DRAFT PLAN
FOR REVIEW ONLY
OCTOBER 21, 2016

CITY OF WAUKESHA

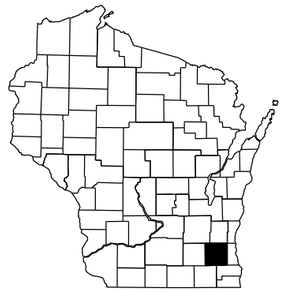
PLAN OF PROPOSED IMPROVEMENT

MEADOWBROOK ROAD

NORTHVIEW RD TO ROLLING RIDGE DR

WAUKESHA COUNTY

COUNTY: WAUKESHA



DESIGN DESIGNATION

A.A.D.T.	2017	=	21200
A.A.D.T.	2037	=	26800
D.H.V.		=	XXXXX
D.D.		=	59/41
T.		=	8.3%
DESIGN SPEED		=	40 MPH / 30 MPH
ESALS		=	XXXXX

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)

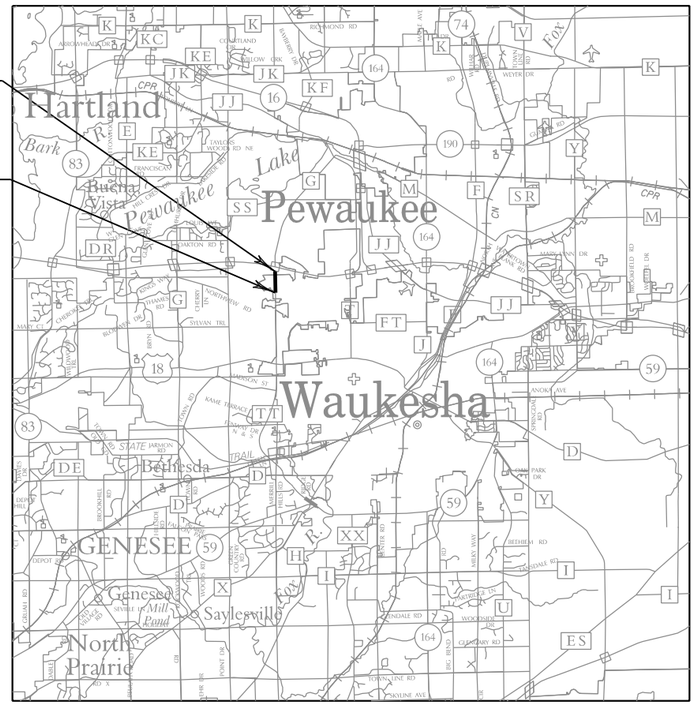
UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

END PROJECT
STA 372+60.00

BEGIN PROJECT
STA 342+31.74

R-18-E R-19-E R-20-E



N

T-7-N

T-6-N

LAYOUT
SCALE 0 0.75 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.574 MI.

-COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WAUKESHA COUNTY NAVD 83 (1991).
-ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (1991).

ROADWAY PLANS PREPARED BY
KAPUR & ASSOCIATES
CONSULTING ENGINEERS
414.751.7200

STORM SEWER AND BIOFILTER PLANS PREPARED BY
GRAEF

STORM SEWER STRUCTURE PLANS PREPARED BY
GRAEF

PREPARED BY

Surveyor	KAPUR & ASSOCIATES
Designer	KAPUR & ASSOCIATES
Project Manager	KURT FARRENKOPF

APPROVED FOR THE CITY OF WAUKESHA

DATE:_____ _____
(Signature)

E

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.

SANITARY SEWER LATERALS ARE OWNED BY THE RESPECTIVE PROPERTY OWNER AND WILL NOT BE MARKED IN THE FIELD BY THE CITY OF WAUKESHA.

ALL PRIVATE EXISTING UTILITIES NOT INCLUDED IN THE PLAN ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED. STORM SEWER MANHOLES 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.

THE EARTHWORK YARDAGE WAS ESTIMATED BY EXPANDING THE FILL VOLUME. AN EXPANSION FACTOR OF 1.2 WAS USED.

THE LOCATION AND LIMITS OF EBS (EXCAVATION BELOW SUBGRADE), IF REQUIRED, WILL BE DETERMINED BY THE ENGINEER. SUCH EBS SHALL NOT BE USED TO BALANCE YARDAGE. EBS WILL BE PAID UNDER ITEM, "EXCAVATION COMMON."

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN THE FLOODPLAIN OR WETLAND AREAS.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL OR SALVAGED TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE PLACED A MINIMUM OF 4 INCHES IN DEPTH.

SALVAGED TOPSOIL SHALL NOT BE PLACED ON SUBGRADE UNTIL APPROVED BY ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED BY DIRECTION OF THE ENGINEER WITH THE FOLLOWING FINISHING ITEMS: SALVAGED TOPSOIL, SOD, AND FERTILIZER. QUANTITIES FOR FINISHING ITEMS INCLUDE RESTORATION EXTENDING 3 FEET BEYOND THE SLOPE INTERCEPT SHOWN ON THE PLANS. DISTURBED AREAS SHALL HAVE FINISHING ITEMS APPLIED WITHIN 15 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

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.

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 GRANULAR BACKFILL.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR MUST VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.

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

LOCATION AND ELEVATION OF STORM SEWER STRUCTURES IN CURB AND GUTTER SECTION REFER TO FLOW LINE OF CURB.

LOCATION AND ELEVATION OF STORM SEWER STRUCTURES NOT IN CURB AND GUTTER REFER TO CENTERLINE OF COVER.

ADJUSTING MANHOLES TO GRADE SHALL BE COMPLETED AFTER PAVING LOWER LAYER OF ASPHALT PAVEMENT. MANHOLE ADJUSTMENT SHALL INCLUDE REMOVAL OF RINGS DOWN TO THE CHIMNEY STRUCTURE AND PLACEMENT OF NEW ADJUSTMENT RINGS.

EXISTING INLET AND MANHOLE COVERS THAT ARE NOT REQUIRED TO BE REUSED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CITY OF WAUKESHA.

REINFORCED CONCRETE APRON ENDWALLS AND ADJOINING TWO SECTIONS OF CONCRETE PIPE WILL BE TIED TOGETHER AS SHOWN ON THE STANDARD DETAIL DRAWINGS. JOINT TIES WILL BE INCIDENTAL ITEMS INCLUDED IN THE COST OF THE CONCRETE PIPE.

CURB HEIGHTS AT THE END OF CURB AND GUTTER WILL BE TAPERED FROM 0 TO 6 INCHES OVER 10 FEET. CHANGES IN CURB TYPE SHALL TRANSITION OVER 10 FEET.

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

EXPANSION JOINTS ARE TO BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB AND GUTTER ADJACENT TO CONCRETE PAVEMENT.

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

FINAL LOCATIONS OF CURB RAMP OPENINGS, SIGNALS, LIGHTING BASES, HIYDRANTS, AND STORM SEWER INLETS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.

TRAFFIC SIGNALS, LIGHT POLES, SIGN POSTS, AND SIGN PLATES SHALL BE PLACED OUTSIDE THE LATERAL CLEARANCE ZONE (MINIMUM 2 FEET FROM FACE OF CURB).

THE LOCATION OF SIDEWALK AND DRIVEWAY REMOVALS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

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

CONCRETE DRIVEWAY REMOVAL WILL BE PAID FOR AS REMOVING PAVEMENT.

BROKEN CONCRETE CONTAINING RE-BAR WILL NOT BE USED AS RIPRAP OR HEAVY RIPRAP.

A SAWED JOINT IS REQUIRED WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

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).

SIGNS TO BE MOVED WILL BE STORED AND PROTECTED BY THE CONTRACTOR, FREE FROM DAMAGE, UNTIL SUCH TIME AS THEY ARE REINSTALLED.

UTILITY CONTACTS

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

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CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD GENERAL NOTES	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. 2 E PROJECT NO:

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
CTH	COUNTY TRUNK HIGHWAY
CWT	HUNDRED WEIGHT
D	DEGREE OF CURVE
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
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
LC	LONG CHORD
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
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
PT	POINT OF TANGENCY
PAV'T	PAVEMENT
PCC	PORTLAND CEMENT CONCRETE
R	RADIUS OR RANGE
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
RT	RIGHT
RW	RETAINING WALL
S	SOUTH
SALV	SALVAGED
SAN	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

DESIGN INDEX

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STORM SEWER
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STAGE CONSTRUCTION
TRAFFIC CONTROL
ALIGNMENT PLAN

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
GENERAL NOTES

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:100
PLOT DATE : 10/21/2016

SHEET NO. 3 E
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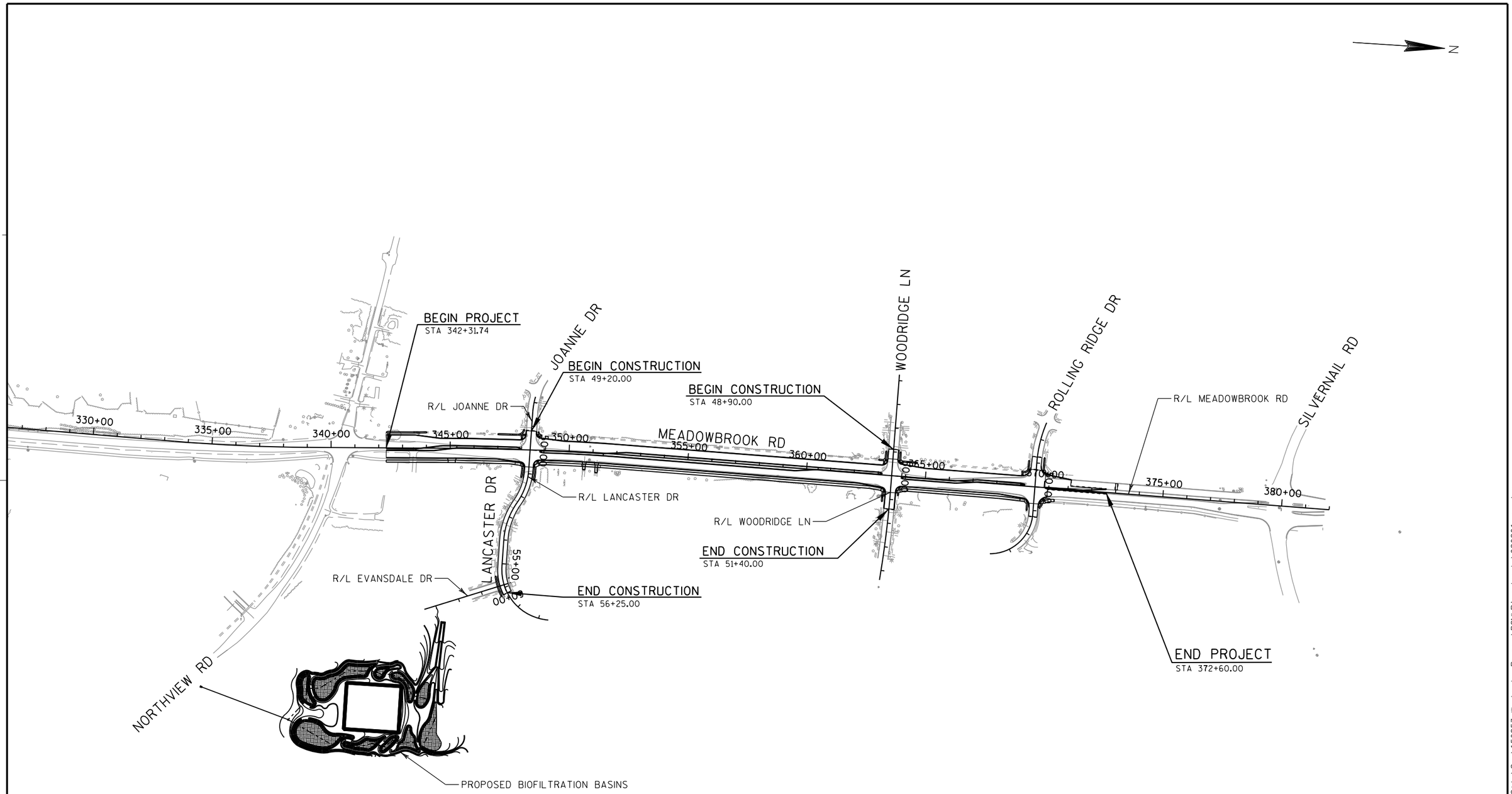

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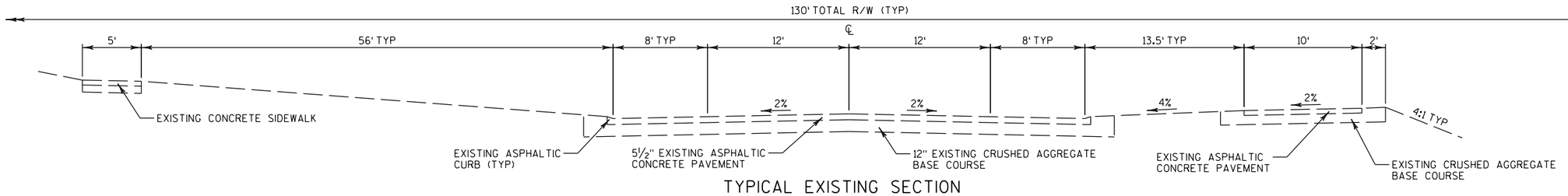
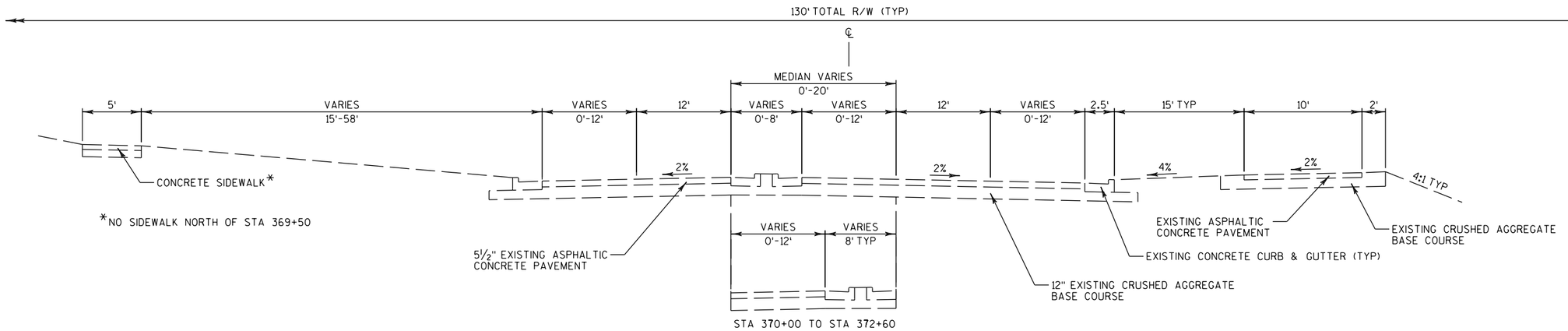


TYPICAL EXISTING SECTION

MEADOWBROOK RD
STA 342+31.74 TO STA 365+50



STA 370+00 TO STA 372+60

TYPICAL EXISTING SECTION

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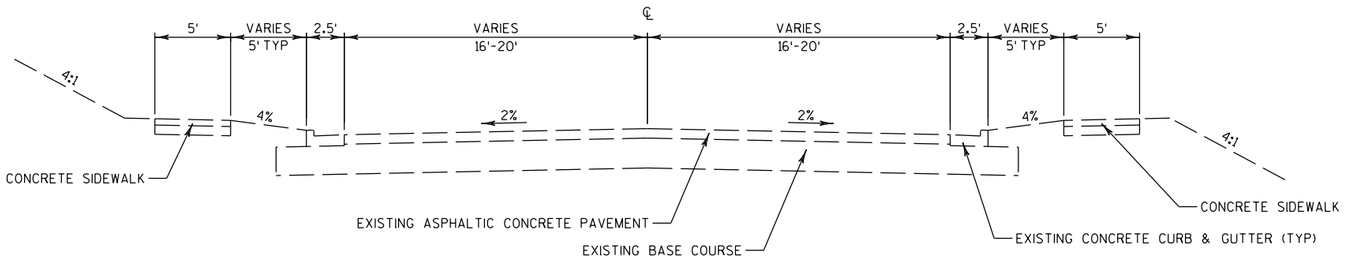
STA 365+50 TO STA 372+60



TYPICAL EXISTING SECTION

JOANNE DR
STA 49+20 TO STA 49+42.05
LANCASTER DR
STA 50+57.78 TO STA 56+25
WOODRIDGE LN
STA 48+90 TO STA 49+43.52
STA 50+56.43 TO STA 51+40
ROLLING RIDGE DR
STA 48+75 TO STA 49+28.50
STA 50+70.53 TO STA 51+25

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TYPICAL EXISTING SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:10 PLOT DATE : 10/21/2016	SHEET NO. 5 E PROJECT NO:

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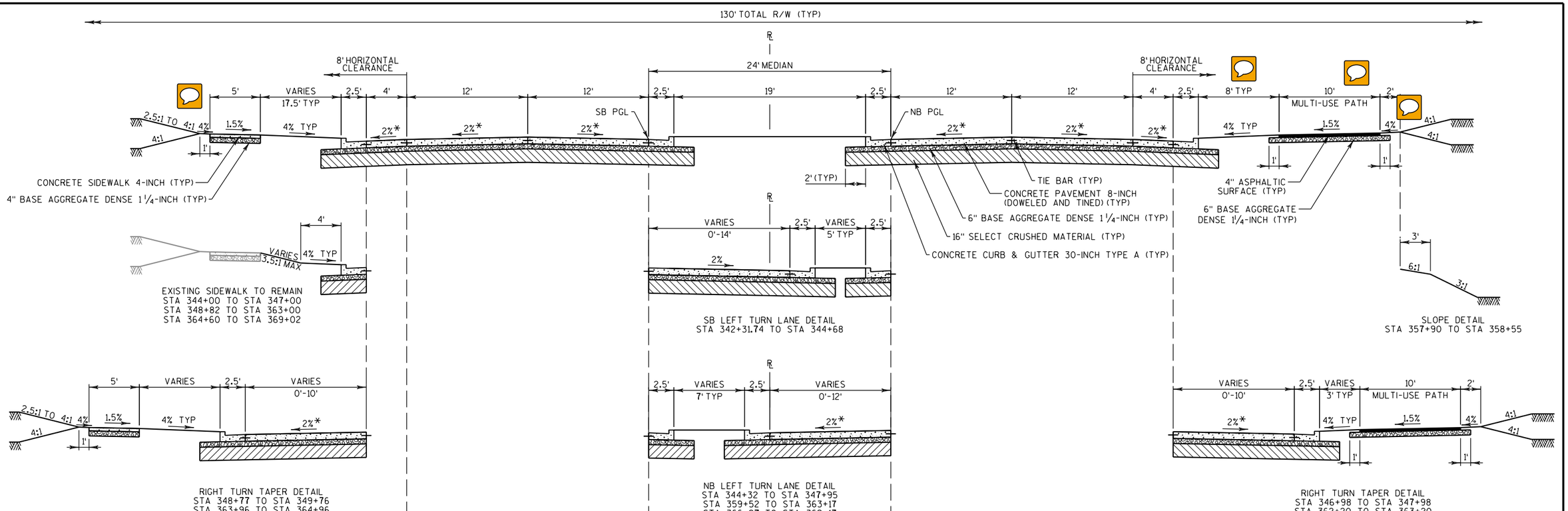
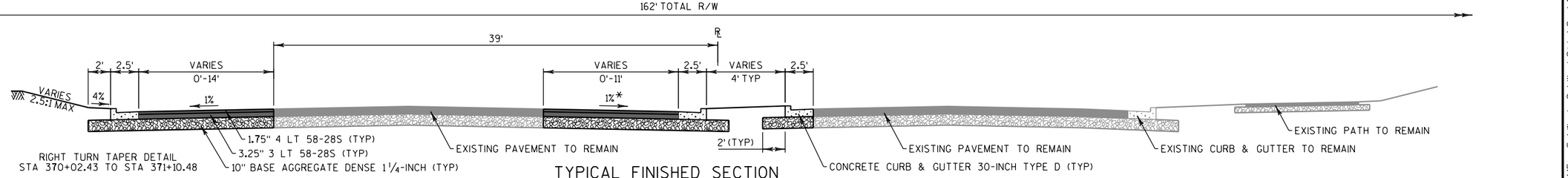


TYPICAL FINISHED SECTION

MEADOWBROOK RD
STA 342+31.74 TO STA 370+02.43 LT/370+13.95 RT



TYPICAL FINISHED SECTION

MEADOWBROOK RD
STA 370+02.43 TO STA 372+60.00

* CROSS SLOPE VARIES - SEE PAVING GRADE SHEETS

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TYPICAL FINISHED SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:10 PLOT DATE : 10/21/2016	SHEET NO. 6 E PROJECT NO:

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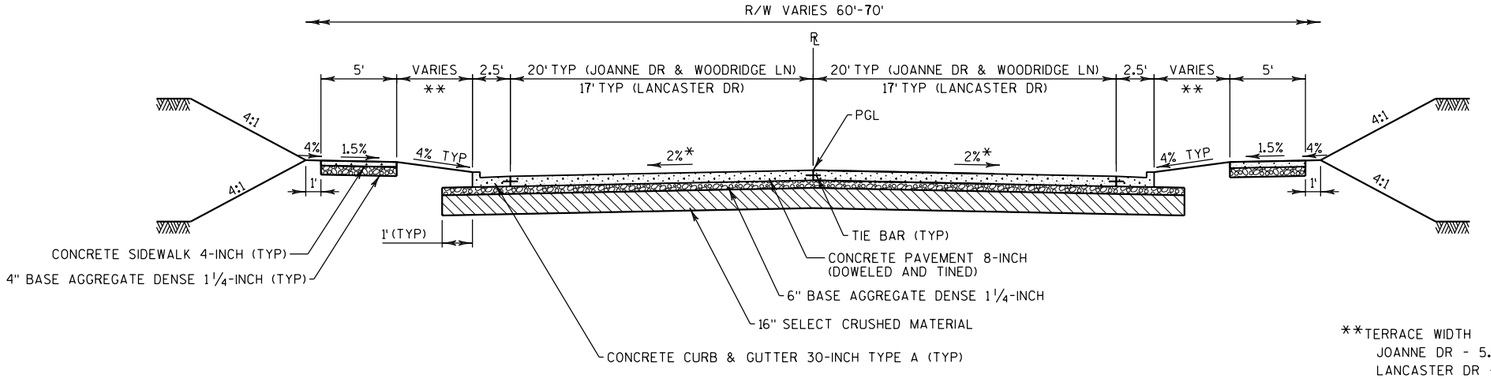
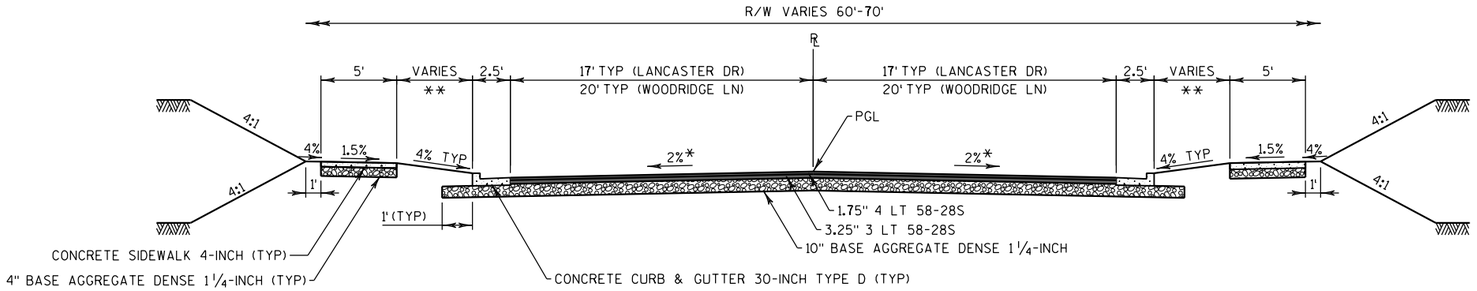


**TERRACE WIDTH
JOANNE DR - 5.5' TYP
LANCASTER DR - 5.5' TYP
WOODRIDGE LN:
STA 48+90 TO STA 49+30.11 - 5.5' TYP
STA 50+56.43 TO STA 51+40 - 7.5' TYP

TYPICAL FINISHED SECTION

JOANNE DR
STA 49+20 TO STA 49+42.05
LANCASTER DR
STA 50+57.78 TO STA 50+71.50
WOODRIDGE LN
STA 49+30.11 TO STA 49+43.52
STA 50+56.43 TO STA 50+70.50



EXISTING SIDEWALK TO REMAIN
WOODRIDGE LN STA 50+80 TO STA 51+40 LT

EXISTING SIDEWALK TO REMAIN
WOODRIDGE LN STA 51+10 TO STA 51+40 RT

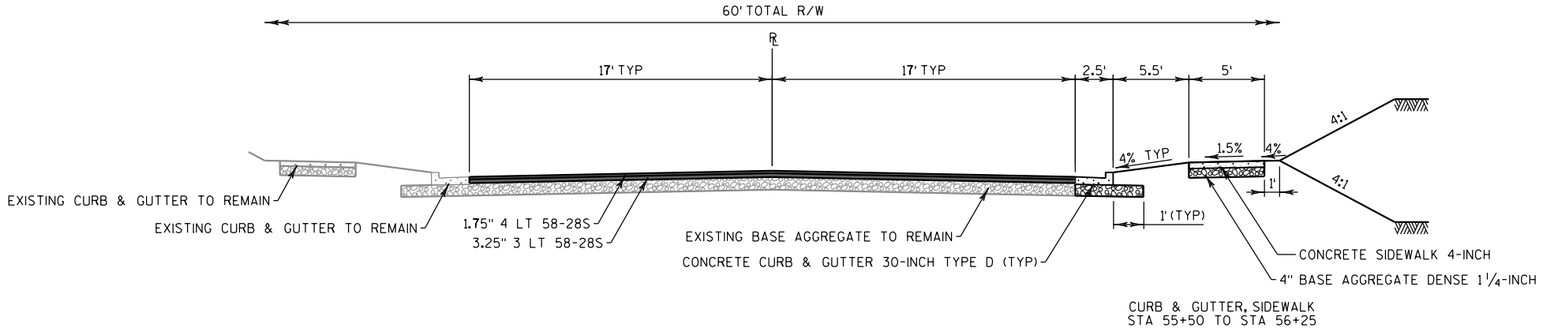
TYPICAL FINISHED SECTION

LANCASTER DR
STA 50+71.50 TO STA 51+20
WOODRIDGE LN
STA 48+90 TO STA 49+30.11
STA 50+70.50 TO STA 51+40

* CROSS SLOPE VARIES - SEE PAVING GRADE SHEETS

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TYPICAL FINISHED SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:10 PLOT DATE : 10/21/2016	SHEET NO. 7 E PROJECT NO:

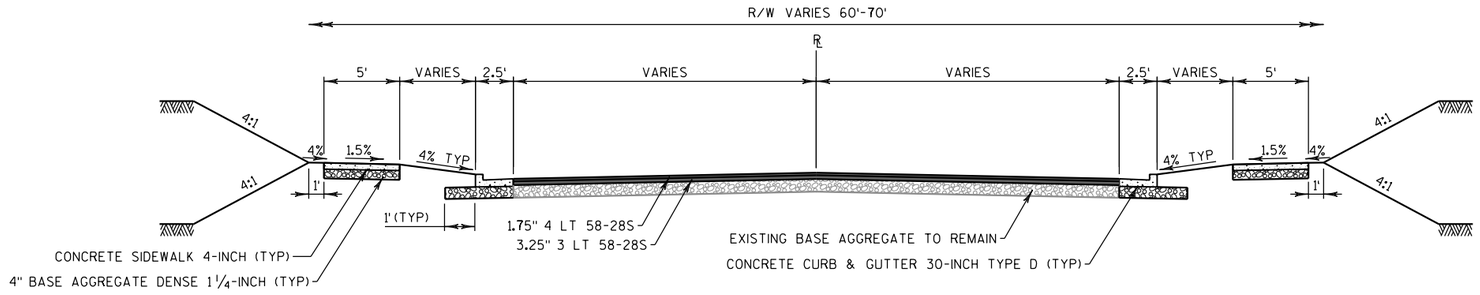
FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\020302_ts.dgn



CURB & GUTTER, SIDEWALK
STA 55+50 TO STA 56+25

TYPICAL FINISHED SECTION

LANCASTER DR
STA 51+20 TO STA 56+25



CURB & GUTTER
STA 49+14.34 TO STA 49+28.50
STA 50+70.53 TO STA 50+83.06

SIDEWALK
STA 48+75 TO STA 49+28.50
STA 50+70.53 TO STA 50+87.41

CURB & GUTTER
STA 49+21.68 TO STA 49+28.50
STA 50+70.55 TO STA 50+87.38

SIDEWALK
STA 48+93.87 TO STA 49+28.50
STA 50+80.55 TO STA 51+00

TYPICAL FINISHED SECTION

ROLLING RIDGE DR
STA 48+75 TO STA 49+28.50
STA 50+70.53 TO STA 51+25

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TYPICAL FINISHED SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:10 PLOT DATE : 10/21/2016	SHEET NO. 8 E PROJECT NO:

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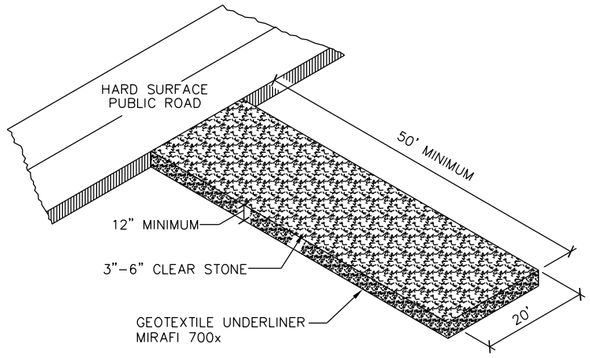
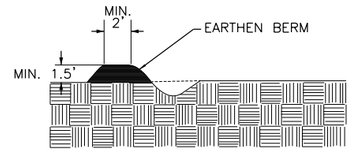


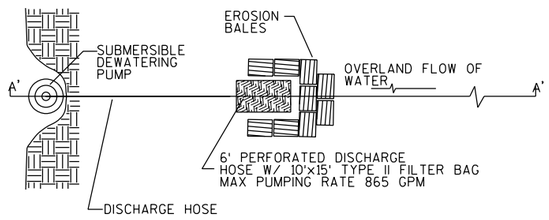
CRUSHED STONE CONSTRUCTION ENTRANCE

N.T.S.

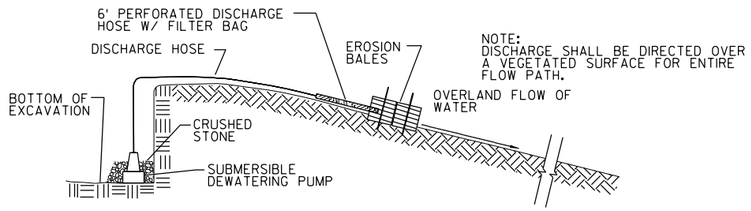


DIVERSION DITCH

N.T.S.



PLAN

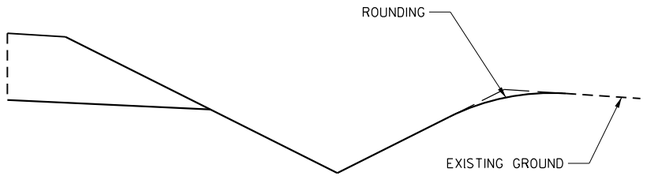


DEWATERING SEDIMENT CONTROL

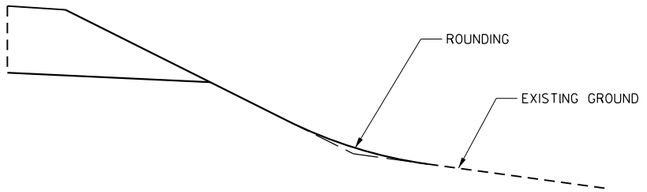
N.T.S.

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021001_CD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CONSTRUCTION DETAILS	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. 9 E PROJECT NO:

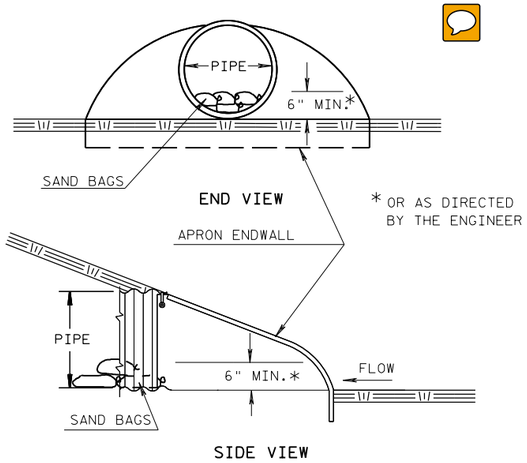


IN CUT



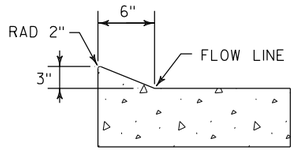
IN FILL

SLOPE ROUNDING DETAIL

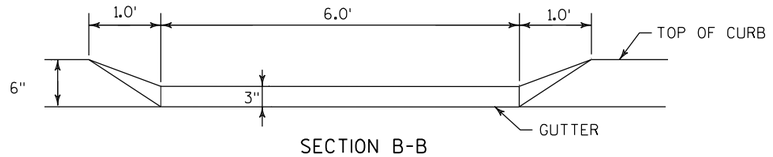


CULVERT PIPE CHECK

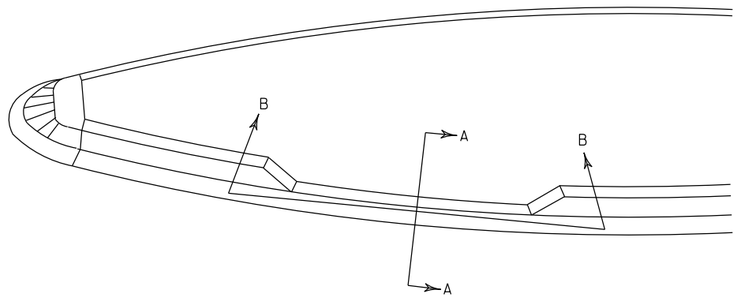
SEE EROSION CONTROL PLAN FOR LOCATIONS



SECTION A-A



SECTION B-B



MAINTENANCE RAMP

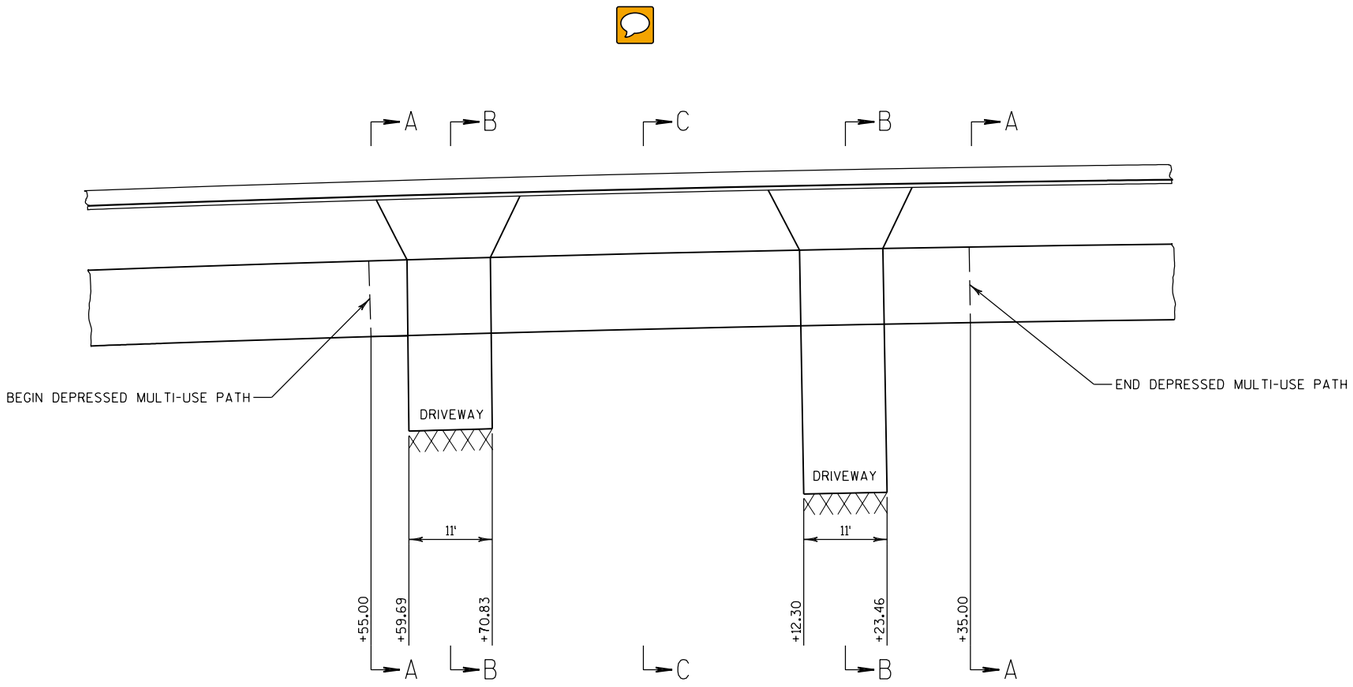
INSTALL AS DIRECTED BY ENGINEER

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021001_CD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CONSTRUCTION DETAILS	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **10** **E** PROJECT NO:

LEGEND

① CONCRETE CURB & GUTTER 30-INCH TYPE A
② 4" ASPHALTIC SURFACE
③ 6" BASE AGGREGATE DENSE 1 1/4-INCH
④ 4" BASE AGGREGATE DENSE 1 1/4-INCH
⑤ CONCRETE DRIVEWAY 6-INCH
⑥ 4" ASPHALTIC SURFACE DRIVEWAY

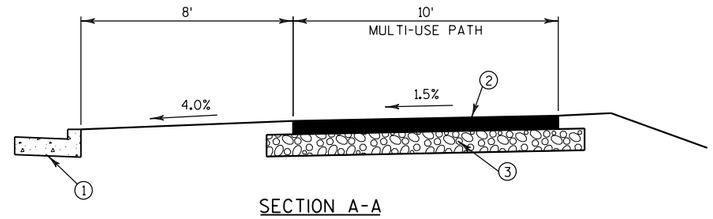


PLAN VIEW

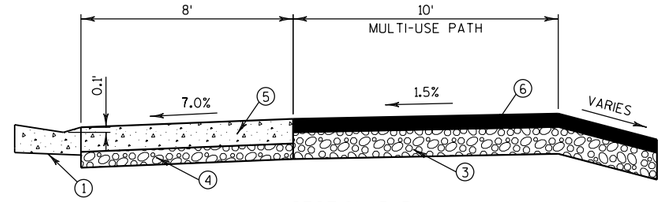
NOTE: LONGITUDINAL SLOPE ALONG MULTI-USE PATH NOT TO EXCEED 5%

DEPRESSED MULTI-USE PATH DETAIL

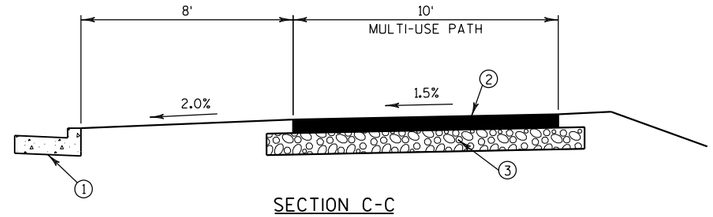
SEE PLAN DETAILS FOR LOCATIONS



SECTION A-A
NTS



SECTION B-B
NTS



SECTION C-C
NTS

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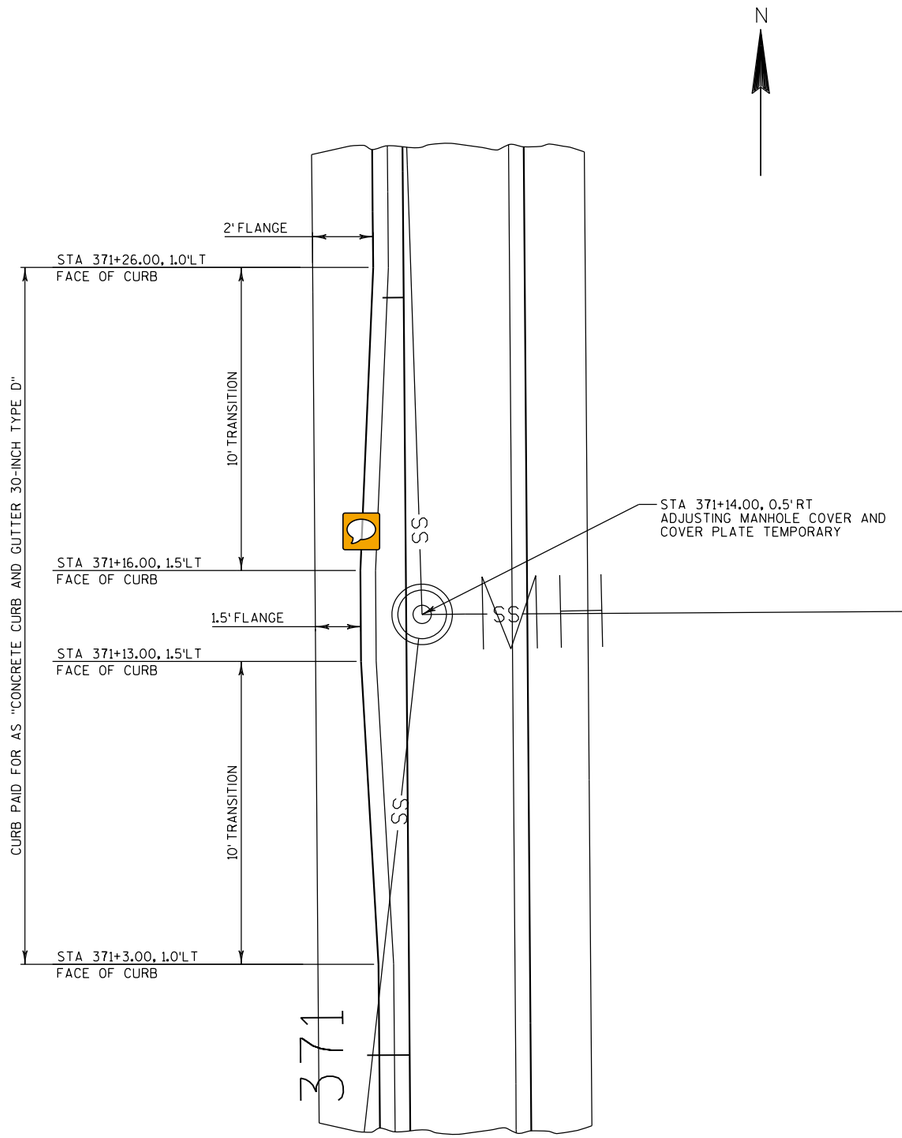
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CONSTRUCTION DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. 11 E PROJECT NO:

NOTES:

1) REMOVAL, STORAGE AND REINSTALLATION OF MANHOLE COVER SHALL BE INCIDENTAL TO BID ITEM "ADJUSTING MANHOLE COVERS".

2) COVER PLATE TEMPORARY TO BE INSTALLED PRIOR TO TEMPORARY PAVEMENT OPTIONS.

3) COORDINATE WITH CITY OF WAUKESHA MUNICIPAL GARAGE TO HAVE MAINLINE SANITARY SEWER FLUSHED IMMEDIATELY PRIOR TO PLATING



MANHOLE AND CURB DETAIL
STA 371+14.00

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021003_CD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CONSTRUCTION DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:5 PLOT DATE : 10/21/2016	SHEET NO. 12 E PROJECT NO:

LEGEND

X = CLEARING & GRUBBING

XXX SAWING CONCRETE/ASPHALT

N

EXISTING R/W

NORTHVIEW RD

BEGIN PROJECT
STA 342+31.74

SLOPE INTERCEPT

REMOVING SIDEWALK

MATCH LINE STA 344+07

R/L MEADOWBROOK RD

338 339 340 341 342 343 344

MEADOWBROOK RD

SIGN

SIGN

EXISTING R/W

SLOPE INTERCEPT

NORTHVIEW RD

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD REMOVAL PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 13 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021101_RM.dgn

LEGEND

X = CLEARING & GRUBBING

XXX SAWING CONCRETE/ASPHALT

REMOVING ASPHALTIC SURFACE

N

MATCH LINE STA 344+07

SLOPE INTERCEPT

EXISTING R/W

R/L MEADOWBROOK RD

REMOVING STORM SEWER (24-INCH)

REMOVING INLET

REMOVING SIDEWALK

REMOVING STORM SEWER (48-INCH)

REMOVING CURB & GUTTER

MEADOWBROOK RD

344 345 346 347 348 349 350

JOANNE DR

49 50 51

R/L JOANNE DR

BEGIN CONSTRUCTION
STA 49+20.00

EXISTING STORM SEWER TO REMAIN

REMOVING INLET

REMOVING SIDEWALK

EXISTING R/W

REMOVING CURB & GUTTER

REMOVING MANHOLE

REMOVING FENCE

REMOVING STORM SEWER (18-INCH)

MATCH LINE STA 350+07

EXISTING R/W

SLOPE INTERCEPT

REMOVING CURB & GUTTER

REMOVING SIDEWALK

REMOVING INLET

REMOVING STORM SEWER (12-INCH)

LANCASTER DR

R/L LANCASTER DR

EXISTING R/W

EXISTING R/W

REMOVING CURB & GUTTER

EXISTING R/W

REMOVING SIDEWALK

REMOVING STORM SEWER (12-INCH)

REMOVING INLET

SLOPE INTERCEPT

NOT TO SCALE

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD REMOVAL PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 14 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021102_RM.dgn

N

LEGEND

X = CLEARING & GRUBBING

XXX SAWING CONCRETE/ASPHALT

MATCH LINE STA 350+07

MATCH LINE STA 356+07

SLOPE INTERCEPT

EXISTING R/W

R/L MEADOWBROOK RD

350 351 352 353 354 355 356

MEADOWBROOK RD

EXISTING R/W

SLOPE INTERCEPT

REMOVING PAVEMENT

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD REMOVAL PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 15 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021103_RM.dgn

N

LEGEND

X = CLEARING & GRUBBING

XXX SAWING CONCRETE/ASPHALT

MATCH LINE STA 356+07

MATCH LINE STA 362+07

SLOPE INTERCEPT

EXISTING R/W

R/L MEADOWBROOK RD

356 357 358 359 360 361 362

MEADOWBROOK RD

SLOPE INTERCEPT

EXISTING R/W

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD REMOVAL PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 16	E
					PROJECT NO:	

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021104_RM.dgn

LEGEND

X = CLEARING & GRUBBING

XXX SAWING CONCRETE/ASPHALT

N

WOODRIDGE LN

EXISTING R/W

R/L WOODRIDGE LN

BEGIN CONSTRUCTION
STA 48+90.00

MATCH LINE STA 362+07

MATCH LINE STA 368+07

REMOVING STORM SEWER (42-INCH) (STA 49+40 to 49+00)

REMOVING STORM SEWER (12-INCH)

REMOVING SIDEWALK

REMOVING CURB & GUTTER

REMOVING INLET

REMOVING MANHOLE

SLOPE INTERCEPT

R/L MEADOWBROOK RD

MEADOWBROOK RD

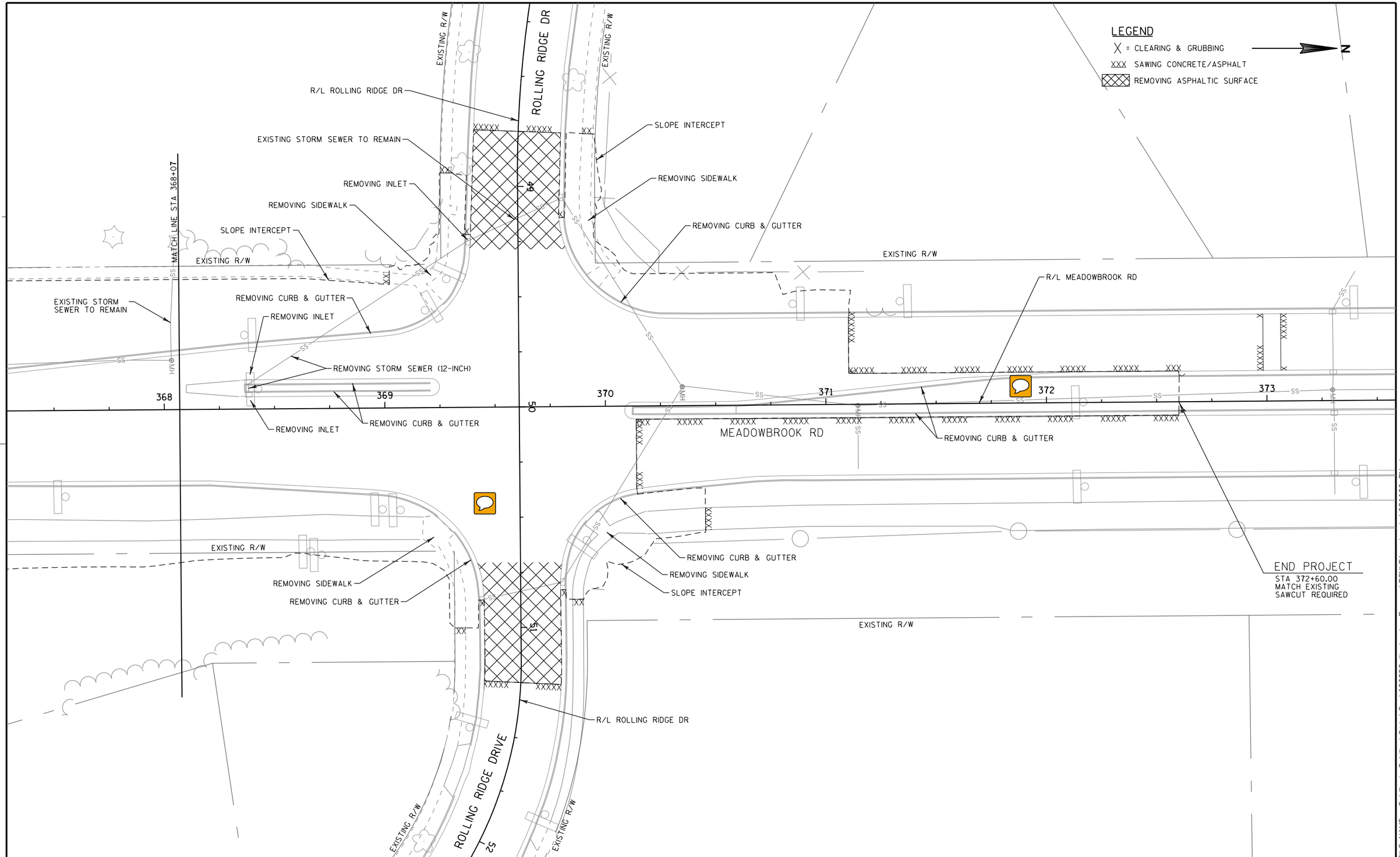
362 363 364 365 366 367 368

49 50 51

END CONSTRUCTION
STA 51+40.00

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021105_RM.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD REMOVAL PLAN	APPROVED: DATE: APPROVED: DATE:	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 17 E PROJECT NO:



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CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD REMOVAL PLAN	APPROVED: DATE: APPROVED: DATE:	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 18 E PROJECT NO:

LEGEND

X = CLEARING & GRUBBING

XXX SAWING CONCRETE/ASPHALT

REMOVING ASPHALTIC SURFACE

N

REMOVING CURB & GUTTER

SLOPE INTERCEPT

REMOVING SIDEWALK

SIGN

SS

CMH

EXISTING R/W

51

52

LANCASTER DR

R/L LANCASTER DR

53

54

55

56

57

END CONSTRUCTION
STA 56+25.00

REMOVING SIDEWALK

REMOVING CURB & GUTTER

REMOVING SIDEWALK

REMOVING SIDEWALK

R/L EVANSDALE DR

REMOVING CURB & GUTTER

EVANSDALE DR

61

62

MEADOWBROOK RD

REMOVING SIDEWALK

SLOPE INTERCEPT

REMOVING CURB & GUTTER

EXISTING R/W

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD REMOVAL PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 19 E PROJECT NO:

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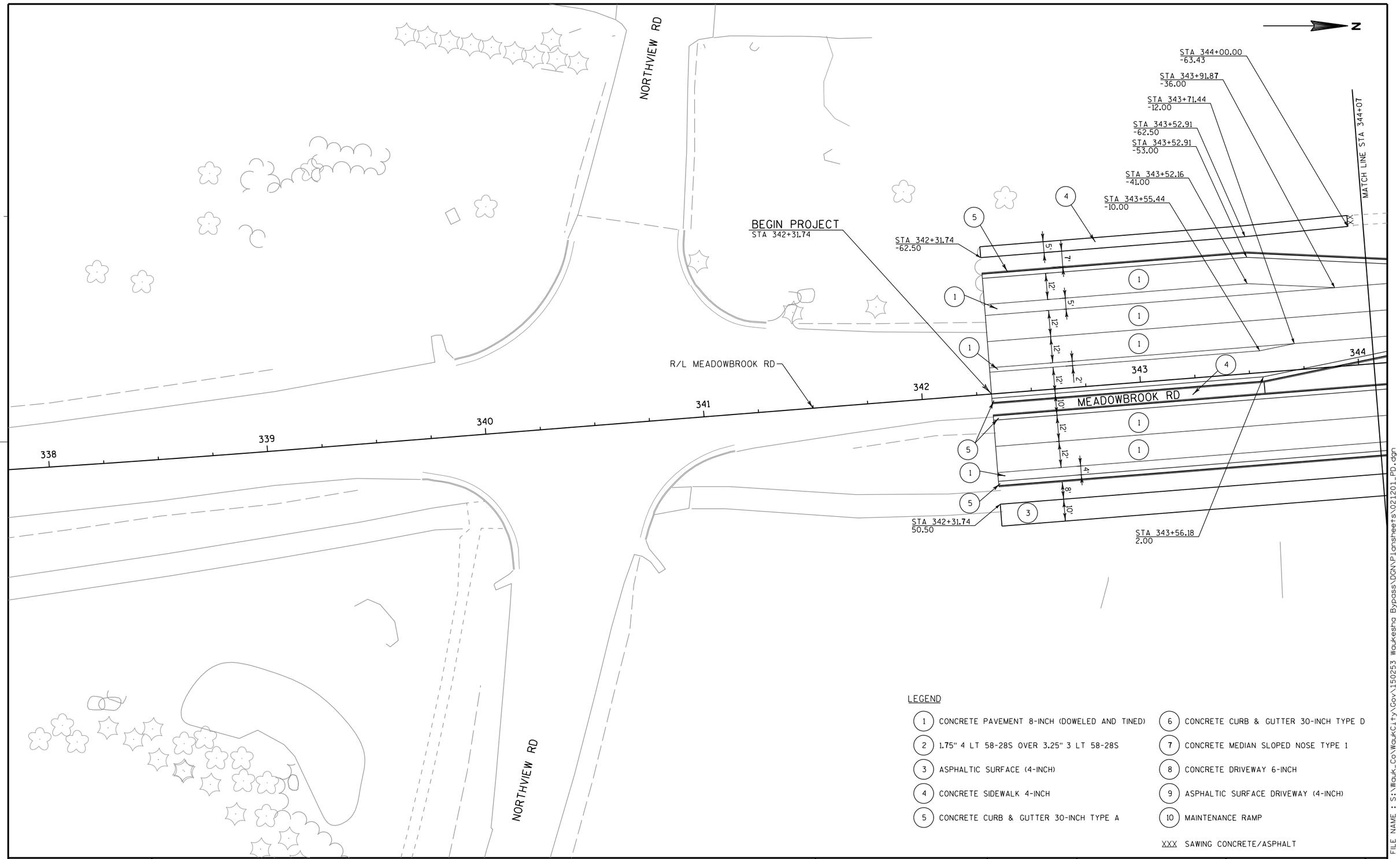


LEGEND

1	CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)	6	CONCRETE CURB & GUTTER 30-INCH TYPE D
2	1.75" 4 LT 58-28S OVER 3.25" 3 LT 58-28S	7	CONCRETE MEDIAN SLOPED NOSE TYPE 1
3	ASPHALTIC SURFACE (4-INCH)	8	CONCRETE DRIVEWAY 6-INCH
4	CONCRETE SIDEWALK 4-INCH	9	ASPHALTIC SURFACE DRIVEWAY (4-INCH)
5	CONCRETE CURB & GUTTER 30-INCH TYPE A	10	MAINTENANCE RAMP

XXX SAWING CONCRETE/ASPHALT

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021201_PD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **20**	**E**
					PROJECT NO:	

LEGEND

1. CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)
2. 1.75" 4 LT 58-28S OVER 3.25" 3 LT 58-28S
3. ASPHALTIC SURFACE (4-INCH)
4. CONCRETE SIDEWALK 4-INCH
5. CONCRETE CURB & GUTTER 30-INCH TYPE A
6. CONCRETE CURB & GUTTER 30-INCH TYPE D
7. CONCRETE MEDIAN SLOPED NOSE TYPE 1
8. CONCRETE DRIVEWAY 6-INCH
9. ASPHALTIC SURFACE DRIVEWAY (4-INCH)
10. MAINTENANCE RAMP

XXX SAWING CONCRETE/ASPHALT

N

MATCH LINE STA 344+07

MATCH LINE STA 350+07

R/L MEADOWBROOK RD

MEADOWBROOK RD

JOANNE DR

R/L JOANNE DR

BEGIN CONSTRUCTION
STA 49+20.00

STA 344+56.16
-40.00

STA 344+68.18
-12.00

STA 344+32.32
12.00

+88.54

+26.52

STA 345+28.32
0.00

STA 346+97.93
40.00

STA 347+47.65
50.50

STA 347+97.92
50.00

STA 347+93.55, -65.00 R/L MEADOWBROOK RD =
STA 49+36.82, 45.00 R/L JOANNE DR
R=25'

STA 49+36.82
20.00

STA 347+93.55
-40.00

STA 347+73.82
-12.00

R=60'

STA 347+96.13
-7.70

REVERSE SLOPE
GUTTER AT NOSE

STA 347+96.12
-2.70

STA 347+78.32
0.00

STA 347+95.93, 69.90 R/L MEADOWBROOK RD =
STA 50+71.50, 37.00 R/L JOANNE DR
R=20'

STA 50+71.50
17.00

STA 49+28.37
-20.00

STA 348+78.82, -69.91 R/L MEADOWBROOK RD =
STA 49+28.37, -40.00 R/L JOANNE DR
R=20'

STA 348+76.71
-50.02

STA 349+76.12
-40.00

STA 348+93.45
0.00

STA 348+75.62
2.70

STA 348+75.62
7.70

STA 348+97.87
12.00

STA 348+75.20
40.00

STA 348+81.75
50.50

STA 348+75.20, 65.00 R/L MEADOWBROOK RD =
STA 50+63.31, -42.00 R/L JOANNE DR
R=25'

STA 50+63.31
-17.00

R/L LANCASTER DR

LANCASTER DR

344 345 346 347 348 349 350

49 50 51 52

20' 17' 5.5' 5' 12' 4' 8' 10'

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021202_PD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 21 E PROJECT NO:

LEGEND

(1)	CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)	(6)	CONCRETE CURB & GUTTER 30-INCH TYPE D
(2)	1.75" 4 LT 58-28S OVER 3.25" 3 LT 58-28S	(7)	CONCRETE MEDIAN SLOPED NOSE TYPE 1
(3)	ASPHALTIC SURFACE (4-INCH)	(8)	CONCRETE DRIVEWAY 6-INCH
(4)	CONCRETE SIDEWALK 4-INCH	(9)	ASPHALTIC SURFACE DRIVEWAY (4-INCH)
(5)	CONCRETE CURB & GUTTER 30-INCH TYPE A	(10)	MAINTENANCE RAMP
		XXX	SAWING CONCRETE/ASPHALT

N

MATCH LINE STA 350+07

MATCH LINE STA 356+07

STA 351+43.45
0.00

STA 352+39.45
-12.00

R/L MEADOWBROOK RD

MEADOWBROOK RD

350 351 352 353 354 355 356

4' 12' 12' 12' 12' 12' 12' 4' 8' 10'

4' 12' 12' 24' 12' 12' 4' 8' 10'

STA 350+65.26
-73.12

+56.21 +75.35

STA 351+17.88
-82.70

+08.40 +27.53

11' 11'

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021203_PD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 22 E PROJECT NO:

LEGEND

1	CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)	6	CONCRETE CURB & GUTTER 30-INCH TYPE D
2	1.75" 4 LT 58-28S OVER 3.25" 3 LT 58-28S	7	CONCRETE MEDIAN SLOPED NOSE TYPE 1
3	ASPHALTIC SURFACE (4-INCH)	8	CONCRETE DRIVEWAY 6-INCH
4	CONCRETE SIDEWALK 4-INCH	9	ASPHALTIC SURFACE DRIVEWAY (4-INCH)
5	CONCRETE CURB & GUTTER 30-INCH TYPE A	10	MAINTENANCE RAMP

XXX SAWING CONCRETE/ASPHALT

N

MATCH LINE STA 356+07

MATCH LINE STA 362+07

R/L MEADOWBROOK RD

MEADOWBROOK RD

356 357 358 359 360 361 362

4' 12' 12' 24' 12' 12' 4' 8' 10'

4' 12' 12' 12' 12' 12' 12' 4' 8' 10'

STA 359+51.52
12.00

STA 360+47.52
0.00

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021204_PD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **23** **E** PROJECT NO:

NOTES:

1) SEE CURB RAMP DETAILS FOR ADDITIONAL SIDEWALK DIMENSIONS AND CALLOUTS.

N

R/L WOODRIDGE LN

WOODRIDGE LN

MATCH LINE STA 362+07

MATCH LINE STA 368+07

BEGIN CONSTRUCTION
STA 48+90.00

STA 49+00.00
20.00

STA 49+00.00
28.00

STA 49+34.99
20.00

STA 49+00.00
-28.00

STA 49+30.11
-20.00

STA 363+12.52, -65.00 R/L MEADOWBROOK RD =
STA 49+34.99, 45.00 R/L WOODRIDGE LN
R=25'

STA 363+97.52, -69.90 R/L MEADOWBROOK RD =
STA 49+30.11, -40.00 R/L WOODRIDGE LN
R=20'

STA 363+12.52
-40.00

STA 363+95.53
-50.00

STA 364+95.52
-40.00

R/L MEADOWBROOK RD

STA 366+22.66
0.00

STA 367+18.66
-12.00

STA 362+97.63
-12.00

R=60'

STA 363+17.76
-8.52

STA 363+97.41
3.52

STA 364+17.66
0.00

REVERSE SLOPE
GUTTER AT NOSE

362 363 364 365 366 367 368

MEADOWBROOK RD

STA 362+97.52
0.00

STA 363+17.78
-3.52

STA 363+97.39
8.52

STA 364+17.52
12.00

STA 362+19.65
40.00

STA 362+69.37
50.50

STA 363+13.77
54.94

STA 363+19.65
50.00

STA 364+02.66
40.00

STA 364+13.97
50.50

STA 364+02.66, 65.00 R/L MEADOWBROOK RD =
STA 50+65.01, -45.00 R/L WOODRIDGE LN
R=25'

STA 363+17.66, 69.90 R/L MEADOWBROOK RD =
STA 50+69.94, 40.00 R/L WOODRIDGE LN
R=20'

STA 50+69.94
20.00

STA 50+65.01
-20.00

STA 50+80.00
-30.00

STA 51+10.00
30.00

R/L WOODRIDGE LN

WOODRIDGE LN

END CONSTRUCTION
STA 51+40.00

STA 366+26.94
12.00

STA 367+22.94
0.00

LEGEND

1	CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)	6	CONCRETE CURB & GUTTER 30-INCH TYPE D
2	1.75" 4 LT 58-28S OVER 3.25" 3 LT 58-28S	7	CONCRETE MEDIAN SLOPED NOSE TYPE 1
3	ASPHALTIC SURFACE (4-INCH)	8	CONCRETE DRIVEWAY 6-INCH
4	CONCRETE SIDEWALK 4-INCH	9	ASPHALTIC SURFACE DRIVEWAY (4-INCH)
5	CONCRETE CURB & GUTTER 30-INCH TYPE A	10	MAINTENANCE RAMP

XXX SAWING CONCRETE/ASPHALT

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN DETAILS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 24 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021205_PD.dgn

NOTES:

1) SEE CURB RAMP DETAILS FOR ADDITIONAL SIDEWALK DIMENSIONS AND CALLOUTS.

N

R/L ROLLING RIDGE DR

ROLLING RIDGE DR

BEGIN CONSTRUCTION
STA 48+75.00

STA 48+75.00
-29.00

STA 48+93.87
30.00

STA 49+21.68
21.58

STA 49+14.34
-18.61

STA 368+99.38, -80.00 R/L MEADOWBROOK RD =
STA 49+19.99, 61.54 R/L ROLLING RIDGE DR
R=40'

STA 370+10.48, -83.00 R/L MEADOWBROOK RD =
STA 49+17.01, -49.56 R/L ROLLING RIDGE DR
R=30'

STA 370+02.43
-54.10

MATCH LINE STA 368+07

STA 368+99.38
-40.00

STA 371+10.48
-39.50

R/L MEADOWBROOK RD

STA 372+98.43
-39.59

STA 373+06.43
-39.59

STA 371+85.33
-14.00

SEE CONSTRUCTION DETAIL
"MANHOLE AND CURB DETAIL"
FOR MORE INFORMATION

STA 370+03.29
-1.65

R=60'

STA 370+15.94
-3.00

STA 372+60.00
-14.00

STA 372+98.43
-13.91

STA 373+06.43
-13.91

STA 368+95.94
-12.00

R=60' STA 369+18.45
-7.62

368

369

370

371

372

373

MEADOWBROOK RD

STA 369+00.93
0.00

R=60'

STA 369+18.45
-2.62

STA 370+03.29
3.35

STA 370+05.00
6.00

STA 370+20.93
6.00

STA 372+60.00
6.00

R=60'

STA 370+13.95
37.46

STA 368+12.95
40.00

STA 369+15.00
12.00

STA 369+15.89
50.14

STA 368+12.95
50.50

STA 369+12.95, 80.00 R/L MEADOWBROOK RD =
STA 50+79.99, 47.99 R/L ROLLING RIDGE DR
R=30'

STA 370+19.37, 77.09 R/L MEADOWBROOK RD =
STA 50+77.10, -58.43 R/L ROLLING RIDGE DR
R=40'

R=67.2'

STA 50+70.53
19.53

STA 50+70.53
-18.97

R=57.3'

STA 50+87.41
-23.50

STA 51+00.00
25.00

STA 50+83.06
-18.08

STA 50+87.38
16.62

END CONSTRUCTION
STA 51+25.00

END PROJECT
STA 372+60.00
MATCH EXISTING
SAWCUT REQUIRED

R/L ROLLING RIDGE DR

ROLLING RIDGE DRIVE

LEGEND

1	CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)	6	CONCRETE CURB & GUTTER 30-INCH TYPE D
2	1.75" 4 LT 58-28S OVER 3.25" 3 LT 58-28S	7	CONCRETE MEDIAN SLOPED NOSE TYPE 1
3	ASPHALTIC SURFACE (4-INCH)	8	CONCRETE DRIVEWAY 6-INCH
4	CONCRETE SIDEWALK 4-INCH	9	ASPHALTIC SURFACE DRIVEWAY (4-INCH)
5	CONCRETE CURB & GUTTER 30-INCH TYPE A	10	MAINTENANCE RAMP

XXX SAWING CONCRETE/ASPHALT

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021206_PD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 25 E PROJECT NO:

LEGEND

(1)	CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)	(6)	CONCRETE CURB & GUTTER 30-INCH TYPE D
(2)	1.75" 4 LT 58-28S OVER 3.25" 3 LT 58-28S	(7)	CONCRETE MEDIAN SLOPED NOSE TYPE 1
(3)	ASPHALTIC SURFACE (4-INCH)	(8)	CONCRETE DRIVEWAY 6-INCH
(4)	CONCRETE SIDEWALK 4-INCH	(9)	ASPHALTIC SURFACE DRIVEWAY (4-INCH)
(5)	CONCRETE CURB & GUTTER 30-INCH TYPE A	(10)	MAINTENANCE RAMP

XXX SAWING CONCRETE/ASPHALT

N

END CONSTRUCTION
STA 56+25.00
MATCH EXISTING
SAW CUT REQ'D

R/L LANCASTER DR

LANCASTER DR

MEADOWBROOK RD

EVANSDALE DR

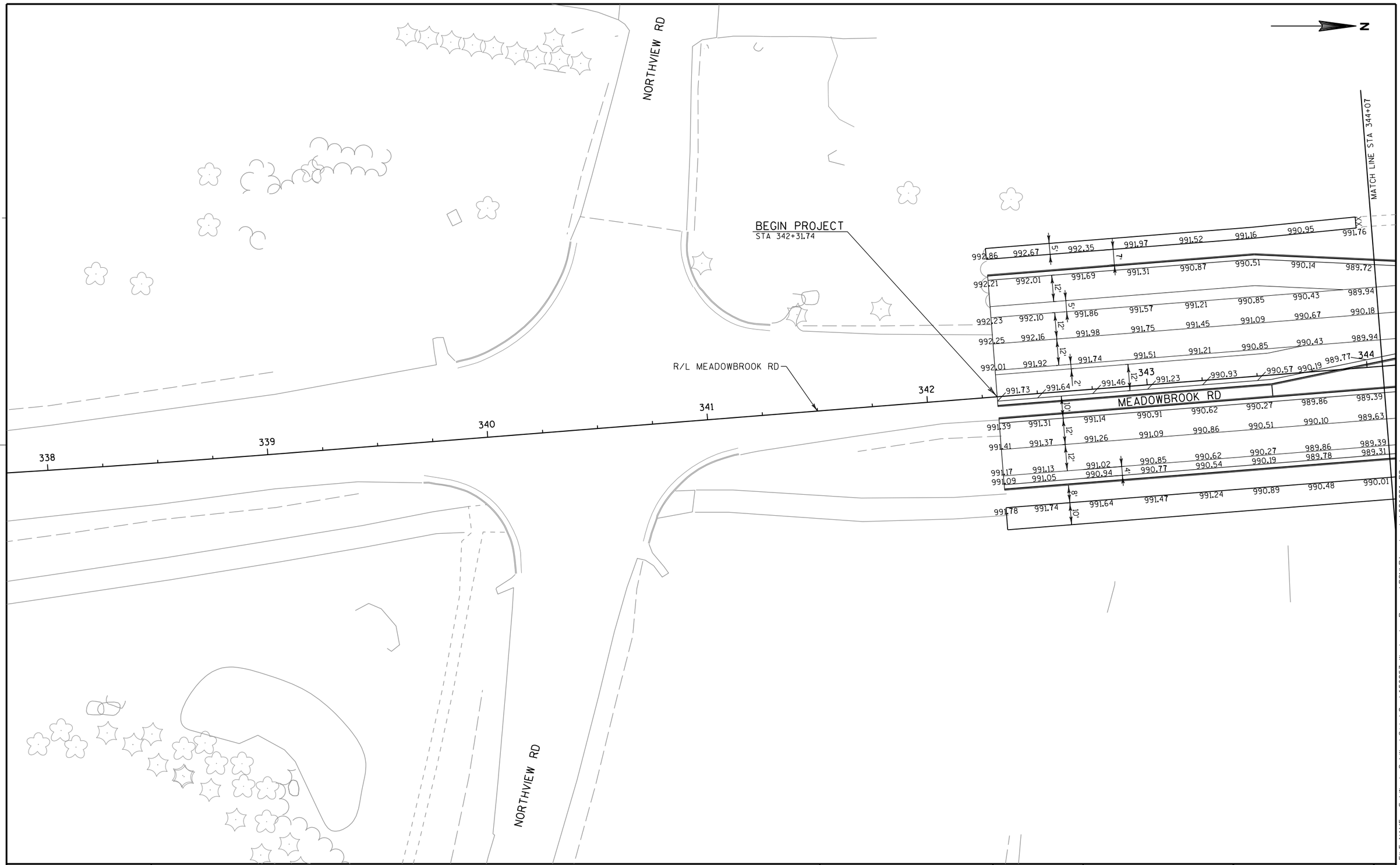
51 52 53 54 55 56 57 61 62

17' 17'

8' 5' 6'

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 26 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021208_PD.dgn

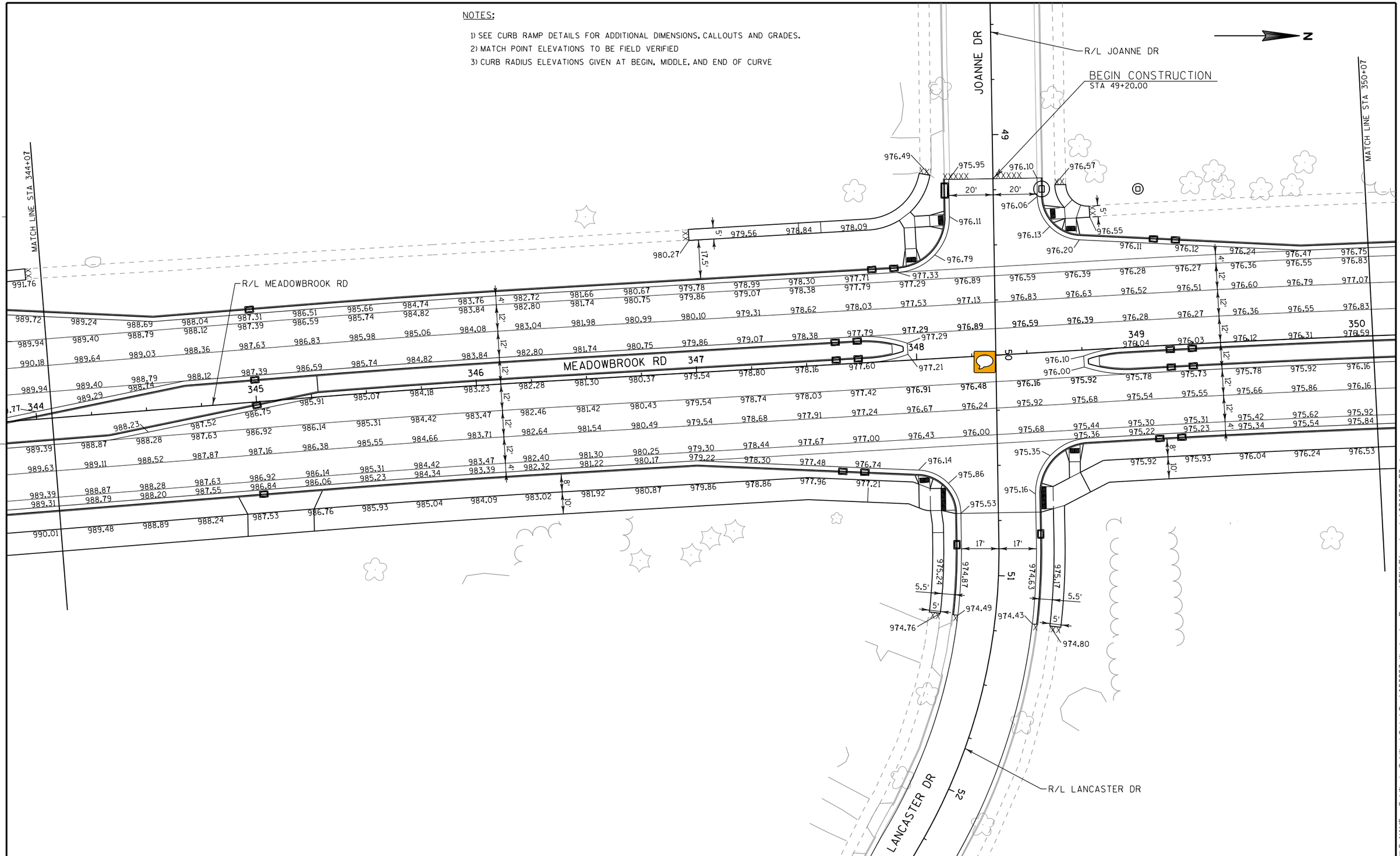


CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PAVING GRADES	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **27** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021221_PG.dgn

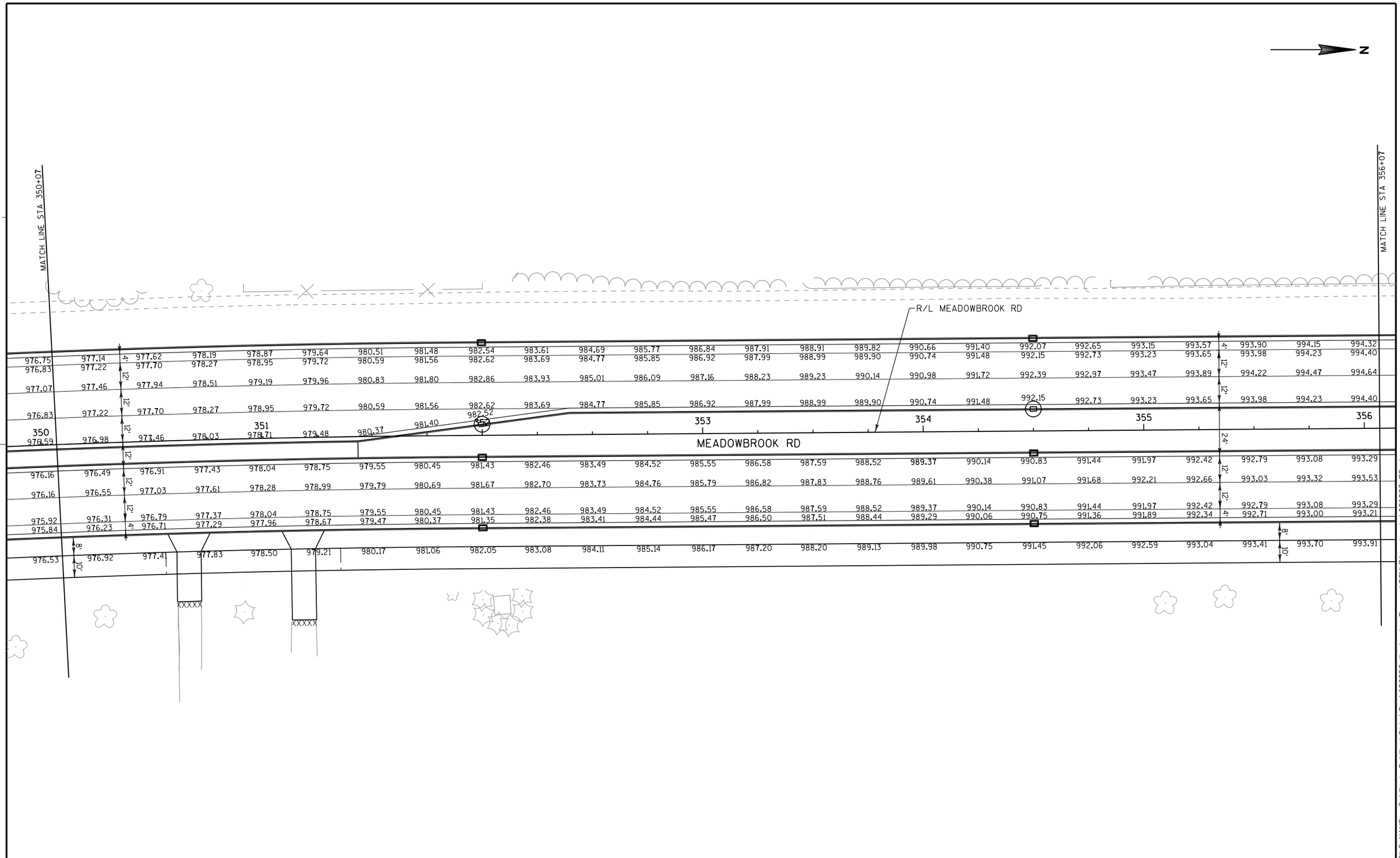
NOTES:

1) SEE CURB RAMP DETAILS FOR ADDITIONAL DIMENSIONS, CALLOUTS AND GRADES.
2) MATCH POINT ELEVATIONS TO BE FIELD VERIFIED
3) CURB RADIUS ELEVATIONS GIVEN AT BEGIN, MIDDLE, AND END OF CURVE



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PAVING GRADES	APPROVED: DATE: APPROVED: DATE:	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 28 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021222_PG.dgn



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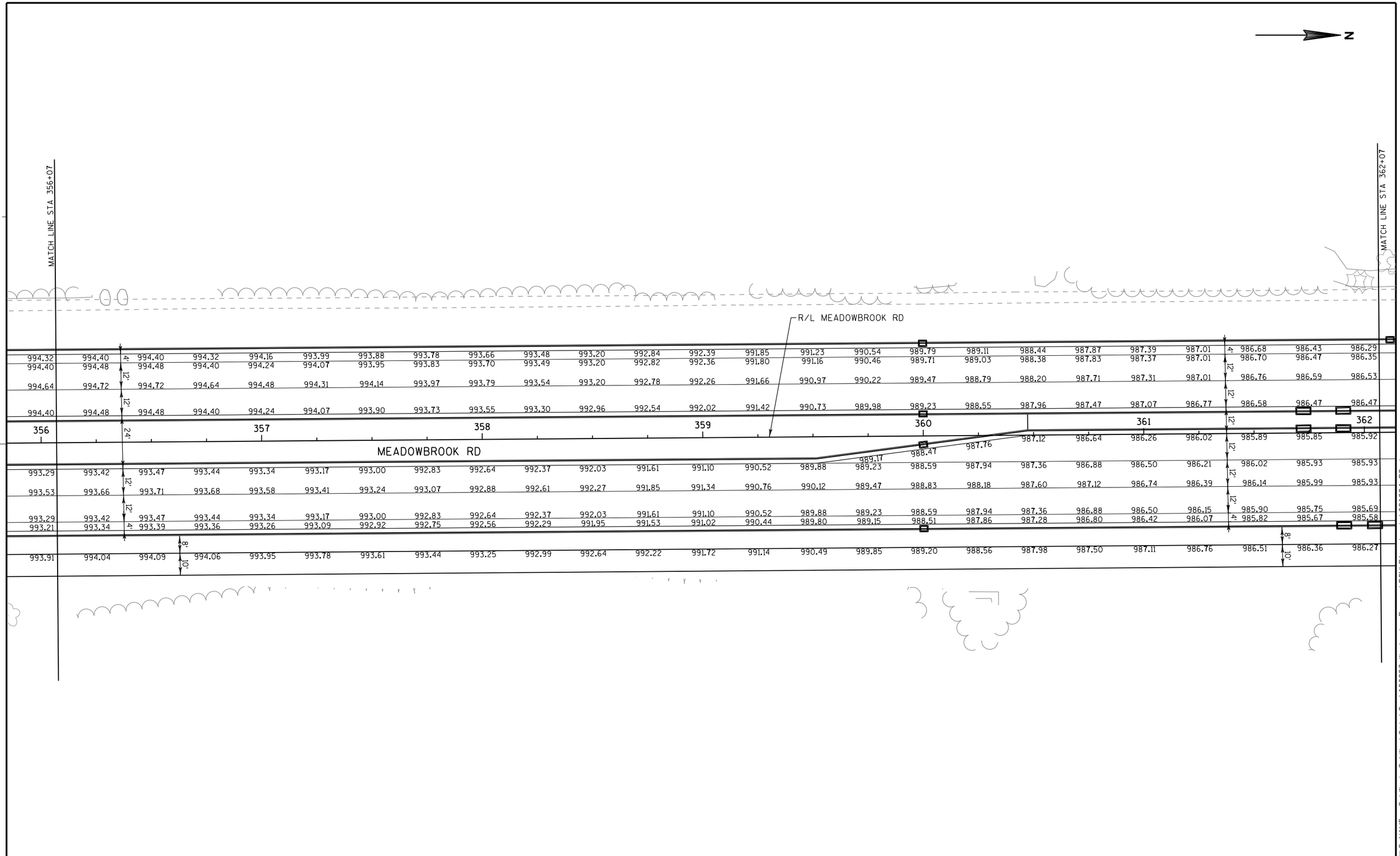
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PAVING GRADES	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 29 E PROJECT NO:



FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021224_PG.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PAVING GRADES	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 30 E PROJECT NO:

NOTES:

1) SEE CURB RAMP DETAILS FOR ADDITIONAL DIMENSIONS, CALLOUTS AND GRADES.
2) MATCH POINT ELEVATIONS TO BE FIELD VERIFIED
3) CURB RADIUS ELEVATIONS GIVEN AT BEGIN, MIDDLE, AND END OF CURVE

N

R/L WOODRIDGE LN

WOODRIDGE LN

BEGIN CONSTRUCTION
STA 48+90.00

MATCH LINE STA 362+07

MATCH LINE STA 368+07

R/L MEADOWBROOK RD

MEADOWBROOK RD

R/L WOODRIDGE LN

END CONSTRUCTION
STA 51+40.00

362	363	364	365	366	367	368
985.92	986.08	986.33	986.69	987.14	987.59	987.69
985.93	986.04	986.24	986.54	986.93	987.43	988.02
985.93	985.98	986.12	986.36	986.69	987.19	987.78
985.69	985.74	985.88	986.12	986.45	986.95	987.54
985.58	985.63	985.74	985.93	986.21	986.55	986.70
986.27	986.31	986.31	986.43	986.72	986.67	

362	363	364	365	366	367	368
986.29	986.24	986.37	986.60	986.93	987.13	
986.35	986.32	986.45	986.68	987.01	987.43	988.01
986.53	986.56	986.69	986.92	987.25	987.67	988.25
986.47	986.56	986.75	987.04	987.43	987.91	988.49

362	363	364	365	366	367	368
		988.71	989.49	990.38	991.36	992.44	993.58	994.73	995.88	997.02	998.11	999.11	1000.05	1000.91	1001.70	1002.42	1003.07	1003.64	1004.14
		988.47	989.25	990.14	991.12	992.20	993.34	994.49	995.64	996.78	997.87	998.87	999.81	1000.67	1001.46	1002.18	1002.83	1003.40	1003.90
		988.23	989.01	989.90	990.88	991.96	993.10	994.25	995.40	996.54	997.63	998.63	999.57	1000.43	1001.22	1001.94	1002.59	1003.16	1003.66
		988.02	989.02	989.82	990.80	991.88	993.02	994.17	995.32	996.46	997.55	998.55	999.49	1000.35	1001.14	1001.86	1002.51	1003.08	1003.58

362	363	364	365	366	367	368
		989.17	989.95	990.82	991.80	992.86	993.99	995.12	996.24	997.36	998.41	999.38	1000.29	1001.12	1001.89	1002.58	1003.20	1003.75	1004.23
		988.93	989.71	990.58	991.62	992.74	993.93	995.12	996.30	997.48	998.59	999.62	1000.53	1001.36	1002.13	1002.82	1003.44	1003.93	1004.35
		988.69	989.47	990.34	991.38	992.50	993.69	994.88	996.06	997.24	998.35	999.38	1000.29	1001.12	1001.89	1002.58	1003.20	1003.69	1004.11
		988.16	988.62	989.13	989.28	990.17	991.22	992.39	993.61	994.80	995.98	997.16	998.27	999.30	1000.21	1001.04	1001.81	1002.50	1003.12	1003.61	1004.03
		988.07	988.08	988.25	988.55	989.13	989.28	990.17	991.22	992.39	993.61	994.80	995.98	997.16	998.27	999.30	1000.21	1001.04	1001.81	1002.50	1003.12	1003.61	1004.03

362	363	364	365	366	367	368
		989.62	990.58	991.56	992.62	993.75	994.88	996.00	997.12	998.17	999.15	1000.12	1001.02	1001.84	1002.58	1003.20	1003.75	1004.23
		989.52	990.38	991.36	992.44	993.58	994.73	995.88	997.02	998.11	999.11	999.99	1000.79	1001.52	1002.18	1002.83	1003.40	1003.90
		989.49	990.38	991.36	992.44	993.58	994.73	995.88	997.02	998.11	999.11	1000.05	1000.91	1001.70	1002.42	1003.07	1003.64	1004.14
		989.25	990.14	991.12	992.20	993.34	994.49	995.64	996.78	997.87	998.87	999.81	1000.67	1001.46	1002.18	1002.83	1003.40	1003.90
		989.01	989.90	990.88	991.96	993.10	994.25	995.40	996.54	997.63	998.63	999.57	1000.43	1001.22	1001.94	1002.59	1003.16	1003.66
		989.02	989.82	990.80	991.88	993.02	994.17	995.32	996.46	997.55	998.55	999.49	1000.35	1001.14	1001.86	1002.51	1003.08	1003.58

362	363	364	365	366	367	368
		988.20	989.02	989.82	990.80	991.88	993.02	994.17	995.32	996.46	997.55	998.55	999.49	1000.35	1001.14	1001.86	1002.51	1003.08	1003.58
		987.53	987.53	986.27	985.90	986.50	985.98												

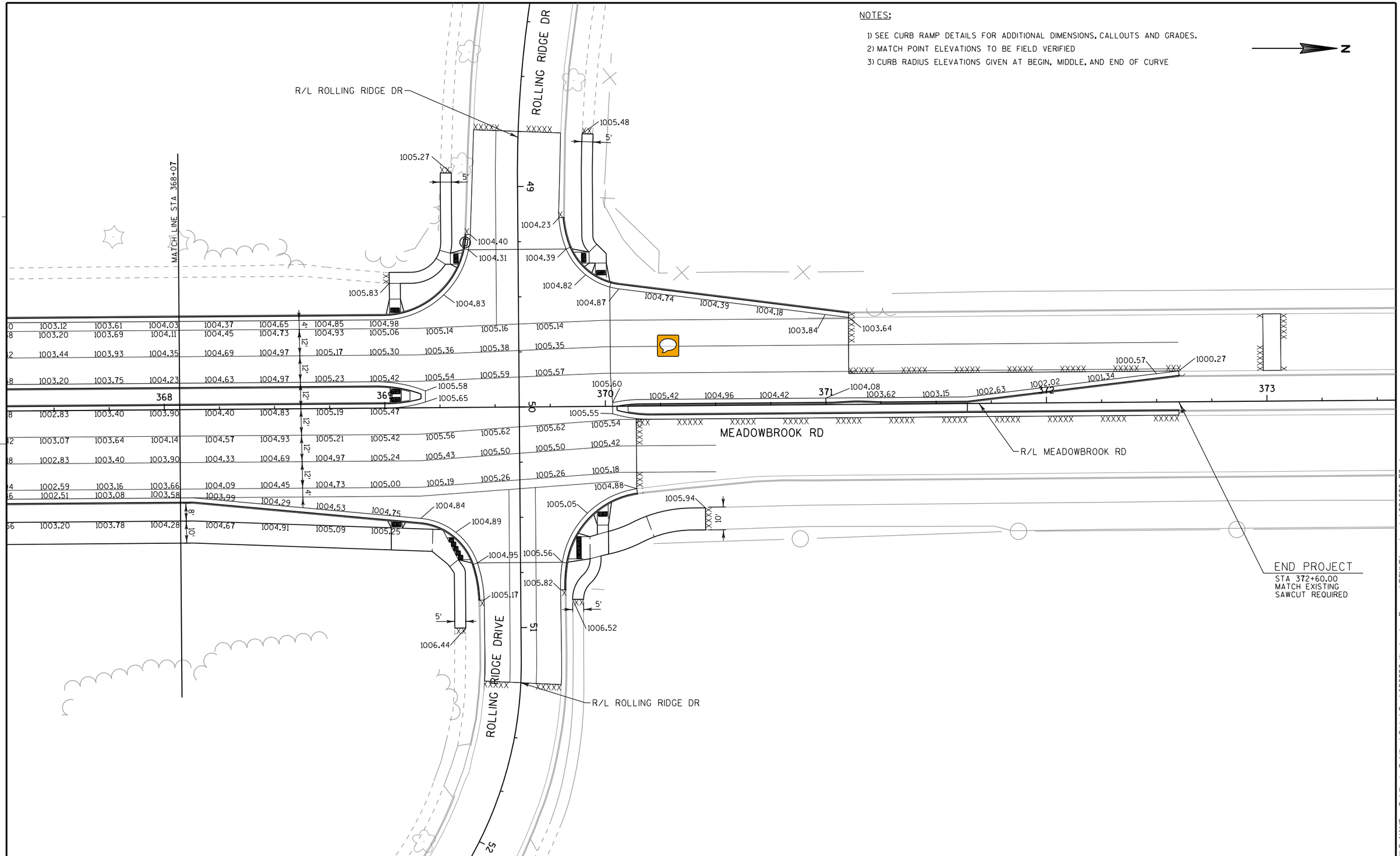
362	363	364	365	366	367	368
		991.49	992.57	993.72	994.87	996.02	997.16	998.24	999.25	1000.19	1001.05	1001.84	1002.56	1003.20	1003.78	1004.28			

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PAVING GRADES	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 31 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021225_PG.dgn

NOTES:

1) SEE CURB RAMP DETAILS FOR ADDITIONAL DIMENSIONS, CALLOUTS AND GRADES.
2) MATCH POINT ELEVATIONS TO BE FIELD VERIFIED
3) CURB RADIUS ELEVATIONS GIVEN AT BEGIN, MIDDLE, AND END OF CURVE



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PAVING GRADES	APPROVED: DATE: APPROVED: DATE:	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 32 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021226_PG.dgn

NOTE:

MATCH POINT ELEVATIONS
TO BE FIELD VERIFIED

STA 348+10.78
-83.15
EL=976.49

5'

MATCH EXISTING

R=30'

STA 348+02.67
-65.00
EL=976.94

STA 348+00.92
-67.07
EL=976.98

STA 347+95.76
-63.56
EL=977.05

STA 347+97.67
-60.00
EL=977.05

STA 348+09.48
-65.00
EL=976.46

STA 348+15.48
-65.00
EL=976.04

STA 348+16.57
-65.00
EL=976.02

STA 348+18.56
-64.91
EL=976.10

CURB RAMP TYPE 2 MODIFIED

STA 348+16.00
-60.00
EL=976.11

STA 348+17.95
-59.56
EL=976.19

STA 348+15.48
-60.00
EL=976.12

STA 348+09.48
-60.00
EL=976.54

1.5%

STA 347+81.58
-60.00

STA 348+02.67
-60.00
EL=977.02

STA 348+02.67
-50.43
EL=977.16

STA 347+97.67
-50.43
EL=977.25

STA 347+97.67
-44.43
EL=977.19

STA 348+02.67
-44.43
EL=977.10

STA 348+02.67
-43.88
EL=977.09

STA 348+03.46
-42.05
EL=977.17

CURB RAMP TYPE 2 MODIFIED

STA 347+97.67
-42.37
EL=977.17

STA 347+98.03
-40.40
EL=977.25

STA 347+50.00
-60.00
EL=978.84

STA 347+60.00
-60.00
EL=978.74

JOANNE DR

N

STA 348+67.05
-75.61
EL=976.57

MATCH EXISTING

STA 348+74.58
-68.32
EL=976.47

R=15'

STA 348+70.85
-65.00
EL=976.40

STA 348+70.90
-60.00
EL=976.40

STA 348+64.40
-65.00
EL=976.05

STA 348+78.26
-65.72
EL=976.55

STA 348+75.91
-59.97
EL=976.46

STA 348+61.50
-65.00
EL=976.01

MATCH EXISTING

5'

STA 348+59.58
-64.45
EL=976.09

STA 348+82.04
-59.98
EL=976.55

CURB RAMP TYPE 2 MODIFIED

STA 348+62.12
-58.89
EL=976.12

STA 348+75.67
-54.21
EL=976.14

STA 348+63.79
-60.00
EL=976.04

STA 348+64.40
-60.00
EL=976.05

STA 348+75.58
-52.19
EL=976.11

STA 348+70.67
-54.42
EL=976.09

STA 348+69.74
-52.08
EL=976.16

STA 348+75.22
-50.23
EL=976.19

STA 348+70.65
-53.86
EL=976.08

CURB RAMP TYPE 2 MODIFIED

R/L JOANNE DR

R/L MEADOWBROOK RD

348

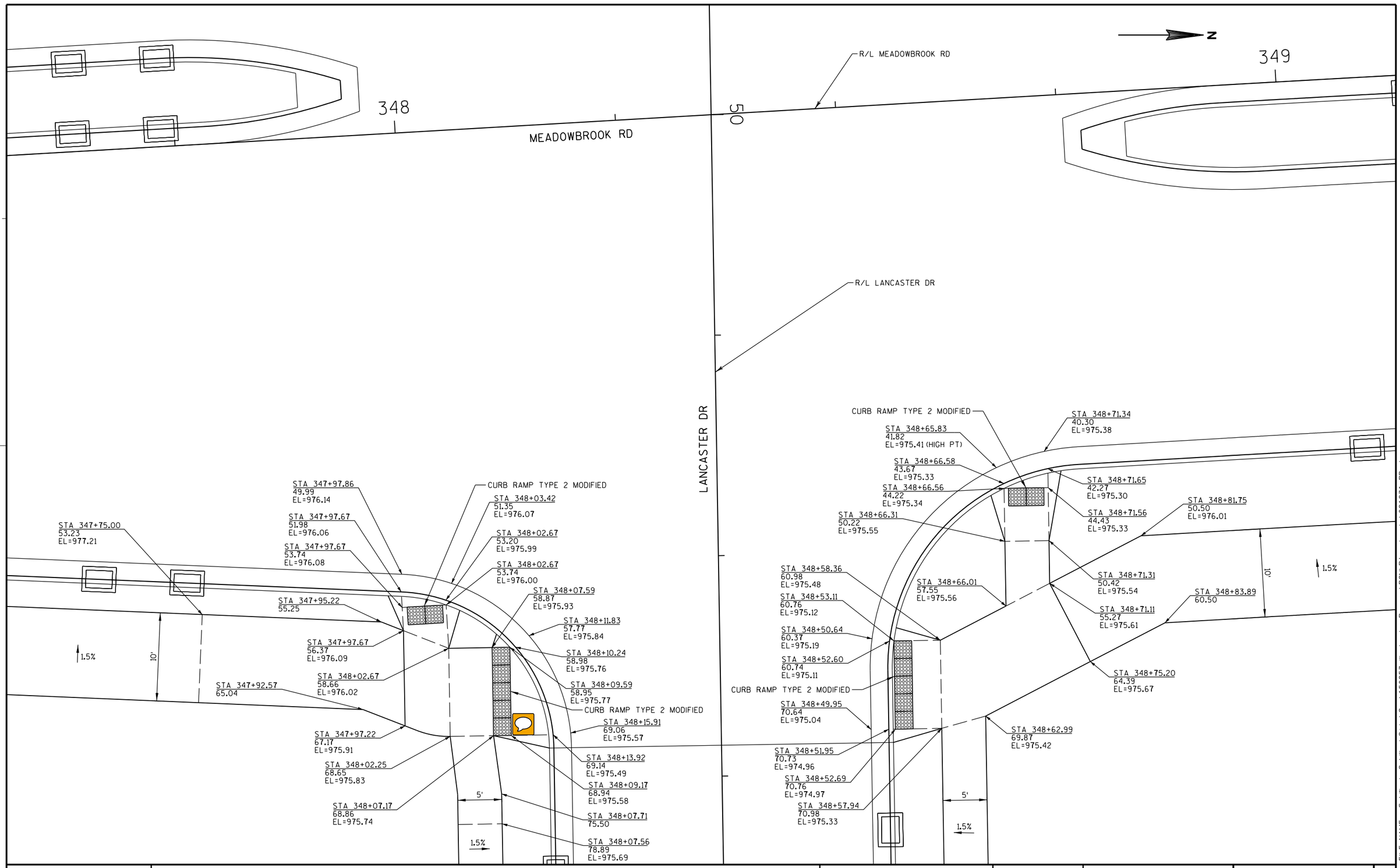
MEADOWBROOK RD

50

349

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CURB RAMP DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:10 PLOT DATE : 10/21/2016	SHEET NO. 33 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021230_PD.dgn



CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
CURB RAMP DETAILS

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:10
PLOT DATE : 10/21/2016

SHEET NO. **34** **E**
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021231_PD.dgn

STA 363+29.52
-75.00
EL=988.07

STA 363+25.70
-65.00
EL=987.98

STA 363+28.46
-65.00
EL=987.85

STA 363+34.46
-65.00
EL=987.37

STA 363+35.52
-65.00
EL=987.35

STA 363+37.52
-65.00
EL=987.43

R=15'

1.5%

5'

CURB RAMP TYPE 2 MODIFIED

STA 363+34.97
-60.00
EL=987.33

STA 363+36.92
-59.56
EL=987.41

STA 363+34.46
-60.00
EL=987.34

STA 363+28.46
-60.00
EL=987.82

STA 363+24.33
-60.00
EL=987.90

STA 363+24.33
-51.84
EL=987.66

STA 363+19.33
-60.00
EL=987.92

STA 363+19.33
-51.84
EL=987.63

STA 363+19.33
-45.84
EL=987.21

STA 363+19.33
-43.02
EL=987.17

STA 363+24.33
-45.84
EL=987.24

STA 363+24.33
-45.26
EL=987.23

STA 363+25.35
-43.54
EL=987.31

STA 363+19.92
-41.11
EL=987.25

CURB RAMP TYPE 2 MODIFIED

R/L WOODRIDGE LN

WOODRIDGE LN

STA 363+89.34
-65.00
EL=988.71

STA 363+83.09
-65.00
EL=988.79

STA 363+80.20
-65.00
EL=988.26

STA 363+78.28
-64.45
EL=988.34

CURB RAMP TYPE 2 MODIFIED

STA 363+80.82
-58.90
EL=988.44

STA 363+82.49
-60.00
EL=988.36

STA 363+83.09
-60.00
EL=988.79

STA 363+90.84
-56.72
EL=988.85

STA 363+90.84
-53.72
EL=988.84

STA 363+90.84
-53.18
EL=988.83

STA 363+90.10
-51.32
EL=988.91

STA 363+85.52
-74.99
EL=988.71

R=15'

STA 363+89.34
-60.00
EL=988.76

STA 363+90.84
-60.00
EL=988.78

1.5%

STA 363+95.84
-60.00
EL=988.87

STA 363+95.84
-56.72
EL=989.08

STA 363+95.84
-53.72
EL=989.07

STA 363+95.84
-51.97
EL=989.06

STA 363+95.64
-49.98
EL=989.14

CURB RAMP TYPE 2 MODIFIED

NOTE:

MATCH POINT ELEVATIONS
TO BE FIELD VERIFIED

N

LEVEL LANDING

MATCH EXISTING

LEVEL LANDING

STA 364+30.00
-60.00
EL=991.01

STA 364+25.00
-60.00
EL=990.93

STA 364+55.00
-60.00
EL=992.78

STA 364+60.00
-60.00
EL=992.86

R/L MEADOWBROOK RD

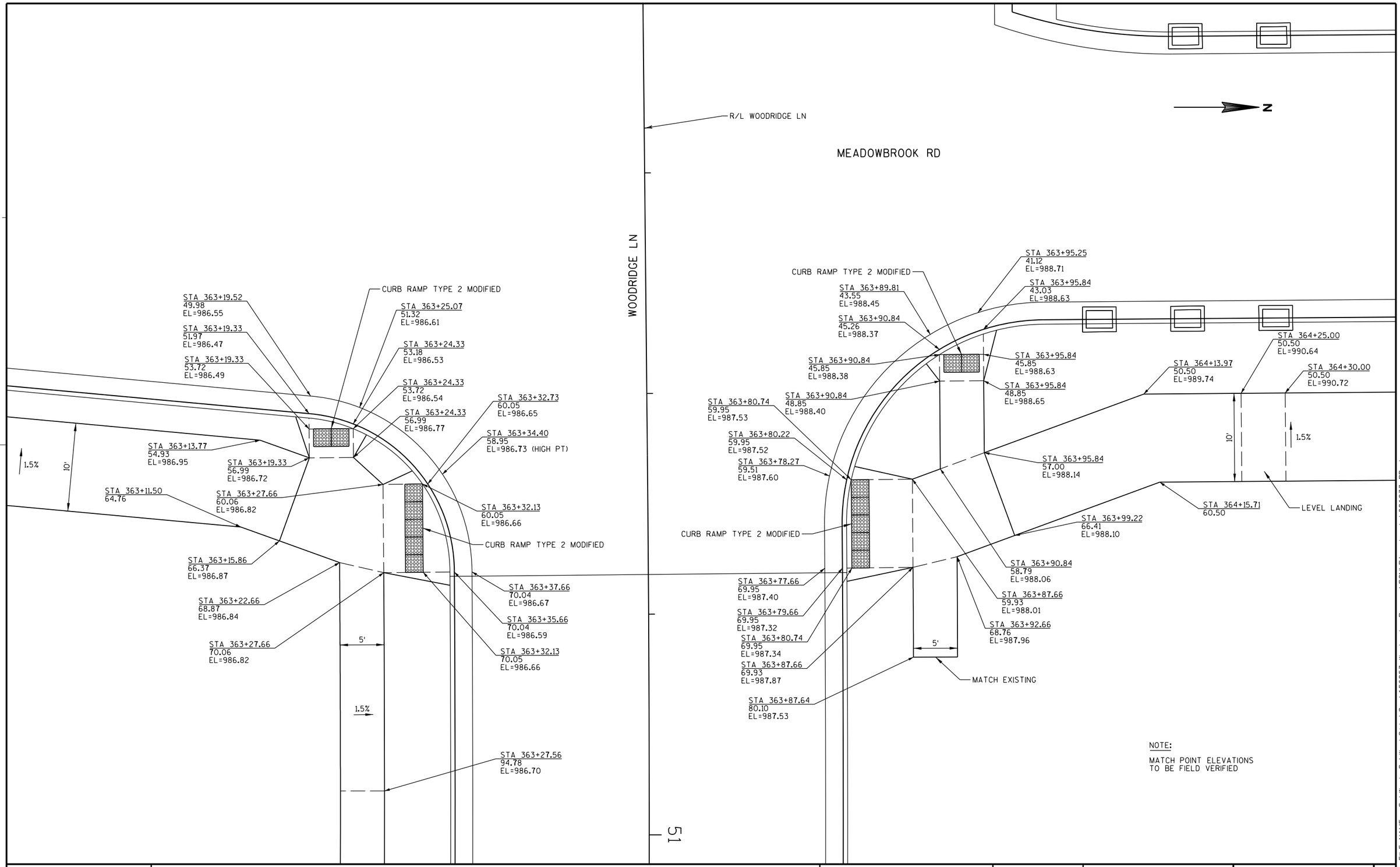
MEADOWBROOK RD

364

05

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021232_PD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CURB RAMP DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:10 PLOT DATE : 10/21/2016	SHEET NO. **35** **E** PROJECT NO:



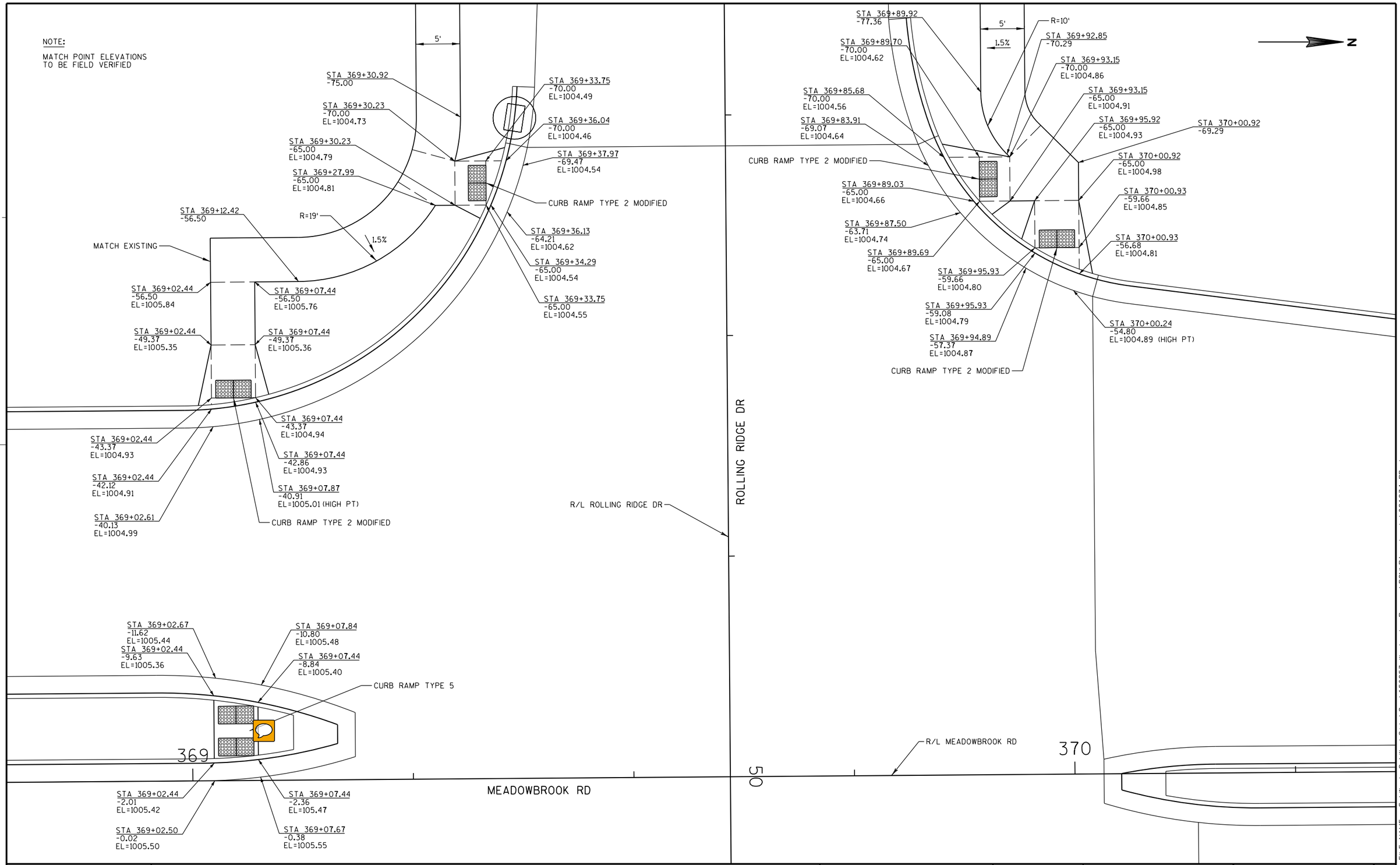
51

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021233_PD.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CURB RAMP DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:10 PLOT DATE : 10/21/2016	SHEET NO. **36** **E** PROJECT NO:

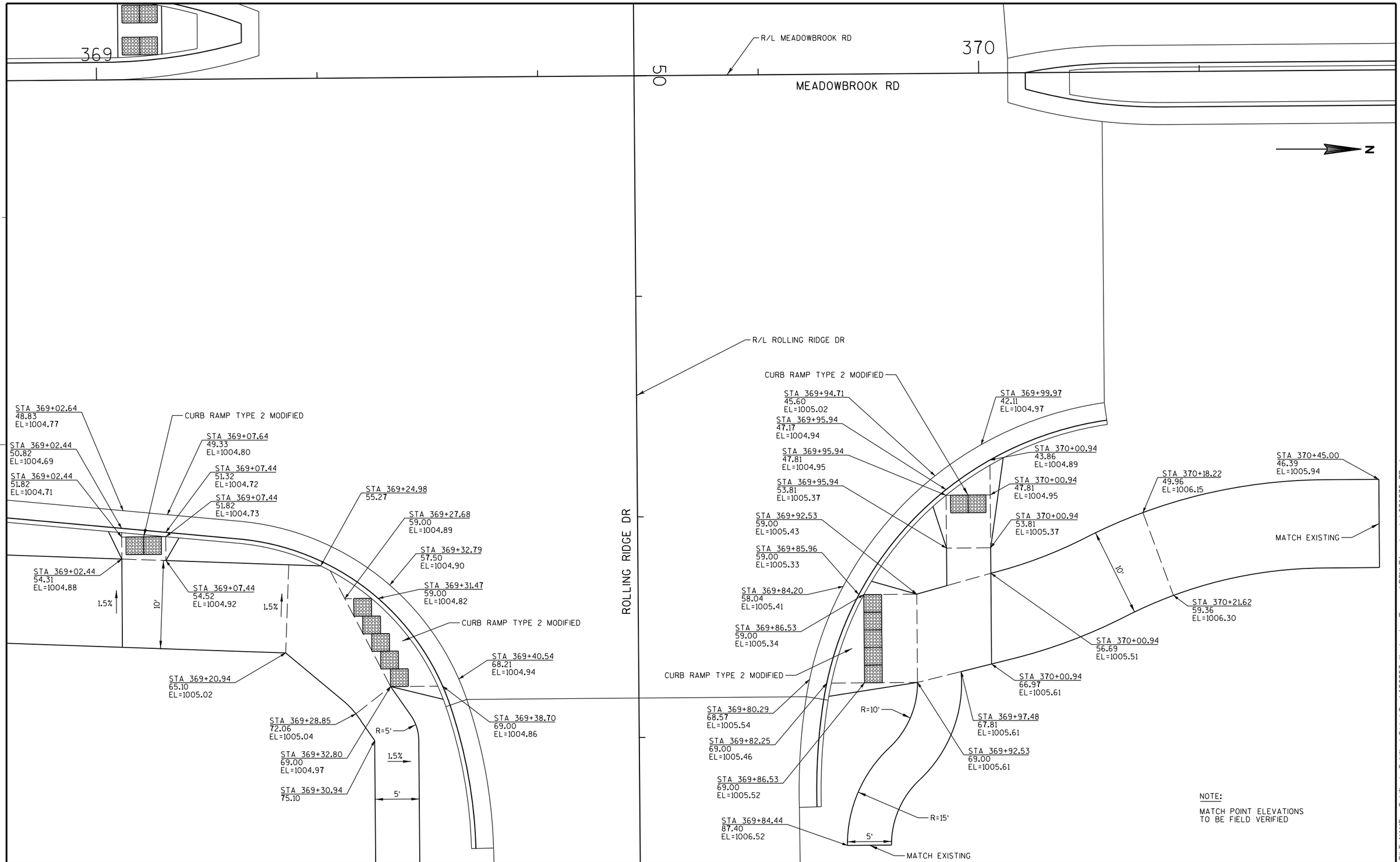
NOTE:

MATCH POINT ELEVATIONS
TO BE FIELD VERIFIED



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CURB RAMP DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:10 PLOT DATE : 10/21/2016	SHEET NO. 37 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021234_PD.dgn



CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
CURB RAMP DETAILS

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:10
PLOT DATE : 10/21/2016

SHEET NO. 38 E
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\021235_PD.dgn

LEGEND

- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

JOANNE DR

R/L JOANNE DR

R/L MEADOWBROOK RD

MEADOWBROOK RD

342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357

BEGIN PROJECT
STA 342+31.74

LANCASTER DR

R/L LANCASTER DR

WOODRIDGE LN

R/L MEADOWBROOK RD

ROLLING RIDGE DR

357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372

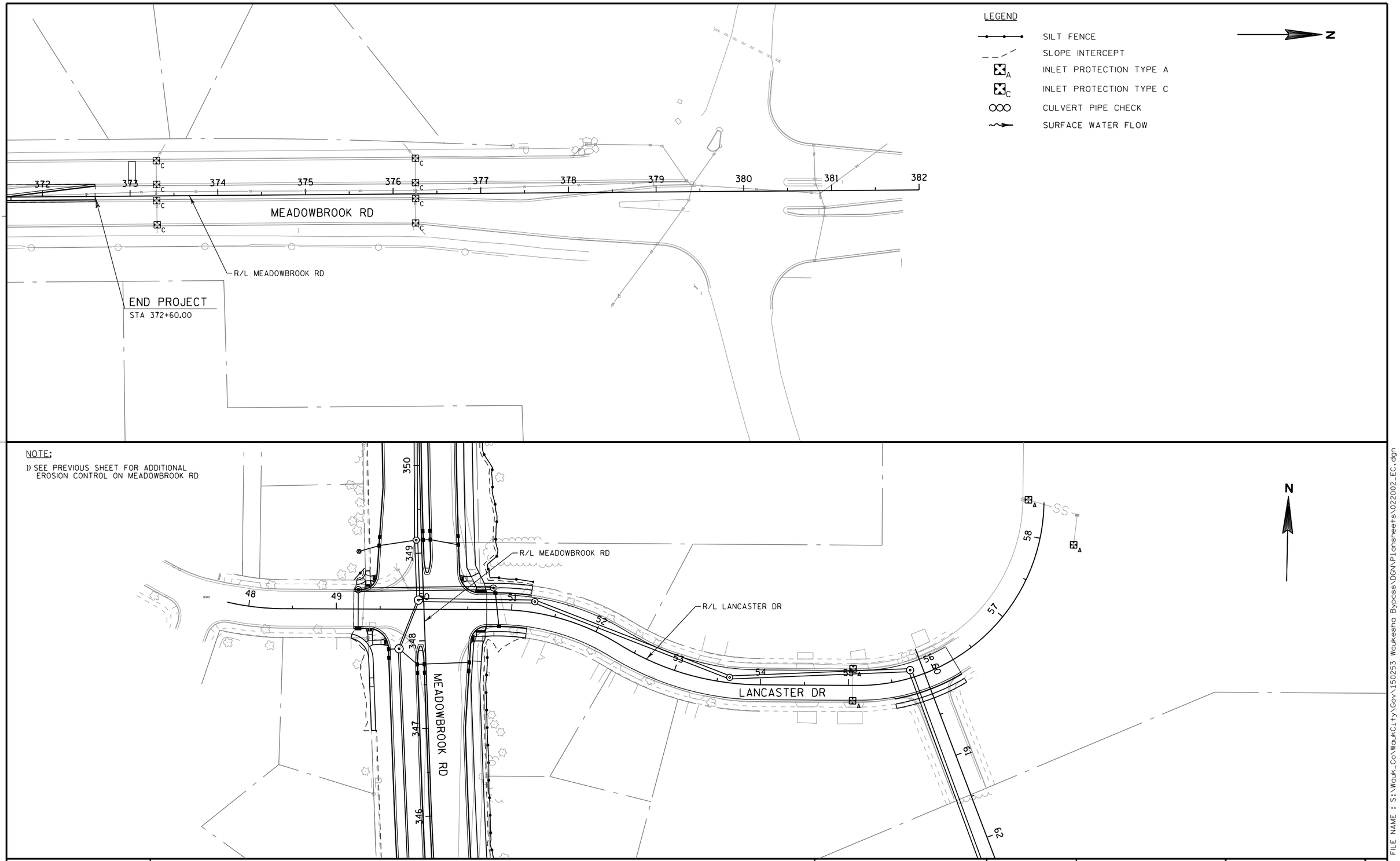
R/L WOODRIDGE LN

R/L ROLLING RIDGE DR

AT NEXT DOWNSTREAM INLET

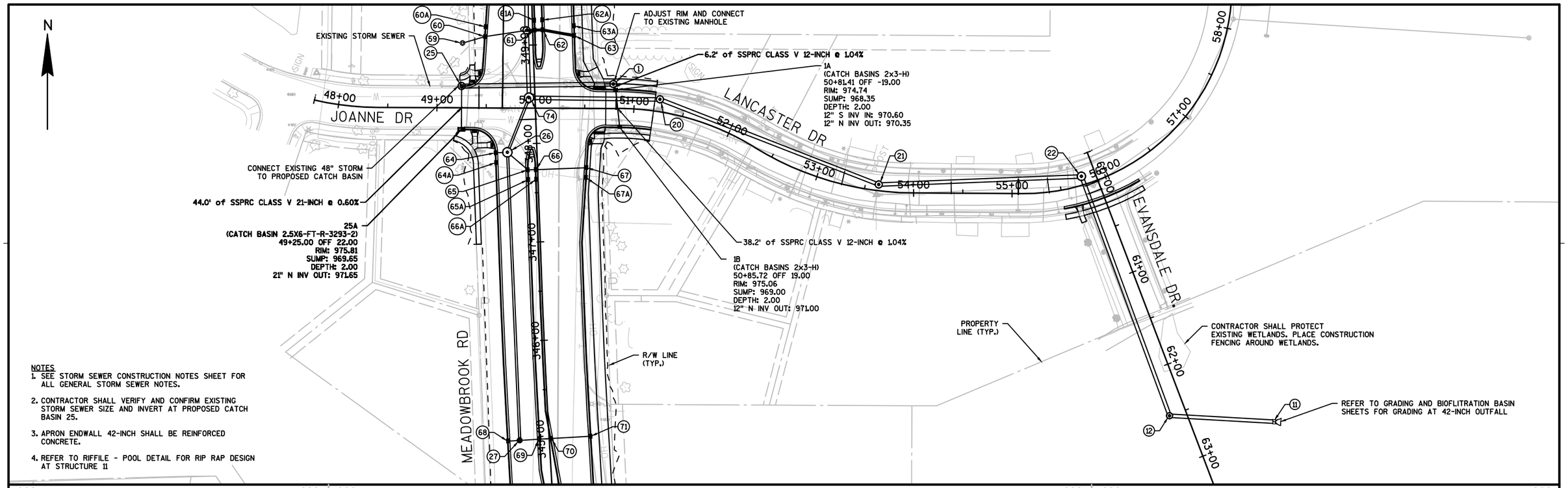
FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\022001_EC.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD EROSION CONTROL	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. 39 E PROJECT NO:

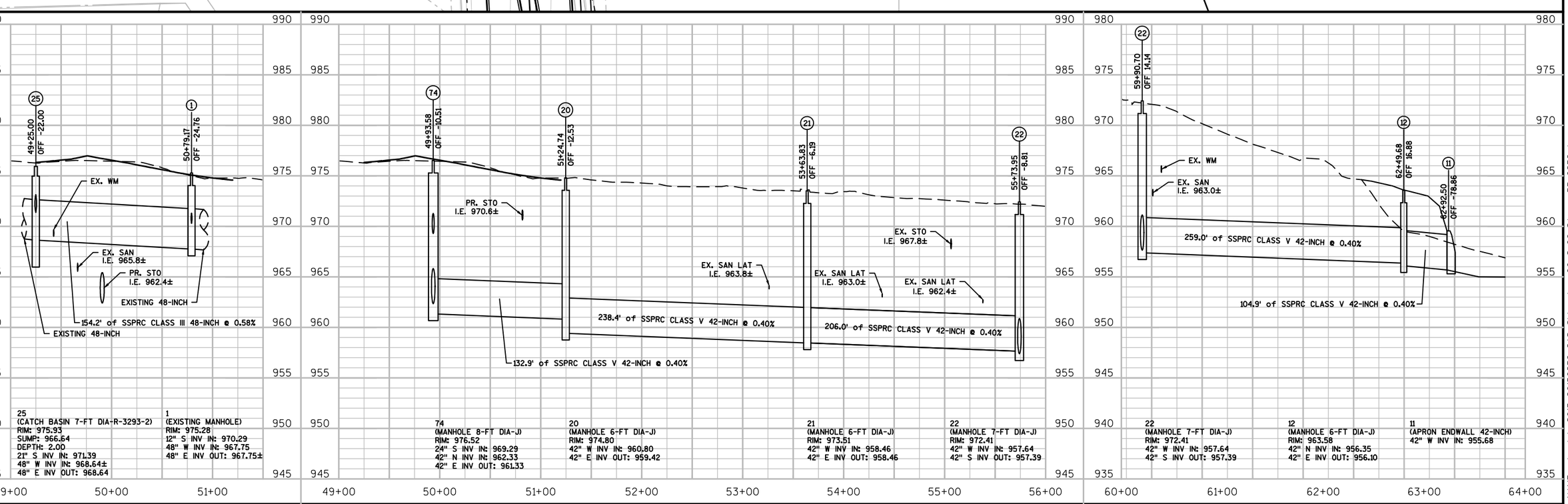


CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD EROSION CONTROL	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **40** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\022002_EC.dgn



NOTES
1. SEE STORM SEWER CONSTRUCTION NOTES SHEET FOR ALL GENERAL STORM SEWER NOTES.
2. CONTRACTOR SHALL VERIFY AND CONFIRM EXISTING STORM SEWER SIZE AND INVERT AT PROPOSED CATCH BASIN 25.
3. APRON ENDWALL 42-INCH SHALL BE REINFORCED CONCRETE.
4. REFER TO RIFFILE - POOL DETAIL FOR RIP RAP DESIGN AT STRUCTURE 11



25
(CATCH BASIN 7-FT DIA-R-3293-2)
RIM: 975.93
SUMP: 966.64
DEPTH: 2.00
21" S INV IN: 971.39
48" W INV IN: 968.64±
48" E INV OUT: 968.64

1
(EXISTING MANHOLE)
RIM: 975.28
12" S INV IN: 970.29
48" W INV IN: 967.75
48" E INV OUT: 967.75±

74
(MANHOLE 8-FT DIA-J)
RIM: 976.52
24" S INV IN: 969.29
42" N INV IN: 962.33
42" E INV OUT: 961.33

20
(MANHOLE 6-FT DIA-J)
RIM: 974.80
42" W INV IN: 960.80
42" E INV OUT: 959.42

21
(MANHOLE 6-FT DIA-J)
RIM: 973.51
42" W INV IN: 958.46
42" E INV OUT: 958.46

22
(MANHOLE 7-FT DIA-J)
RIM: 972.41
42" W INV IN: 957.64
42" S INV OUT: 957.39

22
(MANHOLE 7-FT DIA-J)
RIM: 972.41
42" W INV IN: 957.64
42" S INV OUT: 957.39

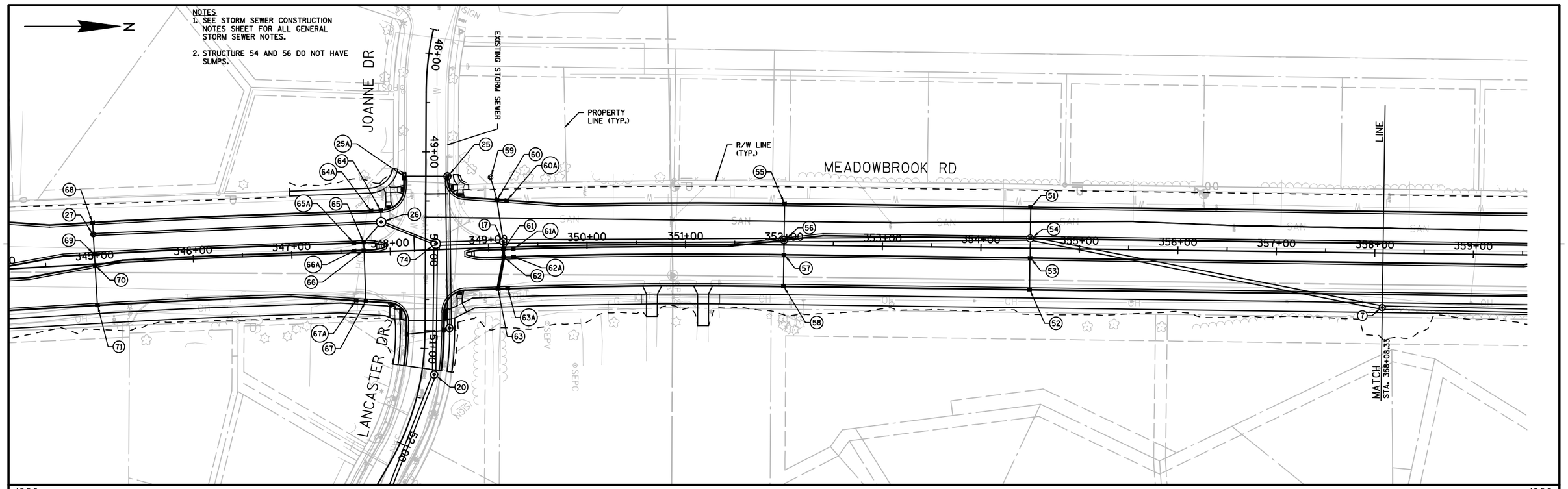
12
(MANHOLE 6-FT DIA-J)
RIM: 963.58
42" N INV IN: 956.35
42" E INV OUT: 956.10

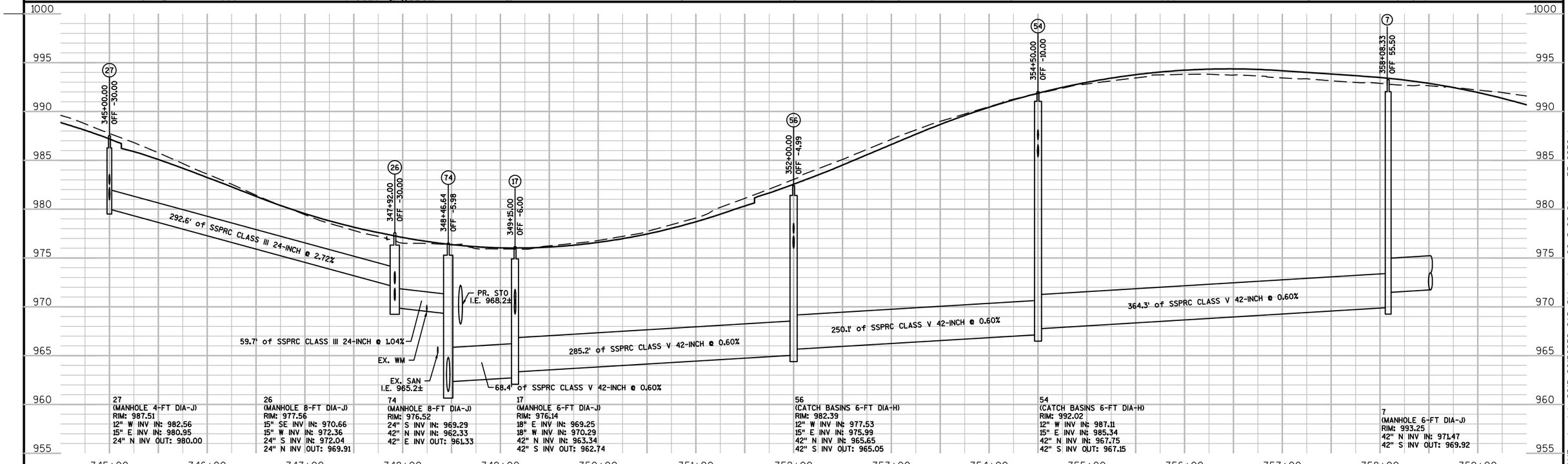
11
(APRON ENDWALL 42-INCH)
42" W INV IN: 955.68

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	LANCASTER DRIVE STORM SEWER	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: TRY CHECKED BY: _____	PLOT SCALE : 1 IN : 100 FT PLOT DATE : 7/27/2016 11:13 AM	SHEET NO. 41 E PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015O236\CAD\Site\dwg\00\C-00-Storm-PP-0236.dwg

NOTES
1. SEE STORM SEWER CONSTRUCTION NOTES SHEET FOR ALL GENERAL STORM SEWER NOTES.
2. STRUCTURE 54 AND 56 DO NOT HAVE SUMPS.





27
(MANHOLE 4-FT DIA-J)
RIM: 987.51
12" W INV IN: 982.56
15" E INV IN: 980.95
24" N INV OUT: 980.00

26
(MANHOLE 8-FT DIA-J)
RIM: 977.56
15" SE INV IN: 970.66
15" W INV IN: 972.36
24" S INV IN: 972.04
24" N INV OUT: 969.91

74
(MANHOLE 8-FT DIA-J)
RIM: 976.52
24" S INV IN: 969.29
42" N INV IN: 962.33
42" E INV OUT: 961.33

17
(MANHOLE 6-FT DIA-J)
RIM: 976.14
18" E INV IN: 969.25
18" W INV IN: 970.29
42" N INV IN: 963.34
42" S INV OUT: 962.74

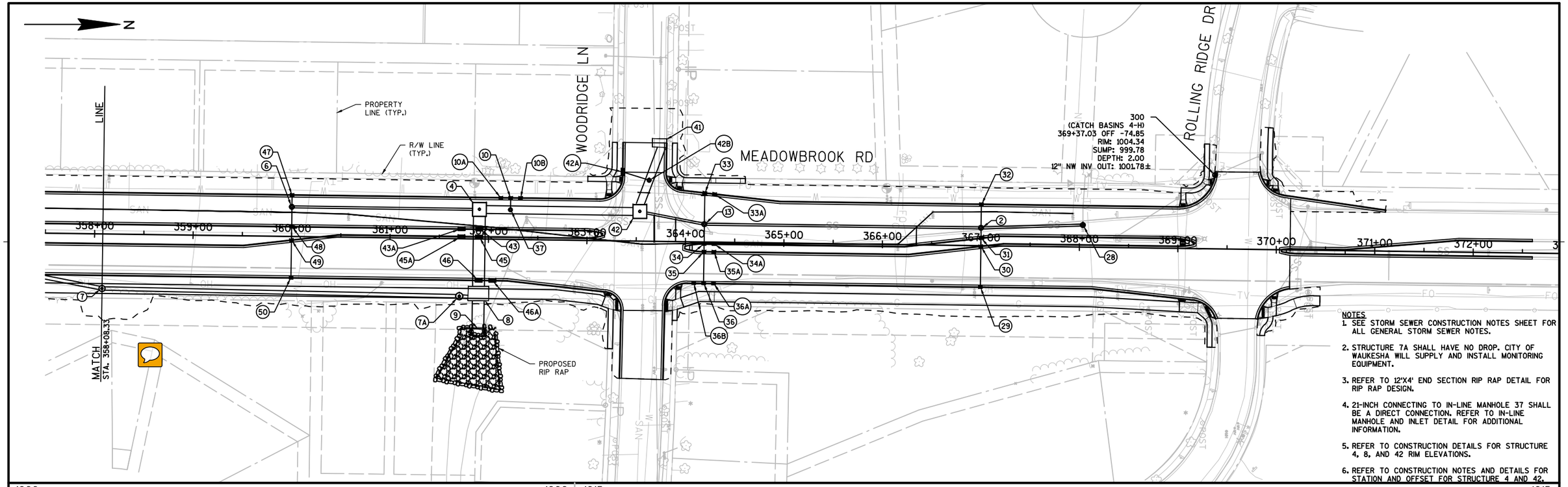
56
(CATCH BASINS 6-FT DIA-H)
RIM: 982.39
12" W INV IN: 977.53
15" E INV IN: 975.99
42" N INV IN: 965.65
42" S INV OUT: 965.05

54
(CATCH BASINS 6-FT DIA-H)
RIM: 992.02
12" W INV IN: 987.11
15" E INV IN: 985.34
42" N INV IN: 967.75
42" S INV OUT: 967.15

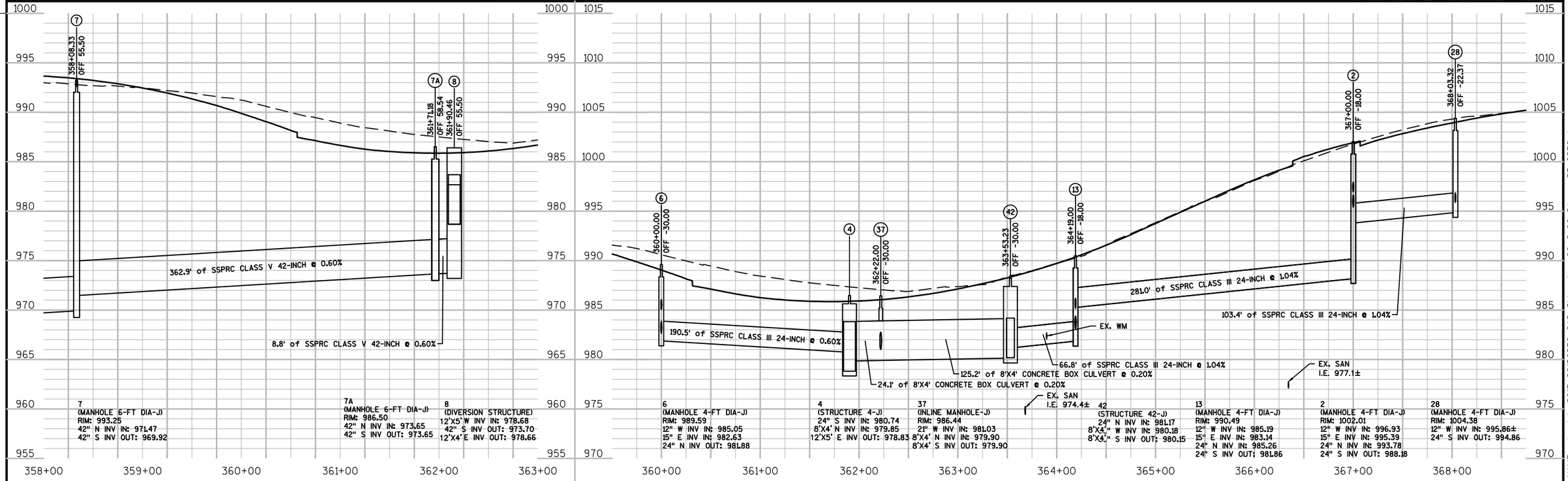
7
(MANHOLE 6-FT DIA-J)
RIM: 993.25
42" N INV IN: 971.47
42" S INV OUT: 969.92

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD STORM SEWER	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: TRY CHECKED BY: _____	PLOT SCALE : 1 IN : 100 FT PLOT DATE : 7/27/2016 11:13 AM	SHEET NO. 42 E PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\20150236\CAD\Site\dwg\00\C-00-Storm-PP-0236.dwg

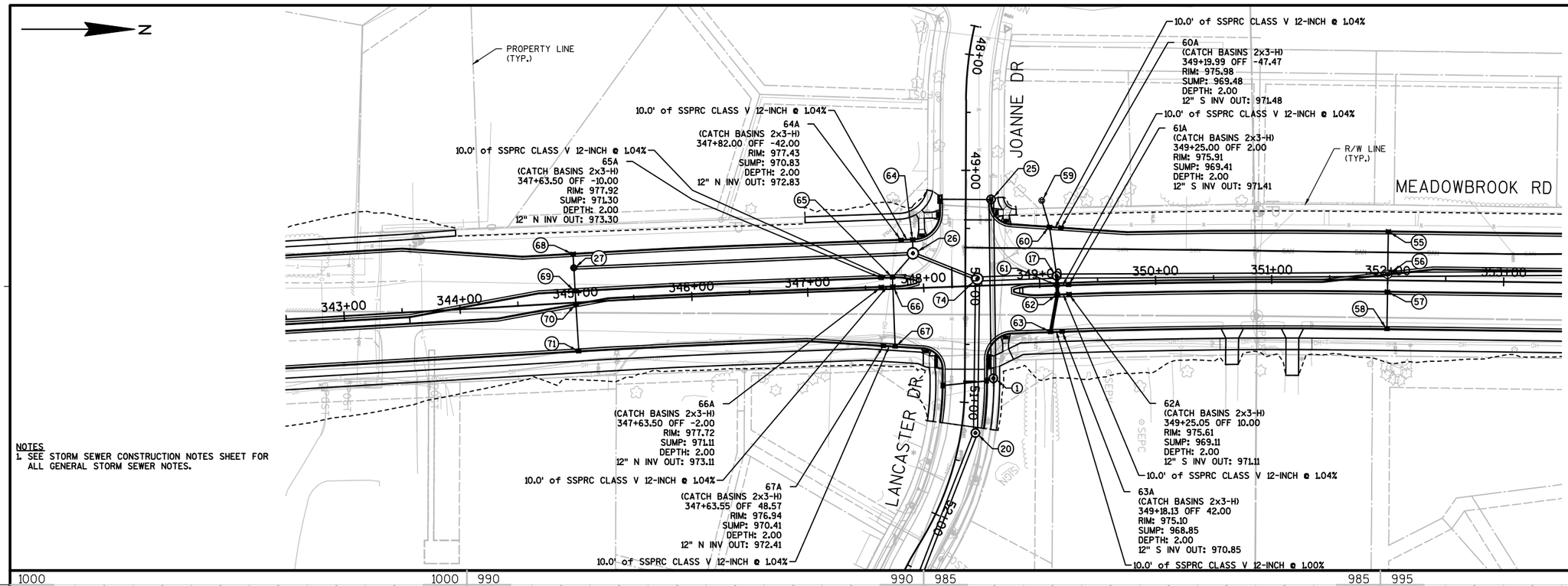


NOTES
1. SEE STORM SEWER CONSTRUCTION NOTES SHEET FOR ALL GENERAL STORM SEWER NOTES.
2. STRUCTURE 7A SHALL HAVE NO DROP. CITY OF WAUKESHA WILL SUPPLY AND INSTALL MONITORING EQUIPMENT.
3. REFER TO 12'X4' END SECTION RIP RAP DETAIL FOR RIP RAP DESIGN.
4. 21-INCH CONNECTING TO IN-LINE MANHOLE 37 SHALL BE A DIRECT CONNECTION. REFER TO IN-LINE MANHOLE AND INLET DETAIL FOR ADDITIONAL INFORMATION.
5. REFER TO CONSTRUCTION DETAILS FOR STRUCTURE 4, 8, AND 42 RIM ELEVATIONS.
6. REFER TO CONSTRUCTION NOTES AND DETAILS FOR STATION AND OFFSET FOR STRUCTURE 4 AND 42.

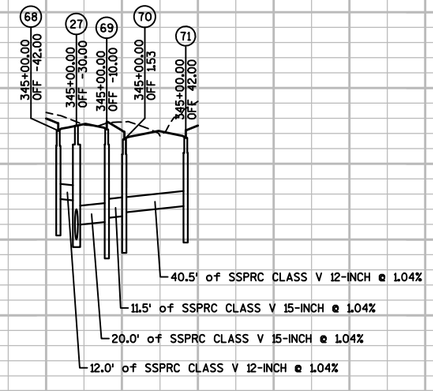


CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD STORM SEWER	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : 1 IN : 100 FT PLOT DATE : 7/27/2016 11:14 AM	SHEET NO. 43 E PROJECT NO: 2015-0236

FILE NAME : L:\Jobs\2015\20150236\CAD\Site\dwg\00\C-00-Storm-PP-0236.dwg



NOTES
1. SEE STORM SEWER CONSTRUCTION NOTES SHEET FOR ALL GENERAL STORM SEWER NOTES.



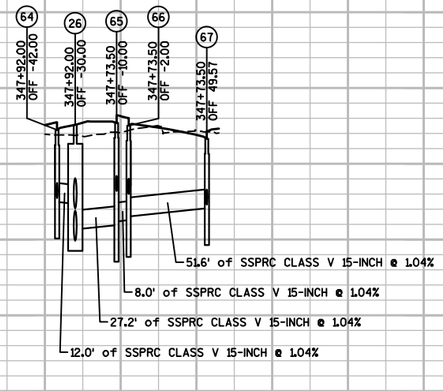
70 (CATCH BASINS 2x3-H) RIM: 986.62 SUMP: 979.54 DEPTH: 2.00 12" E INV IN: 981.79 15" W INV OUT: 981.54

71 (CATCH BASINS 2x3-H) RIM: 986.71 SUMP: 980.21 DEPTH: 2.00 12" W INV OUT: 982.21

68 (CATCH BASINS 2x3-H) RIM: 987.18 SUMP: 980.68 DEPTH: 2.00 12" E INV OUT: 982.68

27 (MANHOLE 4-FT DIA-J) RIM: 987.51 12" W INV IN: 982.56 15" E INV IN: 980.95 24" N INV OUT: 980.00

69 (CATCH BASINS 2x3-H) RIM: 987.26 SUMP: 979.16 DEPTH: 2.00 15" E INV IN: 981.42 15" W INV OUT: 981.16



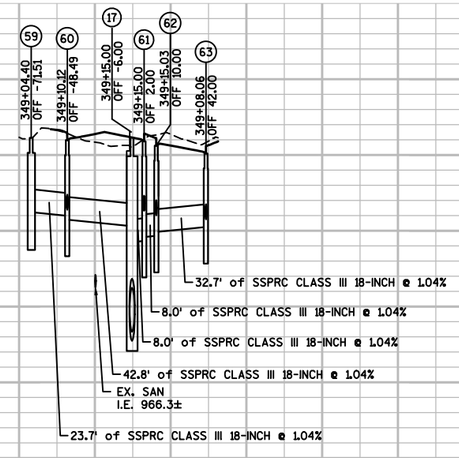
66 (CATCH BASINS 2x3-H) RIM: 977.51 SUMP: 969.27 DEPTH: 2.00 15" E INV IN: 971.52 12" S INV IN: 973.01 15" W INV OUT: 971.27

67 (CATCH BASINS 2x3-H) RIM: 976.65 SUMP: 970.06 DEPTH: 2.00 12" S INV IN: 972.31 15" W INV OUT: 972.06

64 (CATCH BASINS 2x3-H) RIM: 977.23 SUMP: 970.48 DEPTH: 2.00 12" S INV IN: 972.73 15" E INV OUT: 972.48

26 (MANHOLE 8-FT DIA-J) RIM: 977.56 15" SE INV IN: 970.66 15" W INV IN: 972.36 24" S INV IN: 972.04 24" N INV OUT: 969.91

65 (CATCH BASINS 2x3-H) RIM: 977.70 SUMP: 968.94 DEPTH: 2.00 15" E INV IN: 971.19 12" S INV IN: 973.20 15" NW INV OUT: 970.94



61 (CATCH BASINS 2x3-H) RIM: 975.90 SUMP: 967.33 DEPTH: 2.00 12" N INV IN: 971.31 18" E INV IN: 969.58 18" W INV OUT: 969.33

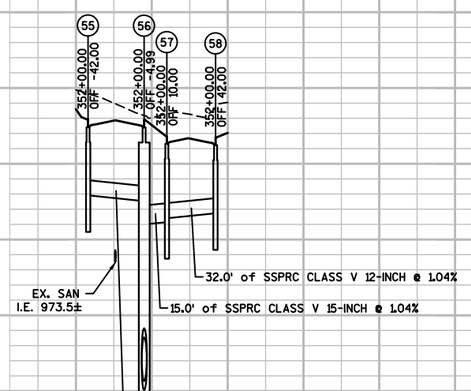
62 (CATCH BASINS 2x3-H) RIM: 975.62 SUMP: 967.66 DEPTH: 2.00 12" N INV IN: 971.01 18" E INV IN: 969.91 18" W INV OUT: 969.66

63 (CATCH BASINS 2x3-H) RIM: 975.09 SUMP: 968.25 DEPTH: 2.00 12" N INV IN: 970.75 18" W INV OUT: 970.25

59 (CATCH BASINS 4-FT DIA-S) RIM: 976.12 SUMP: 969.23 DEPTH: 2.00 18" E INV OUT: 971.23

60 (CATCH BASINS 2x3-H) RIM: 975.97 SUMP: 968.73 DEPTH: 2.00 12" N INV IN: 971.38 18" W INV IN: 970.98 18" E INV OUT: 970.73

17 (MANHOLE 6-FT DIA-J) RIM: 976.14 18" E INV IN: 969.25 18" W INV IN: 970.29 42" N INV IN: 963.34 42" S INV OUT: 962.74



58 (CATCH BASINS 2x3-H) RIM: 981.23 SUMP: 974.73 DEPTH: 2.00 12" W INV OUT: 976.73

55 (CATCH BASINS 2x3-H) RIM: 982.41 SUMP: 975.91 DEPTH: 2.00 12" E INV OUT: 977.91

56 (CATCH BASINS 6-FT DIA-H) RIM: 982.39 12" W INV IN: 977.53 15" E INV IN: 975.99 42" N INV IN: 965.65 42" S INV OUT: 965.05

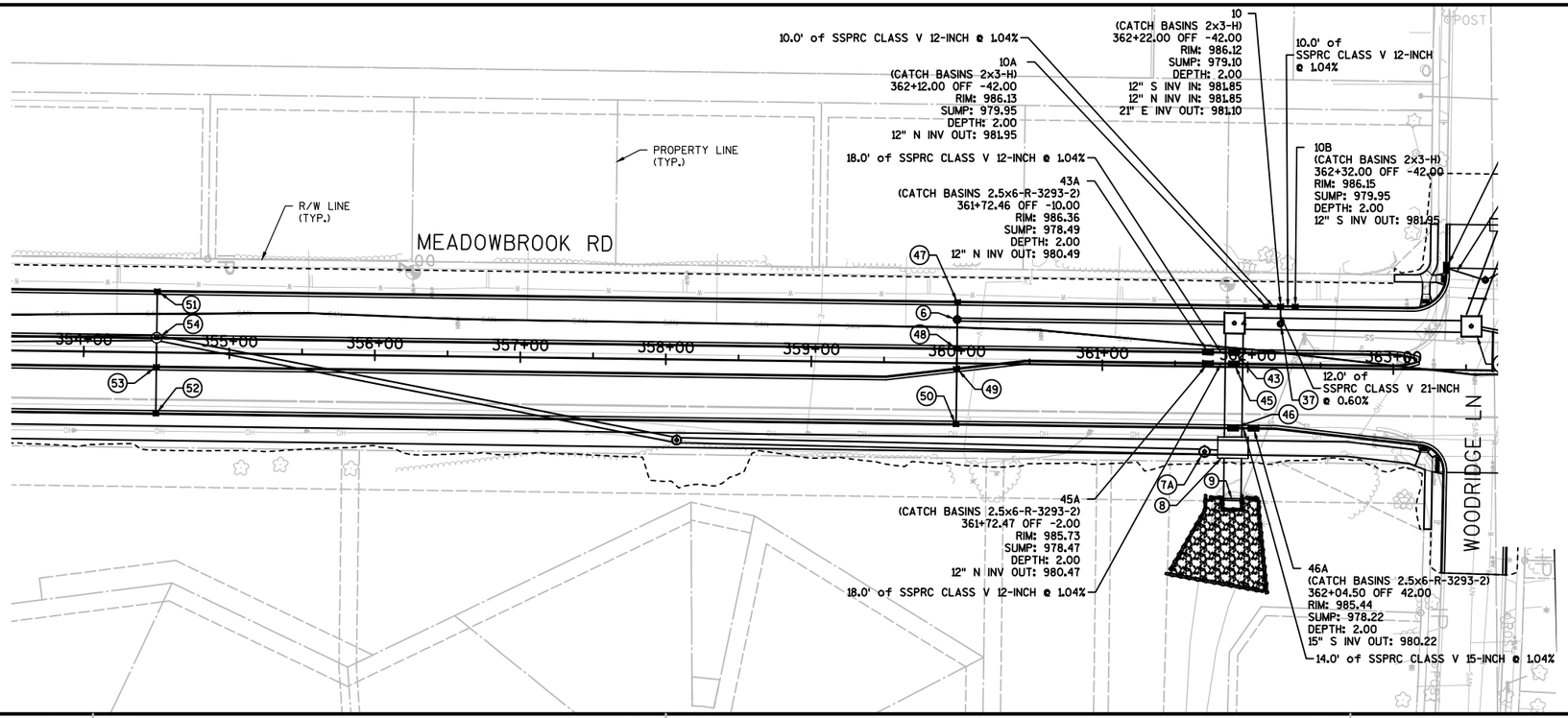
57 (CATCH BASINS 2x3-H) RIM: 981.31 SUMP: 974.15 DEPTH: 2.00 12" E INV IN: 976.40 15" W INV OUT: 976.15

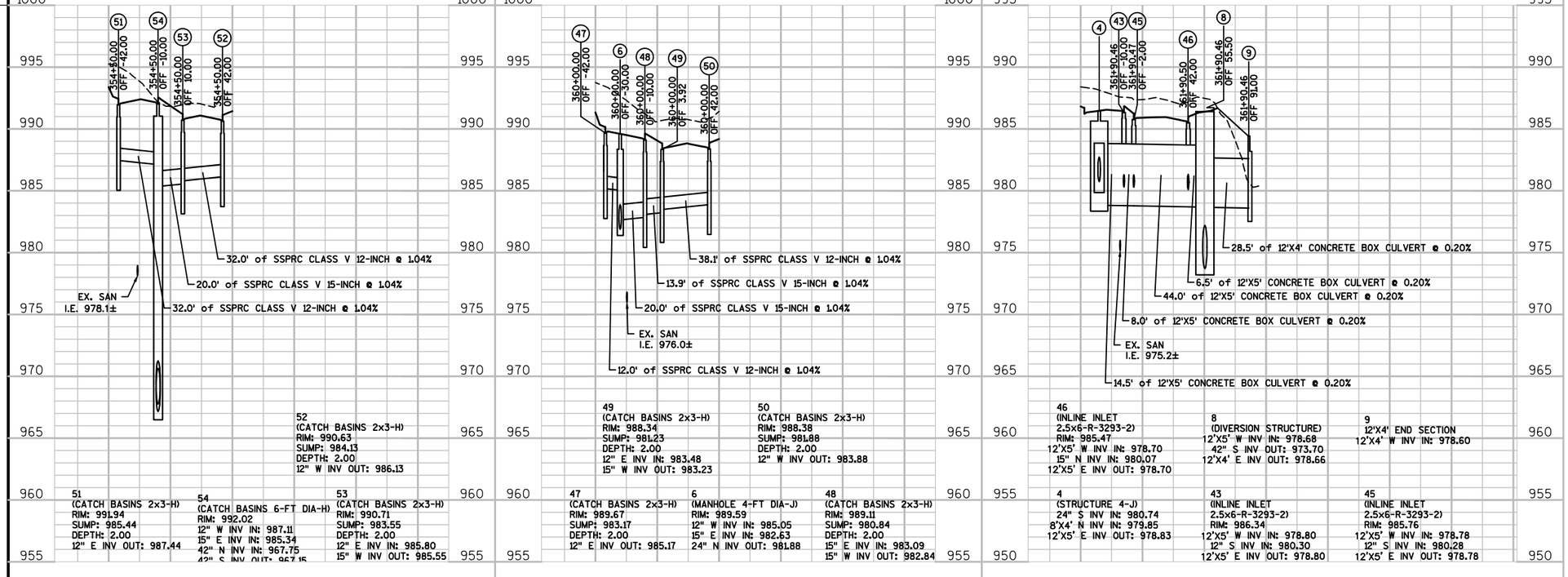
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD STORM SEWER LEADS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: TRY CHECKED BY: _____	PLOT SCALE : 1 IN : 100 FT PLOT DATE : 7/27/2016 11:16 AM	SHEET NO. 44 E PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015023б\CAD\Site\dwg\00±C-01-Storm-PP-Leads-0236.dwg

N

NOTES
1. SEE STORM SEWER CONSTRUCTION NOTES SHEET FOR ALL GENERAL STORM SEWER NOTES.
2. REFER TO DIVERSION STRUCTURE DETAIL FOR ALL PIPE LENGTHS, SLOPES, AND ELEVATIONS.
3. 12X4-FT END SECTION MUST BE APPROVED BY STATE OF WISCONSIN STRUCTURAL PROFESSIONAL ENGINEER. RIP RAP AT 12X4-FT END SECTION SHALL BE REVIEWED BY ENGINEER ONCE 12X4-FT END SECTION IS APPROVED.
4. MAINTAIN STORM SEWER MAINLINE SLOPE OF 0.20% THROUGH 12'X4' END SECTION.
5. 12-INCH CONNECTING TO IN-LINE INLETS 45 AND 45 AND 15-INCH CONNECTING TO IN-LINE INLET 46 SHALL BE DIRECT CONNECTIONS. REFER TO IN-LINE INLET AND INLET DETAIL FOR ADDITIONAL INFORMATION.



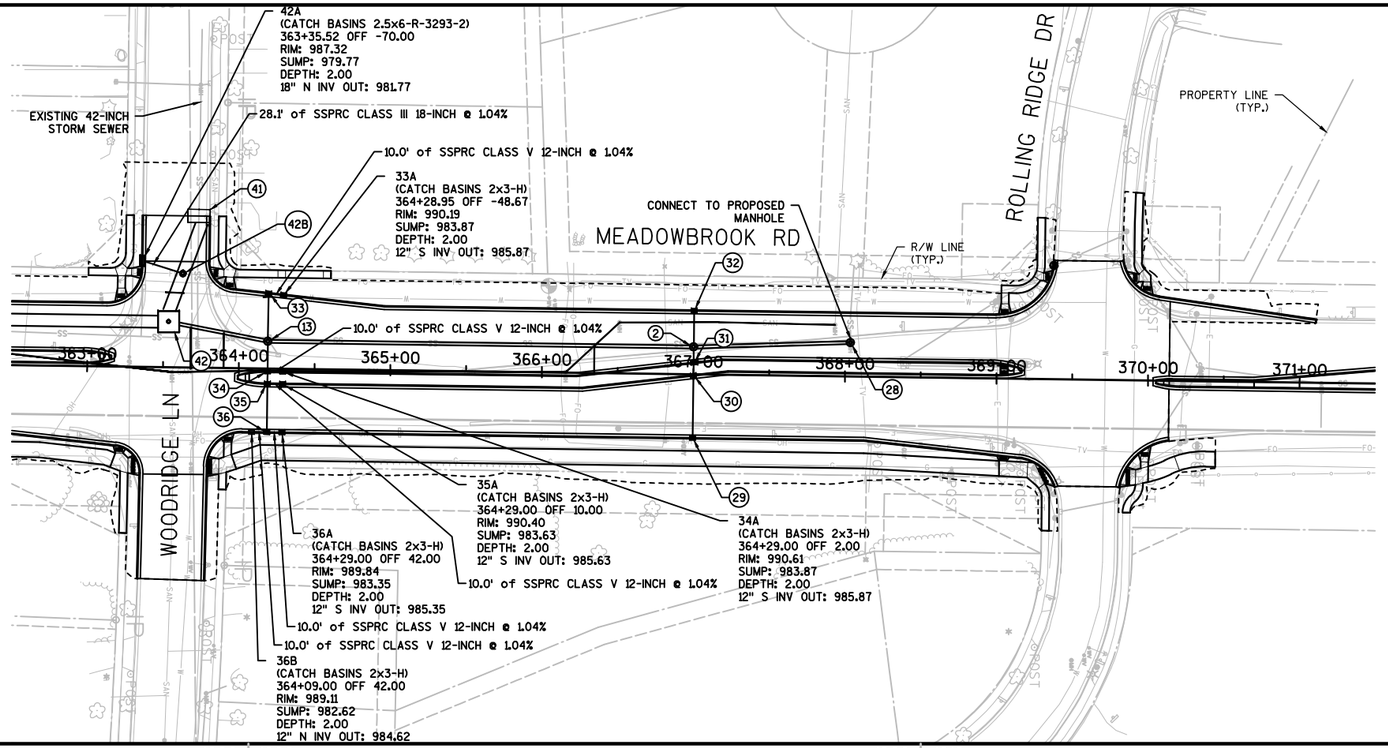


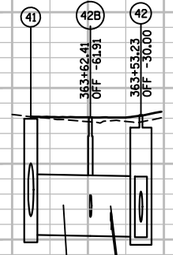
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD STORM SEWER LEADS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: TRY CHECKED BY: _____	PLOT SCALE : 1 IN : 100 FT PLOT DATE : 7/27/2016 11:16 AM	SHEET NO. 45 E PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015236\CAD\Site\dwg\00-C-01-Storm-PP-Leads-0236.dwg

N

NOTES
1. SEE STORM SEWER CONSTRUCTION NOTES SHEET FOR ALL GENERAL STORM SEWER NOTES.
2. 18-INCH CONNECTING TO IN-LINE MANHOLE 42B SHALL BE A DIRECT CONNECTION. REFER TO IN-LINE MANHOLE AND INLET DETAIL FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION DETAILS FOR STRUCTURE 41 AND 42 RIM ELEVATIONS.
4. REFER TO CONSTRUCTION NOTES AND DETAILS FOR STATION AND OFFSET FOR STRUCTURE 41 AND 42.

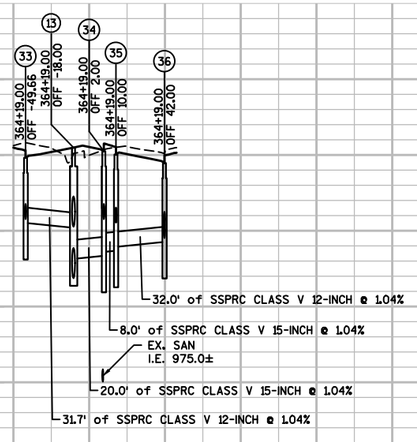




41
(STRUCTURE 41-R-3293-2)
42" W INV IN: 981.53±
8'X4' E INV OUT: 980.30

42B
(INLINE MANHOLE-J)
RIM: 988.08
18" S INV IN: 981.48
8'X4' W INV IN: 980.23
8'X4' E INV OUT: 980.23

42
(STRUCTURE 42-J)
24" N INV IN: 981.17
8'X4' W INV IN: 980.18
8'X4' S INV OUT: 980.15



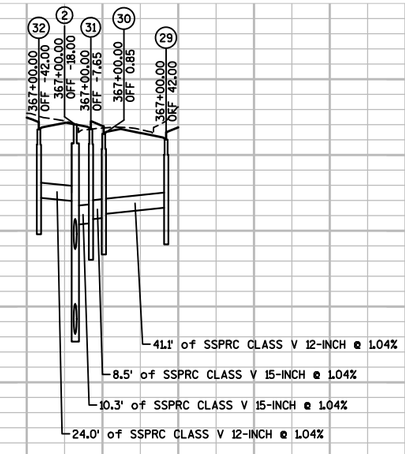
35
(CATCH BASINS 2x3-H)
RIM: 990.03
SUMP: 981.68
DEPTH: 2.00
12" N INV IN: 985.53
12" E INV IN: 983.93
15" W INV OUT: 983.68

36
(CATCH BASINS 2x3-H)
RIM: 989.47
SUMP: 982.26
DEPTH: 2.00
12" N INV IN: 985.25
12" S INV IN: 984.52
12" W INV OUT: 984.26

33
(CATCH BASINS 2x3-H)
RIM: 989.81
SUMP: 983.52
DEPTH: 2.00
12" N INV IN: 985.77
12" E INV OUT: 985.52

13
(MANHOLE 4-FT DIA-J)
RIM: 990.49
12" W INV IN: 985.19
15" E INV IN: 983.14
24" N INV IN: 985.26
24" S INV OUT: 981.86

34
(CATCH BASINS 2x3-H)
RIM: 990.24
SUMP: 981.35
DEPTH: 2.00
12" N INV IN: 985.77
15" E INV IN: 983.60
15" W INV OUT: 983.35



30
(CATCH BASINS 2x3-H)
RIM: 1001.40
SUMP: 993.84
DEPTH: 2.00
12" E INV IN: 996.09
15" W INV OUT: 995.84

29
(CATCH BASINS 2x3-H)
RIM: 1001.02
SUMP: 994.52
DEPTH: 2.00
12" W INV OUT: 996.52

32
(CATCH BASINS 2x3-H)
RIM: 1001.68
SUMP: 995.18
DEPTH: 2.00
12" E INV OUT: 997.18

2
(MANHOLE 4-FT DIA-J)
RIM: 1002.01
12" W INV IN: 996.93
15" E INV IN: 995.39
24" N INV IN: 993.78
24" S INV OUT: 988.18

31
(CATCH BASINS 2x3-H)
RIM: 1001.72
SUMP: 993.50
DEPTH: 2.00
15" E INV IN: 995.75
15" W INV OUT: 995.50

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK ROAD
STORM SEWER LEADS

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: TRY
CHECKED BY: _____

PLOT SCALE : 1 IN : 100 FT
PLOT DATE : 7/27/2016 11:16 AM

SHEET NO. 46 E
PROJECT NO: 2015-0236

FILE NAME : I:\Jobs\2015\20150236\CAD\Site\dwg\00\C-01-Storm-PP-Leads-0236.dwg

N

NORTHVIEW ROAD

LANCASTER DRIVE

RIGHT OF WAY

PROPERTY LINE

ALLOWABLE HAUL ROUTE

STABILIZED CONSTRUCTION ENTRANCE
MINIMUM 50' (L) x 20' (W) X 1' (D)

SCE

TEMPORARY CULVERT

SILT FENCE

WETLAND BOUNDARY PROTECT

CONSTRUCTION FENCING TO PROTECT WETLAND

DIVERSION DITCH

SEED & MULCH

COCONUT BLANKET

6/22 VEGETATED MECHANICALLY STABILIZED EARTH BANK PROTECTION

950 955 960 965 945

LEGEND

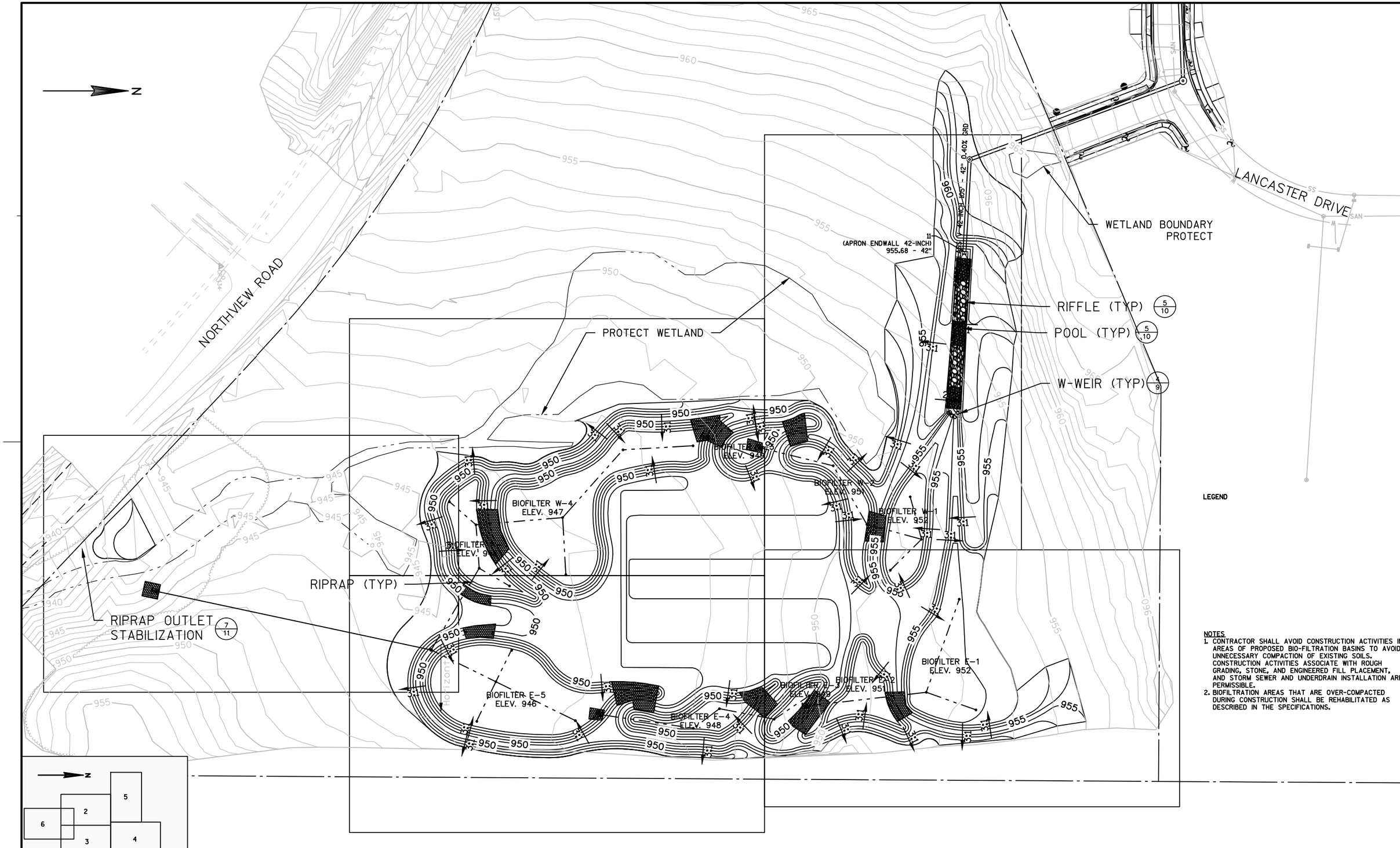
- -SILT FENCE
- -CONSTRUCTION FENCE
- -ALLOWABLE HAUL ROUTE
- -TEMPORARY CULVERT
- -DIVERSION DITCH
- SCE -STABILIZED CONSTRUCTION ENTRANCE
- -SEED AND MULCH
- -COCONUT BLANKET
- -VEGETATED MECHANICALLY STABILIZED EARTH (6/11)

NOTES

1. CONFINE MATERIAL AND EQUIPMENT HAULING AND STORAGE TO CONSTRUCTION LIMITS AND HAUL ROUTES AS SHOWN.
2. DO NOT DISTURB EXISTING ON-SITE WETLANDS. ON-SITE WETLANDS SHALL BE PROTECTED FROM CONSTRUCTION RUNOFF AS SHOWN.
3. REFER TO BIOFILTRATION EROSION CONTROL NOTES WITHIN CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION.

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD EROSION CONTROL MEADOWVIEW PARK	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : 1 IN : 100 FT PLOT DATE : 7/27/2016 11:18 AM	SHEET NO. 47 PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015-0236\CAD\Site\dwg\00\C-00-Erosion-0236.dwg



NOTES
1. CONTRACTOR SHALL AVOID CONSTRUCTION ACTIVITIES IN AREAS OF PROPOSED BIO-FILTRATION BASINS TO AVOID UNNECESSARY COMPACTION OF EXISTING SOILS. CONSTRUCTION ACTIVITIES ASSOCIATE WITH ROUGH GRADING, STONE, AND ENGINEERED FILL PLACEMENT, AND STORM SEWER AND UNDERDRAIN INSTALLATION ARE PERMISSIBLE.
2. BIOFILTRATION AREAS THAT ARE OVER-COMPACTED DURING CONSTRUCTION SHALL BE REHABILITATED AS DESCRIBED IN THE SPECIFICATIONS.

FILE NAME : L:±Jobs2015±20150236±CAD±Site±dwg±00±C-00-Grading-0236.dwg

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD PROPOSED GRADING	APPROVED: DATE: APPROVED: DATE:	DRAWN BY: TRY CHECKED BY:	PLOT SCALE : 1 IN : 100 FT PLOT DATE : 7/27/2016 11:21 AM	SHEET NO. 48 PROJECT NO: 2015-0236

N

POOL
EL. 955.07'

RIFFLE
EL. 955.92'

POOL
EL. 954.50'

RIFFLE
CREST: 955.23'

W-WEIR

POOL
INV: 953.72'

SSPRC CLASS V 42-INCH 105' - 42" 0.40% GRD

24' 48' 27' 48' 24'

3:1

11
(APRON ENDWALL 42-INCH)
955.68 - 42"

PROPOSED CONTOUR (TYP)

EXISTING CONTOUR (TYP)

GRADING
LIMITS

WETLAND BOUNDARY
PROTECT

6" UNDERDRAIN CLEANOUT
RIM: 952.00'
6" S/SE/SW INV: 950.00'

BIOFILTER W-1
ELEV. 952

50 LF 6" PERFORATED PVC
S=0.0000

6" UNDERDRAIN CLEANOUT
RIM: 952.00'
6" NE INV: 950.00'

OVERFLOW WEIR 30'x20'
CREST ELEV. 954.50'

964 LF 6" PERFORATED PVC
S=0.0036

BIOFILTER W-2
ELEV. 951

6" UNDERDRAIN CLENAOUT
135± BEND
RIM: 951.00'
6" NE/S INV: 949.00'

168 LF 6" PERFORATED PVC
S=0.0000

OVERFLOW WEIR 20'x30'
CREST ELEV. 953.50'

LEGEND

950 -EXISTING CONTOUR

950 -PROPOSED CONTOUR

-GRADING LIMITS

-PERFORATED UNDERDRAIN

-OVERFLOW WEIR

N
13
10
14
11
12

NOTES
1. CONTRACTOR SHALL AVOID CONSTRUCTION ACTIVITIES IN AREAS OF PROPOSED BIO-FILTRATION BASINS TO AVOID UNNECESSARY COMPACTION OF EXISTING SOILS. CONSTRUCTION ACTIVITIES ASSOCIATE WITH ROUGH GRADING, STONE, AND ENGINEERED FILL PLACEMENT, AND STORM SEWER AND UNDERDRAIN INSTALLATION ARE PERMISSIBLE.
2. BIOFILTRATION AREAS THAT ARE OVER-COMPACTED DURING CONSTRUCTION SHALL BE REHABILITATED AS DESCRIBED IN THE SPECIFICATIONS.

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK ROAD
PROPOSED GRADING

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: TRY
CHECKED BY: _____

PLOT SCALE : 1 IN : 30 FT
PLOT DATE : 7/27/2016 11:21 AM

SHEET NO. 49
PROJECT NO: 2015-0236

FILE NAME : L:\Jobs\2015\20150236\CAD\Site\dwg\00\C-00-Grading-0236.dwg

N

6" UNDERDRAIN CLEANOUT
RIM: 952.00'
6" NW INV: 950.00'

6" UNDERDRAIN CLEANOUT
RIM: 952.00'
6" SE INV: 950.00'

EXISTING CONTOUR (TYP)

PROPOSED CONTOUR (TYP)

OVERFLOW WEIR 21'x28'
CREST ELEV. 952.50'

6" UNDERDRAIN CLEANOUT
RIM: 949.00'
6" S INV: 947.00'

OVERFLOW WEIR 40'x22'
CREST ELEV. 953.50'

OVERFLOW WEIR 26'x22'
CREST ELEV. 954.50'

112 LF 6" PERFORATED PVC
S=0.0000

6" UNDERDRAIN CLEANOUT
135° BEND
RIM: 952.00'
6" NW/S/N INV: 950.00'

BIOFILTER E-2
ELEV. 951

BIOFILTER E-3
ELEV. 949

142 LF 6" PERFORATED PVC
S=0.0070

60 LF 6" PERFORATED PVC
S=0.0000

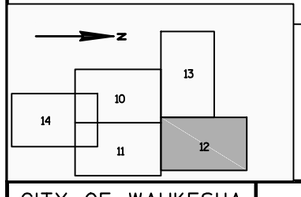
6" UNDERDRAIN CLEANOUT
RIM: 952.00'
6" S INV: 950.00'

BIOFILTER E-1
ELEV. 952

48 LF 6" PERFORATED PVC
S=0.0000

6" F.E.S.
6" N INV OUT: 949.00'

6" UNDERDRAIN CLEANOUT
135° BEND
RIM: 949.00'
6" NW/S INV: 947.00'



LEGEND

- 950 — -EXISTING CONTOUR
- 950 — -PROPOSED CONTOUR
- -GRADING LIMITS
- -PERFORATED UNDERDRAIN
- -OVERFLOW WEIR

NOTES
1. CONTRACTOR SHALL AVOID CONSTRUCTION ACTIVITIES IN AREAS OF PROPOSED BIO-FILTRATION BASINS TO AVOID UNNECESSARY COMPACTION OF EXISTING SOILS. CONSTRUCTION ACTIVITIES ASSOCIATE WITH ROUGH GRADING, STONE, AND ENGINEERED FILL PLACEMENT, AND STORM SEWER AND UNDERDRAIN INSTALLATION ARE PERMISSIBLE.
2. BIOFILTRATION AREAS THAT ARE OVER-COMPACTED DURING CONSTRUCTION SHALL BE REHABILITATED AS DESCRIBED IN THE SPECIFICATIONS.

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK ROAD
PROPOSED GRADING

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: TRY
CHECKED BY: _____

PLOT SCALE : 1 IN : 30 FT
PLOT DATE : 7/27/2016 11:21 AM

SHEET NO. 50
PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015023б\CAD\Site\dwg\00\C-00-Grading-0236.dwg

N

EXISTING CONTOUR (TYP)

PROTECT WETLAND

PROPOSED CONTOUR (TYP)

GRADING LIMITS

LEGEND

950 -EXISTING CONTOUR

950 -PROPOSED CONTOUR

-GRADING LIMITS

-PERFORATED UNDERDRAIN

-OVERFLOW WEIR

NOTES
1. CONTRACTOR SHALL AVOID CONSTRUCTION ACTIVITIES IN AREAS OF PROPOSED BIO-FILTRATION BASINS TO AVOID UNNECESSARY COMPACTION OF EXISTING SOILS. CONSTRUCTION ACTIVITIES ASSOCIATE WITH ROUGH GRADING, STONE, AND ENGINEERED FILL PLACEMENT, AND STORM SEWER AND UNDERDRAIN INSTALLATION ARE PERMISSIBLE.
2. BIOFILTRATION AREAS THAT ARE OVER-COMPACTED DURING CONSTRUCTION SHALL BE REHABILITATED AS DESCRIBED IN THE SPECIFICATIONS.

6" F.E.S.
6" N INV OUT: 949.00'

OVERFLOW WEIR 21'x25'
CREST ELEV. 952.50'

6" UNDERDRAIN CLEANOUT
135° BEND
RIM: 947.00'
6" N/SE INV: 945.00'

6" F.E.S.
6" N INV OUT: 947.00'

6" UNDERDRAIN CLEANOUT
RIM: 947.00'
6" S INV: 945.00'

BIOFILTER W-3
ELEV. 949

6" UNDERDRAIN CLEANOUT
RIM: 949.00'
6" S INV: 947.00'

183 LF 6" PERFORATED PVC
S=0.0000 '/'

6" UNDERDRAIN CLEANOUT
RIM: 946.00'
6" NE INV: 944.00'

40 LF 6" PERFORATED PVC
S=0.0000 '/'

BIOFILTER W-5
ELEV. 946

OVERFLOW WEIR 50'x24'
CREST ELEV. 950.50'

6" UNDERDRAIN CLEANOUT
135° BEND
RIM: 947.00'
6" NW/S/E INV: 945.00'

99 LF 6" PERFORATED PVC
S=0.0101 '/'

6" UNDERDRAIN CLEANOUT
90° BEND
RIM: 946.00'
6" N/E/SW INV: 944.00'

50 LF 6" PERFORATED PVC
S=0.0000 '/'

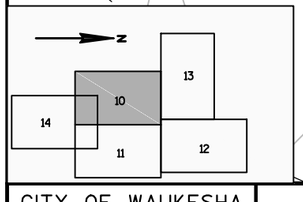
BIOFILTER W-4
ELEV. 947

65 LF 6" PERFORATED PVC
S=0.0000 '/'

6" UNDERDRAIN CLEANOUT
135° BEND
RIM: 946.00'
6" W/SE/NE INV: 944.00'

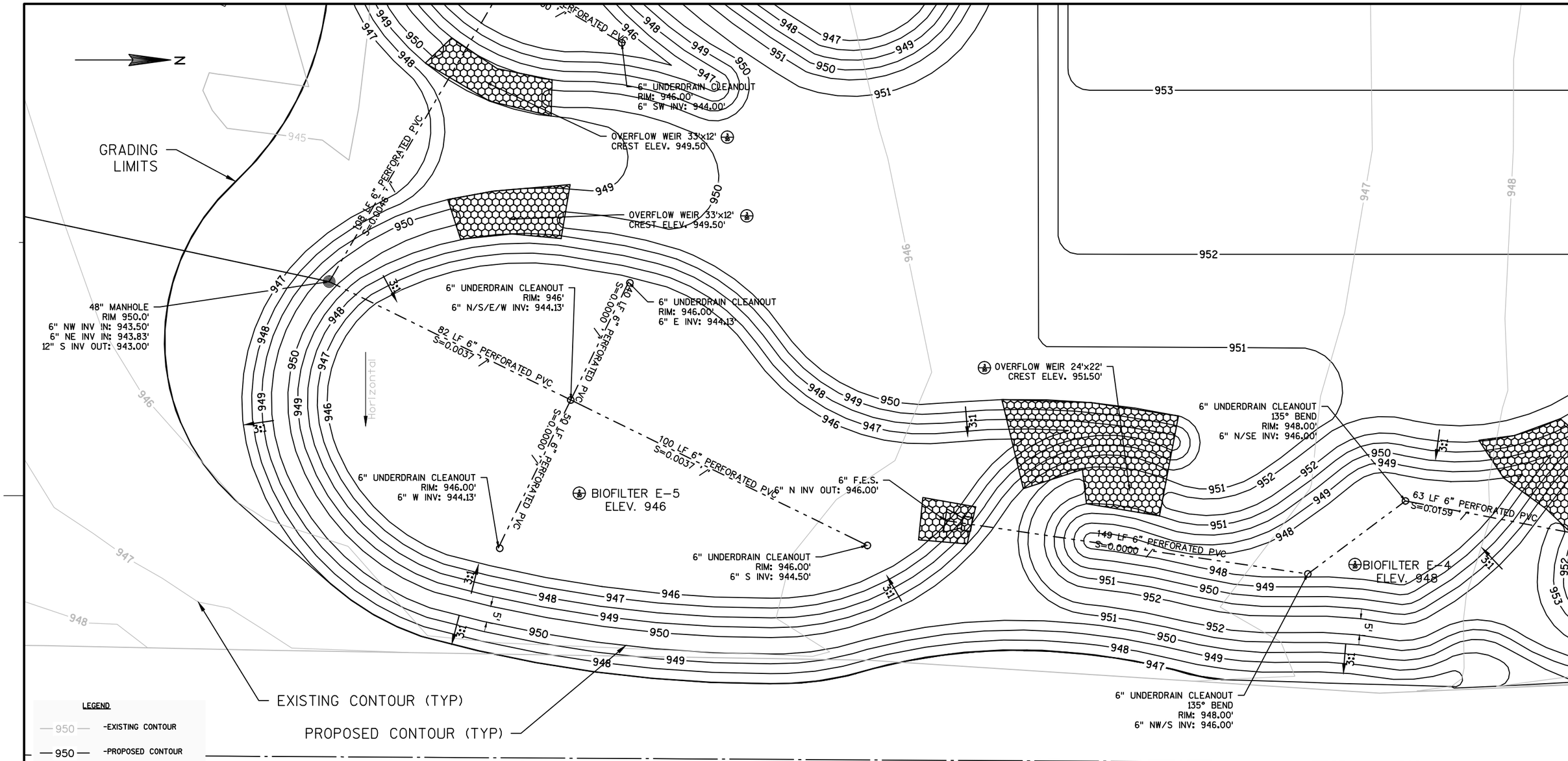
40 LF 6" PERFORATED PVC
S=0.0000 '/'

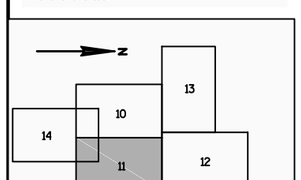
6" UNDERDRAIN CLEANOUT
RIM: 947.00'
6" W INV: 945.00'



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD PROPOSED GRADING	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : 1 IN : 30 FT PLOT DATE : 7/27/2016 11:21 AM	SHEET NO. **51** PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015O236\CAD\Site\dwg\00\C-00-Grading-0236.dwg





NOTES
1. CONTRACTOR SHALL AVOID CONSTRUCTION ACTIVITIES IN AREAS OF PROPOSED BIO-FILTRATION BASINS TO AVOID UNNECESSARY COMPACTION OF EXISTING SOILS. CONSTRUCTION ACTIVITIES ASSOCIATE WITH ROUGH GRADING, STONE, AND ENGINEERED FILL PLACEMENT, AND STORM SEWER AND UNDERDRAIN INSTALLATION ARE PERMISSIBLE.
2. BIOFILTRATION AREAS THAT ARE OVER-COMPACTED DURING CONSTRUCTION SHALL BE REHABILITATED AS DESCRIBED IN THE SPECIFICATIONS.

FILE NAME : L:±Jobs2015±20150236±CAD±Site±dwg±00±C-00-Grading-0236.dwg

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD PROPOSED GRADING	APPROVED: DATE: APPROVED: DATE:	DRAWN BY: TRY CHECKED BY:	PLOT SCALE : 1 IN : 30 FT PLOT DATE : 7/27/2016 11:21 AM	SHEET NO. 52 PROJECT NO: 2015-0236

N

NORTHVIEW ROAD

WETLAND BOUNDARY PROTECT

GRADING LIMITS

WETLAND BOUNDARY PROTECT

RIPRAP OUTFALL STABILIZATION

12" F.E.S.
12" N INV OUT: 942.00'

325 LF 12" PVC STORM SEWER AT 0.0031 '/'

EXISTING CONTOUR (TYP)

PROPOSED CONTOUR (TYP)

GRADING LIMITS

BIOFILTER W-5
ELEV. 946

40 LF
S=0.0000

6" UNDERDRAIN CLEA
90°
RIM: 9
6" N/E/SW INV: 9

6" UNDERDRAIN CLEA
135°
RIM: 9
6" W/SE/NE INV: 9

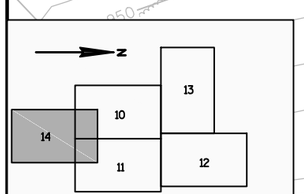
108 LF 6" PERFORATED PVC
S=0.0046

48" MANHOLE
RIM 950.0'
6" NW INV IN: 943.50'
6" NE INV IN: 943.83'
12" S INV OUT: 943.00'

3:1

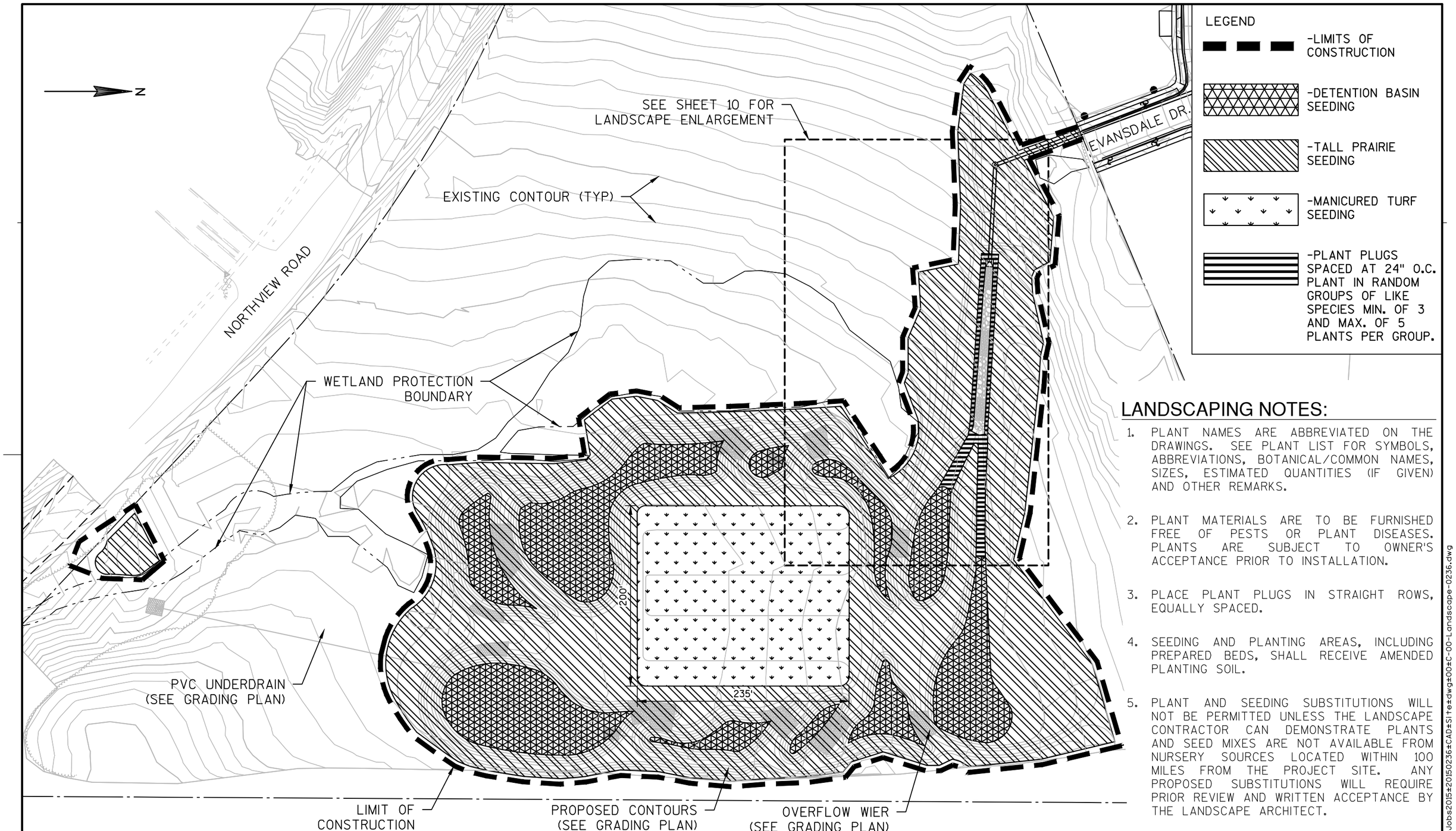
LEGEND

NOTES
1. CONTRACTOR SHALL AVOID CONSTRUCTION ACTIVITIES IN AREAS OF PROPOSED BIO-FILTRATION BASINS TO AVOID UNNECESSARY COMPACTION OF EXISTING SOILS. CONSTRUCTION ACTIVITIES ASSOCIATE WITH ROUGH GRADING, STONE, AND ENGINEERED FILL PLACEMENT, AND STORM SEWER AND UNDERDRAIN INSTALLATION ARE PERMISSIBLE.
2. BIOFILTRATION AREAS THAT ARE OVER-COMPACTED DURING CONSTRUCTION SHALL BE REHABILITATED AS DESCRIBED IN THE SPECIFICATIONS.



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD PROPOSED GRADING	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: TRY CHECKED BY: _____	PLOT SCALE : 1 IN : 30 FT PLOT DATE : 7/27/2016 11:21 AM	SHEET NO. 53 PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015023 6\CAD\Site\dwg\00\C-00-Grading-0236.dwg



LANDSCAPING NOTES:

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

2. PLANT MATERIALS ARE TO BE FURNISHED FREE OF PESTS OR PLANT DISEASES. PLANTS ARE SUBJECT TO OWNER'S ACCEPTANCE PRIOR TO INSTALLATION.

3. PLACE PLANT PLUGS IN STRAIGHT ROWS, EQUALLY SPACED.

4. SEEDING AND PLANTING AREAS, INCLUDING PREPARED BEDS, SHALL RECEIVE AMENDED PLANTING SOIL.

5. PLANT AND SEEDING SUBSTITUTIONS WILL NOT BE PERMITTED UNLESS THE LANDSCAPE CONTRACTOR CAN DEMONSTRATE PLANTS AND SEED MIXES ARE NOT AVAILABLE FROM NURSERY SOURCES LOCATED WITHIN 100 MILES FROM THE PROJECT SITE. ANY PROPOSED SUBSTITUTIONS WILL REQUIRE PRIOR REVIEW AND WRITTEN ACCEPTANCE BY THE LANDSCAPE ARCHITECT.

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD LANDSCAPE PLAN OVERVIEW	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: TRY CHECKED BY: _____	PLOT SCALE : 1 IN : 100 FT PLOT DATE : 7/27/2016 11:24 AM	SHEET NO. 54 PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015-0236\CAD\Site\dwg\00\C-00-Landscape-0236.dwg

APRON ENDWALL
(SEE GRADING PLAN)

STONE RIP RAP
(SEE GRADING PLAN)

SEE VEGETATED MECHANICALLY STABILIZED EARTH DETAIL (SHEET 21). LIVE PLANT WHIPS SPACED AT MIN. 5' O.C.

LIMIT OF CONSTRUCTION

WETLAND PROTECTION BOUNDARY

OVERFLOW WIER
(SEE GRADING PLAN)

LEGEND

- -LIMITS OF CONSTRUCTION
- -DETENTION BASIN SEED MIX
- -TALL PRAIRIE SEED MIX
- -MANICURED TURF SEED MIX
- -PLANT PLUGS SPACED AT 24" O.C. PLANT IN RANDOM GROUPS OF LIKE SPECIES MIN. OF 3 AND MAX. OF 5 PLANTS PER GROUP.

N

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK ROAD
LANDSCAPE PLAN ENLARGEMENT

APPROVED: _____ DATE: _____
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PLOT SCALE : 1 IN : 30 FT
PLOT DATE : 7/27/2016 11:25 AM

SHEET NO. 55
PROJECT NO: 2015-0236

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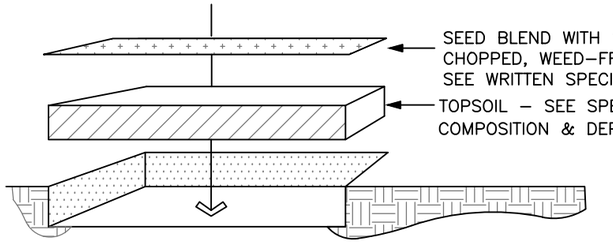
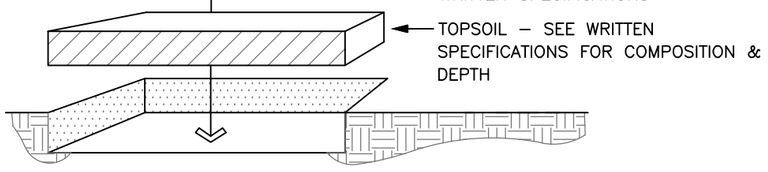


–TOPSOIL SHALL CONFORM TO PROPERTIES AS DESCRIBED IN WRITTEN SPECIFICATION.
–CONTRACTOR TO PROVIDE FINISHED TURF GRADE PER DRAWINGS WITH UNIFORM, NATURAL SLOPES PRIOR TO THE SOWING OF SEED.
–SEED BLEND & APPLICATION PROCEDURES ARE DESCRIBED IN WRITTEN SPECIFICATION.
–SEE LANDSCAPE PLAN FOR LOCATION OF VARIOUS SEED MIXES.
–CONTRACTOR SHALL PROVIDE SEED GERMINATION AND ESTABLISH VIGOROUS PLANT GROWTH AS DESCRIBED IN WRITTEN SPECIFICATION.
–CONTRACTOR SHALL PERFORM MAINTENANCE SERVICES IN ORDER TO PROVIDE ADEQUATE WEED CONTROL. SEE WRITTEN SPECIFICATION FOR DETAILED MAINTENANCE SERVICES AND DURATION.

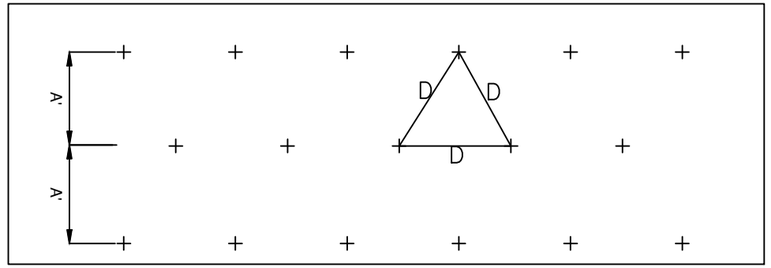
1 PRAIRIE / WILDFLOWER SEEDING



–TOPSOIL SHALL CONFORM TO PROPERTIES AS DESCRIBED IN WRITTEN SPECIFICATION.
–CONTRACTOR TO PROVIDE FINISHED TURF GRADE PER DRAWINGS WITH UNIFORM, NATURAL SLOPES PRIOR TO THE SOWING OF SEED. SEED BLEND & APPLICATION PROCEDURES ARE DESCRIBED IN WRITTEN SPECIFICATION
–LANDSCAPE CONTRACTOR SHALL ESTABLISH VIGOROUS GROWTH AND MOW & MAINTAIN AS DESCRIBED IN WRITTEN SPECIFICATION.

2 MANICURED TURF SEEDING

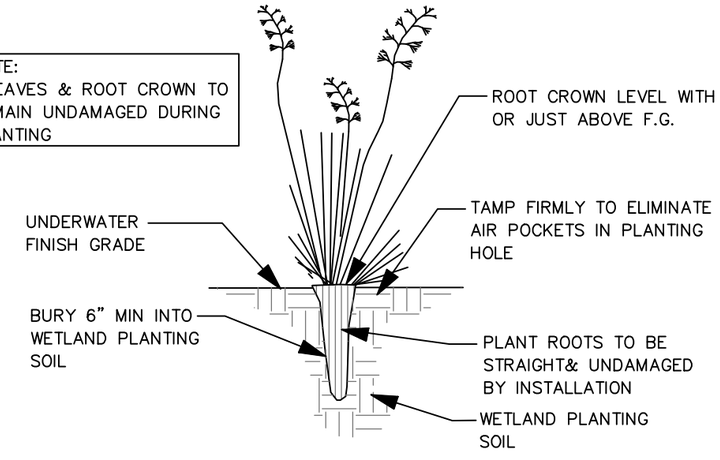
SPACING "D"	ROW "A"	NO. OF PLANTS
24"	20.8"	2.9



SPECIES PLANT LAYOUT

3 PLANT SPACING DIAGRAM FOR PERENNIALS AND ORNAMENTAL GRASSES

NOTE:
–LEAVES & ROOT CROWN TO REMAIN UNDAMAGED DURING PLANTING



4 WETLAND SHELF PLUG PLANTING DETAIL

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	MATURE SIZE
CSB	Cornus sericea	Red Osier Dogwood	Live Whip	5'	6'-9'h x 8'-12"w
SDC	Salix discolor	Pussy Willow	Live Whip	5'	15'-20'h x 7'-9'w

PLANT PLUG LIST	
FORBS	**COMMON NAME**
Allium cernuum	Nodding Pink Onion
Asclepias incarnata	Red Milkweed
Aster novae-angliae	New England Aster
Cacalia atriplicifoia	Pale Indian Plantain
Eupatorium maculatum	Joe Pye Weed
Eupatorium perfoliatum	Boneset
Helenium autumnale	Dogtooth Daisy
Heliopsis helianthoides	Ox Eye Sunflower
Iris versicolor	Blue Flag Iris
Liatris pycnostachya	Prairie Blazingstar
Liatris spicata	Dense Blazingstar
Monarda fistulosa	Bergamot
Ratibida pinnata	Yellow Coneflower
Rudbeckia hirta	Black Eyed Susan
Rudbeckia subtomentosa	Sweet Black Eyed Susan
Rudbeckia triloba	Brown Eyed Susan
Silphium perfoliatum	Cupplant
Silphium terebinthinaceum	Prairie Dock
Solidago ohioensis	Ohio Goldenrod
Solidago rigida	Stiff Goldenrod
Verbena hastata	Blue Vervain
Vernonia fasciculata	Ironweed
Zizia aurea	Golden Alexanders
TOTAL FORBS	
LEGUMES	
Cassia hebecarpa	Wild Senna
Desmodium canadense	Canada Tick Trefoil
GRASSES, SEDGES & RUSHES	
Andropogon gerardi	Big Bluestem
Carex comosa	Bottlebrush Sedge
Carex hystericina	Porcupine Sedge
Carex scoparia	Lance Fruited Oval Sedge
Carex stipata	Awl Fruited Sedge
Carex vulpinoidea	Fox Sedge
Elymus canadensis	Canada Wild Rye
Elymus virginicus	Virginia Wild Rye
Panicum virgatum	Switchgrass
Scirpus atrovirens	Dark Green Bulrush
Sorghastrum nutans	Indiangrass
Spartina pectinata	Prairie Cordgrass

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CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD LANDSCAPE DETAILS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : 1 IN : 30 FT PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 56 PROJECT NO: 2015-0236

BIOFILTRATION EROSION CONTROL NOTES

1. CONSTRUCTION SITE EROSION CONTROL AND SEDIMENTATION CONTROL SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF WAUKESHA, AND SHALL EMPLOY EROSION CONTROL METHODS AS SHOWN AND SPECIFIED IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) "CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS".

2. ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.

3. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION AFTER A RAINFALL OF 0.5 INCHES OR MORE, BUT NO LESS THAN ONCE EVERY WEEK. MAINTENANCE OF ALL EROSION CONTROL STRUCTURES SHALL BE PROVIDED TO INSURE INTENDED PURPOSE IS ACCOMPLISHED. REPAIRS AND MAINTENANCE SHALL BE COMPLETED WITHIN 24 HOURS OF INSPECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND REMOVAL OF ALL SEDIMENT WHEN LEAVING PROPERTY. EROSION CONTROL MEASURES MUST BE IN WORKING CONDITION AT END OF EACH WORK DAY.

4. SILT FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. SEDIMENT DEPOSITS WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN DEPOSITS REACH A DEPTH OF 6 INCHES. THE SILT FENCE WILL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.

5. FILTER FABRIC SHALL BE INSTALLED BENEATH INLET COVERS TO TRAP SEDIMENT AS PER INLET PROTECTION DETAIL IN THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS.

6. EROSION CONTROL MEASURES SHALL BE MAINTAINED ON A CONTINUING BASIS UNTIL SITE IS FULLY STABILIZED.

7. PERIODIC STREET SWEEPING SHALL BE COMPLETED TO MAINTAIN THE PUBLIC STREET FREE OF DUST AND DIRT.

8. SILT FENCE SHALL BE INSTALLED IN HORSESHOE FASHION AROUND ALL TOPSOIL AND FILL STOCKPILES. NOTIFY CITY OF WAUKESHA OF ANY NEW STOCKPILE LOCATIONS.

9. SITE DEWATERING. WATER PUMPED FROM THE SITE SHALL BE TREATED BY SEDIMENT BASINS OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICES SPECIFIED IN THE WDNR "CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS". WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, ADJACENT SITES, OR RECEIVING CHANNELS.

10. WASTE AND MATERIAL DISPOSAL. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.

11. SEDIMENT CLEANUP. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE THE WORK DAY.

12. ALL DISTURBED GROUND LEFT INACTIVE FOR SEVEN OR MORE DAYS SHALL BE STABILIZED BY TEMPORARY OR PERMANENT SEEDING, AND MULCHING SODDING, COVERING WITH TARPS, OR EQUIVALENT BEST MANAGEMENT PRACTICES. IF TEMPORARY SEEDING IS USED, A PERMANENT COVER SHALL ALSO BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION. SEEDING OR SODDING SHALL BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION.

13. PERMANENT SEEDING SHALL BE ESTABLISHED AS SPECIFIED. IF PERMANENT SEEDING IS NOT ESTABLISHED, TEMPORARY SEEDING SHALL BE ESTABLISHED NO LATER THAN OCTOBER 15TH. ALL SEEDED AREAS MUST BE MULCHED AT A RATE OF 1.5 TO 2 TONS PER ACRE AND ANCHORED BY EITHER CRIMPING OR BY APPLYING A TACKIFIER.

14. REFER TO LANDSCAPE PLAN AND SPECIFICATION FOR TEMPORARY AND PERMANENT SEED MIX.

15. SOIL OR DIRT STORAGE PILES SHALL BE LOCATED A MINIMUM OF TWENTY-FIVE FEET FROM ANY DOWNSLOPE ROAD, LAKE, STREAM, WETLAND, OR DRAINAGE CHANNEL. STRAW BALE OR FILTER FABRIC FENCES SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE PILE. IF REMAINING FOR MORE THAN THIRTY DAYS. PILES SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPS, OR OTHER MEANS.

16. WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BEST MANAGEMENT PRACTICES SUCH AS FILTER FABRIC FENCES, STRAW BALES, SEDIMENT AND SEDIMENT TRAPS SHALL BE REMOVED.

17. NOTIFY THE CITY WITHIN TWO WORKING DAYS OF COMMENCING ANY LAND DEVELOPMENT OR LAND DISTURBING ACTIVITY.

18. NOTIFY THE CITY OF COMPLETION OF ANY BEST MANAGEMENT PRACTICES WITHIN THE NEXT WORKING DAY AFTER THEIR INSTALLATION.

19. OBTAIN PERMISSION IN WRITING FROM THE CITY OF WAUKESHA ENGINEERING DEPARTMENT PRIOR TO MODIFYING THE EROSION CONTROL PLAN. NOTIFY WDNR AT LEAST FIVE WORKING DAYS PRIOR TO IMPLEMENTING CHANGES TO THE EROSION CONTROL PLAN.

20. REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPMENT OR LAND DISTURBING ACTIVITIES.

21. KEEP A COPY OF THE EROSION CONTROL PLAN ON SITE. INTERSECTING DIRECTIONS.

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	BIOFILTRATION EROSION CONTROL CONSTRUCTION NOTES	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: TRY CHECKED BY: _____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 57 E PROJECT NO: 2015-0236

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REMOVAL NOTES

1. EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AND DISCREPENCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.

2. CONTRACTOR SHALL REFER TO REMOVAL SHEETS FOR ALL STORM SEWER REMOVALS.

UTILITY NOTES

1. CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING INVERTS PRIOR TO INSTALLATION OF PROPOSED UTILITIES.

2. CONTRACTOR SHALL VERIFY ALL PROPOSED RIM ELEVATIONS PRIOR TO ORDERING AND CONSTRUCTING STORM STRUCTURES. NOTIFY ENGINEER OF ANY DISCREPANCIES.

3. CONTRACTOR SHALL AT WATER MAIN CROSSINGS, CENTER ONE FULL LENGTH OF WATER PIPE ON SEWER, SUCH THAT BOTH JOINTS WILL BE AS FAR FROM SEWER AS POSSIBLE, UNLESS OTHERWISE NOTED.

4. CONTRACTOR SHALL COORDINATE WITH LOCAL GAS, TELEPHONE, AND ELECTRICAL UTILITIES FOR EXACT LOCATION, SIZE AND DEPTH OF EXISTING AND/OR RELOCATED SERVICE.

5. RIM ELEVATIONS IN CURB AND GUTTER ARE AT FLOW LINE OF FACE OF CURB.

6. RIM ELEVATIONS WITHIN PAVEMENTS ARE AT CENTER OF STRUCTURE.

7. RIM ELEVATIONS FOR STRUCTURE 42, 4, AND 8 ARE AT CASTING AS INDICATED IN STRUCTURE CONSTRUCTION DETAILS.

8. STATION AND OFFSET FOR DIVERSION STRUCTURE 8 AND STRUCTURE 42 ARE AT CENTER OF STRUCTURE.

9. STATION AND OFFSET FOR STRUCTURE 4 HAVE CALLOUTS AT THE MIDDLE INSIDE FACE OF THE INCOMING AND OUTGOING PIPES. SEE STRUCTURE 4 CONSTRUCTION DETAILS FOR EXACT STATION AND OFFSETS.

10. STATION AND OFFSET FOR STRUCTURE 41 IS AT BACK OF CURB FOR CENTER OF CASTING R-3293-2. SEE STRUCTURE 41 CONSTRUCTION DETAIL FOR STATION AND OFFSETS.

11. ALL CATCH BASINS SHALL MEET WISDOT STANDARDS, CATCH BASINS 2x3-FT, WITH TYPE H FRAME AND GRATE UNLESS OTHERWISE NOTED.

12. ALL CATCH BASINS SHALL HAVE 2-FOOT SUMP BELOW LOWEST INVERT.

13. ALL PIPES WITH A DIAMETER OF 48-INCHES OR LESS HAVE LENGTHS FROM CENTER TO CENTER OF STRUCTURE. ALL PIPES WITH A DIAMETER LARGER THAN 48-INCHES HAVE PIPE LENGTHS FROM INSIDE FACE TO INSIDE FACE OF STRUCTURE, UNLESS STRUCTURE IS A IN-LINE MANHOLE OR IN-LINE INLET.

14. ALL STRUCTURES WITHIN CURB AND GUTTER HAVE STATION AND OFFSET AT FACE OF CURB, UNLESS OTHERWISE NOTED.

15. ALL STRUCTURES OUT OF CURB AND GUTTER HAVE STATION AND OFFSET AT CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.

16. CONTRACTOR SHALL REFER TO STORM SEWER CONSTRUCTION DETAIL SHEETS FOR STRUCTURE 4, 8, 41, AND 42.

17. STRUCTURES 4, 8, 41, AND 42 SHELL BE PLACED ON BEDDING MATERIAL OF AT LEAST 6-INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OIF BASE. CONTRACTOR SHALL CONFIRM WITH GEOTECHNICAL ENGINEER SUBSOIL IS SUITABLE FOR ALL STRUCTURES. IS SUBSOIL IS NOT SUITABLE, CONTRACTOR SHALL PREPARE SUBGRADE TO SATISFACTION OF GEOTECHNICAL ENGINEER.

18. CONTRACTOR SHALL REFER TO STORM SEWER CONSTRUCTION DETAIL SHEETS FOR ALL INLINE MANHOLES AND INLINE INLETS.

19. PROPOSED 12'x5', 12'x4', AND 8'x4' PRECAST BOX CULVERTS SHALL MEET THE ASTM C1433 AND C1577 STANDARDS.

STRUCTURAL NOTES

1. DESIGN IS IN ACCORDANCE WITH ACI 530-06.

2. MINIMUM 28 DAY CONCRETE CYLINDER STRENGTH SHALL BE 4000 PSI WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45.

3. MAXIMUM FLYASH REPLACEMENT 25%. MINIMUM AIR CONTENT 5.5%.

4. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.

5. CONTRACTOR IS RESPONSIBLE FOR ALL MEAN AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.

STRUCTURAL EARTHWORK NOTES

1. BASES SHALL BE CAST ON UNDISTURBED SUBSOIL. IF MINIMUM 2000 PSF DESIGN CAPACITY IS NOT ENCOUNTERED AT THE ELEVATIONS SHOWN ADDITIONAL BASE PREPARATION MAY BE REQUIRED. CONSULT GEOTECHNICAL ENGINEER BEFORE PROCEEDING.

2. BACKFILL EVENLY ON EACH SIDE OF STRUCTURES.

3. BACKFILL AGAINST STRUCTURES SHALL BE GRANULAR FILL.

STRUCTURAL CONCRETE NOTES

1. FORMWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE.

2. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE UNLESS OTHERWISE NOTED.

3. LAP ALL WALL BARS 36 DIAMETERS.

4. CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI AS FOLLOWS
   BASES 3"
   SLABS & WALLS 2"

5. CONCRETE SHALL BE TESTED BY THE OWNER'S TESTING LAB. SEE SPECIFICATIONS FOR REQUIREMENTS.

6. CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES.

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	STORM SEWER CONSTRUCTION NOTES	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: TRY CHECKED BY: _____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. **58** **E** PROJECT NO: 2015-0236

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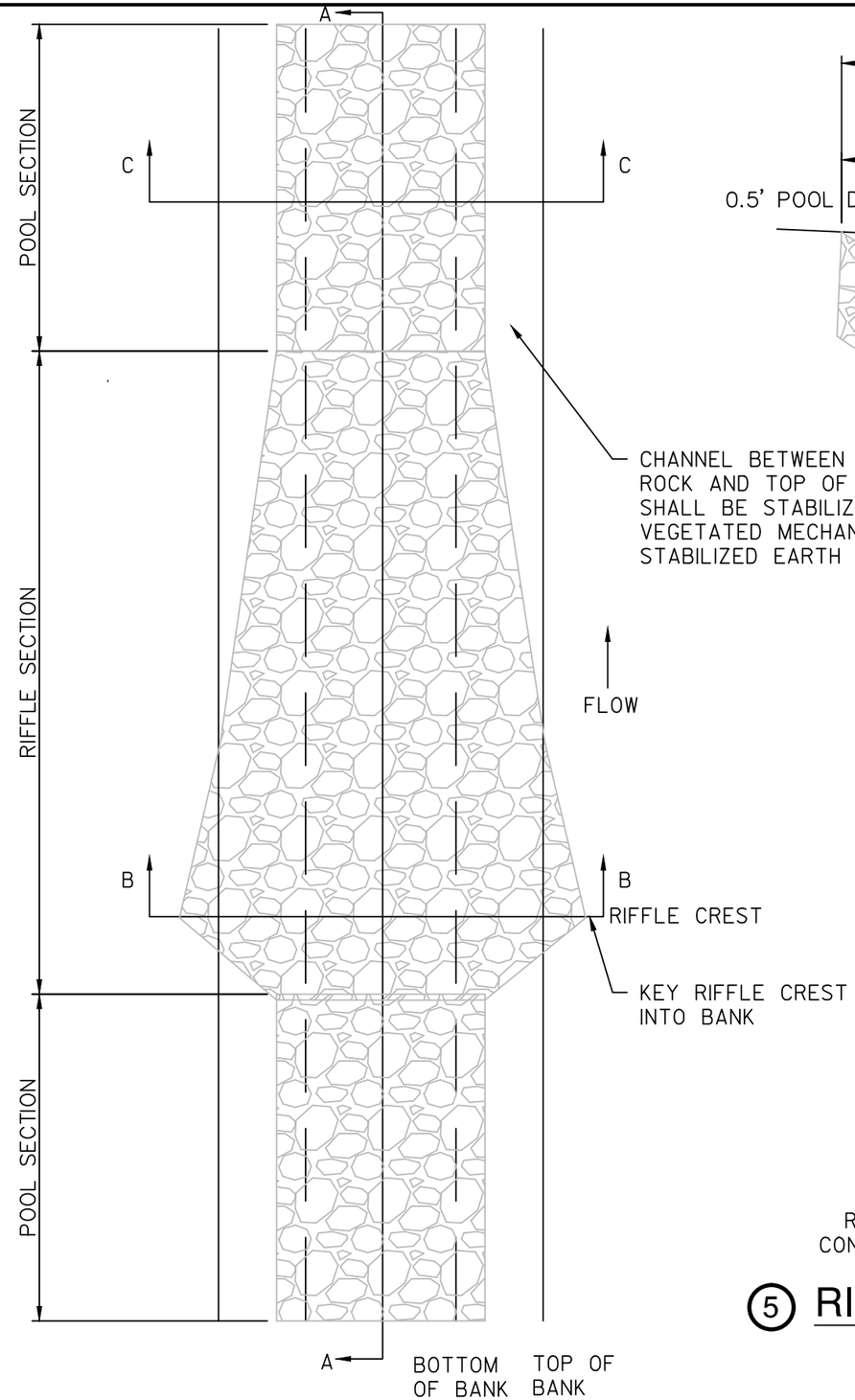
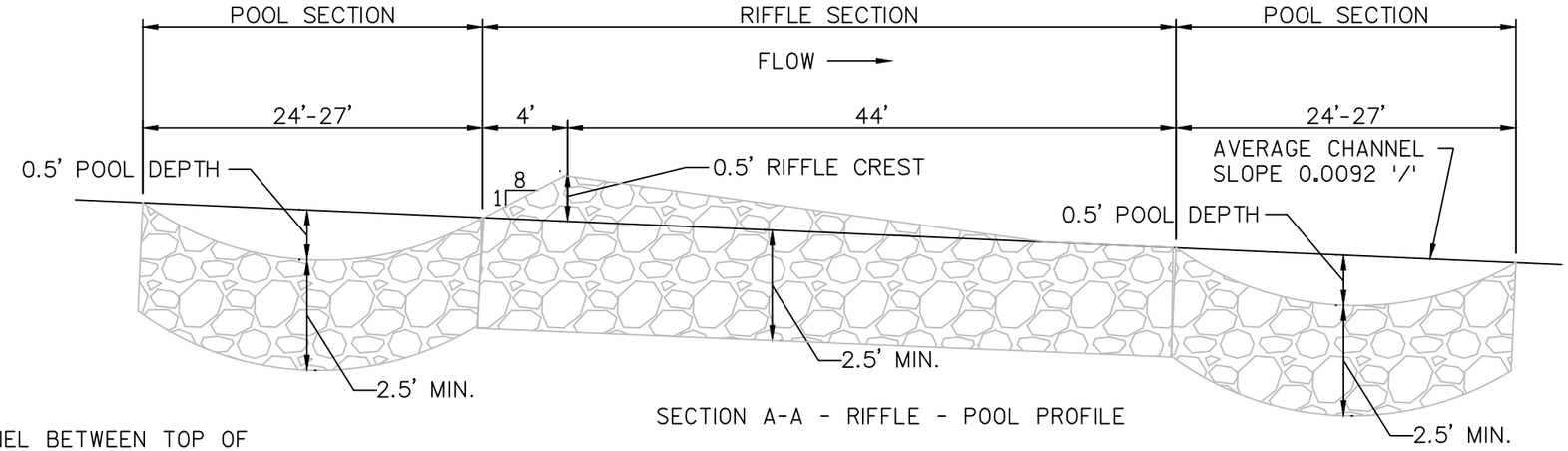
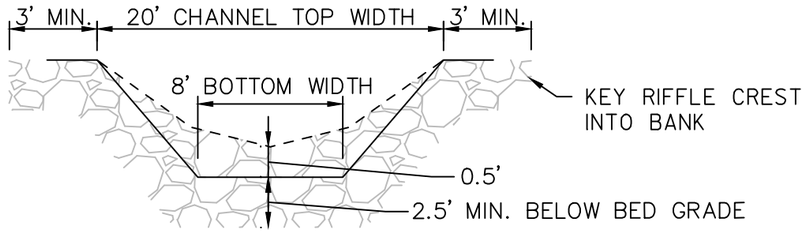
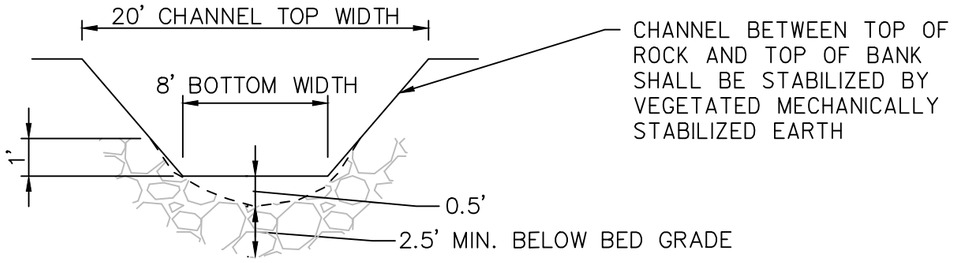




SECTION A-A - RIFFLE - POOL PROFILE



SECTION B-B - RIFFLE CREST



SECTION C-C - POOL

RIFFLES AND POOLS TO BE CONSTRUCTED OF WELL GRADED 9"-15" LIMESTONE

5 RIFFLE - POOL DETAIL

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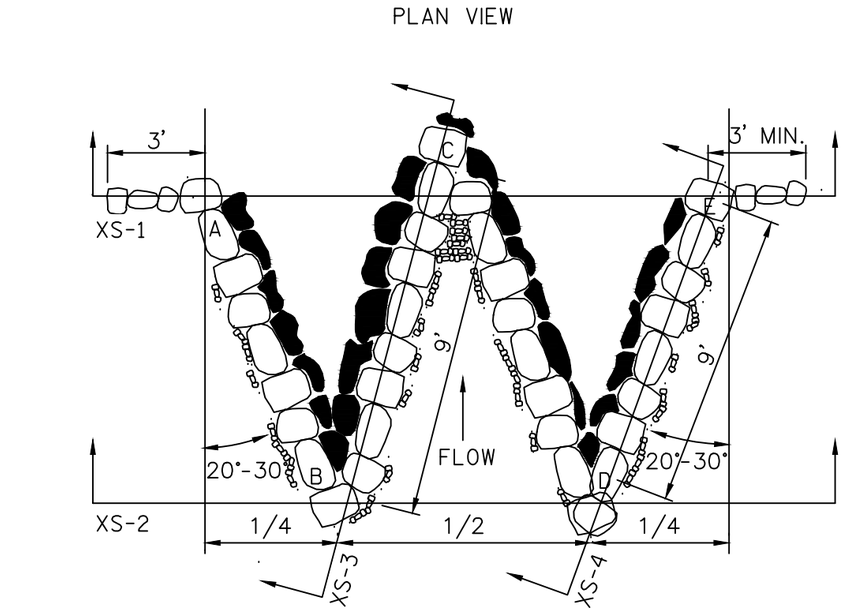
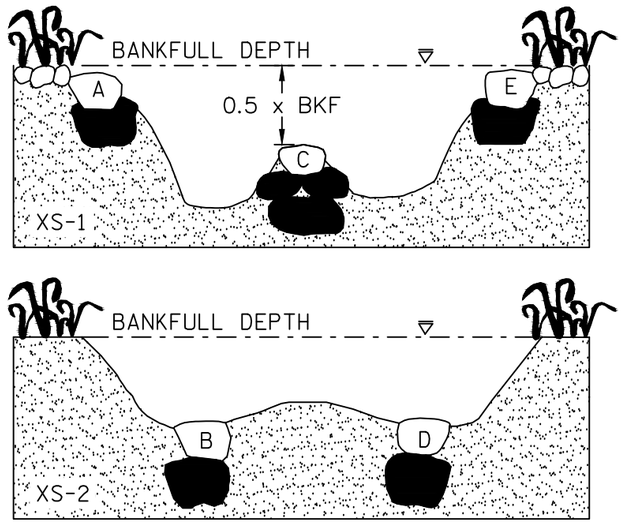
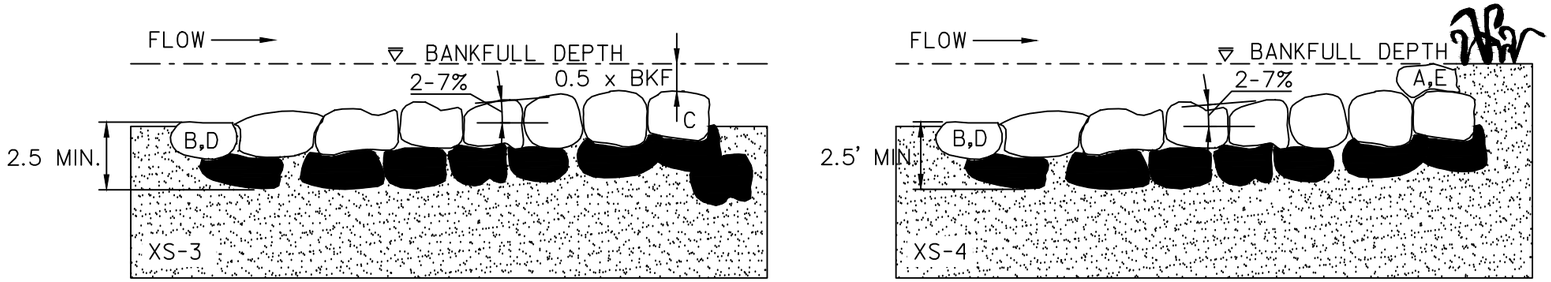
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWVIEW PARK BIOFILTER CONSTRUCTION DETAILS	APPROVED: DATE: APPROVED: DATE:	DRAWN BY: TRY CHECKED BY:	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 59 E PROJECT NO: 2015-0236





POINT	APPROXIMATE ELEVATION
A	954.6
B	954.0
C	954.3
D	954.0
E	954.6



PLAN, CROSS SECTION, AND PROFILE VIEW OF THE W-WEIR
W-WEIR SHALL BE CONSTRUCTED OF WELL GRADED, 9"-15" LIMESTONE

④ W-WEIR

N.T.S.

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWVIEW PARK BIOFILTER CONSTRUCTION DETAILS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: TRY CHECKED BY: _____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 60 E PROJECT NO: 2015-0236

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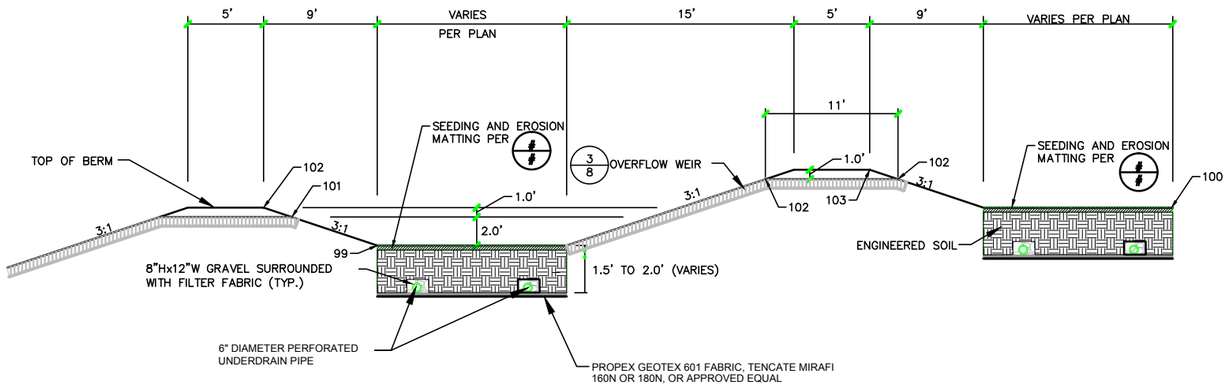
LEGEND

SEEDING AND STRAW

ENGINEERED SOIL (70-85% COARSE SAND AND 15-30% COMPOST BY VOLUME)



NOTES:

1. ELEVATIONS SHOWN ARE RELATIVE.

2. VARY DEPTH OF ENGINEERED SOIL LAYER BASED ON SLOPE OF UNDERDRAIN SYSTEM AS SHOWN ON PLANS AND IN BIO-FILTRATION BASIN DATA TABLE.

1 BIO-FILTRATION TYPICAL SECTION E-1, E-2, W-1, W-2

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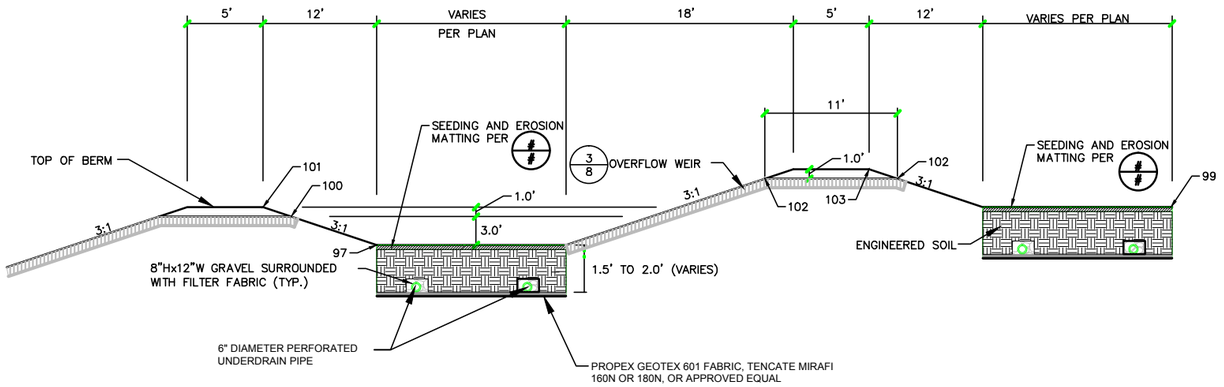

NOTES:

1. ELEVATIONS SHOWN ARE RELATIVE.

2. VARY DEPTH OF ENGINEERED SOIL LAYER BASED ON SLOPE OF UNDERDRAIN SYSTEM AS SHOWN ON PLANS AND IN BIO-FILTRATION BASIN DATA TABLE.

2 BIO-FILTRATION TYPICAL SECTION W-3, W-4, W-5, E-3, E-4, E-5

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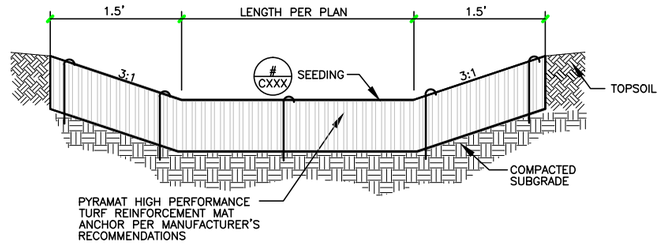

NOTES:

1. LENGTH PER PLANS

3 BIO-FILTRATION OVERFLOW WEIR

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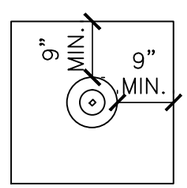
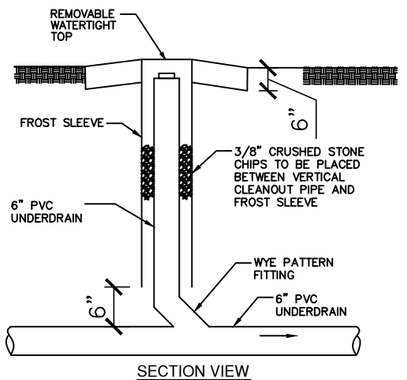


PLAN VIEW



SECTION VIEW

4 CLEANOUT DETAIL

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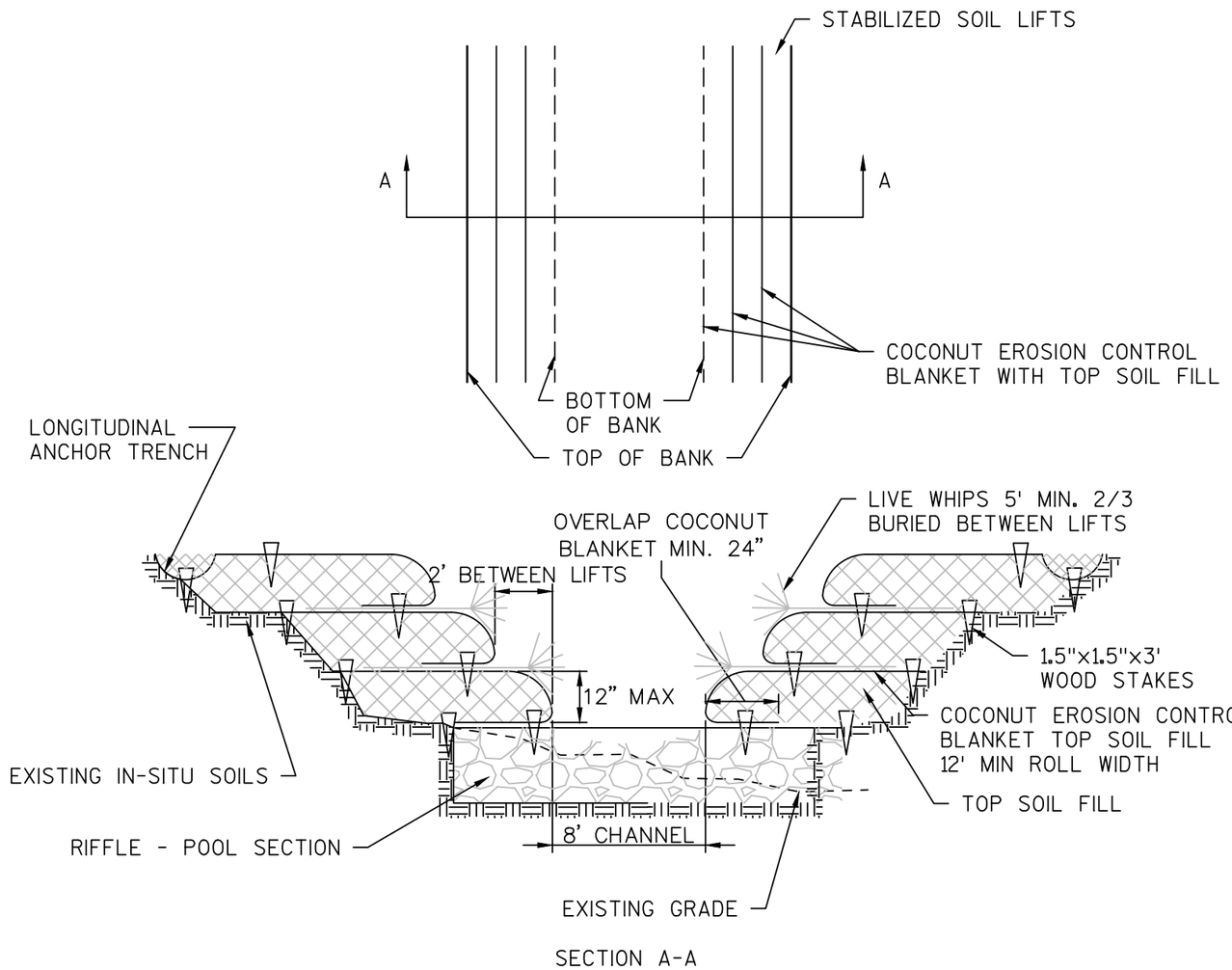
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWVIEW PARK BIOFILTER CONSTRUCTION DETAILS	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: TRY CHECKED BY:____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 61 E PROJECT NO: 2015-0236



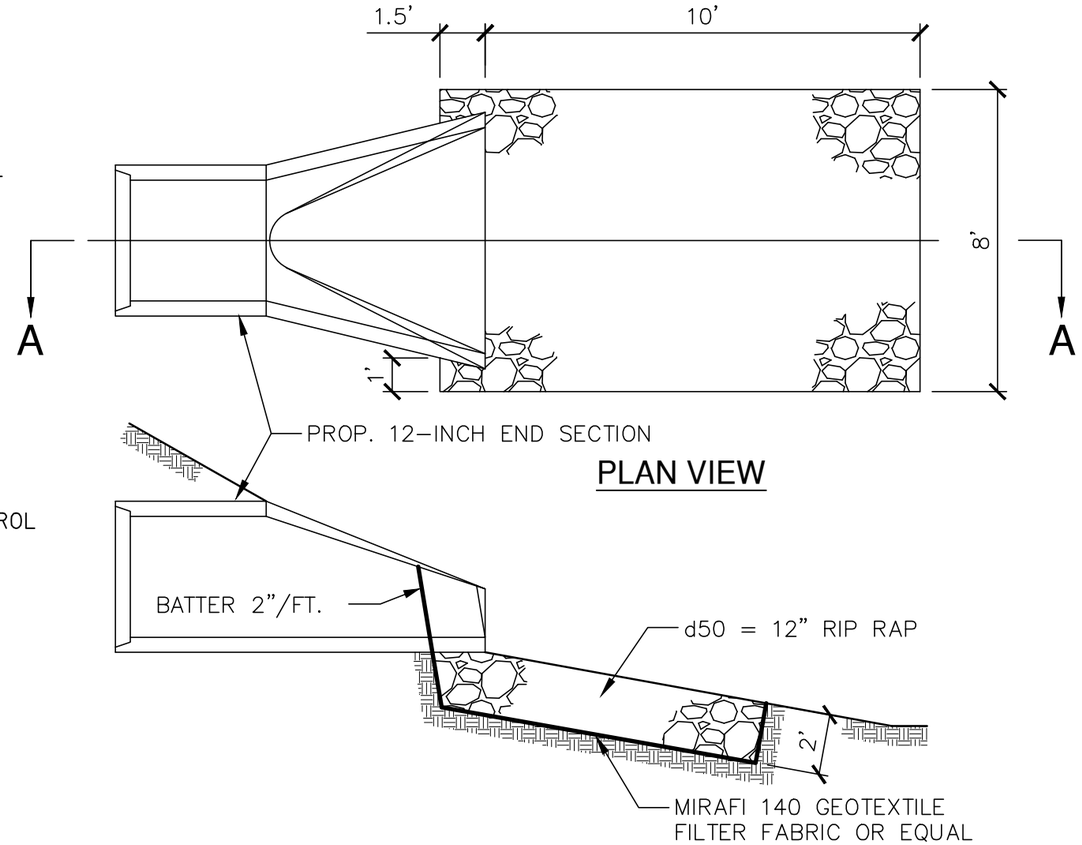
SECTION A-A

NOTES:
SOIL LIFT SHALL BE PLANTED WITH PLUGS IN ACCORDANCE WITH PLANTING PLAN

LIVE WHIPS SHALL BE IN ACCORDANCE WITH PLANTING PLAN

⑥ VEGETATED MECHANICALLY STABILIZED EARTH DETAIL

N.T.S.



PLAN VIEW

SECTION A-A

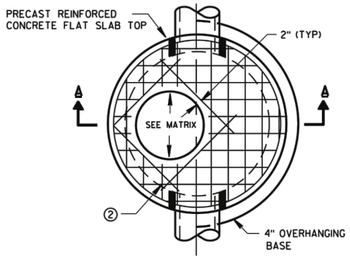
⑦ 12-INCH FLARED END SECITON AND RIPRAP OUTFALL STABILIZATION DETAIL

N.T.S.

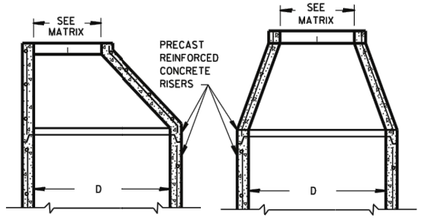
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWVIEW PARK BIOFILTER CONSTRUCTION DETAILS	APPROVED: DATE: APPROVED: DATE:	DRAWN BY: TRY CHECKED BY:	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 62 E PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015023 6\CAD\Site\dwg\00\C-00-Details-0236.dwg

8B9: Manholes 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, & 8-FT Diameter

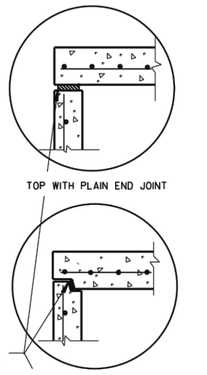


PLAN VIEW CIRCULAR OPENING

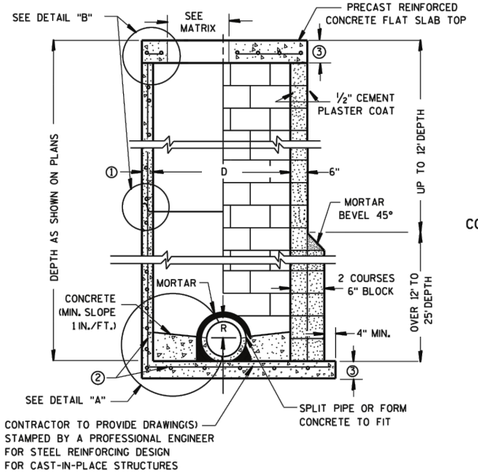


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

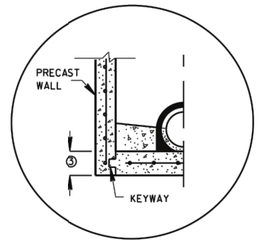


DETAIL "B"

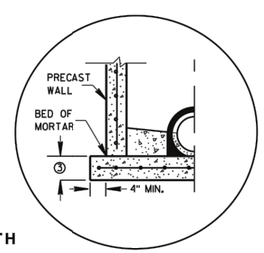


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

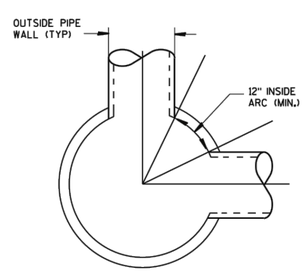


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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 GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

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

STEPS 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
6/5/2012
DATE
FHWA

/S/ Jerry M. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

S.D.D. 8 B 9-1

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

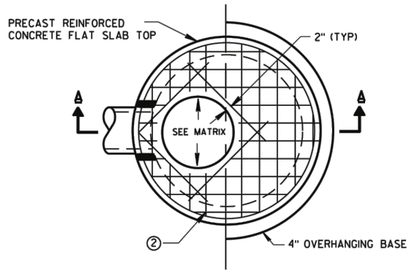
S.D.D. 8 B 9-1

NOTES
1. ALL MANHOLES SHALL BE PRECAST CONCRETE STRUCTURES. NO BLOCK MANHOLES.

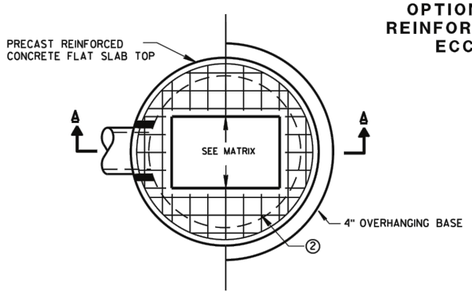
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	STORM SEWER CONSTRUCTION DETAILS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 63 E PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015O236\CAD\Site\dwg\00#C-00-Details-0236.dwg

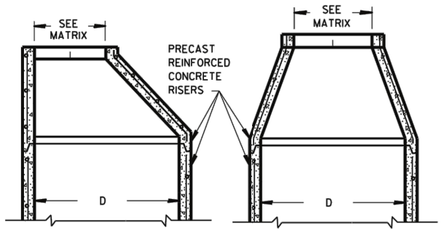
8A8: Catch Basins 3-FT, 4-FT, 5-FT & 6-FT Diameter



PLAN VIEW CIRCULAR OPENING

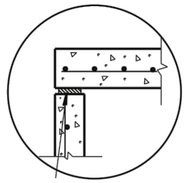


PLAN VIEW RECTANGULAR OPENING

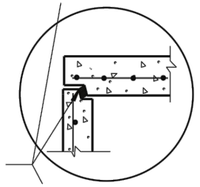


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

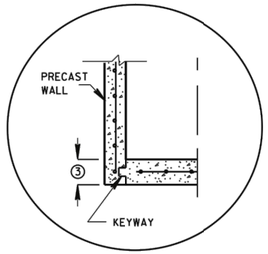


TOP WITH PLAIN END JOINT

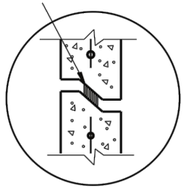


JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT

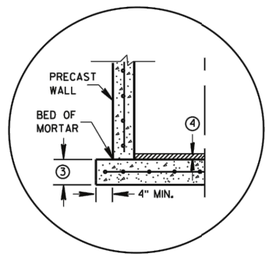


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



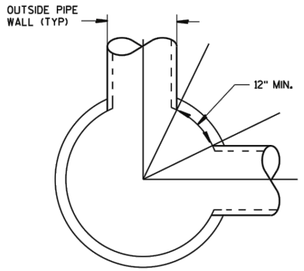
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

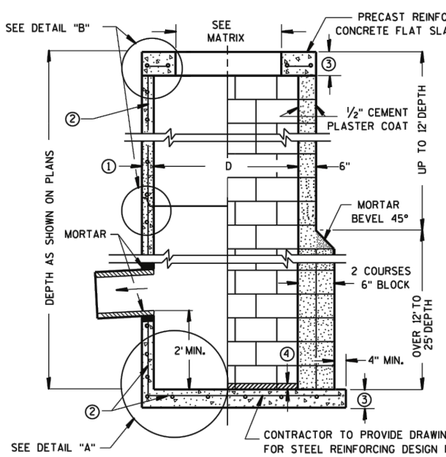


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"



SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

GENERAL NOTES

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① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS 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".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

CATCH BASIN 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	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

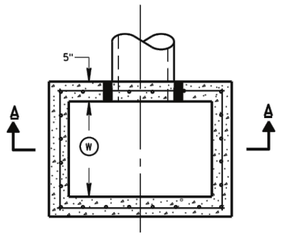
S.D.D. 8 A 8-1

NOTES
1. ALL CATCH BASINS SHALL BE PRECAST CONCRETE STRUCTURES. NO BLOCK CATCH BASINS.

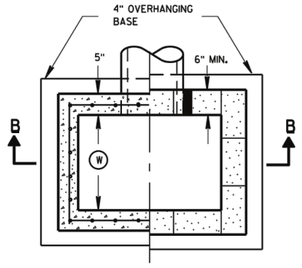
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	STORM SEWER CONSTRUCTION DETAILS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 64	E
					PROJECT NO: 2015-0236	

FILE NAME : L:\Jobs2015\2015023 6\CAD\Sht\e dwg=00\C-00-Details-0236.dwg

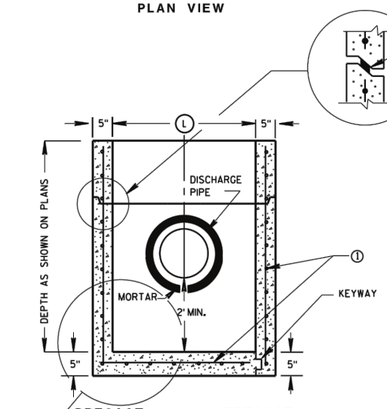
8A9: Catch Basins 2x3-FT & 2.5x3-FT



PLAN VIEW



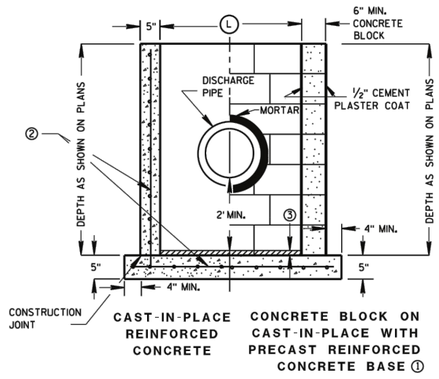
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

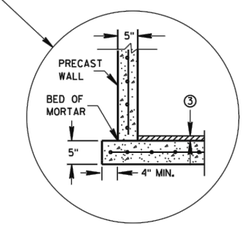
SECTION A-A



CAST-IN-PLACE REINFORCED CONCRETE

CONCRETE BLOCK ON CAST-IN-PLACE WITH PRECAST REINFORCED CONCRETE BASE 1

SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN 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 PRECAST CATCH BASIN UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES 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 GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND 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.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

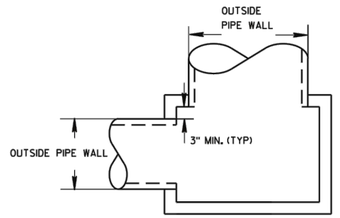
1. FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
2. CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.
3. 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 A 9-1

CATCH BASINS 2X3-FT AND 2.5X3-FT

S.D.D. 8 A 9-1

NOTES
1. ALL CATCH BASINS SHALL BE PRECAST CONCRETE STRUCTURES. NO BLOCK CATCH BASINS.

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					PROJECT NO: 2015-0236	

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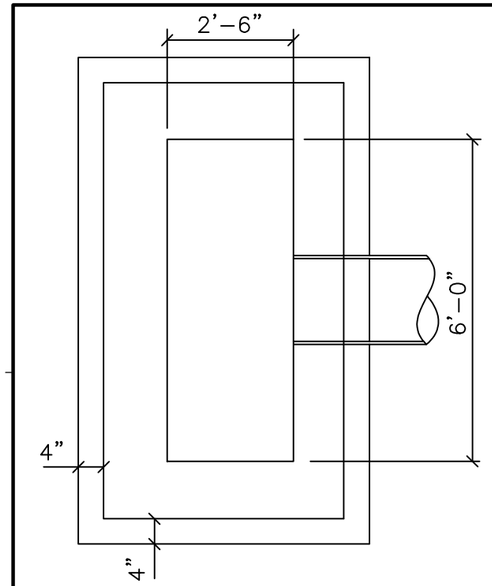
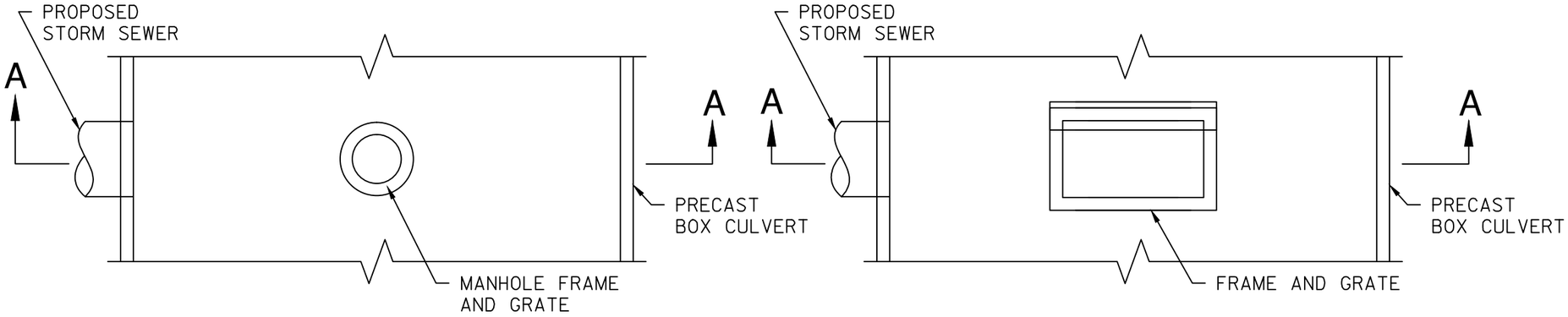
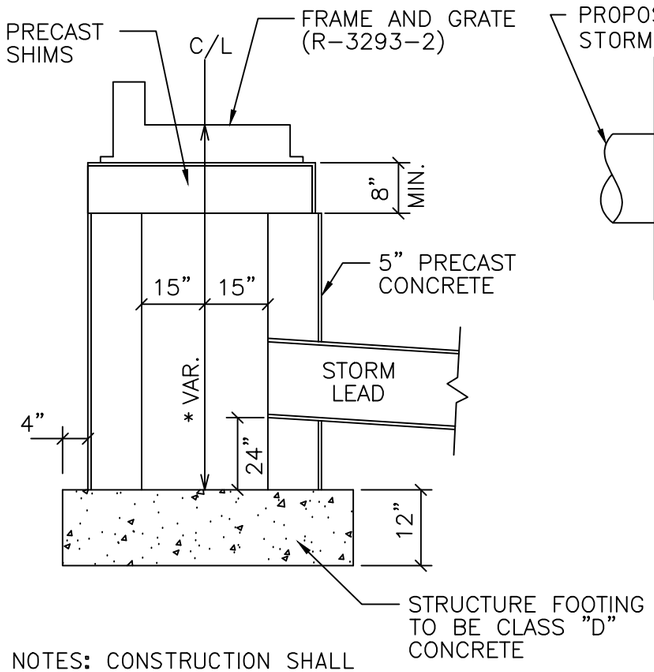


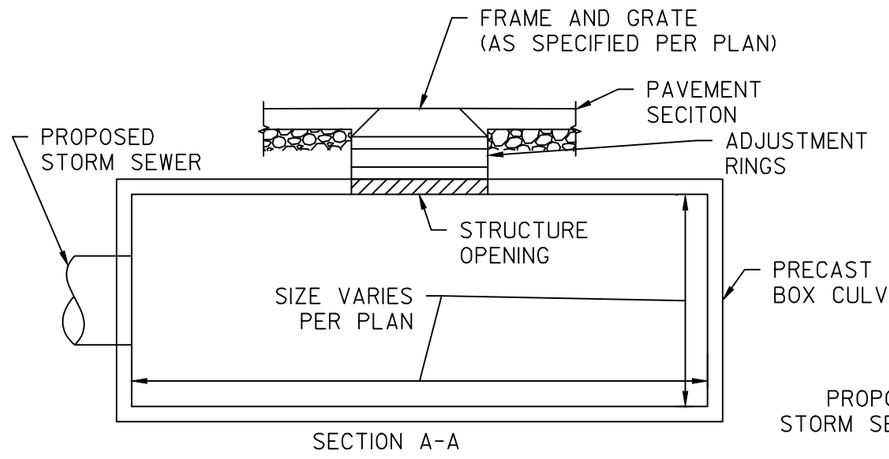




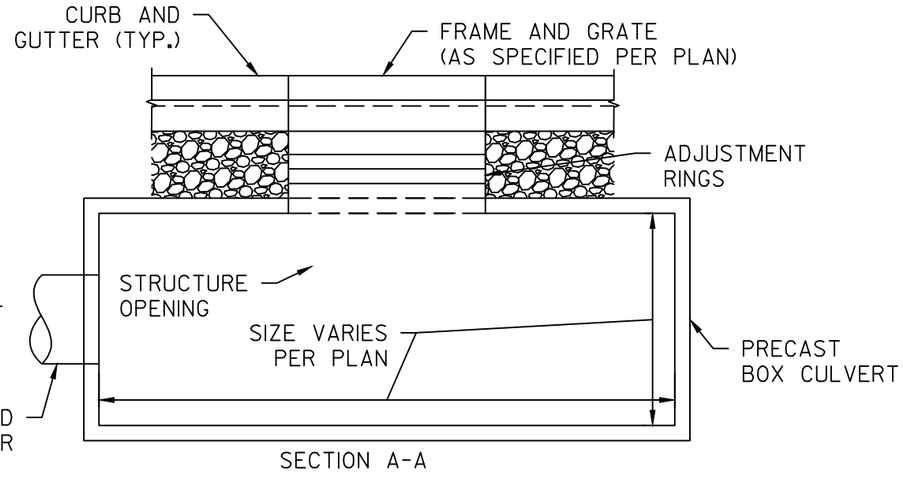
NOTES: CONSTRUCTION SHALL CONFORM TO SDD "CATCH BASINS, 2X3-FT AND 2.5X3-FT"

CATCH BASINS 2.5X6-FT

N.T.S.



SECTION A-A



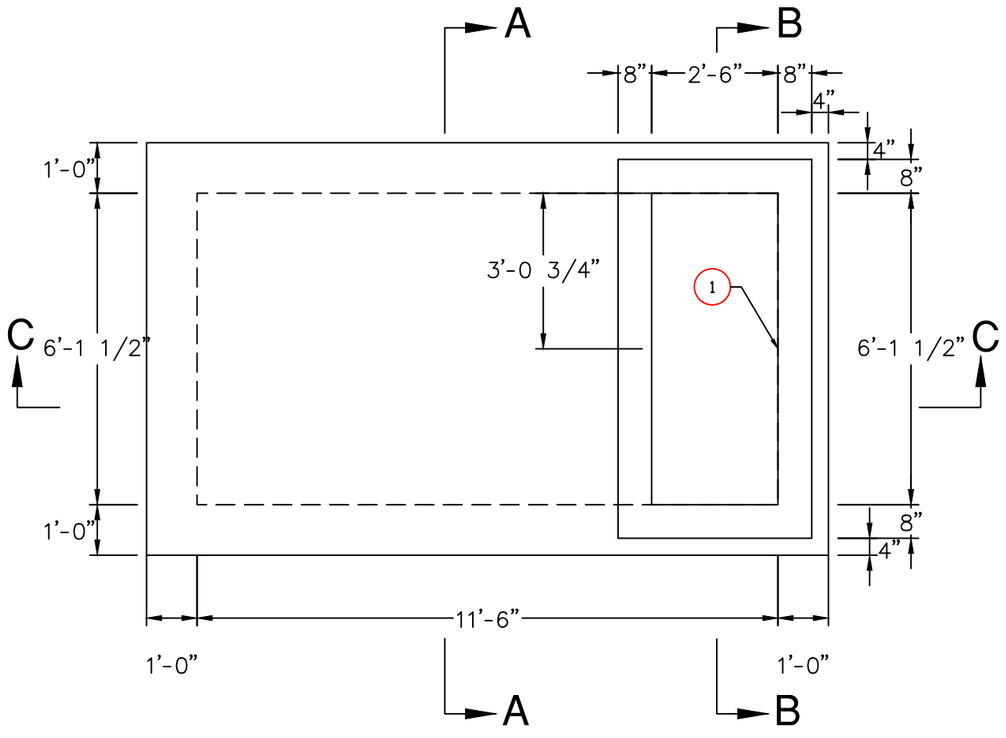
SECTION A-A

INLINE MANHOLE & INLET DETAIL

N.T.S.

NOTES:

1. MANHOLE AND INLET FRAME AND GRATE SHALL BE INSTALLED ABOVE CULVERT PIPE.
2. CONTRACTOR SHALL COORDINATE ALL PIPE CONNECTION OPENINGS AND CASTING OPENINGS WITH PRECAST BOX CULVERT MANUFACTURER. ALL CULVERT OPENINGS MUST BE APPROVED BY STATE OF WISCONSIN STRUCTURAL PROFESSIONAL ENGINEER.
3. MANHOLE FRAME AND GRATE SHALL BE INSTALLED IN THE MIDDLE OF THE CULVERT PIPE.
4. ALL INLET FRAME AND GRATES SHALL BE INSTALLED IN THE MIDDLE OF THE CULVERT PIPE.

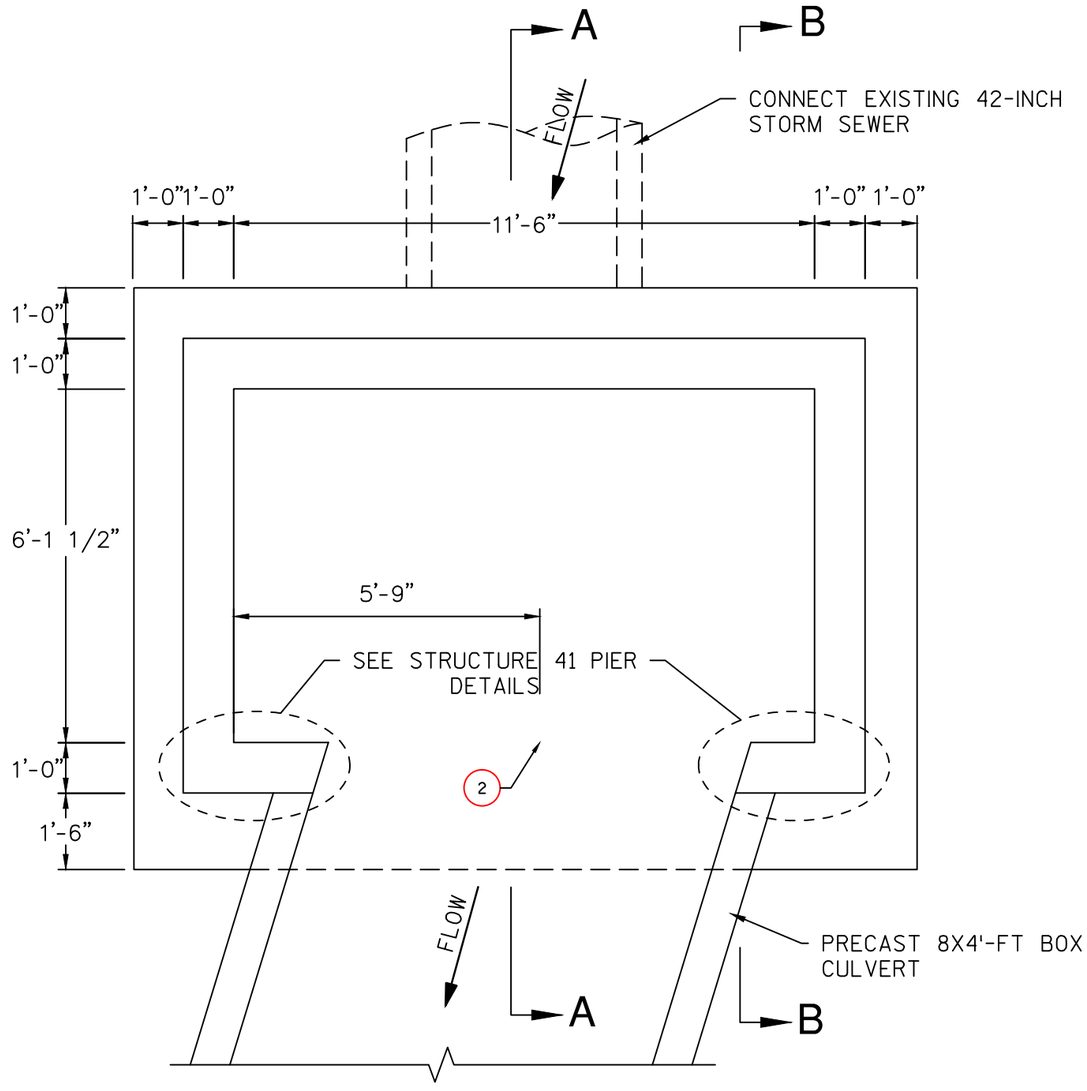


STRUCTURE 41 - TOP SLAB DETAIL

N.T.S.

NOTES

1. STRUCTURE 41 STATION AND OFFSET AT BACK OF CURB IS AS FOLLOWS
   STA. XXX+XX OFF. XX.XX



STRUCTURE 41 - BASE SLAB PLAN

N.T.S.

NOTES

1. STRUCTURE 41 STATION AND OFFSET AT INSIDE FACE OF STRUCTURE AT CENTER OF 8'X4' BOX CULVERT CONNECTION IS AS FOLLOWS
   STA. XXX+XX OFF.XX.XX'

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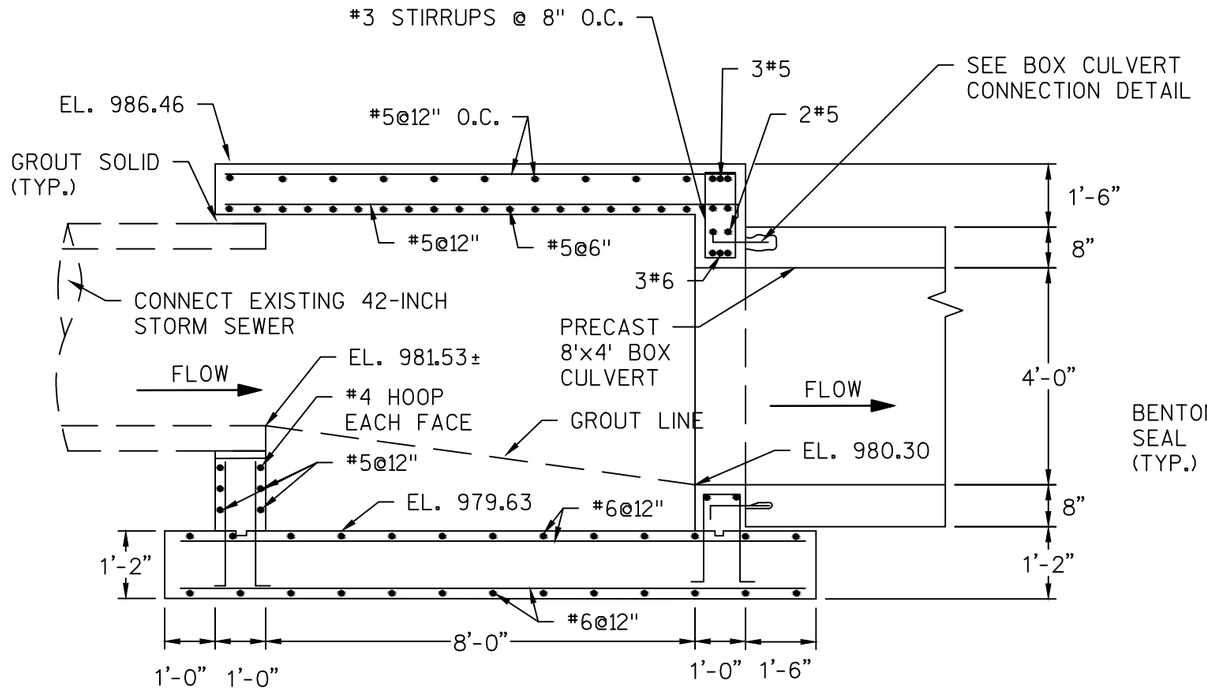
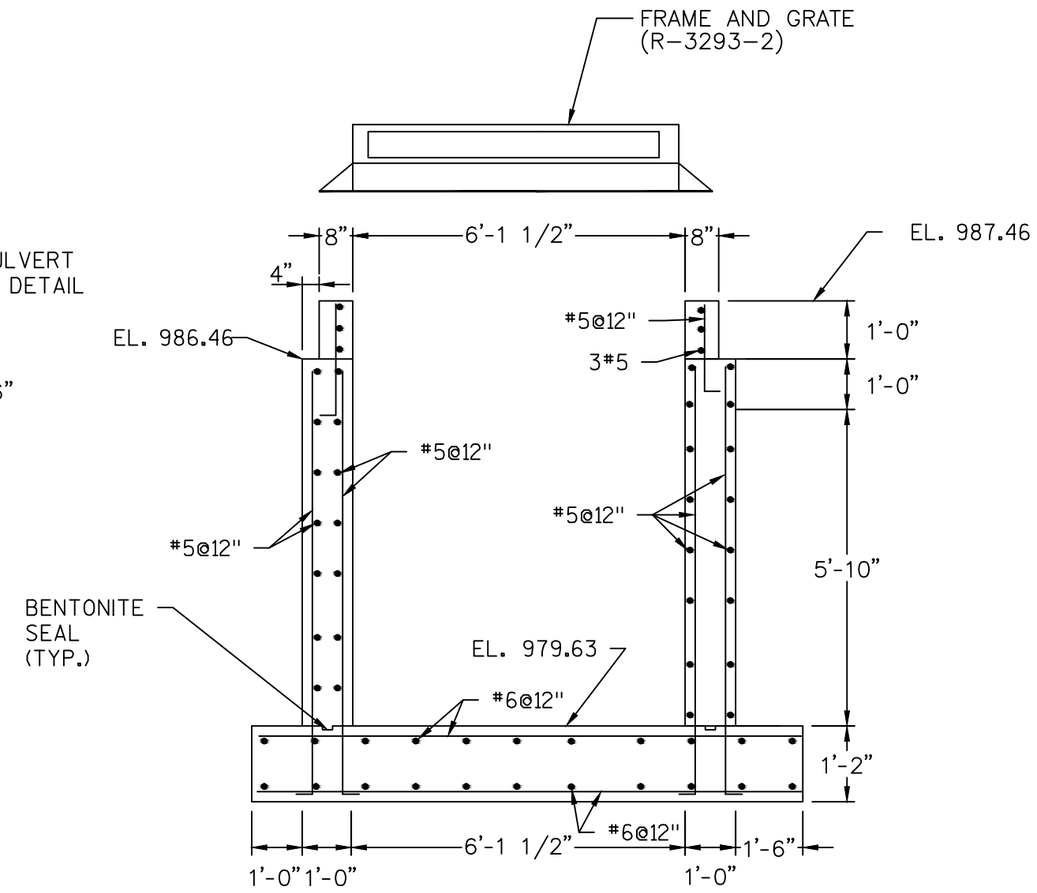


STRUCTURE 41 - SECTION A-A

N.T.S.

NOTES

1. CONTRACTOR SHALL GROUT FLOW LINES AND FILLETS WITHIN STRUCTURE.



STRUCTURE 41 - SECTION B-B

N.T.S.

NOTES

1. RIM ELEVATION FOR STRUCTURE 41 IS AT FLOW LINE/FACE OF CURB. SEE STORM SEWER PLAN AND PROFILE SHEET FOR CASTING ELEVATION.

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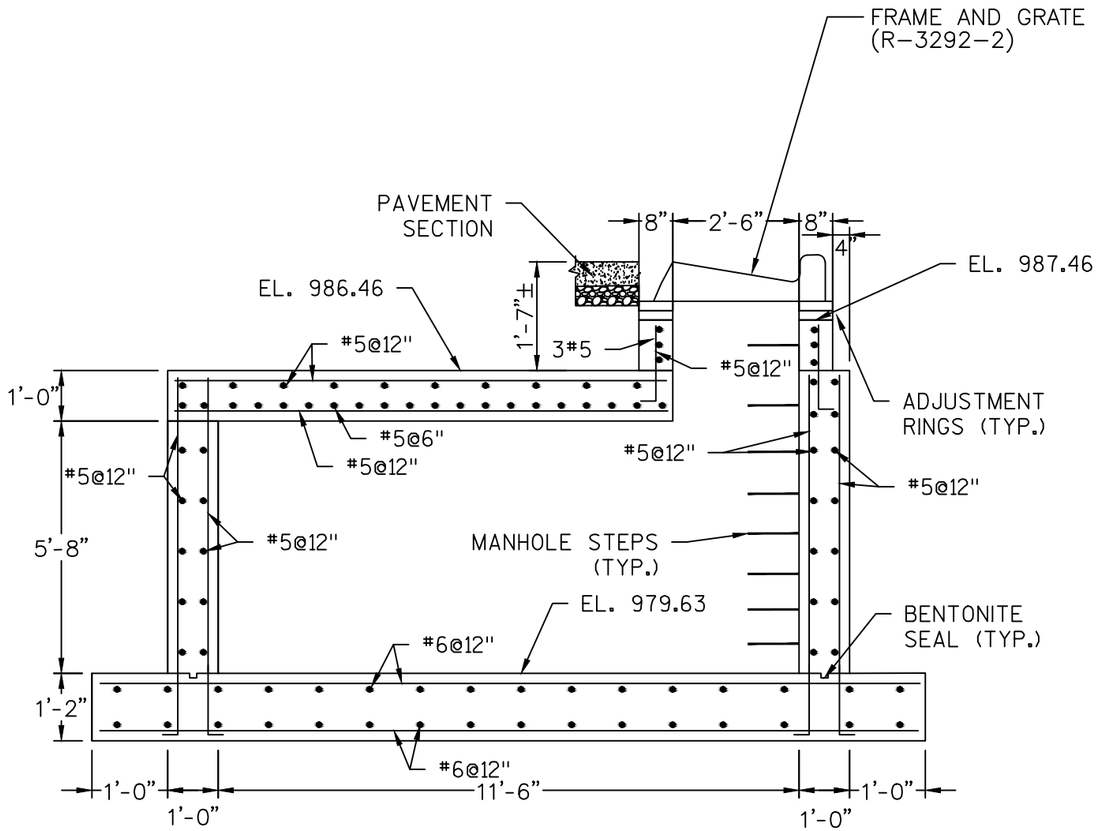
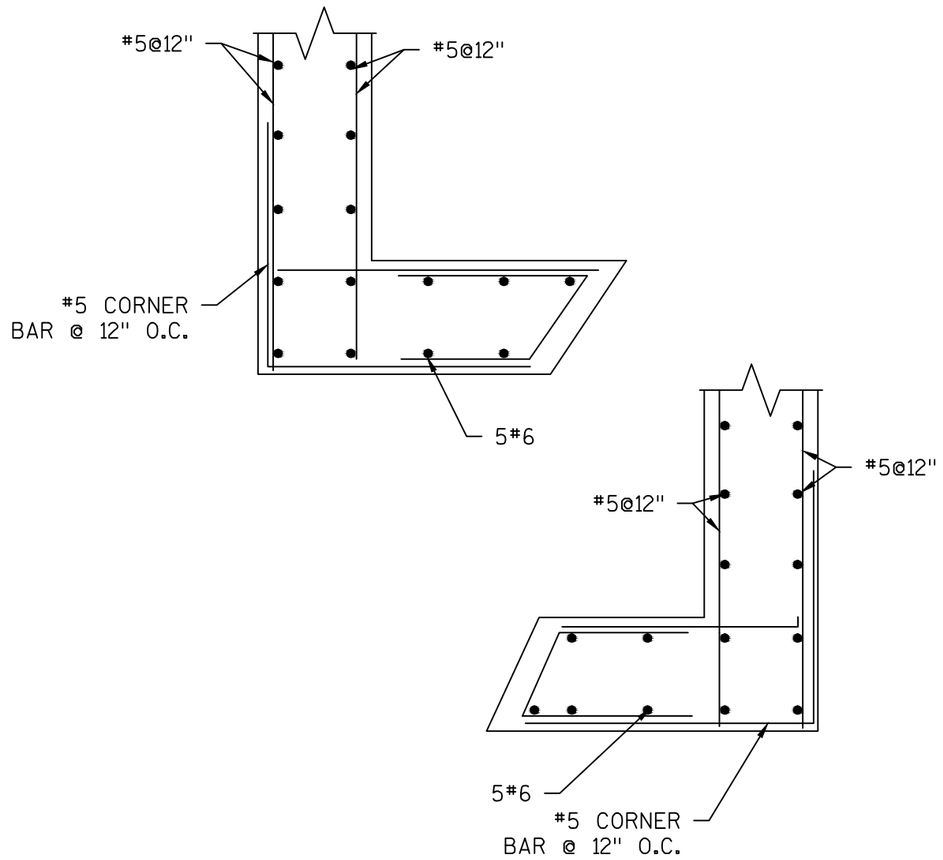


STRUCTURE 41 - SECTION C-C

N.T.S

NOTES

1. MANHOLE STEPS SHALL BE INSTALLED AS SPECIFICED.



STRUCTURE 41 - PIER DETAIL

N.T.S

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	STORM SEWER CONSTRUCTION DETAILS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 69 E PROJECT NO: 2015-0236

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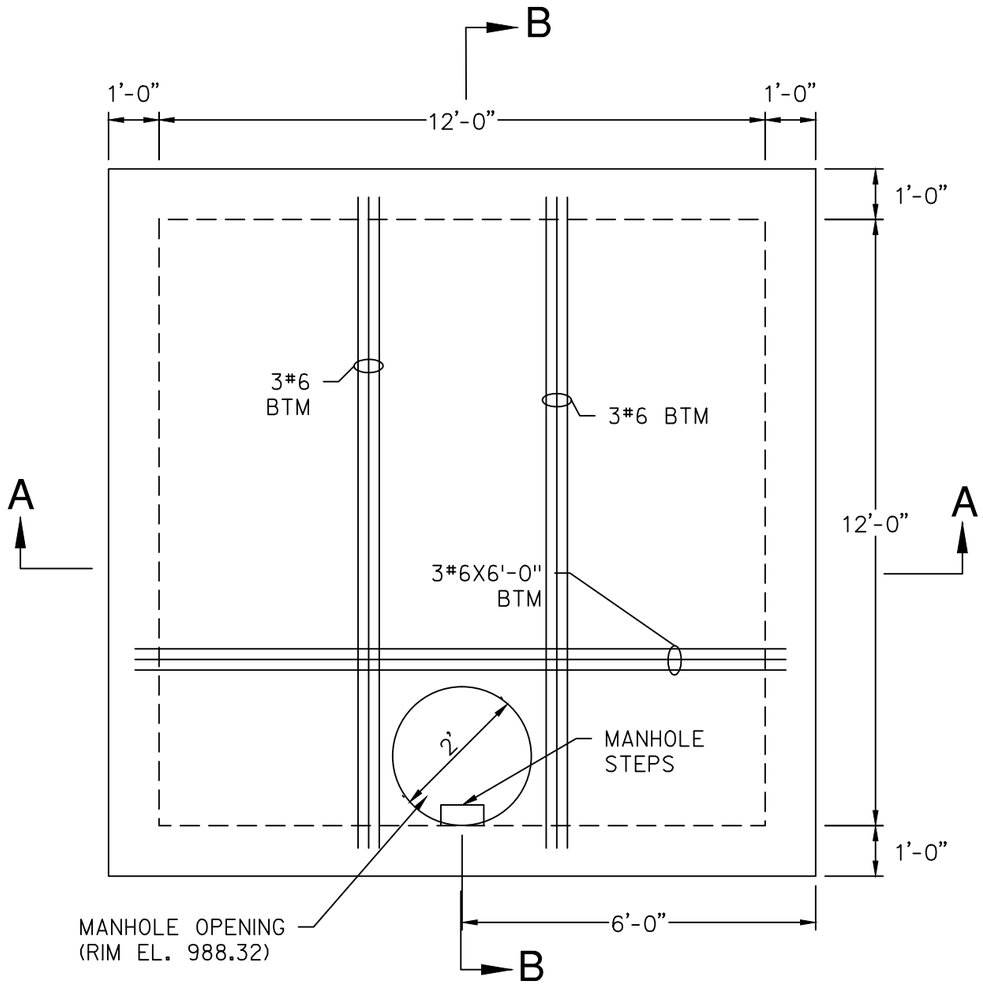
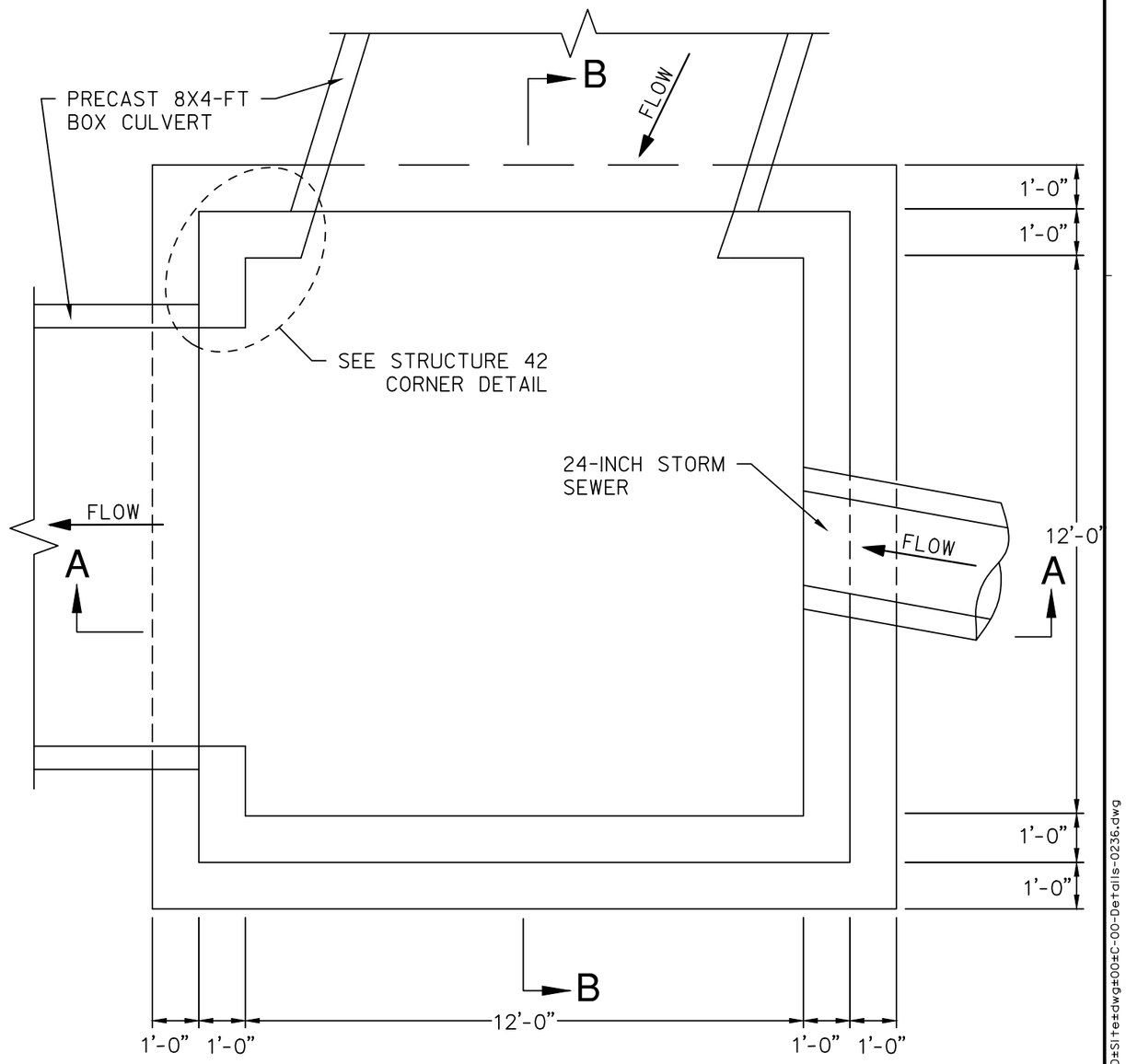


STRUCTURE 42 - TOP SLAB PLAN

N.T.S.

NOTES
1. ADD TO BOTTOM BARS
2. MANHOLE STEPS SHALL BE INSTALLED AS SPECIFIED.



STRUCTURE 42 - BASE SLAB PLAN

N.T.S.

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	STORM SEWER CONSTRUCTION DETAILS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 70 E PROJECT NO: 2015-0236

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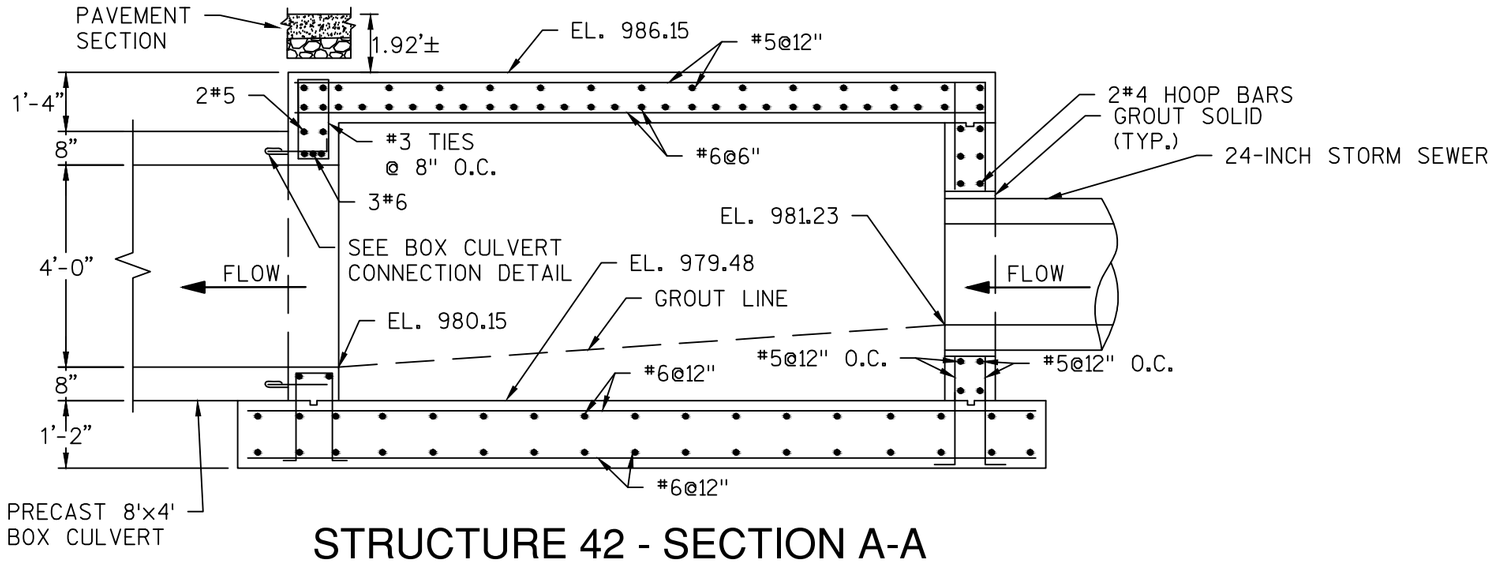
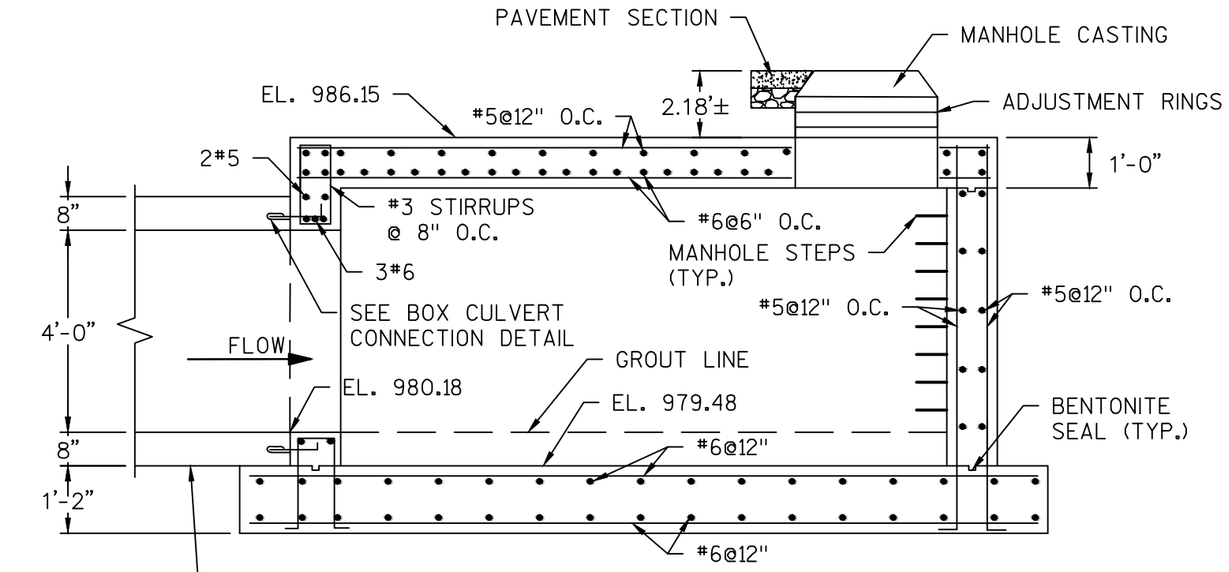


STRUCTURE 42 - SECTION A-A

N.T.S

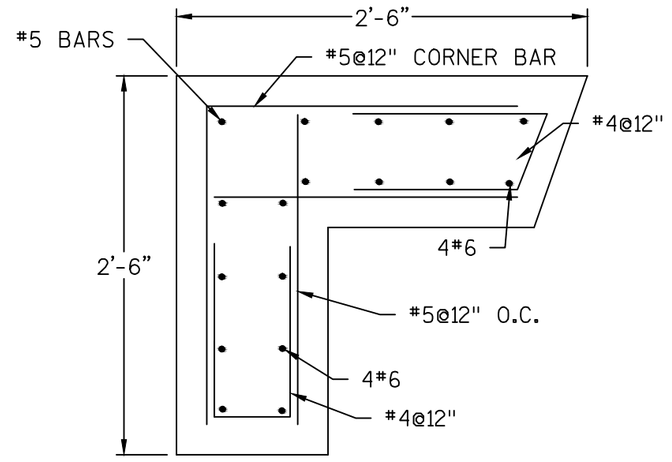
NOTES

1. CONTRACTOR SHALL GROUT FLOW LINE AND FILLETS WITHIN STRUCTURE



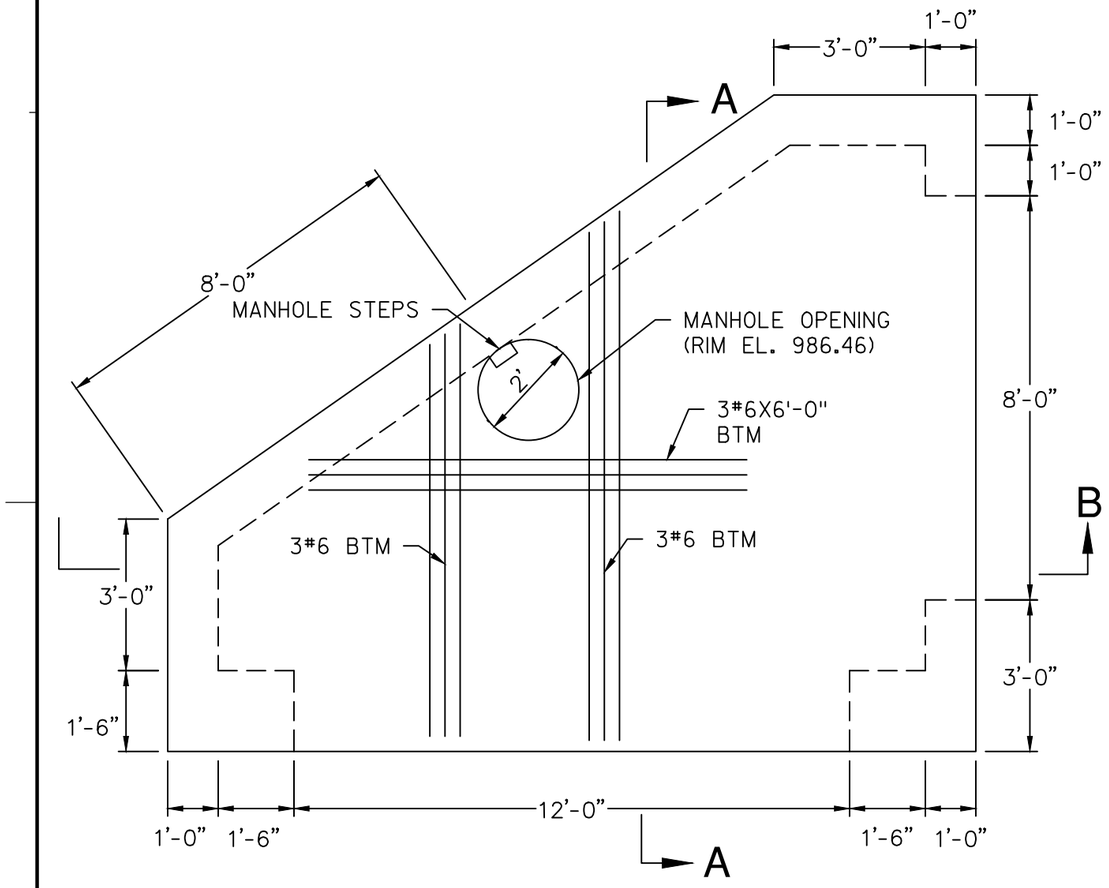
STRUCTURE 42 - SECTION B-B

N.T.S



STRUCTURE 42 - CORNER DETAIL

N.T.S

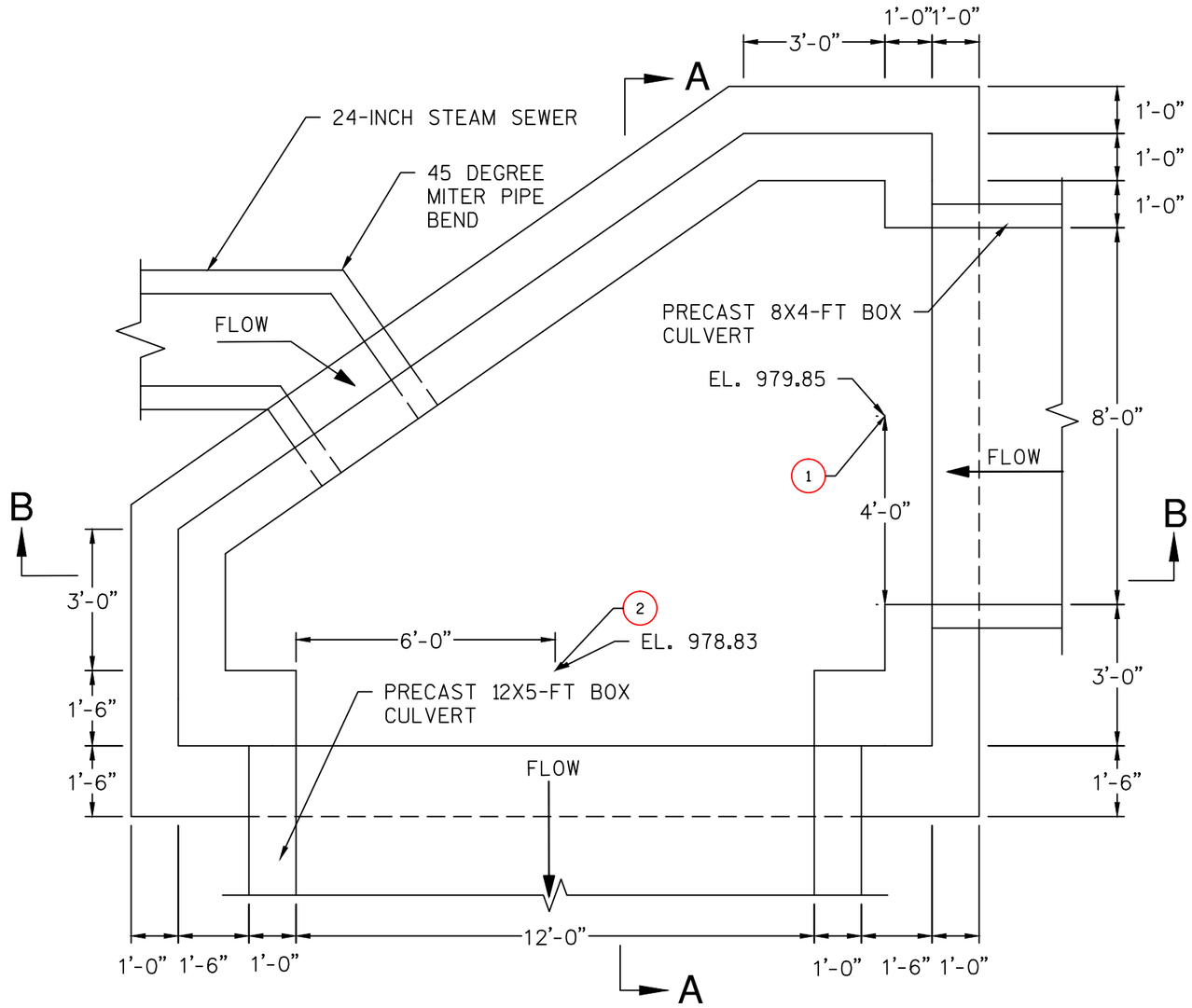


STRUCTURE 4 - TOP SLAB PLAN

N.T.S

NOTES

1. MANHOLE STEPS SHALL BE INSTALLED AS SPECIFICED.



STRUCTURE 4 - BASE SLAB PLAN

N.T.S.

NOTES

1. STRUCTURE 4 STATION AND OFFSET IS AT INSIDE FACE OF STRUCTURE AT CENTER OF 12'X4' AND 12'X5' BOX CULVERT CONNECTIONS IS AS FOLLOWS
   1. STA XXX.XX OFF. XX.XX
   2. STA XXX.XX OFF. XX.XX
2. CONTRACTOR SHALL GROUT FLOW LINE AND FILLETS WITHIN STRUCTURE.

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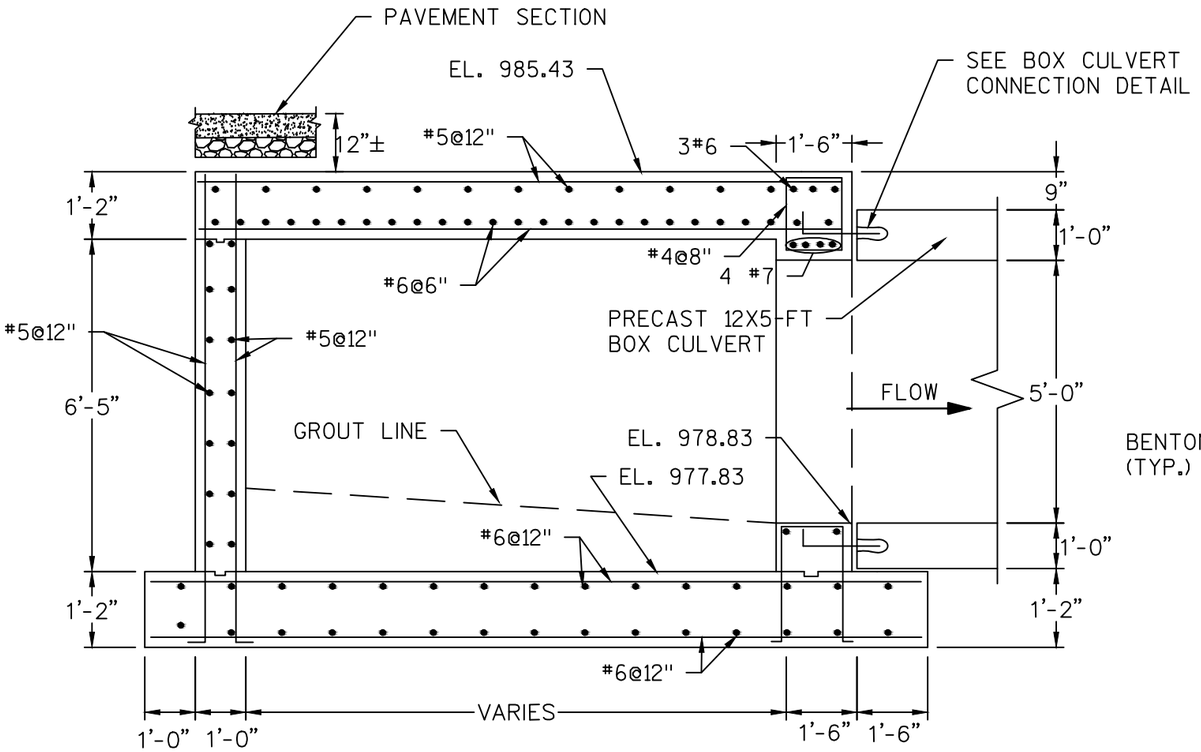
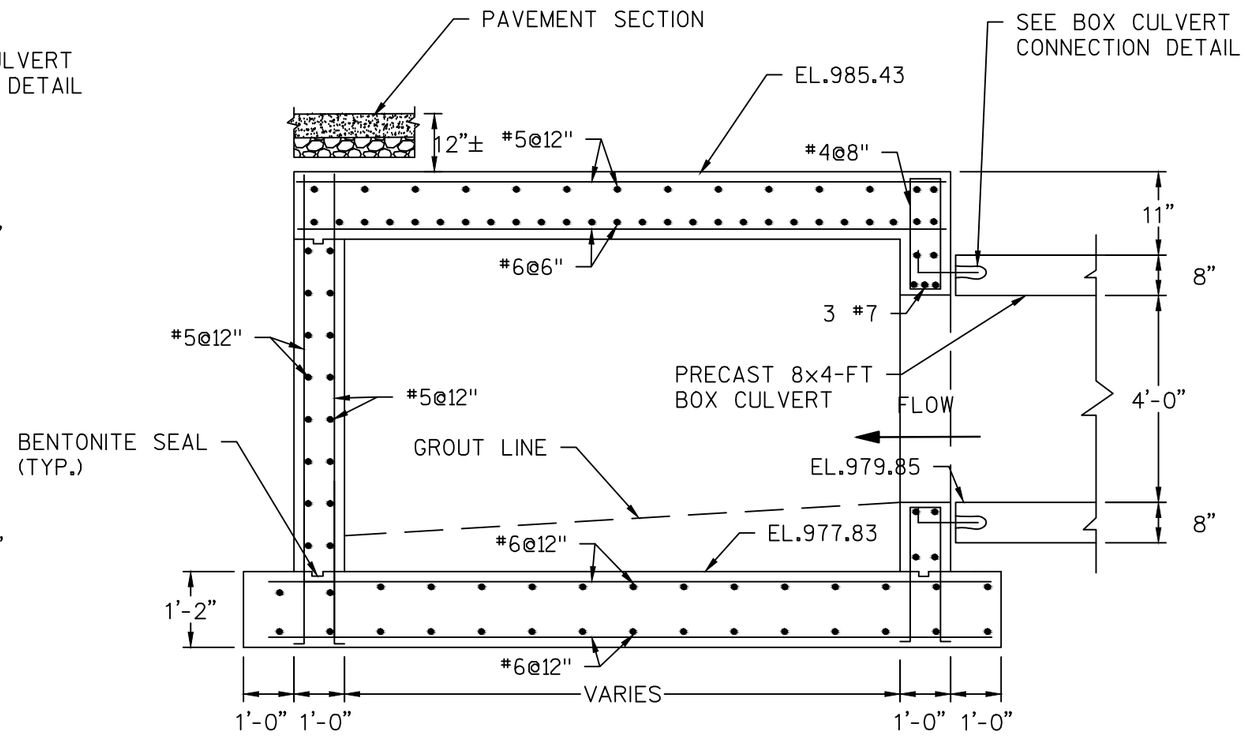


STRUCTURE 4 - SECTION A-A

N.T.S



STRUCTURE 4 - SECTION B-B

N.T.S

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	STORM SEWER CONSTRUCTION DETAILS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. **73** **E** PROJECT NO: 2015-0236

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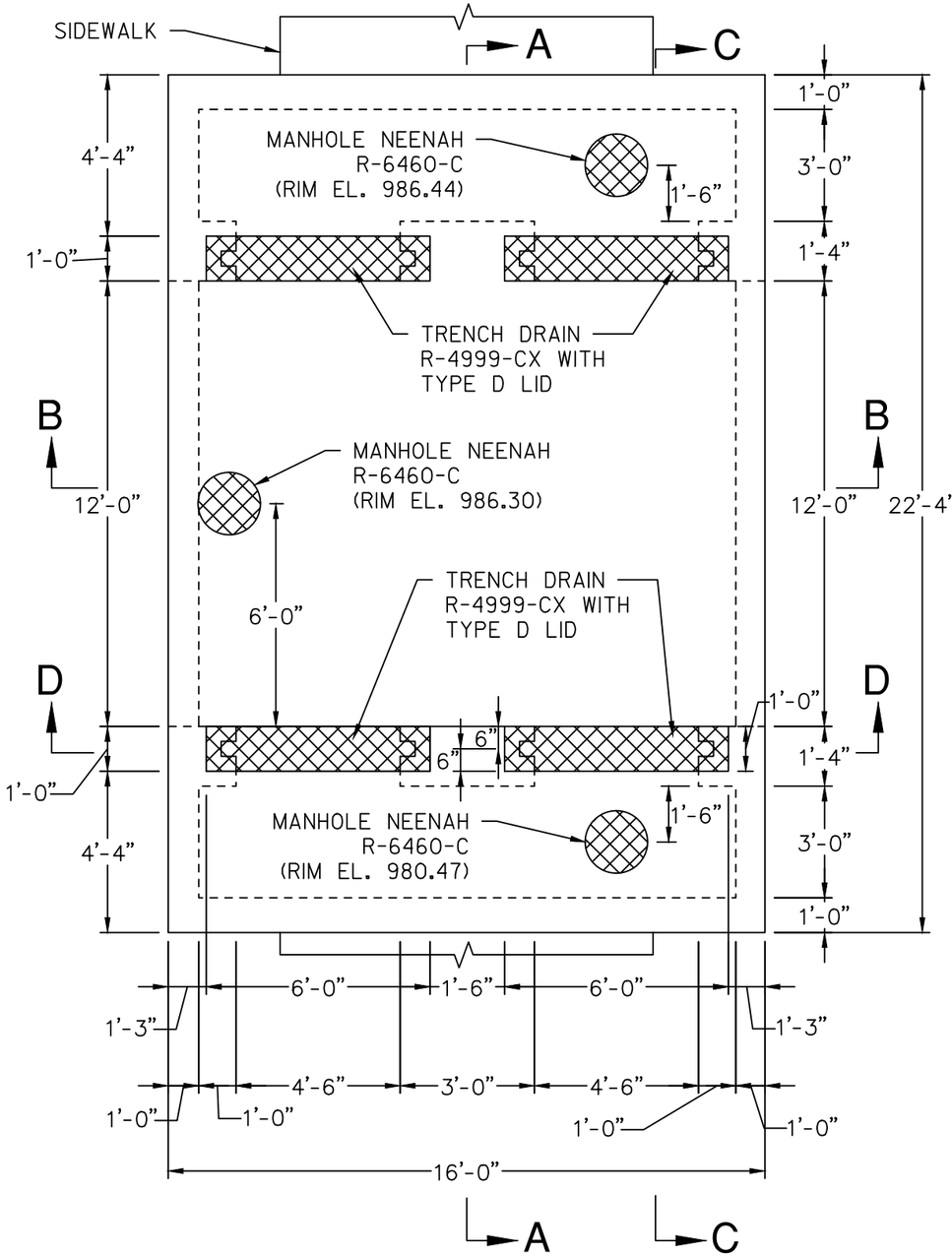
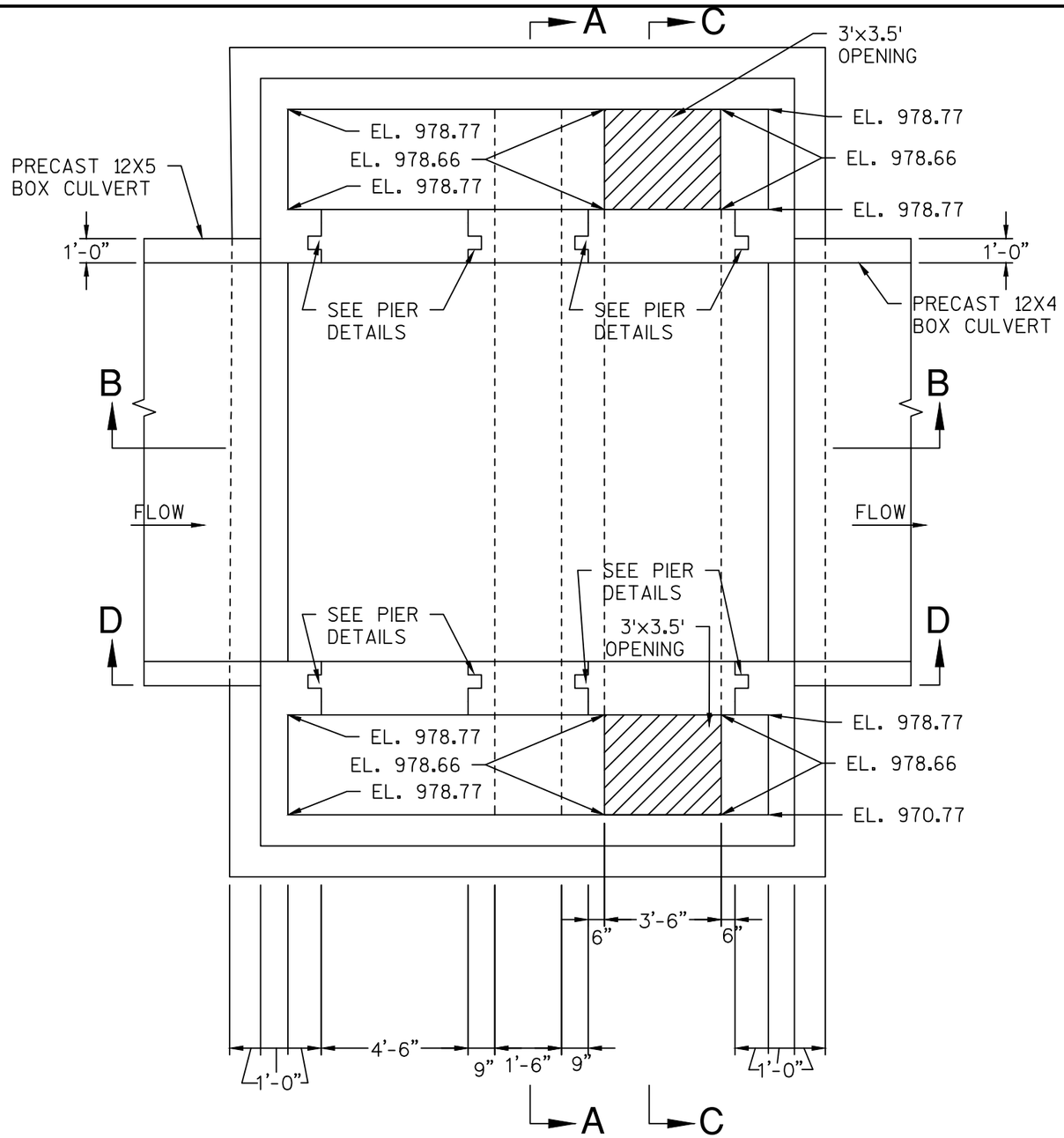


DIVERSION STRUCTURE 8-TOP SLAB PLAN

N.T.S.

NOTES:

1. TRENCH CASTING AND MANHOLE FRAME SHALL BE POURED INTO TOP SLAB SECTION. TRENCH CASTINGS SHALL MATCH SIDEWALK ELEVATIONS
2. REFER TO TYPICAL MANHOLE OPENING REBAR DETAIL FOR ALL REINFORCEMENT AT MANHOLE OPENINGS



DIVERSION STRUCTURE 8-BASE SLAB PLAN

N.T.S.

NOTES:

1. CONTRACTOR SHALL GROUT FLOW LINE TO ELEVATIONS AS INDICATED ON DRAWING.

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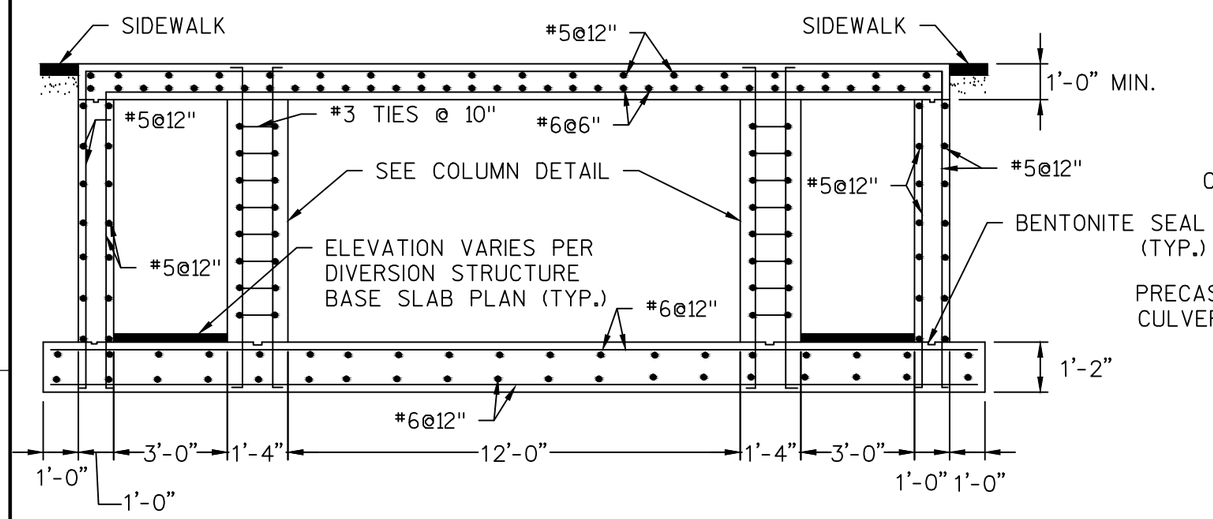
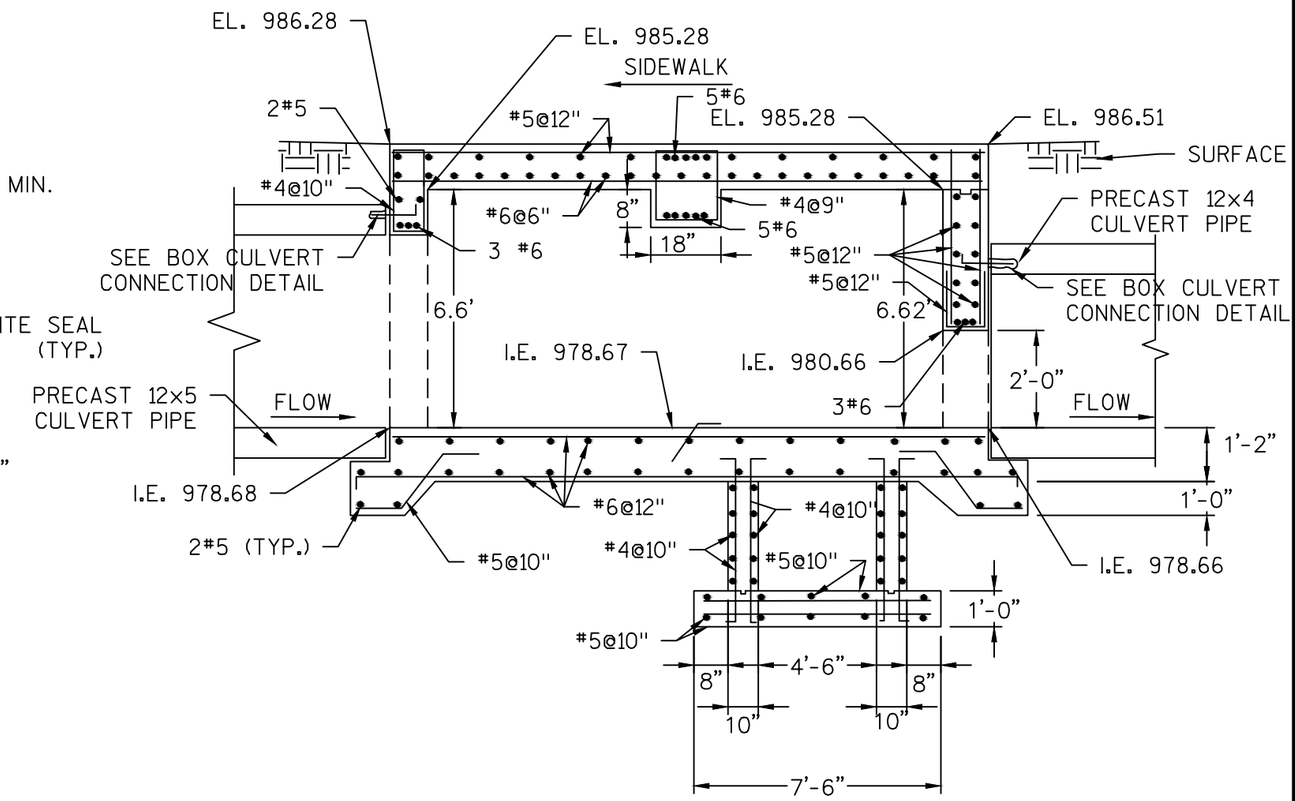


DIVERSION STRUCTURE DETAIL SECTION A-A

N.T.S.



DIVERSION STRUCTURE DETAIL SECTION B-B

N.T.S.

NOTES:

1. TOP SLAB SLOPE SHALL MATCH PROPOSED SIDEWALK SLOPE.
2. TOP SLAB THICKNESS WILL VARY PER THE ELEVATIONS PROVIDED.

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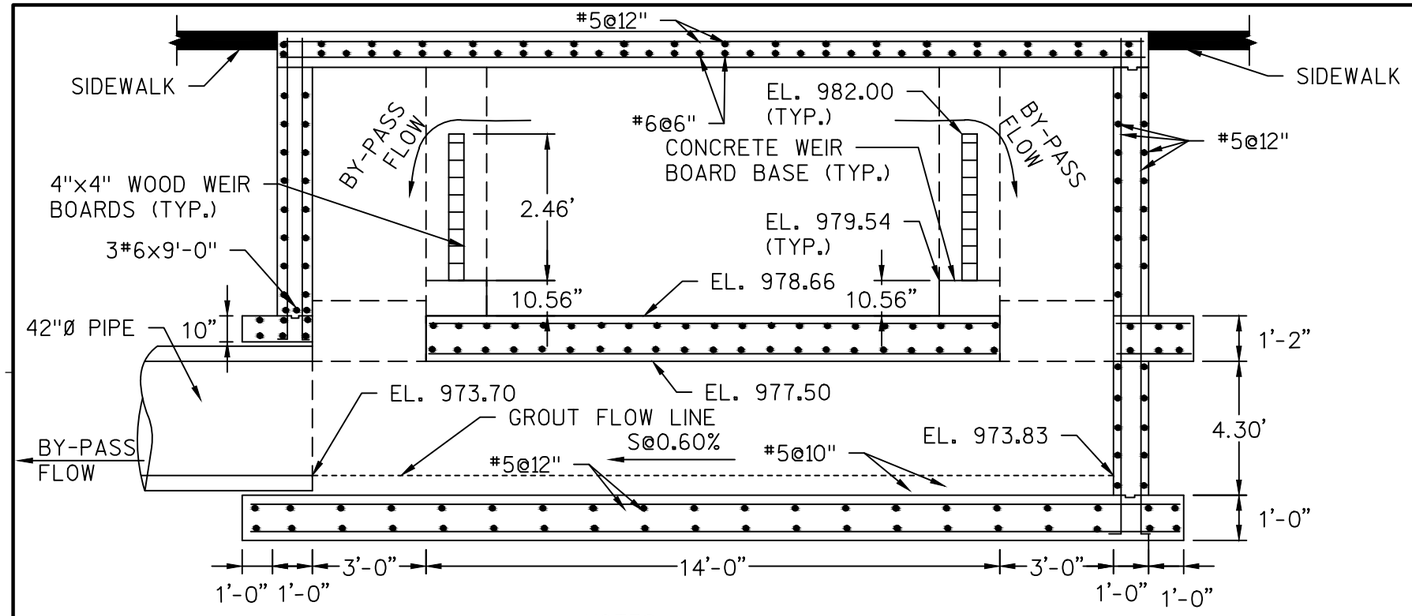
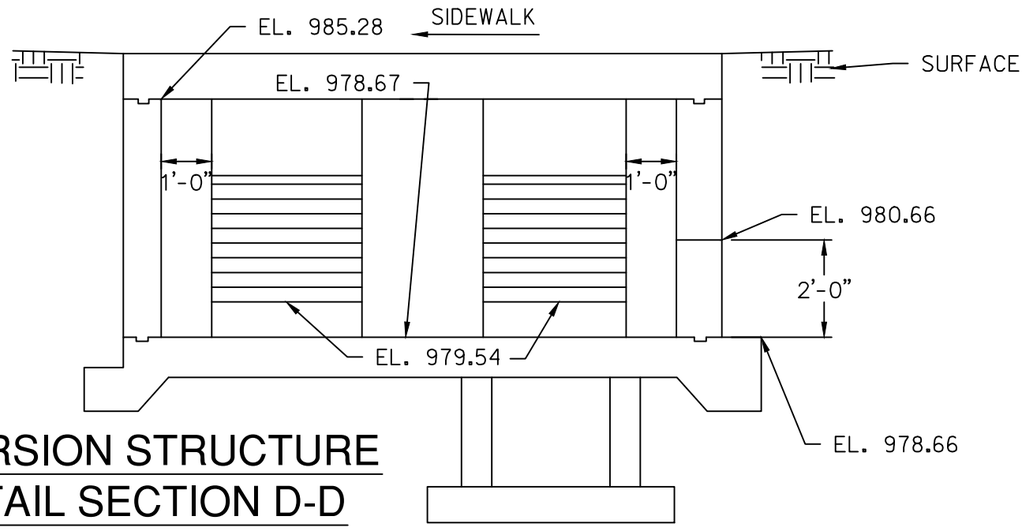


DIVERSION STRUCTURE
DETAIL SECTION C-C

N.T.S.

NOTES:

1. CONTRACTOR SHALL INSTALL WEIR BOARDS TO BE LEVEL AT ELEVATION INDICATED ON DRAWING.
2. WEIR BOARDS SHALL BE LEVEL WITH CONCRETE LEVEL BASE.
3. INSTALL (8) FULL SIZE 4"X4" BOARDS AND (1) 4"X4" WEIR BOARD TO 1.52 INCHES TALL TO REACH ELEVATION 982.00

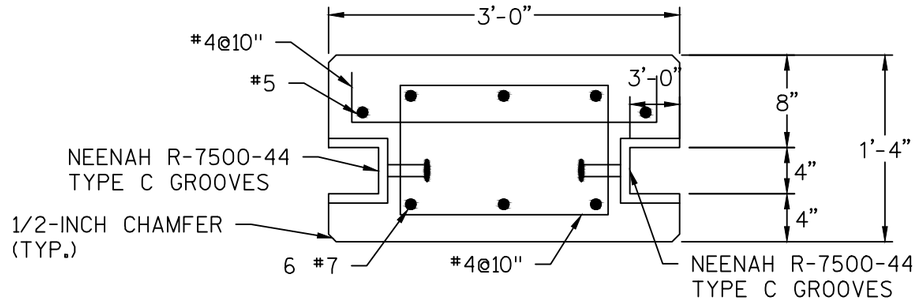


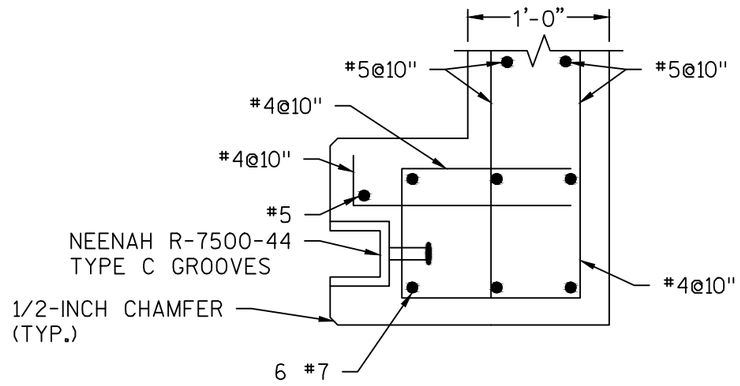
DIVERSION STRUCTURE
DETAIL SECTION D-D

N.T.S.

NOTES:

1. TOP SLAB SLOPE SHALL MATCH PROPOSED SIDEWALK SLOPE.
2. TOP SLAB THICKNESS WILL VARY PER THE ELEVATIONS PROVIDED.





DIVERSION STRUCTURE
PIER DETAILS

N.T.S.

NOTES:

1. CONTRACTOR SHALL INSTALL CAST IRON STOP PLANK GROOVES R-7500-44, TYPE C
2. CONTRACTOR SHALL PROVIDE 1/2-INCH CHAMFER ON DIVERSION STRUCTURE COLUMN POSTS

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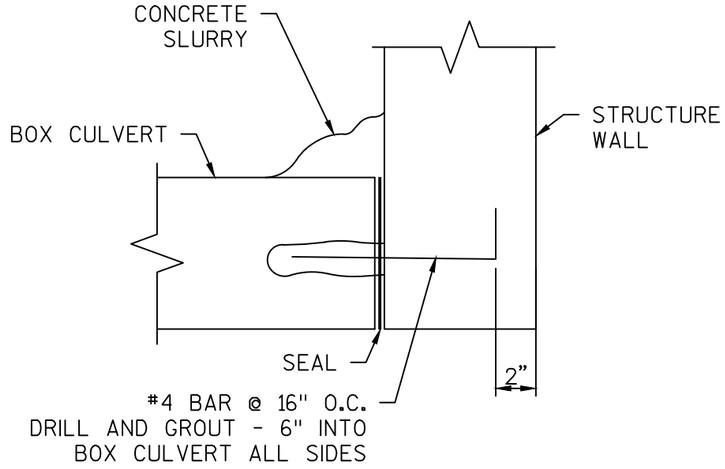
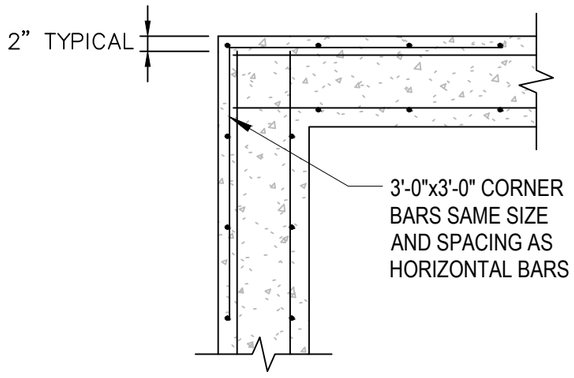


BOX CULVERT CONNECTION DETAIL

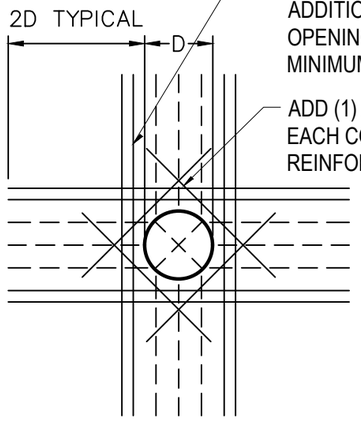
N.T.S.



TWO LAYERS OF REINFORCEMENT

TYPICAL CORNER DETAIL

N.T.S.

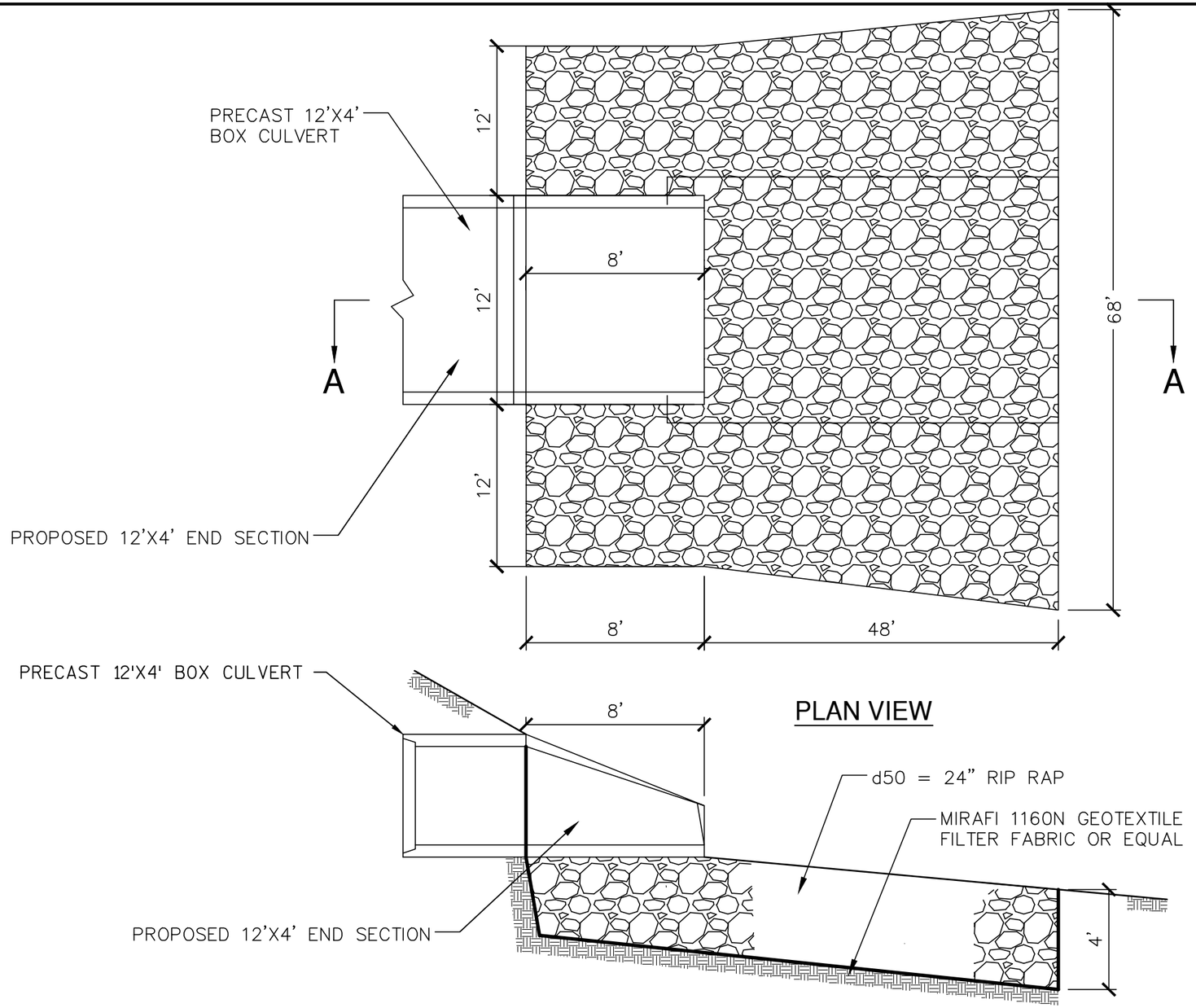


TYPICAL REBAR MANHOLE OPENING DETAIL

N.T.S.

NOTES:

1. ———— = STEEL REINFORCEMENT CONTINUOUS.
2. – — – — = STEEL REINFORCEMENT CUT.
3. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS NOTED OTHERWISE ON PLAN.
4. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
5. FOR OPENINGS 1'-0" ROUND/SQUARE OR LESS THE WALL STEEL CAN BE REPLACED WITHOUT ADDITIONAL REINFORCEMENT.



PLAN VIEW

SECTION A-A

7

12X4-FT RIPRAP OUTFALL STABILIZATION DETAIL

N.T.S.

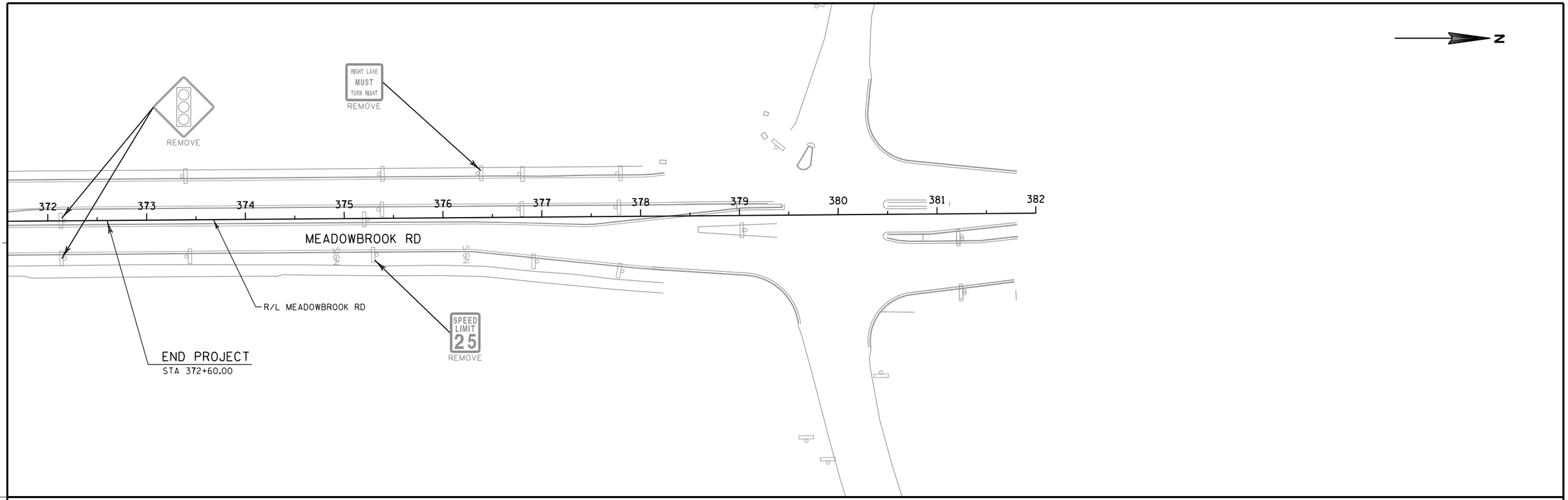
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWVIEW PARK BIOFILTER CONSTRUCTION DETAILS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: TRY CHECKED BY: ____	PLOT SCALE : AS SHOWN PLOT DATE : 7/27/2016 11:25 AM	SHEET NO. 78 E PROJECT NO: 2015-0236

FILE NAME : L:\Jobs2015\2015O236\CAD\Site\dwg\00#C-00-Details-0236.dwg

Remove one of these. Don't need two of them. Tom Heydel, Wisdot

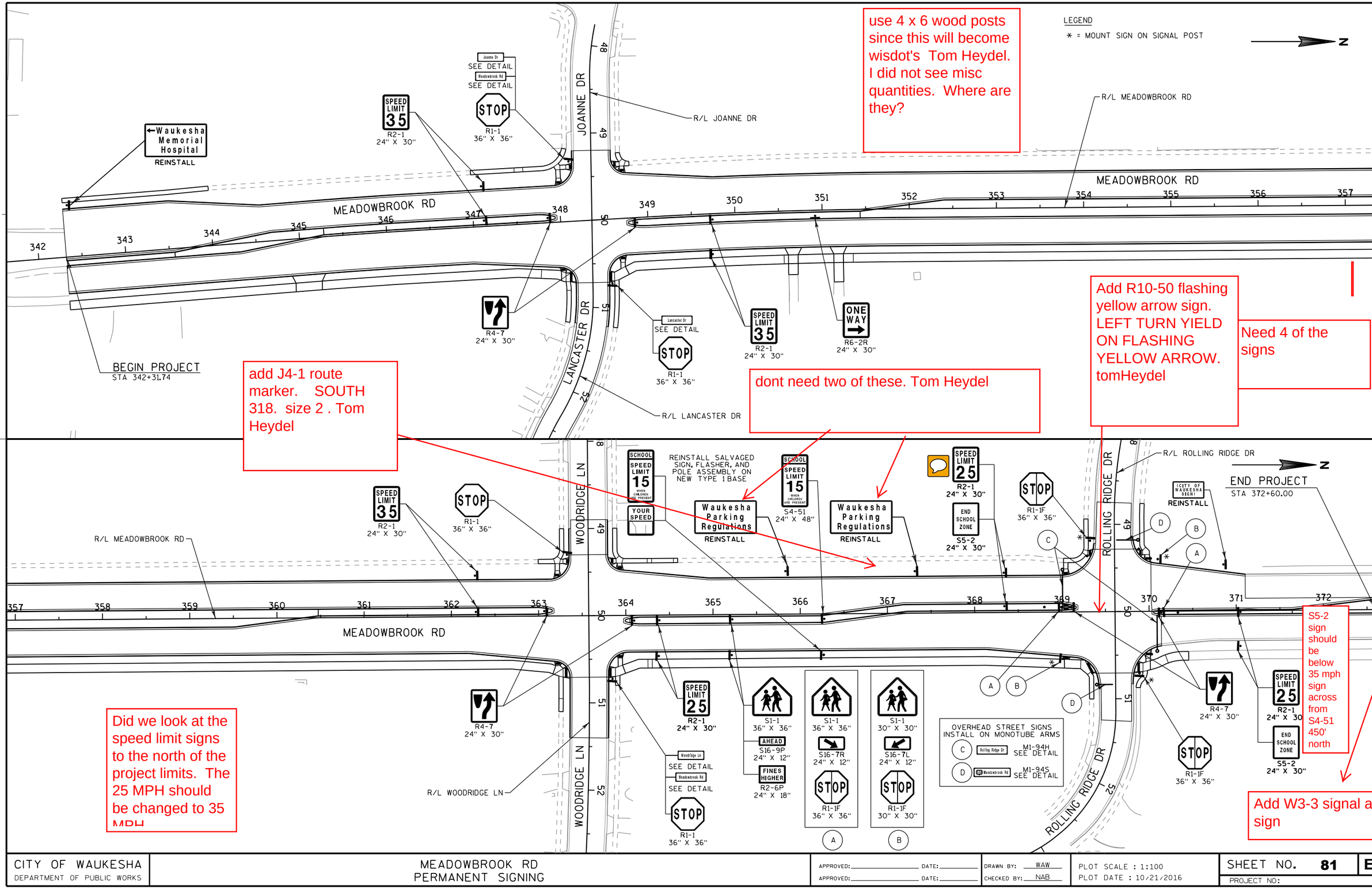
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD SIGN REMOVAL	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. 79 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity_Gov\150253 Waukesha Bypass\DGN\Plansheets\023201-ps.dgn



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD SIGN REMOVAL	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **80** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\023202_ps.dgn



use 4 x 6 wood posts since this will become wisdot's Tom Heydel. I did not see misc quantities. Where are they?
LEGEND
* = MOUNT SIGN ON SIGNAL POST
N
R/L MEADOWBROOK RD
R/L JOANNE DR
JOANNE DR
MEADOWBROOK RD
Waukesha Memorial Hospital
REINSTALL
SPEED LIMIT 35
R2-1
24" X 30"
STOP
R1-1
36" X 36"
SEE DETAIL
R4-7
24" X 30"
LANCASTER DR
R/L LANCASTER DR
ONE WAY
R6-2R
24" X 30"
BEGIN PROJECT
STA 342+31.74
add J4-1 route marker. SOUTH 318. size 2 . Tom Heydel
dont need two of these. Tom Heydel
Add R10-50 flashing yellow arrow sign. LEFT TURN YIELD ON FLASHING YELLOW ARROW. tomHeydel
Need 4 of the signs
WOODRIDGE LN
SCHOOL SPEED LIMIT 15
YOUR SPEED
REINSTALL SALVAGED SIGN, FLASHER, AND POLE ASSEMBLY ON NEW TYPE 1 BASE
Waukesha Parking Regulations
REINSTALL
S4-51
24" X 48"
SPEED LIMIT 25
END SCHOOL ZONE
S5-2
24" X 30"
R1-1F
36" X 36"
ROLLING RIDGE DR
R/L ROLLING RIDGE DR
END PROJECT
STA 372+60.00
R/L WOODRIDGE LN
S1-1
36" X 36"
AHEAD
S16-9P
24" X 12"
FINES HIGHER
R2-6P
24" X 18"
S16-7R
24" X 12"
S16-7L
24" X 12"
30" X 30"
OVERHEAD STREET SIGNS INSTALL ON MONOTUBE ARMS
M1-94H SEE DETAIL
M1-94S SEE DETAIL
S5-2 sign should be below 35 mph sign across from S4-51 450' north
Add W3-3 signal ahead sign
Did we look at the speed limit signs to the north of the project limits. The 25 MPH should be changed to 35 MPH
CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS
MEADOWBROOK RD
PERMANENT SIGNING
APPROVED: DATE:
DRAWN BY: WAW
CHECKED BY: NAB
PLOT SCALE : 1:100
PLOT DATE : 10/21/2016
SHEET NO. 81
E
PROJECT NO:

N

MEADOWBROOK ROAD

341 342 343 344 345 346 347

STA. 346+04. 5.9' LT
SLB-40

STA. 344+31. 2.5' RT
SLB-39

STA. 344+23. 2.7' RT
LPB-18

STA. 344+19. 64.5' RT
LPB-19

⊕	PROPOSED CONCRETE TYPE 7 BASE	(R)	#4 AWG RED	Ⓐ	#4–BRN #6–G
⊠	PROPOSED LIGHT CONTROL CABINET	(B)	#4 AWG BLACK	Ⓑ	#4–BN #6–G
— — —	PROPOSED POLYETHYLENE DUCT 2 INCH, STREET LIGHTING	(N)	#4 AWG WHITE	Ⓒ	#4–RN #6– G
	PROPOSED TWIN LUMINARE	(G)	#6 AWG GREEN	Ⓓ	EMPTY CONDUIT w/tracer
	PROPOSED SINGLE LUMINARE	(TRACER)	#10 AWG ORANGE		
	PROPOSED 24"x 36" PULL BOX				

N

STA. 348+64. 75.0' LT
SLB-43

STA. 349+07. 53.8' LT
LPB-22

JOANNE DRIVE

MEADOWBROOK ROAD

347 348 349 350 351 352

STA. 350+64. 6.4' RT
SLB-45

STA. 352+34. 0.4' RT
SLB-46

STA. 347+73. 6.2' LT
SLB-41

STA. 347+64. 5.9' LT
LPB-20

STA. 347+64. 50.4' RT
LPB-21

STA. 349+07. 6.1' RT
LPB-23

STA. 348+97. 6.2' RT
SLB-44

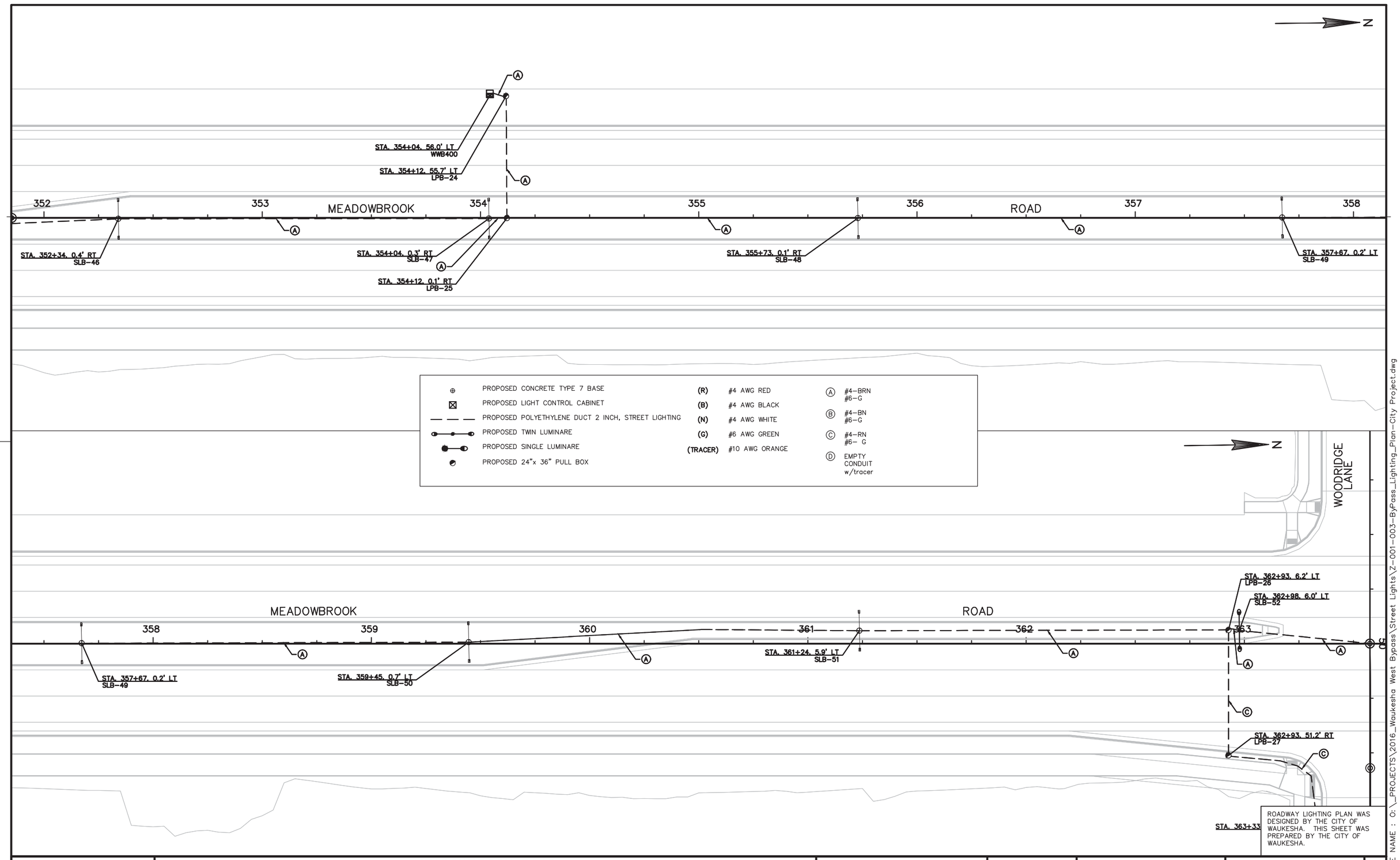
LANCASTER DRIVE

STA. 348+11. 78.1' RT
STA. 348+11. 78.1' RT

ROADWAY LIGHTING PLAN WAS DESIGNED BY THE CITY OF WAUKESHA. THIS SHEET WAS PREPARED BY THE CITY OF WAUKESHA.

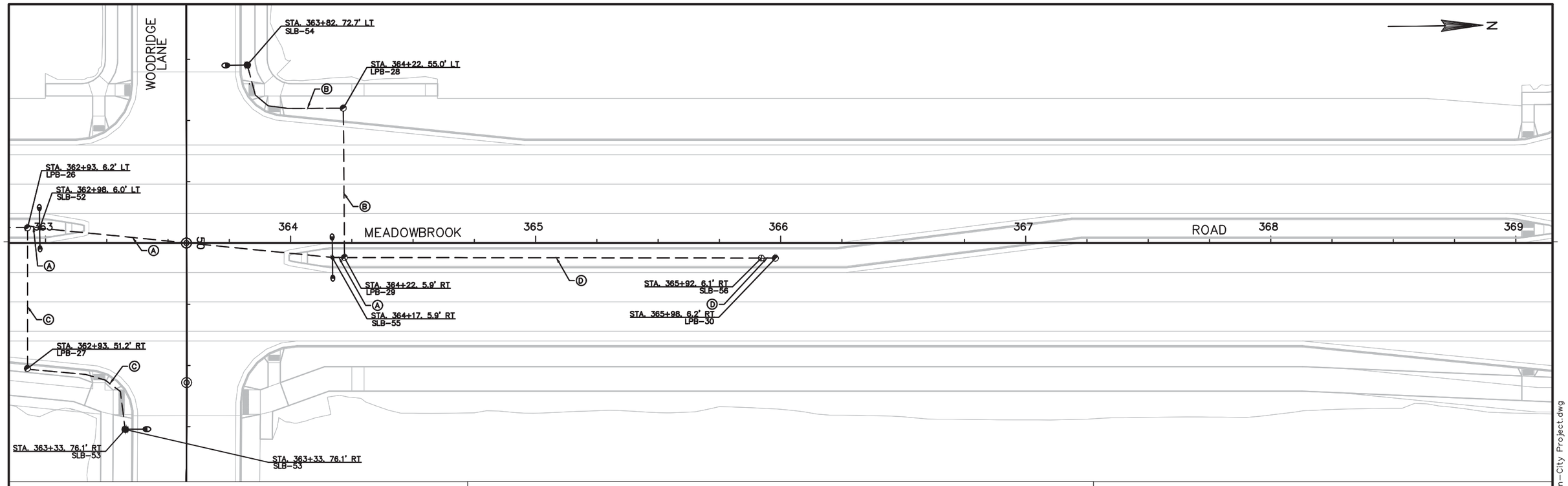
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD ROADWAY LIGHTING PLAN	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: MFG CHECKED BY: JJH	PLOT SCALE : 1 IN : 40 FT PLOT DATE : 8/1/2016 9:22 AM	SHEET NO. **82** PROJECT NO: 2016–WAUK W. BYPASS

FILE NAME : O:_PROJECTS\2016_Waukesha West Bypass\Street Lights\Z-001-003-ByPass_Lighting_Plan-City Project.dwg



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD ROADWAY LIGHTING PLAN	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: MFG CHECKED BY: JJH	PLOT SCALE : 1 IN : 40 FT PLOT DATE : 8/1/2016 9:22 AM	SHEET NO. **83** PROJECT NO: 2016-WAUK W. BYPASS

FILE NAME : O:_PROJECTS\2016_Waukesha West Bypass\Street Lights\Z-001-003-ByPass_Lighting_Plan-City Project.dwg

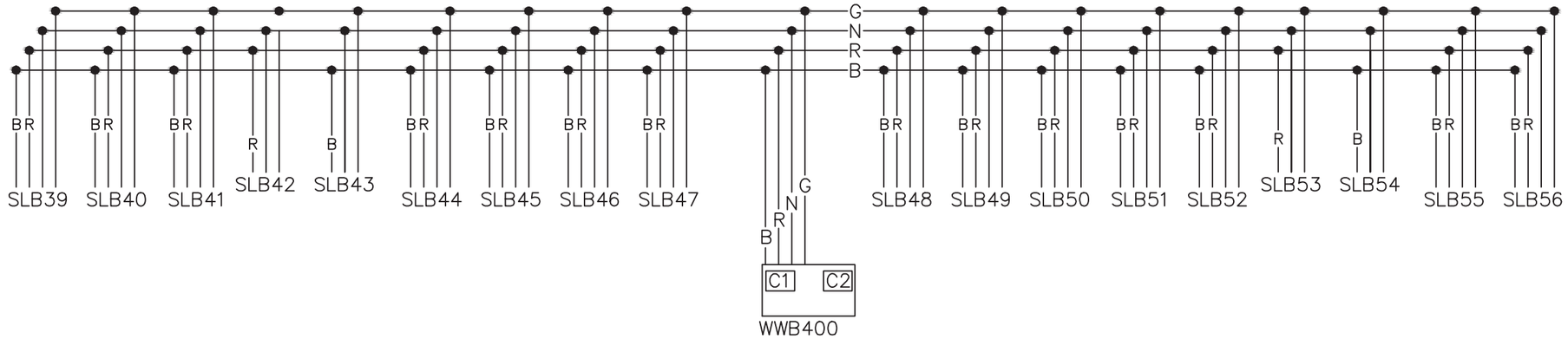


⊕	PROPOSED CONCRETE TYPE 7 BASE	(R)	#4 AWG RED	Ⓐ	#4–BRN #6–G
⊠	PROPOSED LIGHT CONTROL CABINET	(B)	#4 AWG BLACK	Ⓑ	#4–BN #6–G
— — —	PROPOSED POLYETHYLENE DUCT 2 INCH, STREET LIGHTING	(N)	#4 AWG WHITE	Ⓒ	#4–RN #6– G
●—●	PROPOSED TWIN LUMINARE	(G)	#6 AWG GREEN	Ⓓ	EMPTY CONDUIT w/tracer
●—	PROPOSED SINGLE LUMINARE	(TRACER)	#10 AWG ORANGE		
◓	PROPOSED 24"x 36" PULL BOX				

ROADWAY LIGHTING PLAN WAS DESIGNED BY THE CITY OF WAUKESHA. THIS SHEET WAS PREPARED BY THE CITY OF WAUKESHA.

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD ROADWAY LIGHTING PLAN	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: MFG CHECKED BY: JJH	PLOT SCALE : 1 IN : 40 FT PLOT DATE : 8/1/2016 9:23 AM	SHEET NO. **84** PROJECT NO: 2016–WAUK W. BYPASS

FILE NAME : O:_PROJECTS\2016_Waukesha West Bypass\Street Lights\Z-001-003-ByPass_Lighting_Plan-City Project.dwg



ROADWAY LIGHTING PLAN WAS DESIGNED BY THE CITY OF WAUKESHA. THIS SHEET WAS PREPARED BY THE CITY OF WAUKESHA.

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK ROAD ROADWAY LIGHTING PLAN	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: MFG CHECKED BY: JJH	PLOT SCALE : 1 IN : 40 FT PLOT DATE : 8/1/2016 9:23 AM	SHEET NO. **85** PROJECT NO: 2016-WAUK W. BYPASS

FILE NAME : O:_PROJECTS\2016_Waukesha West Bypass\Street Lights\Z-001-003-ByPass_Lighting_Plan-City Project.dwg

LEGEND

- SIGNAL HEAD, TEMPORARY
- CLASS 4 WOOD POLE
- TEMPORARY SPAN WIRE
- TEMPORARY LUMINAIRE
- EVP DETECTOR HEAD
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- WALK/DON'T WALK INDICATOR 16" WITH COUNTDOWN TIMER
- PEDESTRIAN HEAD
- PB PUSH BUTTON

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

STH 318 (MEADOWBROOK ROAD)

ROLLING RIDGE DRIVE

POSTED SPEED LIMIT = 25 MPH

POSTED SPEED LIMIT = 35 MPH

R/W

WP1 WP2 WP3 WP4 WP5

TSB1 TSB2 TSB3 TSB4 TSB5 TSB6 TSB7 TSB8

V1 V2 V3 V4

250' TO NEAR RIGHT SIGNAL

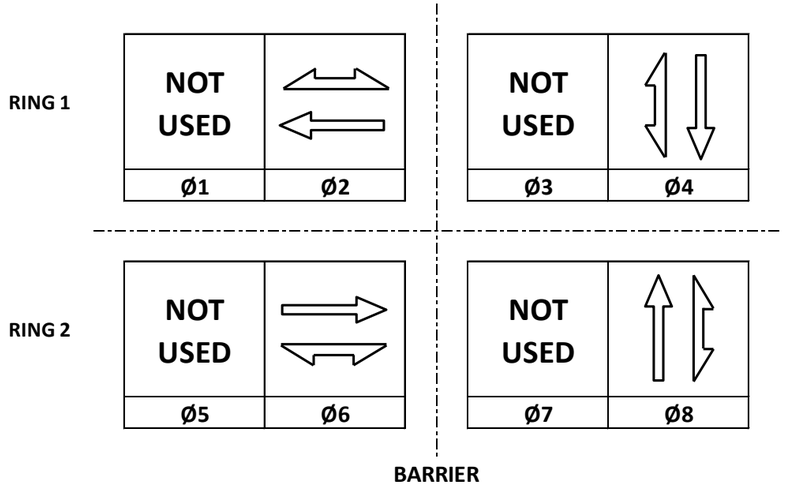
CONSTRUCTION NOTES:

1. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ANY CONSTRUCTION.
2. ALL SIGNING, STRIPING, TRAFFIC SIGNALS, AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
3. DO NOT BEGIN REMOVALS UNTIL AFTER THE TEMPORARY SIGNAL IS OPERATIONAL.
4. ADJUST THE LOCATIONS OF THE SIGNAL FACES TO ACCOMMODATE TRAFFIC DURING STAGING.
5. THE CONTRACTOR SHALL PROVIDE THE TEMPORARY TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL DETERMINE THE FIELD LOCATION FOR THIS ITEM TO BEST MATCH CONDITIONS.
6. TSB1-TSB8 ARE 3.5-FT TRAFFIC SIGNAL STANDARDS WITH PEDESTAL BASES MOUNTED ON WOODEN PALLETS.

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TEMPORARY TRAFFIC SIGNAL PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: _____ CHECKED BY: _____	PLOT SCALE : 40.0000 sf / in. PLOT DATE : 10/6/2016	SHEET NO. **86** **E** PROJECT NO:

FILE NAME : 024101_sp.dgn

	HEAD NUMBERS	FLASH
Ø1		
Ø2	4,5,6	R
Ø3		
Ø4	10,11,12	R
Ø5		
Ø6	1,2,3	R
Ø7		
Ø8	7,8,9	R
Ø2P	15,16	
Ø4P	13,14	
Ø6P	19,20	
Ø8P	17,18	
OLE		
OLF		
OLG		
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3				
4		8		X
5				
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	← →	← →	↓ ↑	↓ ↑
PHASE	2+6	6+2	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	21	42	81					
CALLED PHASE	2	4	8					
CALL OPTION	X	X	X					
DELAY TIME			X					
EXTENTION OPTION	X	X	X					
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

19	17	23	21	27	25	31	29	
								DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	41	61						
CALLED PHASE	4	6						
CALL OPTION	X	X						
DELAY TIME	X							
EXTENTION OPTION	X	X						
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

20	18	24	22	28	26	32	30	
								DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

FILE NAME : _____

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
TEMPORARY SEQUENCE OF OPERATIONS

APPROVED:_____ DATE:_____
APPROVED:_____ DATE:_____

DRAWN BY: _____
CHECKED BY:_____

PLOT SCALE : 1:1
PLOT DATE : _____

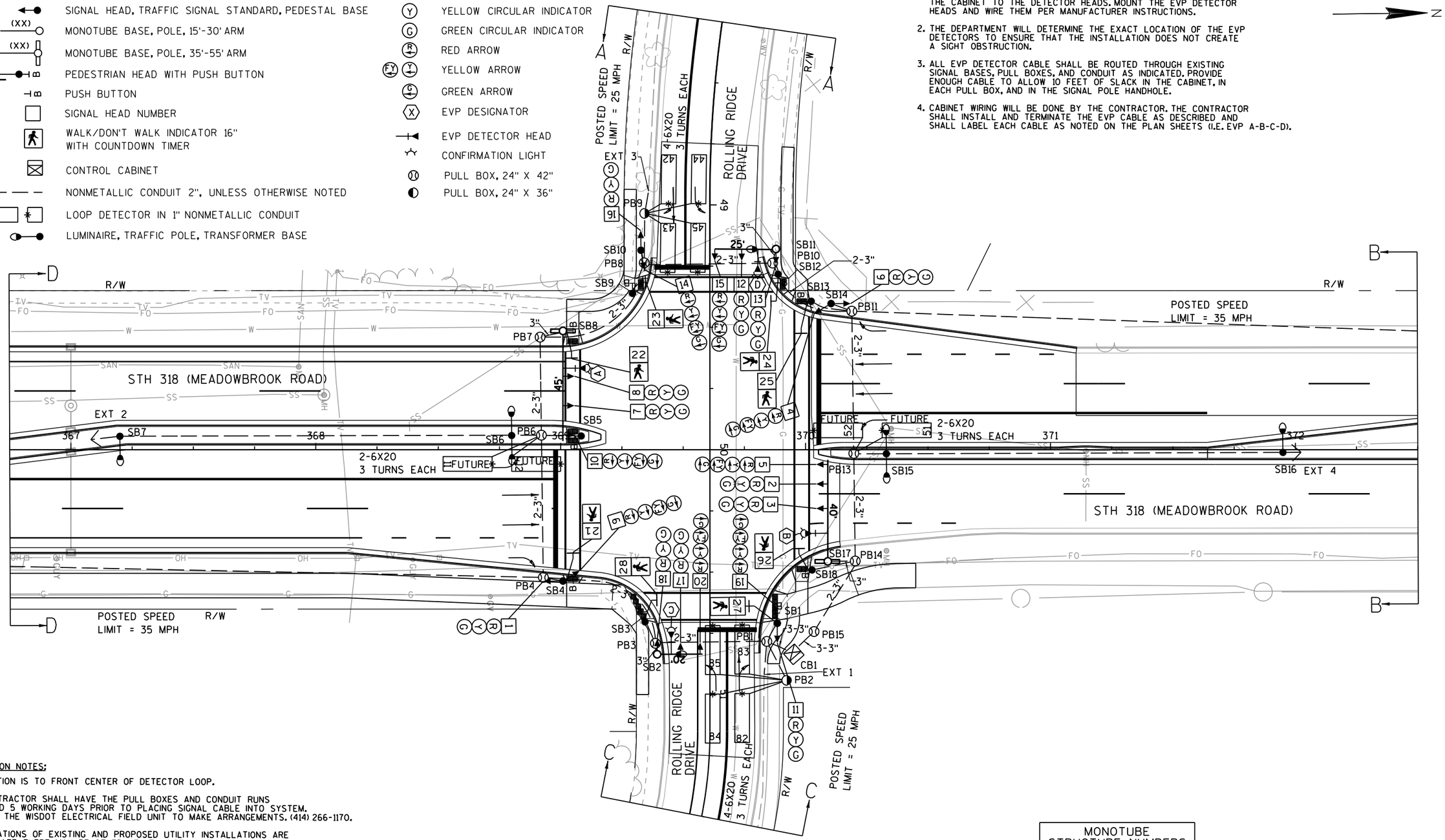
SHEET NO. 87 E
PROJECT NO:

LEGEND

- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- SIGNAL HEAD NUMBER
- WALK/DON'T WALK INDICATOR 16" WITH COUNTDOWN TIMER
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY) YELLOW ARROW
- (G) GREEN ARROW
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. CABINET WIRING WILL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE PLAN SHEETS (I.E. EVP A-B-C-D).



CONSTRUCTION NOTES:

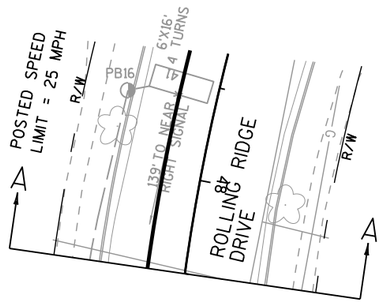
1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
5. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.

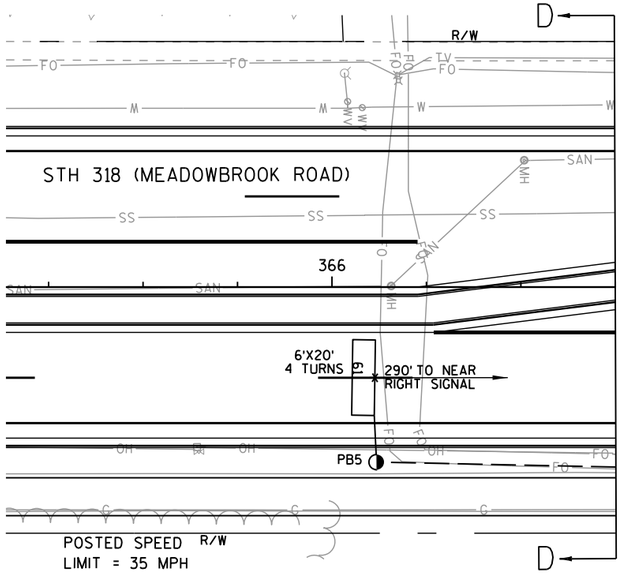
MONOTUBE STRUCTURE NUMBERS
SB2 = S-67-1378
SB8 = S-67-1379
SB11 = S-67-1380
SB17 = S-67-1381

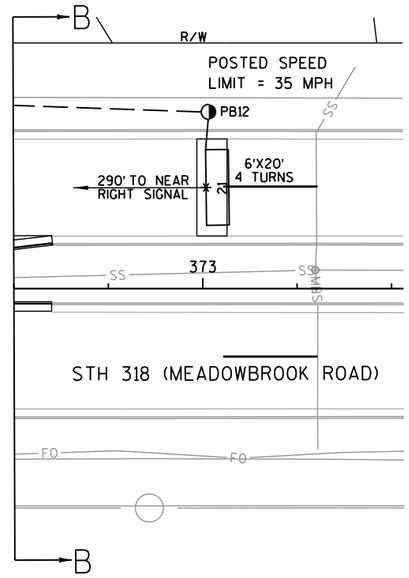
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC SIGNAL PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: _____ CHECKED BY: _____	PLOT SCALE : 40.0000 sf / in. PLOT DATE : 10/4/2016	SHEET NO. 88 E PROJECT NO:

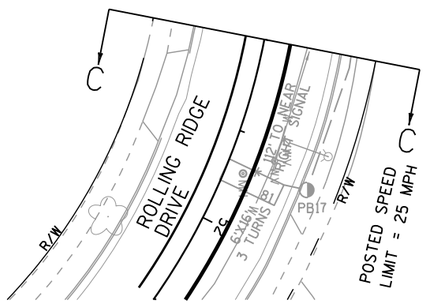
FILE NAME : 024201_sp.dgn

N





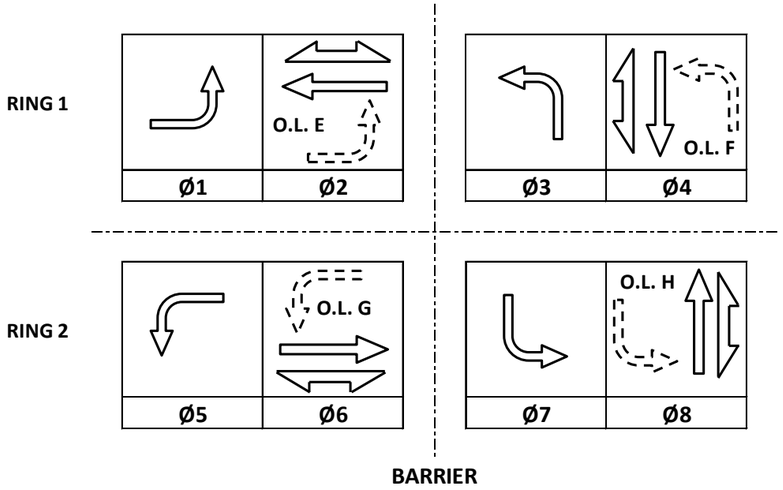




CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC SIGNAL PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: _____ CHECKED BY: _____	PLOT SCALE : 40.1059 sf / in. PLOT DATE : 10/4/2016	SHEET NO. **89** **E** PROJECT NO:

FILE NAME : 024202_sp.dgn

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3	14,15	R ←
Ø4	16,17,18	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7	19,20	R ←
Ø8	11,12,13	R
Ø2P	23,24	
Ø4P	21,22	
Ø6P	27,28	
Ø8P	25,26	
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH	19,20	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	42	44	51	61	82	84
CALLED PHASE	FUTURE	2	4	4	FUTURE	6	8	8
CALL OPTION		X	X	X		X	X	X
DELAY TIME								
EXTENTION OPTION		X	X	X		X	X	X
EXTEND TIME								
USE ADDED INITIAL		X				X		
CROSS SWITCH PHASE								

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	41	43	45	52	81	83	85
CALLED PHASE	FUTURE	4	4	4	FUTURE	8	8	8
CALL OPTION		X	X	X		X	X	X
DELAY TIME			X	X			X	X
EXTENTION OPTION		X	X	X		X	X	X
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

FILE NAME : _____

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
SEQUENCE OF OPERATIONS

APPROVED:_____ DATE:_____
APPROVED:_____ DATE:_____

DRAWN BY: _____
CHECKED BY:_____

PLOT SCALE : 1:1
PLOT DATE : _____

SHEET NO. 90 E
PROJECT NO:

PROJECT ID:	
INTERSECTION:	STH 318 (MEADOWBROOK RD) & ROLLING RIDGE DR

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORANGE

CB1 TO	JUMPER	# OF COND. AWG 14	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	OTHER
				RED	YELLOW	GREEN	<RED	<YELLOW>	<FL YELLOW>	<GREEN>	D/WALK	WALK		
SB1		12	11	RED/BLK	ORG/BLK	GRN/BLK								
			19				RED	ORG	BLK/WHT	GRN				
			27								BLK	BLU		
			B										WHT/BLK	
SB2		12	17	RED	ORG	GRN								
			18	RED	ORG	GRN								
			20				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB3		7	28								BLK	BLU		
			B										WHT/BLK	
SB4		12	1	RED	ORG	GRN								
			9				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
			21								BLK	BLU		
			B										WHT/BLK	
SB5		7	B										WHT/BLK	
SB8		12	7	RED	ORG	GRN								
			8	RED	ORG	GRN								
			10				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
			22								BLK	BLU		
			B										WHT/BLK	
SB9		7	23								BLK	BLU		
			B										WHT/BLK	
SB10		12	14				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
			16	RED	ORG	GRN								
SB11		12	12	RED	ORG	GRN								
			13	RED	ORG	GRN								
			15				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB12		7	24								BLK	BLU		
			B										WHT/BLK	
SB13		7	25								BLK	BLU		
			B										WHT/BLK	
SB14		12	4				RED	ORG	BLK/WHT	GRN				
			6	RED/BLK	ORG/BLK	GRN/BLK								
SB17		12	2	RED	ORG	GRN								
			3	RED	ORG	GRN								
			5				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB18		7	26								BLK	BLU		
			B										WHT/BLK	

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.
4. "OTHER" COLUMN MAY INCLUDE SHADOW BOX (BLANK OUT) SIGN.

FILE NAME : Meadowbrook_cr.pptx

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CABLE ROUTING	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY:____ CHECKED BY:____	PLOT SCALE : 1:1 PLOT DATE : 2016-06-21	SHEET NO. 91 E PROJECT NO:

CABLE ROUTING CONTINUED

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB17
SB17	SB18
SB18	CB1

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
CB1	PB1
SB2	PB3
SB4	PB4
SB5	PB6
SB8	PB7
SB10	PB8
SB12	PB10
SB14	PB11
SB17	PB13
SB17	PB14
CB1	PB15

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB8 (HEAD A)
CB1	SB17 (HEAD B)
CB1	SB2 (HEAD C)
CB1	SB11 (HEAD D)

LIGHTING UF 10 AWG W/GROUND	
FROM	TO
CB1	SB2
SB2	SB6
SB6	SB7
CB1	SB15
SB15	SB16
SB15	SB11

FILE NAME : Meadowbrook_cr.pptx

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
CABLE ROUTING

APPROVED:_____ DATE:_____
APPROVED:_____ DATE:_____

DRAWN BY: _____
CHECKED BY:_____

PLOT SCALE : 1:1
PLOT DATE : 2016-06-21

SHEET NO. 92 E
PROJECT NO:

		CONDUIT		
		652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	652.0615 CONDUIT SPECIAL 3-INCH
FROM	TO	L.F.	L.F.	L.F.
CB1	PB1	--	45	--
PB1	EXT 1	15	--	--
PB1	PB2	20	--	--
PB1	SB1	10	--	--
PB1	PB3	--	--	90
PB3	SB2	--	5	--
PB3	SB3	10	--	--
PB3	PB4	--	120	--
PB4	PB5	285	--	--
PB4	SB4	10	--	--
PB4	PB6	--	--	120
PB6	SB5	20	--	--
PB6	SB6	15	--	--
SB6	SB7	160	--	--
SB7	EXT 2	10	--	--
PB6	PB7	--	--	80
PB7	SB8	--	10	--
PB7	PB8	--	120	--

		CONDUIT CONTINUED		
		652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	652.0615 CONDUIT SPECIAL 3-INCH
FROM	TO	L.F.	L.F.	L.F.
PB8	SB9	15	--	--
PB8	SB10	10	--	--
PB8	PB9	20	--	--
PB9	EXT 3	10	--	--
PB8	PB10	--	--	110
PB10	SB11	--	10	--
PB10	SB12	5	--	--
PB10	PB11	--	80	--
PB11	SB13	20	--	--
PB11	SB14	10	--	--
PB11	PB12	290	--	--
PB11	PB13	--	--	120
PB13	SB15	15	--	--
SB15	SB16	165	--	--
SB16	EXT 4	10	--	--
PB13	PB14	--	--	90
PB14	SB17	--	15	--
PB14	SB18	20	--	--
PB14	PB15	--	70	--
PB15	CB1	--	45	--
	TOTAL	1145	520	610

FILE NAME : Meadowbrook_mq.ppt

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
MISCELLANEOUS QUANTITIES

APPROVED:_____ DATE:_____
APPROVED:_____ DATE:_____

DRAWN BY: _____
CHECKED BY:_____

SHEET NO. **93** **E**
PROJECT NO:

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION* STA	OFFSET	SIZE (FT) X (FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB6	368+72.0	05.8' RT	6 X 20	3	CONCRETE	9F15-4A	96	195	302
12	PB6	369+00.0	05.9' RT	6 X 20	3	CONCRETE	9F15-4A	82	195	258
21	PB12	373+00.9	26.8' LT	6 X 20	4	CONCRETE	9F15-4A	74	460	311
41	PB16	EXISTING	EXISTING	6 X 16	4	CONCRETE	EXISTING	66	415	277
42	PB9	48+99.6	16.9' RT	6 X 20	3	CONCRETE	9F15-4A	72	285	227
43	PB9	49+27.5	17.3' RT	6 X 20	3	CONCRETE	9F15-4A	68	285	214
44	PB9	48+99.5	04.6' RT	6 X 20	3	CONCRETE	9F15-4B	68	285	214
45	PB9	49+27.5	05.0' RT	6 X 20	3	CONCRETE	9F15-4B	92	285	290
51	PB13	370+31.3	07.9' LT	6 X 20	3	CONCRETE	9F15-4A	80	110	252
52	PB13	370+03.3	07.9' LT	6 X 20	3	CONCRETE	9F15-4A	68	110	214
61	PB5	366+11.4	24.0' RT	6 X 20	4	CONCRETE	9F15-4A	78	420	328
81	PB17	EXISTING	EXISTING	6 X 16	3	CONCRETE	EXISTING	64	145	202
82	PB2	50+99.6	13.2' LT	6 X 20	3	CONCRETE	9F15-4A	84	50	265
83	PB2	50+71.6	13.2' LT	6 X 20	3	CONCRETE	9F15-4A	84	50	265
84	PB2	50+99.9	01.2' LT	6 X 20	3	CONCRETE	9F15-4B	108	50	340
85	PB2	50+71.9	01.2' LT	6 X 20	3	CONCRETE	9F15-4B	108	50	340
							TOTAL	1292	3390	4299

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

9F15-4A LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

9F15-4B LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

FILE NAME : Meadowbrook_mq.ppt

PULL BOXES

PULL BOX NO.	LOCATION STA	LOCATION OFFSET	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	50+78.2	23.1' LT	--	1
PB2	50+94.2	31.4' LT	1	--
PB3	50+79.1	22.3' RT	--	1
PB4	368+92.9	52.2' RT	--	1
PB5	366+11.8	46.3' RT	1	--
PB6	368+92.1	05.9' LT	--	1
PB7	368+91.6	46.0' LT	--	1
PB8	49+23.7	26.8' RT	--	1
PB9	49+03.4	26.6' RT	1	--
PB10	49+23.8	25.6' LT	--	1
PB11	370+18.9	56.6' LT	--	1
PB12	373+01.6	46.8' LT	1	--
PB13	370+19.7	01.5' RT	--	1
PB14	370+20.3	45.5' RT	--	1
PB15	50+74.3	42.5' LT	--	1
		TOTAL	4	11

CONCRETE BASES

SIGNAL BASE NO.	LOCATION STA	LOCATION OFFSET	654.0101 CONCRETE BASES TYPE 1 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	SPV.0060.01 CONCRETE BASES TYPE 10 EACH	SPV.0060.02 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	50+82.8	33.6' LT	--	--	--	--	1
SB1	50+70.9	27.5' LT	1	--	--	--	--
SB2	50+83.6	21.5' RT	--	--	1	--	--
SB3	50+70.4	26.5' RT	1	--	--	--	--
SB4	369+01.0	53.6' RT	1	--	--	--	--
SB5	369+08.4	05.6' LT	1	--	--	--	--
SB6	368+80.0	05.8' LT	--	1	--	--	--
SB7	367+20.0	05.5' LT	--	1	--	--	--
SB8	369+01.0	48.5' LT	--	--	--	1	--
SB9	49+36.1	31.6' RT	1	--	--	--	--
SB10	49+18.5	28.1' RT	1	--	--	--	--
SB11	49+18.0	27.0' LT	--	--	1	--	--
SB12	49+28.3	27.8' LT	1	--	--	--	--
SB13	370+02.3	60.7' LT	1	--	--	--	--
SB14	370+10.4	59.7' LT	1	--	--	--	--
SB15	370+33.0	01.7' RT	--	1	--	--	--
SB16	371+95.0	01.1' RT	--	1	--	--	--
SB17	370+09.1	45.6' RT	--	--	--	1	--
SB18	370+02.7	49.1' RT	1	--	--	--	--
		TOTAL	10	4	2	2	1

FILE NAME : Meadowbrook_mq.ppt

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 11	20	--
SB1	HEAD 19	--	25
SB1	HEAD 27	20	--
SB2	HEAD 17	40	--
SB2	HEAD 18	20	--
SB2	HEAD 20	--	50
SB3	HEAD 28	20	--
SB4	HEAD 1	20	--
SB4	HEAD 9	--	25
SB4	HEAD 21	20	--
SB8	HEAD 7	65	--
SB8	HEAD 8	50	--
SB8	HEAD 10	--	75
SB8	HEAD 22	20	--
SB9	HEAD 23	20	--
SB10	HEAD 14	--	25
SB10	HEAD 16	20	--
SB11	HEAD 12	45	--
SB11	HEAD 13	20	--
SB11	HEAD 15	--	55
SB12	HEAD 24	20	--
SB13	HEAD 25	20	--
SB14	HEAD 4	--	25
SB14	HEAD 6	20	--
SB17	HEAD 2	65	--
SB17	HEAD 3	55	--
SB17	HEAD 5	--	70
SB18	HEAD 26	20	--
	TOTAL	600	350

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.
CB1	SB1	--	70
CB1	SB2	--	110
CB1	SB3	115	--
CB1	SB4	--	175
CB1	SB5	245	--
CB1	SB8	--	275
CB1	SB9	310	--
CB1	SB10	--	305
CB1	SB11	--	250
CB1	SB12	245	--
CB1	SB13	220	--
CB1	SB14	--	210
CB1	SB17	--	110
CB1	SB18	115	--
	TOTAL	1250	1505

* QUANTITY SHOWN ELSEWHERE ON PLAN

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
MISCELLANEOUS QUANTITIES

APPROVED:_____ DATE:_____
APPROVED:_____ DATE:_____

DRAWN BY: _____
CHECKED BY:_____

SHEET NO. 96 E
PROJECT NO:

FILE NAME : Meadowbrook_mq.ppt

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	40
SB1	SB2	75
SB2	SB3	30
SB3	SB4	95
SB4	SB5	105
SB5	SB8	85
SB8	SB9	100
SB9	SB10	40
SB10	SB11	90
SB11	SB12	30
SB12	SB13	80
SB13	SB14	45
SB14	SB17	145
SB17	SB18	50
SB18	CB1	85
CB1	PB1	30
SB2	PB3	20
SB4	PB4	25
SB5	PB6	35
SB8	PB7	25
SB10	PB8	25
SB12	PB10	20
SB14	PB11	25
SB17	PB13	75
SB17	PB14	30
CB1	PB15	30
	TOTAL	1435

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG L.F.
CB1	SB2	110	--
SB2	LUMIN	--	145
SB2	SB6	185	--
SB6	LUMIN	--	235
SB6	SB7	205	--
SB7	LUMIN	--	120
CB1	SB15	155	--
SB15	LUMIN	--	235
SB15	SB16	210	--
SB16	LUMIN	--	120
SB15	SB11	170	--
SB11	LUMIN	--	145
	TOTAL	1035	1000

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
MEADOWBROOK RD & ROLLING RIDGE DR	1
TOTAL	1

FILE NAME : Meadowbrook_mq.ppt

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
MISCELLANEOUS QUANTITIES

APPROVED:_____ DATE:_____
APPROVED:_____ DATE:_____

DRAWN BY: _____
CHECKED BY:_____

SHEET NO. 97 E
PROJECT NO:

	POLES															
SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	SPV.0060.03 LUMINAIRE ARMS STEEL 15-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH	SPV.0060.04 POLES TYPE 10 EACH	SPV.0060.05 POLES TYPE 12 EACH	SPV.0060.06 MONOTUBE ARMS 20-FT EACH	SPV.0060.07 MONOTUBE ARMS 25-FT EACH	SPV.0060.08 MONOTUBE ARMS 40-FT EACH	SPV.0060.09 MONOTUBE ARMS 45-FT EACH
SB1	1	--	--	--	1	--	--	--	1	--	--	--	--	--	--	--
SB2	--	--	--	--	--	--	--	1	--	1	1	--	1	--	--	--
SB3	1	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--
SB4	1	--	--		1	--	--	--	1	--	--	--	--	--	--	--
SB5	1	--	--	1	--	--	--	--	1	--	--	--	--	--	--	--
SB6		1	1		--	--	2	--	--	2	--	--	--	--	--	--
SB7	--	1	1	--	--	--	1	--	--	1	--	--	--	--	--	--
SB8	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	1
SB9	1	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--
SB10	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
SB11		--	--	--	--	--	--	1	--	1	1	--	--	1	--	--
SB12	1	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--
SB13	1	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--
SB14	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
SB15		1	1	--	--	--	2	--	--	2	--	--	--	--	--	--
SB16	--	1	1	--	--	--	1	--	--	1	--	--	--	--	--	--
SB17	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--
SB18	1	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--
TOTAL	10	4	4	1	4	5	6	2	9	8	2	2	1	1	1	1

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
MISCELLANEOUS QUANTITIES

APPROVED:_____ DATE:_____
APPROVED:_____ DATE:_____

DRAWN BY: _____
CHECKED BY:_____

SHEET NO. **98** **E**
PROJECT NO:

FILE NAME : Meadowbrook_mq.ppt

		FACES										
SIGNAL BASE NO.	SIGNAL HEAD NO.	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
SB4	HEAD 1	1	--	1	--	1	1	1	--	--	--	--
SB17	HEAD 2	1	--	1	--	1	1	1	--	--	--	--
SB17	HEAD 3	1	--	1	--	1	1	1	--	--	--	--
SB14	HEAD 4	--	1	--	1	--	--	--	1	2	1	--
SB17	HEAD 5	--	1	--	1	--	--	--	1	2	1	--
SB14	HEAD 6	1	--	1	--	1	1	1	--	--	--	--
SB8	HEAD 7	1	--	1	--	1	1	1	--	--	--	--
SB8	HEAD 8	1	--	1	--	1	1	1	--	--	--	--
SB4	HEAD 9	--	1	--	1	--	--	--	1	2	1	--
SB8	HEAD 10	--	1	--	1	--	--	--	1	2	1	--
SB1	HEAD 11	1	--	1	--	1	1	1	--	--	--	--
SB11	HEAD 12	1	--	1	--	1	1	1	--	--	--	--
SB11	HEAD 13	1	--	1	--	1	1	1	--	--	--	--
SB10	HEAD 14	--	1	--	1	--	--	--	1	2	1	--
SB11	HEAD 15	--	1	--	1	--	--	--	1	2	1	--
SB10	HEAD 16	1	--	1	--	1	1	1	--	--	--	--
SB2	HEAD 17	1	--	1	--	1	1	1	--	--	--	--
SB2	HEAD 18	1	--	1	--	1	1	1	--	--	--	--
SB1	HEAD 19	--	1	--	1	--	--	--	1	2	1	--
SB2	HEAD 20	--	1	--	1	--	--	--	1	2	1	--
SB4	HEAD 21	--		--		--	--	--				1
SB8	HEAD 22	--	--	--	--	--	--	--	--	--	--	1
SB9	HEAD 23	--	--	--	--	--	--	--	--	--	--	1
SB12	HEAD 24	--	--	--	--	--	--	--	--	--	--	1
SB13	HEAD 25	--	--	--	--	--	--	--	--	--	--	1
SB18	HEAD 26	--	--	--	--	--	--	--	--	--	--	1
SB1	HEAD 27	--	--	--	--	--	--	--	--	--	--	1
SB3	HEAD 28	--	--	--	--	--	--	--	--	--	--	1
	TOTAL	12	8	12	8	12	12	12	8	16	8	8

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
MISCELLANEOUS QUANTITIES

APPROVED:_____ DATE:_____
APPROVED:_____ DATE:_____

DRAWN BY: _____
CHECKED BY:_____

SHEET NO. 99 E
PROJECT NO:

FILE NAME : Meadowbrook_mq.ppt

TRAFFIC SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.01 SIGNAL MOUNTING HARDWARE L.S.
MEADOWBROOK RD & ROLLING RIDGE DR	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
MEADOWBROOK RD & ROLLING RIDGE DR	1
TOTAL	1

TRAFFIC SIGNAL CABINET

LOCATION	SPV.0060.10 TRAFFIC SIGNAL CONTROLLER AND CABINET 8-PHASE FULLY ACTUATED EACH
MEADOWBROOK RD & ROLLING RIDGE DR	1
TOTAL	1

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0105.01 EMERGENCY VEHICLE PREEMPTION SYSTEM L.S.
MEADOWBROOK RD & ROLLING RIDGE DR	1
TOTAL	1

FILE NAME : Meadowbrook_mq.ppt

TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS

LOCATION	SPV.0105.02 TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM L.S.
MEADOWBROOK RD & ROLLING RIDGE DR	1
TOTAL	1

REMOVE TRAFFIC SIGNALS AND STREET LIGHTING

LOCATION	SPV.0105.03 REMOVE TRAFFIC SIGNALS AND STREET LIGHTING L.S.
MEADOWBROOK RD & ROLLING RIDGE DR	1
TOTAL	1

FILE NAME : Meadowbrook_mq.ppt

LEGEND

1. REMOVING PAVEMENT MARKINGS
2. REMOVING PAVEMENT MARKING ARROWS
3. REMOVING PAVEMENT MARKING WORDS

N

RIDGELINE DR

ROLLING RIDGE DR

SIL VERNAIL RD

END PROJECT
STA 372+60.00

R/L MEADOWBROOK RD

MEADOWBROOK RD

366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381

48 49 50 51 52 53

1 STA 370+13.27'LT TO STA 372+19.27'LT

R/L ROLLING RIDGE DR

ROLLING RIDGE DR

SILVERNAIL RD

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PAVEMENT MARKING REMOVALS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **102**	**E**
					PROJECT NO:	

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\024501_pm.dgn

why not do the shift between Woodridge and Rolling Ridge. Tom Heydel

why are you building this with an offset? Tom Heydel

change 4D to epoxy. Tom Heydel

BEGIN PROJECT
STA 342+31.74

END PROJECT
STA 372+60.00

MEADOWBROOK RD

R/L JOANNE DR

R/L LANCASTER DR

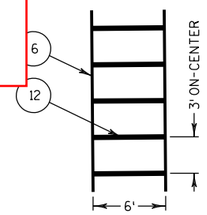
R/L WOODRIDGE LN

R/L MEADOWBROOK RD

R/L ROLLING RIDGE DR

SEE CROSSWALK DETAIL

CROSSWALK DETAIL



LEGEND

- A — PAVEMENT MARKING ARROWS EPOXY TYPE 2
- W — PAVEMENT MARKING WORDS EPOXY
- C — PAVEMENT MARKING CURB EPOXY
- N — PAVEMENT MARKING ISLAND NOSE EPOXY
- 4A — PAVEMENT MARKING EPOXY 4-INCH, WHITE SOLID
- 4B — PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW SOLID
- 4C — PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, SOLID
- 4D — PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, DASHED, 3' LINE W/ 9' GAP
- 4E — PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, DASHED, 12.5' LINE W/ 37.5' GAP
- 6 — PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
- 8A — PAVEMENT MARKING EPOXY 8-INCH, WHITE SOLID
- 8B — PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH, SOLID
- 8C — PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH, DASHED, 3' LINE W/ 9' GAP
- 12 — PAVEMENT MARKING CROSSWALK EPOXY 12-INCH
- 18 — PAVEMENT MARKING STOP LINE EPOXY 18-INCH

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
PAVEMENT MARKING

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:100
PLOT DATE : 10/21/2016

SHEET NO. 103 E
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\024502_pm.dgn

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- W — TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y — TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- X — TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH (WHITE)

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025100_TC.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL LEGEND	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **104** **E** PROJECT NO:

NOTE:

1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.

N

JOANNE DR

R/L JOANNE DR

MEADOWBROOK RD

R/L MEADOWBROOK RD

EXISTING PAVEMENT MARKINGS TO REMAIN

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

LANCASTER DR

R/L LANCASTER DR

BEGIN PROJECT
STA 342+31.74

ASPHALTIC SURFACE TEMPORARY TO BE CONSTRUCTED BY OTHERS

+4.7
+77.3
+21.4
+13.6
12' (TYP)
12' (TYP)

ROAD CLOSED
R11-2
48" X 30"

WOODRIDGE LN

R/L WOODRIDGE LN

EXISTING PAVEMENT MARKINGS TO REMAIN

MEADOWBROOK RD

R/L MEADOWBROOK RD

+50.3
12' (TYP)

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

+14.0
+30.3
+10.0
+23.4
12'

LANE CLOSED
R11-2(MOD)
48" X 30"

RIDGELINE DR

ROLLING RIDGE DR

R/L ROLLING RIDGE DR

+0.0
+15.0
+6.5
12' (TYP)

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 1A	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **105** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025101_TC.dgn

NOTE:

1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.

N

ROAD WORK AHEAD
W20-1

R/L MEADOWBROOK RD

MEADOWBROOK RD

EXISTING PAVEMENT MARKINGS TO REMAIN

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

END PROJECT
STA 372+60.00

END ROAD WORK
G20-2A
48" X 24"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

MEADOWBROOK RD

JOANNE DR

R/L LANCASTER DR

LANCASTER DR

WILLARD LN

EVANSDALE DR

R/L EVANSDALE DR

R/L MEADOWBROOK RD

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 1A	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **106** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025102_TC.dgn

NOTE:
1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.
2) APPLICABLE TEMPORARY PAVEMENT MARKINGS FROM PREVIOUS STAGE TO REMAIN.

N

ROAD CLOSED
R11-2
48" X 30"

R/L JOANNE DR

JOANNE DR

MEADOWBROOK RD

R/L MEADOWBROOK RD

EXISTING PAVEMENT MARKINGS TO REMAIN

ASPHALTIC SURFACE TEMPORARY TO BE CONSTRUCTED BY OTHERS

BEGIN PROJECT
STA 342+31.74

LANCASTER DR

R/L LANCASTER DR

RIDGELINE DR

ROAD CLOSED
R11-2
48" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

STOP
R1-1
30" X 30"

WOODRIDGE LN

ROLLING RIDGE DR

MEADOWBROOK RD

EXISTING PAVEMENT MARKINGS TO REMAIN

R/L MEADOWBROOK RD

R/L WOODRIDGE LN

R3-2
24" X 24"

MAINTAIN PEDESTRIAN ACCESS ACROSS 3 LEGS OF INTERSECTION AT ALL TIMES

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

R/L ROLLING RIDGE DR

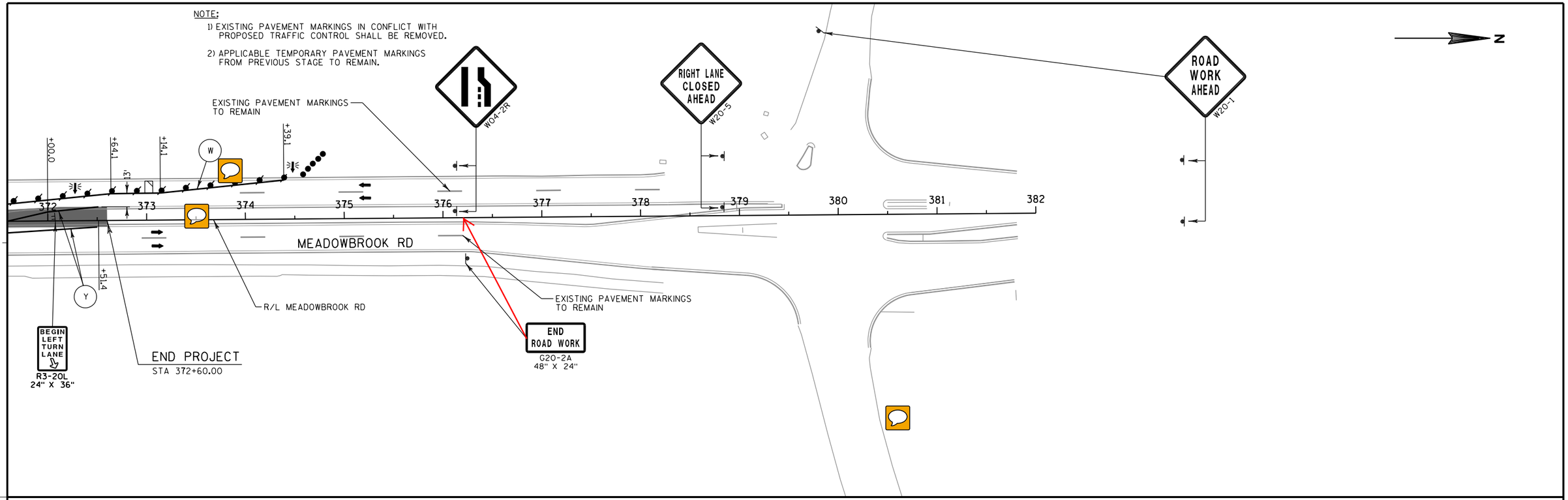
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 1B	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **107** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\0251111_TC.dgn

NOTE:

1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.

2) APPLICABLE TEMPORARY PAVEMENT MARKINGS FROM PREVIOUS STAGE TO REMAIN.



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 1B	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **108** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025112_TC.dgn

NOTE:

1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.

N

ASPHALTIC SURFACE TEMPORARY TO BE CONSTRUCTED BY OTHERS

BEGIN PROJECT
STA 342+31.74

MEADOWBROOK RD

JOANNE DR

R/L JOANNE DR

LANCASTER DR

R/L LANCASTER DR

STOP
R1-1
30" X 30"

R/L MEADOWBROOK RD

ROAD CLOSED
R11-2
48" X 30"

WOODRIDGE LN

R/L WOODRIDGE LN

ROAD CLOSED
R11-2
48" X 30"

ROLLING RIDGE DR

R/L ROLLING RIDGE DR

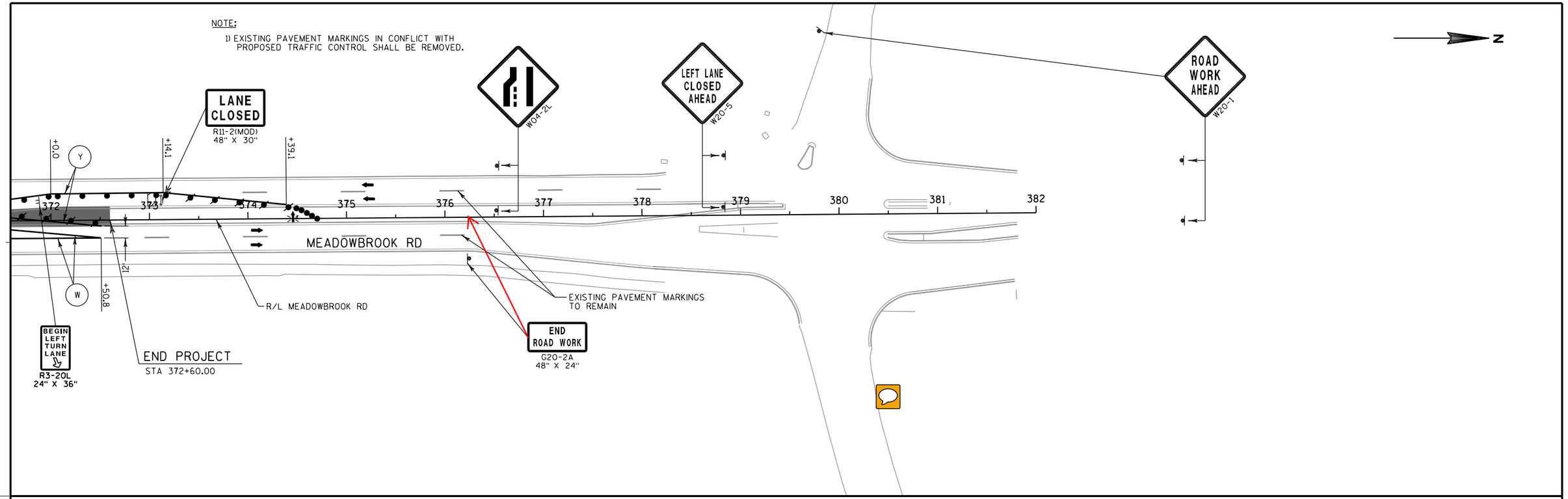
BEGIN LEFT TURN LANE
R3-20L
24" X 36"

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 2A	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **109**	**E**
					PROJECT NO:	

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025201_TC.dgn

NOTE:

1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 2A	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **110** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025202_TC.dgn

NOTE:

1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.

2) APPLICABLE TEMPORARY PAVEMENT MARKINGS FROM PREVIOUS STAGE TO REMAIN.

N

ASPHALTIC SURFACE TEMPORARY TO BE CONSTRUCTED BY OTHERS

BEGIN PROJECT
STA 342+31.74

ROAD CLOSED
R11-2
48" X 30"

JOANNE DR

R/L JOANNE DR

R/L MEADOWBROOK RD

MEADOWBROOK RD

R/L LANCASTER DR

WOODRIDGE LN

R/L WOODRIDGE LN

STOP
R1-1
30" X 30"

ROLLING RIDGE DR

R/L ROLLING RIDGE DR

R3-2
24" X 24"

MAINTAIN PEDESTRIAN ACCESS ACROSS 3 LEGS OF INTERSECTION AT ALL TIMES

ROAD CLOSED
R11-2
48" X 30"

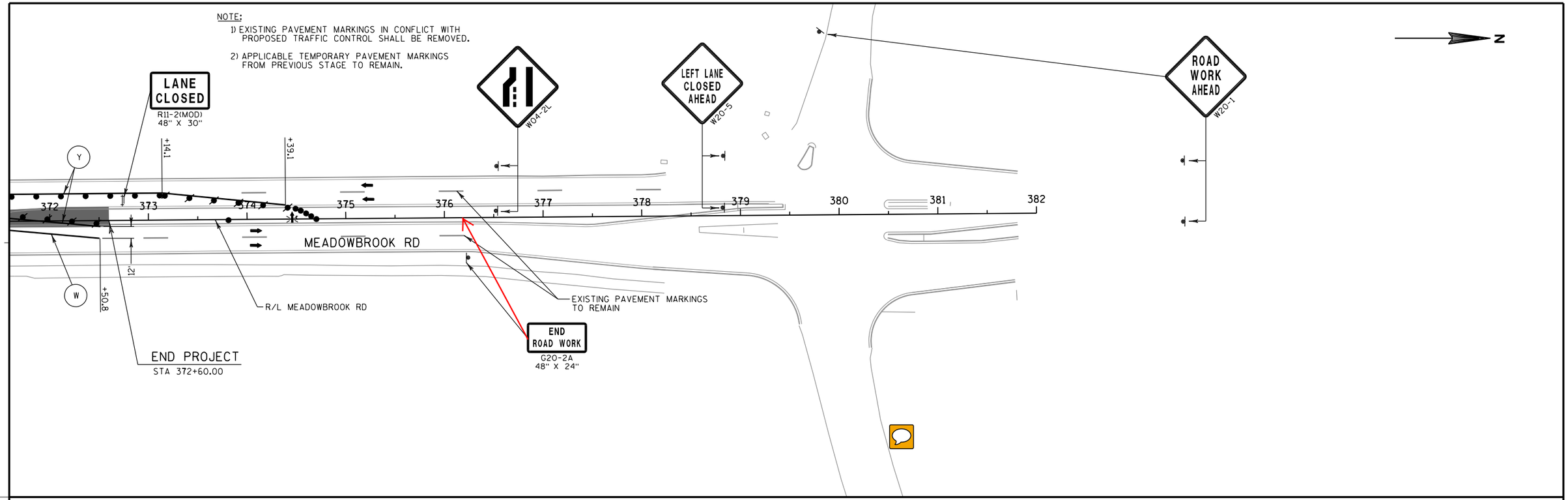
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 2B	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. 111 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025211_TC.dgn

NOTE:

1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.

2) APPLICABLE TEMPORARY PAVEMENT MARKINGS FROM PREVIOUS STAGE TO REMAIN.



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 2B	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **112** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025212_TC.dgn

NOTE:

1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.

N

JOANNE DR

R/L JOANNE DR

R/L MEADOWBROOK RD

MEADOWBROOK RD

LANCASTER DR

R/L LANCASTER DR

BEGIN PROJECT
STA 342+31.74

WOODRIDGE LN

R/L WOODRIDGE LN

ROLLING RIDGE DR

R/L ROLLING RIDGE DR

ROAD CLOSED
R11-2
48" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

R3-2
24" X 24"

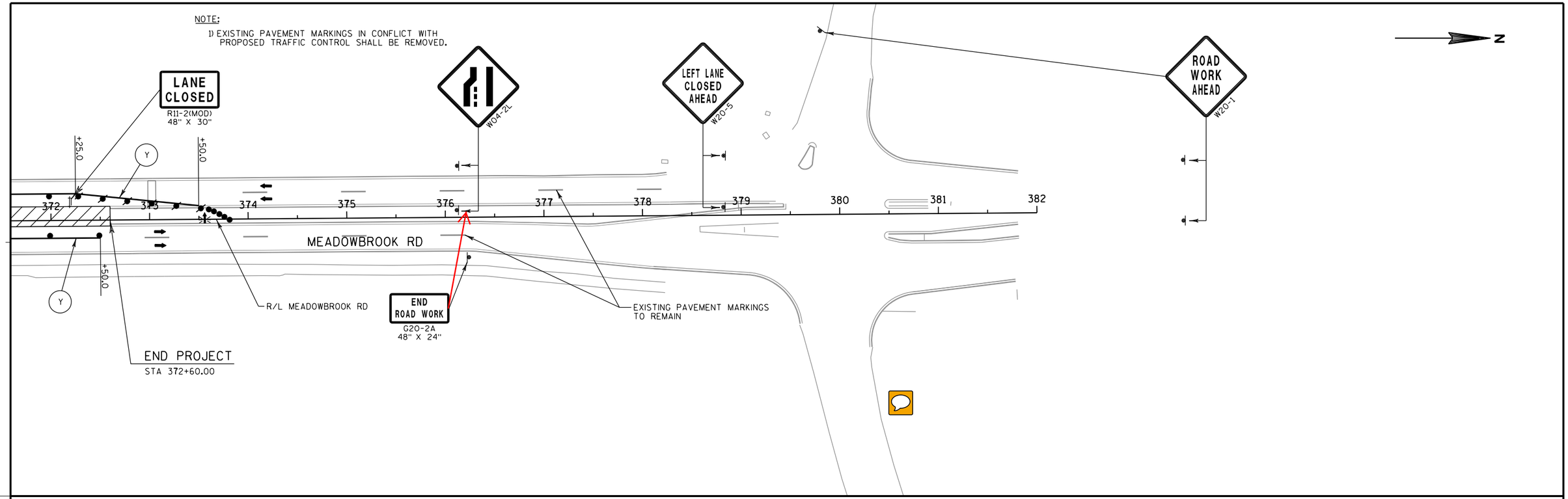
MAINTAIN PEDESTRIAN ACCESS ACROSS 3 LEGS OF INTERSECTION AT ALL TIMES

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 3	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. 113 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025301_TC.dgn

NOTE:

1) EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SHALL BE REMOVED.



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD TRAFFIC CONTROL STAGE 3	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:100 PLOT DATE : 10/21/2016	SHEET NO. **114** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\025302_TC.dgn

CURVE 1	CURVE 2	CURVE 3	CURVE 4	CURVE 5	CURVE 6	CURVE 7	CURVE 8	CURVE 9	CURVE 10
PC = 333+42.79	PC = 345+26.92	PC = 348+91.34	PC = 47+75.00	PC = 50+85.15	PRC = 52+29.81	PC = 55+10.45	PC = 50+56.99	PC = 47+25.00	PC = 51+15.11
X = 668790.18	X = 668743.48	X = 668728.96	X = 668506.56	X = 668816.14	X = 668953.46	X = 669225.47	X = 668798.28	X = 668477.90	X = 668864.50
Y = 169548.50	Y = 170731.35	Y = 171095.47	Y = 171048.23	Y = 171039.63	Y = 171000.26	Y = 170953.23	Y = 172560.86	Y = 173196.62	Y = 173163.32
PI = 336+25.76	PI = 345+79.90	PI = 350+38.36	PI = 48+07.28	PI = 51+59.35	PI = 53+16.81	PI = 57+20.45	PI = 52+26.13	PI = 48+12.15	PI = 52+82.38
X = 668795.70	X = 668740.41	X = 668723.55	X = 668538.01	X = 668890.34	X = 669027.47	X = 669435.46	X = 668967.41	X = 668559.99	X = 669031.76
Y = 169831.42	Y = 170784.24	Y = 171242.38	Y = 171040.98	Y = 171039.27	Y = 170954.52	Y = 170951.86	Y = 172558.94	Y = 173167.37	Y = 173161.09
PT = 339+08.45	PT = 346+32.88	PT = 351+85.31	PT = 48+39.29	PRC = 52+29.81	PT = 53+99.45	PT = 58+41.14	PT = 53+95.08	PT = 48+97.72	PT = 53+84.66
X = 668779.31	X = 668738.46	X = 668725.53	X = 668570.29	X = 668953.46	X = 669114.47	X = 669438.28	X = 669135.80	X = 668647.13	X = 669041.78
Y = 170113.91	Y = 170837.19	Y = 171389.39	Y = 171040.82	Y = 171000.26	Y = 170953.95	Y = 171161.84	Y = 172543.04	Y = 173166.21	Y = 172994.12
R = 7300.00	R = 5000.00	R = 5853.76	R = 290.07	R = 263.64	R = 310.09	R = 211.46	R = 4079.42	R = 525.00	R = 180.00
DELTA = 4°26'23" LT	DELTA = 1°12'51" RT	DELTA = 2°52'39" RT	DELTA = 12°41'56" LT	DELTA = 31°26'03" RT	DELTA = 31°20'40" LT	DELTA = 89°36'15" LT	DELTA = 4°44'54" RT	DELTA = 18°50'59" LT	DELTA = 85°48'03" RT
D = 0° 47'06"	D = 1°08'45"	D = 0°58'44"	D = 19°45'09"	D = 21°43'58"	D = 18°28'38"	D = 27°05'45"	D = 1°24'16"	D = 10°54'48"	D = 31°49'52"
L = 565.66	L = 105.96	L = 293.97	L = 64.29	L = 144.66	L = 169.64	L = 330.69	L = 338.09	L = 172.72	L = 269.55
T = 282.97	T = 52.98	T = 147.02	T = 32.28	T = 74.20	T = 87.00	T = 210.00	T = 169.14	T = 87.15	T = 167.27
BK = N 1°07'07" E	BK = N 3°19'16" W	BK = N 2°06'25" W	BK = S 77°01'20" E	BK = S 89°43'16" E	BK = S 58°16'58" E	BK = S 89°37'38" E	BK = S 89°21'08" E	BK = S 70°23'15" E	BK = S 89°14'14" E
AH = N 3°19'16" W	AH = N 2°06'25" W	AH = N 0°46'14" E	AH = S 89°43'16" E	AH = S 58°16'58" E	AH = S 89°37'38" E	AH = N 0°46'08" E	AH = S 84°36'14" E	AH = S 89°14'14" E	AH = S 3°26'11" E
S.E. = N.C.	S.E. = N.C.	S.E. = N.C.	S.E. = N.C.	S.E. = N.C.	S.E. = N.C.	S.E. = N.C.	S.E. = N.C.	S.E. = N.C.	S.E. = N.C.

N

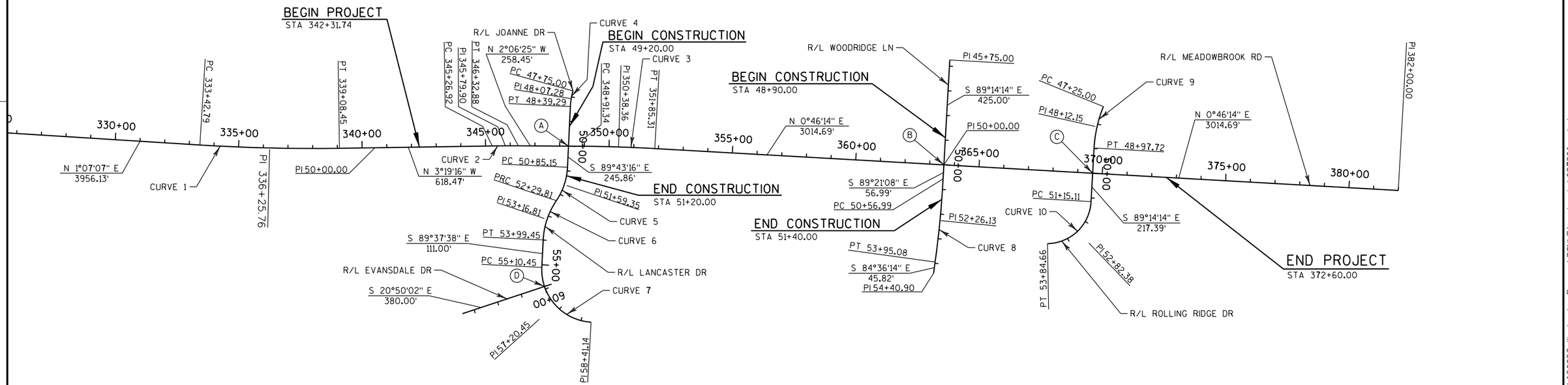
INTERSECTIONS

(A) STA 348+35.88 MEADOWBROOK RD =
STA 50+00.00 JOANNE DR/LANCASTER DR

(B) STA 363+57.53 MEADOWBROOK RD =
STA 50+00.00 WOODRIDGE LN

(C) STA 369+60.93 MEADOWBROOK RD =
STA 50+00.00 ROLLING RIDGE DR

(D) STA 55+88.71 LANCASTER DR =
STA 60+00.00 EVANSDALE DR



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD ALIGNMENT	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:400 PLOT DATE : 10/21/2016	SHEET NO. **115** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\027201_cd.dgn

EXISTING R/W

WAUKESHA COUNTY

NORTHVIEW RD

RONALD & PATRICIA SENNOTT

CITY OF WAUKESHA WATER UTILITY

N

SLOPE INTERCEPT

TLE

BM 709

MATCH LINE STA 344+00

EXISTING R/W

R/W

CAUTION

MEADOWBROOK RD

PT 339+08.45

SIGN

POST

338 339 340 341 342 343 344

BEGIN PROJECT
STA 342+31.74

R/L MEADOWBROOK RD

EXISTING R/W

TLE

SLOPE INTERCEPT

NORTHVIEW RD

CITY OF WAUKESHA

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
710	337+98.48 LT	RAILROAD SPIKE SET IN EAST FACE OF	982.99
		194 SIGN SOUTH OF NORTHVIEW RD;	
		WEST SIDE OF CTH TT	

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
709	343+67.82 LT	CHISEL X ON SW TOP OF 1st HYDRANT	994.71
		NORTH OF NORTHVIEW RD.	
		ON WEST SIDE OF CTH TT	

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050101_PP.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **116**	**E**
					PROJECT NO:	

1004
1002
1000
998
996
994
992
990
988
986
984
982
980
978
976
974
972
970

PVI STA 342+50.00
PVI EL 998.08

EXISTING PROFILE AT R/L

341+92.53
991.47

PROPOSED PROFILE AT NB PGL

S=3.06%

PVC STA 338+75.00
PVC EL 986.61

VCL 750.00
K 103.84

EXISTING ELEVATION AT R/L
PROPOSED ELEVATION AT NB PGL

338+00	338+50	339+00	339+50	340+00	340+50	341+00	341+50	342+00	342+50	343+00	343+50	344+00
984.10 / **984.32**	984.94 / **985.08**	985.77 / **985.85**	986.52 / **986.61**	987.36 / **987.35**	988.10 / **988.02**	988.72 / **988.64**	989.19 / **989.19**	989.74 / **989.68**	990.52 / **990.12**	991.22 / **990.49**	991.17 / **990.80**	990.99 / **991.06**	991.29 / **991.25**	991.87 / **991.38**	992.27 / **991.45**	992.55 / **991.46**	992.67 / **991.42**	992.57 / **991.31**	992.41 / **991.14**	992.15 / **990.91**	991.89 / **990.62**	991.79 / **990.27**	991.43 / **989.86**	990.88 / **989.39**

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
PROFILE

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:40
PLOT DATE : 10/21/2016

SHEET NO. **117** **E**
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050101A_PP.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PROFILE	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **118** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050101B_PP.dgn

JASON P & KIM M WALCZAK

GREGORY P & KIMBERLY J NEWTON

PATRICIA J STREICH

THE WINBERG TRUST

THE WINBERG TRUST

CITY OF WAUKESHA WATER UTILITY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
708	347+94.07 LT	WSW LOWER FLANGE BOLT ON HYDRANT	977.59
		IN SW QUADRANT OF JOANNE DR.	
		AND CTH TT	

N

JOANNE DR

R/L JOANNE DR

STA 348+35.88 MEADOWBROOK RD =
STA 50+00.00 JOANNE DR/LANCASTER DR

SLOPE INTERCEPT

MATCH LINE STA 344+00

MATCH LINE STA 350+00

BM 708

R/L MEADOWBROOK RD

SLOPE INTERCEPT

EXISTING R/W

EXISTING R/W

EXISTING R/W

PI 345+79.80

MEADOWBROOK RD

344

345

346

347

348

349

350

CAUTION

CAUTION

CAUTION

PC 345+26.92

PT 346+32.88

PC 348+91.34

PC 50+85.15

PI 51+59.35

R/L LANCASTER DR

LANCASTER DR

SLOPE INTERCEPT

SLOPE INTERCEPT

EXISTING R/W

EXISTING R/W

PRC 52+29.81

KEVIN M HESSE
JENNIFER J BOETTCHER

CITY OF WAUKESHA

ZIJIAN CUI
FANG CHAO

DANIEL N PAIGE

MICHAEL R &
JOLEEN L METCALF

FRANCIS C ROGERS &
(RUTH PRAGER)

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **119** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050102_PP.dgn

EXISTING PROFILE AT R/L

PROPOSED PROFILE AT NB PGL

VCL 750.00
K 103.84

PVT STA 346+25.00
PVT EL 982.46

S=-4.16%

PVC STA 346+48.24
PVC EL 981.49

VCL 550.00
K 66.41

PVI STA 349+24.82
975.73

PVI STA 349+23.24
PVI EL 970.04

EXISTING ELEVATION AT R/L
PROPOSED ELEVATION AT NB PGL

344+00	344+50	345+00	345+50	346+00	346+50	347+00	347+50	348+00	348+50	349+00	349+50	350+00
990.88 / **989.39**	990.28 / **988.87**	989.61 / **988.28**	988.74 / **987.63**	987.75 / **986.92**	986.81 / **986.14**	985.77 / **985.31**	984.66 / **984.42**	983.59 / **983.47**	982.55 / **982.46**	981.43 / **981.42**	980.40 / **980.43**	979.43 / **979.54**	978.54 / **978.74**	977.82 / **978.03**	977.21 / **977.42**	976.76 / **976.91**	976.58 / **976.48**	976.35 / **976.16**	975.96 / **975.92**	975.92 / **975.78**	975.90 / **975.73**	976.24 / **975.78**	976.49 / **975.92**	976.78 / **976.16**

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
PROFILE

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:40
PLOT DATE : 10/21/2016

SHEET NO. **120** **E**
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050102A_PP.dgn

VCL 750.00
K 101.00

PVT STA 346+25.00
PVT EL 982.80

VCL 550.00
K 64.00

PVC STA 346+40.20
PVC EL 982.15

PROPOSED PROFILE AT SB PGL

EXISTING PROFILE AT R/L

349+14.65
976.26

PVI STA 349+15.20
PVI EL 970.36

EXISTING ELEVATION AT R/L
PROPOSED ELEVATION AT SB PGL

344+00	344+50	345+00	345+50	346+00	346+50	347+00	347+50	348+00	348+50	349+00	349+50	350+00
990.88 / **989.94**	990.28 / **989.40**	989.61 / **988.79**	988.74 / **988.12**	987.75 / **987.39**	986.81 / **986.59**	985.77 / **985.74**	984.66 / **984.82**	983.59 / **983.84**	982.55 / **982.80**	981.43 / **981.74**	980.40 / **980.75**	979.43 / **979.86**	978.54 / **979.07**	977.82 / **978.38**	977.21 / **977.79**	976.76 / **977.29**	976.58 / **976.89**	976.35 / **976.59**	975.96 / **976.39**	975.92 / **976.28**	975.90 / **976.27**	976.24 / **976.36**	976.49 / **976.55**	976.78 / **976.83**

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
PROFILE

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:40
PLOT DATE : 10/21/2016

SHEET NO. **121** **E**
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050102B_PP.dgn

THE WINBERG TRUST

FREDERICK J & JULIA CARSKY III

DANIEL T GRENZ

DARLENE M & ARNOLD C MC CLAIN

ALEX LEYKIN

FREDERICK J & JULIA CARSKY III

MATCH LINE STA 350+00

MATCH LINE STA 356+00

BM 707

EXISTING R/W

SLOPE INTERCEPT

PI 350+38.36

PT 351+89.31

MEADOWBROOK RD

SLOPE INTERCEPT

R/L MEADOWBROOK RD

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
707	350+89.27 LT	WNW LOWER FLANGE BOLT ON 1st	981.58
		HYDRANT NORTH OF JOANNE DR.	
		WEST SIDE OF CTH TT	

FRANCIS C ROGERS & (RUTH PRAGER)

MICHAEL & THERESA HOSKING

WINDINGS MAINTENANCE CORP

ROBT W & CYNTHIA L PAGE

BARRY J & SUSAN A WEYER

SEPC

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 122 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050103_PP.dgn

EXISTING PROFILE AT R/L

PROPOSED PROFILE AT NB PGL

VCL 550.00
K 66.41

PVT STA 351+98.24
PVT EL 981.36

S=4.12%

PVC STA 353+31.52
PVC EL 986.85

VCL 375.00
K 78.16

PVI STA 355+19.02
PVI EL 994.57

EXISTING ELEVATION AT R/L
PROPOSED ELEVATION AT NB PGL

350+00	350+50	351+00	351+50	352+00	352+50	353+00	353+50	354+00	354+50	355+00	355+50	356+00
976.78 / **976.16**	977.21 / **976.49**	977.71 / **976.91**	978.40 / **977.43**	979.09 / **978.04**	980.18 / **978.75**	981.10 / **979.55**	982.05 / **980.45**	983.04 / **981.43**	984.13 / **982.46**	985.08 / **983.49**	986.11 / **984.52**	987.14 / **985.55**	988.11 / **986.58**	988.98 / **987.59**	989.73 / **988.52**	990.49 / **989.37**	991.26 / **990.14**	991.82 / **990.83**	992.38 / **991.44**	992.81 / **991.97**	993.13 / **992.42**	993.43 / **992.79**	993.74 / **993.08**	993.80 / **993.29**

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
PROFILE

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:40
PLOT DATE : 10/21/2016

SHEET NO. **123** **E**
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\0501103A_PP.dgn

1002
1000
998
996
994
992
990
988
986
984
982
980
978
976
974
972
970
968

VCL 550.00
K 64.00

PVT STA 351+90.20
PVT EL 982.20

S=-4.3%

EXISTING PROFILE AT R/L

PROPOSED PROFILE AT SB PGL

PVC STA 353+13.86
PVC EL 987.52

PVI STA 355+01.36
PVI EL 995.59

VCL 375.00
K 75.21

EXISTING ELEVATION AT R/L
PROPOSED ELEVATION AT SB PGL

350+00	350+50	351+00	351+50	352+00	352+50	353+00	353+50	354+00	354+50	355+00	355+50	356+00
976.78	977.21	977.71	978.40	979.09	980.18	981.10	982.05	983.04	984.13	985.08	986.11	987.14
976.83	**977.22**	**977.70**	**978.27**	**978.95**	**979.72**	**980.59**	**981.56**	**982.62**	**983.69**	**984.77**	**985.85**	**986.92**
988.11	988.98	989.73	990.49	991.26	991.82	992.38	992.81	993.13	993.43	993.74	993.80	
987.99	**988.99**	**989.90**	**990.74**	**991.48**	**992.15**	**992.73**	**993.23**	**993.65**	**993.98**	**994.23**	**994.40**	

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PROFILE	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **124** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\0501038_PP.dgn

ALEX LEYKIN

DENNIS & KIM ANDERSON & JUDITH A MIES (LIFE EST)

GREGORY S & JULIE A LOOS

JOHN & MARYANN SONNEMANN

BONNIE DALL

CHRISTOPHER D ANDERSON

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
706	356+25.76 LT	WNW LOWER FLANGE BOLT ON 2nd	997.59
		HYDRANT SOUTH OF WOODRIDGE LN.	
		ON WEST SIDE OF CTH TT	

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
705	361+85.20 LT	WNW LOWER FLANGE BOLT ON 1st	758.71
		HYDRANT SOUTH OF WOODRIDGE LN.	
		ON WEST SIDE OF CTH TT	

MATCH LINE STA 356+00

MATCH LINE STA 362+00

BM 706

BM 705

SLOPE INTERCEPT

EXISTING R/W

CAUTION

MEADOWBROOK RD

356 357 358 359 360 361 362

R/L MEADOWBROOK RD

WINDINGS MAINTENANCE CORP

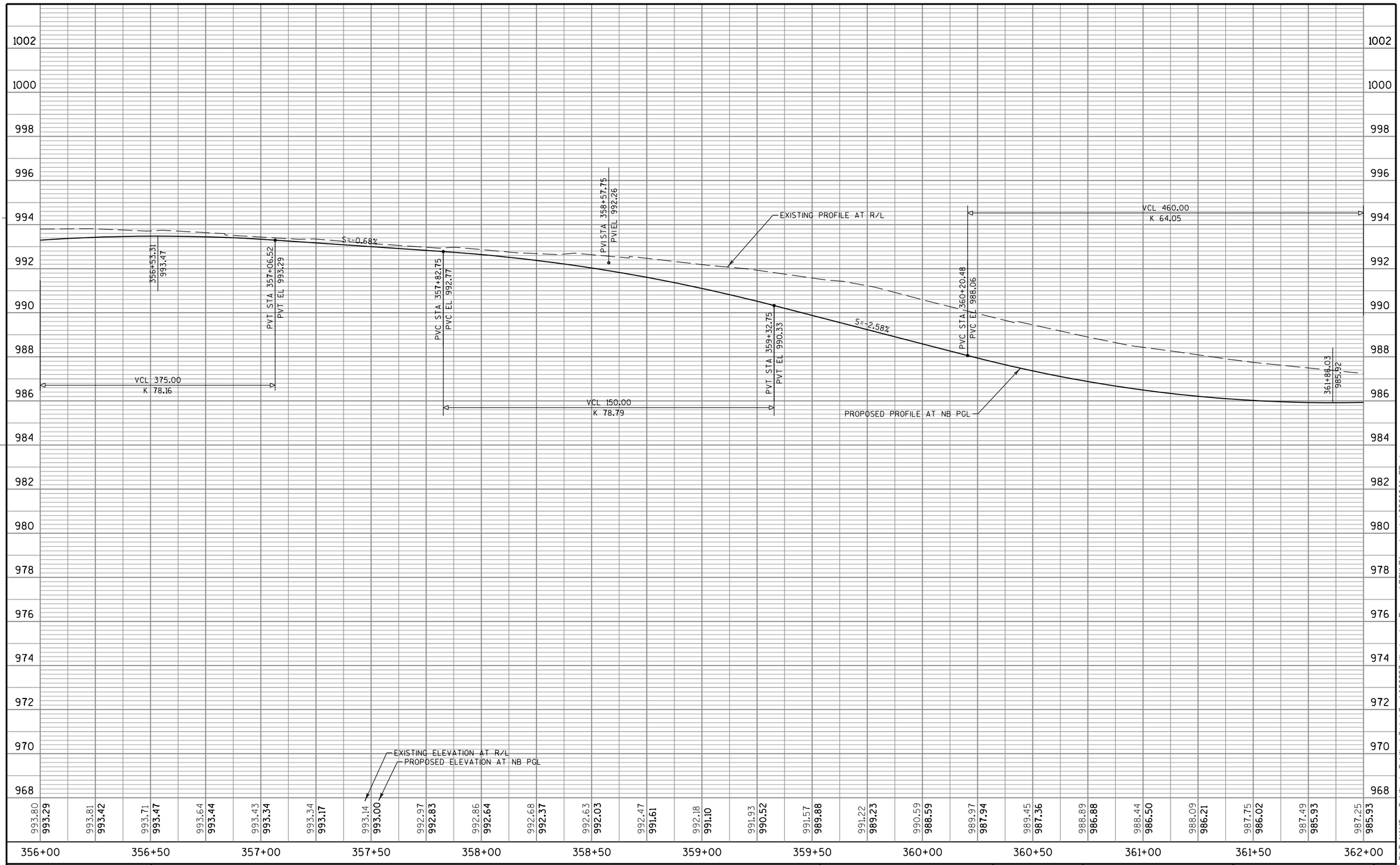
EDWARD P & JANEL A BUCCI

THOKMAS H REILLY

WINDINGS MAINTENANCE CORP

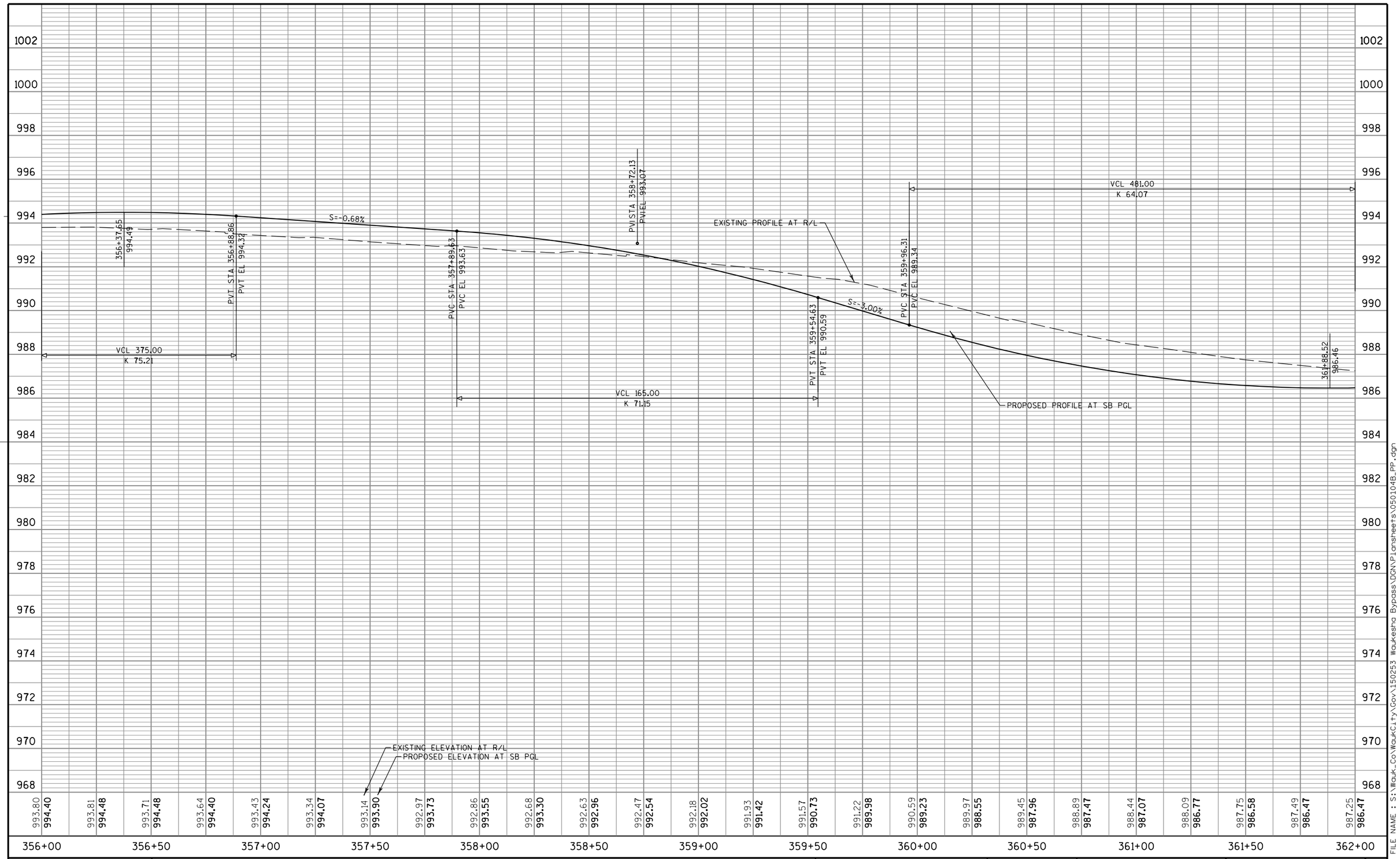
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 125 E PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050104_PP.dgn



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PROFILE	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **126** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050104A_PP.dgn



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PROFILE	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **127** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050104B_PP.dgn

JUSTIN B & KRISTINE M PONZI

RYAN & JAIME ANDERSON

CHRISTOPHER D ANDERSON

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
704	366+03.85 LT	NW LOWER FLANGE BOLT ON 1st	999.82
		HYDRANT NORTH OF ROLLING RIDGE RD,	
		& WOODRIDGE LN ON WEST SIDE	
		OF CTH TT	

R/L WOODRIDGE LN

EXISTING R/W

WOODRIDGE LN

EXISTING R/W

STA 363+57.53 MEADOWBROOK RD =
STA 50+00.00 WOODRIDGE LN

MATCH LINE STA 362+00

MATCH LINE STA 368+00

BM 704

SLOPE INTERCEPT

EXISTING R/W

EXISTING R/W

20'

20'

CAUTION

CAUTION

CAUTION

CAUTION

362

363

364

365

366

367

368

PC 50+56.99

MEADOWBROOK RD

R/L MEADOWBROOK RD

SLOPE INTERCEPT

EXISTING R/W

20'

20'

R/L WOODRIDGE LN

EXISTING R/W

WOODRIDGE LN

EXISTING R/W

WINDINGS MAINTENANCE CORP

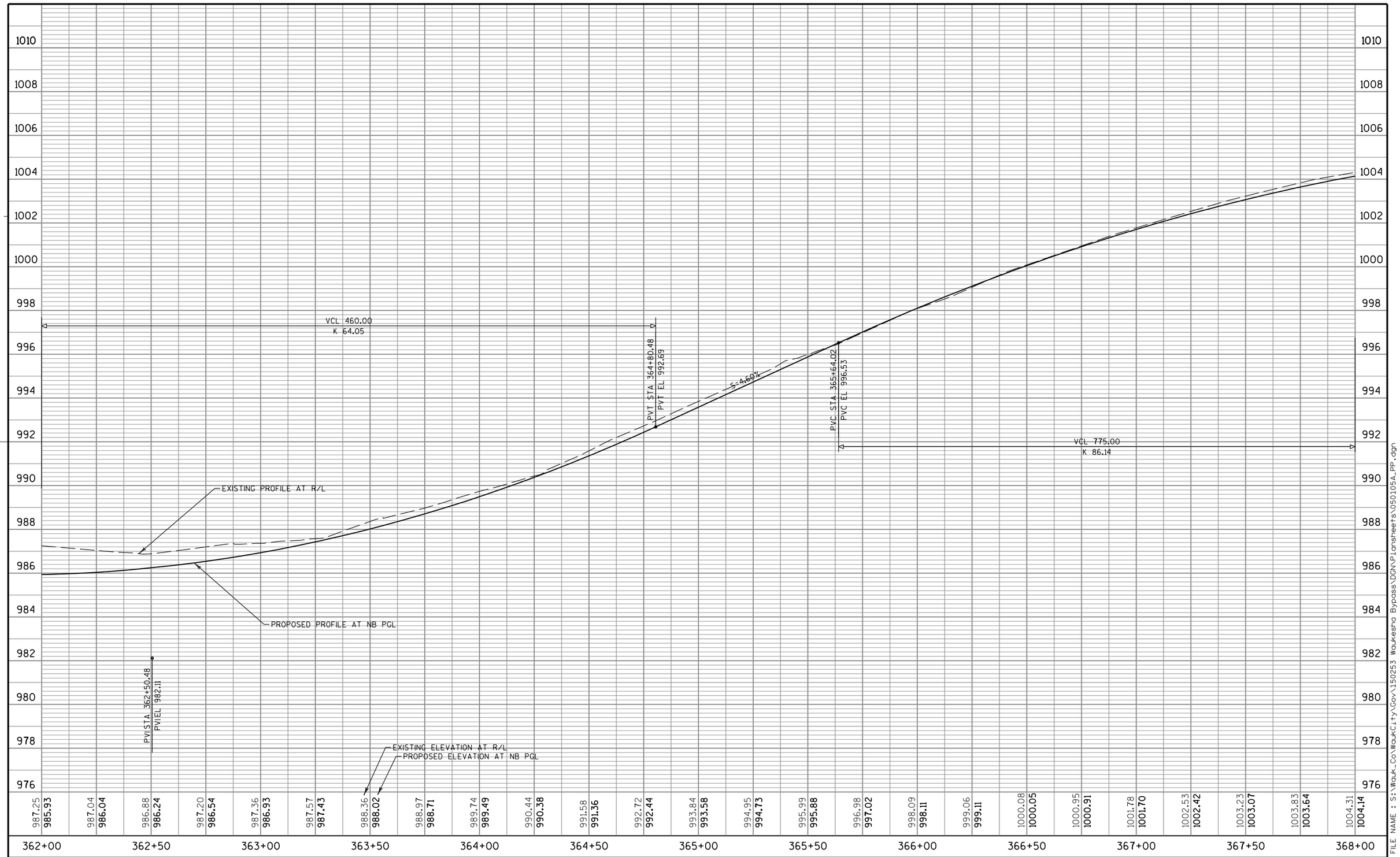
JOSHUA G & JESSICA LAUFENBERG

ERIN M BABCOCK

WINDINGS MAINTENANCE CORP

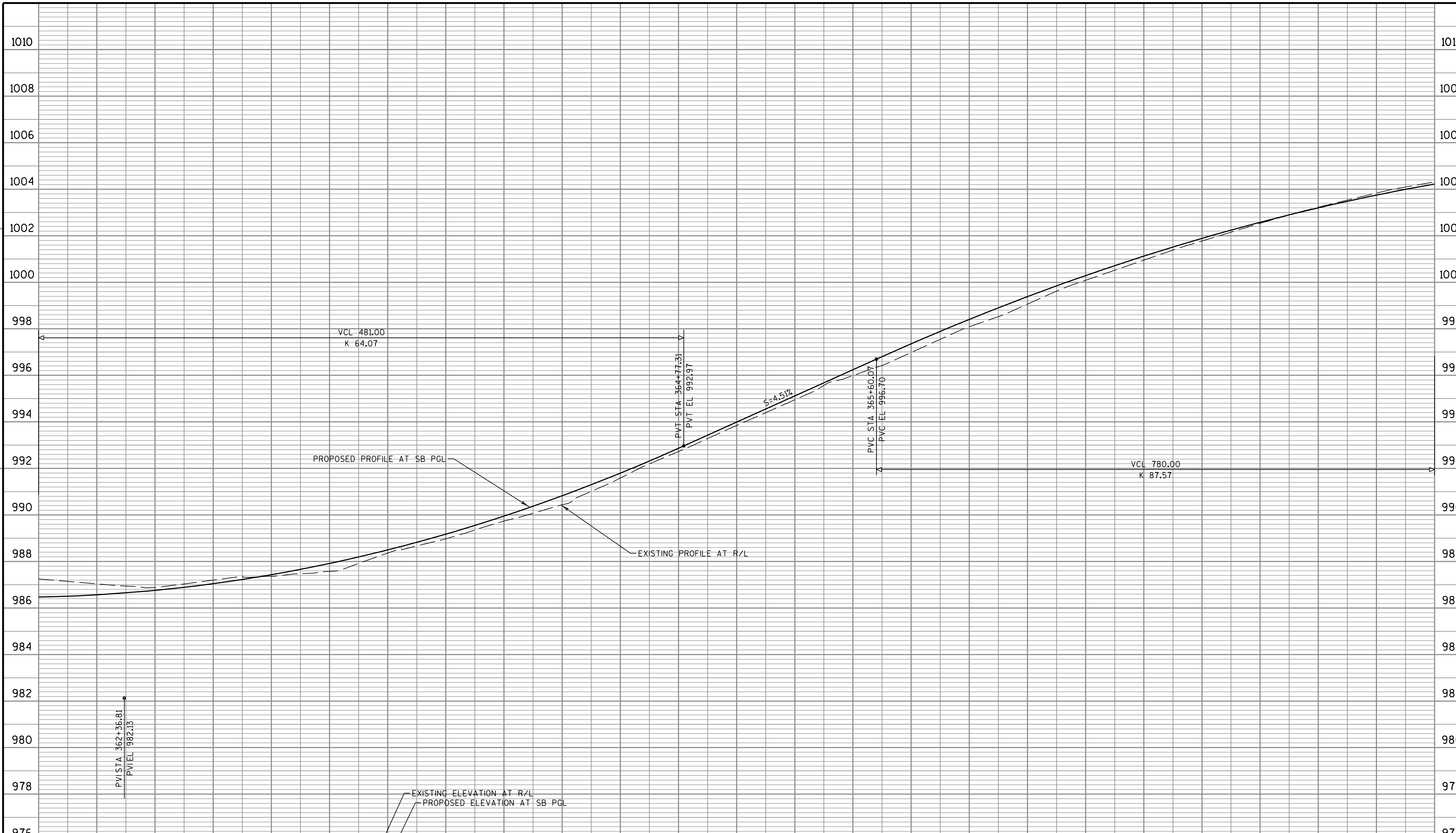
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **128** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050105_PP.dgn



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PROFILE	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **129** **E** PROJECT NO:

FILE NAME = S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050105A_PP.dgn



Station	Existing elevation at R/L	Proposed elevation at SB PGL
362+00	987.25	986.47
	987.04	986.56
362+50	986.88	986.75
	987.20	987.04
363+00	987.36	987.43
	987.57	987.91
363+50	988.36	988.49
	988.97	989.17
364+00	989.74	989.95
	990.44	990.82
364+50	991.58	991.80
	992.72	992.86
365+00	993.84	993.99
	994.95	995.12
365+50	995.99	996.24
	996.98	997.36
366+00	998.09	998.41
	999.06	999.38
366+50	1000.08	1000.29
	1000.95	1001.12
367+00	1001.78	1001.89
	1002.53	1002.58
367+50	1003.23	1003.20
	1003.83	1003.75
368+00	1004.31	1004.23

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
PROFILE

APPROVED:________ DATE:______
APPROVED:________ DATE:______

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:40
PLOT DATE : 10/21/2016

SHEET NO. **130** E
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050105B_PP.dgn

JULIE M MEEUSEN

MICHELLE JODA

LAUREN E & TINA M SHIRLEY

CHRISTOPHER J PLANT

N

EXISTING R/W

ROLLING RIDGE DR

R/L ROLLING RIDGE DR

SLOPE INTERCEPT

STA 369+60.93 MEADOWBROOK RD =
STA 50+00.00 ROLLING RIDGE DR

PT 48+97.72

MATCH LINE STA 368+00

SLOPE INTERCEPT

EXISTING R/W

EXISTING R/W

EXISTING R/W

CAUTION

CAUTION

CAUTION

CAUTION

368 MEADOWBROOK RD

369

370

371

372

373

R/L MEADOWBROOK RD

END PROJECT
STA 372+60.00
MATCH EXISTING
SAWCUT REQUIRED

SLOPE INTERCEPT

EXISTING R/W

EXISTING R/W

R/L ROLLING RIDGE DR

PC 51+15.11

WINDINGS MAINTENANCE CORP

ROLLING RIDGE DR

EXISTING R/W

EXISTING R/W

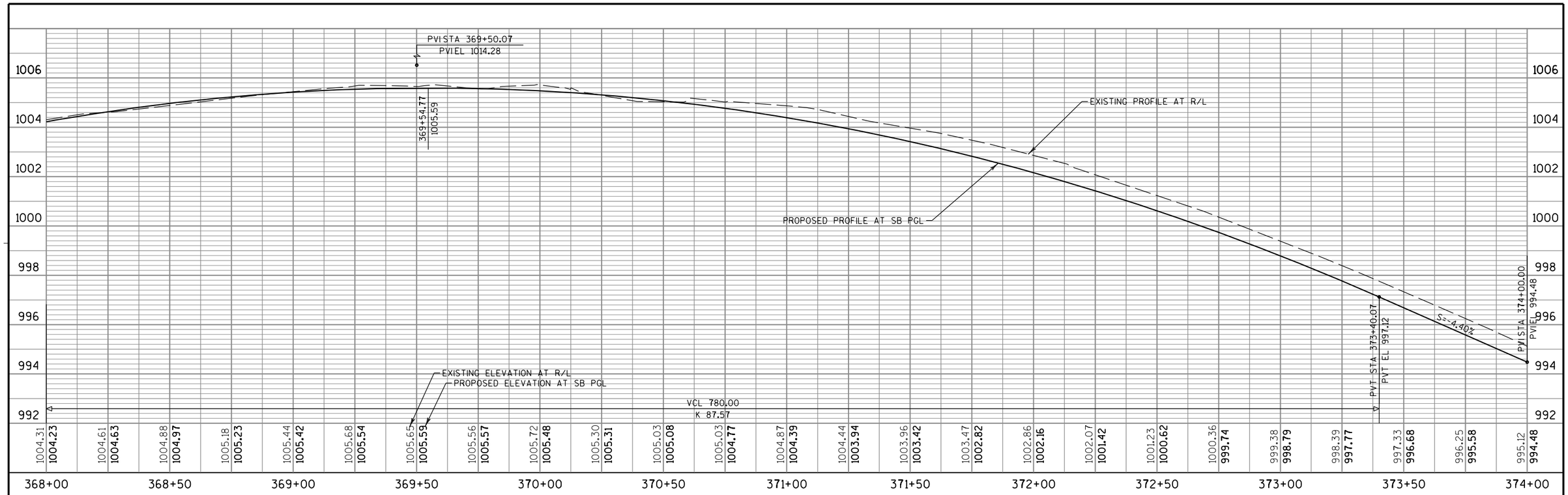
SERGIO &
LINDSEY MEDINA

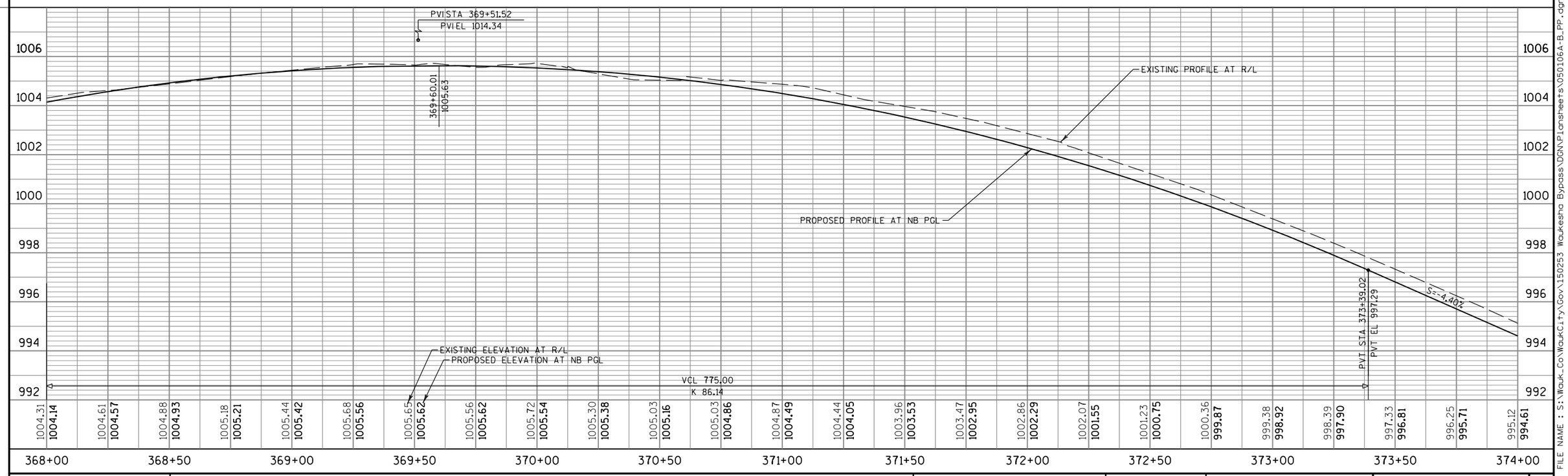
RICHARD & DIANE LUTY

CITY OF WAUKESHA

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050106_PP.dgn

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PLAN	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. 131 E PROJECT NO:





CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD PROFILE	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **132** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050106A-B_PP.dgn

CITY OF WAUKESHA

THE WINBERG TRUST

SLOPE INTERCEPT

R/L MEADOWBROOK RD

MICHAEL R & JOLEEN L METCALF

BEGIN CONSTRUCTION
STA 49+20.00
MATCH EXISTING
SAW CUT REQ'D

STA 50+00.00 JOANNE DR/LANCASTER DR =
STA 348+35.88 MEADOWBROOK RD

PC 47+75.00

PT 48+39.29

PC 348+91.34

PI 51+59.35

SLOPE INTERCEPT

R/L LANCASTER DR

EXISTING R/W

JOANNE DR

MICHAEL R &
JOLEEN L METCALF

EXISTING R/W

LANCASTER DR

EXISTING R/W

R/L JOANNE DR

PI 48+07.28

ERIC A & JENNIFER STEINGRAEBER

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
708	347+94.07 LT	WSW LOWER FLANGE BOLT ON HYDRANT	977.59
		IN SW QUADRANT OF JOANNE DR.	
		AND CTH TT	

BM 708

SLOPE INTERCEPT

CAUTION

CAUTION

CAUTION

PC 50+85.15

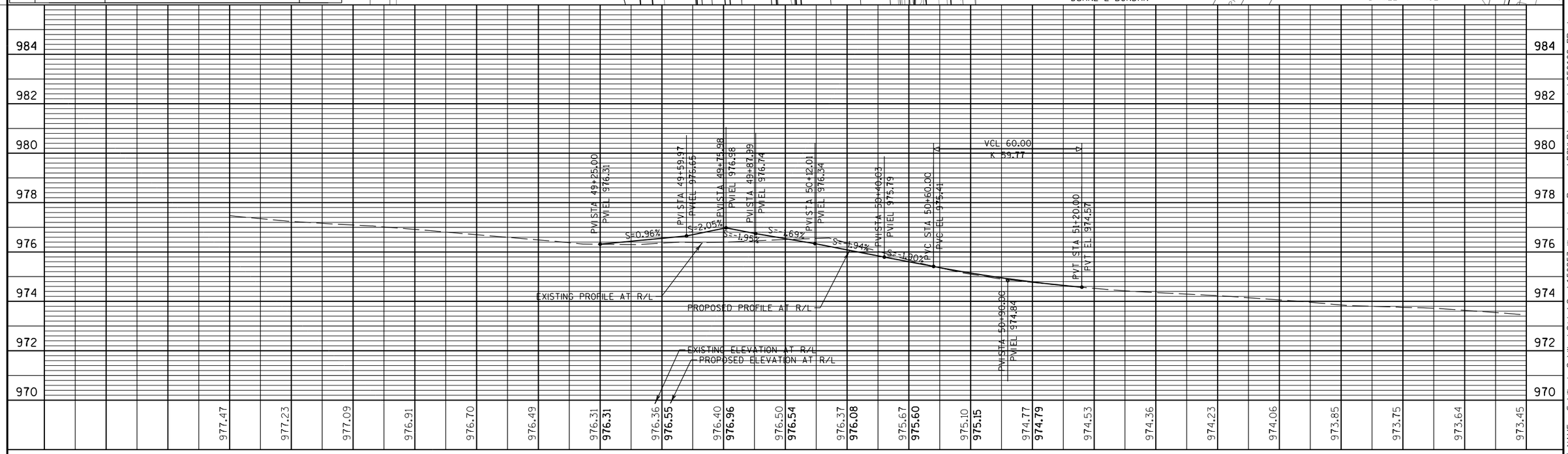
SLOPE INTERCEPT

PRC 52+29.81

PATRICIA J STREICH

DUANE E BONDAR

DANIEL N PAIGE



CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

JOANNE DR & LANCASTER DR
PLAN AND PROFILE

APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:40
PLOT DATE : 10/21/2016

SHEET NO. 133 E
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050108_PP.dgn

EUGENE D JACOBSON
BENJAMIN T & LISA M BERG
RYAN & JAIME ANDERSON
WINDINGS MAINTENANCE CORP
ERIN M BABCOCK
JAMES R PIEKARSKI
GREGORY & JEANETTE SOMPPI
CHRISTOPHER D ANDERSON
BRYAN P & ERIN L HEANEY
WEE-B-KIDS INC

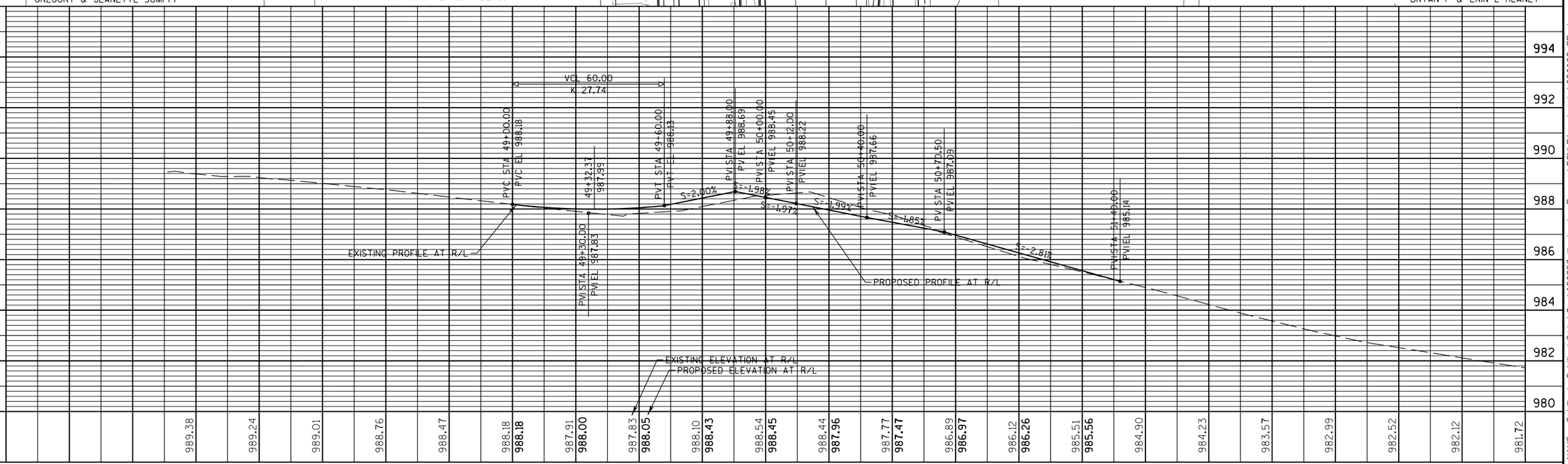
R/L MEADOWBROOK RD
R/L WOODRIDGE LN
WOODRIDGE LANE
SLOPE INTERCEPT
EXISTING R/W
20'
CAUTION
PI 52+26.13
PC 50+56.99

BEGIN CONSTRUCTION
STA 48+90.00
MATCH EXISTING
SAW CUT REQ'D

STA 50+00.00 WOODRIDGE LN =
STA 363+57.53 MEADOWBROOK RD

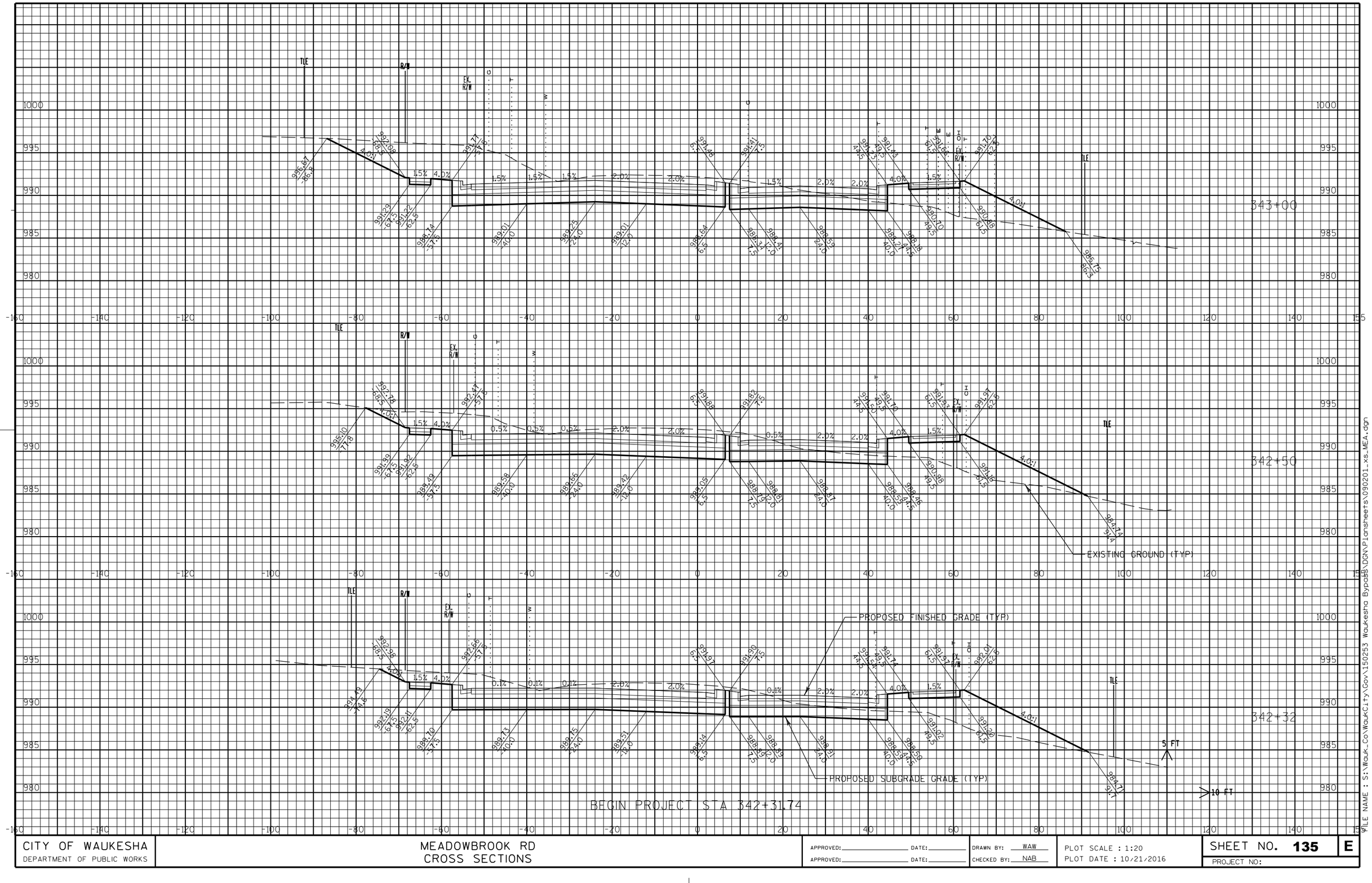
END CONSTRUCTION
STA 51+40.00
MATCH EXISTING
SAW CUT REQ'D

47 48 49 50 51 52 53
363 364



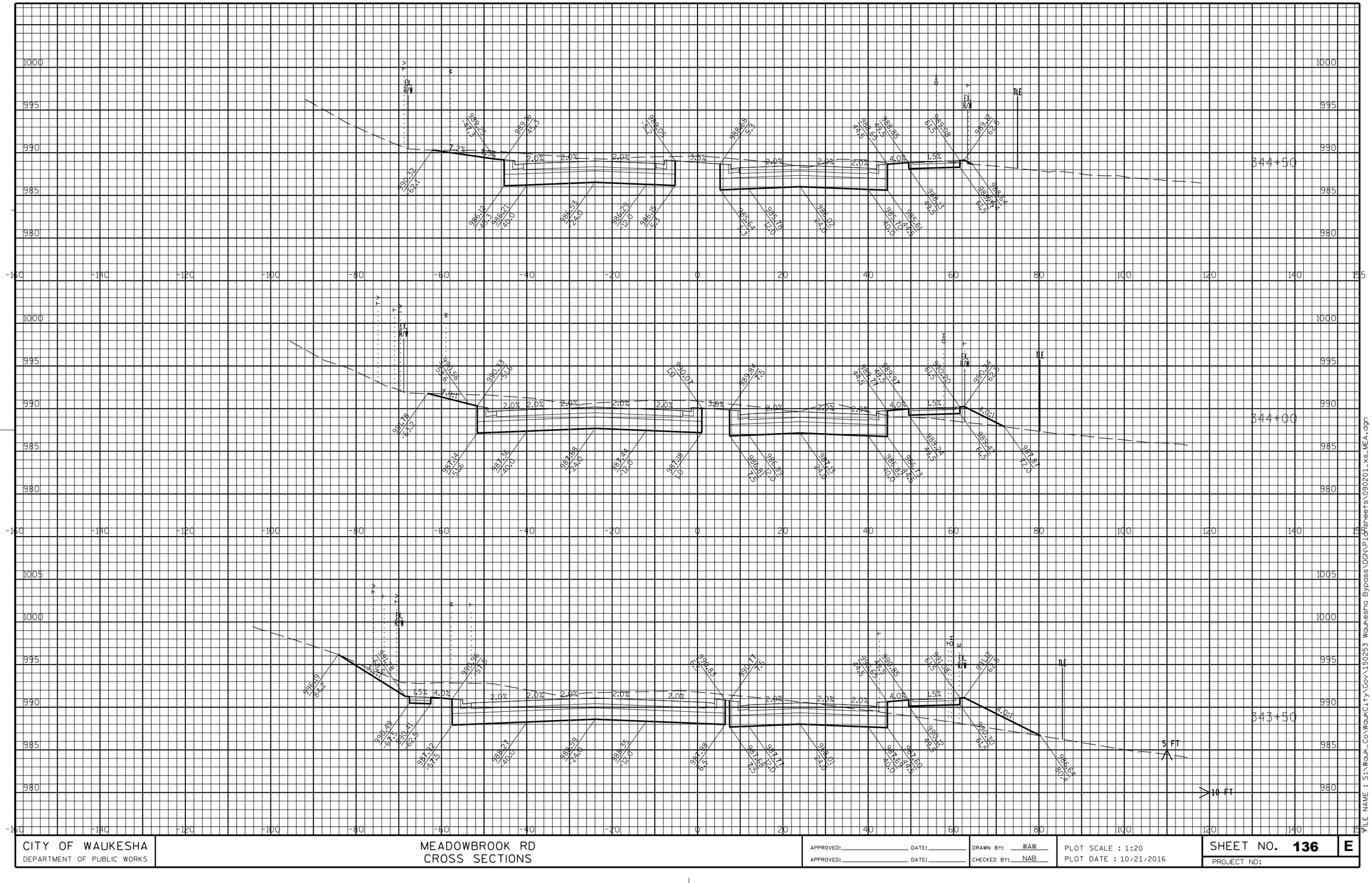
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	WOODRIDGE LANE PLAN AND PROFILE	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB PLOT SCALE : 1:40 PLOT DATE : 10/21/2016	SHEET NO. **134** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\050109_PP.dgn



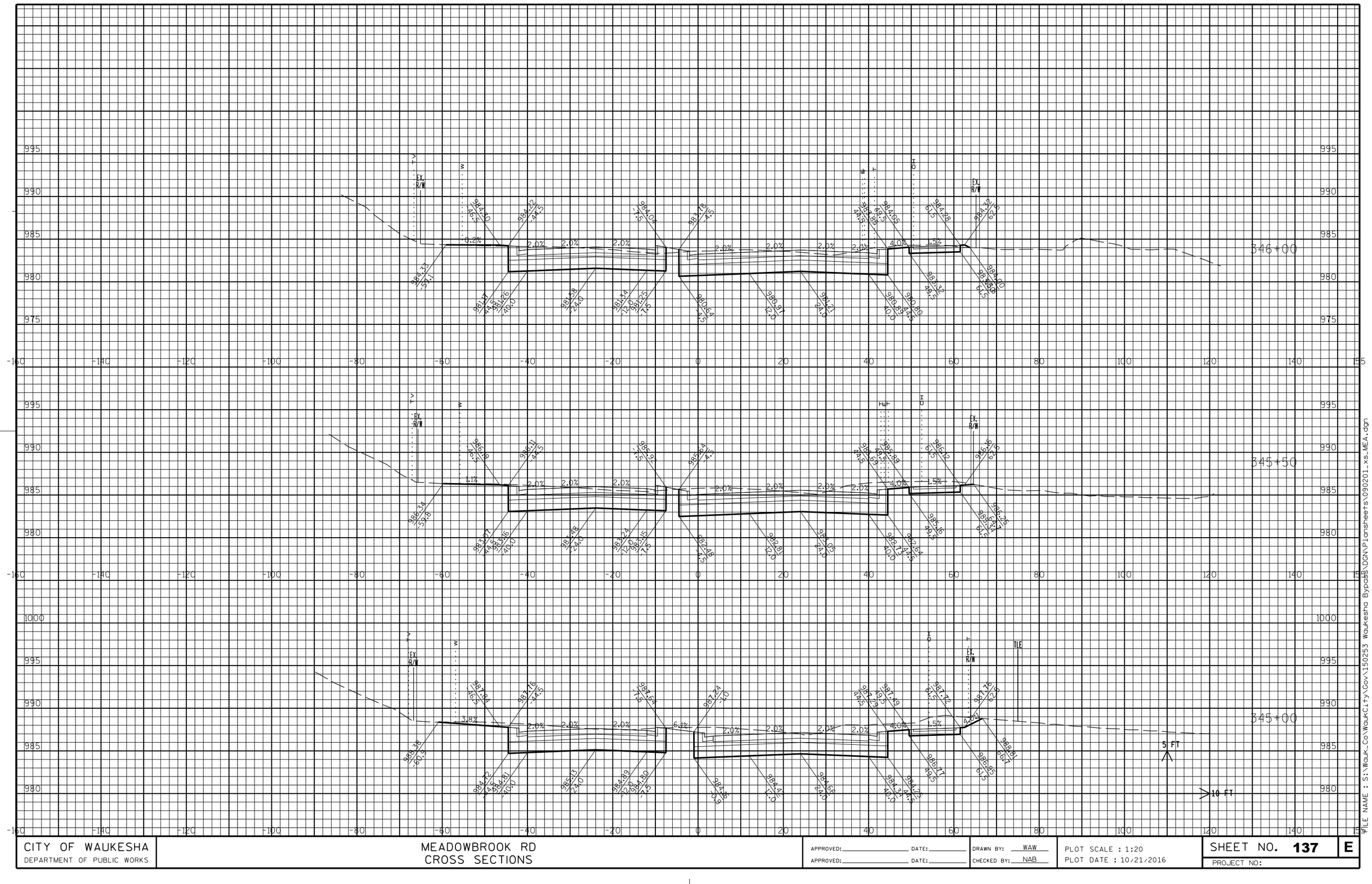
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **135** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



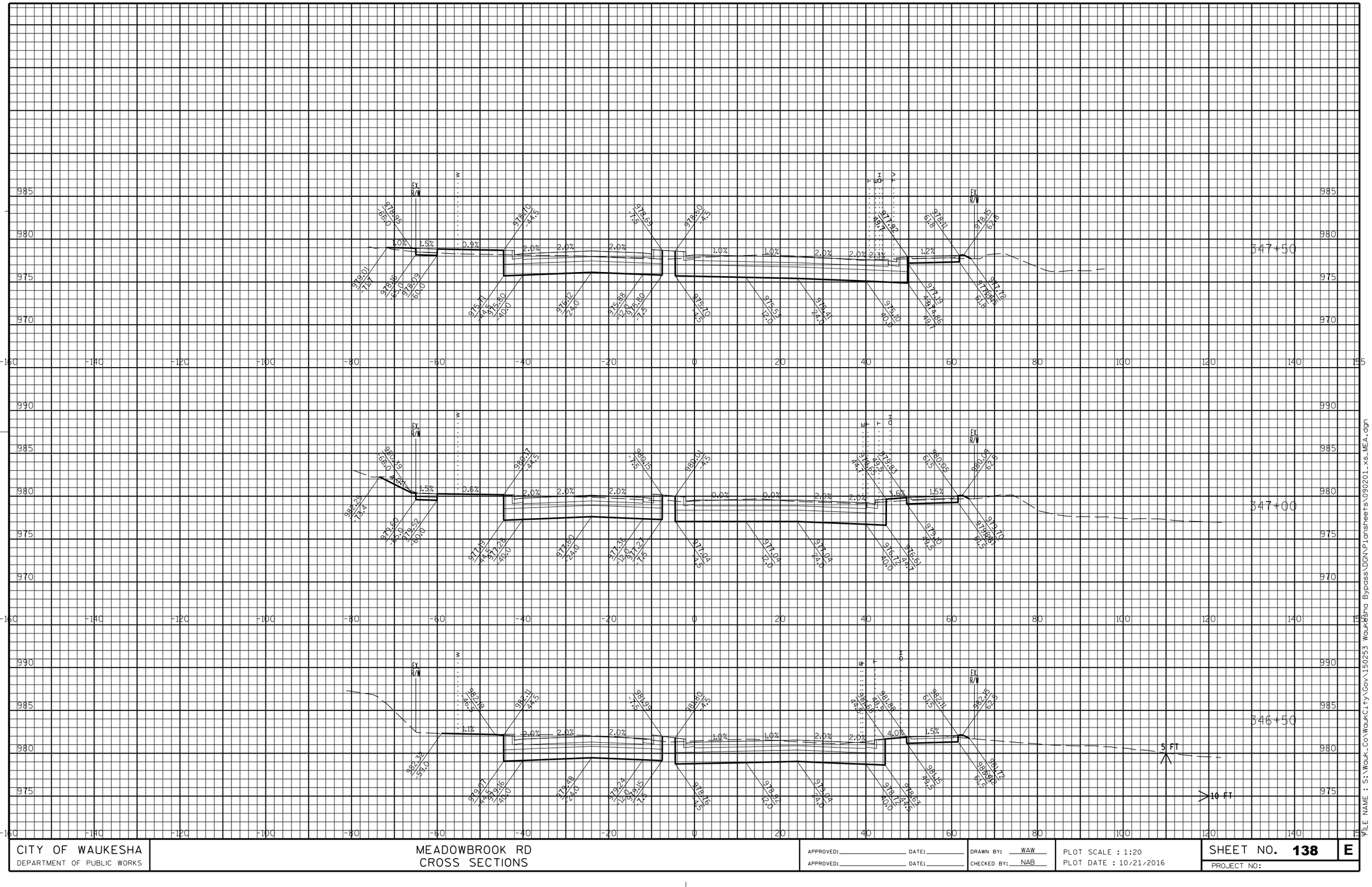
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **136** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plotsheets\090201_xs_MEA.dgn



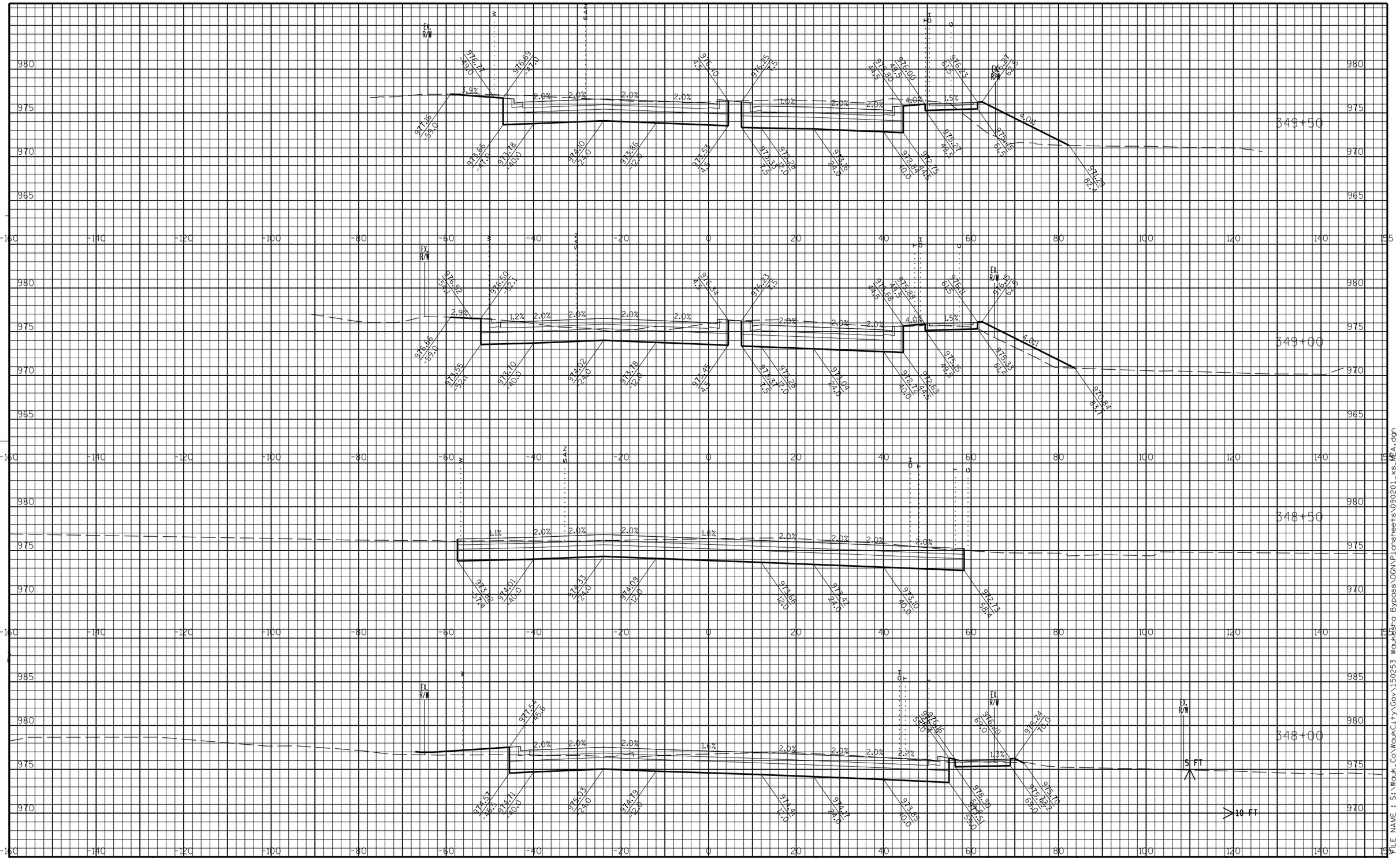
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **137** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



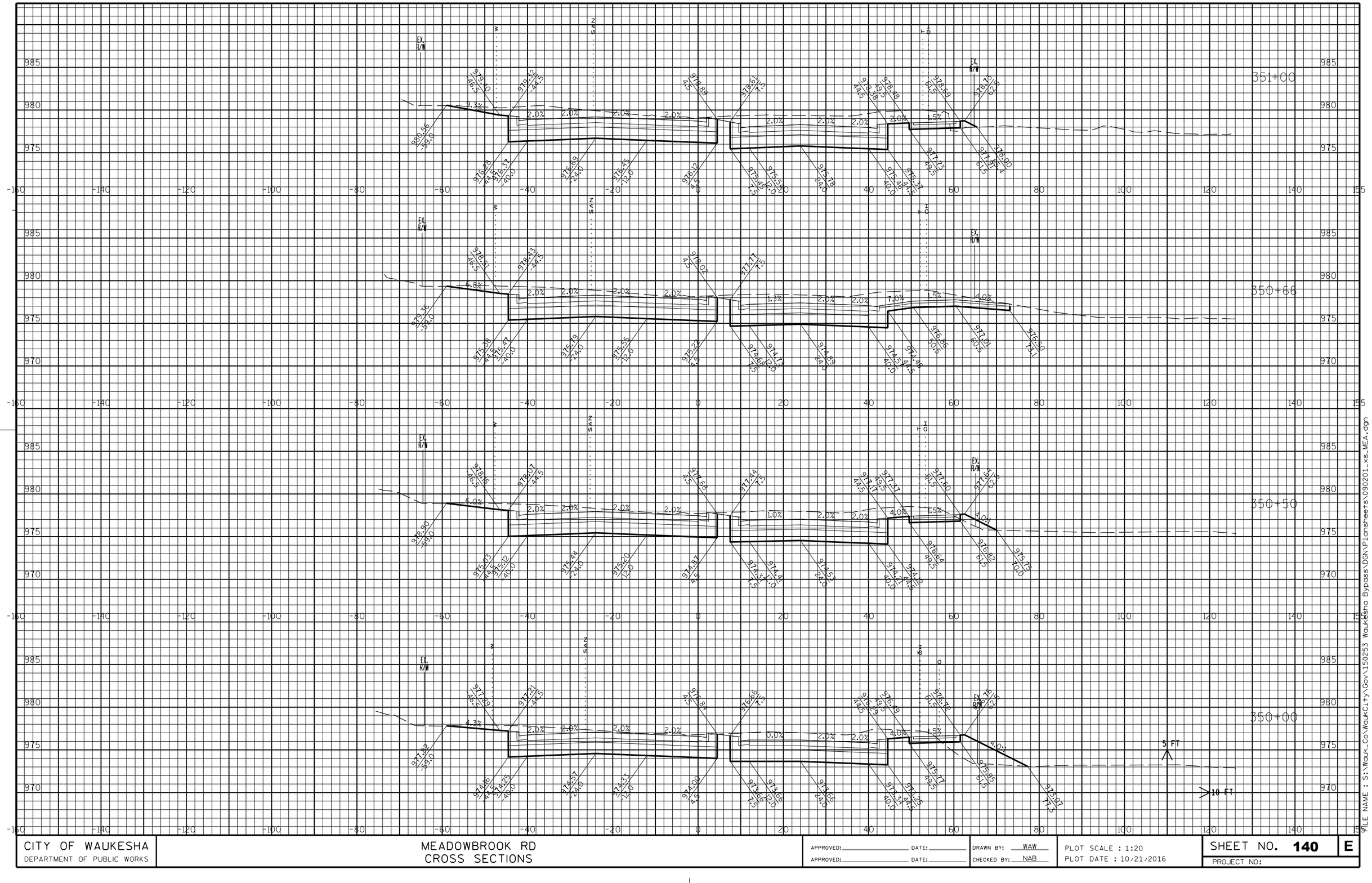
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **138** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



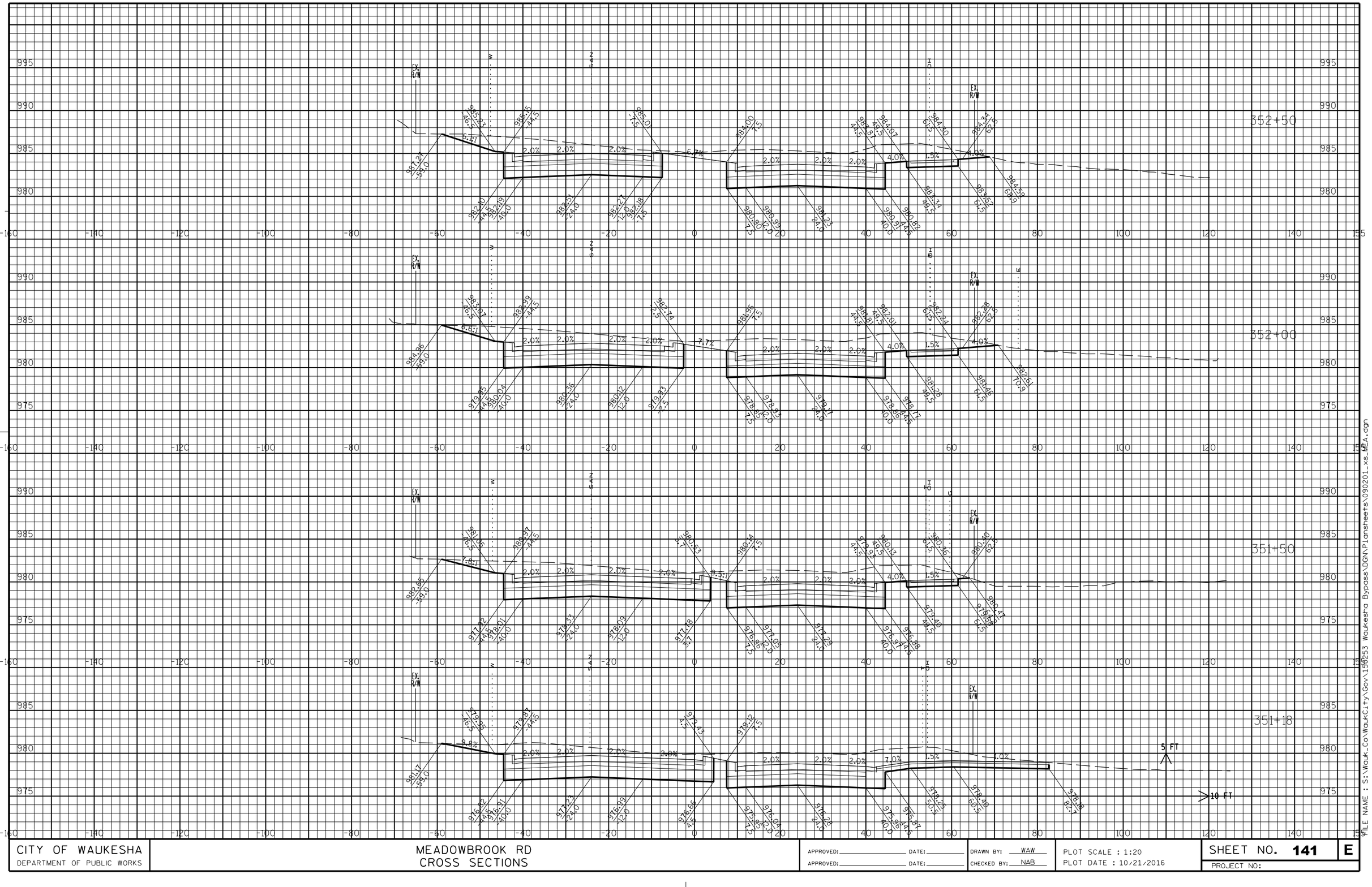
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **139** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



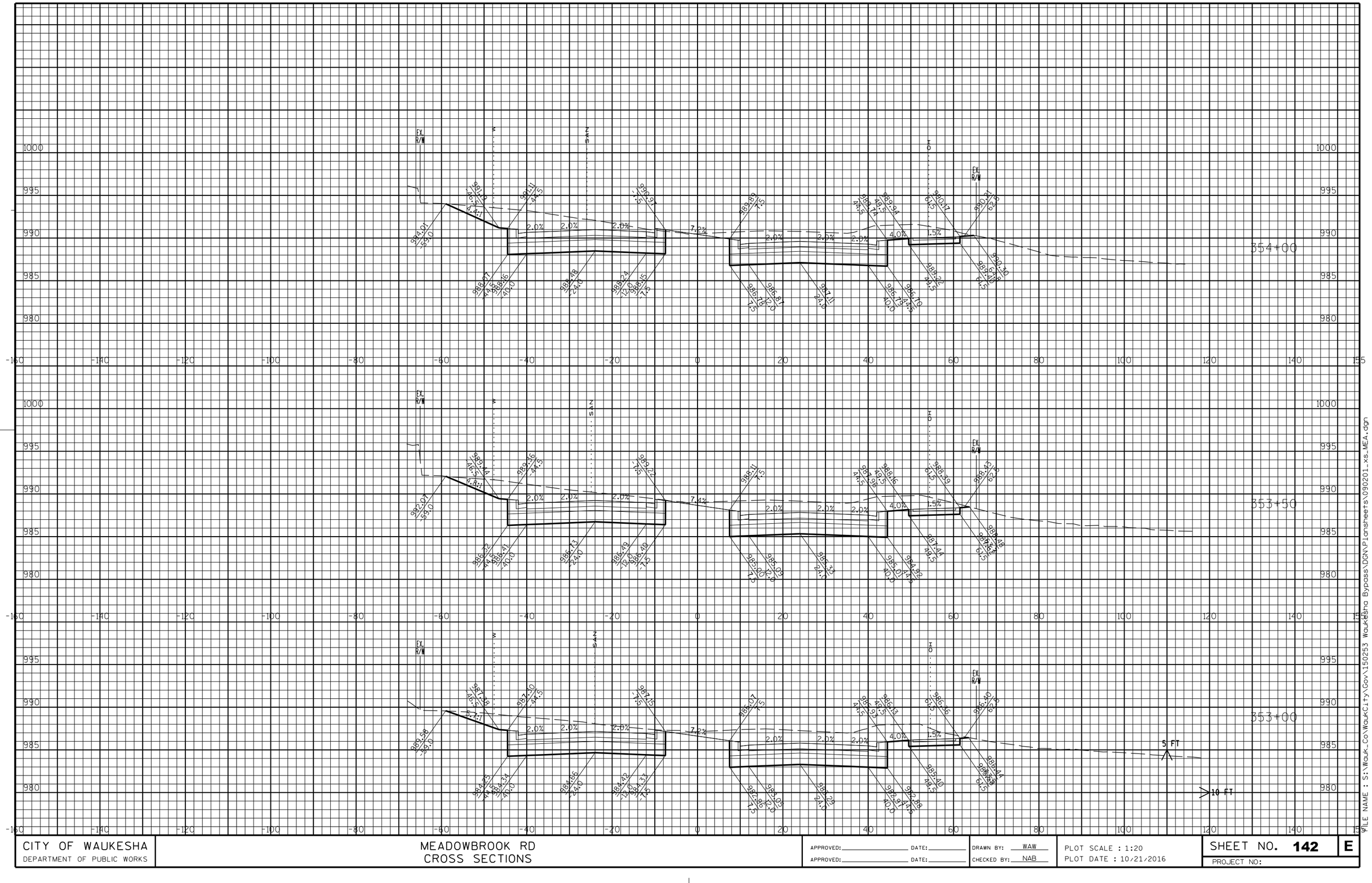
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **140** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



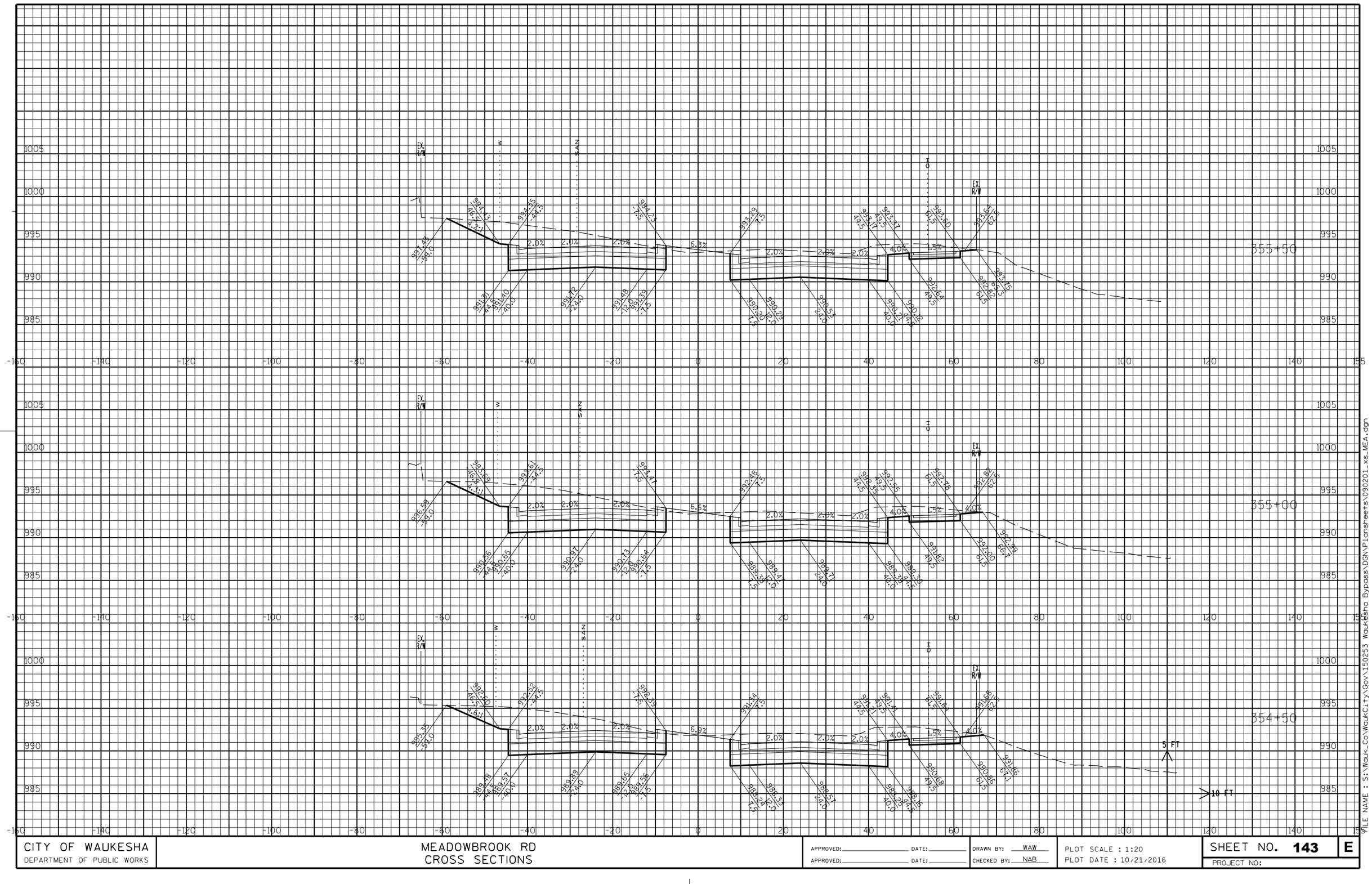
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **141** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



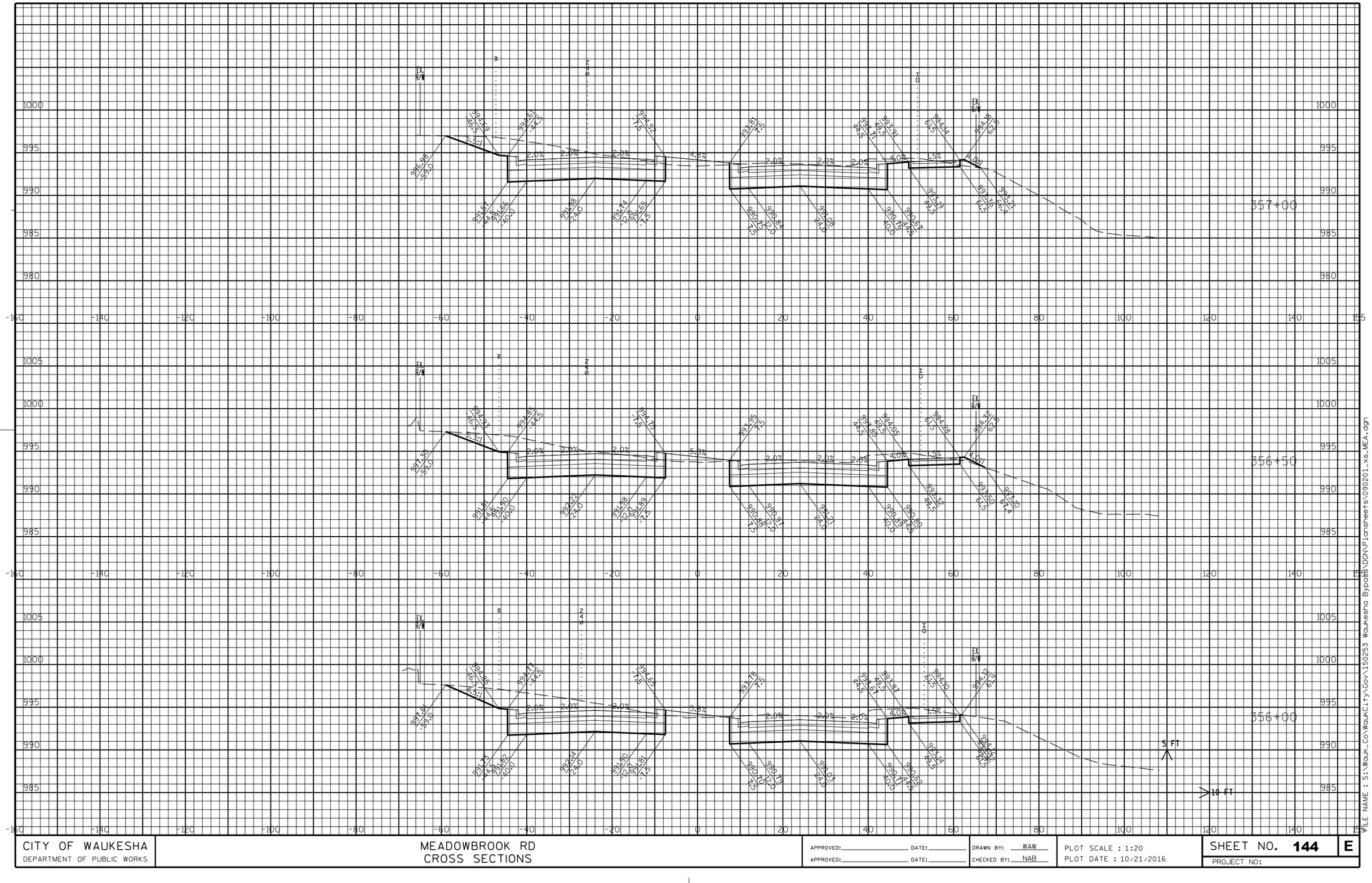
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **142** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



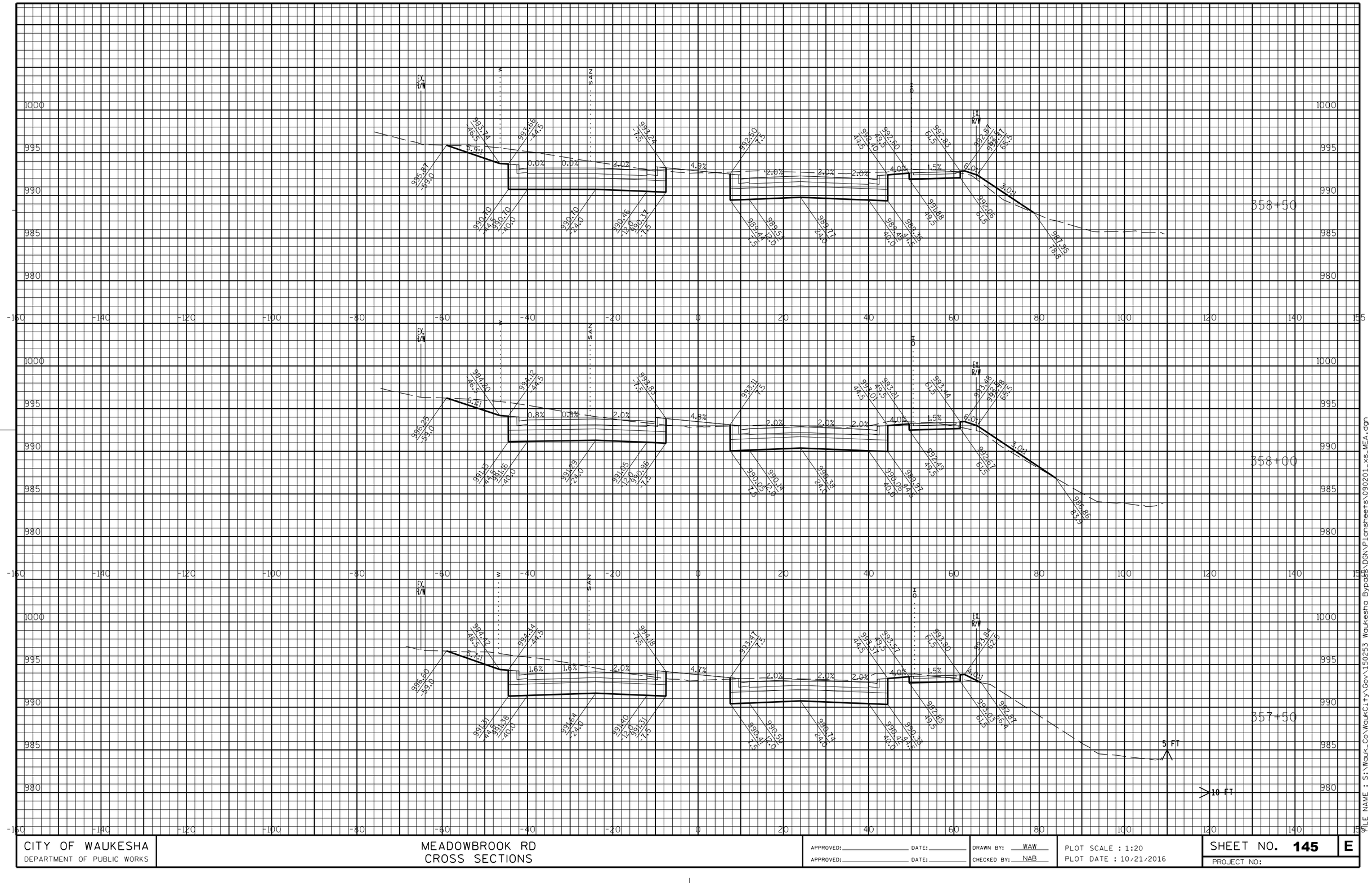
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **143** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



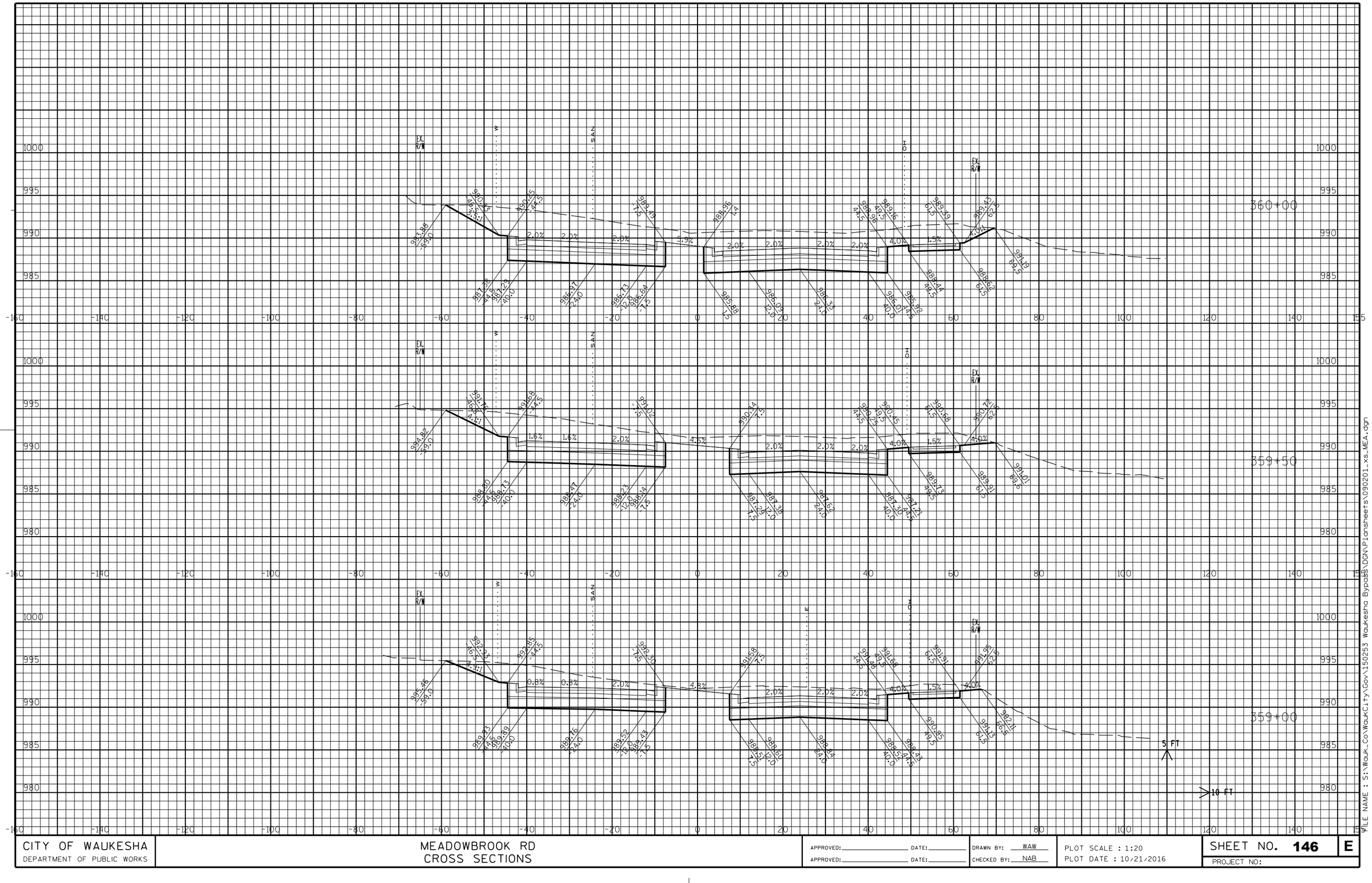
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **144** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **145** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
CROSS SECTIONS

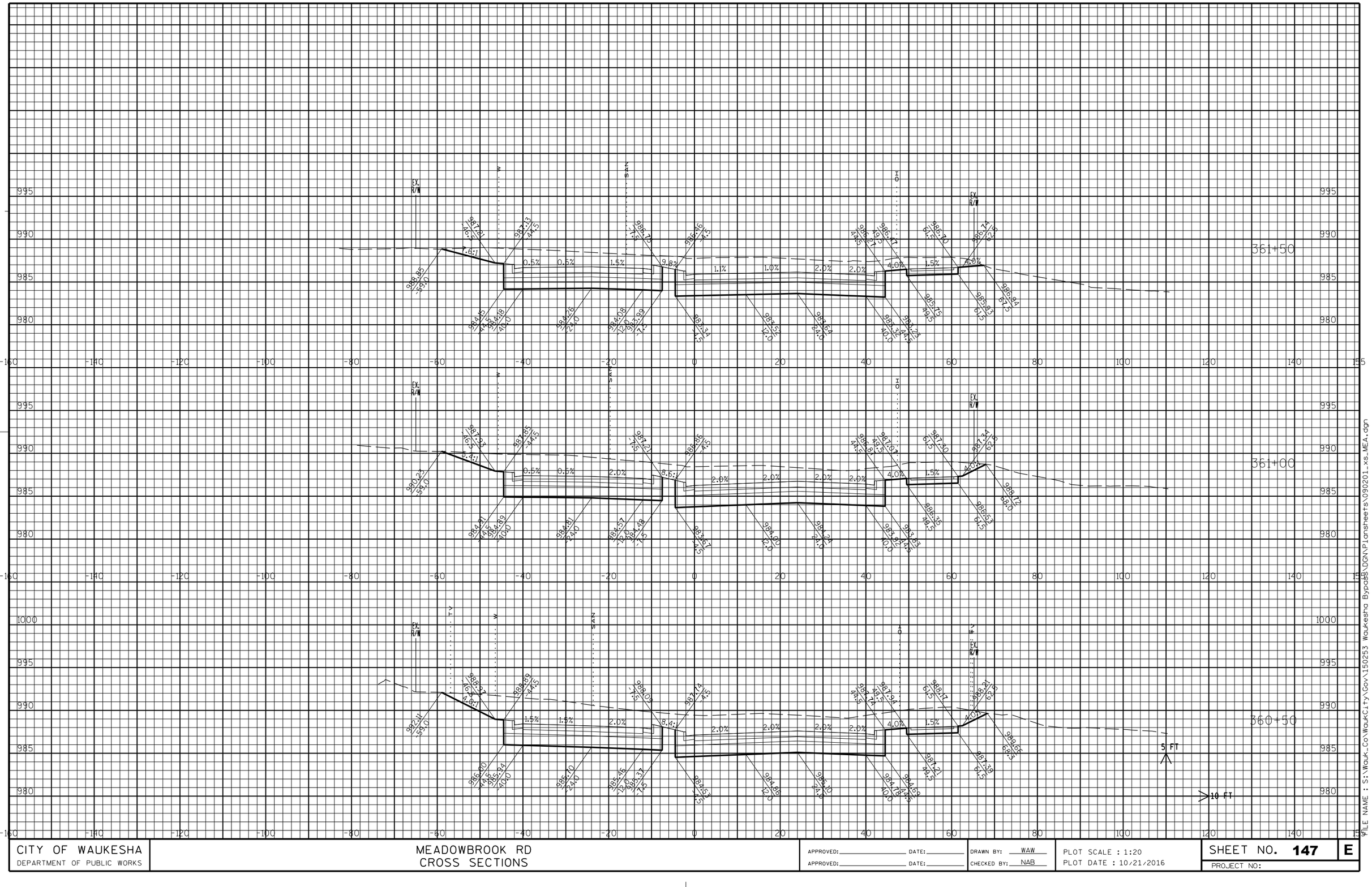
APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:20
PLOT DATE : 10/21/2016

SHEET NO. **146** **E**
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

MEADOWBROOK RD
CROSS SECTIONS

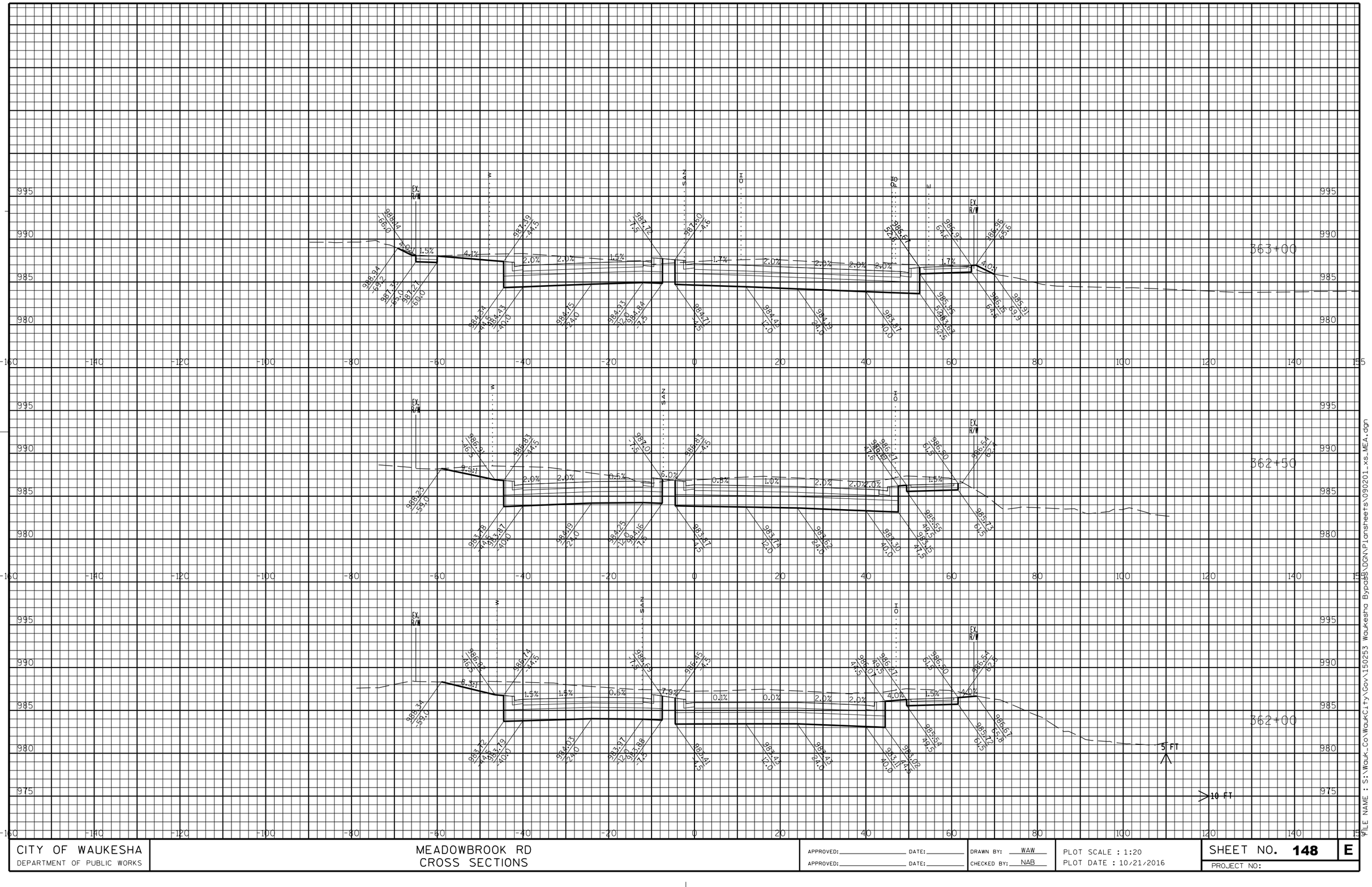
APPROVED: _____ DATE: _____
APPROVED: _____ DATE: _____

DRAWN BY: WAW
CHECKED BY: NAB

PLOT SCALE : 1:20
PLOT DATE : 10/21/2016

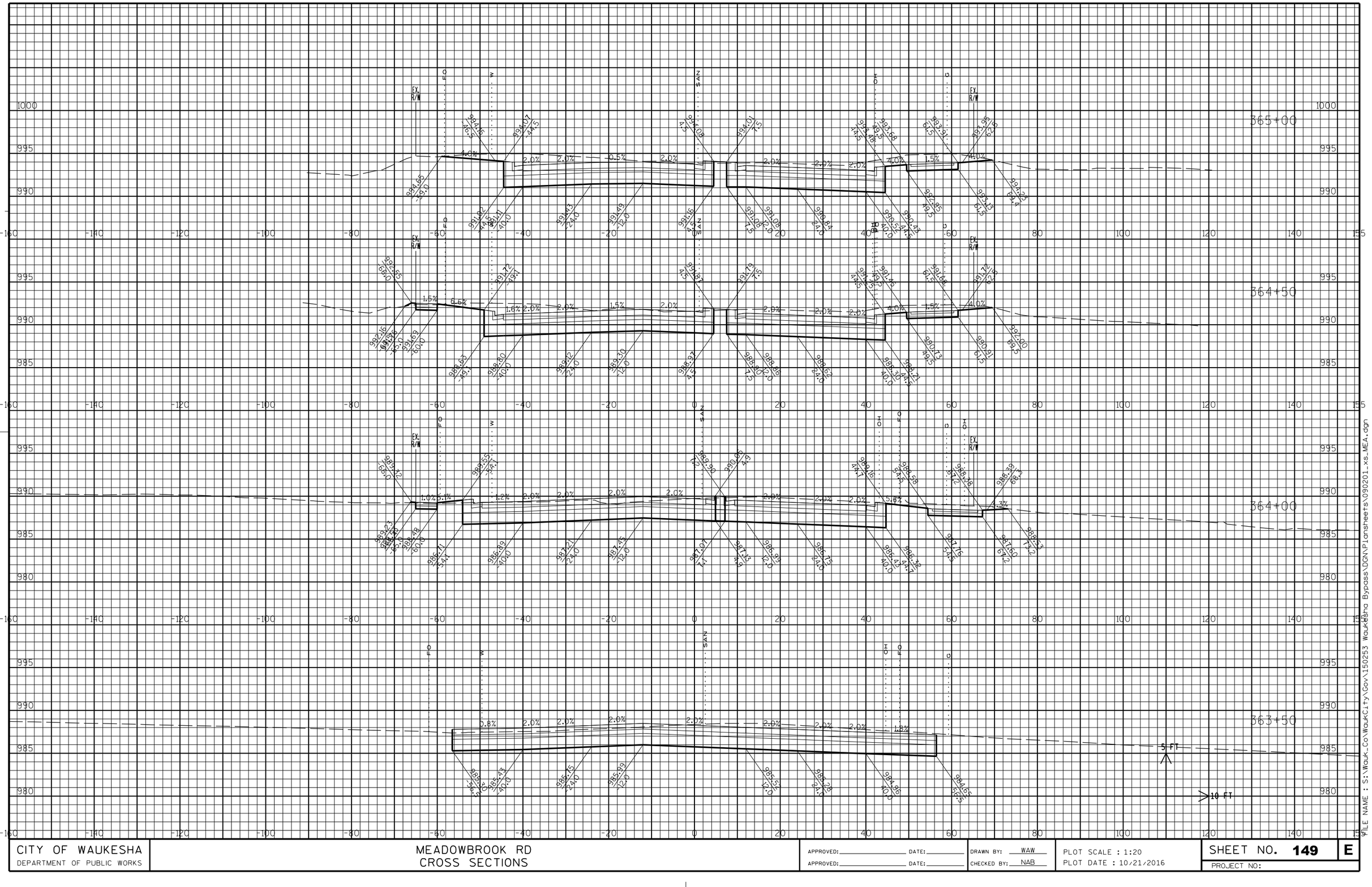
SHEET NO. **147** **E**
PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



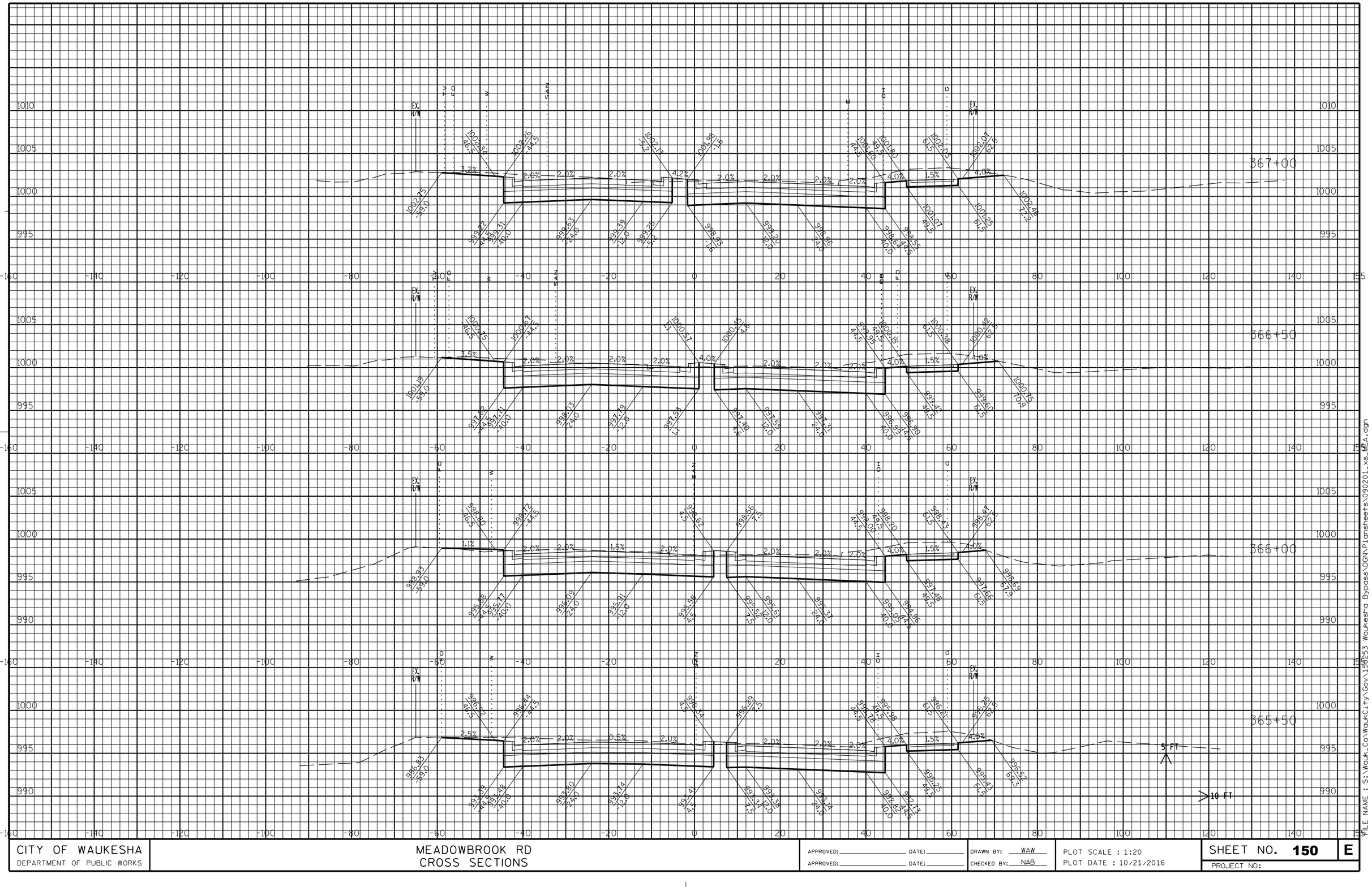
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **148** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



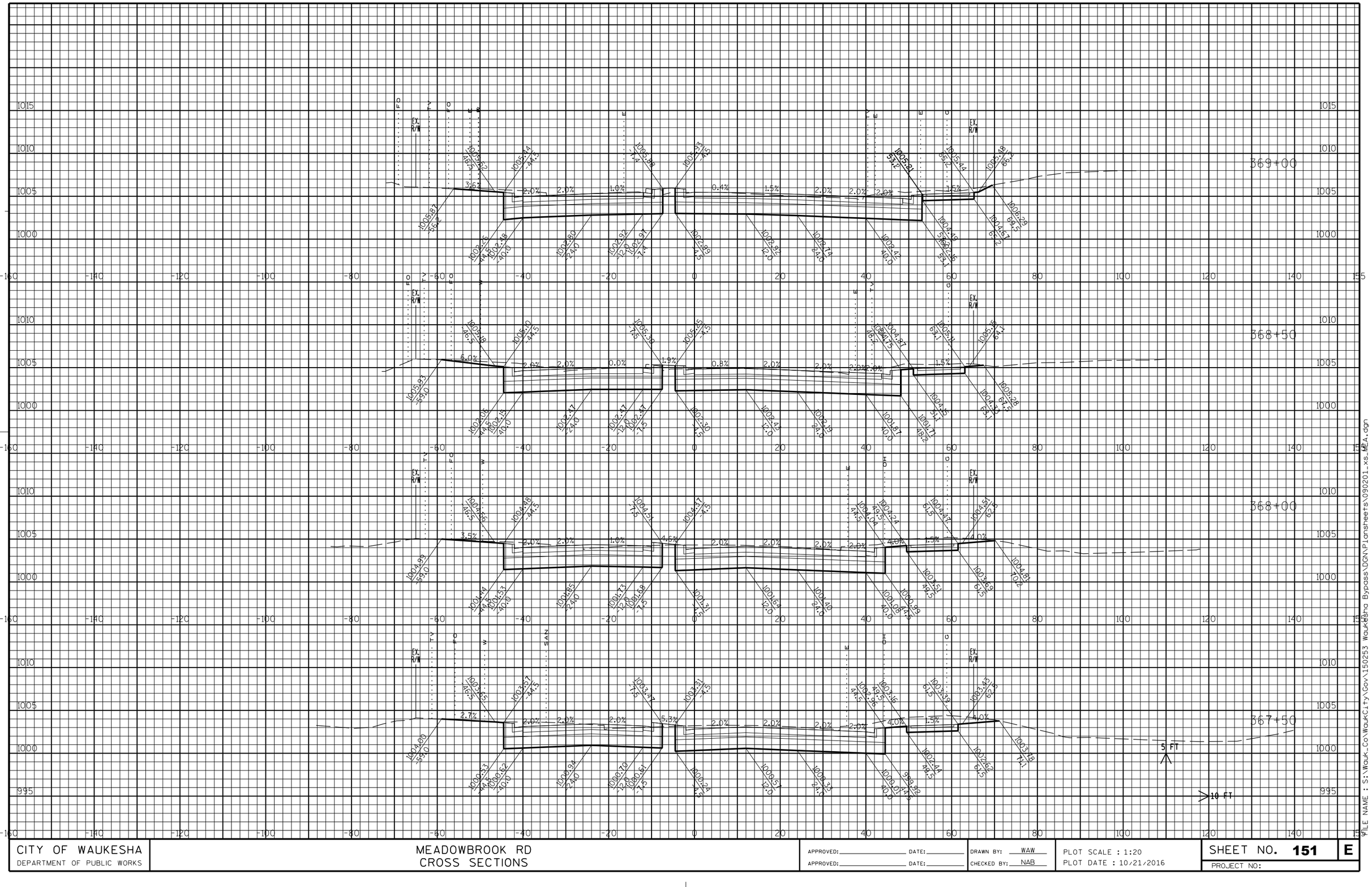
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **149** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



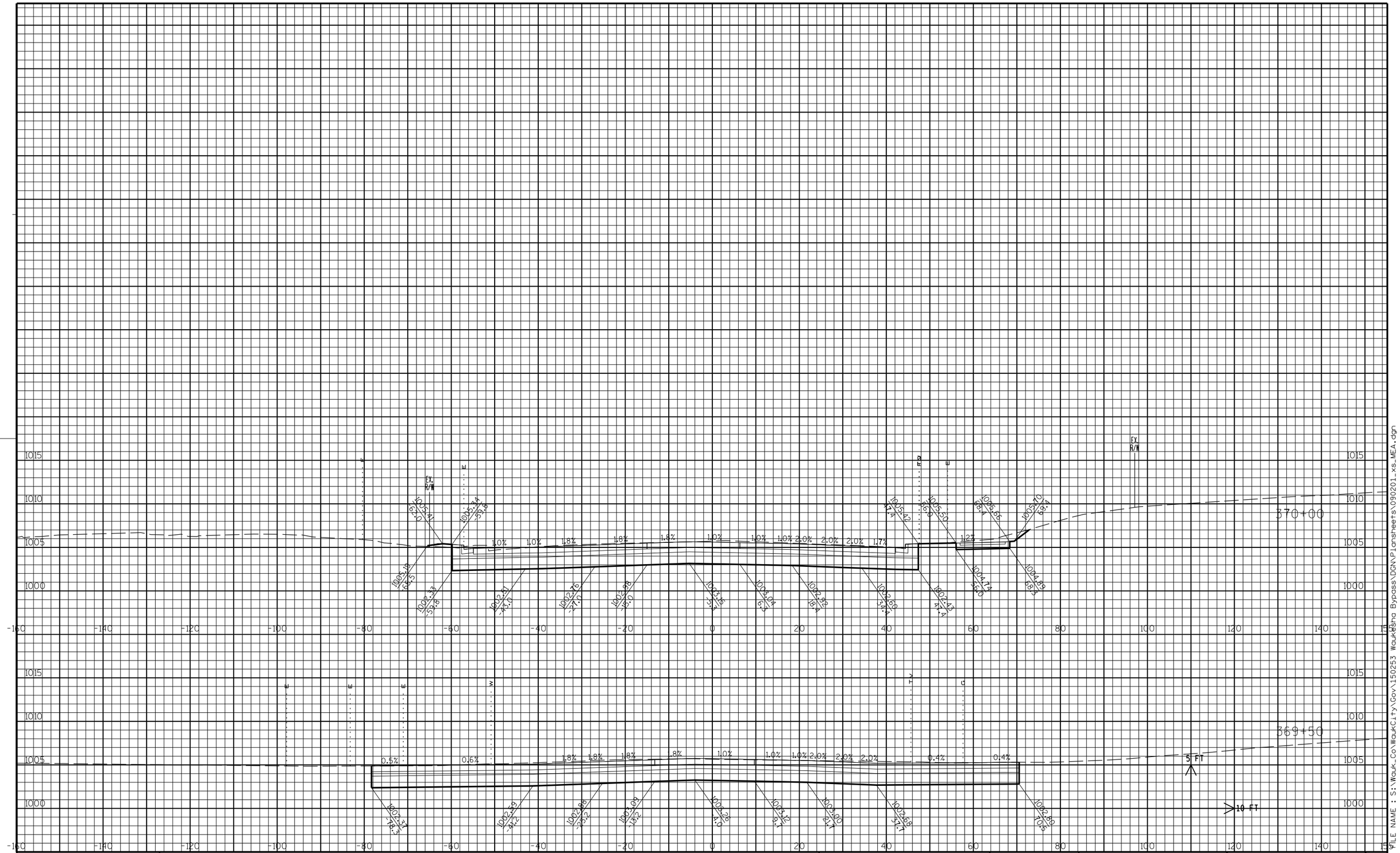
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED:____ DATE:____ APPROVED:____ DATE:____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **150** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



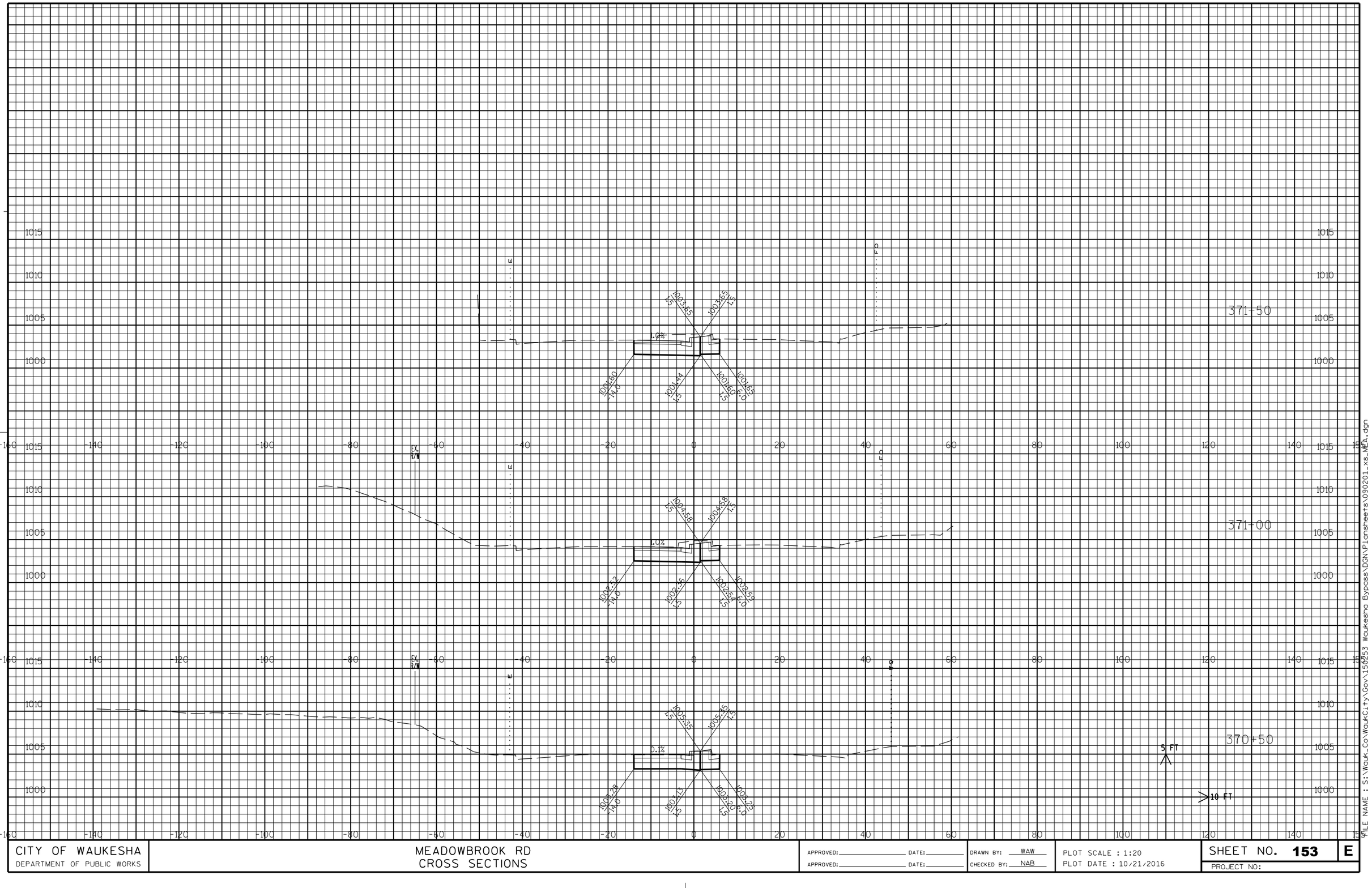
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **151** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



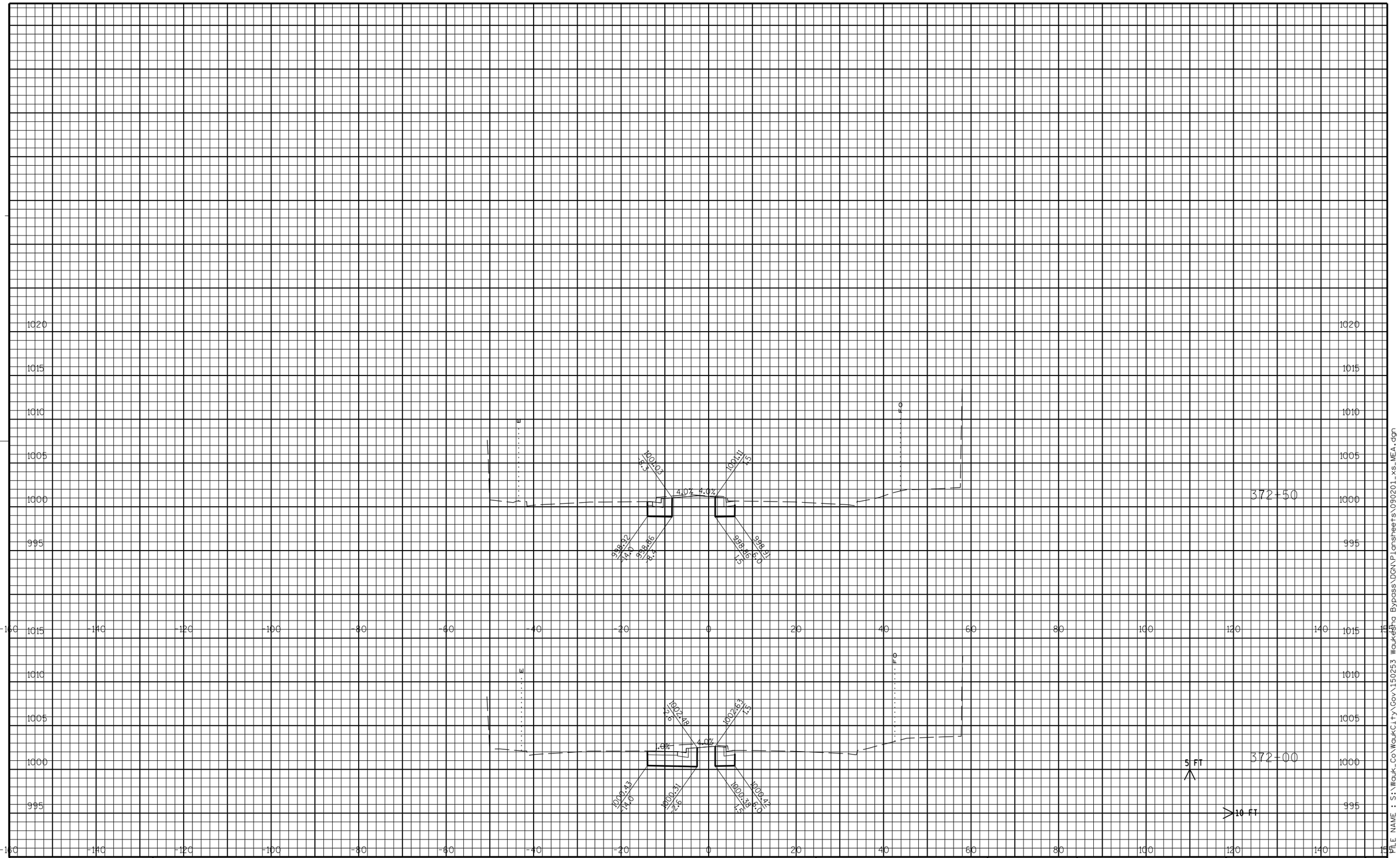
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **152** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **153** **E** PROJECT NO:

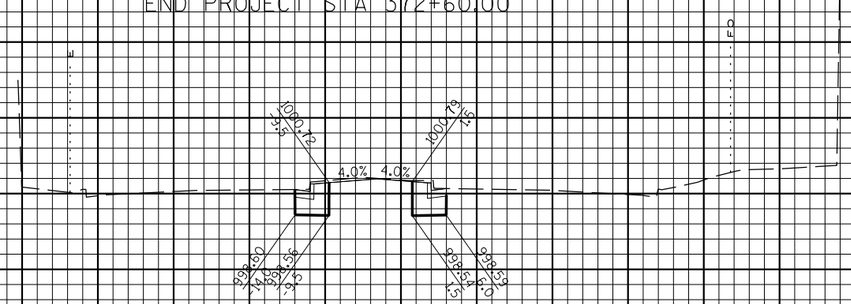
FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **154** **E** PROJECT NO:

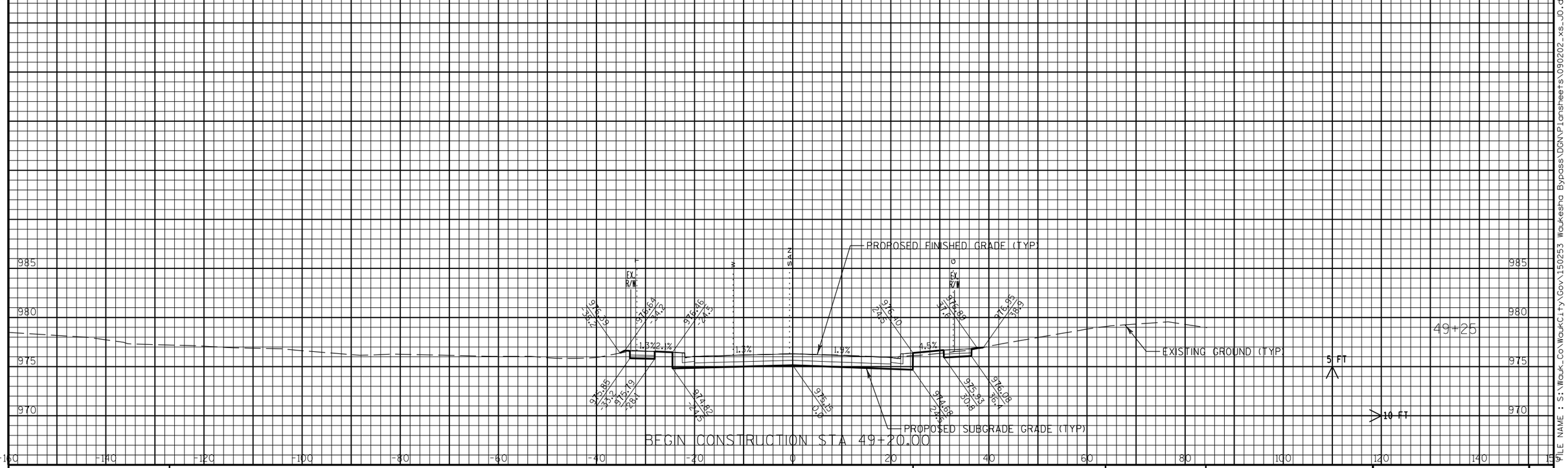
FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn

END PROJECT STA 372+60.00



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	MEADOWBROOK RD CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **155**	**E**
					PROJECT NO:	

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plansheets\090201_xs_MEA.dgn



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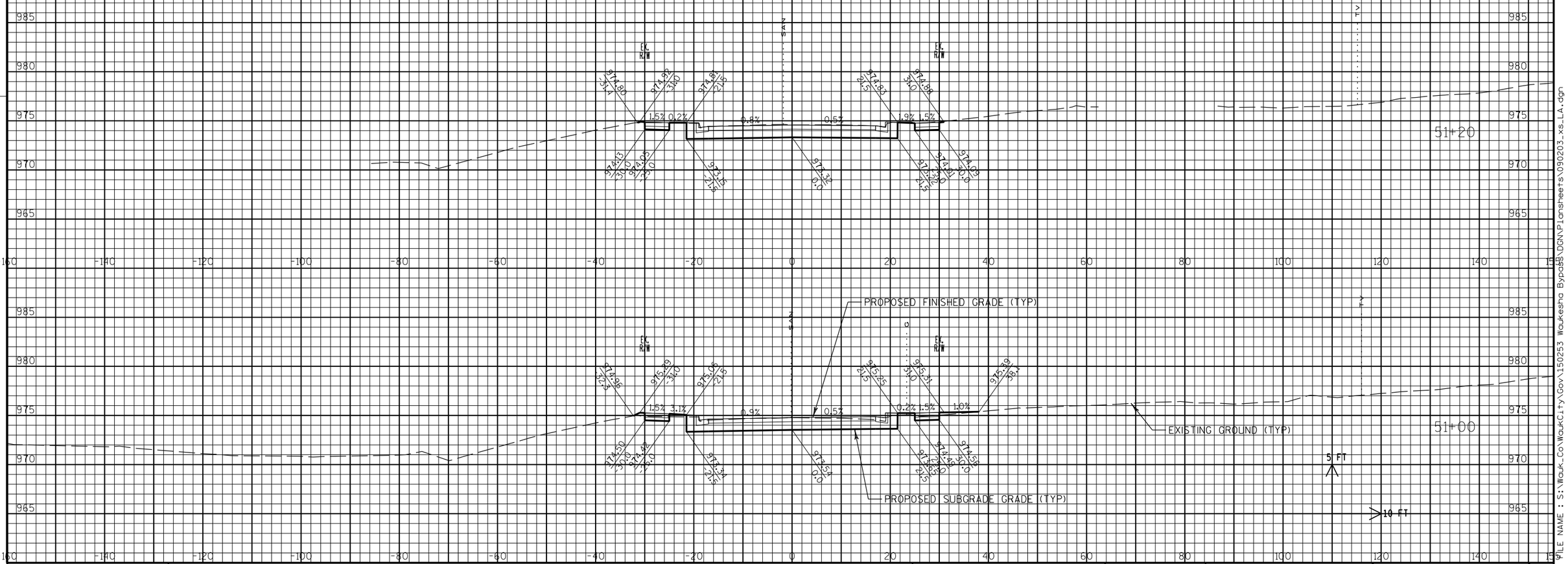
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	JOANNE DR CROSS SECTIONS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **156** **E** PROJECT NO:

END CONSTRUCTION STA 56+25.00



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	LANCASTER DR CROSS SECTIONS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **157** **E** PROJECT NO:

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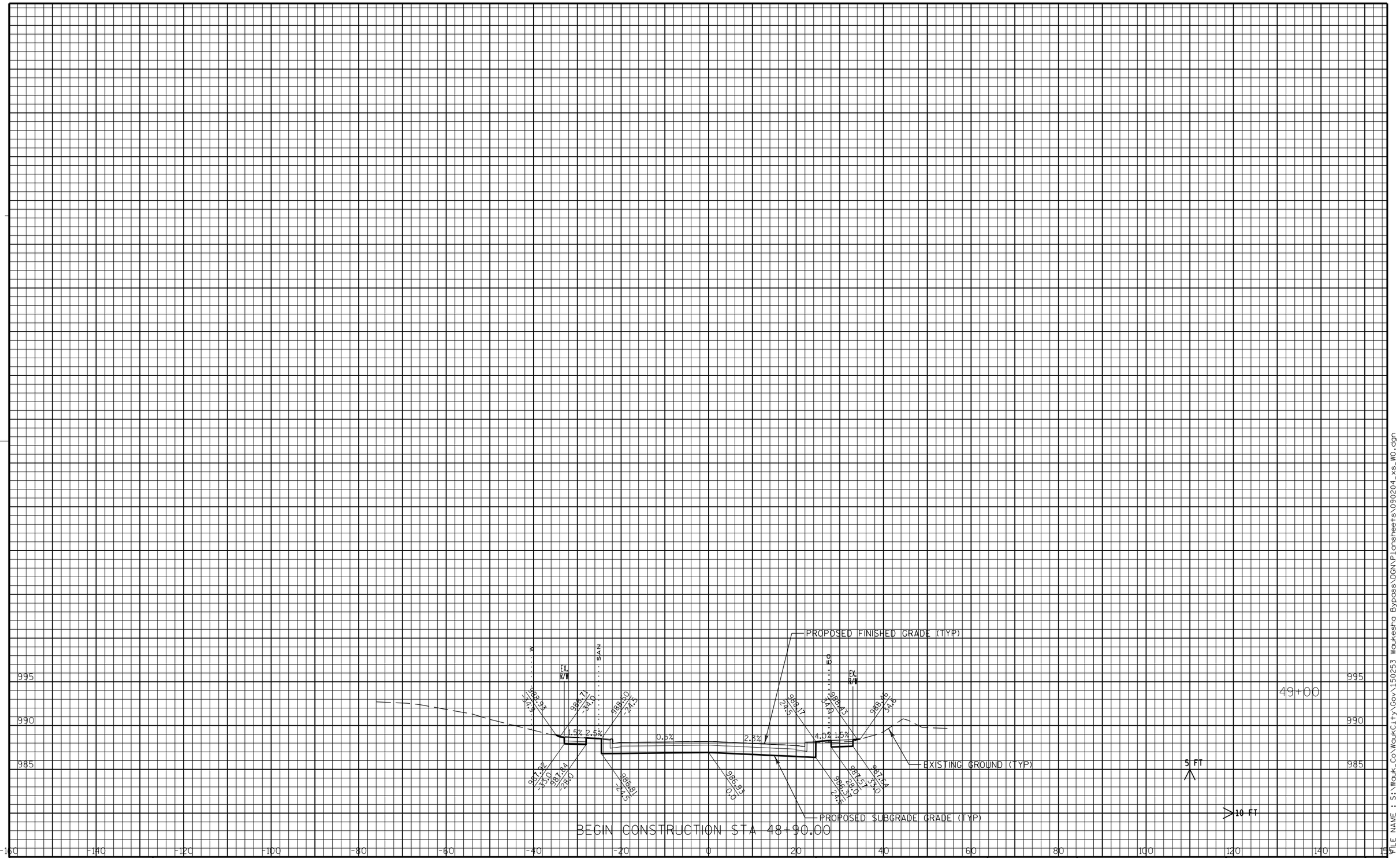

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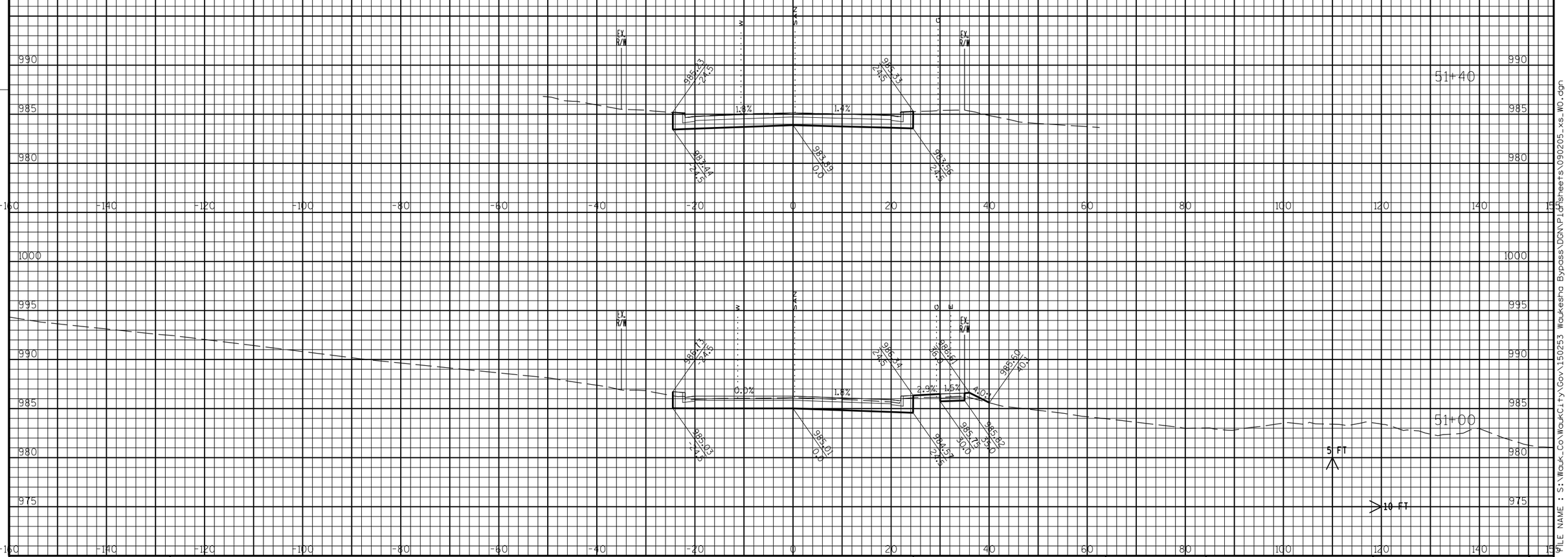
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	WOODRIDGE LN CROSS SECTIONS	APPROVED: ____ DATE: ____ APPROVED: ____ DATE: ____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **158** **E** PROJECT NO:

END CONSTRUCTION STA 51+40.00



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS	WOODRIDGE LN CROSS SECTIONS	APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	DRAWN BY: WAW CHECKED BY: NAB	PLOT SCALE : 1:20 PLOT DATE : 10/21/2016	SHEET NO. **159** **E** PROJECT NO:

FILE NAME : S:\Wauk_Co\WaukCity\Gov\150253 Waukesha Bypass\DGN\Plotsheets\090205_xs_WO.dgn