MESSAGE

DESCRIPTION	SIZE IN x IN	NUMBER OF SIGNS REQUIRED	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
ROAD CLOASED ON XX/XX/XX	42 x 72	1	21
ROAD CLOSED AHEAD USE ALT ROUTE	42 x 72	1	21
ROAD CLOASED ON XX/XX/XX	42 x 72	1	21
ROAD CLOSED AHEAD USE ALT ROUTE	42 x 72	1	21
ROAD CLOASED ON XX/XX/XX	42 x 72	1	21
ROAD CLOSED AHEAD USE ALT ROUTE	42 x 72	1	21
ROAD CLOASED ON XX/XX/XX	42 x 72	1	21
ROAD CLOSED AHEAD USE ALT ROUTE	42 x 72	1	21
TOTAL CATEGORY 0010			**168**

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TEMPORARY PAVEMENT MARKING

STAGE	LOCATION	STATION TO STATION	646.9000 MARKING REMOVAL LINE 4-INCH	646.9300 MARKING REMOVAL SPECIAL MARKING	649.0105 TEMPORARY MAKRING LINE PAINT 4-INCH		649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH		649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE
					WHITE	YELLOW	WHITE	YELLOW	18-INCH
			LF	EACH		LF	LF	LF	LF
1	TEUTONIA AVE.		--	--	540	6,588	275	--	--
	CHAMBER ST.		80	2	--	--	115	976	25
	CAPITOL DR.		--	--	--	--	617	--	--
1B	CHAMBER ST.		--	--	--	--	406	884	14
2	TEUTONIA AVE.		--	--	--	--	--	6,584	--
	CHAMBER ST.		--	--	--	--	--	270	23
	KEEFE AVE.		--	--	--	--	--	61	15
	FINN PL.		--	--	--	--	--	59	13
	NASH ST.		--	--	--	--	--	29	8
	20TH ST.		--	--	--	--	--	196	64
	MELVINA ST.		--	--	--	--	--	92	13
	21TH ST.		--	--	--	--	--	164	46
2B	20TH ST.		--	--	--	--	782	--	37
	TOTAL CATEGORY 0010		**80**	**2**	**7,128**		**11,510**		**258**

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TRAFFIC CONTROL ITEMS

STAGE	LOCATION	STAGE DURATION	643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0800 TRAFFIC CONTROL ARROW BOARDS		643.0900 TRAFFIC CONTROL SIGNS		643.1050 TRAFFIC CONTROL SIGNS PCMS	
		DAYS	EACH	DAYS	EACH	DAYS	EACH	EACH	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
1	TEUTONIA AVE	116	377	43,732	194	22,504	--	--	388	45,008	377	43,732	--	--	149	17,284	2	232
	GROELING AVE.		--	--	--	--	--	--	--	--	--	--	--	--	4	464	--	--
	CHAMBER ST.		29	3,364	3	348	2	2	6	696	29	3,364	--	--	11	1,276	--	--
	COLUMBIA ST.		--	--	--	--	--	--	--	--	--	--	--	--	1	116	--	--
	BURLEIGHH ST.		--	--	--	--	--	--	--	--	--	--	--	--	5	580	--	--
	RING ST.		--	--	--	--	--	--	--	--	--	--	--	--	5	580	--	--
	CONCRODIA AVE.		--	--	--	--	--	--	--	--	--	--	--	--	3	348	--	--
	18TH ST.		--	--	--	--	--	--	--	--	--	--	--	--	2	232	--	--
	KEEFE AVE.		--	--	14	1,624	--	--	28	3,248	--	--	--	--	11	1,276	--	--
	19TH ST.		--	--	1	116	--	--	2	232	--	--	--	--	3	348	--	--
	FINN PL.		--	--	6	696	--	--	12	1,392	--	--	--	--	12	1,392	--	--
	NASH ST.		3	348	4	464	--	--	8	928	3	348	--	--	8	928	--	--
	VIENNA AVE.		--	--	4	464	--	--	8	928	--	--	--	--	9	1,044	--	--
	20TH ST.		--	--	21	2,436	--	--	42	4,872	--	--	--	--	11	1,276	--	--
	MELVINA ST.		4	464	2	232	--	--	4	464	4	464	--	--	6	696	--	--
	21ST ST.		--	--	7	812	--	--	14	1,624	--	--	--	--	12	1,392	--	--
	CAPITOL DR.		33	3,828	2	232	--	--	4	464	33	3,828	1	116	15	1,740	--	--
1B	TEUTONIA AVE	7	376	2,632	181	1,267	--	--	362	2,534	376	2,632	--	--	144	1,008	2	14
	GROELING AVE.		--	--	--	--	--	--	--	--	--	--	--	--	4	28	--	--
	CHAMBER ST.		30	210	3	21	16	16	6	42	30	210	--	--	11	77	--	--
	COLUMBIA ST.		--	--	--	--	--	--	--	--	--	--	--	--	1	7	--	--
	BURLEIGHH ST.		--	--	--	--	--	--	--	--	--	--	--	--	5	35	--	--
	RING ST.		--	--	--	--	--	--	--	--	--	--	--	--	5	35	--	--
	CONCRODIA AVE.		--	--	--	--	--	--	--	--	--	--	--	--	3	21	--	--

TRAFFIC CONTROL ITEMS

(CONTINUED)

STAGE	LOCATION	STAGE DURATION	643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0800 TRAFFIC CONTROL ARROW BOARDS		643.0900 TRAFFIC CONTROL SIGNS		643.1050 TRAFFIC CONTROL SIGNS PCMS	
		DAYS	EACH	DAYS	EACH	DAYS	EACH	EACH	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
1B	18TH ST.		--	--	--	--	--	--	--	--	--	--	--	--	2	14	--	--
																	--	--
	KEEFE AVE.		--	--	15	105	--	--	30	210	--	--	--	--	13	91	--	--
																	--	--
	19TH ST.		--	--	--	--	--	--	--	--	--	--	--	--	3	21	--	--
																	--	--
	FINN PL.		--	--	9	63	--	--	18	126	--	--	--	--	12	84	--	--
																	--	--
	NASH ST.		3	21	4	28	--	--	8	56	3	21	--	--	8	56	--	--
																	--	--
	VIENNA AVE.		--	--	10	70	--	--	20	140	--	--	--	--	10	70	--	--
																	--	--
	20TH ST.		--	--	20	140	--	--	40	280	--	--	--	--	12	84	--	--
																	--	--
	MELVINA ST.		4	28	--	--	--	--	--	--	4	28	--	--	7	49	--	--
																	--	--
	21ST ST.		--	--	12	84	--	--	24	168	--	--	--	--	13	91	--	--
																	--	--
	CAPITOL DR.		33	231	3	21	--	--	6	42	33	231	1	116	16	112	--	--
2	TEUTONIA AVE	148	310	45,880	171	25,308	--	--	342	50,616	310	45,880	--	--	115	17,020	2	296
																	--	--
	GROELING AVE.		--	--	--	--	--	--	--	--	--	--	--	--	5	740	--	--
																	--	--
	CHAMBER ST.		5	740	3	444	--	--	6	888	5	740	--	--	10	1,480	--	--
																	--	--
	COLUMBIA ST.		4	592	3	444	--	--	6	888	4	592	--	--	9	1,332	--	--
																	--	--
	BURLEIGHH ST.		--	--	13	1,924	--	--	26	3,848	--	--	--	--	4	592	--	--
																	--	--
	16TH ST.		--	--	11	1,628	--	--	22	3,256	--	--	--	--	6	888	--	--
																	--	--
	RING ST.		--	--	10	1,480	--	--	20	2,960	--	--	--	--	11	1,628	--	--
																	--	--
	CONCRODIA AVE.		--	--	8	1,184	--	--	16	2,368	--	--	--	--	8	1,184	--	--
																	--	--
	18TH ST.		--	--	9	1,332	--	--	18	2,664	--	--	--	--	6	888	--	--
																	--	--
	KEEFE AVE.		--	--	12	1,776	--	--	24	3,552	--	--	--	--	14	2,072	--	--
																	--	--
	19TH ST.		--	--	6	888	--	--	12	1,776	--	--	--	--	3	444	--	--
																	--	--
	FINN PL.		--	--	12	1,776	--	--	24	3,552	--	--	--	--	14	2,072	--	--
																	--	--
	NASH ST.		6	888	5	740	--	--	10	1,480	6	888	--	--	10	1,480	--	--
																	--	--
	VIENNA AVE.		--	--	9	1,332	--	--	18	2,664	--	--	--	--	11	1,628	--	--
																	--	--
	20TH ST.		4	592	7	1,036	--	--	14	2,072	4	592	--	--	6	888	--	--
																	--	--
	MELVINA ST.		--	--	--	--	--	--	--	--	--	--	--	--	4	592	--	--
																	--	--
	21ST ST.		--	--	8	1,184	--	--	16	2,368	--	--	--	--	7	1,036	--	--
																	--	--
	CAPITOL DR.		--	--	--	--	--	--	--	--	--	--	--	--	4	592	--	--

TRAFFIC CONTROL ITEMS

(CONTINUED)

STAGE	LOCATION	STAGE DURATION	643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0800 TRAFFIC CONTROL ARROW BOARDS		643.0900 TRAFFIC CONTROL SIGNS		643.1050 TRAFFIC CONTROL SIGNS PCMS	
		DAYS	EACH	DAYS	EACH	DAYS	EACH	EACH	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
2B	TEUTONIA AVE	7	314	2,198	222	1,554	--	--	444	3,108	314	2,198	--	--	118	826	2	14
	GROELING AVE.		--	--	--	--	--	--	--	--	--	--	--	--	5	35	--	--
	CHAMBER ST.		5	35	5	35	--	--	10	70	5	35	--	--	10	70	--	--
	COLUMBIA ST.		4	28	5	35	--	--	10	70	4	28	--	--	6	42	--	--
	BURLEIGHH ST.		--	--	15	105	--	--	30	210	--	--	--	--	9	63	--	--
	16TH ST.		--	--	9	63	--	--	18	126	--	--	--	--	5	35	--	--
	RING ST.		--	--	10	70	--	--	20	140	--	--	--	--	10	70	--	--
	CONCRODIA AVE.		--	--	8	56	--	--	16	112	--	--	--	--	8	56	--	--
	18TH ST.		--	--	9	63	--	--	18	126	--	--	--	--	6	42	--	--
	KEEFE AVE.		--	--	11	77	--	--	22	154	--	--	--	--	12	84	--	--
	19TH ST.		--	--	6	42	--	--	12	84	--	--	--	--	4	28	--	--
	FINN PL.		--	--	12	84	--	--	24	168	--	--	--	--	13	91	--	--
	NASH ST.		--	--	2	14	--	--	4	28	--	--	--	--	8	56	--	--
	VIENNA AVE.		--	--	7	49	--	--	14	98	--	--	--	--	10	70	--	--
	20TH ST.		1	7	4	28	--	--	8	56	1	7	--	--	10	70	--	--
	MELVINA ST.		--	--	7	49	--	--	14	98	--	--	--	--	9	63	--	--
	21ST ST.		--	--	7	49	--	--	14	98	--	--	--	--	9	63	--	--
	CAPITOL DR.		--	--	--	--	--	--	--	--	--	--	--	--	3	21	--	--
TOTALS CATEGORY 0010			**105,818**		**76,576**		**18**	**18**	**153,152**		**105,818**		**232**		**71,196**		**556**	

3

MOBILIZATION

PROJECT ID	DESCRIPTION	619.1000 MOBILIZATION EACH
		1
TOTAL		**1**

CONSTRUCTION STAKING

PROJECT ID	DESCRIPTION	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (2080-00-72) LS
2080-00-72	N. TEUTONIA AVE	1
TOTALS CATEGORY 0010		**1**

FIELD OFFICE TYPE B

PROJECT ID	DESCRIPTION	642.5001 FIELD OFFICE TYPE B EACH
2080-00-72	N. TEUTONIA AVE	1
TOTAL CATEGORY 0010		**1**

SECTION CORNER MONUMENTS

PROJECT ID	DESCRIPTION	SPV.0060.013 SECTION CORNER MONUMENT EACH
2080-00-72	N. TEUTONIA AVE	1
TOTALS CATEGORY 0010		**1**

3

CONSTRUCTION STAKING

STATION	-	STATION	LOCATION	LENGTH LF	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0090.001 CONSTRUCTION STAKING CONCRETE SIDEWALK LF
149+77	-	216+21	TEUTONIA AVE	6,644	59	6,644	6,644	12,429	46	6,644	12,429
48+24	-	49+77	CHAMBERS (WEST)	153	2	153	153	299	2	153	299
50+24	-	50+88	CHAMBERS (EAST)	64	--	64	64	163	2	64	163
50+24	-	50+80	COLUMBIA	56	2	56	56	100	2	56	100
50+24	-	51+87	BURLEIGH	163	2	163	163	250	2	163	250
9+60	-	9+77	CEMETERY DRIVEWAY	17	--	17	17	30	2	17	30
50+24	-	50+49	RING	25	--	25	25	64	3	25	64
50+24	-	50+57	CONCORDIA	33	2	33	33	54	2	33	54
50+24	-	51+35	18TH	111	--	111	111	191	3	111	191
50+25	-	50+76	KEEFE (EAST)	51	--	51	51	89	2	51	89
50+25	-	50+97	19TH	72	--	72	72	135	2	72	135
49+40	-	49+75	KEEFE (WEST)	35	--	35	35	53	2	35	53
49+37	-	49+76	FINN (WEST)	39	--	39	39	68	2	39	68
50+25	-	50+79	FINN (EAST)	54	--	54	54	97	2	54	97
49+53	-	49+75	NASH (WEST)	22	--	22	22	35	2	22	35
50+25	-	50+80	NASH (EAST)	55	--	55	55	96	2	55	96
49+00	-	49+75	VIENNA (WEST)	75	--	75	75	97	2	75	97
50+23	-	50+95	VIENNA (EAST)	72	--	72	72	133	2	72	133
50+24	-	51+34	20TH (NORTH)	110	2	110	110	179	2	110	179
49+24	-	49+75	MELVINA (WEST)	51	1	51	51	88	2	51	88
50+25	-	50+99	MELVINA (EAST)	74	--	74	74	134	2	74	134
48+81	-	49+76	21ST (SOUTH)	95	1	95	95	157	2	95	157
50+30	-	51+20	21ST (NORTH)	90	--	90	90	148	2	90	148
TOTALS CATEGORY 0010				**8,161**	**71**	**8,161**	**8,161**	**15,089**	**92**	**8,161**	**15,089**

2

ESTIMATE OF QUANTITIES; STREET LIGHTING

PROJECT ID. 2080-00-72

MILWAUKEE COUNTY

	Std.Bid Item No.	Description	Unit	Quantity
-	650.8500	Construction Staking Electrical Installations	LS	1
-	652.0220	Conduit Rigid Nonmetallic Schedule 40 1.5-Inch	LF	70
-	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch (Review traffic signals quantities table for additional quantities)	LF	160
-	652.0230	Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	LF	24,800
-	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch (Review traffic signals quantities table for additional quantities)	LF	15
-	652.0330	Conduit Rigid Nonmetallic Schedule 80 2 1/2-Inch	LF	2,600
-	652.0610	Conduit Special 2.5-Inch	LF	220
-	654.0105	Concrete Bases Type 5	EACH	62
-	655.0305	Cable Type UF 2#12 AWG Grounded	LF	2,100
-	657.0255	Transformer Bases Breakway 11 1/2-inch Bolt Circle	EACH	63
-	SPV.0060.302	Pull Boxes 13-Inch x 24-Inch x 24-Inch	EACH	99
-	SPV.0060.312	Poles Type -2 (A26 Concrete, Direct Bury)	EACH	6
-	SPV.0060.315	Poles Type -7 (22 Ft. Aluminum, Direct Bury)	EACH	1
-	SPV.0060.319	Poles Type -11	EACH	5
-	SPV.0060.320	Poles Type -12	EACH	57
-	SPV.0060.332	Metal Pedestal Cabinet 4-Inch x 4-Inch x 36-Inch	EACH	14
-	SPV.0060.375	Luminaire Utility LED 2		
		Type II Light Distribution (2LED2)	EACH	4
		Type III Light Distribution (2LED3)	EACH	1
-	SPV.0060.376	Luminaire Utility LED 3		
		Type III Light Distribution (3LED3)	EACH	63
-	SPV.0060.801	Poles Type -6 (H17 Concrete, Direct Bury)	EACH	3
-	SPV.0060.838	Luminaire Arms Single Member 6-Ft. - City Furnished	EACH	72
-	SPV.0060.865	Luminaire Historic Milwaukee Harp LED1	EACH	3
-	SPV.0060.866	Luminaire Historic Milwaukee Lantern LED2	EACH	1
-	SPV.0060.867	Luminaire Historic Milwaukee Lantern LED3	EACH	5
-	SPV.0090.305	Electrical Cable Type 3#8/1#8 Low Thermal Plastic	LF	4,480
-	SPV.0090.306	Electrical Cable Type 3#6/1#8 Low Thermal Plastic	LF	4,560
-	SPV.0090.307	Electrical Cable Type 3#4/1#8 Low Thermal Plastic	LF	2,160
-	SPV.0090.308	Electrical Cable Type 3#2/1#8 Low Thermal Plastic	LF	3,200
-	SPV.0090.319	Liquidtight Flexible Nonmetallic Conduit 1-1/2 Inch	LF	50

FILE NAME : W:\bes\pavings\2020work\nTeutonia Ave – Groeling to Capitol (2080–00–72)\SL Conduit\Lighting Quantities.dgn PLOT DATE : 26-AUG-2019 12:36 PLOT BY : cblack PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

Item No.	Std.Bid Item No.	Description	Unit	Quantity
-	204.0195	Removing Concrete Bases	EACH	1
-	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	55
-	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	763
-	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	540
-	654.0101	Concrete Bases Type 1	EACH	6
-	654.0110	Concrete Bases Type 10	EACH	2
-	657.0100	Pedestal Bases	EACH	6
-	657.0350	Poles Type 10	EACH	2
-	657.0520	Monotube Arms 20-FT	EACH	1
-	657.0525	Monotube Arms 25-FT	EACH	1
-	SPV.0060.303	Pull Boxes 17-Inch x 30-Inch x 24-Inch (Fiberglass Poly. Conc.)	EA	11
-	SPV.0060.304	City Precast Controller Base 36"x21"x20"	EA	1

TRAFFIC CONTROL SIGNAL
NORTH TEUTONIA AVENUE
& NORTH 20TH STREET (SOUTH LEG)
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY
MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW
REVISED BY:

3

Item No.	Std.Bid Item No.	Description	Unit	Quantity
-	204.0195	Removing Concrete Bases	EACH	2
-	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	84
-	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	751
-	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	292
-	654.0101	Concrete Bases Type 1	EACH	5
-	654.0110	Concrete Bases Type 10	EACH	2
-	657.0100	Pedestal Bases	EACH	5
-	657.0350	Poles Type 10	EACH	2
-	657.0525	Monotube Arms 25-FT	EACH	2
-	SPV.0060.303	Pull Boxes 17-Inch x 30-Inch x 24-Inch (Fiberglass Poly. Conc.)	EA	8
-	SPV.0060.304	City Precast Controller Base 36"x21"x20"	EA	1

TRAFFIC CONTROL SIGNAL
NORTH TEUTONIA AVENUE
& NORTH 20TH STREET (NORTH LEG)
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY
MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW
REVISED BY:

Item No.	Std.Bid Item No.	Description	Unit	Quantity
-	204.0195	Removing Concrete Bases	EACH	5
-	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	56
-	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	473
-	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	392
-	654.0101	Concrete Bases Type 1	EACH	3
-	654.0110	Concrete Bases Type 10	EACH	3
-	657.0100	Pedestal Bases	EACH	3
-	657.0350	Poles Type 10	EACH	3
-	657.0525	Monotube Arms 25-FT	EACH	3
-	SPV.0060.303	Pull Boxes 17-Inch x 30-Inch x 24-Inch (Fiberglass Poly. Conc.)	EA	8
-	SPV.0060.304	City Precast Controller Base 36"x21"x20"	EA	1

NOTE: SEE STREET LIGHTING QUANTITIES FOR ADDITIONAL 652.0225,652.0235

TRAFFIC CONTROL SIGNAL
WEST CHAMBERS STREET
& NORTH TEUTONIA AVENUE
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY
MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW
REVISED BY:

Item No.	Std.Bid Item No.	Description	Unit	Quantity
-	204.0195	Removing Concrete Bases	EACH	4
-	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	77
-	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	652
-	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	326
-	654.0110	Concrete Bases Type 10	EACH	2
-	657.0100	Pedestal Bases	EACH	4
-	654.0101	Concrete Bases Type 1	EACH	4
-	657.0350	Poles Type 10	EACH	2
-	657.0520	Monotube Arms 20-FT	EACH	1
-	657.0525	Monotube Arms 25-FT	EACH	1
-	SPV.0060.303	Pull Boxes 17-Inch x 30-Inch x 24-Inch (Fiberglass Poly. Conc.)	EA	7
-	SPV.0060.304	City Precast Controller Base 36"x21"x20"	EA	1

TRAFFIC CONTROL SIGNAL
WEST BURLEIGH STREET
& NORTH TEUTONIA AVENUE
LOCAL STREET
CITY OF MILWAUKEE,MILWAUKEE COUNTY
MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE-DPW
REVISED BY:

SAWING

ROADWAY	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
N. TEUTONIA AVE						
	149+76.53			LT/RT	--	59
	149+80.21			RT	--	6
	150+72.99	-	150+97.56	LT	24	--
	151+44.99	-	154+64.04	RT	--	16
	152+06.04	-	152+30.67	LT	25	--
	152+34.52	-	152+50.46	RT	16	--
	152+78.17	-	152+86.54	RT	8	--
	155+63.16	-	155+71.97	RT	--	9
	157+39.21	-	157+69.98	RT	31	--
	157+99.56	-	158+22.02	RT	22	--
	162+17.71	-	162+35.71	RT	18	--
	162+80.56	-	163+00.56	RT	20	--
	163+40.68	-	163+59.95	RT	19	--
	164+64.09	-	164+87.06	RT	--	21
	166+12.36	-	166+22.28	LT	--	10
	166+22.28	-	166+55.96	LT	--	34
	167+85.30	-	167+94.68	RT	9	--
	169+73.90	-	169+85.47	RT	--	12
	174+81.30	-	174+95.26	RT	15	--
	175+78.18	-	175+88.55	RT	--	10
	176+71.73	-	176+84.80	RT	--	13
	177+16.05	-	177+25.33	RT	--	9
	177+66.00	-	177+76.93	RT	11	--
	180+46.66	-	180+78.68	RT	--	32
	181+11.26	-	181+51.71	RT	--	40
	184+58.92	-	184+69.51	RT	11	--
	188+61.27	-	188+92.18	RT	31	--
	189+33.91	-	189+82.15	RT	47	--
	189+62.07	-	190+12.89	LT	51	--
	190+84.75	-	191+21.78	LT	37	--
	194+16.00	-	194+30.61	LT	15	--
	195+53.60	-	195+64.68	RT	--	11
	195+86.47	-	196+13.58	LT	27	--
	196+10.07	-	196+26.59	RT	--	17
	200+12.02	-	200+39.97	RT	28	--
	203+33.95	-	203+63.45	RT	29	--
	204+05.27	-	204+39.27	RT	34	--
	205+23.68	-	205+33.55	LT	10	--
	206+45.67	-	206+75.69	LT	30	--
	206+32.20	-	206+70.40	RT	41	--
	207+00.67	-	207+25.67	LT	25	--
	207+05.22	-	207+46.57	RT	--	41
	207+60.04	-	208+01.09	RT	--	41
	207+93.50	-	208+32.54	LT	39	--
	210+77.76	-	210+97.85	RT	--	66
	212+05.36	-	212+30.84	RT	25	--
	214+20.16	-	214+30.68	LT	--	11
	215+26.73	-	215+42.88	LT	--	16
	215+36.00			RT	--	7
	215+36.70			RT	14	--
	215+36.70	-	216+20.54	RT	84	--
	216+21.33			LT/RT	64	--

SAWING (CONTINUED)

ROADWAY	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
W. CHAMBERS ST						
	48+14.45			LT/RT	--	37
	48+24.45			LT/RT	--	53
	48+43.77	-	48+60.80	RT	18	--
	50+87.91			LT/RT	45	--
	51+11.00			LT/RT	--	46
	51+21.00			LT/RT	25	--
W. COLUMBIA ST						
	50+30.22	-	50+31.41	RT	24	--
	50+79.80			LT/RT	37	--
W. BURLEIGH ST						
	51+09.87			LT	--	36
	51+19.87			LT	30	--
	51+86.55			RT	--	46
	52+02.30			RT	24	--
	51+09.8	-	52+02.30	LT/RT	--	93
W. RING ST						
	50+45.90	-	50+67.60	LT/RT	--	75
	50+48.52			RT	--	5
W. CONCORDIA AVE						
	50+57.25			LT/RT	30	5
	50+67				27	
N. 18TH ST						
	50+47.45	-	50+71.45	RT	--	4
	51+35.27			LT/RT	26	18
	51+45.27			LT/RT	26	--
W. KEEFE AVE						
	49+37.88			LT	--	5
	49+39.61			RT	--	5
	49+39.62			LT/RT	33	--
	50+75.93			LT/RT	--	49
	50+86			LT/RT	32	--
N. 19TH ST						
	50+48.55	-	50+49.65	RT	--	6
	50+52.92	-	50+53.36	RT	--	3
	50+55.95	-	50+57.67	RT	--	8
	50+64.73	-	50+66.11	RT	--	4
	50+80.41	-	50+82.11	RT	--	3
	50+96.51			LT	--	6
	50+96.51			LT/RT	--	31
	51+07			LT/RT	26	--

SAWING (CONTINUED)

ROADWAY	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
W. FINN PL						
	49+26.86			LT/RT	26	--
	49+36.86			LT	--	6
	49+36.86			LT/RT	--	32
	49+36.86			RT	--	6
	50+78.65			LT	--	6
	50+78.65			LT/RT	--	32
	50+78.65			RT	--	6
	50+88.65			LT/RT	26	--
W. NASH ST						
	49+42.90			LT/RT	34	--
	49+52.90			LT/RT	--	47
	50+80.17			LT	--	6
	50+80.25			LT/RT	--	30
	50+80.25			RT	--	6
	50+90.25			LT/RT	25	--
W. VIENNA AVE						
	49+00.19			LT/RT	--	36
	50+94.68			LT	--	6
	50+94.74			LT/RT	--	42
	51+04.74			LT/RT	30	--
W. 20TH ST						
	48+99.84			LT/RT	34	--
	49+09.84			LT/RT	--	47
	50+37.75	-	50+39.40	RT	--	4
	50+56.12	-	50+57.59	RT	--	3
	50+68.27	-	50+70.16	RT	--	3
	51+34.41			LT/RT	--	51
	51+44.41			LT/RT	34	--
W. MELVINA AVE						
	49+13.76			LT/RT	34	--
	49+23.76			LT/RT	--	43
	50+27.6	-	50+71.31	RT	--	43
	50+99.30			LT/RT	--	55
	51+09.30			LT/RT	31	--
W. 21ST ST						
	48+30.51			LT/RT	31	--
	48+30.52			LT/RT	--	43
	50+62.48			RT	--	6
	51+20.28			LT/RT	--	41
	51+30.28			LT/RT	30	--
TOTALS CATEGORY 0010					**1,598**	**1,618**

3

ADJUSTING WATER VALVES

LOCATION	SPV.0060.010 ADJUSTING WATER BOXES EACH
TEUTONIA AVE	173
W. CHAMBERS ST.	4
W. COLUMBIA ST.	2
W. BURLIEGH ST.	2
W. RING ST.	1
W. CONCORDIA AVE.	1
N. 18TH. ST.	5
W. KEEFE AVE.	3
N. 19TH ST.	--
W. FINN ST.	3
W. NASH ST.	1
W. VIENNA ST.	5
N. 20TH ST.	5
W. MELVINA ST.	3
N. 21ST ST.	3
TOTAL CATEGORY 0020	**211**

SANITARY SEWER ITEMS

LOCATION	STA	OFFSET	EXIST ELEV	PROP ELEV	SPV.0060.007 INTERNAL SANITARY MANHOLE SEAL EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	COMMENT
TEUTONIA AVE	200+86.96	5.6' LT	109.27	109.21	1	1	
TEUTONIA AVE	202+41.16	5.0' LT	107.81	107.78	1	1	
TEUTONIA AVE	202+72.88	17.1' RT	107.05	107.11	1	1	
TEUTONIA AVE	203+51.98	25.2' LT	106.31	105.72	1	1	
TEUTONIA AVE	204+45.10	4.8' LT	103.27	103.16	1	1	
TEUTONIA AVE	208+28.84	4.2' LT	99.32	99.29	1	1	
TEUTONIA AVE	210+00.34	5.4' LT	97.45	97.52	1	1	
TEUTONIA AVE	212+96.13	3.7' LT	94.40	94.28	1	1	
TEUTONIA AVE	213+72.15	26.3' RT	93.69	93.41	1	1	
TEUTONIA AVE	215+82.23	6.6' LT	92.88	92.95	1	1	
20TH ST	49+38.70	10.6' LT	107.56	107.29	1	1	
20TH ST	50+35	13.9' RT	-	115.23	1	--	NEW MANHOLE
21ST ST (SOUTH)	49+46.23	5.2' LT	95.91	95.47	1	1	
TOTALS CATEGORY 0020					**14**	**13**	

CITY UNDERGROUND CONDUIT

LOCATION			CATEGORY 0020													
			204.0250	SPV.0060.400	SPV.0060.401	SPV.0060.402	SPV.0060.410	SPV.0060.412	SPV.0060.413	SPV.0060.420	SPV.0060.425	SPV.0060.426	SPV.0090.408	SPV.0090.406	SPV0090.404	SPV0090.402
			ABANDONING MANHOLES	ADJUSTING CUC MANHOLE COVERS	4' DIAMETER MANHOLE TYPE CUC	5' DIAMETER MANHOLE TYPE CUC	4' DIAMETER "DOGHOUSE" MANHOLE TYPE CUC	5' DIAMETER "DOGHOUSE" MANHOLE TYPE CUC	5' DIAMETER "DOGHOUSE" MANHOLE TYPE CUC INSTALLED OVER CONDUIT	REMOVING CUC MANHOLE	INSTALLING CONDUIT INTO EXISTING MANHOLE	SAWING CONCRETE ENCASED DUCT PACKAGE	8-DUCT CONDUIT CEMENT ENCASED DB-60	6-DUCT CONDUIT CEMENT ENCASED DB-60	4-DUCT CONDUIT CEMENT ENCASED DB-60	2-DUCT CONDUIT CEMENT ENCASED DB-60
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LF	LF	LF	LF
STA 149+76.5, 5.5 LT	TO	MANHOLE 602												368		
MANHOLE 600R	-	STA 153+29.7, 27.3 RT								1						
MANHOLE 601	-	STA 153+29.7, 27.3 RT						1								
MANHOLE 601	TO	MANHOLE 602													33	
MANHOLE 602	-	STA 153+46.8, 5.5 RT							1							
MANHOLE 602	TO	MANHOLE 604													20	
MANHOLE 603R	-	STA 153+57.0, 27.5 LT								1						
MANHOLE 604	-	STA 153+57.0, 27.5 LT					1									
MANHOLE 604	TO	PROPOSED TRAFFIC CABINET														54
MANHOLE 602	TO	STA 159+43.5, 5.5 LT												598		
MANHOLE 605A	-	STA 156+89.2, 30.4 LT	1													
STA 159+43.5, 5.5 LT	TO	PROPOSED TRAFFIC CABINET														45
STA 159+43.5, 5.5 LT	TO	MANHOLE 607											69			
MANHOLE 606A	-	STA 160+12.6, 30.8 LT	1													
MANHOLE 607	-	STA 160+14.8, 5.5 LT				1										
MANHOLE 607	TO	EAST PAVING LIMITS													189	
MANHOLE 607	TO	MANHOLE 609												490		
MANHOLE 608A	-	STA 164+92.9, 32.2 LT	1													
MANHOLE 609	-	STA 165+06.0, 7.1 LT			1											
MANHOLE 609	TO	MANHOLE 611												510		
MANHOLE 610A	-	STA 167+57.5, 31.5 LT	1													
MANHOLE 611	-	STA 170+19.7, 5.5 LT														
MANHOLE 611	TO	MANHOLE 614												510		
MANHOLE 612A	-	STA 171+31.4, 31.0 LT	1													
MANHOLE 613A	-	STA 175+11.4, 28.5 LT														
MANHOLE 614	-	STA 175+35.0, 4.7 LT			1											
MANHOLE 614	TO	MANHOLE 616												536		
MANHOLE 615A	-	STA 180+15.6, 30.8 LT	1													
MANHOLE 616	-	STA 180+75.0, 5.5 LT			1											
MANHOLE 616	TO	PROPOSED POLICE CALL BOX														26
MANHOLE 616	TO	MANHOLE 619												536		
MANHOLE 617A	-	STA 184+65.6, 30.7 LT	1													
MANHOLE 618A	-	STA 186+14.7, 29.6 LT	1													
MANHOLE 619	-	STA 186+15.0, 5.5 LT							1							
MANHOLE 619	TO	MANHOLE 620												188		
MANHOLE 620	-	STA 188+06.2, 6.0 RT				1										
MANHOLE 620	TO	STA 188+28.7, 44.2 LT (EXISTING CLAY TILE)										1			52	
MANHOLE 620	TO	MANHOLE 622													63	
MANHOLE 620	TO	MANHOLE 624												498		
MANHOLE 621A	-	STA 188+22.2, 30.8 LT	1													
MANHOLE 622	-	STA 188+43.6, 46.9 RT		1	- NEW COVER						1					
MANHOLE 623	-	STA 192+97.5, 40.7 RT		1	- NEW COVER						1					
MANHOLE 623	TO	MANHOLE 624													33	
MANHOLE 624	-	STA 193+11.4, 6.0 RT			1											
MANHOLE 624	TO	MANHOLE 627												549		
MANHOLE 625A	-	STA 194+17.0, 27.8 RT	1													
MANHOLE 626A	-	STA 198+22.8, 20.0 RT	1													
MANHOLE 627	-	STA 198+63.1, 18.5 RT			1											
MANHOLE 627	TO	MANHOLE 629												451		
MANHOLE 628A	-	STA 203198+63.1, 18.5 RT	1													
MANHOLE 629	-	STA 203+16.5, 3.8 RT			1											
MANHOLE 629	TO	MANHOLE 630													40	
MANHOLE 629	TO	MANHOLE 631												171		
MANHOLE 630	-	STA 203+25.0, 38.9 LT		1	- NEW COVER						2					
MANHOLE 630	TO	PROPOSED TRAFFIC CABINET														62
MANHOLE 631	-	STA 204+93.5, 19.8 RT		1	- NEW COVER						3					
MANHOLE 631	TO	PROPOSED TRAFFIC CABINET														62
MANHOLE 631	TO	MANHOLE 633												571		
MANHOLE 632A	-	STA 205+54.3, 19.3 RT	1													
MANHOLE 633	-	STA 210+69.0, 19.0 RT			1											
MANHOLE 633	TO	MANHOLE 635												571		
MANHOLE 635	-	STA 216+44.9, 19.0 RT							1							
TOTAL			13	4	7	2	1	1	3	2	7	1	69	6547	430	249

BENCHMARKS			
NUMBER	LOCATION	DESCRIPTION	ELEVATION
501	STA 157+03.17, 38.71' RT	HYD FLANGE BOLT NE QUAD OF COLUMBIA AND TEUTONIA	115.793
502	STA 159+99.11, 25.57' LT	HYD E FLANGE BOLT W SIDE OF TEUTONIA AND BURLEIGH	113.677

BEGIN PROJECT 2080-00-72
STA 149+76.53

CONSTRUCT DRWY
STA 150+86.62 LT

CONSTRUCTION PERMIT
CALVARY BAPTIST CHURCH

CONSTRUCT DRWY
STA 152+18.85 LT

CONSTRUCTION PERMIT
CALVARY BAPTIST
CHURCH

UNION CEMETERY

CONSTRUCTION PERMIT
UNION CEMETERY

R/L N. TEUTONIA AVE

BM #502

R/W (TYP)

SLOPE INTERCEPT (TYP)

W. CHAMBERS ST

W. GROELING AVE

N. TEUTONIA AVE

W. COLUMBIA ST

W. BURLEIGH ST

CONSTRUCTION PERMIT
CALVARY BAPTIST
CHURCH

CONSTRUCT DRWY
STA 151+53.01 RT

CONSTRUCT DRWY
STA 152+42.49 RT

CONSTRUCT DRWY
STA 152+82.36 RT

CONSTRUCTION PERMIT
CALVARY BAPTIST
CHURCH

SLOPE INTERCEPT (TYP)
CONSTRUCT DRWY
STA 155+66.74 RT

CAUTION: ACTIVE WINDOW WELL
WORK BY OTHERS SEE PROPOSAL
ARTICLE "PROSECUTION AND PROGRESS"
FOR MORE INFORMATION

BM #501

ABANDON DRIVEWAY

CONSTRUCT DRWY
STA 162+26.71 RT

150 152 154 156 158 160 162

48 52

N

5 5

130 125 120 115 110 105 100 95 90

VPI STA 149+76.53
VPI EL 115.12
VPI STA 150+00.00
VPI EL 115.24

0.50%

0.69%

VPI STA 152+00.00
VPI EL 116.62

EXISTING PROFILE AT R/L

0.50%

VPI STA 154+00.00
VPI EL 117.62

VPT STA 155+00.00
VPT EL 116.60

-1.02%

PROPOSED PROFILE AT R/L

VPC STA 153+00.00
VPC EL 117.12

HP STA 153+65.60
HP EL 117.29

VCL = 200'
K = 131

VPC STA 159+26.94
VPC EL 112.23

VCL = 200'
K = 117

LP STA 160+46.97
LP EL 111.61

VPT STA 161+26.94
VPT EL 111.88

0.68%

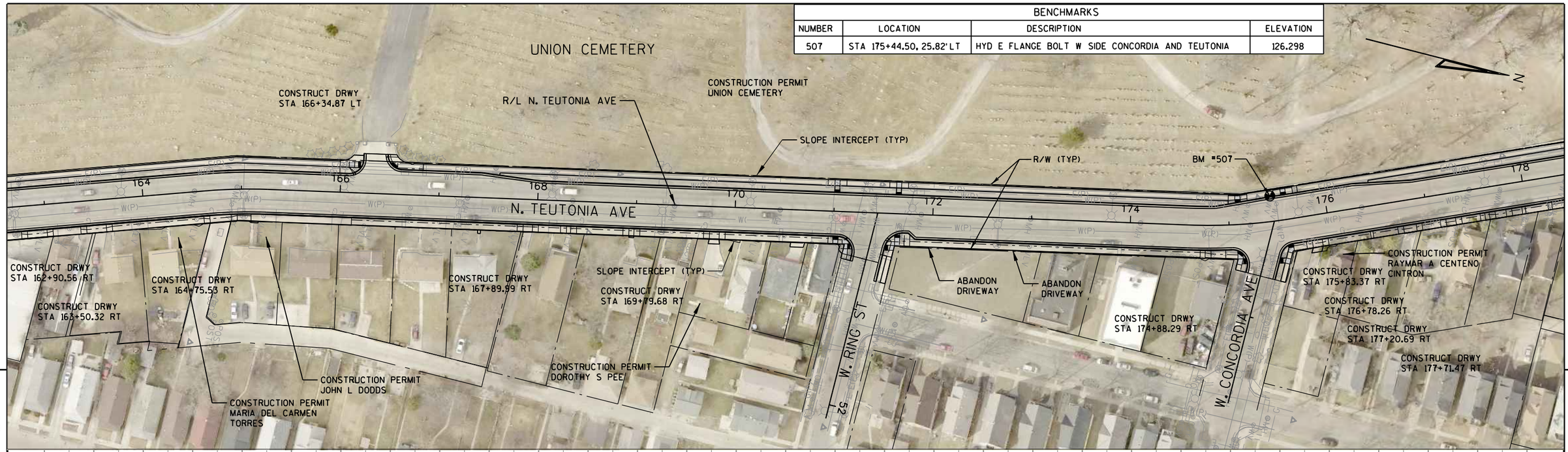
VPI STA 160+26.94
VPI EL 111.20

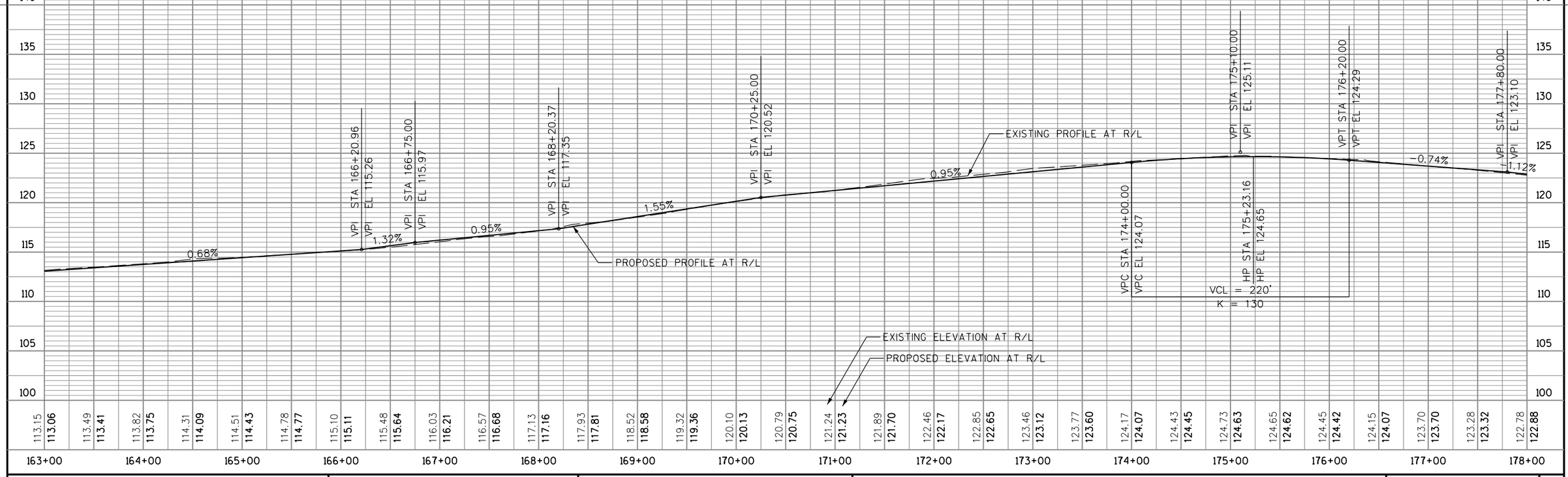
BEGIN PROJECT 2080-00-72
STA 149+76.53

EXISTING ELEVATION AT R/L
PROPOSED ELEVATION AT R/L

| | | |

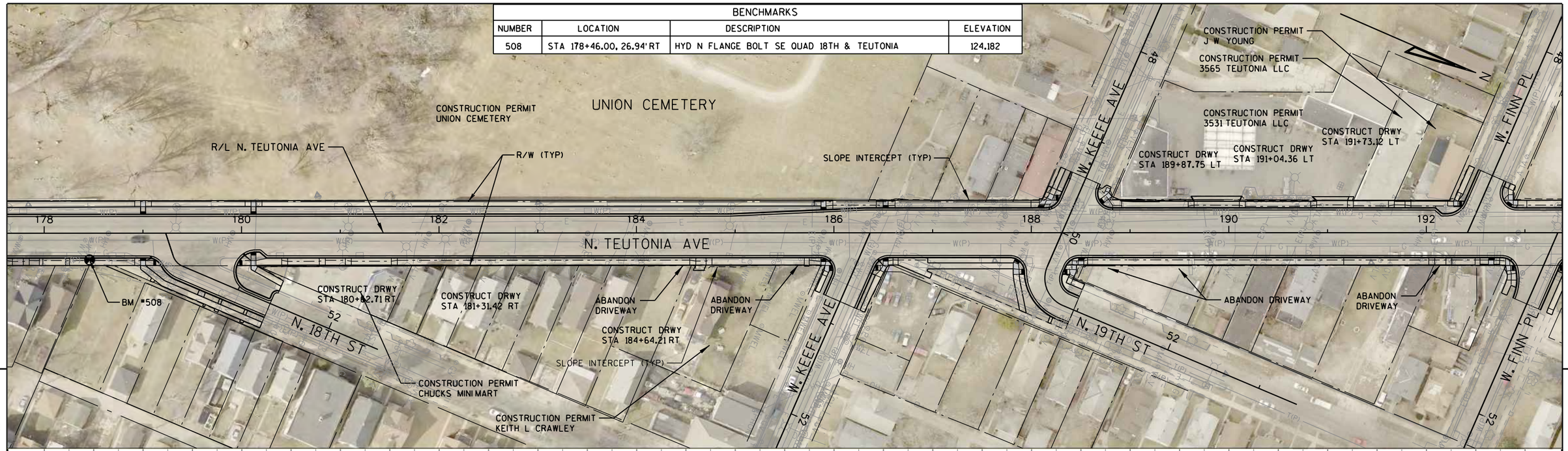
BENCHMARKS			
NUMBER	LOCATION	DESCRIPTION	ELEVATION
507	STA 175+44.50, 25.82' LT	HYD E FLANGE BOLT W SIDE CONCORDIA AND TEUTONIA	126.298

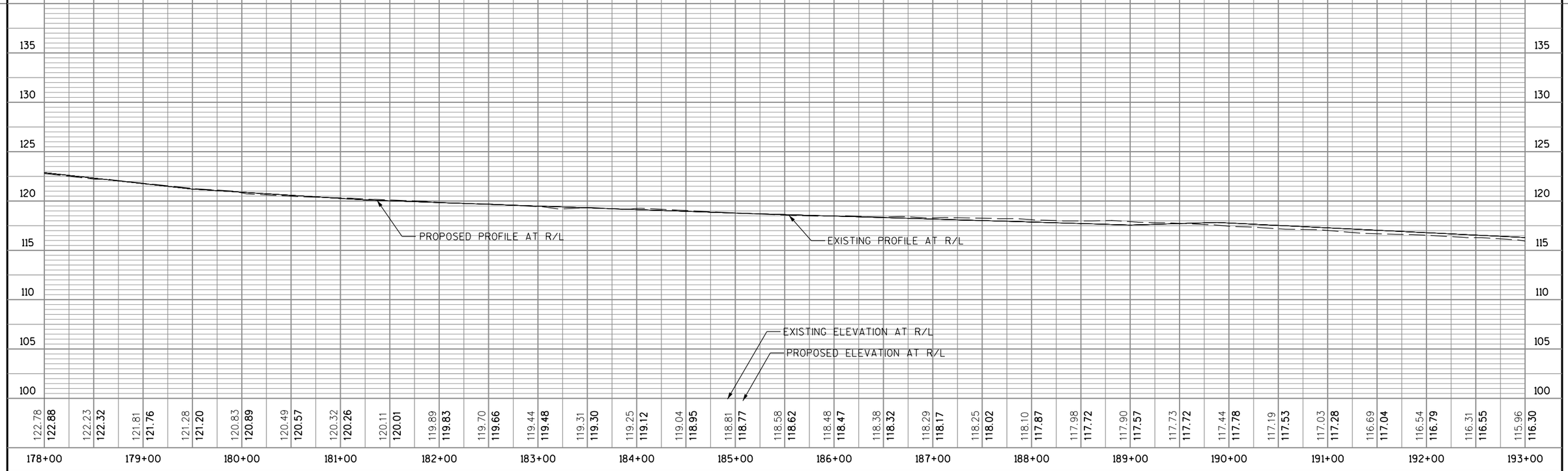




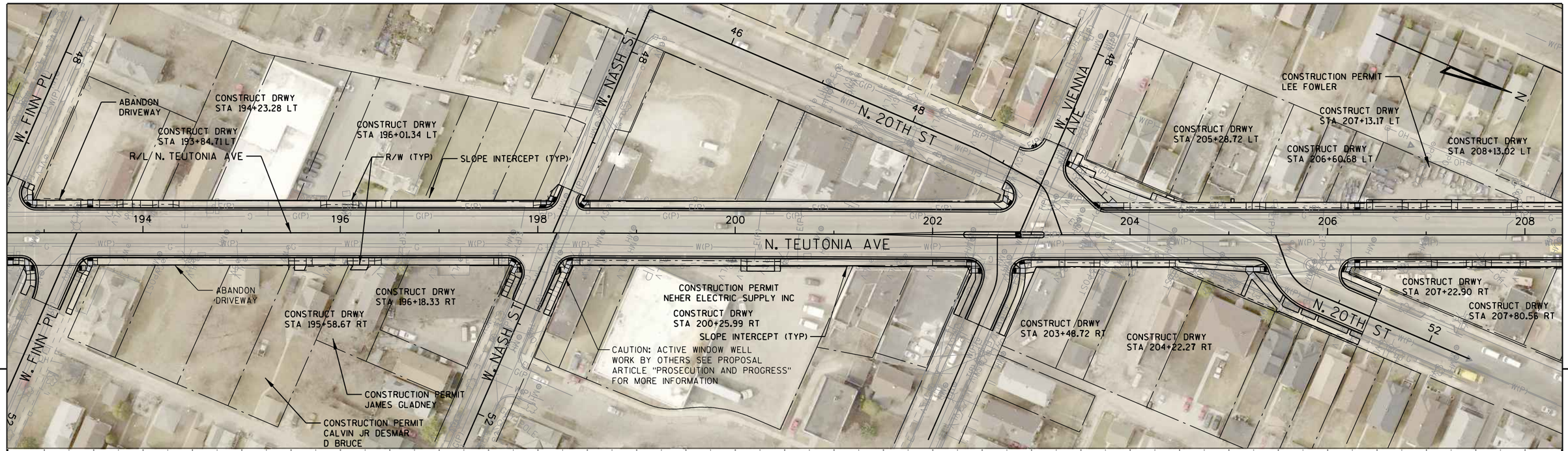
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: N. TEUTONIA AVE	SHEET 266	E

BENCHMARKS			
NUMBER	LOCATION	DESCRIPTION	ELEVATION
508	STA 178+46.00, 26.94' RT	HYD N FLANGE BOLT SE QUAD 18TH & TEUTONIA	124.182

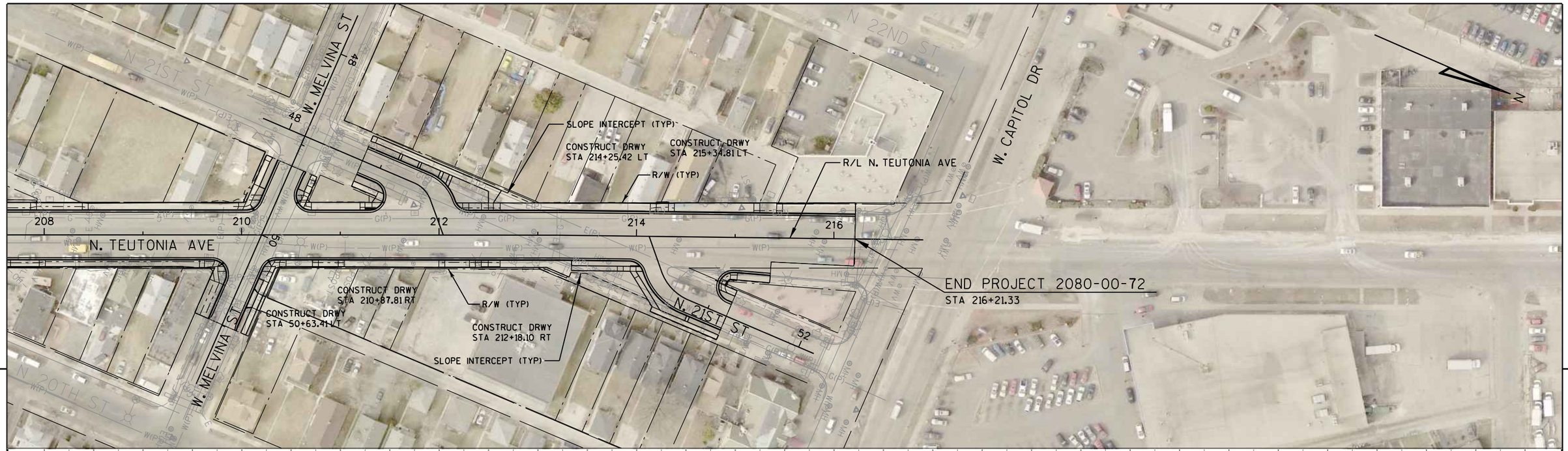


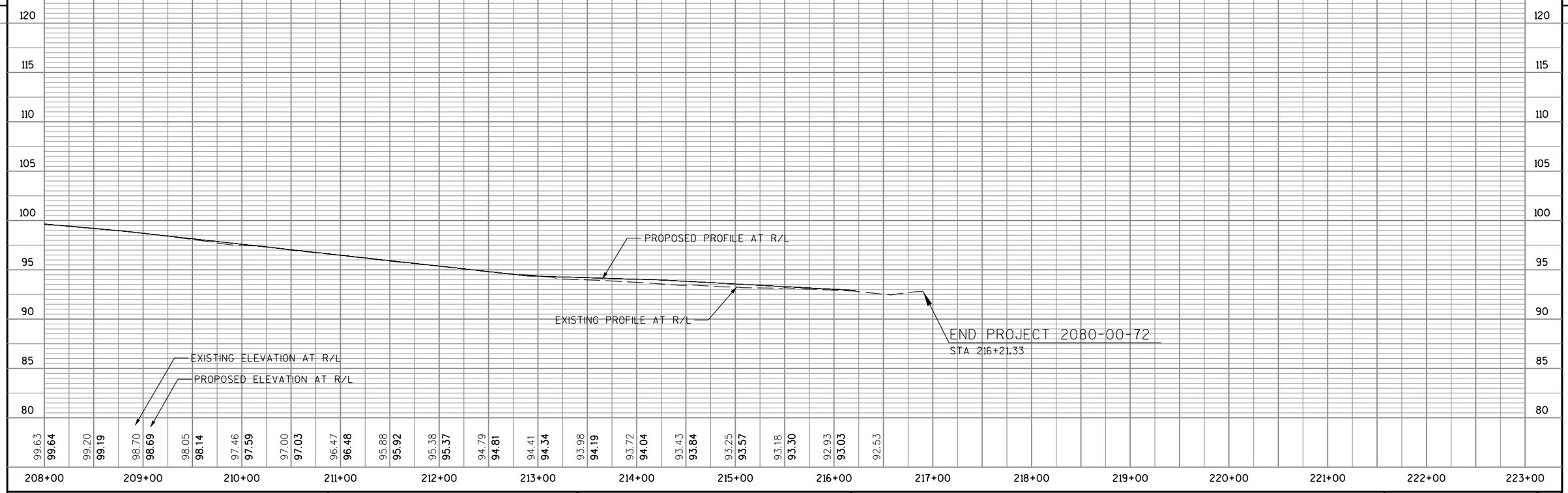


PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: N. TEUTONIA AVE	SHEET 267 E



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: N. TEUTONIA AVE	SHEET 268	E





PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: N. TEUTONIA AVE	SHEET 269	E

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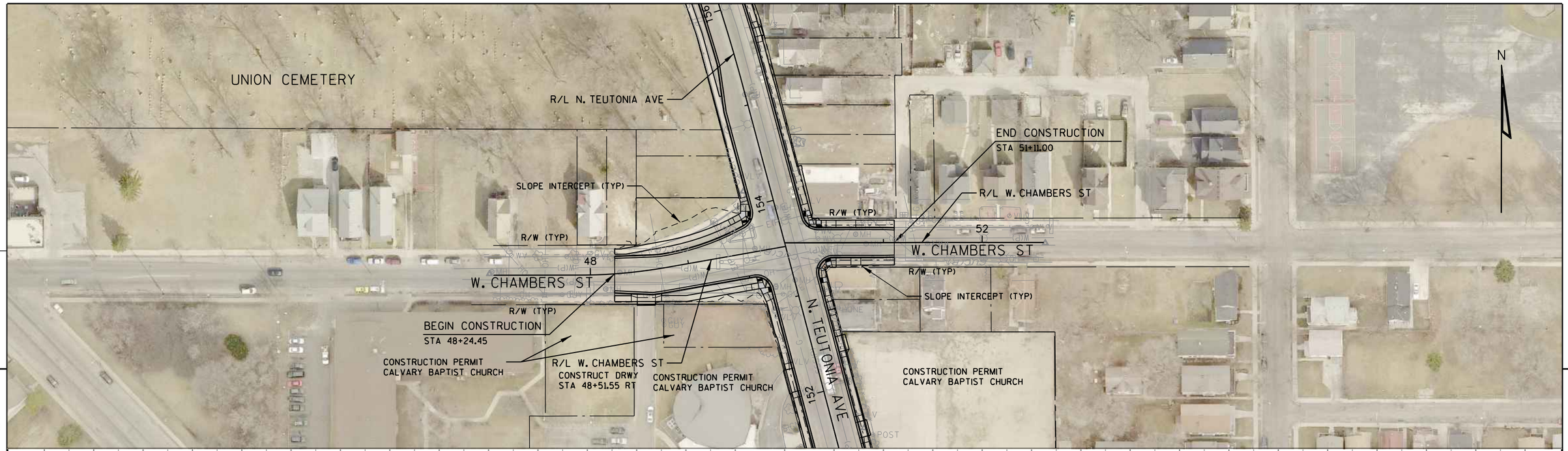
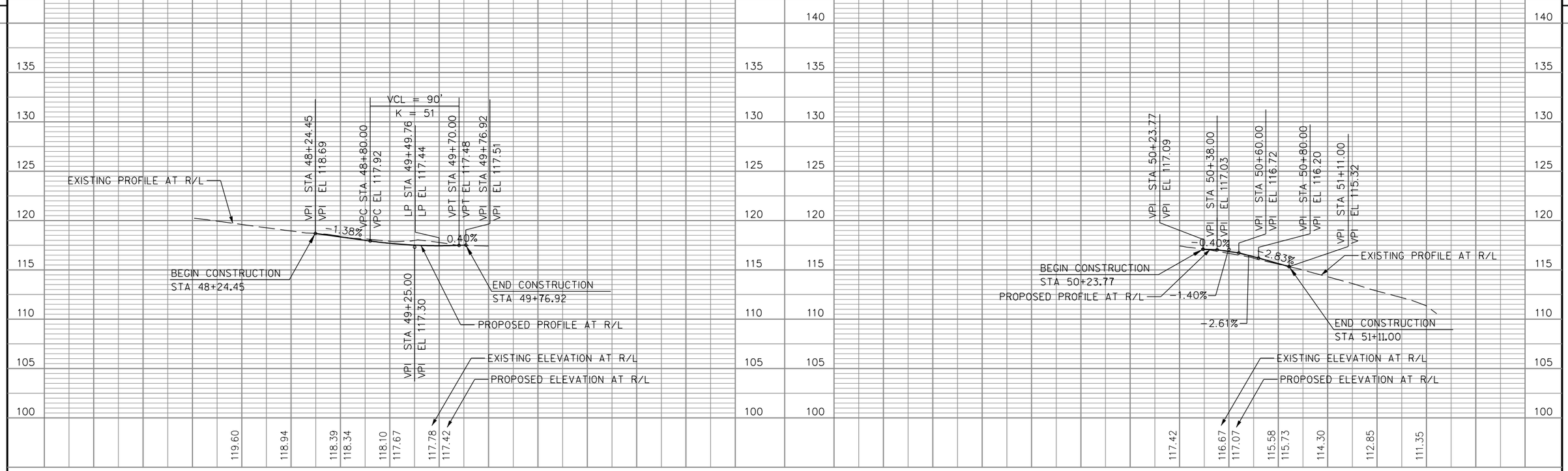
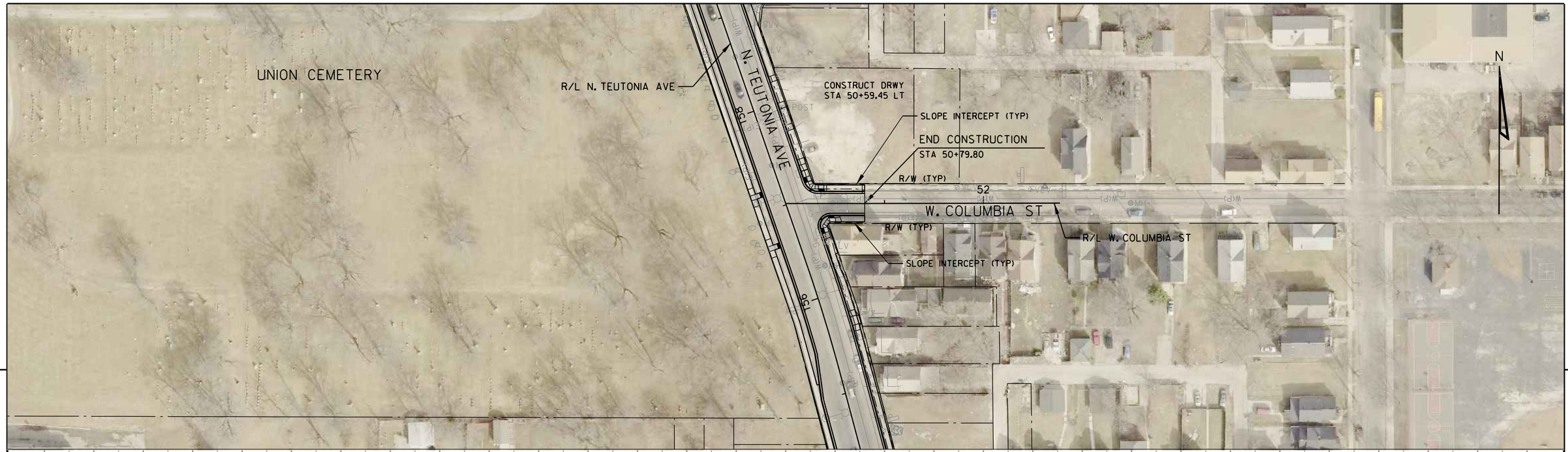
WISDOT/CADDS SHEET 45





PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. CHAMBERS ST	SHEET 270	E



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. COLUMBIA ST	SHEET 271	E

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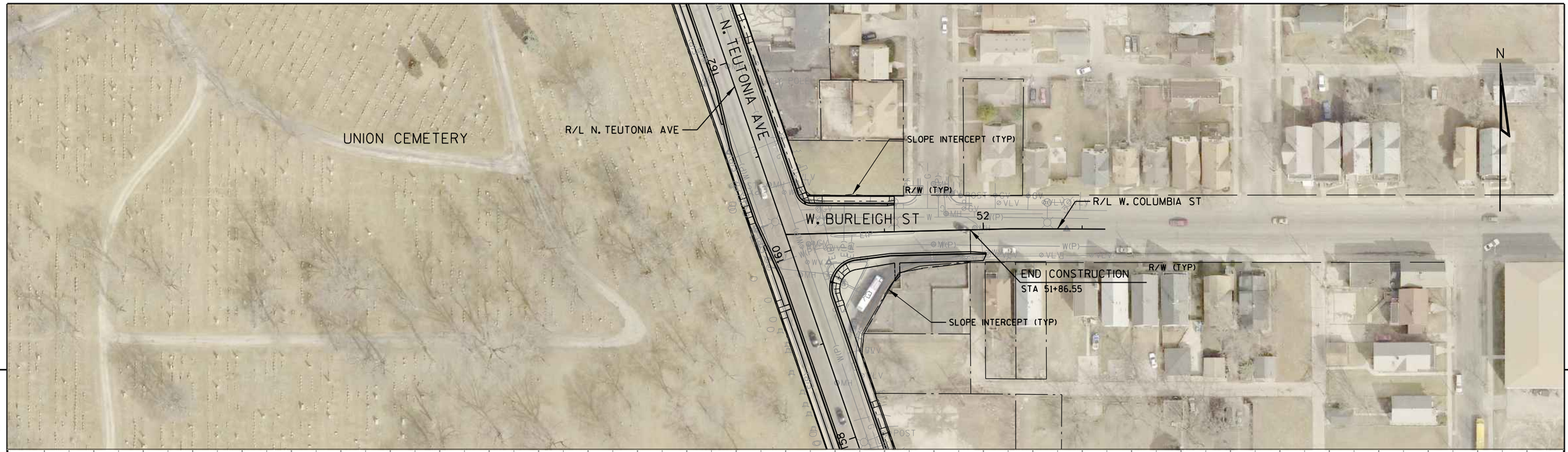
WISDOT/CADDS SHEET 45



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. BURLEIGH ST	SHEET 272	E

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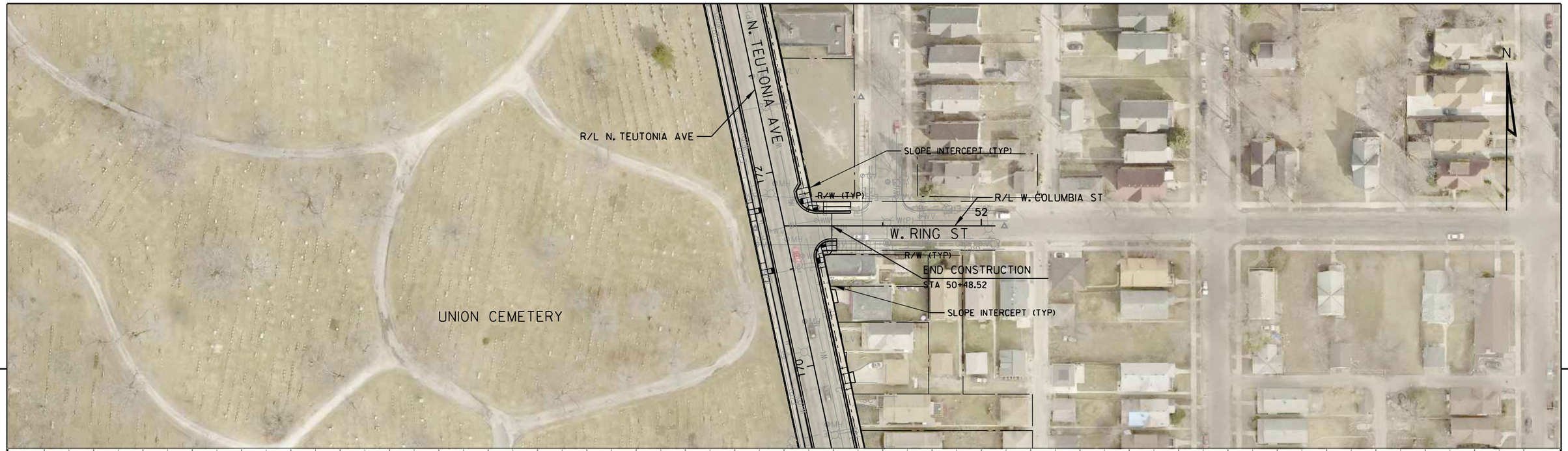
WISDOT/CADDS SHEET 45



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RING ST	SHEET 273 E

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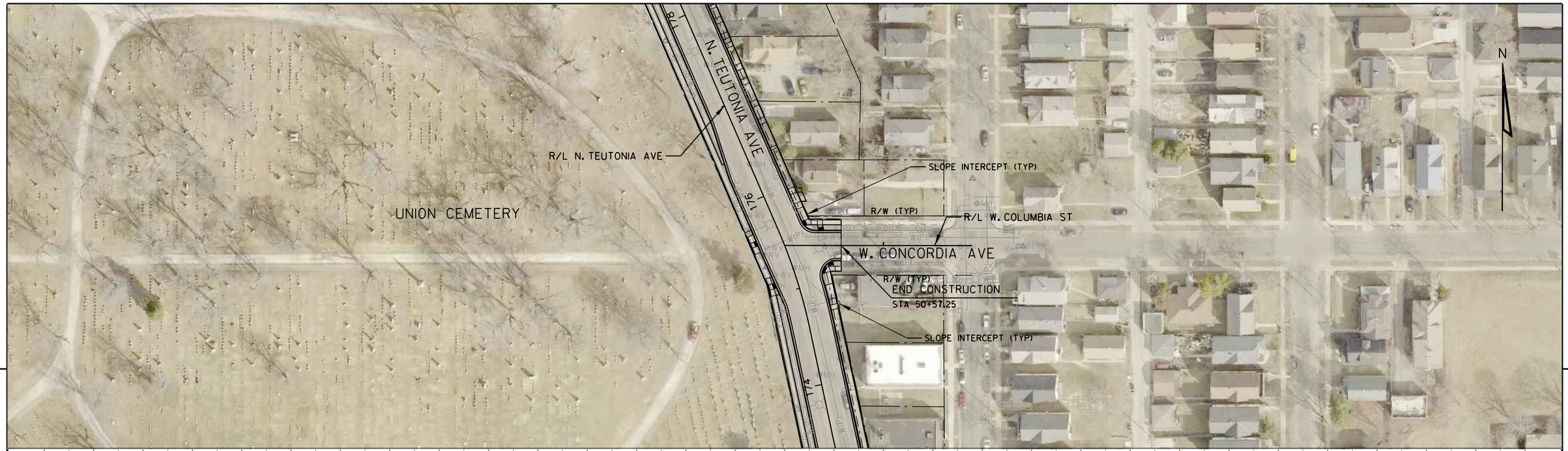

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. CONCORDIA AVE	SHEET 274	E

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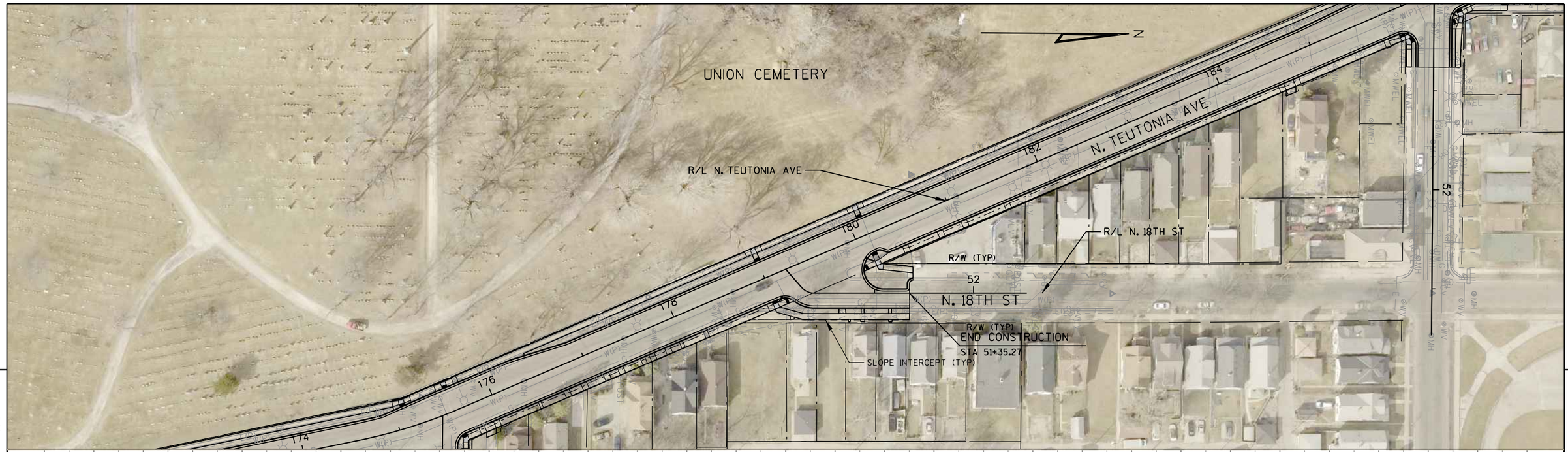

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: N. 18TH ST	SHEET 275 E

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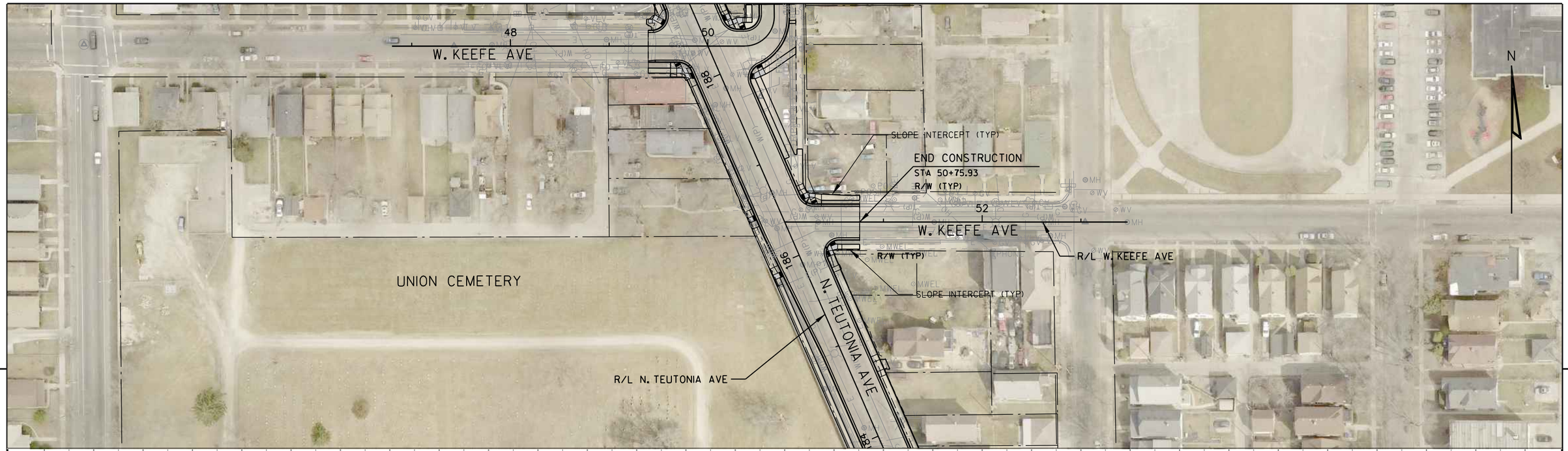

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE:	SHEET 276	E

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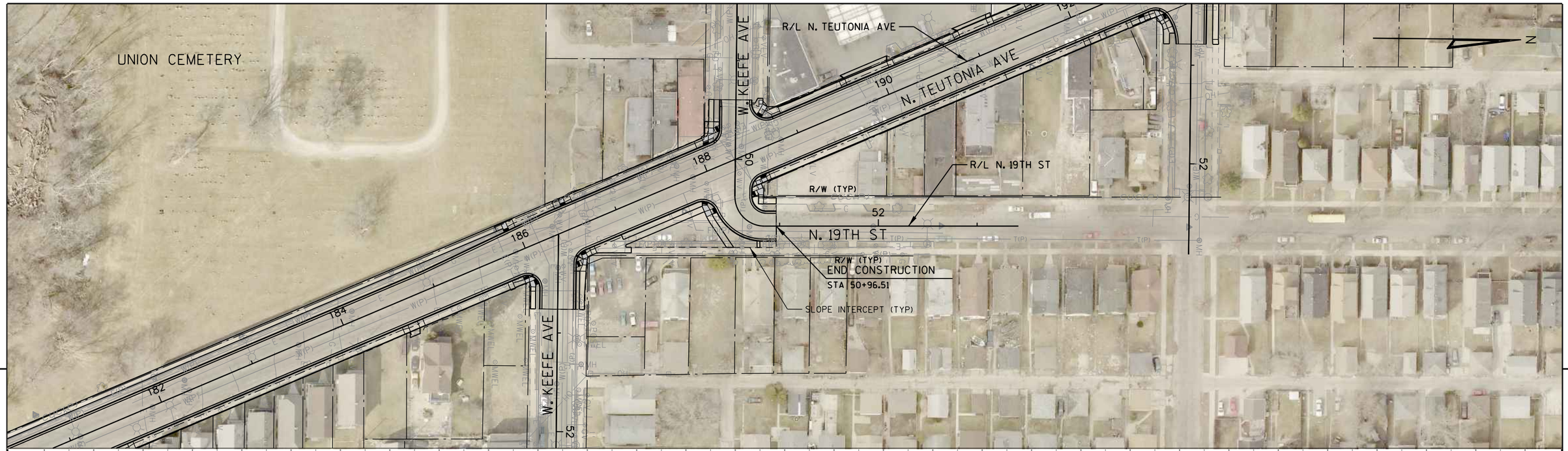
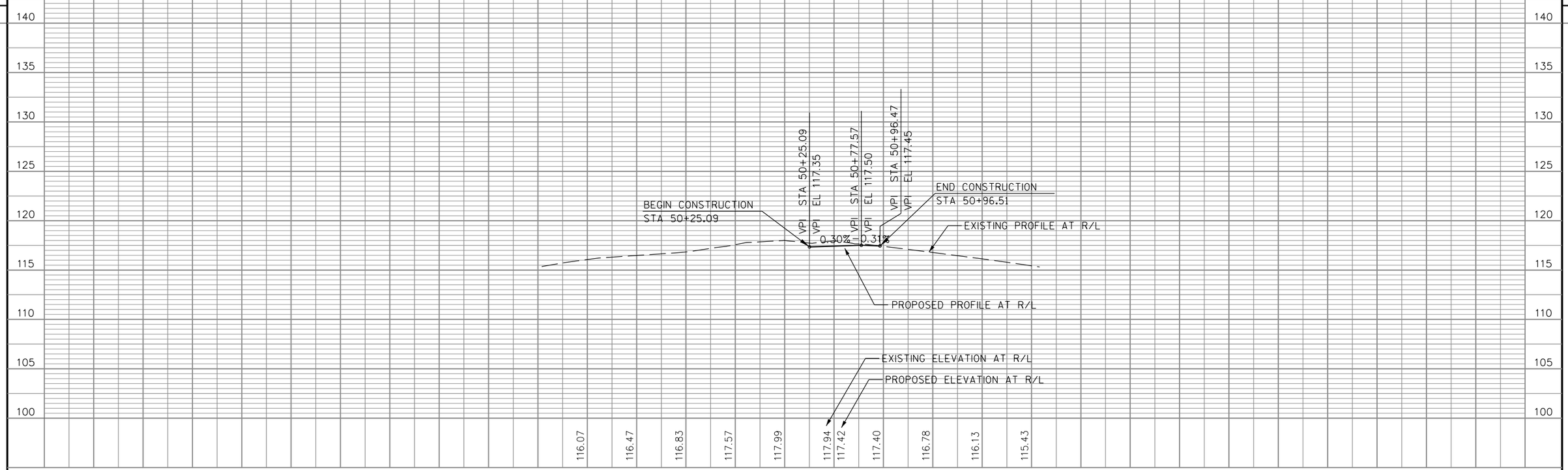
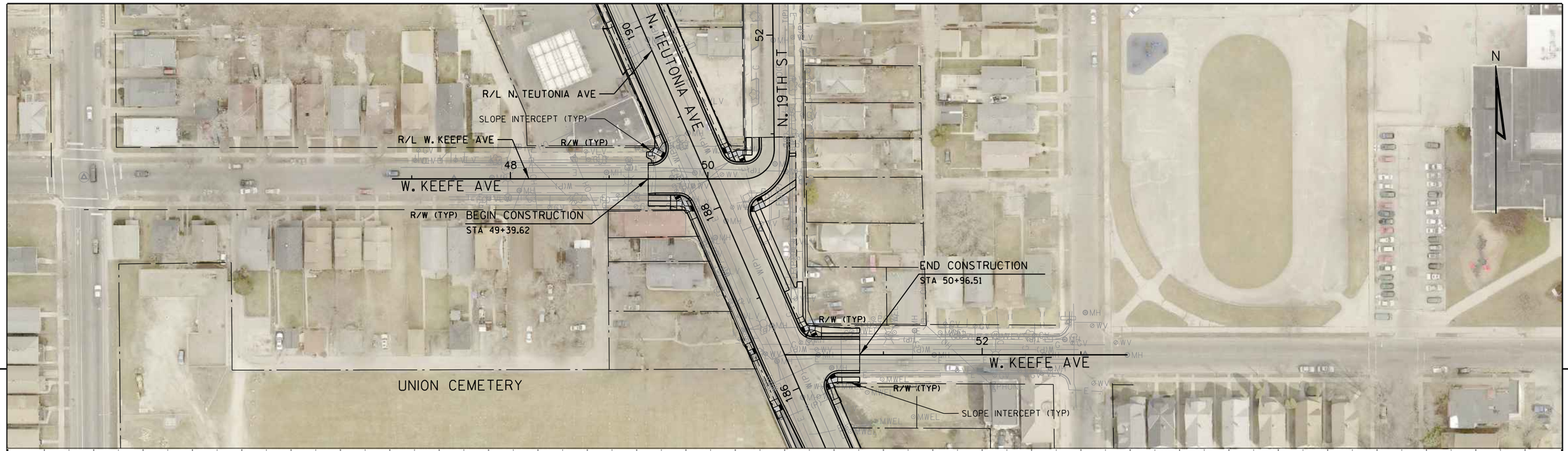
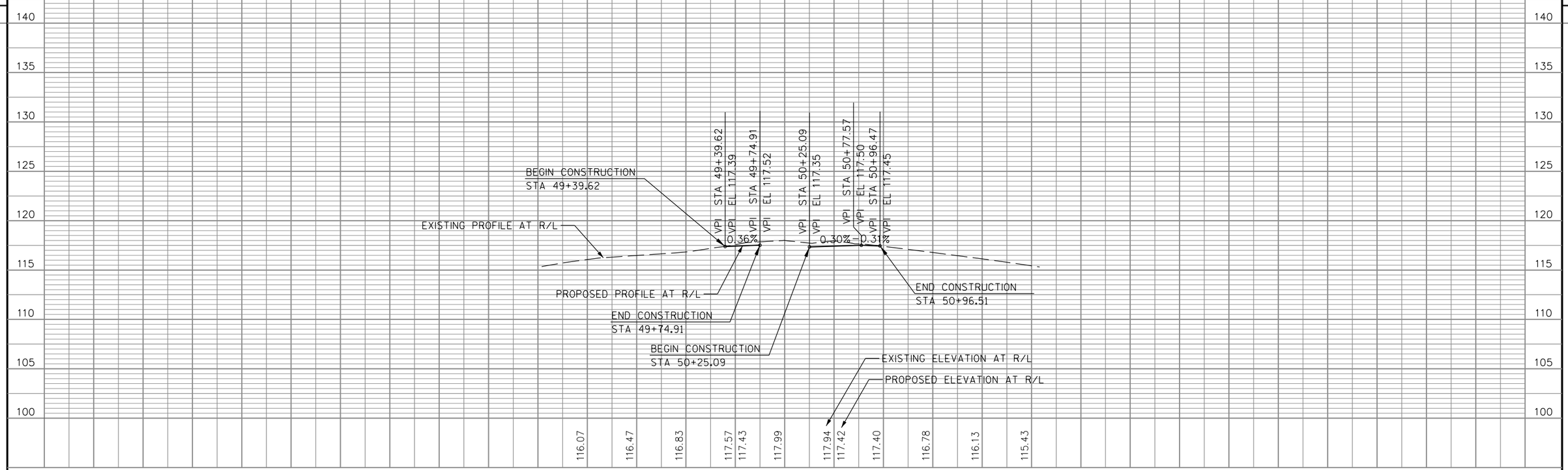




PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: N. 19TH ST	SHEET 277	E





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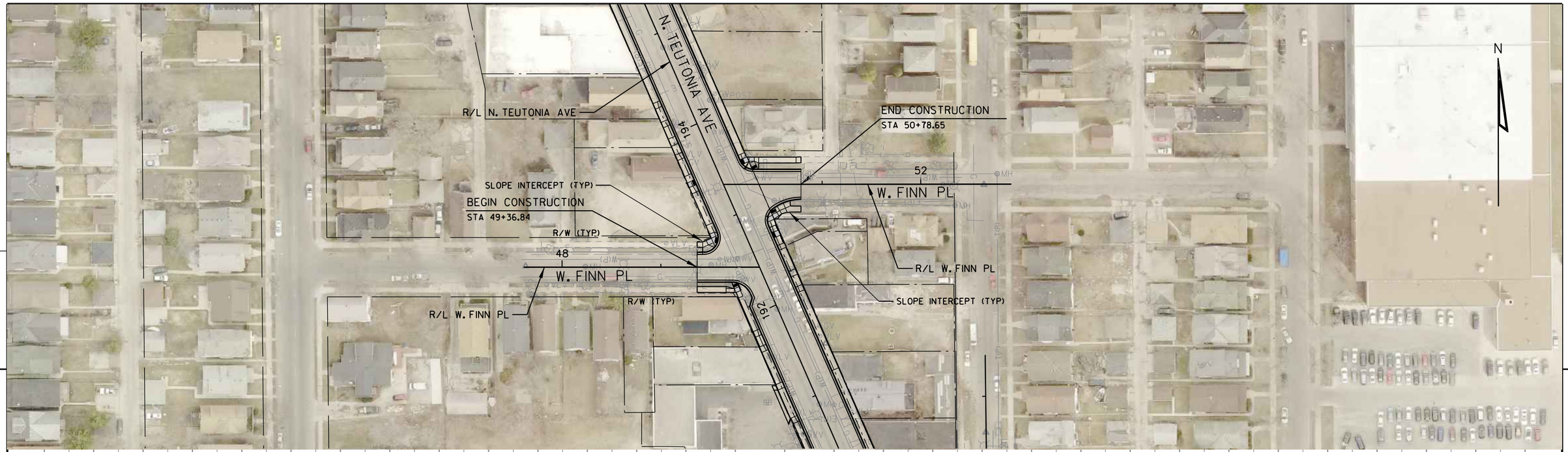
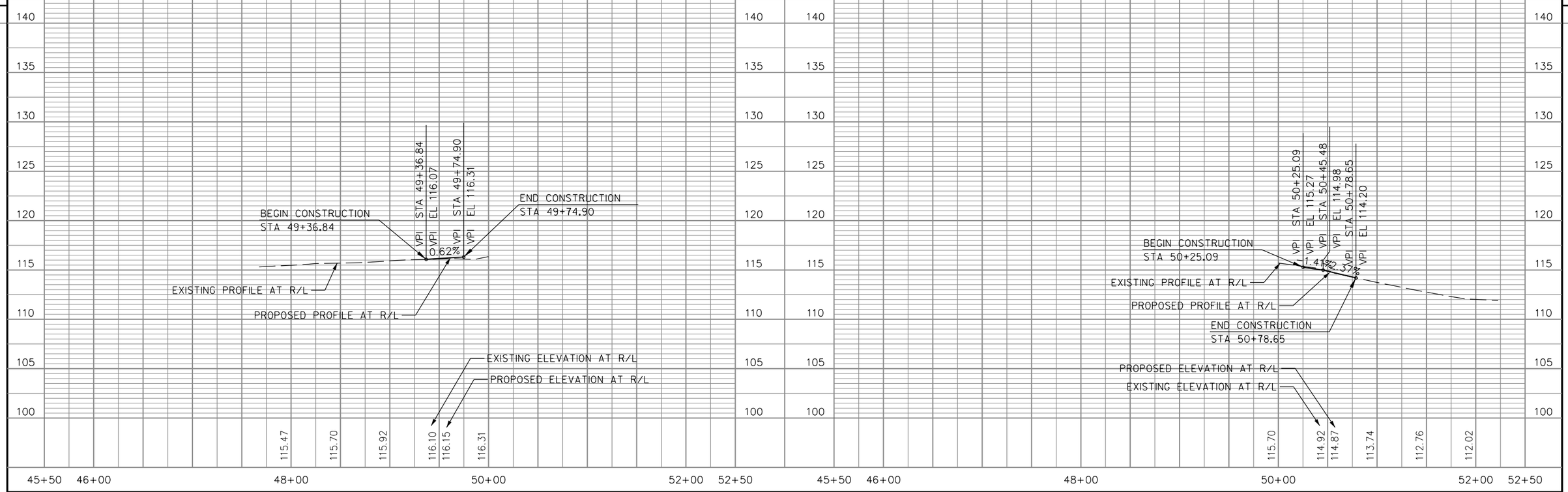
WISDOT/CADDS SHEET 45





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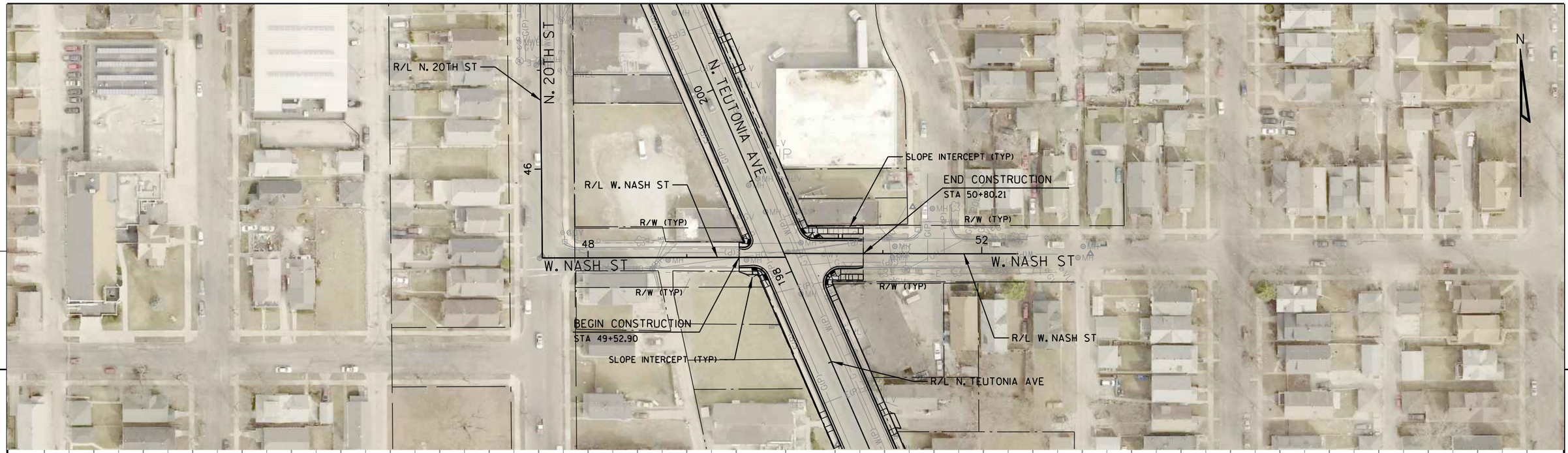

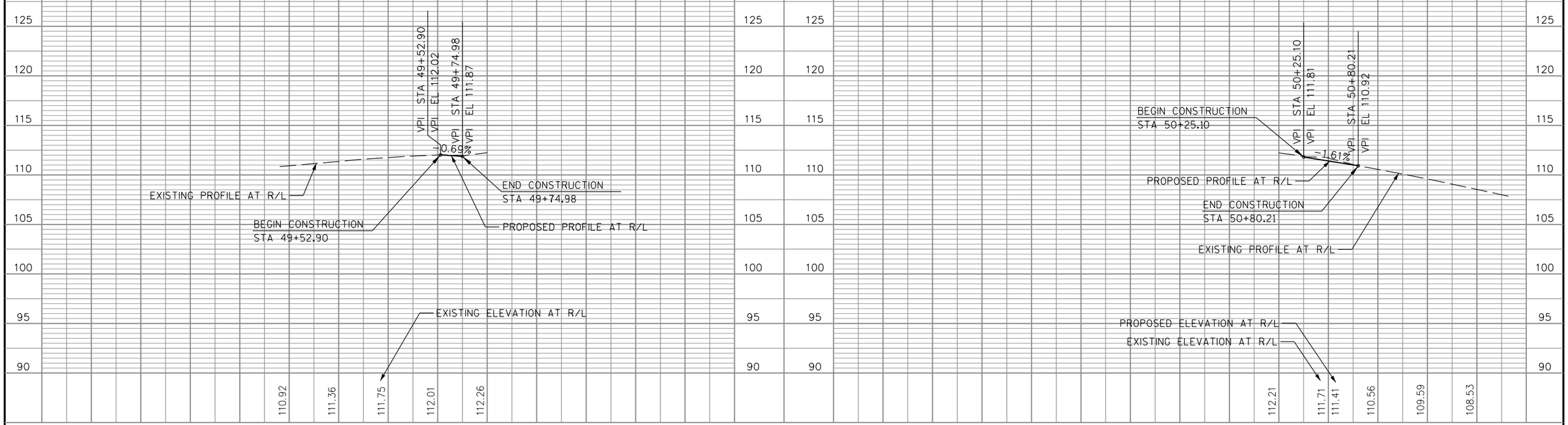

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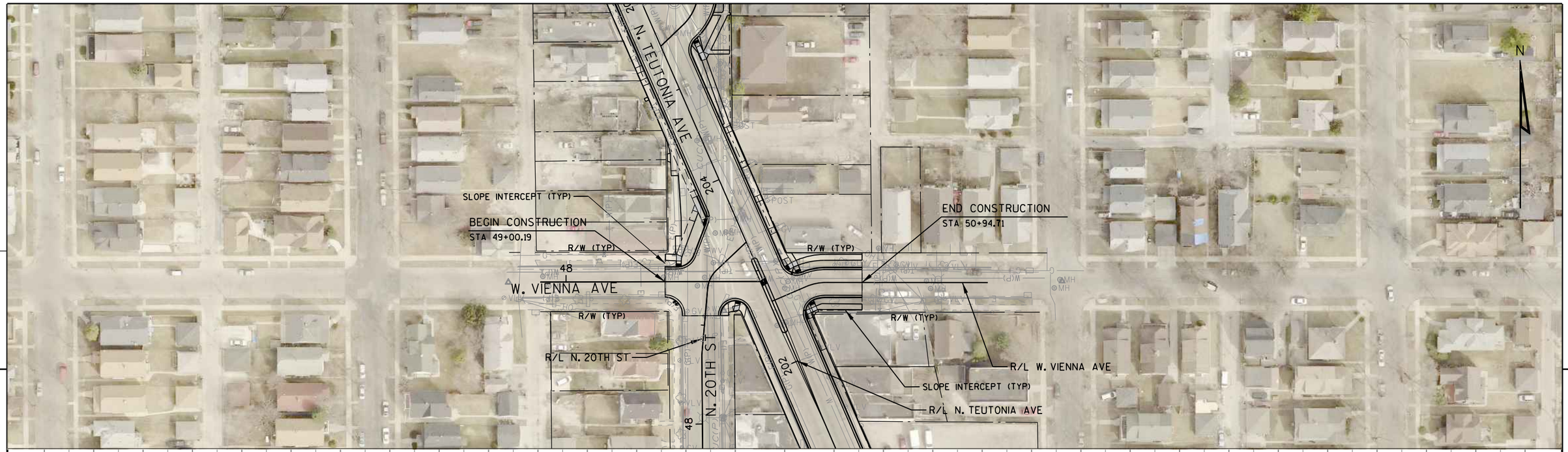

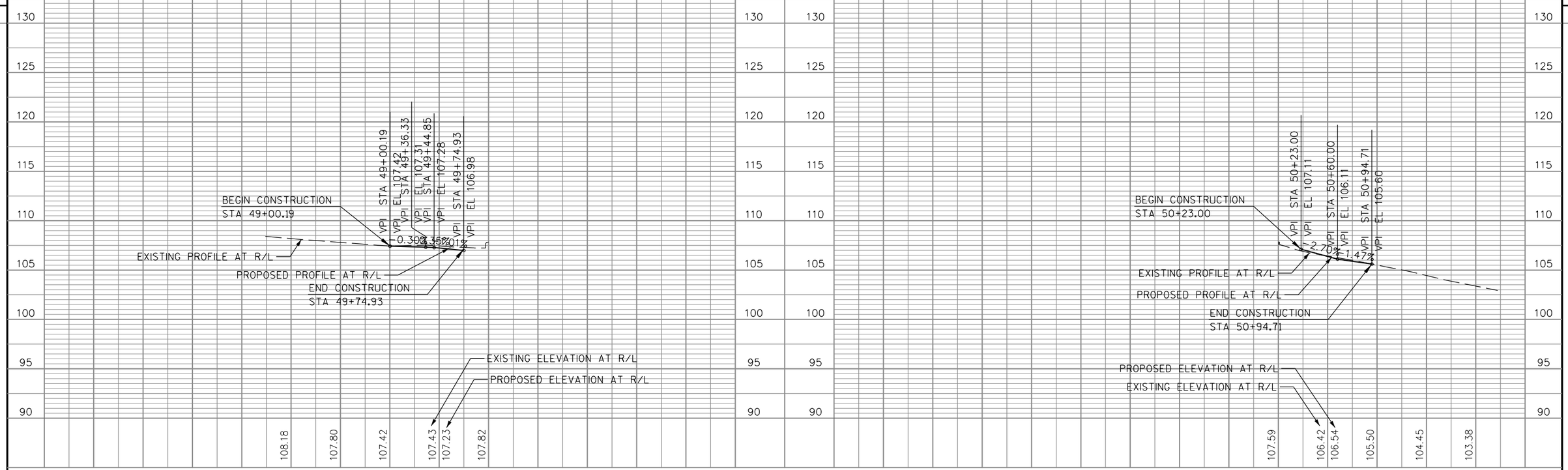

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. VIENNA AVE	SHEET 281	E

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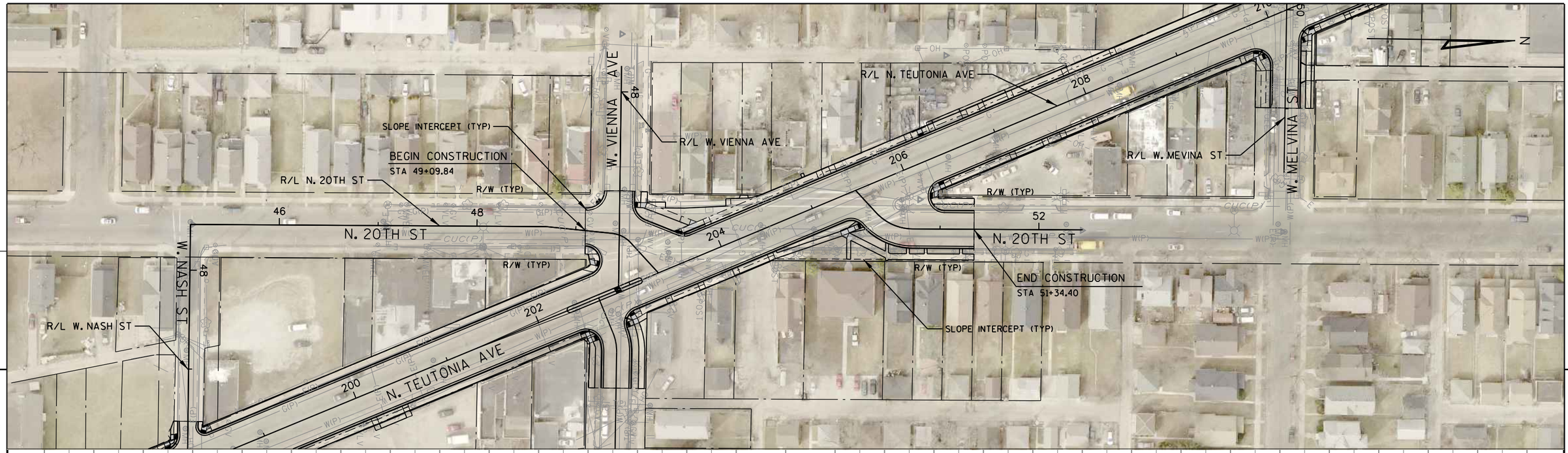
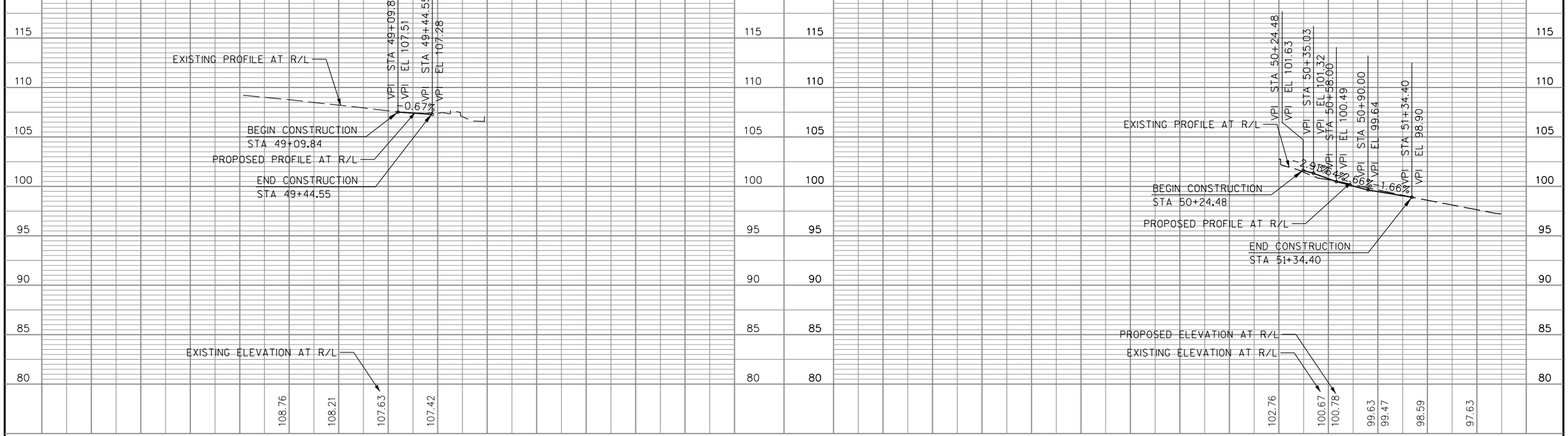
WISDOT/CADDS SHEET 40





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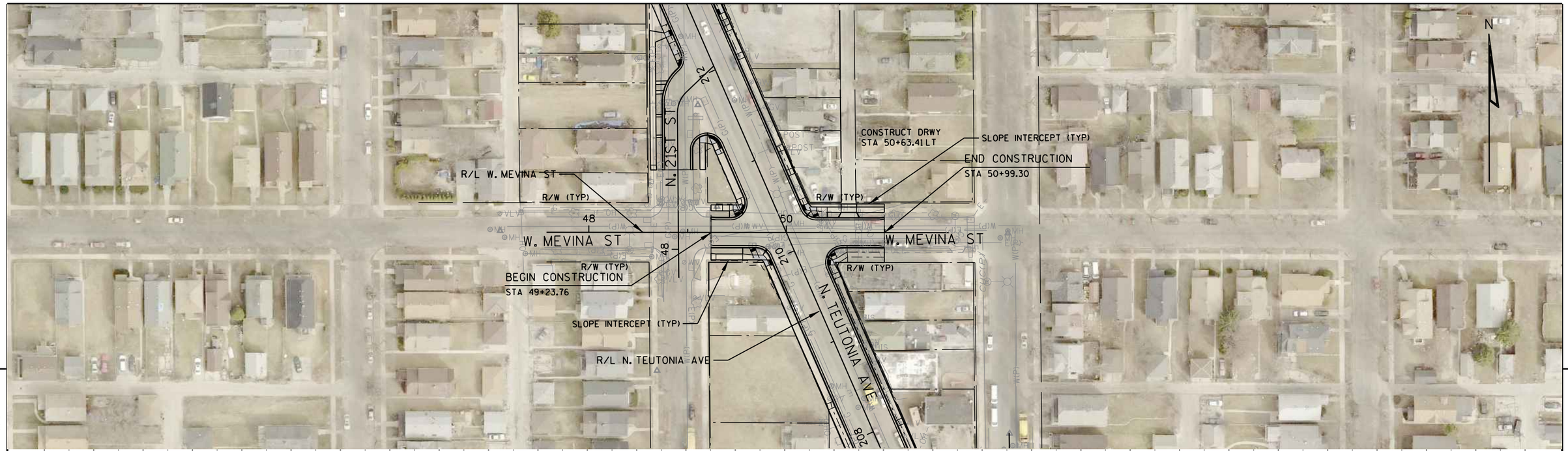

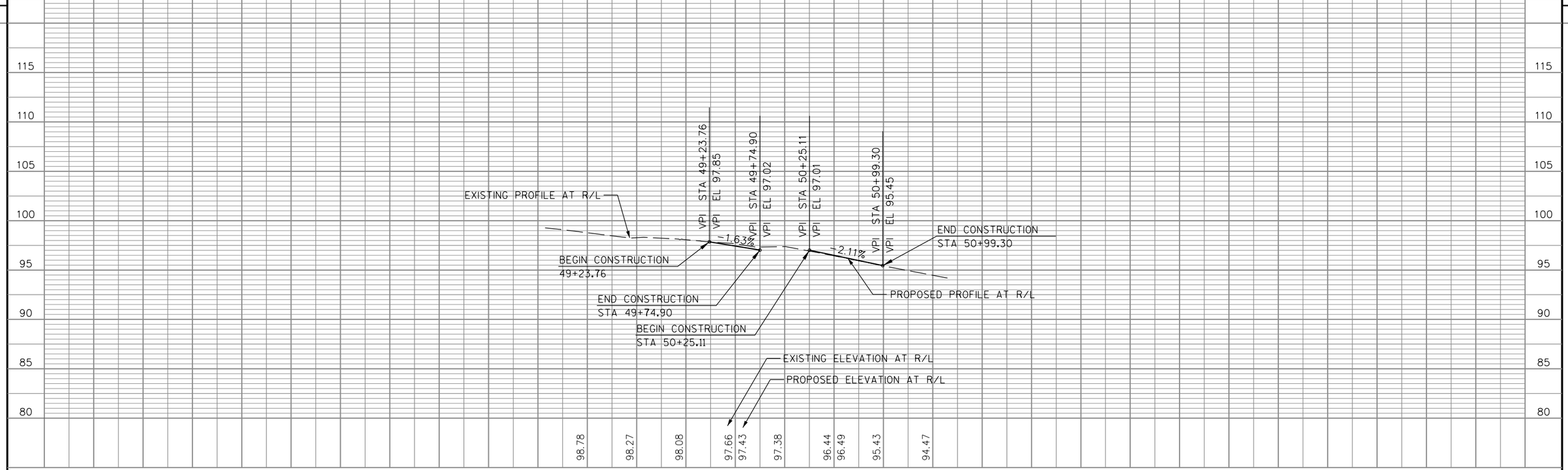

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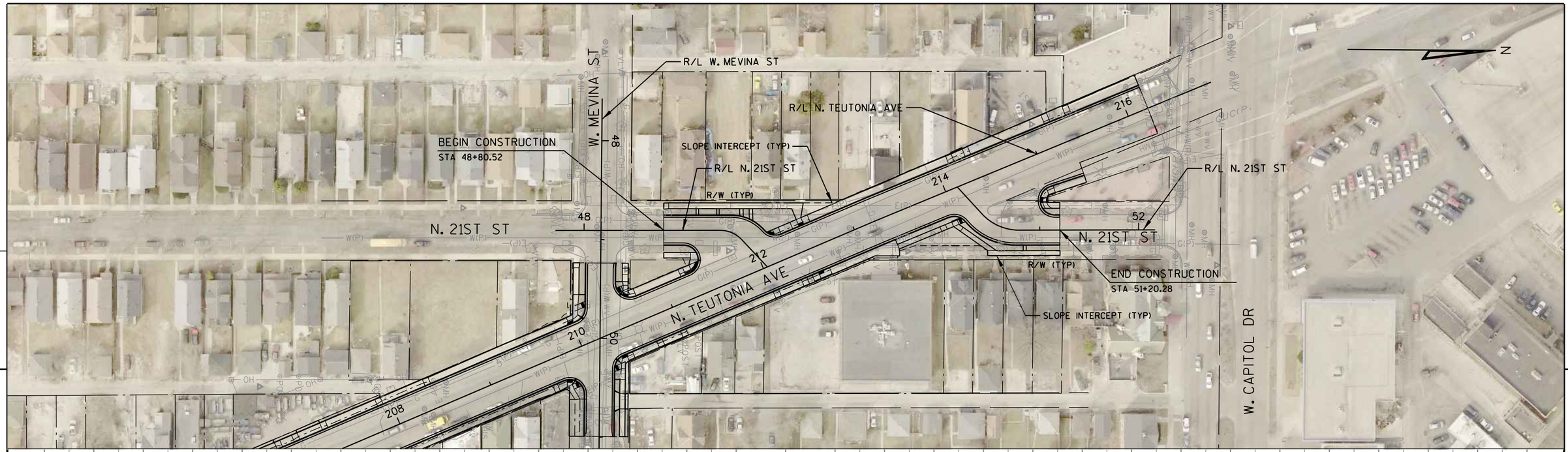

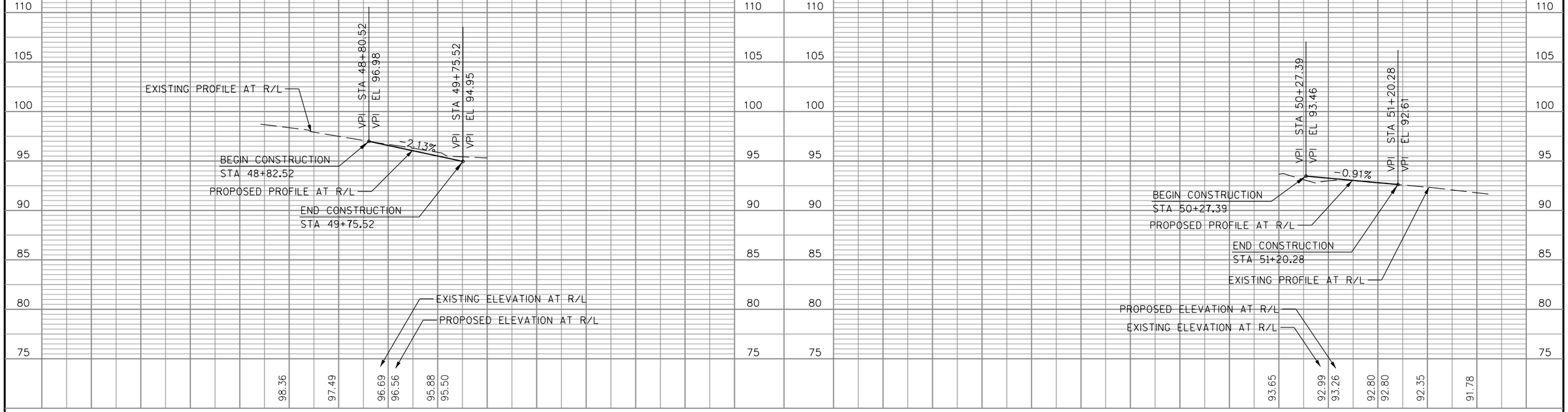

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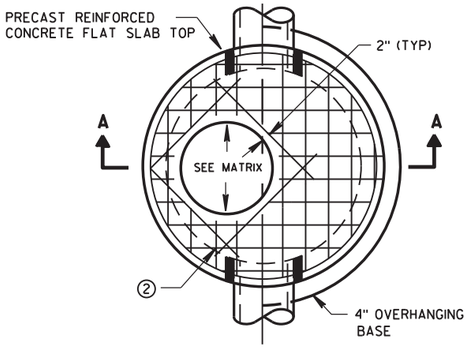
WISDOT/CADDS SHEET 40

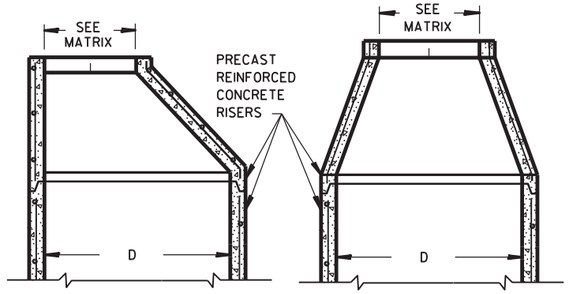
Standard Detail Drawing List

08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-10	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C11-10	CONCRETE BASE TYPE 10
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-08B	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-08E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C04-17	URBAN NON-DOWELED CONCRETE PAVEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
14A01-03	TREE PRESERVATION DETAILS
14A02-01	TREE PLANTING DETAIL
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14A	PAVEMENT MARKING SYMBOLS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C27-03A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C29-06A	BICYCLE LANE MARKING
15C29-06B	PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-06	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-05A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-05B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-05C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

6

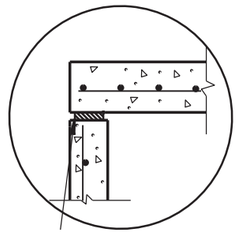


PLAN VIEW CIRCULAR OPENING

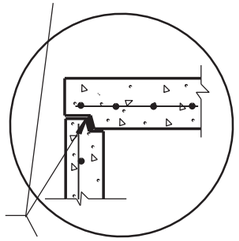


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

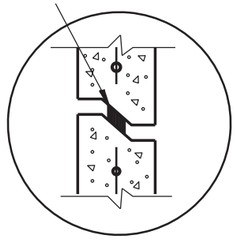


TOP WITH PLAIN END JOINT



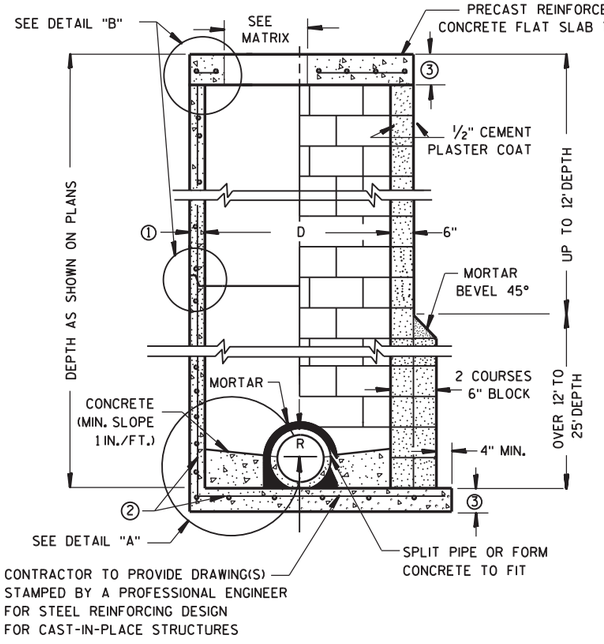
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



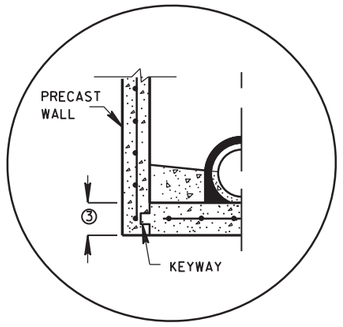
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

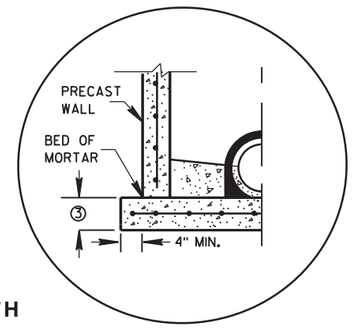


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

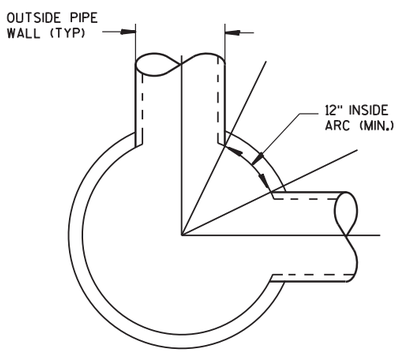


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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 DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

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 MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

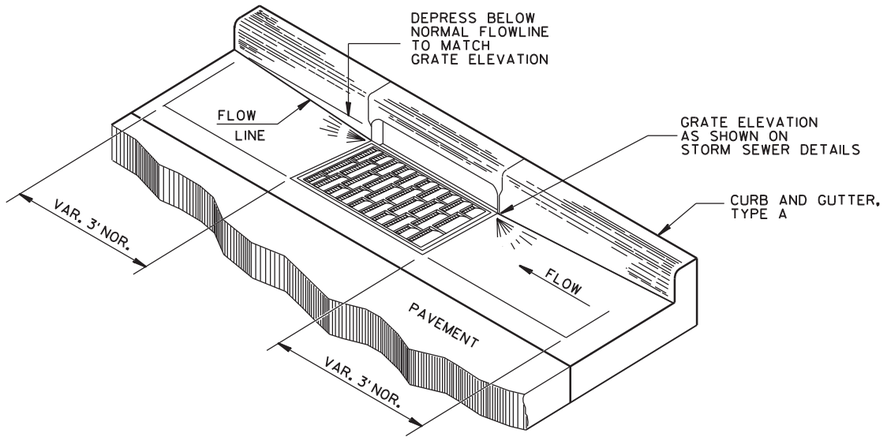
285

6

S.D.D. 8 B 9-2

6

S.D.D. 8 B 9-2



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

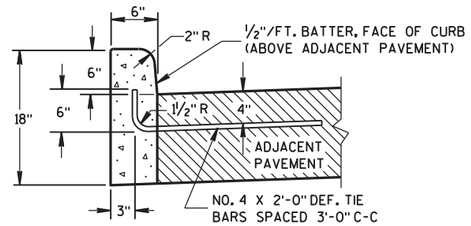
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

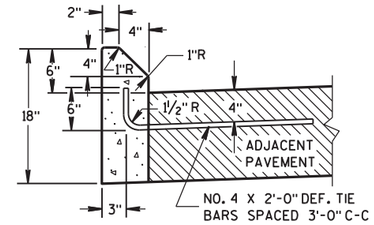
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

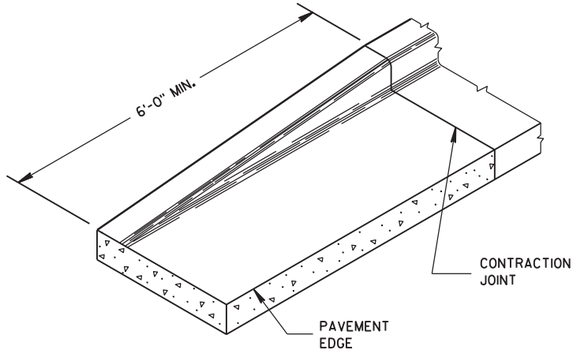


TYPES A(1) & D

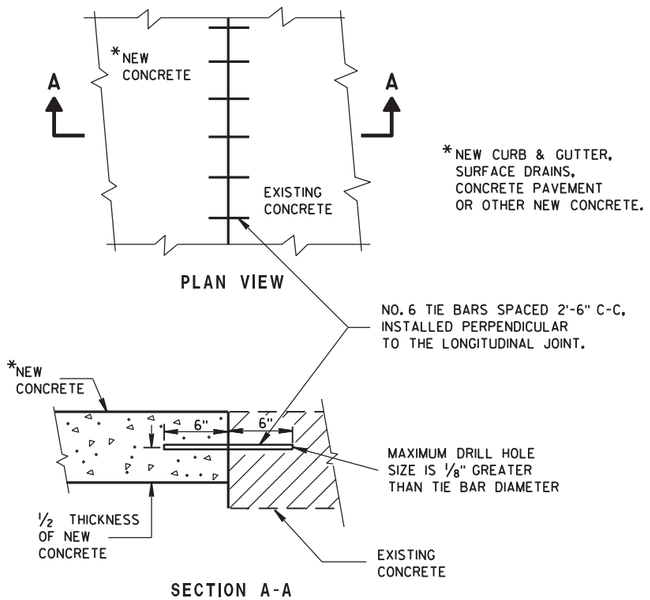


TYPES G(1) & J

CONCRETE CURB



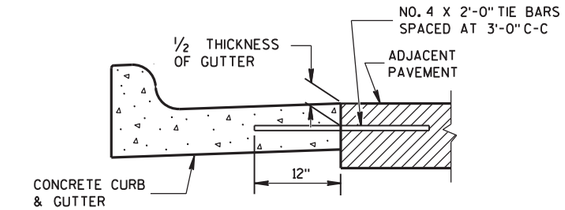
END SECTION CURB & GUTTER



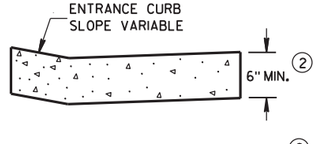
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

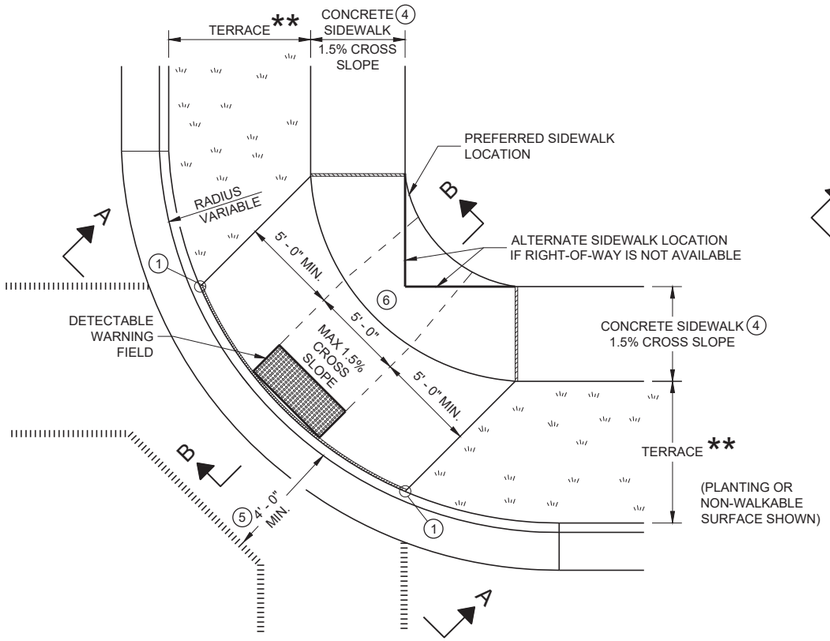
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
286 — ENT
FHWA

6

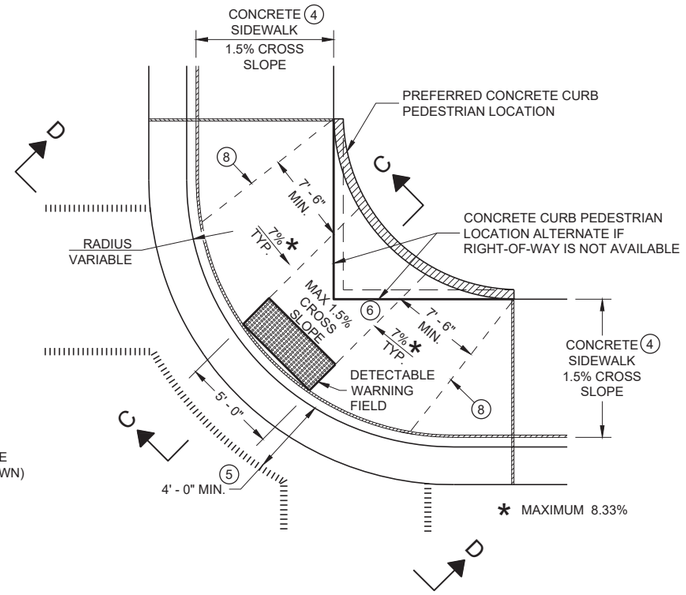
S.D.D. 8 D 1-20b



PLAN VIEW

CURB RAMP TYPE 1

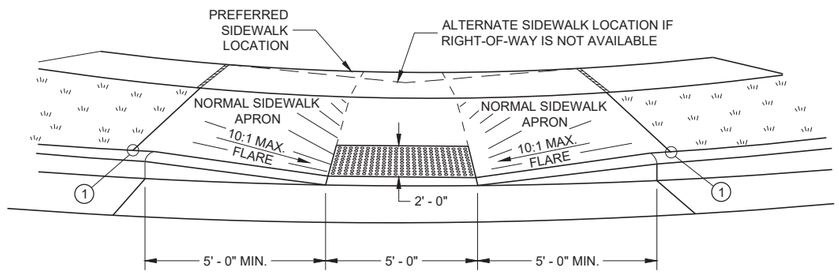
(CENTER OF CORNER RADIUS)



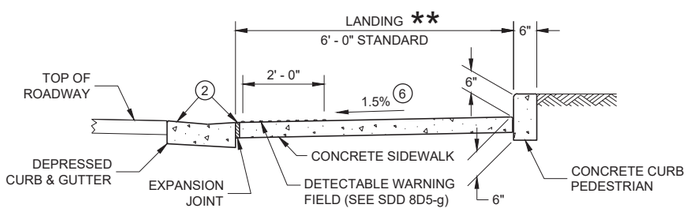
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

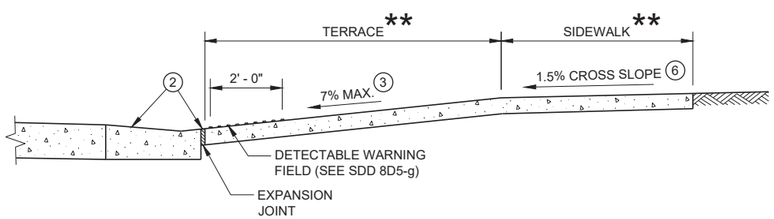


VIEW A - A FOR TYPE 1

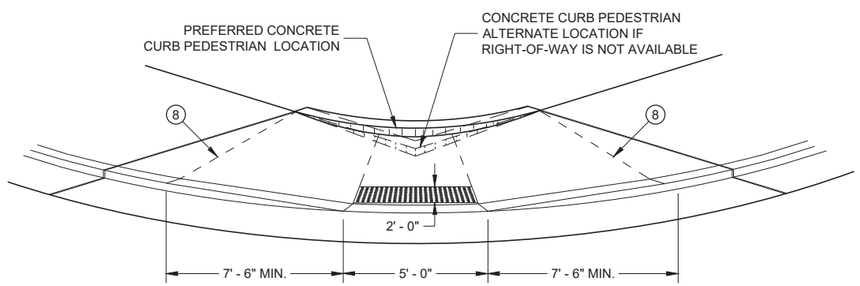


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

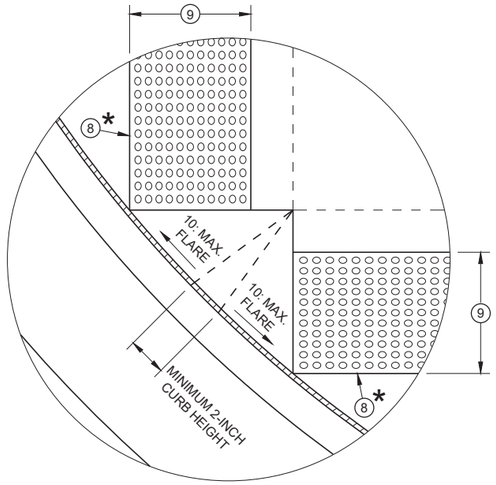
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

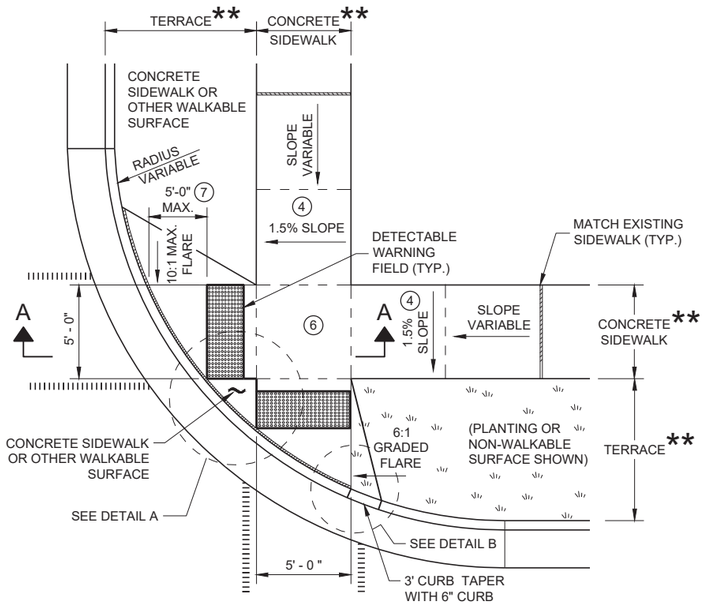
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

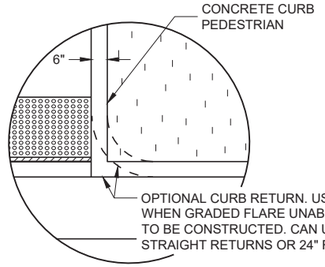
SDD 08D05 - 20a



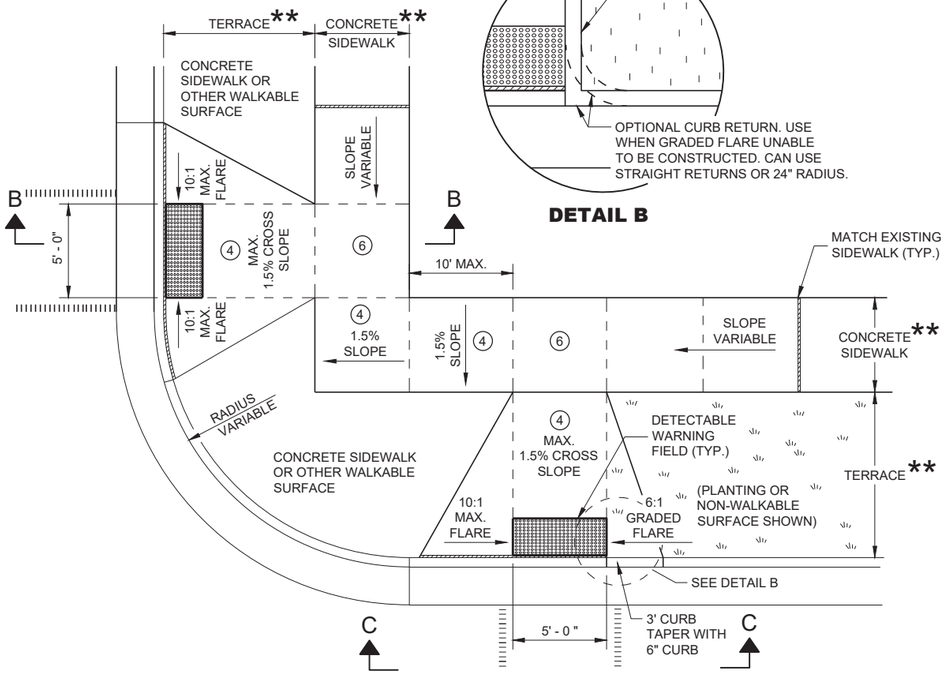
DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)



DETAIL B



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

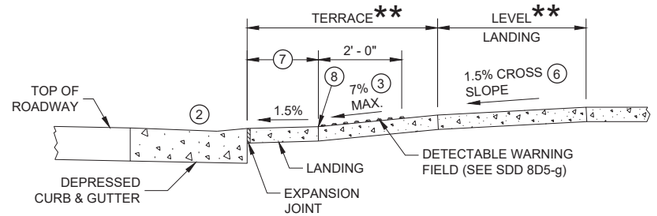
(4) ..... 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

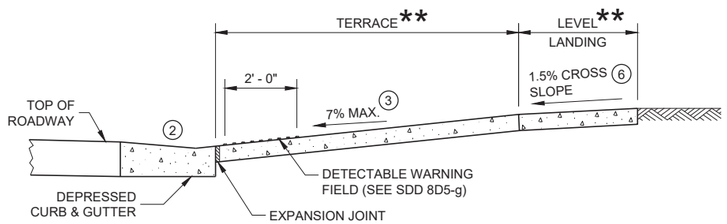
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

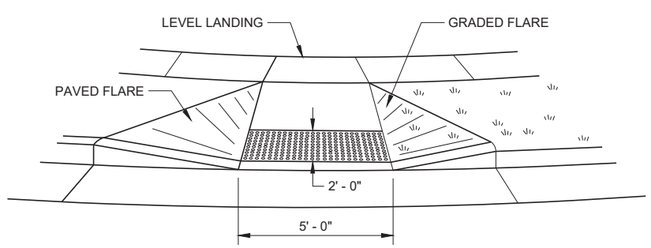
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



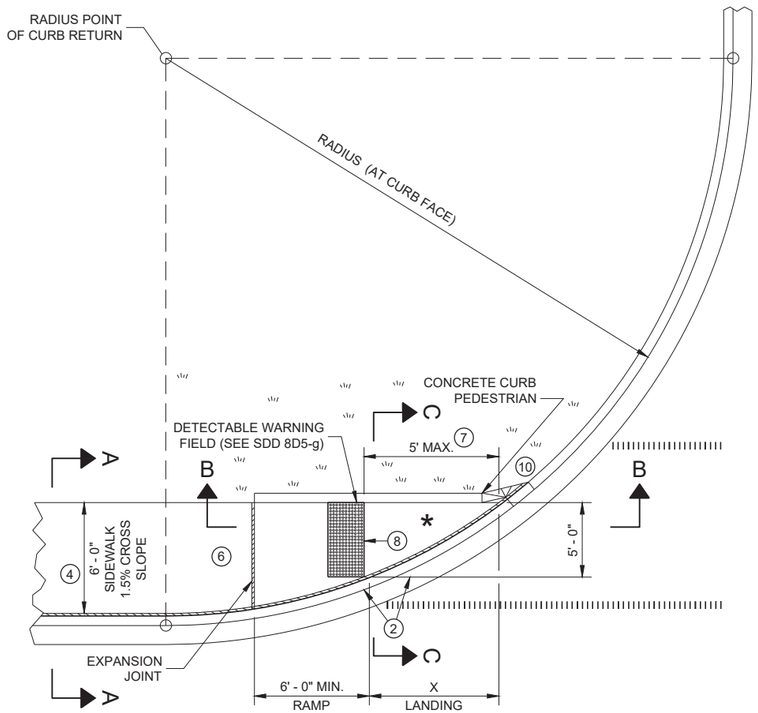
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

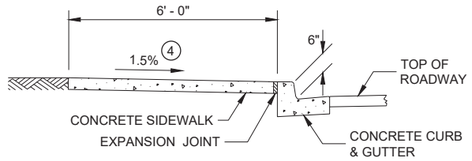


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) [illegible] PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

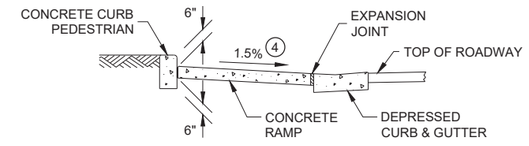
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

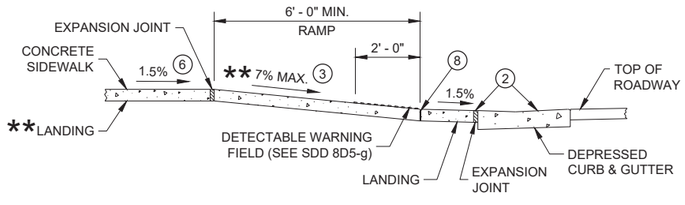
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)

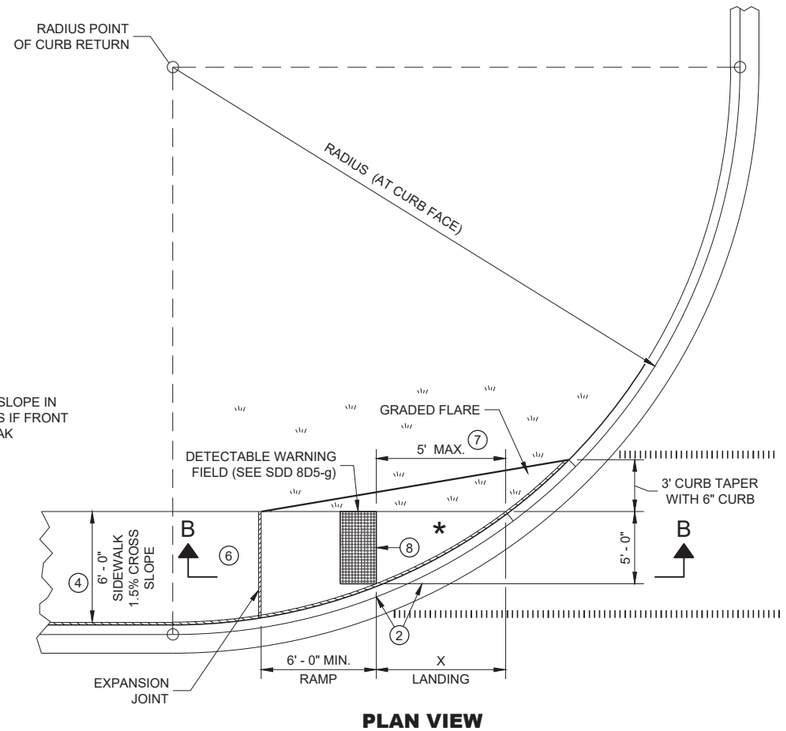


SECTION C - C FOR TYPE 4A



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

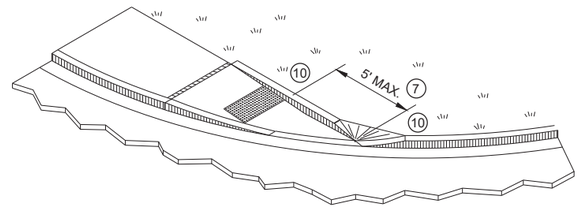
SECTION B - B FOR TYPE 4A AND TYPE 4A1



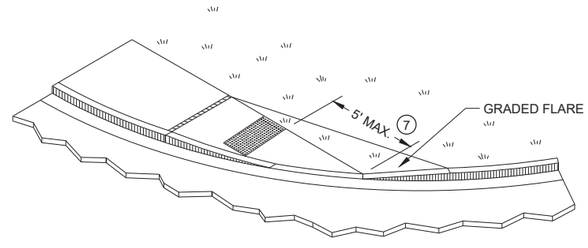
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



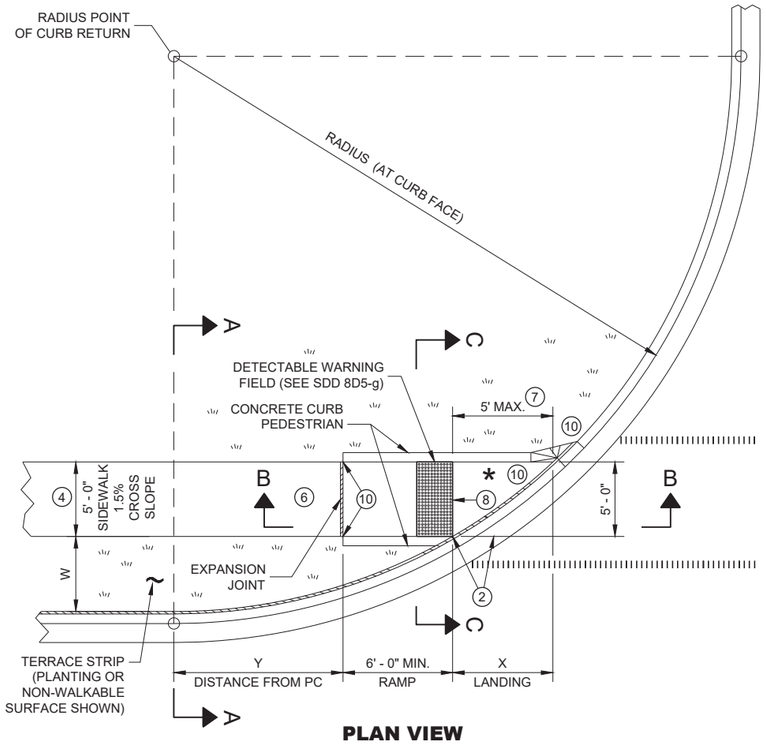
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c

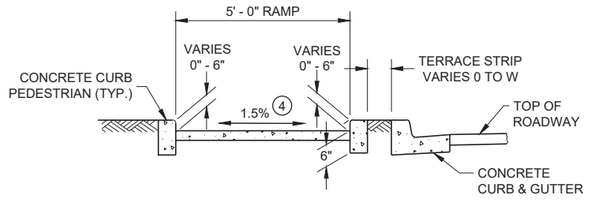


PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¼"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

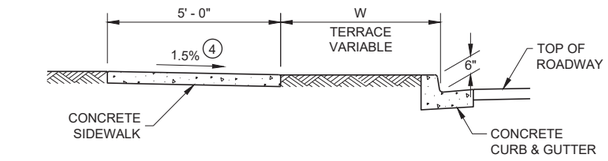
(4) PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

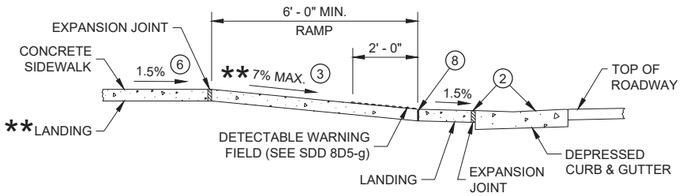
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



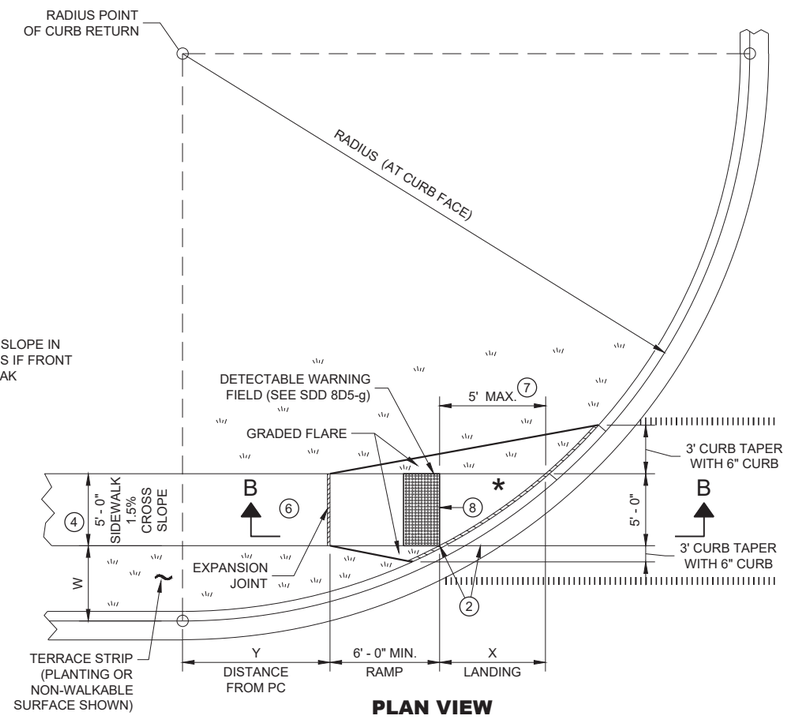
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

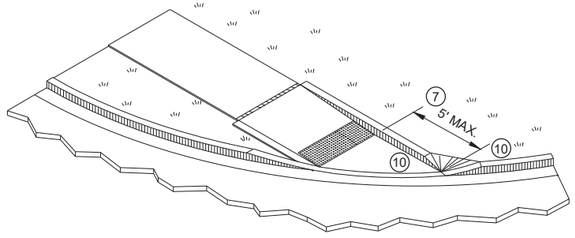
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

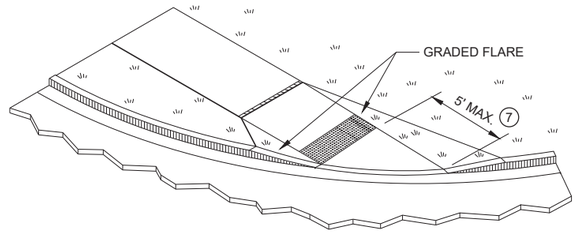


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
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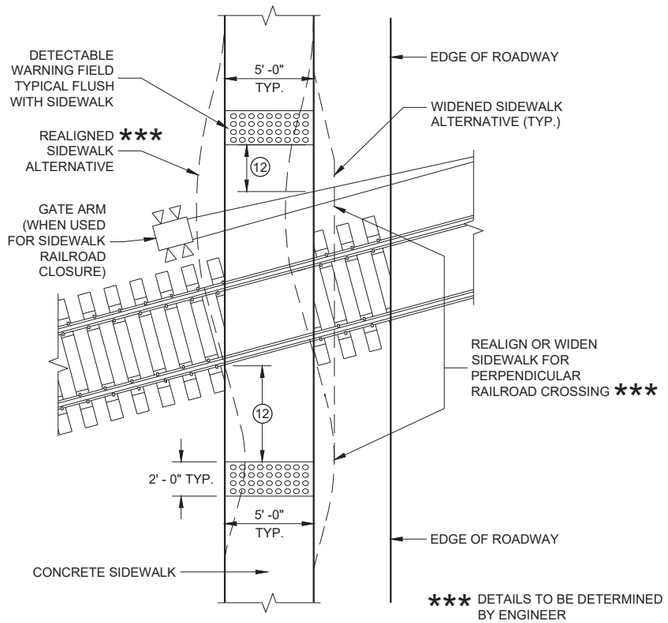
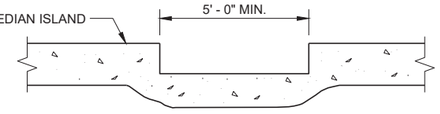
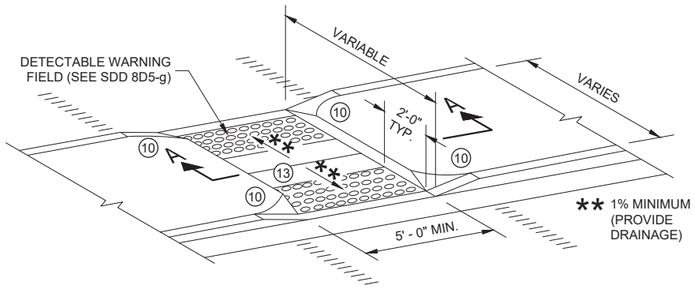


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

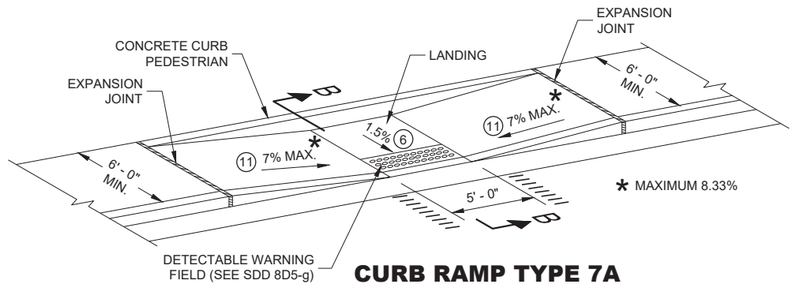
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

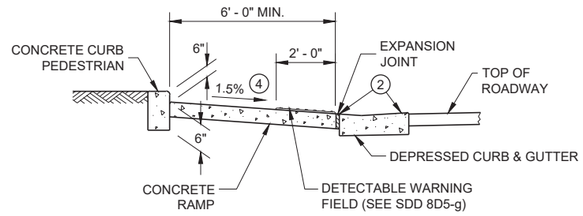
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

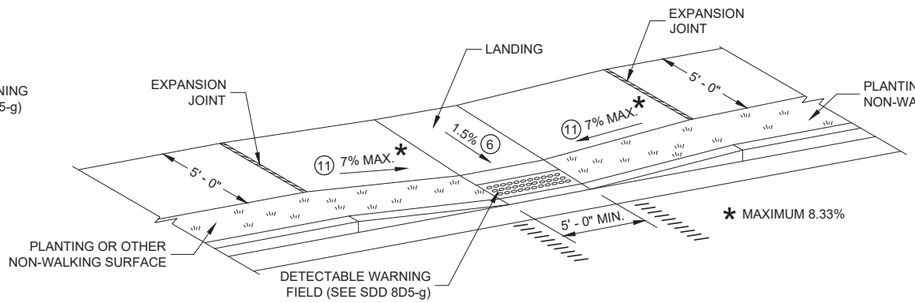


CURB RAMP TYPE 7A

MID BLOCK CROSSING



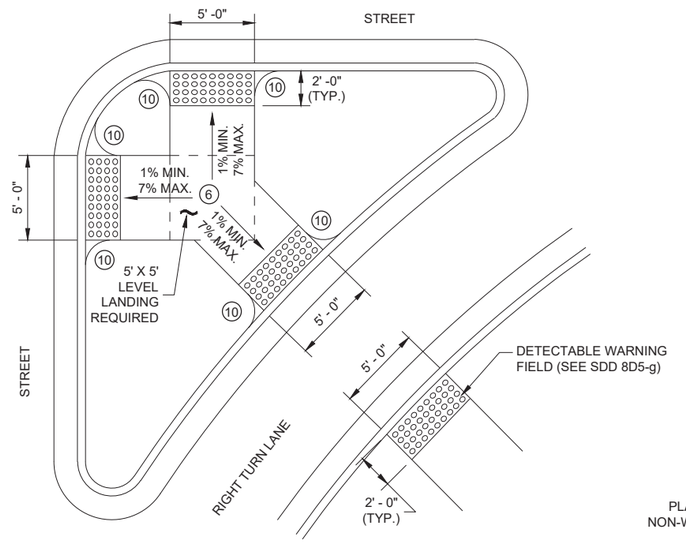
SECTION B - B FOR TYPE 7A



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

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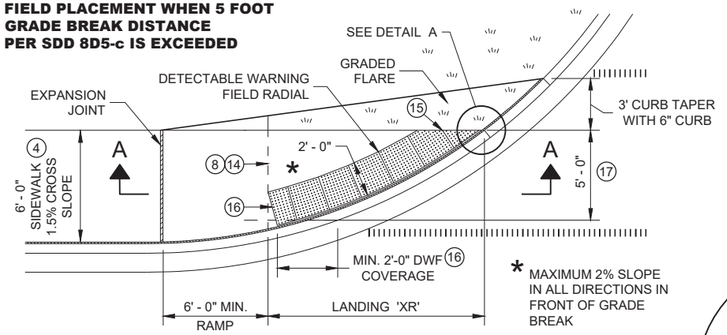
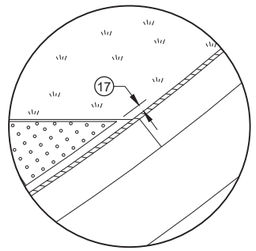
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



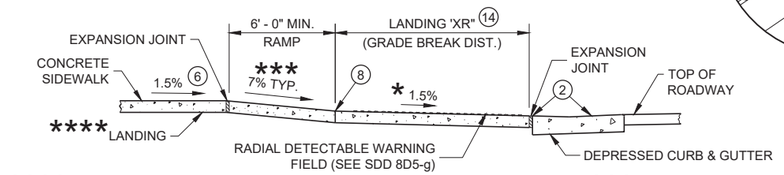
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) .....

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

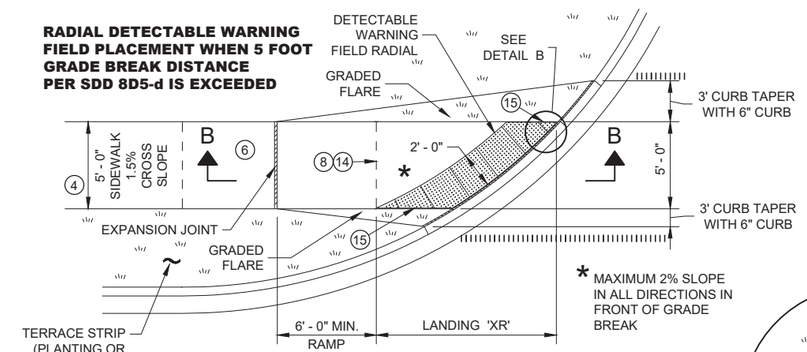
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

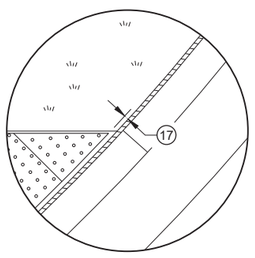
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



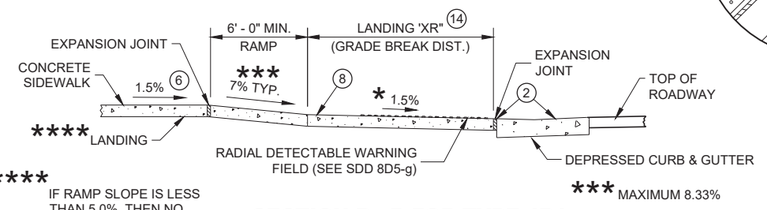
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

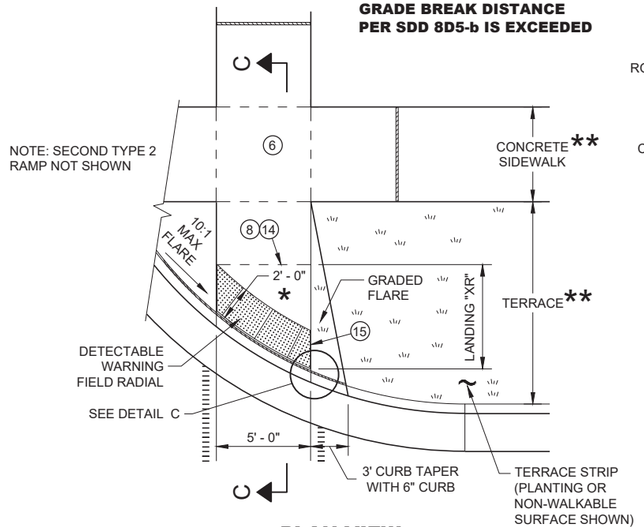


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

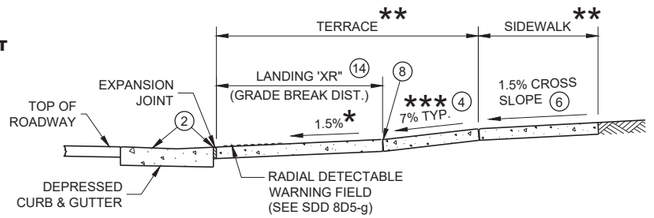


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

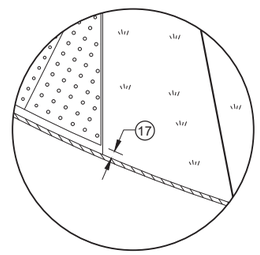


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

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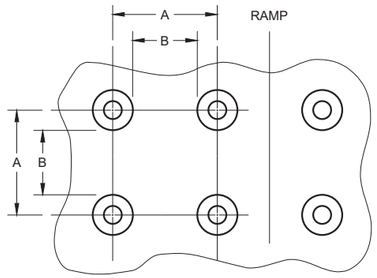
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

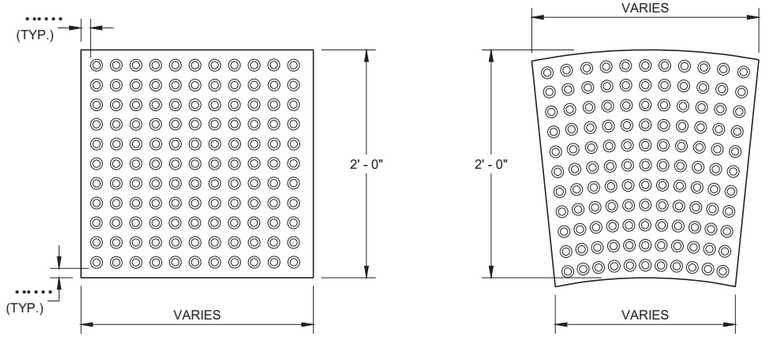
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW

ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

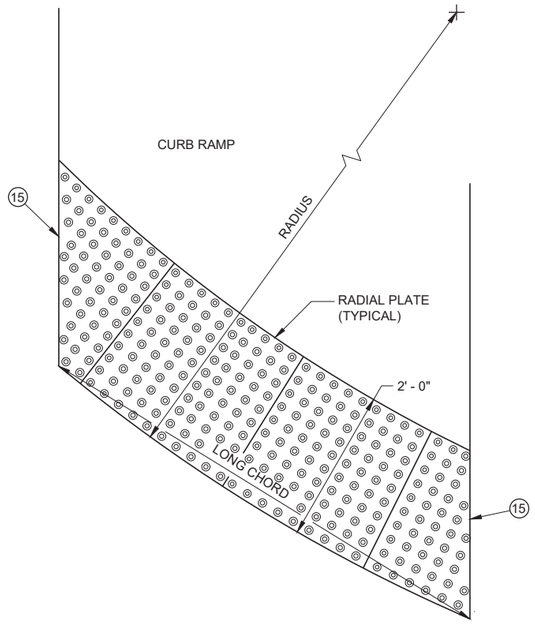
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

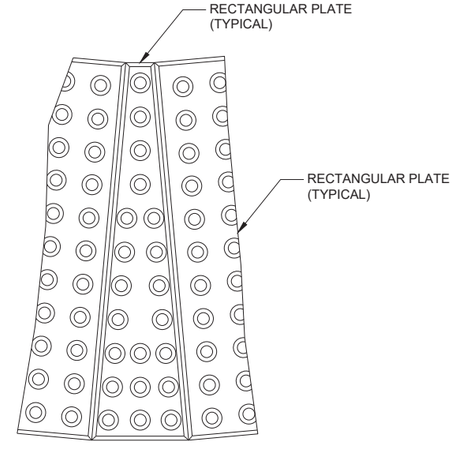
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

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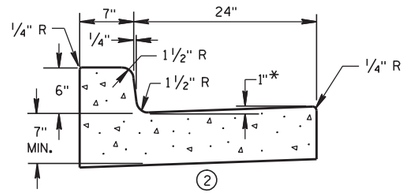
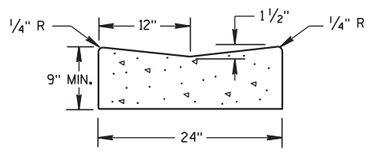
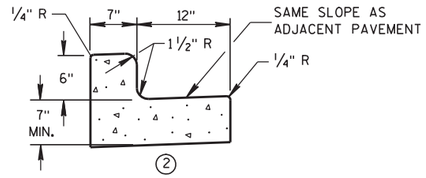


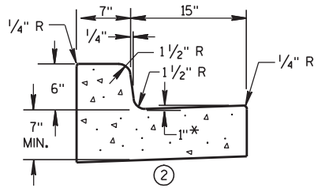
① CONCRETE CURB & GUTTER 31"



① CONCRETE GUTTER 24"

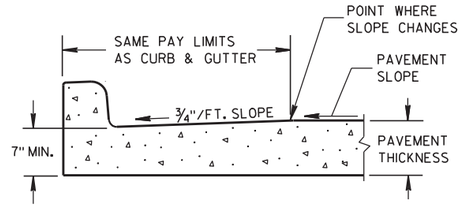


① CONCRETE CURB & GUTTER 19"



① CONCRETE CURB & GUTTER 22"

* TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

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.

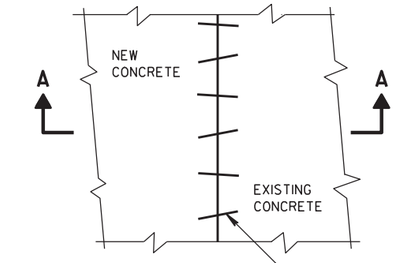
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURB.

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUIRED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MIMIMUM GUTTER THICKNESS IS MAINTAINED.

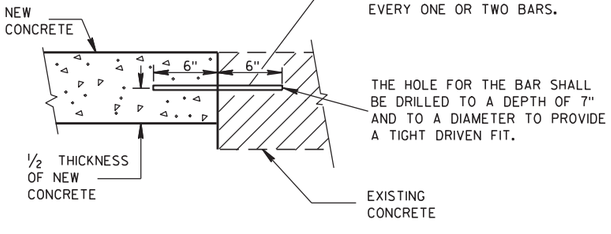
③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLAN.



PLAN VIEW

EXISTING AND NEW CONCRETE MAY BE CURB & GUTTER, SURFACE DRAIN, PAVEMENT OR OTHER CONCRETE STRUCTURE.

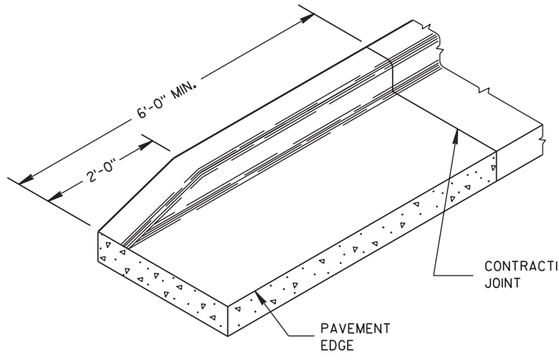
NO. 6 X 12" DEF. BARS SPACED 3'-0" C-C, INSTALLED ON 6:1 SKEW HORIZONTALLY. DIRECTION OF SKEW ALTERNATING AFTER EVERY ONE OR TWO BARS.



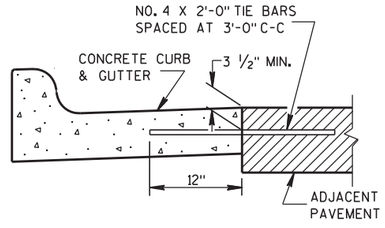
THE HOLE FOR THE BAR SHALL BE DRILLED TO A DEPTH OF 7" AND TO A DIAMETER TO PROVIDE A TIGHT DRIVEN FIT.

SECTION A-A

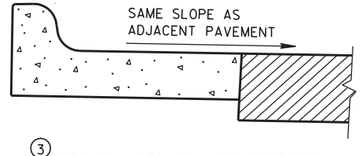
PAVEMENT TIES



END SECTION CURB & GUTTER



① TYPICAL TIE BAR LOCATION



③ HIGH SIDE SECTION

(TYPICAL FOR ALL CURB & GUTTER)

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional Use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/2/2010 — DATE

/S/ Jerry Zoon — ROADWAY STANDARDS ENGINEER

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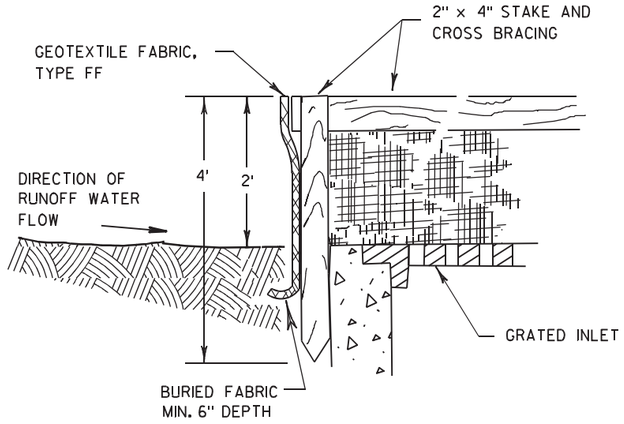
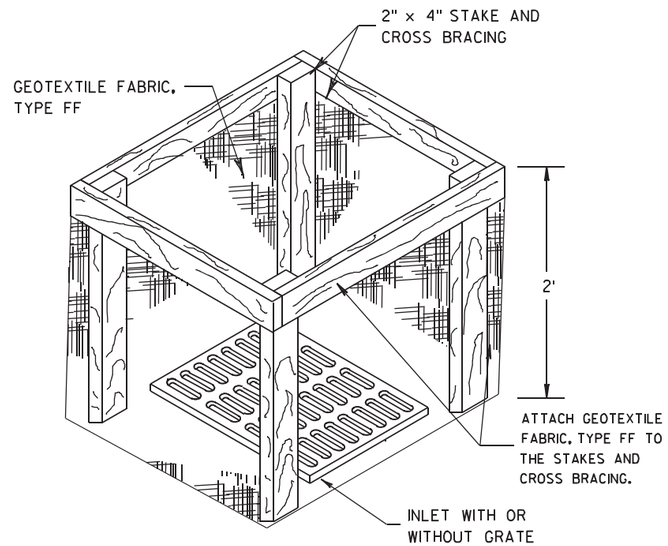
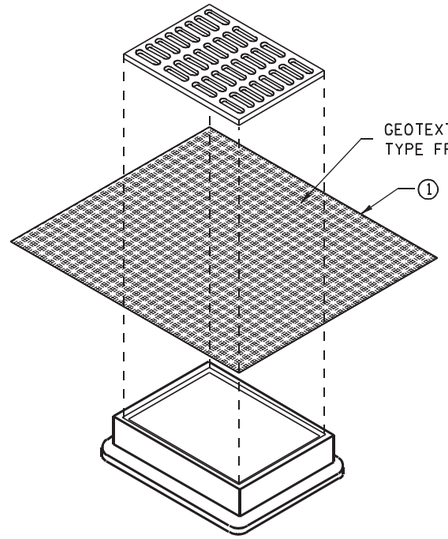


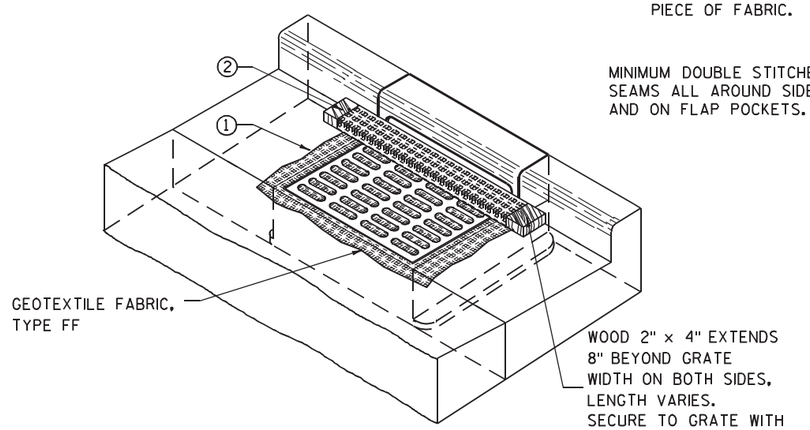


INLET PROTECTION, TYPE A

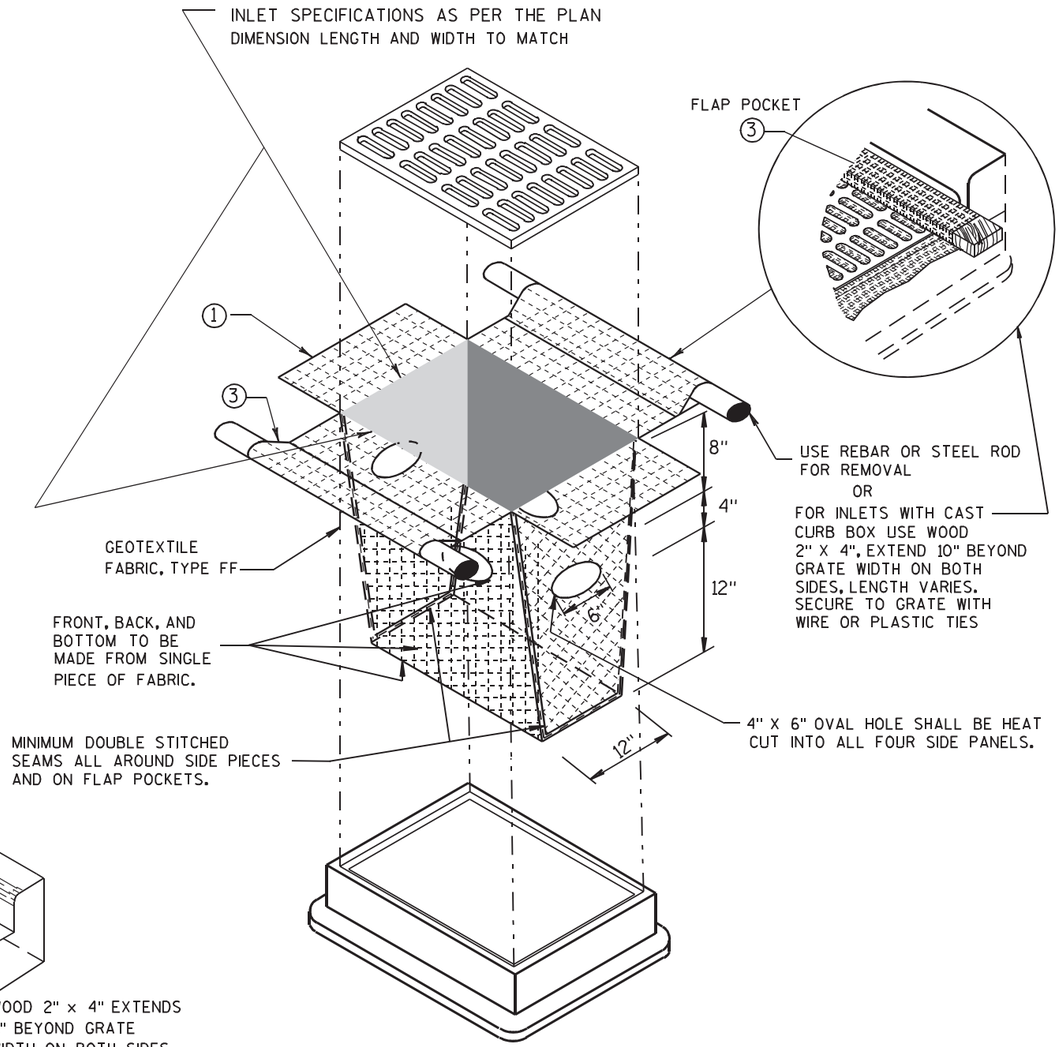


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

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.

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 A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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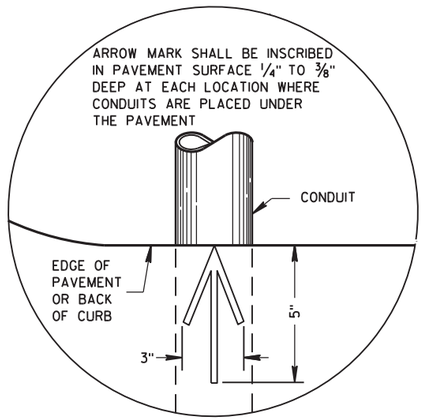
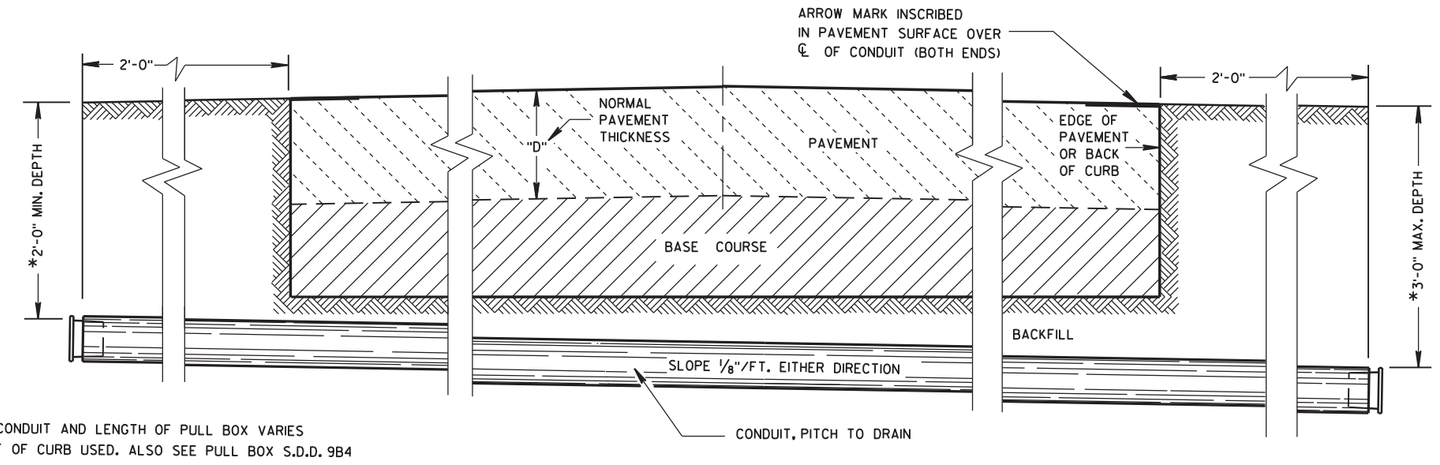


PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 296
FHWA

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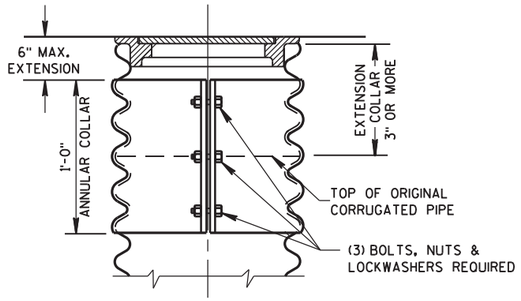
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

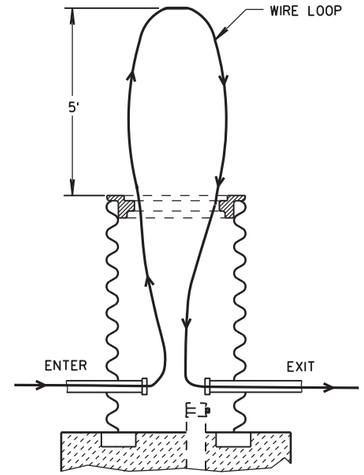
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

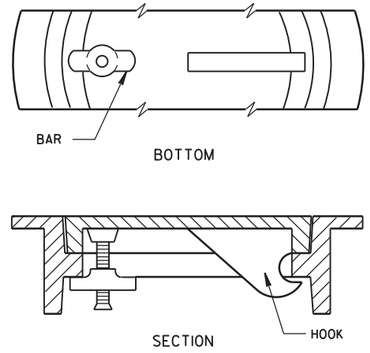
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

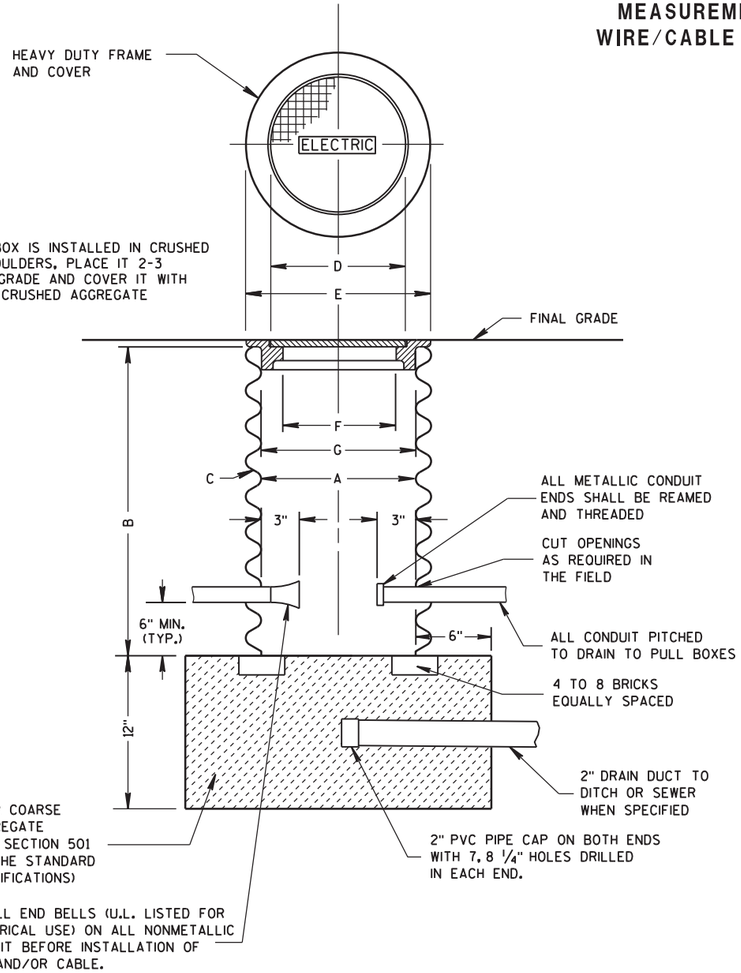


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

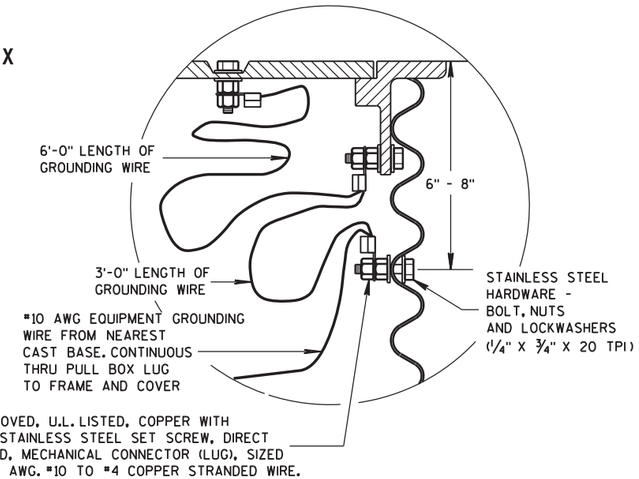


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

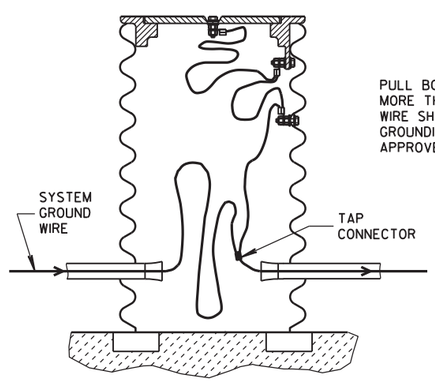
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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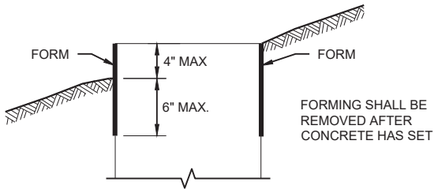
S.D.D. 9 B 4-11

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL BENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

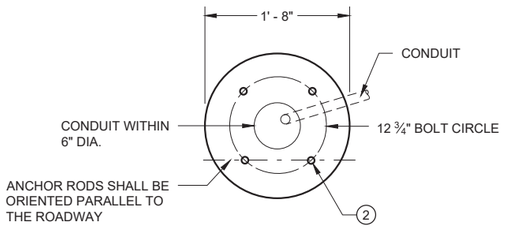
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

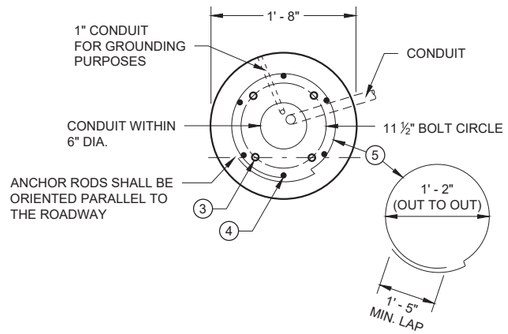
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

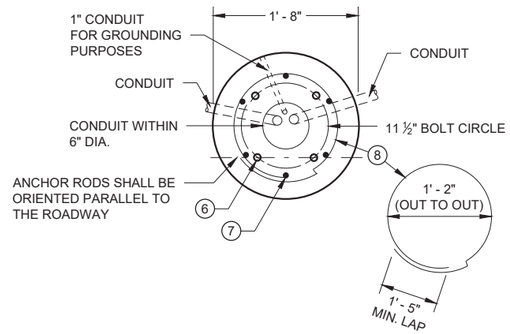
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

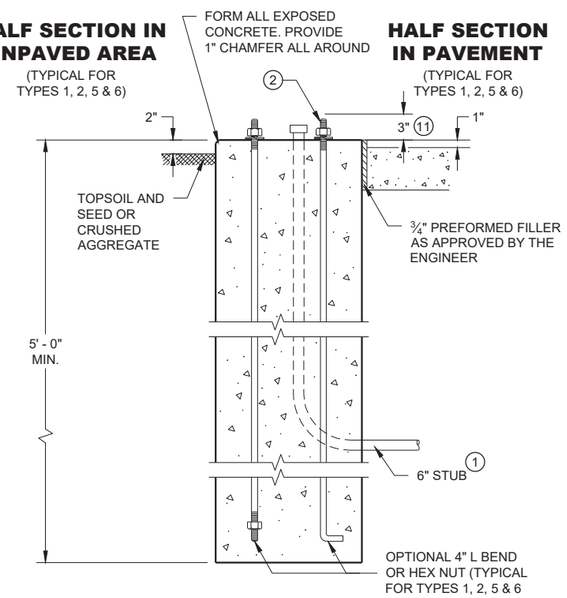
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

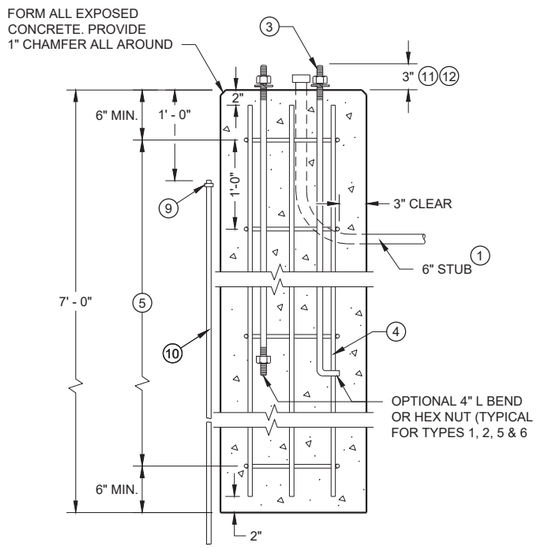
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ... USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

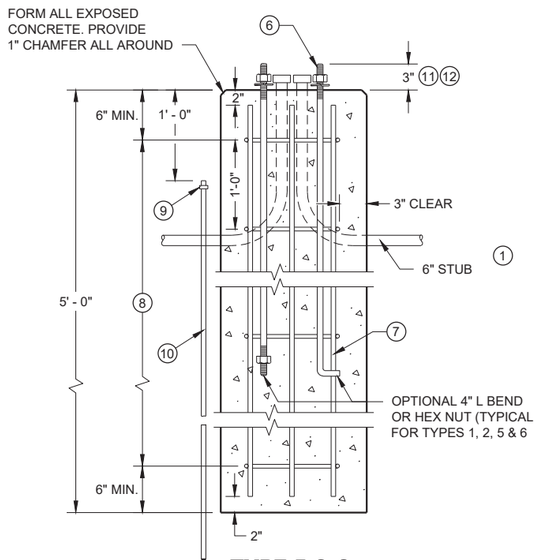
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 298

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

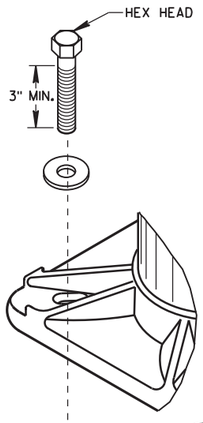
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

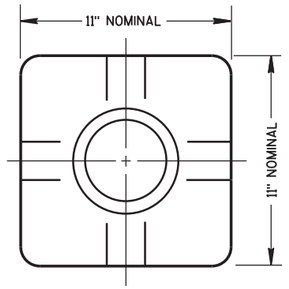
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

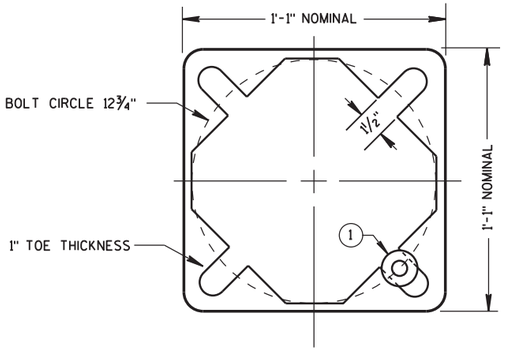
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

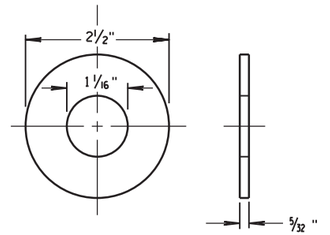




TOP VIEW
(PEDESTAL BASE)

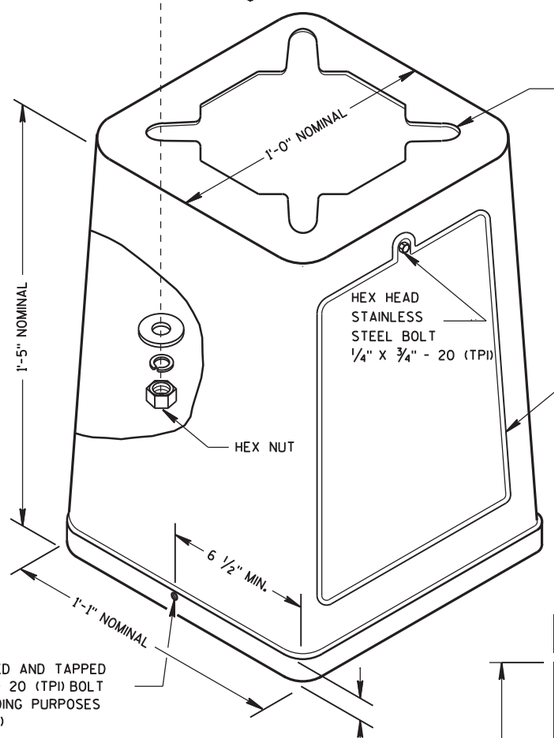


BOTTOM VIEW
(PEDESTAL BASE)

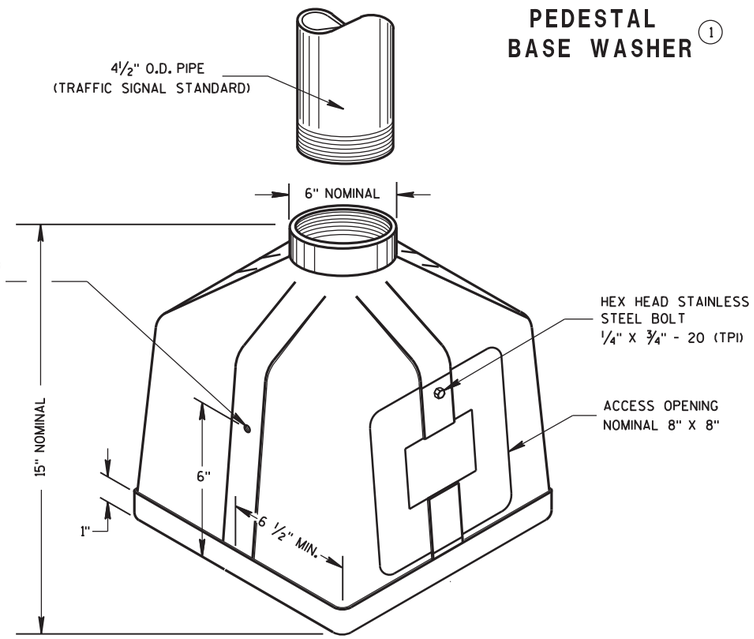


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

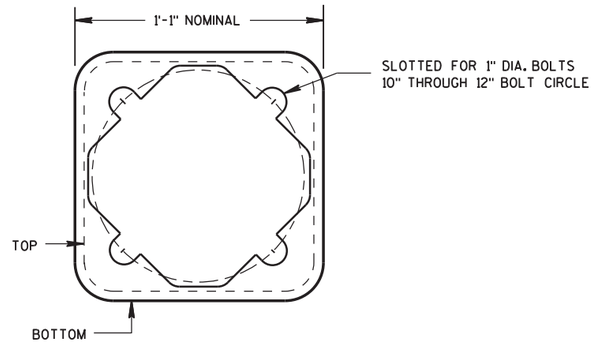


ISOMETRIC VIEW

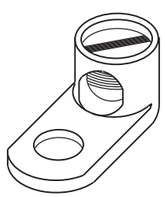


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

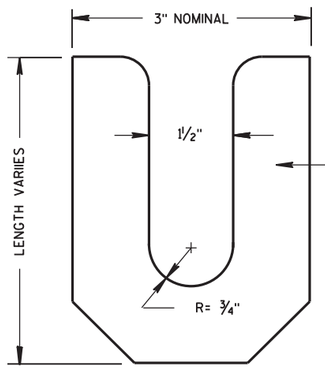


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
299
FHWA

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S.D.D. 9 C 3-4

6

S.D.D. 9 C 3-4

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

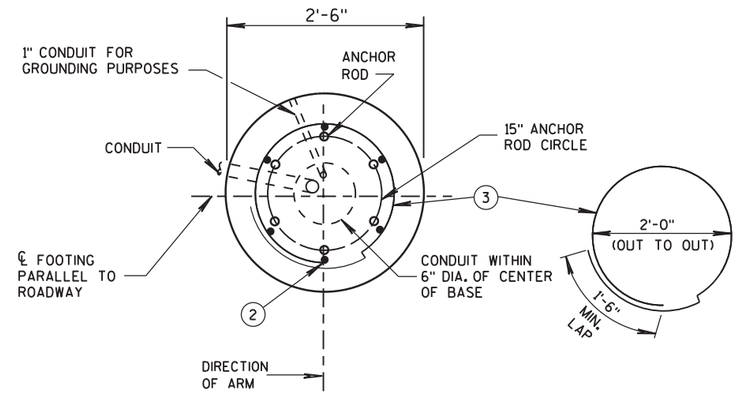
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

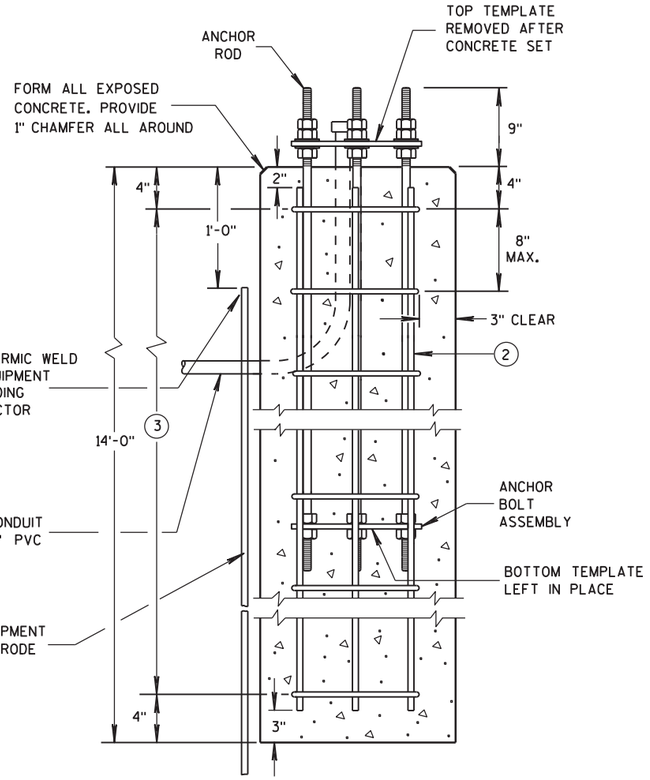
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES. (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

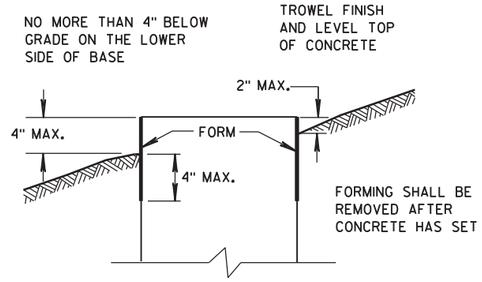
CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.



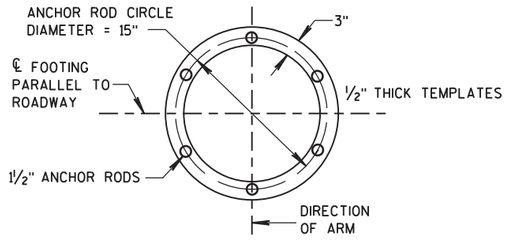


CONCRETE BASE TYPE 10
(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

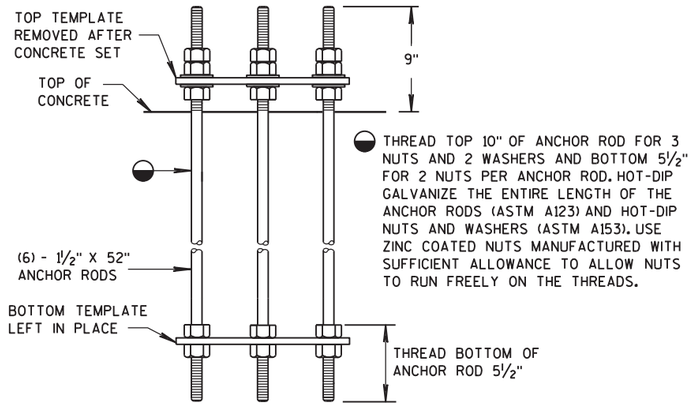
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 300
FHWA

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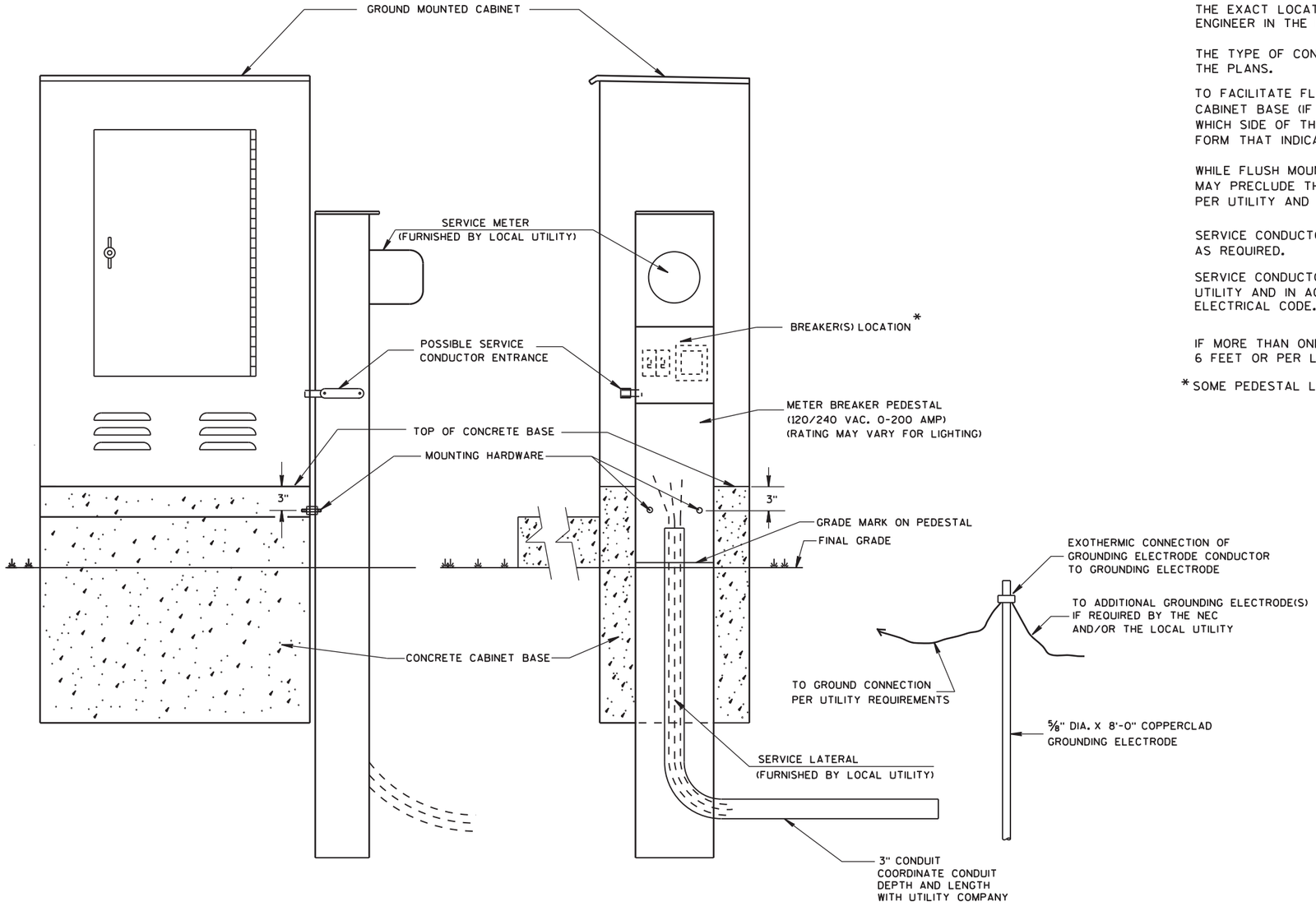
S.D.D. 9 C 11-10



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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S.D.D. 9 D 1-5

CABINET SERVICE INSTALLATION
(METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

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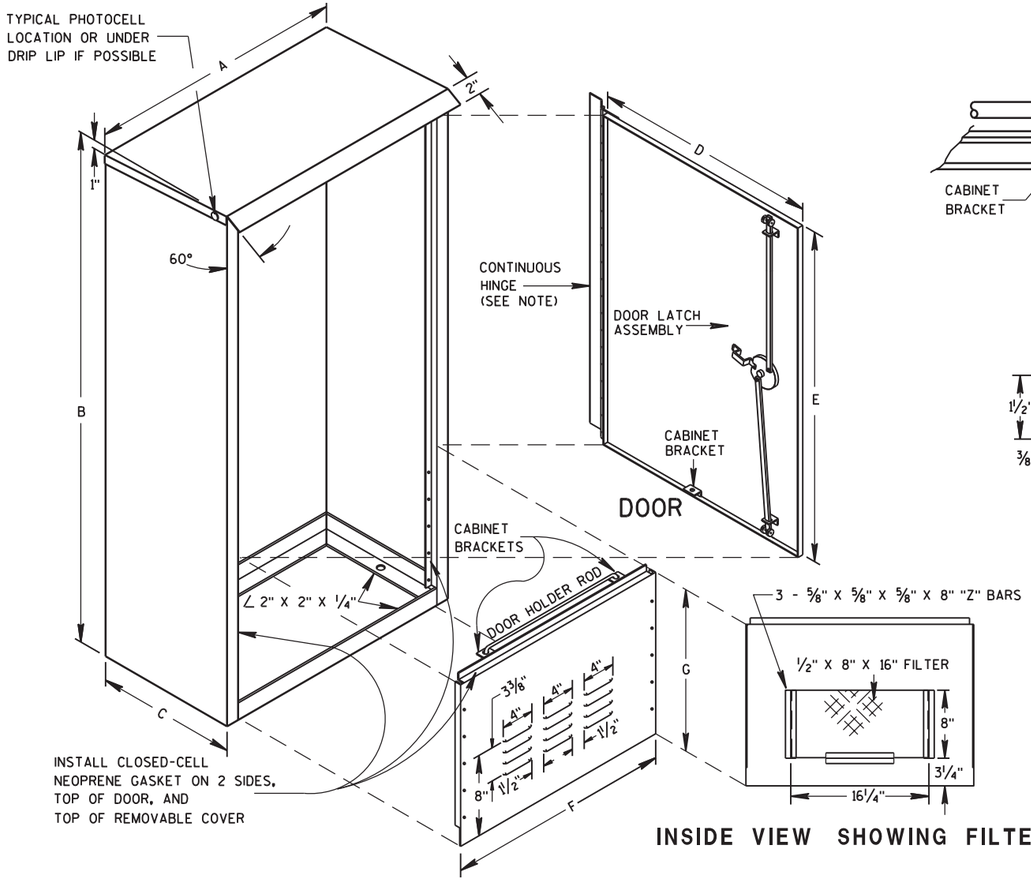
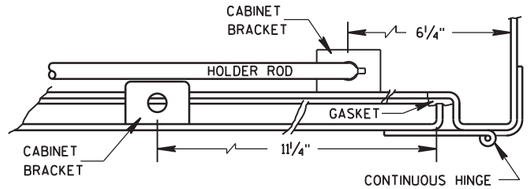
S.D.D. 9 D 1-5

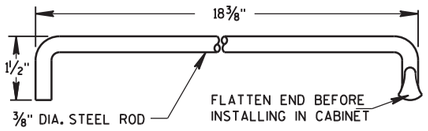


REMOVABLE COVER

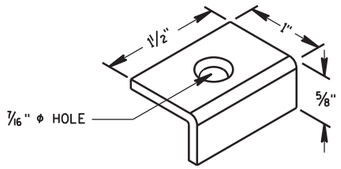
INSIDE VIEW SHOWING FILTER



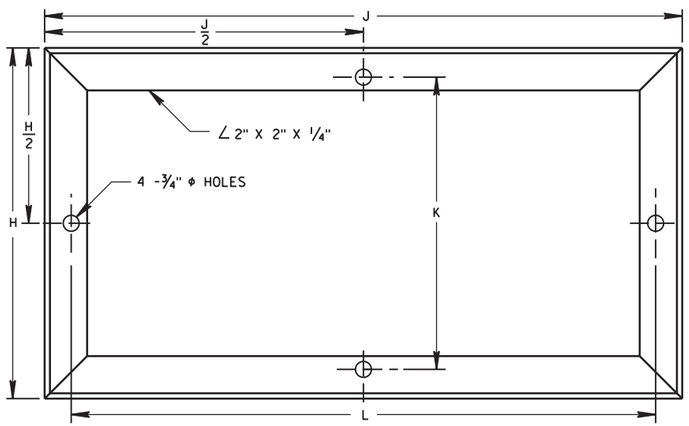
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

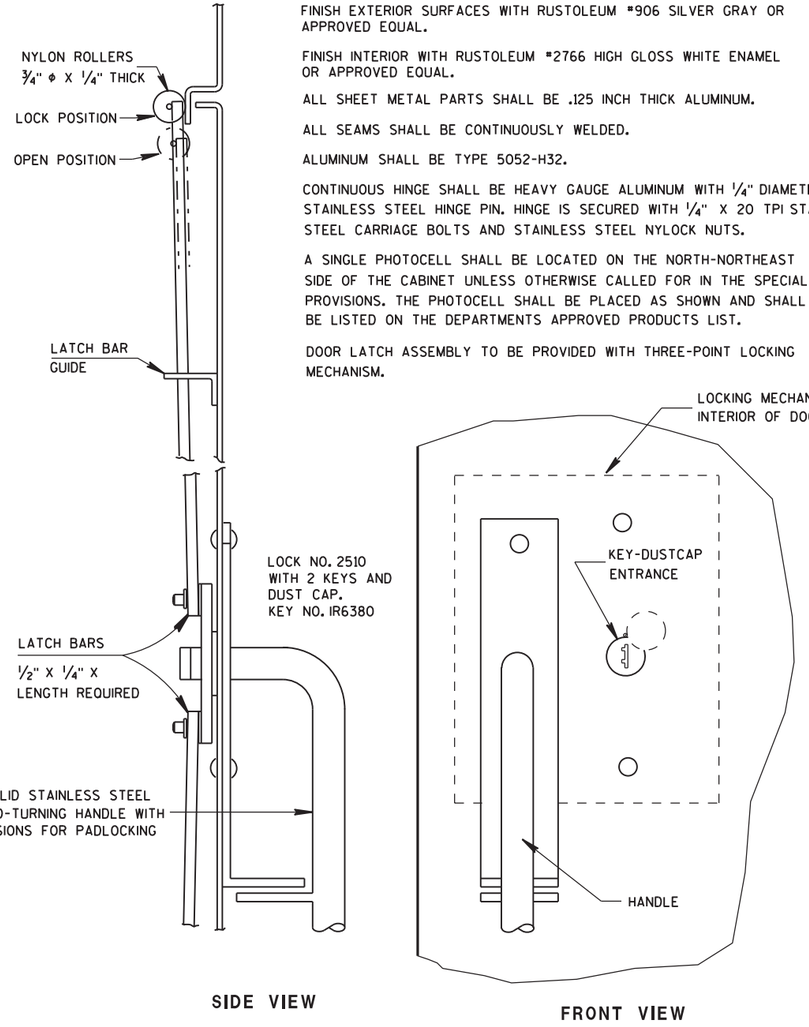
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

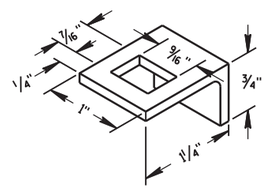
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



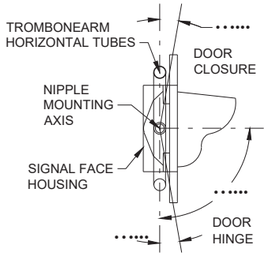
LATCH BAR GUIDE

SIGNAL CONTROL CABINET

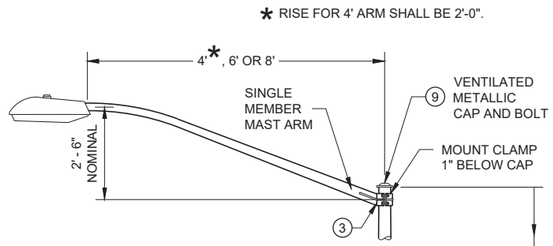
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

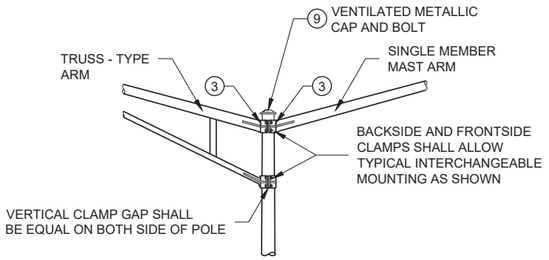
APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 302
FHWA

6
S.D.D. 9 D 2-3

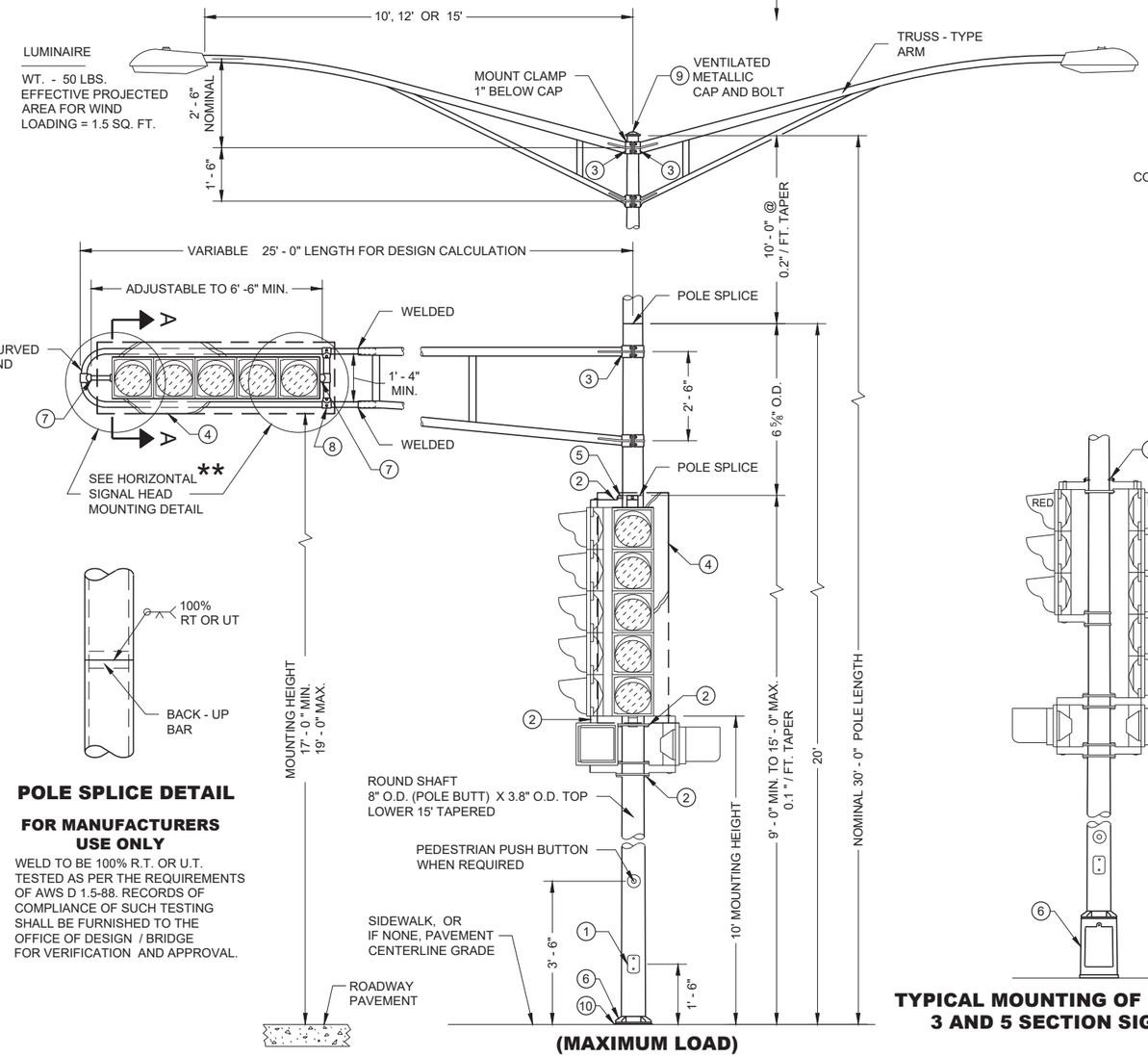


SECTION A-A

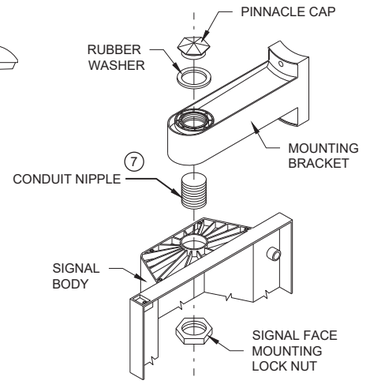




INTERCHANGEABLE MOUNTING DETAIL



(MAXIMUM LOAD)

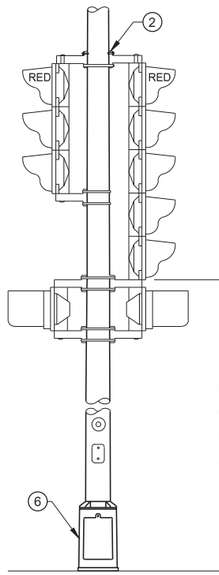


SIGNAL FACE MOUNTING DETAIL
(BANDED)

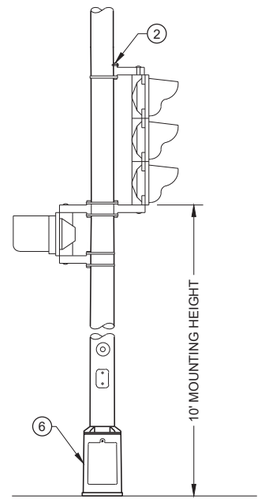
POLE SPLICE DETAIL

FOR MANUFACTURERS USE ONLY

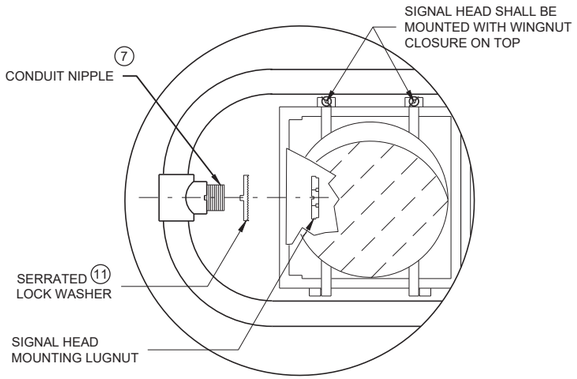
WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3/8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3/8" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

TYPE 3 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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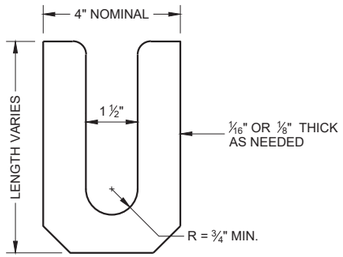
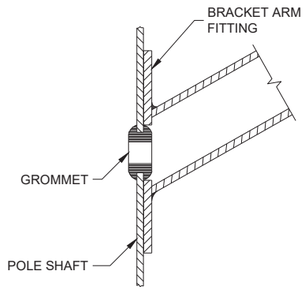
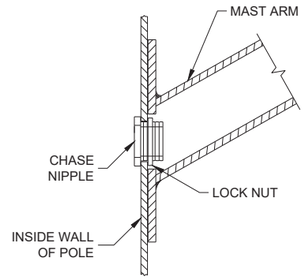


LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

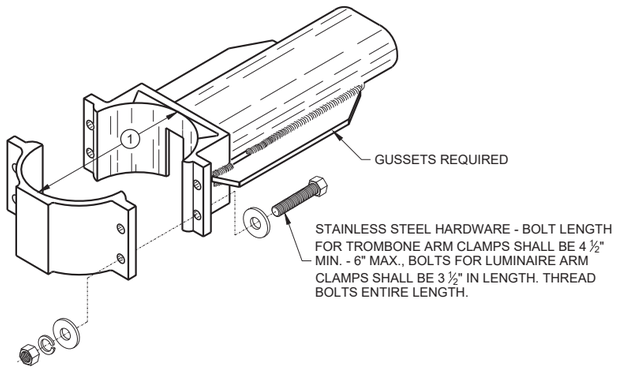
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

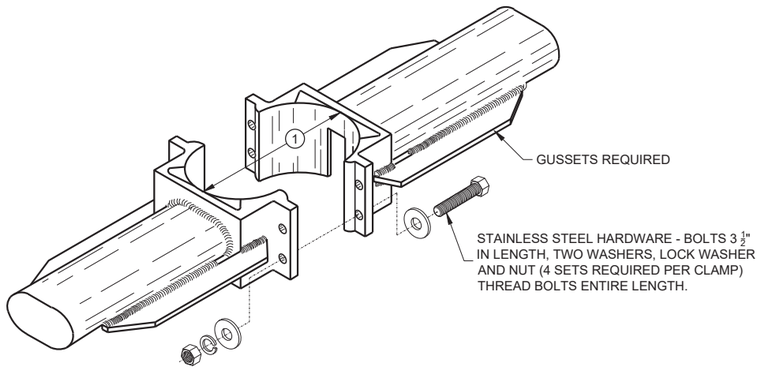
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

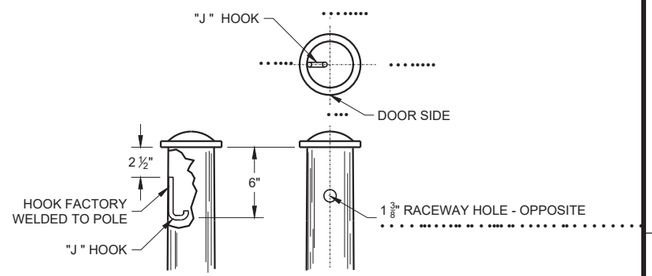
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



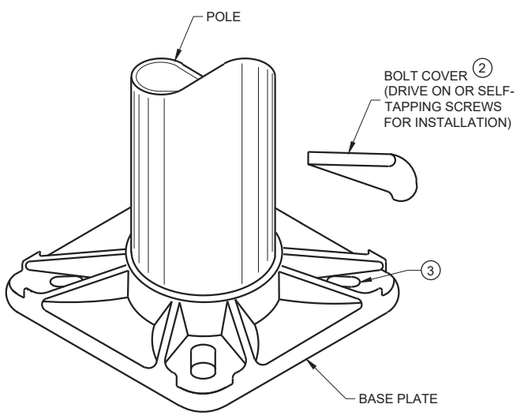
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



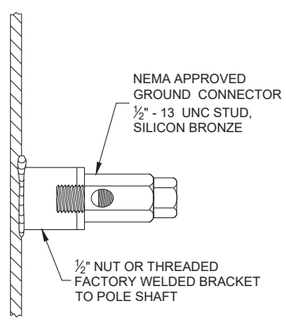
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

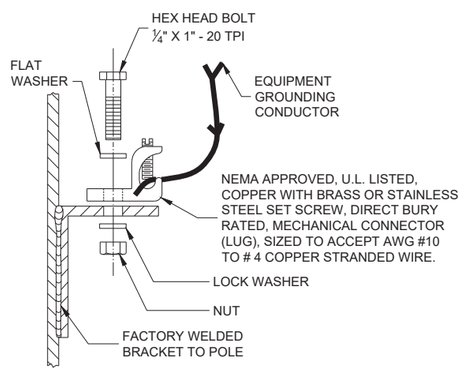


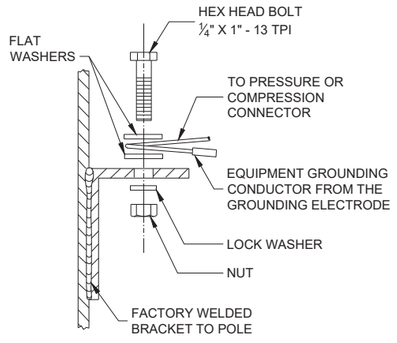
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 304

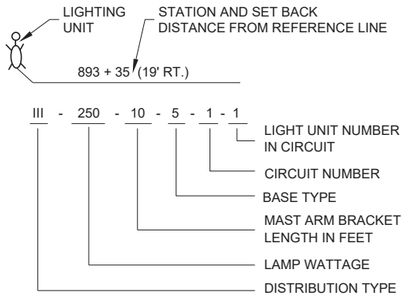
FHWA

GENERAL NOTES

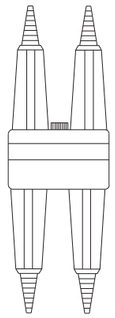
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

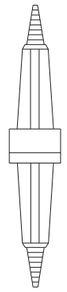
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



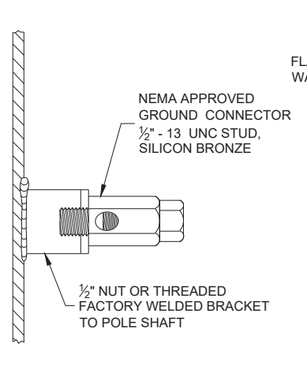
LIGHTING UNIT CODE
(TYPICAL)



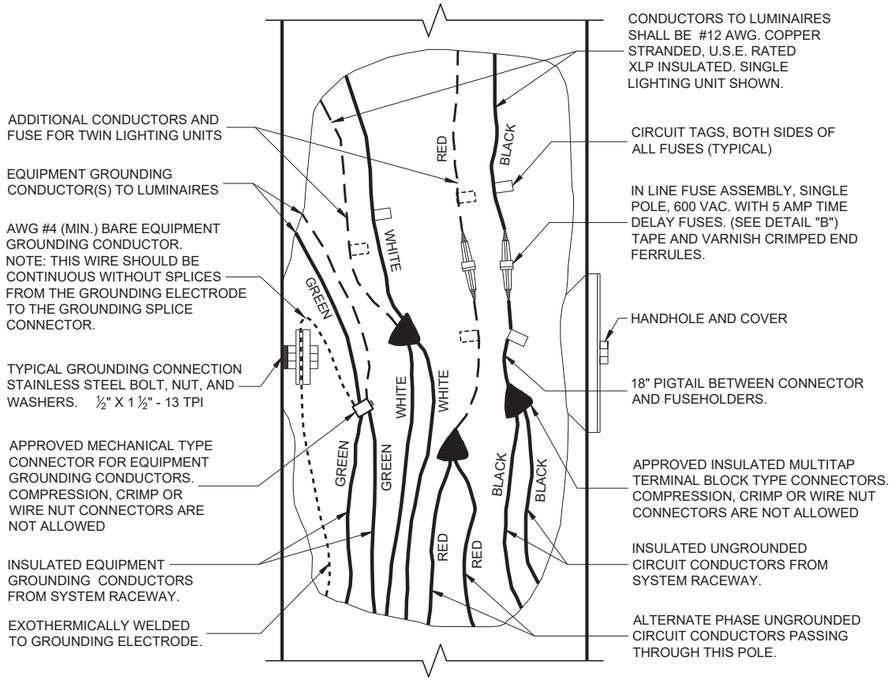
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



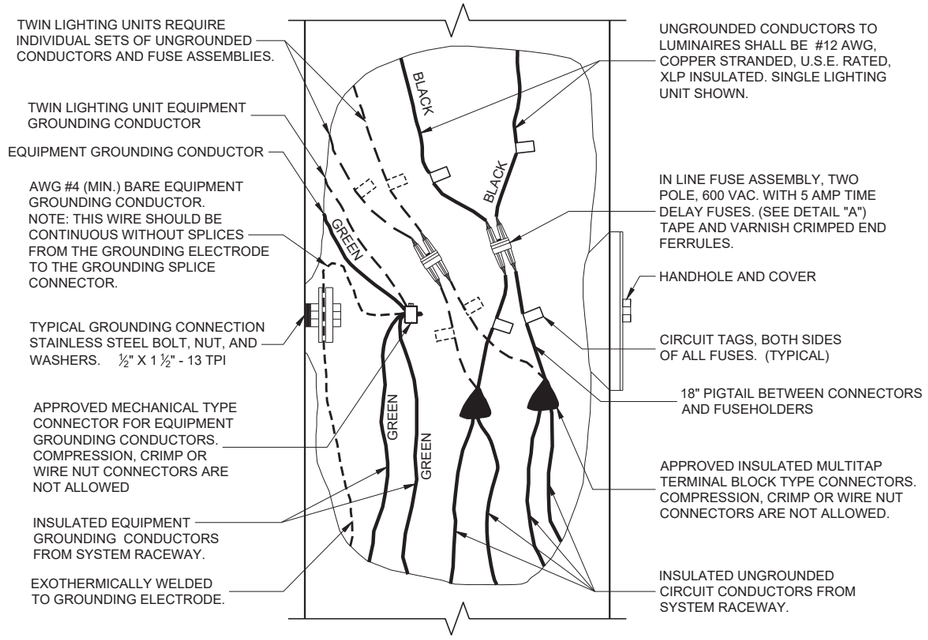
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 305

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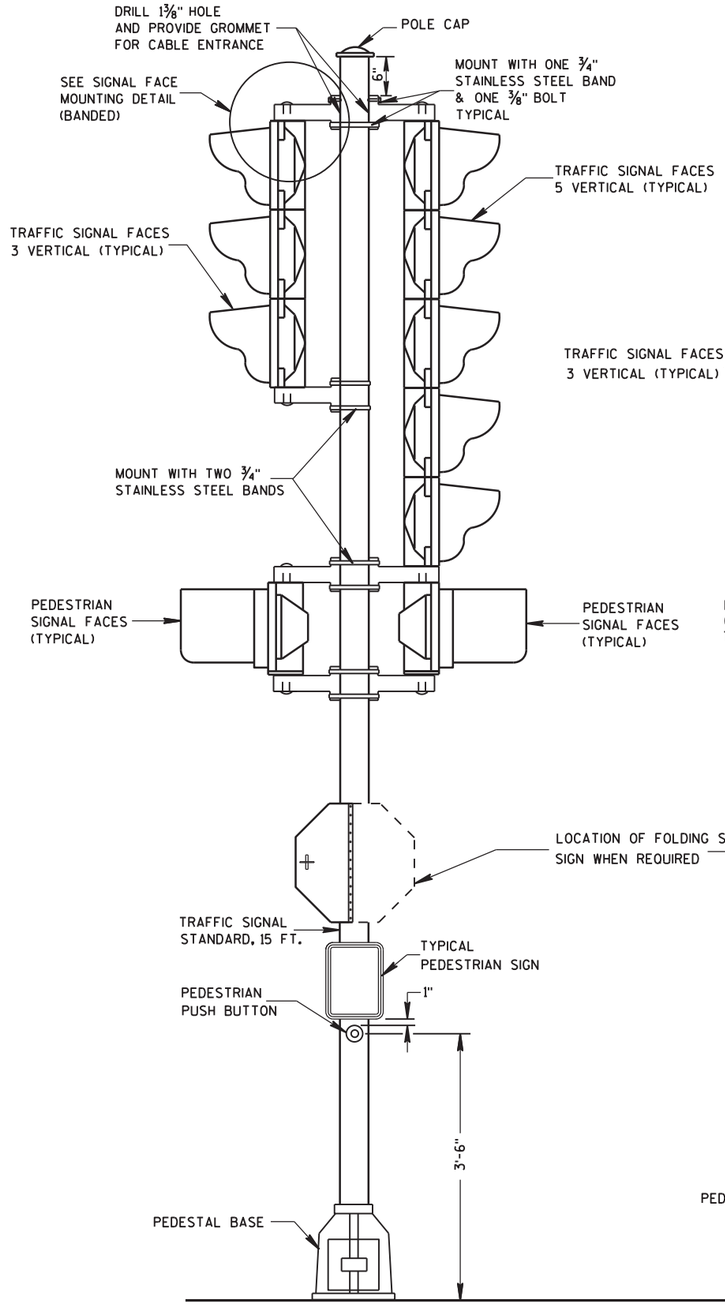
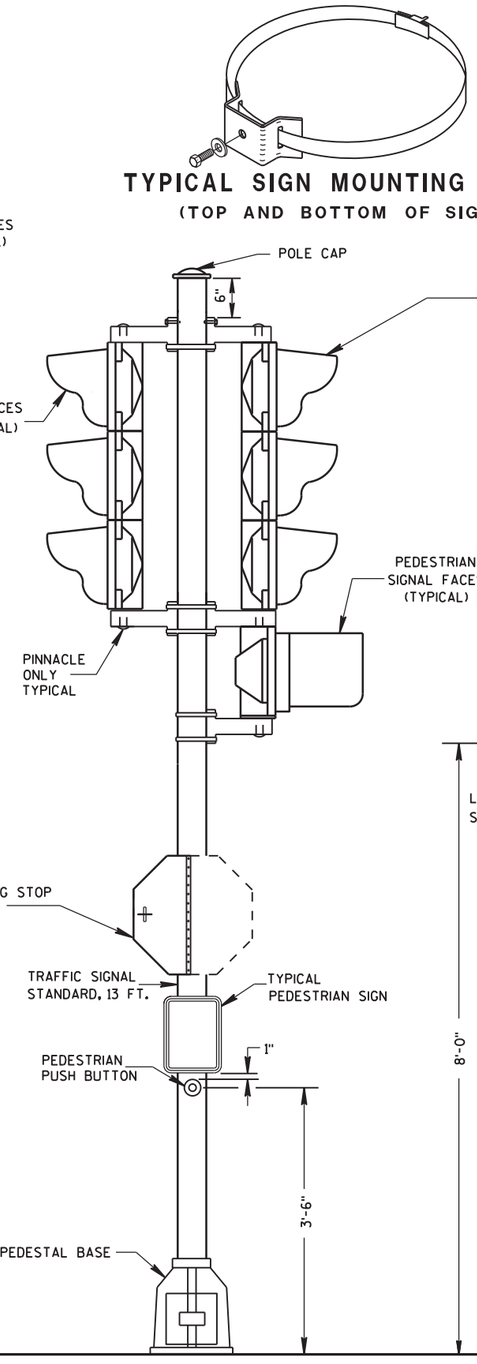
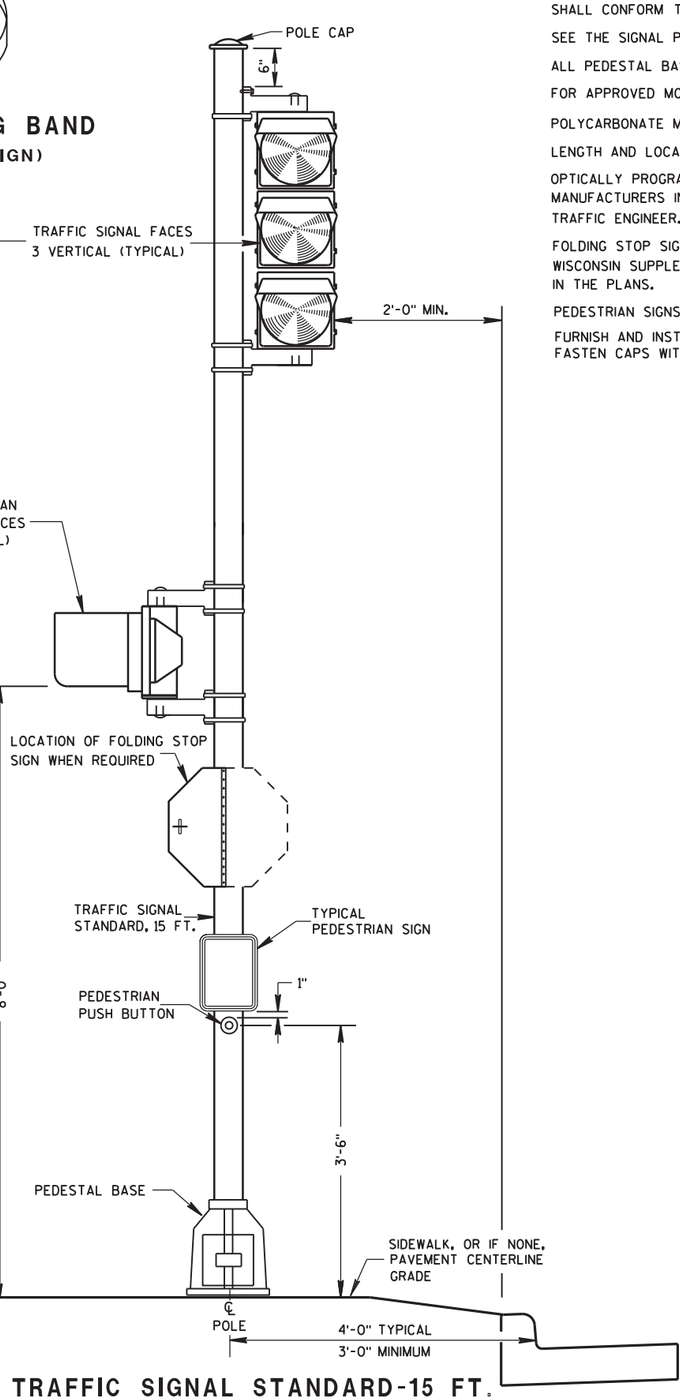


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

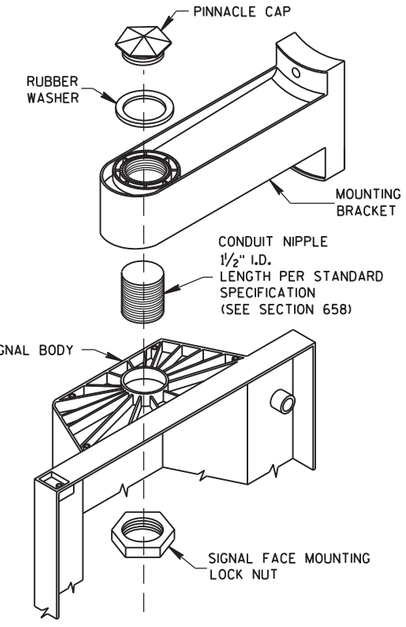
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL 306

FHWA

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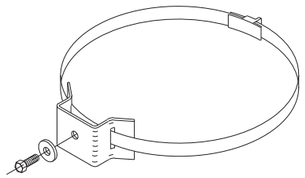
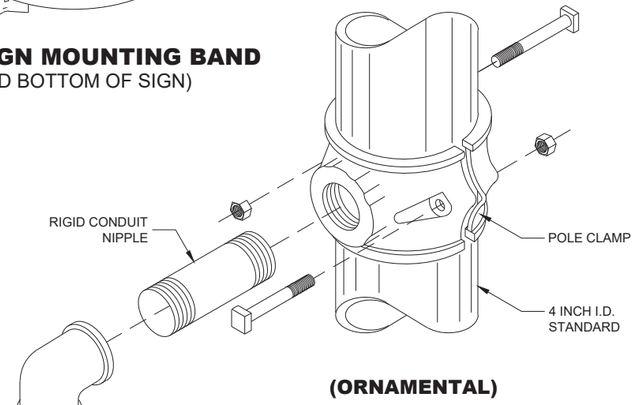
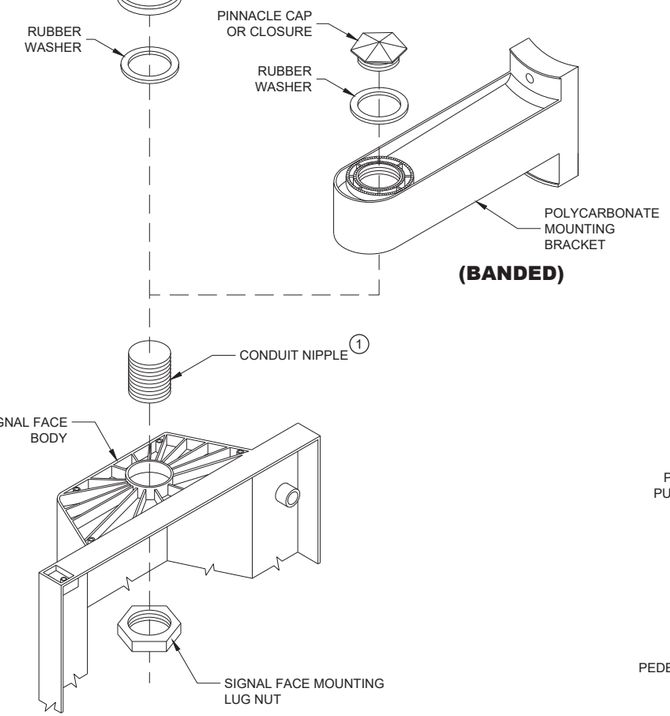


TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)

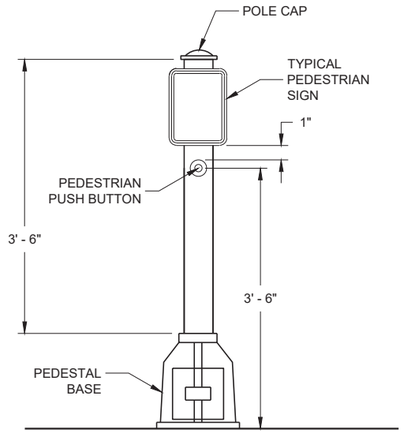


(ORNAMENTAL)



(BANDED)

SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON
TYPICAL MOUNTING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

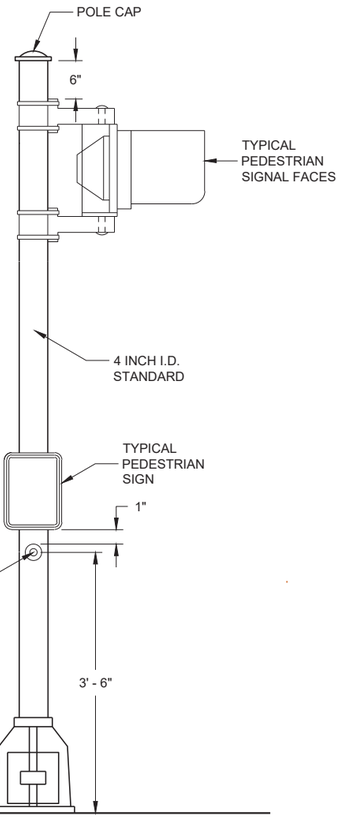
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

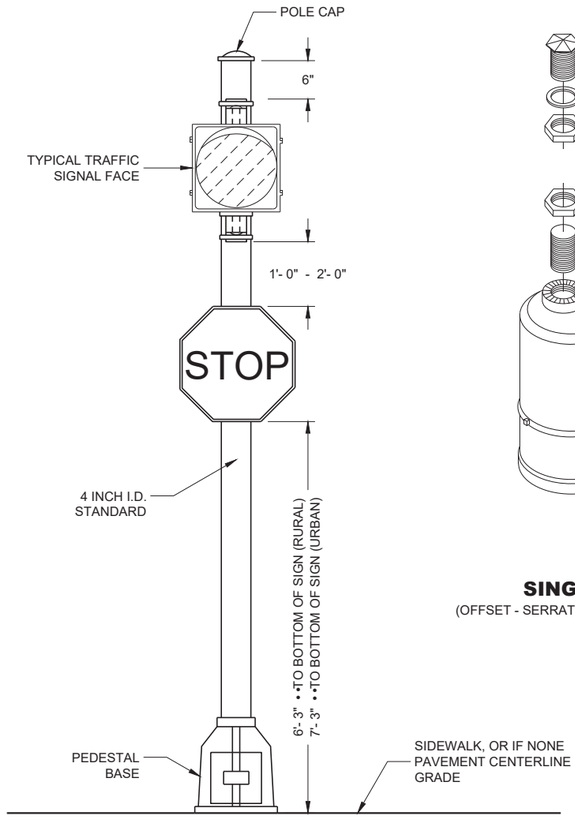
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

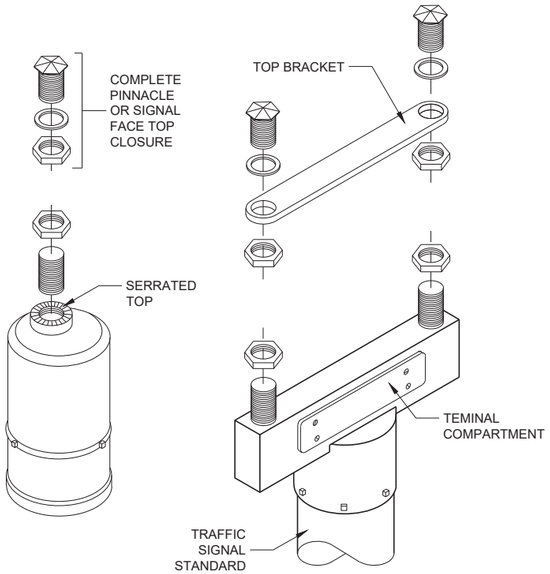
(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD
PEDESTRIAN AND FLASHER
TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 307

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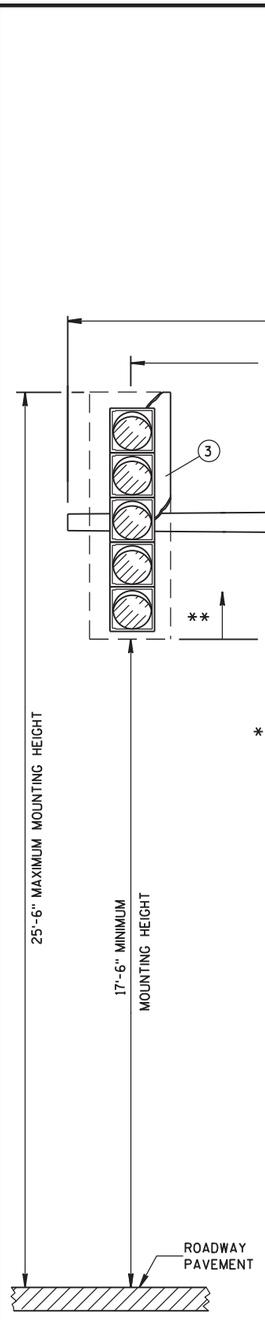
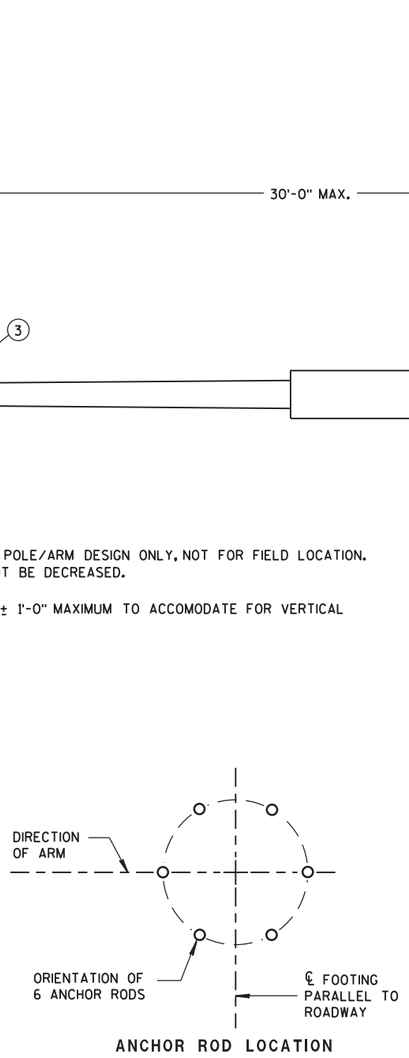
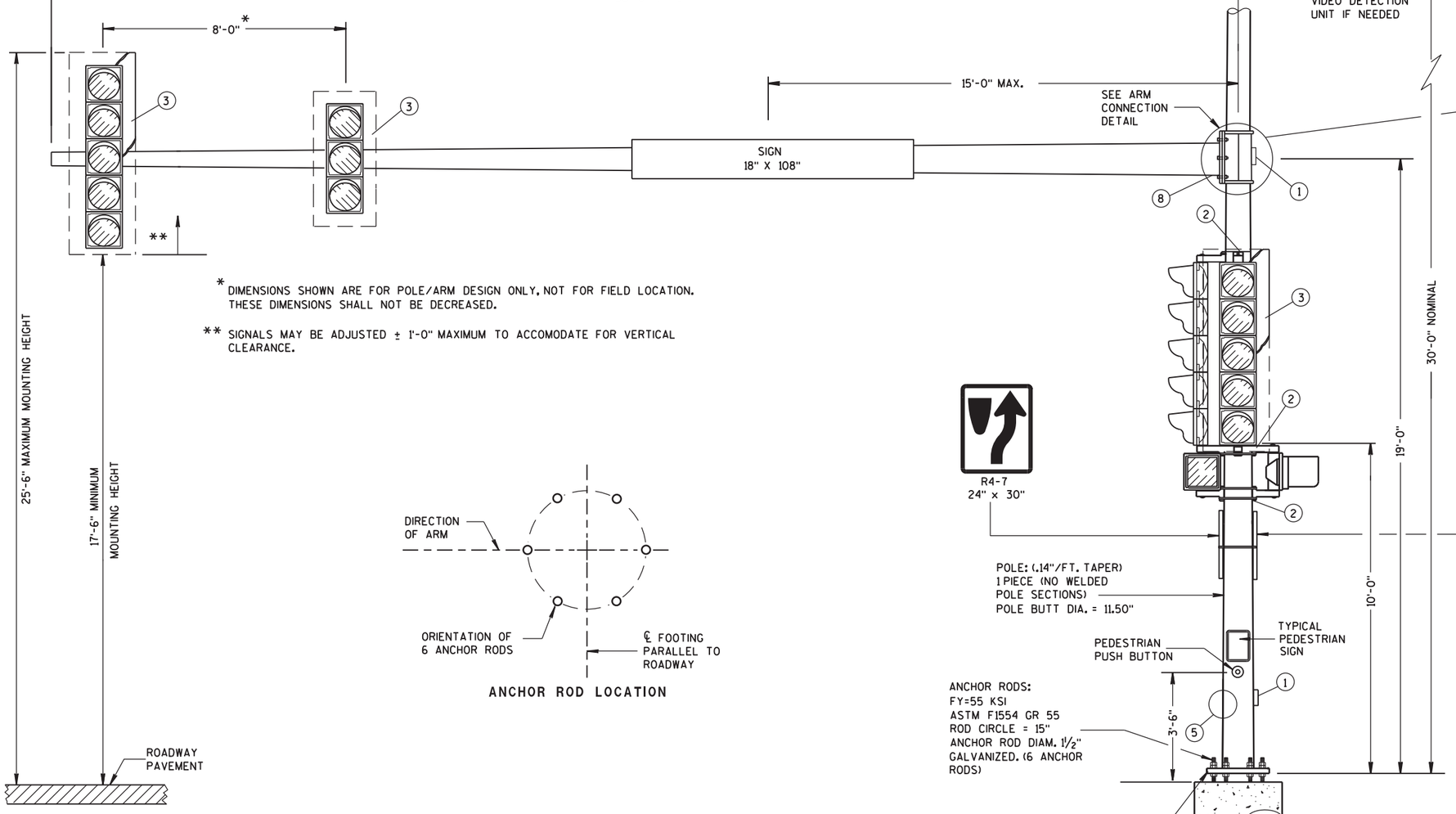
SDD 09E07 - 06



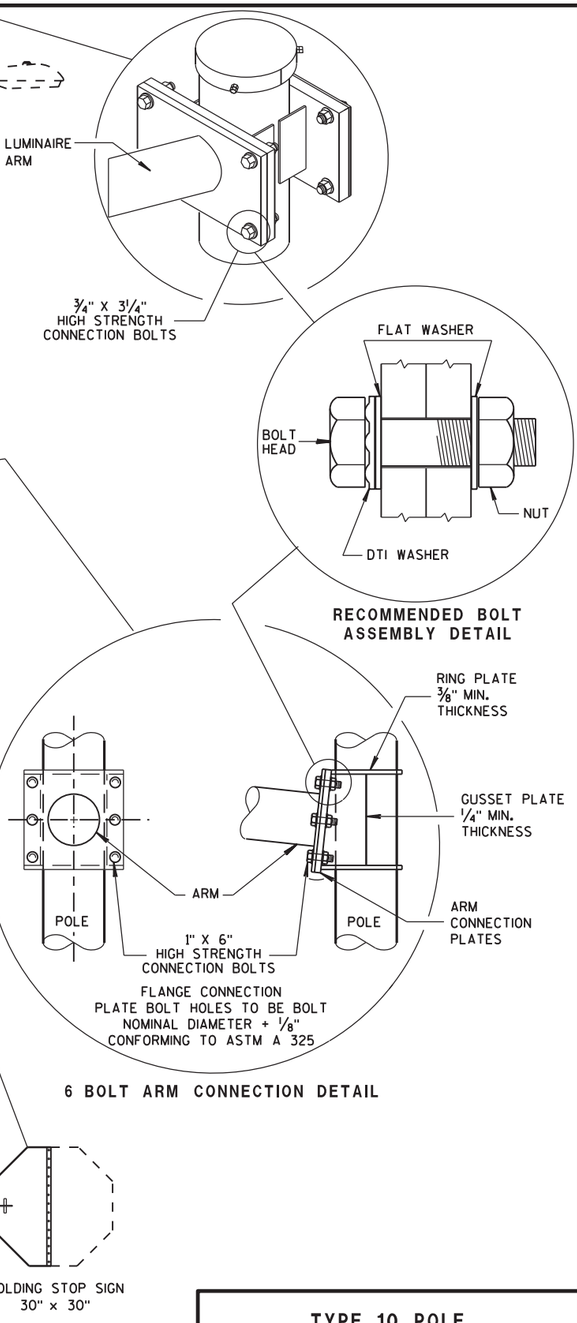


ANCHOR ROD LOCATION



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



(MAXIMUM LOAD)

TYPE 10 POLE
15'- 30' MONOTUBE ARM

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 308
FHWA

6
S.D.D. 9 E 8-8b

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO 2013 6TH EDITION AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

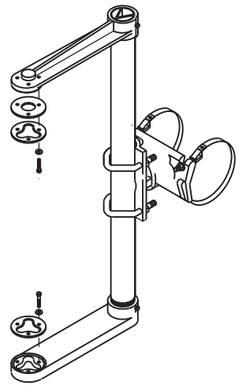
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

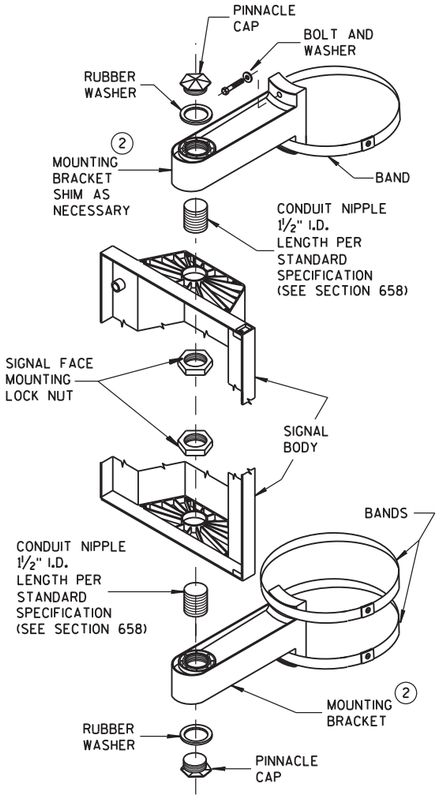
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

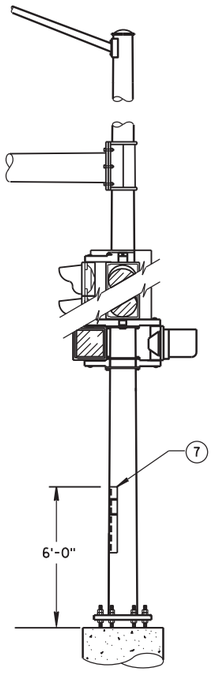


SIGNAL FACE MOUNTING BRACKET
DETAIL FOR MONOTUBE ARM

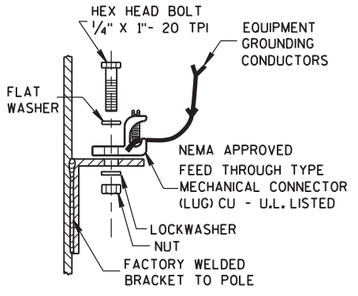
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE
VERTICAL MOUNTING DETAIL

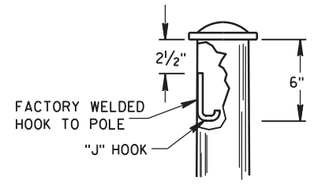


STRUCTURAL IDENTIFICATION
PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL
BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

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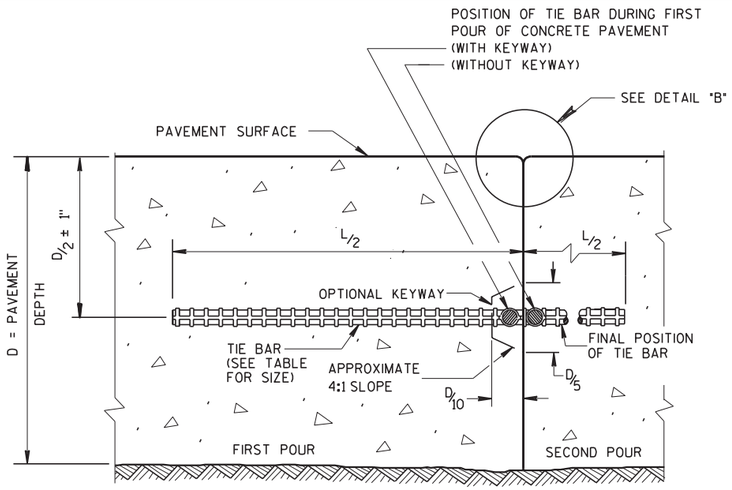
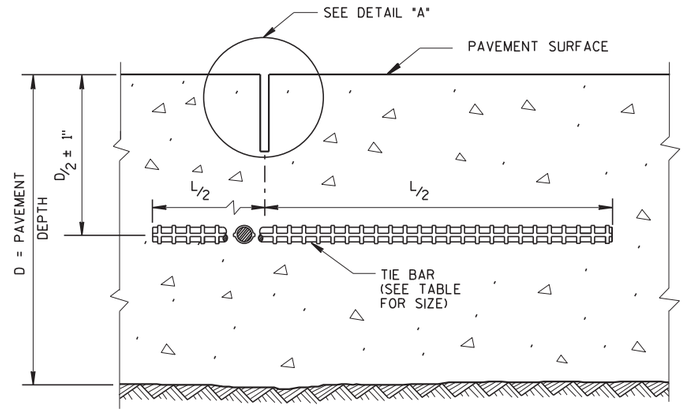


CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

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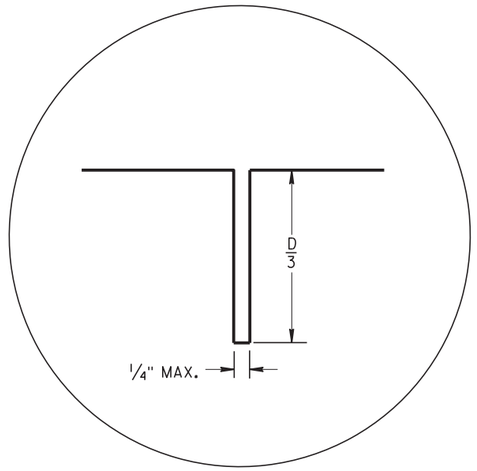
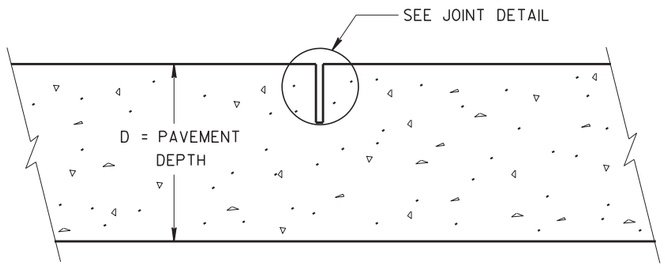


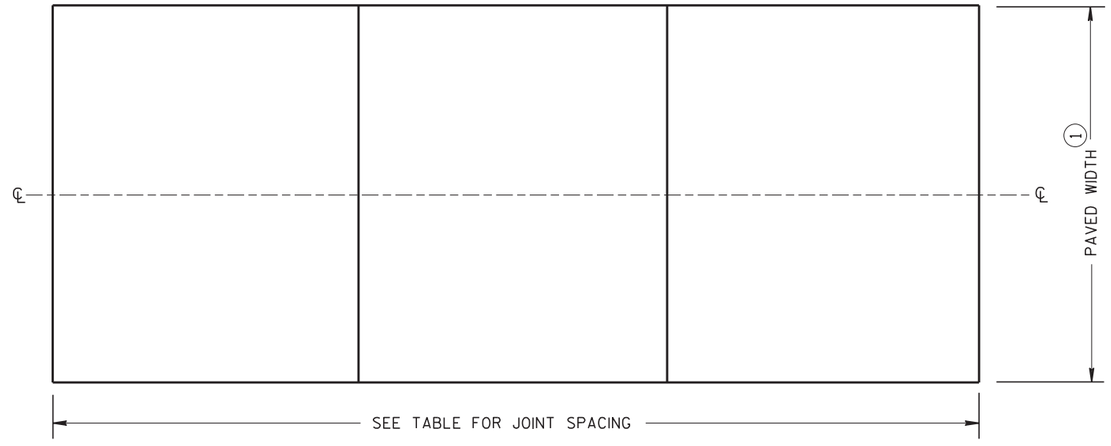
JOINT DETAIL



CONTRACTION JOINT

PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 1/2"	12'
7", 7 1/2"	14'
8" & ABOVE	15'



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE.

LOCATE AND ORIENT CONTRACTION JOINTS THROUGH INTERSECTIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION JOINTS

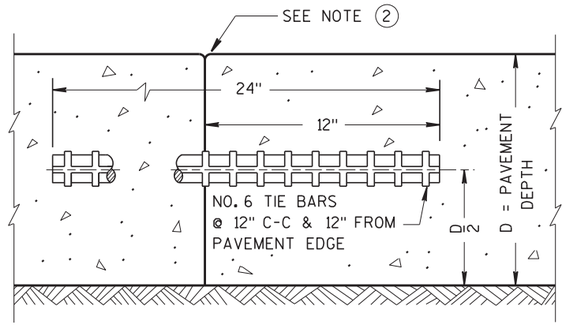
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

FORM OR SAW CONSTRUCTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

(1) REFER TO TYPICAL CROSS SECTIONS FOR PAVED WIDTH AND LOCATION OF LONGITUDINAL JOINTS.

(2) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.



TIED TRANSVERSE CONSTRUCTION JOINT

URBAN
NON-DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPT
FHWA

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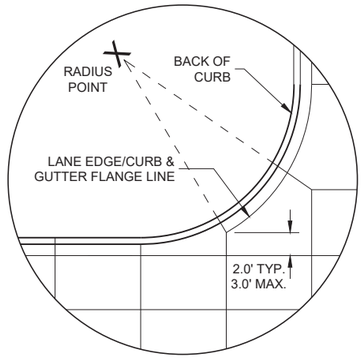
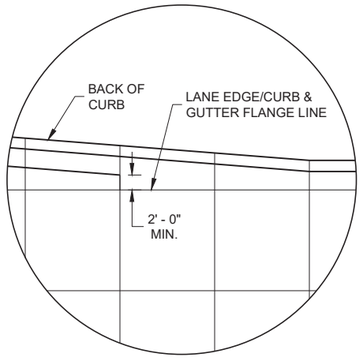


DETAIL "A"



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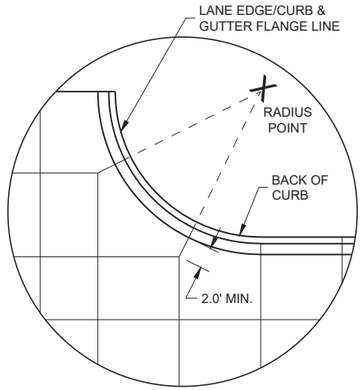
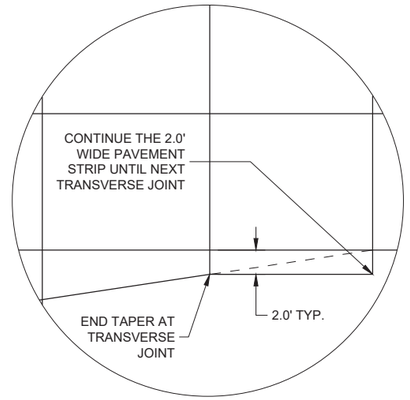


DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

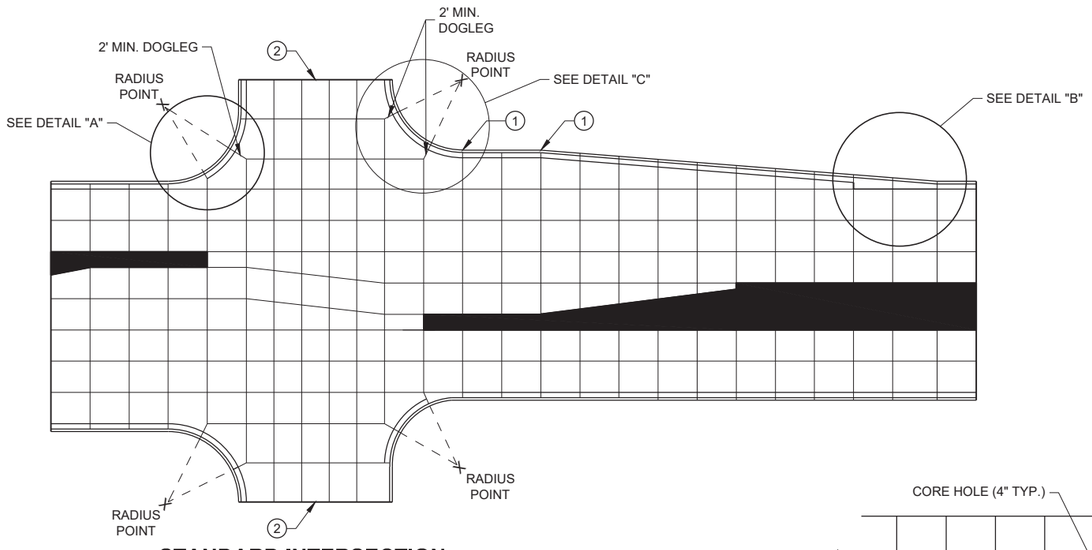
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.

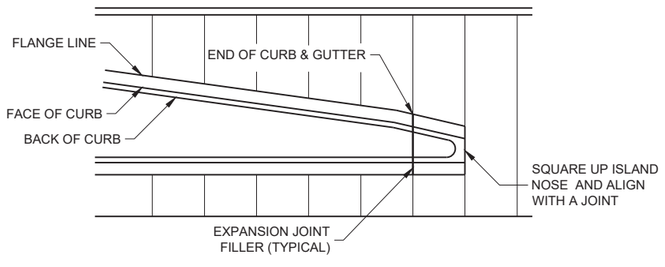


STANDARD INTERSECTION

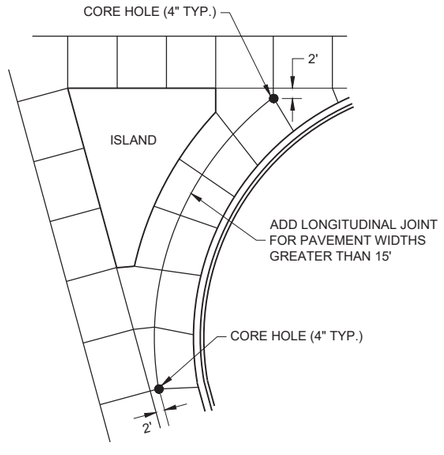
PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'

SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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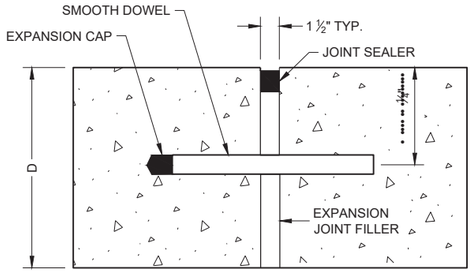
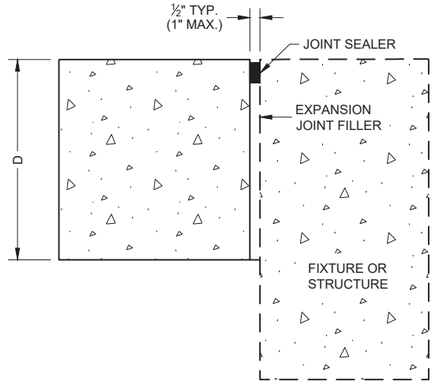
SDD 13C18 - 07a



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

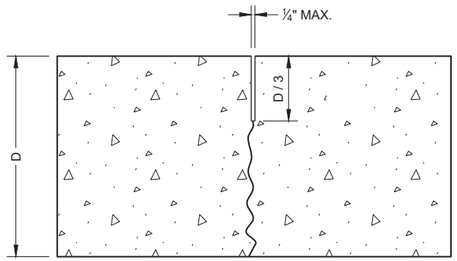
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
••10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

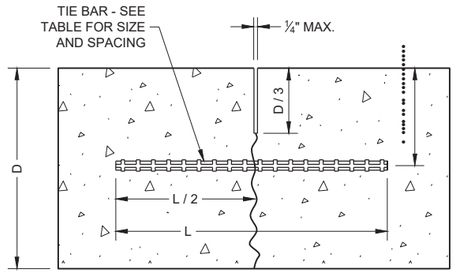
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

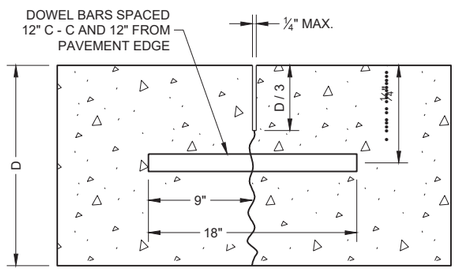
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

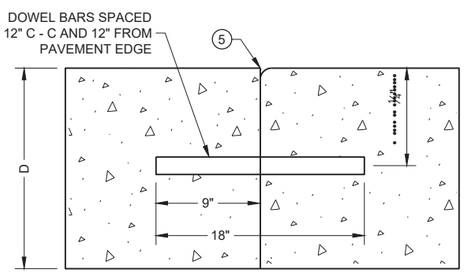


TIED LONGITUDINAL

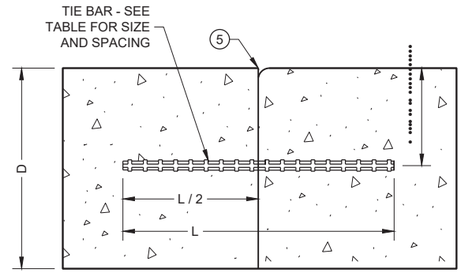


DOWELED TRANSVERSE

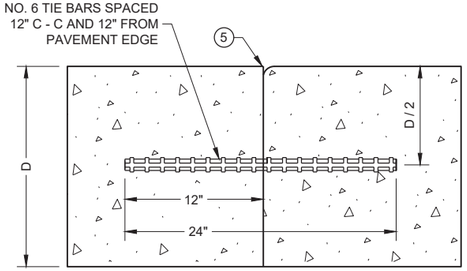
CONTRACTION JOINTS (2)



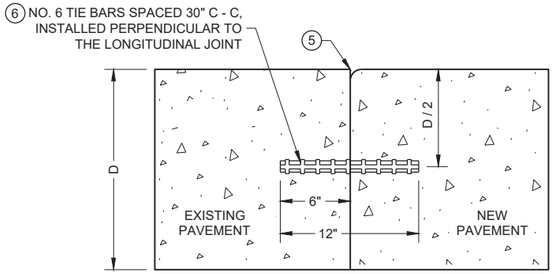
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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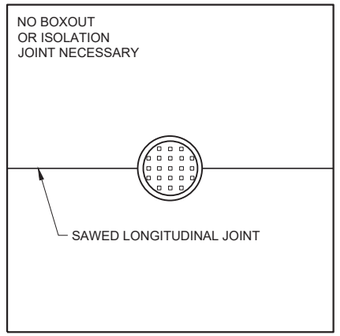
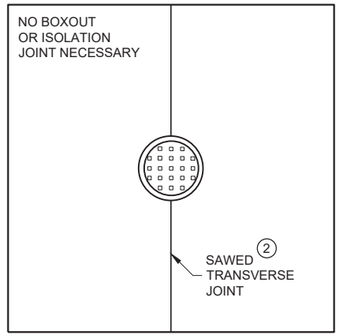
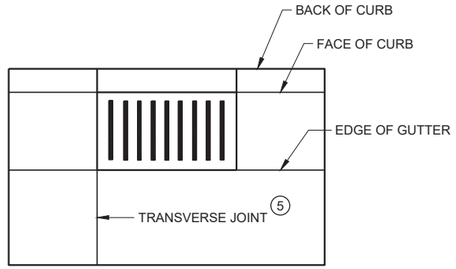


MANHOLE WITH LONGITUDINAL JOINT



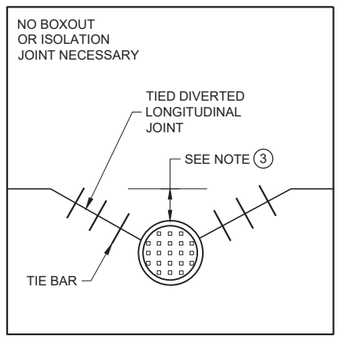
MANHOLE WITH TRANSVERSE JOINT



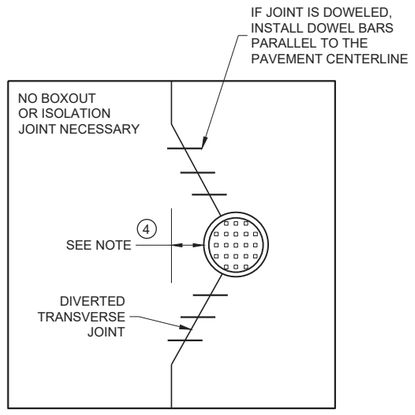
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

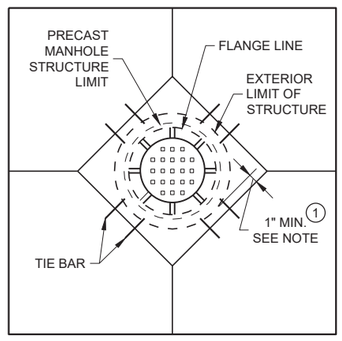
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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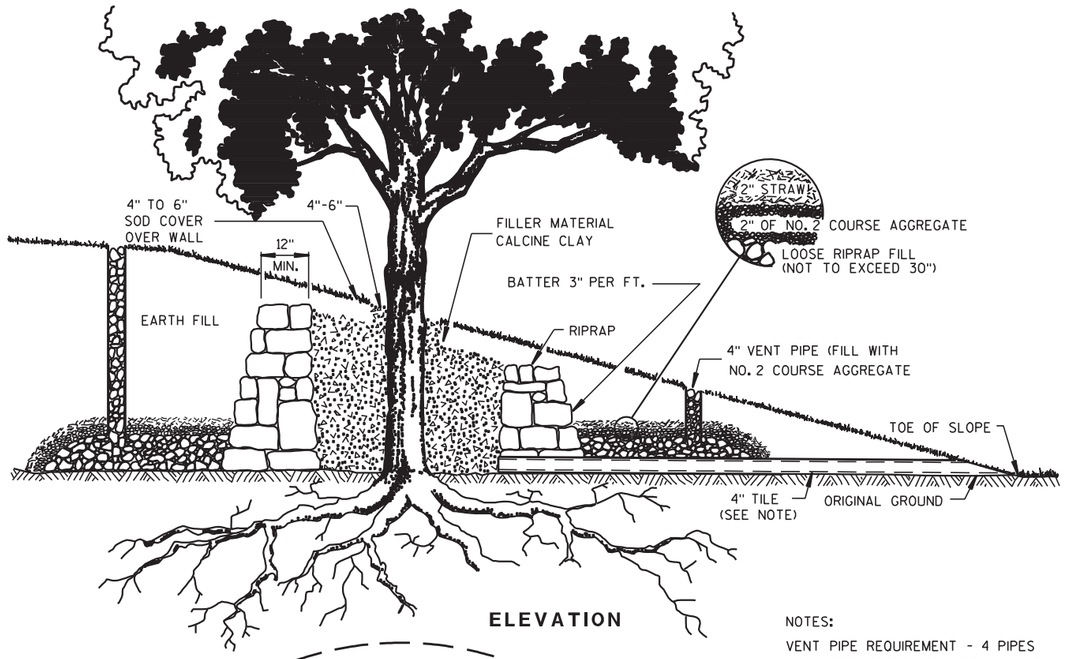
SDD13C18 - 07d
SDD13C18 - 07d



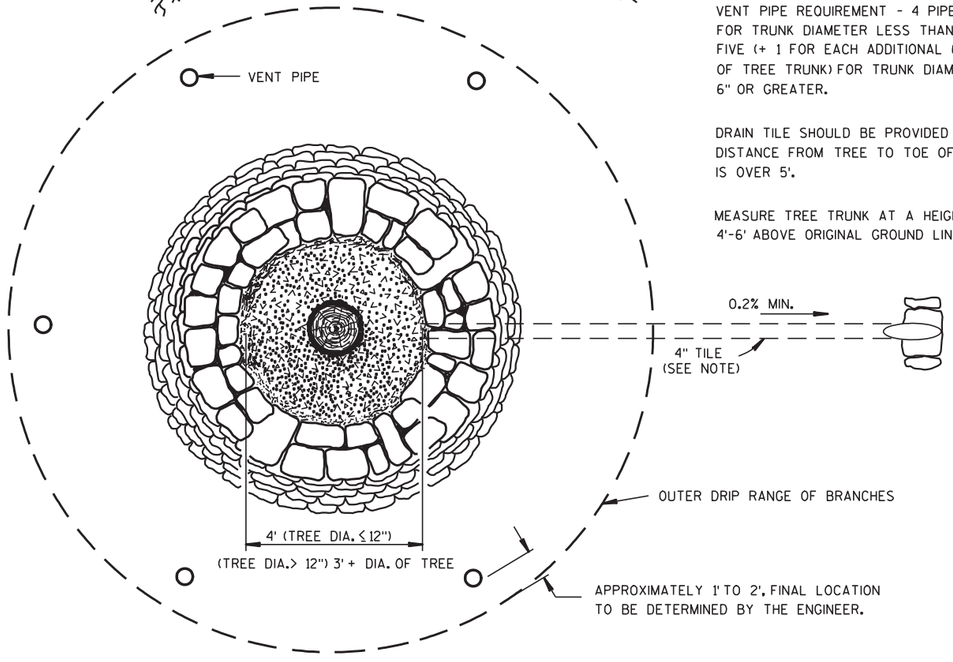
ELEVATION

NOTES:

VENT PIPE REQUIREMENT - 4 PIPES FOR TRUNK DIAMETER LESS THAN 6". FIVE (+ 1 FOR EACH ADDITIONAL 6" OF TREE TRUNK) FOR TRUNK DIAMETER 6" OR GREATER.

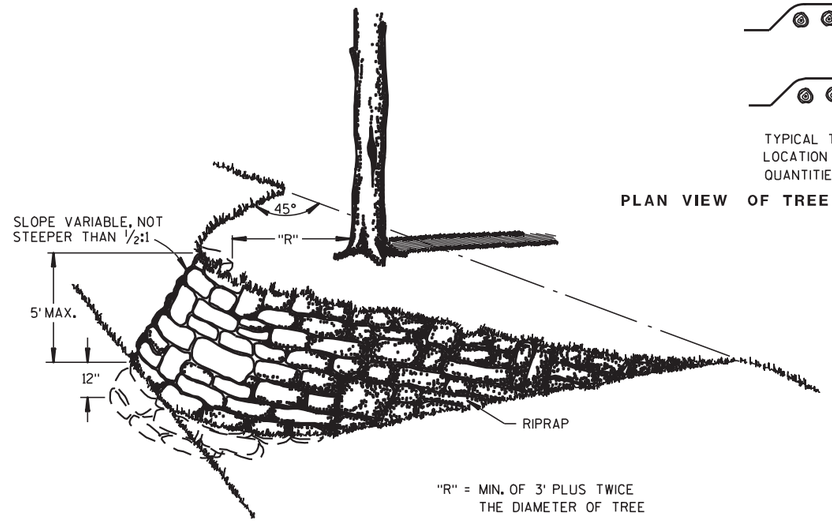
DRAIN TILE SHOULD BE PROVIDED IF DISTANCE FROM TREE TO TOE OF SLOPE IS OVER 5'.

MEASURE TREE TRUNK AT A HEIGHT 4'-6' ABOVE ORIGINAL GROUND LINE.



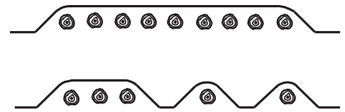
PLAN

FULL TREE WELL WITH RIPRAP WALL



"R" = MIN. OF 3' PLUS TWICE THE DIAMETER OF TREE

DETAILS OF TREE ISLAND AND ROOT PROTECTION



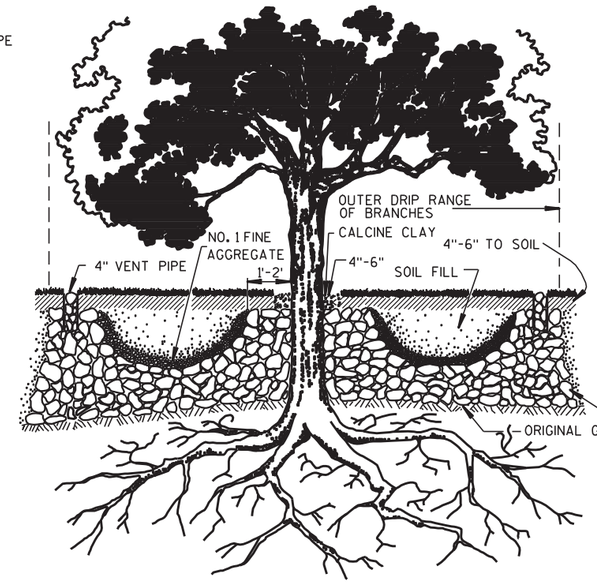
TYPICAL TREATMENTS OF ROOT PROTECTION. LOCATION SHOWN ON MISCELLANEOUS QUANTITIES SHEET.

PLAN VIEW OF TREE ISLANDS FOR ONE OR MORE TREES

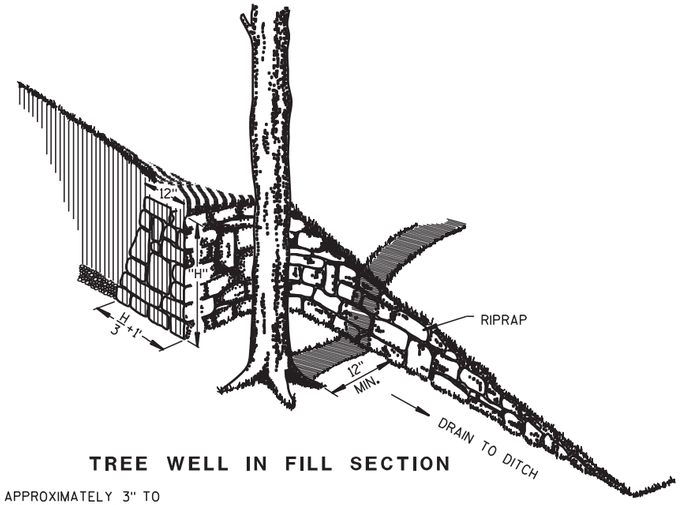
GENERAL NOTES

WALLS TO BE BUILT TO APPROXIMATE SHAPE AND DIMENSIONS SHOWN. STONE TO CONFORM TO SPECIFICATIONS FOR RIPRAP.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.



TREE WELL WITHOUT WALL



TREE WELL IN FILL SECTION

DETAILS FOR TREE WELLS

TREE PRESERVATION DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

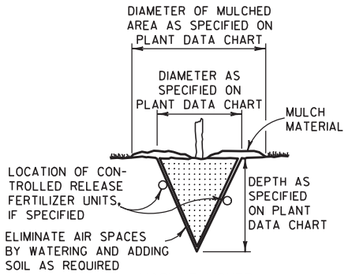
APPROVED
8/25/76 DATE
/S/ D. L. Strand STATE DESIGN ENGINEER
315 WYS
FHWA

6

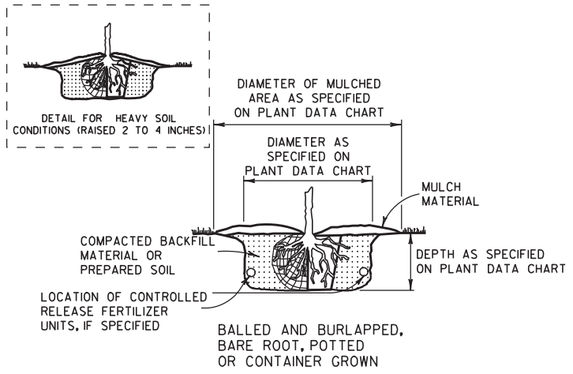
S.D.D. 14 A 1-3

6

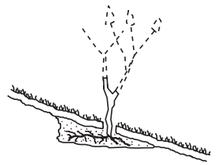
S.D.D. 14 A 1-3



MACHINE MOVED

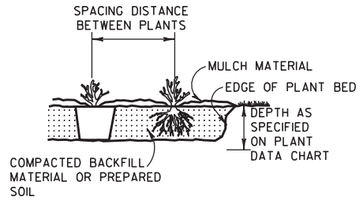


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



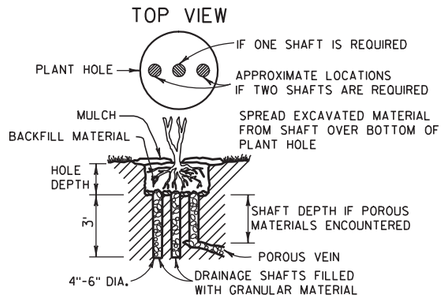
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



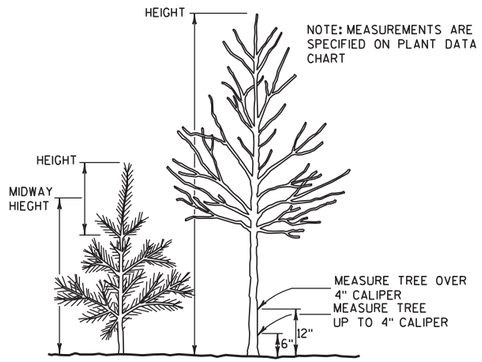
PREPARED BED (BARE ROOT AND POTTED)

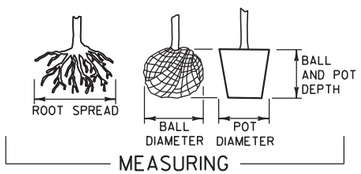
PLANTING



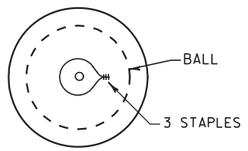
NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

DRAINING

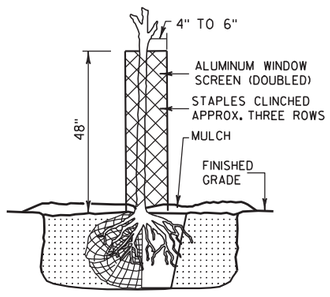




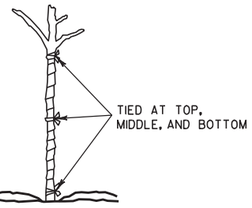
MEASURING



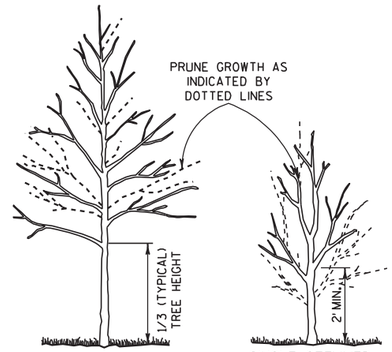
TOP VIEW



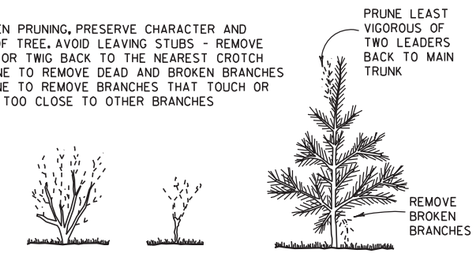
RODENT PROTECTION



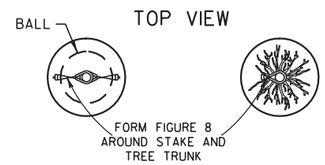
WRAPPING

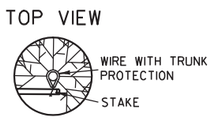


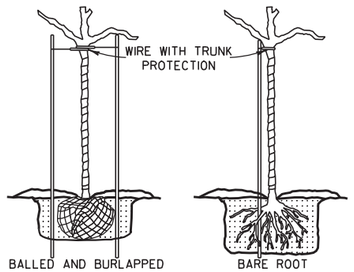
NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

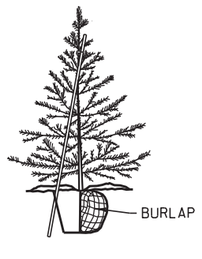


PRUNING



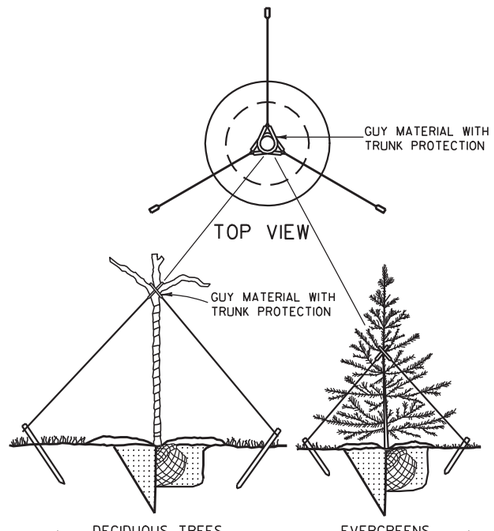






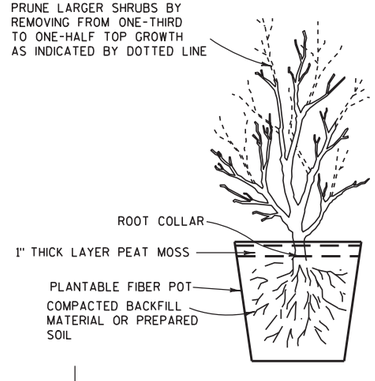
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

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



POTTING

NOTES

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

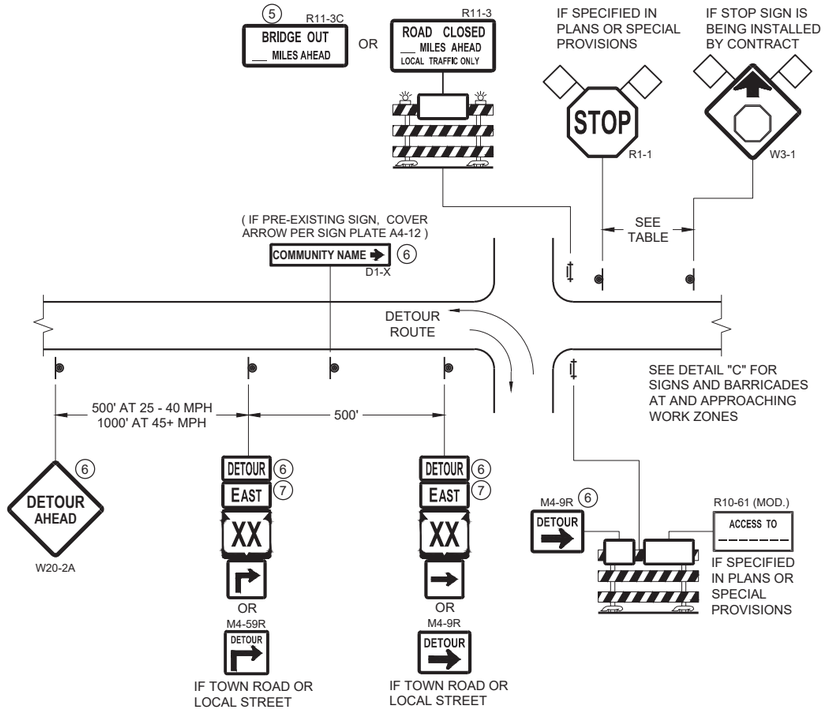
BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

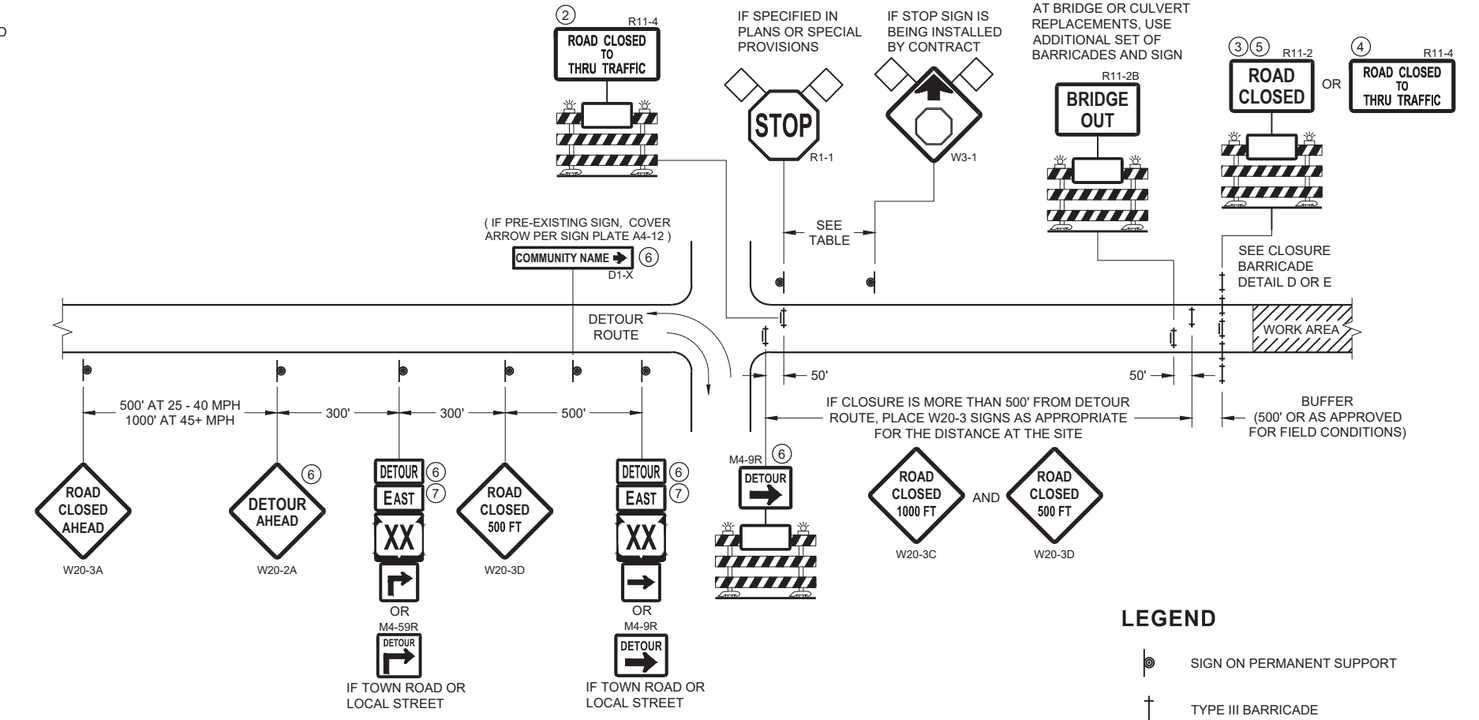
APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
316
FHWA

6
S.D.D. 14 A 2-1
6



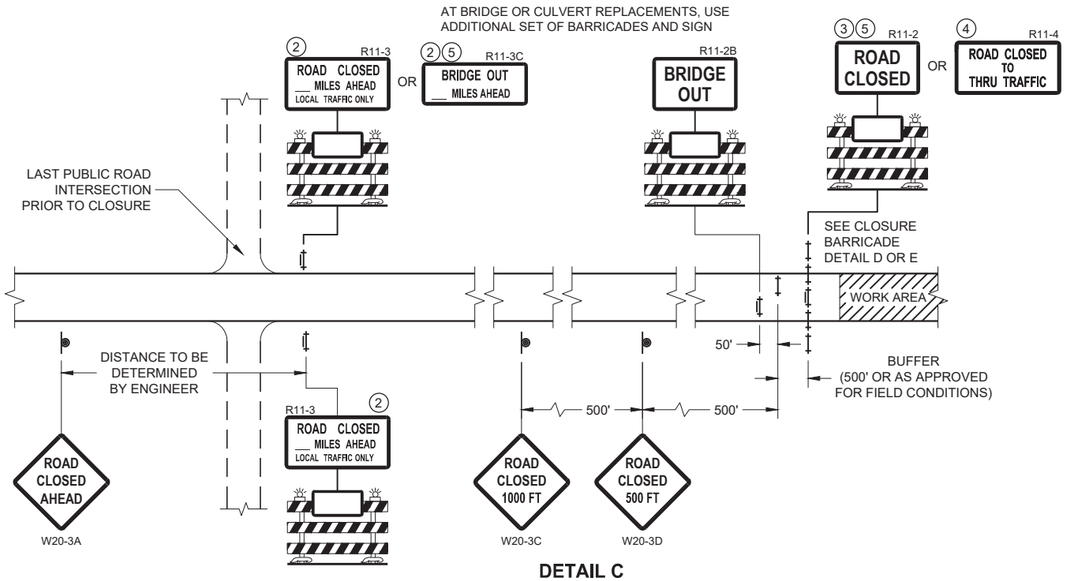
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

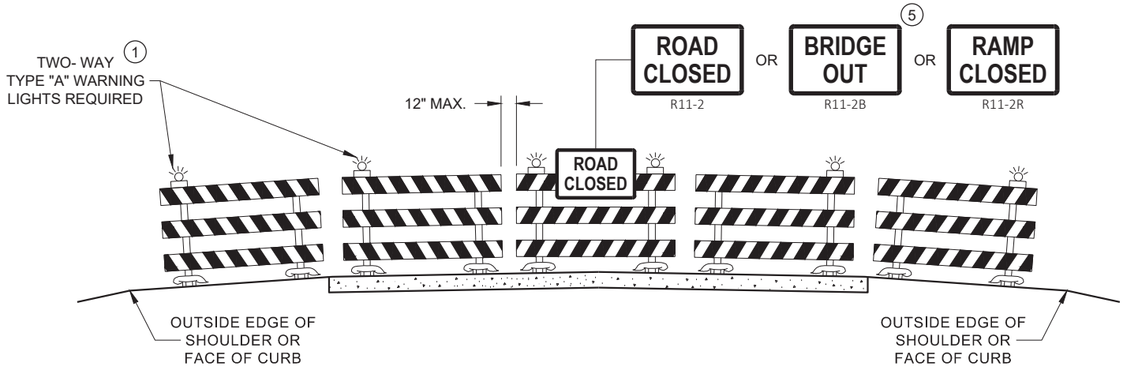
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

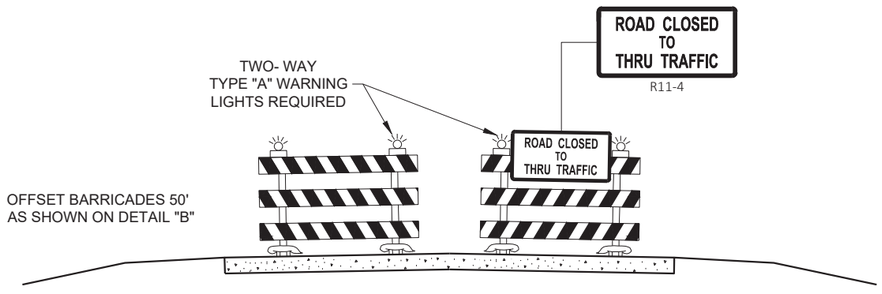
FHWA

317

6
SDD 15C02 - 07a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

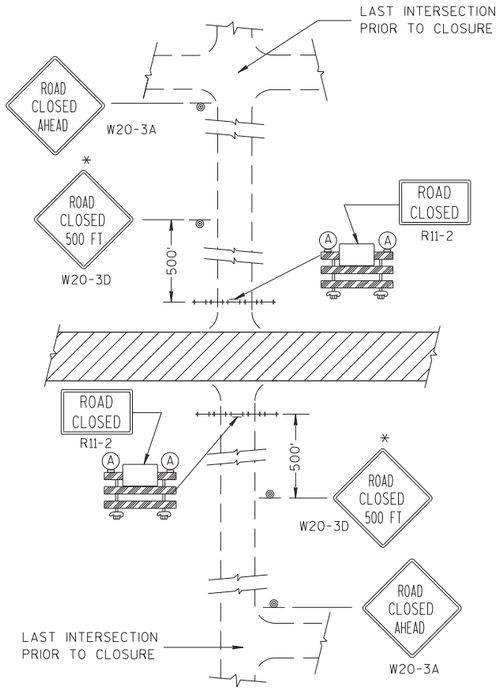
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

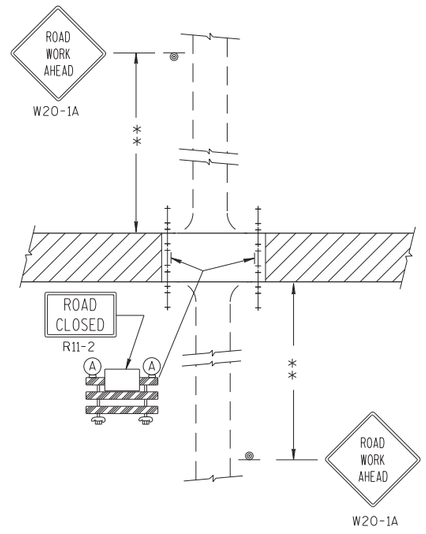
6

SDD 15C02 - 07b



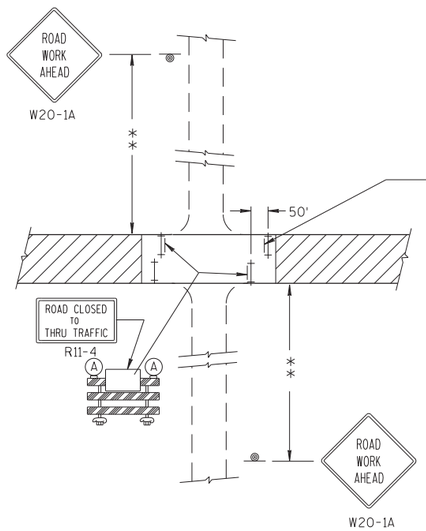
DETAIL 1

(NO ACCESS TO PROJECT)



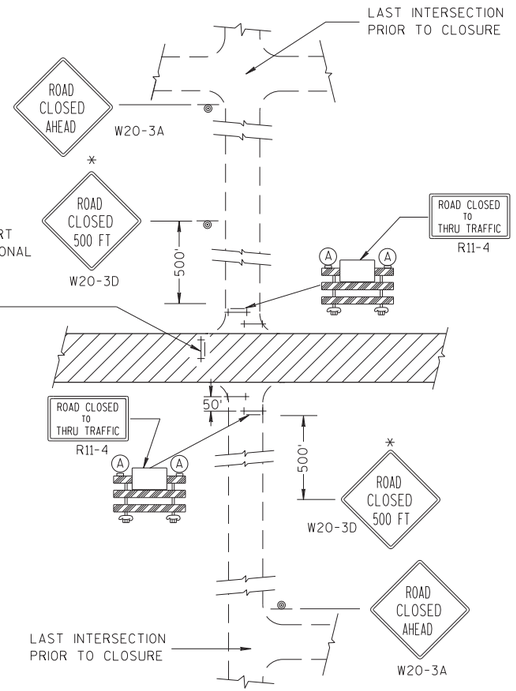
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGI

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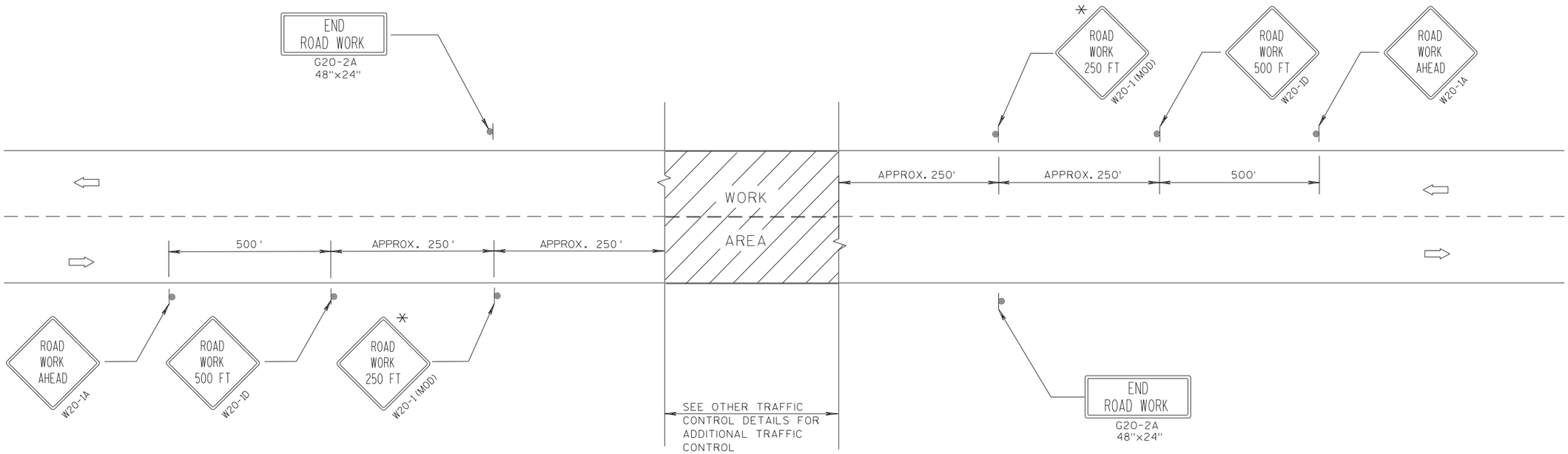
S.D.D. 15 C 3-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

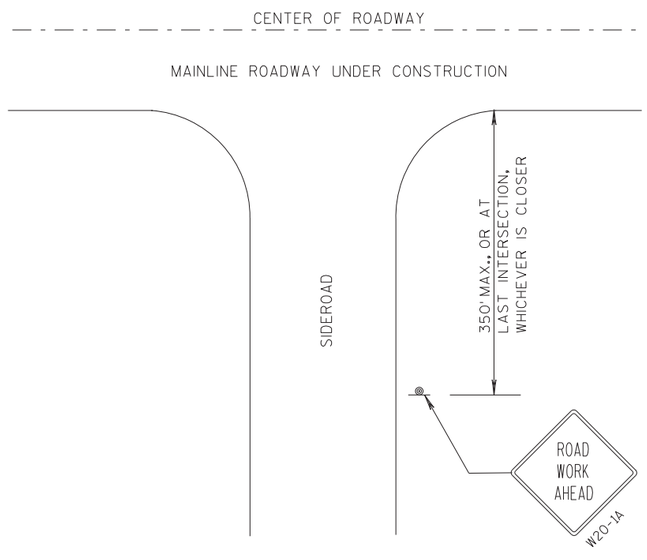
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

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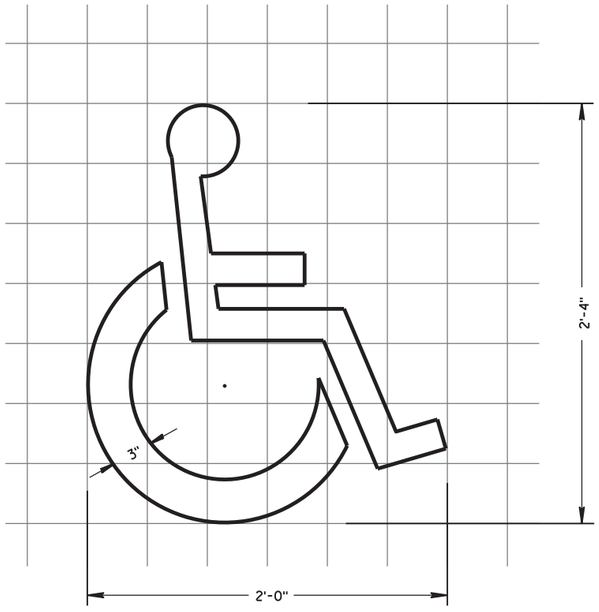
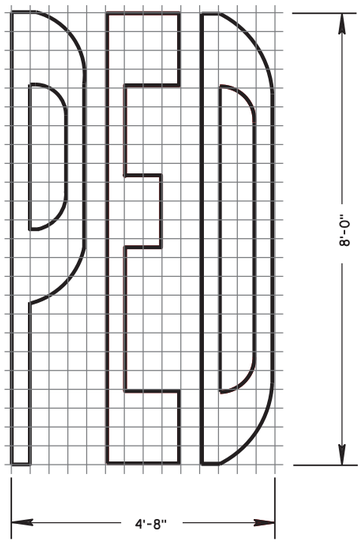
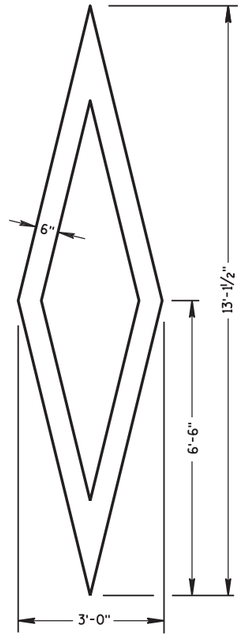
GENERAL NOTES

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



HANDICAP SYMBOL





PREFERENTIAL LANE SYMBOL

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S.D.D. 15 C 7-14a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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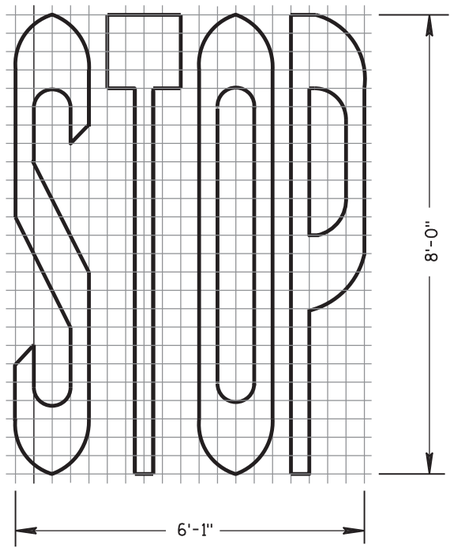
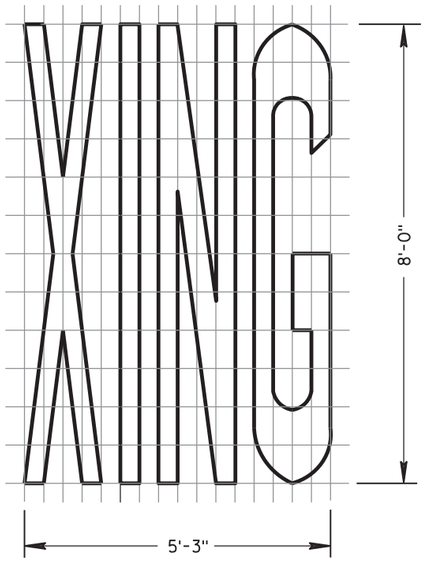
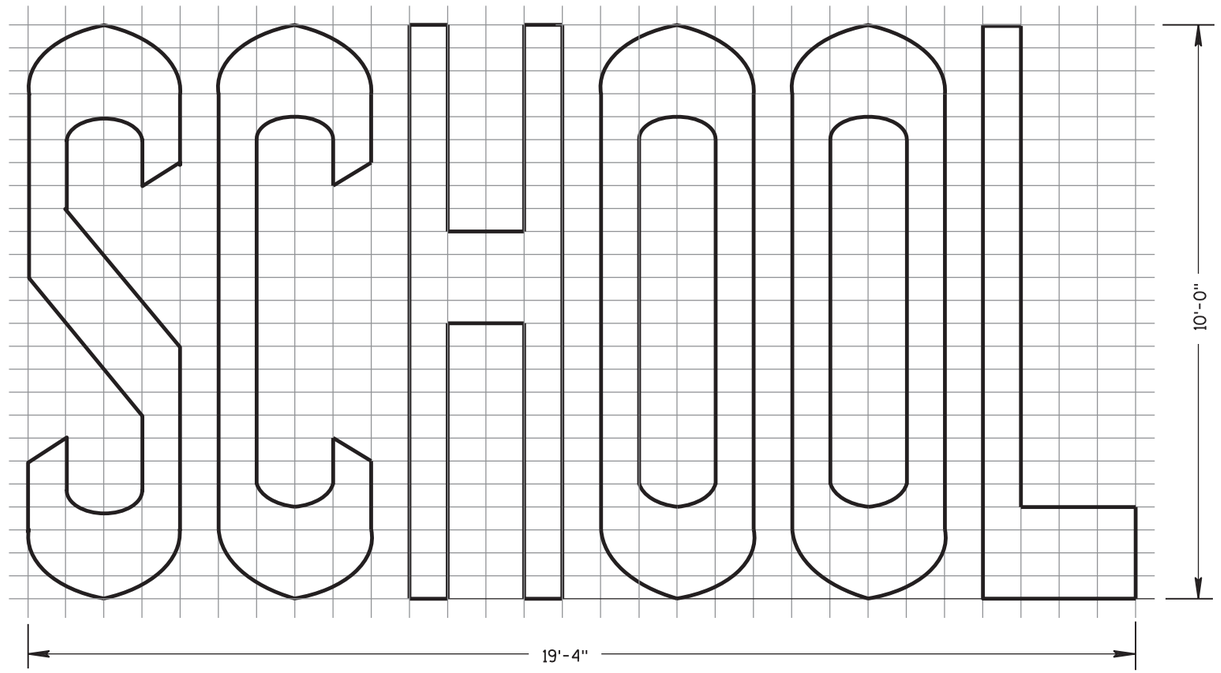
GENERAL NOTES

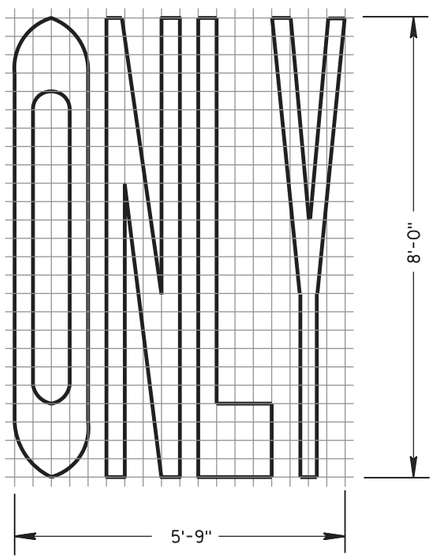
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

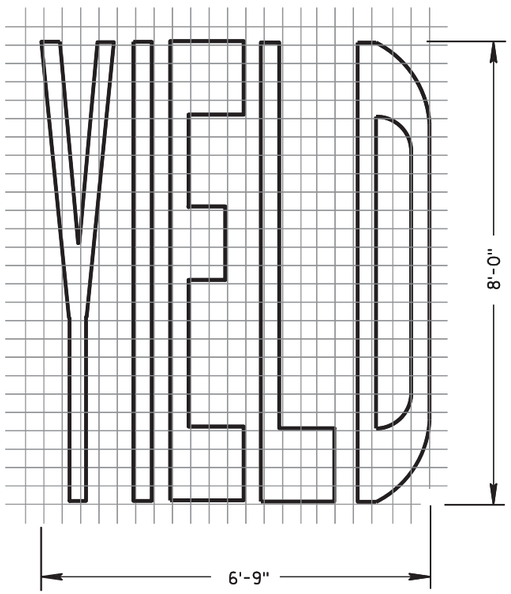


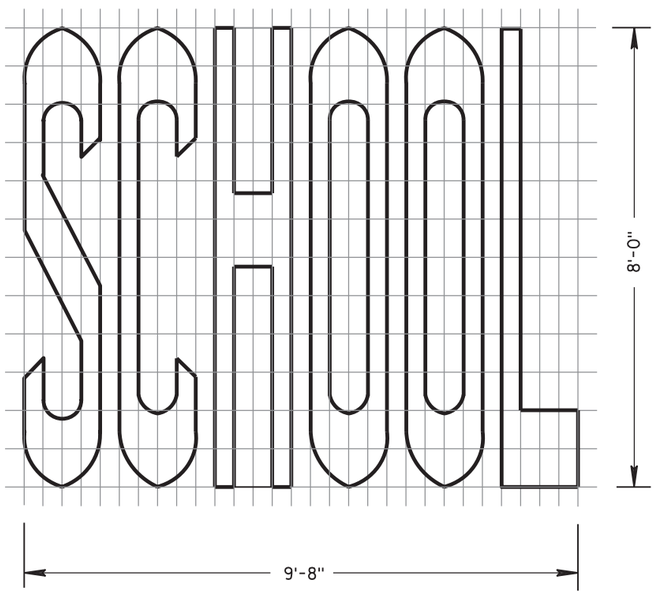




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June 2017 — DATE
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S.D.D. 15 C 7-14b

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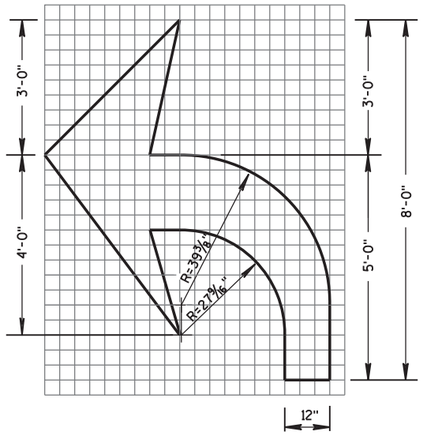
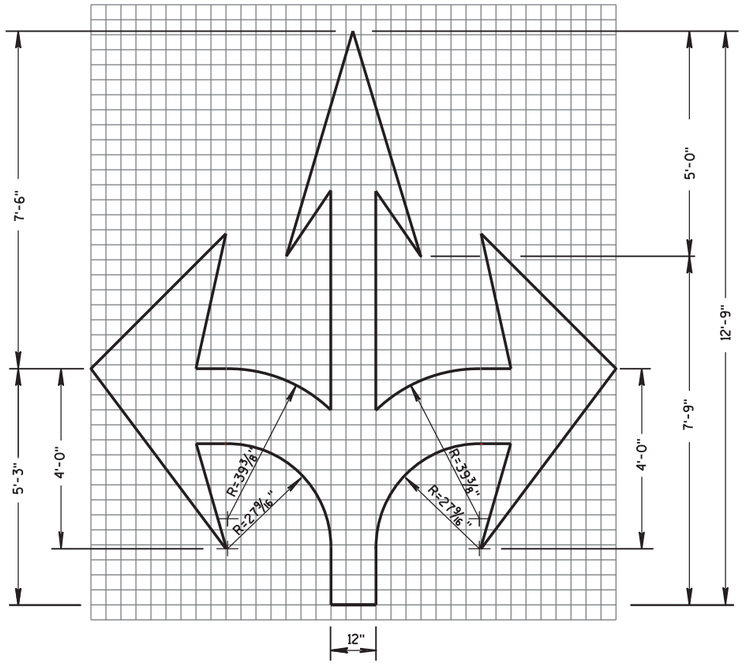
GENERAL NOTES

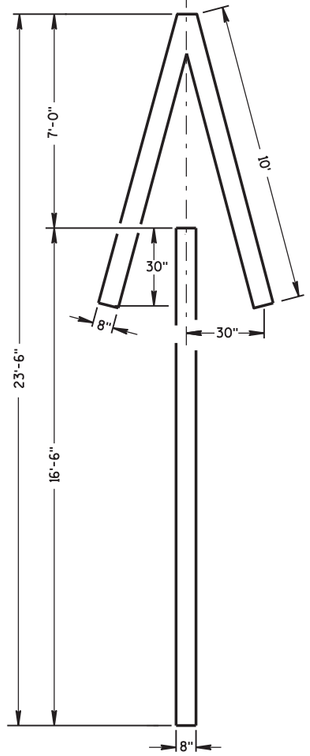
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



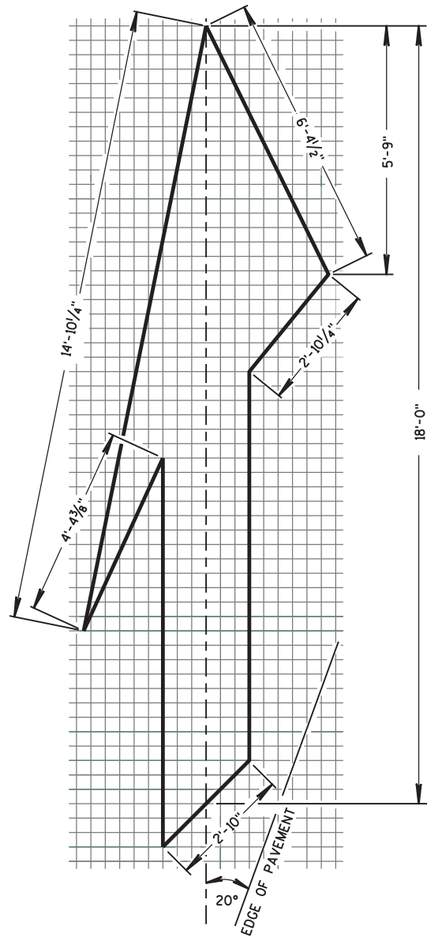
TYPE 2



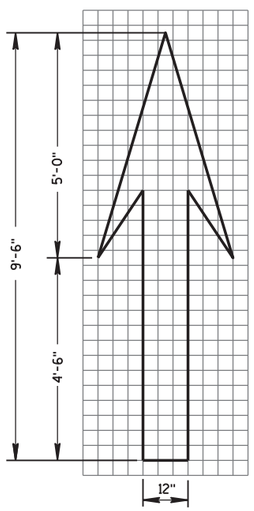
TYPE 6



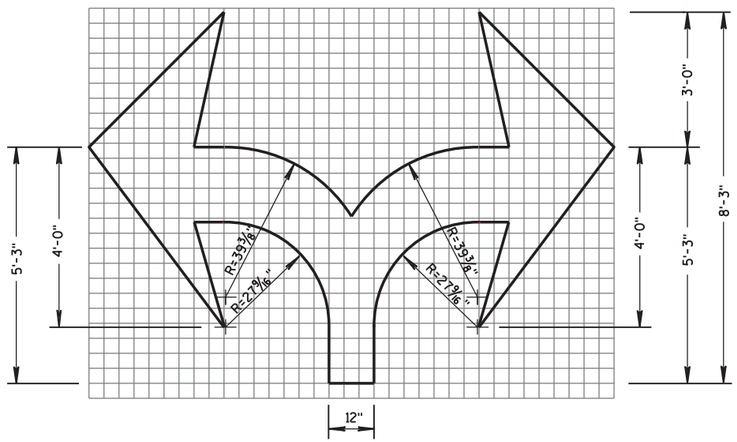
TYPE 4



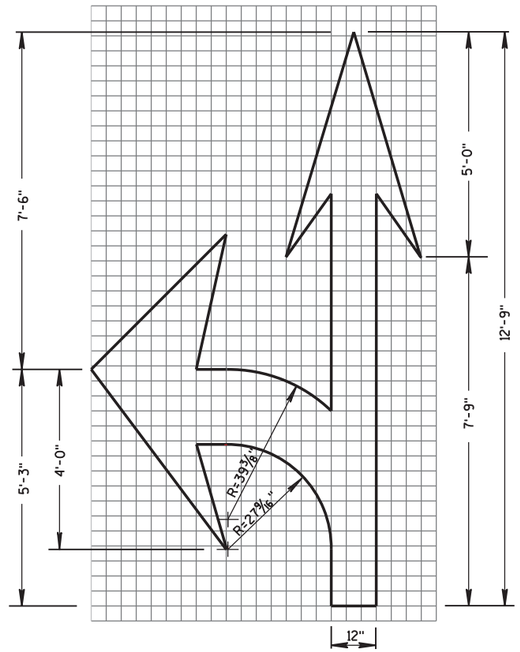
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

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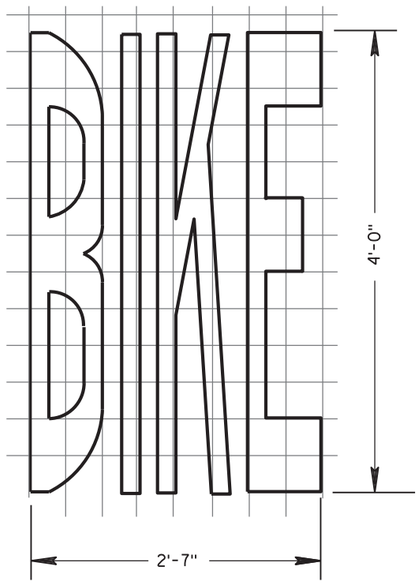
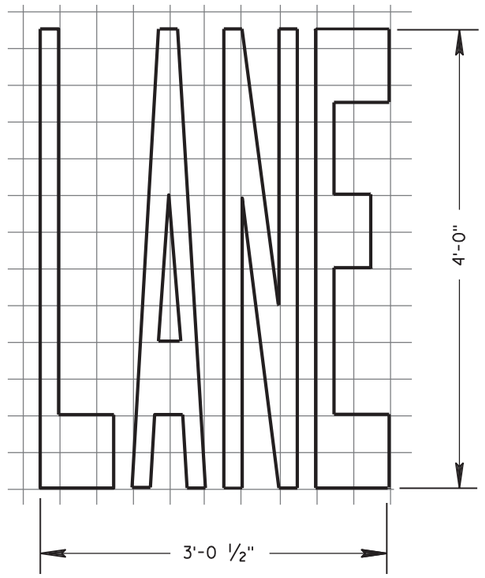
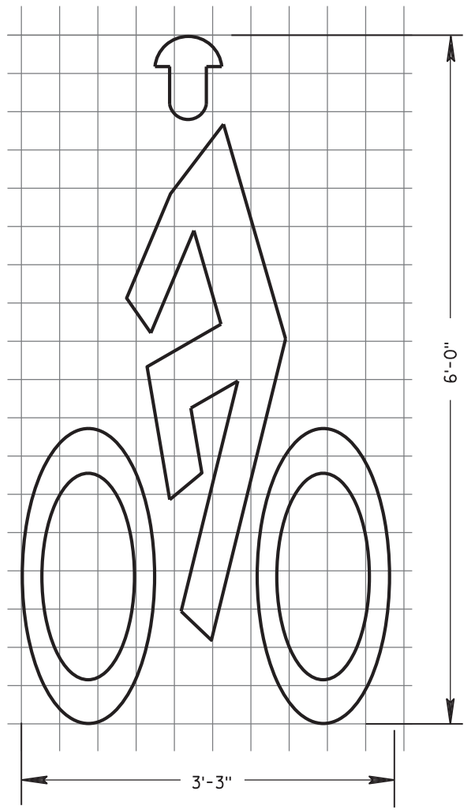
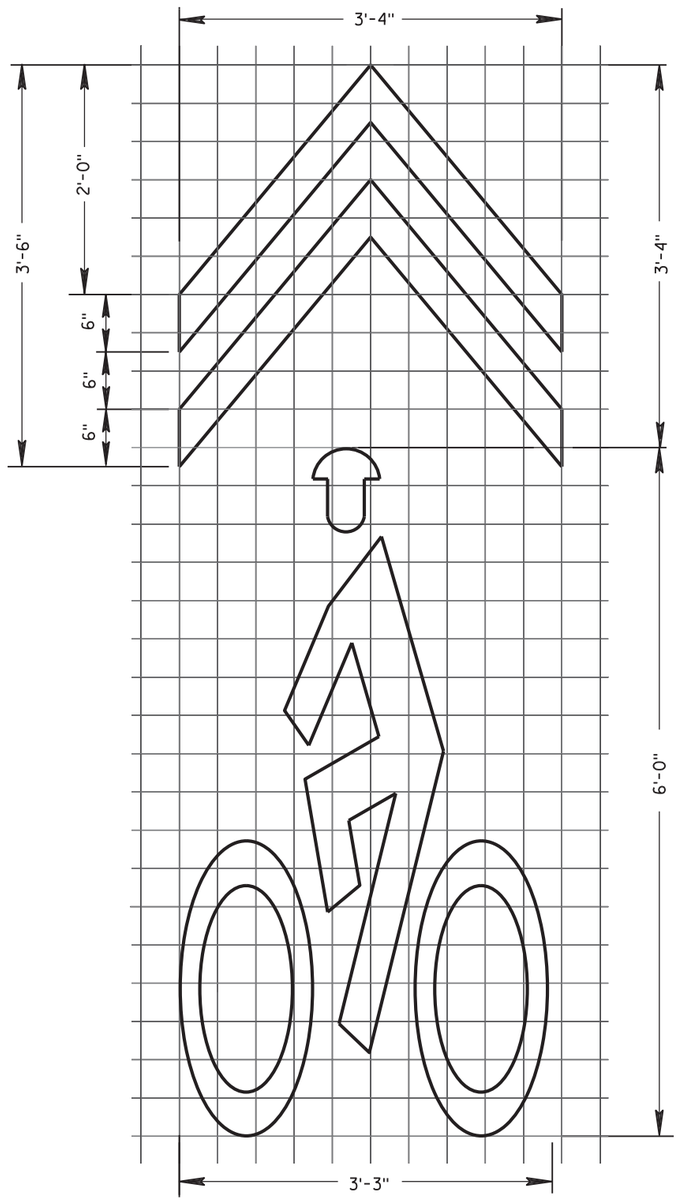




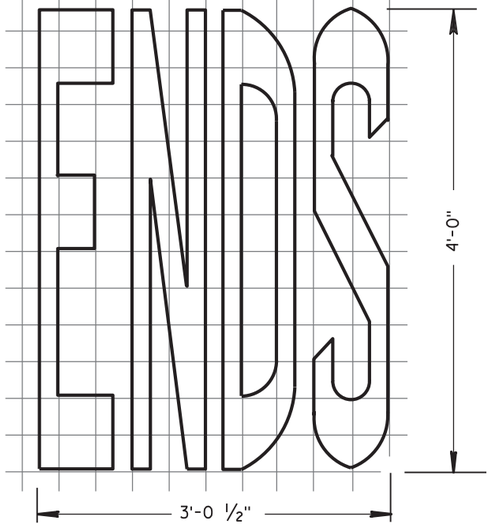
BIKE LANE WORDS



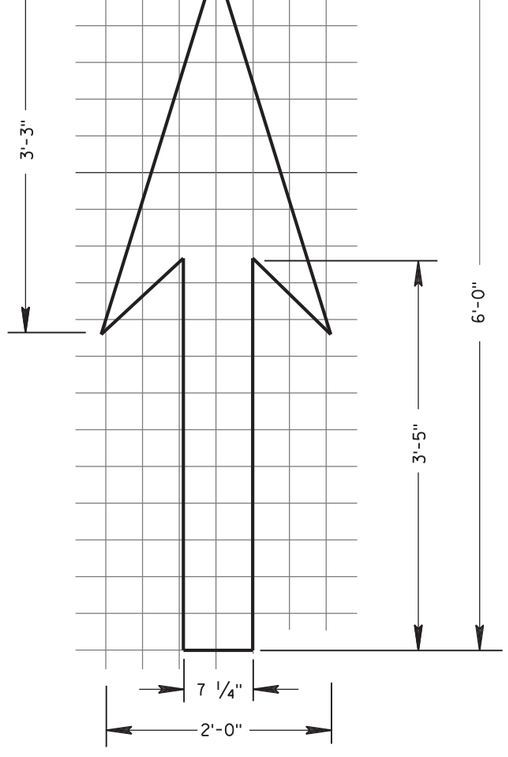
BIKE LANE SYMBOL



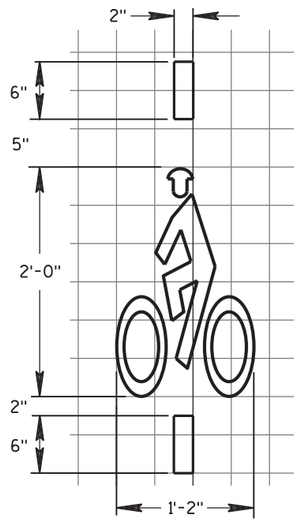
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

GENERAL NOTES

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

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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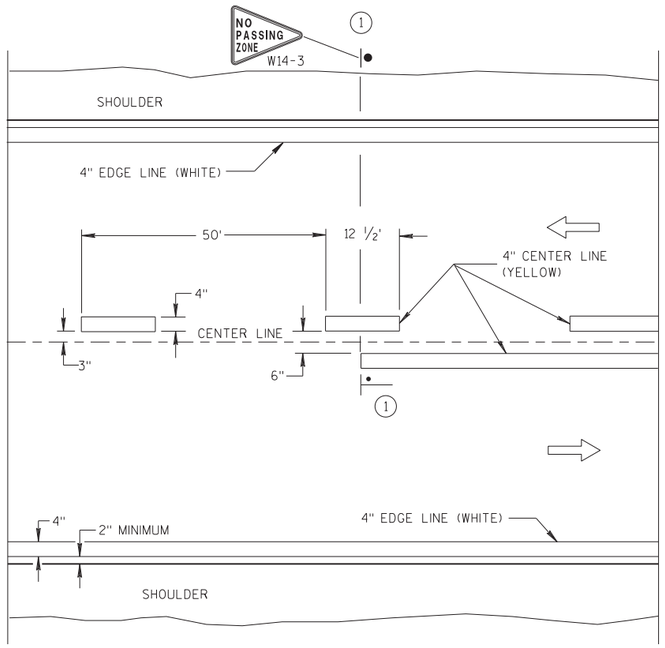
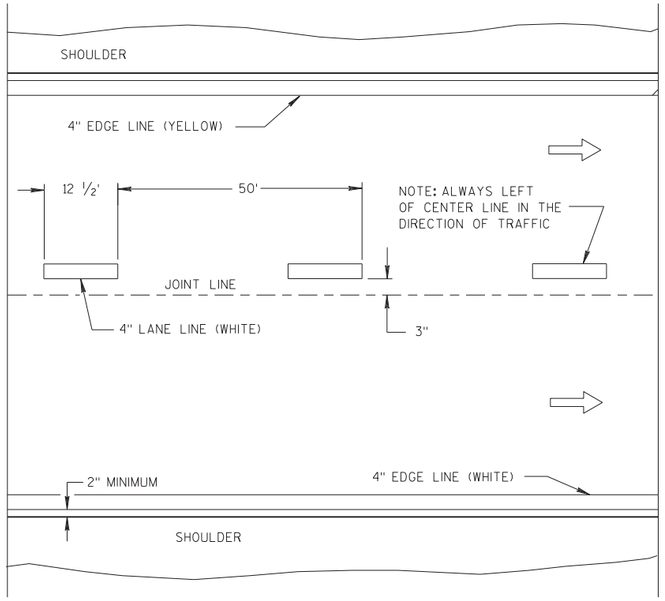


TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

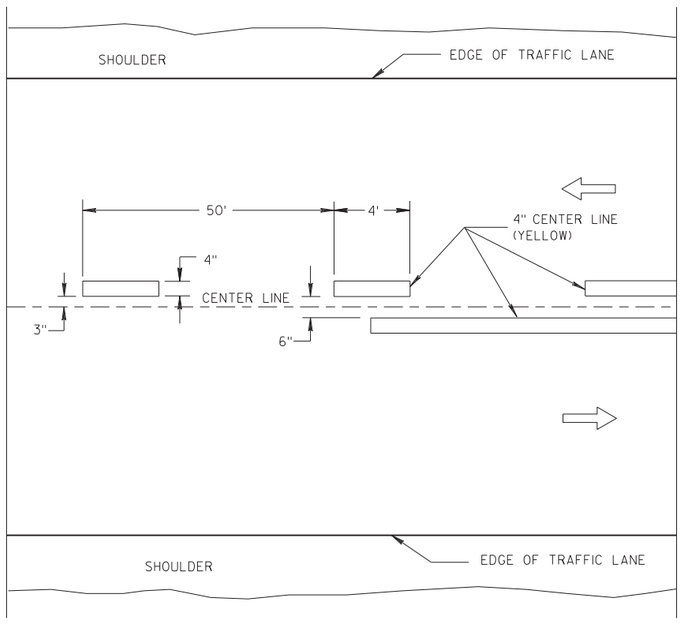
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

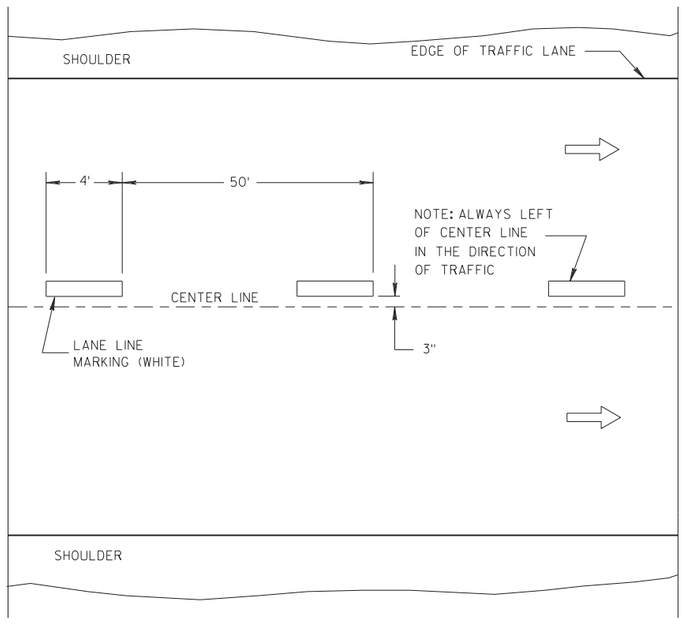
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7/2018 DATE

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STATE SIGNING AND MARKING ENGINEER

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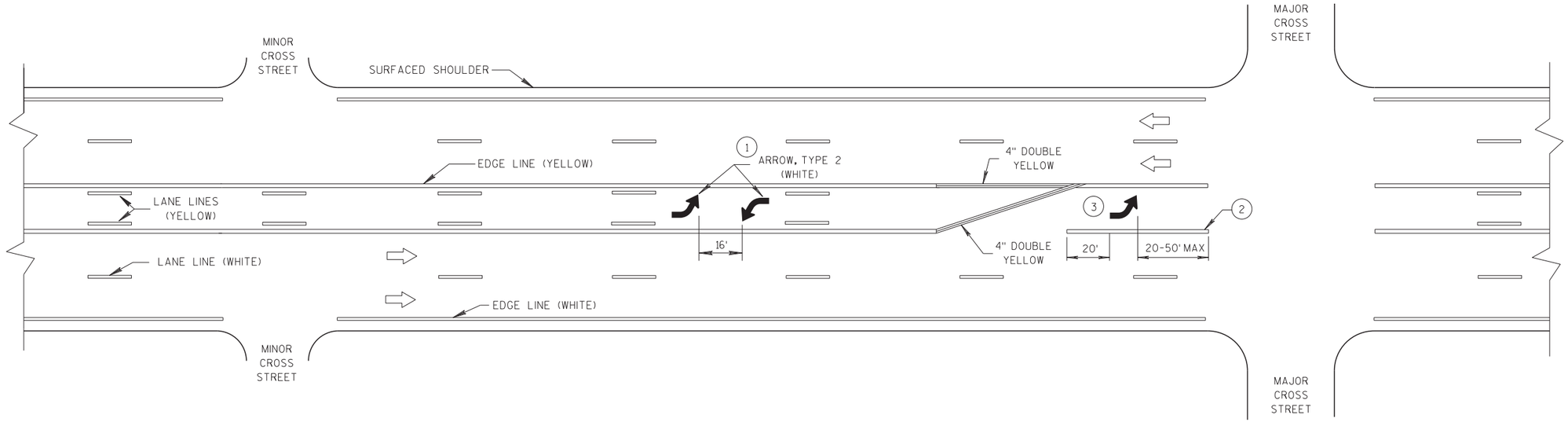
S.D.D. 15 C 8-19a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



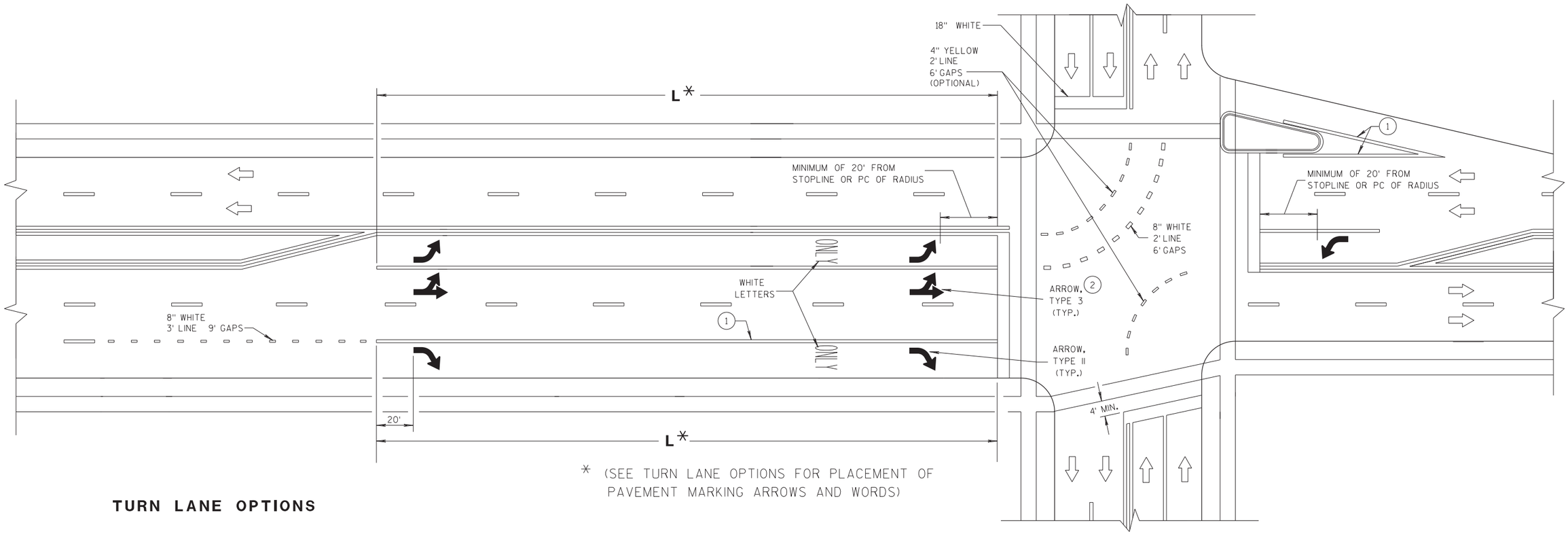
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

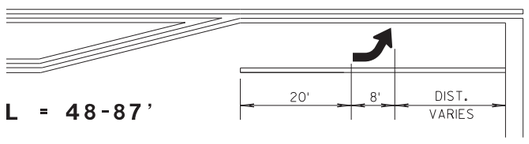
S.D.D. 15 C 8-19b



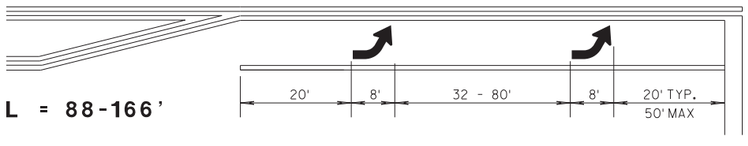
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

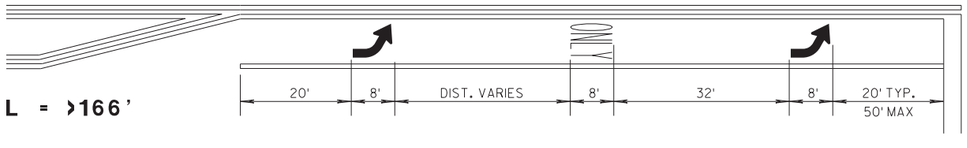
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

6
S.D.D. 15 C 8-19c

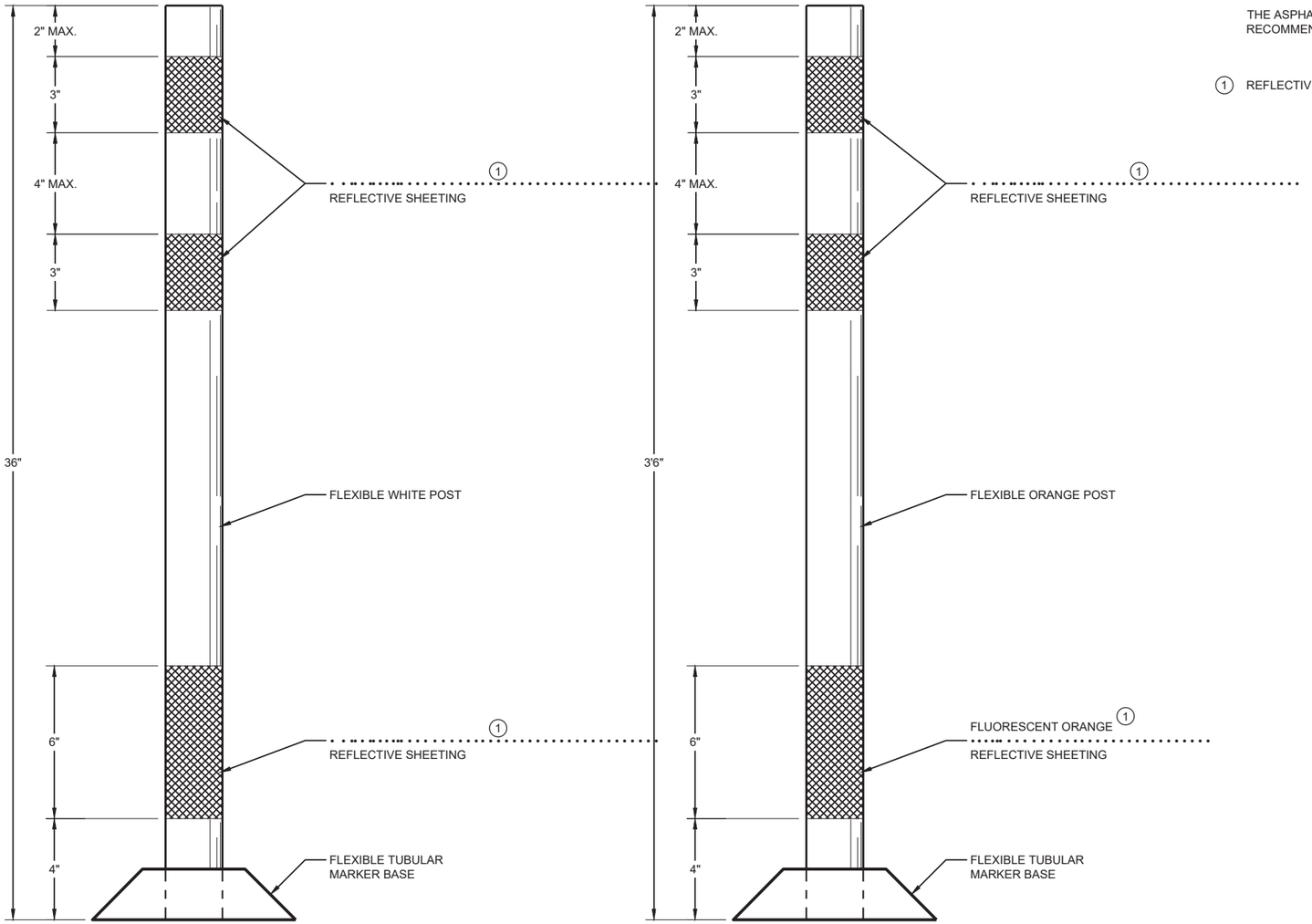
GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.



FLEXIBLE TUBULAR MARKER POST PERMANENT CROSSOVER

FLEXIBLE TUBULAR MARKER POST WORK ZONE

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
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SDD 15C11 - 07a

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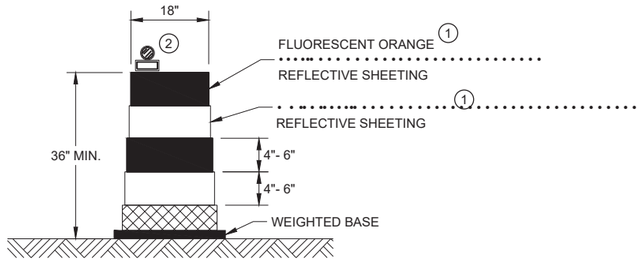
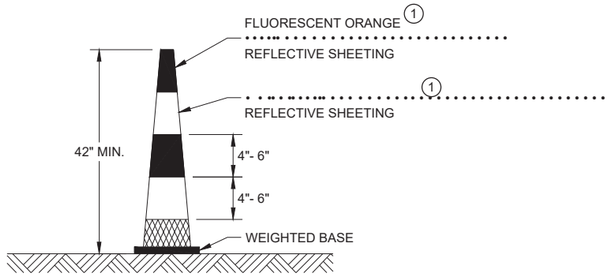
SDD 15C11 - 07a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

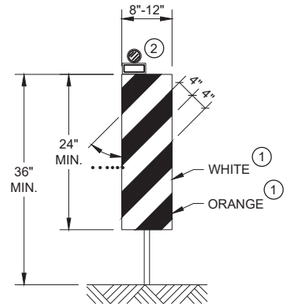


DRUM



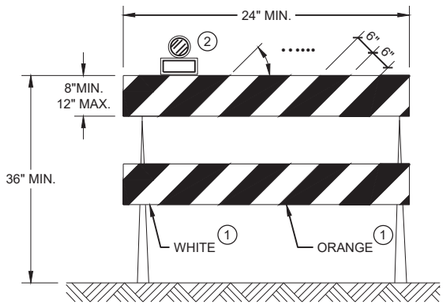
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



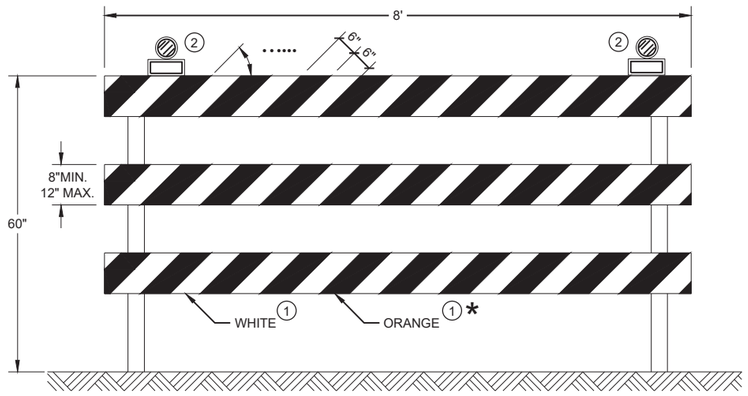
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15C11 - 07b

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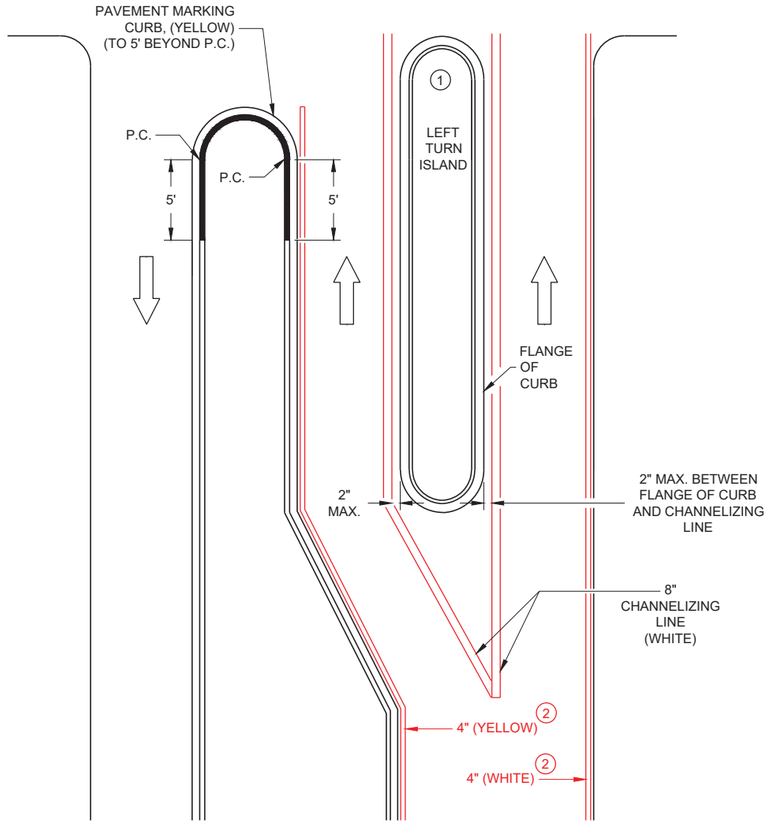
SDD 15C11 - 07b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

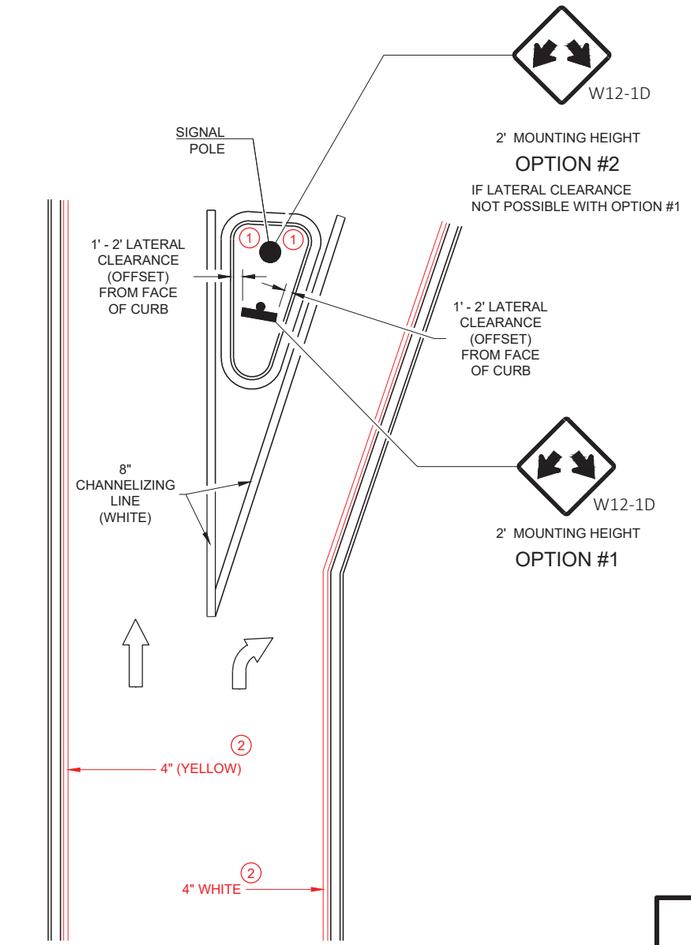
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAF ENGINEER
330
FHWA

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SDD 15C27 - 03a

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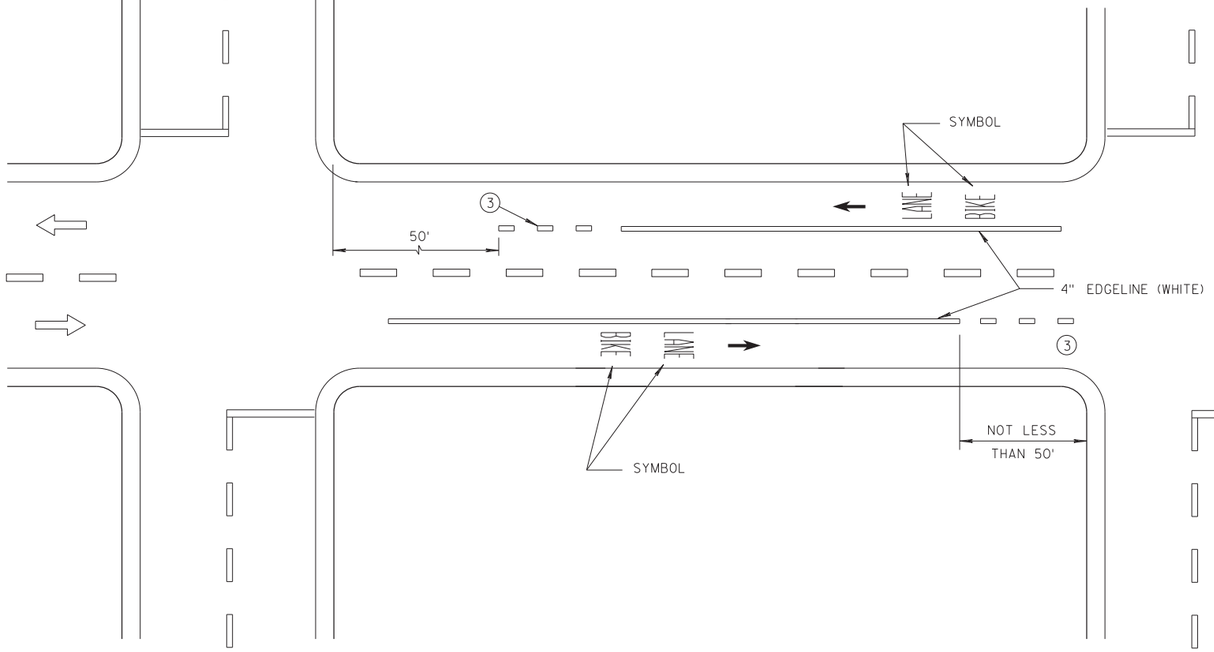
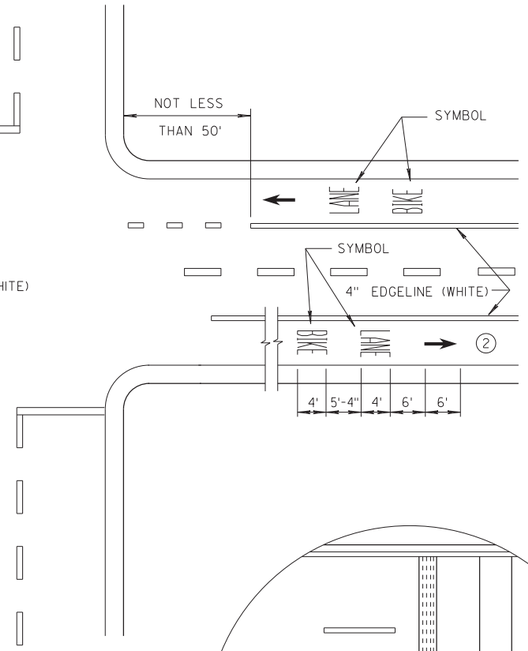
SDD 15C27 - 03a



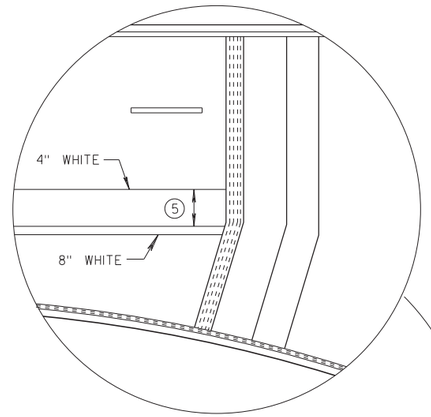


DESIGNATED BICYCLE LANE
NO PARKING

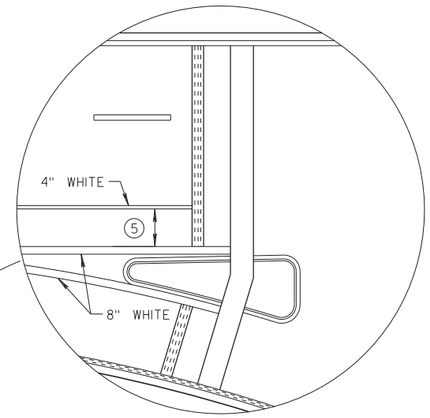
GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMODATION IS TYPICALLY 5 FEET WIDE AND A MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FEET WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

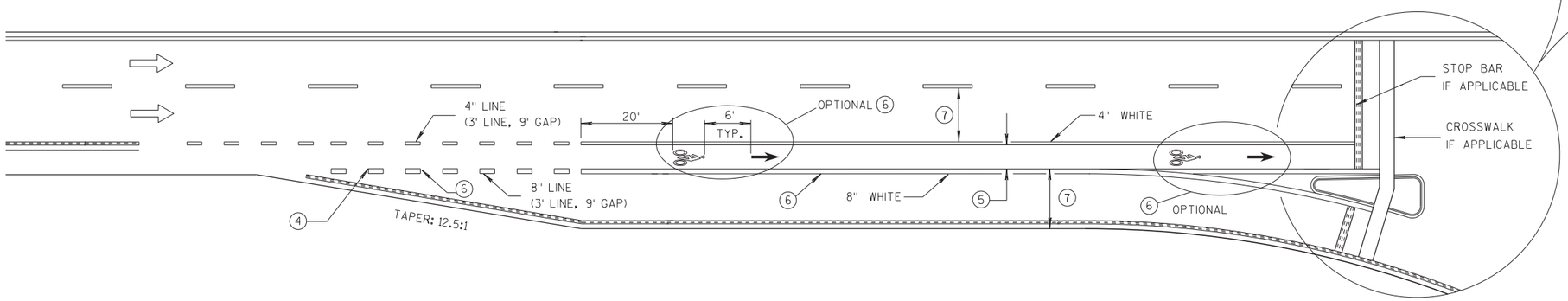
DIRECTION OF TRAVEL



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

331

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S.D.D. 15 C 29-6a

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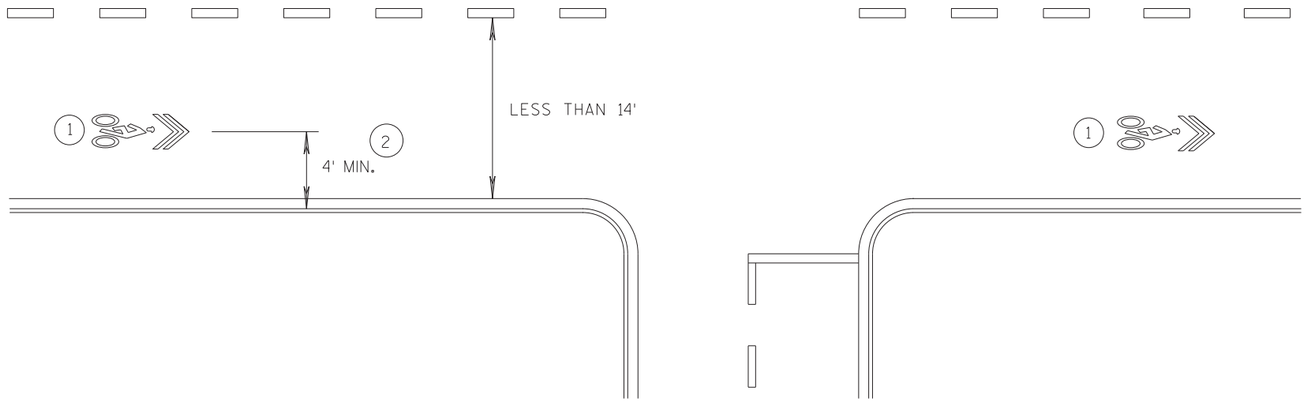
S.D.D. 15 C 29-6a

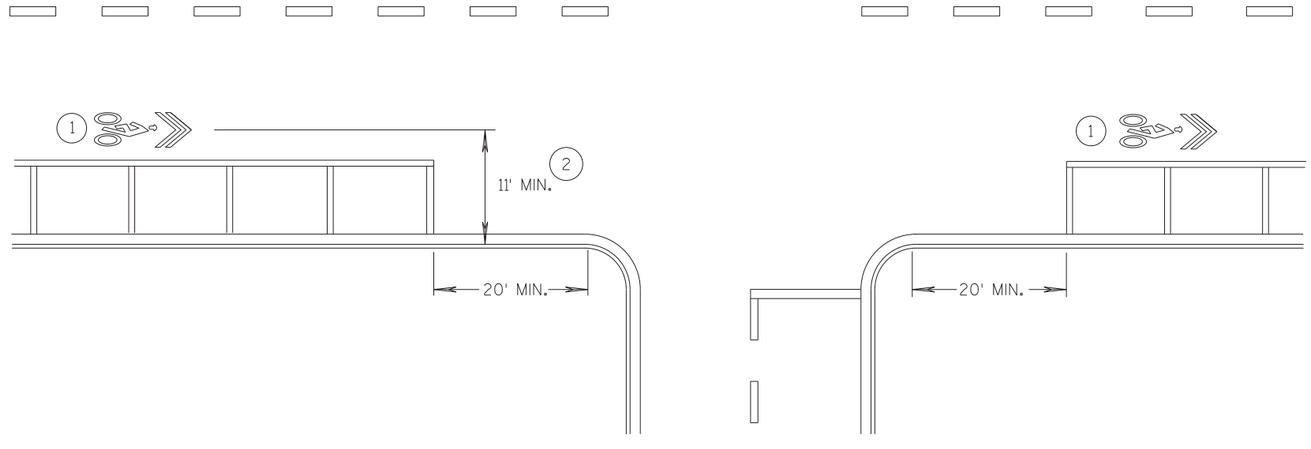
GENERAL NOTES

(1) MINIMUM OF ONE PER BLOCK, MAXIMUM OF 250 FEET.

(2) OR TO EDGE OF PAVEMENT WITHOUT CURB.



WITHOUT PARKING



WITH PARKING

PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKI ER

FHWA

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S.D.D. 15 C 29-6b

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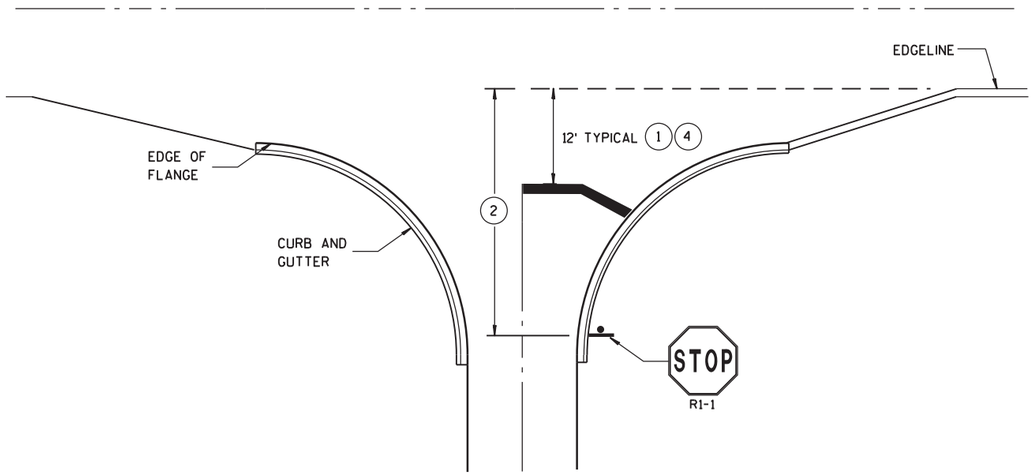
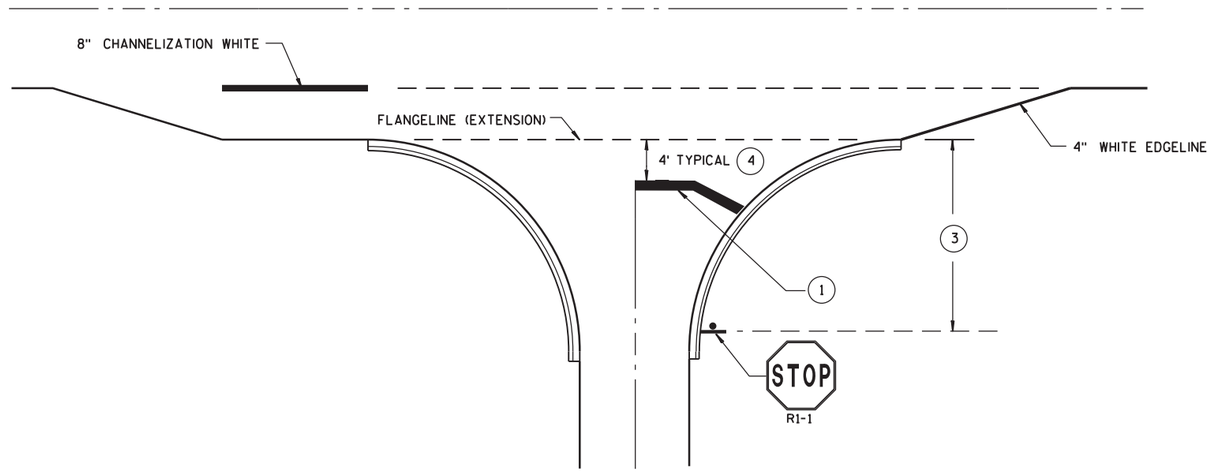
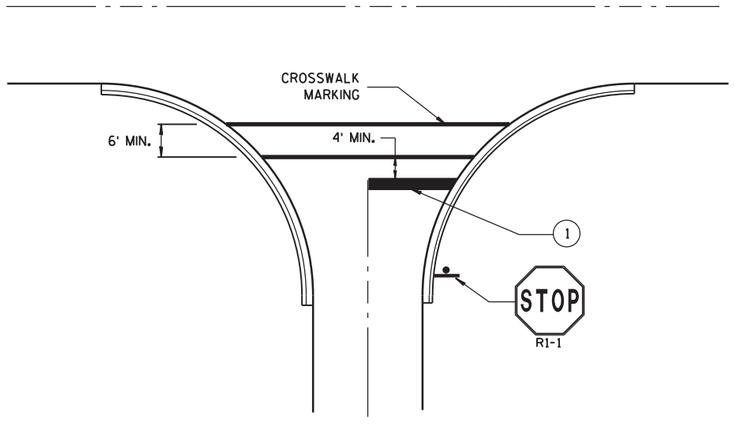
S.D.D. 15 C 29-6b



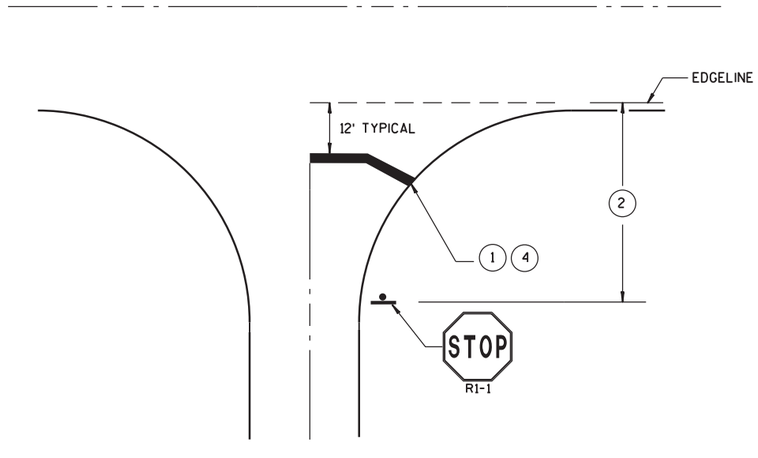
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR 333 NEER

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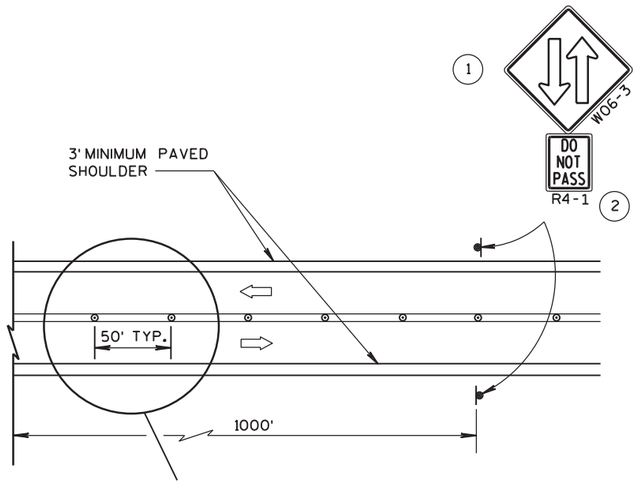
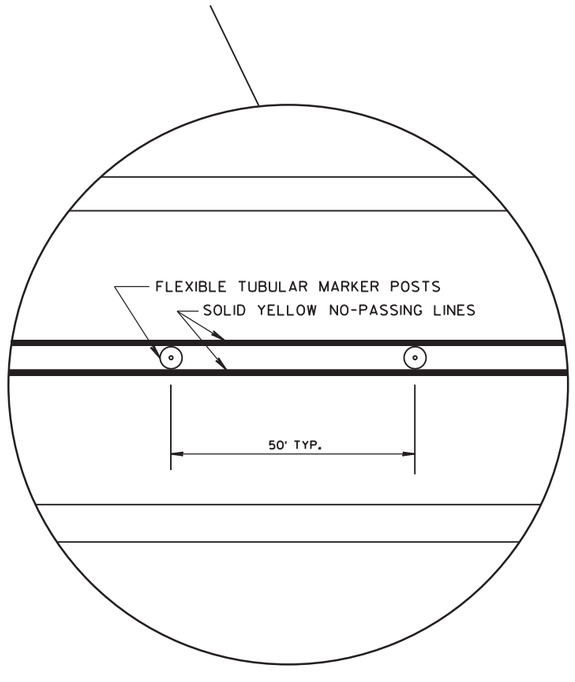


TWO LANE, TWO WAY OPERATION



LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

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

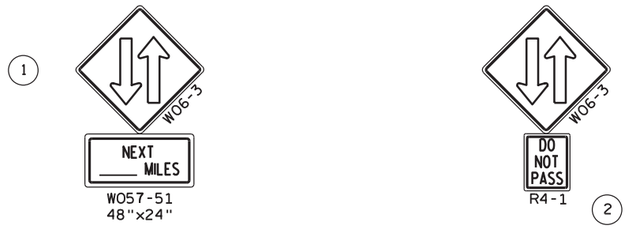
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.



THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

(2) CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE — /S/ Travis Feltes STATE TRAFFIC ENGINEER — SIGN

FHWA

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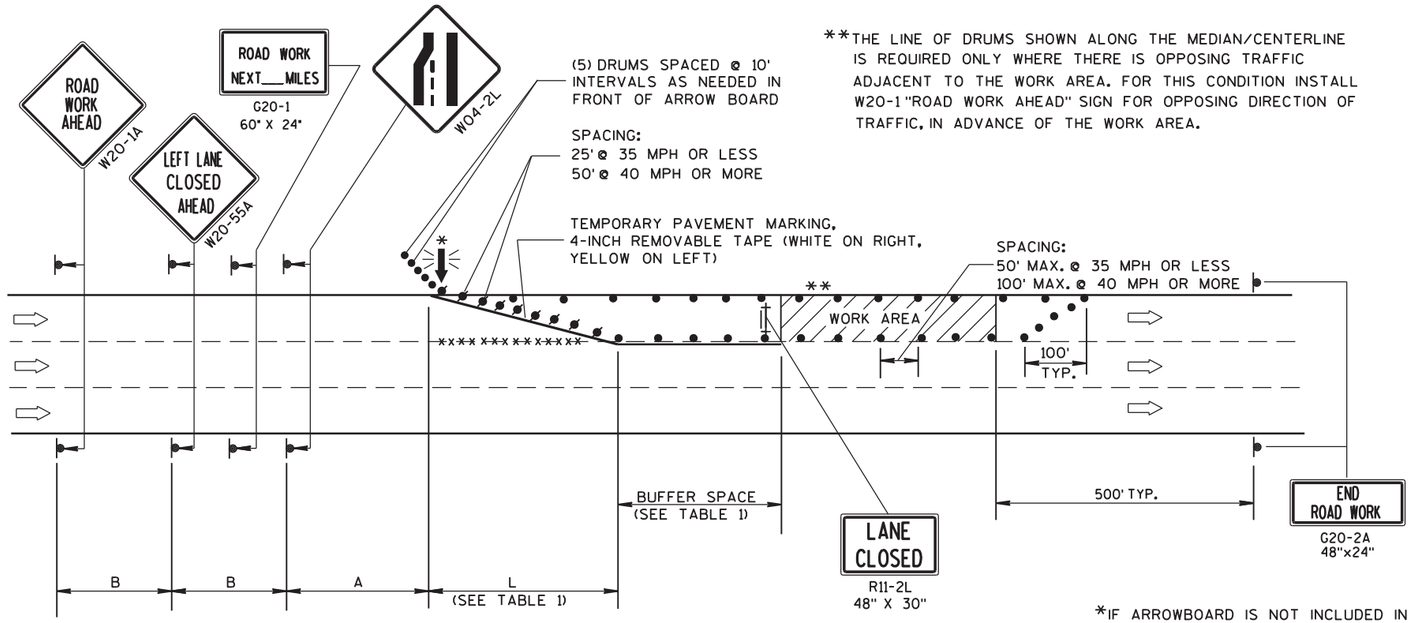

**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

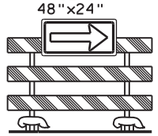

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" 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, OR THAT WILL BE PLACED IN A CLOSED LANE, 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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER

6

S.D.D. 15 D 20-4

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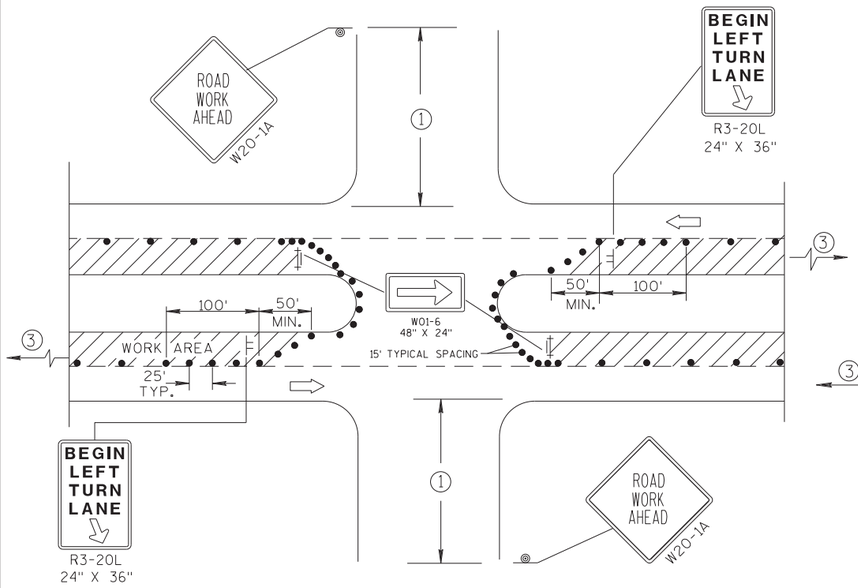
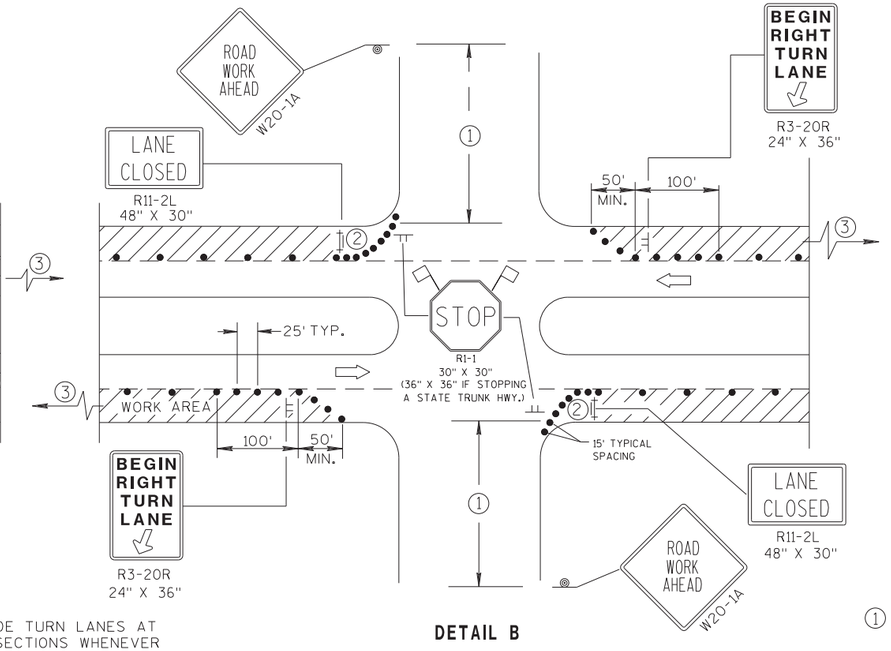
S.D.D. 15 D 20-4



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

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.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" 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.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, 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.

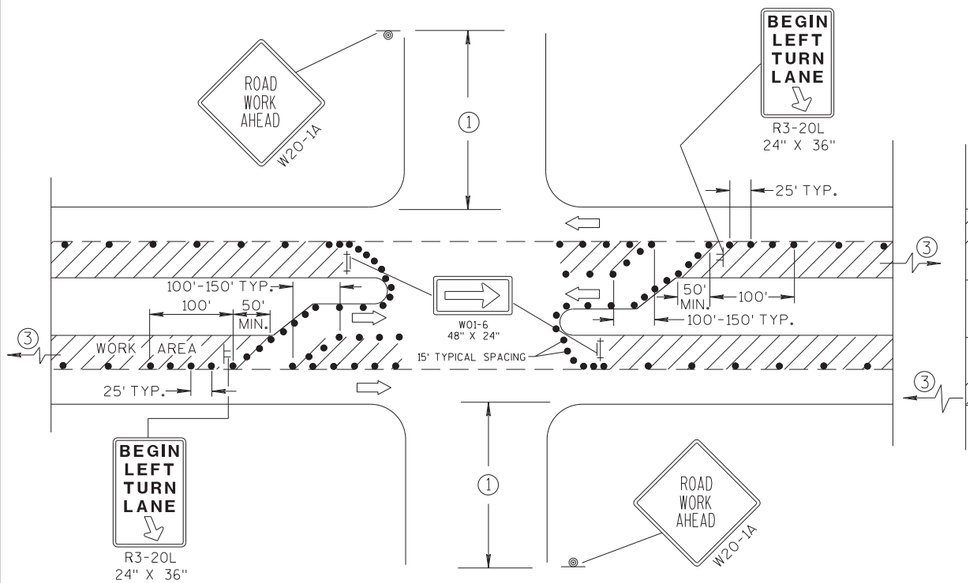
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

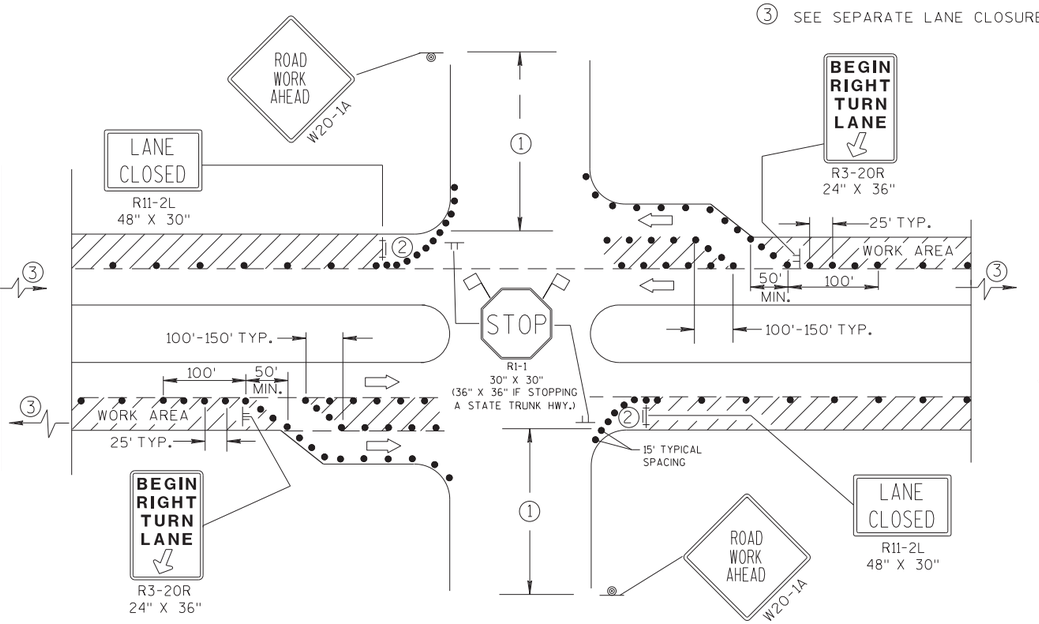
(2) ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
/S/ Andrew Heldtke WORK ZONE ENG
FHWA

336

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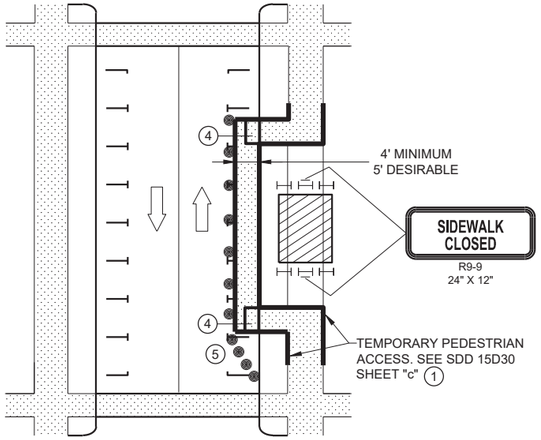
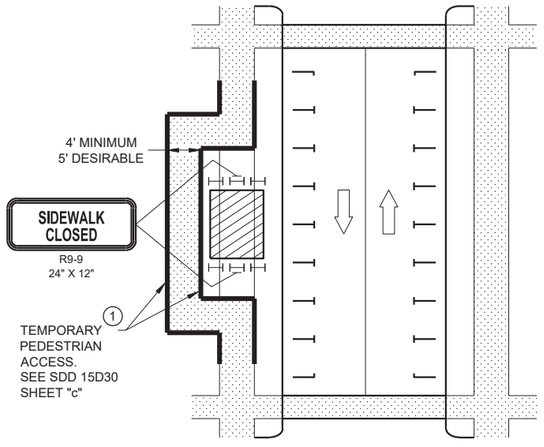
S.D.D. 15 D 21-6

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

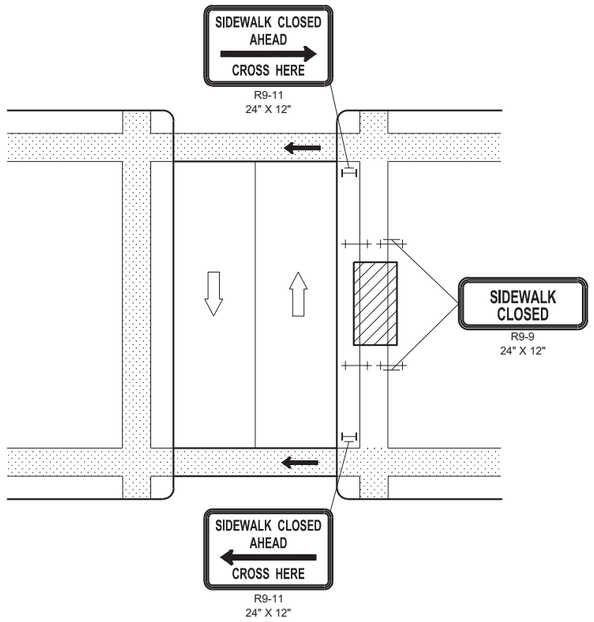


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

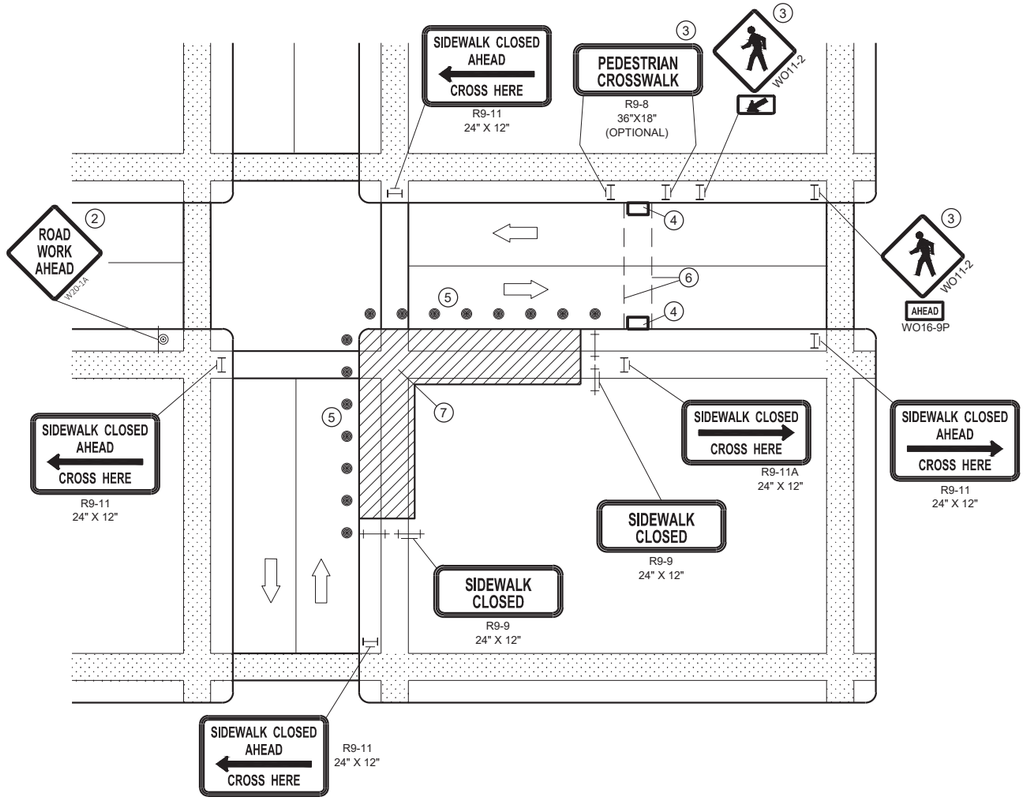
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "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.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

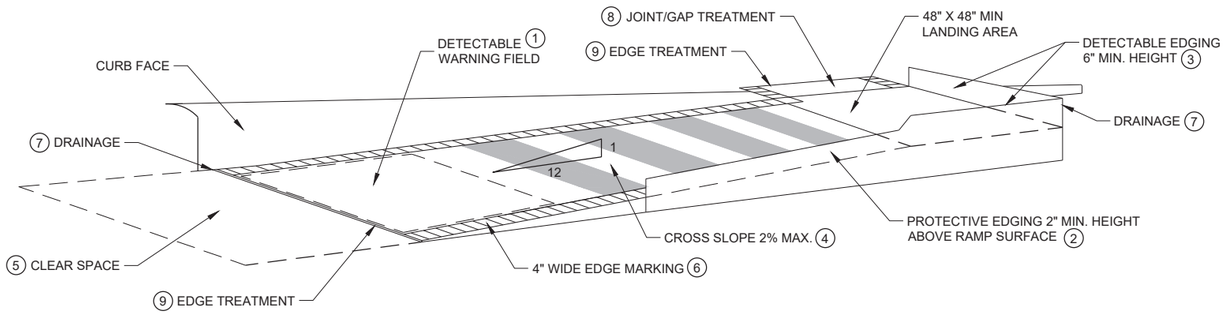
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD15D30 - 05a



TEMPORARY CURB RAMP PARALLEL TO CURB

LEGEND

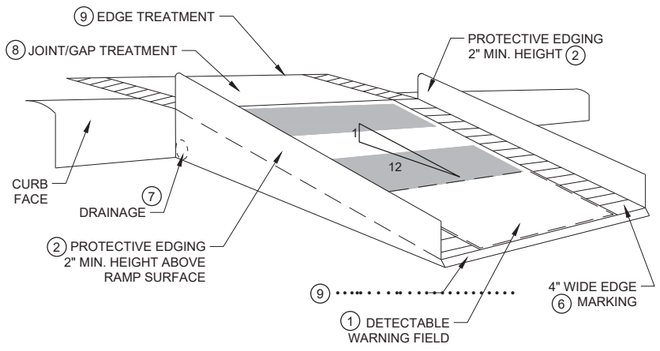
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

GENERAL NOTES

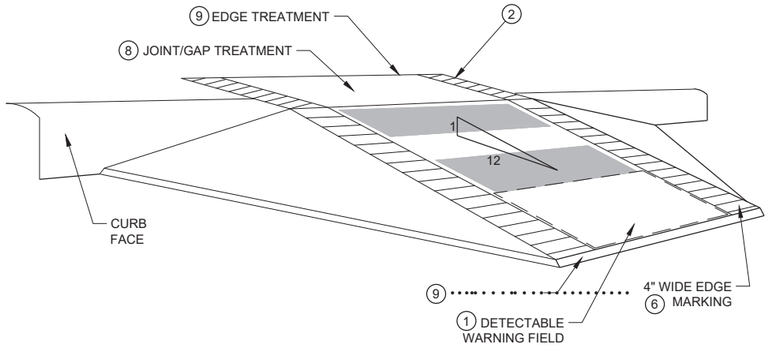
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.

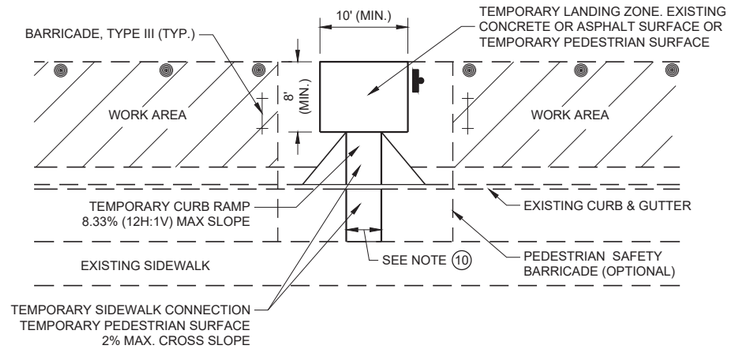


WITH PROTECTIVE EDGE



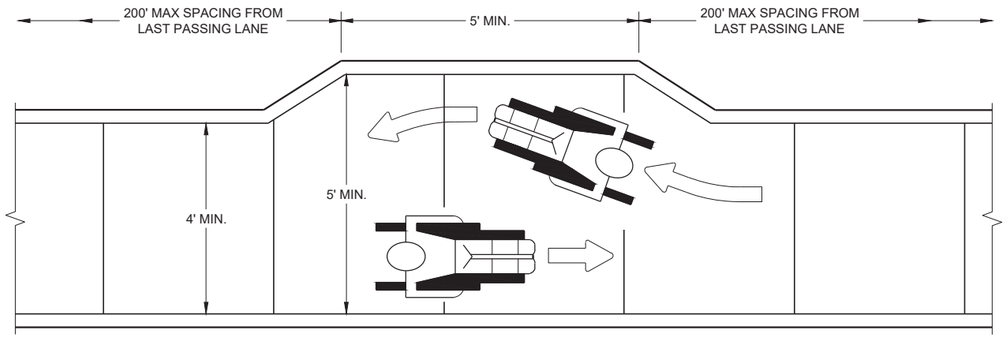
WITH SIDE APRON

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

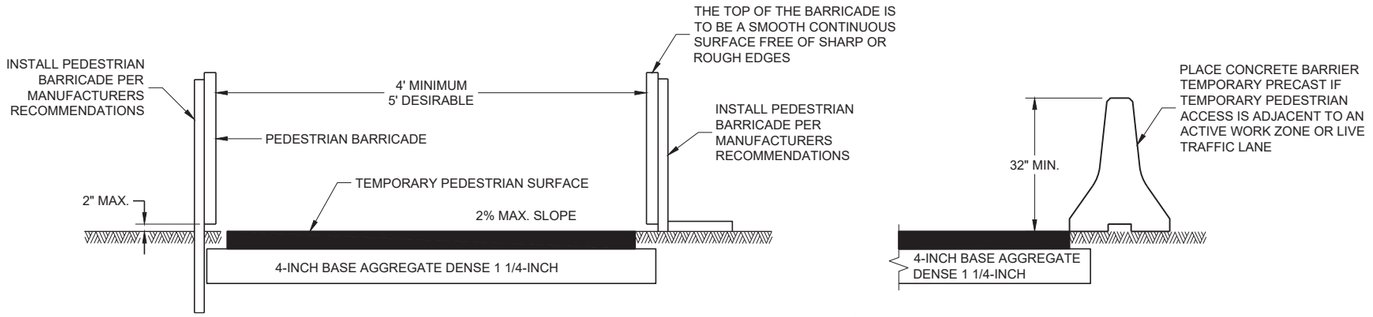


TEMPORARY BUS STOP PAD

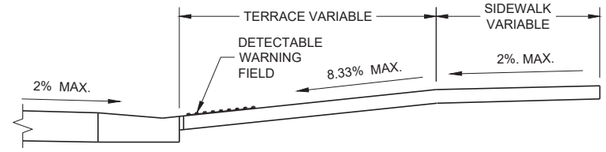
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



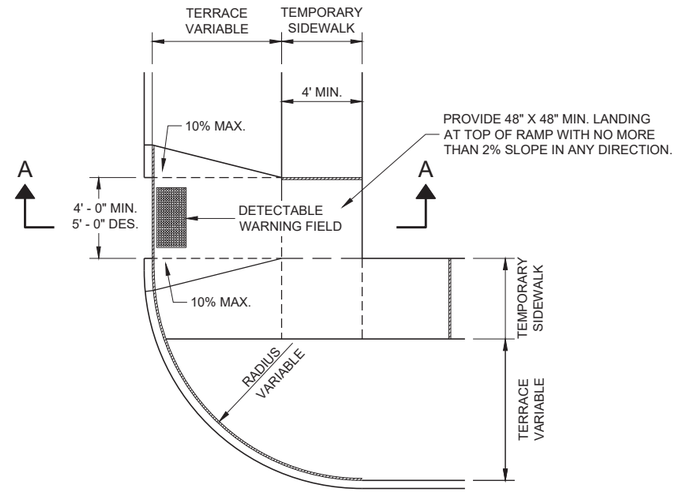
NARROW SIDEWALK PASSING DETAIL



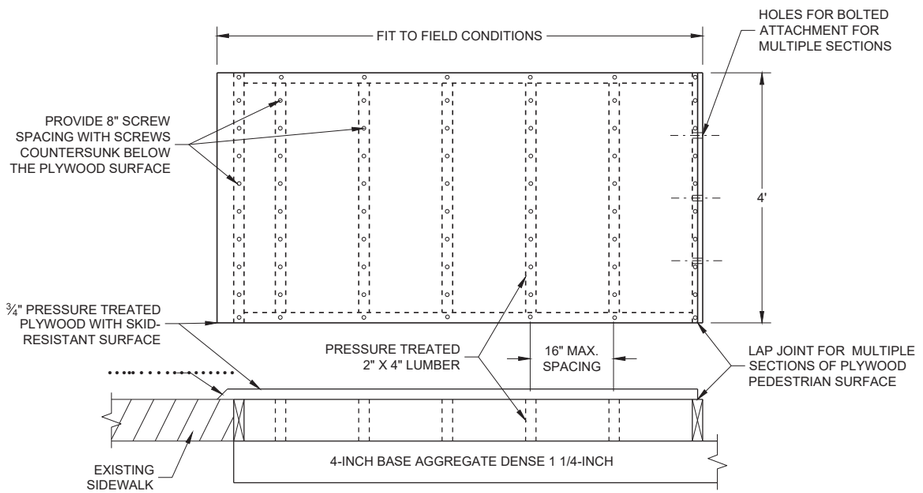
TEMPORARY PEDESTRIAN ACCESS



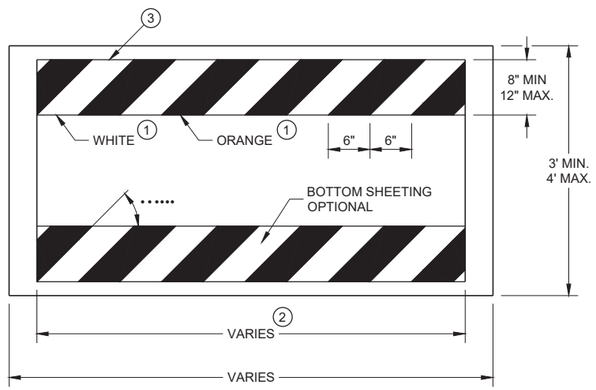
SECTION A - A



PLAN VIEW
TEMPORARY TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
3. PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 339

FHWA

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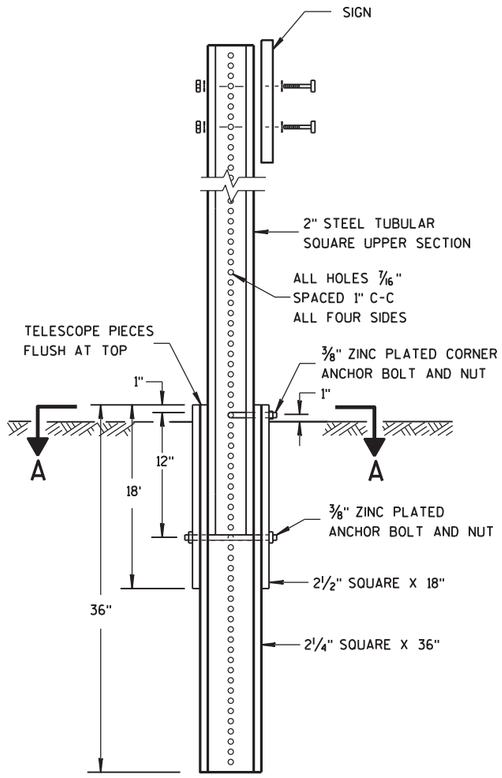
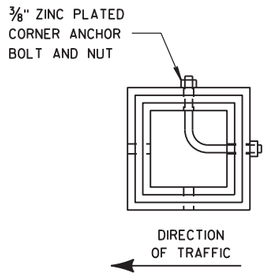
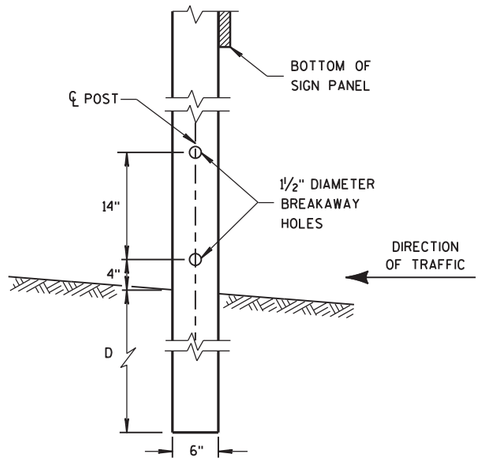
SDD 15D30 - 05c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



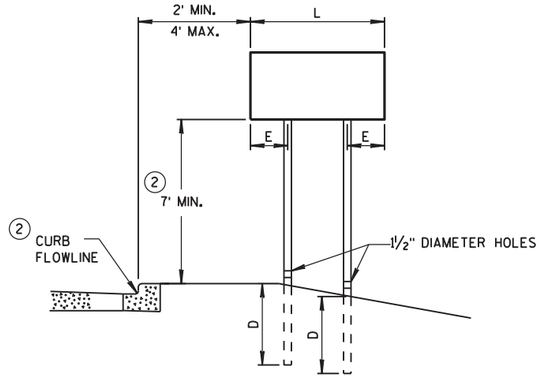
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

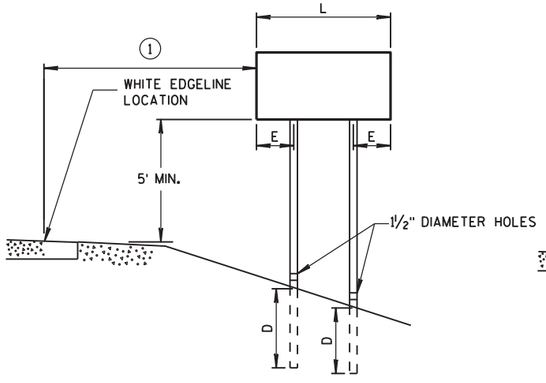
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

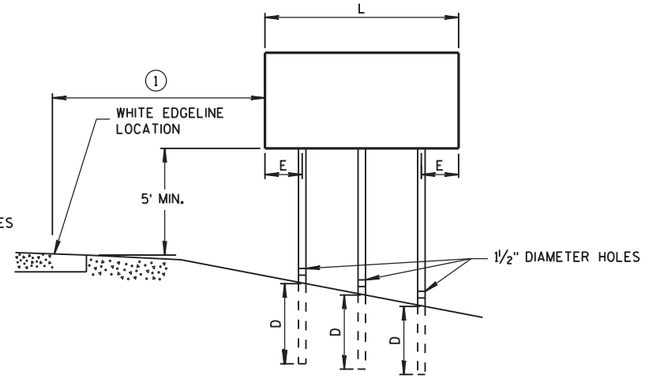
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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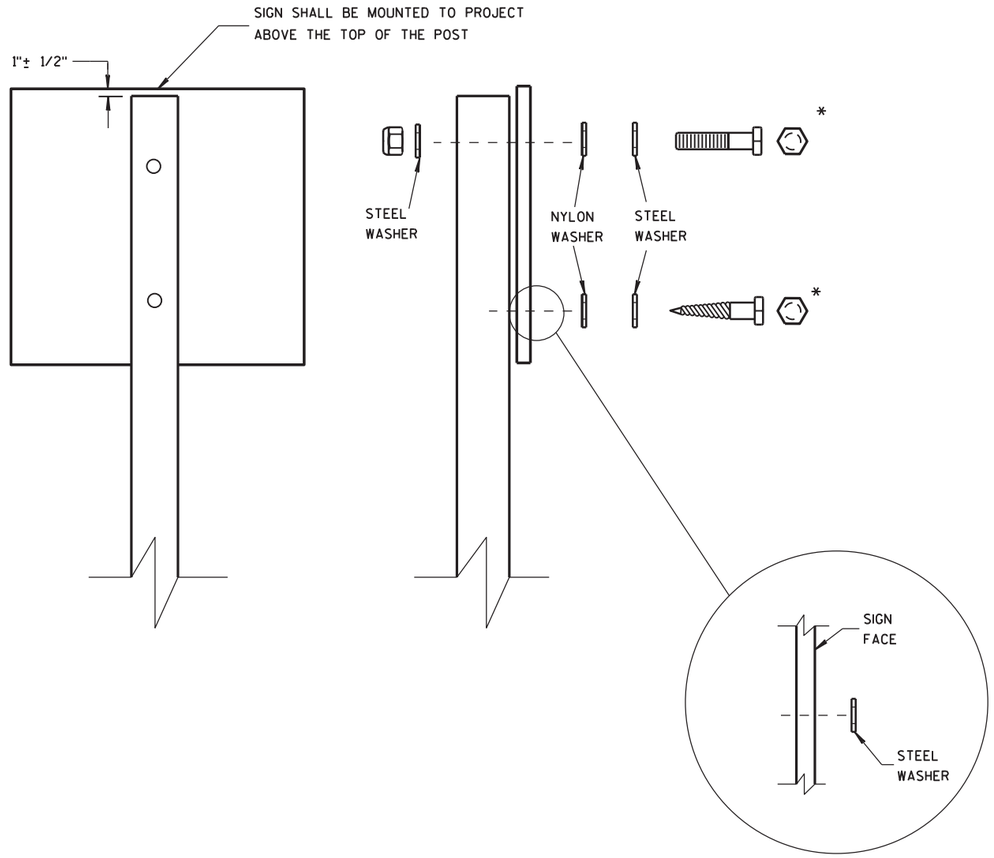
S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

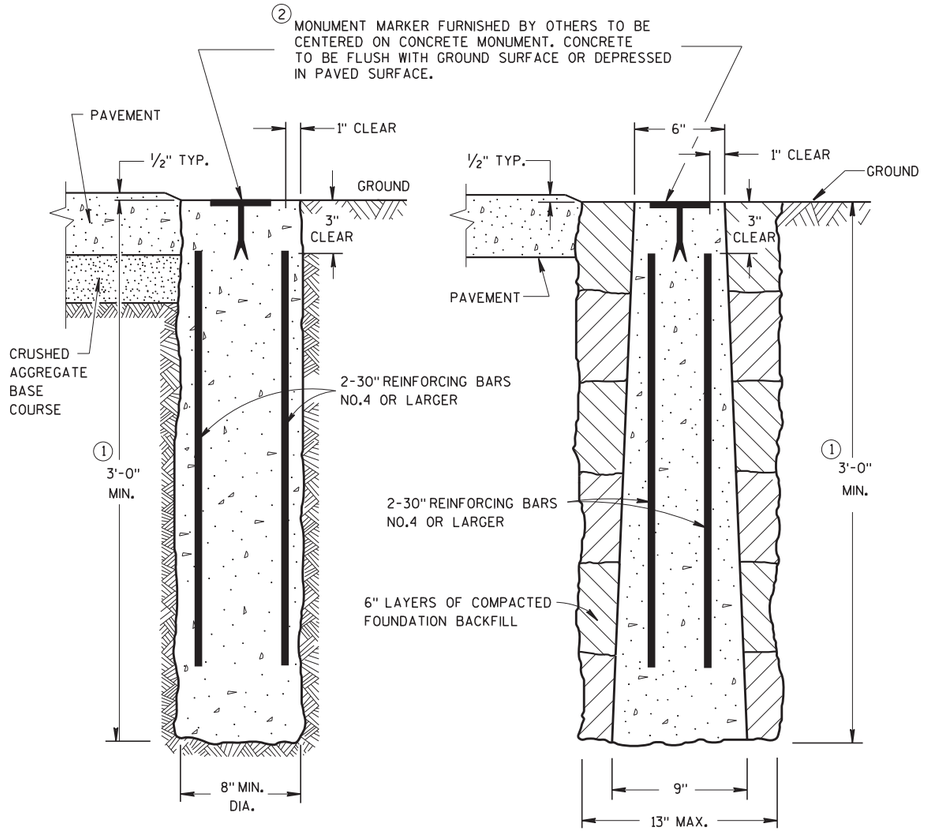
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

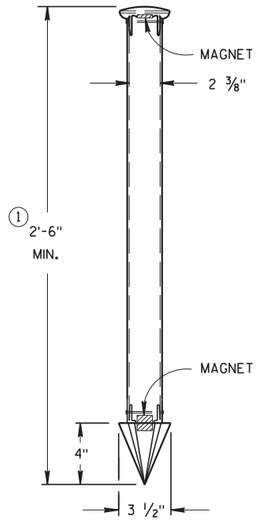


CAST-IN-PLACE

PRECAST

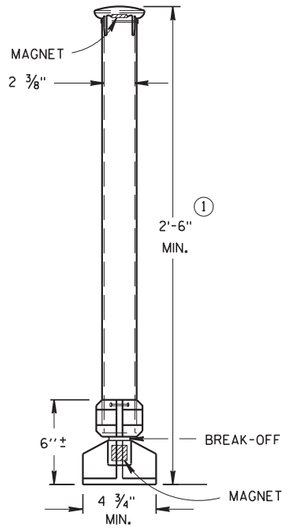
CONCRETE MONUMENTS

TYPE A



TYPE C

DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

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 OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

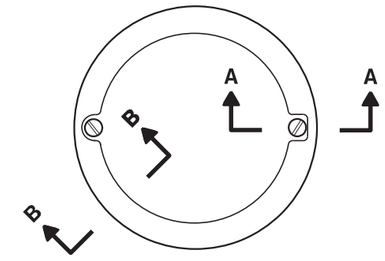
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

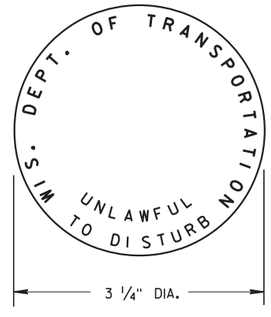
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

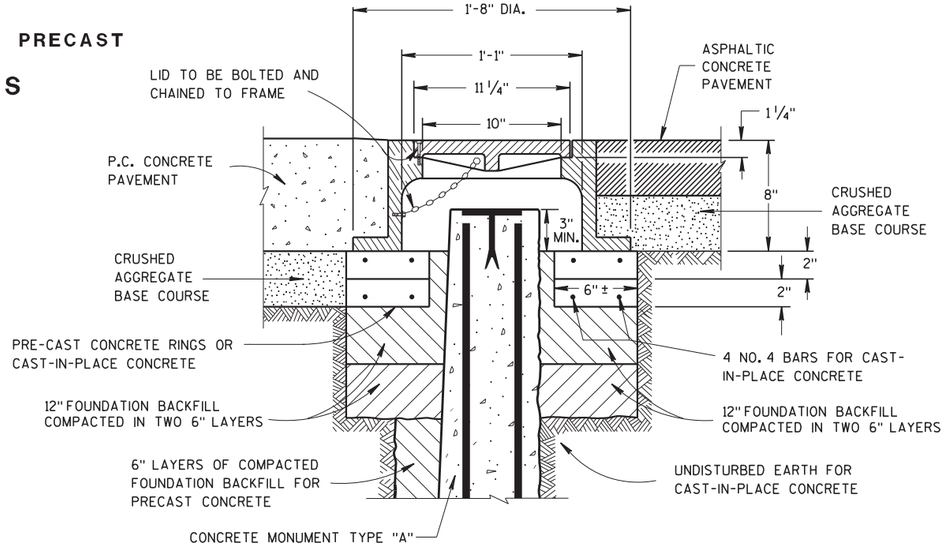


TOP VIEW



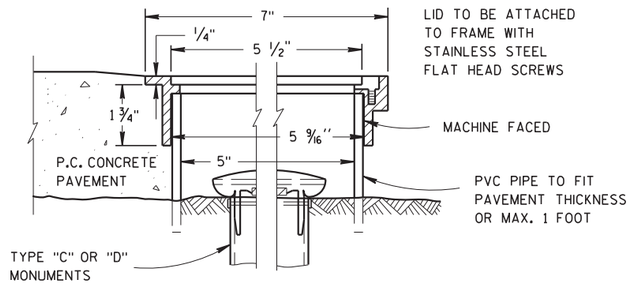
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C", & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

6

S.D.D. 16 A 1-7

TEUTONIA AVENUE

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
149+77 AH	14977.00	0.00	120.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150+00	15000.00	23.00	123.38	0.00	0.00	0.00	103.80	0.00	0.00	0.00	103.80	0.00	0.00	0.00	103.80
150+50	15050.00	50.00	124.92	0.00	0.00	0.00	227.55	0.00	0.00	0.00	227.55	0.00	0.00	0.00	227.55
150+87	15087.00	37.00	125.74	0.00	0.00	0.00	171.75	0.00	0.00	0.00	399.30	0.00	0.00	0.00	399.30
151+00	15100.00	13.00	122.14	0.00	0.00	0.00	59.67	0.00	0.00	0.00	458.97	0.00	0.00	0.00	458.97
151+50	15150.00	50.00	126.29	0.00	0.00	0.00	230.03	0.00	0.00	0.00	689.00	0.00	0.00	0.00	689.00
151+53	15153.00	3.00	120.98	0.00	0.00	0.00	13.74	0.00	0.00	0.00	702.74	0.00	0.00	0.00	702.74
152+00	15200.00	47.00	118.56	0.00	0.10	0.00	208.49	0.00	0.09	0.00	911.23	0.10	0.00	0.00	911.12
152+19	15219.00	19.00	121.35	0.00	0.00	0.00	84.41	0.00	0.04	0.00	995.64	0.15	0.00	0.00	995.49
152+42	15242.00	23.00	127.68	0.00	0.06	0.00	106.07	0.00	0.03	0.00	1101.71	0.18	0.00	0.00	1101.53
152+50	15250.00	8.00	127.58	0.00	0.15	0.00	37.82	0.00	0.03	0.00	1139.52	0.21	0.00	0.00	1139.31
152+82	15282.00	32.00	71.80	0.00	0.92	0.00	118.15	0.00	0.63	0.00	1257.67	0.98	0.00	0.00	1256.70
153+00	15300.00	18.00	59.57	0.00	1.22	0.00	43.79	0.00	0.71	0.00	1301.46	1.83	0.00	0.00	1299.63
153+50	15350.00	50.00	59.35	0.00	0.00	0.00	110.11	0.00	1.13	0.00	1411.58	3.19	0.00	0.00	1408.39
154+00	15400.00	50.00	58.72	0.00	3.44	0.00	109.32	0.00	3.19	0.00	1520.90	7.01	0.00	0.00	1513.89
154+50	15450.00	50.00	59.47	0.00	0.01	0.00	109.44	0.00	3.19	0.00	1630.34	10.84	0.00	0.00	1619.49
155+00	15500.00	50.00	62.02	0.00	0.00	0.00	112.49	0.00	0.01	0.00	1742.83	10.85	0.00	0.00	1731.97
155+50	15550.00	50.00	60.36	0.00	1.63	0.00	113.31	0.00	1.51	0.00	1856.14	12.66	0.00	0.00	1843.48
155+67	15567.00	17.00	66.00	0.00	1.41	0.00	39.78	0.00	0.96	0.00	1895.92	13.81	0.00	0.00	1882.11
156+00	15600.00	33.00	57.76	0.00	1.49	0.00	75.63	0.00	1.77	0.00	1971.55	15.94	0.00	0.00	1955.61
156+50	15650.00	50.00	59.38	0.00	0.91	0.00	108.46	0.00	2.22	0.00	2080.01	18.61	0.00	0.00	2061.41
157+00	15700.00	50.00	50.69	0.00	1.04	0.00	101.92	0.00	1.81	0.00	2181.93	20.77	0.00	0.00	2161.16
157+50	15750.00	50.00	62.73	0.00	1.35	0.00	105.02	0.00	2.21	0.00	2286.95	23.43	0.00	0.00	2263.52
158+00	15800.00	50.00	65.17	0.00	1.22	0.00	118.43	0.00	2.38	0.00	2405.38	26.28	0.00	0.00	2379.09
158+50	15850.00	50.00	59.42	0.00	1.18	0.00	115.36	0.00	2.22	0.00	2520.74	28.95	0.00	0.00	2491.79
159+00	15900.00	50.00	59.13	0.00	1.32	0.00	109.77	0.00	2.31	0.00	2630.51	31.73	0.00	0.00	2598.78
159+50	15950.00	50.00	58.75	0.00	0.57	0.00	109.15	0.00	1.75	0.00	2739.65	33.83	0.00	0.00	2705.82
160+00	16000.00	50.00	53.85	0.00	0.90	0.00	104.26	0.00	1.36	0.00	2843.91	35.46	0.00	0.00	2808.45
160+50	16050.00	50.00	58.05	0.00	0.04	0.00	103.61	0.00	0.87	0.00	2947.52	36.51	0.00	0.00	2911.02
161+00	16100.00	50.00	62.02	0.00	0.00	0.00	111.18	0.00	0.04	0.00	3058.70	36.55	0.00	0.00	3022.15
161+50	16150.00	50.00	68.58	0.00	0.55	0.00	120.93	0.00	0.51	0.00	3179.63	37.16	0.00	0.00	3142.46
162+00	16200.00	50.00	63.20	0.00	1.25	0.00	122.02	0.00	1.67	0.00	3301.64	39.16	0.00	0.00	3262.48
162+27	16227.00	27.00	72.40	0.00	2.35	0.00	67.80	0.00	1.80	0.00	3369.44	41.32	0.00	0.00	3328.12
162+50	16250.00	23.00	61.01	0.00	2.41	0.00	56.82	0.00	2.03	0.00	3426.27	43.76	0.00	0.00	3382.51
162+91	16291.00	41.00	71.77	0.00	2.33	0.00	100.81	0.00	3.60	0.00	3527.08	48.07	0.00	0.00	3479.01
163+00	16300.00	9.00	74.81	0.00	3.43	0.00	24.43	0.00	0.96	0.00	3551.51	49.23	0.00	0.00	3502.29
163+50	16350.00	50.00	73.45	0.00	3.07	0.00	137.28	0.00	6.02	0.00	3688.79	56.45	0.00	0.00	3632.34
163+50	16350.00	0.00	73.43	0.00	3.06	0.00	0.00	0.00	0.00	0.00	3688.79	56.45	0.00	0.00	3632.34
164+00	16400.00	50.00	67.64	0.00	0.85	0.00	130.62	0.00	3.62	0.00	3819.41	60.79	0.00	0.00	3758.62
164+50	16450.00	50.00	72.23	0.00	1.46	0.00	129.51	0.00	2.14	0.00	3948.92	63.36	0.00	0.00	3885.56
164+76	16476.00	26.00	80.04	0.00	2.43	0.00	73.32	0.00	1.87	0.00	4022.23	65.61	0.00	0.00	3956.63
165+00	16500.00	24.00	68.30	0.00	2.07	0.00	65.93	0.00	2.00	0.00	4088.16	68.01	0.00	0.00	4020.16
165+50	16550.00	50.00	63.84	0.00	1.54	0.00	122.35	0.00	3.34	0.00	4210.51	72.02	0.00	0.00	4138.50
166+00	16600.00	50.00	62.60	0.00	1.81	0.00	117.07	0.00	3.10	0.00	4327.59	75.74	0.00	0.00	4251.85
166+35	16635.00	35.00	82.44	0.00	0.01	0.00	94.01	0.00	1.18	0.00	4421.60	77.16	0.00	0.00	4344.44
166+50	16650.00	15.00	74.96	0.00	0.01	0.00	43.72	0.00	0.01	0.00	4465.32	77.16	0.00	0.00	4388.16

PROJECT NO: 2080-00-72	HWY: N TEUTONIA AVE	COUNTY: MILWAUKEE	EARTHWORK DATA: N TEUTONIA AVE	SHEET: 344	E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Quanities and Estimates\90 percent\EW_DATA_SHEETS.ppt PLOT DATE : 7/31/2019 8:54:01 AM PLOT NAME : 090101_EW1 PLOT SCALE : 1:1
PLOT BY : nstyka

TEUTONIA AVENUE **(CONTINUED)**

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3	Cumulative Vol (CY) Reduced EBS In Fill 0.8	Mass Ordinate
							Note 1	Note 2	Note 3				Note 4	Note 5	Note 6
167+00	16700.00	50.00	62.89	0.00	0.14	0.00	127.64	0.00	0.14	0.00	4592.96	77.33	0.00	0.00	4515.63
167+50	16750.00	50.00	61.47	0.00	0.52	0.00	115.15	0.00	0.61	0.00	4708.11	78.06	0.00	0.00	4630.04
167+90	16790.00	40.00	65.36	0.00	1.46	0.00	93.95	0.00	1.47	0.00	4802.05	79.82	0.00	0.00	4722.23
168+00	16800.00	10.00	59.49	0.00	1.91	0.00	23.12	0.00	0.62	0.00	4825.17	80.57	0.00	0.00	4744.60
168+50	16850.00	50.00	107.37	0.00	2.50	0.00	154.50	0.00	4.08	0.00	4979.67	85.47	0.00	0.00	4894.20
169+00	16900.00	50.00	97.79	0.00	3.58	0.00	189.96	0.00	5.63	0.00	5169.64	92.23	0.00	0.00	5077.41
169+50	16950.00	50.00	101.84	0.00	2.97	0.00	184.84	0.00	6.06	0.00	5354.48	99.50	0.00	0.00	5254.98
169+80	16980.00	30.00	113.23	0.00	2.86	0.00	119.48	0.00	3.24	0.00	5473.96	103.39	0.00	0.00	5370.57
170+00	17000.00	20.00	102.91	0.00	3.04	0.00	80.05	0.00	2.19	0.00	5554.01	106.01	0.00	0.00	5448.00
170+50	17050.00	50.00	104.92	0.00	2.91	0.00	192.44	0.00	5.51	0.00	5746.45	112.62	0.00	0.00	5633.83
171+00	17100.00	50.00	110.79	0.00	0.08	0.00	199.73	0.00	2.77	0.00	5946.18	115.95	0.00	0.00	5830.23
171+50	17150.00	50.00	108.63	0.00	1.86	0.00	203.17	0.00	1.80	0.00	6149.35	118.10	0.00	0.00	6031.25
172+00	17200.00	50.00	73.71	0.00	2.01	0.00	168.83	0.00	3.58	0.00	6318.18	122.40	0.00	0.00	6195.78
172+50	17250.00	50.00	69.87	0.00	2.18	0.00	132.94	0.00	3.88	0.00	6451.13	127.06	0.00	0.00	6324.07
173+00	17300.00	50.00	60.72	0.00	2.24	0.00	120.92	0.00	4.09	0.00	6572.04	131.97	0.00	0.00	6440.07
173+50	17350.00	50.00	63.90	0.00	2.43	0.00	115.39	0.00	4.32	0.00	6687.43	137.16	0.00	0.00	6550.27
174+00	17400.00	50.00	59.70	0.00	3.18	0.00	114.44	0.00	5.19	0.00	6801.88	143.39	0.00	0.00	6658.48
174+50	17450.00	50.00	61.99	0.00	2.10	0.00	112.68	0.00	4.89	0.00	6914.55	149.26	0.00	0.00	6765.29
174+88	17488.00	38.00	75.63	0.00	1.15	0.00	96.84	0.00	2.29	0.00	7011.40	152.00	0.00	0.00	6859.39
175+00	17500.00	12.00	71.47	0.00	0.54	0.00	32.69	0.00	0.38	0.00	7044.08	152.45	0.00	0.00	6891.63
175+50	17550.00	50.00	64.92	0.00	0.00	0.00	126.29	0.00	0.50	0.00	7170.37	153.05	0.00	0.00	7017.32
175+83	17583.00	33.00	78.07	0.00	0.00	0.00	87.38	0.00	0.00	0.00	7257.75	153.05	0.00	0.00	7104.70
176+00	17600.00	17.00	68.85	0.00	0.35	0.00	46.25	0.00	0.11	0.00	7304.01	153.19	0.00	0.00	7150.82
176+50	17650.00	50.00	71.52	0.00	0.18	0.00	129.97	0.00	0.49	0.00	7433.98	153.77	0.00	0.00	7280.21
176+78	17678.00	28.00	76.20	0.00	1.48	0.00	76.60	0.00	0.86	0.00	7510.57	154.81	0.00	0.00	7355.77
177+00	17700.00	22.00	63.01	0.00	2.21	0.00	56.72	0.00	1.50	0.00	7567.29	156.61	0.00	0.00	7410.68
177+21	17721.00	21.00	69.86	0.00	2.41	0.00	51.67	0.00	1.80	0.00	7618.96	158.77	0.00	0.00	7460.19
177+50	17750.00	29.00	58.87	0.00	2.75	0.00	69.13	0.00	2.77	0.00	7688.09	162.09	0.00	0.00	7526.00
177+71	17771.00	21.00	63.43	0.00	3.18	0.00	47.56	0.00	2.31	0.00	7735.66	164.86	0.00	0.00	7570.80
178+00	17800.00	29.00	54.17	0.00	3.10	0.00	63.16	0.00	3.37	0.00	7798.81	168.91	0.00	0.00	7629.90
178+50	17850.00	50.00	55.56	0.00	2.40	0.00	101.60	0.00	5.09	0.00	7900.41	175.02	0.00	0.00	7725.40
179+00	17900.00	50.00	64.51	0.00	0.25	0.00	111.18	0.00	2.45	0.00	8011.59	177.96	0.00	0.00	7833.63
179+50	17950.00	50.00	59.62	0.00	2.28	0.00	114.94	0.00	2.34	0.00	8126.52	180.77	0.00	0.00	7945.75
180+00	18000.00	50.00	49.89	0.00	4.12	0.00	101.40	0.00	5.93	0.00	8227.92	187.88	0.00	0.00	8040.04
180+50	18050.00	50.00	55.79	0.00	3.53	0.00	97.85	0.00	7.08	0.00	8325.77	196.38	0.00	0.00	8129.39
180+63	18063.00	13.00	60.47	0.00	3.42	0.00	27.99	0.00	1.67	0.00	8353.76	198.39	0.00	0.00	8155.37
181+00	18100.00	37.00	58.55	0.00	2.66	0.00	81.55	0.00	4.17	0.00	8435.31	203.39	0.00	0.00	8231.92
181+31	18131.00	31.00	68.49	0.00	1.84	0.00	72.93	0.00	2.58	0.00	8508.24	206.49	0.00	0.00	8301.75
181+50	18150.00	19.00	73.16	0.00	1.74	0.00	49.84	0.00	1.26	0.00	8558.08	208.00	0.00	0.00	8350.08
182+00	18200.00	50.00	68.36	0.00	0.93	0.00	131.04	0.00	2.47	0.00	8689.12	210.97	0.00	0.00	8478.15
182+50	18250.00	50.00	66.12	0.00	0.96	0.00	124.52	0.00	1.75	0.00	8813.64	213.07	0.00	0.00	8600.57
183+00	18300.00	50.00	60.59	0.00	1.38	0.00	117.32	0.00	2.17	0.00	8930.96	215.67	0.00	0.00	8715.29
183+50	18350.00	50.00	62.26	0.00	1.18	0.00	113.75	0.00	2.37	0.00	9044.71	218.51	0.00	0.00	8826.20
184+00	18400.00	50.00	66.59	0.00	0.27	0.00	119.31	0.00	1.34	0.00	9164.02	220.13	0.00	0.00	8943.89
184+50	18450.00	50.00	69.04	0.00	0.30	0.00	125.58	0.00	0.53	0.00	9289.60	220.76	0.00	0.00	9068.84
184+64	18464.00	14.00	79.60	0.00	0.48	0.00	38.54	0.00	0.20	0.00	9328.14	221.00	0.00	0.00	9107.14

TEUTONIA AVENUE (CONTINUED)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
185+00	18500.00	36.00	67.56	0.00	0.91	0.00	98.11	0.00	0.93	0.00	9426.24	222.11	0.00	0.00	9204.13
185+50	18550.00	50.00	65.00	0.00	0.76	0.00	122.74	0.00	1.55	0.00	9548.99	223.97	0.00	0.00	9325.02
186+00	18600.00	50.00	61.25	0.00	0.00	0.00	116.90	0.00	0.70	0.00	9665.88	224.81	0.00	0.00	9441.07
186+50	18650.00	50.00	73.15	0.00	0.00	0.00	124.44	0.00	0.00	0.00	9790.33	224.81	0.00	0.00	9565.52
187+00	18700.00	50.00	74.26	0.00	1.26	0.00	136.49	0.00	1.17	0.00	9926.82	226.21	0.00	0.00	9700.61
187+50	18750.00	50.00	152.50	0.00	4.71	0.00	209.96	0.00	5.53	0.00	10136.78	232.85	0.00	0.00	9903.94
188+00	18800.00	50.00	137.45	0.00	0.00	0.00	268.47	0.00	4.36	0.00	10405.25	238.08	0.00	0.00	10167.17
188+50	18850.00	50.00	139.35	0.00	0.00	0.00	256.30	0.00	0.00	0.00	10661.55	238.08	0.00	0.00	10423.47
189+00	18900.00	50.00	140.48	0.00	0.00	0.00	259.10	0.00	0.00	0.00	10920.65	238.08	0.00	0.00	10682.57
189+50	18950.00	50.00	121.80	0.00	0.52	0.00	242.85	0.00	0.48	0.00	11163.50	238.66	0.00	0.00	10924.85
189+88	18988.00	38.00	118.08	0.00	0.09	0.00	168.80	0.00	0.43	0.00	11332.31	239.17	0.00	0.00	11093.14
190+00	19000.00	12.00	117.49	0.00	0.11	0.00	52.35	0.00	0.04	0.00	11384.66	239.23	0.00	0.00	11145.43
190+50	19050.00	50.00	106.52	0.00	0.25	0.00	207.42	0.00	0.33	0.00	11592.07	239.63	0.00	0.00	11352.45
191+00	19100.00	50.00	64.70	0.00	0.00	0.00	158.54	0.00	0.23	0.00	11750.61	239.90	0.00	0.00	11510.71
191+04	19104.00	4.00	63.77	0.00	0.00	0.00	9.52	0.00	0.00	0.00	11760.13	239.90	0.00	0.00	11520.22
191+50	19150.00	46.00	50.90	0.00	0.14	0.00	97.68	0.00	0.12	0.00	11857.81	240.05	0.00	0.00	11617.76
191+73	19173.00	23.00	55.80	0.00	0.08	0.00	45.45	0.00	0.09	0.00	11903.26	240.16	0.00	0.00	11663.10
192+00	19200.00	27.00	55.12	0.00	0.33	0.00	55.46	0.00	0.21	0.00	11958.72	240.41	0.00	0.00	11718.31
192+50	19250.00	50.00	54.39	0.00	0.00	0.00	101.40	0.00	0.31	0.00	12060.11	240.77	0.00	0.00	11819.34
193+00	19300.00	50.00	45.24	0.00	0.40	0.00	92.25	0.00	0.37	0.00	12152.36	241.22	0.00	0.00	11911.15
193+50	19350.00	50.00	46.36	0.00	0.17	0.00	84.81	0.00	0.53	0.00	12237.18	241.85	0.00	0.00	11995.33
193+85	19385.00	35.00	112.54	0.00	0.13	0.00	102.99	0.00	0.19	0.00	12340.17	242.08	0.00	0.00	12098.09
194+00	19400.00	15.00	115.63	0.00	0.12	0.00	63.38	0.00	0.07	0.00	12403.55	242.17	0.00	0.00	12161.38
194+23	19423.00	23.00	120.11	0.00	0.10	0.00	100.41	0.00	0.09	0.00	12503.96	242.28	0.00	0.00	12261.68
194+50	19450.00	27.00	119.06	0.00	0.07	0.00	119.59	0.00	0.09	0.00	12623.54	242.38	0.00	0.00	12381.16
195+00	19500.00	50.00	114.17	0.00	0.03	0.00	215.95	0.00	0.09	0.00	12839.50	242.49	0.00	0.00	12597.00
195+50	19550.00	50.00	119.71	0.00	0.01	0.00	216.56	0.00	0.04	0.00	13056.05	242.54	0.00	0.00	12813.52
195+59	19559.00	9.00	126.94	0.00	0.01	0.00	41.11	0.00	0.00	0.00	13097.16	242.54	0.00	0.00	12854.62
196+00	19600.00	41.00	119.64	0.00	0.05	0.00	187.22	0.00	0.05	0.00	13284.38	242.60	0.00	0.00	13041.78
196+01	19601.00	1.00	119.55	0.00	0.04	0.00	4.43	0.00	0.00	0.00	13288.81	242.60	0.00	0.00	13046.21
196+18	19618.00	17.00	123.14	0.00	0.12	0.00	76.40	0.00	0.05	0.00	13365.21	242.66	0.00	0.00	13122.55
196+50	19650.00	32.00	113.92	0.00	0.08	0.00	140.48	0.00	0.12	0.00	13505.69	242.80	0.00	0.00	13262.89
197+00	19700.00	50.00	113.13	0.00	0.27	0.00	210.23	0.00	0.32	0.00	13715.92	243.19	0.00	0.00	13472.73
197+50	19750.00	50.00	72.83	0.00	0.00	0.00	172.19	0.00	0.25	0.00	13888.11	243.49	0.00	0.00	13644.62
198+00	19800.00	50.00	57.14	0.00	0.00	0.00	120.34	0.00	0.00	0.00	14008.45	243.49	0.00	0.00	13764.96
198+50	19850.00	50.00	68.92	0.00	0.00	0.00	116.72	0.00	0.00	0.00	14125.17	243.49	0.00	0.00	13881.68
199+00	19900.00	50.00	81.93	0.00	0.00	0.00	139.68	0.00	0.00	0.00	14264.85	243.49	0.00	0.00	14021.36
199+50	19950.00	50.00	76.76	0.00	0.00	0.00	146.94	0.00	0.00	0.00	14411.78	243.49	0.00	0.00	14168.29
200+00	20000.00	50.00	74.50	0.00	0.00	0.00	140.06	0.00	0.00	0.00	14551.84	243.49	0.00	0.00	14308.35
200+26	20026.00	26.00	80.62	0.00	0.00	0.00	74.69	0.00	0.00	0.00	14626.53	243.49	0.00	0.00	14383.04
200+50	20050.00	24.00	125.22	0.00	0.00	0.00	91.48	0.00	0.00	0.00	14718.01	243.49	0.00	0.00	14474.52
201+00	20100.00	50.00	126.80	0.00	0.00	0.00	233.35	0.00	0.00	0.00	14951.36	243.49	0.00	0.00	14707.87
201+50	20150.00	50.00	127.80	0.00	0.00	0.00	235.74	0.00	0.00	0.00	15187.10	243.49	0.00	0.00	14943.61
202+00	20200.00	50.00	123.24	0.00	0.00	0.00	232.44	0.00	0.00	0.00	15419.55	243.49	0.00	0.00	15176.06
202+50	20250.00	50.00	115.84	0.00	0.00	0.00	221.37	0.00	0.00	0.00	15640.92	243.49	0.00	0.00	15397.43
203+00	20300.00	50.00	65.50	0.00	0.00	0.00	167.91	0.00	0.00	0.00	15808.83	243.49	0.00	0.00	15565.34

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TEUTONIA AVENUE (CONTINUED)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3	Cumulative Vol (CY) Reduced EBS In Fill 0.8	Mass Ordinate
							Note 1	Note 2	Note 3				Note 4	Note 5	Note 6
203+49	20349.00	49.00	75.48	0.00	0.00	0.00	127.93	0.00	0.00	0.00	15936.75	243.49	0.00	0.00	15693.26
203+50	20350.00	1.00	75.50	0.00	0.00	0.00	2.80	0.00	0.00	0.00	15939.55	243.49	0.00	0.00	15696.06
204+00	20400.00	50.00	81.27	0.00	0.00	0.00	145.16	0.00	0.00	0.00	16084.70	243.49	0.00	0.00	15841.22
204+22	20422.00	22.00	79.70	0.00	0.00	0.00	65.58	0.00	0.00	0.00	16150.29	243.49	0.00	0.00	15906.80
204+50	20450.00	28.00	75.56	0.00	0.35	0.00	80.51	0.00	0.18	0.00	16230.79	243.71	0.00	0.00	15987.08
205+00	20500.00	50.00	80.09	0.00	13.10	0.00	144.12	0.00	12.45	0.00	16374.91	258.65	0.00	0.00	16116.26
205+29	20529.00	29.00	83.03	0.00	0.00	0.00	87.60	0.00	7.04	0.00	16462.51	267.09	0.00	0.00	16195.42
205+50	20550.00	21.00	76.28	0.00	0.00	0.00	61.95	0.00	0.00	0.00	16524.47	267.09	0.00	0.00	16257.37
206+00	20600.00	50.00	55.66	0.00	0.00	0.00	122.17	0.00	0.00	0.00	16646.63	267.09	0.00	0.00	16379.54
206+50	20650.00	50.00	73.89	0.00	0.00	0.00	119.95	0.00	0.00	0.00	16766.59	267.09	0.00	0.00	16499.49
206+61	20661.00	11.00	74.37	0.00	0.00	0.00	30.20	0.00	0.00	0.00	16796.79	267.09	0.00	0.00	16529.69
207+00	20700.00	39.00	62.31	0.00	0.10	0.00	98.71	0.00	0.07	0.00	16895.50	267.18	0.00	0.00	16628.32
207+13	20713.00	13.00	73.49	0.00	0.25	0.00	32.69	0.00	0.08	0.00	16928.19	267.28	0.00	0.00	16660.91
207+23	20723.00	10.00	75.39	0.00	0.00	0.00	27.57	0.00	0.05	0.00	16955.76	267.34	0.00	0.00	16688.43
207+50	20750.00	27.00	72.17	0.00	0.19	0.00	73.78	0.00	0.10	0.00	17029.54	267.45	0.00	0.00	16762.09
207+81	20781.00	31.00	72.42	0.00	0.00	0.00	83.01	0.00	0.11	0.00	17112.55	267.58	0.00	0.00	16844.97
208+00	20800.00	19.00	77.64	0.00	0.10	0.00	52.80	0.00	0.04	0.00	17165.35	267.62	0.00	0.00	16897.72
208+13	20813.00	13.00	77.98	0.00	0.13	0.00	37.46	0.00	0.06	0.00	17202.81	267.69	0.00	0.00	16935.12
208+50	20850.00	37.00	70.69	0.00	0.06	0.00	101.87	0.00	0.13	0.00	17304.68	267.85	0.00	0.00	17036.83
209+00	20900.00	50.00	70.16	0.00	0.00	0.00	130.42	0.00	0.06	0.00	17435.10	267.91	0.00	0.00	17167.18
209+50	20950.00	50.00	63.80	0.00	0.23	0.00	124.04	0.00	0.21	0.00	17559.13	268.17	0.00	0.00	17290.96
210+00	21000.00	50.00	59.34	0.00	0.00	0.00	114.02	0.00	0.21	0.00	17673.15	268.42	0.00	0.00	17404.73
210+50	21050.00	50.00	59.46	0.00	0.00	0.00	110.00	0.00	0.00	0.00	17783.15	268.42	0.00	0.00	17514.73
210+88	21088.00	38.00	82.64	0.00	0.00	0.00	100.00	0.00	0.00	0.00	17883.15	268.42	0.00	0.00	17614.72
211+00	21100.00	12.00	80.48	0.00	0.00	0.00	36.25	0.00	0.00	0.00	17919.40	268.42	0.00	0.00	17650.97
211+50	21150.00	50.00	61.95	0.00	0.00	0.00	131.88	0.00	0.00	0.00	18051.28	268.42	0.00	0.00	17782.85
212+00	21200.00	50.00	69.08	0.00	0.00	0.00	121.32	0.00	0.00	0.00	18172.60	268.42	0.00	0.00	17904.18
212+18	21218.00	18.00	75.95	0.00	0.00	0.00	48.34	0.00	0.00	0.00	18220.94	268.42	0.00	0.00	17952.52
212+50	21250.00	32.00	78.78	0.00	0.04	0.00	91.69	0.00	0.02	0.00	18312.63	268.45	0.00	0.00	18044.18
213+00	21300.00	50.00	77.22	0.00	0.00	0.00	144.44	0.00	0.04	0.00	18457.08	268.50	0.00	0.00	18188.58
213+50	21350.00	50.00	67.78	0.00	2.67	0.00	134.26	0.00	2.47	0.00	18591.34	271.46	0.00	0.00	18319.88
214+00	21400.00	50.00	62.51	0.00	0.00	0.00	120.64	0.00	2.47	0.00	18711.98	274.43	0.00	0.00	18437.55
214+25	21425.00	25.00	67.10	0.00	0.00	0.00	60.00	0.00	0.00	0.00	18771.98	274.43	0.00	0.00	18497.55
214+50	21450.00	25.00	63.09	0.00	0.00	0.00	60.27	0.00	0.00	0.00	18832.26	274.43	0.00	0.00	18557.83
215+00	21500.00	50.00	70.49	0.00	0.00	0.00	123.69	0.00	0.00	0.00	18955.94	274.43	0.00	0.00	18681.51
215+35	21535.00	35.00	93.91	0.00	0.00	0.00	106.56	0.00	0.00	0.00	19062.50	274.43	0.00	0.00	18788.07
215+50	21550.00	15.00	67.27	0.00	0.00	0.00	44.77	0.00	0.00	0.00	19107.27	274.43	0.00	0.00	18832.84
216+00	21600.00	50.00	71.29	0.00	0.00	0.00	128.30	0.00	0.00	0.00	19235.56	274.43	0.00	0.00	18961.13
216+21 BK	21621.00	21.00	73.24	0.00	0.00	0.00	56.21	0.00	0.00	0.00	19291.77	274.43	0.00	0.00	19017.34
						Column totals	19395.57	0.00	228.69	0.00					

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CHAMBERS STREET

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Expanded Fill	Cumulative Vol (CY) Expanded EBS Backfill	Cumulative Vol (CY) Reduced EBS In Fill	Mass Ordinate
												1.0	1.2	1.3	0.8	
								Note 1	Note 2	Note 3				Note 4	Note 5	Note 6
48+24	AH	4824.47	0.00	62.55	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48+50		4850.00	25.53	374.85	0.00	0.35	0.00	206.79	0.00	0.31	0.00	206.79	0.37	0.00	0.00	206.42
48+53		4853.00	3.00	67.86	0.00	0.58	0.00	24.60	0.00	0.05	0.00	231.39	0.43	0.00	0.00	230.96
49+00		4900.00	47.00	73.96	0.00	6.17	0.00	123.44	0.00	5.88	0.00	354.82	7.48	0.00	0.00	347.34
49+50		4950.00	50.00	81.35	0.00	14.47	0.00	143.81	0.00	19.11	0.00	498.63	30.41	0.00	0.00	468.22
49+77	BK	4977.00	27.00	36.79	0.00	0.01	0.00	59.07	0.00	7.24	0.00	557.70	39.10	0.00	0.00	518.60
50+24	AH	5024.00	0.00	30.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+33		5033.00	9.00	66.74	0.00	0.35	0.00	16.21	0.00	0.06	0.00	16.21	0.07	0.00	0.00	16.14
50+50		5050.00	17.00	34.66	0.00	0.00	0.00	31.92	0.00	0.11	0.00	48.13	0.20	0.00	0.00	47.93
51+00		5100.00	50.00	23.31	0.00	0.00	0.00	53.68	0.00	0.00	0.00	101.81	0.20	0.00	0.00	101.61
51+11	BK	5111.00	11.00	11.96	0.00	0.00	0.00	7.18	0.00	0.00	0.00	108.99	0.20	0.00	0.00	108.79
							Column totals	666.69	0.00	32.75	0.00					

COLUMBIA STREET

STATION	Real Station	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
			Cut	Salvaged / Unusable Pavement Material	Fill	EBS	Cut	Salvaged / Unusable Pavement Material	Fill	EBS	Cut	Expanded Fill	Expanded EBS Backfill	Reduced EBS In Fill	
											1.0	1.2	1.3	0.8	
							Note 1	Note 2	Note 3				Note 4	Note 5	Note 6
50+24 AH	5024.00	0.00	18.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+45	5045.00	21.00	43.48	0.00	0.00	0.00	24.20	0.00	0.00	0.00	24.20	0.00	0.00	0.00	24.20
50+50	5050.00	5.00	42.72	0.00	0.00	0.00	7.98	0.00	0.00	0.00	32.19	0.00	0.00	0.00	32.19
50+80 BK	5079.80	29.80	43.17	0.00	1.05	0.00	47.40	0.00	0.58	0.00	79.58	0.70	0.00	0.00	78.89
						Column totals	79.58	0.00	0.58	0.00					

BURLEIGH STREET

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
50+24 AH	5023.99	0.00	38.96	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+50	5050.00	26.01	89.91	0.00	0.11	0.00	62.07	0.00	0.13	0.00	62.07	0.16	0.00	0.00	61.91
51+00	5100.00	50.00	75.40	0.00	13.67	0.00	153.06	0.00	12.76	0.00	215.14	15.47	0.00	0.00	199.66
51+10	5109.78	9.78	75.67	0.00	7.83	0.00	27.36	0.00	3.89	0.00	242.50	20.15	0.00	0.00	222.35
51+50	5150.00	40.22	35.05	0.00	0.02	0.00	82.47	0.00	5.85	0.00	324.96	27.16	0.00	0.00	297.80
51+87 BK	5186.55	36.55	39.50	0.00	0.00	0.00	50.46	0.00	0.01	0.00	375.42	27.18	0.00	0.00	348.24
Column totals							375.42	0.00	22.65	0.00					

RING STREET

STATION	Real Station	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
			Cut	Salvaged / Unusable Pavement Material	Fill	EBS	Cut	Salvaged / Unusable Pavement Material	Fill	EBS	Cut 1.0	Expanded Fill 1.2	Expanded EBS Backfill 1.3	Reduced EBS In Fill 0.8	
							Note 1	Note 2	Note 3				Note 4	Note 5	Note 6
50+24 AH	5024.00	0.00	22.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+49 BK	5048.52	24.52	50.35	0.00	0.00	0.00	32.87	0.00	0.00	0.00	32.87	0.00	0.00	0.00	32.87
Column totals							32.87	0.00	0.00	0.00					

CONCORDIA AVENUE

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut Note 1	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
50+25	AH	5025.00	0.00	24.62	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+31		5031.00	6.00	45.32	0.00	0.90	0.00	7.77	0.00	0.21	0.00	7.77	0.25	0.00	0.00	7.52
50+50		5050.00	19.00	48.39	0.00	0.27	0.00	32.97	0.00	0.41	0.00	40.74	0.74	0.00	0.00	40.00
50+57	BK	5057.25	7.25	48.27	0.00	0.06	0.00	12.98	0.00	0.04	0.00	53.72	0.80	0.00	0.00	52.93
							Column totals	40.74	0.00	0.62	0.00					

18TH STREET

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
50+24	AH	5024.00	0.00	25.55	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+50		5050.00	26.00	44.42	0.00	0.00	0.00	33.69	0.00	1.46	0.00	33.69	1.76	0.00	0.00	31.93
51+00		5100.00	50.00	33.43	1.00	12.29	0.00	72.08	0.00	11.38	0.00	105.77	15.41	0.00	0.00	90.36
51+35	BK	5135.27	85.27	42.51	0.00	2.04	0.00	126.70	0.00	15.09	0.00	160.39	19.86	0.00	0.00	140.54
						Column totals		232.48	0.00	27.93	0.00					

KEEFE AVENUE

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
49+40	AH	4939.62	0.00	48.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49+50		4950.00	10.38	68.99	0.00	0.00	0.00	22.58	0.00	0.00	0.00	22.58	0.00	0.00	0.00	22.58
49+70	BK	4970.00	20.00	54.38	0.00	0.00	0.00	45.69	0.00	0.00	0.00	68.27	0.00	0.00	0.00	68.27
49+75	BK	4975.00	5.00	34.57	0.00	0.00	0.00	8.24	0.00	0.00	0.00	76.51	0.00	0.00	0.00	76.51
50+25	AH	5025.00	0.00	29.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+50		5050.00	25.00	66.97	0.00	0.00	0.00	44.73	0.00	0.00	0.00	44.73	0.00	0.00	0.00	44.73
50+76	BK	5075.93	25.93	60.41	0.00	0.00	0.00	61.17	0.00	0.00	0.00	105.90	0.00	0.00	0.00	105.90
							Column totals	182.41	0.00	0.00	0.00					

19TH STREET

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
50+25 BK	5025.00	0.00	35.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+37	5037.00	12.00	82.37	0.00	0.00	0.00	26.14	0.00	0.00	0.00	26.14	0.00	0.00	0.00	26.14
50+46	5046.00	9.00	89.24	0.00	0.00	0.00	28.60	0.00	0.00	0.00	54.74	0.00	0.00	0.00	54.74
50+50	5050.00	4.00	87.63	0.00	0.02	0.00	13.10	0.00	0.00	0.00	67.85	0.00	0.00	0.00	67.84
50+87	5087.00	37.00	45.80	0.00	0.80	0.00	91.42	0.00	0.56	0.00	159.27	0.68	0.00	0.00	158.59
50+97 BK	5096.51	9.51	47.43	0.00	0.13	0.00	16.42	0.00	0.16	0.00	175.69	0.87	0.00	0.00	174.82
Column totals							175.69	0.00	0.73	0.00					

FINN PLACE

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
49+37 AH	4936.84	0.00	26.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49+50	4950.00	13.16	47.40	0.00	0.26	0.00	18.07	0.00	0.06	0.00	18.07	0.08	0.00	0.00	18.00
49+75 BK	4975.00	25.00	21.21	0.00	2.76	0.00	31.76	0.00	1.40	0.00	49.84	1.75	0.00	0.00	48.08
50+25 AH	5025.00	0.00	25.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+50	5050.00	25.00	61.94	0.00	0.10	0.00	40.36	0.00	0.05	0.00	40.36	0.06	0.00	0.00	40.30
50+79 BK	5078.65	28.65	55.55	0.00	0.00	0.00	62.33	0.00	0.05	0.00	102.69	0.12	0.00	0.00	102.57
		Column totals					152.53	0.00	1.56	0.00					

9

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Quanities and Estimates\90 percent\EW_DATA_SHEETS.ppt
PLOT DATE : 7/31/2019 8:54:01 AM
PLOT NAME : 090101_EW1
PLOT SCALE : 1:1
PLOT BY : nstyka

NASH STREET

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
49+53	AH	4952.90	0.00	30.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49+75	BK	4974.98	22.08	21.69	0.00	0.00	0.00	21.21	0.00	0.00	0.00	21.21	0.00	0.00	0.00	21.21
50+25	AH	5025.10	0.00	25.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+50		5050.00	24.90	63.46	0.00	0.16	0.00	41.24	0.00	0.07	0.00	41.24	0.09	0.00	0.00	41.15
50+80	BK	5080.21	30.21	53.37	0.00	0.00	0.00	65.36	0.00	0.09	0.00	106.60	0.20	0.00	0.00	106.40
							Column totals	127.81	0.00	0.16	0.00					

VIENNA AVENUE

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
49+00	AH	4900.19	0.00	25.76	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49+50		4950.00	49.81	135.18	0.00	0.00	0.00	148.45	0.00	0.08	0.00	148.45	0.10	0.00	0.00	148.35
49+75	BK	4974.93	24.93	31.83	0.00	0.00	0.00	77.10	0.00	0.00	0.00	225.56	0.10	0.00	0.00	225.46
50+23	AH	5023.00	0.00	62.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+50		5050.00	27.00	43.71	0.00	1.16	0.00	53.02	0.00	0.58	0.00	53.02	0.70	0.00	0.00	52.32
50+95		5094.71	44.71	38.09	0.00	2.75	0.00	67.73	0.00	3.24	0.00	120.75	4.58	0.00	0.00	116.17
51+39		5139.42	44.71	41.24	0.00	1.58	0.00	65.68	0.00	3.59	0.00	186.43	8.88	0.00	0.00	177.55
51+84	BK	5184.13	44.71	55.00	0.00	0.00	0.00	79.68	0.00	1.31	0.00	266.11	10.45	0.00	0.00	255.66
							Column totals	491.67	0.00	8.79	0.00					

20TH STREET

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
50+25	AH	5024.56	0.00	25.47	0.00	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+50		5050.00	25.44	54.98	0.00	4.10	0.00	37.90	0.00	3.71	0.00	37.90	4.45	0.00	0.00	33.45
51+00		5100.00	50.00	61.65	1.00	0.01	0.00	107.99	0.00	3.81	0.00	145.89	9.02	0.00	0.00	136.88
51+34	BK	5134.40	34.40	65.21	2.00	0.00	0.00	80.81	0.00	0.01	0.00	226.71	9.02	0.00	0.00	217.68
						Column totals		226.71	0.00	7.52	0.00					

MELVINA STREET

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
49+24 AH	4923.76	0.00	44.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49+50	4950.00	26.24	54.00	0.00	0.00	0.00	48.04	0.00	0.00	0.00	48.04	0.00	0.00	0.00	48.04
49+75	4975.00	25.00	32.76	0.00	0.00	0.00	40.17	0.00	0.00	0.00	88.21	0.00	0.00	0.00	88.21
50+25	5025.00	50.00	25.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+50	5050.00	25.00	49.08	0.00	0.00	0.00	34.60	0.00	0.00	0.00	34.60	0.00	0.00	0.00	34.60
50+99 BK	5099.30	49.30	44.80	0.00	0.05	0.00	85.71	0.00	0.05	0.00	120.31	0.05	0.00	0.00	120.25
		Column totals					208.52	0.00	0.05	0.00					

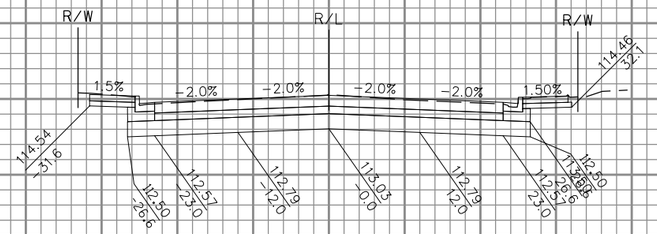
21ST STREET

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.0	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.3 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.8 Note 5	Mass Ordinate Note 6
48+81 AH	4880.52	0.00	26.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49+00	4900.00	19.48	55.67	0.00	0.00	0.00	29.82	0.00	0.00	0.00	29.82	0.00	0.00	0.00	29.82
49+00	4900.01	0.01	84.57	0.00	0.00	0.00	0.03	0.00	0.00	0.00	29.84	0.00	0.00	0.00	29.84
49+00	4900.02	0.01	57.34	0.00	3.85	0.00	0.03	0.00	0.00	0.00	29.87	0.00	0.00	0.00	29.87
50+27 AH	5027.00	0.00	21.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50+50	5050.00	23.00	71.67	0.00	0.42	0.00	39.73	0.00	0.18	0.00	39.73	0.21	0.00	0.00	39.52
50+76	5076.00	26.00	79.83	0.00	0.00	0.00	72.94	0.00	0.20	0.00	112.67	0.46	0.00	0.00	112.22
51+00	5100.00	24.00	92.15	0.00	0.00	0.00	76.44	0.00	0.00	0.00	189.11	0.46	0.00	0.00	188.65
51+15	5115.00	15.00	53.75	0.00	0.00	0.00	40.53	0.00	0.00	0.00	229.64	0.46	0.00	0.00	229.18
51+20	5120.00	5.00	55.26	0.00	0.00	0.00	10.09	0.00	0.00	0.00	239.73	0.46	0.00	0.00	239.27
						Column totals	29.87	0.00	0.00	0.00					

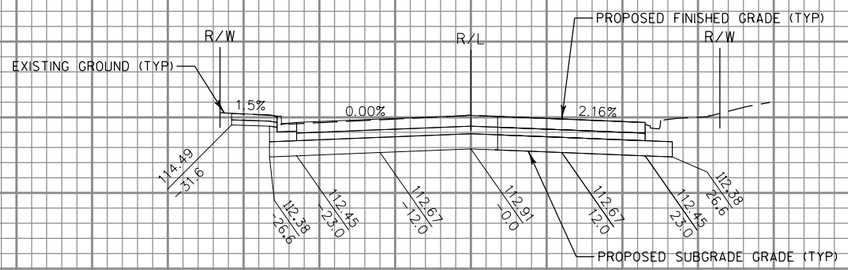
9

9

PROJECT NO: 2080-00-72	HWY: N TEUTONIA AVE	COUNTY: MILWAUKEE	EARTHWORK DATA: 21ST STREET	SHEET: 361	E



150+00



5 FT
10 FT
149+77

BEGIN PROJECT STA 149+76.53

STA 149+77 TO 150+00

9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 362 E

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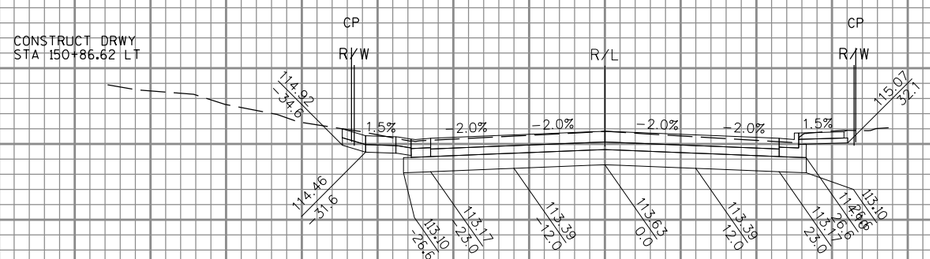

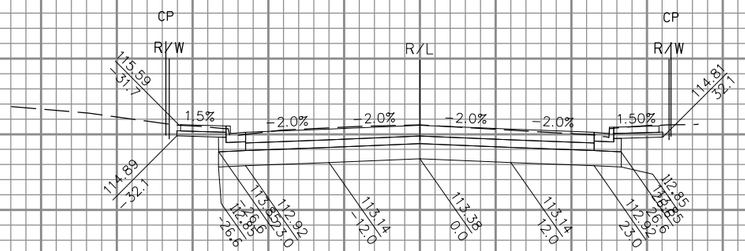

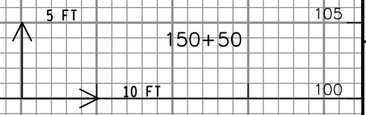

150+87

150+50

STA 150+50 TO 150+87

9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 363 E

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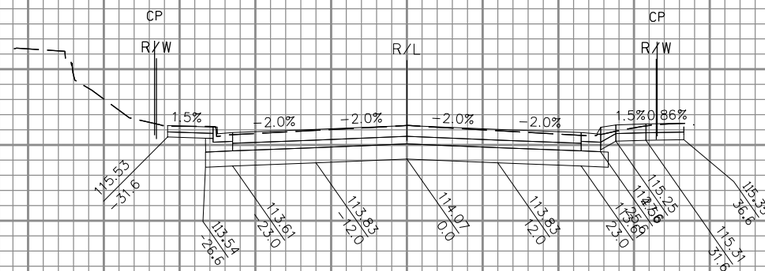
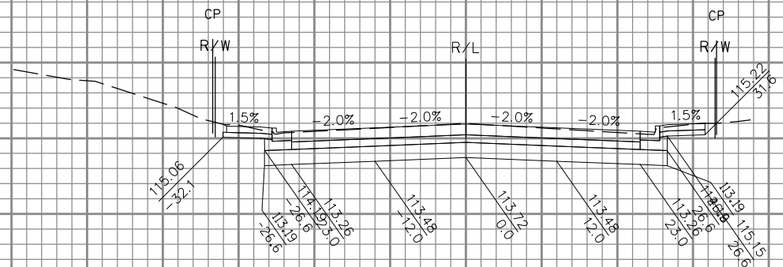


151+50



5 FT
10 FT
151+00

STA 151+00 TO 151+50

9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 364 E

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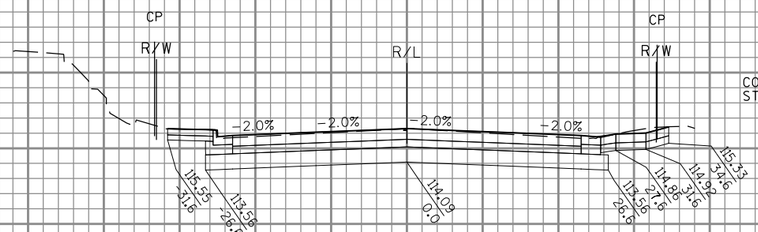
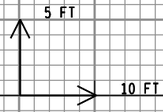
WISDOT/CADDS SHEET 21

152+00





151+53

STA 151+53 TO 152+00

9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 365 E

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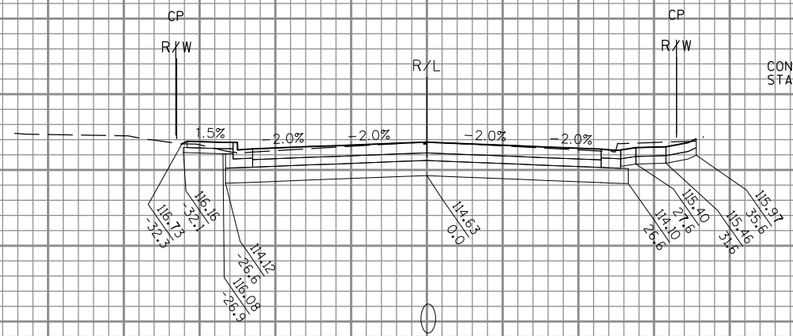

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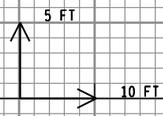

152+19

STA 152+19 TO 152+42

9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 366 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

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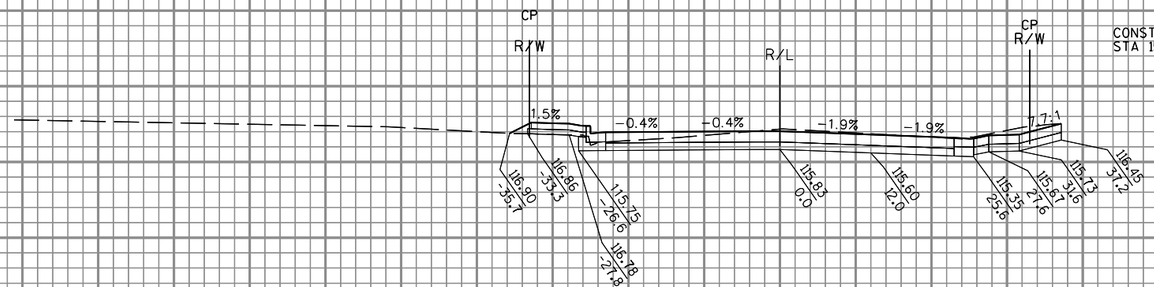
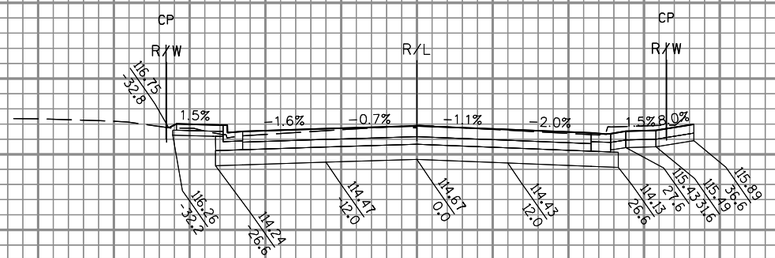
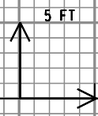






152+82

152+50

STA 152+50 TO 152+82

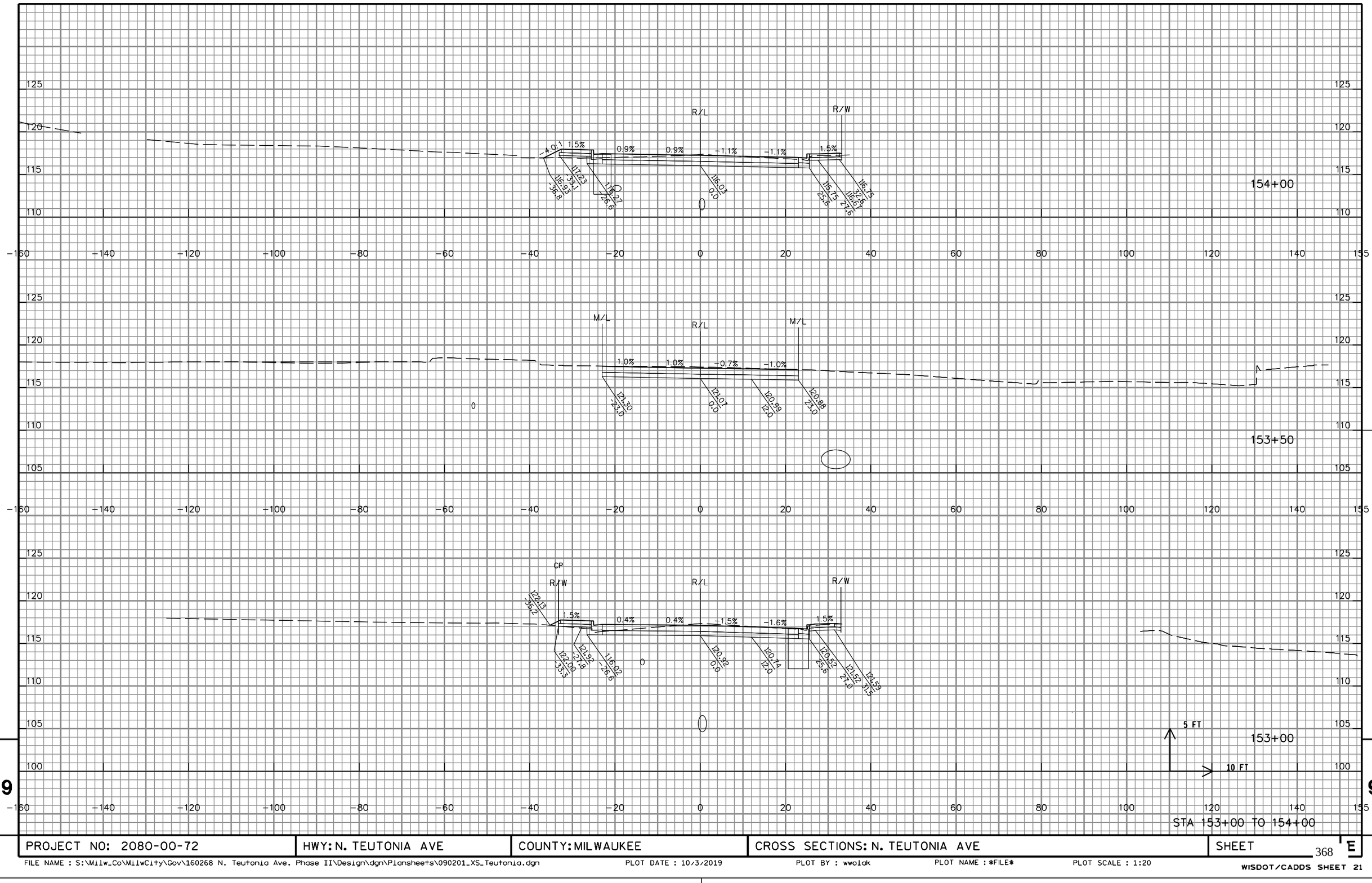
9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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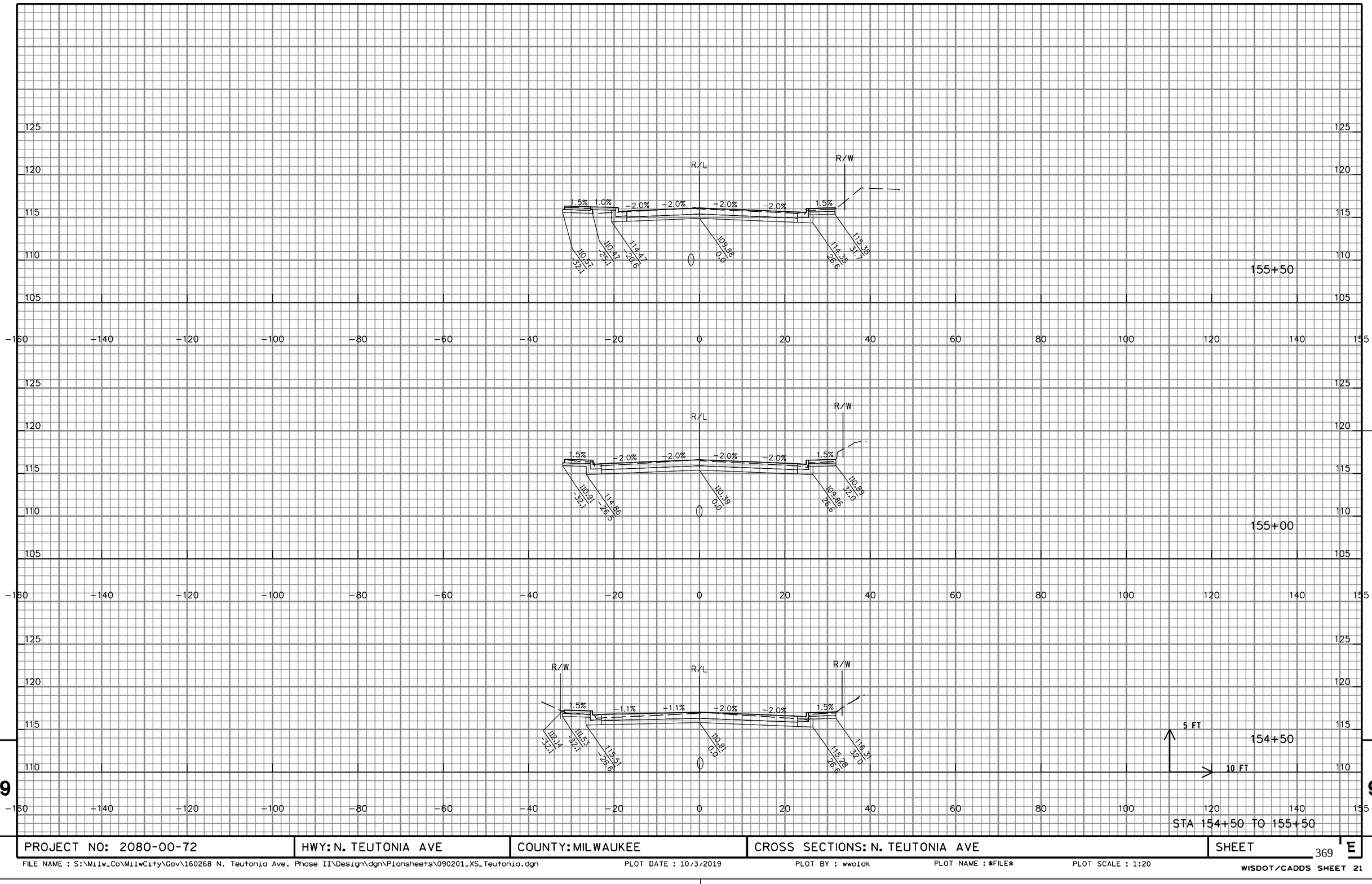
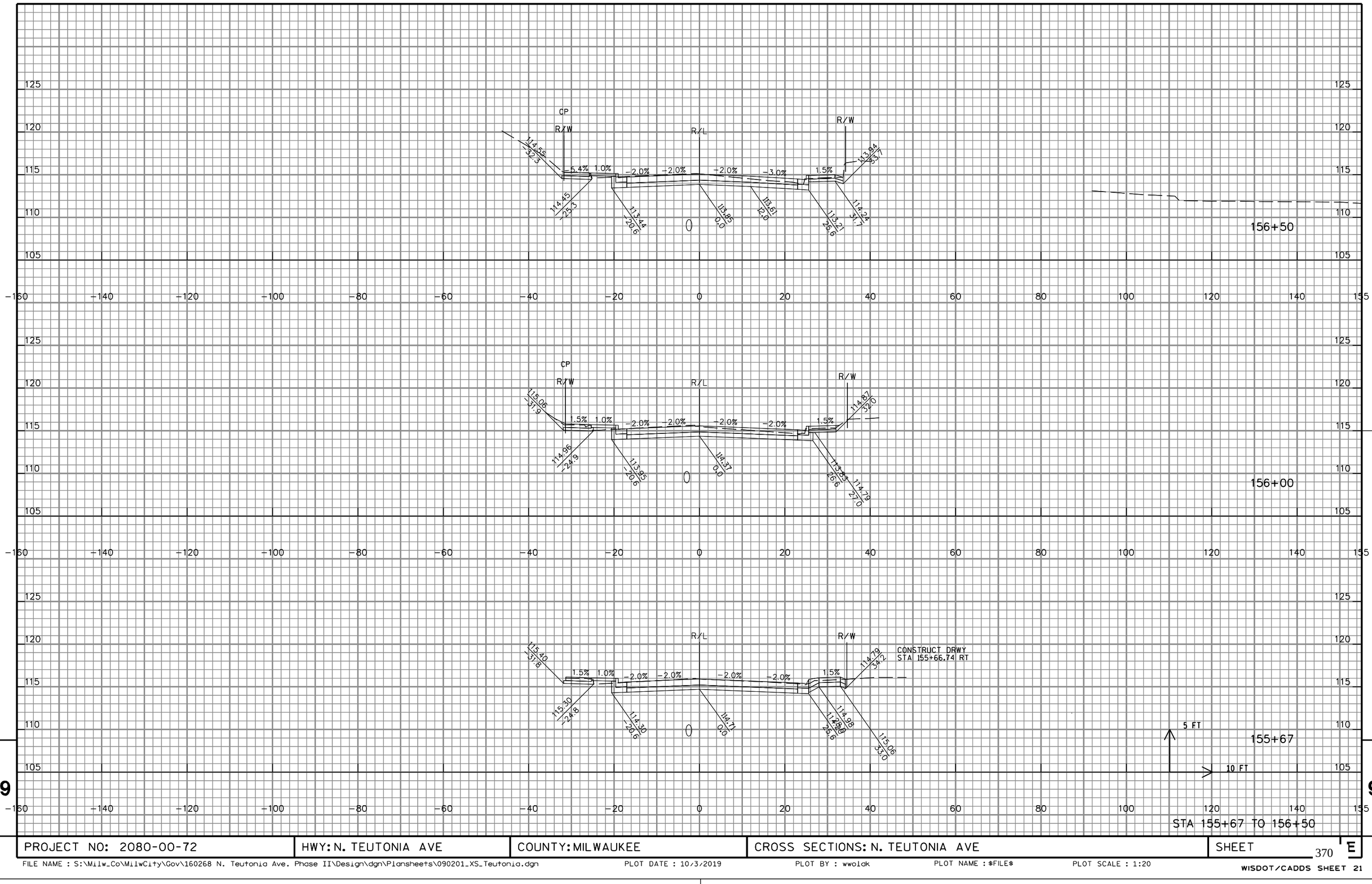


PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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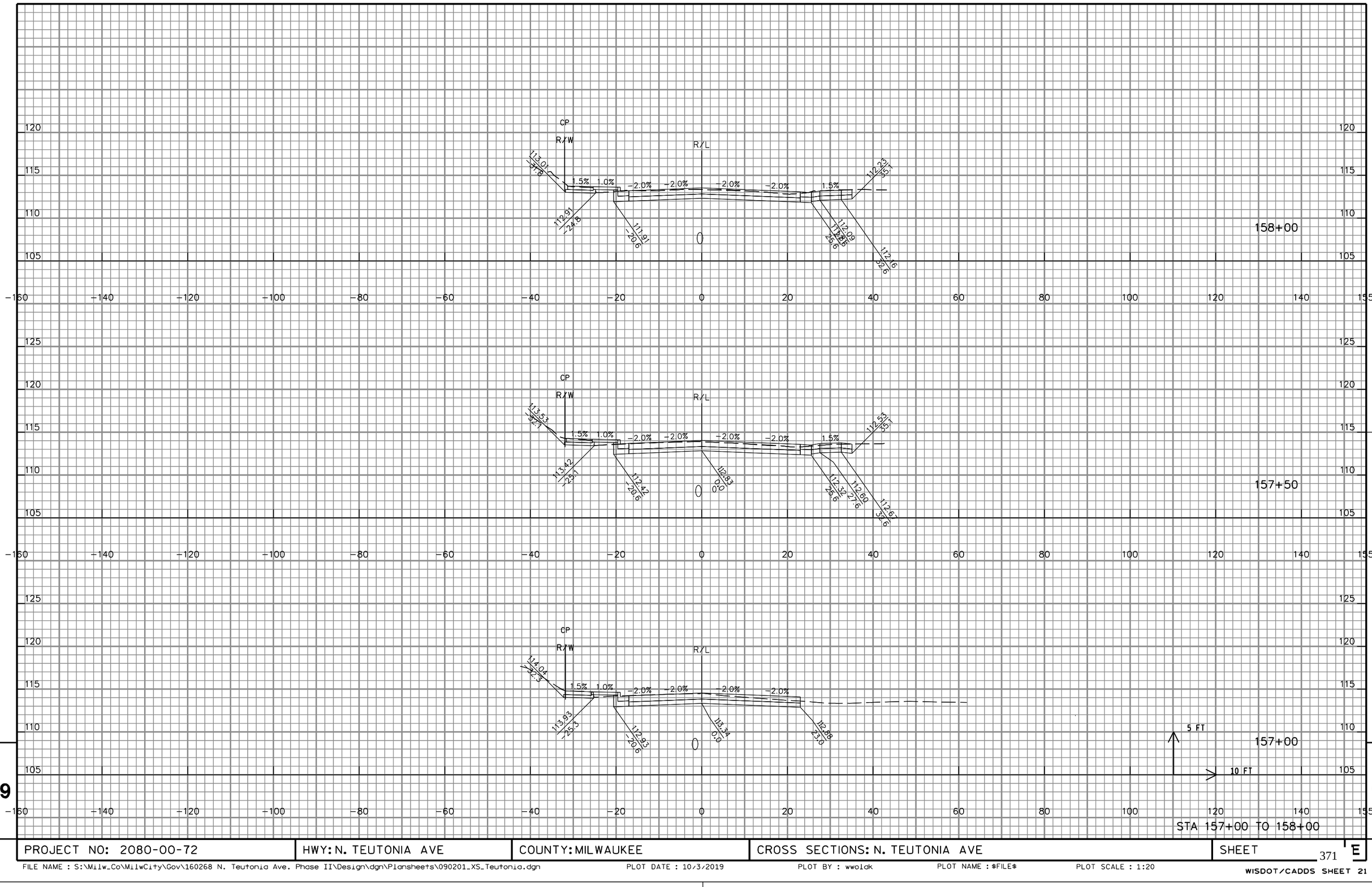
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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STA 157+00 TO 158+00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

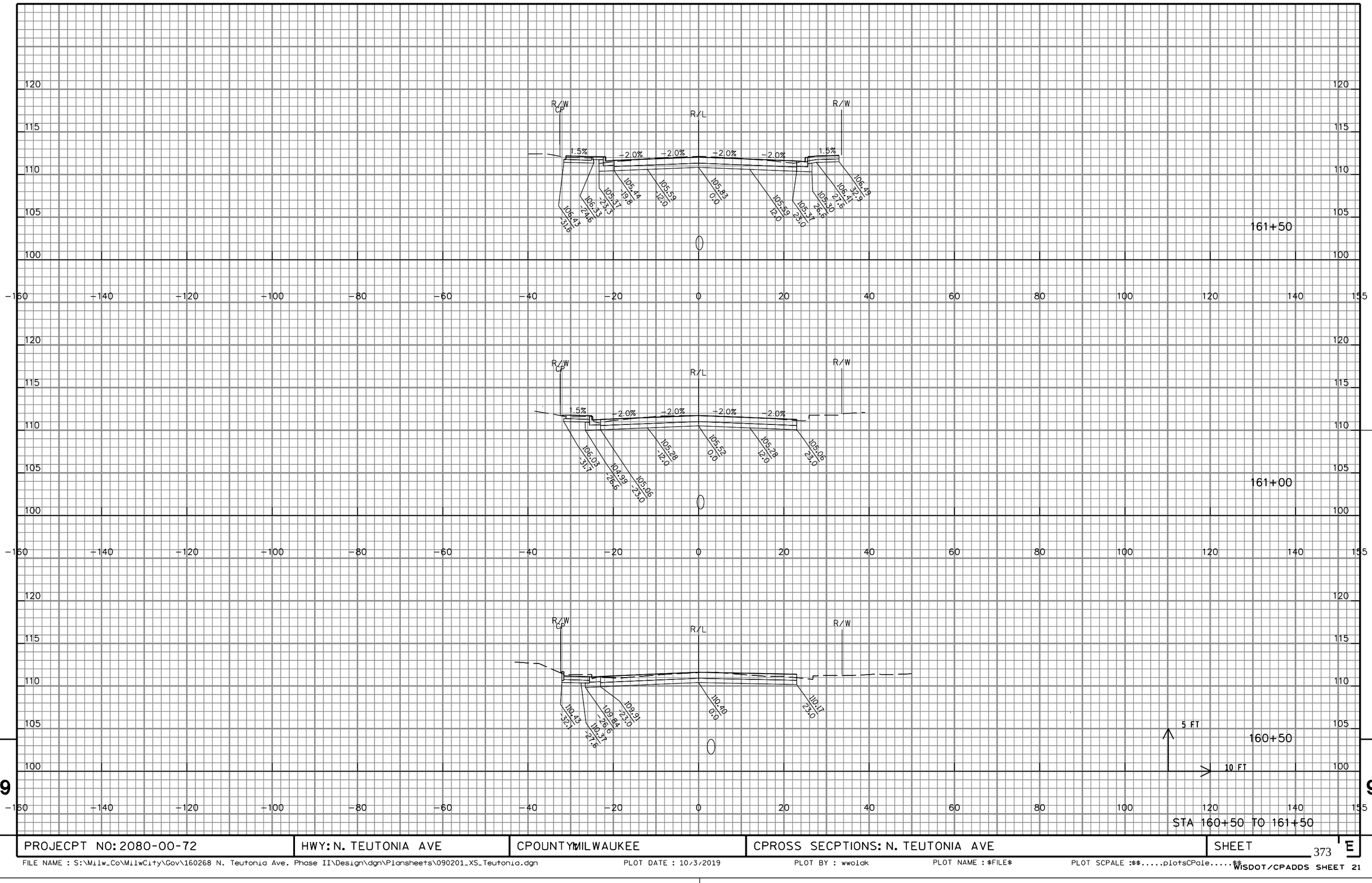
WISDOT/CADDS SHEET 21

STA 158+50 TO 160+00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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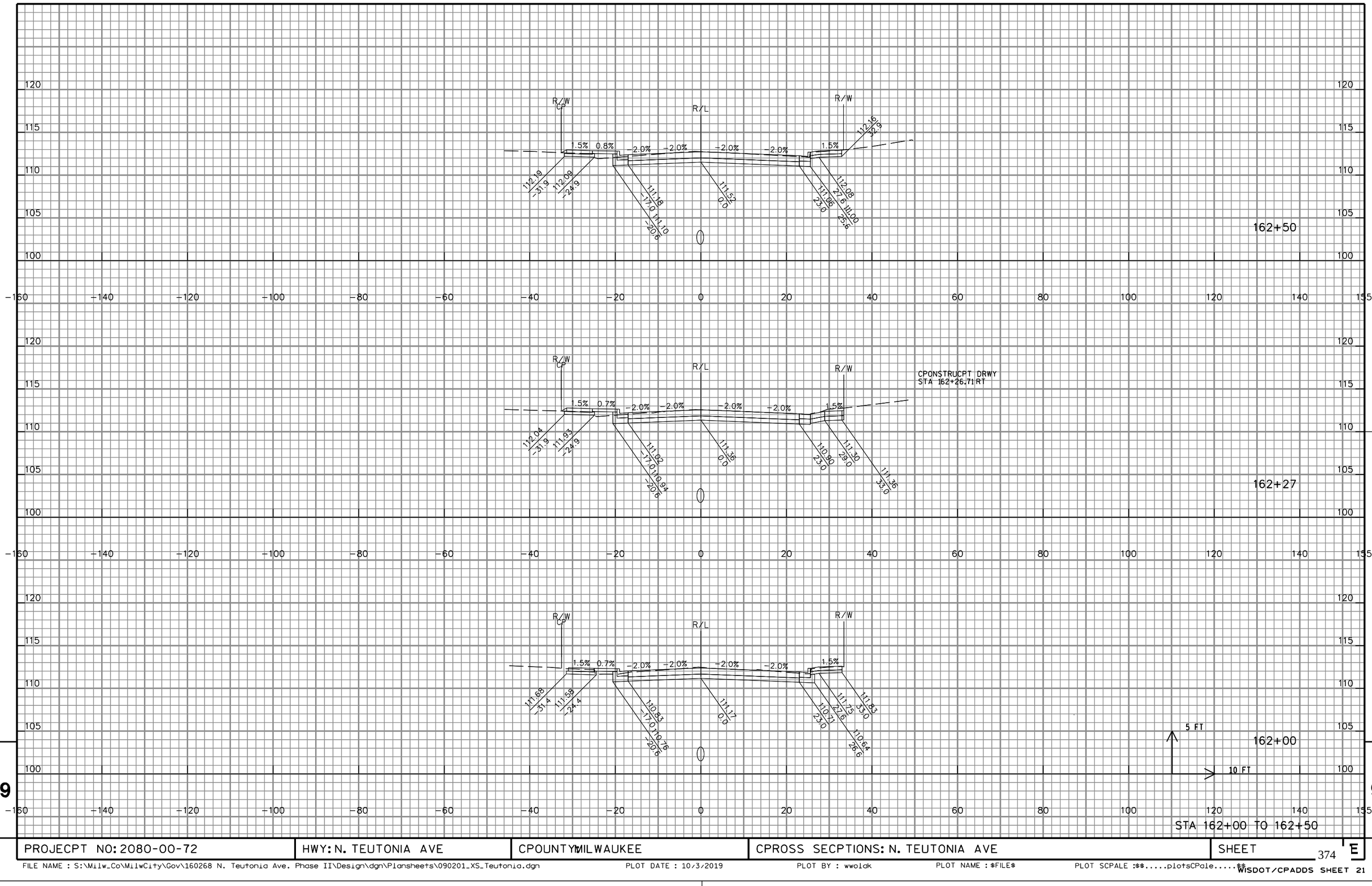
STA 160+50 TO 161+50

PROJECPT NO: 2080-00-72	HWY: N. TEUTONIA AVE	CPOUNTY: MILWAUKEE	CPROSS SECPTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCPALE :$$.....plotsCPale.....$$

WISDOT/CPADDS SHEET 21



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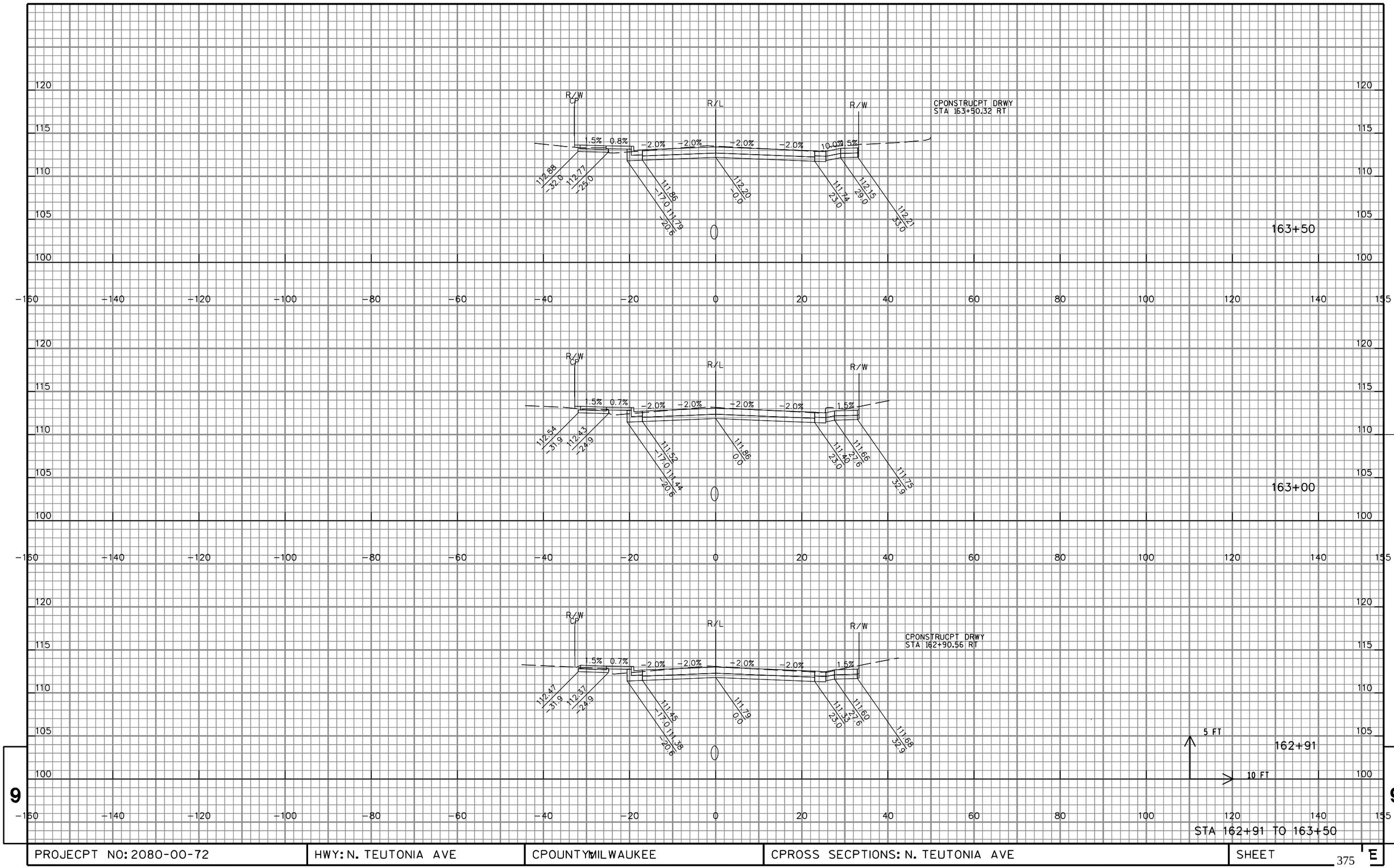
PROJECPT NO: 2080-00-72	HWY: N. TEUTONIA AVE	CPOUNTY: MILWAUKEE	CPROSS SECPTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCPALE :$$.....plotsCPale.....$$

WISDOT/CPADDS SHEET 21



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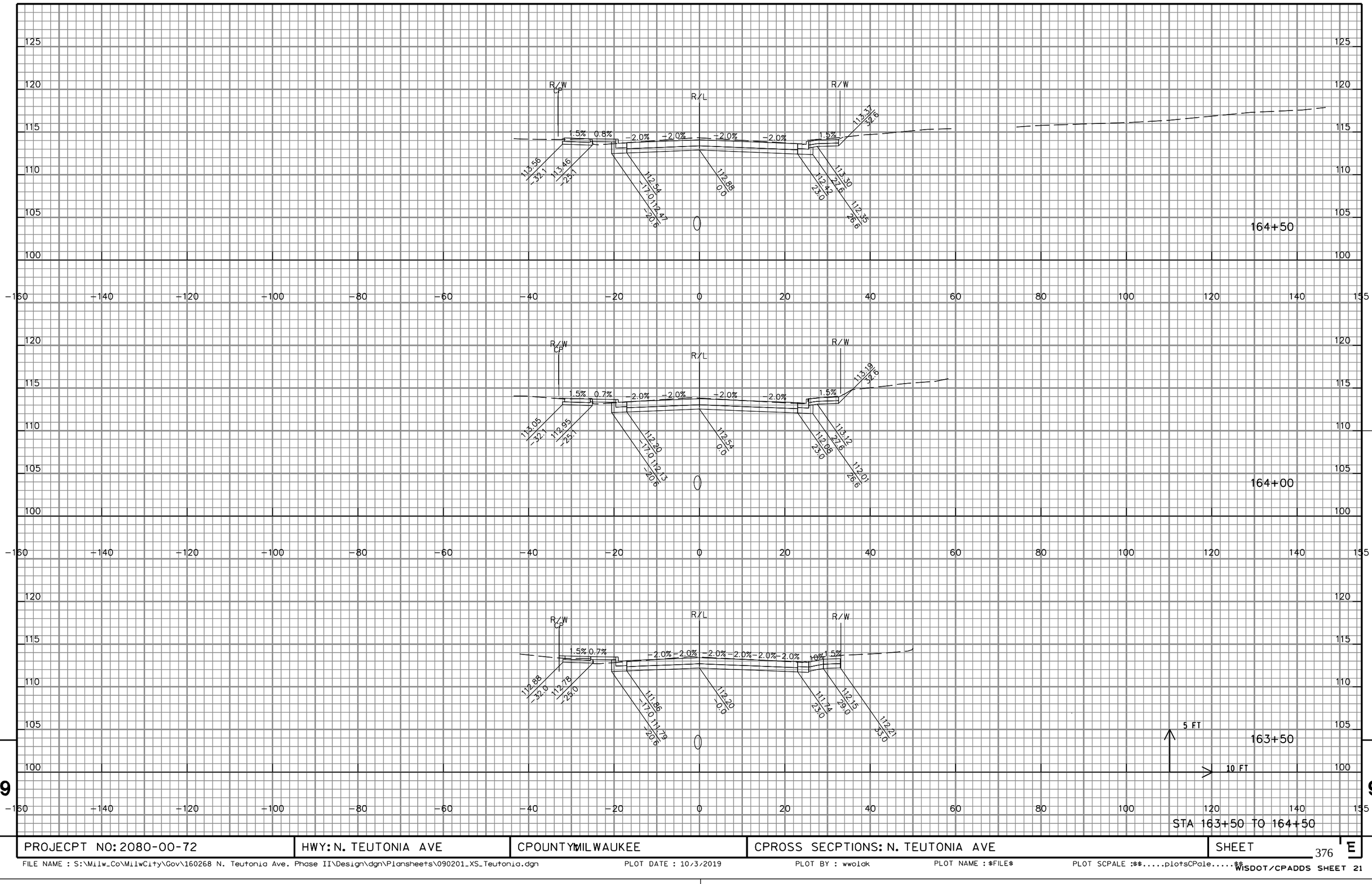
PROJECPT NO: 2080-00-72	HWY: N. TEUTONIA AVE	CPOUNTY: MILWAUKEE	CPROSS SECPTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCPALE :$$.....plotsCPale.....$$

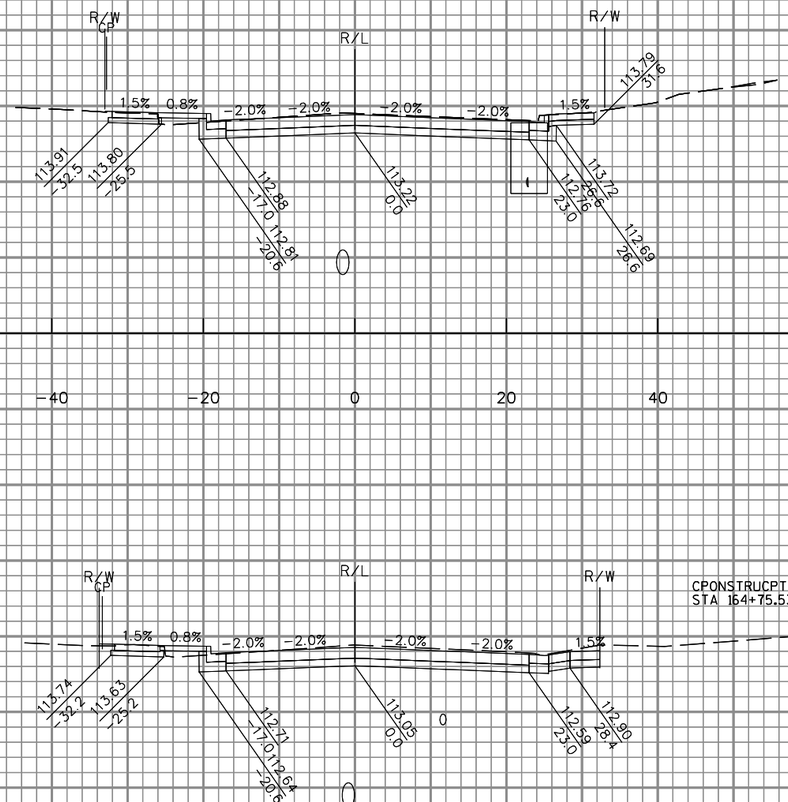
WISDOT/CPADDS SHEET 21



PROJECPT NO: 2080-00-72	HWY: N. TEUTONIA AVE	CPOUNTY: MILWAUKEE	CPROSS SECPTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCPALE :$$.....plotsCPale.....$$

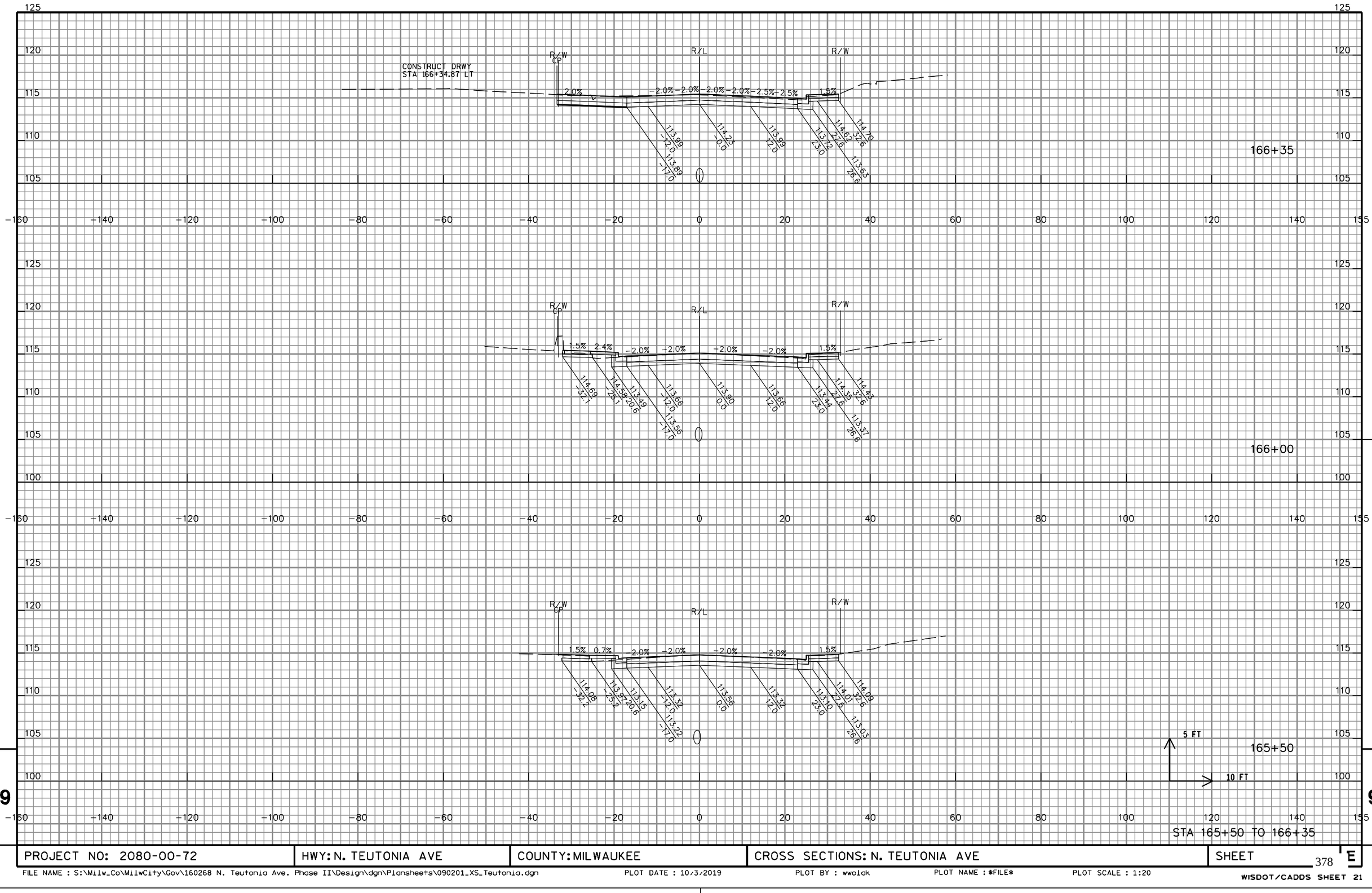
WISDOT/CPADDS SHEET 21



PROJECPT NO: 2080-00-72	HWY: N. TEUTONIA AVE	CPOUNTY: MILWAUKEE	CPROSS SECPTIONS: N. TEUTONIA AVE	SHEET 377 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCPALE : $$.....plotsCPale.....$$

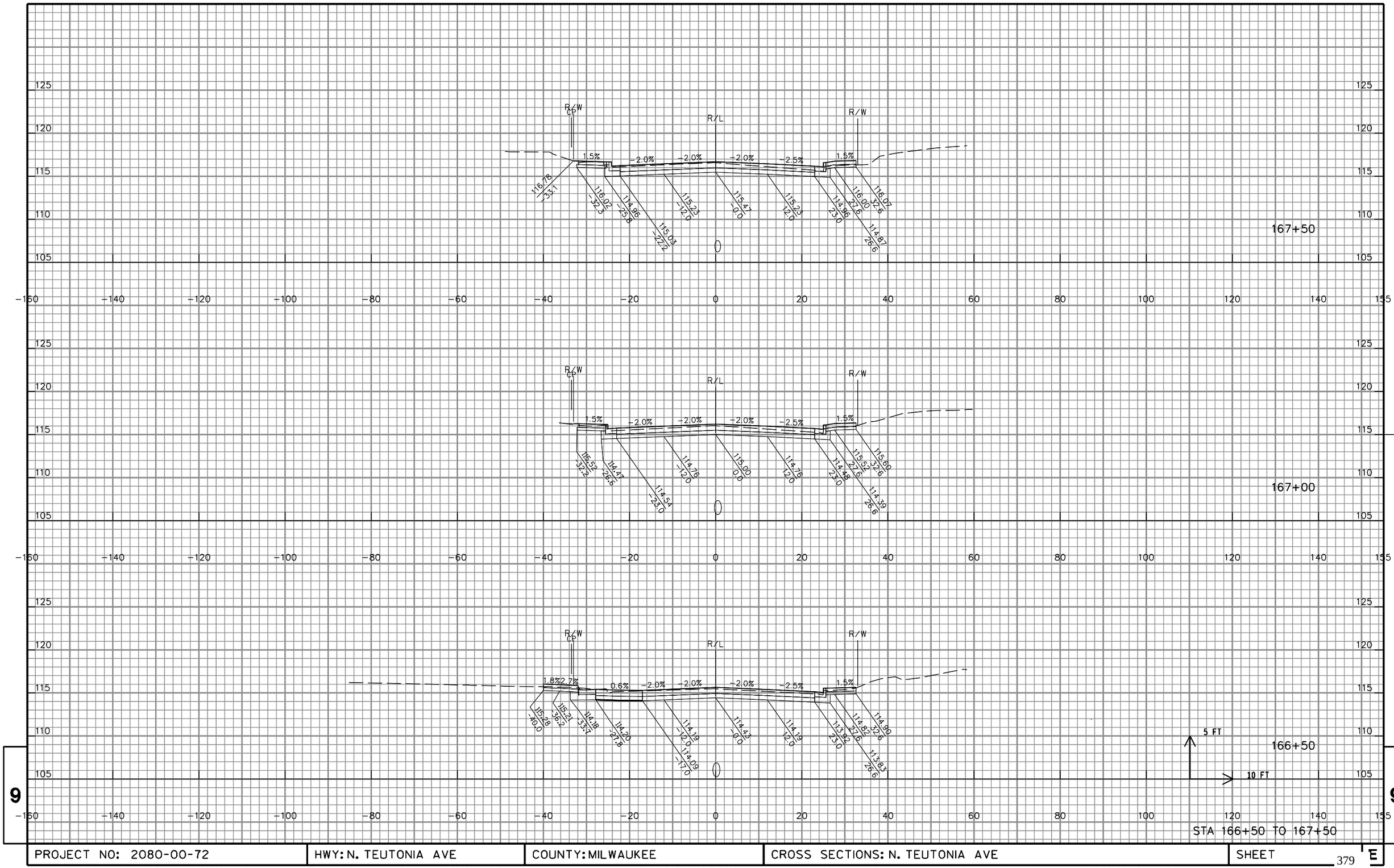
WISDOT/CPADDS SHEET 21



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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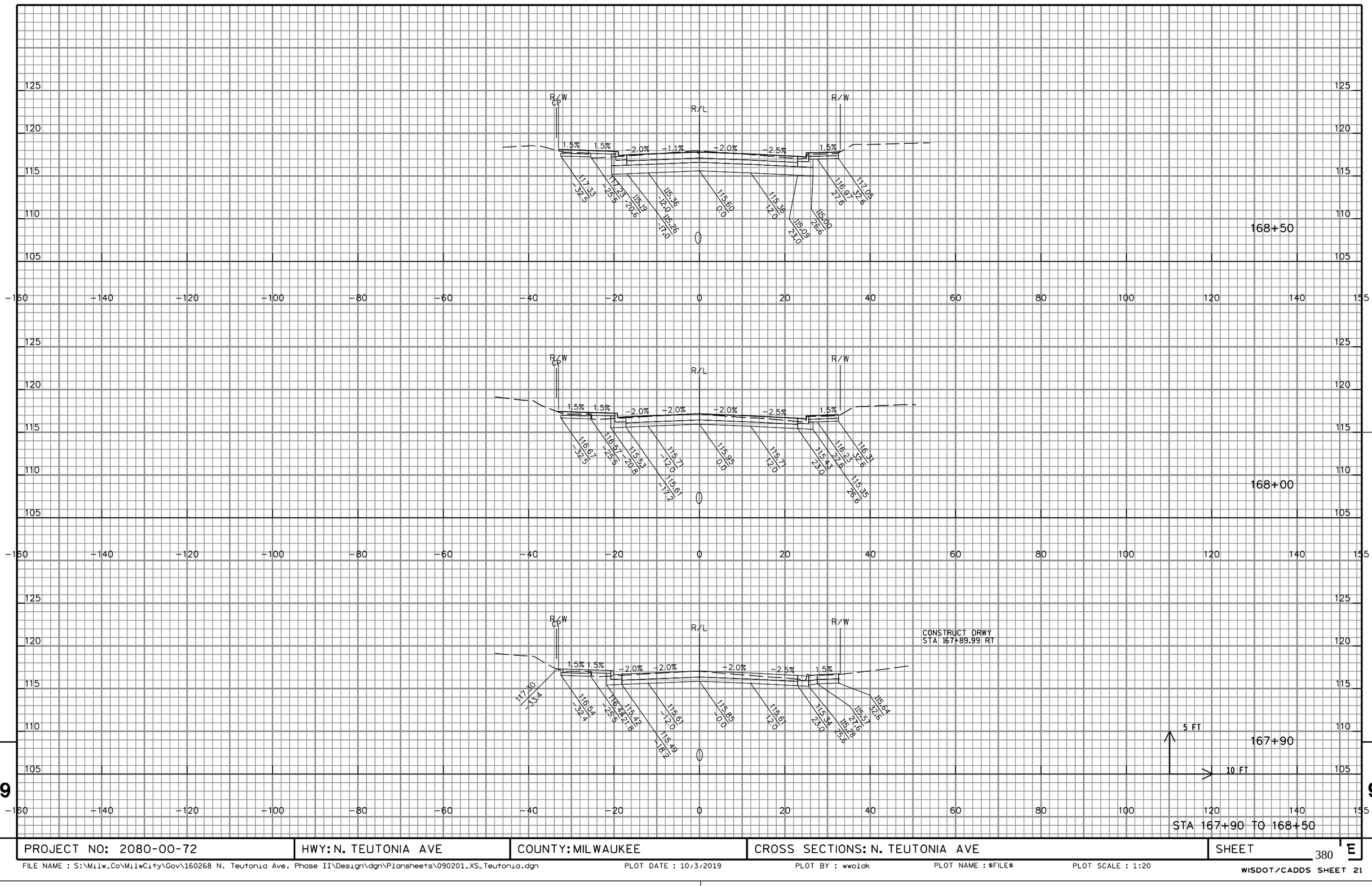
STA 166+50 TO 167+50

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

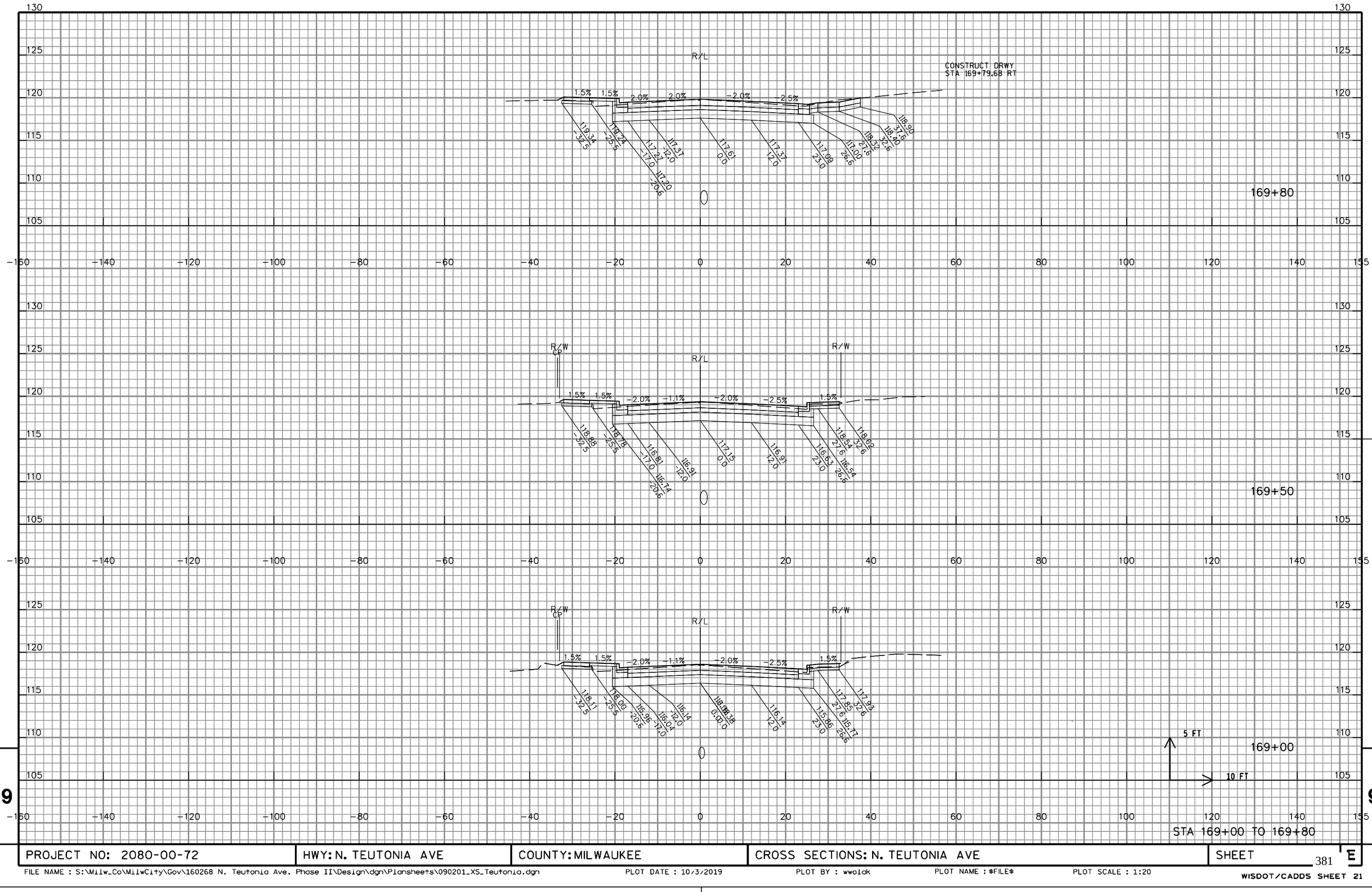
WISDOT/CADDS SHEET 21



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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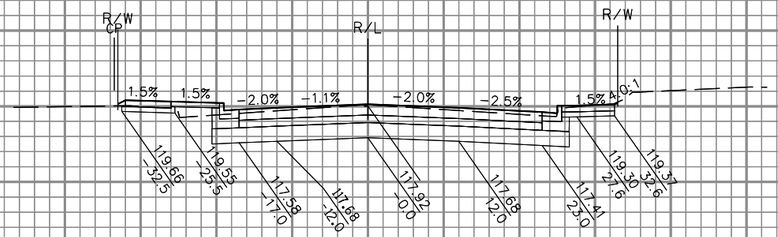
STA 169+00 TO 169+80

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

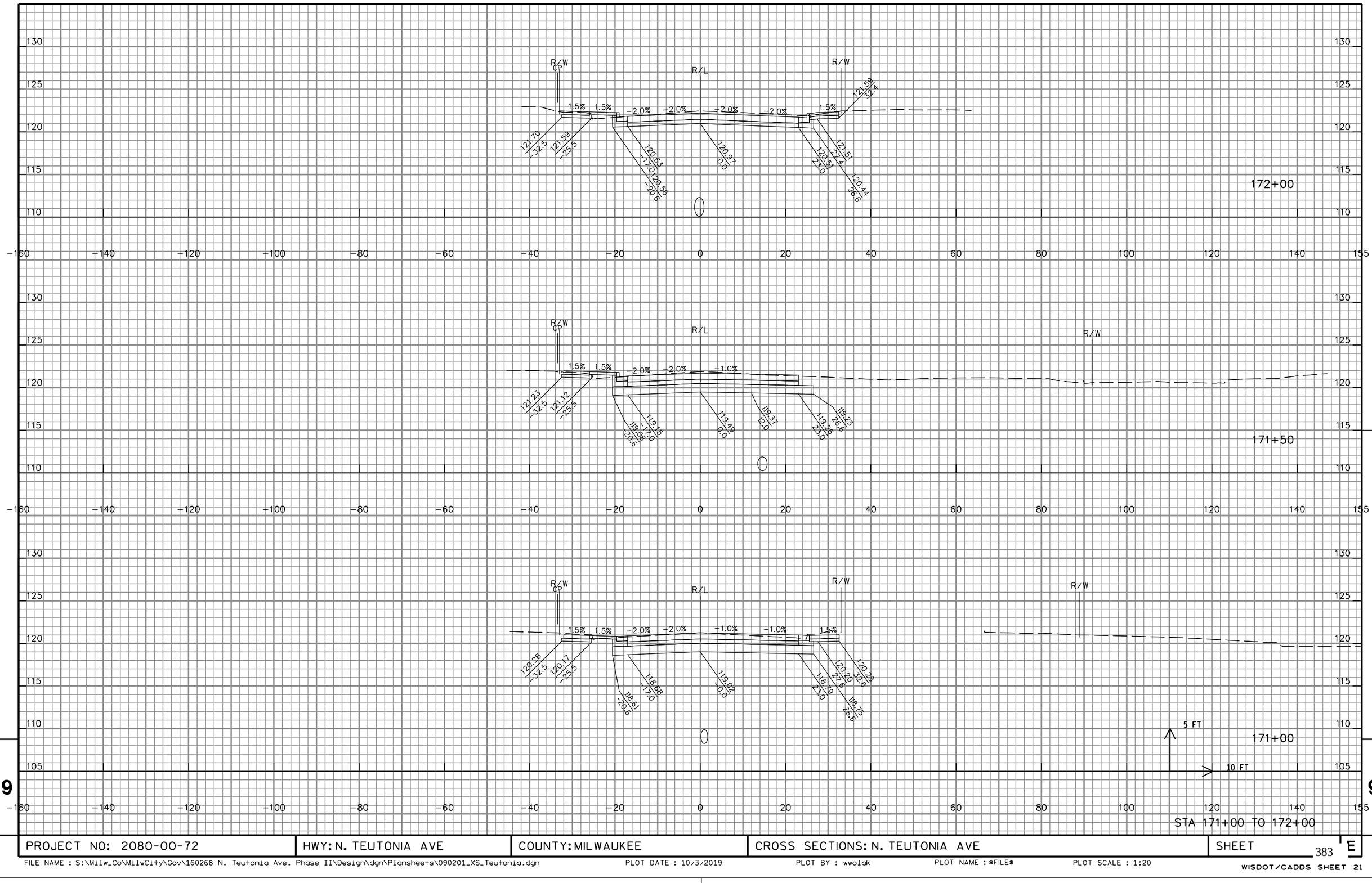


STA 170+00 TO 170+50

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

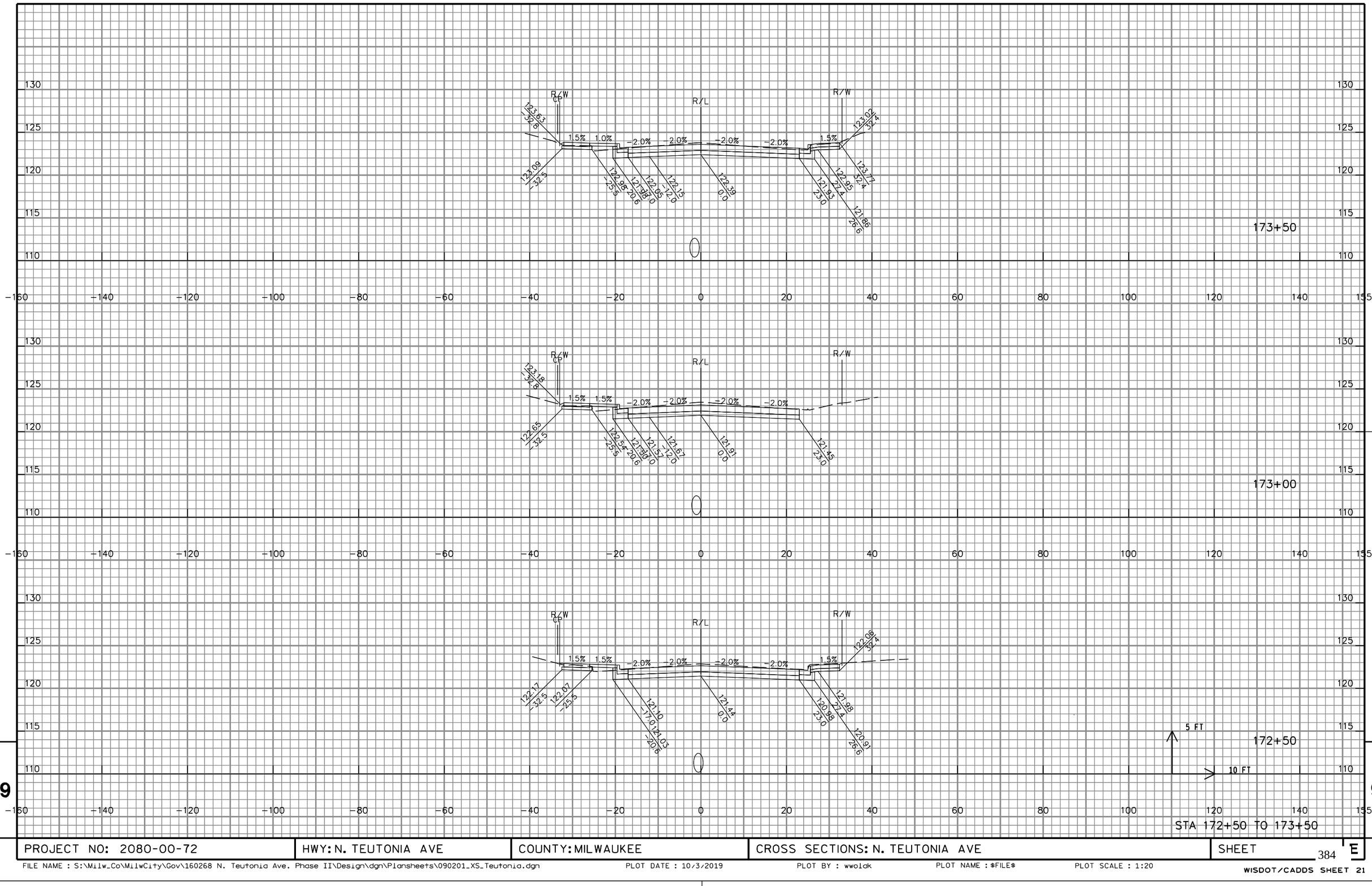


STA 171+00 TO 172+00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

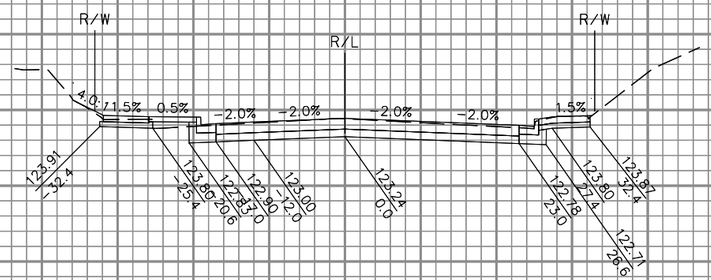


STA 172+50 TO 173+50

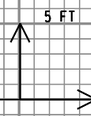
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 384 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



174+50



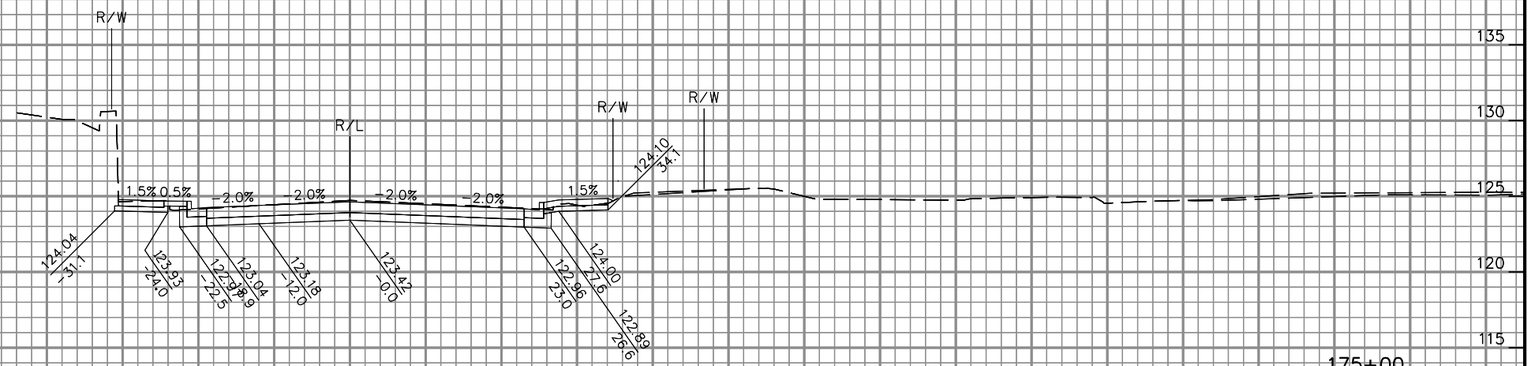
174+00

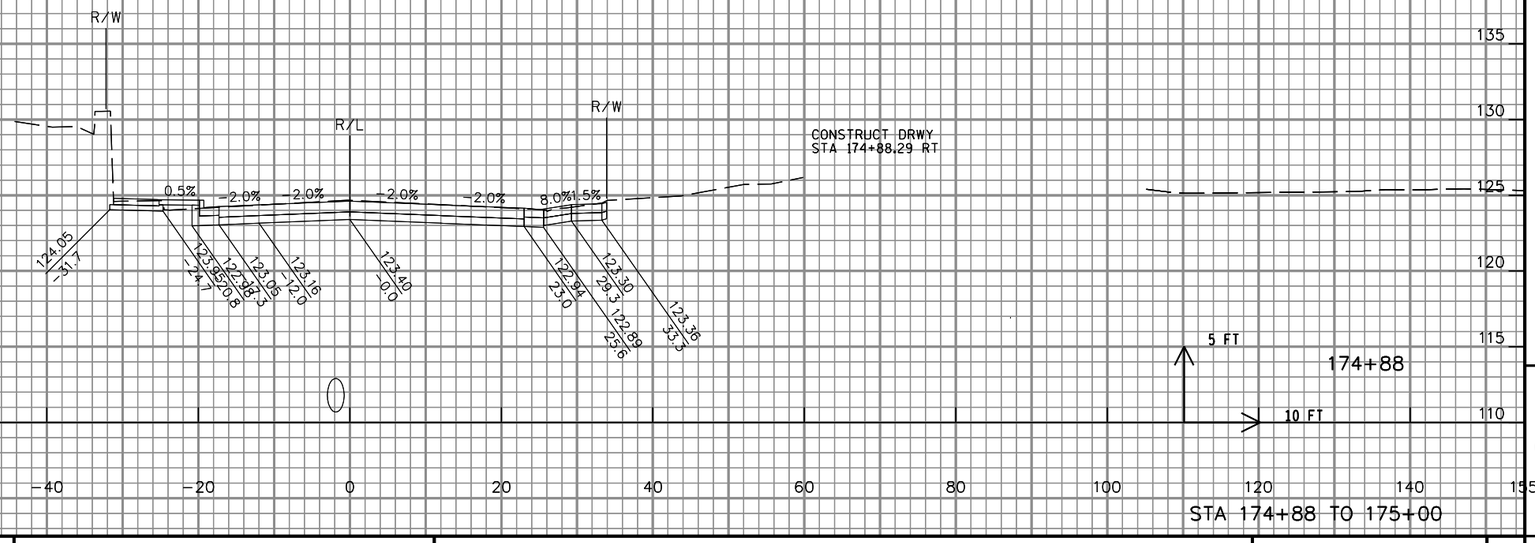
STA 174+00 TO 174+50

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





9

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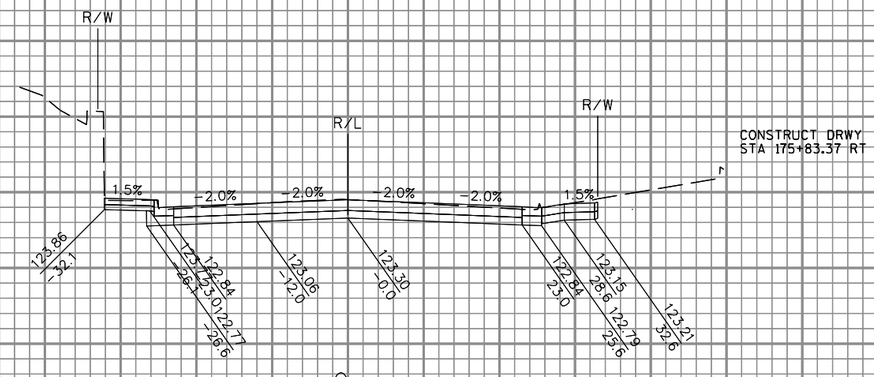
STA 174+88 TO 175+00

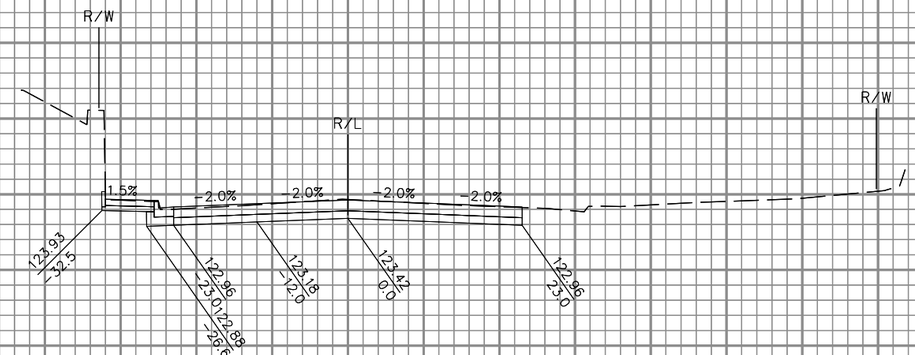
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



175+83



175+50

STA 175+50 TO 175+83

9

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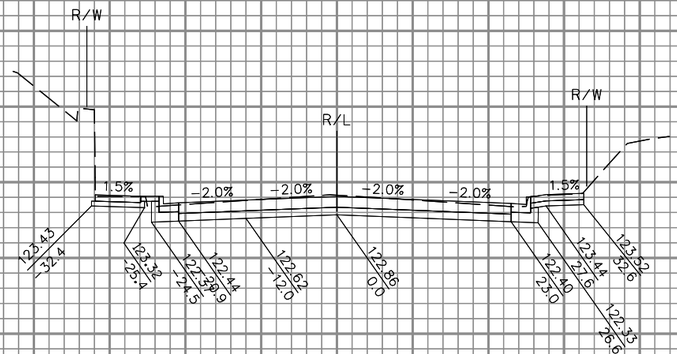
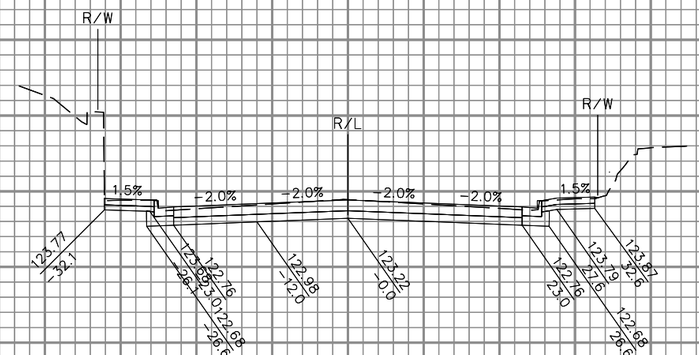
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



176+50



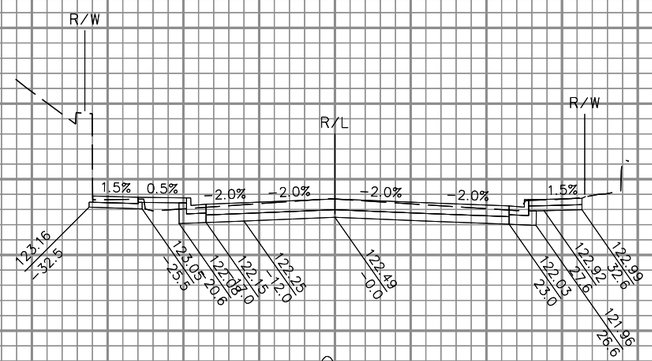
5 FT
10 FT
176+00

STA 176+00 TO 176+50

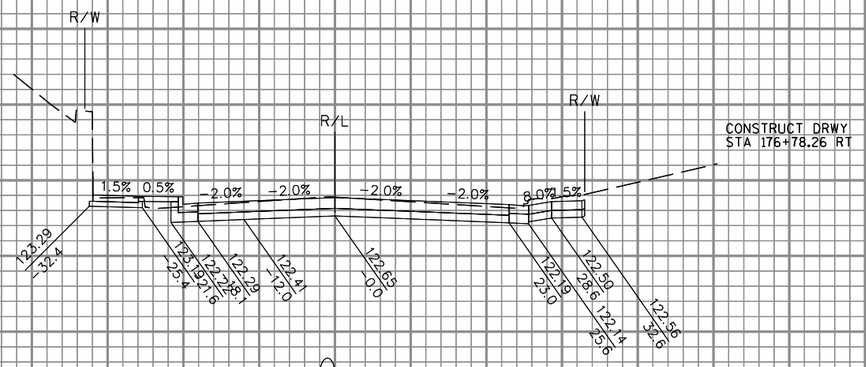
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

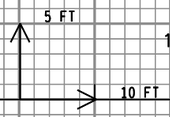
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



177+00





176+78

STA 176+78 TO 177+00

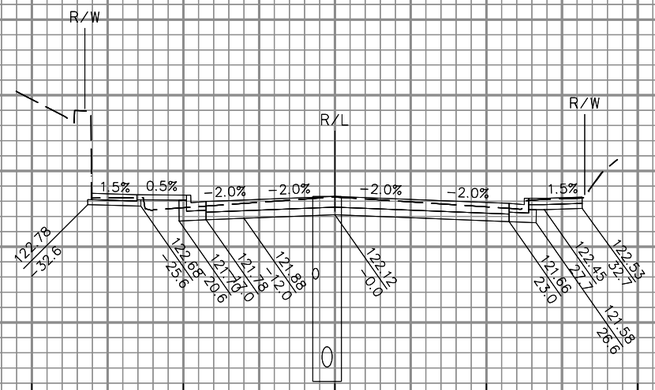
9

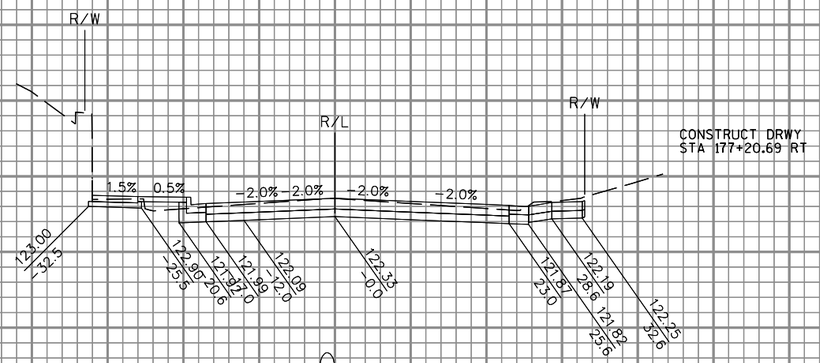
9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

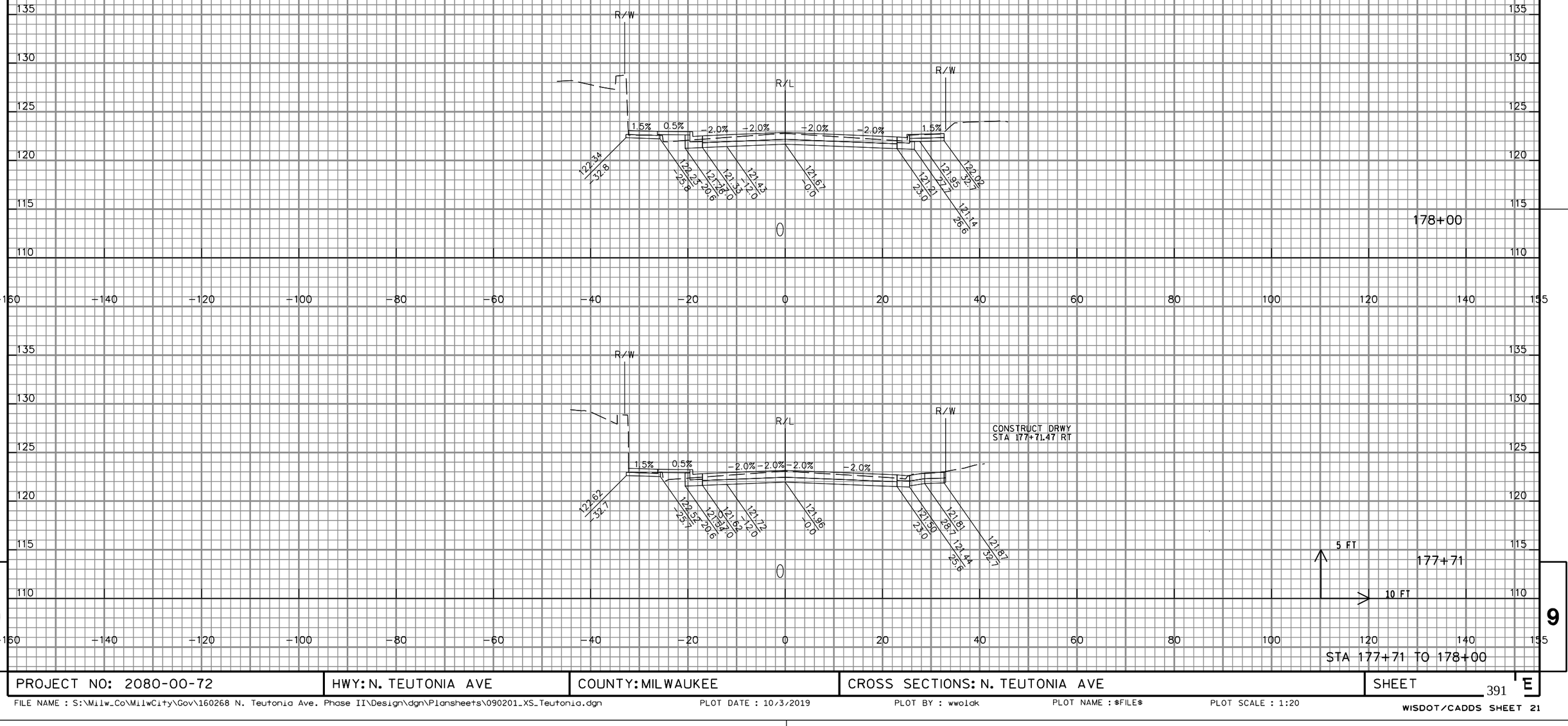




PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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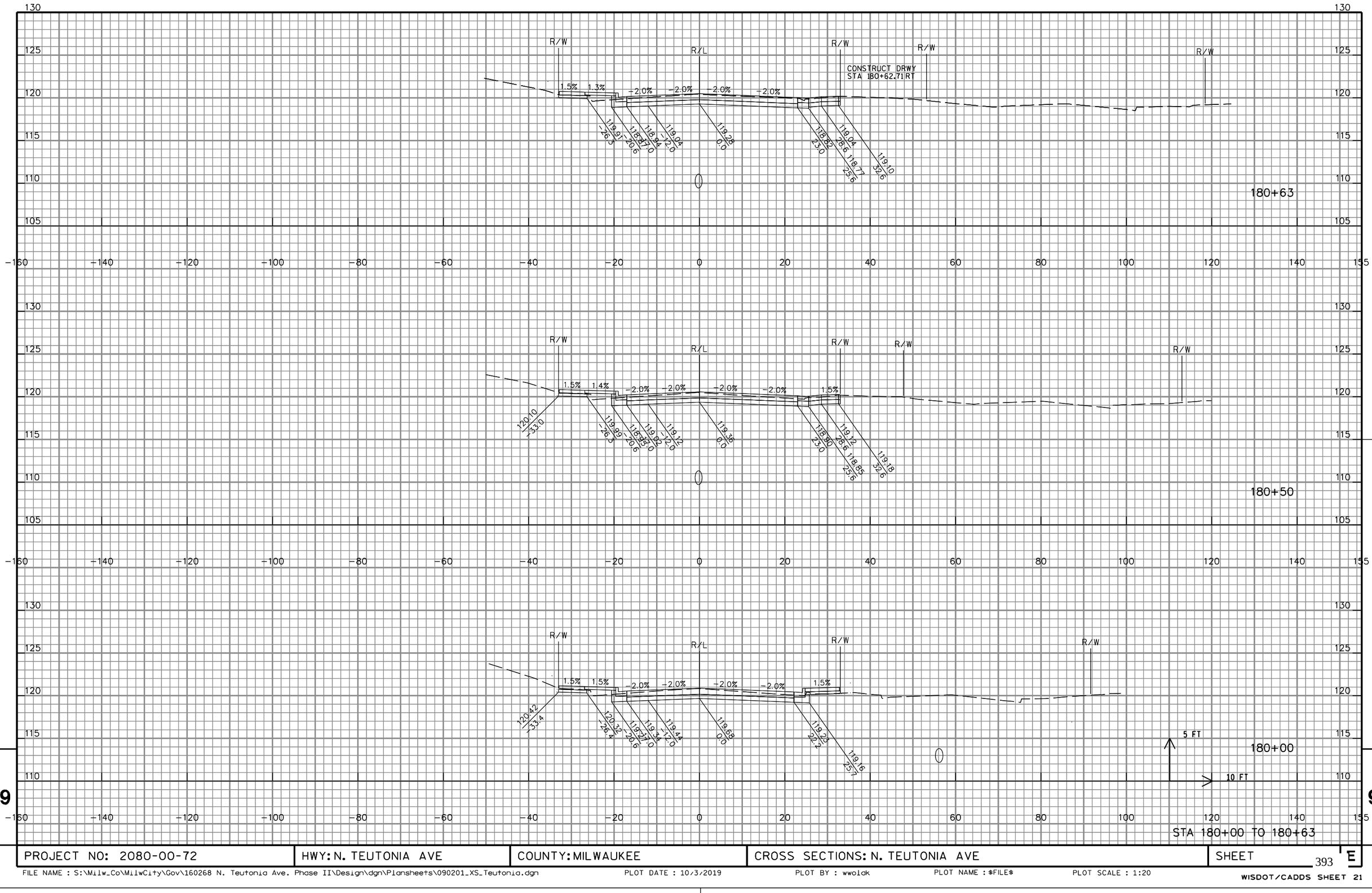
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 180+00 TO 180+63

9

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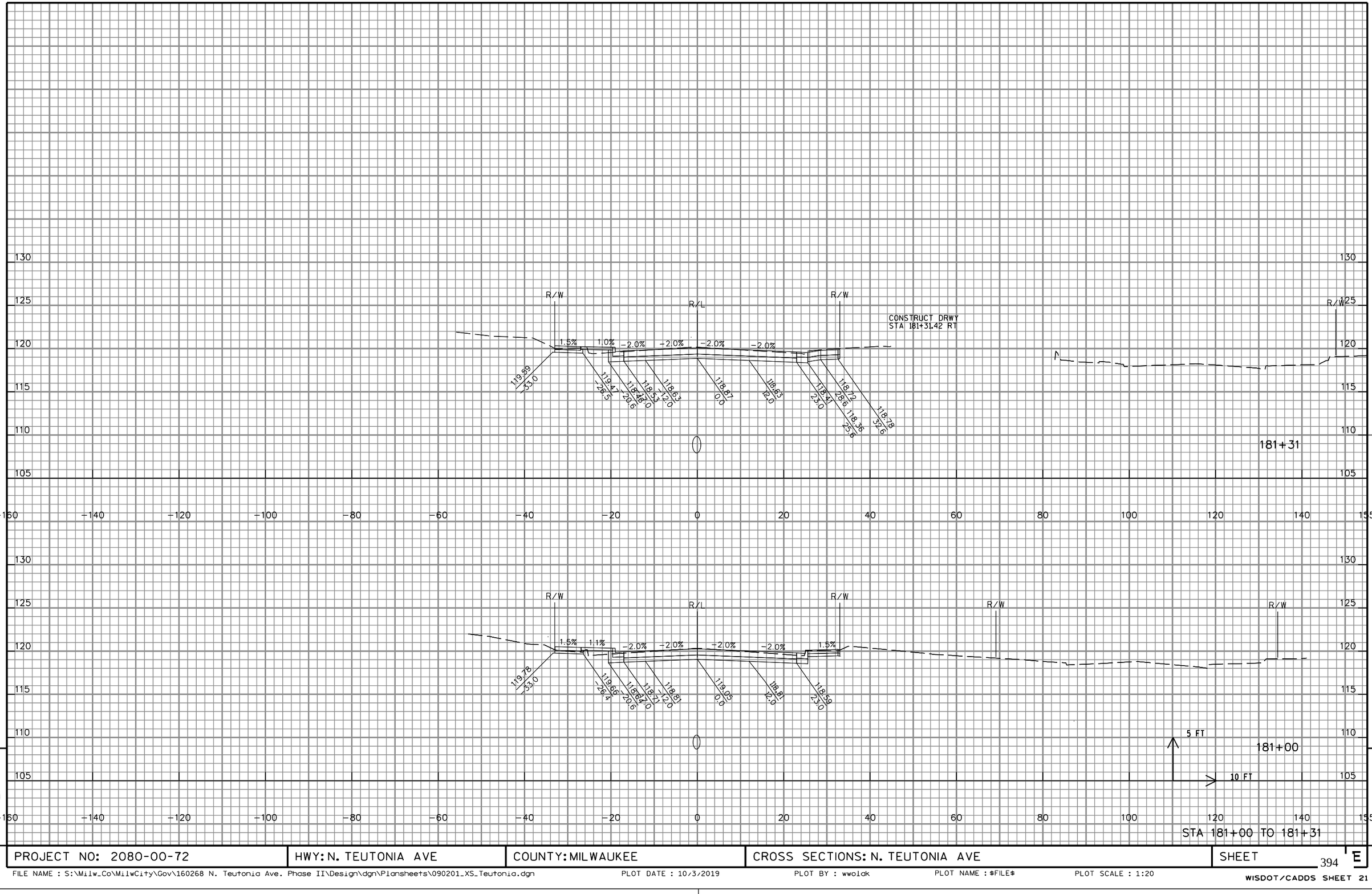
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

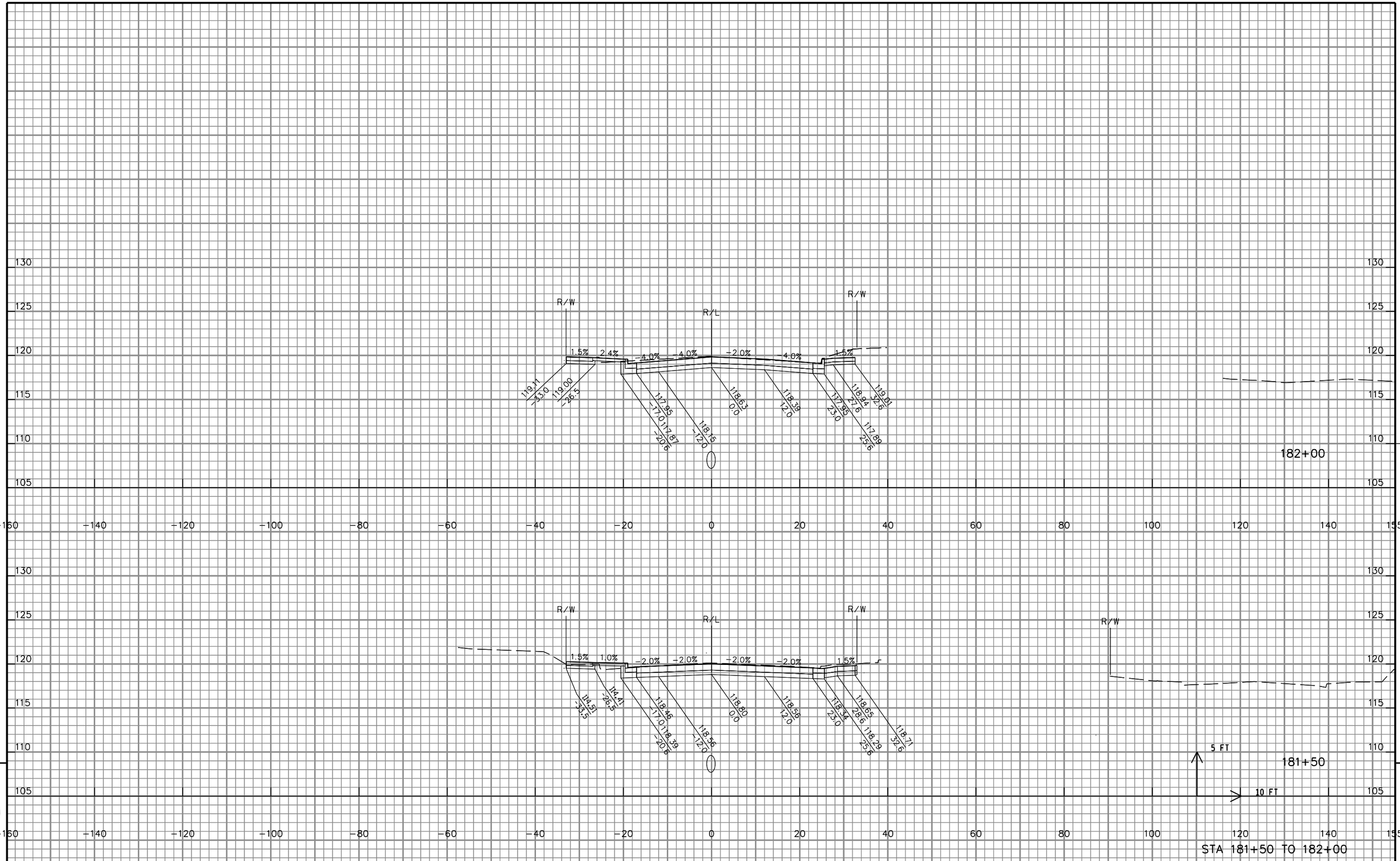
WISDOT/CADDS SHEET 21



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

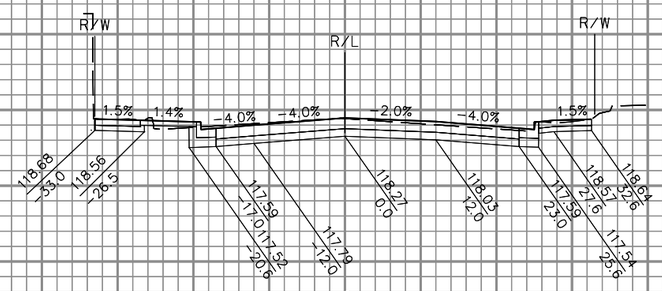
WISDOT/CADDS SHEET 21

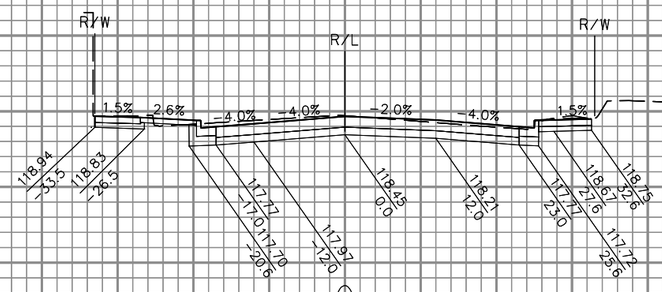


PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



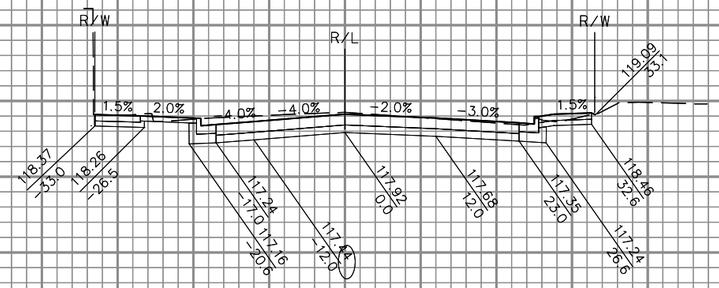


STA 182+50 TO 183+00

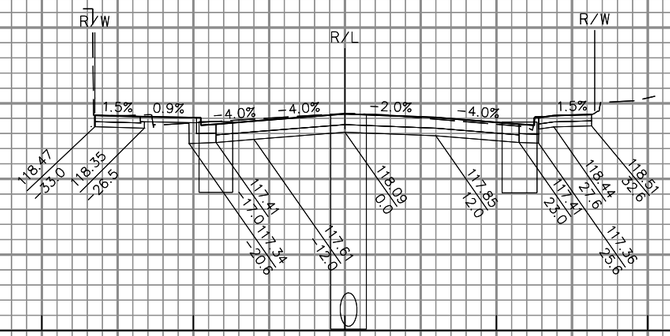
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



184+00



183+50

5 FT

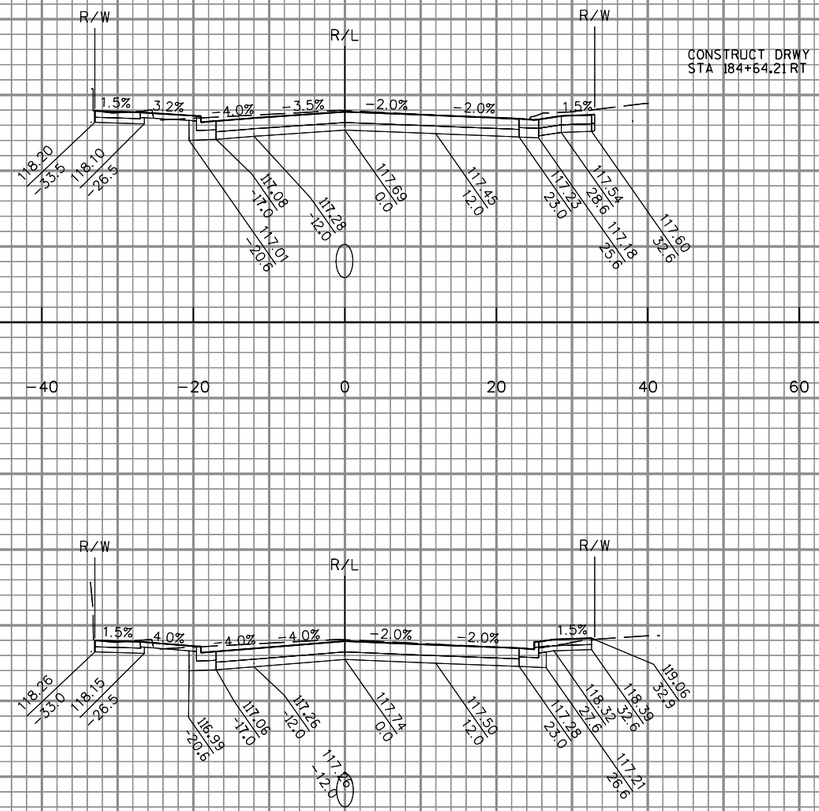
10 FT

STA 183+50 TO 184+00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

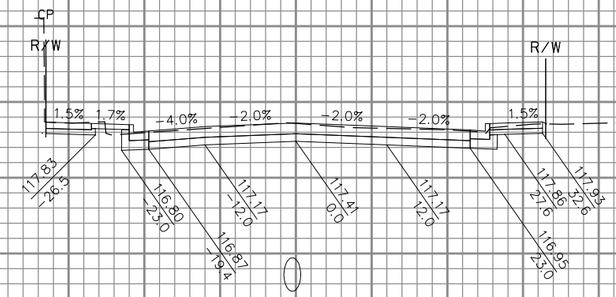


STA 184+50 TO 184+64

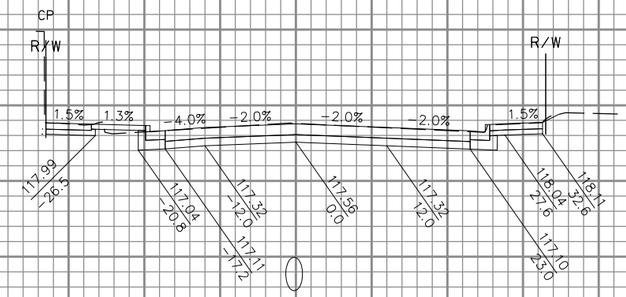
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090201_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



185+50



185+00

5 FT

10 FT

STA 185+00 TO 185+50

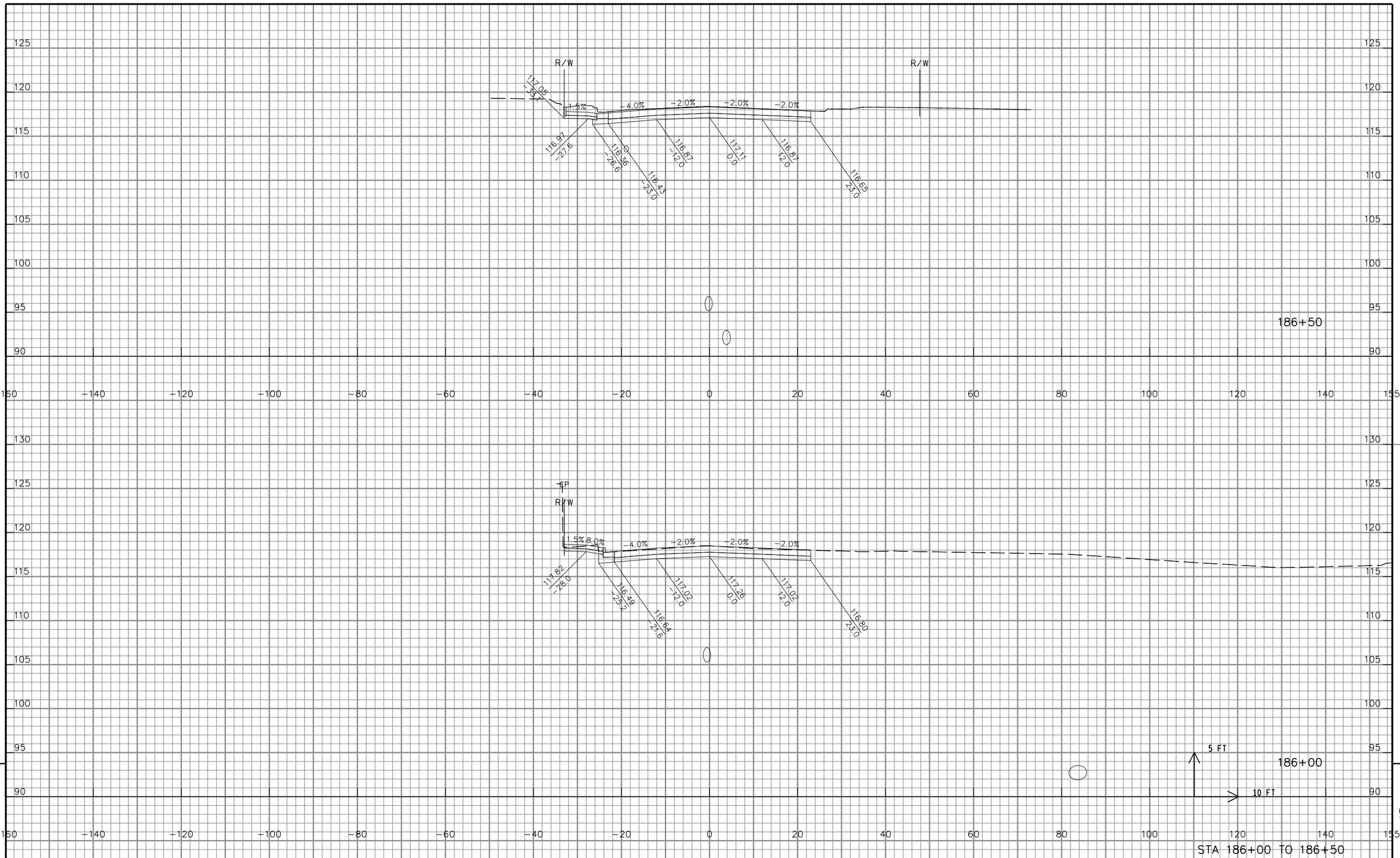
9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 399 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

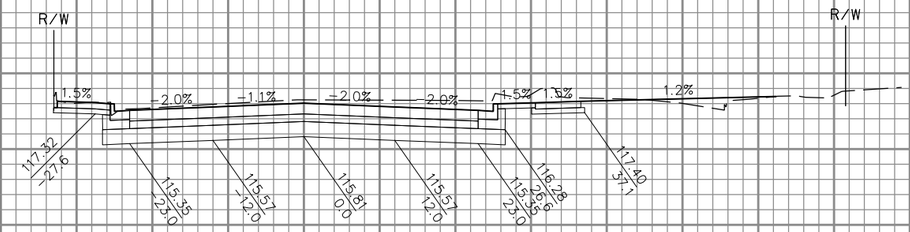
WISDOT/CADDS SHEET 21

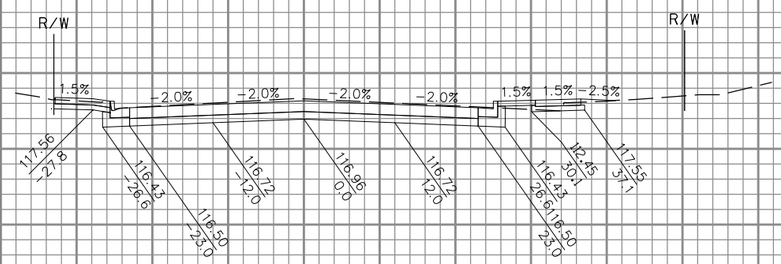


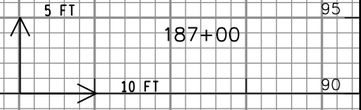
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 400 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21







187+50

187+00

STA 187+00 TO 187+50

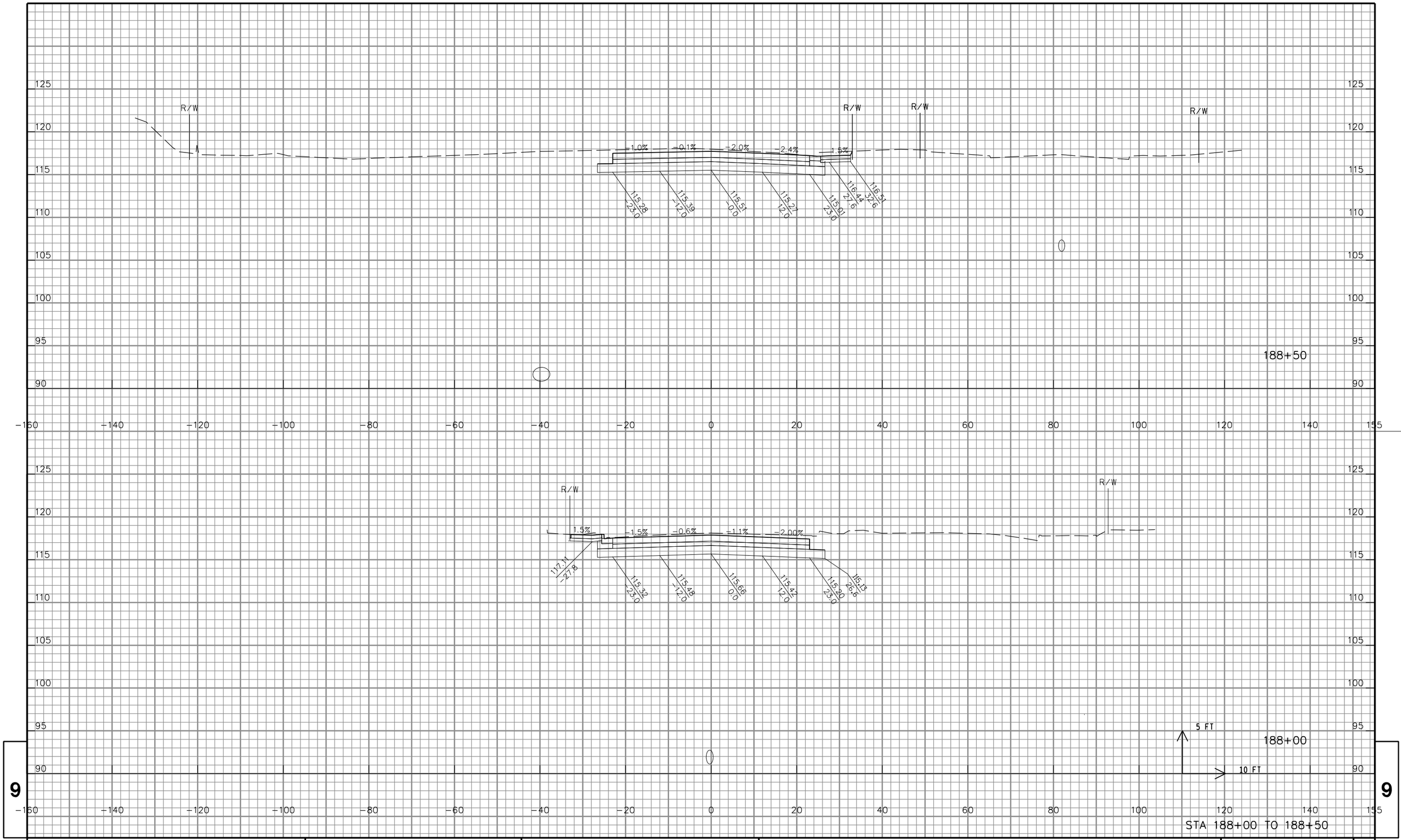
9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 401 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

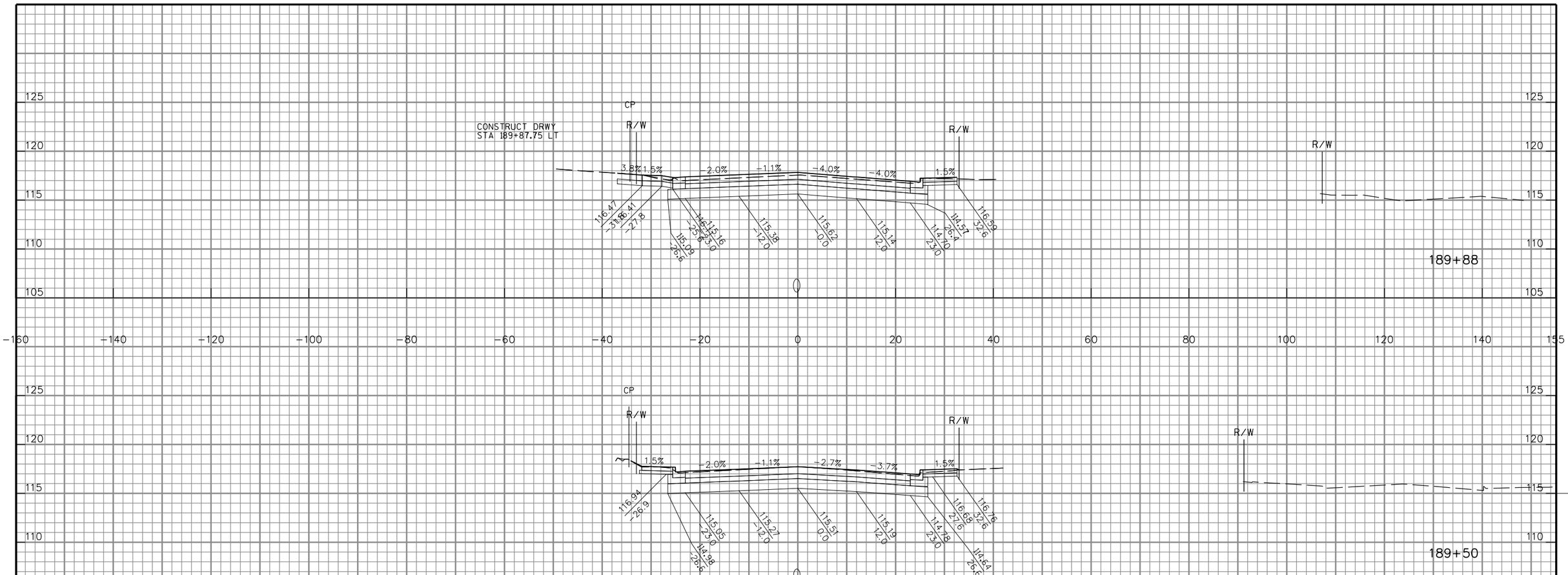
WISDOT/CADDS SHEET 21



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 402 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

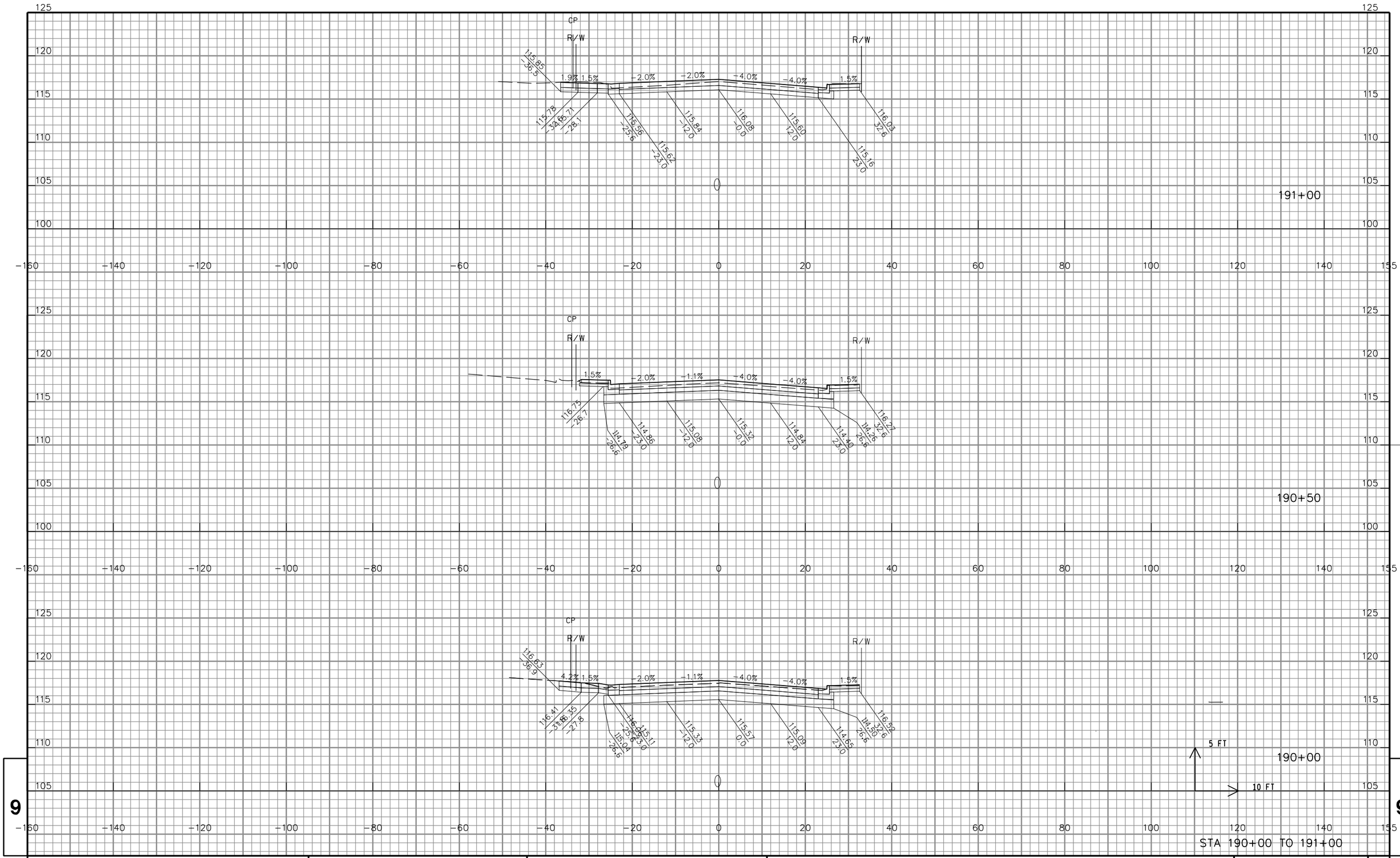
WISDOT/CADDS SHEET 21



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 403 E

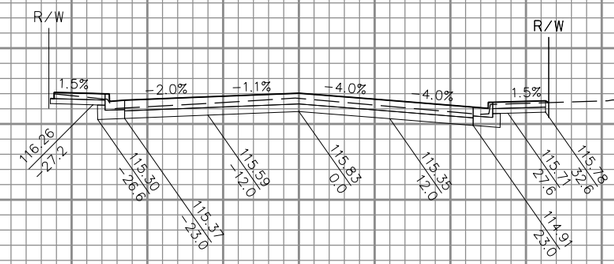
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

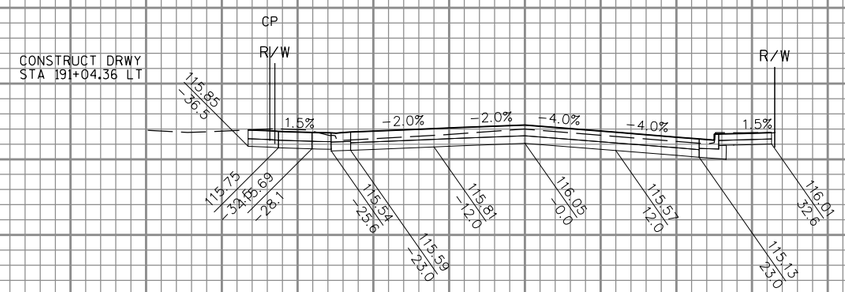
WISDOT/CADDS SHEET 21

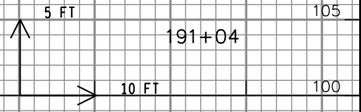


PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 404 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21







191+50

STA 191+04 TO 191+50

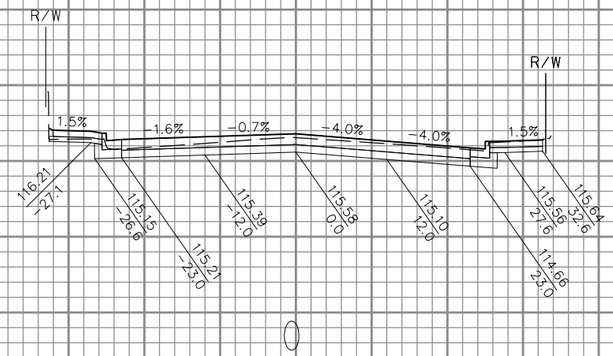
9

9

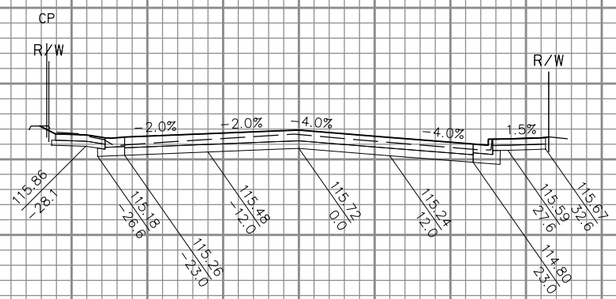
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 405 E

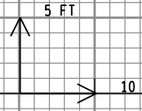
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



192+00





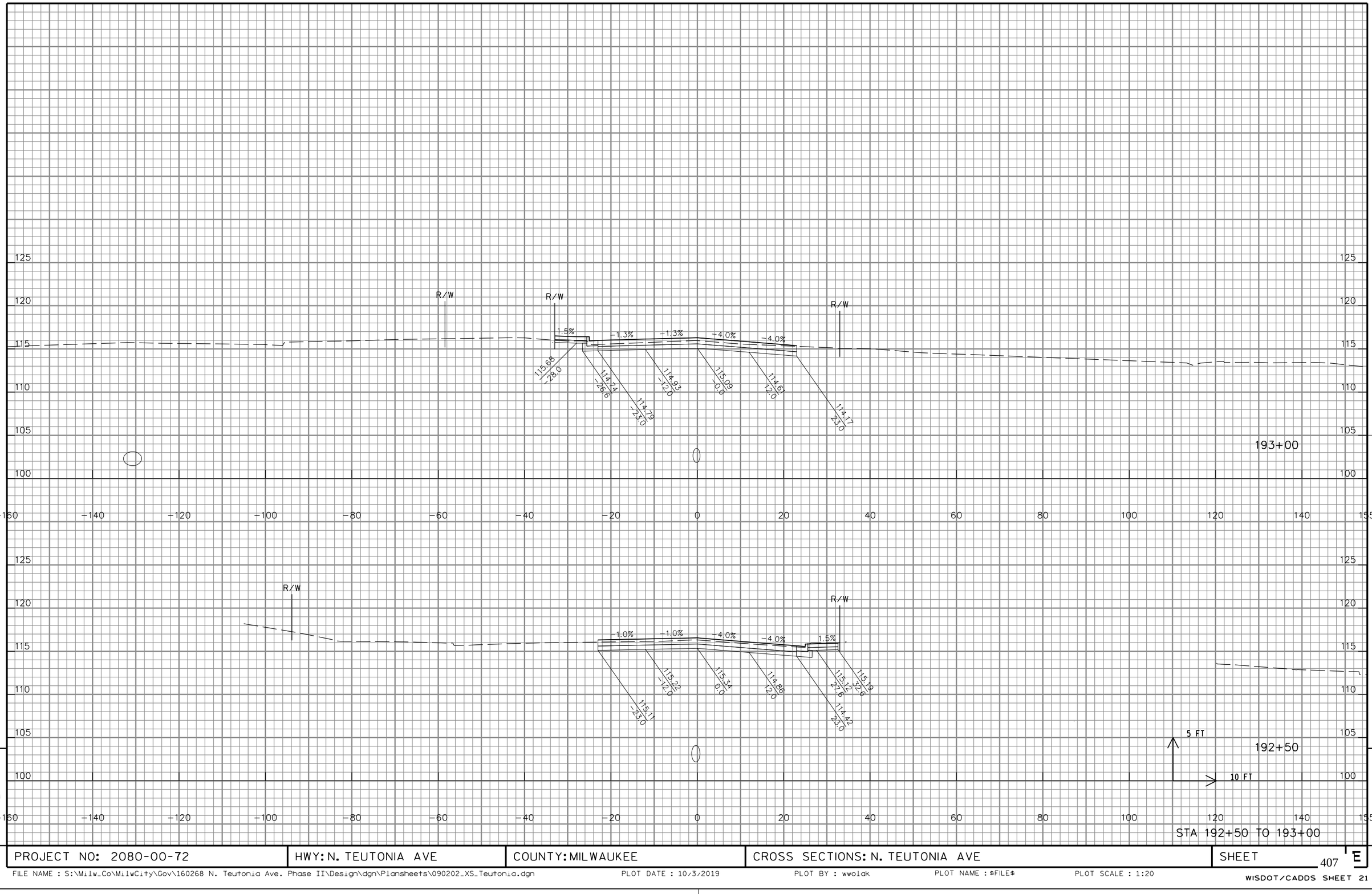
191+73

STA 191+73 TO 192+00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 406 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



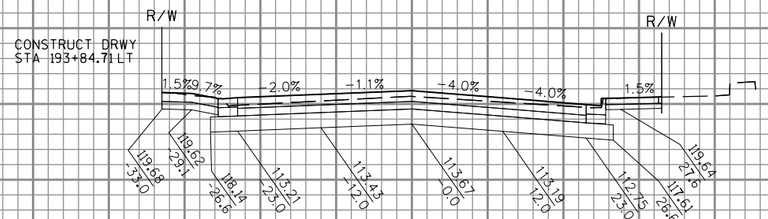
9

9

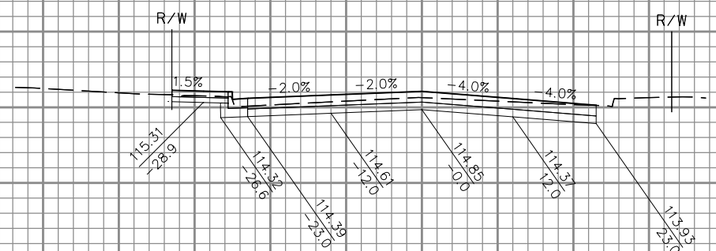
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 407 E

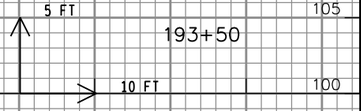
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



193+85





193+50

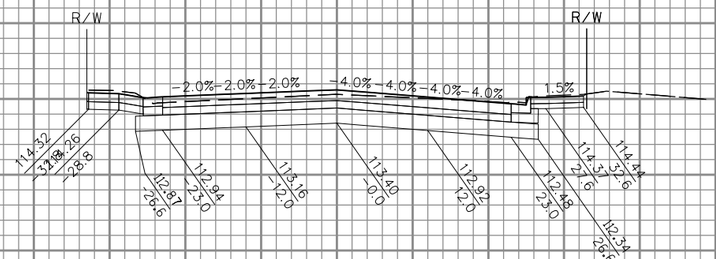
STA 193+50 TO 193+85

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 408 E

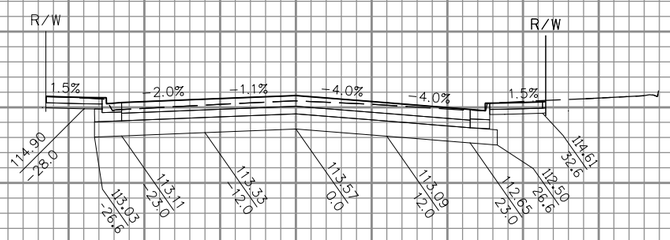
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

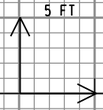
WISDOT/CADDS SHEET 21

CONSTRUCT DRWY
STA 194+23.28 LT



194+23





194+00

STA 194+00 TO 194+23

9

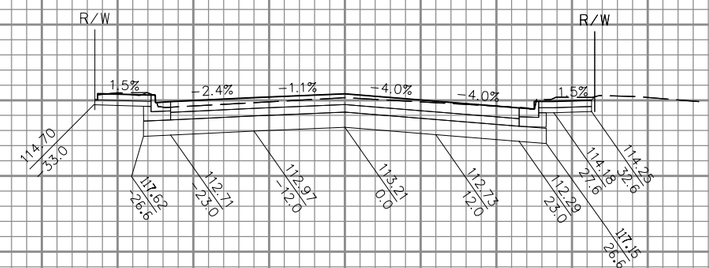
9

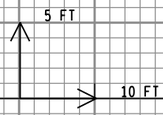
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 409 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

195+00





194+50

STA 194+50 TO 195+00

9

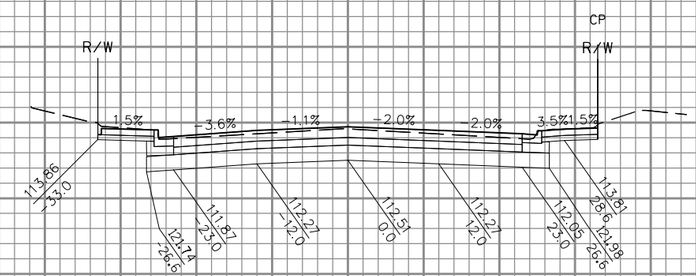
9

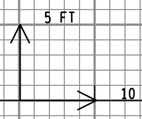
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 410 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

195+59





195+50

STA 195+50 TO 195+59

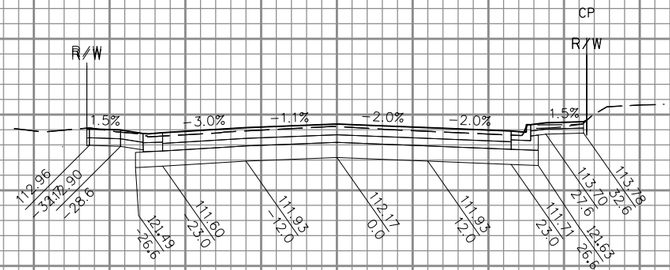
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 411 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

CONSTRUCT DRWY
STA 196+01.34 LT

196+01



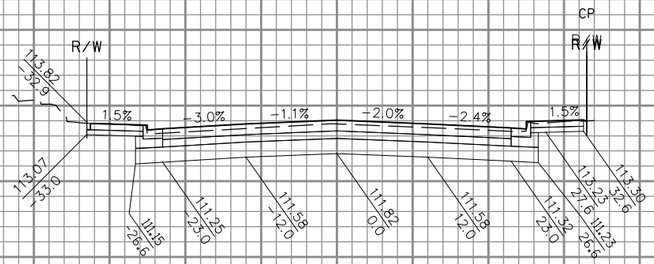
5 FT
10 FT
196+00

STA 196+00 TO 196+01

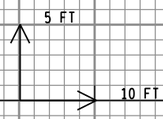
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 412 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



196+50



196+18

STA 196+18 TO 196+50

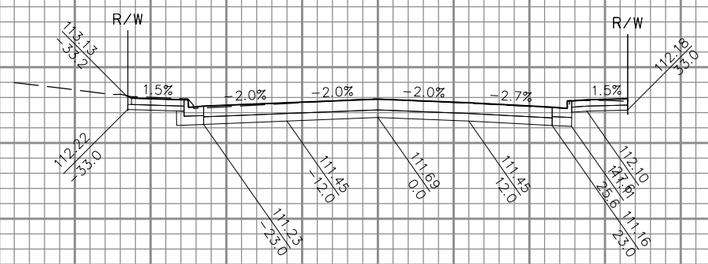
9

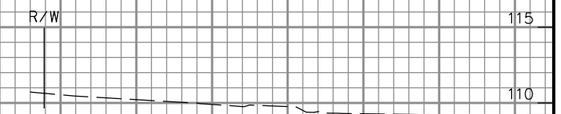
9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 413 E

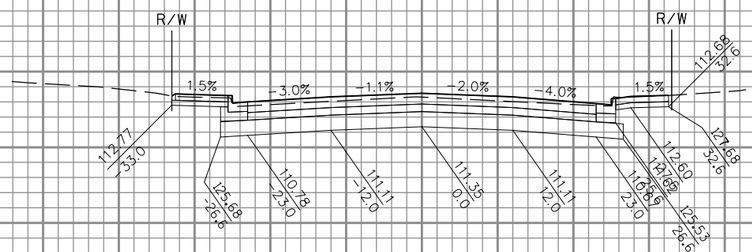
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

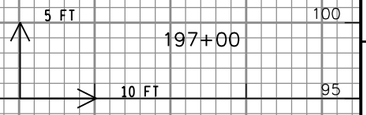
WISDOT/CADDS SHEET 21





197+50





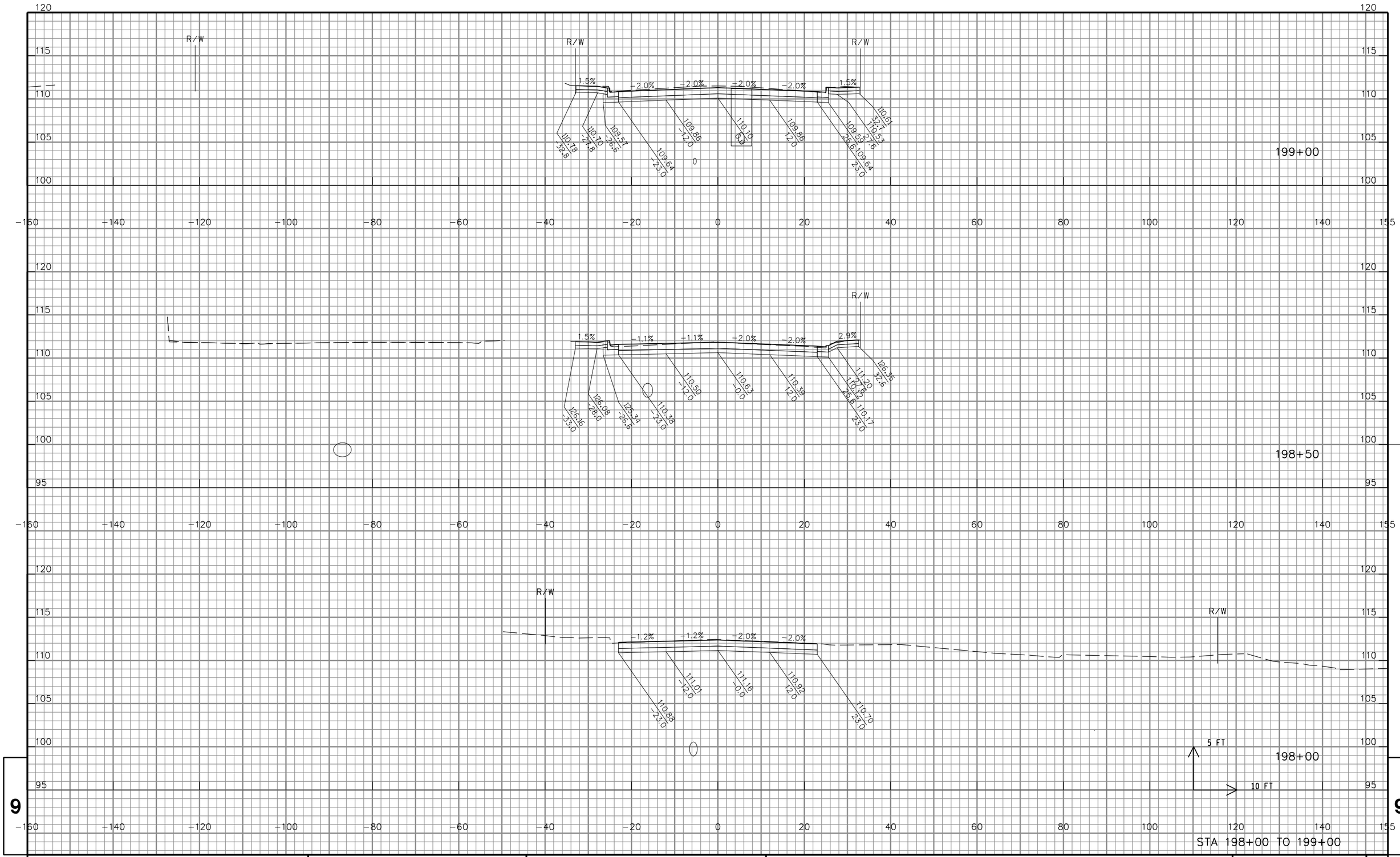
197+00

STA 197+00 TO 197+50

9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 414 E



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STA 198+00 TO 199+00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 415 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9

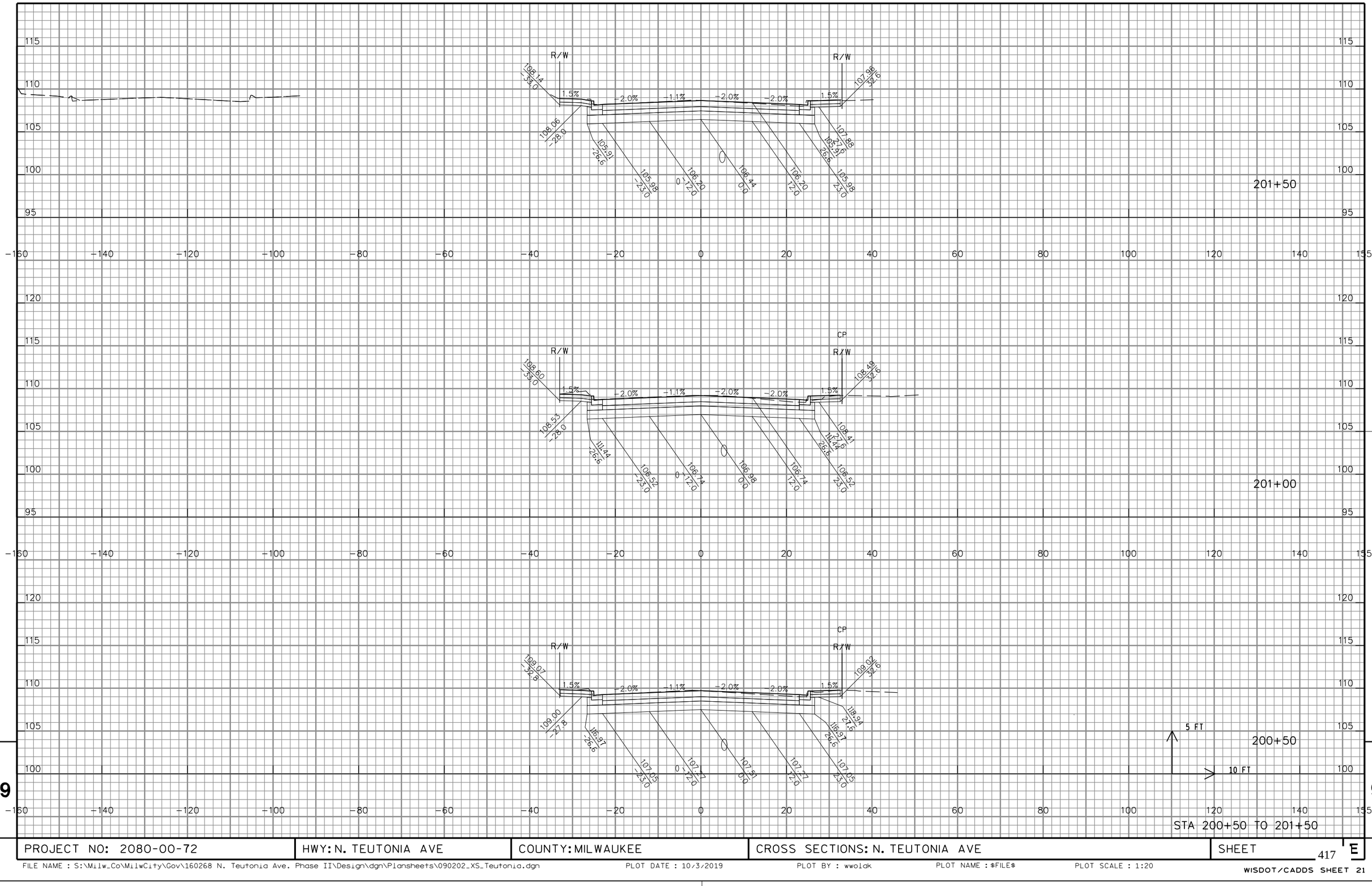
9

STA 199+50 TO 200+26

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 416 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 200+50 TO 201+50

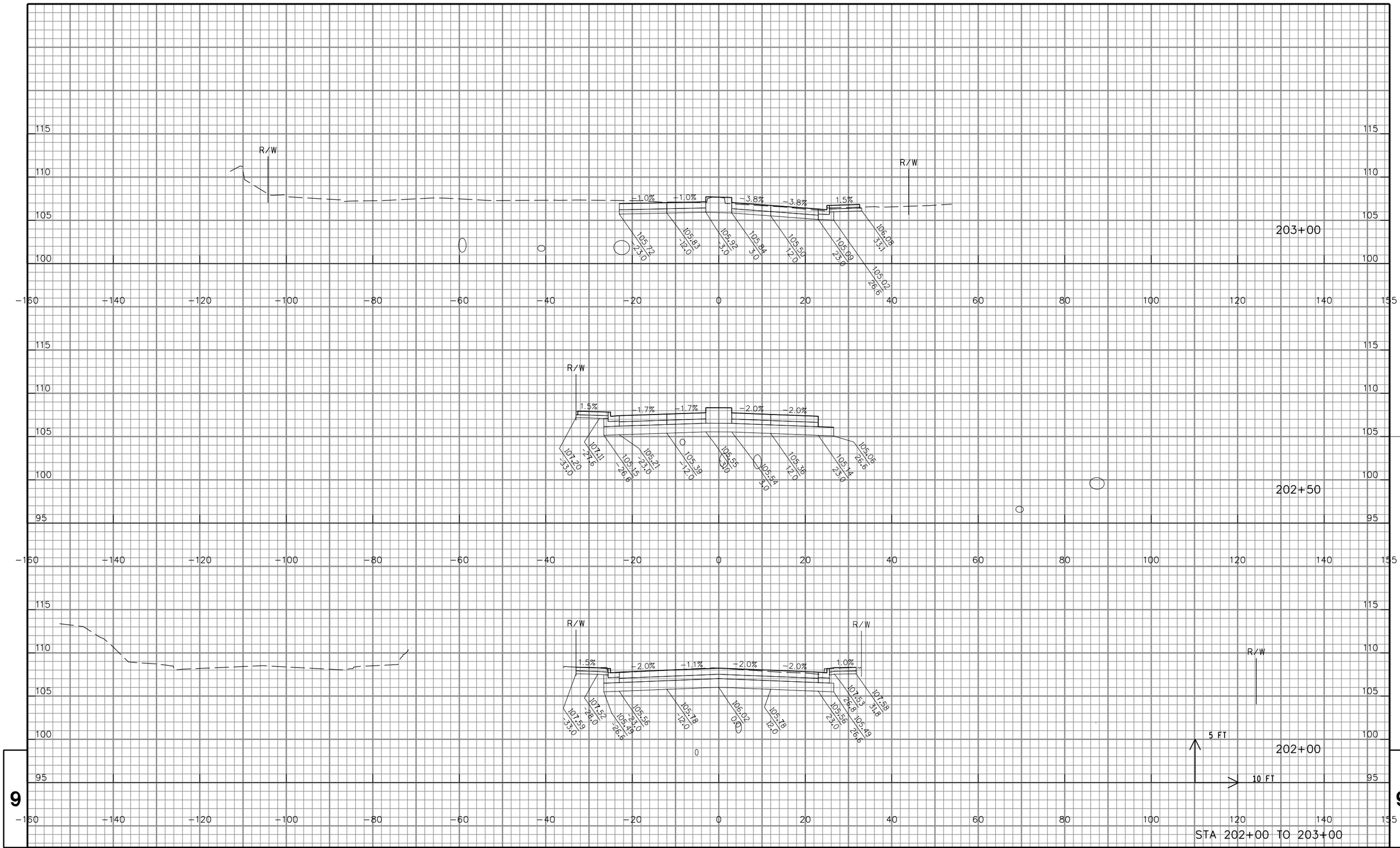
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 417 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9

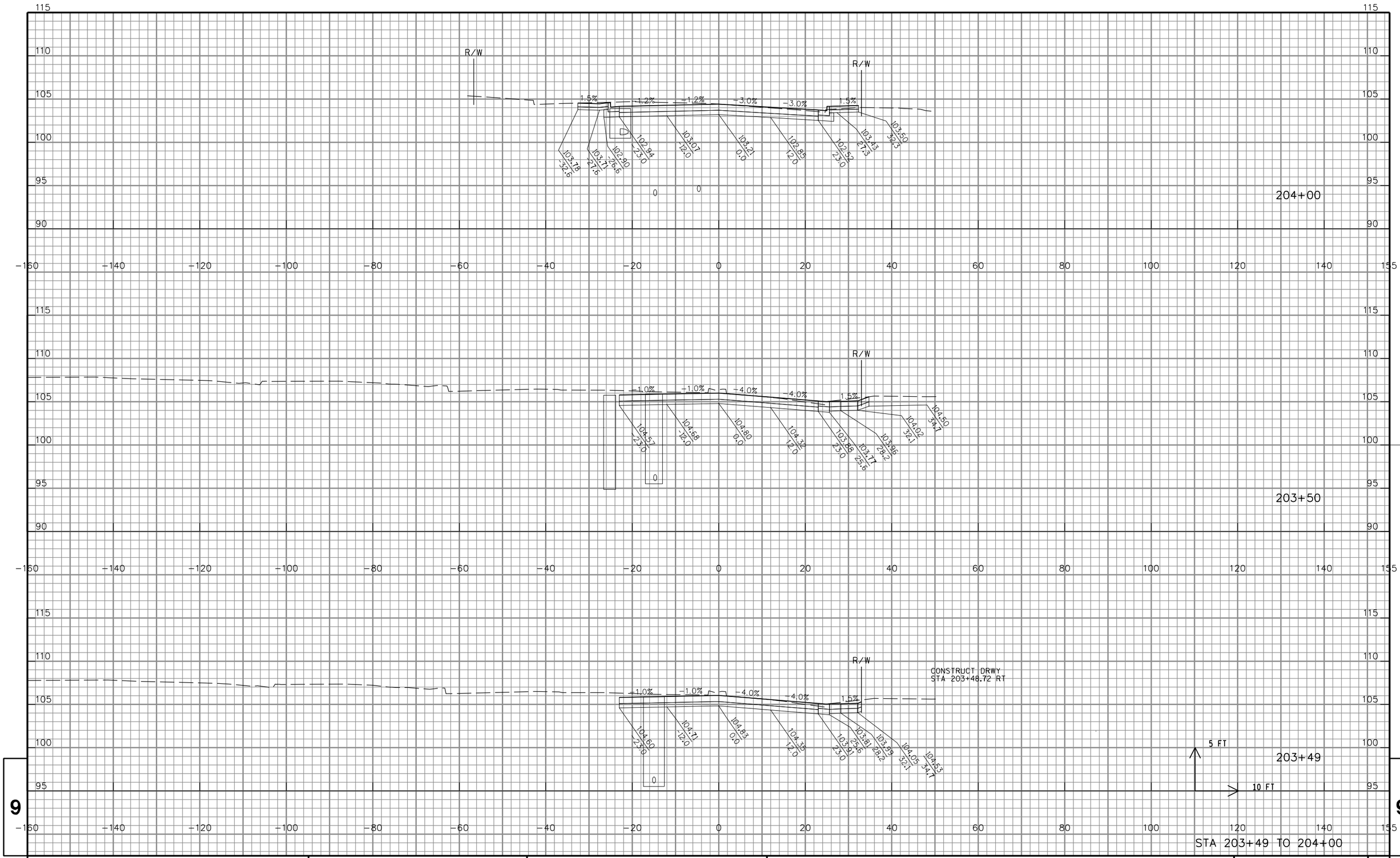
9



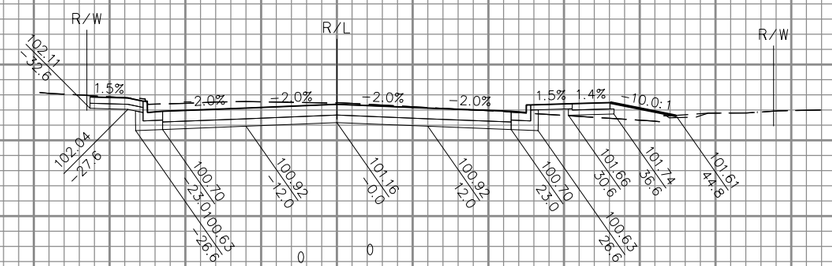
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 418 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

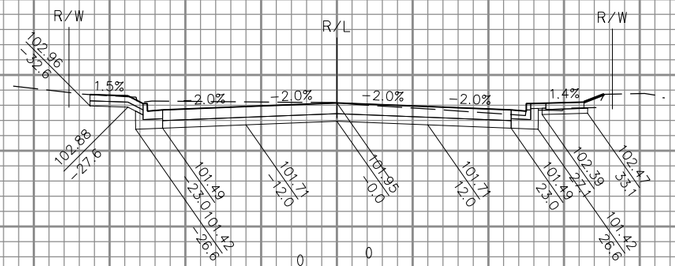
WISDOT/CADDS SHEET 21



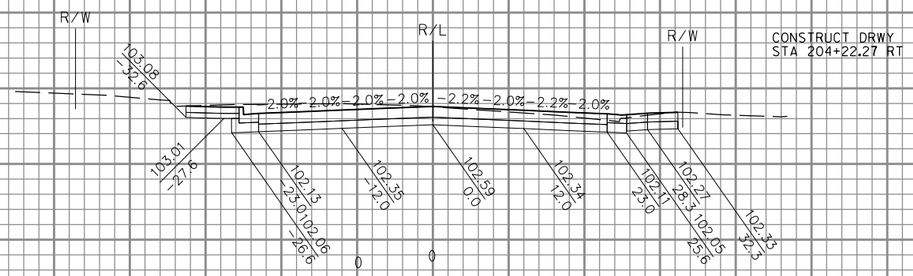
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 419 E



205+00



204+50



204+22

5 FT

10 FT

STA 204+22 TO 205+00

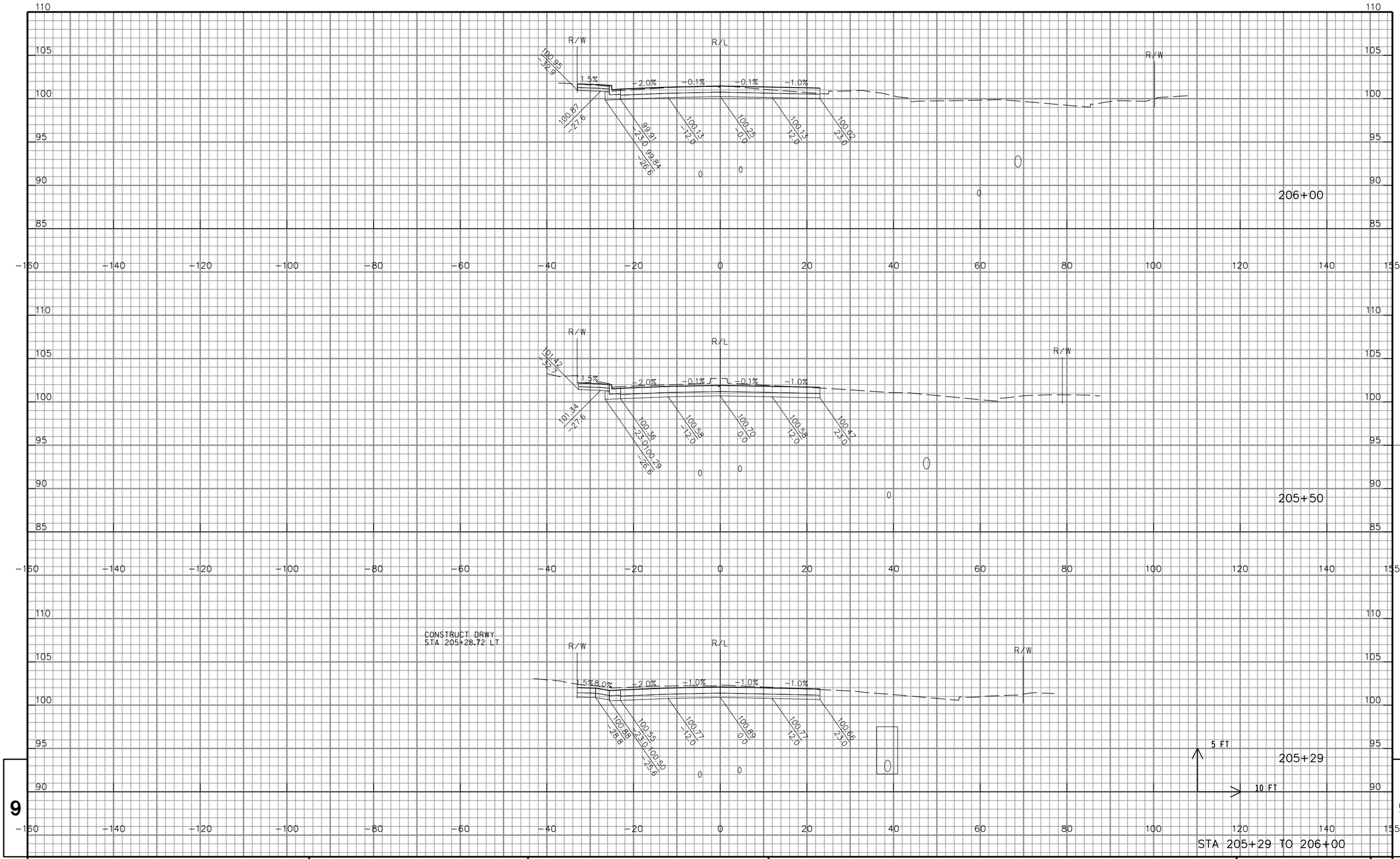
9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 420 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

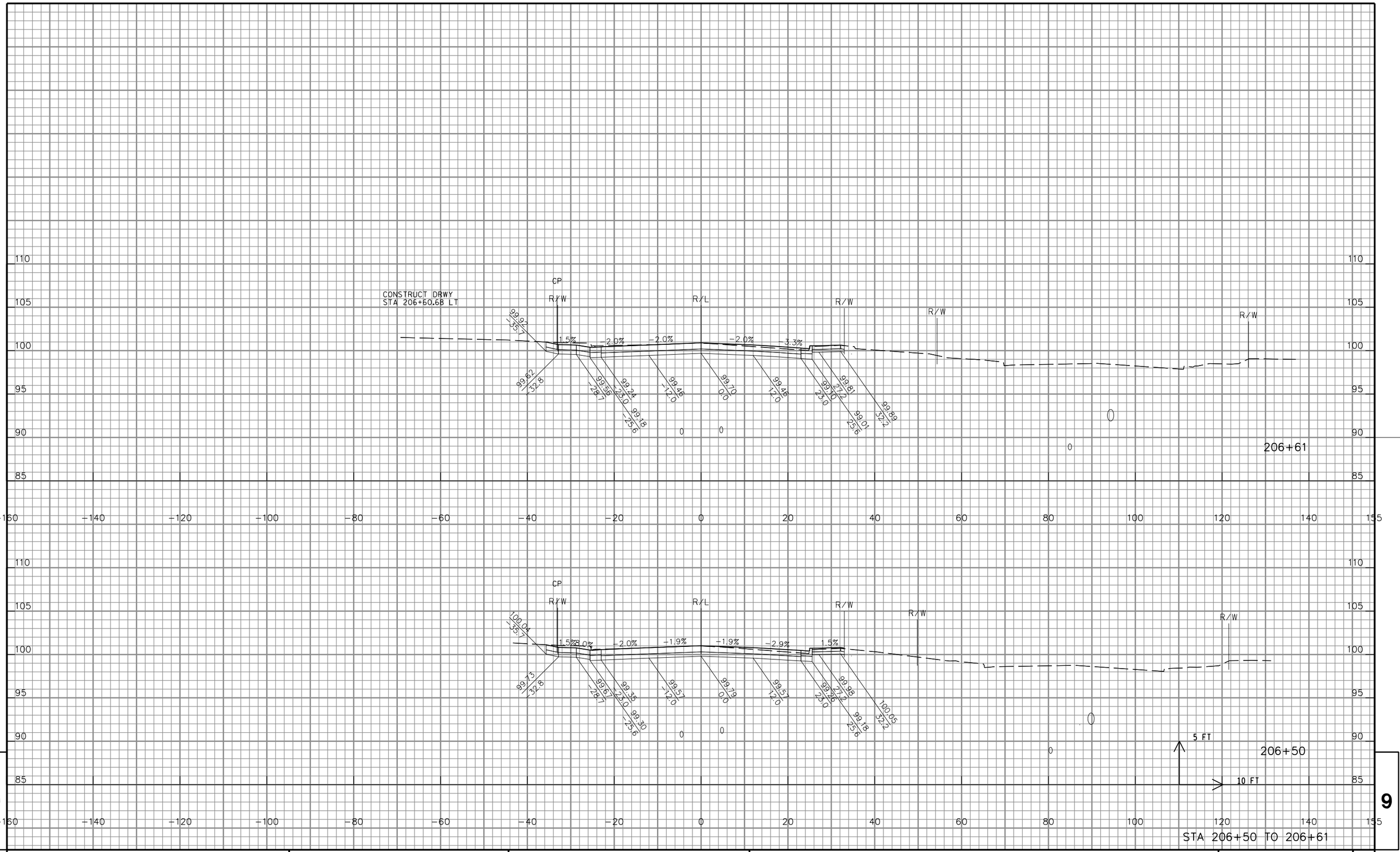
WISDOT/CADDS SHEET 21



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 421 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

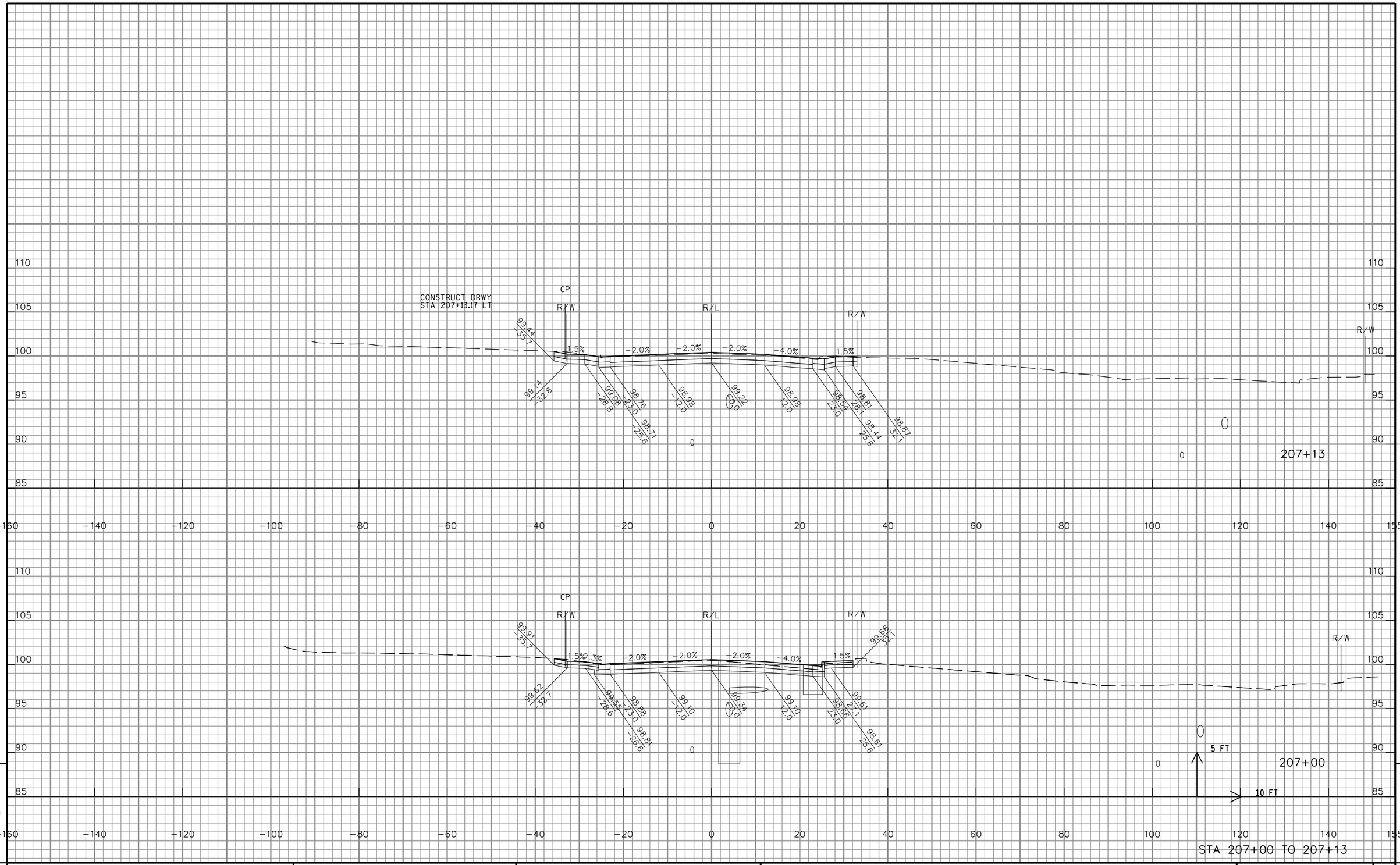


STA 206+50 TO 206+61

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 422 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



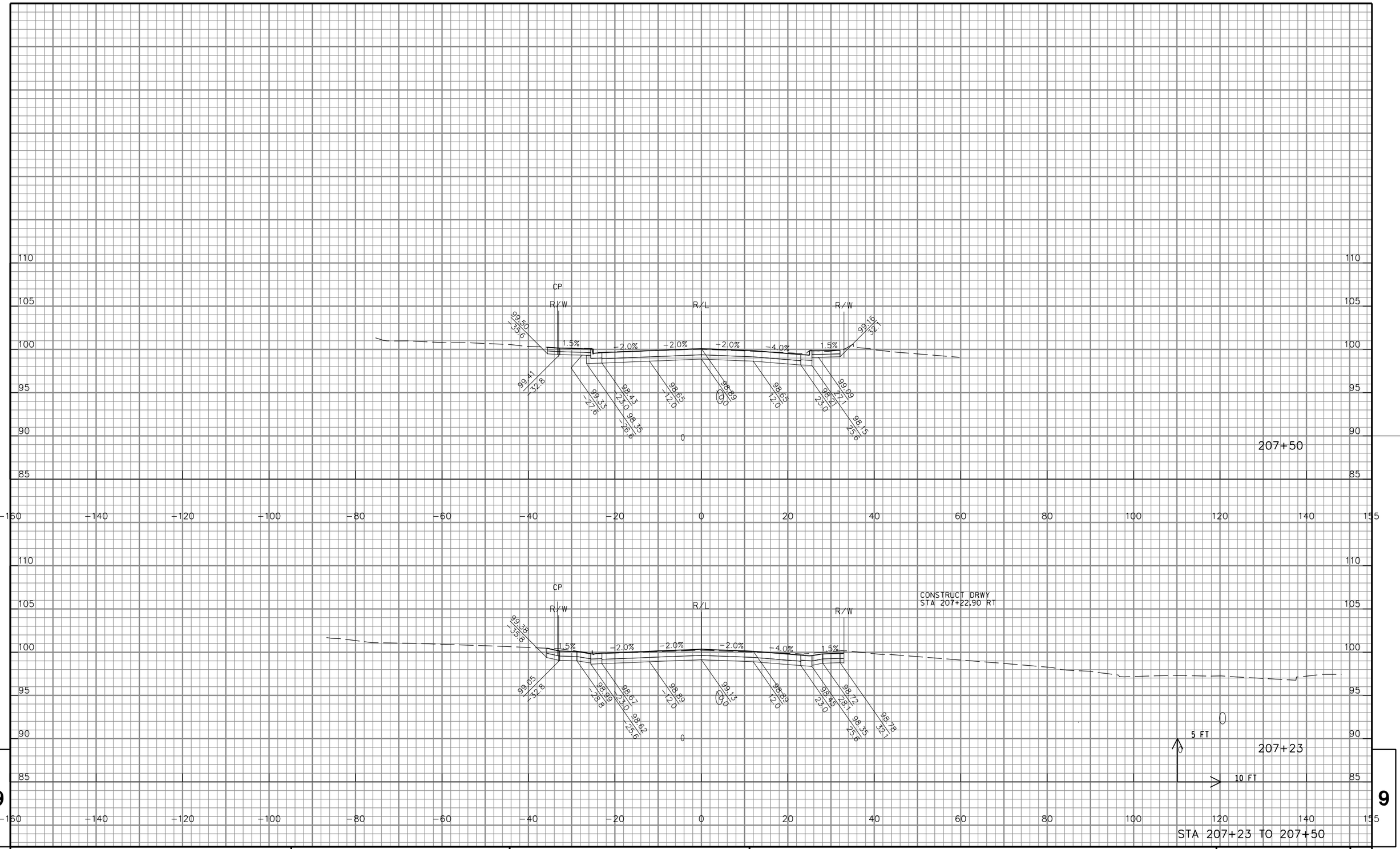
9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 423 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



9

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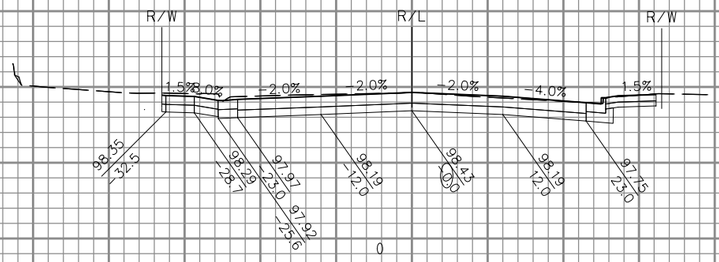
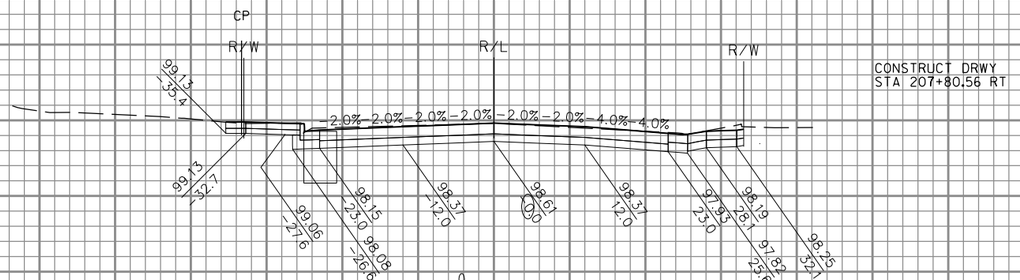
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 424 E

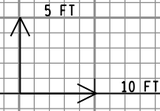
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



208+00





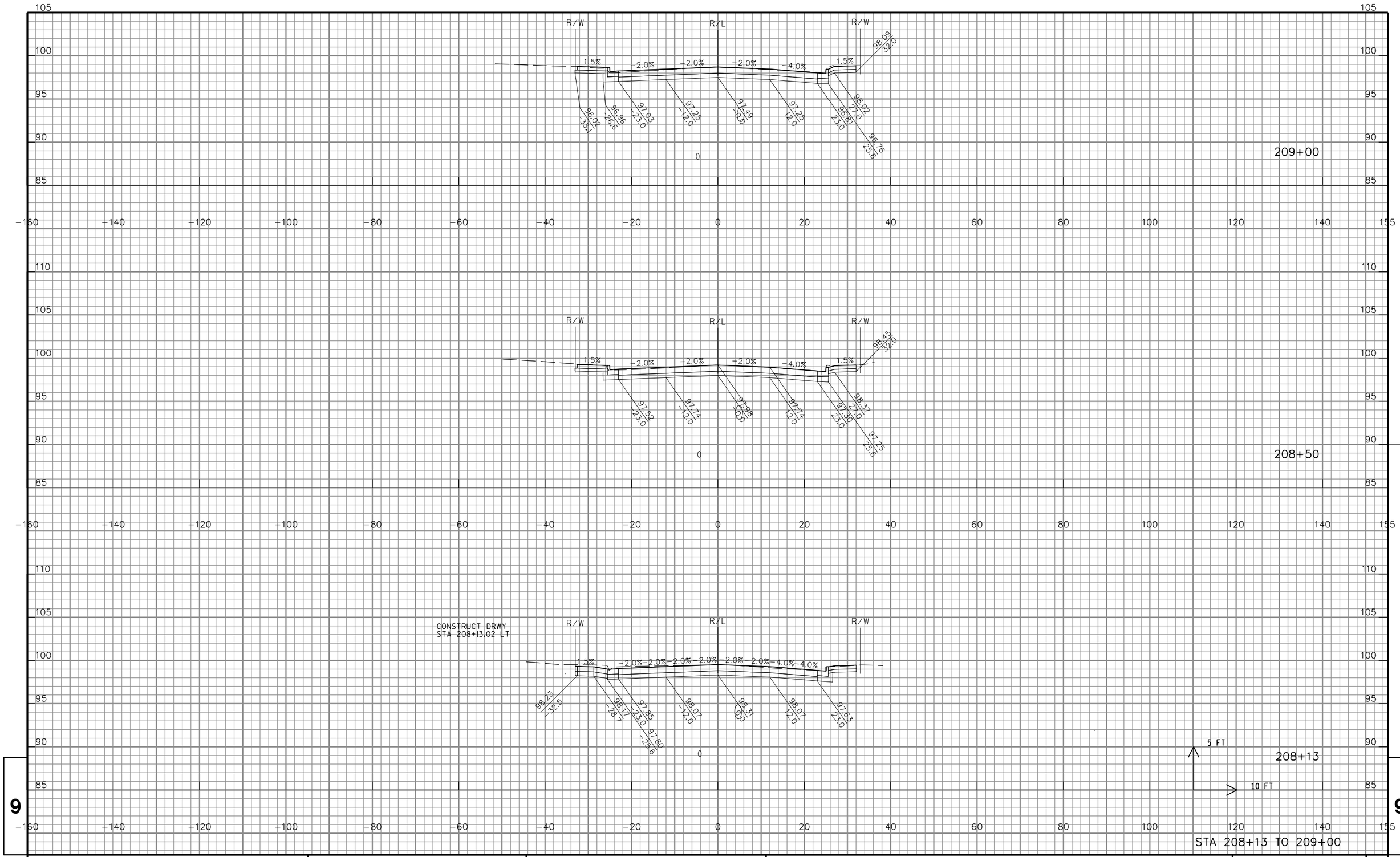
207+81

STA 207+81 TO 208+00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 425 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

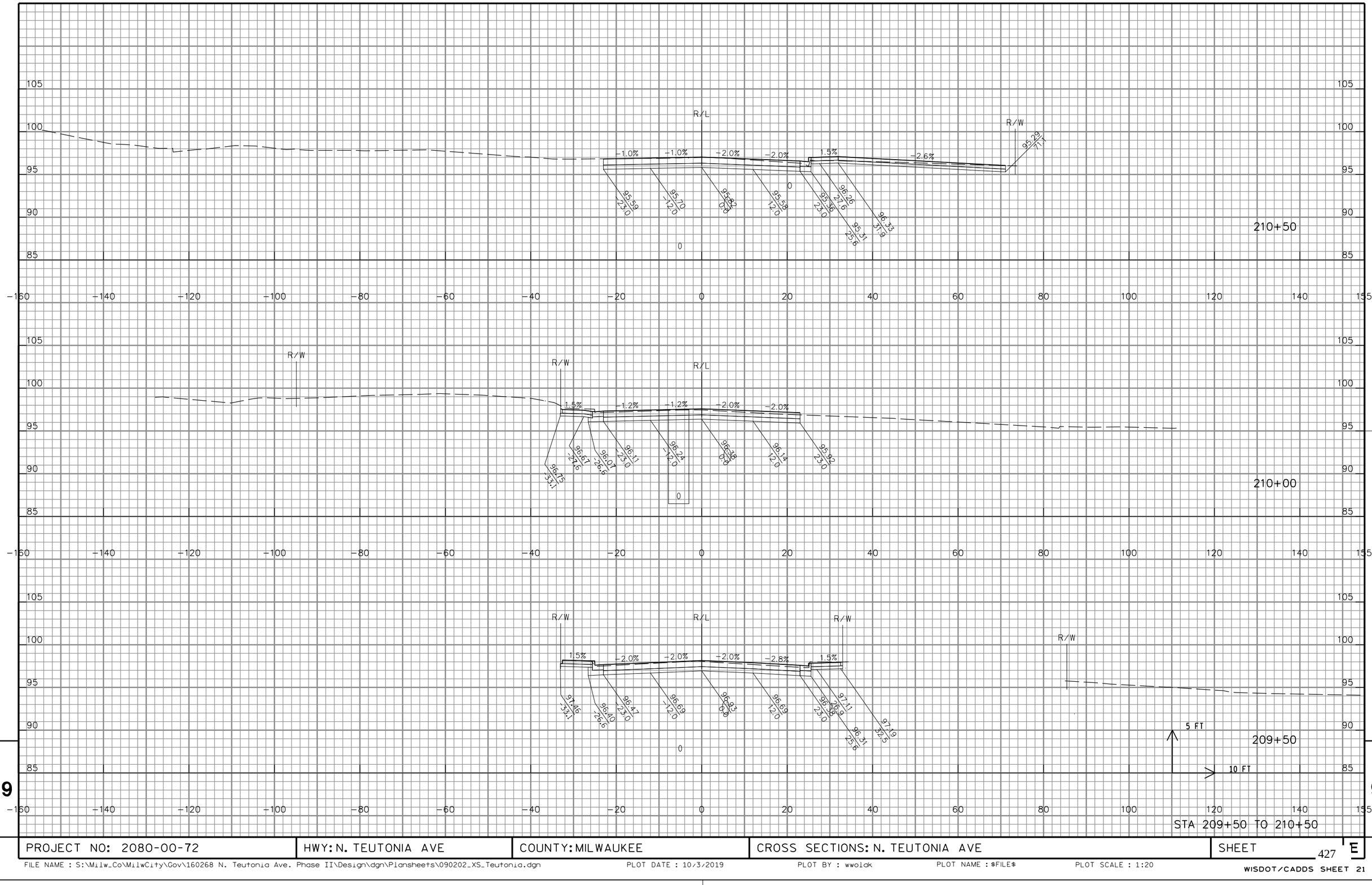
WISDOT/CADDS SHEET 21



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 426 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

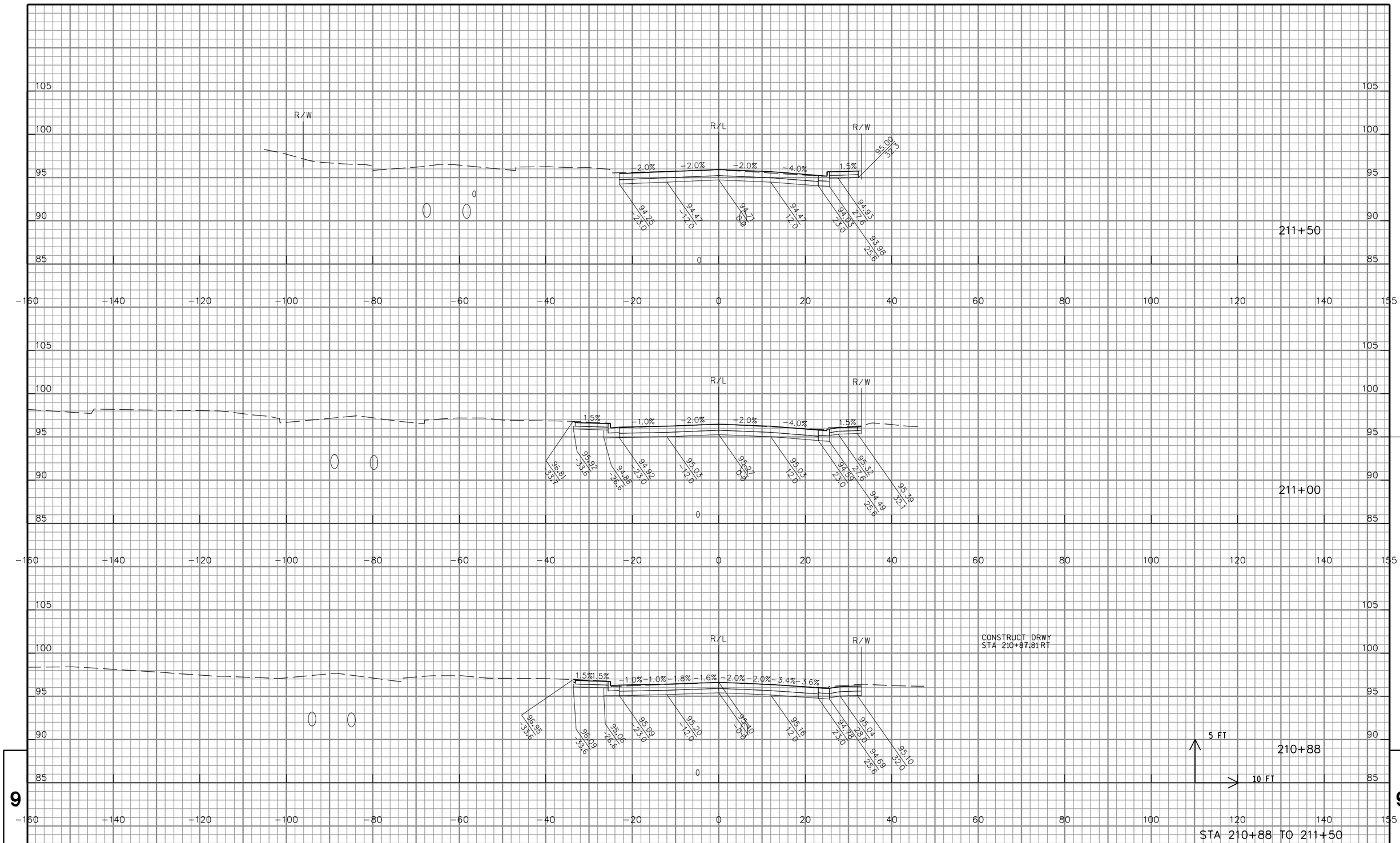


STA 209+50 TO 210+50

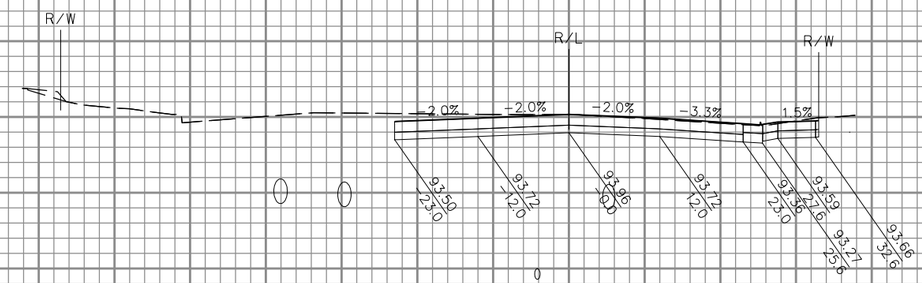
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 427 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



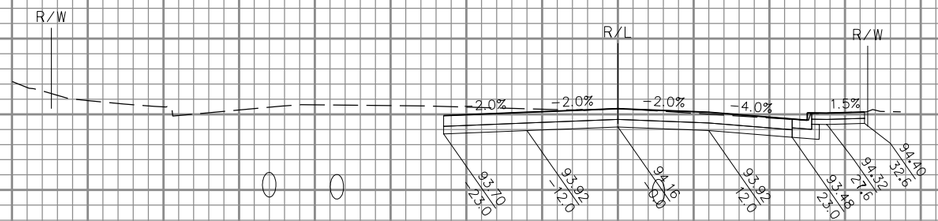
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 428 E

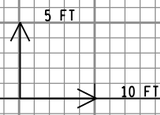


CONSTRUCT DRWY
STA 212+18.10 RT

105
100
95
90
85
80

212+18





212+00

STA 212+00 TO 212+18

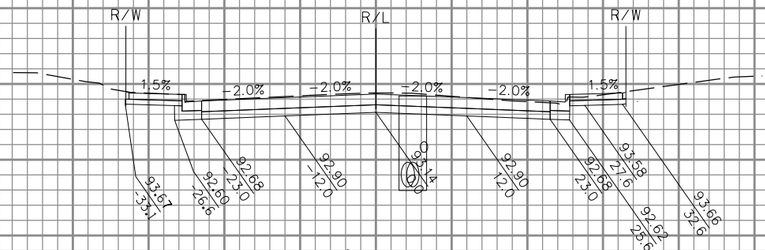
-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 155

9

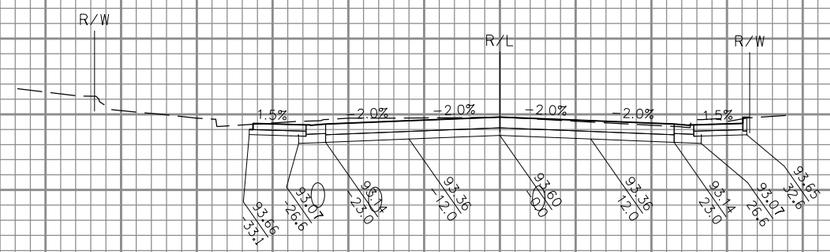
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 429 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



213+00



212+50

5 FT

10 FT

STA 212+50 TO 213+00

9

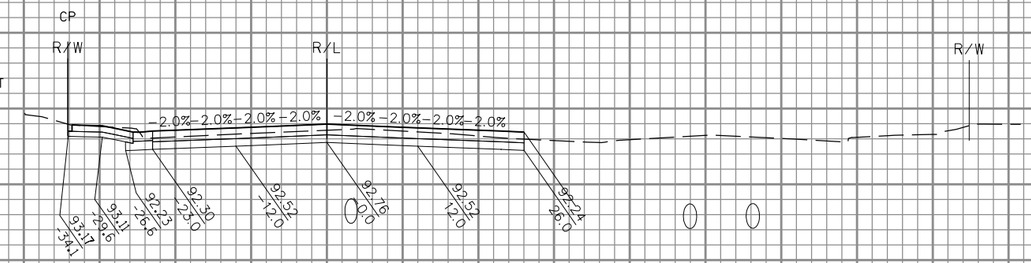
9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 430 E

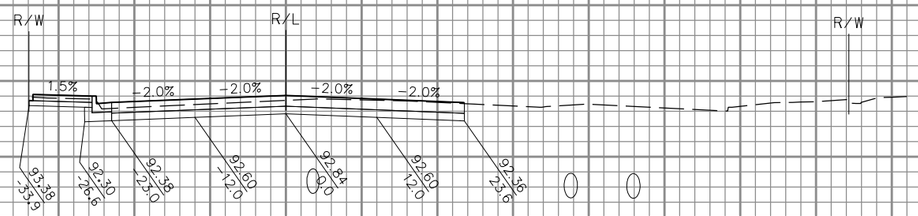
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

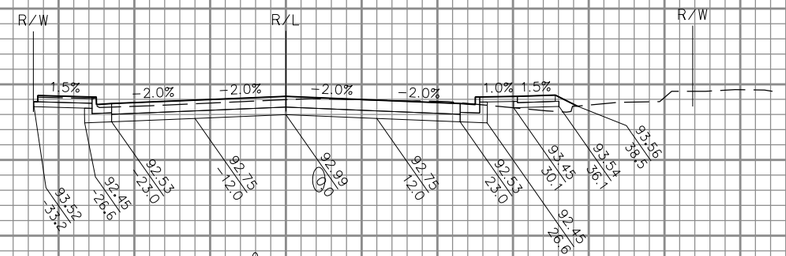
CONSTRUCT DRWY
STA 214+25.42 LT

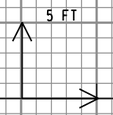


214+25



214+00





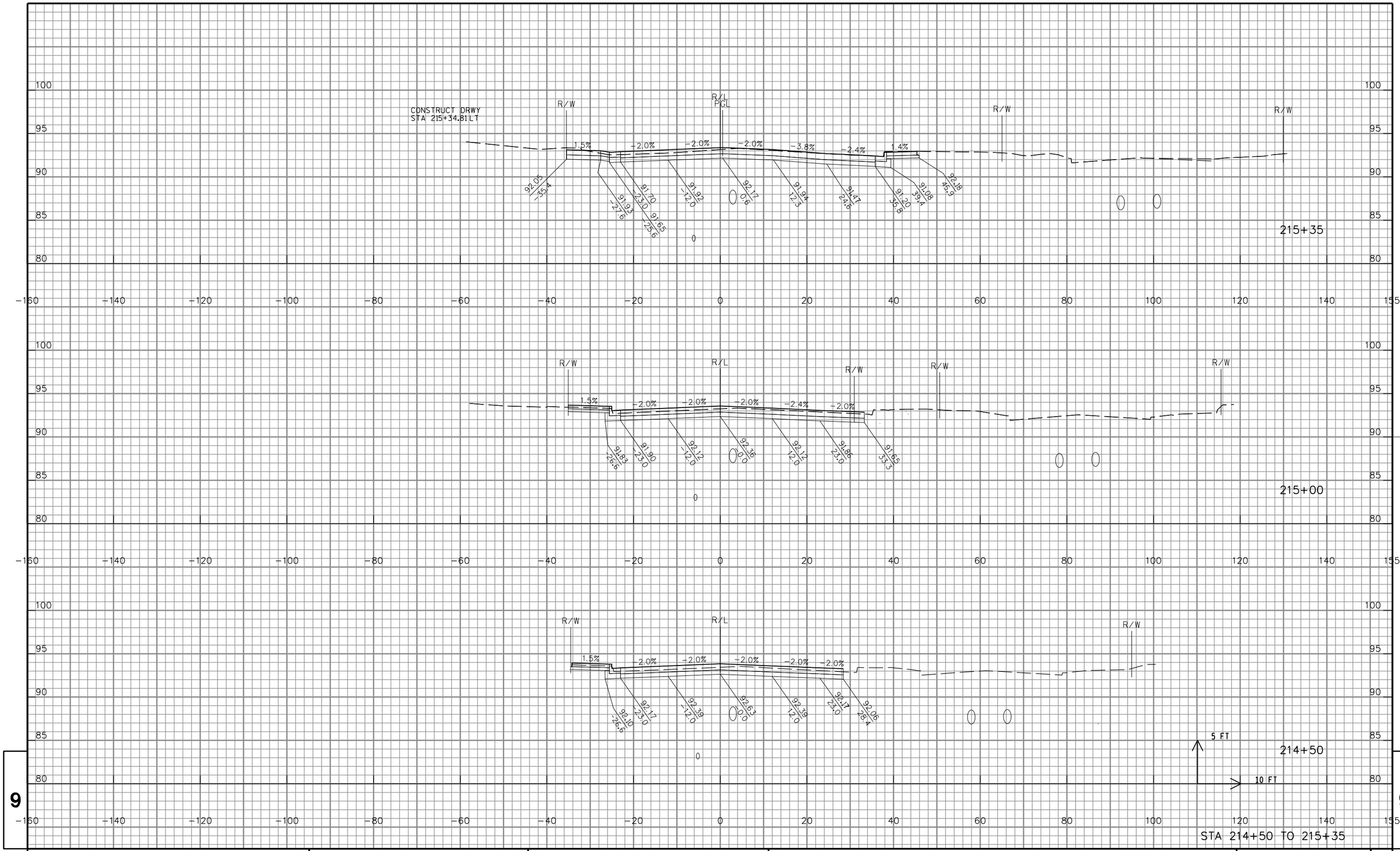
213+50

STA 213+50 TO 214+25

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 431 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

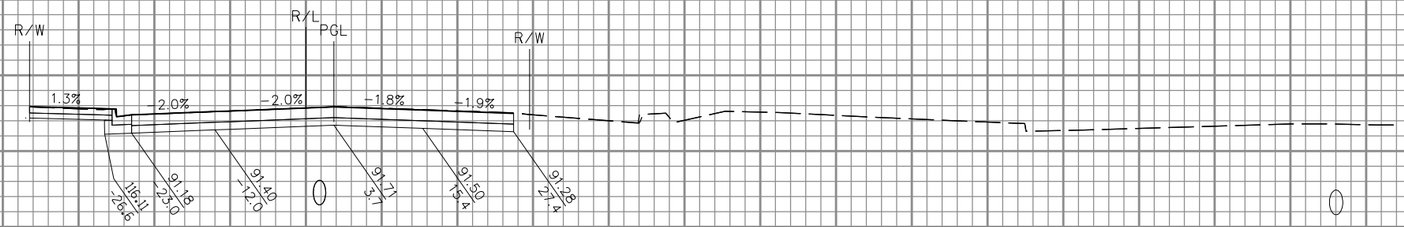


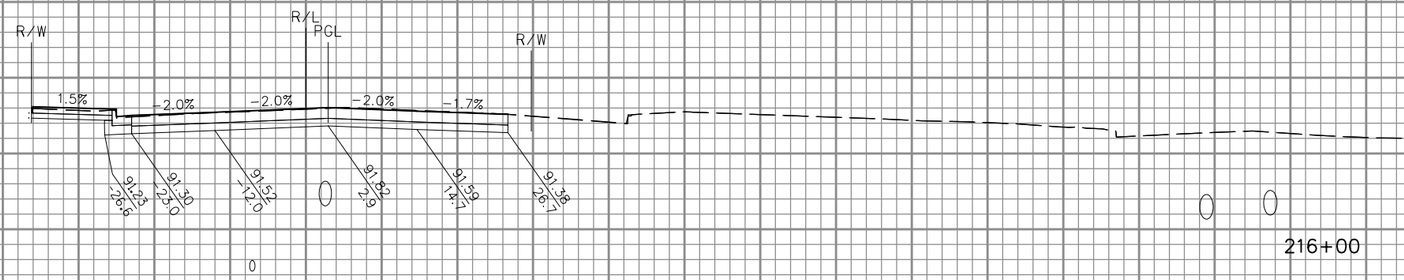
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 432 E

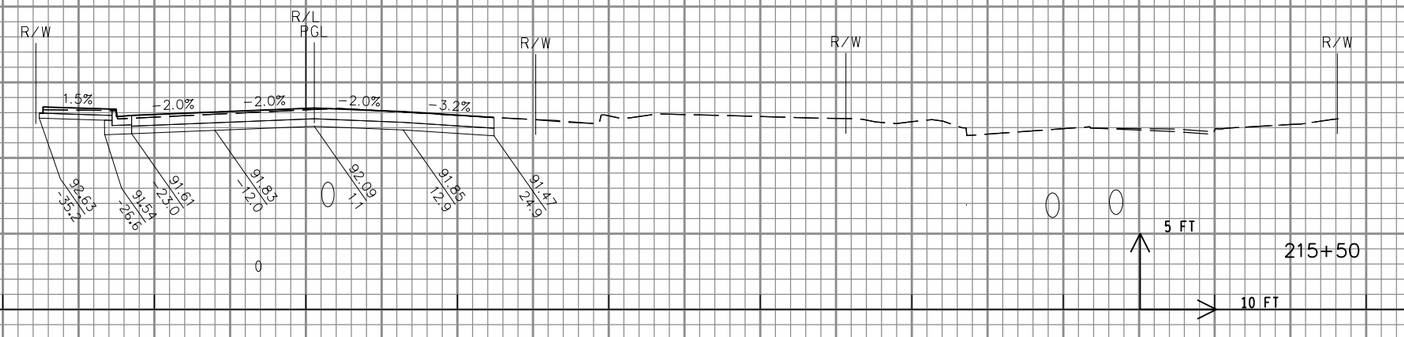
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090202_XS_Teutonia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

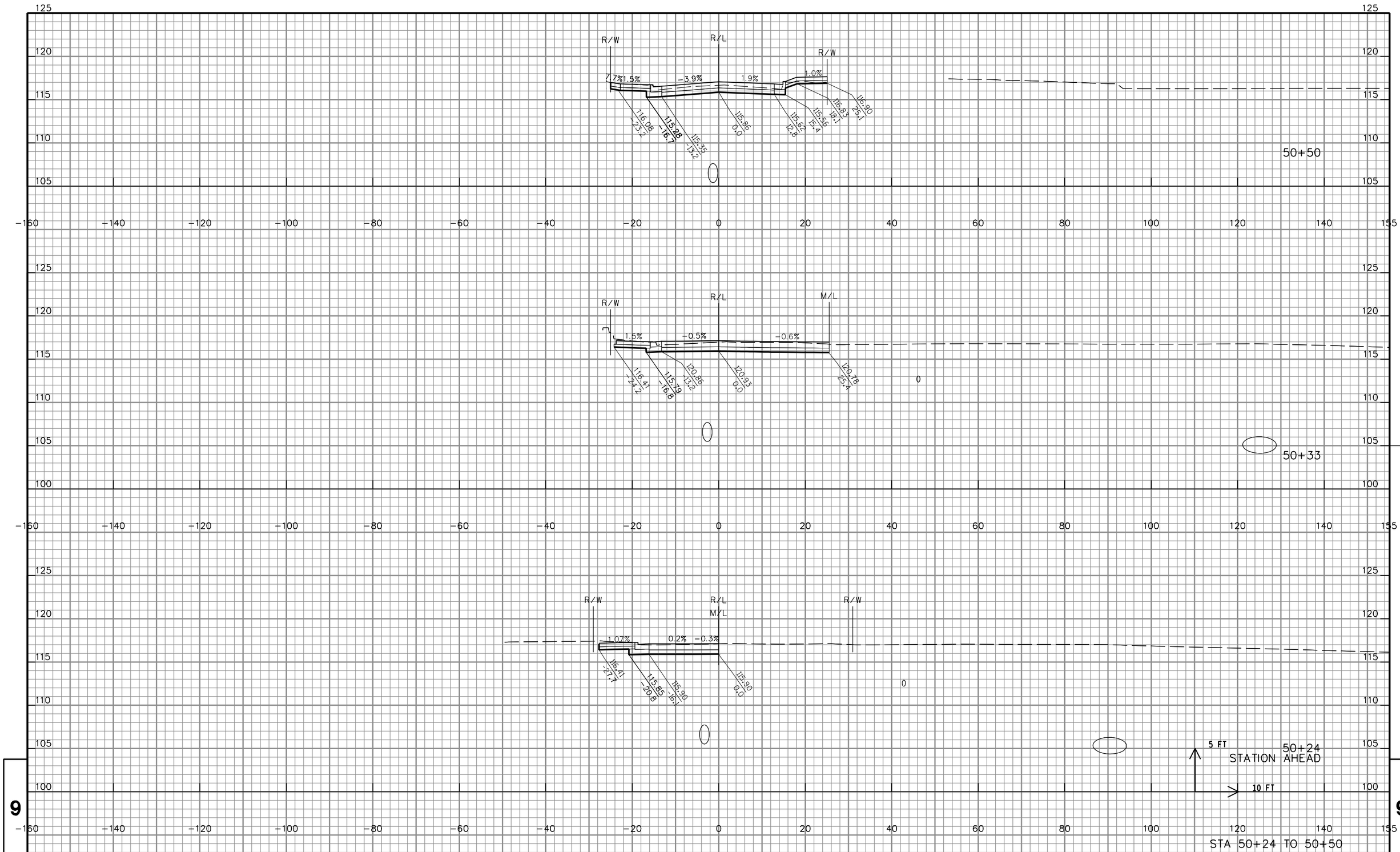
END PROJECT STA 216+21.33







PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. TEUTONIA AVE	SHEET 433 E



9

9

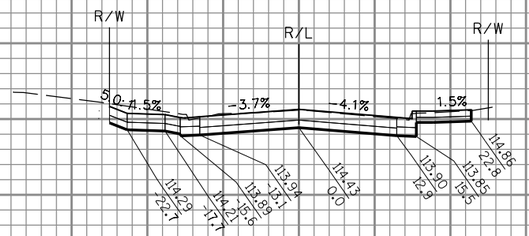
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. CHAMBERS ST	SHEET 434 E

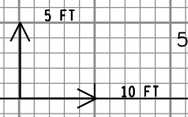
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090211_XS_Chambers.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

END CONSTRUCTION STA 51+11.00

51+11
STATION BACK





51+00

STA 51+00 TO 51+11

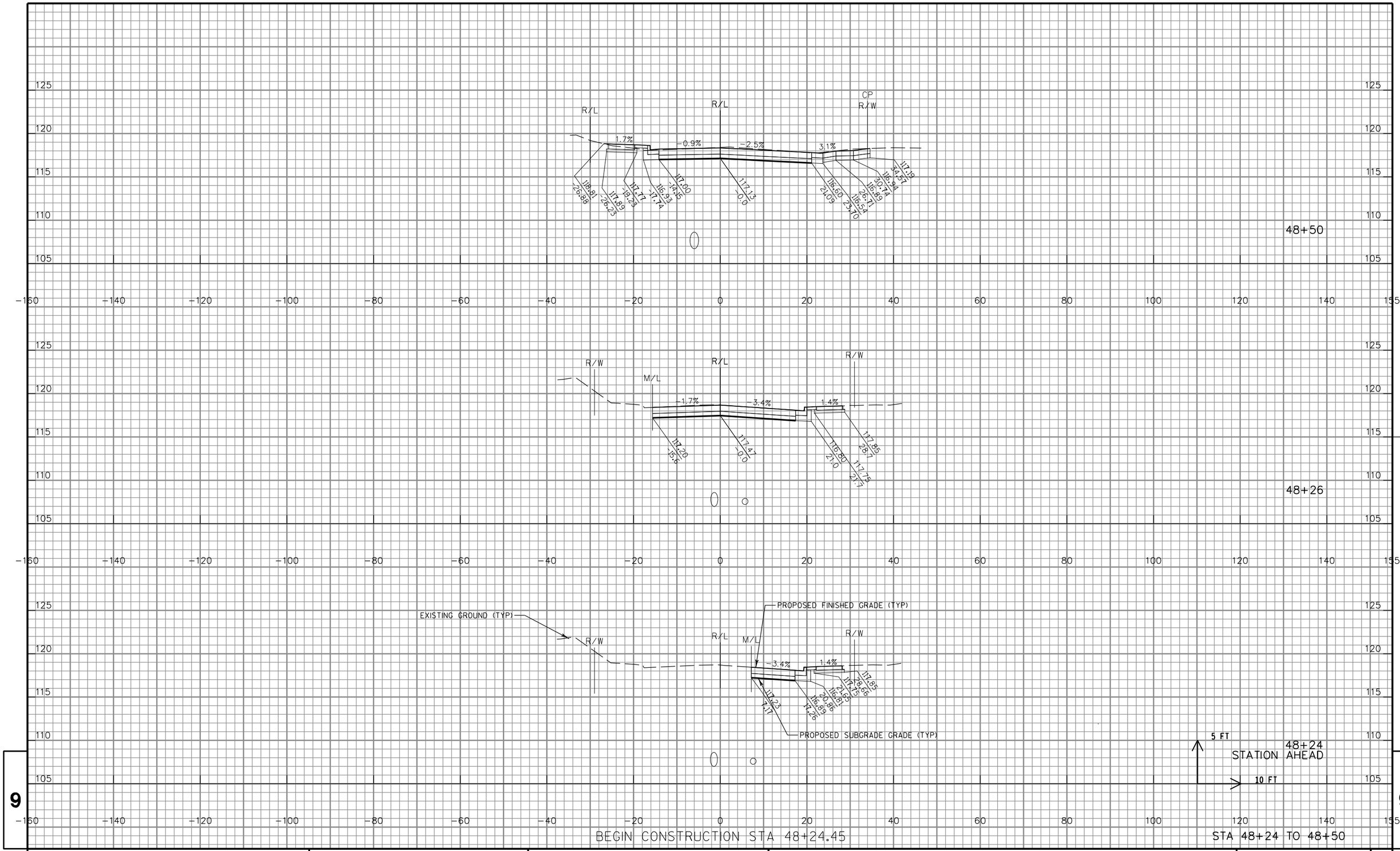
9

9

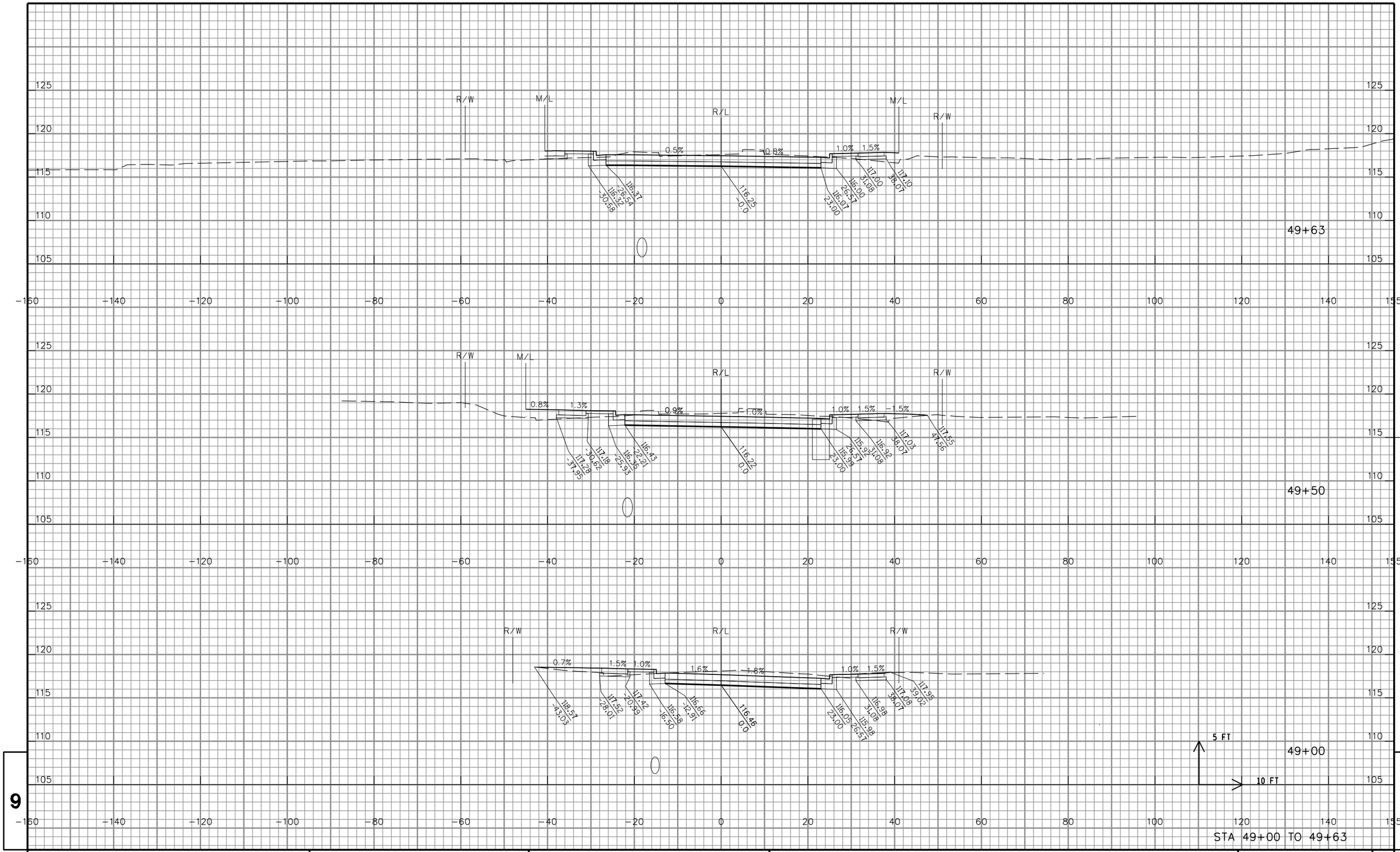
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. CHAMBERS ST	SHEET 435 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090211_XS_Chambers.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



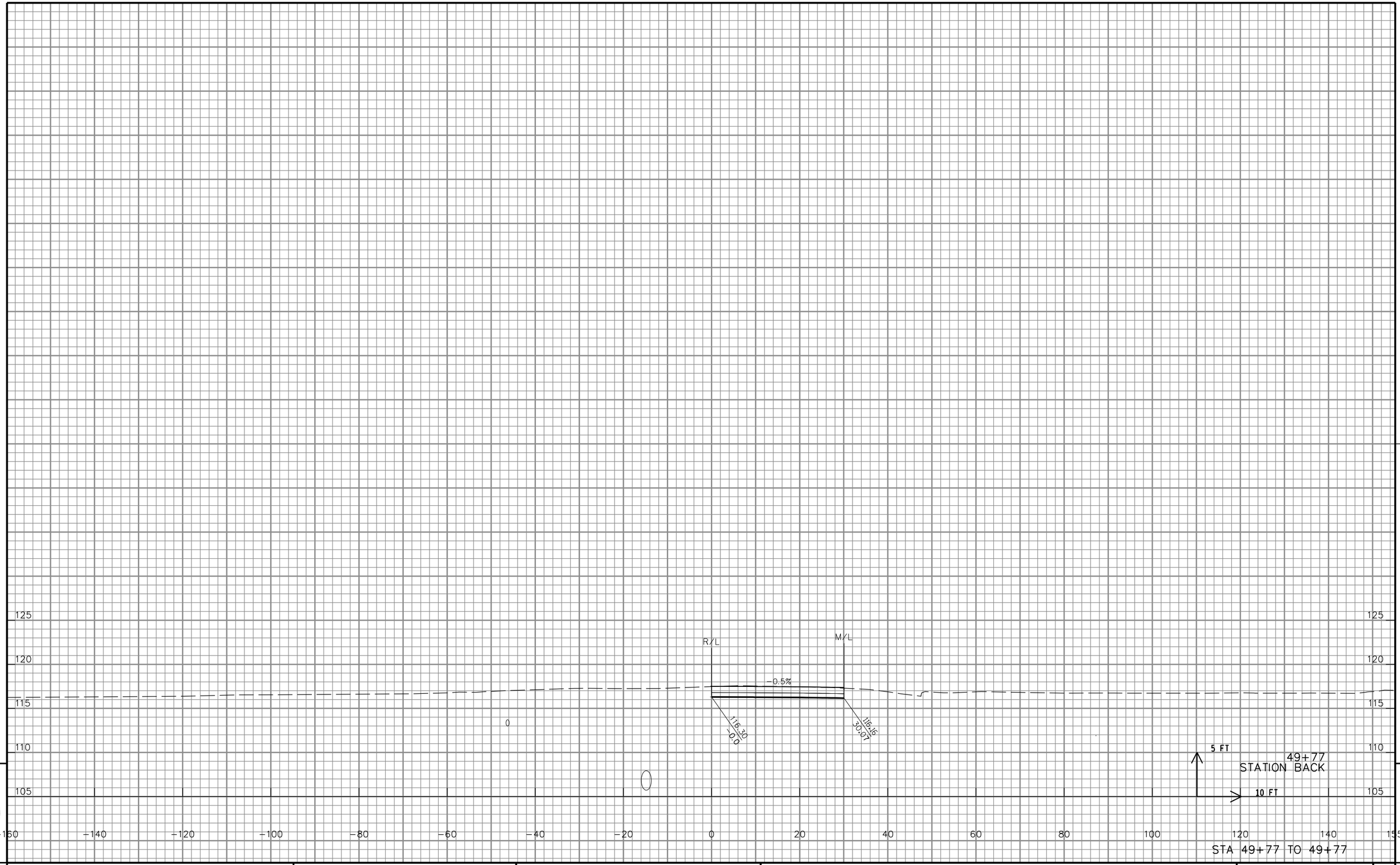
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. CHAMBERS ST	SHEET 436 E



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. CHAMBERS ST	SHEET 437 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090211_XS_Chambers.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



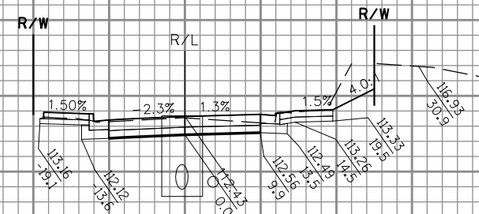
9

9

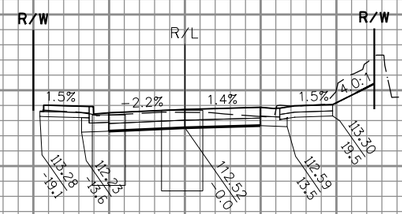
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. CHAMBERS ST	SHEET 438 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090211_XS_Chambers.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

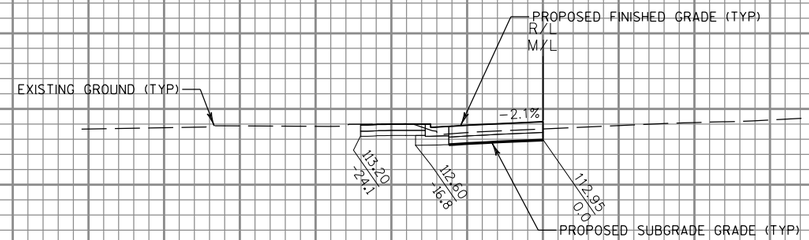
WISDOT/CADDS SHEET 21



50+50



50+45



50+24
STATION AHEAD

BEGIN CONSTRUCTION STA 50+24.33

STA 50+24 TO 50+50

9

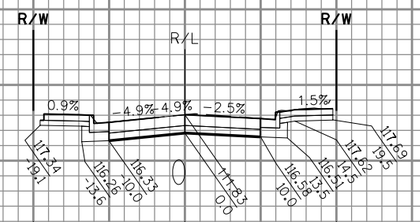
9

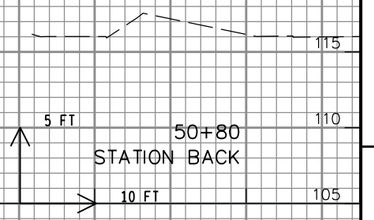
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. COLUMBIA ST	SHEET 439 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090212_XS_Columbia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

END CONSTRUCTION STA 50+79.80



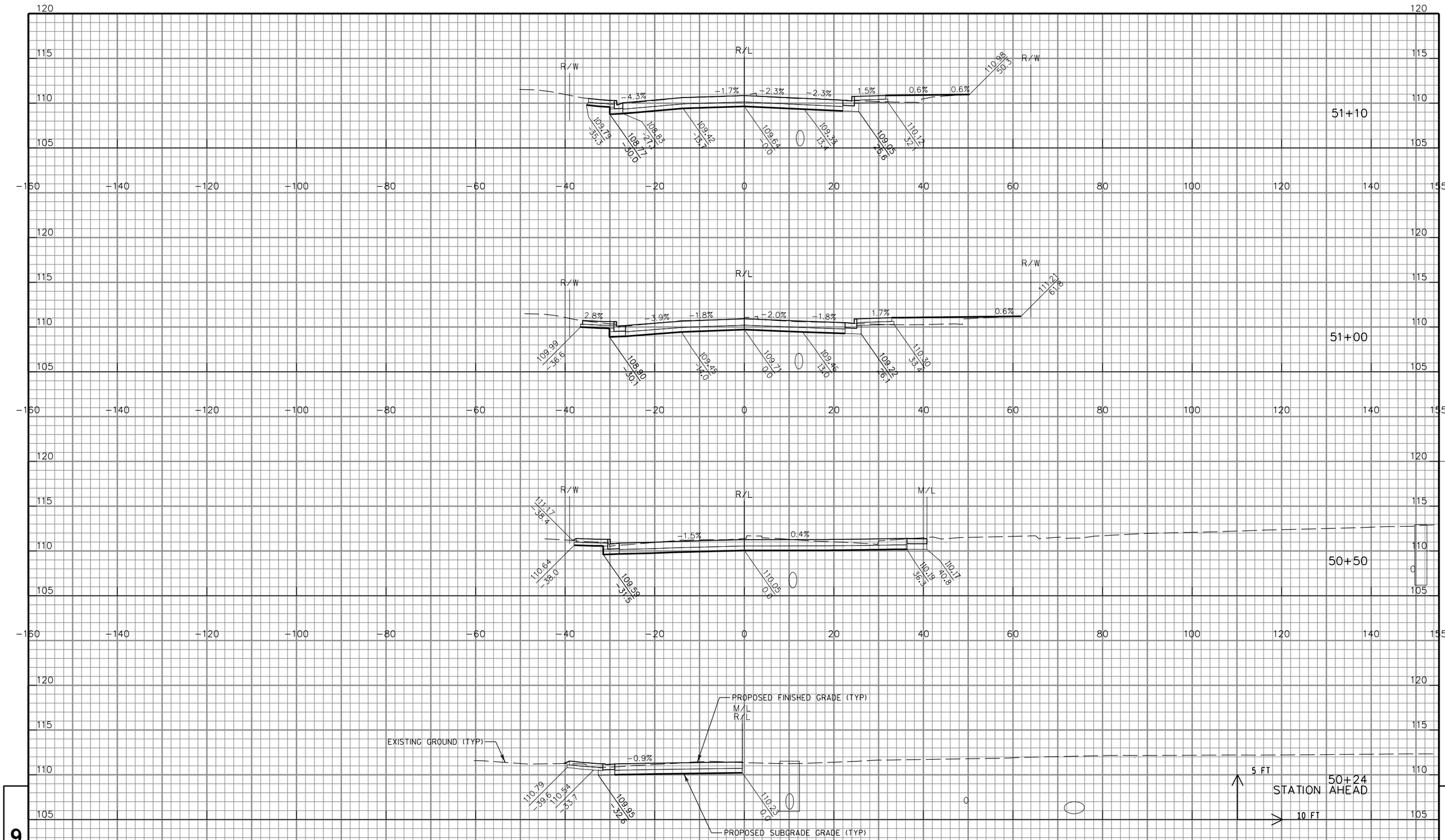


STA 50+80 TO 50+80

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. COLUMBIA ST	SHEET 440 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090212_XS_Columbia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

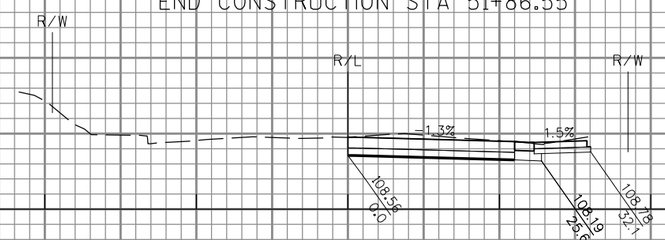


PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. BURLEIGH ST	SHEET 441 E

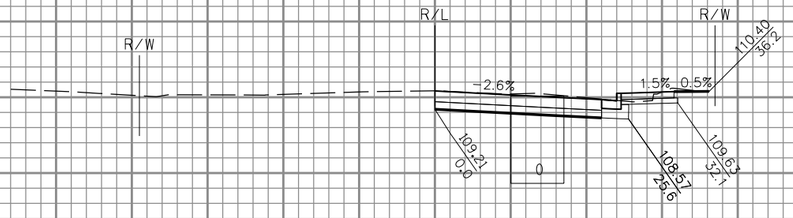
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090213_XS_Burleigh.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

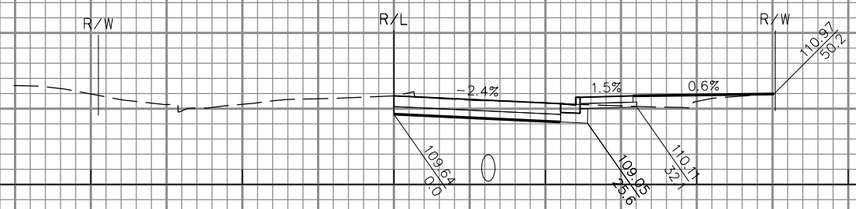
END CONSTRUCTION STA 51+86.55



51+87
STATION BACK



51+50



5 FT
10 FT
51+10

STA 51+10 TO 51+87

9

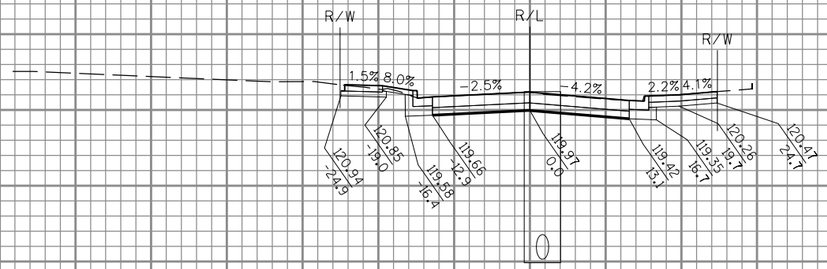
9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. BURLEIGH ST	SHEET 442 E

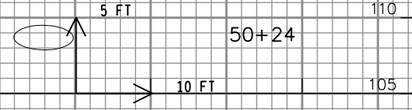
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090213_XS_Burleigh.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

END CONSTRUCTION STA 50+48.52



50+48



50+24

BEGIN CONSTRUCTION STA 50+23.52

STA 50+24 TO 50+48

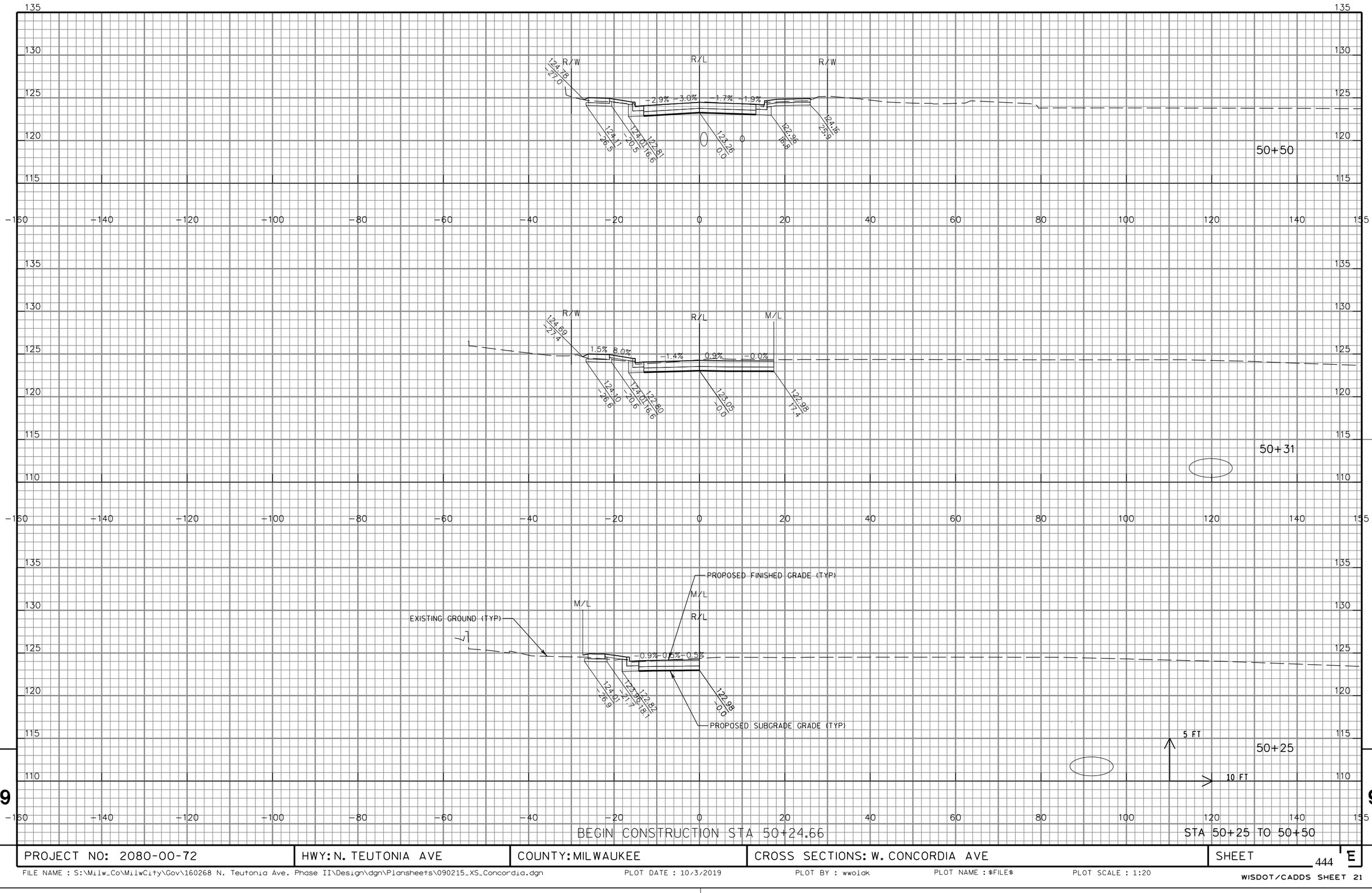
9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RING ST	SHEET 443 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090214_XS_Ring.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

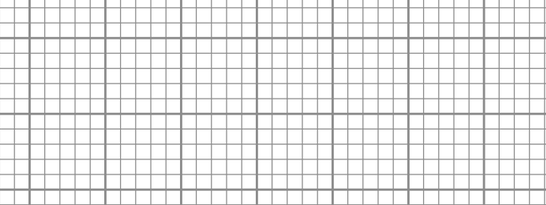


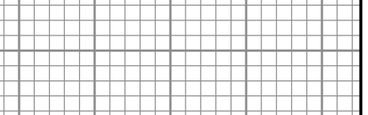
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. CONCORDIA AVE	SHEET 444 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090215_XS_Concordia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

END CONSTRUCTION STA 50+57.25



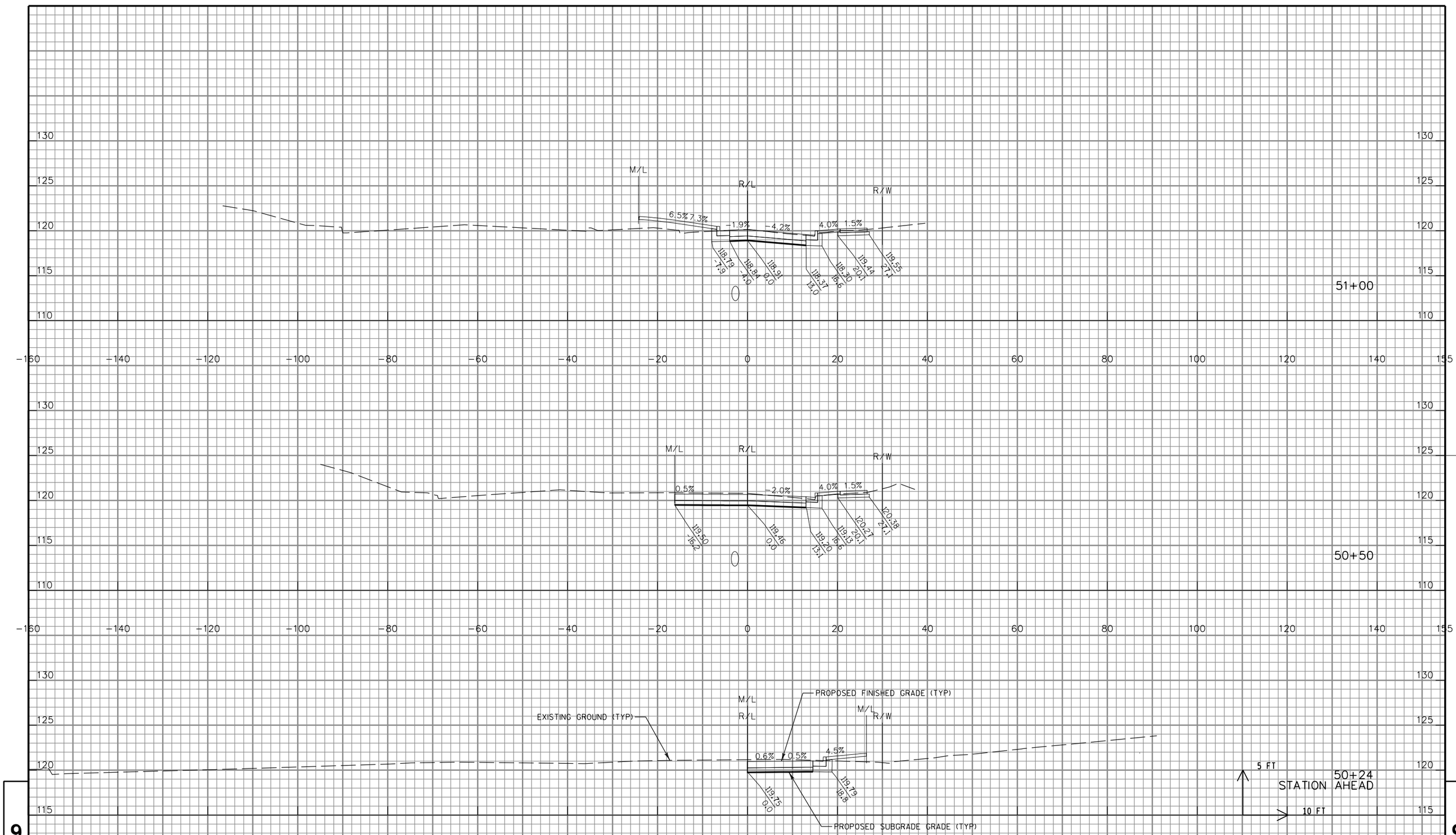


STA 50+57 TO 50+57

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. CONCORDIA AVE	SHEET 445 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090215_XS_Concordia.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



BEGIN CONSTRUCTION STA 50+24.21

STA 50+24 TO 51+00

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 18TH ST	SHEET 446 E

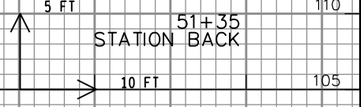
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090216_XS_18TH.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9

9

END CONSTRUCTION STA 51+35.27

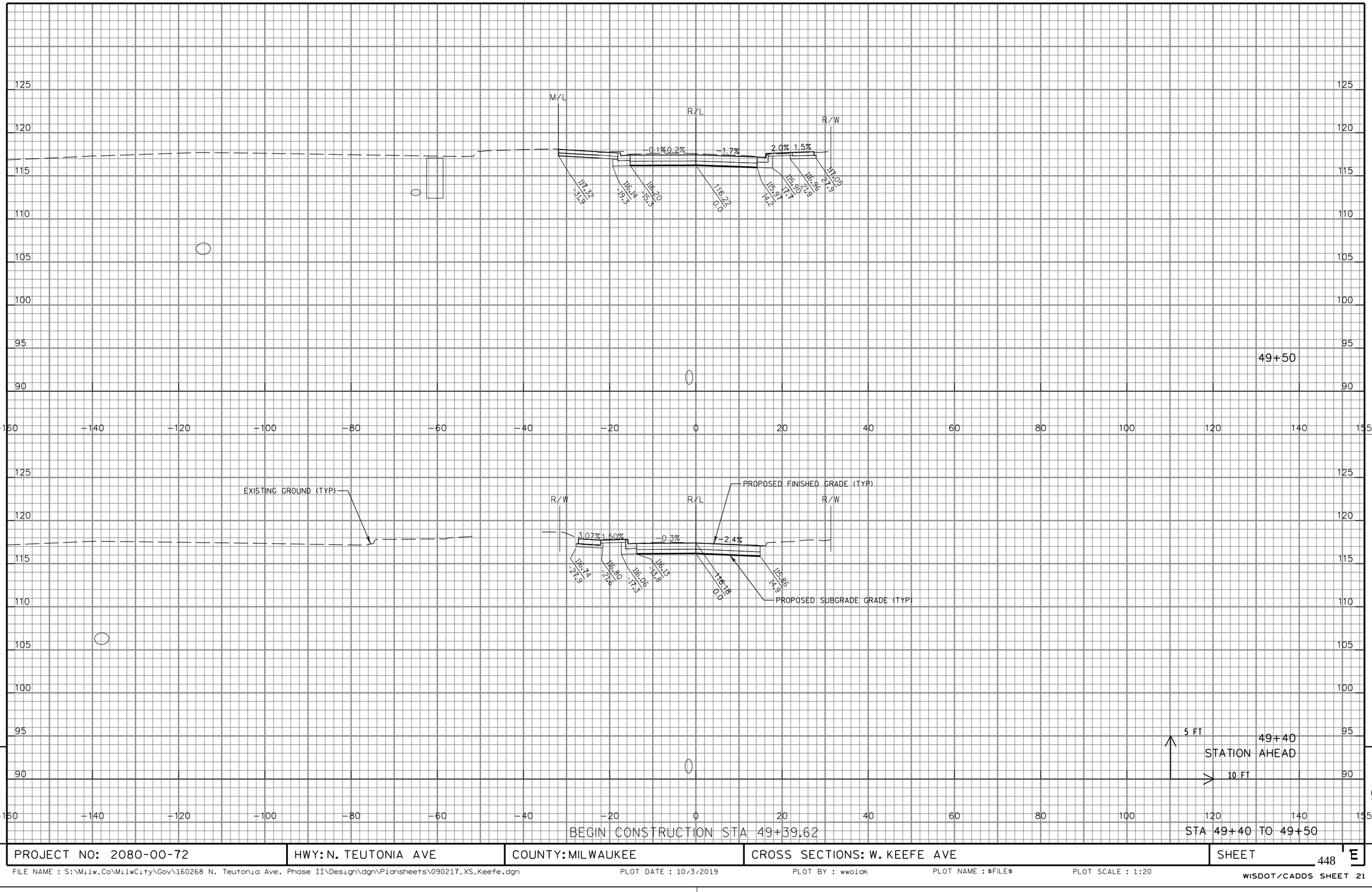


STA 51+35 TO 51+35

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 18TH ST	SHEET 447 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090216_XS_18TH.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

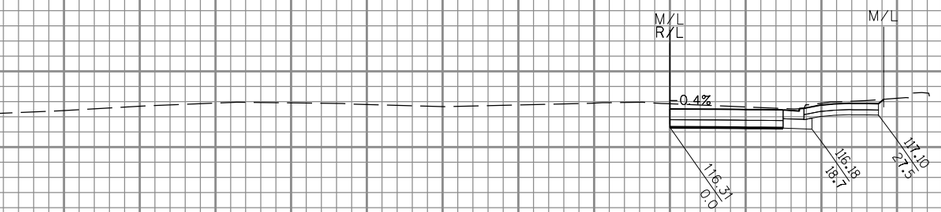


BEGIN CONSTRUCTION STA 49+39.62

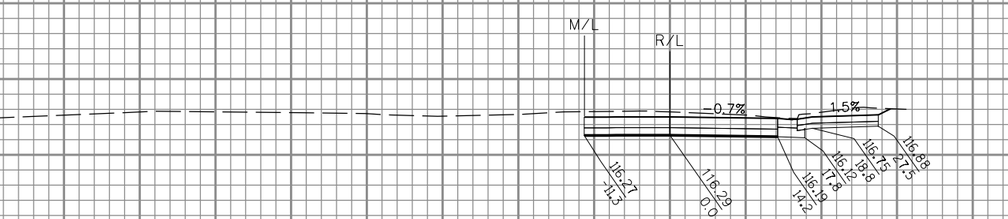
STA 49+40 TO 49+50

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. KEEFE AVE	SHEET 448 E

END CONSTRUCTION STA 49+74.91



49+75
STATION BACK



5 FT
10 FT
49+70

STA 49+70 TO 49+75

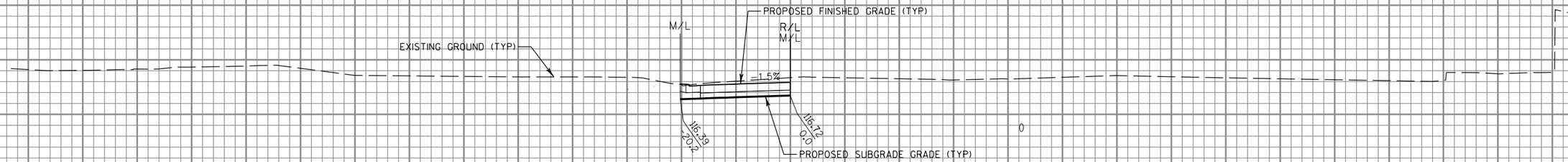
9

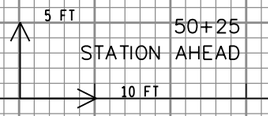
9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. KEEFE AVE	SHEET 449 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090217_XS_Keefe.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





BEGIN CONSTRUCTION STA 50+25.10

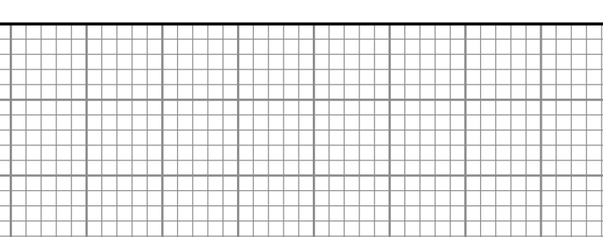
STA 50+25 TO 50+50

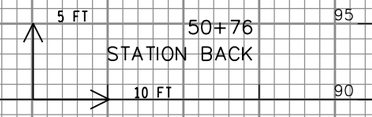
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. KEEFE AVE	SHEET 450 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090217_XS_Keefe.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

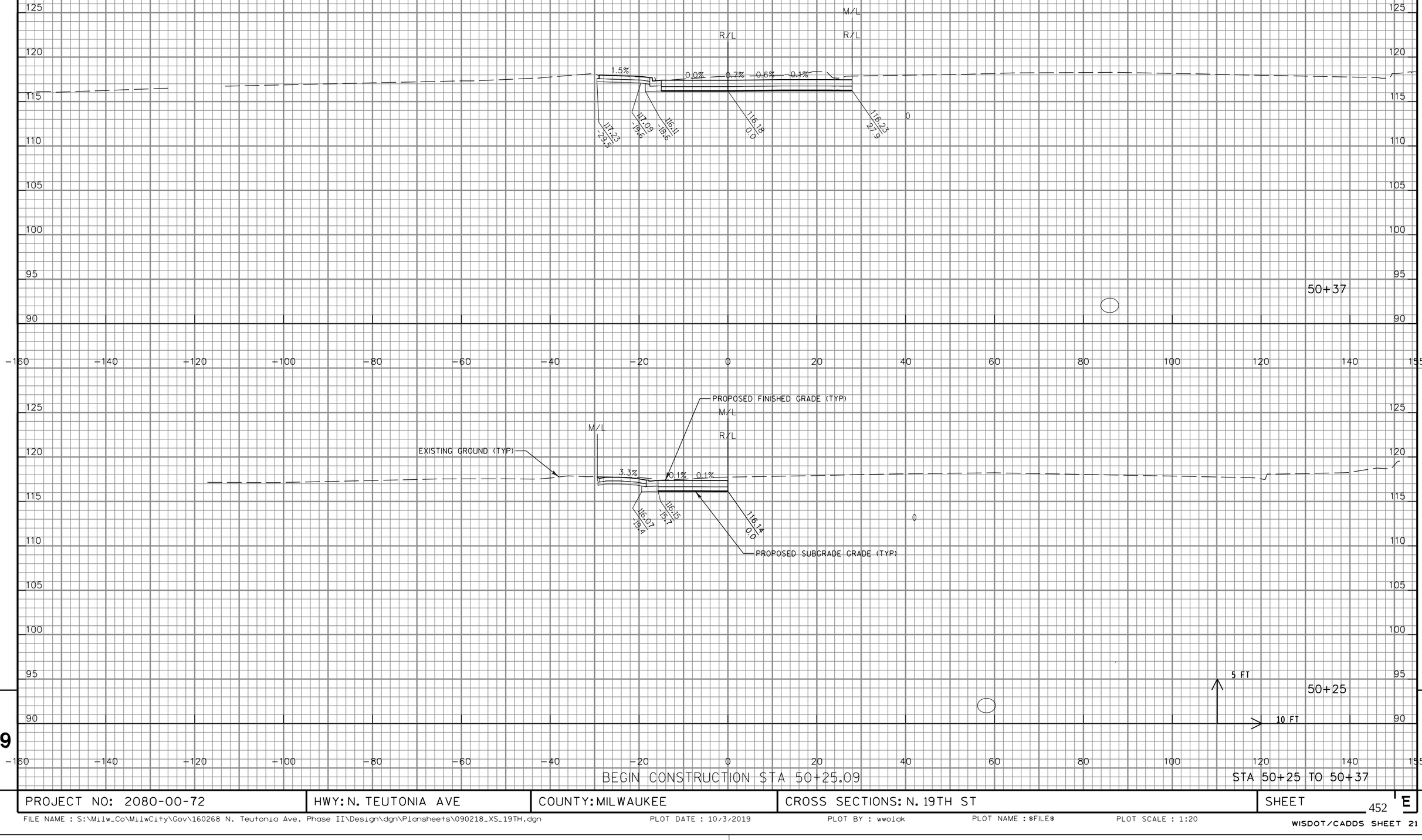
END CONSTRUCTION STA 50+75.93





STA 50+76 TO 50+76

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. KEEFE AVE	SHEET 451 E

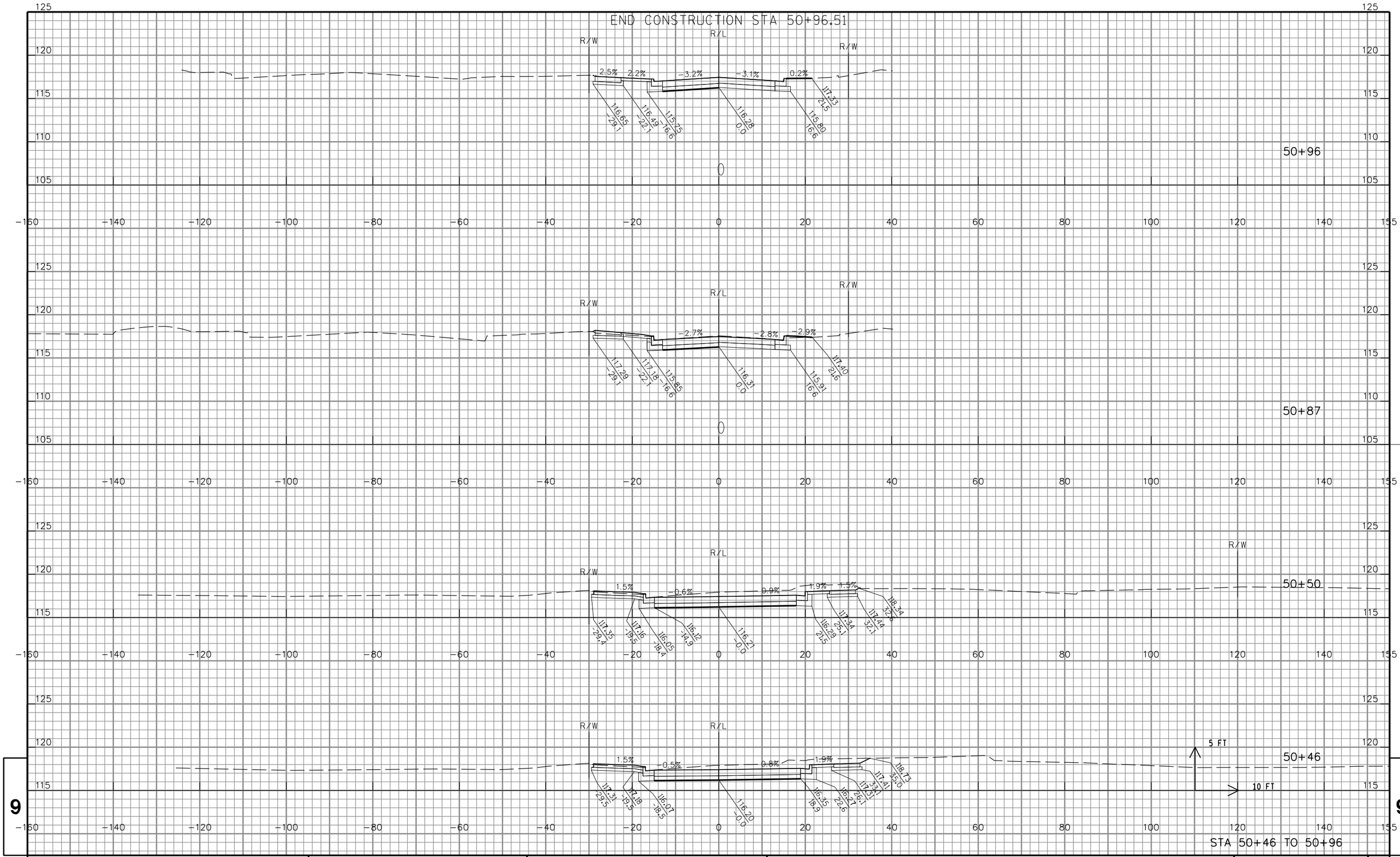


PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 19TH ST	SHEET 452 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090218_XS_19TH.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

END CONSTRUCTION STA 50+96.51



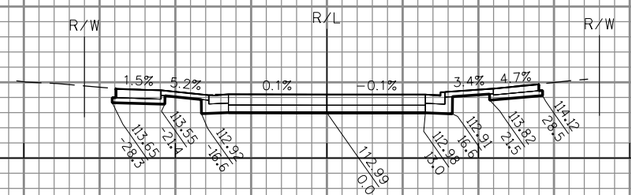
STA 50+46 TO 50+96

9

9

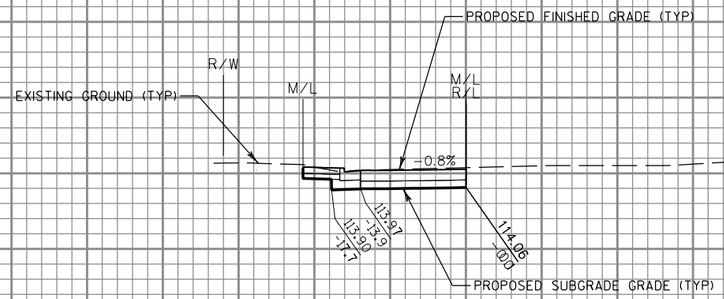
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 19TH ST	SHEET 453 E

END CONSTRUCTION STA 50+78.65



50+79
STATION BACK

50+50



5 FT
50+25
STATION AHEAD
10 FT

BEGIN CONSTRUCTION STA 50+25.09

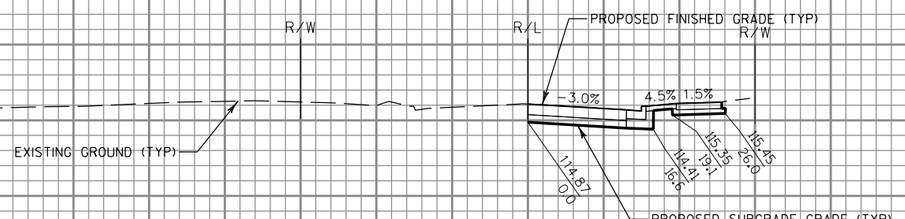
STA 50+25 TO 50+79

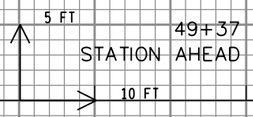
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. FINN PL	SHEET 454 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090219_XS_Finn.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

49+50





BEGIN CONSTRUCTION STA 49+36.84

STA 49+37 TO 49+50

9

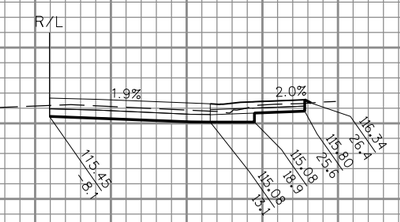
9

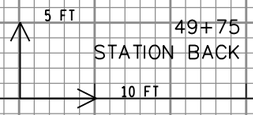
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. FINN PL	SHEET 455 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090219_XS_Finn.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

END CONSTRUCTION STA 49+74.90



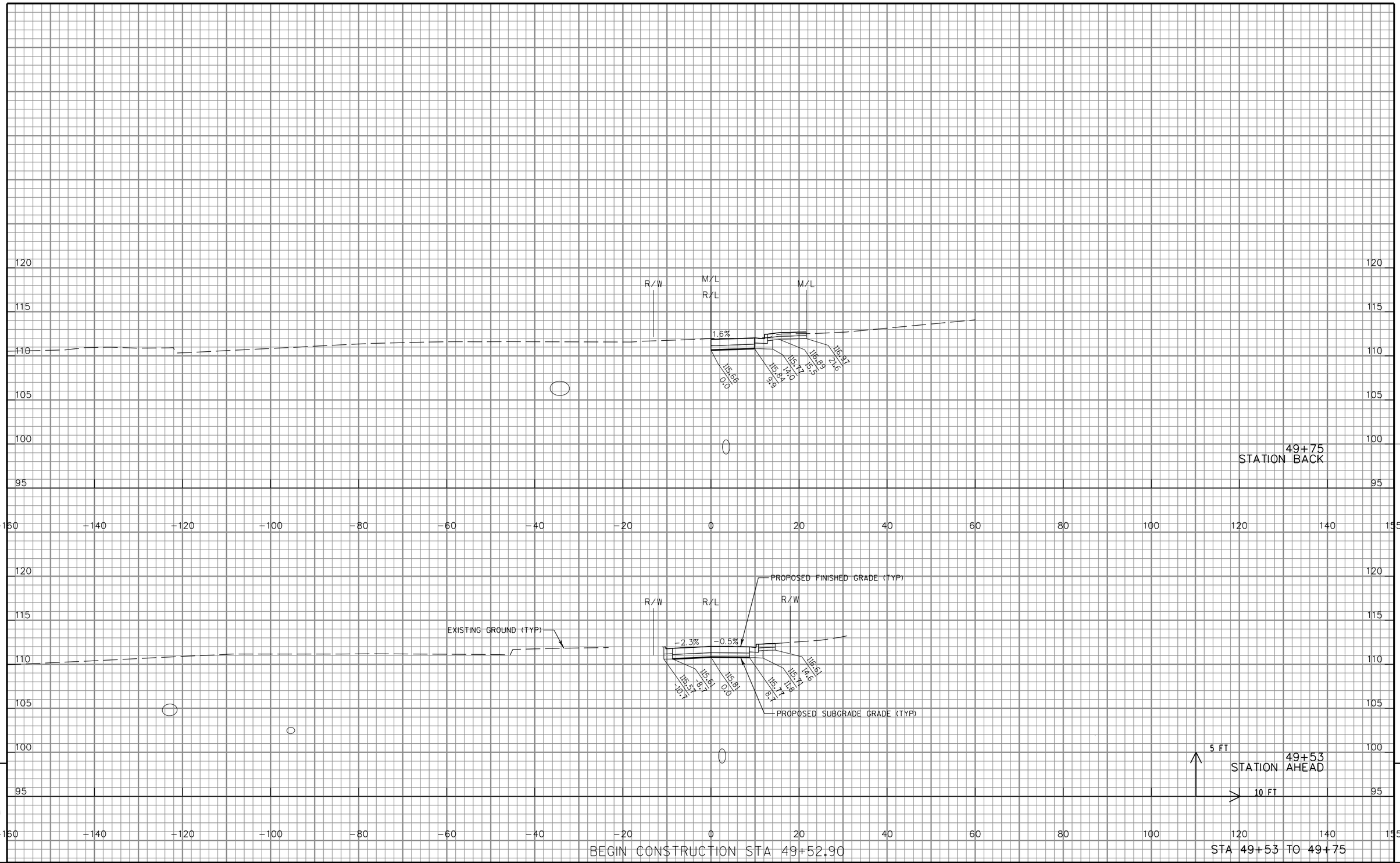


STA 49+75 TO 49+75

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. FINN PL	SHEET 456 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090219_XS_Finn.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

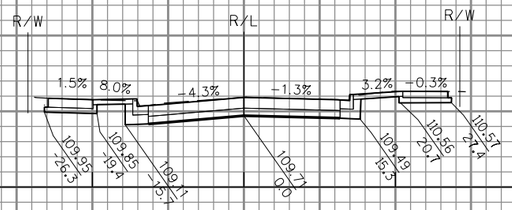


9

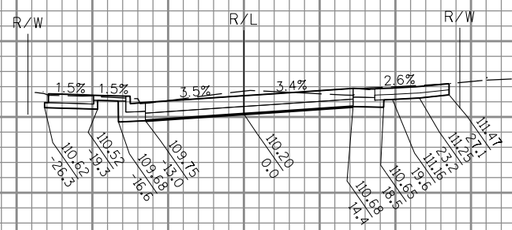
9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. NASH ST	SHEET 457 E

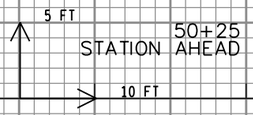
END CONSTRUCTION STA 50+80.21



50+80
STATION BACK



50+50



50+25
STATION AHEAD

STA 50+25 TO 50+80

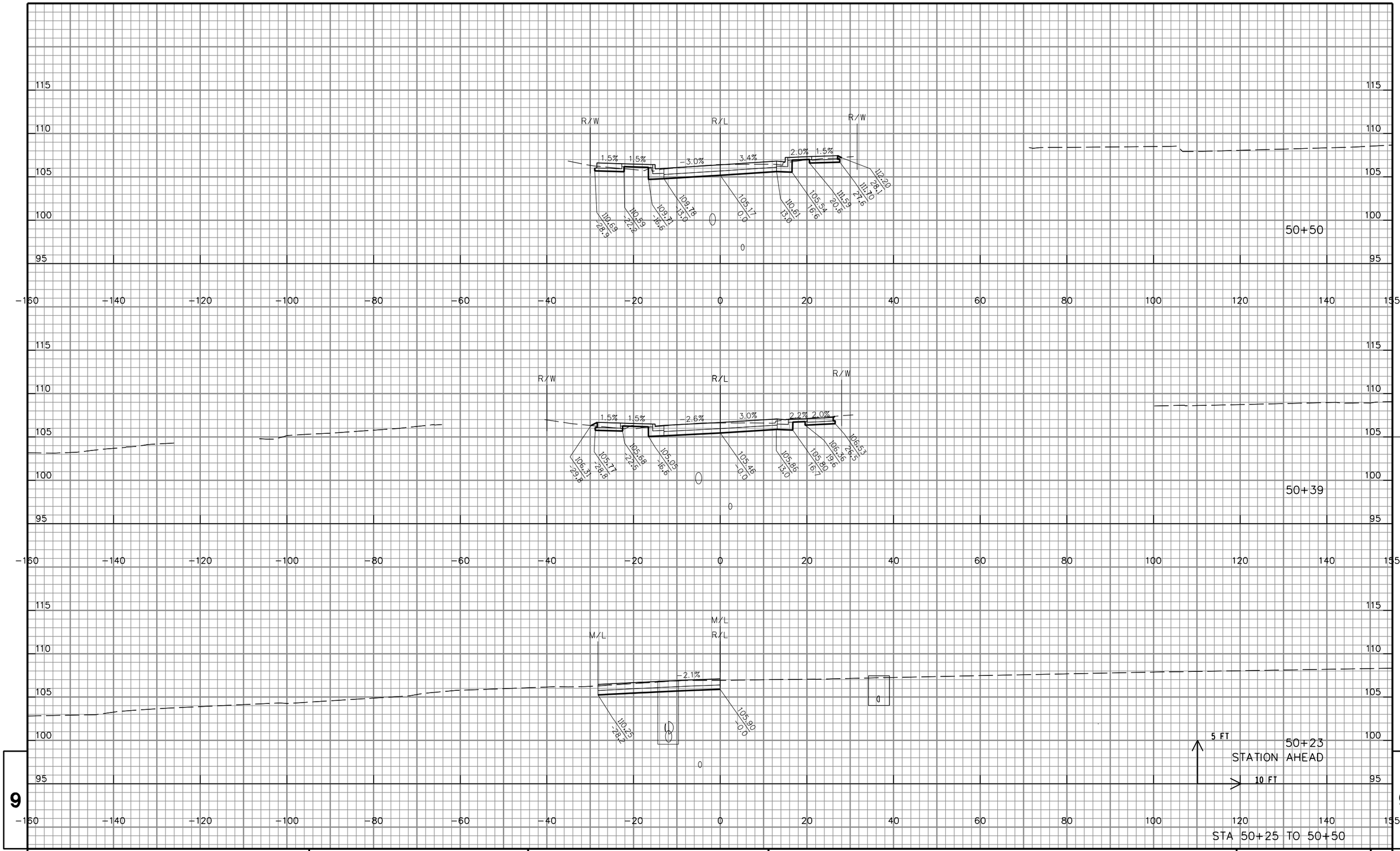
9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. NASH ST	SHEET 458 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090220_XS_Nash.dgn PLOT DATE : 10/3/2019 PLOT BY : nstyka PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



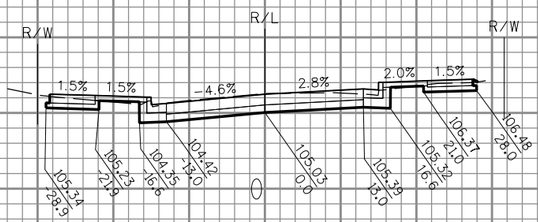
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. VIENNA AVE	SHEET 459 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090221_XS_Vienna.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

END CONSTRUCTION STA 50+94.71

50+95
STATION BACK



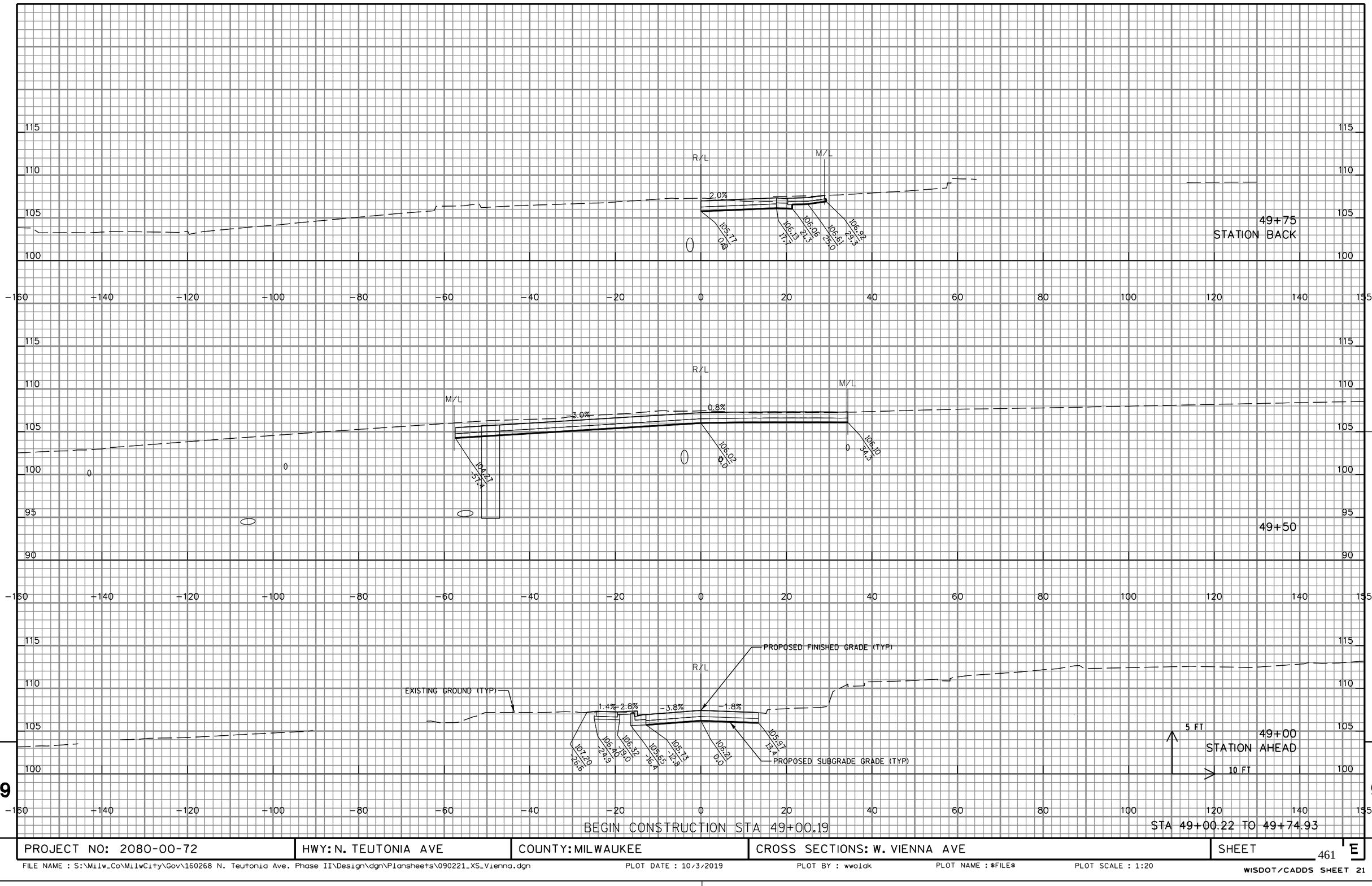
50+58

STA 50+58 TO 50+95

9

9

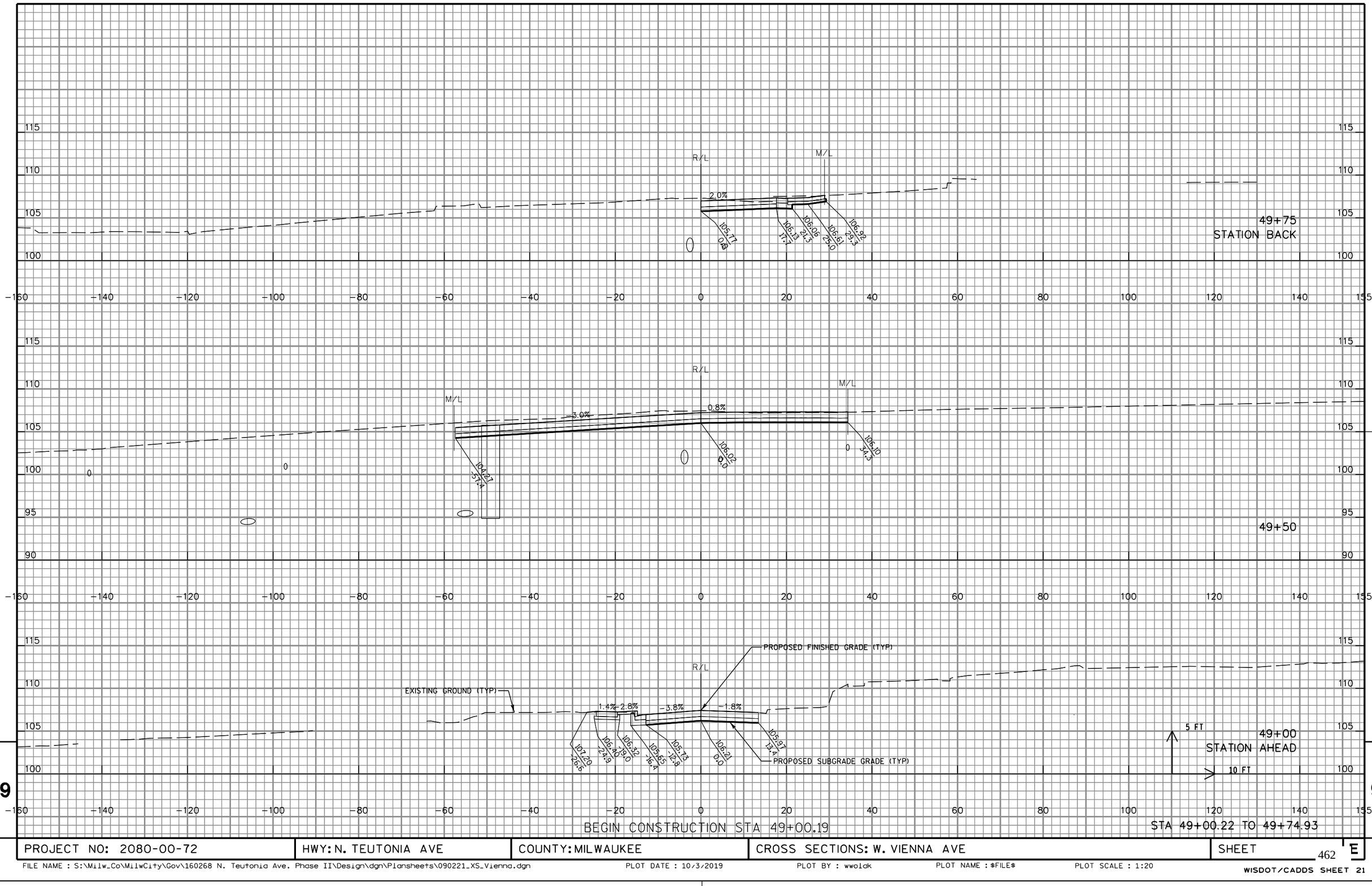
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. VIENNA AVE	SHEET 460 E



PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. VIENNA AVE	SHEET E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090221_XS_Vienna.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



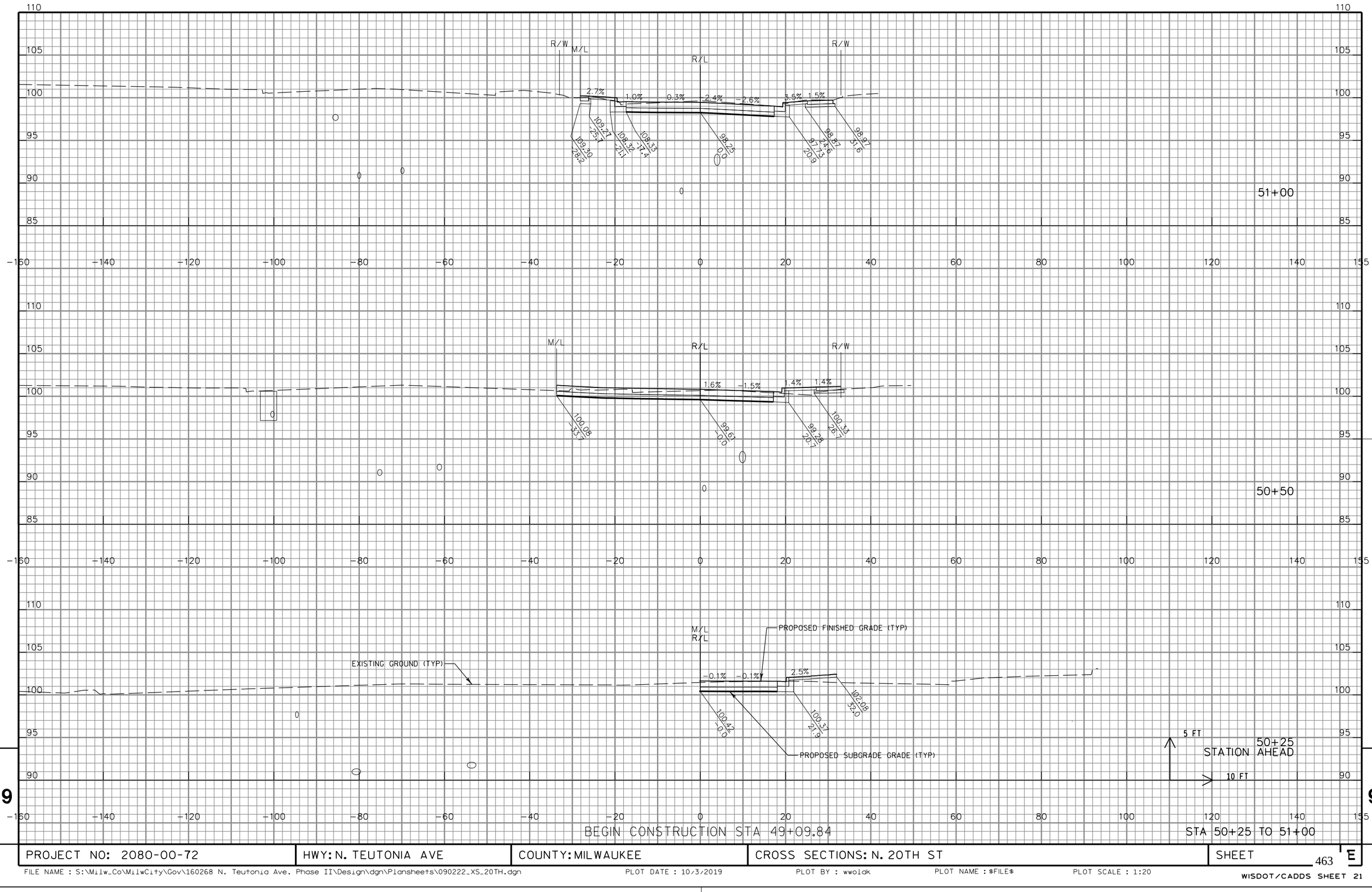
BEGIN CONSTRUCTION STA 49+00.19

STA 49+00.22 TO 49+74.93

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. VIENNA AVE	SHEET 462 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090221_XS_Vienna.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

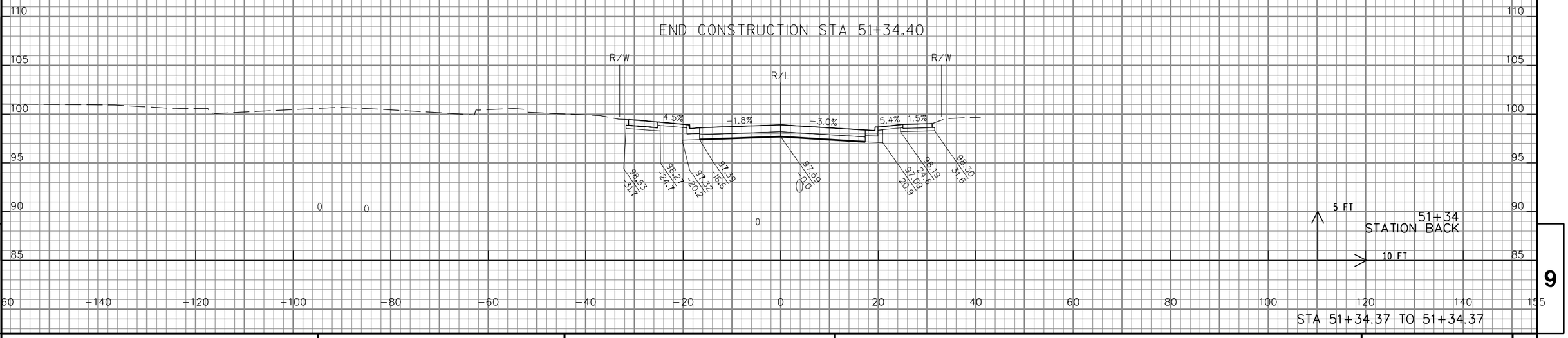


PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 20TH ST	SHEET 463 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090222_XS_20TH.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

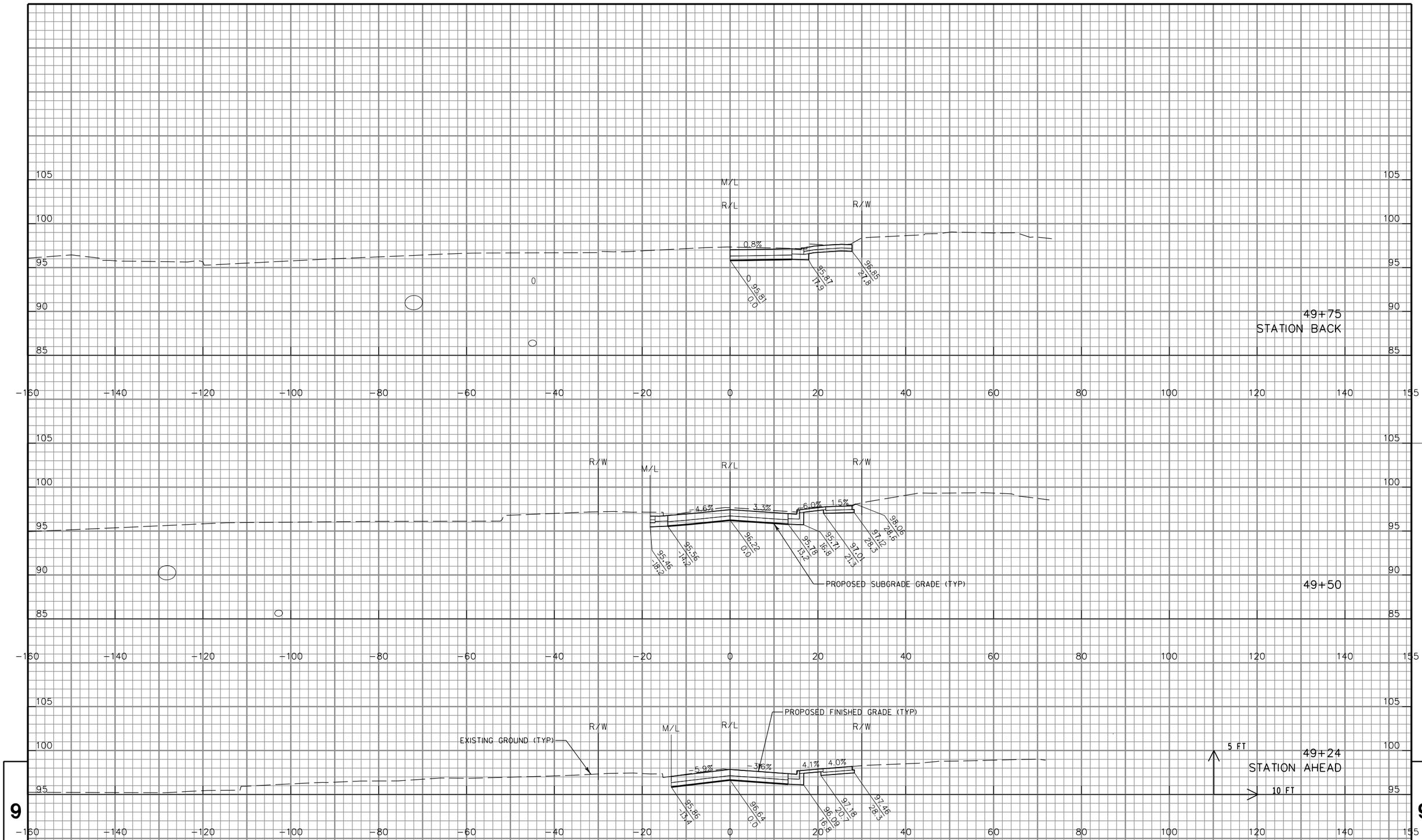
WISDOT/CADDS SHEET 21

END CONSTRUCTION STA 51+34.40



STA 51+34.37 TO 51+34.37

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 20TH ST	SHEET 464 E



9

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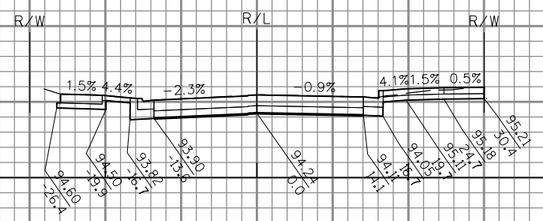
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. MEVINA ST	SHEET 465 E

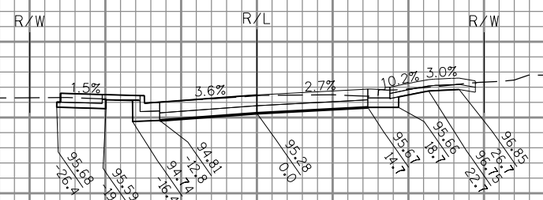
FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090223_XS_Melvina.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

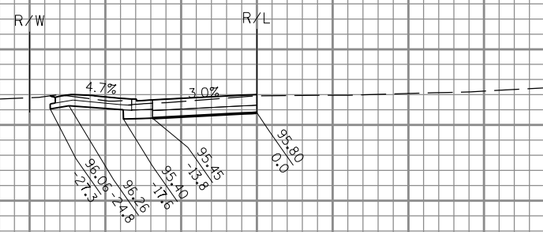
END CONSTRUCTION STA 50+99.30



50+99
STATION BACK



50+50



5 FT
10 FT

50+25
STATION AHEAD

STA 50+25 TO 50+99

9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: W. MEVINA ST	SHEET 466 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090223_XS_Melvina.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

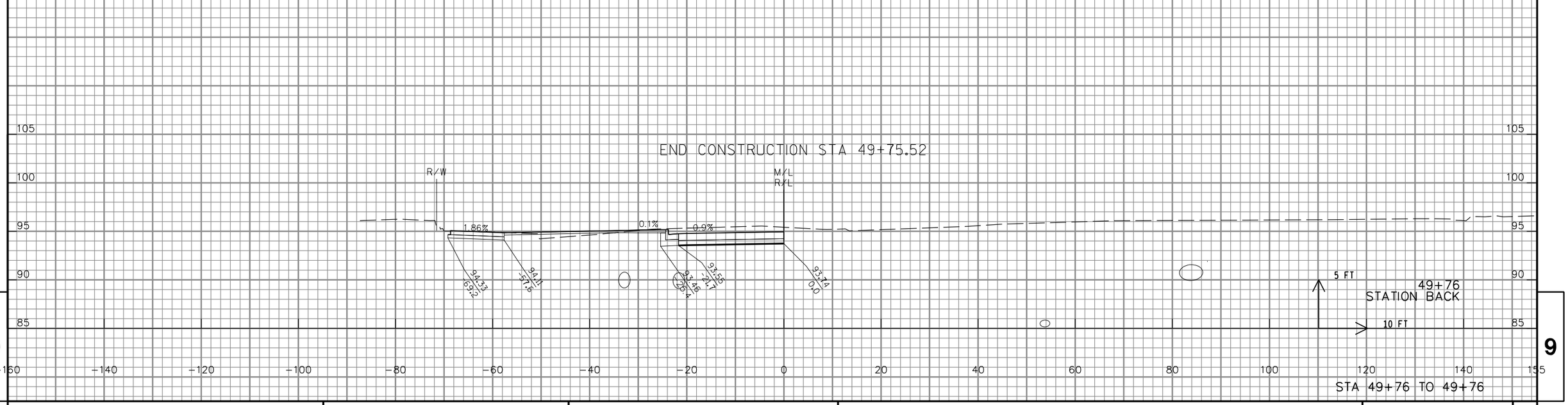
BEGIN CONSTRUCTION STA 48+80.52

STA 48+81 TO 49+50

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 21ST ST	SHEET 467 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090224_XS_21ST.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



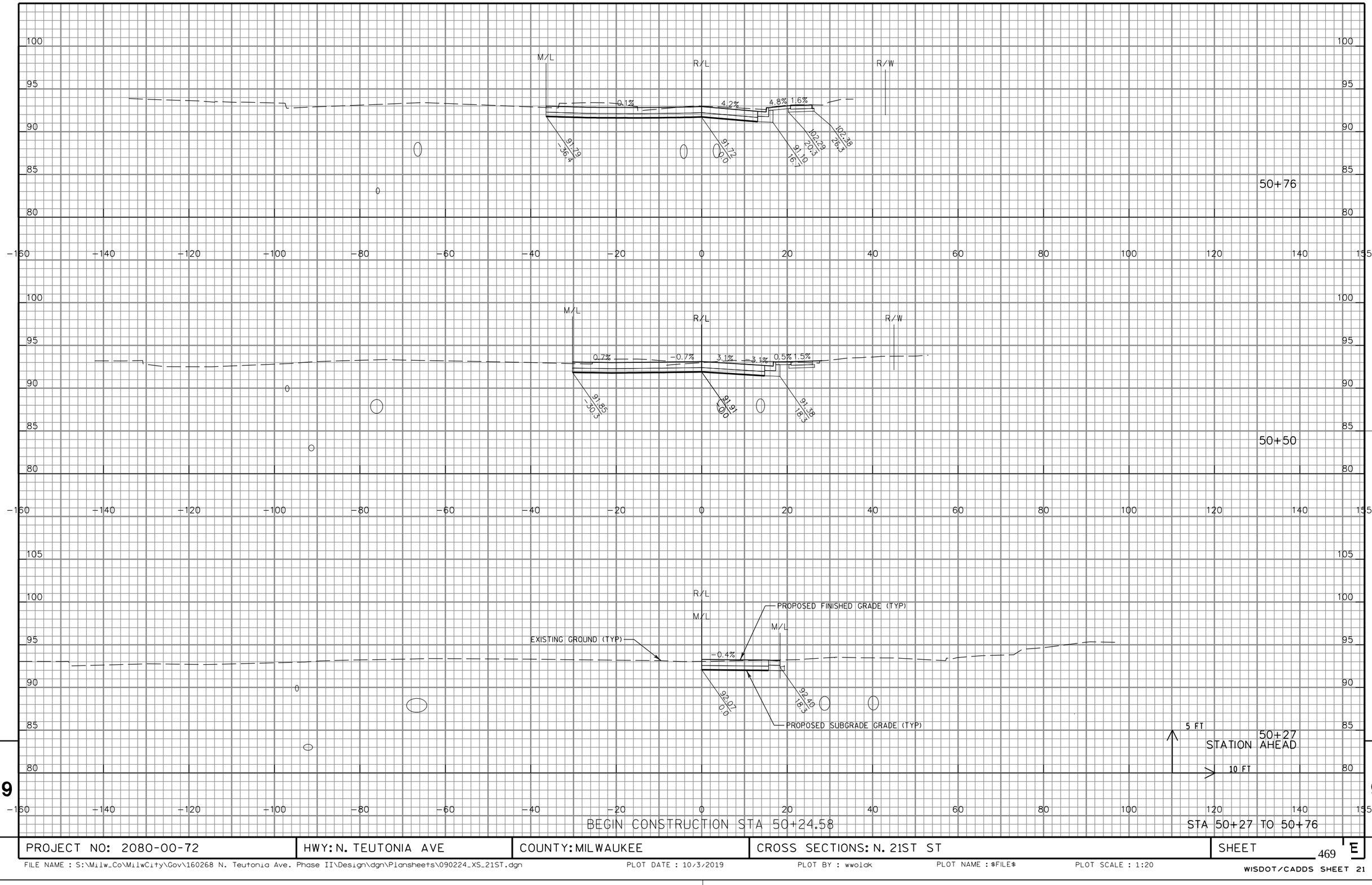
9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 21ST ST	SHEET 468 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090224_XS_21ST.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



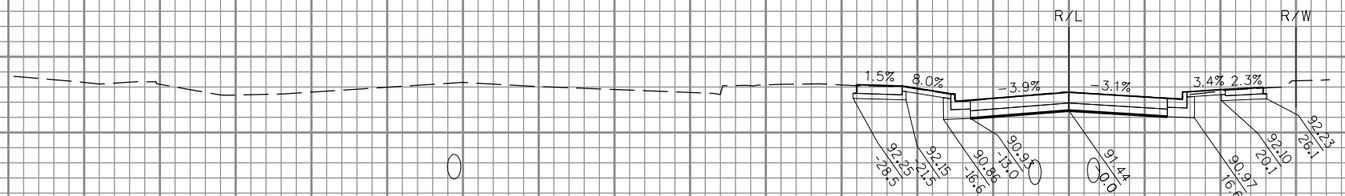
PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 21ST ST	SHEET 469 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090224_XS_21ST.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

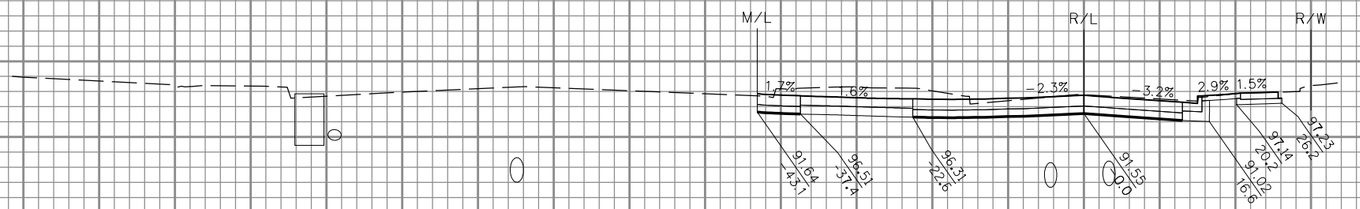
WISDOT/CADDS SHEET 21

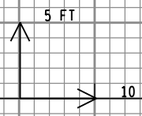
END CONSTRUCTION STA 51+20.28

51+20
STATION BACK



51+15





51+00

STA 51+00 TO 51+20

9

9

PROJECT NO: 2080-00-72	HWY: N. TEUTONIA AVE	COUNTY: MILWAUKEE	CROSS SECTIONS: N. 21ST ST	SHEET 470 E

FILE NAME : S:\Milw_Co\MilwCity\Gov\160268 N. Teutonia Ave. Phase II\Design\dgn\Plansheets\090224_XS_21ST.dgn PLOT DATE : 10/3/2019 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

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