

PROJECT ID: 2704-00-77
WITH: 3763-00-73

COUNTY: RACINE

ORDER OF SHEETS

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

TOTAL SHEETS =

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

WISCONN VALLEY WAY
WISCONN VALLEY WAY/CTH KR INTERSCTN
LOC STR
RACINE COUNTY

CTH KR, V MT PLEASANT
IH 41 E FRONTAGE RD TO CTH H
CTH KR
RACINE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2704-00-77		
3763-00-73		

STATE PROJECT NUMBER
2704-00-77

STATE PROJECT NUMBER
3763-00-73

APPROVED FOR
DESIGN OF UTILITY
ADJUSTMENTS
SEPTEMBER 12, 2018



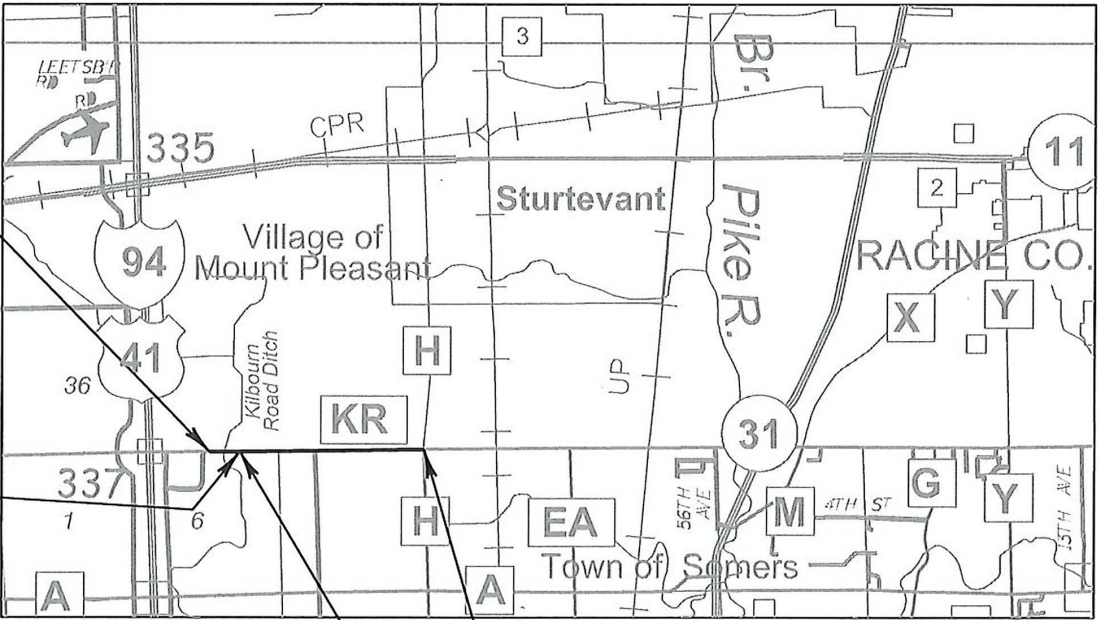
DESIGN DESIGNATION

A.A.D.T.	=	16,920 (2018)
A.A.D.T.	=	59,200 (2038)
D.H.V.	=	9,515
D.D.	=	50/50
T.	=	16.8%
DESIGN SPEED	=	50 MPH
ESALS	=	12,000,000

CONVENTIONAL SYMBOLS

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

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	



BEGIN PROJECT 2704-00-77
STA 364+00.00
X=595,679.87
Y=165,101.58

END PROJECT 2704-00-77
STA 383+00.00

R-22-E

END PROJECT 3763-00-73
STA 447+00.00

BEGIN PROJECT 3763-00-73
STA 383+00.00
X=597,579.78
Y=165,083.09

LAYOUT
SCALE 0 0.6 MI.

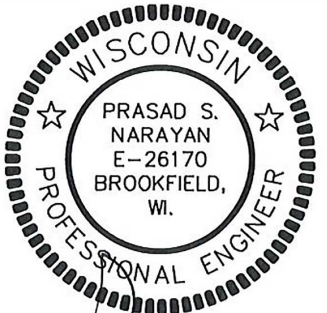
NET LENGTH OF CENTERLINE PROJECT 2704-00-77 = 0.360 MI.
NET LENGTH OF CENTERLINE PROJECT 3763-00-73 = 1.212 MI.
TOTAL NET LENGTH OF CENTERLINE = 1.572 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE
NORTH AMERICAN VERTICAL DATUM OF NAVD 88 (1991)

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE
REFERENCE SYSTEM (WISCRS), RACINE COUNTY, NAD 1983 (1997)

T-3-N
RACINE COUNTY

T-2-N
KENOSHA COUNTY



8.1.18 (Date) Prasad Narayan (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	KAPUR & ASSOCIATES
Designer	KAPUR & ASSOCIATES
Project Manager	STEVE HOFF
Regional Examiner	
Regional Supervisor	MANOJOY NAG

APPROVED FOR THE DEPARTMENT
DATE: 8/1/18 (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.

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.

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

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE PLACED A MINIMUM OF 6 INCHES IN DEPTH.

TOPSOIL SHALL NOT BE PLACED UNTIL APPROVED BY ENGINEER.

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

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

EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.

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

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

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

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES WILL BE FILLED WITH COMPACTED BACKFILL GRANULAR GRADE 1 UNLESS REGULATIONS REQUIRED OTHERWISE. BACKFILL GRANULAR GRADE 1 IS INCIDENTAL TO THE REMOVAL ITEM.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY INVERT AND RIM ELEVATIONS 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.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 6 INCHES OVER 6 FEET.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE LINE, UNLESS NOTED OTHERWISE.

CURB AND GUTTER JOINT SPACING SHALL MATCH ADJACENT PAVEMENT.

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

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

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

TRAFFIC CONTROL DEVICES SHALL 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 SHALL BE STORED AND PROTECTED BY THE CONTRACTOR, FREE FROM DAMAGE, UNTIL SUCH TIME AS THEY ARE RE-INSTALLED.

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS:

100TH AVENUE & 113TH AVENUE

5-INCH HMA PAVEMENT
2" UPPER LAYER 4 MT 58-28 S
3" LOWER LAYER 3 MT 58-28 S

DESIGN INDEX
TITLE
GENERAL NOTES AND UTILITY CONTACTS
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
PAVING GRADES
EROSION CONTROL
STORM SEWER
SIGNING
LIGHTING
PAVEMENT MARKING
STAGE CONSTRUCTION
TRAFFIC CONTROL
CONTROL AND BENCHMARK OVERVIEW
ALIGNMENT PLAN

UTILITY CONTACTS

AT&T WISCONSIN
JEFF OLDENBURG
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
PHONE: (262) 896-7522
jo2376@att.com

CHARTER COMMUNICATIONS
PETE KRUZELA
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 908-1339
CELL: (414) 688-5376
pete.kruzela@charter.com
wis.engineering@charter.com

VILLAGE OF MOUNT PLEASANT - SEWER
ANTHONY BEYER
6126 DURAND AVENUE
RACINE, WI 53406
PHONE: (262) 664-7849
tbeyer@mtpleasantwi.gov

RACINE WATER WORKS COMMISSION
CHAD REGALIA
800 CENTER STREET, ROOM 227
RACINE, WI 53403
PHONE: (262) 497-4611
chad.regalia@cityofracine.org

WE ENERGIES - ELECTRIC
SEND ALL CORRESPONDENCE TO:
NICOLE SMULLEN
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: 414-221-5617
CELL: 414-460-7190
Nicole.SmulLEN@we-energies.com

CONSTRUCTION FIELD CONTACT:
ANDY DOERFLINGER
500 S. 116TH STREET
WEST ALLIS, WI 53214
OFFICE: (414) 944-5758
CELL: (262) 939-5601
andy.doerflinger@we-energies.com

WE ENERGIES - GAS
SEND ALL CORRESPONDENCE TO:
NICOLE SMULLEN
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: 414-221-5617
CELL: 414-460-7190
Nicole.SmulLEN@we-energies.com

CONSTRUCTION FIELD CONTACT:
ANDY DOERFLINGER
500 S. 116TH STREET
WEST ALLIS, WI 53214
OFFICE: (414) 944-5758
CELL: (262) 939-5601
andy.doerflinger@we-energies.com

WISDOT - LIGHTING
ERIC PEREA
141NW BARSTOW STREET
WAUKESHA, WI 53187
PHONE: (262) 574-5422
CELL: (414) 750-0935
eric.perea@dot.wi.gov

UTILITY CONTACTS - CONTINUED

WISDOT - SIGNALS
JOHN HAUG
141NW BARSTOW STREET
WAUKESHA, WI 53187
PHONE: (262) 521-5356
john.haug@dot.wi.gov

WISDOT - COMMUNICATIONS
JEFFREY MADSON
433 W ST. PAUL AVENUE
SUITE 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
jeffrey.madson@dot.wi.gov

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION
LACI KAZAN - ENVIRONMENTAL ANALYST AND
REVIEW SPECIALIST
141NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 322-1429
laci.kazan@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
KRISTINA BETZOLD
DNR SERVICE CENTER
2300 N. MARTIN LUTHER KING JR.
MILWAUKEE WI 53212
PHONE: (414) 507-4946
kristina.betzold@wisconsin.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
GREG BERRY UTILITY COORDINATOR
141NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-7828
gregory.berry@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
STEVE HOFF, PROJECT MANAGER
141NW BARSTOW STREET
WAUKESHA, WI 53187-0798
(262) 548-6718
steve.hoff@dot.wi.gov

OTHER AGENCIES

KENOSHA COUNTY PUBLIC WORKS
RAY ARBET
19600 75TH STREET
PO BOX 609
BRISTOL, WI 53104-0609
PHONE: (262) 857-1870

MOUNT PLEASANT, VILLAGE OF
MARK BENISH
8700 CAMPUS DRIVE
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7844
mbenish@mtpleasantwi.gov

RACINE COUNTY - DPW
NATHAN PLUNKETT
14200 WASHINGTON AVENUE
STURTEVANT, WI 53177
PHONE: (262) 886-8442
nathan.plunkett@racinecounty.com

SOMERS, TOWN OF
JERRY SMITH
P.O. BOX 197
SOMERS, WI 53171
PHONE: (262) 859-2822
gsmith@somers.org

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
ROB MERRY
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4289
CELL: (920) 912-1036
rmerry@sewrpc.org

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU DIG IN WISCONSIN

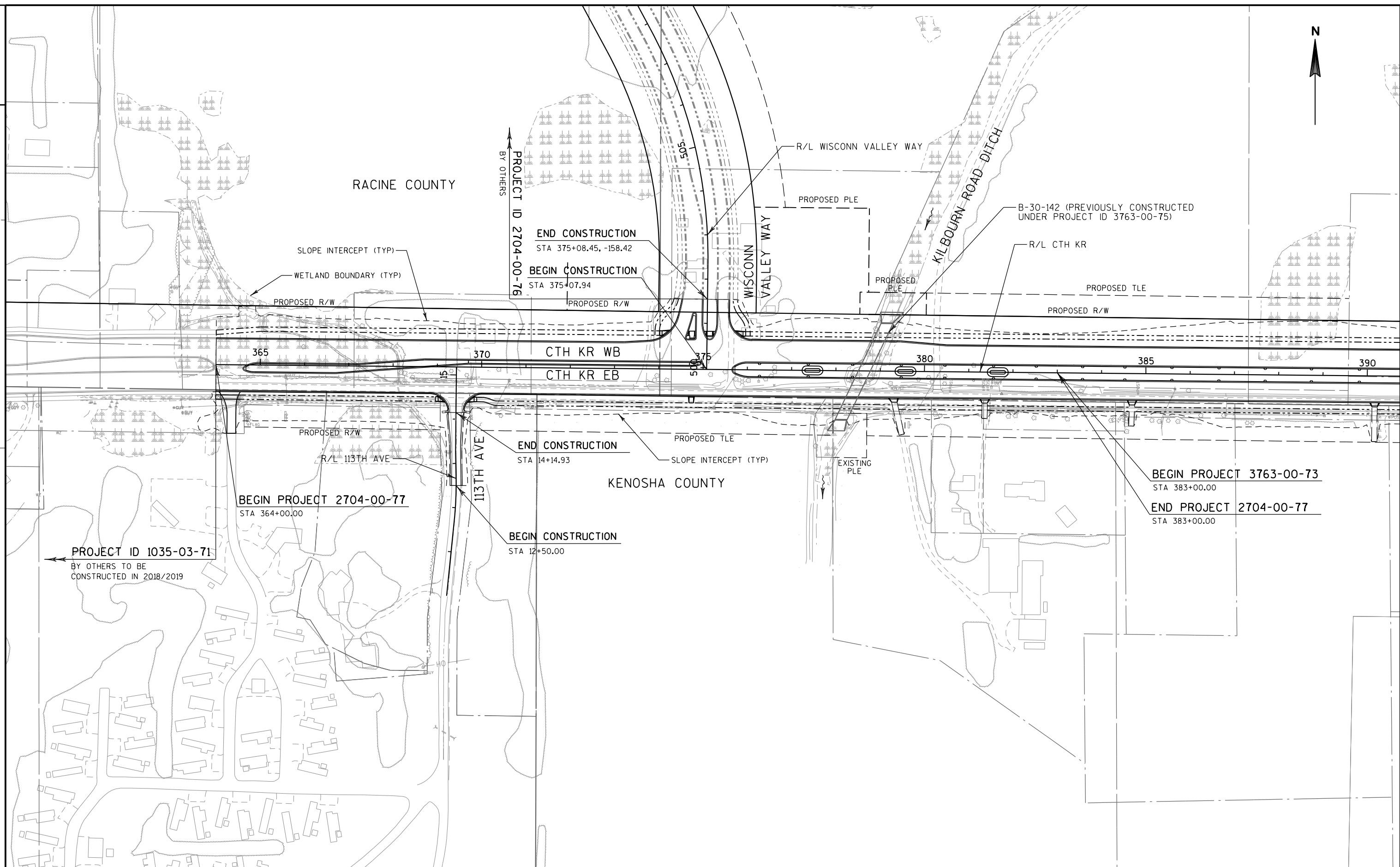
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK
DAYS NOTICE BEFORE YOU EXCAVATE.



STANDARD ABBREVIATIONS

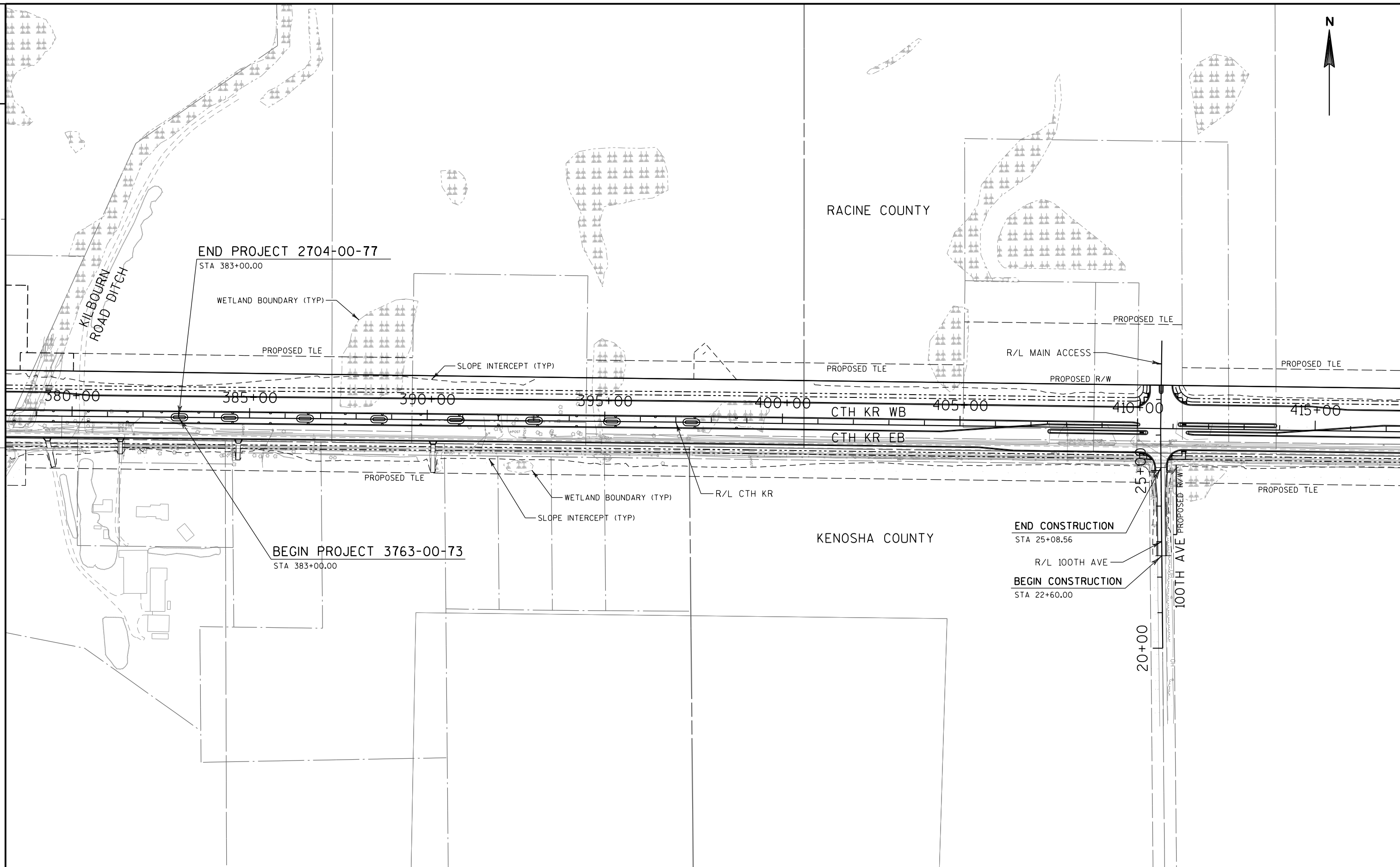
< ANGLE
ADT AVERAGE DAILY TRAFFIC
AC ACRE
AE, AEW APRON ENDWALL
AGG AGGREGATE
AH AHEAD
ASPH ASPHALTIC
BC BACK OF CURB
BF BACK FACE
BIT EXISTING BITUMINOUS
BM BENCH MARK
BEG BEGIN
BK BACK
C & G CURB AND GUTTER
CABC CRUSHED AGGREGATE BASE COURSE
CB CATCH BASIN
CMCP CORRUGATED METAL CULVERT PIPE
CMP CORRUGATED 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
Δ DELTA
DHV DESIGN HOUR VOLUME
DIA DIAMETER
DISCH DISCHARGE
E EAST
EA EACH
EB EASTBOUND
EBS EXCAVATION BELOW SUBGRADE
EL, ELEV ELEVATION
ELEC ELECTRIC(AL), ELEC CABLE
EMB EMBANKMENT
ESALS EQUIVALENT SINGLE AXEL LOADS
ESMT EASEMENT
EW ENDWALL
EXC EXCAVATION
EXIST EXISTING BITUMINOUS
EXP EXPANSION
FC FACE OF CURB
FE FIELD ENTRANCE
FF FACE TO FACE
F/L, FL FLOW LINE
FERT FERTILIZER
FHWA FEDERAL HIGHWAY
FT FOOT (FEET)
G GAS
GN GRID NORTH
H HOUSE
HMA HOT MIX ASPHALT
HORZ HORIZONTAL
HP HIGH POINT
HR HANDICAP RAMP
HYD HYDRANT
I INTERSECTION ANGLE
ID INSIDE DIAMETER
INL INLET
INTER INTERSECTION
INV INVERT
IP IRON PIPE
JT JOINT
K RATE OF VERTICAL CURVATURE
L LENGTH OF CURVE
LB POUND
LC LONG CHORD OF CURVE
LP LOW POINT
LF LINEAR FOOT(FEET)
LHF LEFT HAND FORWARD
LS LUMP SUM
LT LEFT
M MARSH
MATL MATERIAL
MP MARKER POST
MAX MAXIMUM
MGAL 1000 GALLONS
MH MANHOLE
MIN MINIMUM
ML OR M/L MATCH LINE
N NORTH
NB NORTHBOUND

NC NORMAL CROWN OR NO CHANGE
NO NUMBER
NW OR N/W NORMAL WATER
OBLIT OBLITERATE
OD OUTSIDE DIAMETER
PAVT PAVEMENT
PC POINT OF CURVATURE
PCC POINT OF COMPOUND CURVE
PE PRIVATE ENTRANCE
PGL PROFILE GRADE LINE
PI POINT OF INTERSECTION
PL PROPERTY LINE
PLE PERMANENT LIMITED EASEMENT
PRC POINT OF REVERSE CURVE
PROJ PROJECT
PSI POUNDS PER SQUARE INCH
PT POINT OF TANGENCY
PVC POLYVINYL CHLORIDE
PAV'T PAVEMENT
PCC PORTLAND CEMENT CONCRETE
R RADIUS OR RANGE
RC REVERSE CURVE
RCCP REINFORCED CONCRETE CULVERT PIPE
RCHECP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE
RCPSS REINFORCED CONCRETE PIPE STORM SEWER
RHF RIGHT HAND FORWARD
R/L REFERENCE LINE
R/W RIGHT OF WAY
RD ROAD
RDWY ROADWAY
REL RELOCATE
REM REMAINING
REOD REQUIRED
RO RUN OFF LENGTH
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

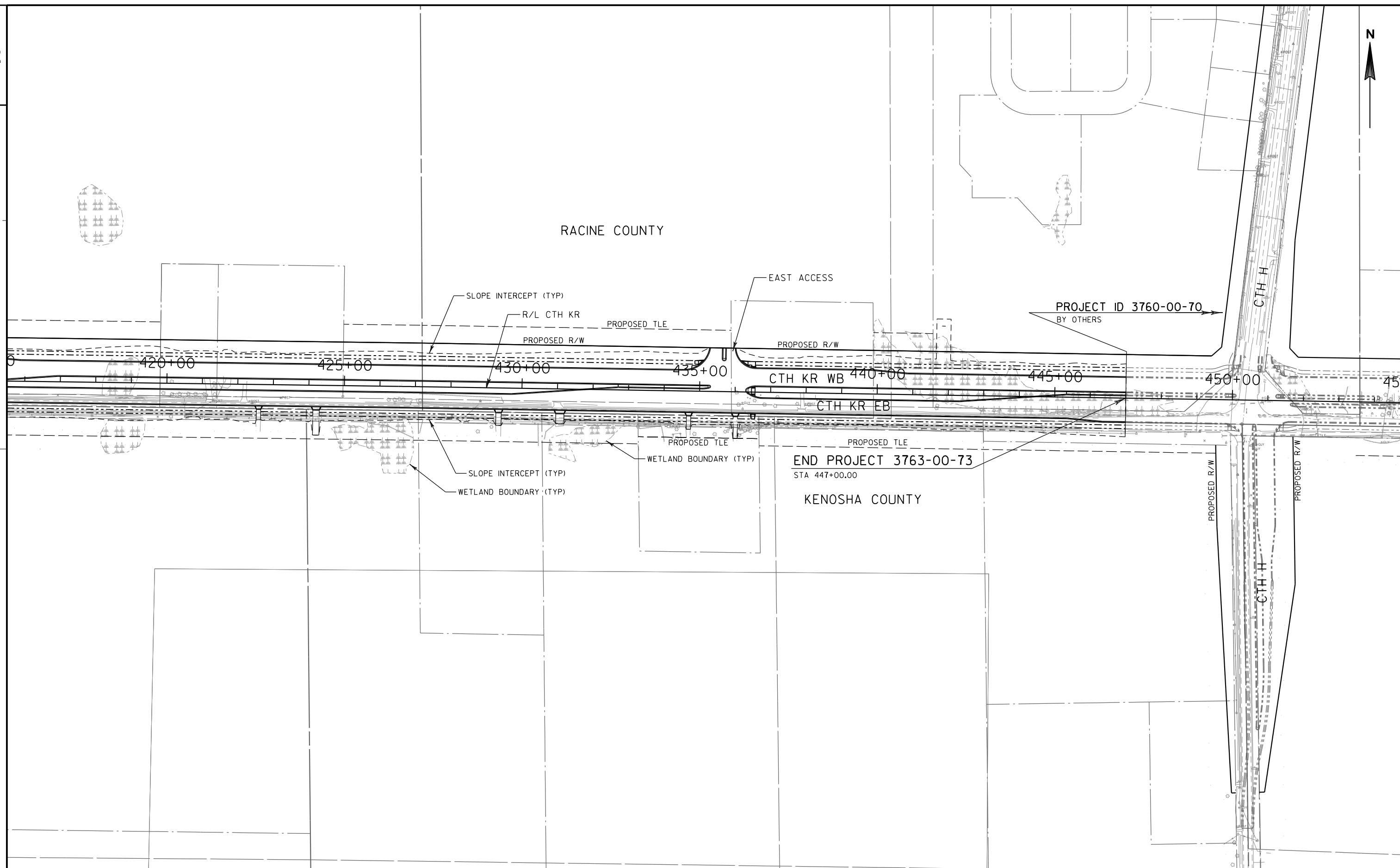


2

2



PROJECT NO: 3763-00-73	HWY: CTH KR	COUNTY: RACINE	PROJECT OVERVIEW	SHEET	E
------------------------	-------------	----------------	------------------	-------	---



PROJECT NO: 3763-00-73

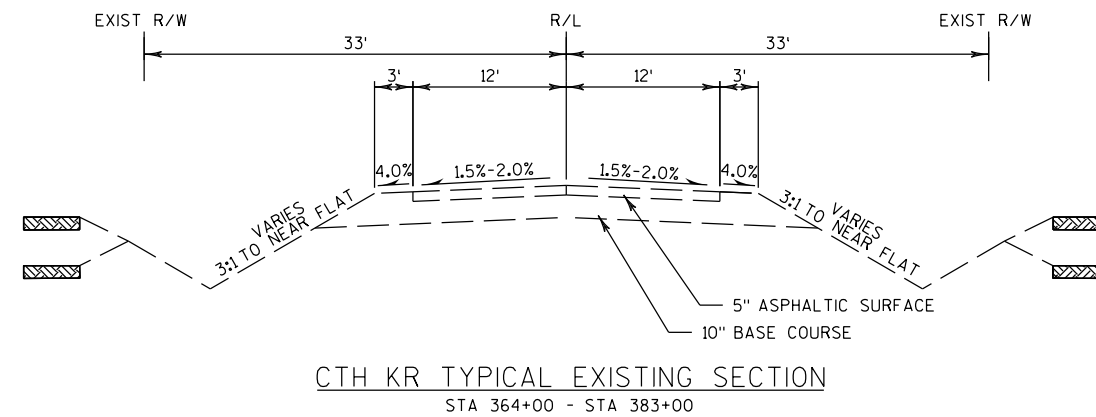
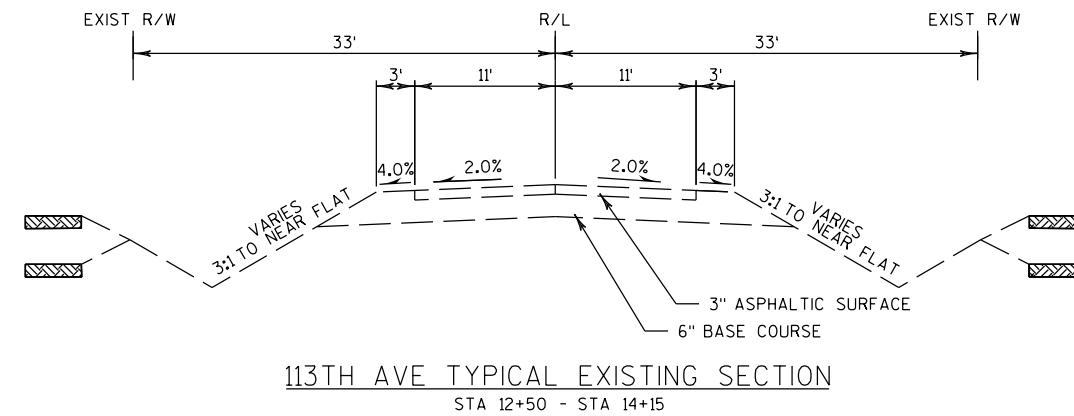
HWY: CTH KR

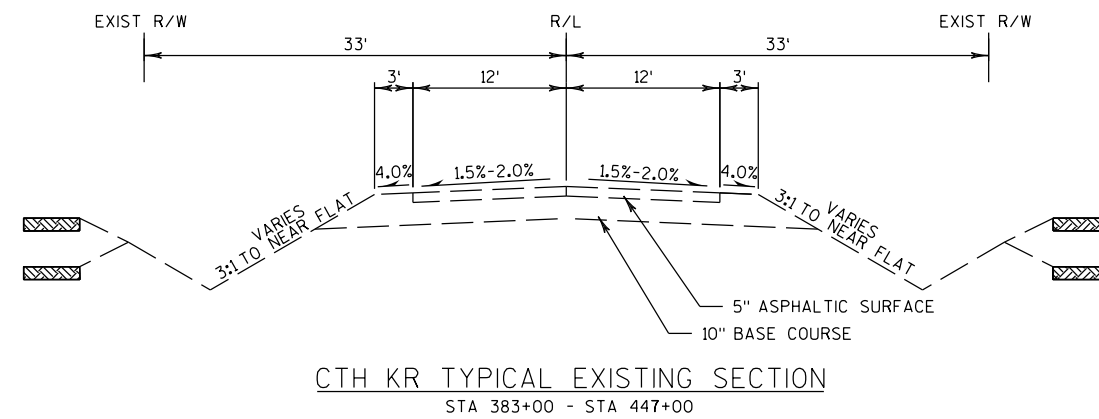
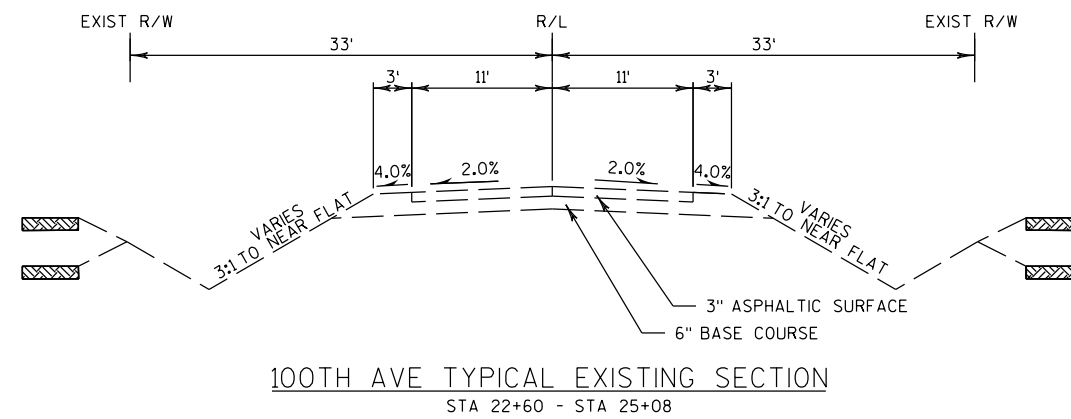
COUNTY: RACINE

PROJECT OVERVIEW

SHEET

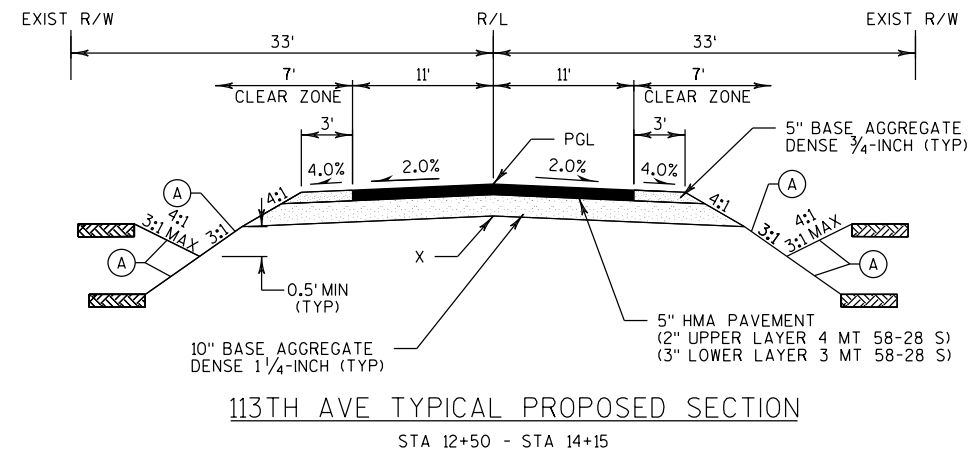
E

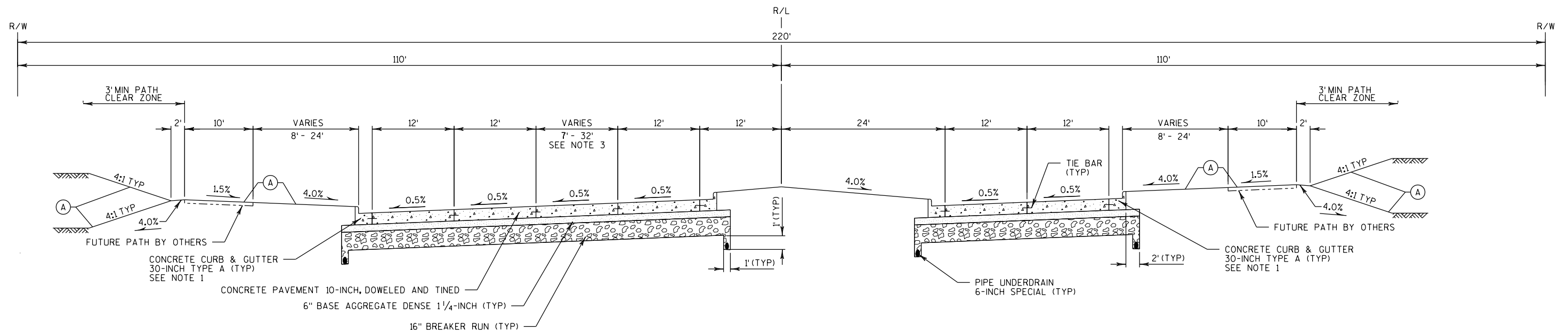




NOTES:

- 1) SEE PLAN DETAILS AND LANDSCAPING PLANS FOR BIOSWALE LOCATIONS.
 - 2) CTH KR CROSS-SLOPE VARIES TO 1% AT INTERSECTIONS
 - 3) REFER TO PAVING GRADES FOR CROSS SLOPE TRANSITION LOCATIONS THROUGH INTERSECTIONS.
 - 4) REFER TO PAVING GRADES FOR EB CROWN SHIFT LOCATIONS THROUGH INTERSECTIONS.
- (A) TOPSOIL SPECIAL, FERTILIZER, SEED AND EROSION MAT
(B) CONCRETE SIDEWALK 5-INCH
(C) REFER TO BIORETENTION DETAILS AND PLAN DETAILS FOR LOCATIONS AND ADDITIONAL INFORMATION ON MEDIAN BIORETENTION BASINS.
- X = POINT REFERENCED ON CROSS SECTIONS
PCL = POINT REFERRED TO ON PROFILE



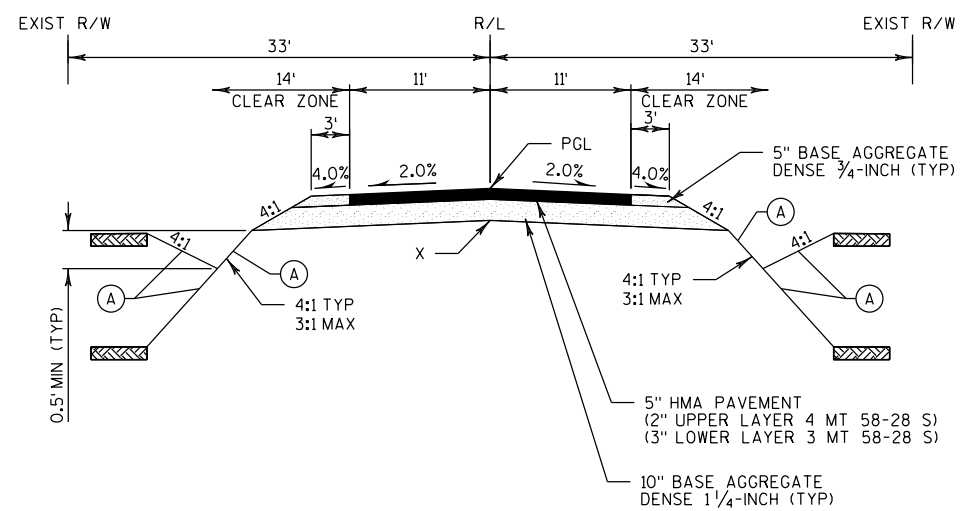


WISCONN VALLEY WAY TYPICAL PROPOSED SECTION

STA 500+62 - STA 501+54

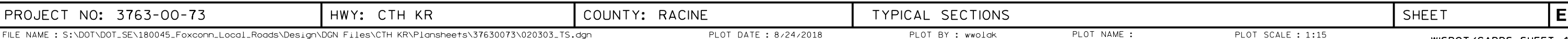
NOTE:

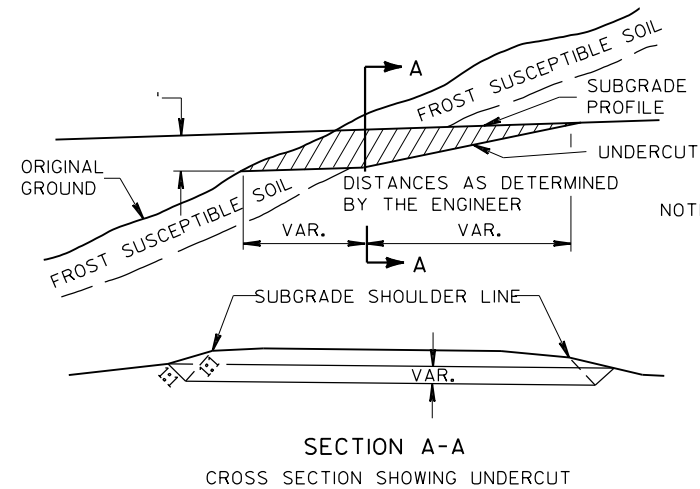
- 1) SEE PLAN DETAILS FOR LOCATIONS OF CURB AND GUTTER TYPES AND TRANSITIONS.
- 2) USE 4" BASE AGGREGATE DENSE 1 1/4-INCH BENEATH CONCRETE SIDEWALK 5-INCH AT CURB RAMP LOCATIONS.
- 3) SEE PLAN DETAILS FOR LOCATION OF RAISED ISLAND.
- Ⓐ TOPSOIL SPECIAL, FERTILIZER, SEED AND EROSION MAT



100TH AVE TYPICAL PROPOSED SECTION
STA 22+60 - STA 25+08

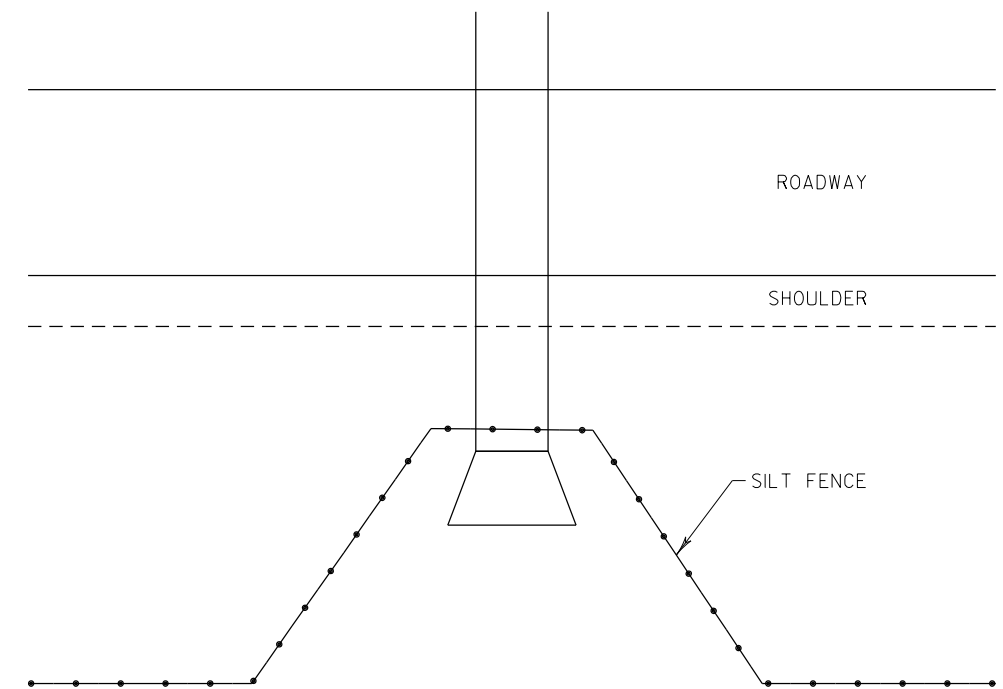
(A) TOPSOIL, FERTILIZER, SEED AND EROSION MAT
X = POINT REFERENCED ON CROSS SECTIONS
PGL = POINT REFERRED TO ON PROFILE





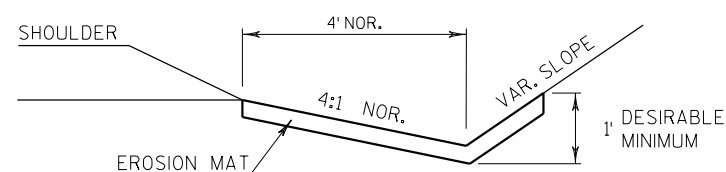
EXCAVATION BELOW SUBGRADE AT CUTS

NOTE: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
E.B.S. AREA TO BE BACKFILLED WITH ITEM "EBS BACKFILL"
BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.



NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

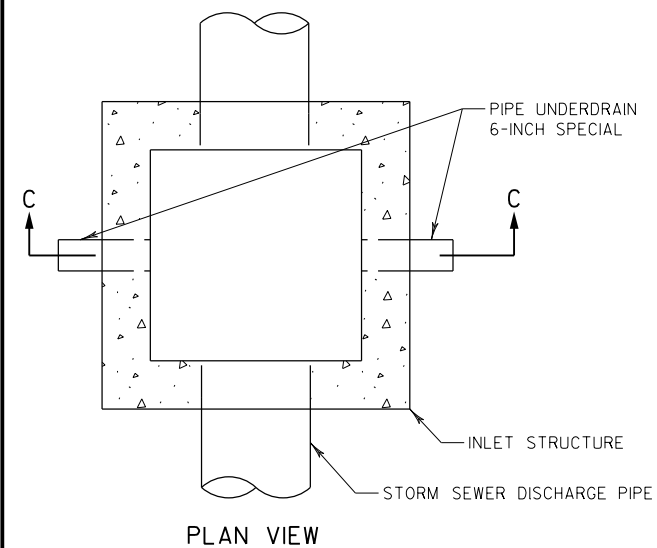
TYPICAL SILT FENCE DETAIL AT PIPE INLET



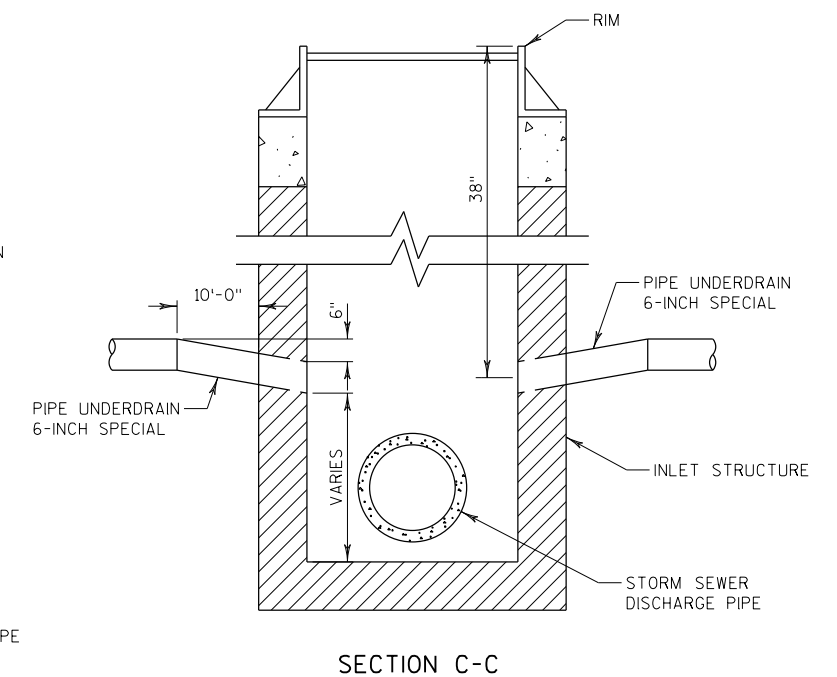
EROSION MAT DETAIL FOR DITCHES

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN, 6-INCH SPECIAL.
2. PROVIDE 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 38" BELOW THE RIM ELEVATION.
3. SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.
4. CONNECTION TO INLET OR MANHOLE IS INCIDENTAL TO THE PIPE UNDERDRAIN 6-INCH SPECIAL BID ITEM.



UNDERDRAIN OUTFALL AT INLET

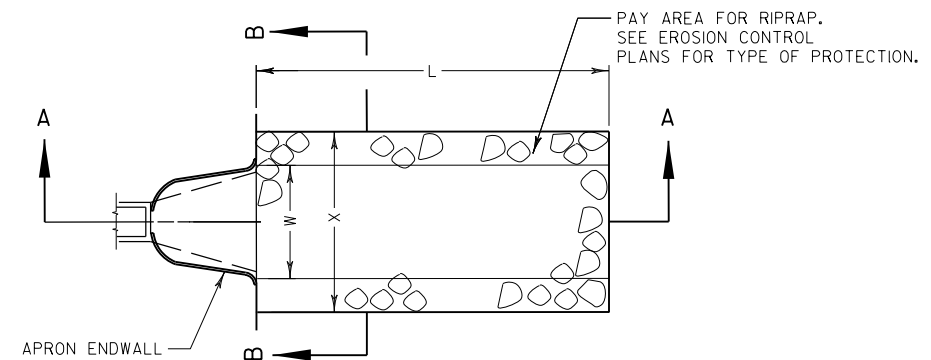


RUNOFF COEFFICIENT TABLE

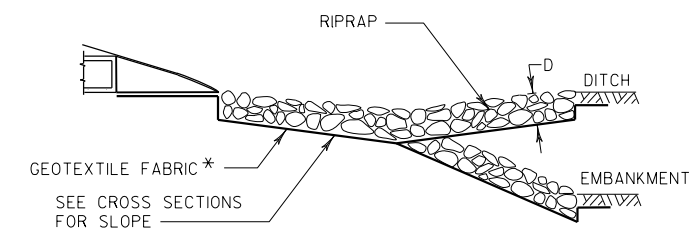
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT: HMA												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 40.99 ACRES

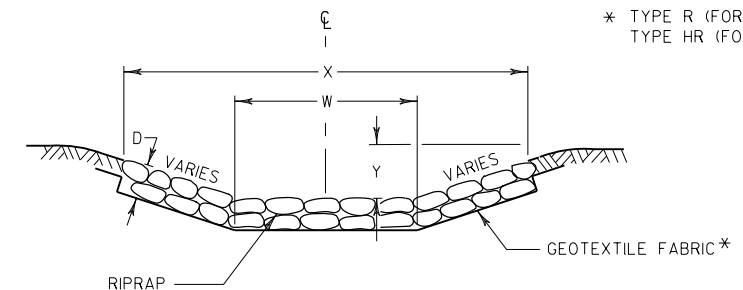
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 40.99 ACRES



PLAN VIEW



SECTION A-A



SECTION B-B

L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM

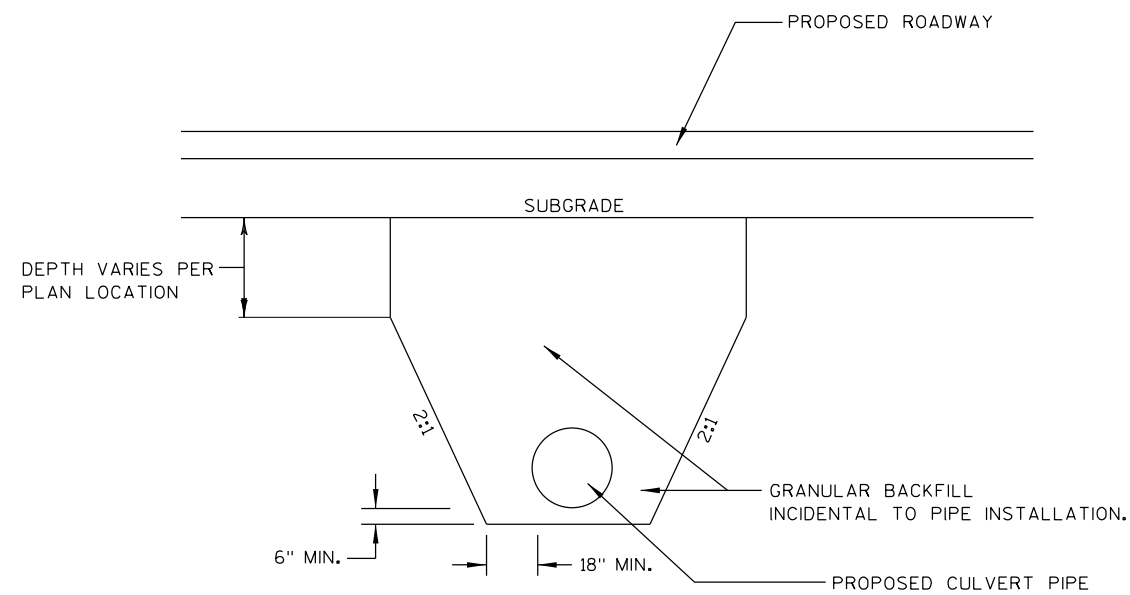
X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

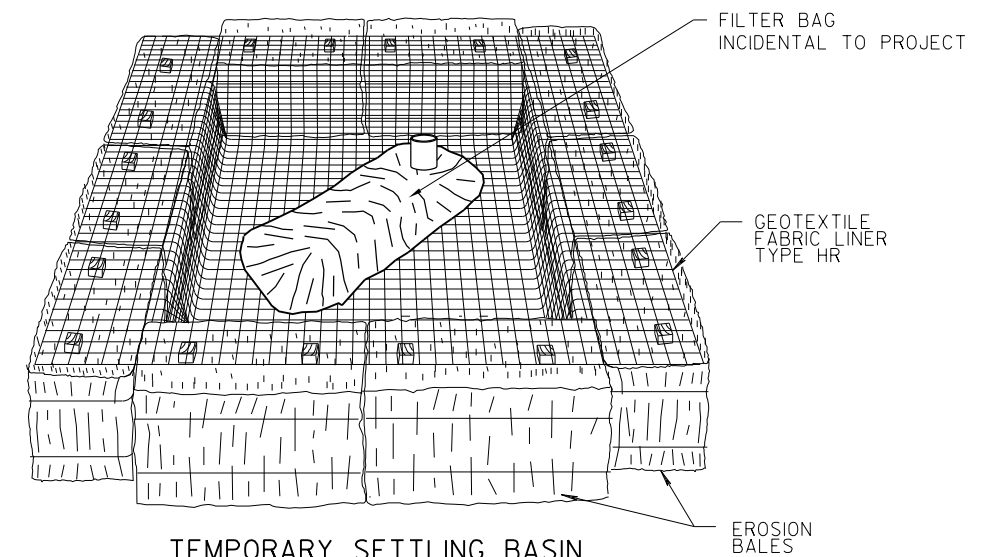
* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR MEDIUM ONLY)

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS



DETAIL FOR INSTALLATION OF PIPES

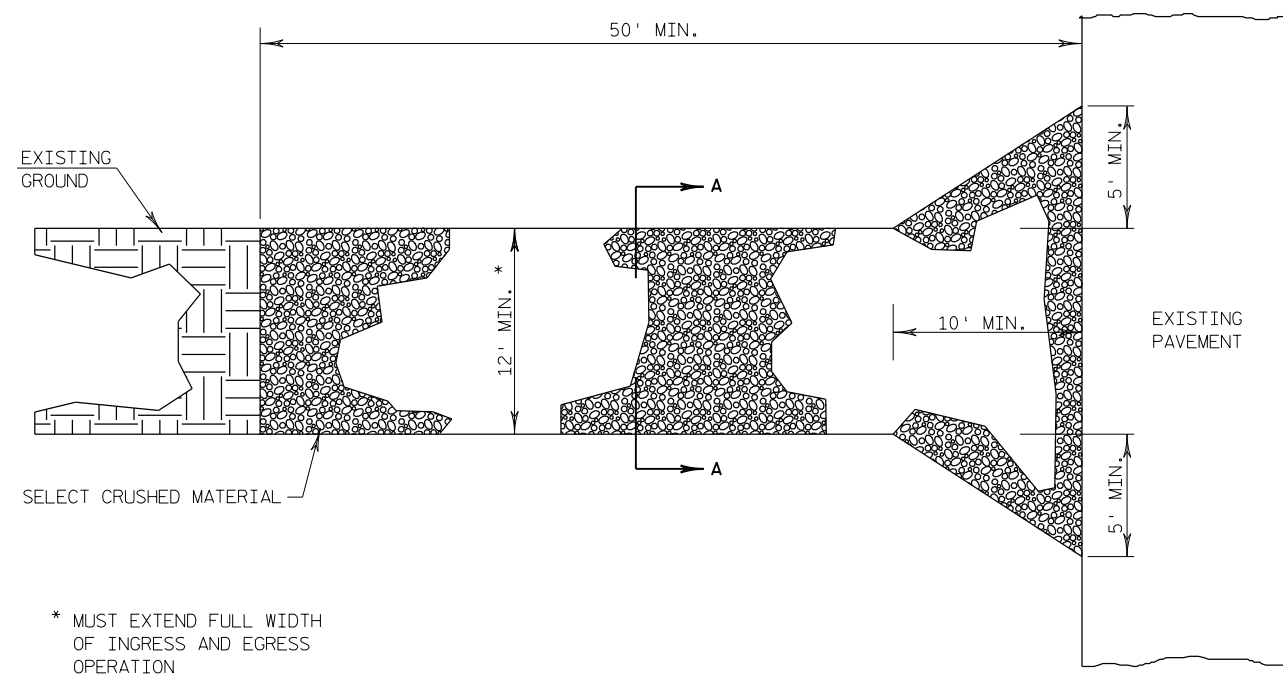


TEMPORARY SETTLING BASIN
(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:)

STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.
 $\frac{800 \text{ C.F.}}{1.5 \text{ FT.}} = 533 \text{ S.F.}$
USE A 20 FT. X 27 FT. BASIN

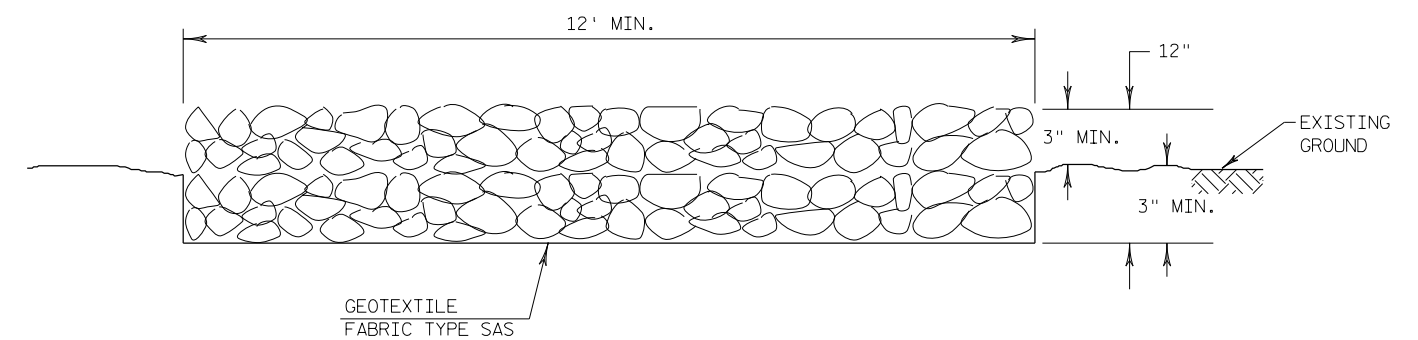


* MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION

PLAN VIEW

TRACKING PADS

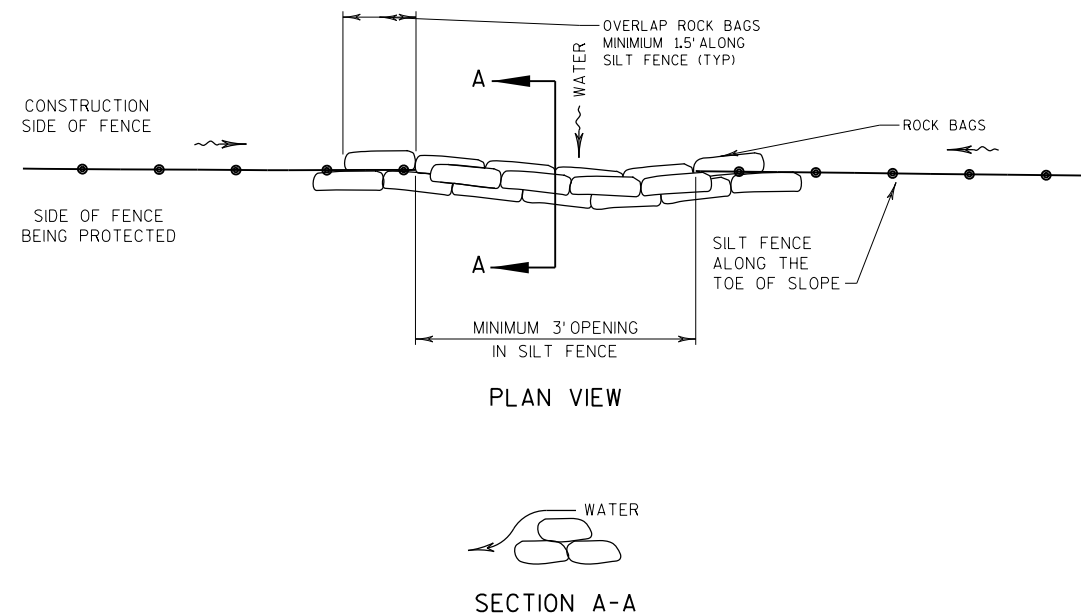
FOR CONSTRUCTION EGRESS POINTS



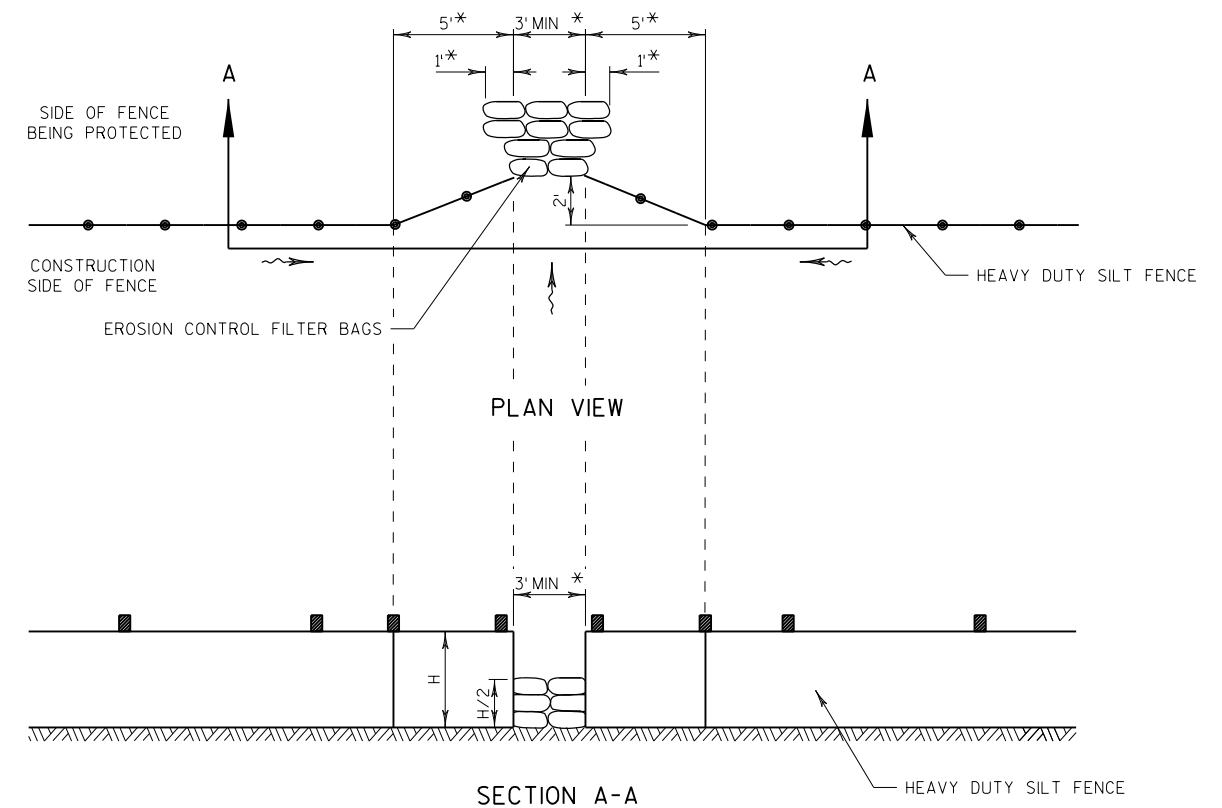
SECTION A-A

NOTE:

- 1) TRACKING MATS SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.



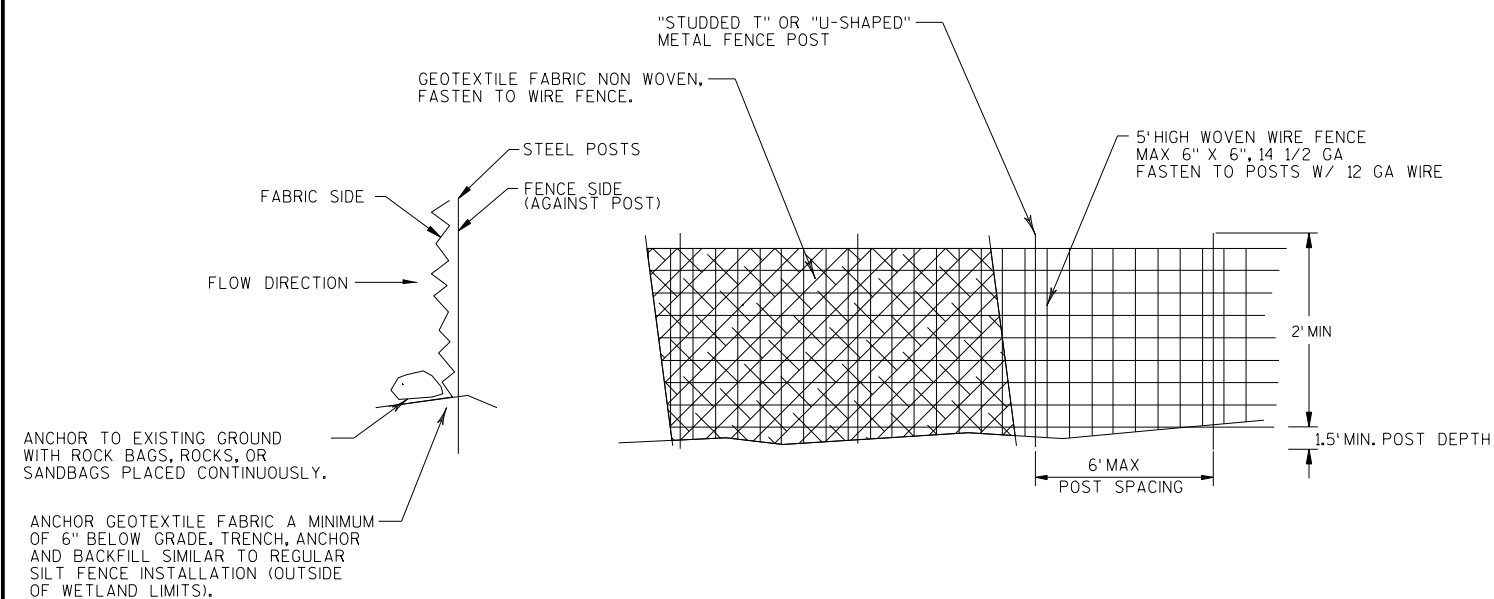
SILT FENCE DRAINAGE OUTLET, ROCK BAGS



SILT FENCE DRAINAGE OUTLET, EROSION CONTROL FILTER BAGS
(FOR USE IN ENVIRONMENTALLY SENSITIVE AREAS)

* DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS
AS DIRECTED BY THE ENGINEER.

NOTE: ANCHOR MATERIAL INCIDENTAL TO
HEAVY DUTY SILT FENCE ITEM

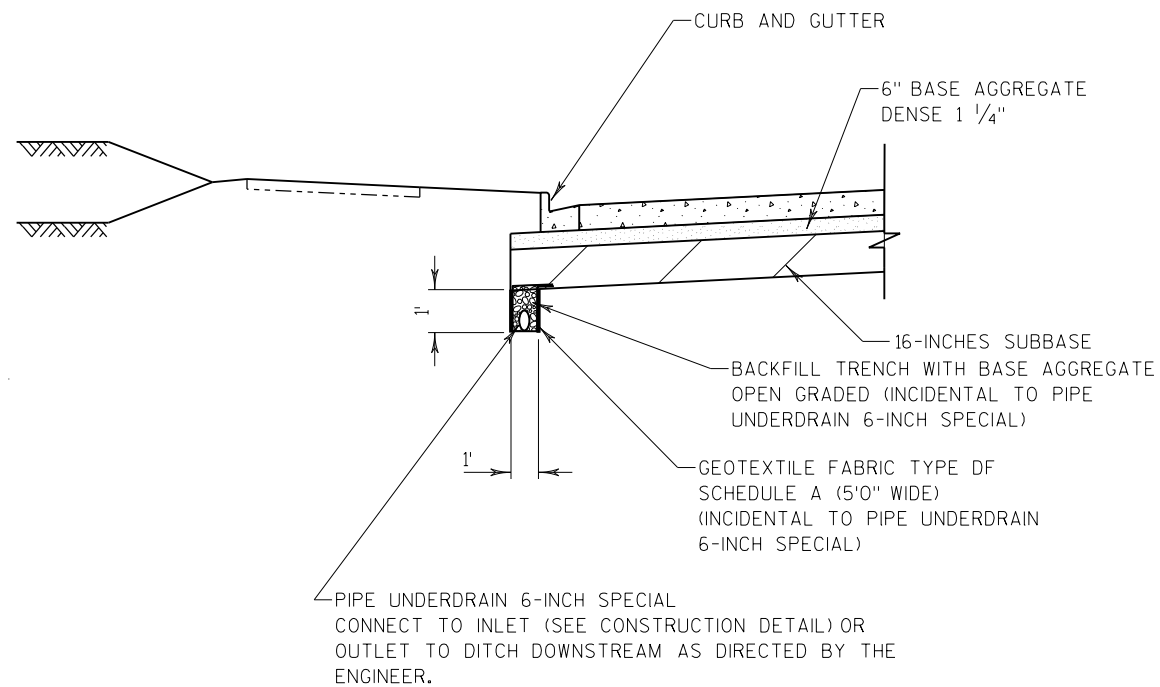


HEAVY DUTY SILT FENCE

2

NOTES

1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.
2. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.

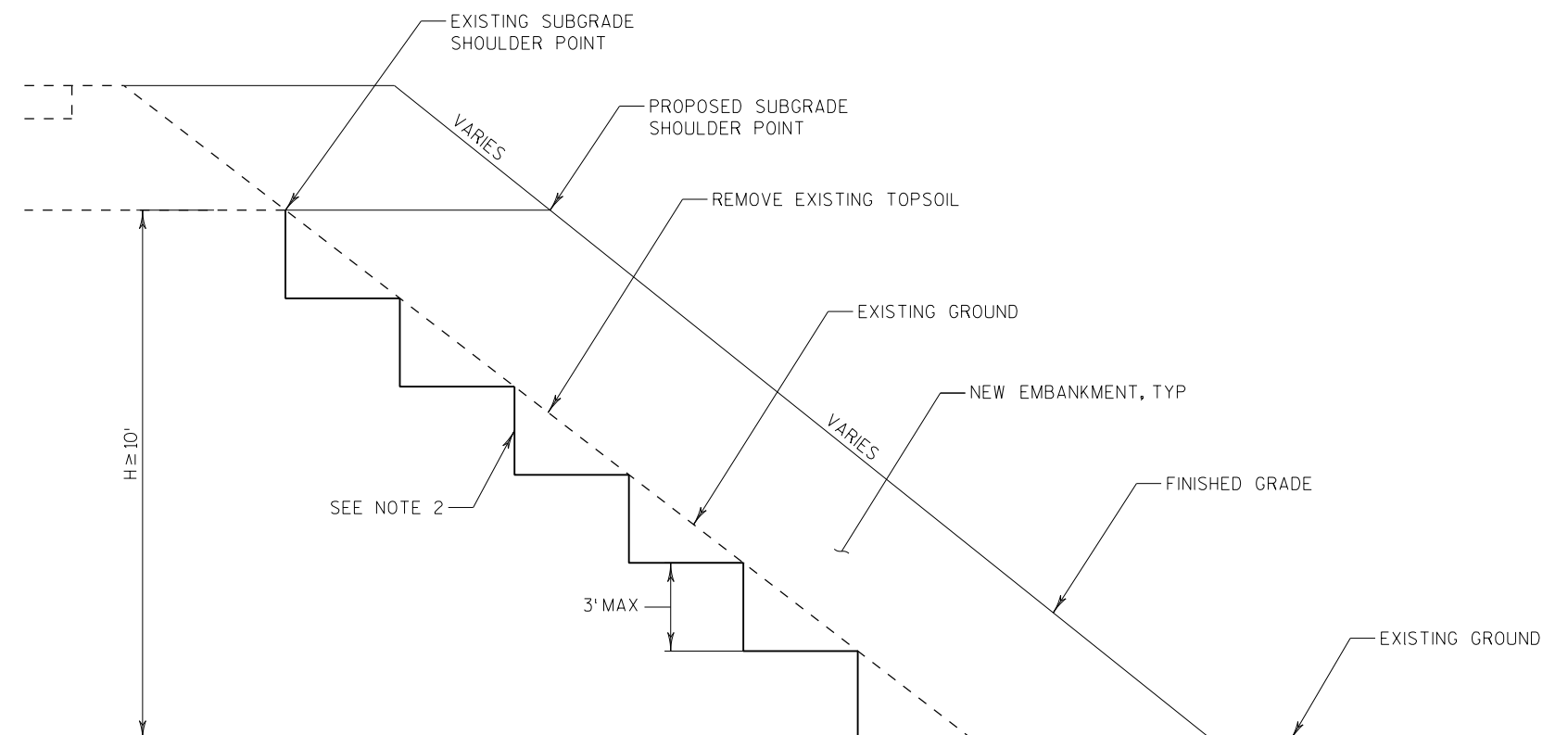


PIPE UNDERDRAIN

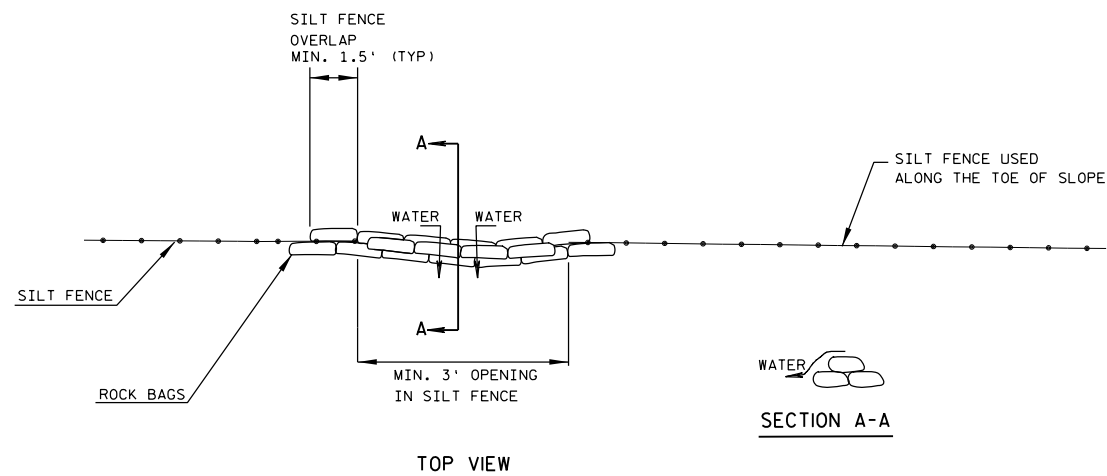
NOTES

1. EMBANKMENT PLACED IN LAYERS AND COMPACTED PER SPECIFICATIONS.
2. BENCH AS REQUIRED TO FACILITATE CONSTRUCTION FILLING OPERATIONS (3' MAXIMUM BENCH DEPTH, INCIDENTAL).
3. EBS AS REQUIRED IN THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE PAID UNDER THE ITEM "EBS EXCAVATION".

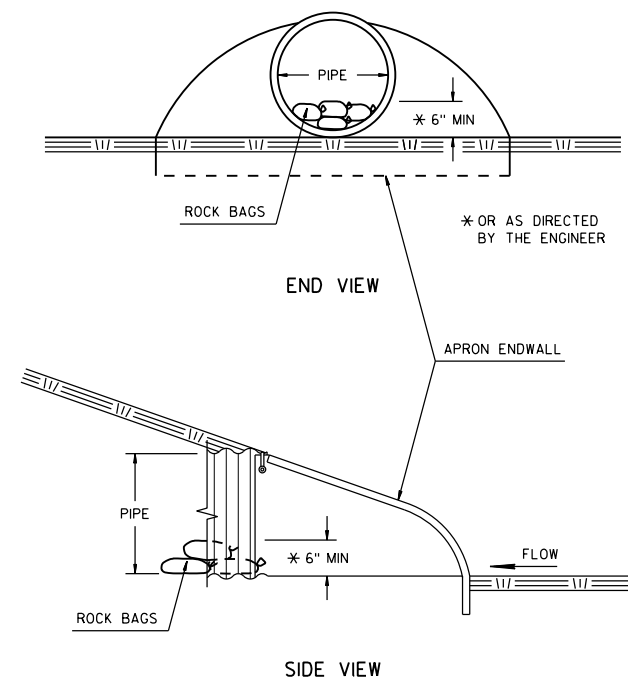
2 |



STEPPED EMBANKMENT



ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL



ROCK BAGS AT CULVERT PIPE ENDS

ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NUMBER OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7
48"	10
54"	10
60"	13
66"	14
72"	16
13"X17"	2
19"X30"	5
24"X38"	7
29"X45"	10
34"X53"	10
38"X60"	13
48"X76"	18

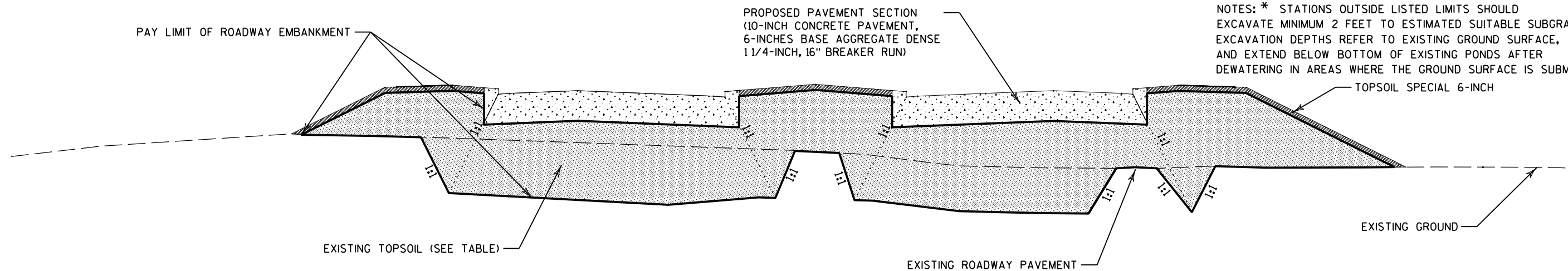
NOTES:

- STRIP TOPSOIL FROM ROADWAY FOUNDATION. REPLACE WITH ROADWAY EMBANKMENT.
- EXCESS TOPSOIL REMOVED NOT REQUIRED TO COVER SIDE SLOPES UNDER THE TOPSOIL SPECIAL BID ITEM TO BE PAID AS EXCAVATION COMMON.
- THE TOPSOIL THICKNESS MAY BE INCREASED TO 12" OR AS DIRECTED BY THE ENGINEER TO UTILIZE EXCESS TOPSOIL. TOPSOIL PLACED THICKER THAN 6" WILL BE PAID FOR UNDER THE ROADWAY EMBANKMENT BID ITEM.
- IN AREAS REQUIRING 2' OF FILL OR LESS, EBS EXCAVATION SPECIAL BELOW TOPSOIL LAYER AS DIRECTED BY THE ENGINEER, REPLACE WITH EBS BACKFILL SPECIAL.

ESTIMATED LOCATIONS FOR GREATER THAN 2 FEET OF EXCAVATION TO SUITABLE SUBGRADE

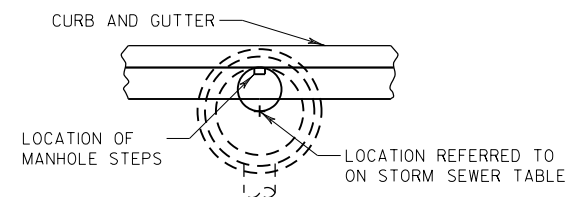
BEGIN STA	END STA	ESTIMATED REMOVAL DEPTH (FEET)*
364+00	369+00	5
369+00	377+75	3.5
377+75	379+75	4
386+50	406+50	3
417+00	420+00	3
440+50	446+50	3

NOTES: * STATIONS OUTSIDE LISTED LIMITS SHOULD EXCAVATE MINIMUM 2 FEET TO ESTIMATED SUITABLE SUBGRADE. EXCAVATION DEPTHS REFER TO EXISTING GROUND SURFACE, AND EXTEND BELOW BOTTOM OF EXISTING PONDS AFTER DEWATERING IN AREAS WHERE THE GROUND SURFACE IS SUBMERGED.

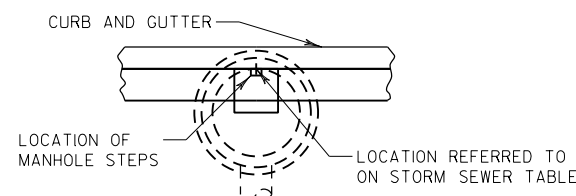


TOPSOIL REMOVAL DETAIL

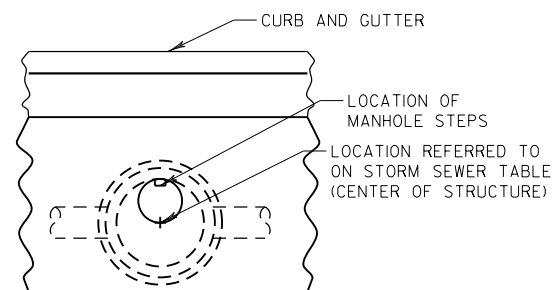
NOTE
 1) LOCATION OF STRUCTURE MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
 2) LOCATION AND SIZE OF STRUCTURE COVER OPENING DEPENDS ON TYPE OF CASTING. CASTING TYPES ARE SHOWN ON THE STORM SEWER TABLE.



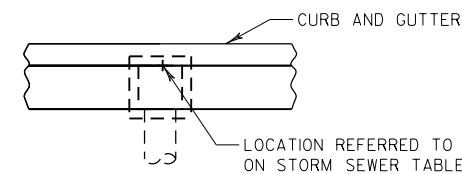
MANHOLE IN CURB AND GUTTER



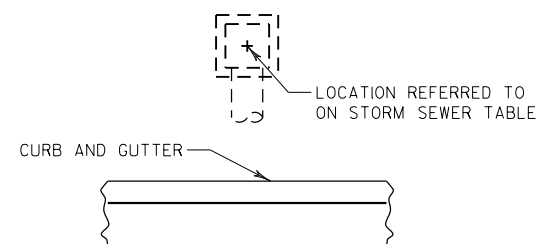
MANHOLE WITH INLET COVER
IN CURB AND GUTTER



MANHOLE NOT IN CURB AND GUTTER



INLET IN CURB AND GUTTER



INLET NOT IN CURB AND GUTTER

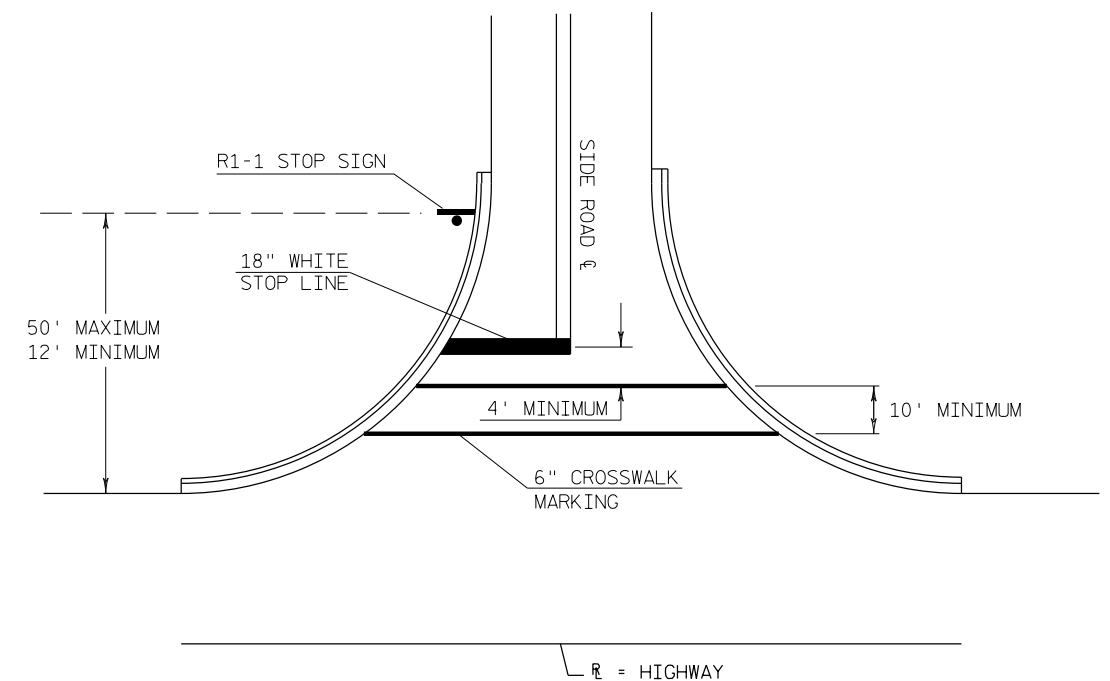
STRUCTURE LOCATION DETAIL

NOTES:

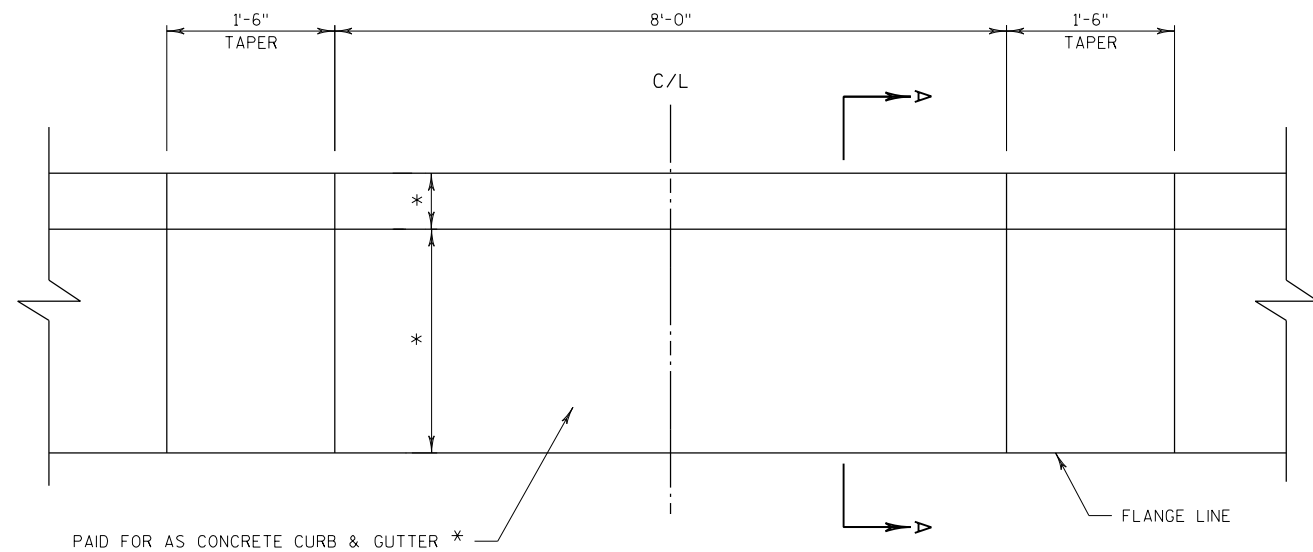
18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

STOP LINES REQUIRED WHERE:

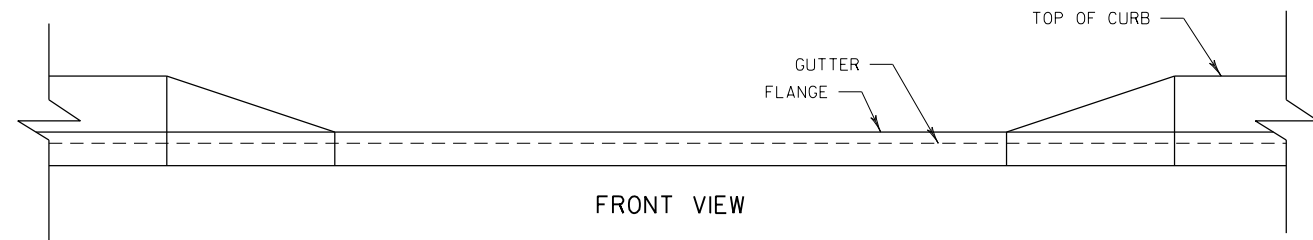
- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
- LARGE RADII
- OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.



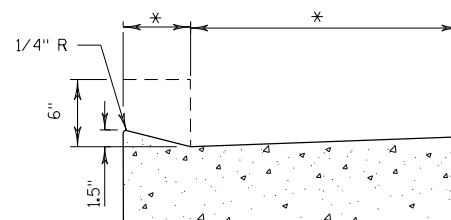
TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



PLAN VIEW



FRONT VIEW



SECTION A-A

* TYPE AND DIMENSIONS TO MATCH ADJACENT CURB AND GUTTER.

MAINTENANCE OPENING

LOCATIONS SHOWN ON PAVING DETAILS

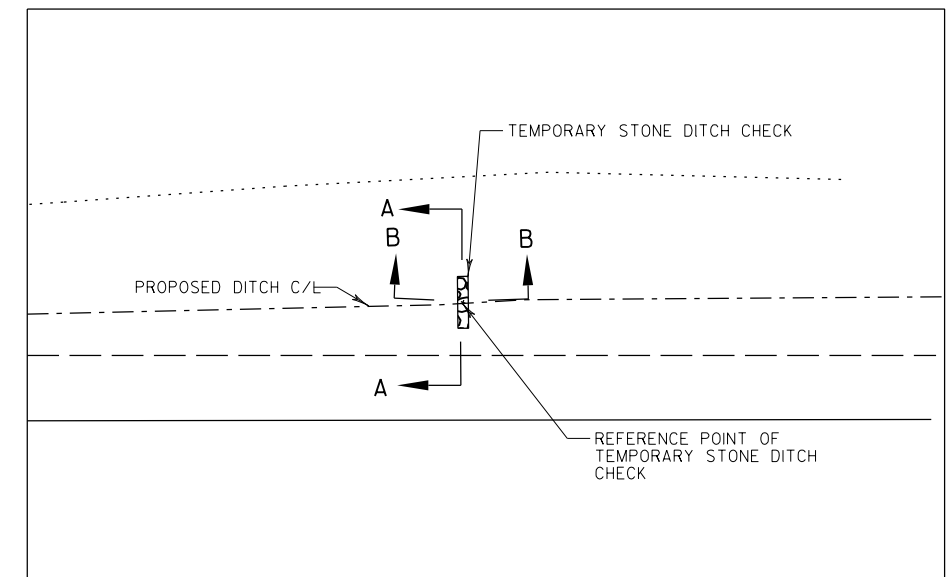
GENERAL NOTES

STONE DITCH CHECKS MUST BE INSTALLED WITH THE CENTER LOWER THAN THE SIDES FORMING A WEIR (SEE SECTION A-A).

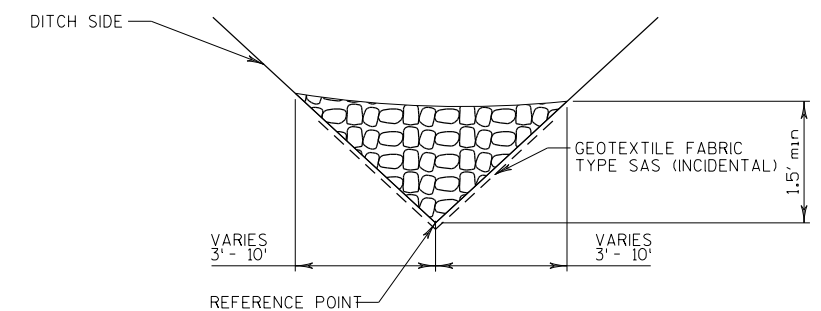
STONE DITCH CHECKS SHALL HAVE A MINIMUM TOP WIDTH OF 2-FT MEASURED IN THE DIRECTION OF FLOW WITH MAXIMUM SLOPES OF 2:1 ON THE UPSLOPE AND 2:1 ON THE DOWN SLOPE SIDE.

STONE DITCH CHECKS SHALL BE CONSTRUCTED OF A WELL-GRADED LIGHT RIPRAP MATERIAL.

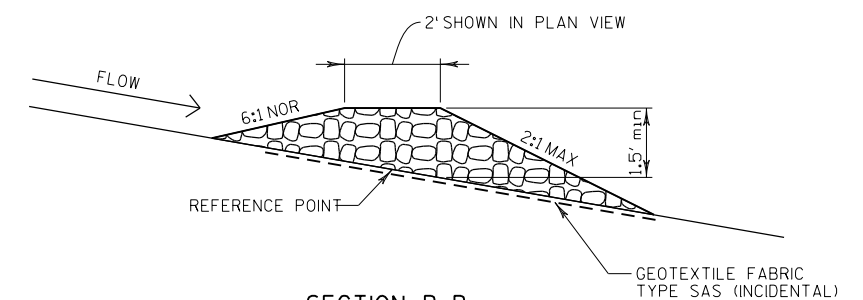
STONE DITCH CHECKS IDENTIFIED IN STORM SEWER PLAN ARE PERMANENT AND SHALL NOT BE REMOVED UPON COMPLETION OF CONSTRUCTION.



PLAN VIEW



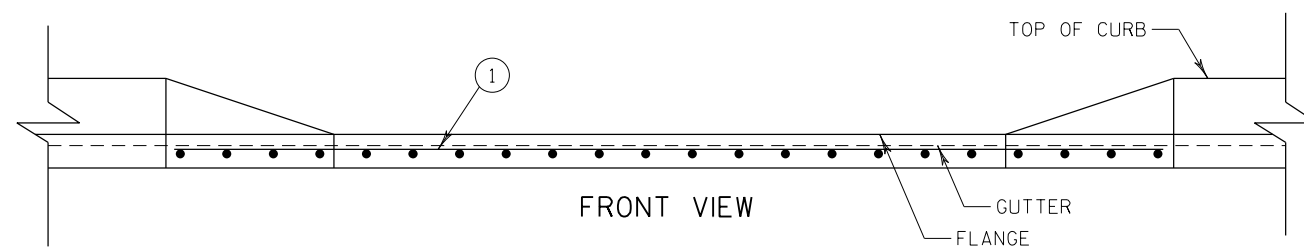
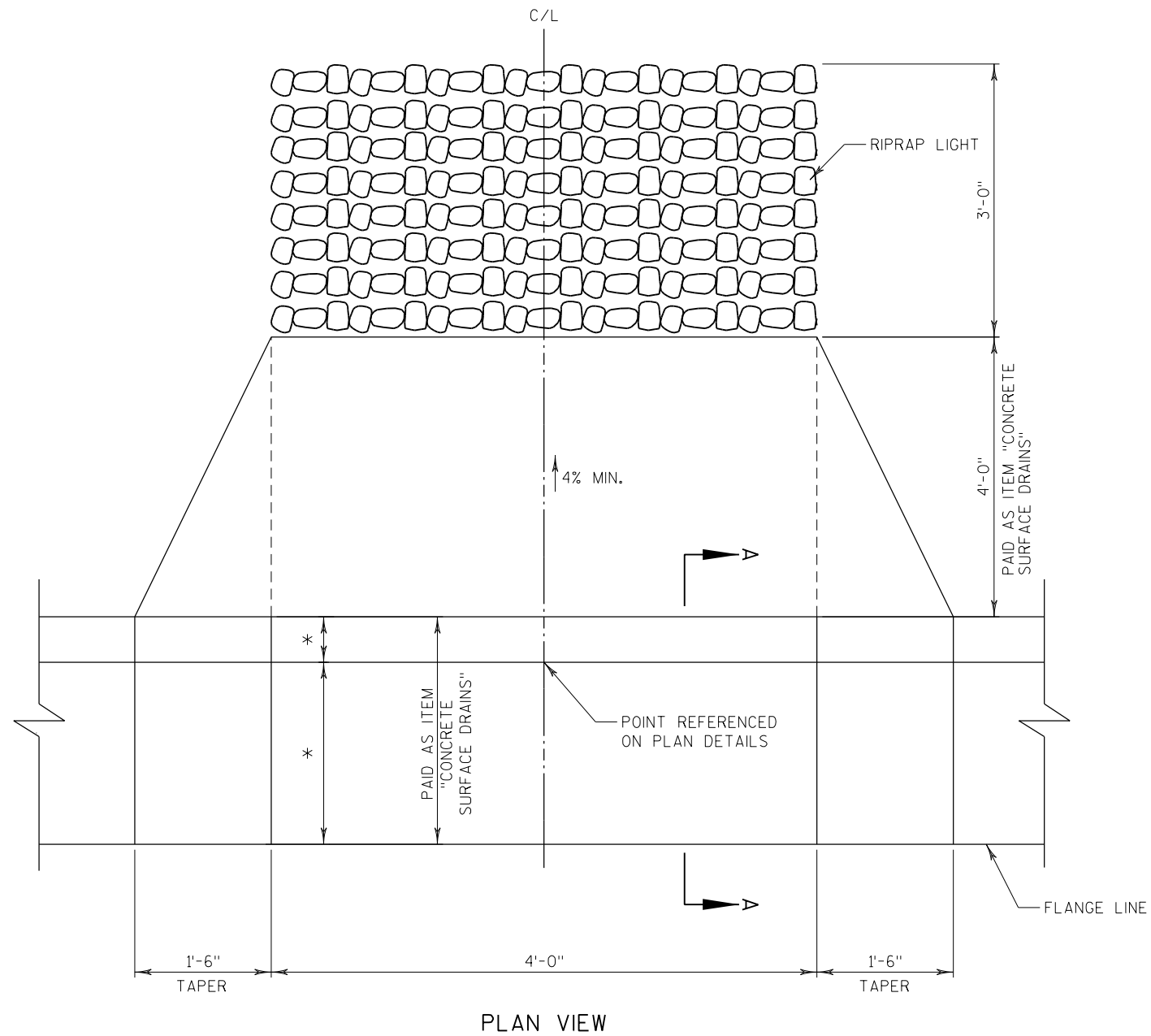
SECTION A-A



SECTION B-B

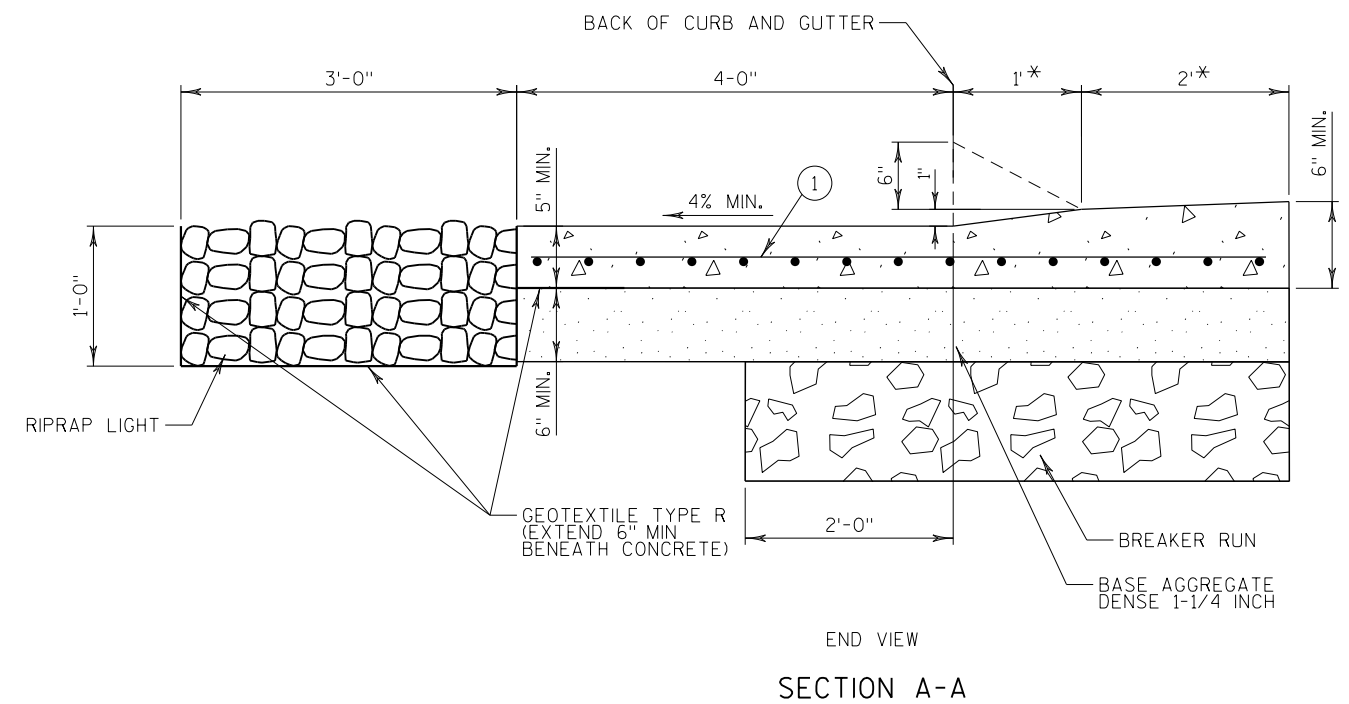
TEMPORARY STONE DITCH CHECKS

2



① MINIMUM REINFORCEMENT 4"X4" W3.0 X W3.0 WELDED STEEL WIRE FABRIC

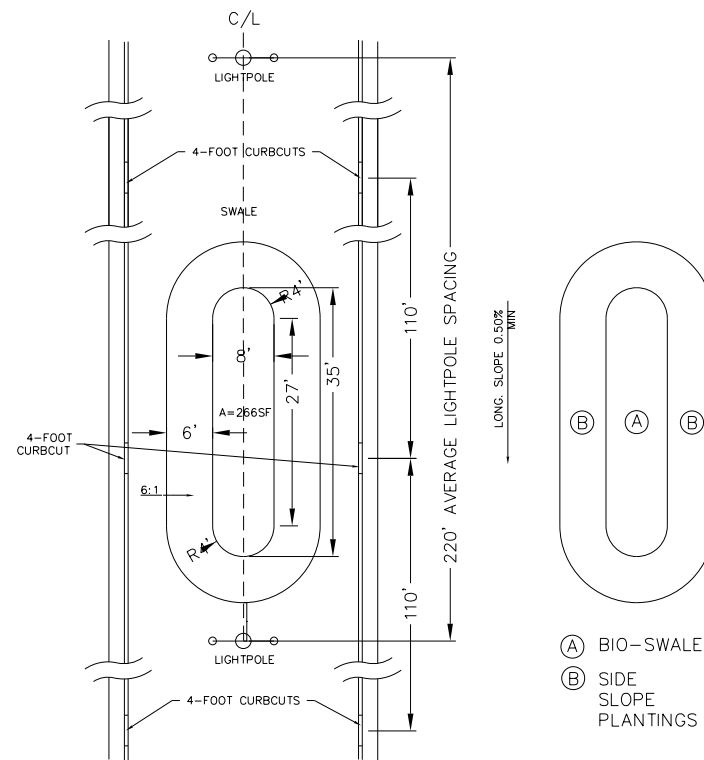
2 |



* TYPE AND DIMENSIONS TO MATCH
ADJACENT CURB AND GUTTER.

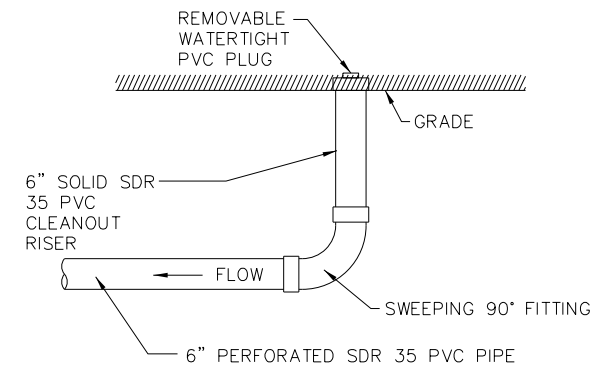
BIOSWALE CURB OPENING

LOCATIONS SHOWN ON PAVING DETAILS

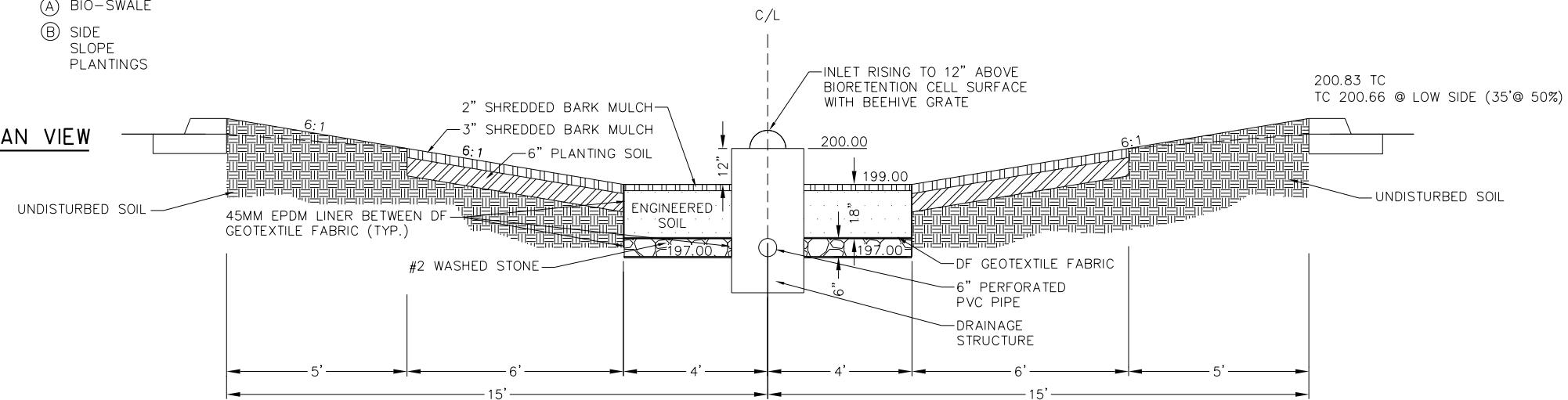


BIORETENTION CELL DETAIL - PLAN VIEW

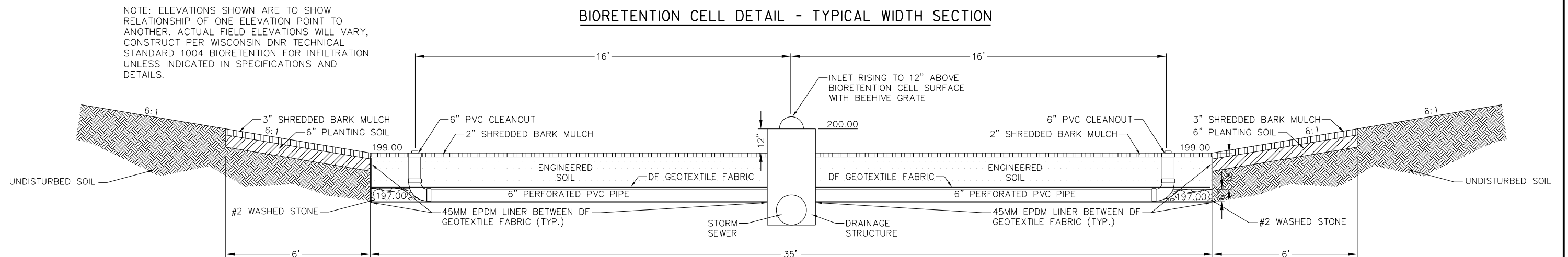
(A) BIO-SWALE
(B) SIDE SLOPE PLANTINGS



BIORETENTION CELL DETAIL - DRAINTILE CLEANOUT

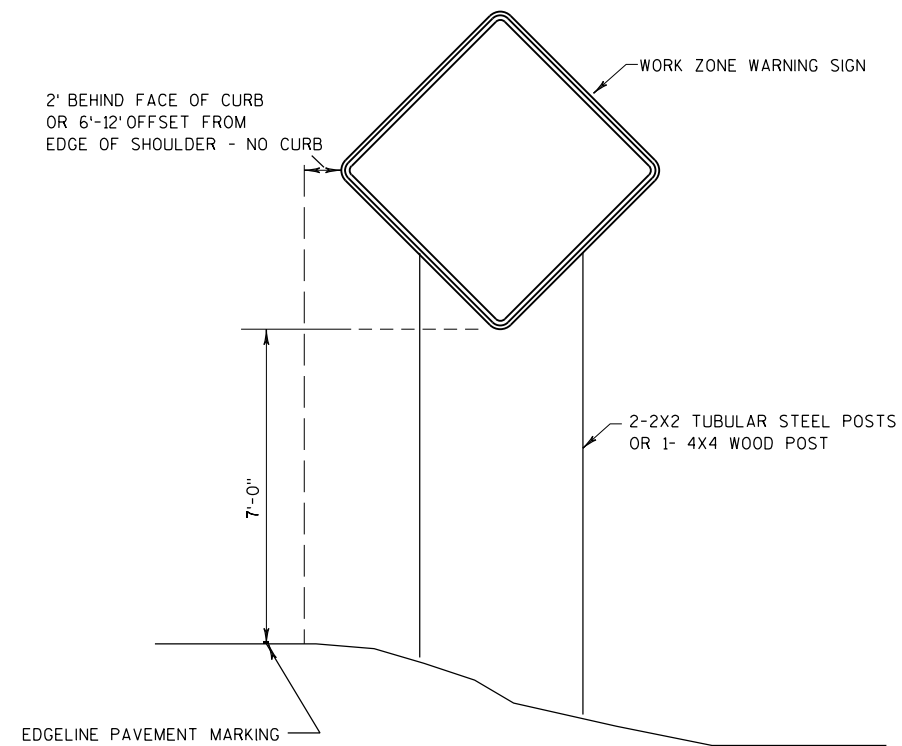


BIORETENTION CELL DETAIL - TYPICAL WIDTH SECTION



BIORETENTION CELL DETAIL - TYPICAL LONG SECTION

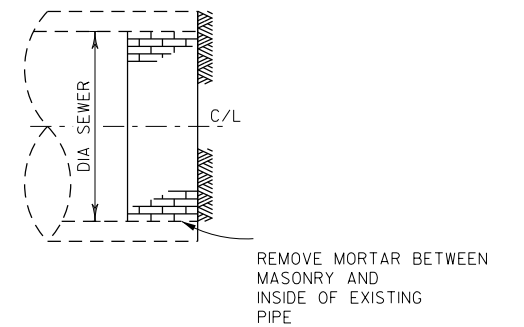
2



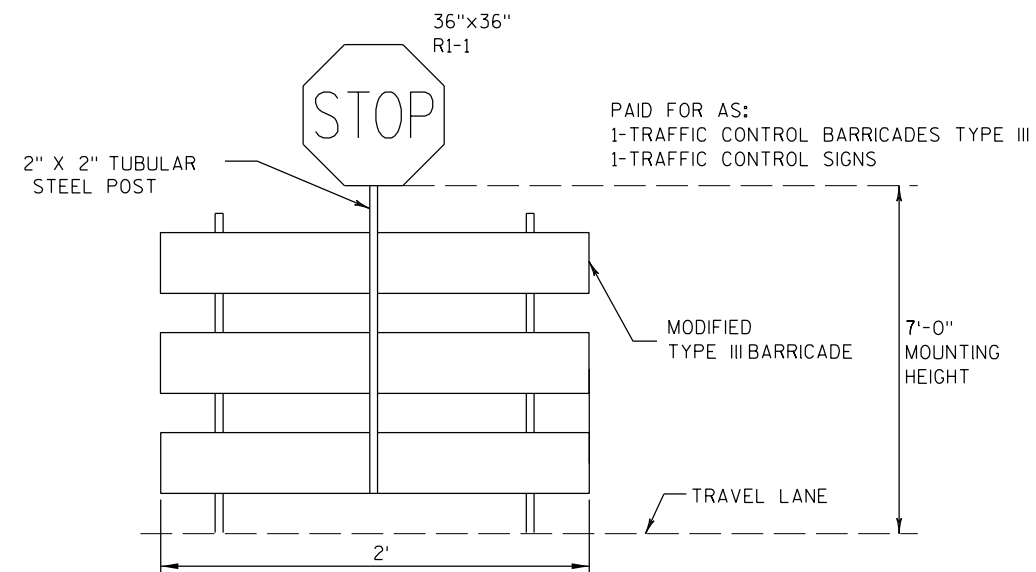
TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE

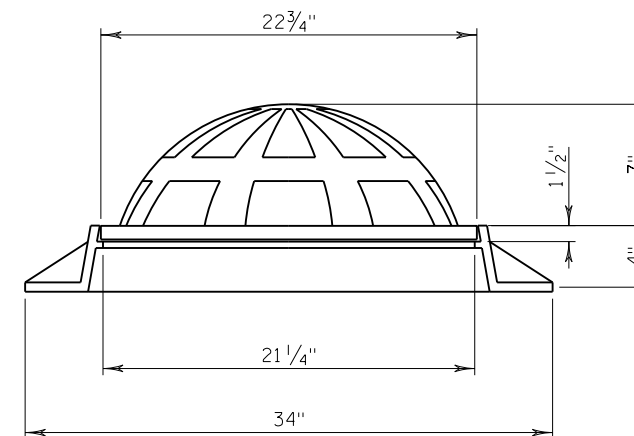
2



REMOVING BULKHEAD



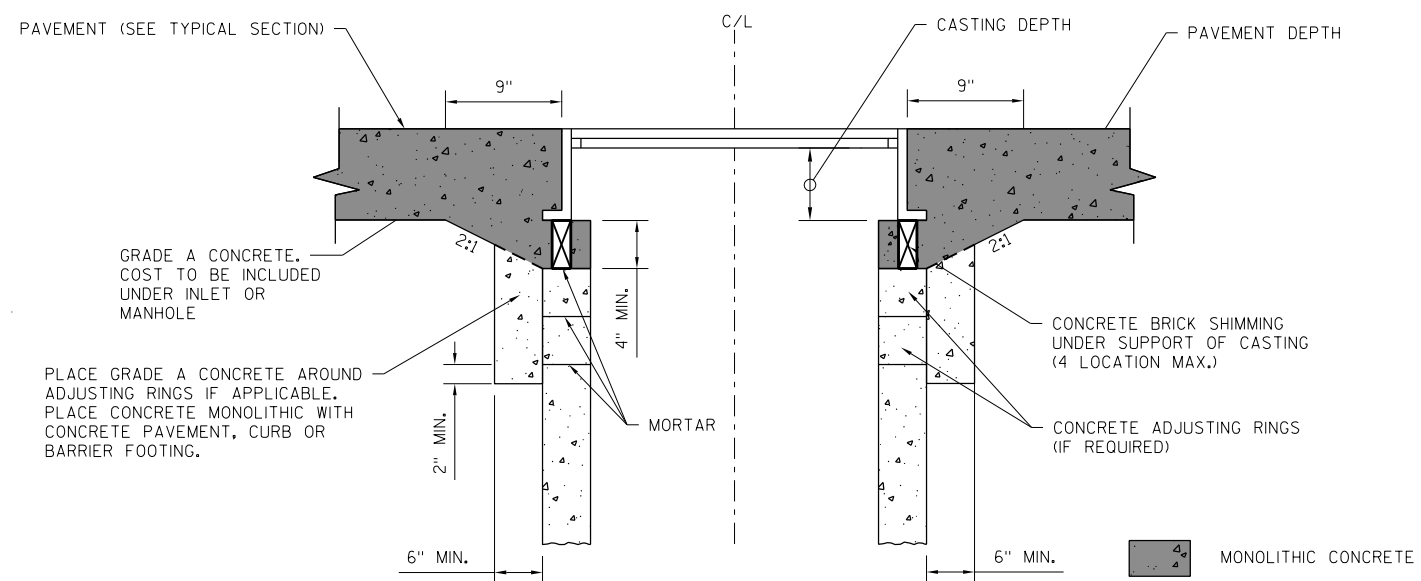
TEMPORARY STOP SIGN



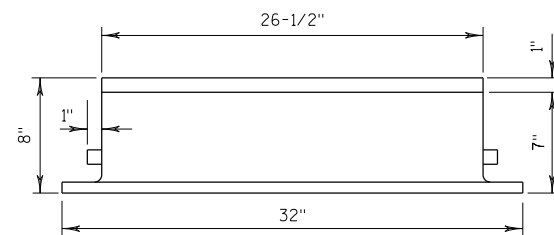
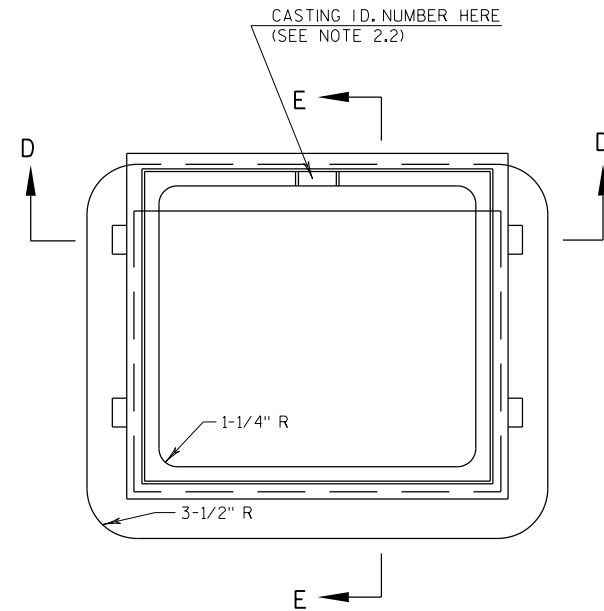
INLET COVERS BEEHIVE

NOTES

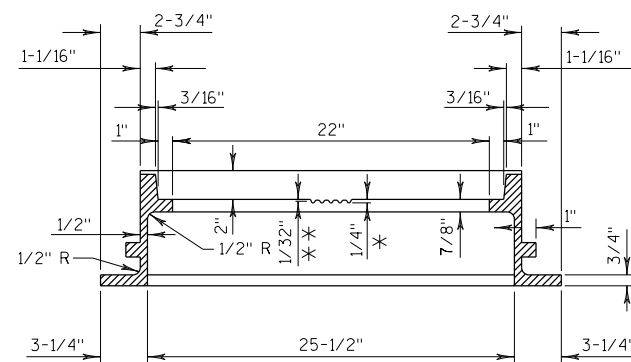
- (1) PROVIDE MONOLITHIC CONCRETE SHIMMING FOR FINAL ADJUSTMENT OF DRAINAGE STRUCTURES LOCATED WITHIN THE ROADWAY CONCRETE PAVEMENT AND CONCRETE CURB & GUTTER.



MONOLITHIC CONCRETE SHIMMING DETAIL

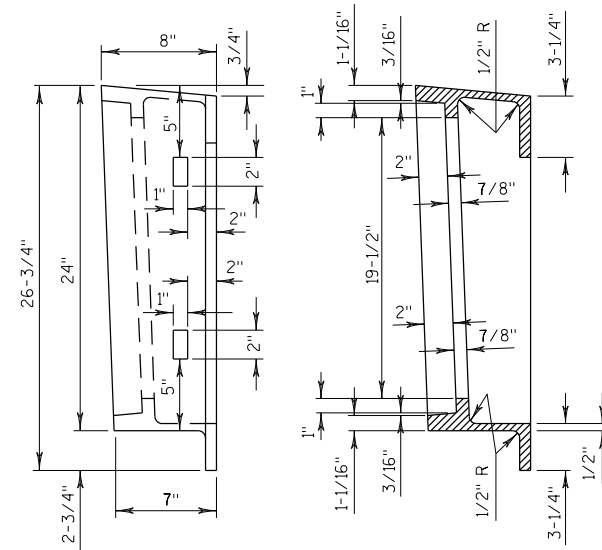


FRAME

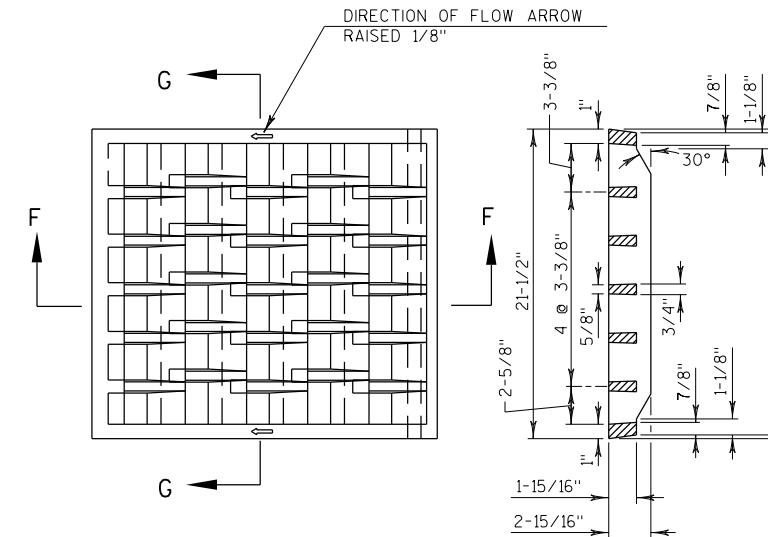


SECTION D-D

* DEPRESSION FOR LETTERS

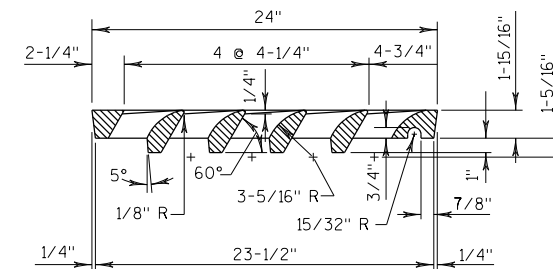
* * CLEARANCE FROM TOP OF
LETTERS TO FACE OF SEAT

SECTION E-E



GRATE

SECTION G-G



SECTION F-F

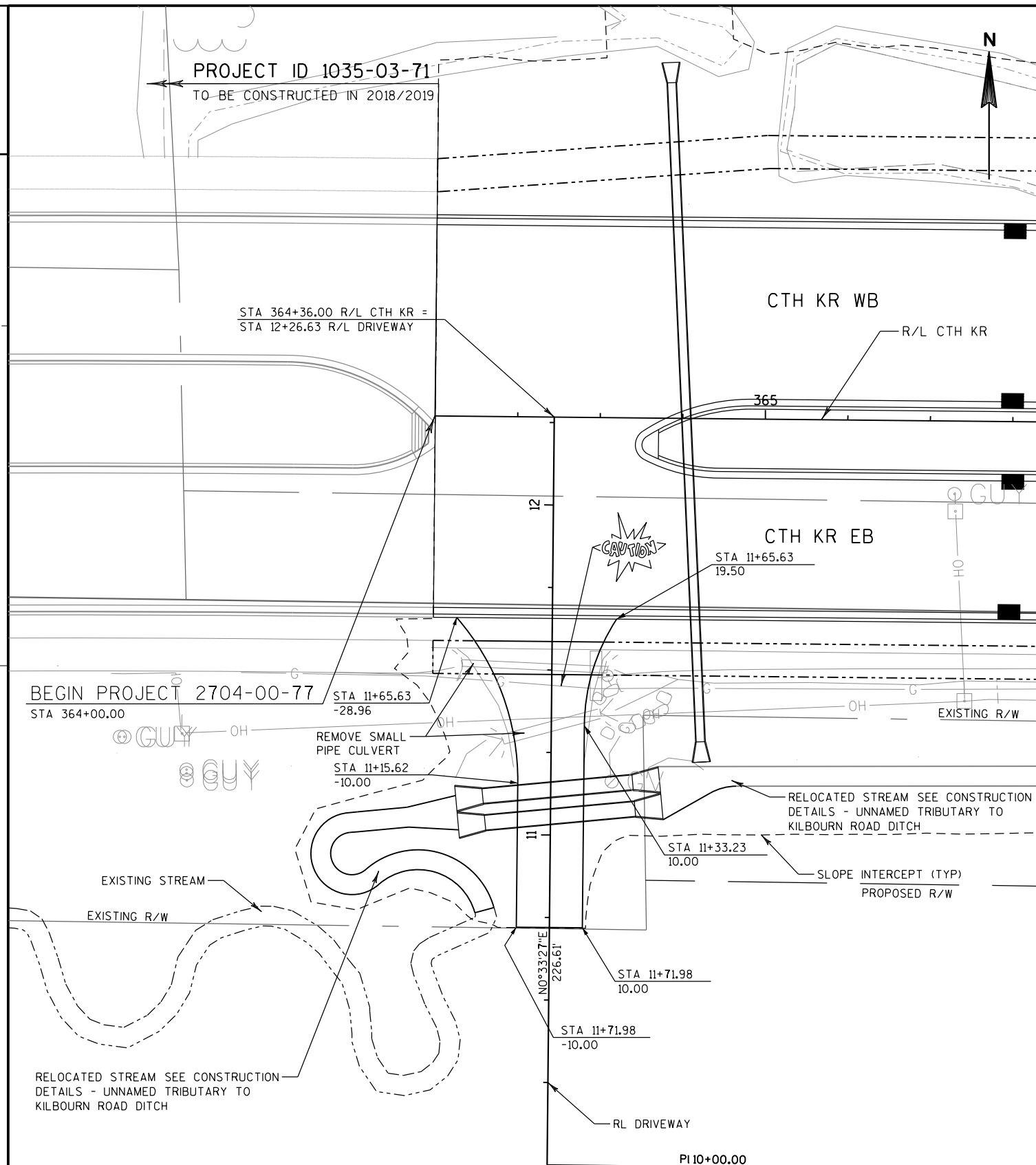
GENERAL NOTES

- ALL EDGES ARE TO BE GROUND.
- ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED 1/8":
 - ON THE FRAME
 - ON THE UPPER FACE OF THE FLANGE IN 1 INCH HIGH LETTERS THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.
 - ON THE SEAT OF THE FRAME IN 1 INCH HIGH LETTERS, THE CASTING IDENTIFICATION NUMBER (M.S.51).
 - ON THE GRATE
 - ON THE UPPER SIDE OF THE GRATE IN 1 INCH HIGH LETTERS, THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE, THE CASTING IDENTIFICATION NUMBER (M.S.57) AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

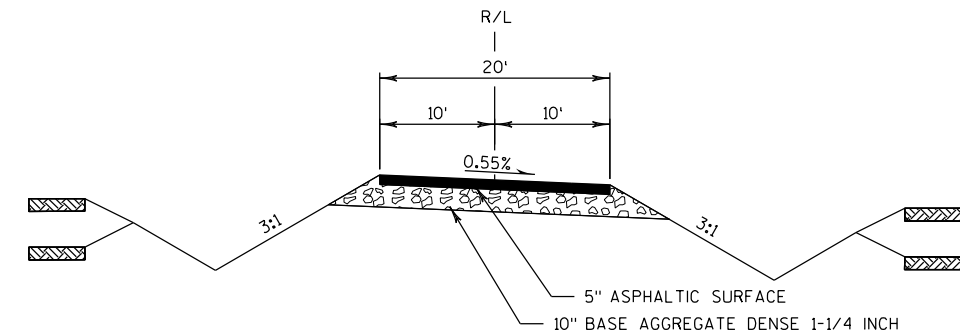
CASTING - TYPE 57

LID-145 LBS., FRAME-204 LBS.

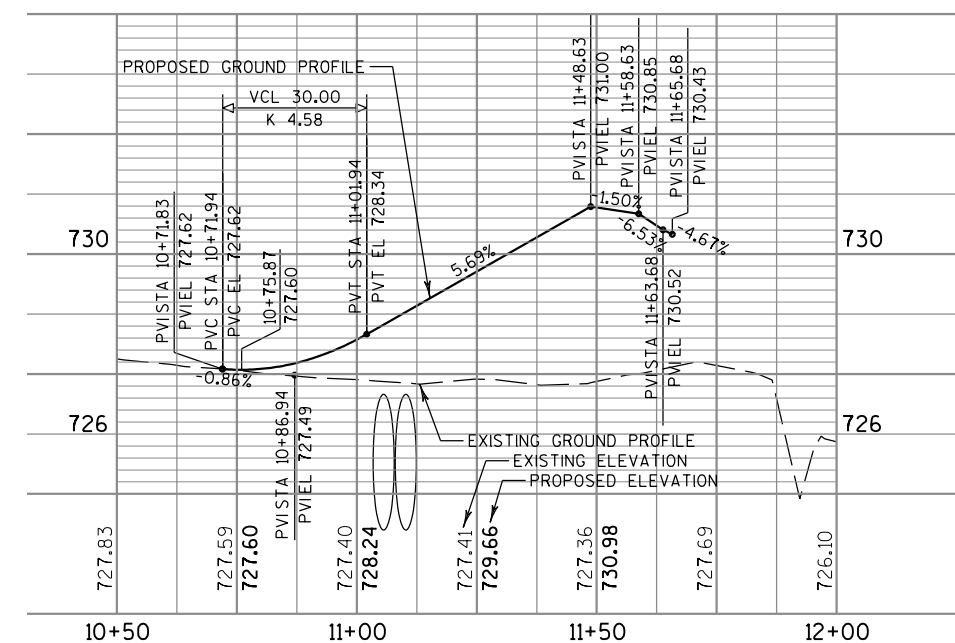
2



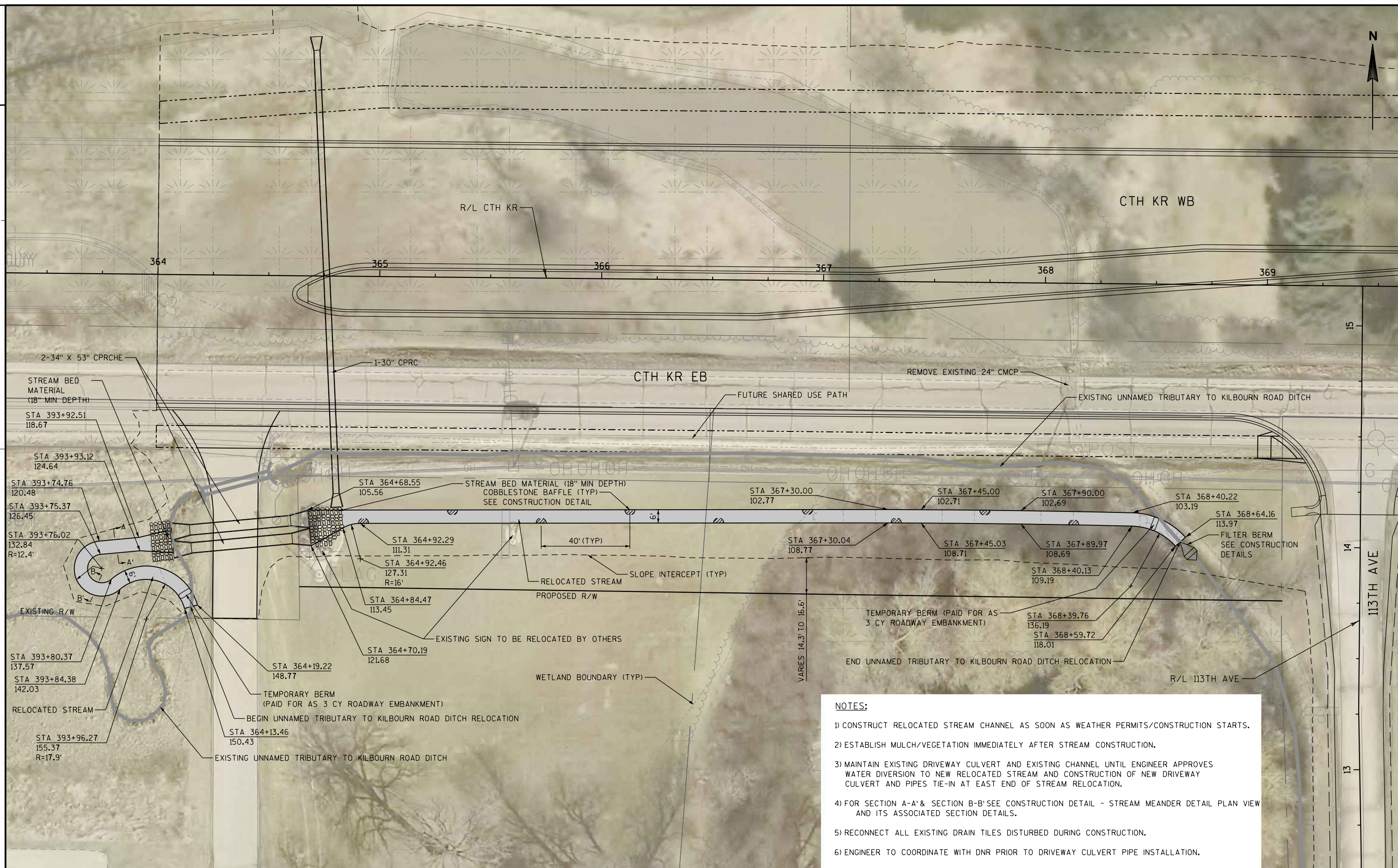
DRIVEWAY PLAN VIEW
SEE PLAN DETAILS FOR ADDITIONAL INFORMATION



DRIVEWAY TYPICAL PROPOSED SECTION



DRIVEWAY PROFILE VIEW



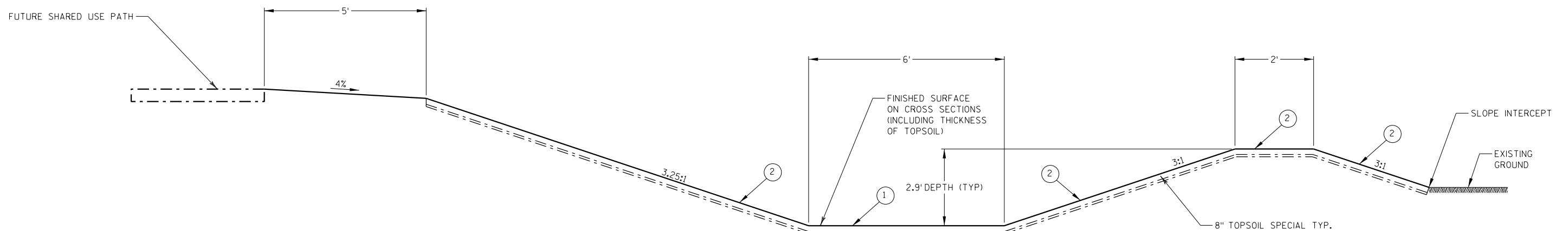
CONSTRUCTION STAGING

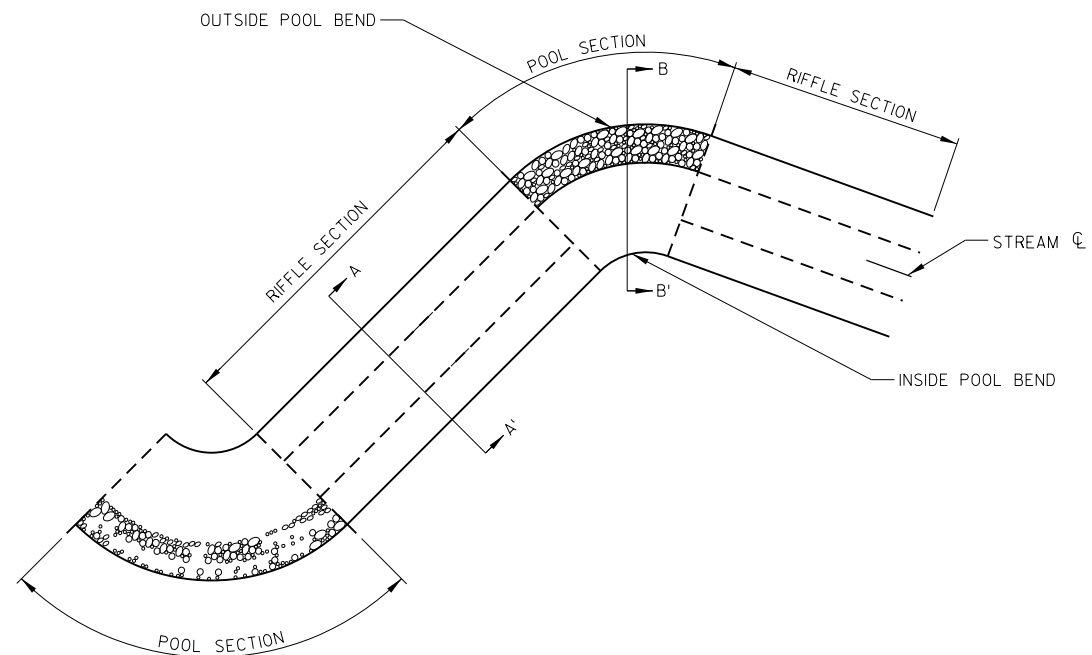
1) ALL EROSION CONTROL DEVICES MUST BE INSTALLED PRIOR TO GROUND DISTURBANCE.

2) WORK SHALL PROCEED IN A DOWNSTREAM TO UPSTREAM SEQUENCE.

LEGEND

- ① TOPSOIL SPECIAL, FERTILIZER, SEED MIX SPECIAL AND
EROSION MAT CLASS II, TYPE C (COCONUT FIBER ONLY, NO PLASTIC NETTING)
- ② TOPSOIL SPECIAL, FERTILIZER, SEED MIX SPECIAL AND
EROSION MAT CLASS I, URBAN TYPE B

TYPICAL SECTION OF TRIBUTARY



STREAM MEANDER DETAIL PLAN VIEW
UNNAMED TRIBUTARY TO KILBOURN ROAD DITCH

GLOSSARY OF TERMS:

CHANNEL: AN OPEN CONDUIT EITHER NATURALLY OR ARTIFICIALLY CREATED WHICH PERIODICALLY OR CONTINUOUSLY CONTAINS MOVING WATER.

FLOOD PLAIN: ANY FLAT OR NEARLY FLAT LOWLAND THAT BORDERS A STREAM AND IS COVERED BY ITS WATERS AT FLOOD STAGE.

MEANDER: A SINUOUS CHANNEL FORM IN FLATTER RIVER GRADES FORMED BY THE EROSION ON THE OUTER SIDE OF THE CHANNEL AND DEPOSITION ON THE INNER SIDE.

POINT BAR: A BANK ON THE INSIDE OF A MEANDER BEND THAT HAS BUILT UP DUE TO SEDIMENT DEPOSITION OPPOSITE A POOL.

POOL: A LOCATION IN AN ACTIVE STREAM CHANNEL USUALLY LOCATED ON THE OUTSIDE BENDS OF MEANDERS WHERE THE WATER IS DEEPEST AND HAS REDUCED CURRENT VELOCITIES.

RIFFLE: A SHALLOW RAPIDS OR AREA WITH INCREASED CURRENT VELOCITIES, USUALLY LOCATED AT THE CROSSOVER IN A MEANDER OF THE ACTIVE CHANNEL (SEE TYPICAL RIFFLE SECTION).

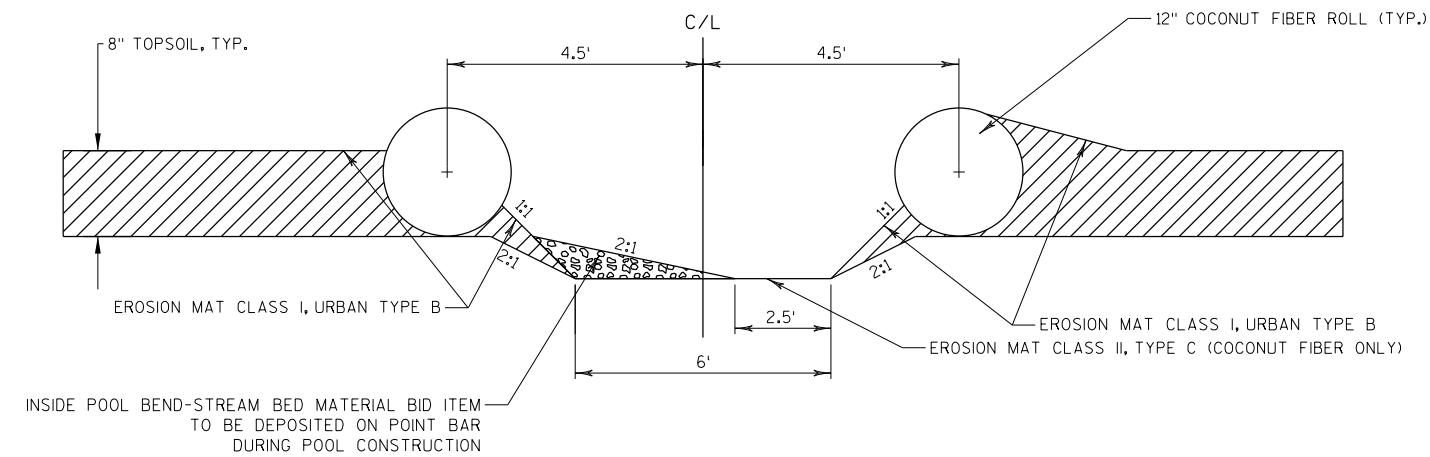
RUN: THE SHALLOW STREAM CHANNEL LOCATED BETWEEN TWO POOLS IN WHICH WATER VELOCITIES INCREASE AND DEPTH OF WATER DECREASES.

STREAM BANK: THE PORTION OF THE CHANNEL CROSS SECTION THAT RESTRICTS LATERAL MOVEMENT OF THE WATER AT NORMAL WATER LEVELS.

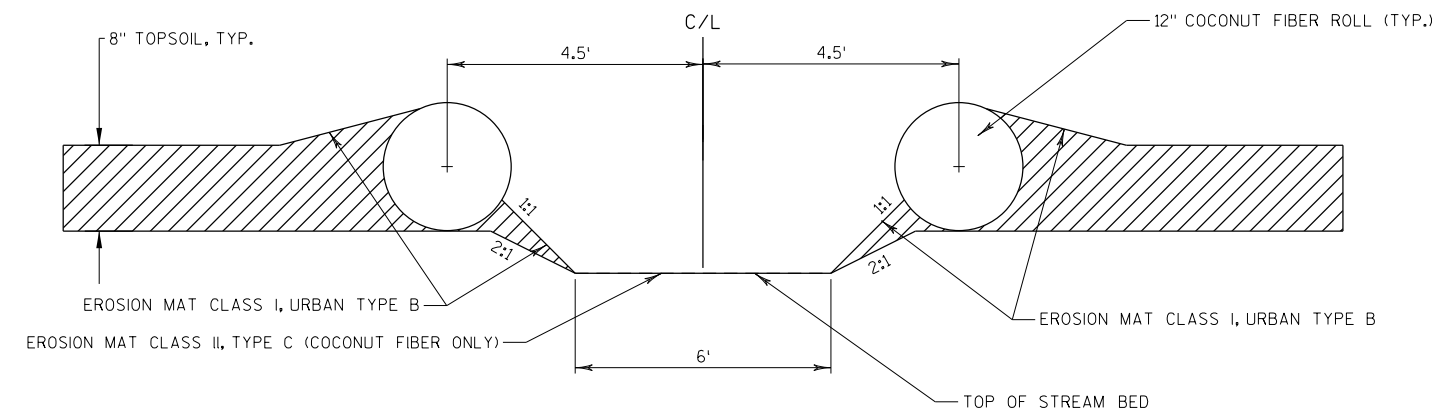
STREAM BED: THE BOTTOM OF A CHANNEL.

NOTES:

- 1) STREAM BANK PROTECTION REQUIRED IF SHOWN ON STREAM BANK DETAILS AND PLAN AND PROFILE SHEETS
- 2) TRANSITION RUN SIDE SLOPES AT 2:1 FROM POOL SIDE SLOPES

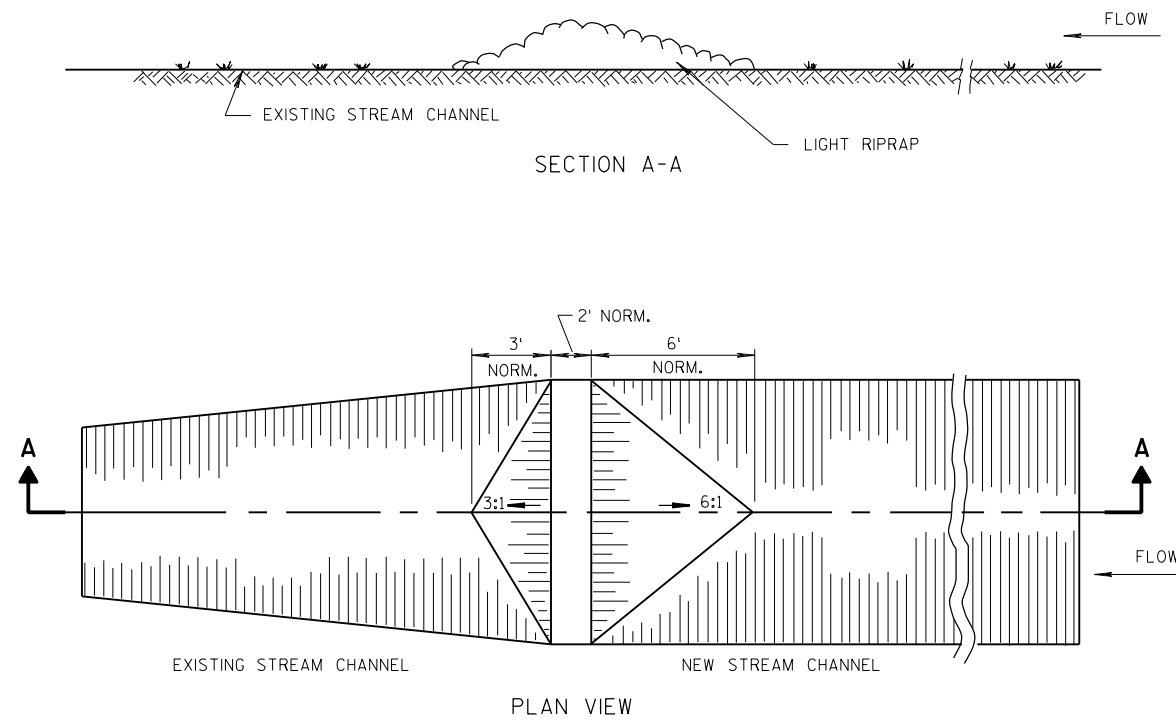


TYPICAL POOL SECTION B-B'
UNNAMED TRIBUTARY TO KILBOURN ROAD DITCH
(NOT TO SCALE)



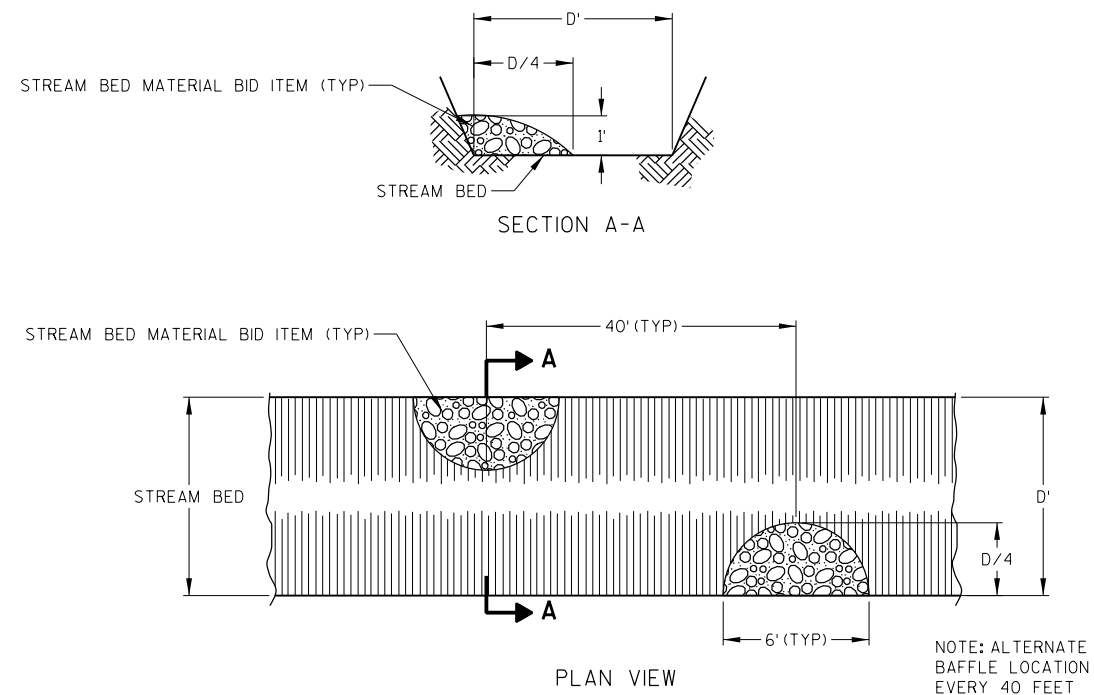
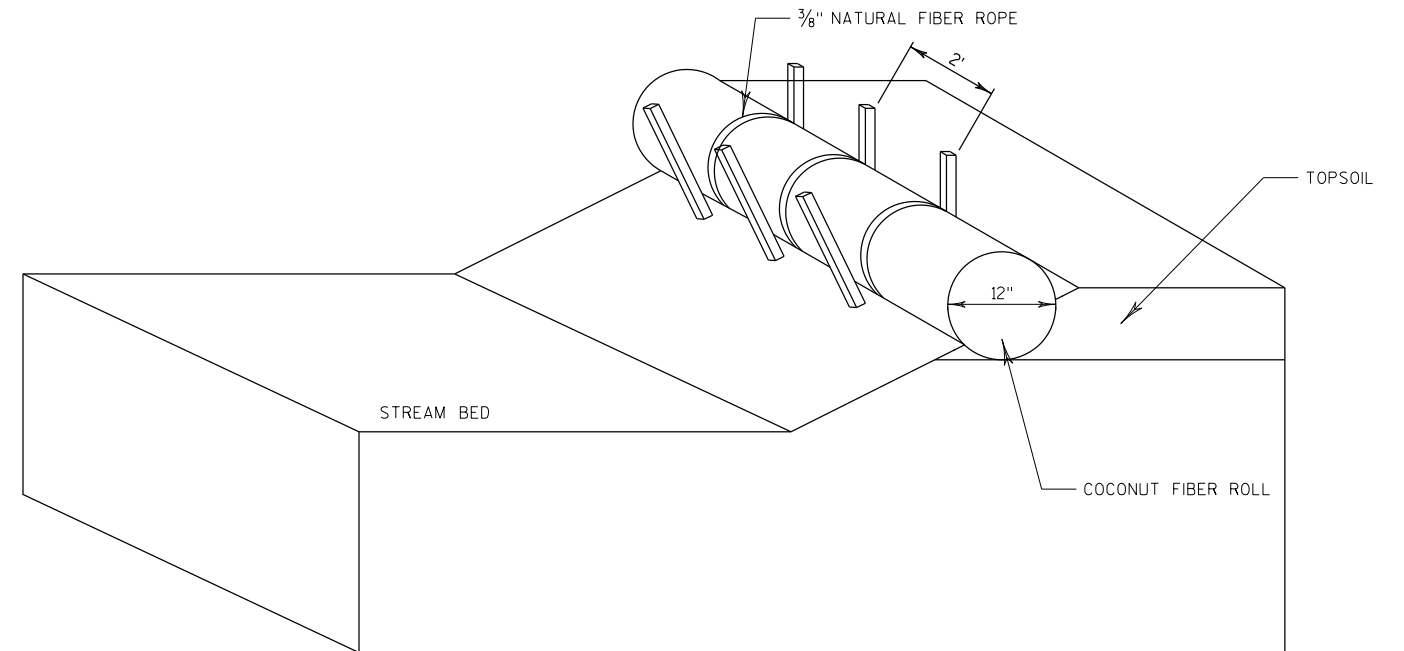
TYPICAL RIFFLE SECTION A-A'
UNNAMED TRIBUTARY TO KILBOURN ROAD DITCH
(NOT TO SCALE)

2

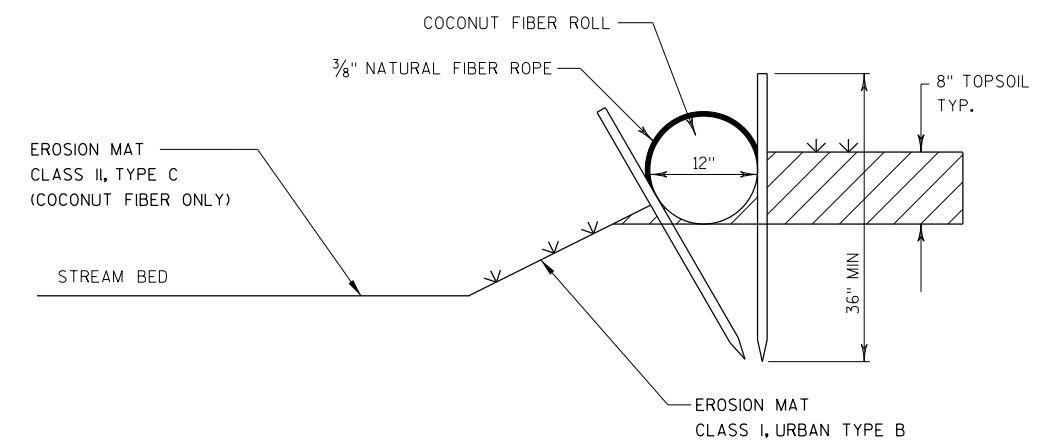


FILTER BERM DETAIL

2

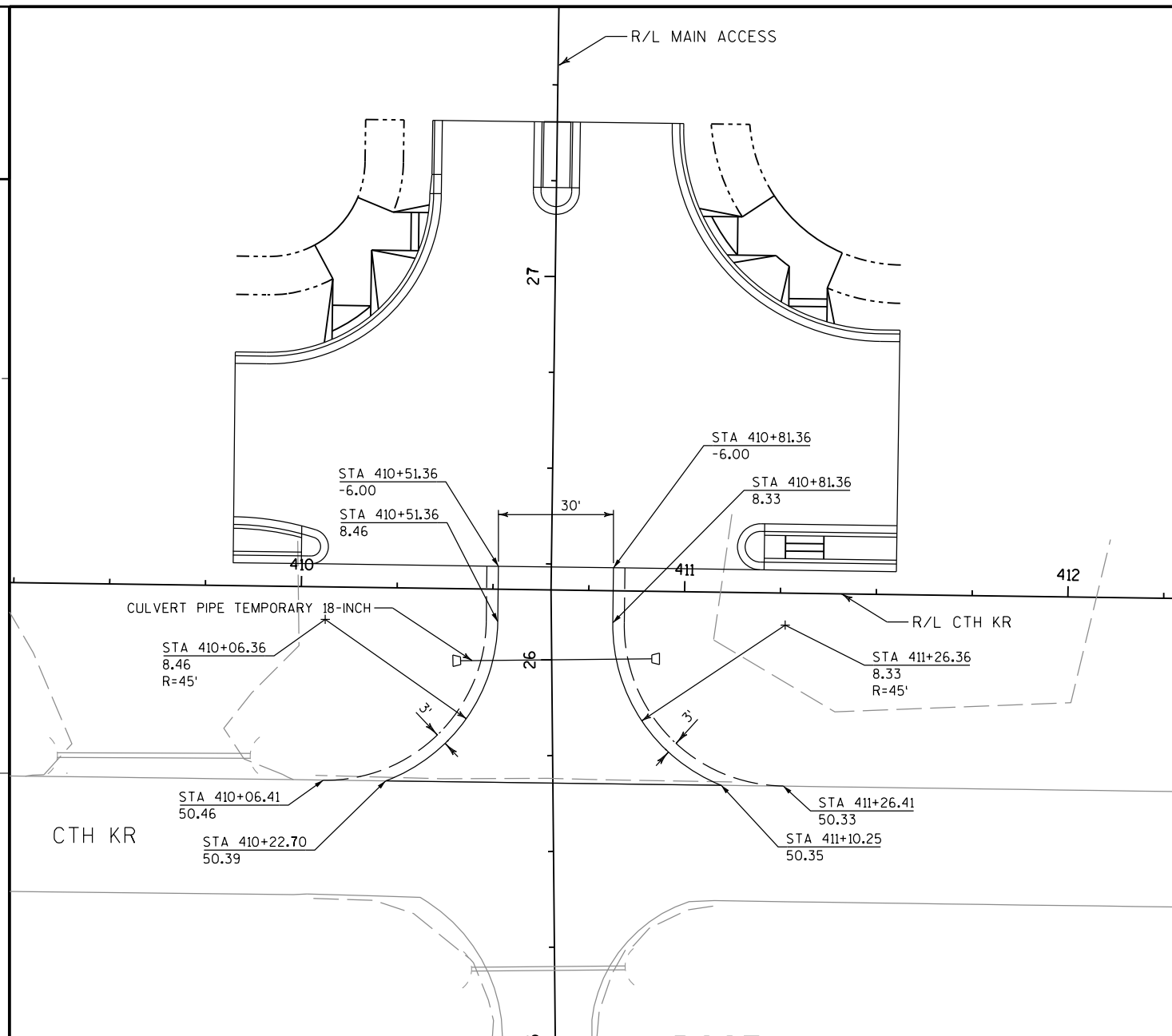


COBBLESTONE BAFFLE DETAIL

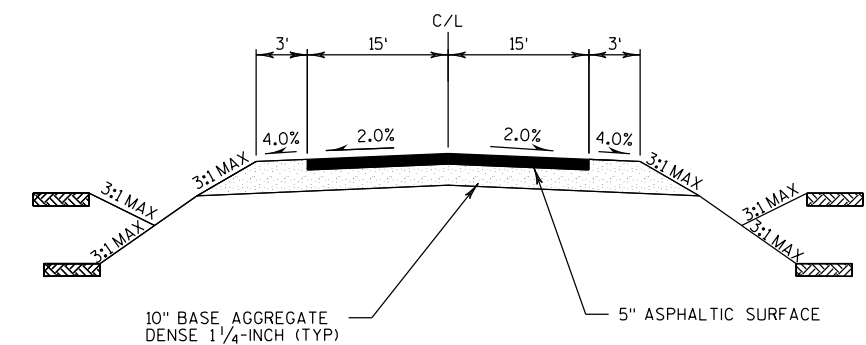
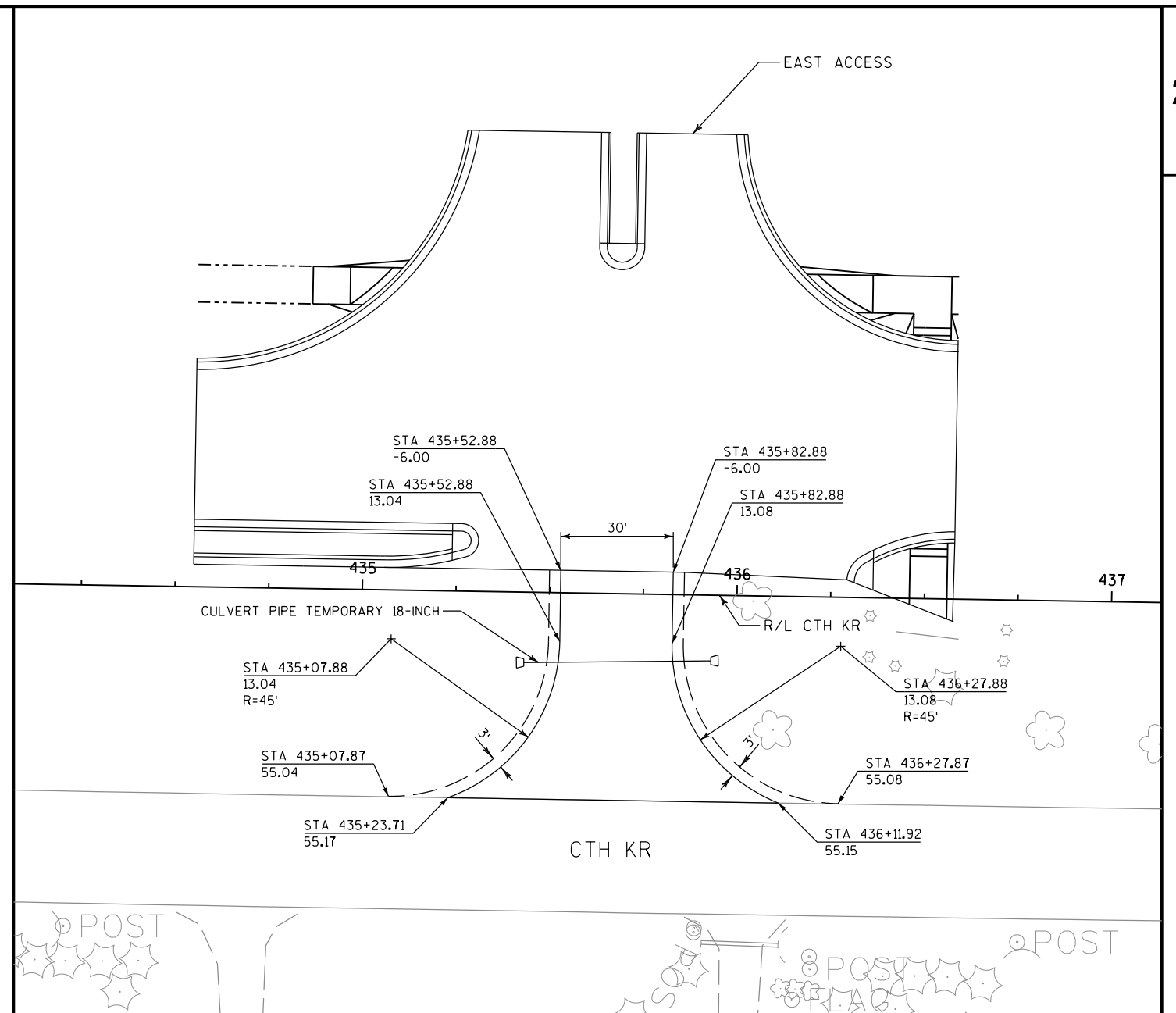


COCONUT FIBER ROLL INSTALLATION DETAIL

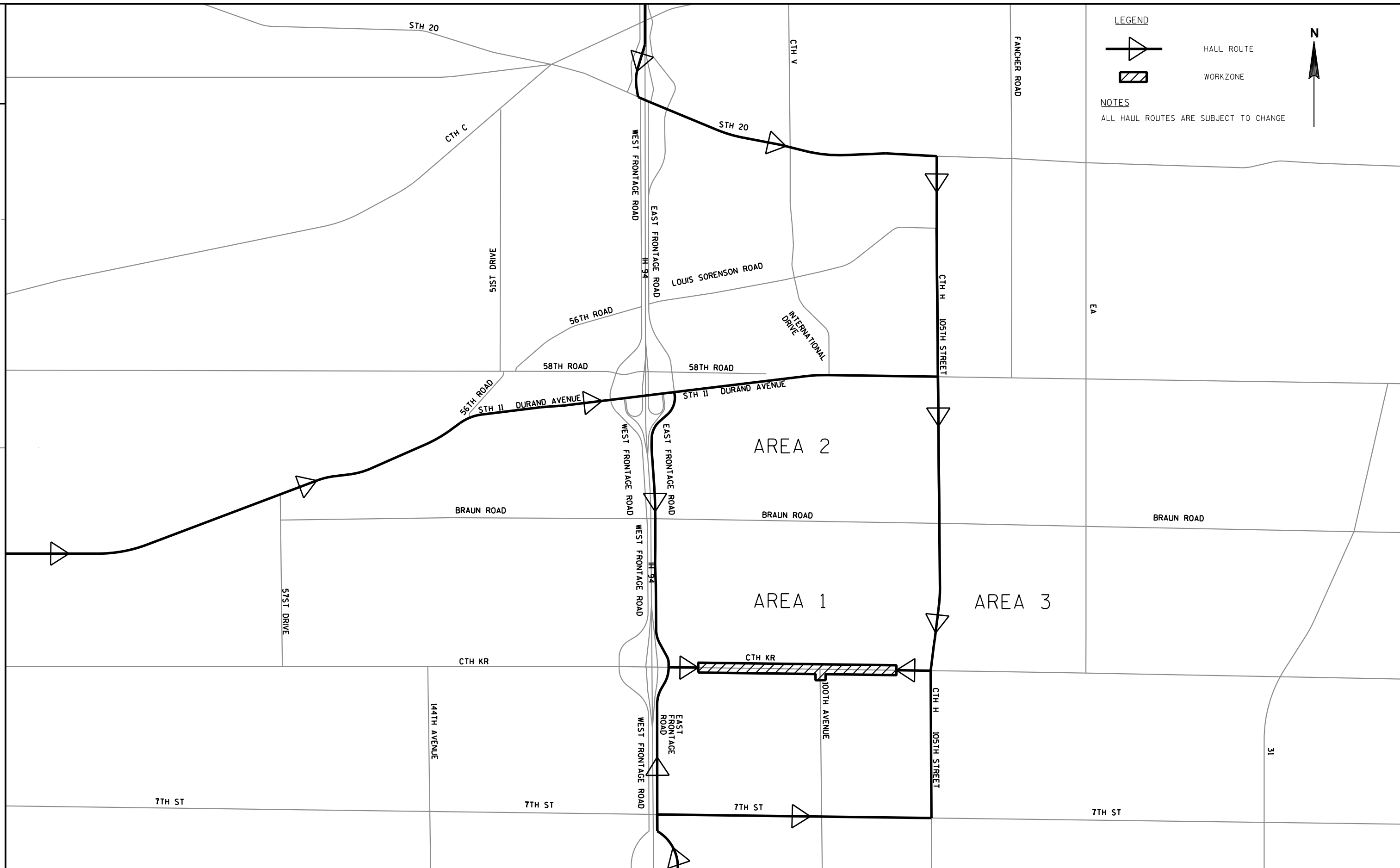
2

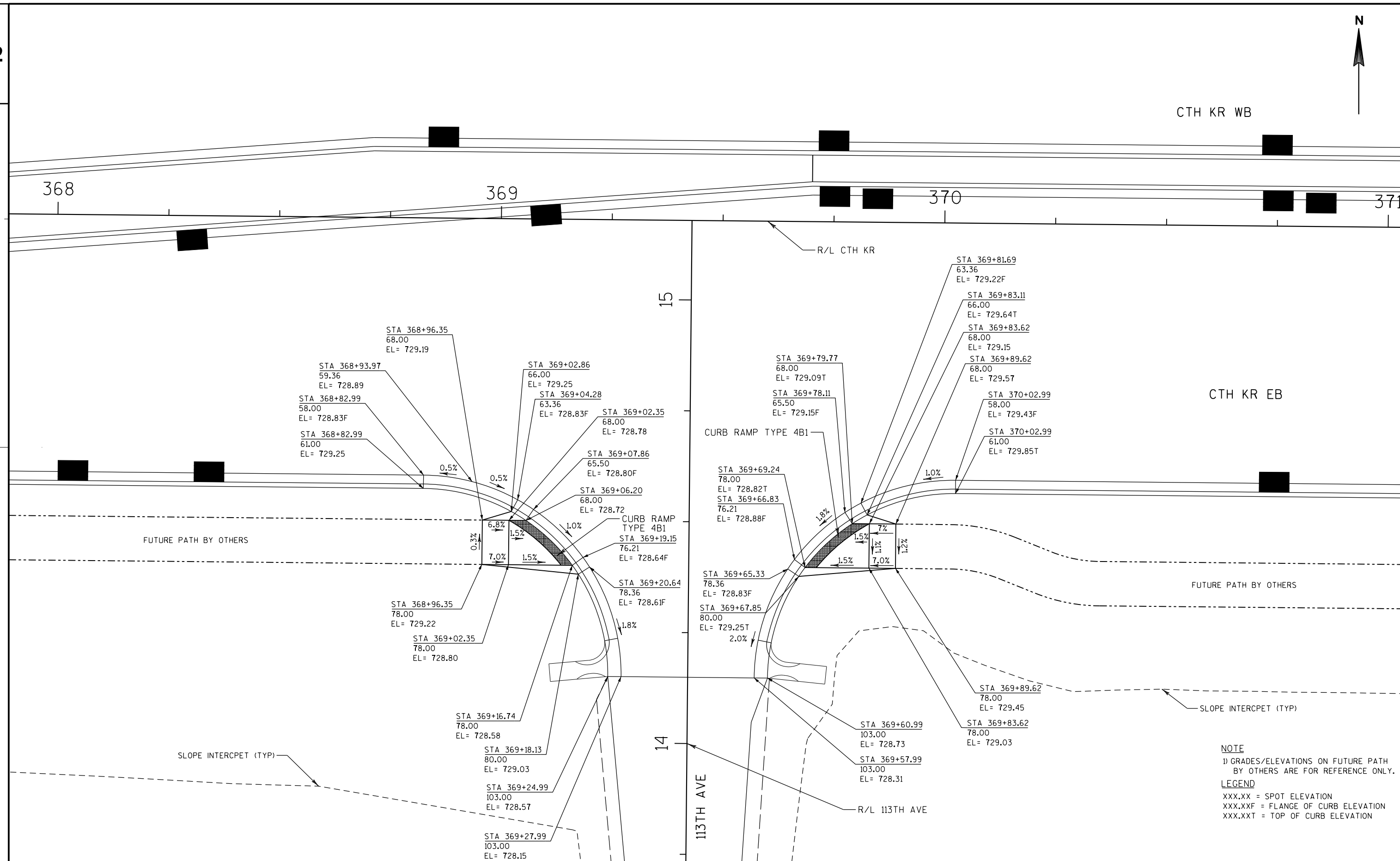


2 |



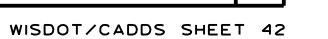
TEMPORARY ACCESS CONNECTION TYPICAL PROPOSED SECTION

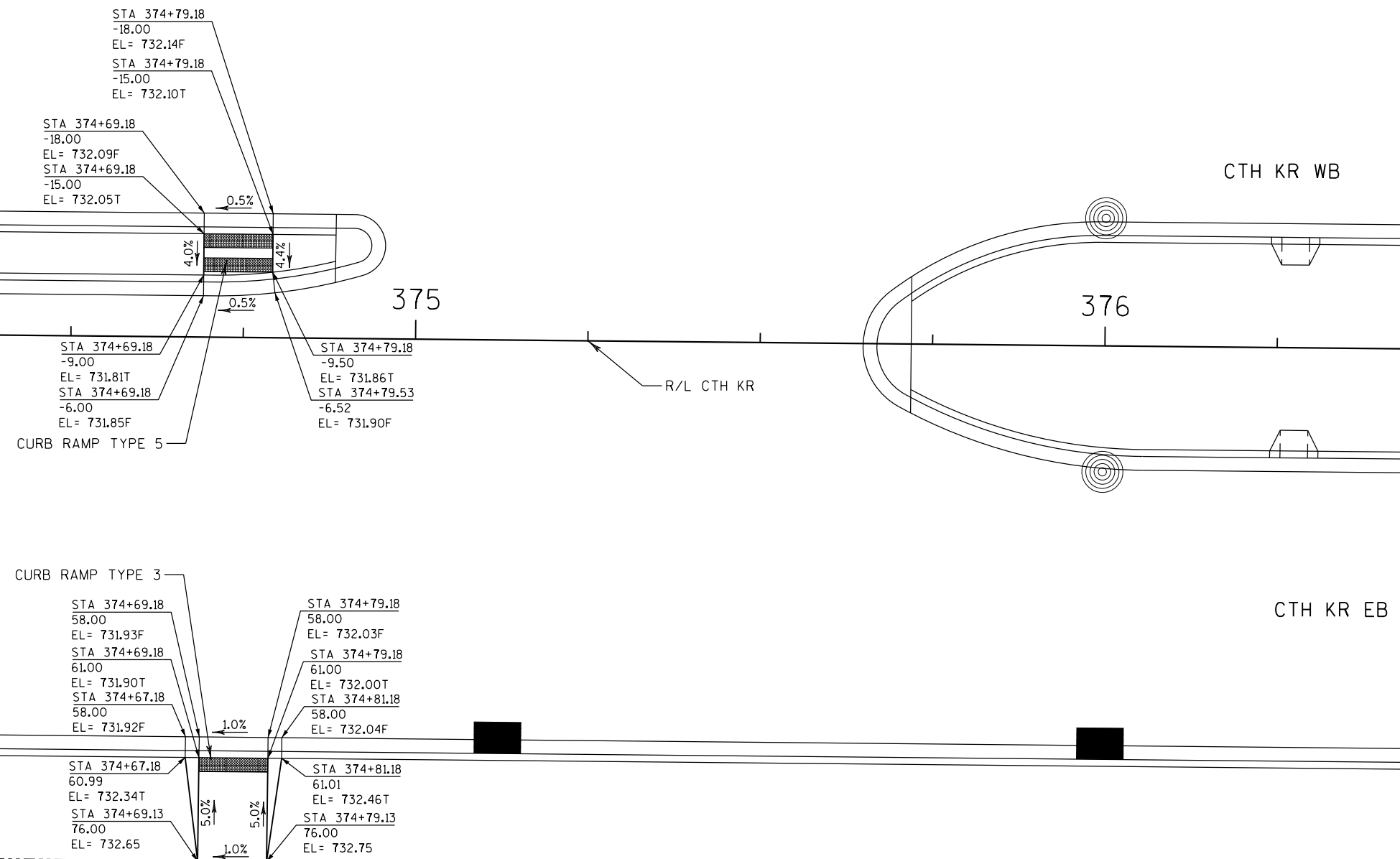




1) GRADES/ELEVATIONS ON FUTURE PATH
BY OTHERS ARE FOR REFERENCE ONLY.

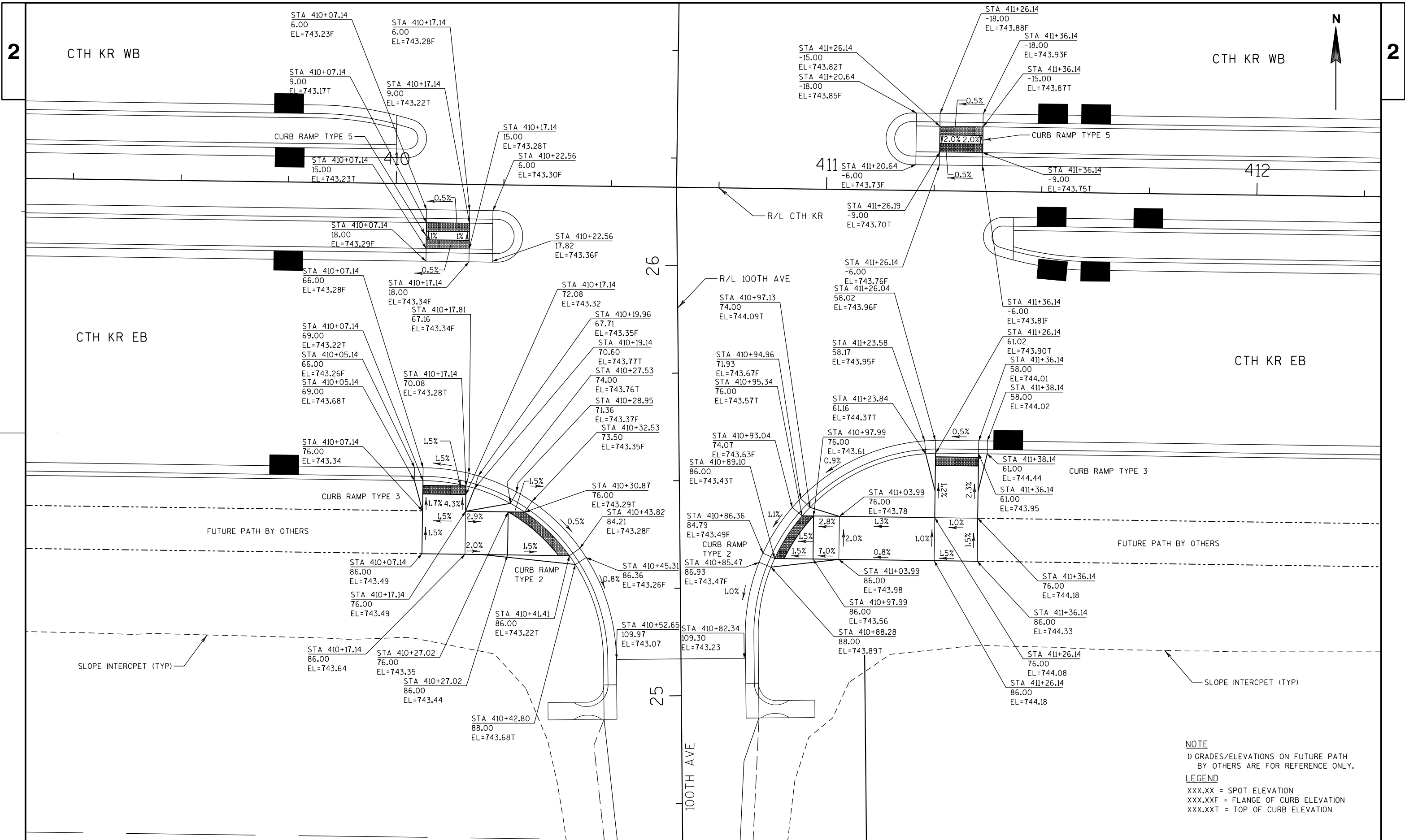
XXX.XX = SPOT ELEVATION
XXX.XXF = FLANGE OF CURB ELEVATION
XXX.XXT = TOP OF CURB ELEVATION



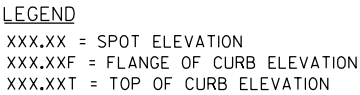


NOTE
1) GRADES/ELEVATIONS ON FUTURE PATH
BY OTHERS ARE FOR REFERENCE ONLY.
LEGEND
XXX.XX = SPOT ELEVATION
XXX.XXF = FLANGE OF CURB ELEVATION
XXX.XXT = TOP OF CURB ELEVATION



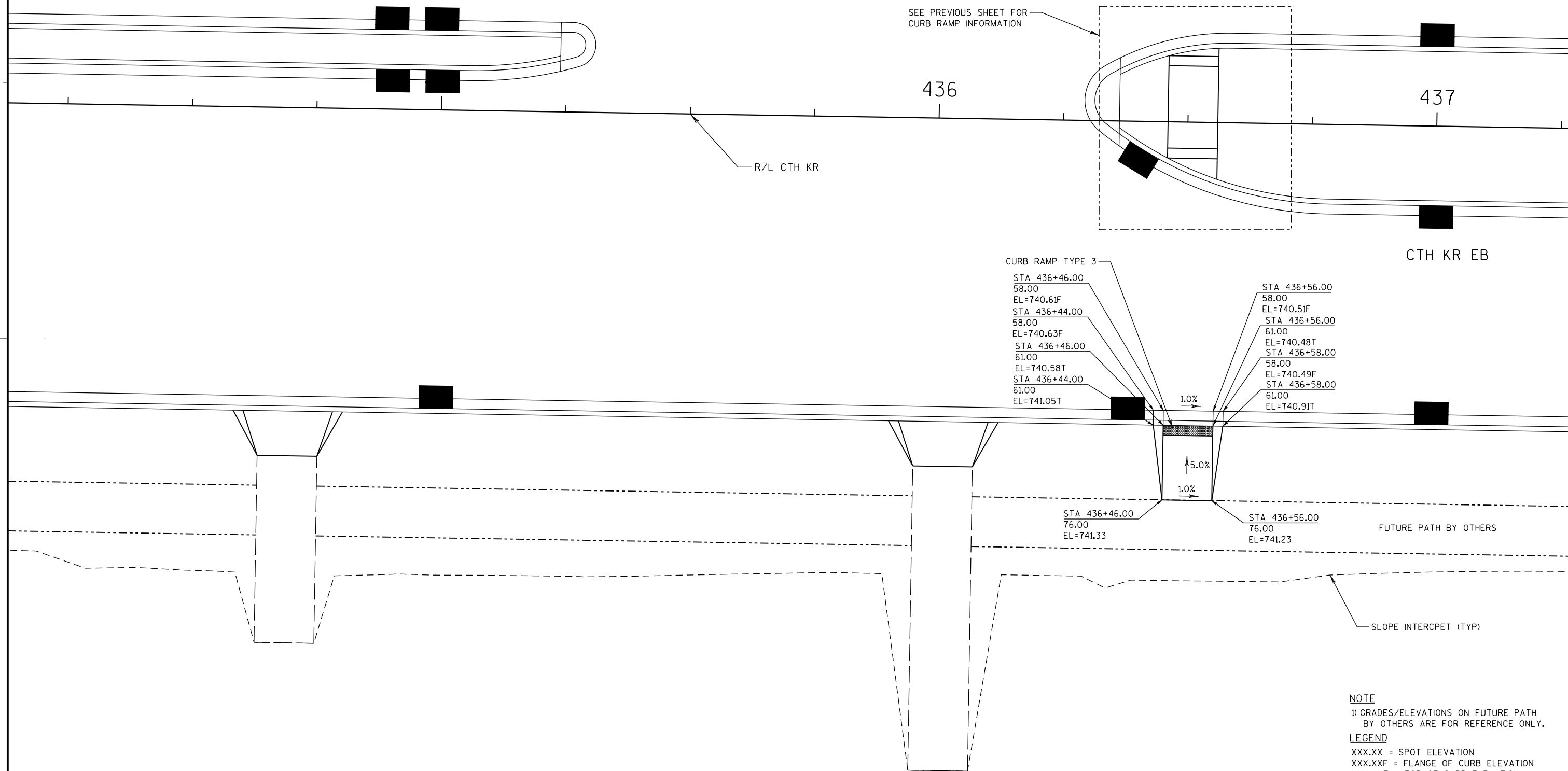


NOTE
1) GRADES/ELEVATIONS ON FUTURE PATH
BY OTHERS ARE FOR REFERENCE ONLY.
LEGEND
XXX.XX = SPOT ELEVATION
XXX.XXF = FLANGE OF CURB ELEVATION
XXX.XXT = TOP OF CURB ELEVATION



2

2



PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CONSTRUCTION DETAILS - CURB RAMPS (EAST ACCESS)

SHEET

E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\021023_CD.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

PLOT NAME :

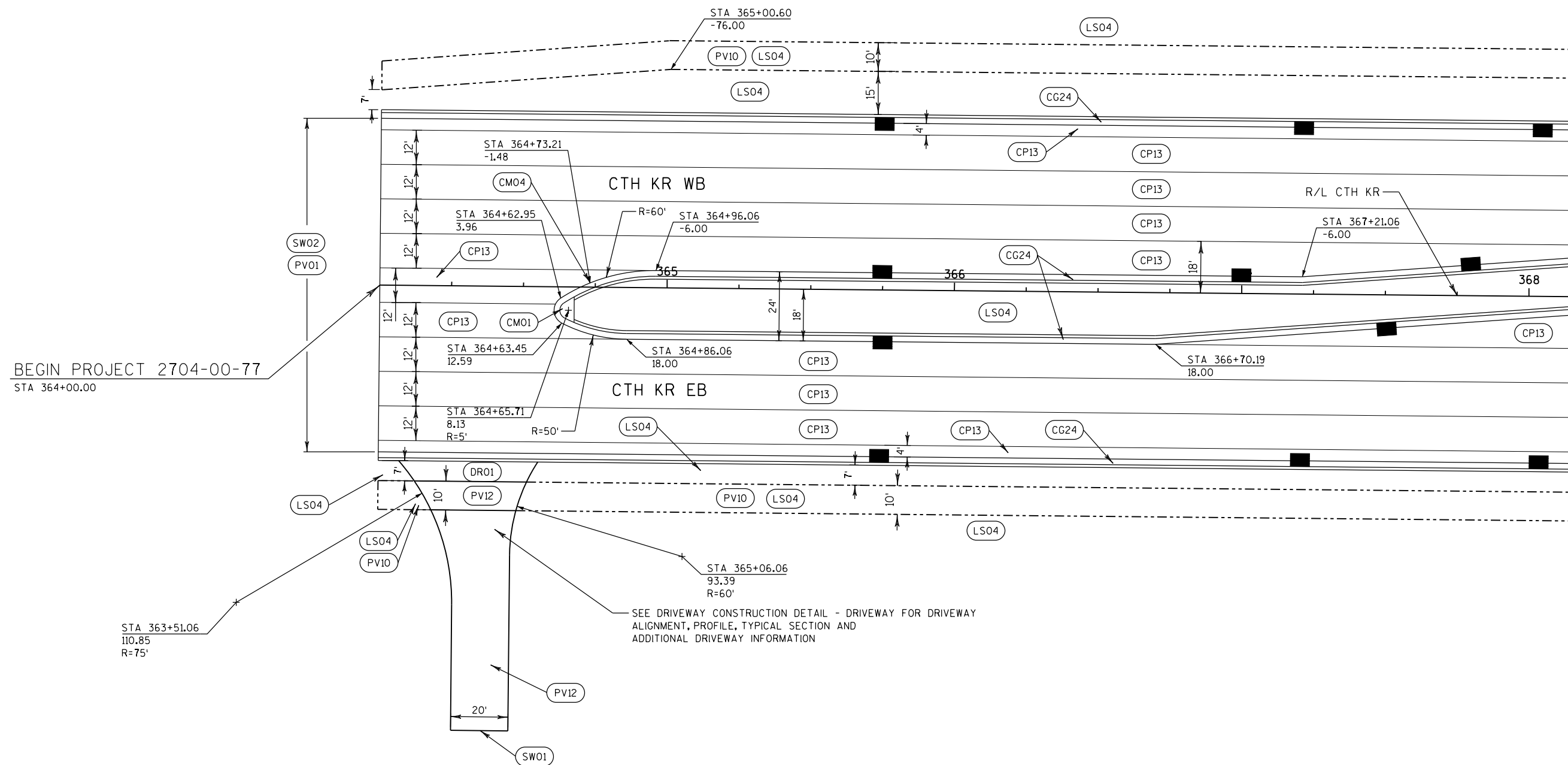
PLOT SCALE : 1:20

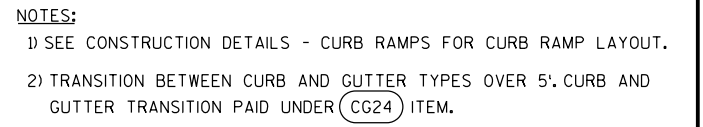
WISDOT/CADDs SHEET 42

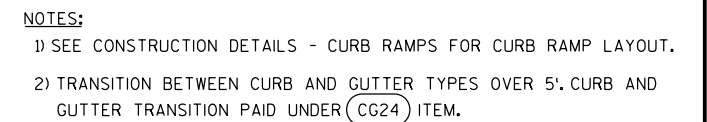
PLAN DETAIL LEGEND

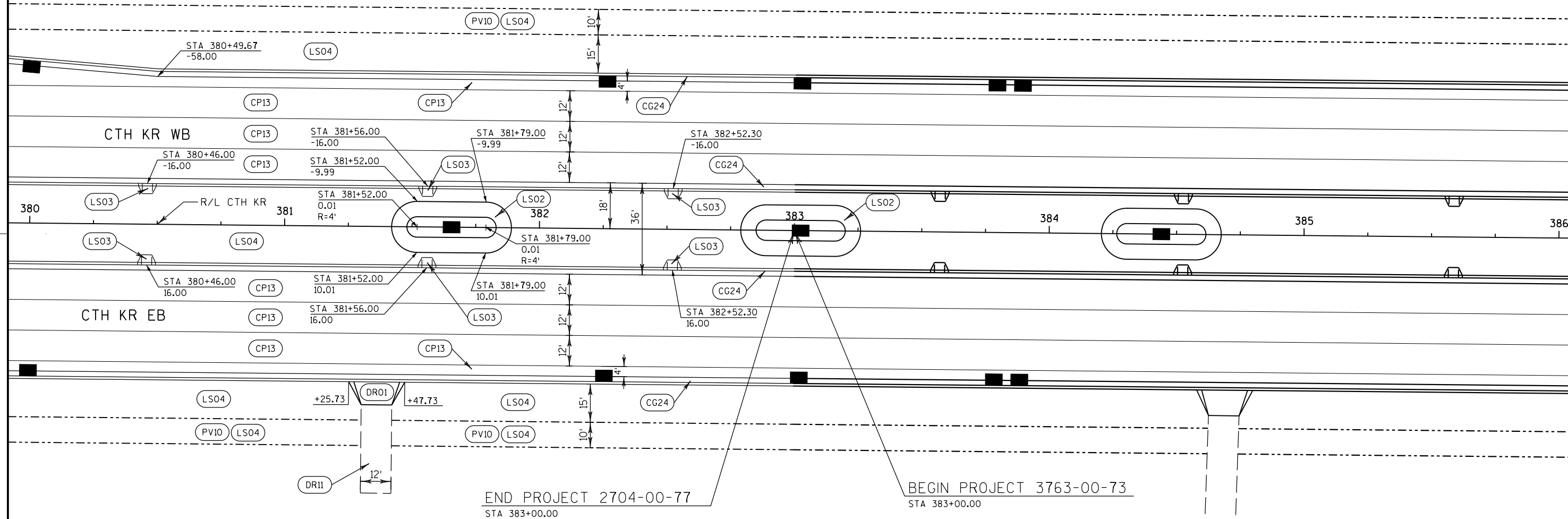
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP13 HMA PAVEMENT 5-INCH
- CG03 CURB RAMP TYPE 2
- CG04 CURB RAMP TYPE 3
- CG06 CURB RAMP TYPE 4B1
- CG07 CURB RAMP TYPE 5
- CG08 CURB RAMP TYPE 6
- CG24 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
- CG46 CONCRETE CURB & GUTTER 30-INCH TYPE A
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CM04 MAINTENANCE OPENING
- CM07 CONCRETE SIDEWALK 5-INCH
- CP13 CONCRETE PAVEMENT 10-INCH
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR11 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 1 1/4-INCH, 10-INCH
- LS02 BIOSWALE CELL
- LS03 CONCRETE SURFACE DRAIN (SEE CONSTRUCTION DETAIL)
- LS04 TOPSOIL SPECIAL, FERTILIZER, SEED & EROSION MAT
- PV01 DRILLED DOWEL BAR
- PV06 ASPHALTIC FLUME
- PV10 FUTURE PATH BY OTHERS
- PV12 ASPHALTIC SURFACE, 5-INCH
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- PROPOSED INLET LOCATION
- ⊙ PROPOSED MANHOLE LOCATION

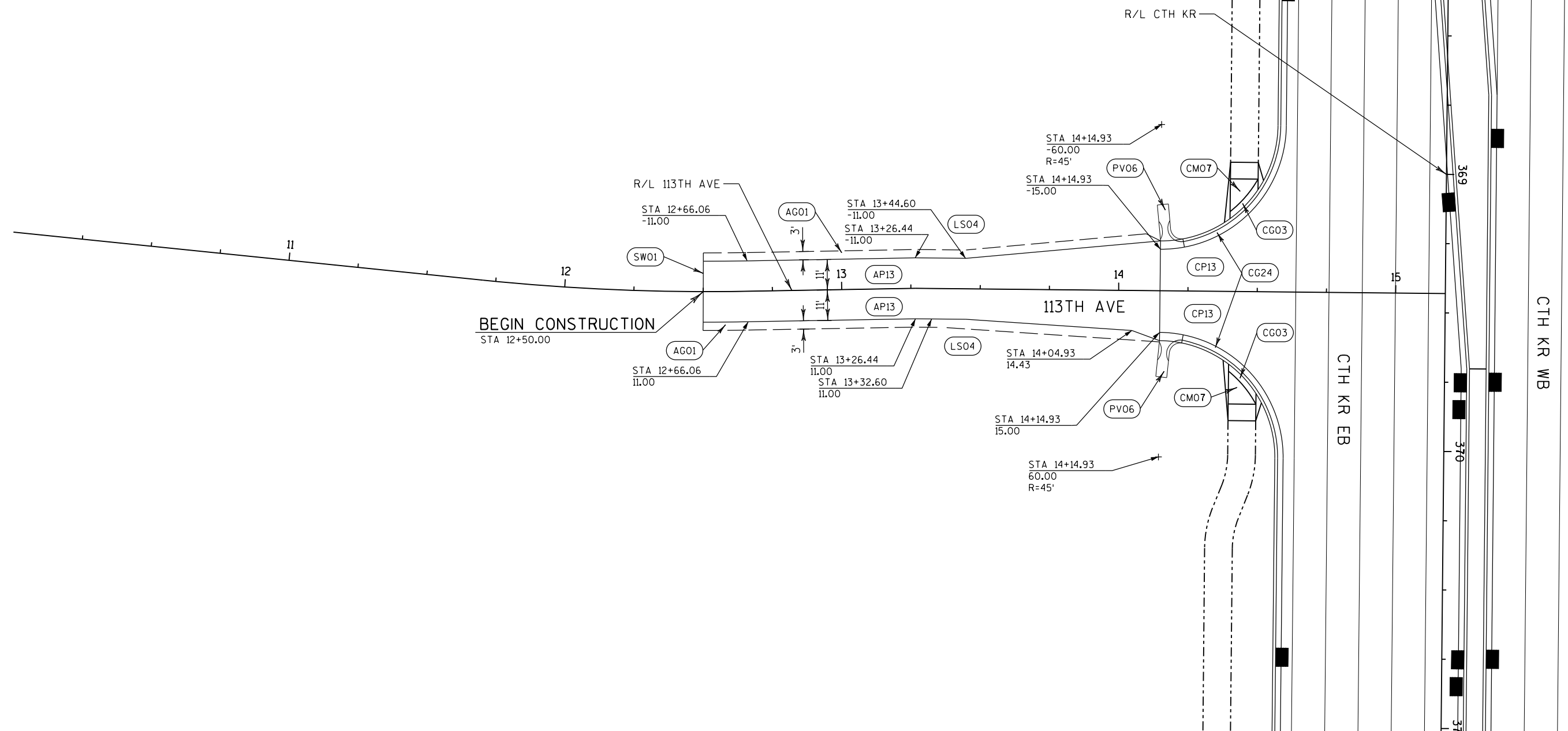
NOTE:
1) CURB RADIUS GIVEN TO CURB FLANGE, UNLESS NOTED OTHERWISE.







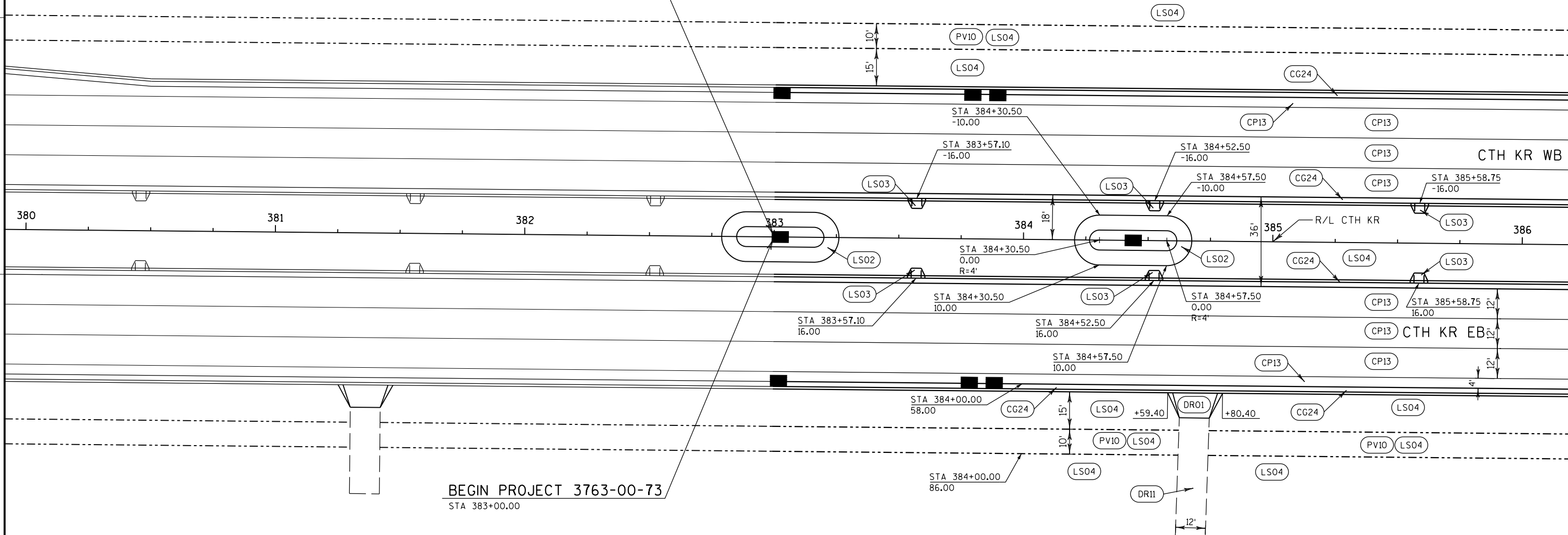


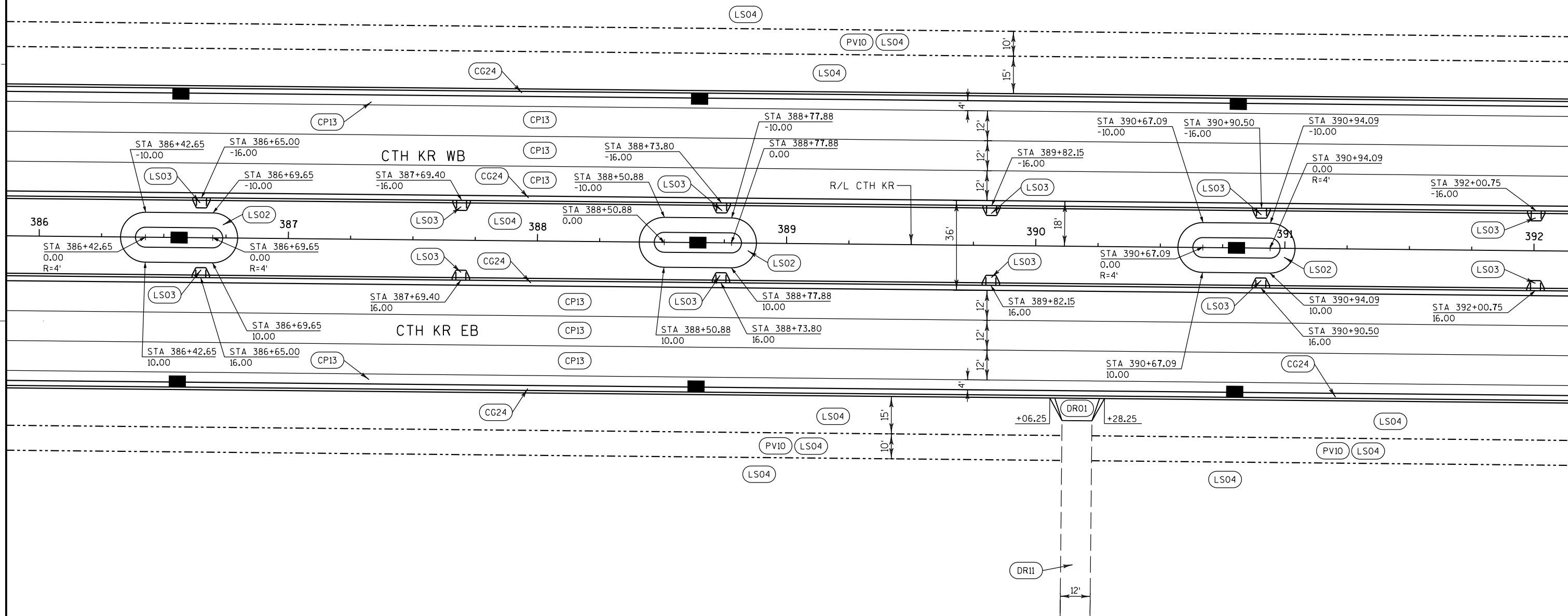


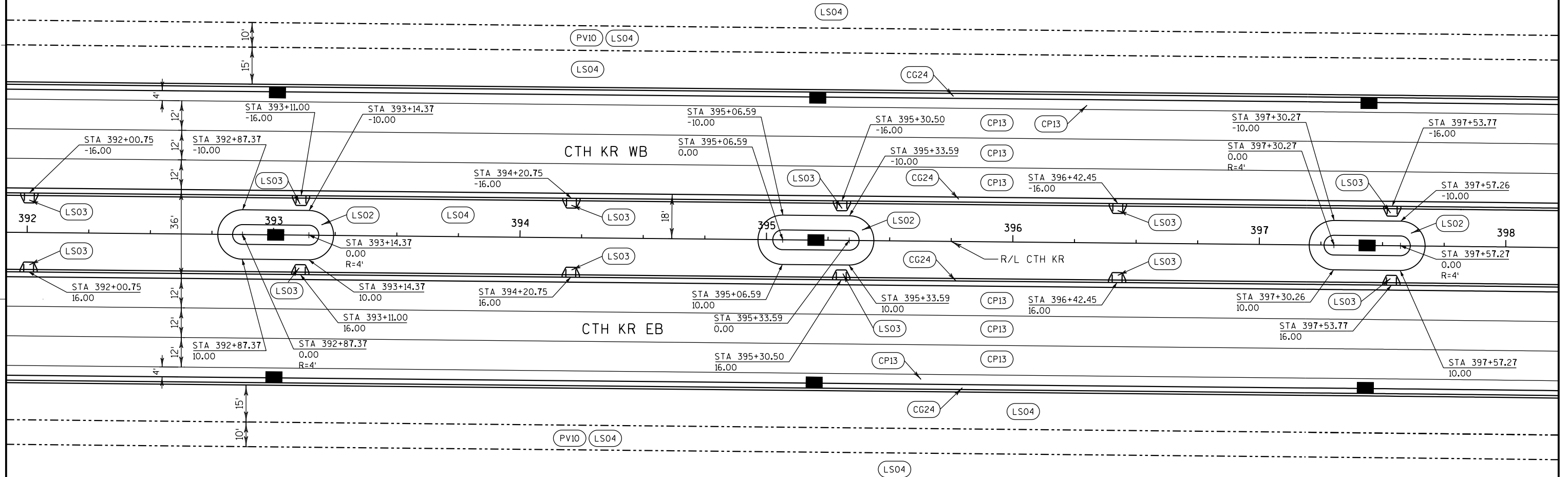


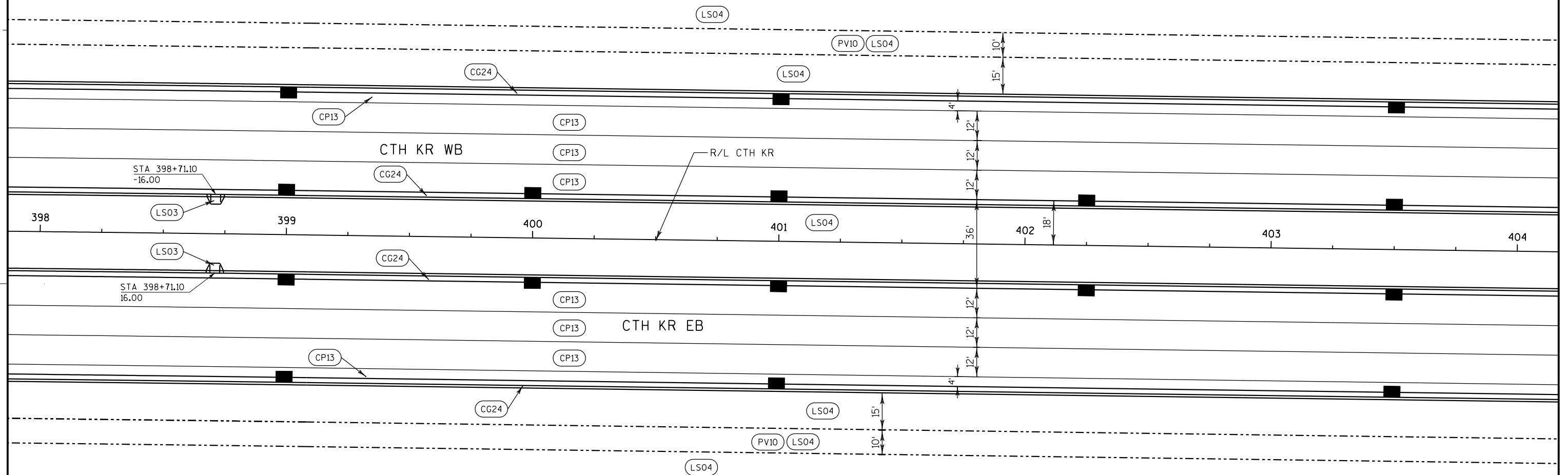
END PROJECT 2704-00-77
STA 383+00.00

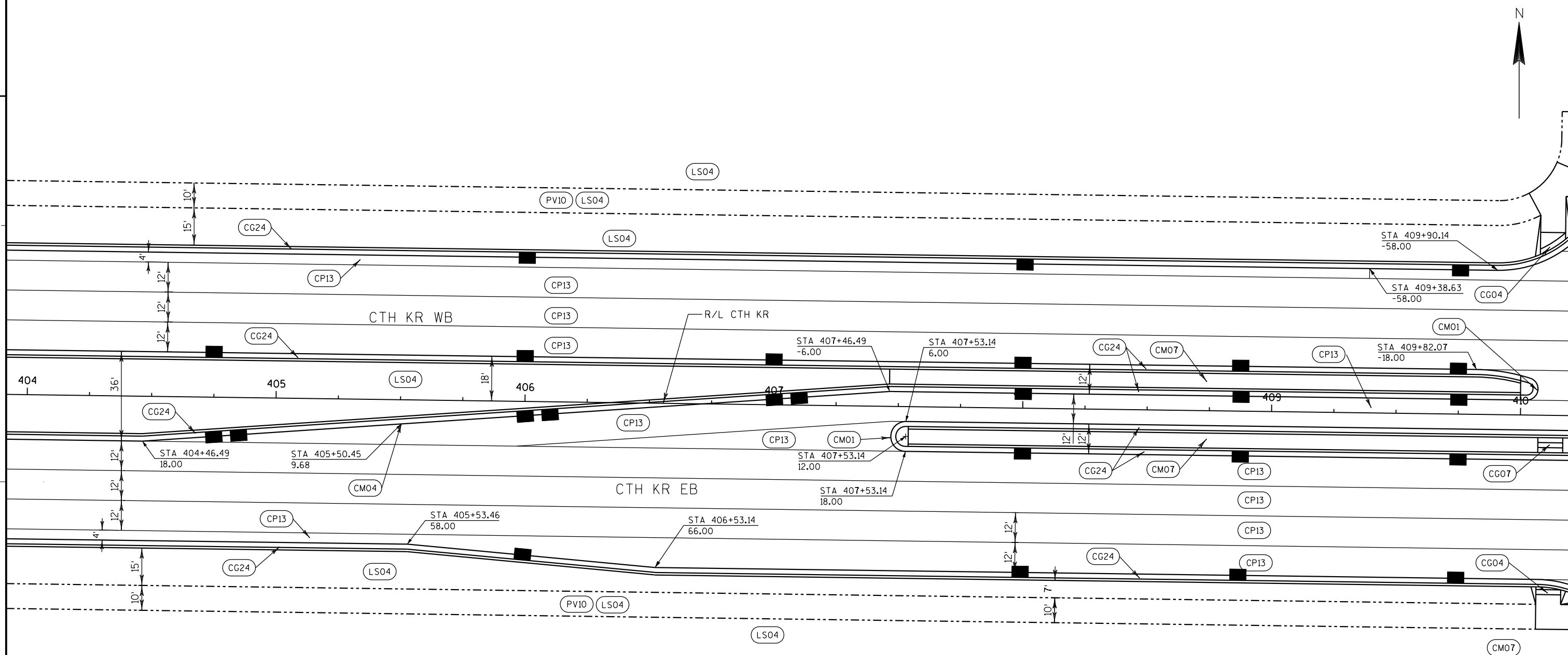
BEGIN PROJECT 3763-00-73
STA 383+00.00





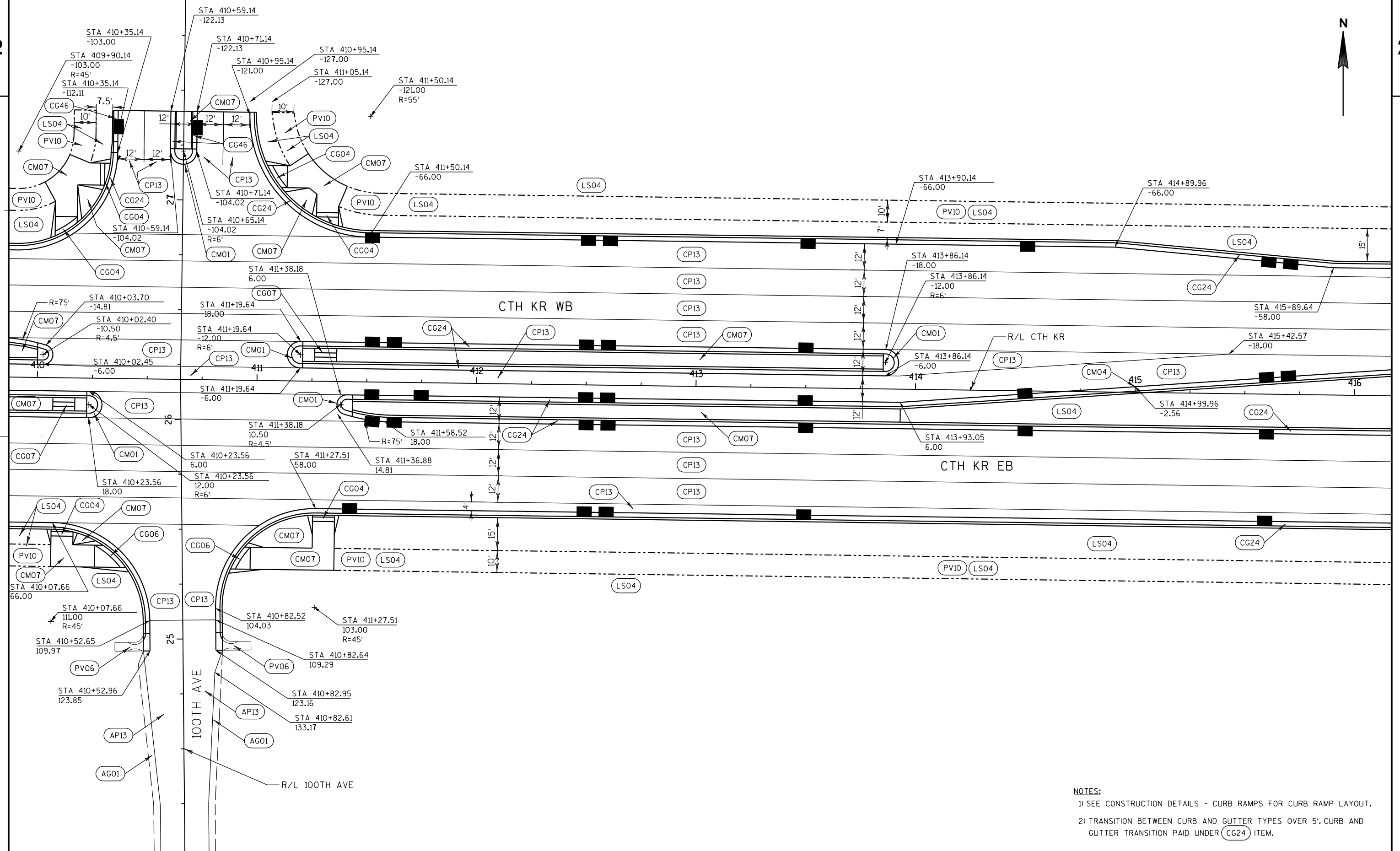


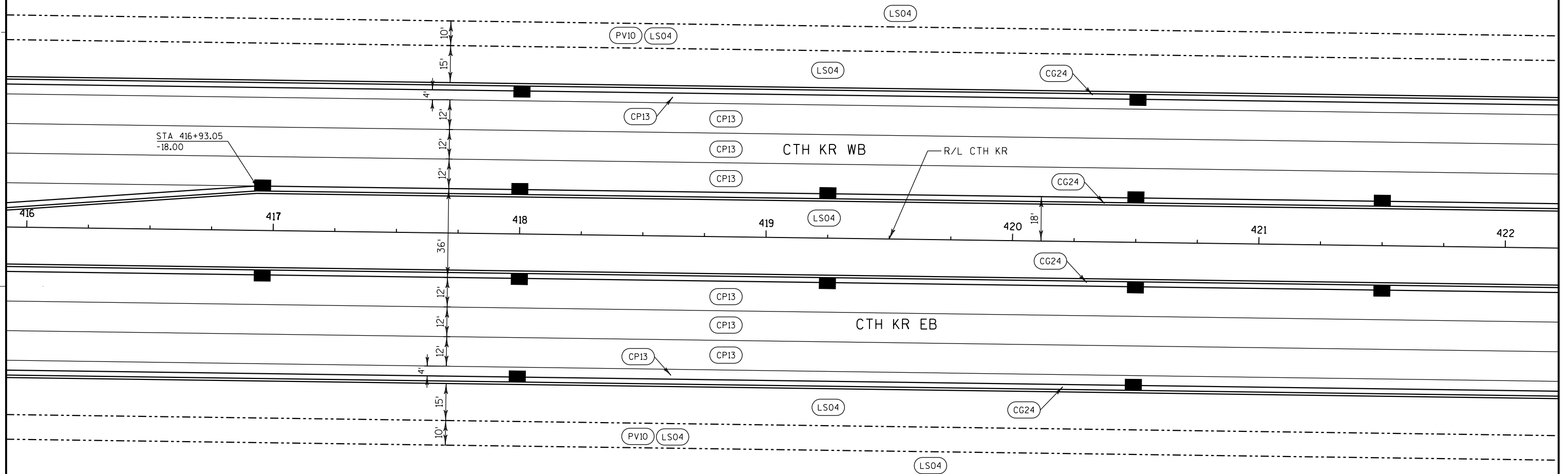




NOTES:

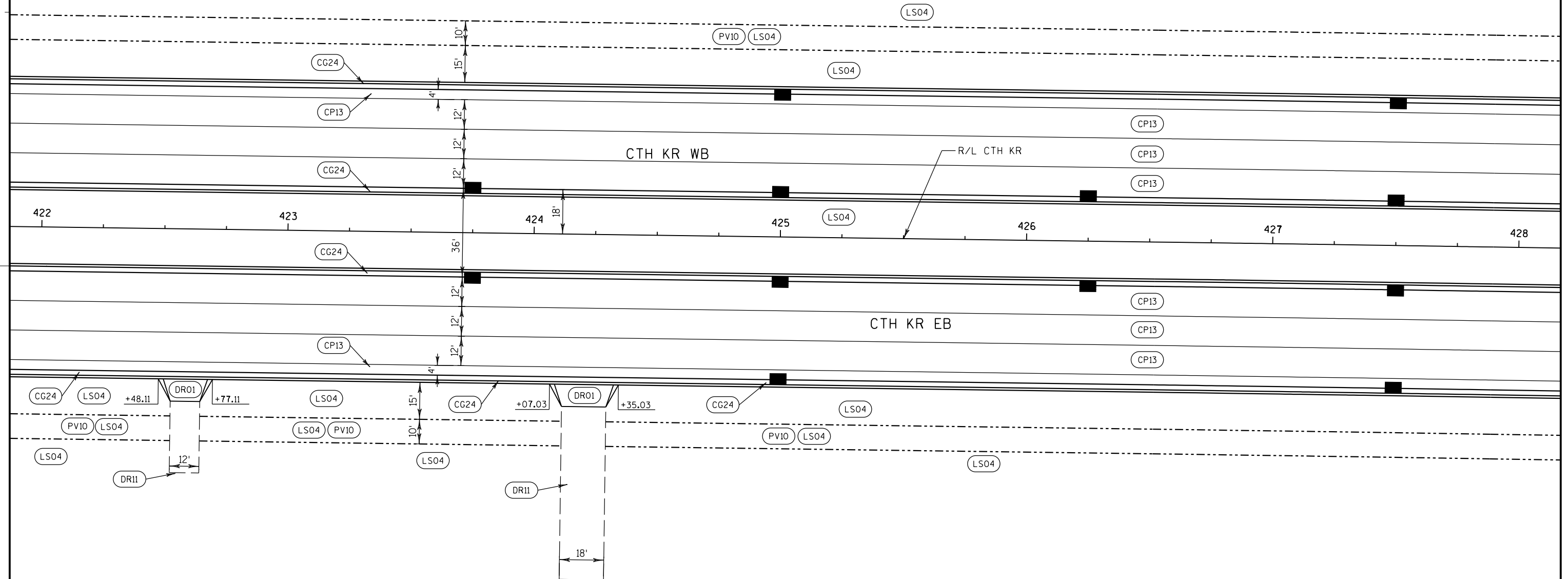
1) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR CURB RAMP LAYOUT.





2

2 |



PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

PLAN DETAILS

SHEET

3

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\CTH KR\Plansheets\37630073\021208_PD.dgn

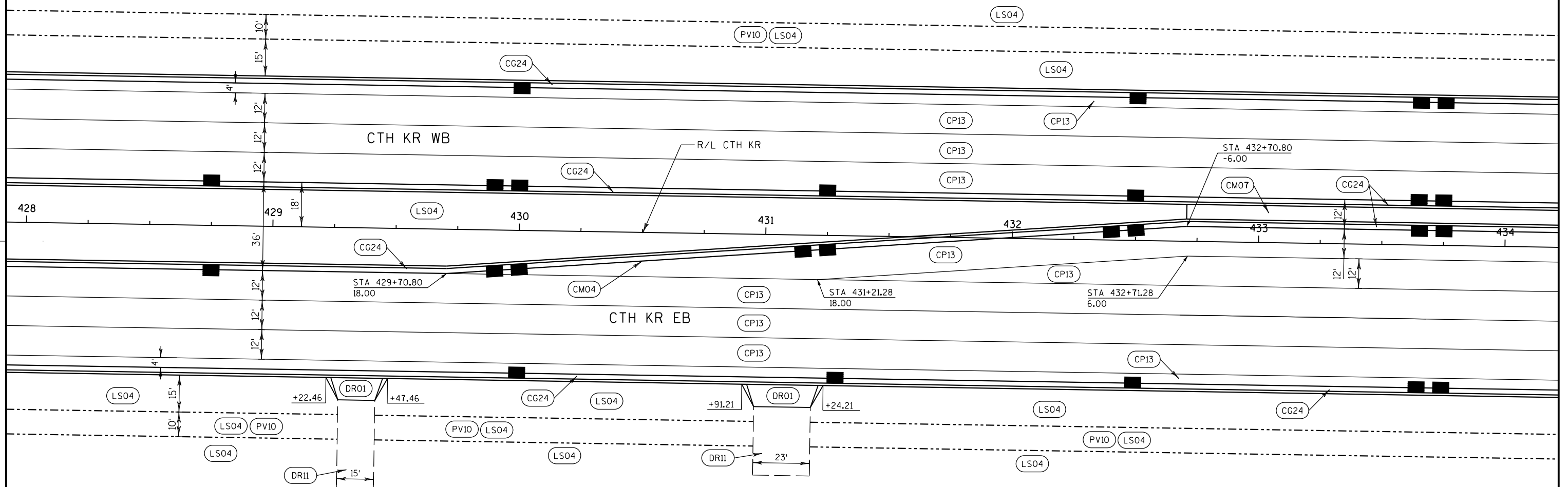
PLOT DATE : 8/1/2018

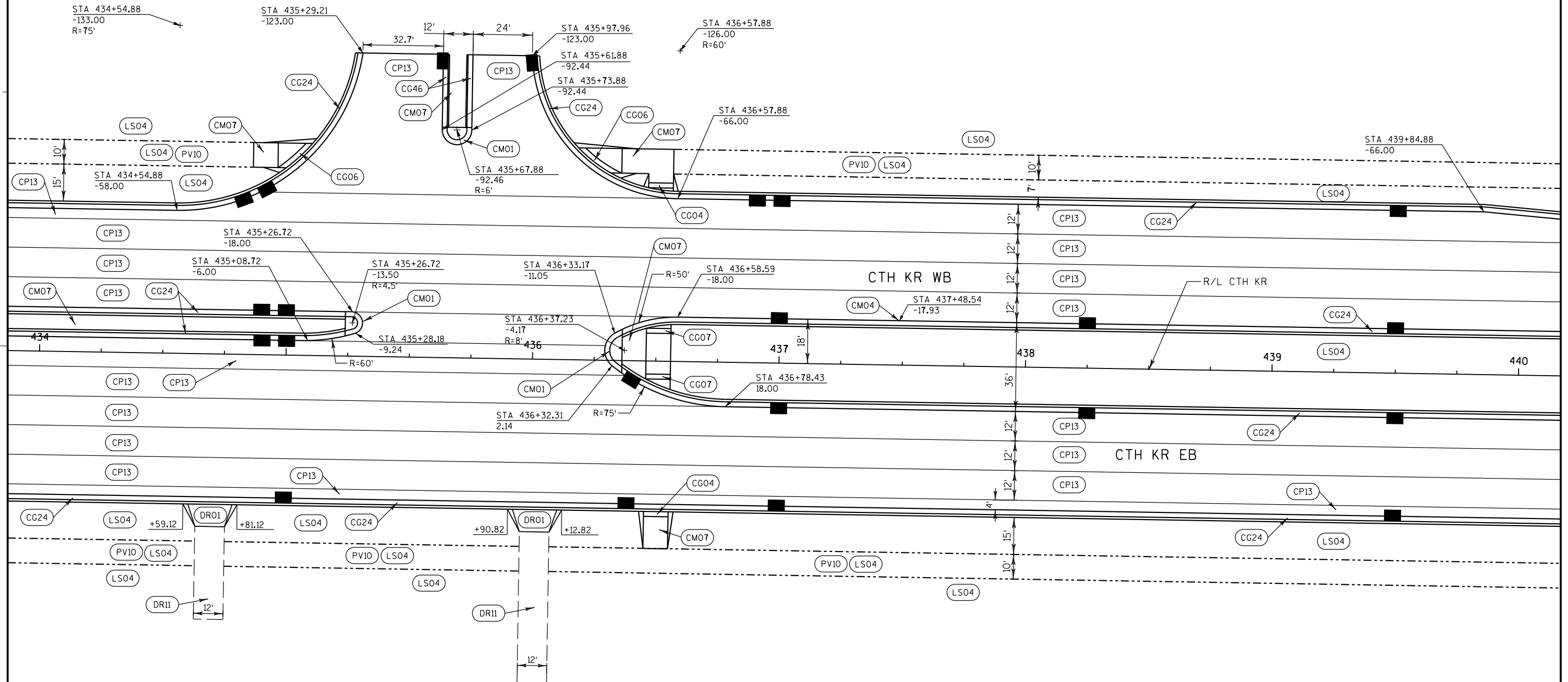
PLOT BY : wwolak

PLOT NAME :

PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



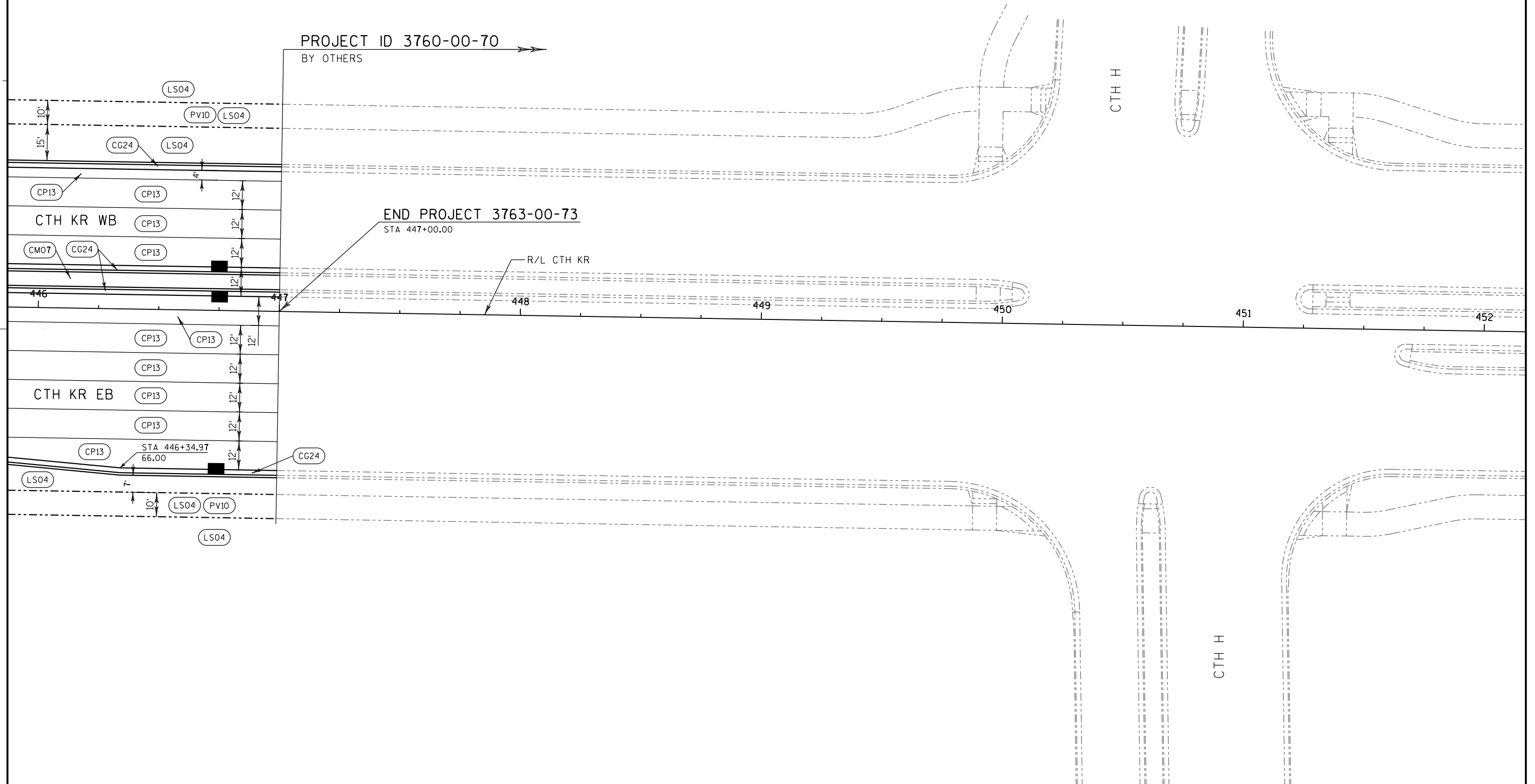


1) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR CURB RAMP LAYOUT.



2

2 |



PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

PLAN DETAILS

SHEET

5

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\CTH KR\Plansheets\37630073\021212_PD.dgn

PLOT DATE : 8/1/2018

PLOT BY : wwolak

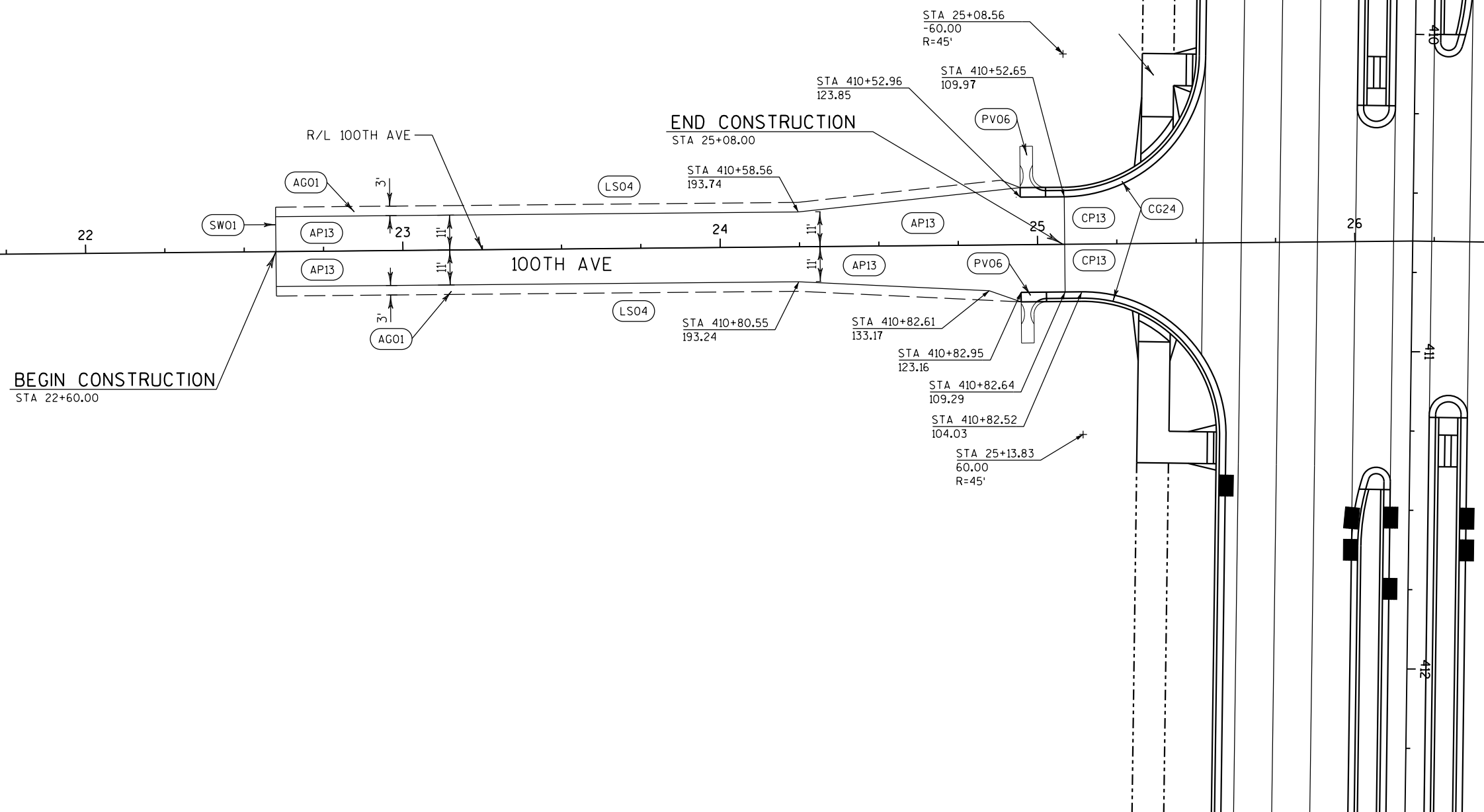
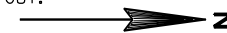
PLOT NAME :

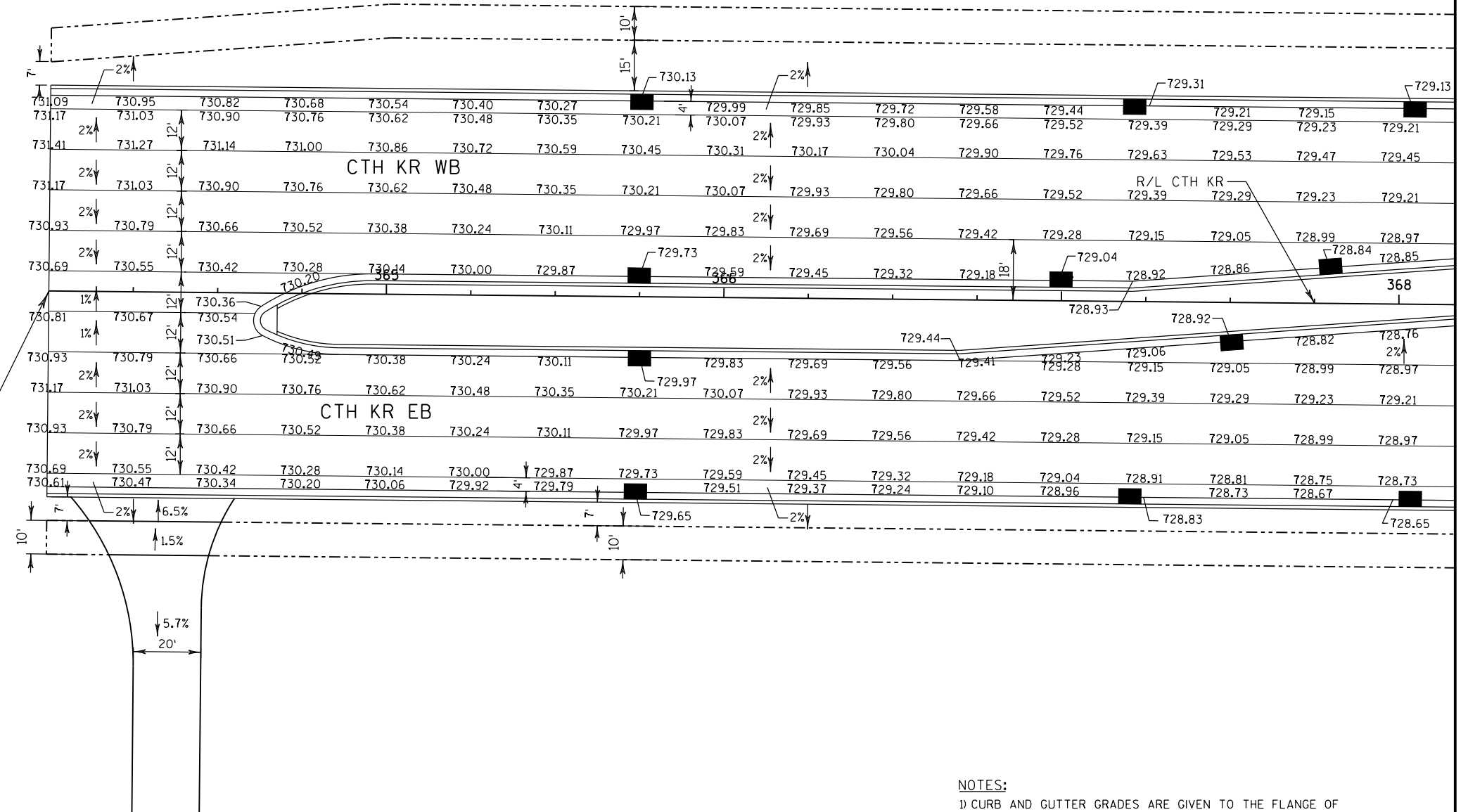
PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTES:

1) SEE CONSTRUCTION DETAILS - CURB RAMP FOR CURB RAMP LAYOUT.



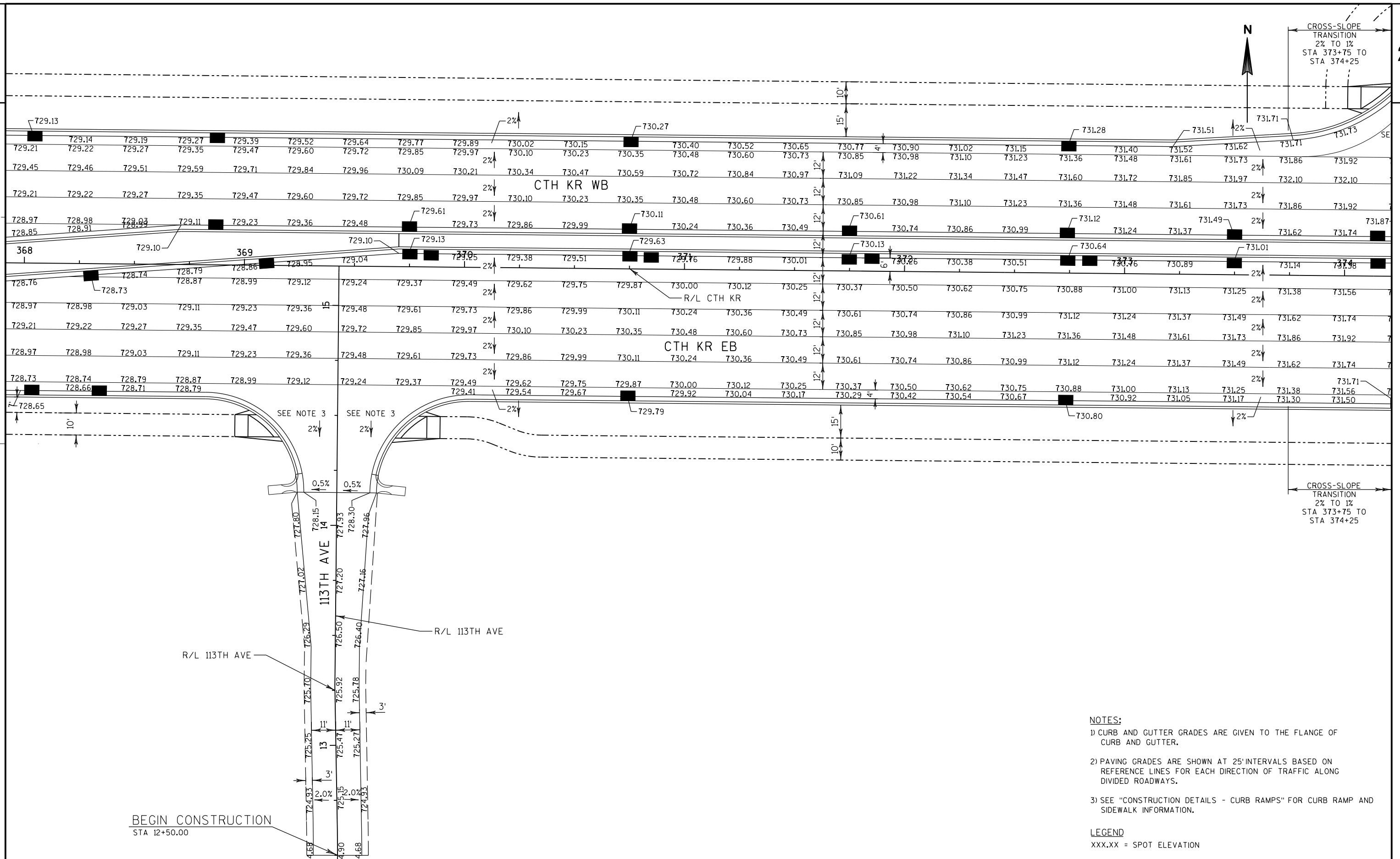


NOTES:

- 1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.
- 2) PAVING GRADES ARE SHOWN AT 25' INTERVALS BASED ON REFERENCE LINES FOR EACH DIRECTION OF TRAFFIC ALONG DIVIDED ROADWAYS.
- 3) SEE "CONSTRUCTION DETAILS - CURB RAMPS" FOR CURB RAMP AND SIDEWALK INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION



PROJECT NO: 2704-00-77

HWY: CTH KR

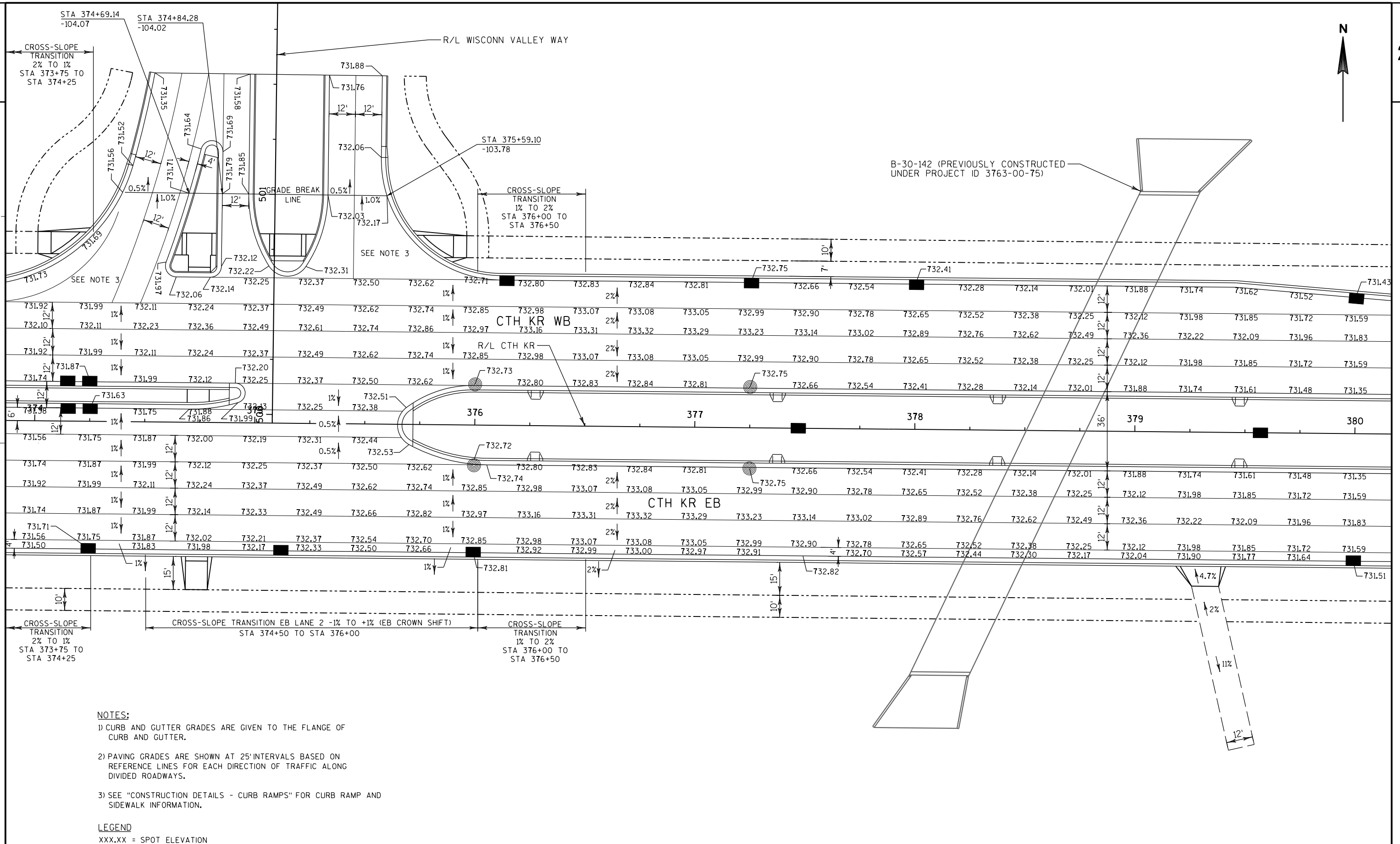
COUNTY: RACINE

PAVING GRADES

SHEET

E

2



2

PROJECT NO: 2704-00-77

HWY: CTH KR

COUNTY: RACINE

PAVING GRADES

SHEET

E

FILE NAME : S:\DOT\DOT_SE\180045-Foxconn-Local_Roads\Design\DGN Files\CTH KR\Plansheets\27040077\021223_PG.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

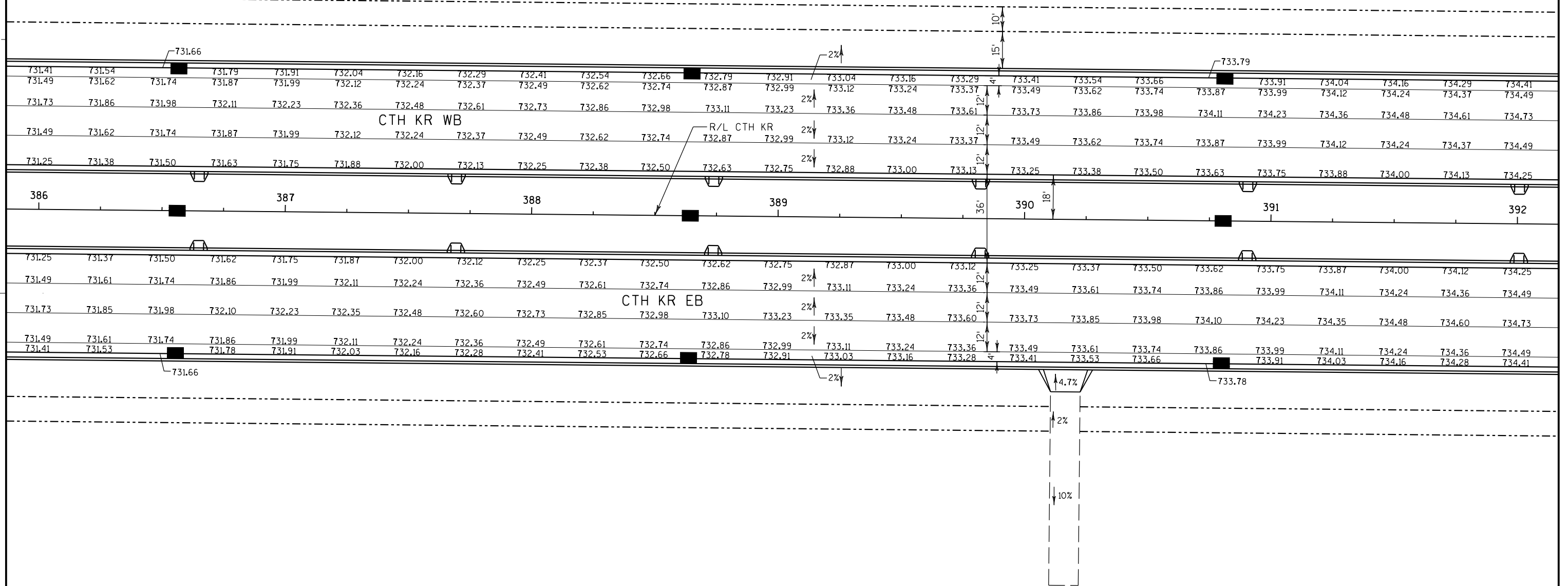
PLOT NAME :

PLOT SCALE : 1:40

WISDOT/CADDs SHEET 42



XXX.XX = SPOT ELEVATION



NOTES:

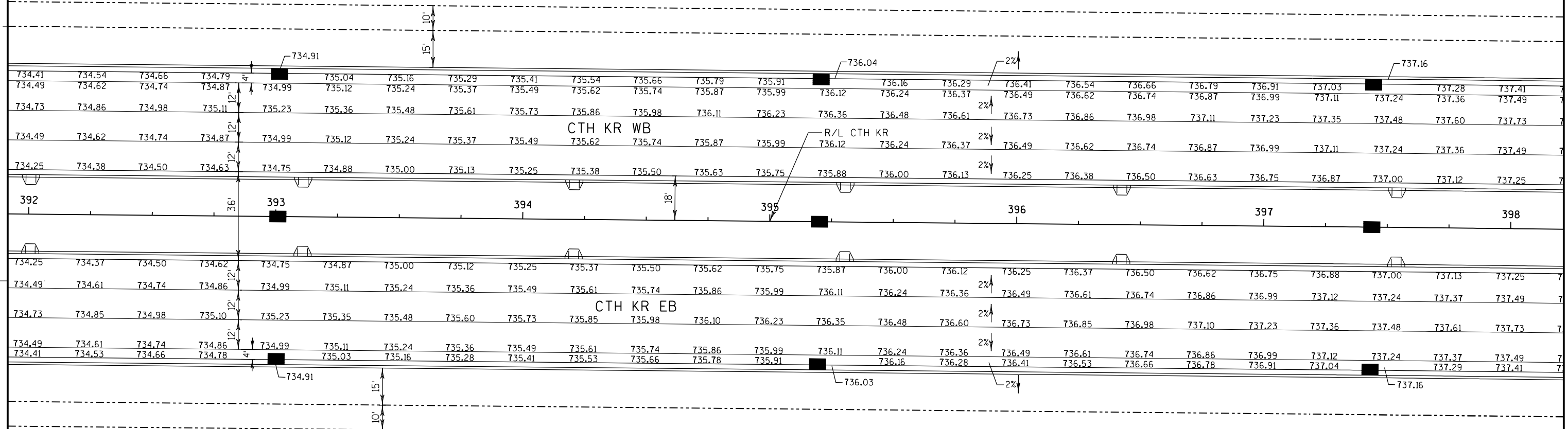
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS BASED ON REFERENCE LINES FOR EACH DIRECTION OF TRAFFIC ALONG DIVIDED ROADWAYS.

3) SEE "CONSTRUCTION DETAILS - CURB RAMPS" FOR CURB RAMP AND SIDEWALK INFORMATION.

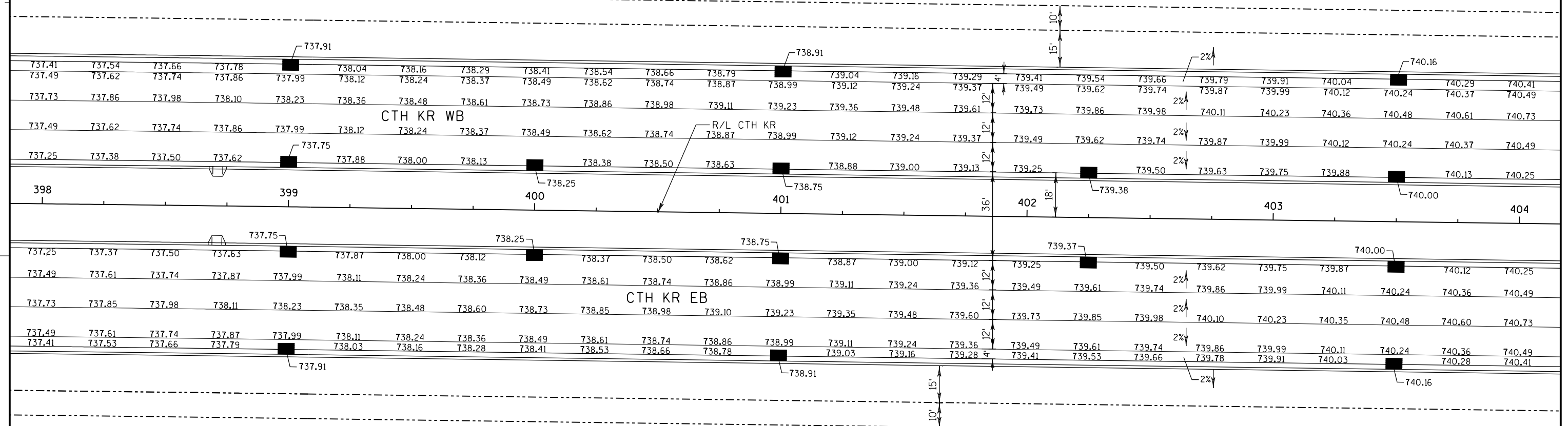
LEGEND

XXX.XX = SPOT ELEVATION

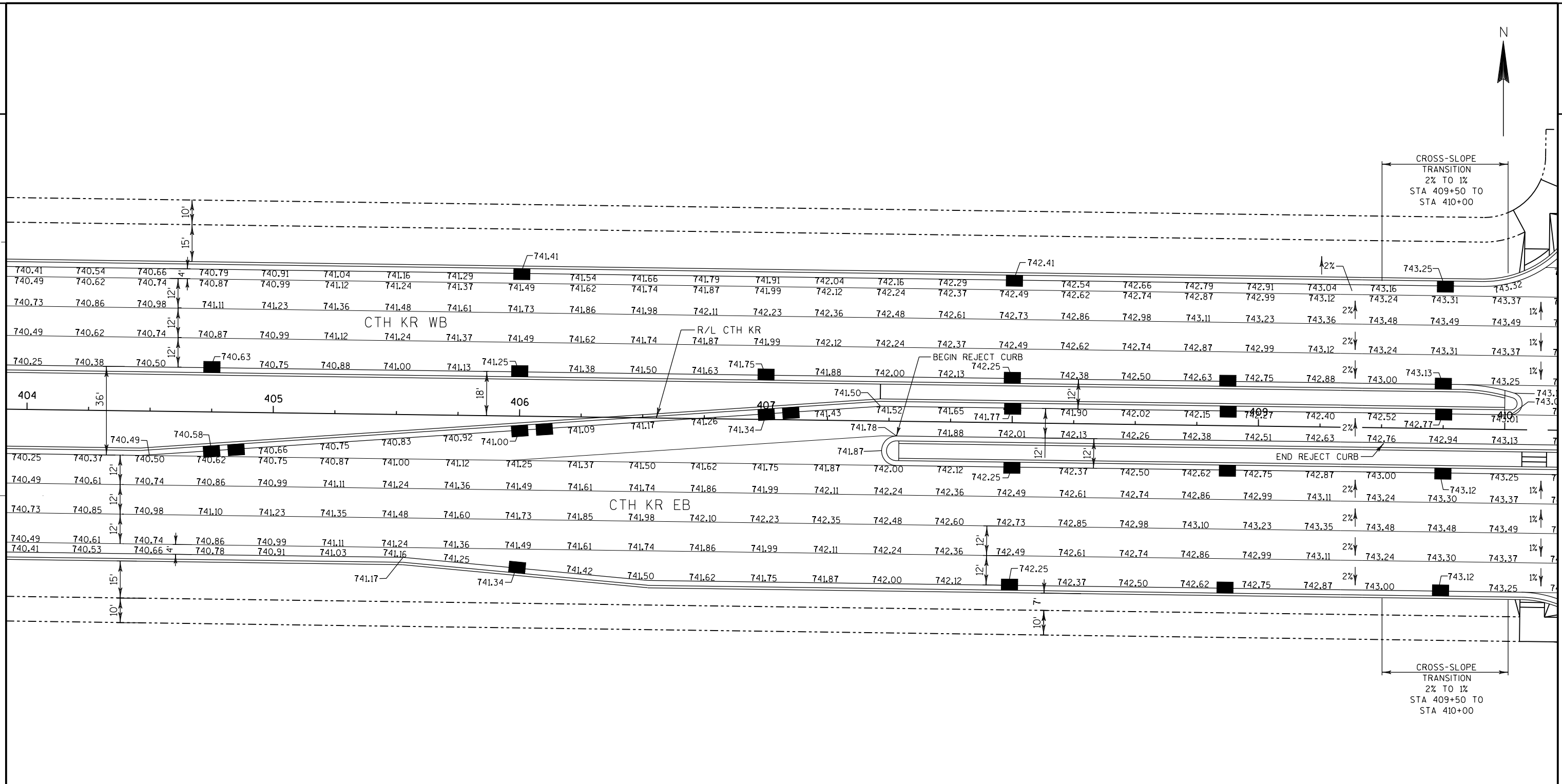


- NOTES:
- 1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.
 - 2) PAVING GRADES ARE SHOWN AT 25' INTERVALS BASED ON REFERENCE LINES FOR EACH DIRECTION OF TRAFFIC ALONG DIVIDED ROADWAYS.
 - 3) SEE "CONSTRUCTION DETAILS - CURB RAMPS" FOR CURB RAMP AND SIDEWALK INFORMATION.

LEGEND
XXX.XX = SPOT ELEVATION

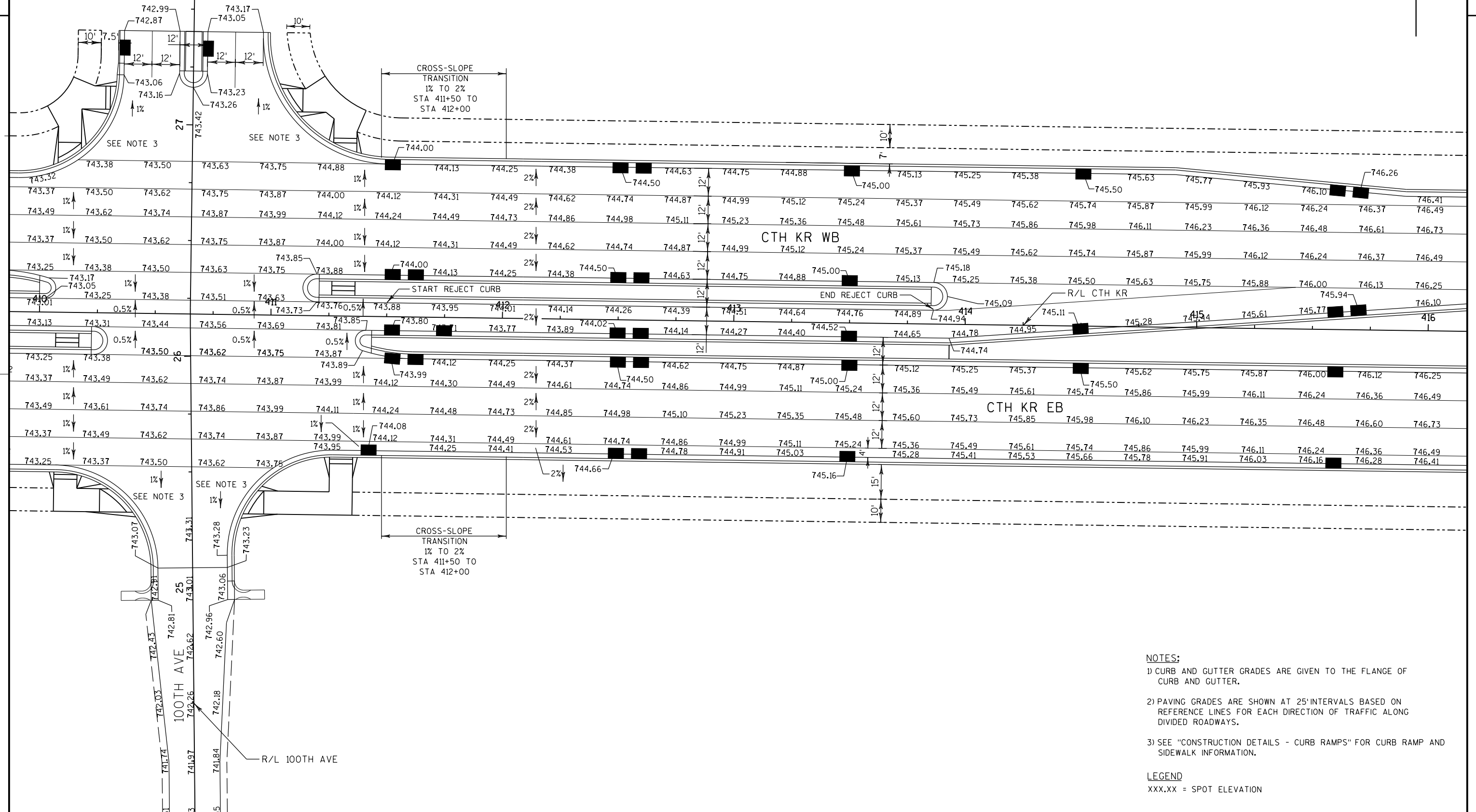


XXX.XX = SPOT ELEVATION



- NOTES:
- 1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.
 - 2) PAVING GRADES ARE SHOWN AT 25' INTERVALS BASED ON REFERENCE LINES FOR EACH DIRECTION OF TRAFFIC ALONG DIVIDED ROADWAYS.
 - 3) SEE "CONSTRUCTION DETAILS - CURB RAMPS" FOR CURB RAMP AND SIDEWALK INFORMATION.

LEGEND
XXX.XX = SPOT ELEVATION



PROJECT NO: 3763-00-73

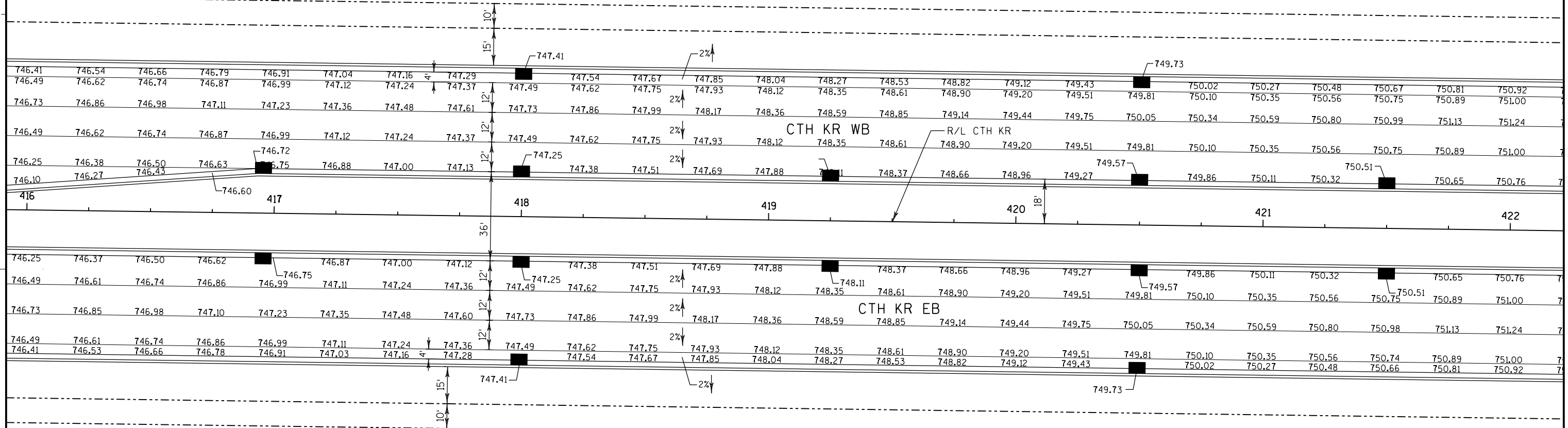
HWY: CTH KR

COUNTY: RACINE

PAVING GRADES

SHEET

E



NOTES:

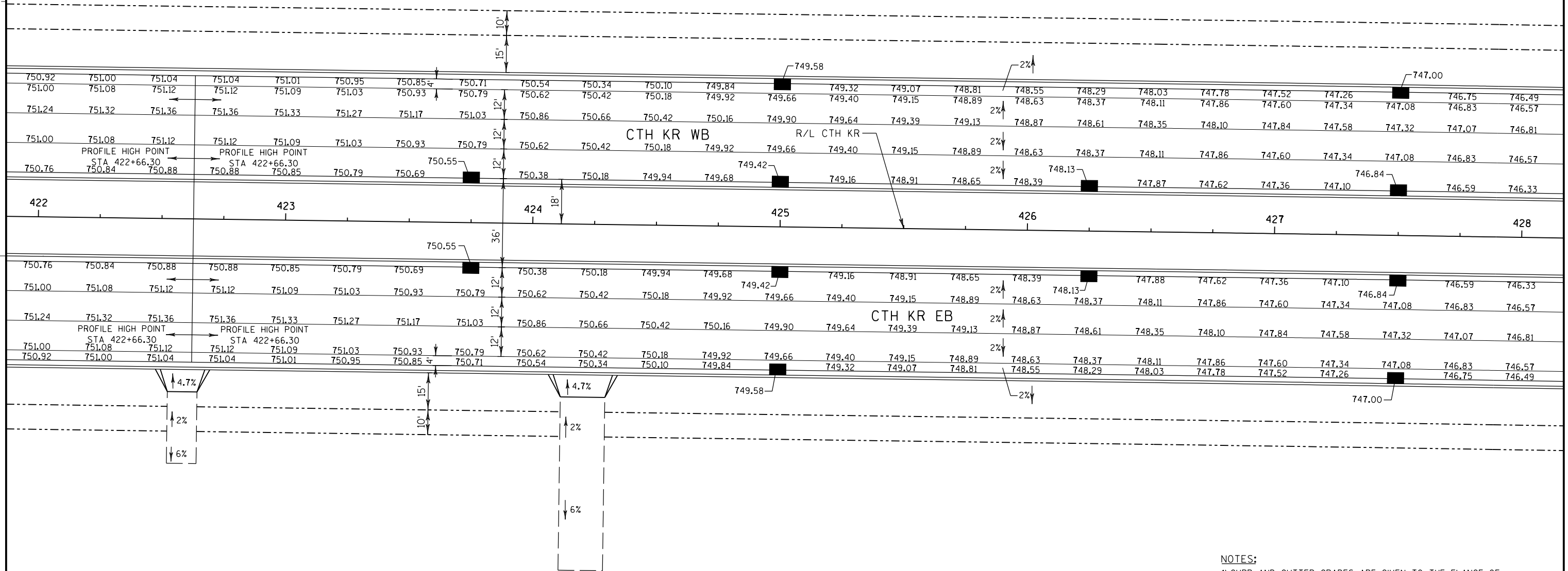
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS BASED ON REFERENCE LINES FOR EACH DIRECTION OF TRAFFIC ALONG DIVIDED ROADWAYS.

3) SEE "CONSTRUCTION DETAILS - CURB RAMPS" FOR CURB RAMP AND SIDEWALK INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION



NOTES:

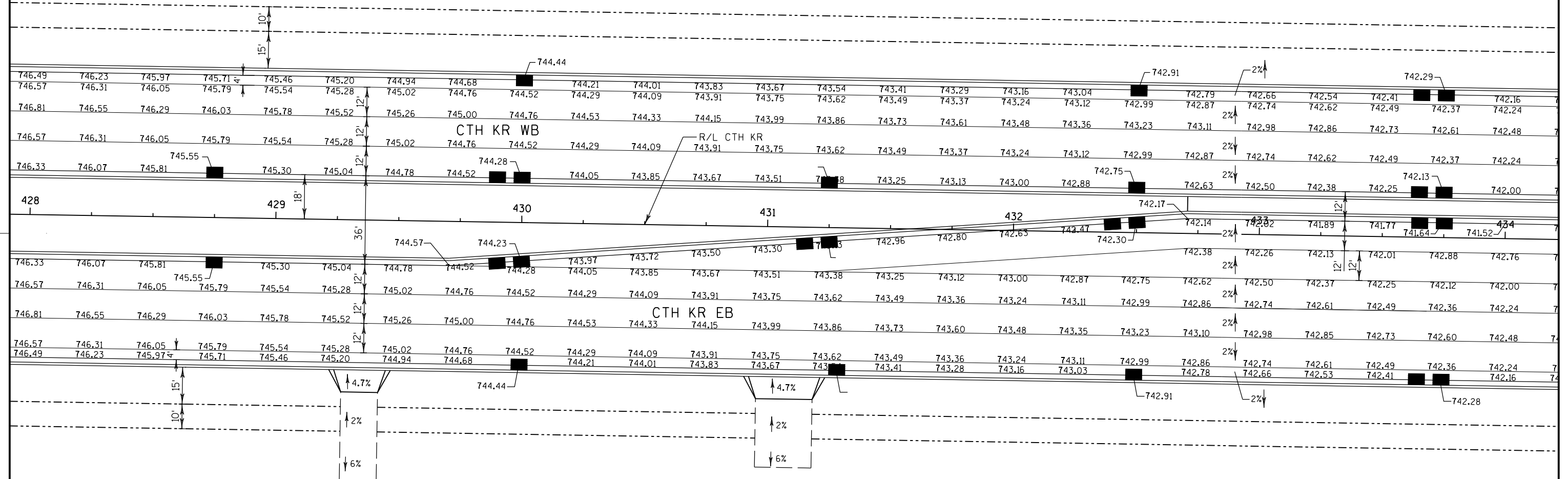
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS BASED ON REFERENCE LINES FOR EACH DIRECTION OF TRAFFIC ALONG DIVIDED ROADWAYS.

3) SEE "CONSTRUCTION DETAILS - CURB RAMPS" FOR CURB RAMP AND SIDEWALK INFORMATION.

LEGEND

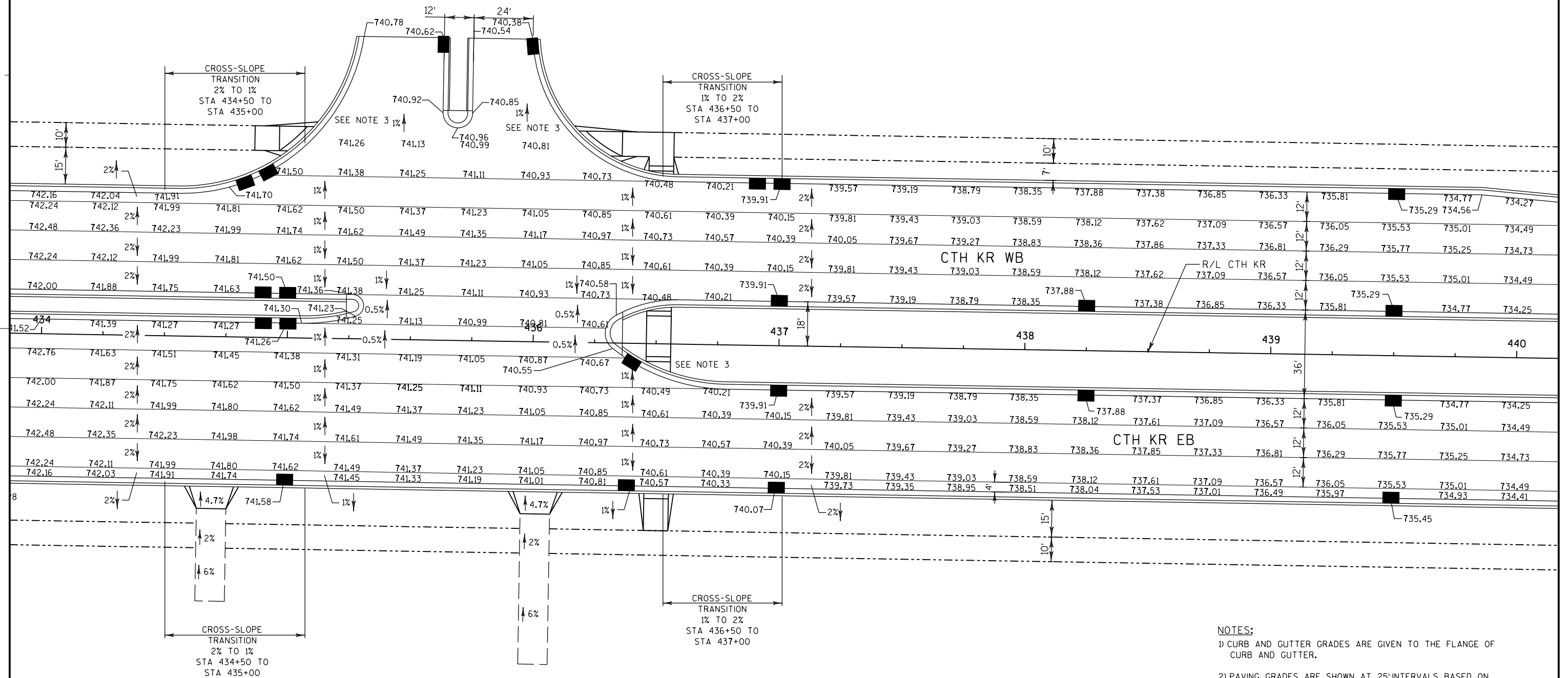
XXX.XX = SPOT ELEVATION

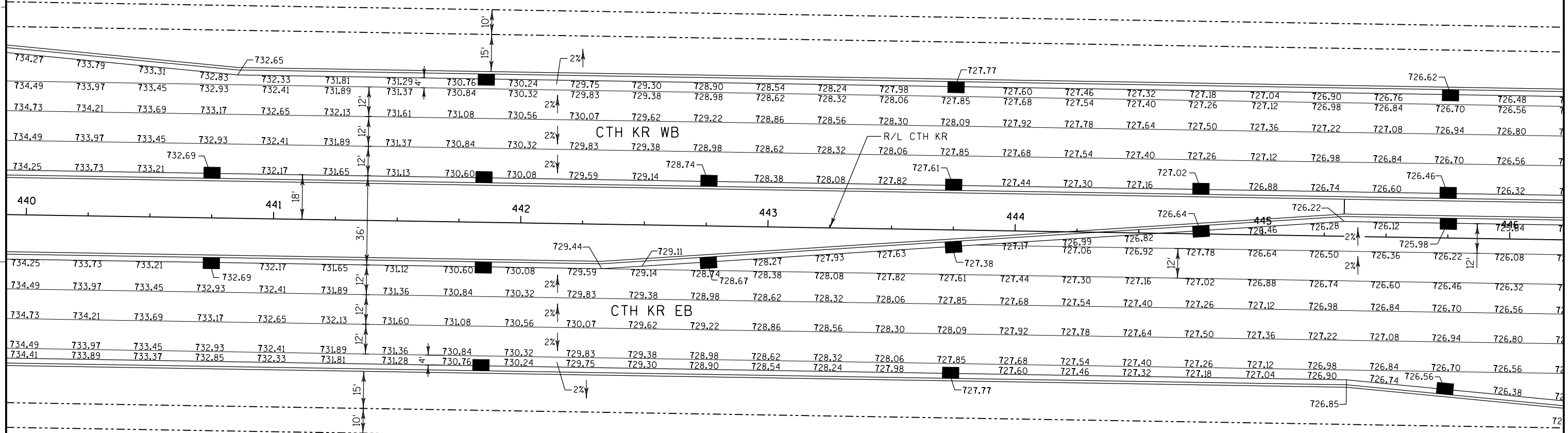


1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

- 3) SEE "CONSTRUCTION DETAILS - CURB RAMPS" FOR CURB RAMP AND SIDEWALK INFORMATION.

XXX.XX = SPOT ELEVATION



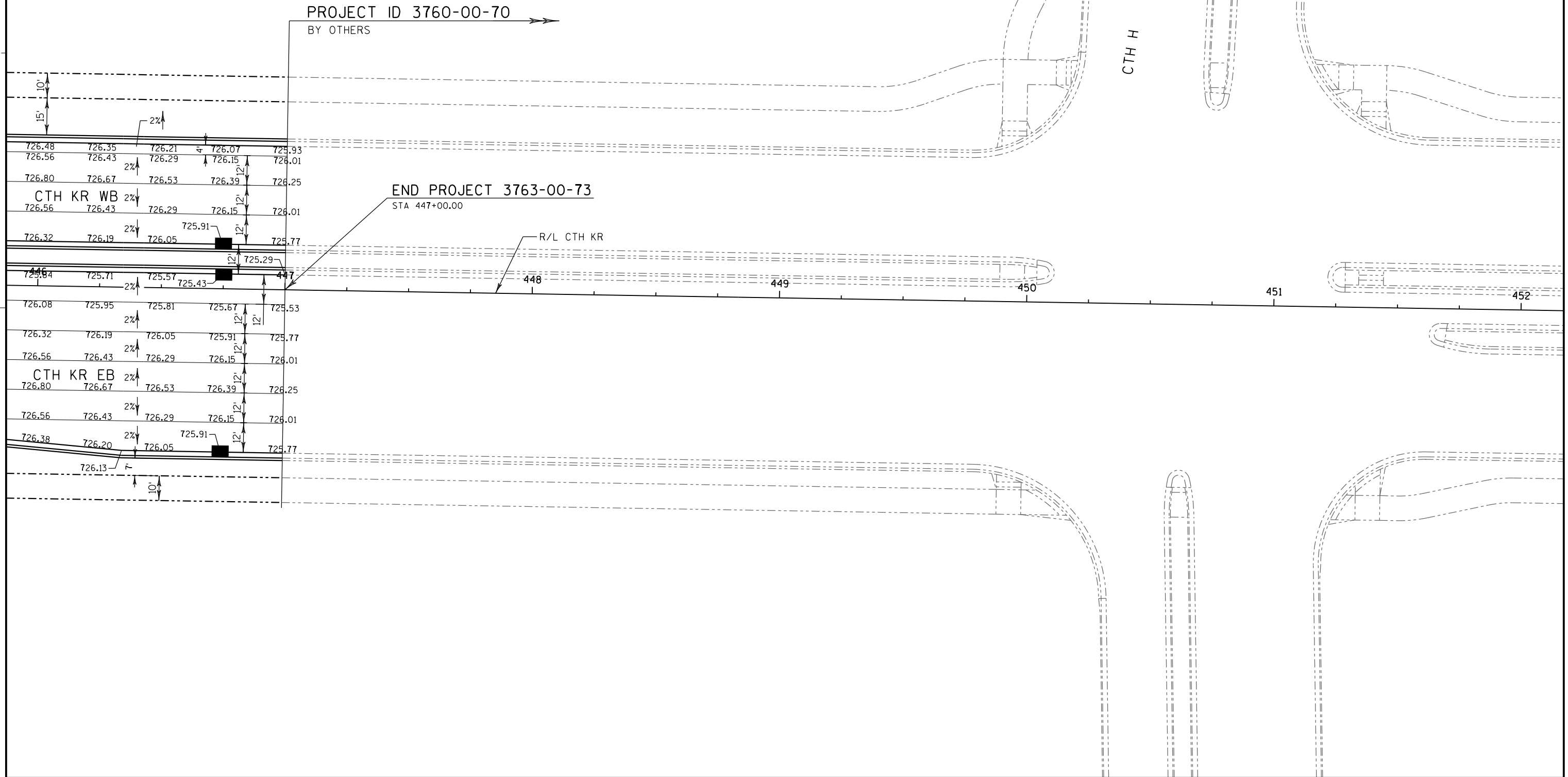


- NOTES:
- 1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.
 - 2) PAVING GRADES ARE SHOWN AT 25' INTERVALS BASED ON REFERENCE LINES FOR EACH DIRECTION OF TRAFFIC ALONG DIVIDED ROADWAYS.
 - 3) SEE "CONSTRUCTION DETAILS - CURB RAMPS" FOR CURB RAMP AND SIDEWALK INFORMATION.

LEGEND
XXX.XX = SPOT ELEVATION

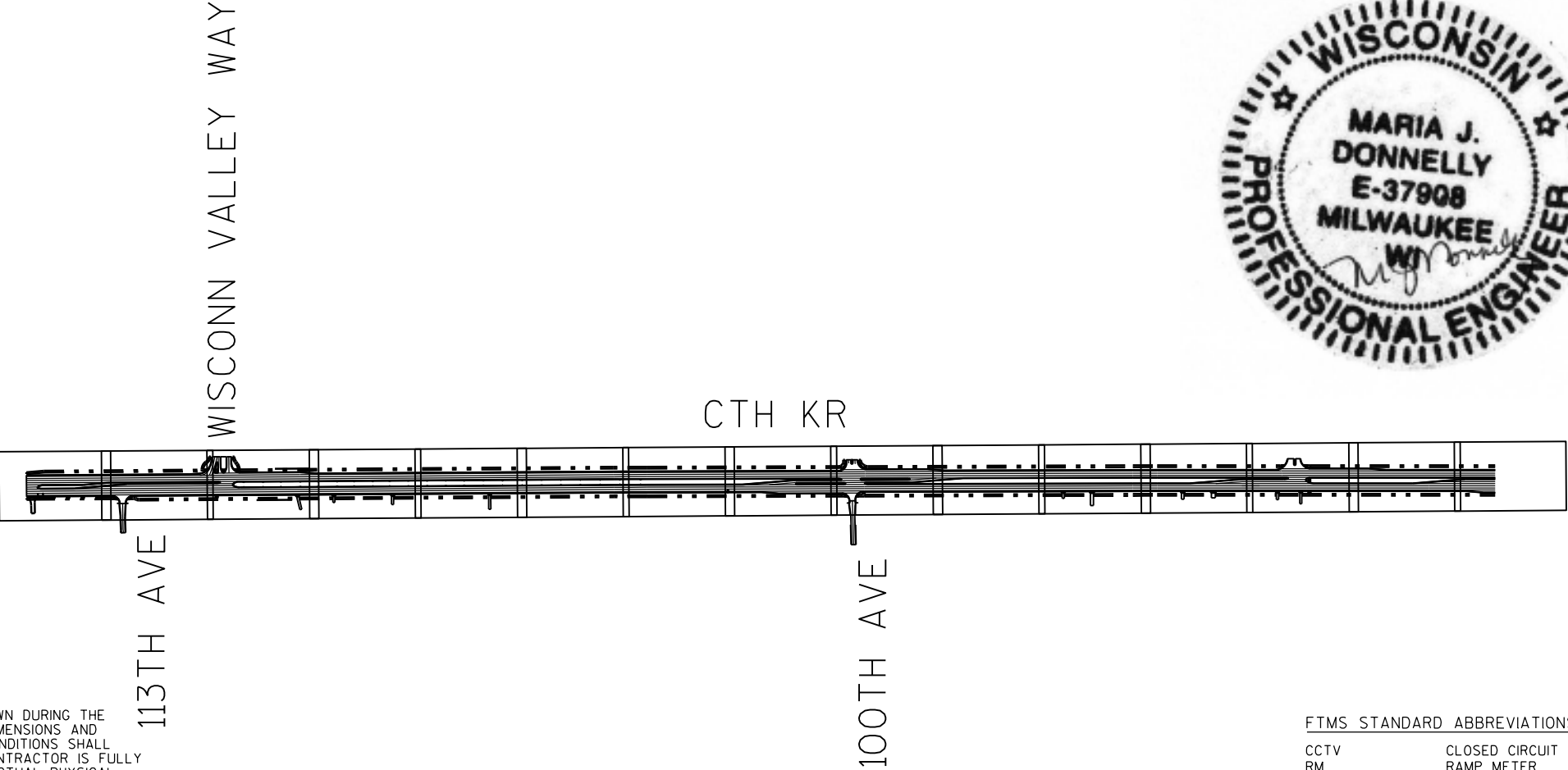
NOTES:
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.
2) PAVING GRADES ARE SHOWN AT 25' INTERVALS BASED ON REFERENCE LINES FOR EACH DIRECTION OF TRAFFIC ALONG DIVIDED ROADWAYS.
3) SEE "CONSTRUCTION DETAILS - CURB RAMPS" FOR CURB RAMP AND SIDEWALK INFORMATION.

LEGEND
XXX.XX = SPOT ELEVATION



PROJECT NO: 3763-00-73	HWY: CTH KR	COUNTY: RACINE	PAVING GRADES	SHEET	E
------------------------	-------------	----------------	---------------	-------	---





FTMS GENERAL NOTES

THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.

BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION ARE TO BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND MULCH. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION WILL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS. NO PAYMENT WILL BE MADE FOR RESTORING AREAS DISTURBED FOR FTMS CONSTRUCTION OPERATIONS.

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

DUE TO RAMP, LANE, SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.

THE CONTRACTOR IS TO CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.

HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.

VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

INSTALL CONDUIT BELOW FUTURE MULTIUSE PATH SO AS NOT TO BE DISTURBED WHEN THE PATH IS CONSTRUCTED. INSTALL CONDUIT AND VAULTS AROUND PROPOSED IRRIGATION SYSTEM.

FTMS STANDARD ABBREVIATIONS

CCTV	CLOSED CIRCUIT TELEVISION SITE
RM	RAMP METER
DMS	DYNAMIC MESSAGE SIGN
SDS	SYSTEM DETECTOR STATION
ATR	AUTOMATIC TRAFFIC RECORDER
FY	ADVANCE FLASHER (ASSEMBLY)
CB	CONTROLLER CABINET
PB	PULL BOX
GPB	GROUNDING PULL BOX
MH	MANHOLE
CV	COMMUNICATIONS VAULT
SB	SIGNAL BASE
MD	MICROWAVE DETECTOR

LEGEND

FTMS CONVENTIONAL SYMBOLS

FTMS (ITS) CONDUIT - - - - -

COMMUNICATIONS VAULT, TYPE 1 - - - - -

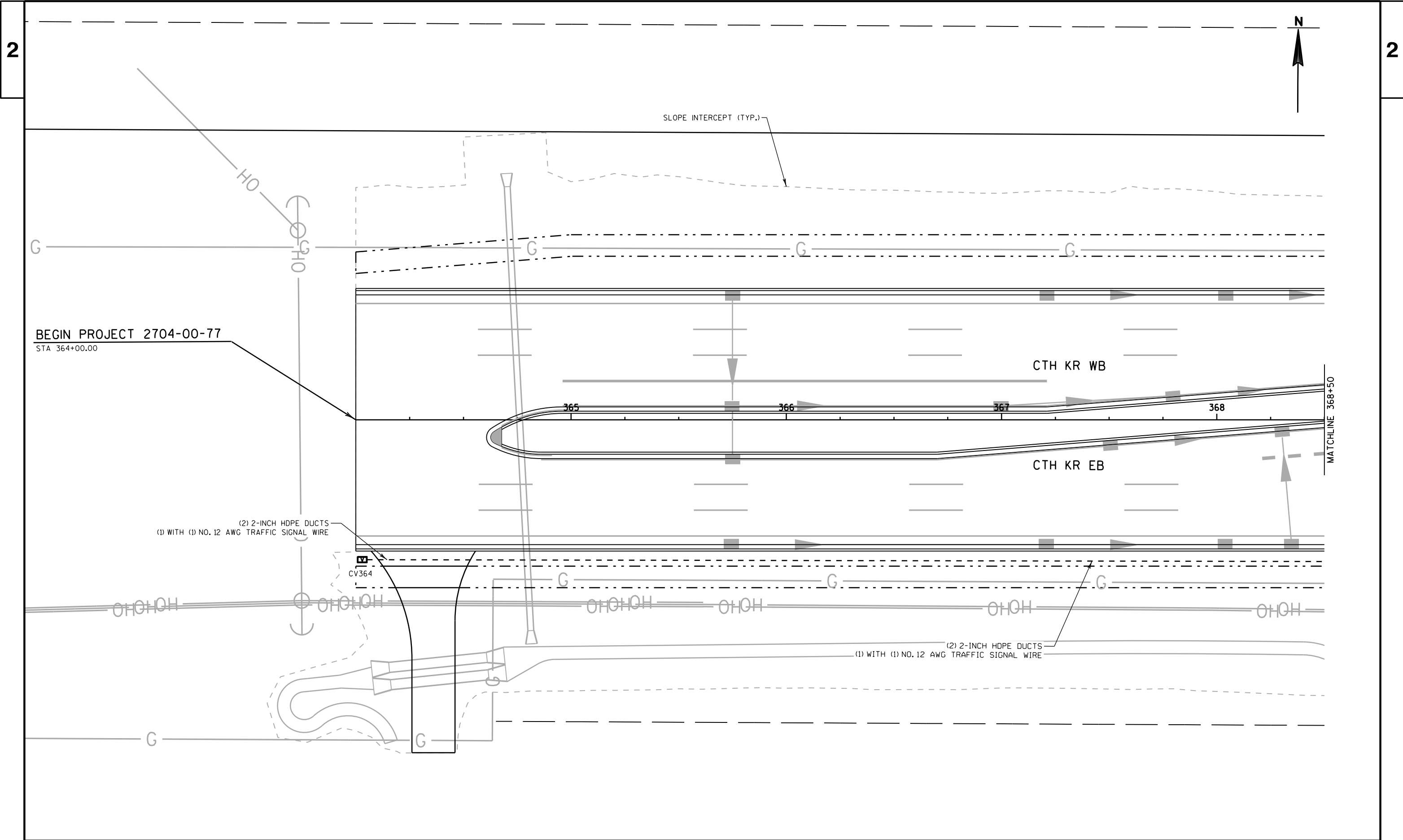
EXISTING

- -

PROPOSED

- -

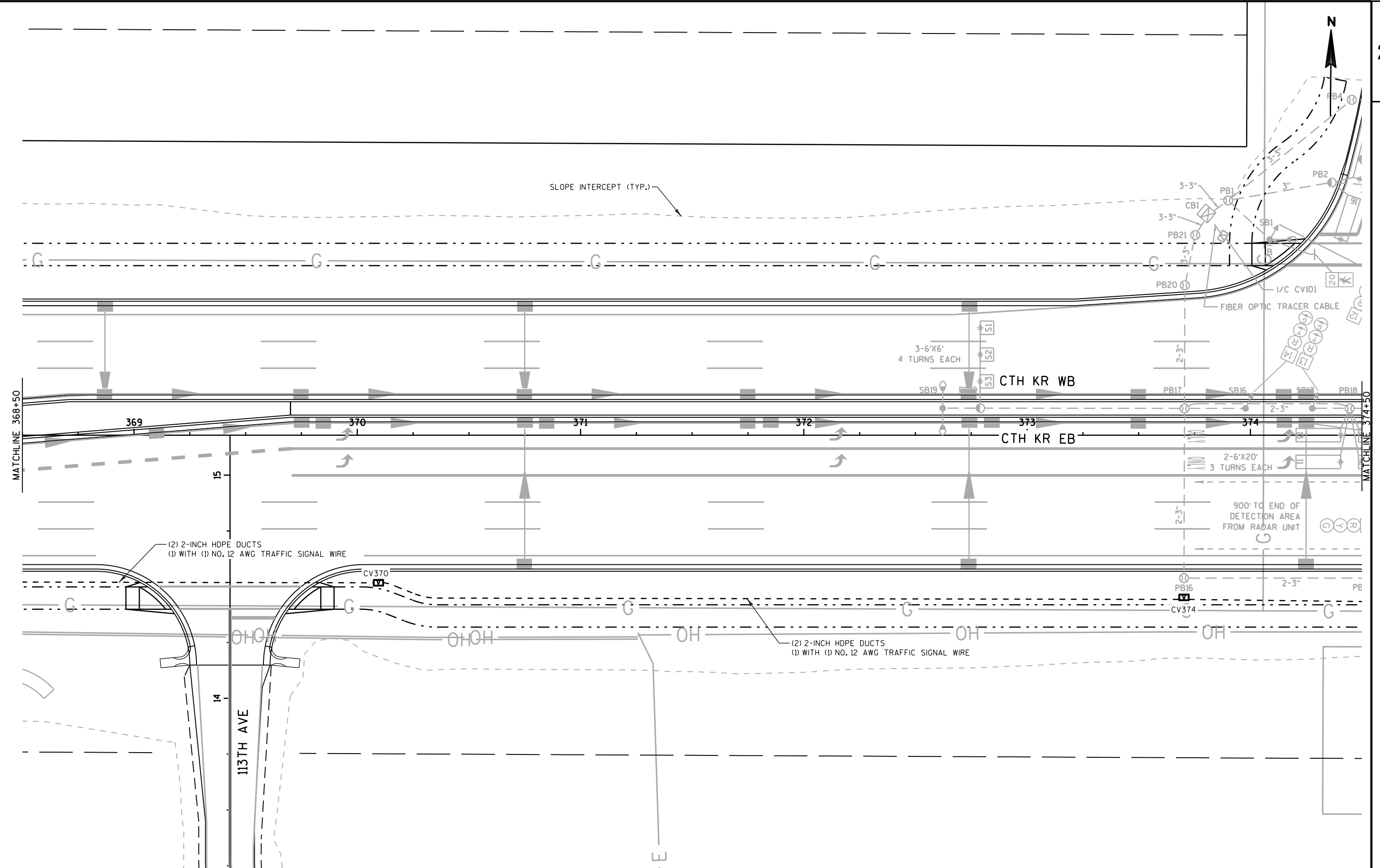
CV



PROJECT NO:2704-00-77	HWY:CTH KR	COUNTY:RACINE	ITS PLANS	SHEET	E
-----------------------	------------	---------------	-----------	-------	---

2

2



PROJECT NO:2704-00-77

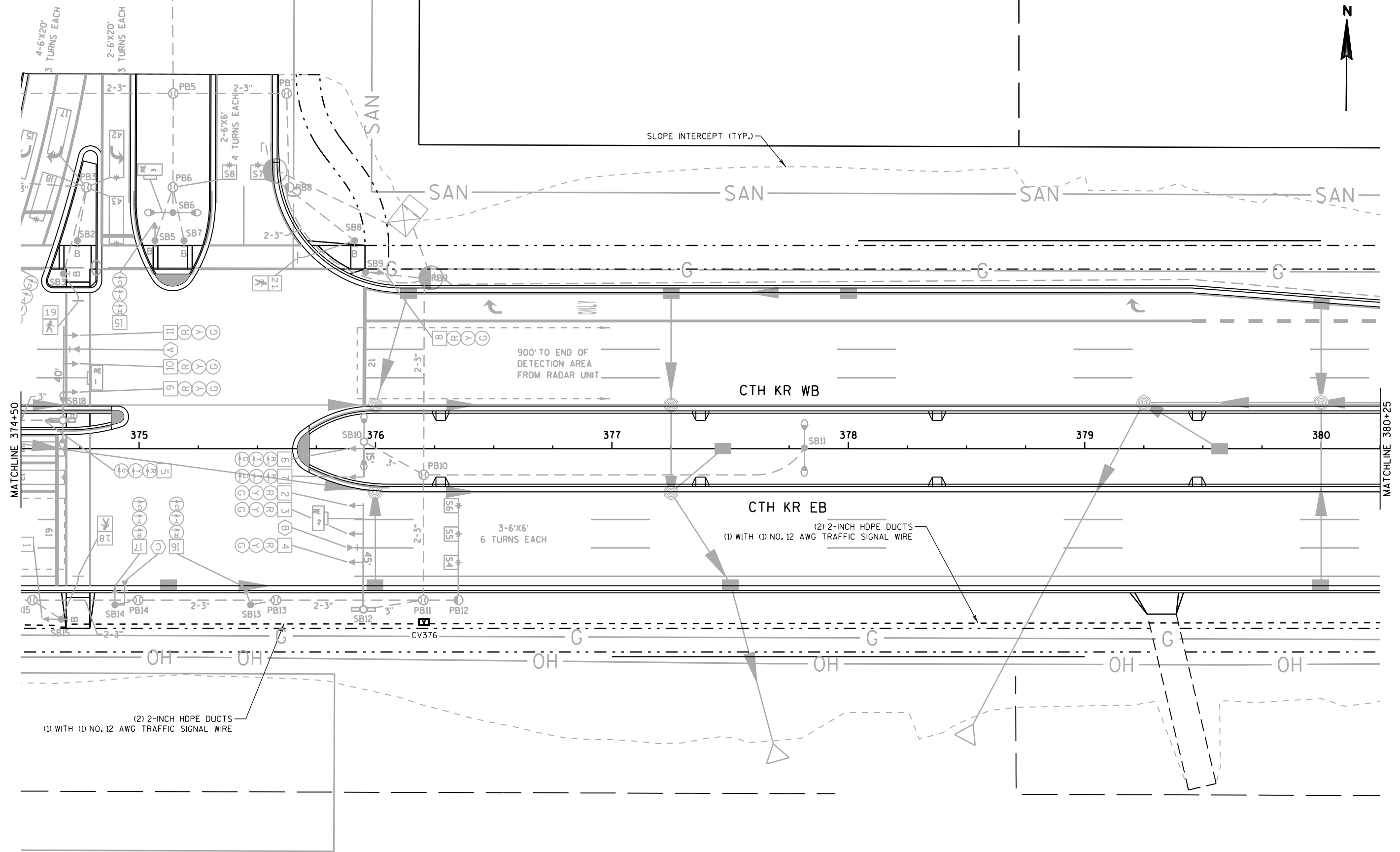
HWY: CTH KR

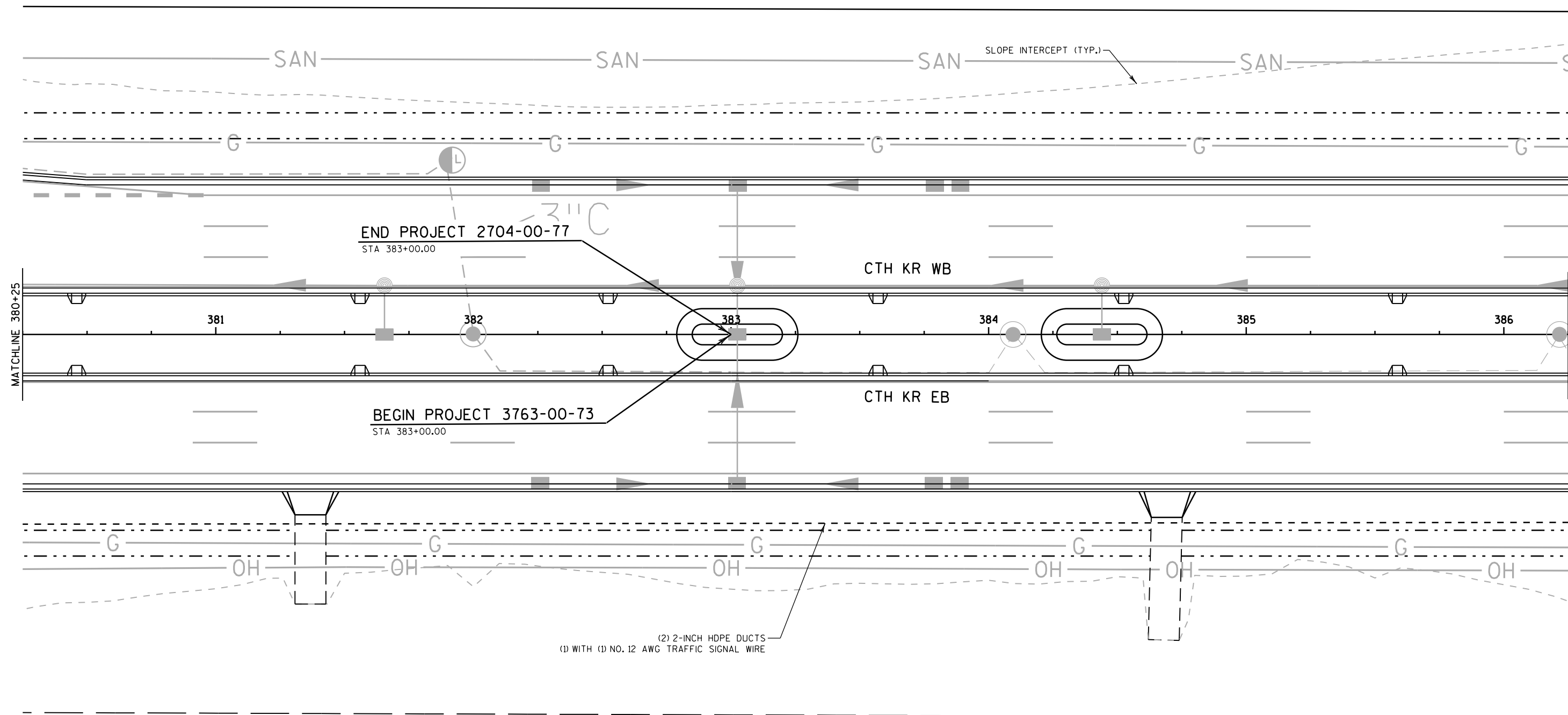
COUNTY: RACINE

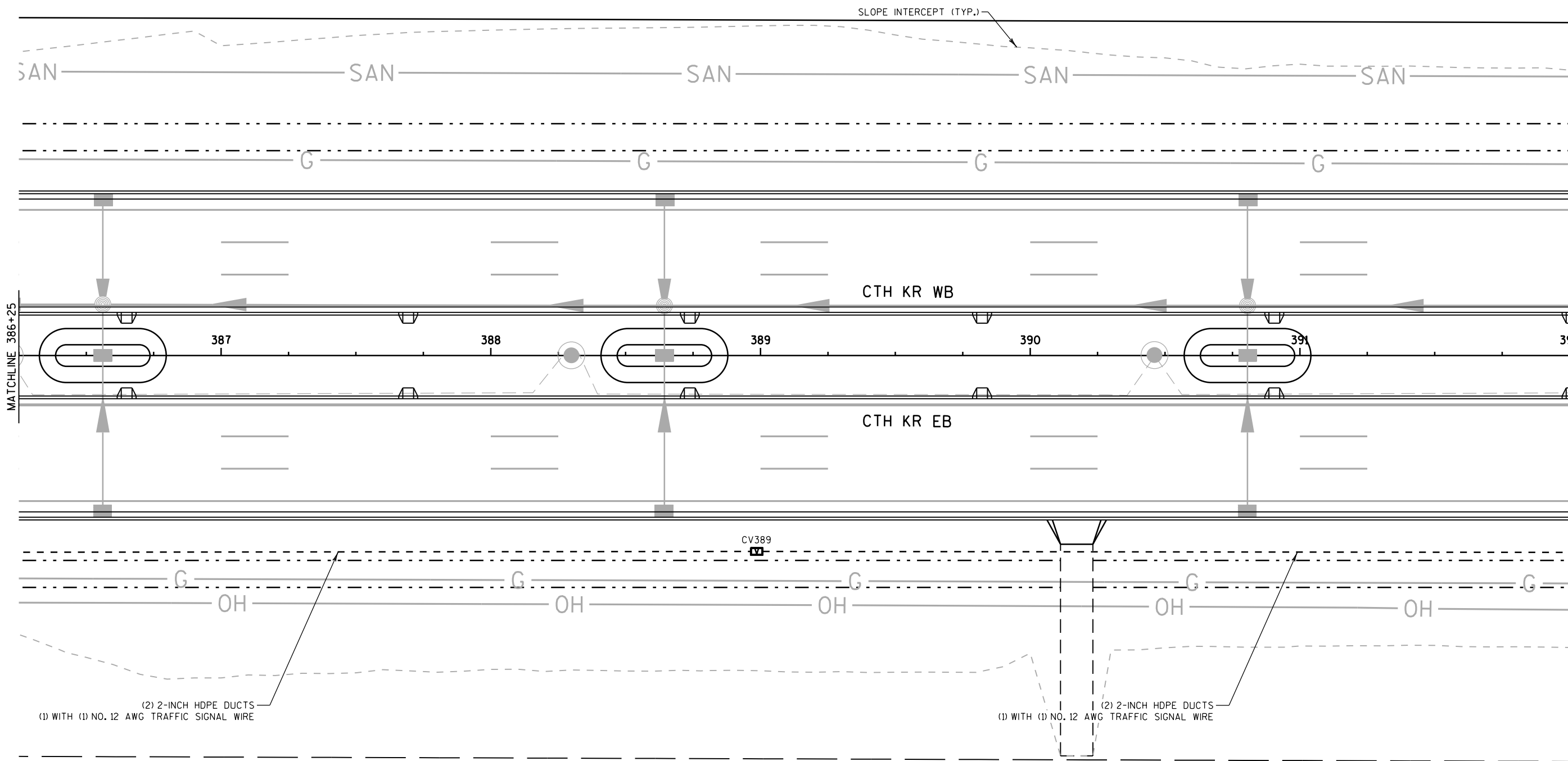
ITS PLANS

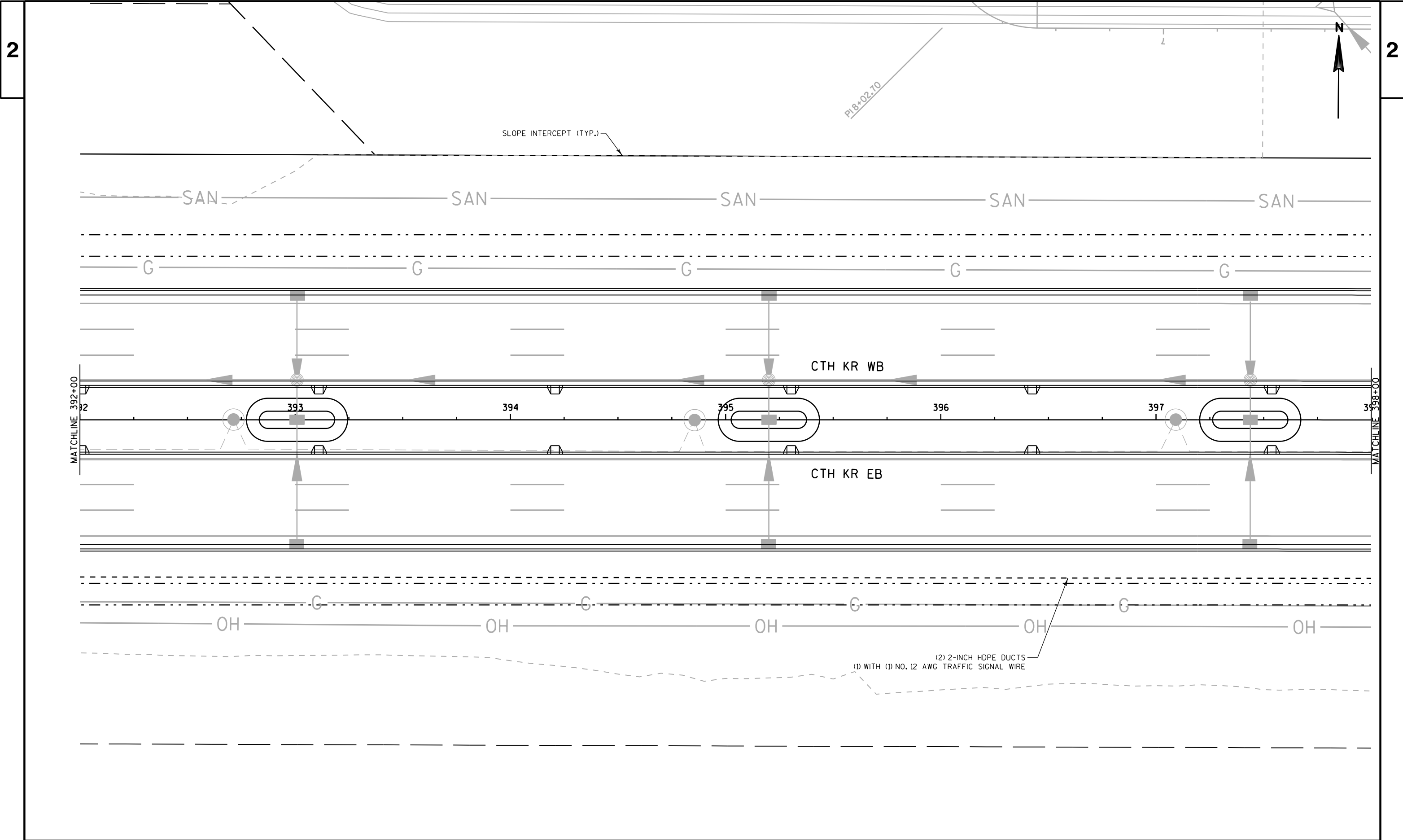
SHEET

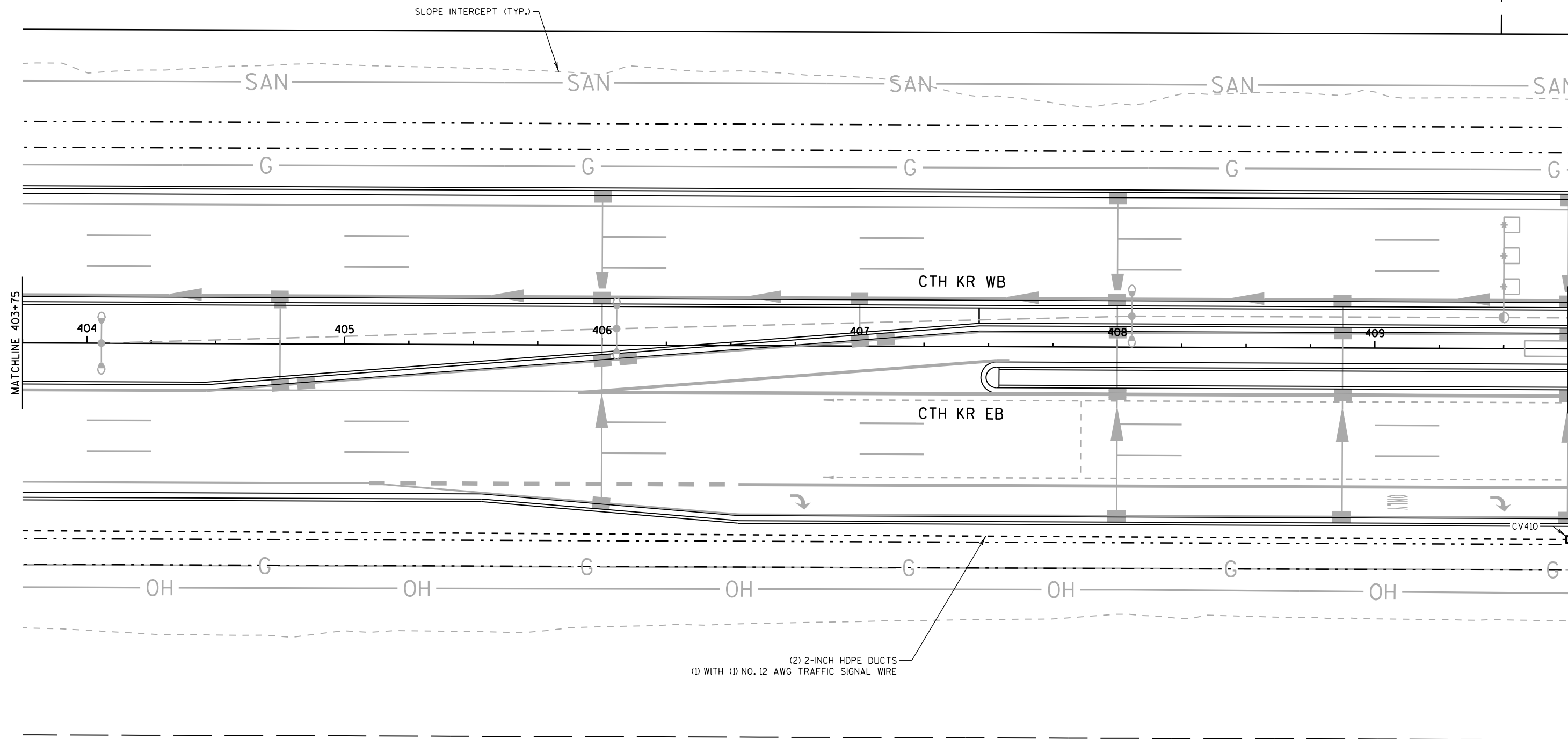
E





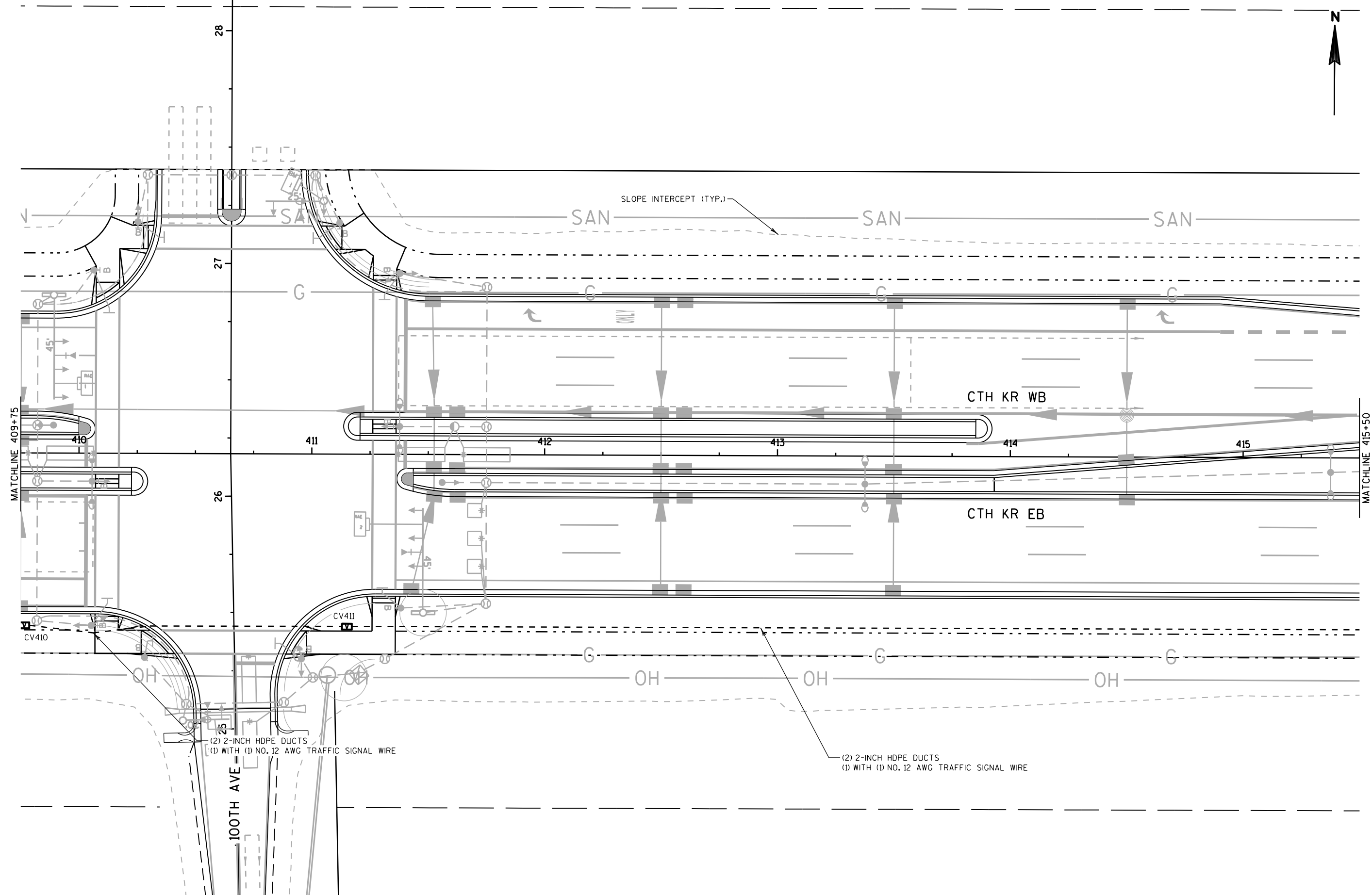


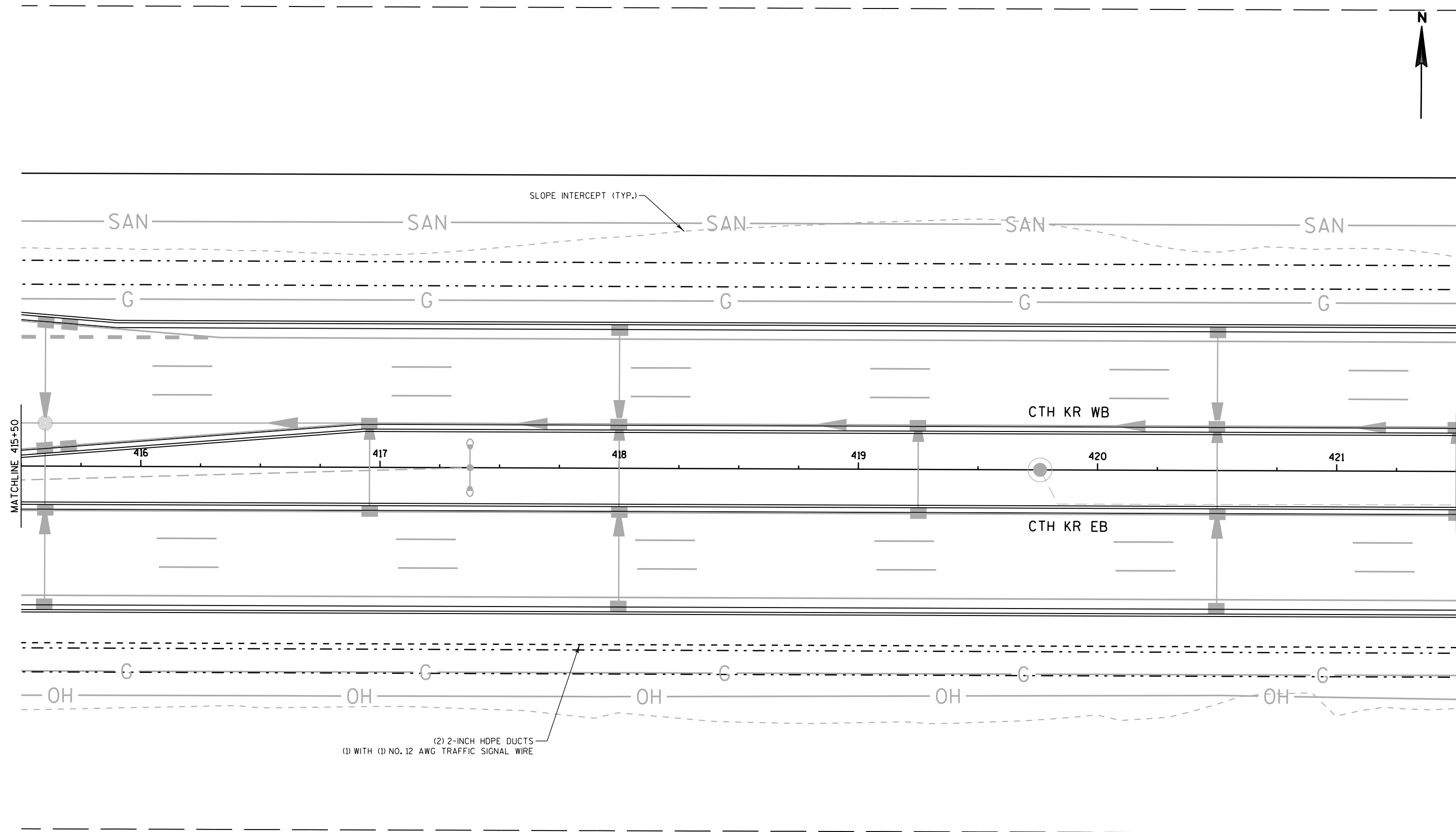


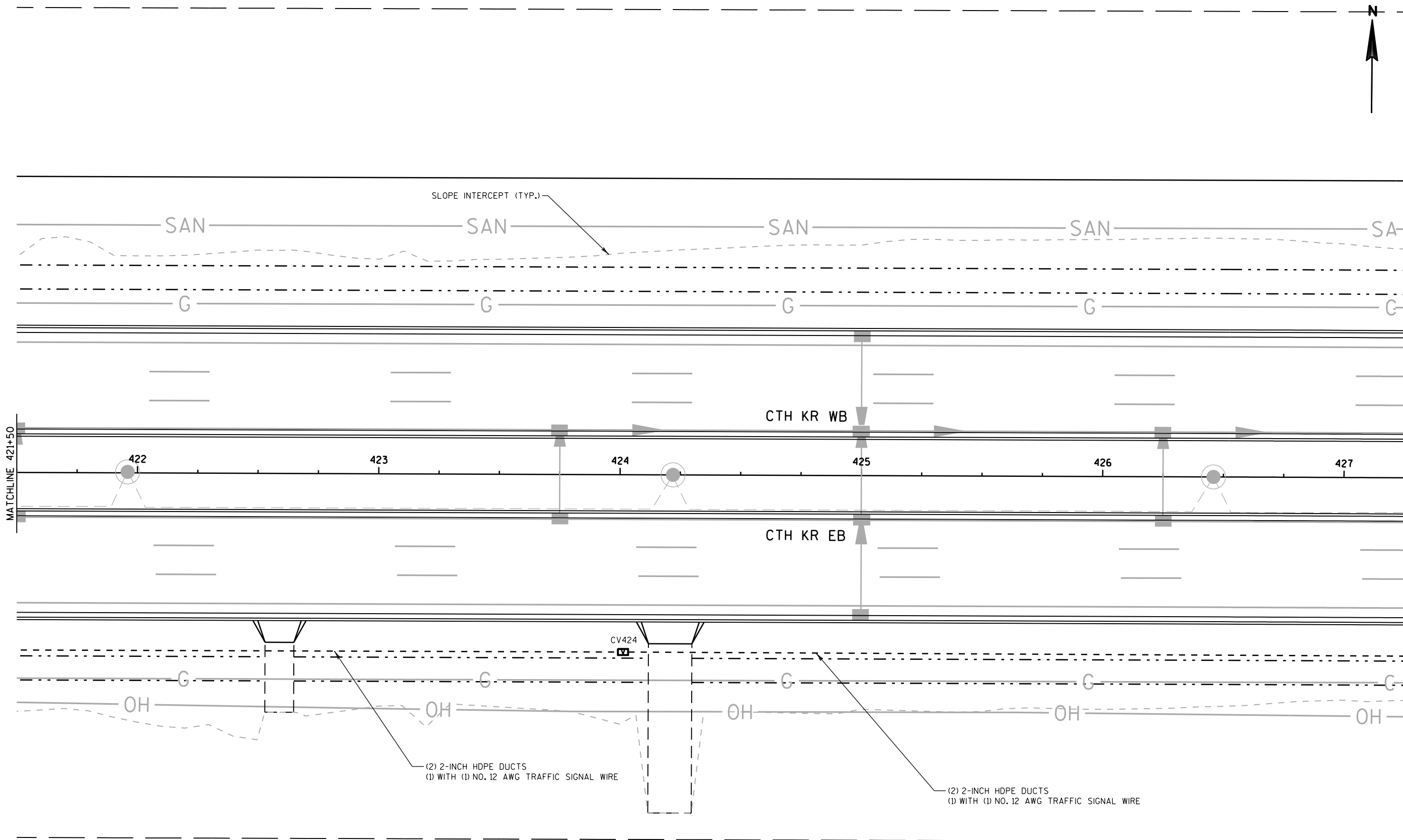


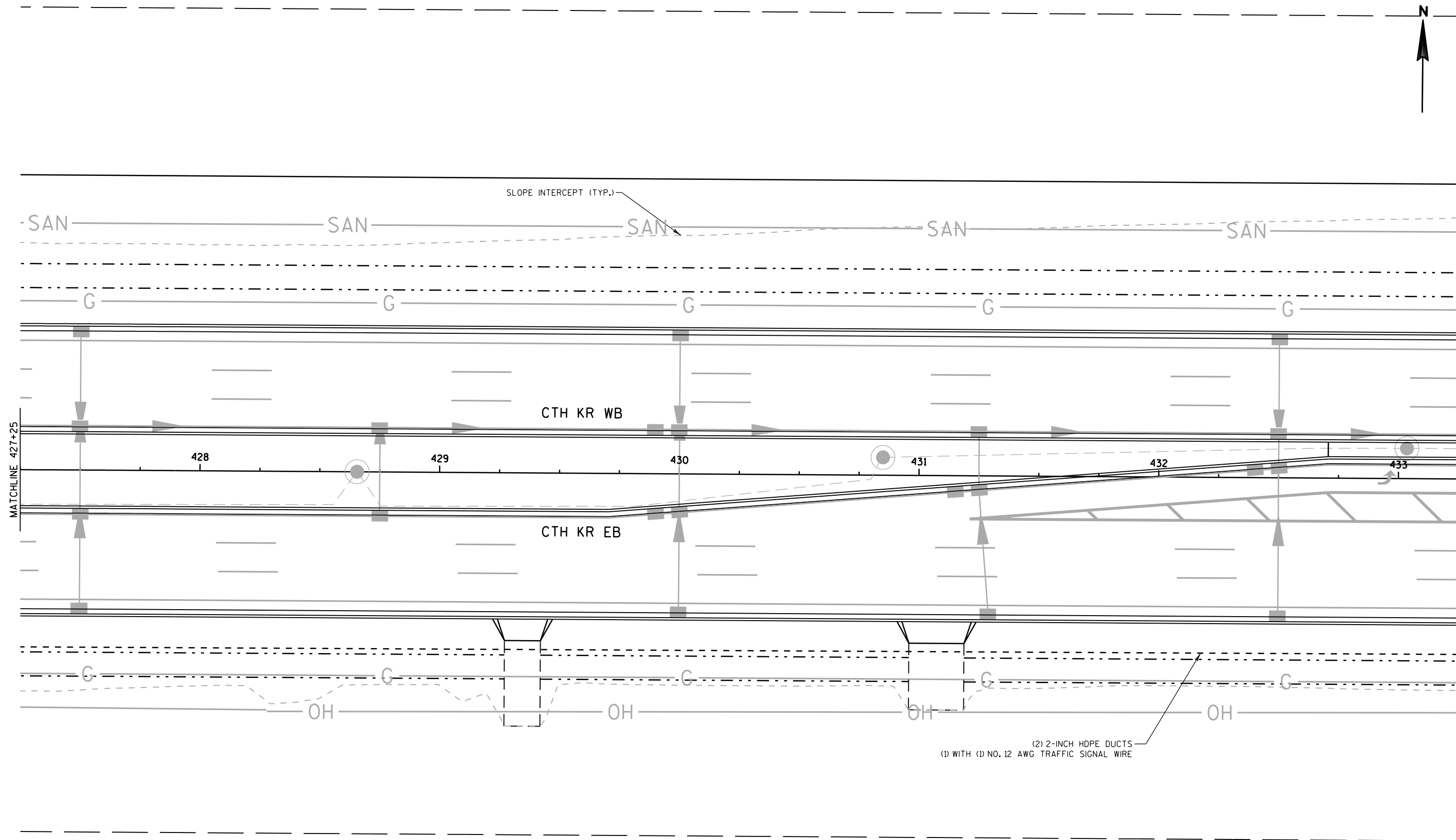
2

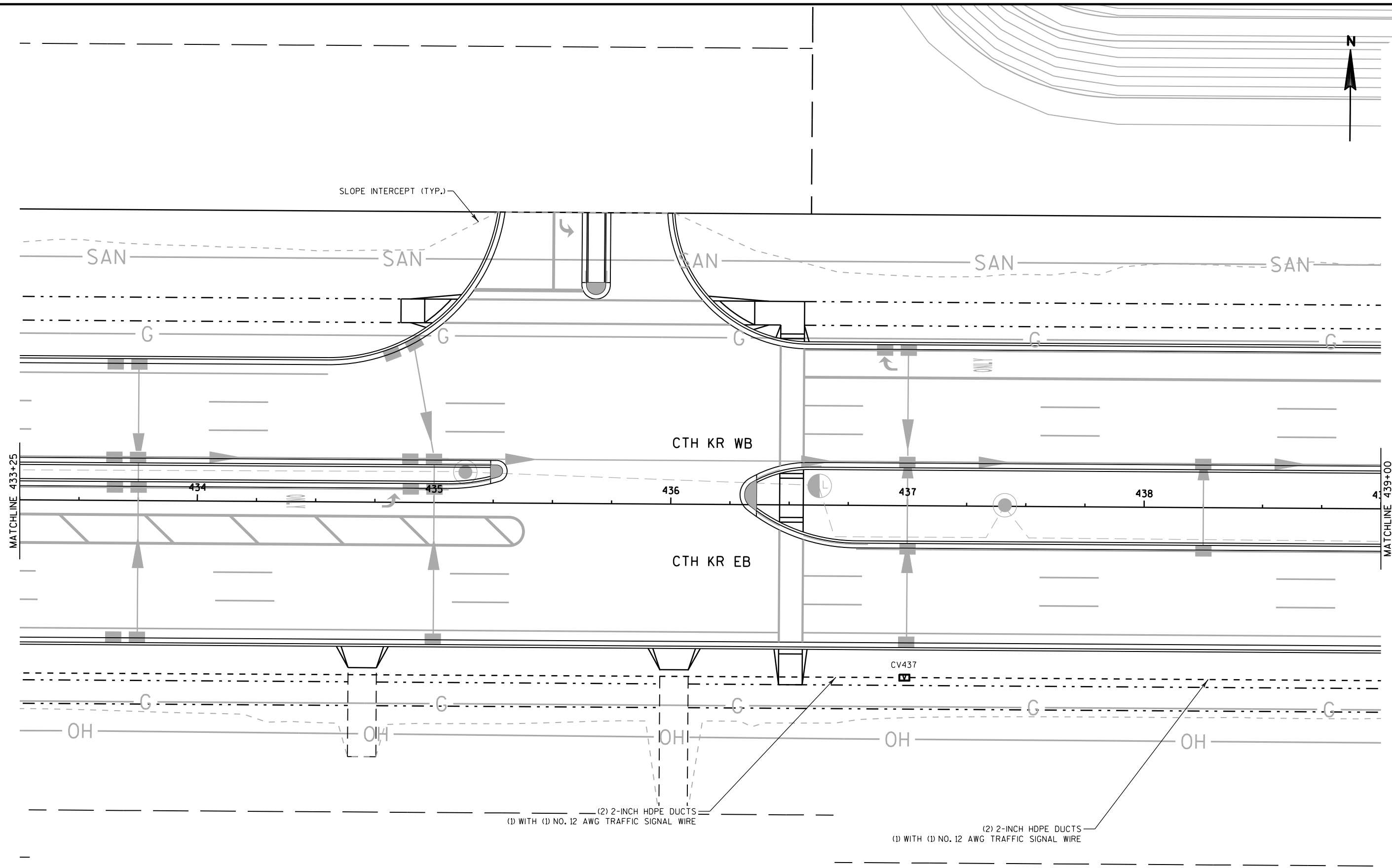
2

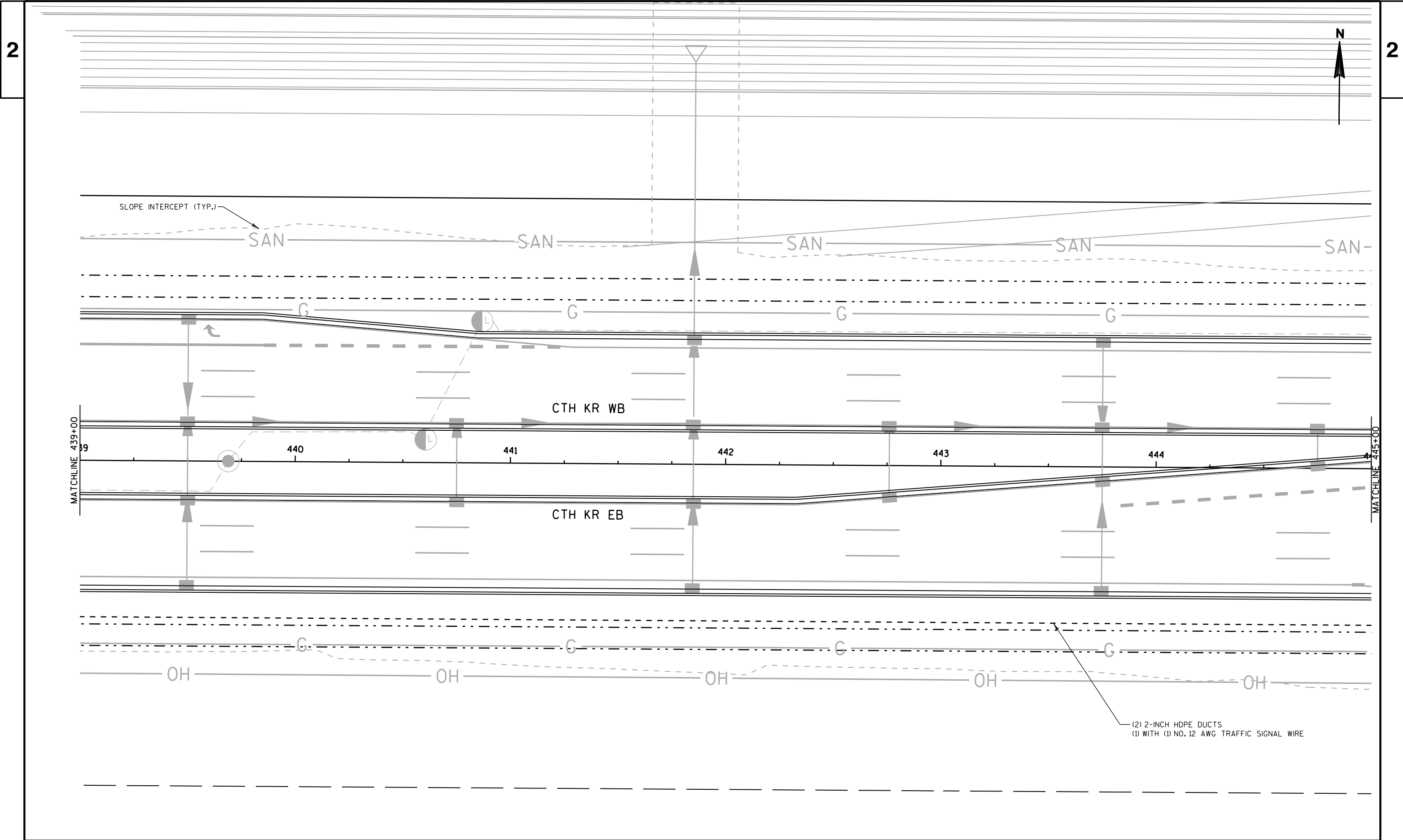


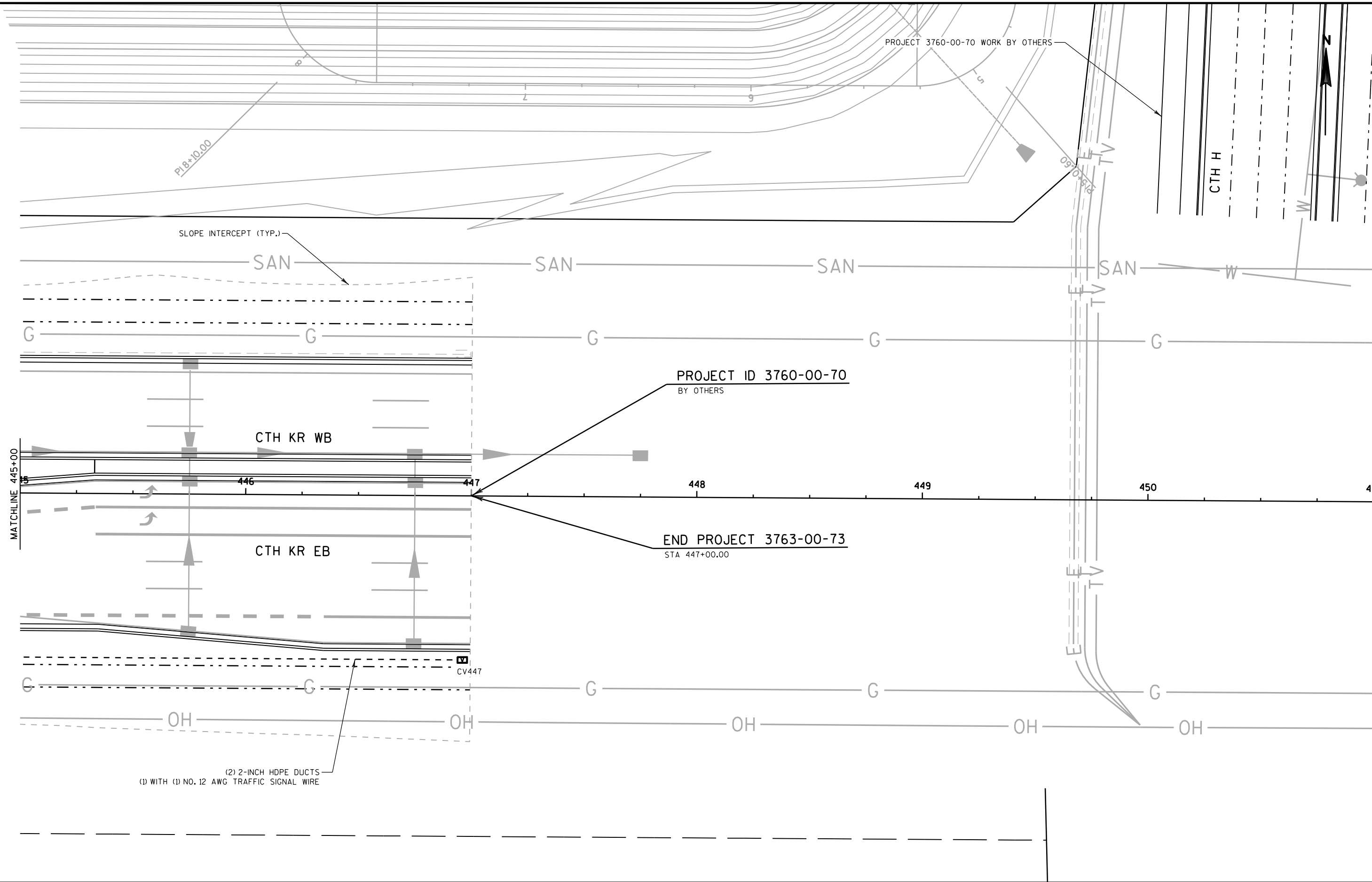


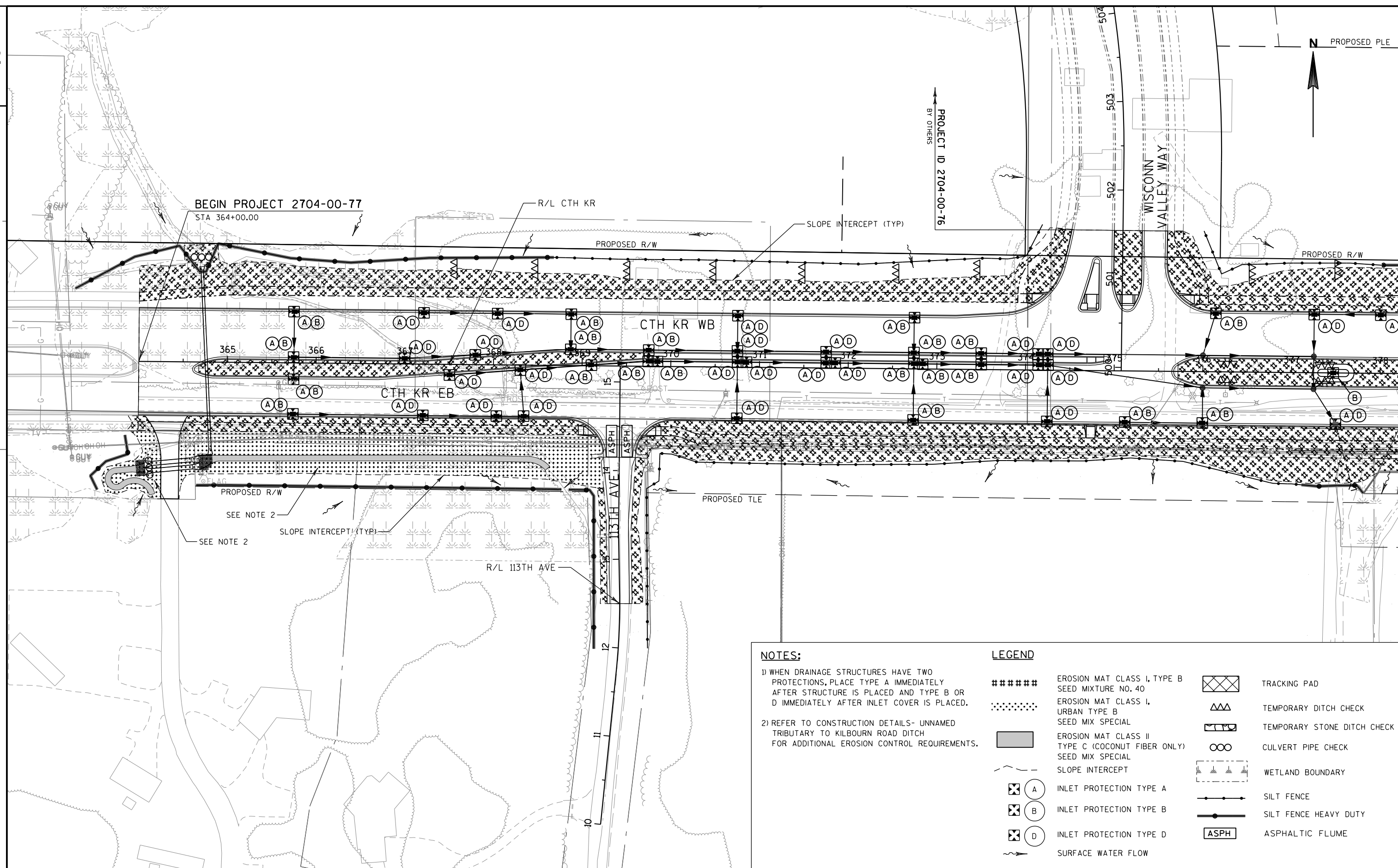


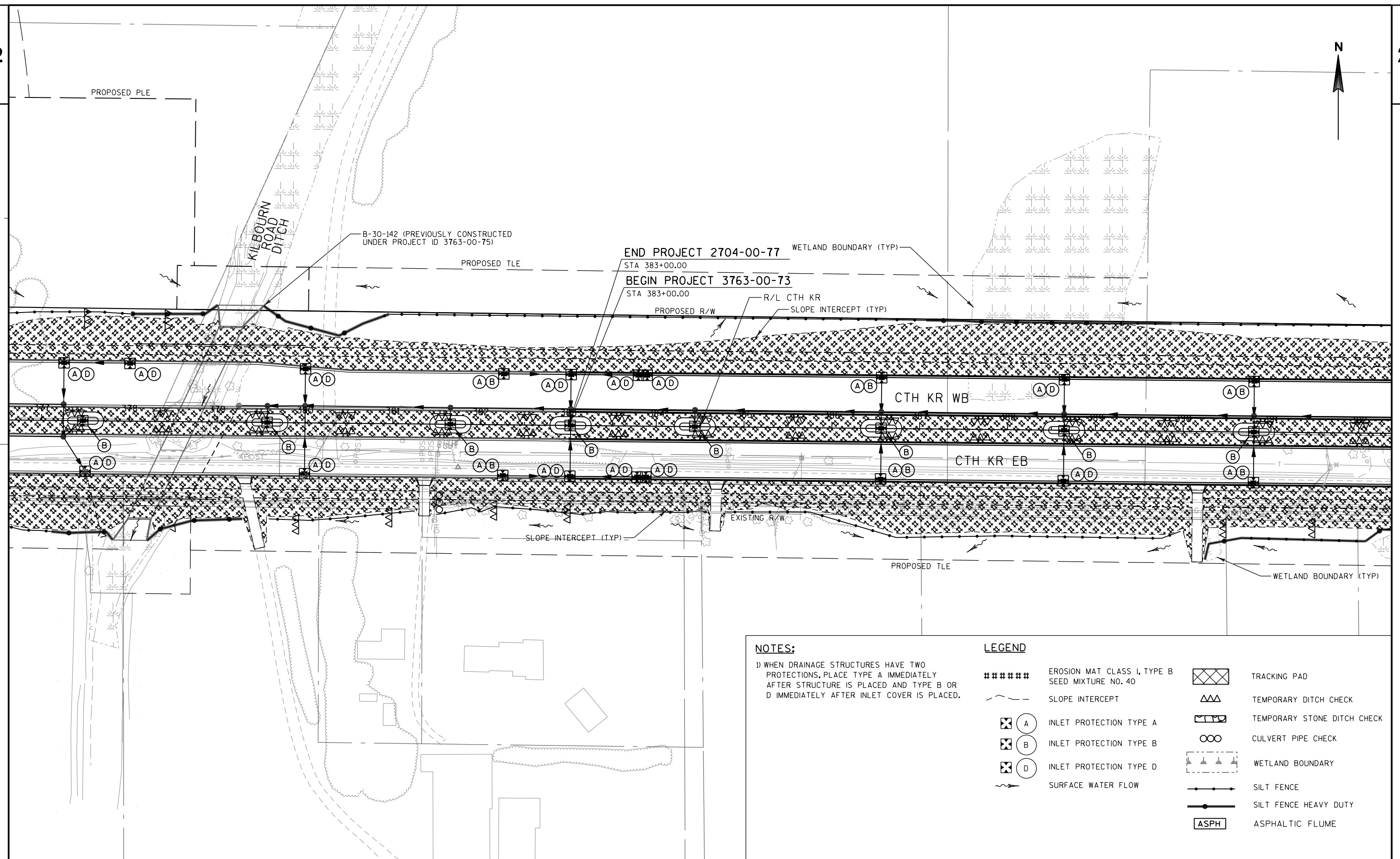


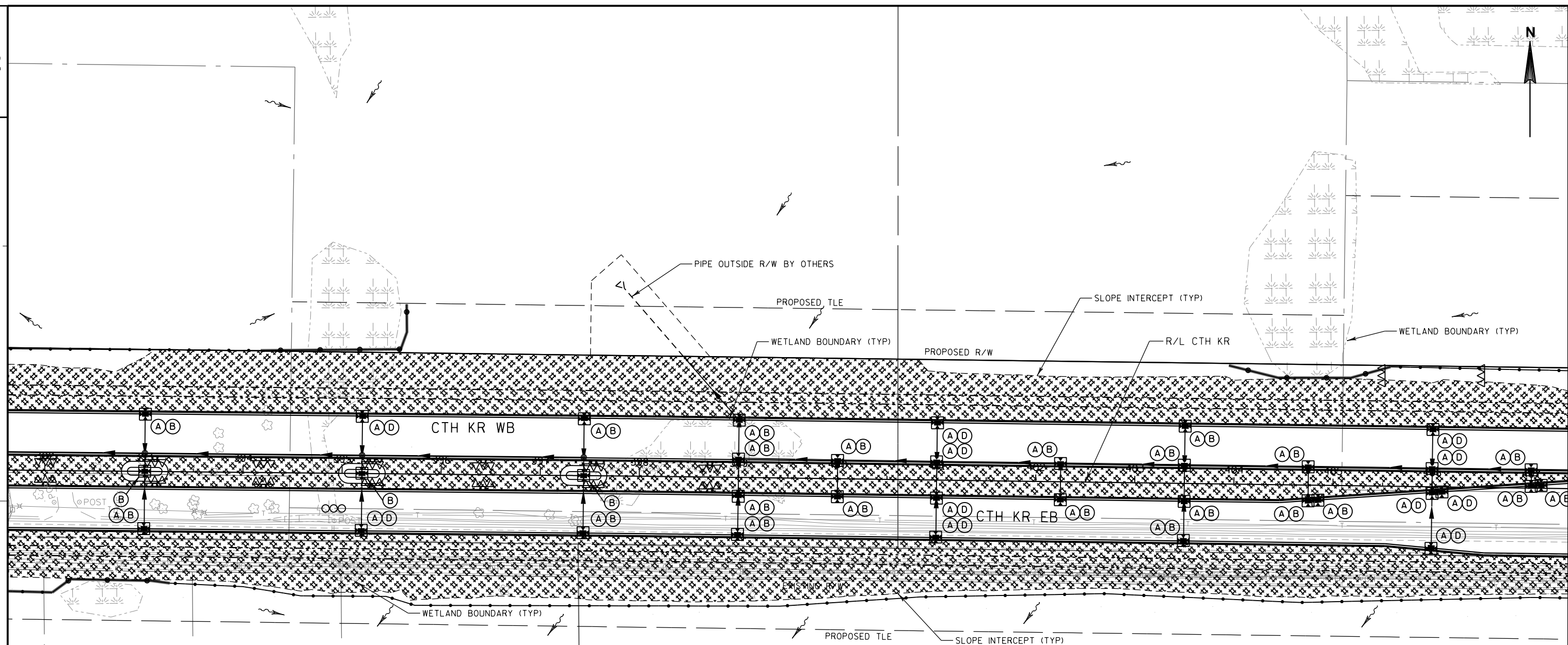








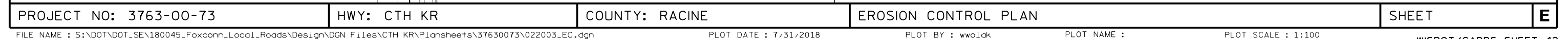


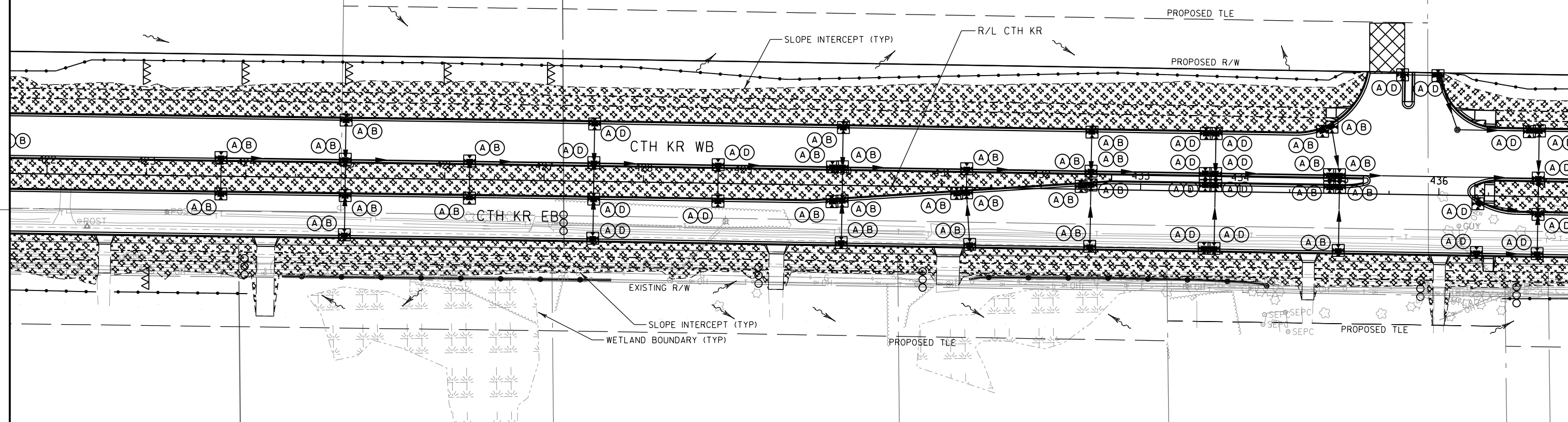
**NOTES:**

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE B OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

LEGEND

#####	EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40		TRACKING PAD
	SLOPE INTERCEPT		TEMPORARY DITCH CHECK
	INLET PROTECTION TYPE A		TEMPORARY STONE DITCH CHECK
	INLET PROTECTION TYPE B		CULVERT PIPE CHECK
	INLET PROTECTION TYPE D		WETLAND BOUNDARY
	SURFACE WATER FLOW		SILT FENCE
			SILT FENCE HEAVY DUTY
			ASPHALTIC FLUME



**NOTES:**

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE B OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

LEGEND

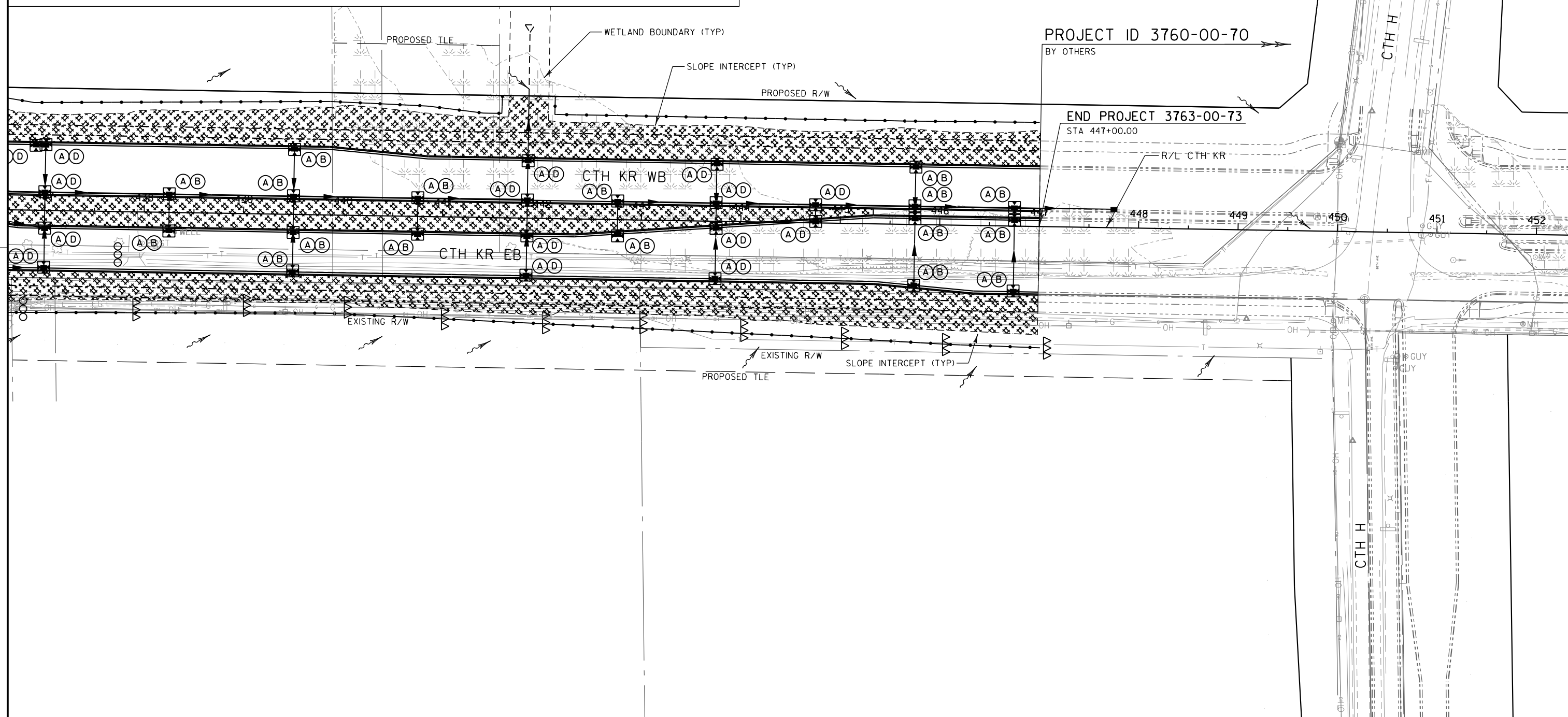
#####	EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40		TRACKING PAD
	SLOPE INTERCEPT		TEMPORARY DITCH CHECK
	INLET PROTECTION TYPE A		TEMPORARY STONE DITCH CHECK
	INLET PROTECTION TYPE B		CULVERT PIPE CHECK
	INLET PROTECTION TYPE D		WETLAND BOUNDARY
	SURFACE WATER FLOW		SILT FENCE
			SILT FENCE HEAVY DUTY
			ASPHALTIC FLUME

NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE B OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

LEGEND

#####	EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40		TRACKING PAD
---	SLOPE INTERCEPT		TEMPORARY DITCH CHECK
	INLET PROTECTION TYPE A		TEMPORARY STONE DITCH CHECK
	INLET PROTECTION TYPE B		CULVERT PIPE CHECK
	INLET PROTECTION TYPE D		WETLAND BOUNDARY
	SURFACE WATER FLOW		SILT FENCE
			SILT FENCE HEAVY DUTY
			ASPHALTIC FLUME



PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

EROSION CONTROL PLAN

SHEET

E

GENERAL DRAINAGE NOTES

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

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

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

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

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

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

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

PROVIDE BOLTED COVERS FOR MANHOLE COVERS TYPE J SPECIAL. COST OF PROVIDING BOLTED COVERS IS CONSIDERED INCIDENTAL TO COVER.

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

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

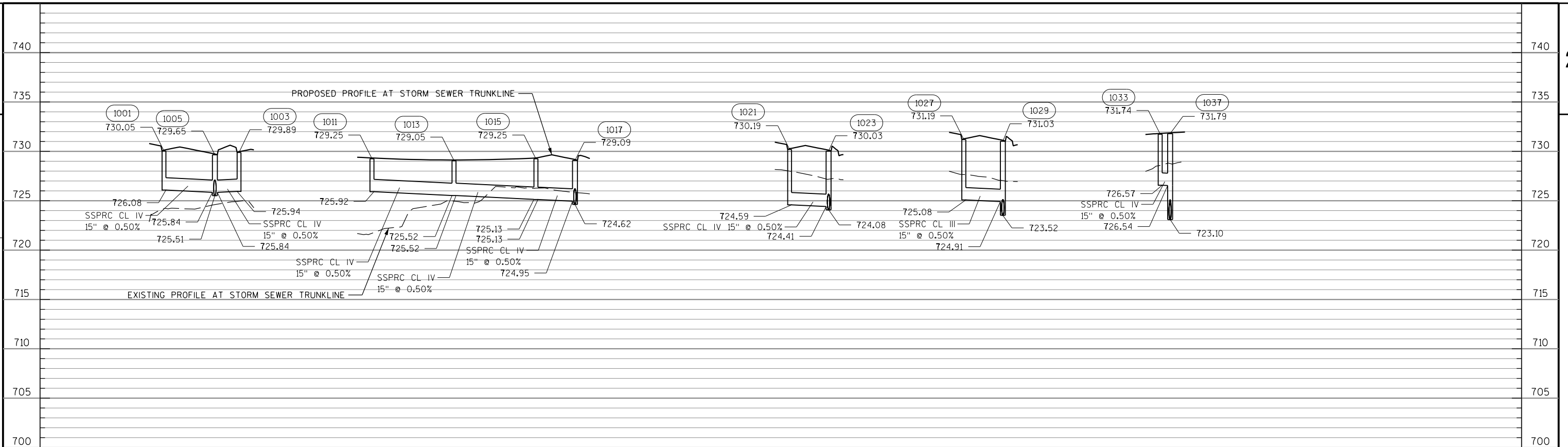
CONSTRUCTION AND REMOVAL OF TEMPORARY BULKHEAD IS CONSIDERED INCIDENTAL TO COST OF STORM SEWER PIPE OR STORM SEWER STRUCTURE WHEN A PIPE OR STRUCTURE IS CONSTRUCTED OR REMOVED IN MULTIPLE STAGES.

STORM SEWER PLAN & PROFILE NOTE:
PLAN VIEW HIGHLIGHTS CORRESPOND TO PROFILES SHOWN IN PROFILE BELOW PLAN VIEW (SAME SHEET). STORM SEWER STRUCTURES AND PIPES LABELED IN PLAN VIEW WITHOUT HIGHLIGHT ARE SHOWN ON THE NEXT PROFILE ONLY SHEET(S).

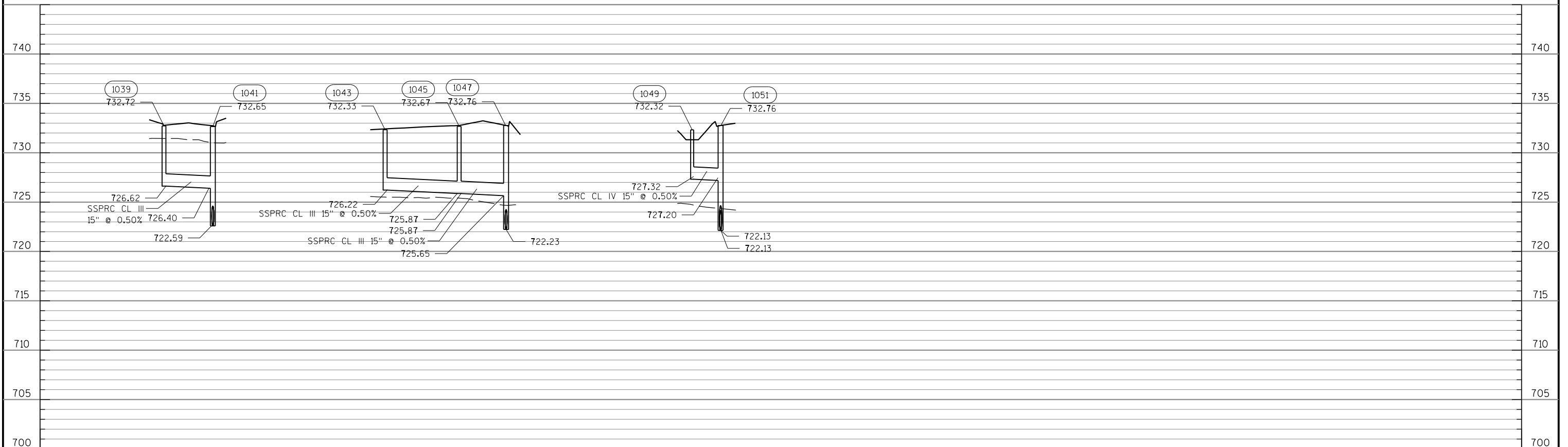
STORM SEWER LEGEND

-  PROPOSED STORM SEWER PIPE PLAN VIEW
-  EXISTING STORM SEWER PLAN VIEW
-  EXISTING STORM SEWER PROFILE VIEW
-  PROPOSED DRAINAGE STRUCTURE
-  EXISTING DRAINAGE STRUCTURE
-  PROPOSED MANHOLE
-  PROPOSED INLET
-  PROPOSED ENDWALL
-  PROPOSED STORM SEWER PIPE
-  EXISTING STORM SEWER PIPE

2



2 |



PROJECT NO: 2704-00-77

HWY: CTH KR

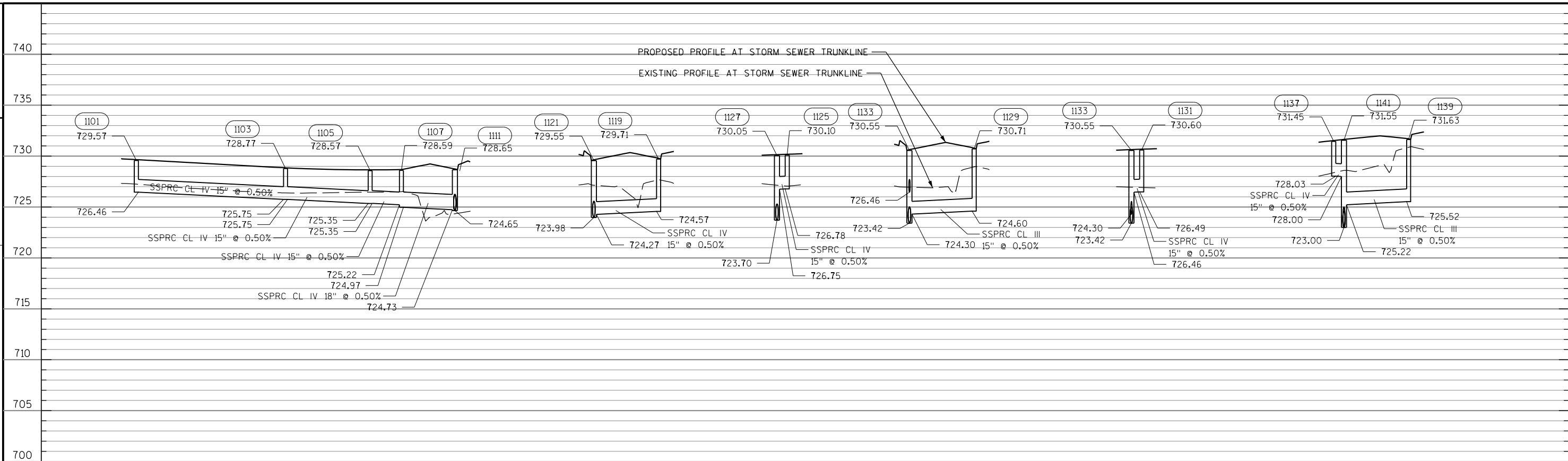
COUNTY: RACINE

STORM SEWER PLAN AND PROFILE: CTH KR

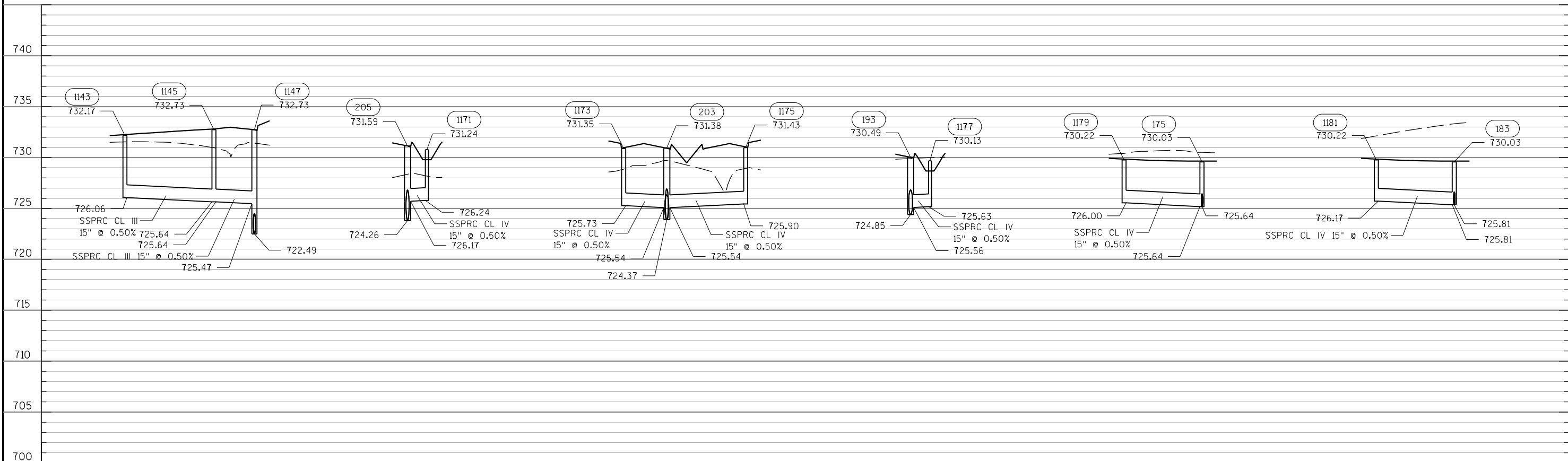
SHEET

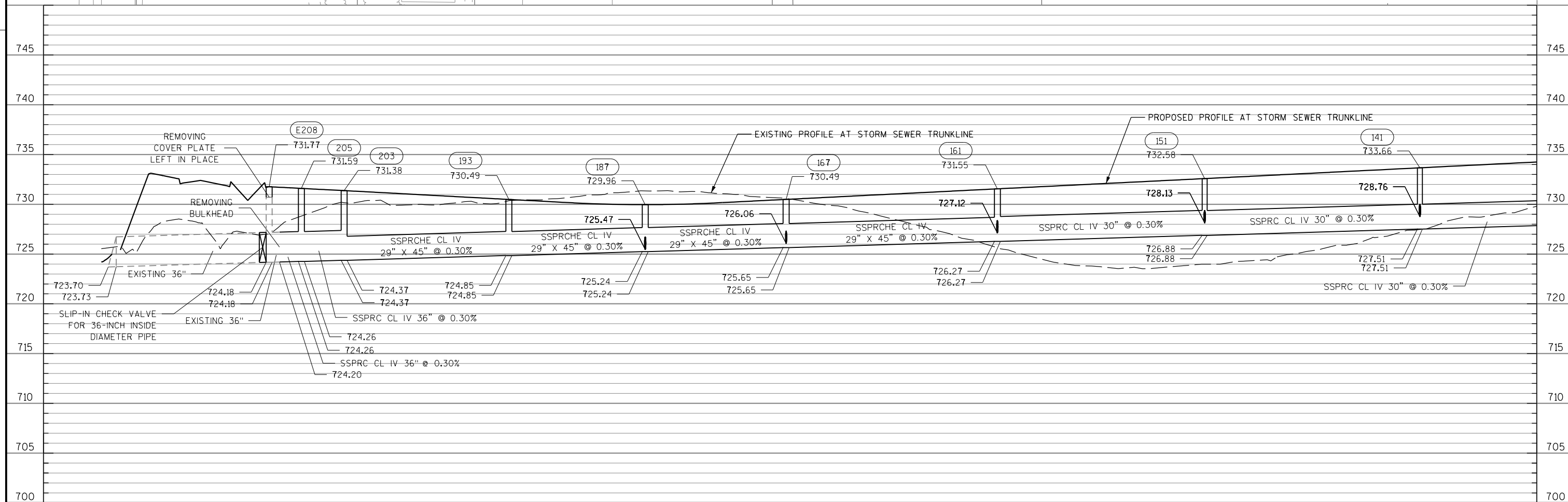
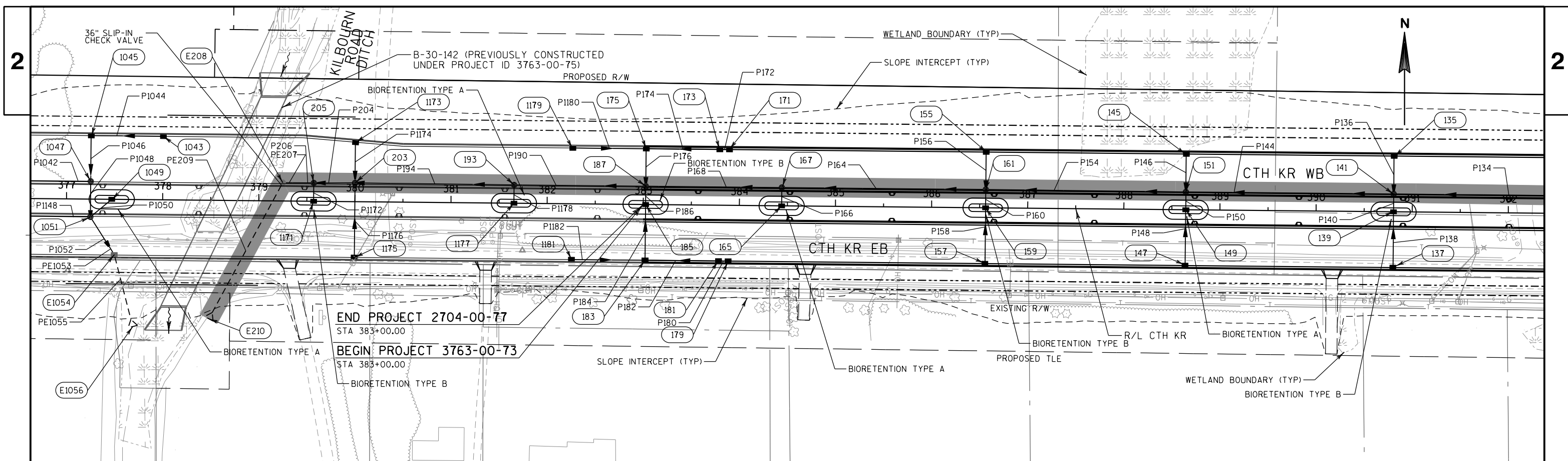
3

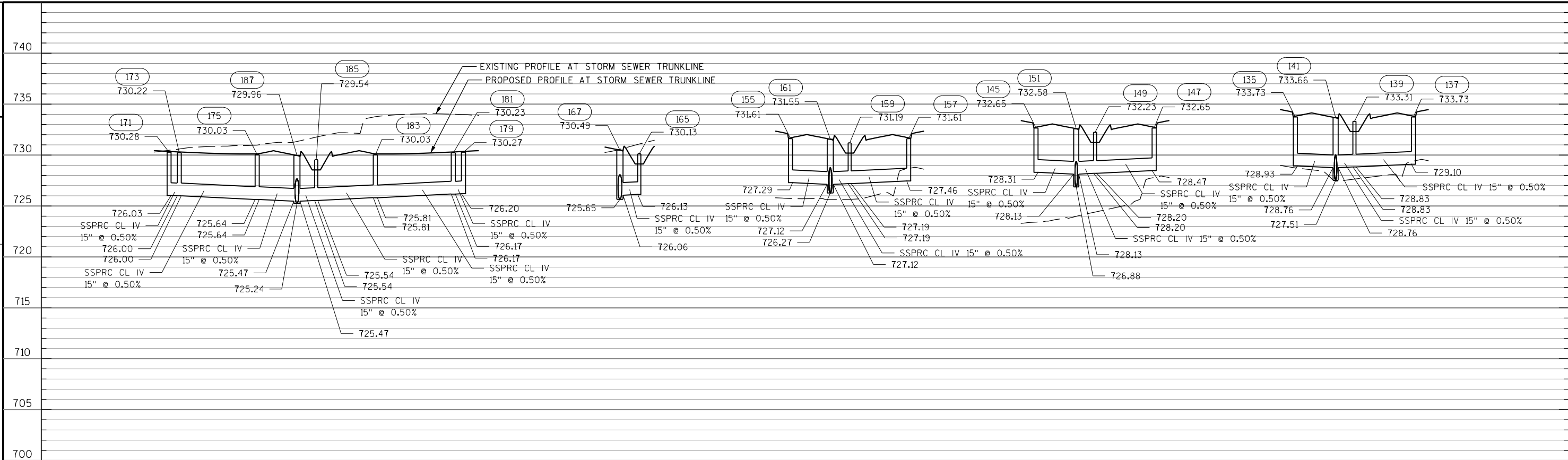
2



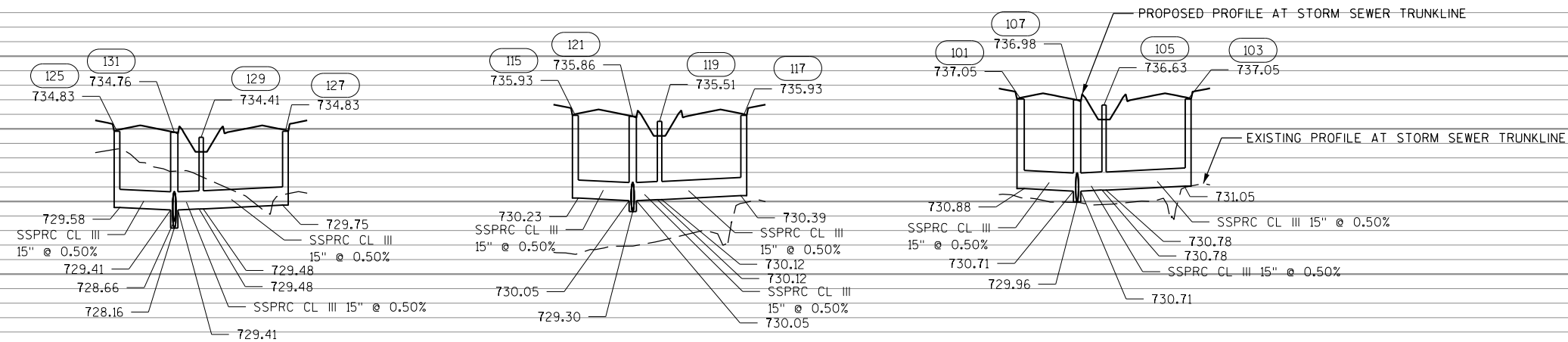
2



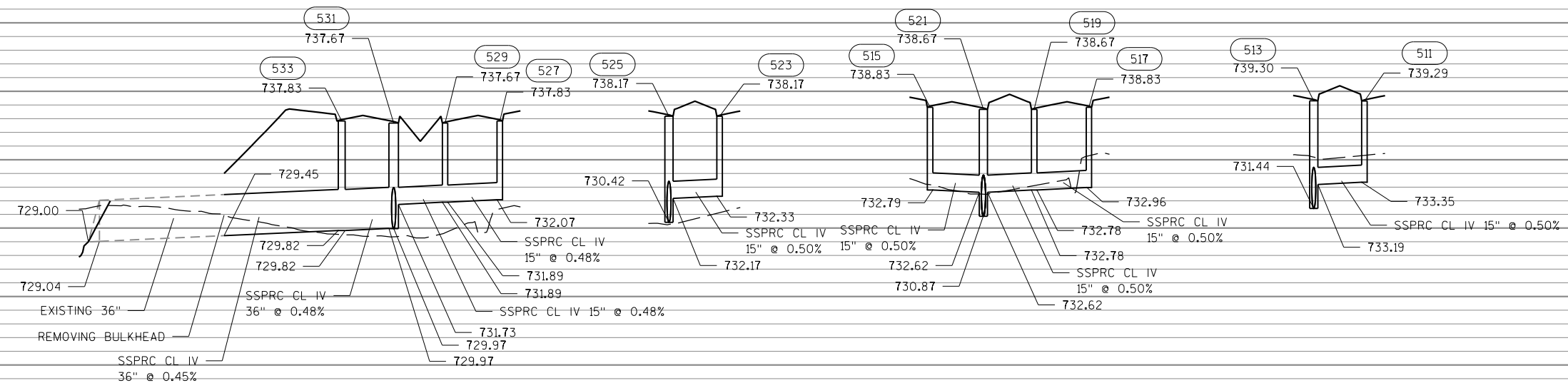




2



2 |



PROJECT NO: 3763-00-73

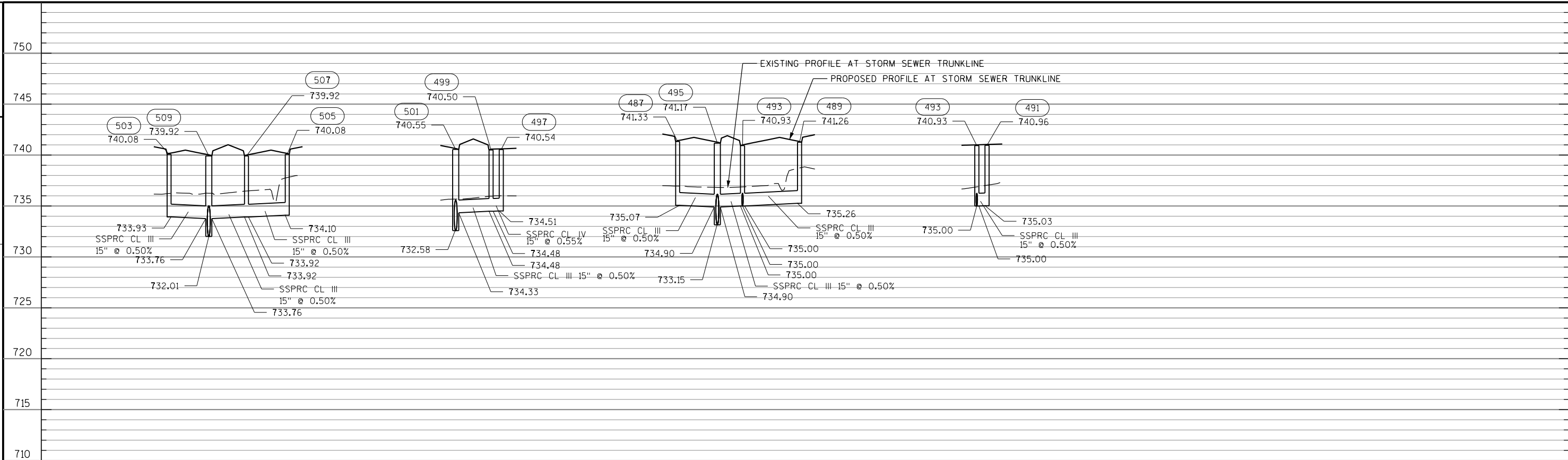
HWY: CTH KR

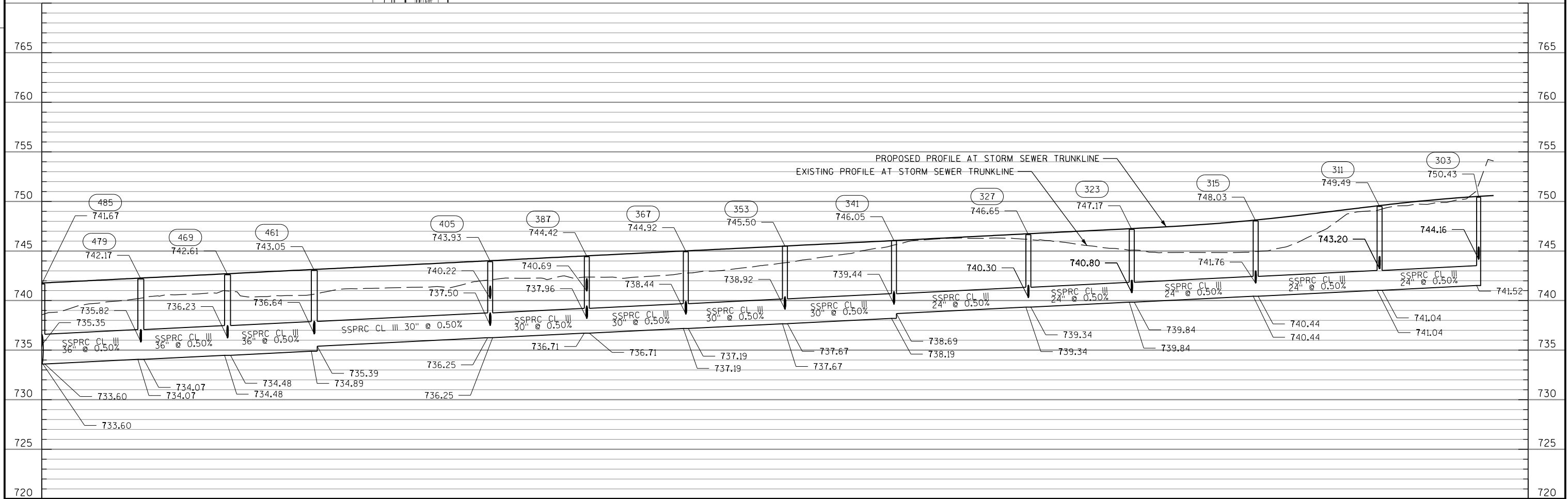
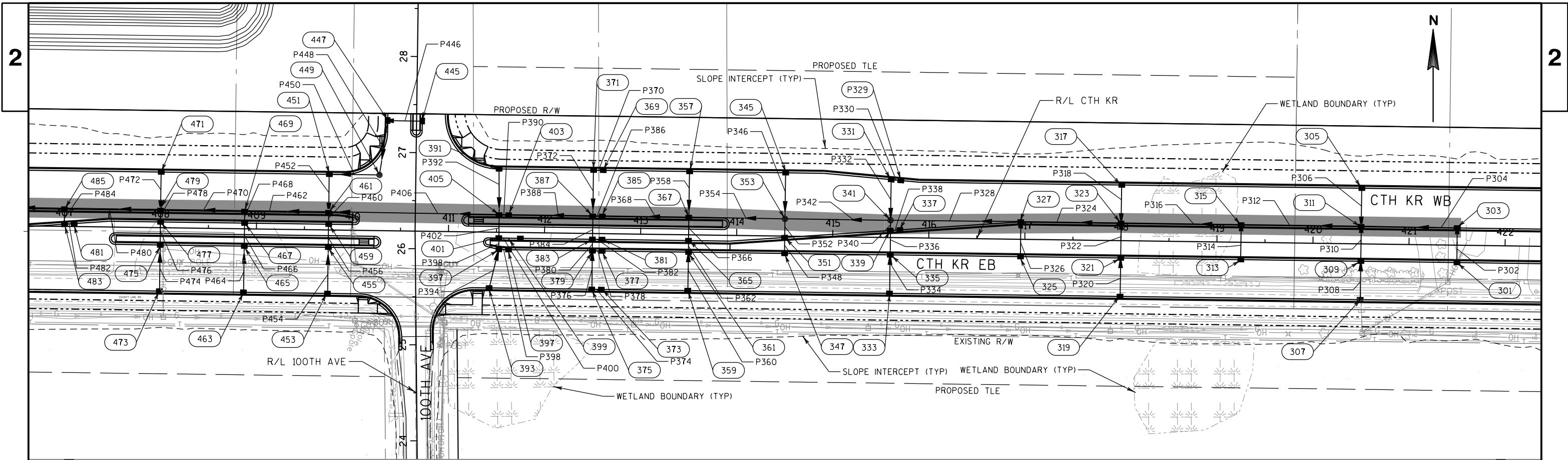
COUNTY: RACINE

STORM SEWER PLAN AND PROFILE: CTH KR

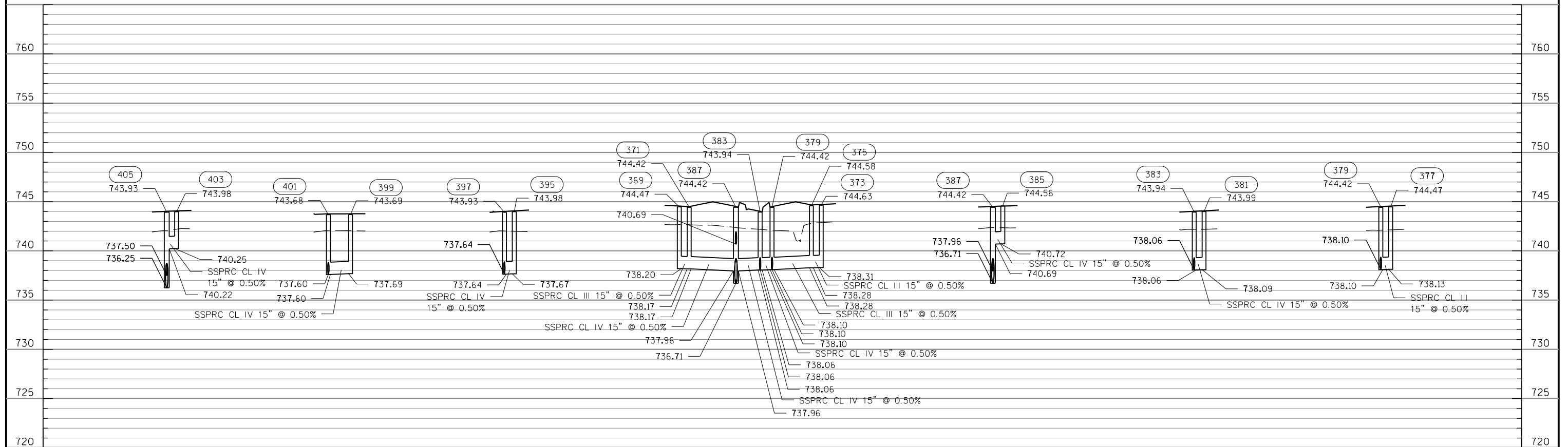
SHEET

3



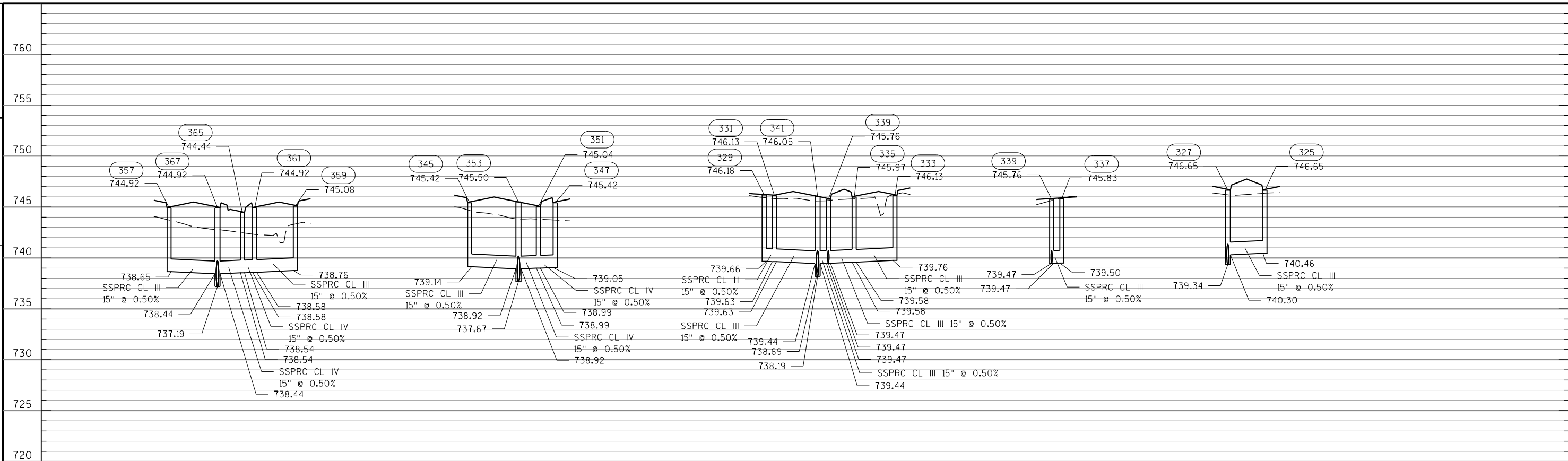


2

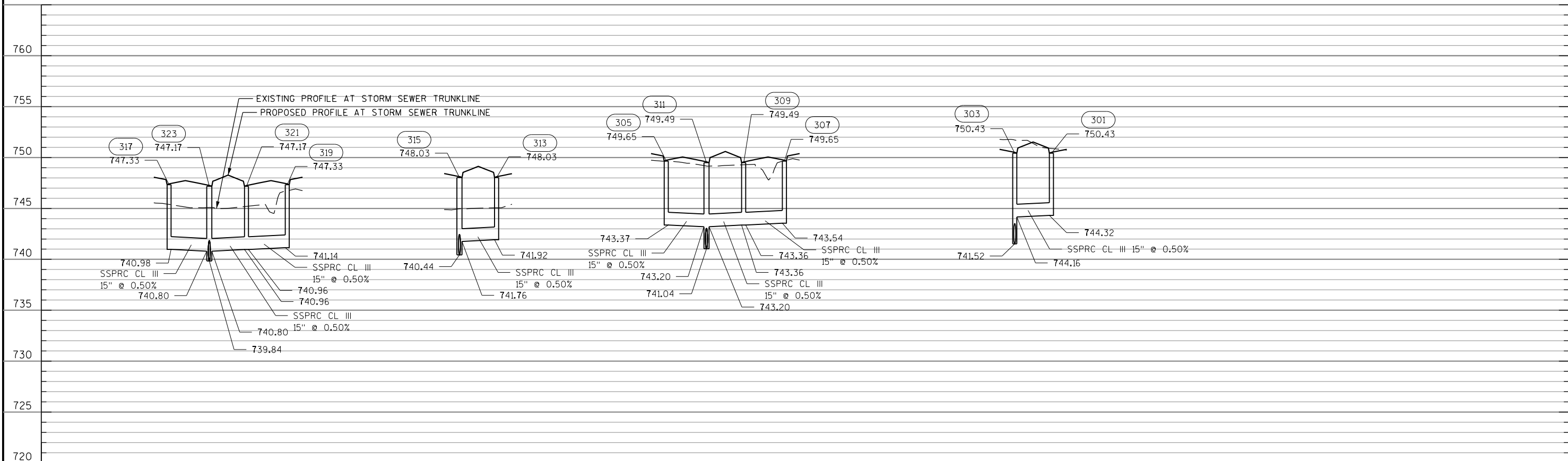


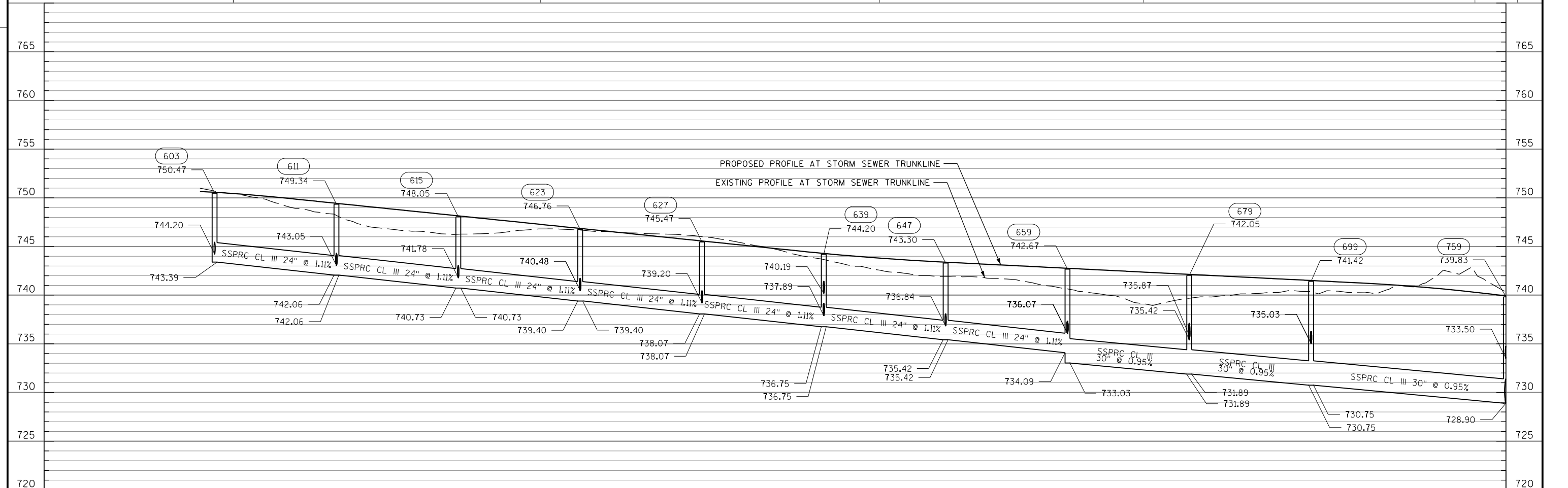
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\CTH KR\Plansheets\37630073\022504A_SS.dgn	PLOT DATE : 8/20/2018	PLOT BY : wwolrk	PLOT NAME :	PLOT SCALE : 1:100	WISDOT/CADD SHEET 41
---	-----------------------	------------------	-------------	--------------------	----------------------

2

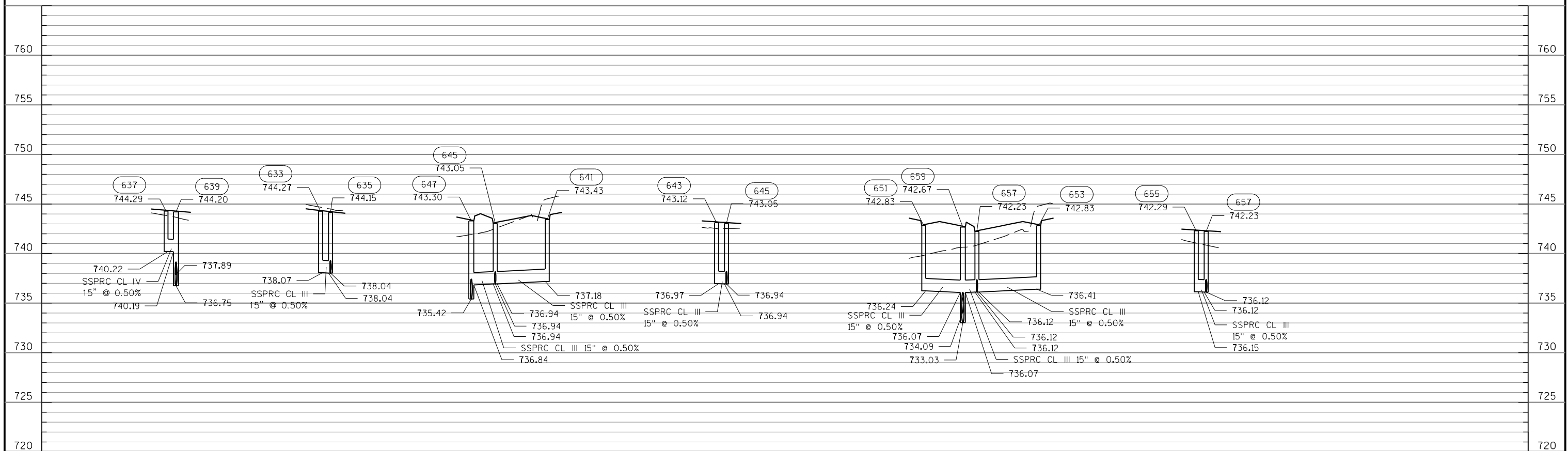
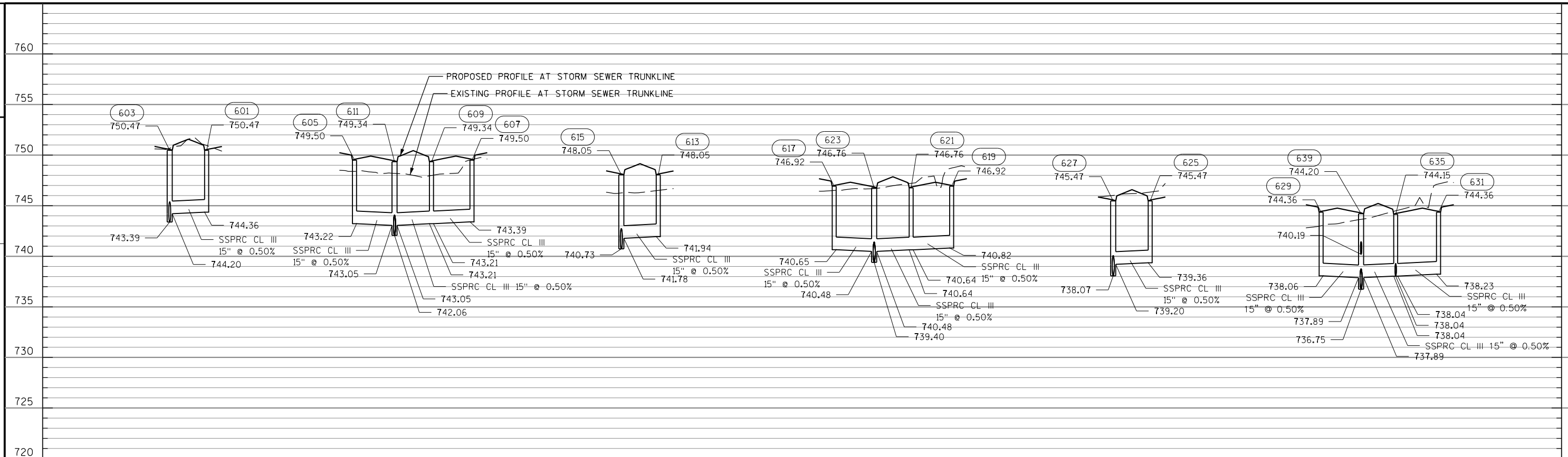


2

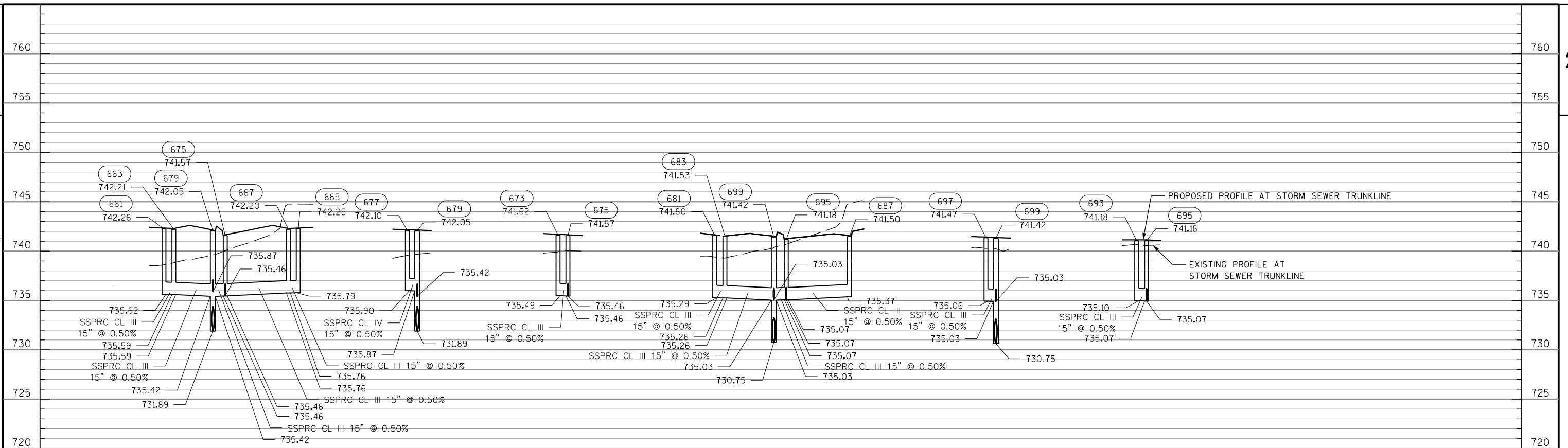




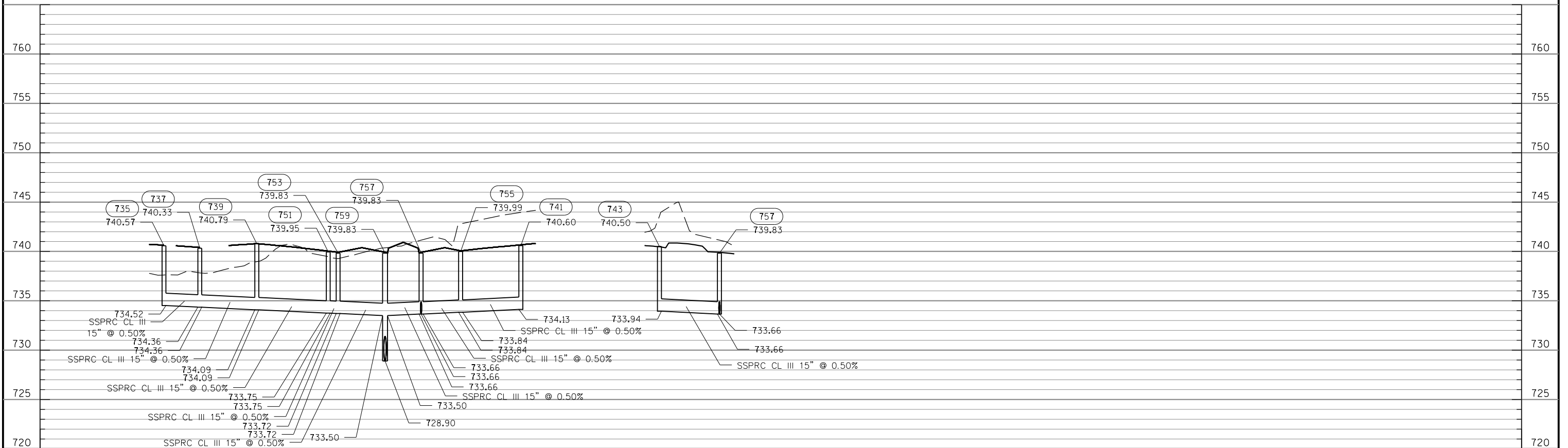
2



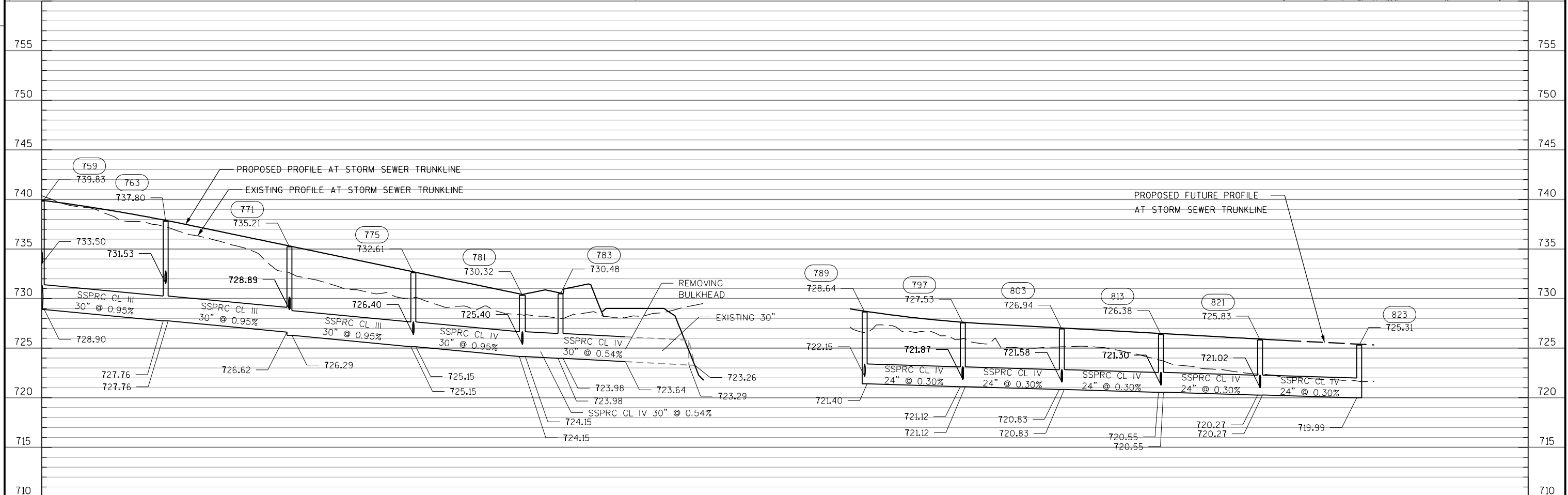
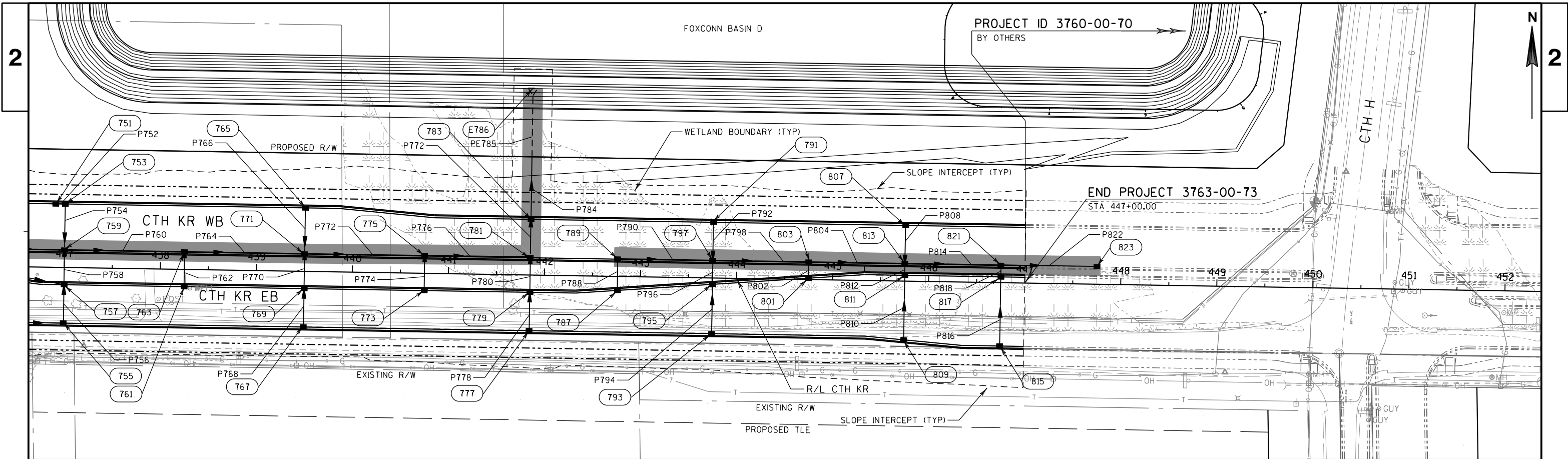
2



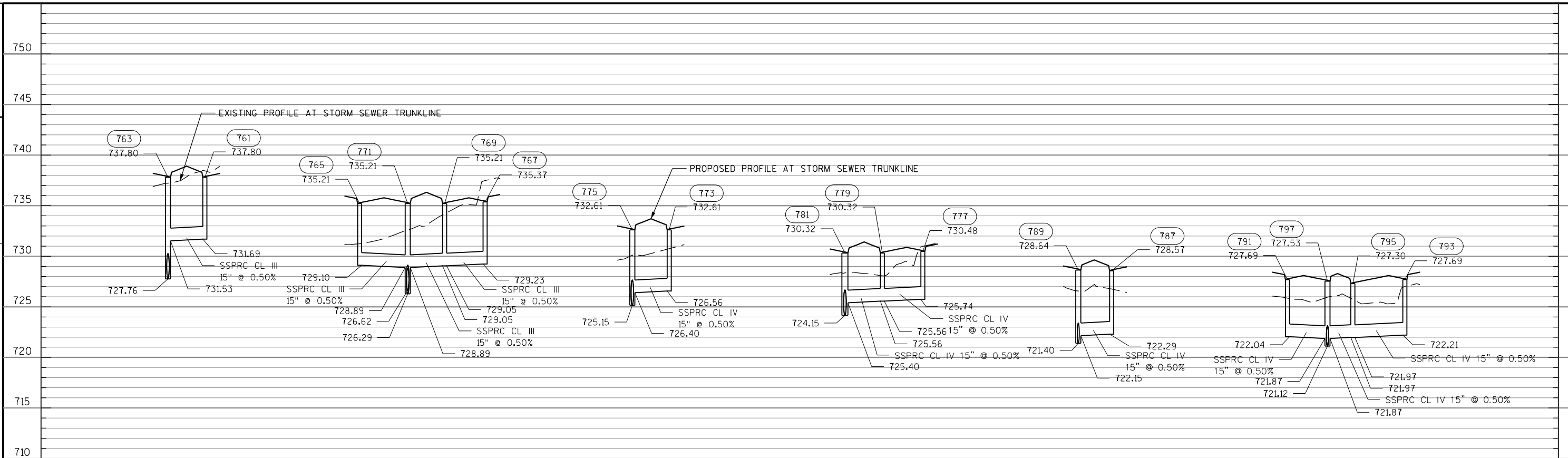
2 |



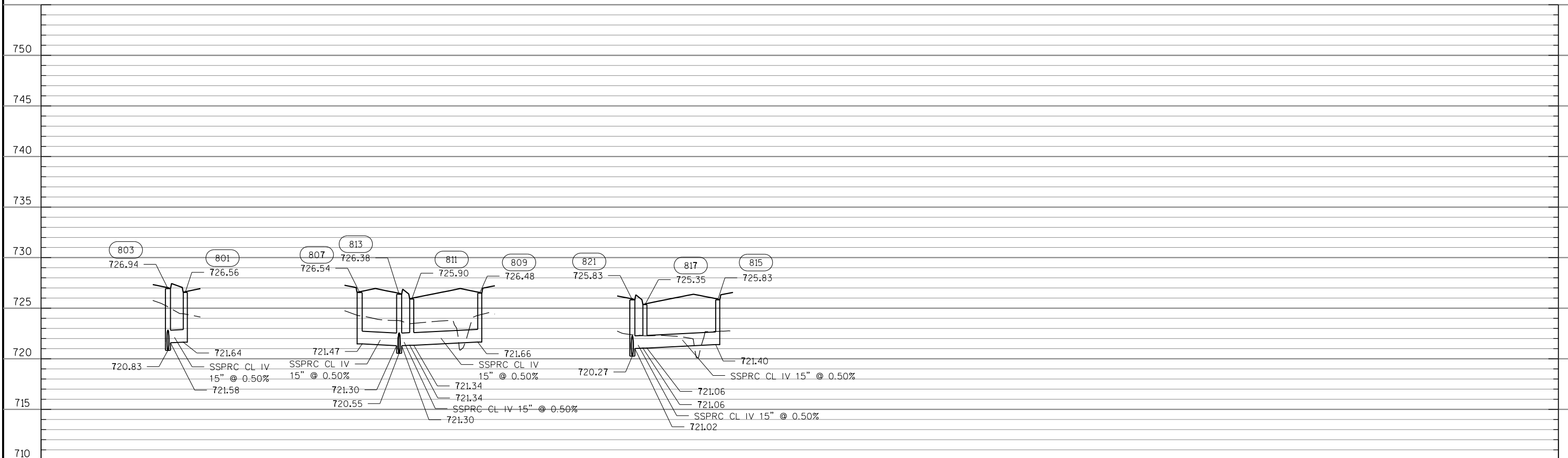
PROJECT NO: 3763-00-73	HWY: CTH KR	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: CTH KR	SHEET	E
------------------------	-------------	----------------	--------------------------------------	-------	----------



2



2 |



PROJECT NO: 3763-00-73

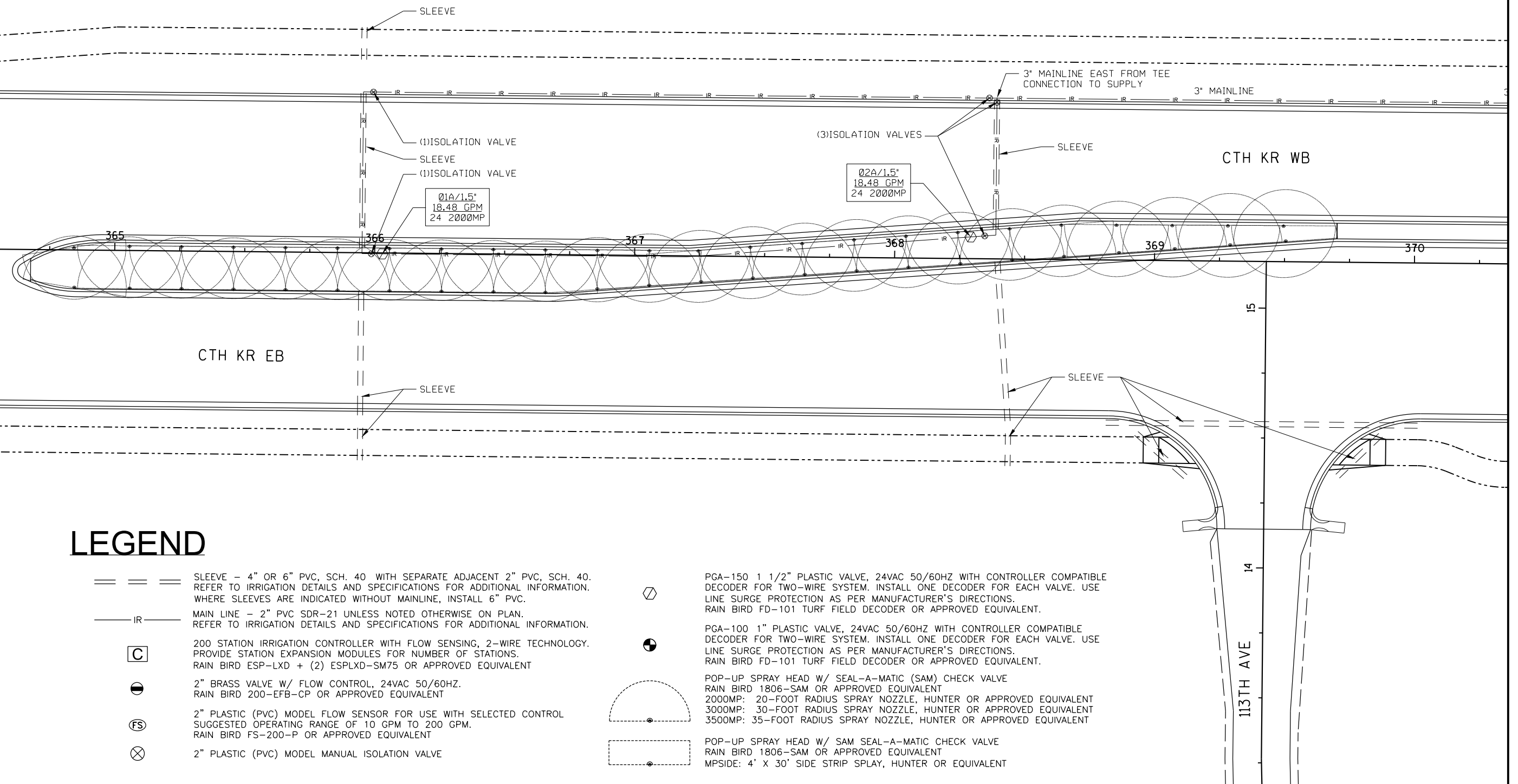
HWY: CTH KR

COUNTY: RACINE

STORM SEWER PLAN AND PROFILE: CTH KR

SHEET

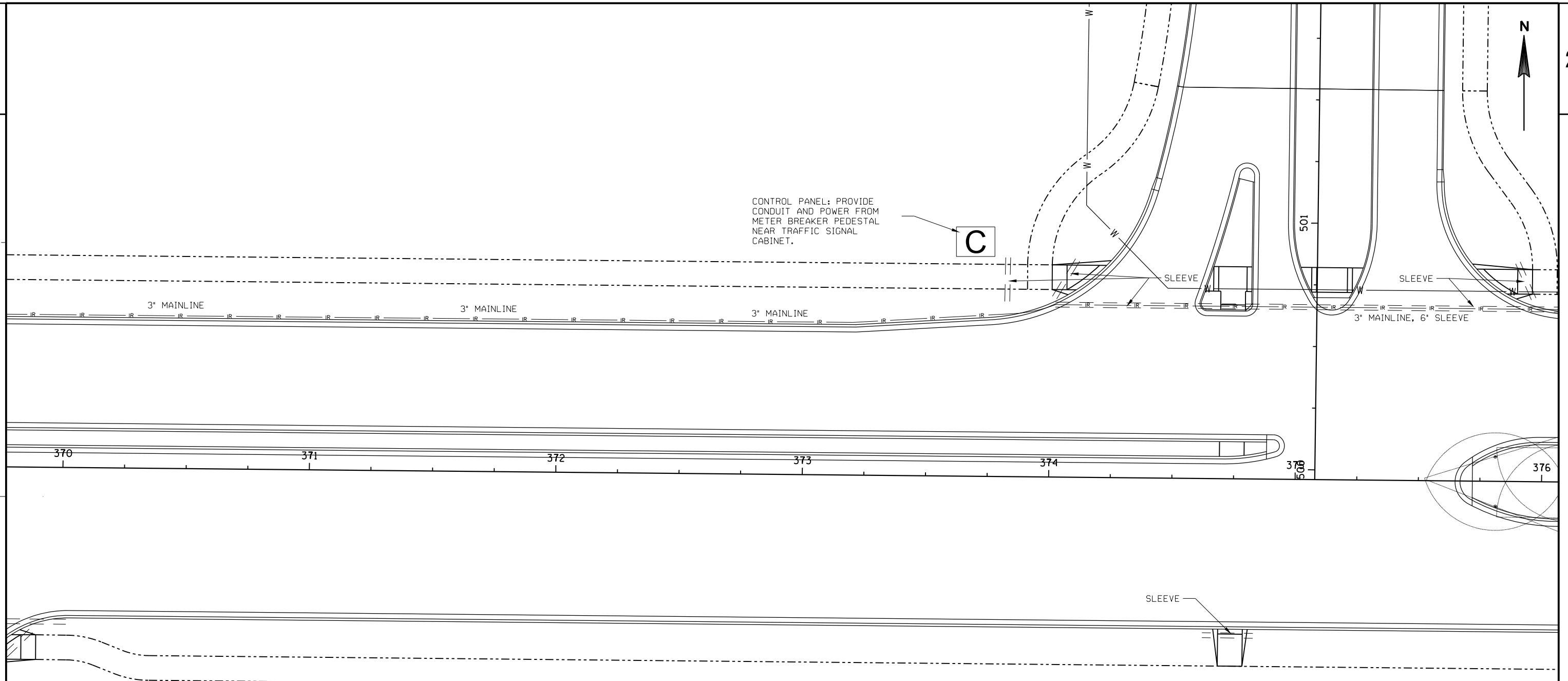
3



LEGEND

- == == == SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.
- IR — MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C** 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT
- FS** 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT
- FS** 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT
- X** 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

- PGA-150** 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- PGA-100** 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE**
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
- POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE**
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



LEGEND

- == == SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.
- IR — MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C** 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT
- ⊖ 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT
- Ⓢ 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT
- ⊗ 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE



PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.



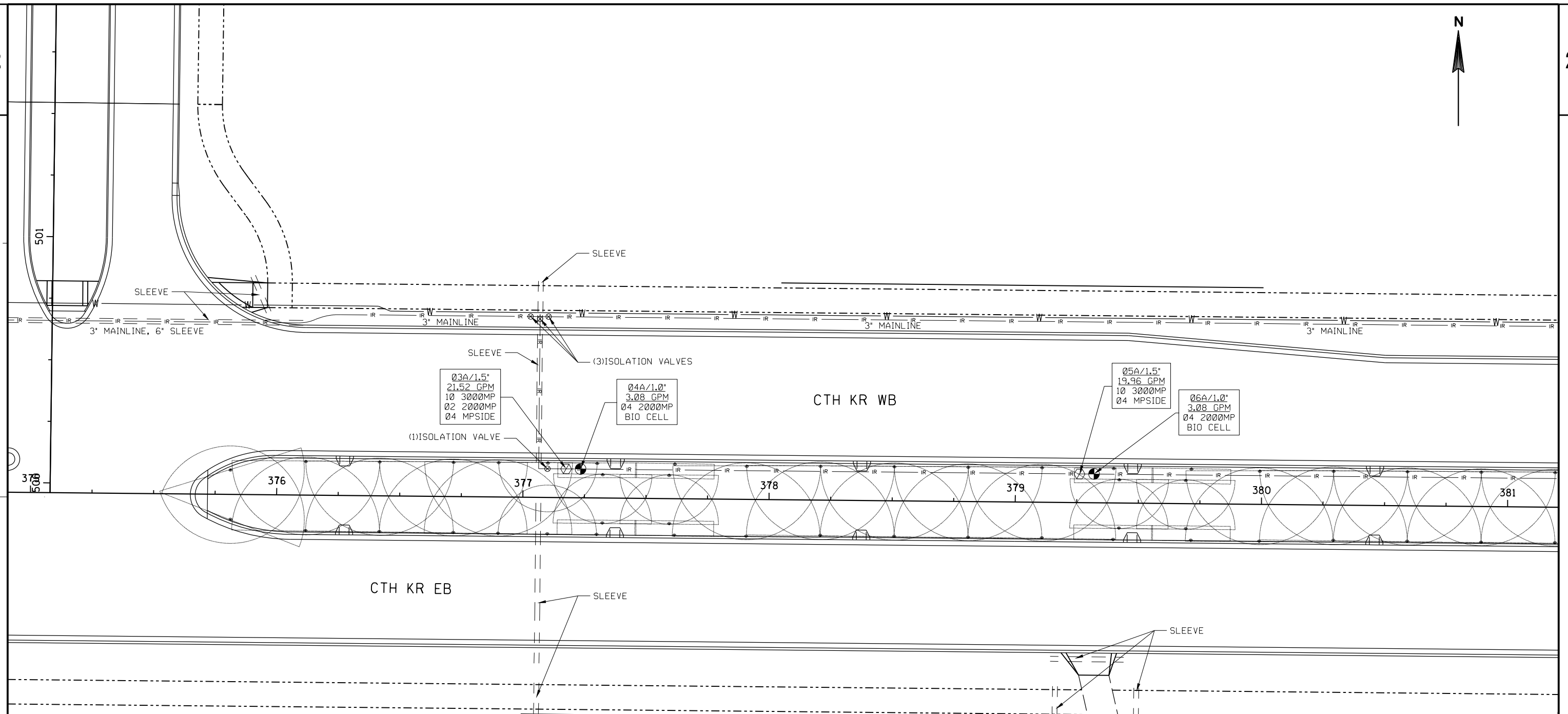
PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.



POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT



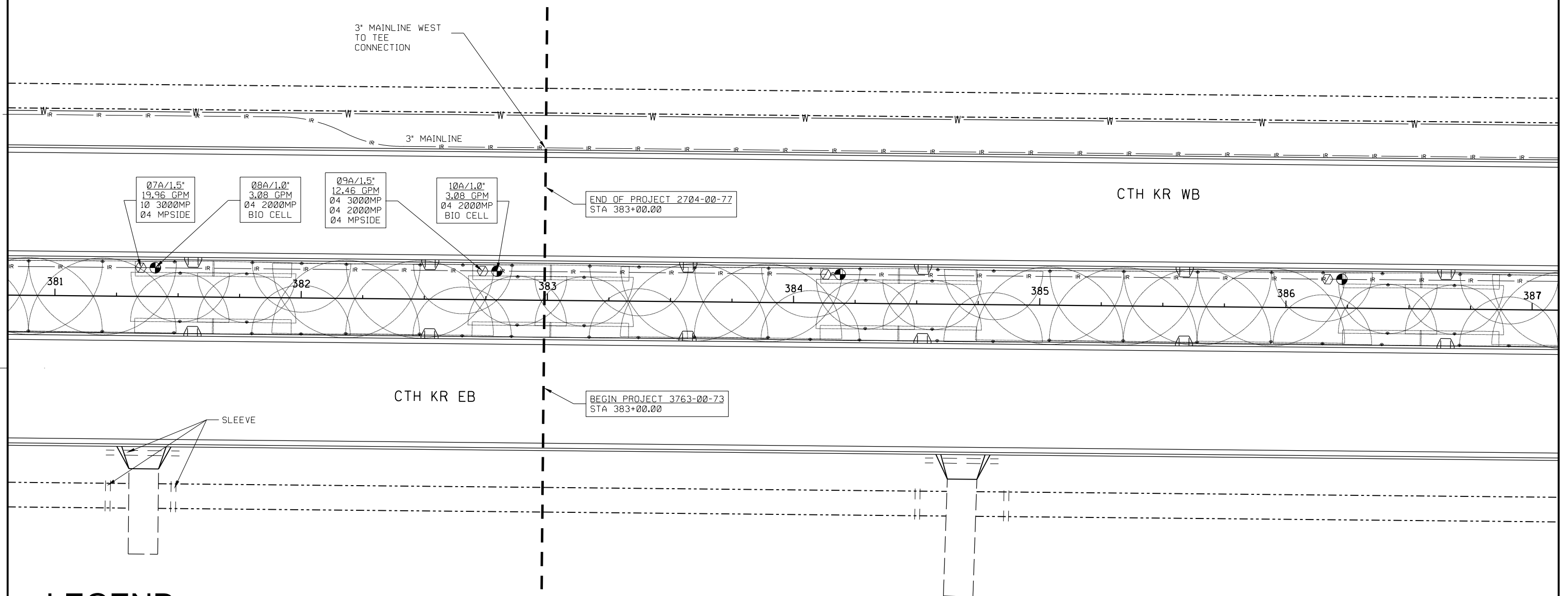
POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



LEGEND

- == == SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.
- IR — MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C** 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT
- 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT
- (FS)** 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT
- ⊗** 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

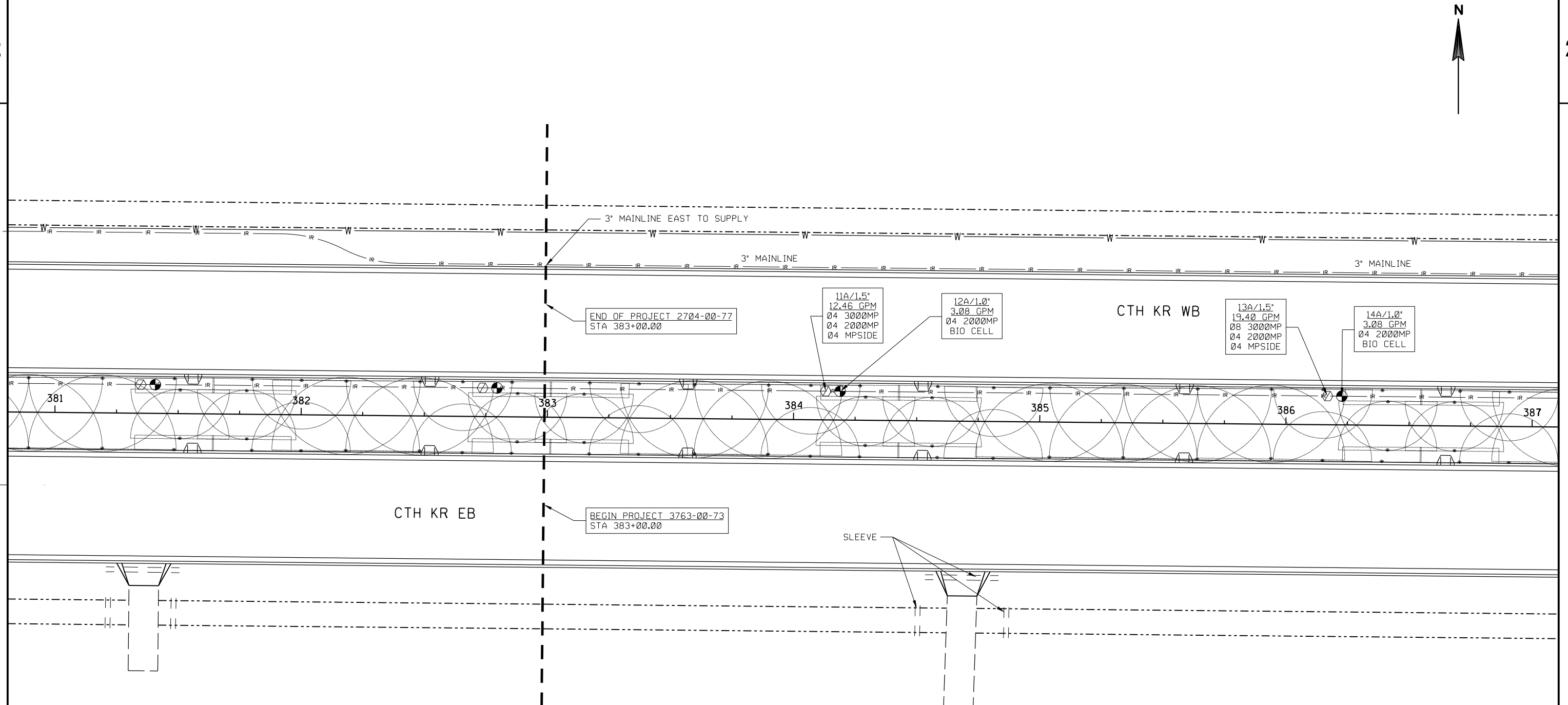
- ◇** PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⌢** POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
- ⌢** POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



LEGEND

- == == == SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.
- IR — MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C** 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT
- ⊖** 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT
- FS** 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT
- ⊗** 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

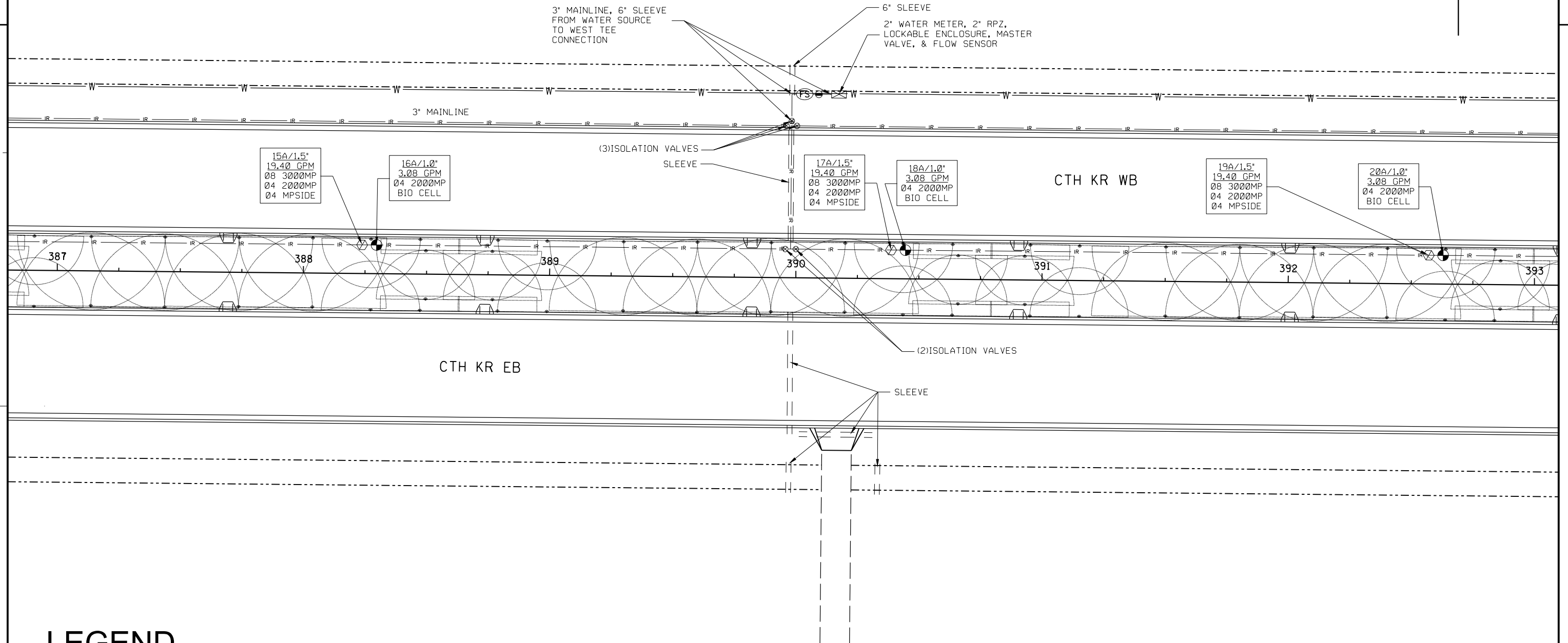
- ⬡** PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⊙** PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⬢** POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
- ⬢** POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



LEGEND

- == == == SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.
- IR — MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT
- 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT
- 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT
- 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

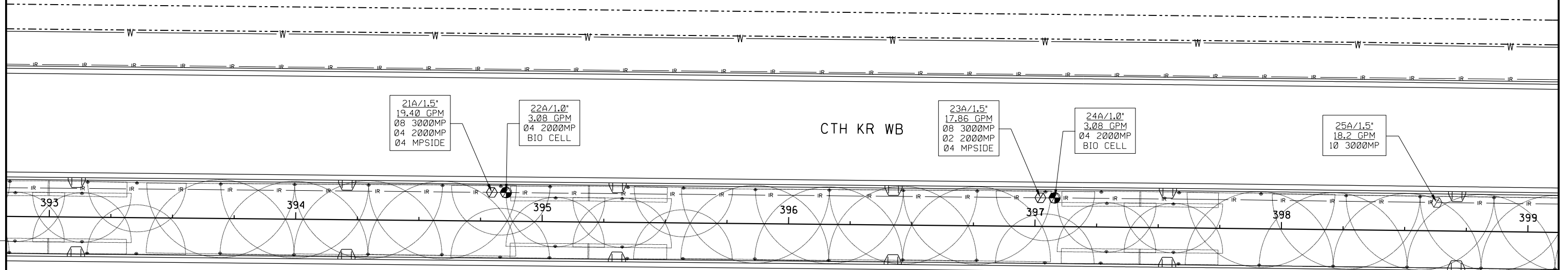
- PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE. RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT.
- 2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT.
- 3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT.
- 3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT.
- POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE. RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT.
- MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



LEGEND

- == == == SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.
- IR — MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C** 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT
- ⊖ 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT
- FS 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT
- ⊗ 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

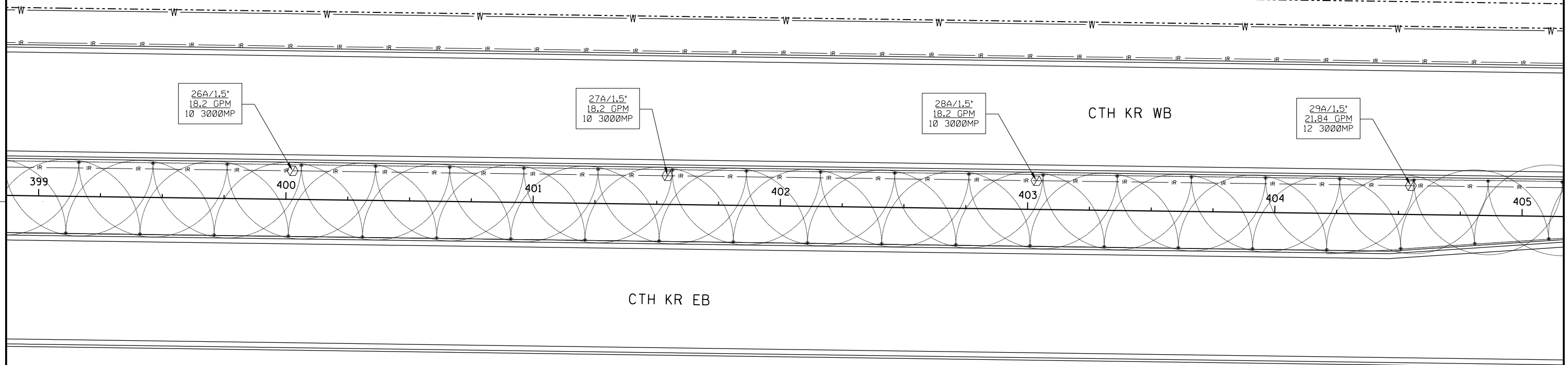
- ⬡ PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⬢ PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⬤ POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
- ⬤ POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



CTH KR EB

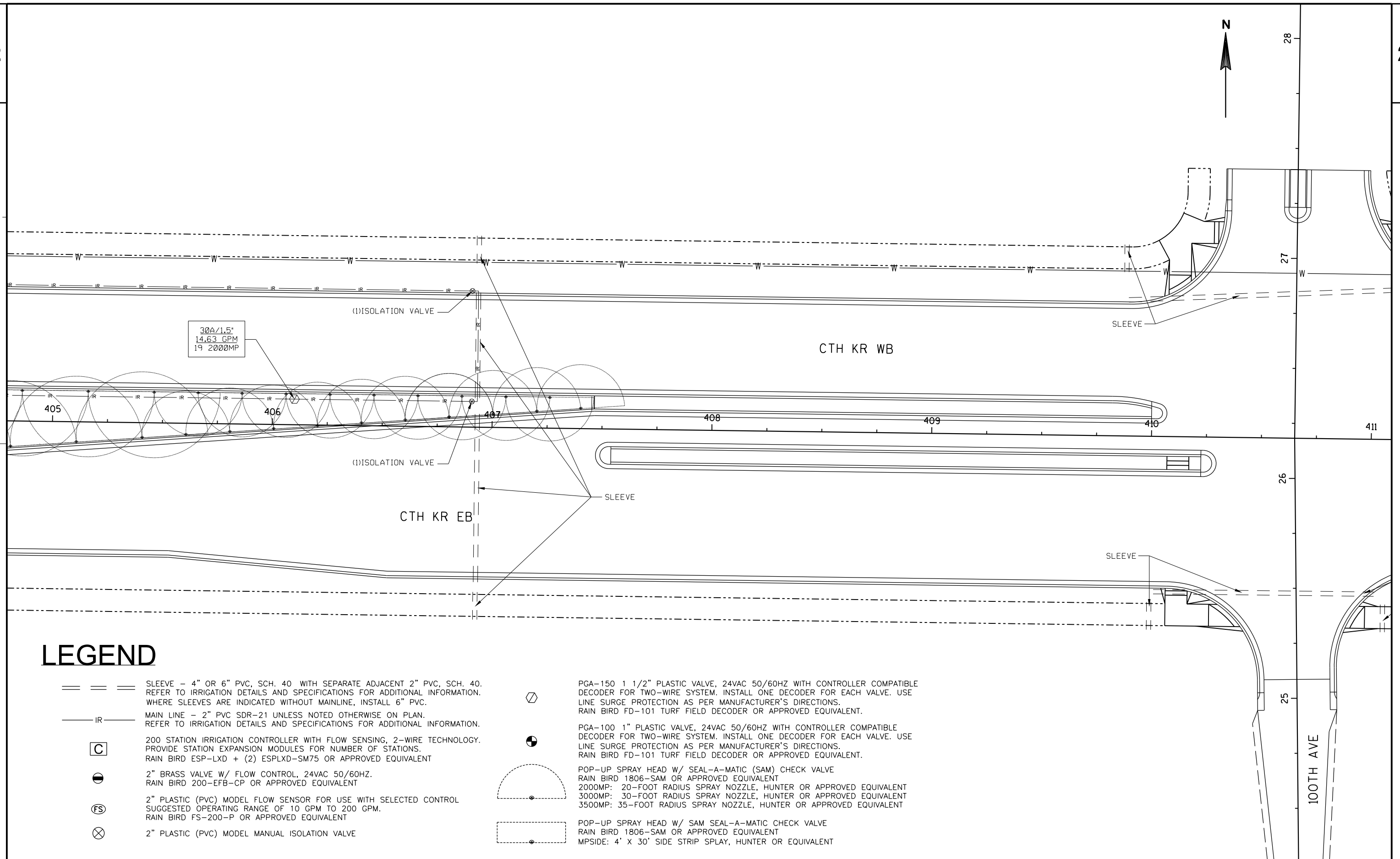
LEGEND

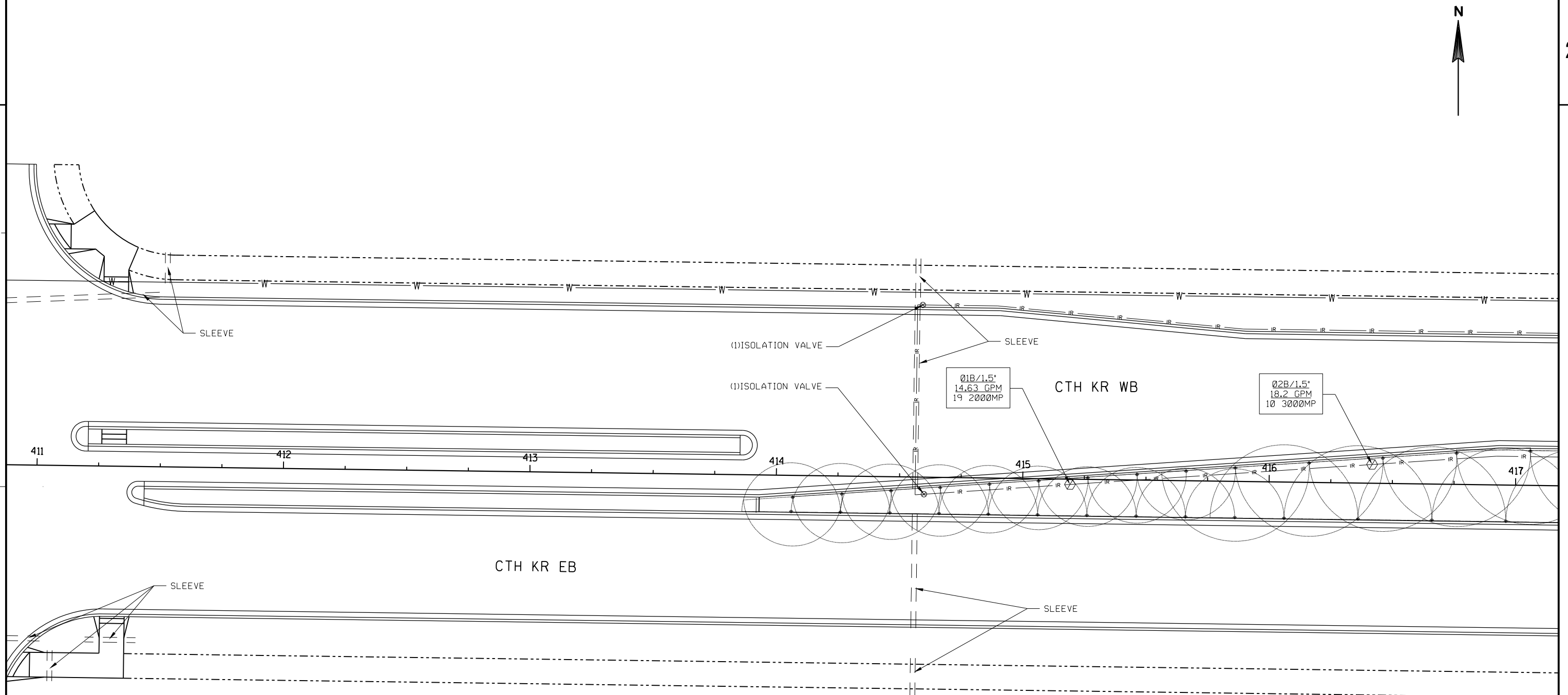
	SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.		PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
	MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.		PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
	200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT		POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT 2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT 3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT 3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
	2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT		POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT
	2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT		
	2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE		



LEGEND

- | | | | |
|--|---|--|--|
| | SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC. | | PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT. |
| | MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. | | PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT. |
| | 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT | | POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT |
| | 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT | | POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT |
| | 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT | | |
| | 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE | | |

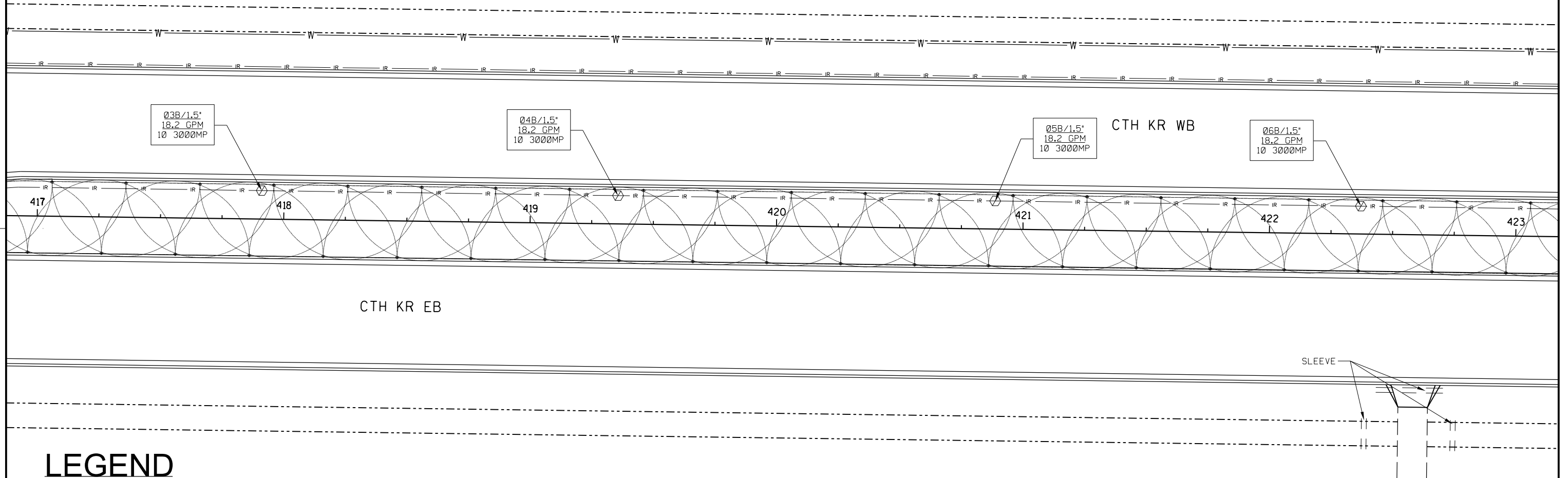




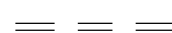
LEGEND

- == == SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.
- IR — MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C** 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT
- 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT
- Ⓢ 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT
- ⊗ 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

- ⬡ PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⬢ PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⬤ POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
- ⬤ POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



LEGEND



SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.



MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT



2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT



2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT



2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE



PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.



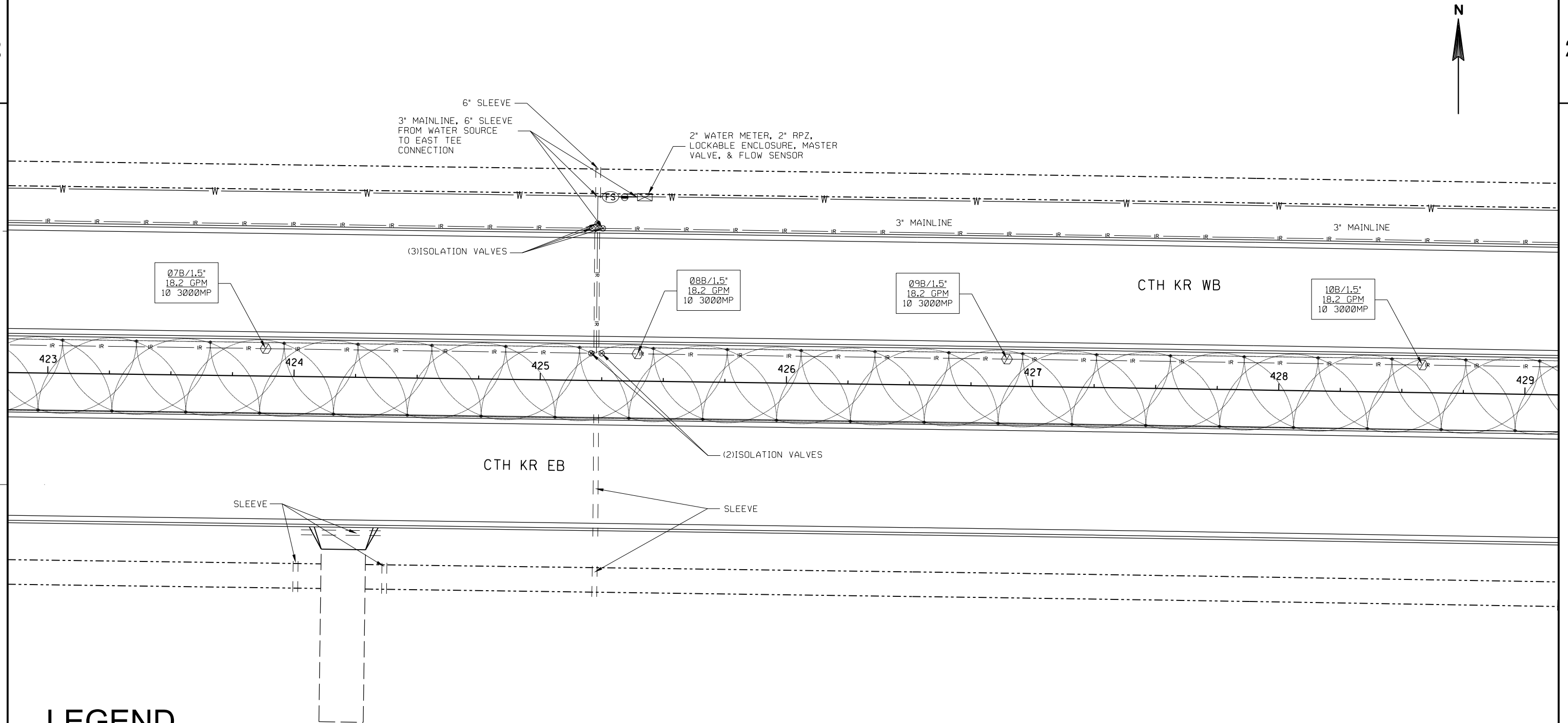
PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.



POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT



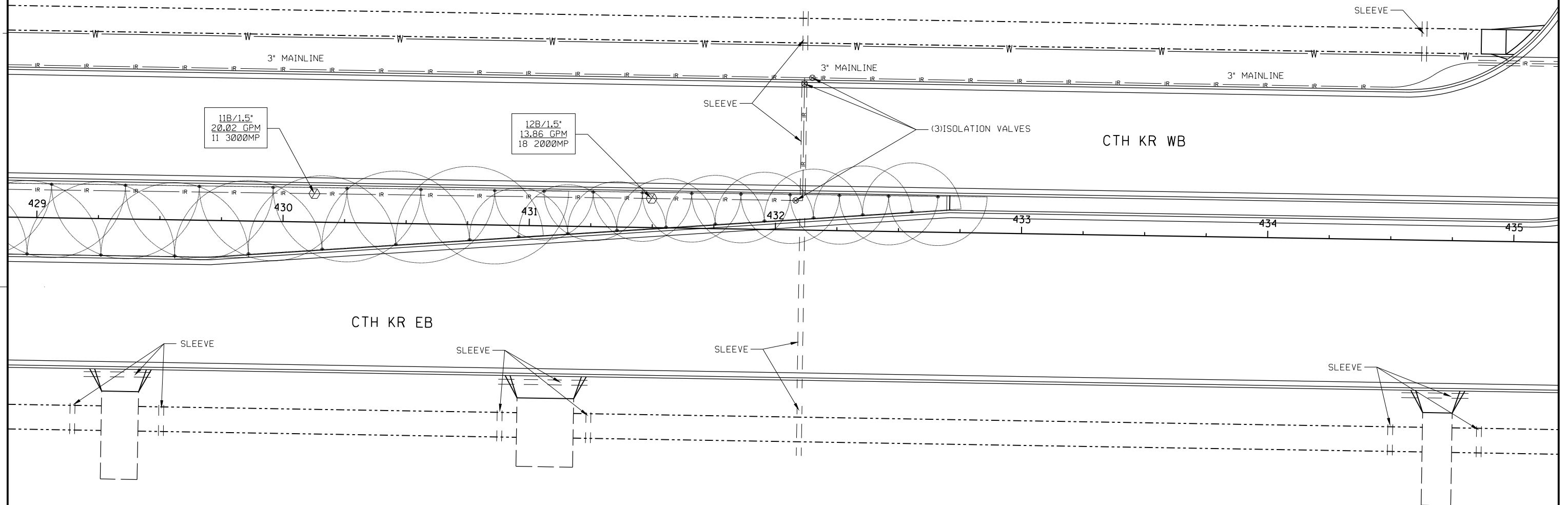
POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



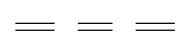
LEGEND

- — — SLEEVE — 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.
- IR — MAIN LINE — 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C** 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT
- 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT
- FS 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT
- ⊗ 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

- ⬡ PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⬢ PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⬤ POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
- ⬤ POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



LEGEND



SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.



MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT



2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT



2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT



2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE



PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.



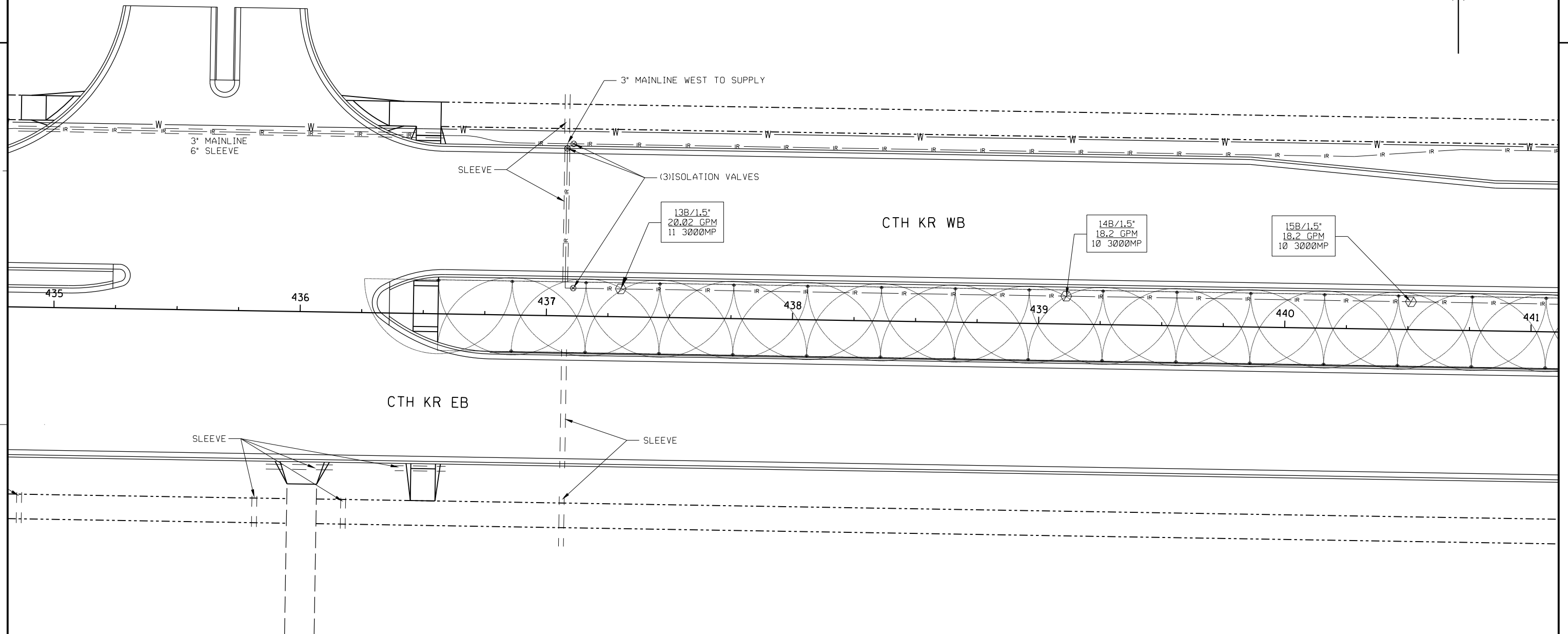
PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.



POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT



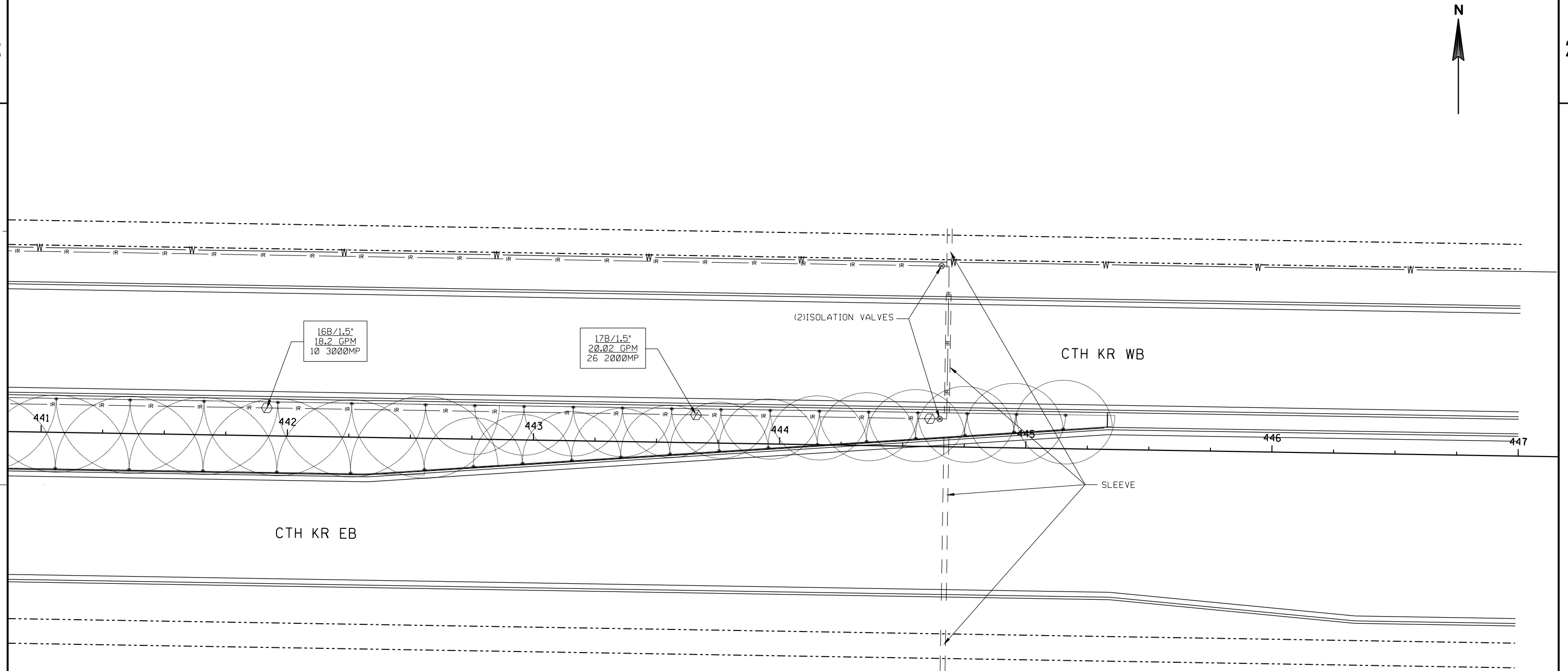
POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



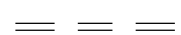
LEGEND

- == == SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.
- IR — MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C** 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT
- 2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT
- (FS) 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT
- ⊗ 2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

- ⬡ PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⬢ PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.
- ⬤ POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
- ⬤ POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT



LEGEND



SLEEVE - 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.



MAIN LINE - 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT



2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT



2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL. SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT



2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE



PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.



PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

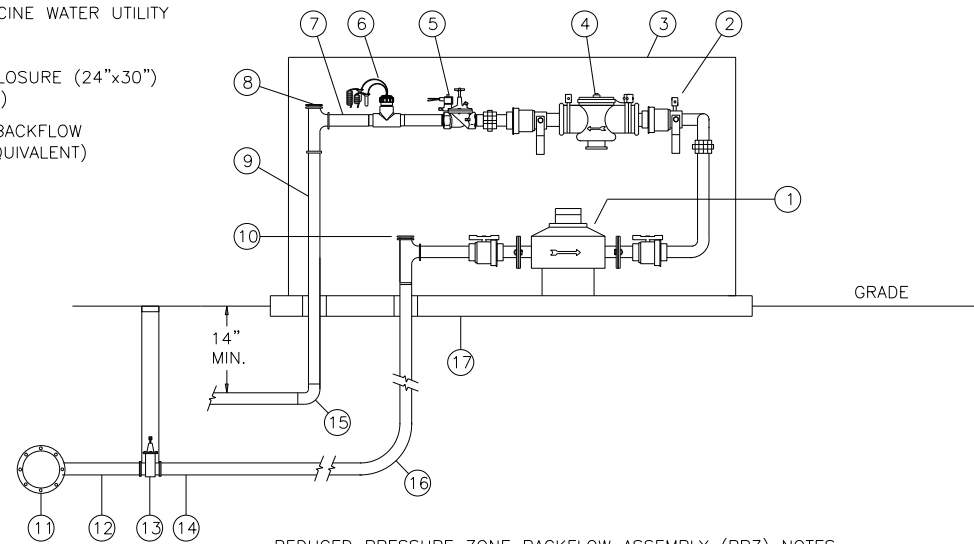


POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT



POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

- ① 2" WATER METER - COORIDANTE WITH RACINE WATER UTILITY
- ② 1-1/2" FULL FLOW BALL VALVE
- ③ BACKFLOW PREVENTER/WATER METER ENCLOSURE (24"x30") (WATERTRONICS OR APPROVED EQUIVALENT)
- ④ RPZ: 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (WATTS 009 OR APPROVED EQUIVALENT)
- ⑤ 2" MASTER VALVE
- ⑥ 2" FLOW SENSOR
- ⑦ 2" PIPE
- ⑧ 1 1/2" BLOWOUT PLUG
- ⑨ 3" DROP PIPE
- ⑩ 2" SYPHON PLUG
- ⑪ EXISTING WATER MAIN
- ⑫ 2" WATER LATERAL TO CURB STOP VALVE (BY WATERMAIN UTILITY INSTALLER)
- ⑬ 2" SHUTOFF VALVE (BY WATERMAIN UTILITY INSTALLER)
- ⑭ 2" SHUTOFF VALVE (BY WATERMAIN UTILITY INSTALLER)
- ⑮ P.O.C. AFTER CURB STOP VALVE BY WATER/SEWER CONTRACTOR
- ⑯ 2" IRRIGATION MAINLINE, TRANSITION TO 3" AFTER 90° BEND WITH 2" TO 3" BUSHING
- ⑰ 2" WATER SERVICE- STUBBED A MINIMUM OF 2' ABOVE GRADE (INSTALLED BY WATER/SEWER CONTRACTOR)
- ⑱ CONCRETE PAD OVER GRAVEL BASE PER MANUFACTURERS SPECIFICATIONS

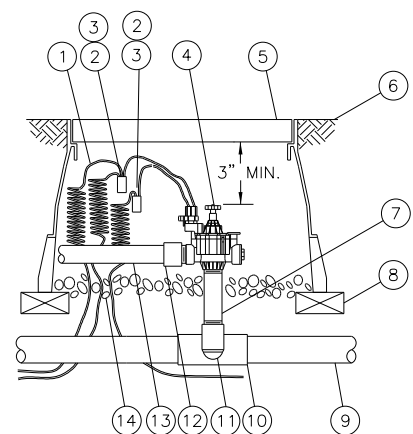


REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RPZ) NOTES:

1. EQUIPMENT TO BE WATTS SERIES 009/909 OR APPROVED EQUIVALENT
2. ONLY ONE RPZ IS REQUIRED TO SERVE EACH METER ASSEMBLY. INSTALL ENTIRE IRRIGATION SYSTEM (ON/OFF VALVES) DOWNSTREAM OF THE RPZ.
3. RPZ MUST BE INSTALLED A MINIMUM OF 12-INCHES ABOVE GROUND LEVEL.
4. RPZ MUST BE TESTED BY A STATE-CERTIFIED BACKFLOW ASSEMBLY TESTER AT TIME OF INSTALLATION, ANNUALLY, OR WHEN MOVED OR REPAIRED.
5. IN AN RPZ EQUIPPED SYSTEM, FERTILIZER AND OTHER AGRICULTURAL CHEMICALS MAY BE INTRODUCED DOWNSTREAM OF (AFTER) THE RPZ.
6. IRRIGATION SYSTEM TO BE ANTI-SIPHON, ANTI-BACKPRESSURE, MULTI-ZONE

WATER METER AND CROSS CONNECTION DETAIL

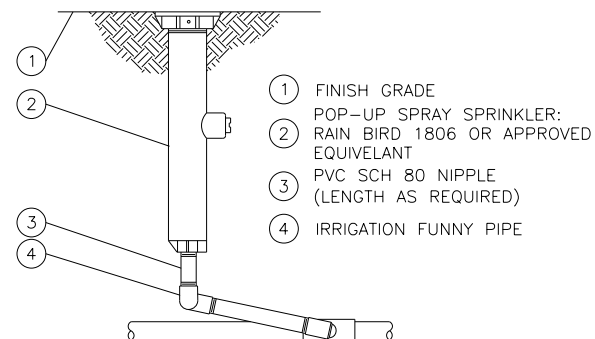
NOT TO SCALE



- ① 30-INCH LINEAR LENGTH OF WIRE, COILED
- ② WATERPROOF CONNECTION:
- ③ DECODER
- ④ REMOTE CONTROL VALVE: PGA
- ⑤ VALVE BOX WITH COVER:
- ⑥ FINISH GRADE/TOP OF MULCH
- ⑦ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- ⑧ BRICK (1 OF 4)
- ⑨ PVC MAINLINE PIPE
- ⑩ PVC SCH 40 TEE OR ELL
- ⑪ SCH 80 NIPPLE: (2-INCH LENGTH, HIDDEN & SCH 40 ELL)
- ⑫ PVC SCH 40 MALE ADAPTER
- ⑬ PVC LATERAL PIPE
- ⑭ 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

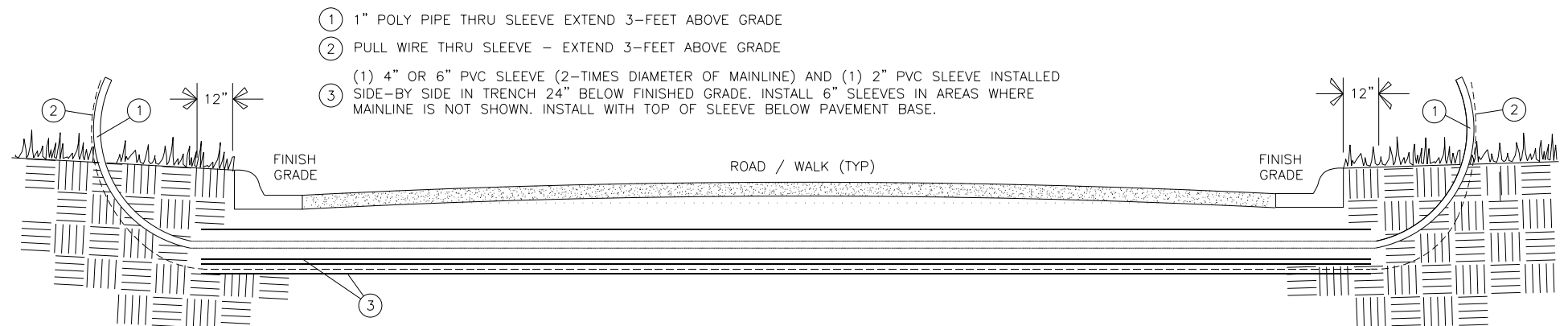
ELECTRIC REMOTE CONTROL PGA VALVE

NOT TO SCALE



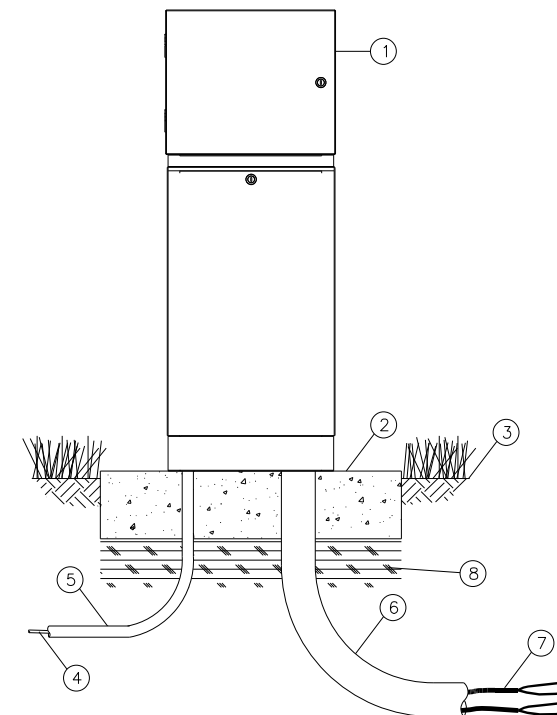
POP-UP SPRAY SPRINKLER

NOT TO SCALE



SLEEVING DETAIL

NOT TO SCALE



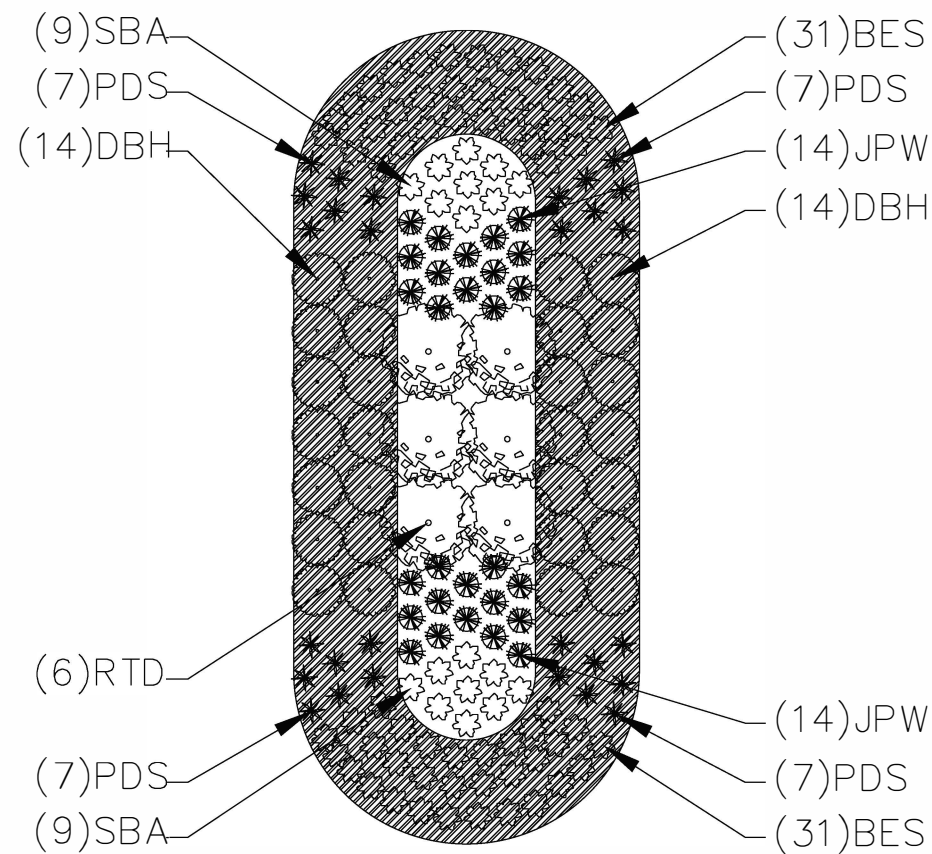
- ① TWO-WIRE DECODER CONTROLLER: TWO-WIRE DECODER (RAIN BIRD ESP-LXD OR APPROVED EQUIVALENT) CONTROLLER WITH STAINLESS STEEL METAL CABINET (RAIN BIRD LXMM OR APPROVED EQUIVALENT) AND STAINLESS STEEL METAL PEDESTAL (RAINBIRD LXMMPED OR APPROVED EQUIVALENT). INSTALL CONTROLLER, CABINET AND PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS.
- ② CONCRETE PAD: 6-INCH MINIMUM THICKNESS
- ③ FINISH GRADE
- ④ POWER SUPPLY WIRE
- ⑤ 1-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR POWER SUPPLY
- ⑥ 3-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR TWO-WIRE CABLE
- ⑦ MAXICABLE TWO-WIRE PATH TO DECODERS USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH.
- ⑧ COMPACTED SUBGRADE

NOTES:

1. PROVIDE EXPANSION MODULES TO ALLOW FOR THE MAXIMUM STATION CAPACITY TO ACCOMMODATE EXISTING SYSTEM AND FUTURE EXPANSION.
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

TWO-WIRE DECODER CONTROLLER IN STAINLESS STEEL PEDESTAL

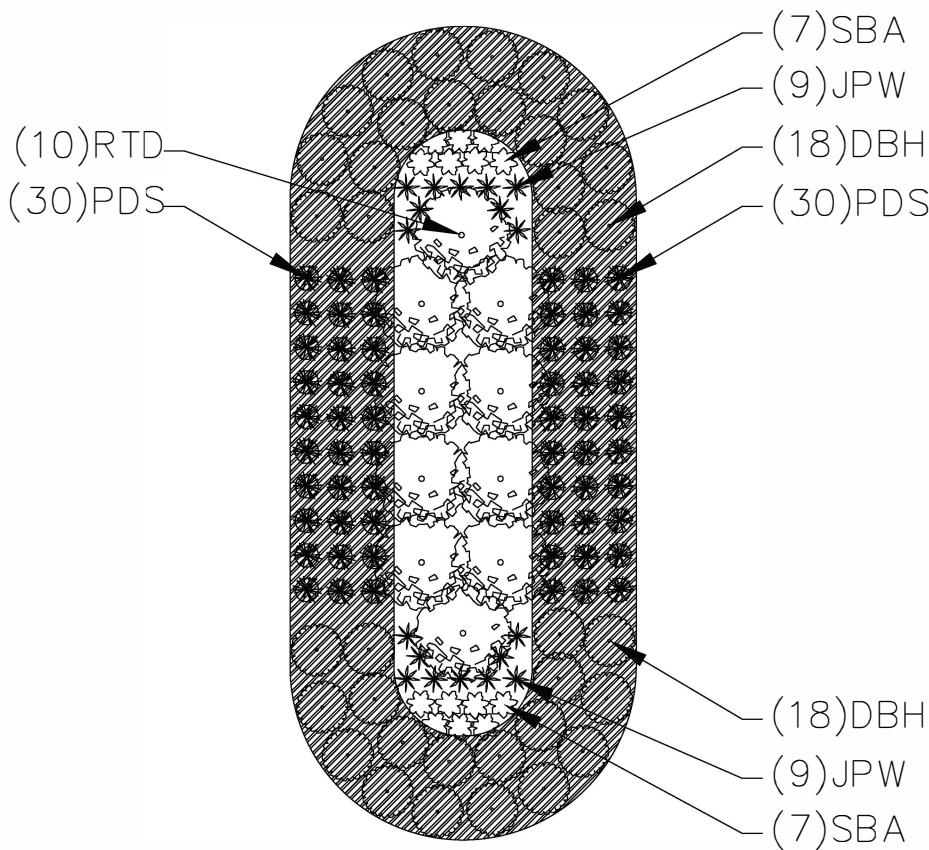
NOT TO SCALE



BIORETENTION CELL A:
PLANTING DESIGN

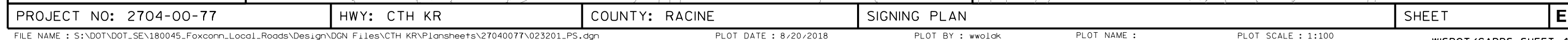
Bioretention A - Plant Schedule

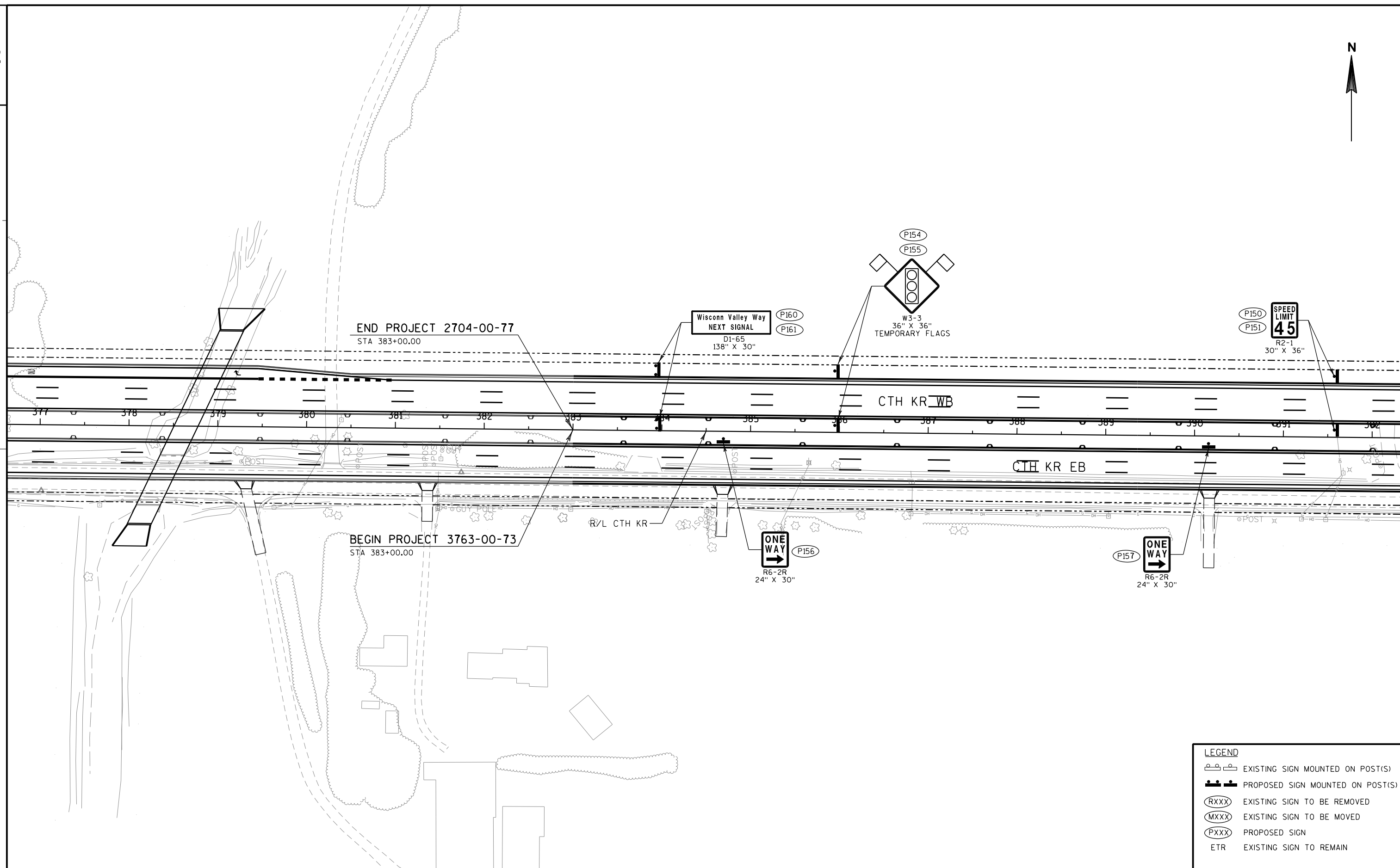
	Scientific Name	Common Name	Quantity	Spacing	Install Size	Size
						Maturity in ft. (Height/Spread)
Deciduous Shrubs						
DBH	Diervilla lonicera	Dwarf Bush Honey-suckle	28	Per Plan	#3 cont.	3-4'/4-5'
RTD	Cornus sericea	Redtwig Dogwood	6	Per Plan	#3 cont.	7-9'/8-10'
Perennials						
BES	Rudbeckia fulgida	Black-eyed Susan	48	Per Plan	4.5" plugs	
JPW	Eupatorium maculatum	Spotted Joe-Pye Weed	15	Per Plan	4.5" plugs	
PDS	Sporobulus heterolepsis	Prairie Dropseed Grass	11	Per Plan	4.5" plugs	
SBA	Aster azureus	Sky Blue Aster	12	Per Plan	4.5" plugs	



BIORETENTION CELL B:
PLANTING DESIGN

Bioretention B - Plant Schedule						
	Scientific Name	Common Name	Quantity	Spacing	Install Size	Size
						Maturity in ft. (Height/Spread)
Deciduous Shrubs						
DBH	Diervilla lonicera	Dwarf Bush Honey-suckle	36	Per Plan	#3 cont.	3-4'/4-5'
RTD	Cornus sericea	Redtwig Dogwood	10	Per Plan	#3 cont.	7-9'/8-10'
Perennials						
JPW	Eupatorium maculatum	Spotted Joe-Pye Weed	18	Per Plan	4.5" plug	
PDS	Sporobulus heterolepsis	Prairie Dropseed Grass	60	Per Plan	4.5" plug	
SBA	Aster azureus	Sky Blue Aster	14	Per Plan	4.5" plug	





PROJECT NO: 3763-00-73

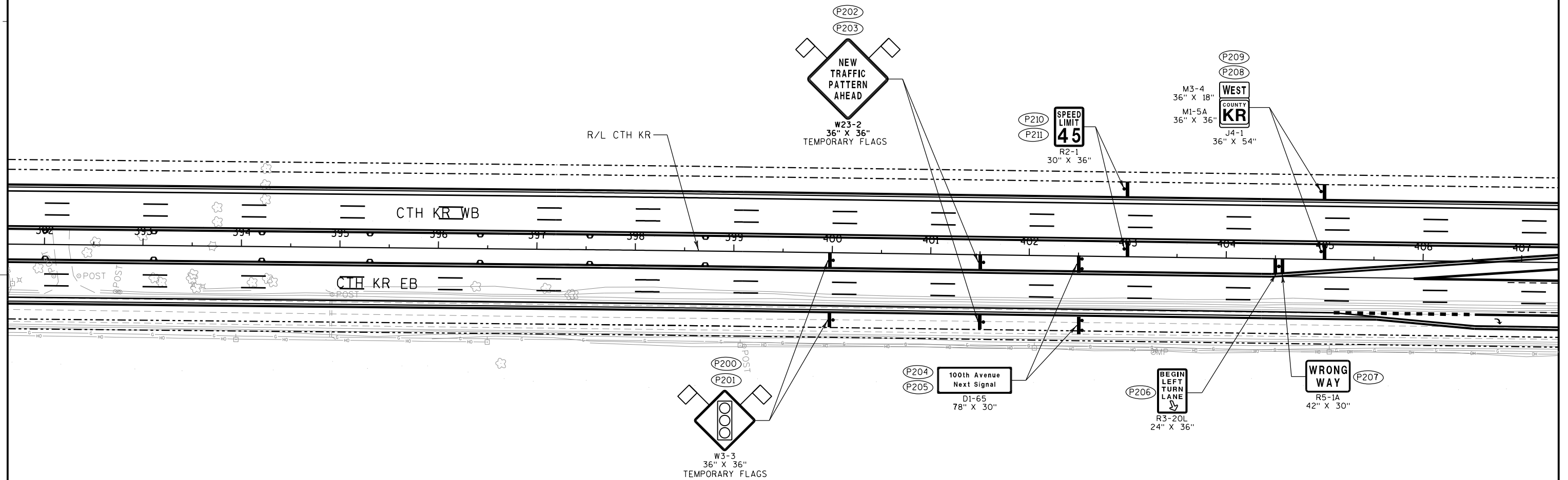
HWY: CTH KR

COUNTY: RACINE

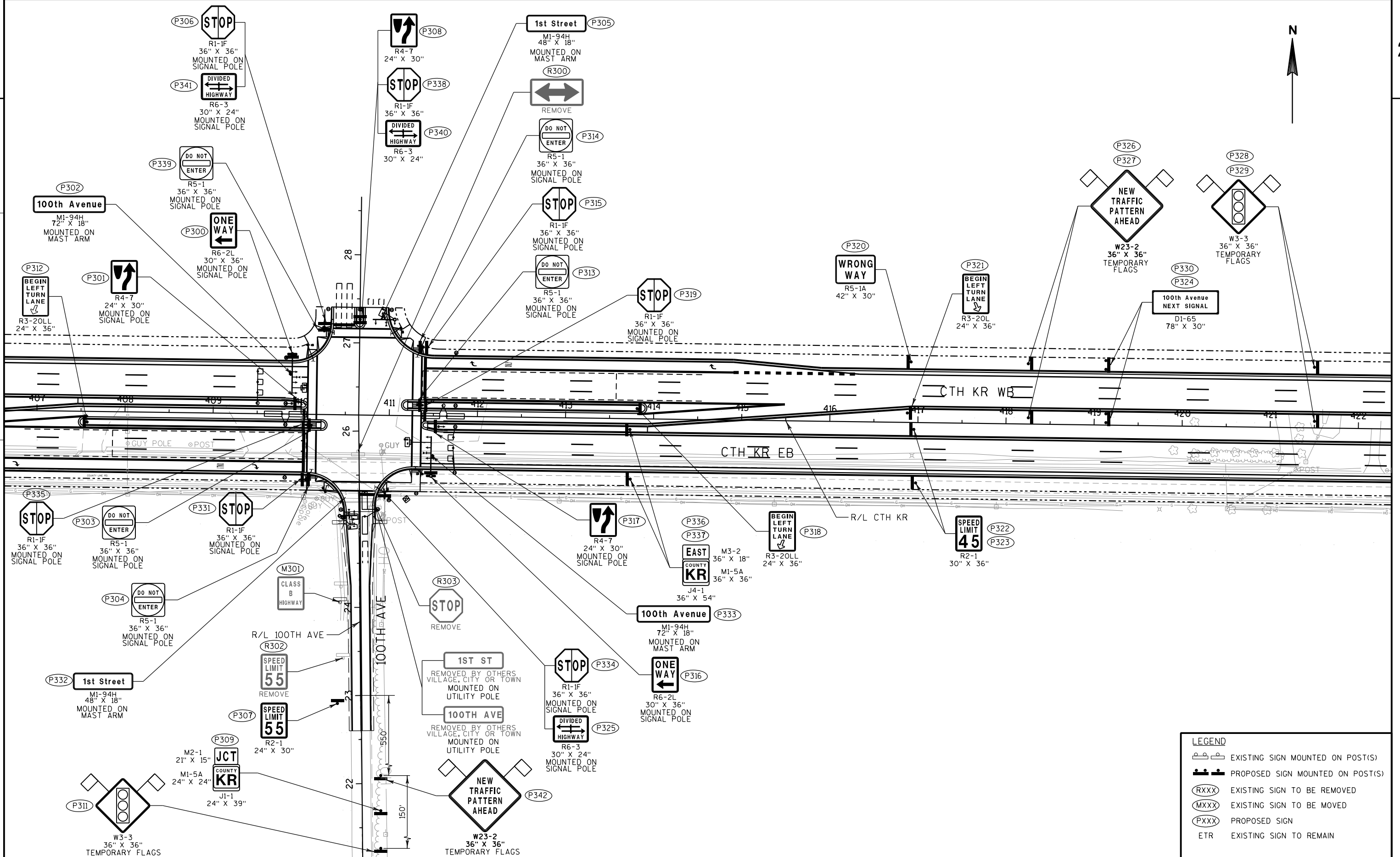
SIGNING PLAN

SHEET

E



LEGEND	
	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
	EXISTING SIGN TO BE REMOVED
	EXISTING SIGN TO BE MOVED
	PROPOSED SIGN
ETR	EXISTING SIGN TO REMAIN



PROJECT NO: 3763-00-73

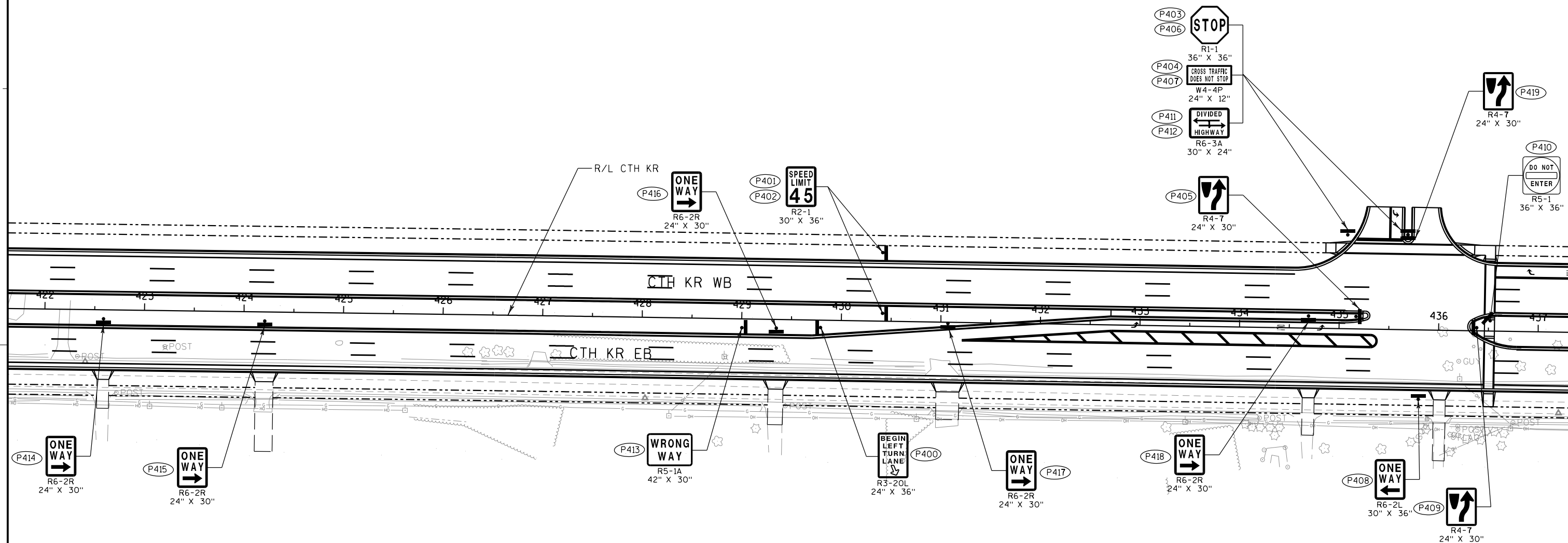
HWY: CTH KR

COUNTY: RACINE

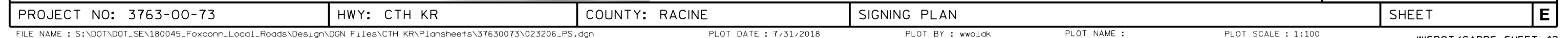
SIGNING PLAN

SHEET

E



LEGEND	
	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
	EXISTING SIGN TO BE REMOVED
	EXISTING SIGN TO BE MOVED
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN



GENERAL NOTES

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACKFEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM OLD SOURCE.

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION. THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE AND A MINIMUM OF 3 INCHES BELOW ALL PAVEMENT BASE MATERIALS. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

IF CID CONTAINS PHASE CONDUCTOR(S) THAT WILL NOT BE USED FOR SUBSEQUENT POLES, I.E. AT THE END OF A CIRCUIT, DO NOT ENERGIZE THE RESPECTIVE CONDUCTOR(S) PAST THE LAST POLE THE PHASE WAS UTILIZED. REMOVE UNUSED CONDUCTOR(S) EXPOSED BEYOND THE CID RACEWAY IN ALL SUBSEQUENT POLES.

SEAL THE ENDS OF ALL CID RACEWAY WITH A UL RECOGNIZED FOAM CONDUIT SEALANT. PROVIDE A 1/2" NYLON ROPE EXTENDING BEYOND THE PLUG TO ASSIST IN REMOVING THE PLUG IN THE FUTURE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN THE CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:

PULL BOXES:	10-FT	LIGHTING CONTROL CENTERS:	10-FT
EMBEDDED JUNCTION BOXES:	3-FT	POLES:	5-FT IN AND 5-FT OUT

SIGN STRUCTURES WHICH HAVE A BASE THAT EXTENDS THE COMPLETE WIDTH OF THE MEDIAN TYPICALLY HAVE A 4" SLEEVE FOR LIGHTING.

WIRE AND CONDUIT IS LISTED IN THE MISCELLANEOUS QUANTITIES BASED UPON THE EARLIEST STAGE SHOWN. CONTRACTOR MAY INSTALL LATER WHEN LOAD NEEDS TO BE ENERGIZED.

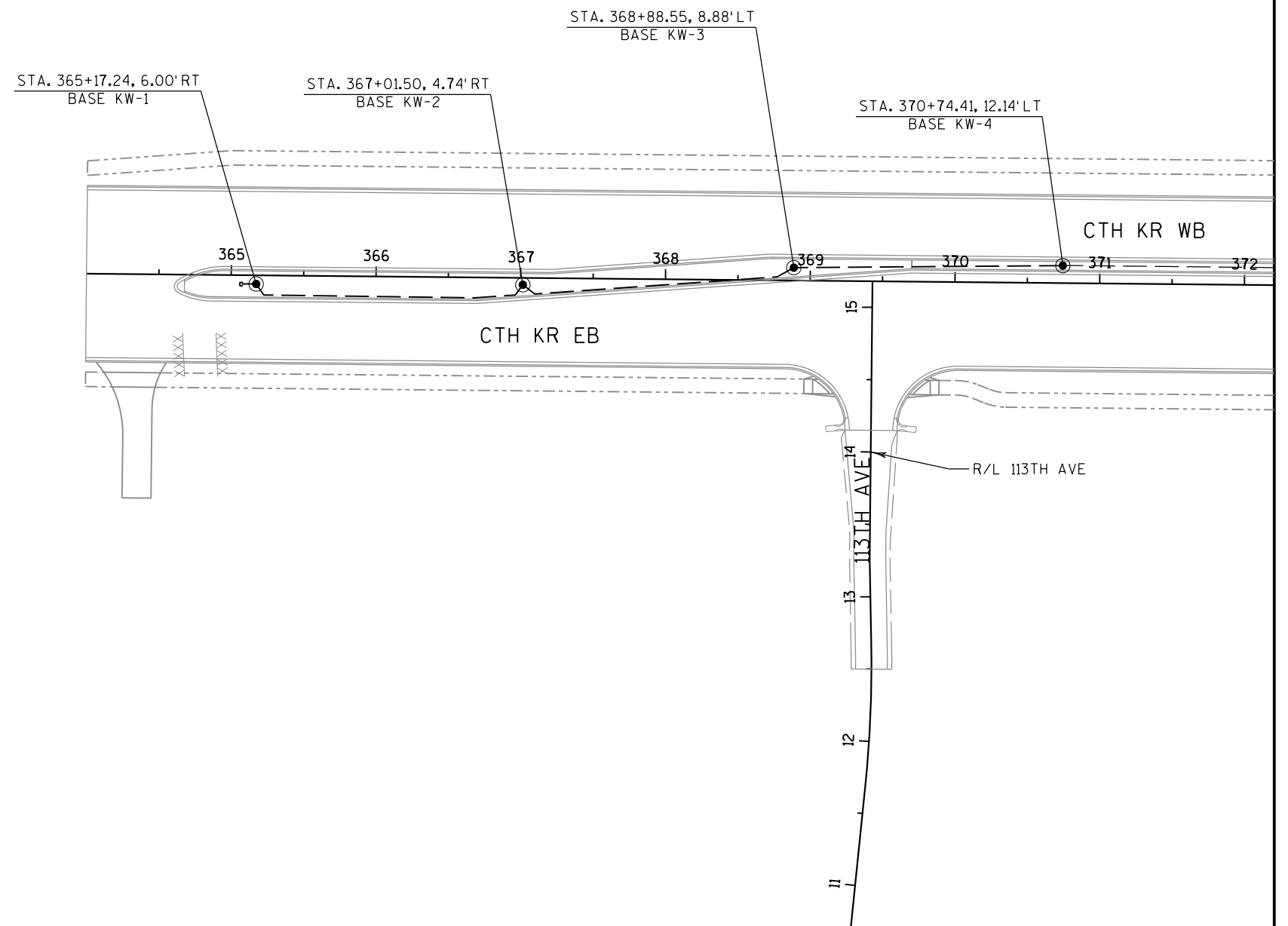
NOTES

NO POLES, ARMS, LUMINAIRES, LIGHTING CONTROL CABINETS, NOR WIRING ARE PROVIDED UNDER THIS CONTRACT.

CONCRETE BASES FOR FUTURE POLES AND LIGHTING CONTROL CABINETS WITH ASSOCIATED CONDUITS (PULL ROPE ONLY) ARE PROVIDED HEREIN.

LEGEND - FINAL LIGHTING

	CID (CABLE IN DUCT)		ELECTRIC METER SOCKET
	CABLE IN CONDUIT - 2" UNLESS NOTED OTHERWISE		DENOTES STRUCTURE MOUNTED
	LIGHTING CONTROL CABINET		CONDUIT
	PULL BOX 24" x 36"		STUBOUT
	PULL BOX 24" x 42"		CONCRETE POLE BASE, TYPE 5, WITH TRANSFORMER BASE



NOTES

1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-77

HWY: CTH KR

COUNTY: RACINE

LIGHTING PLAN

SHEET

E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\CTH KR\Plansheets\27040077\023502_LP.dgn

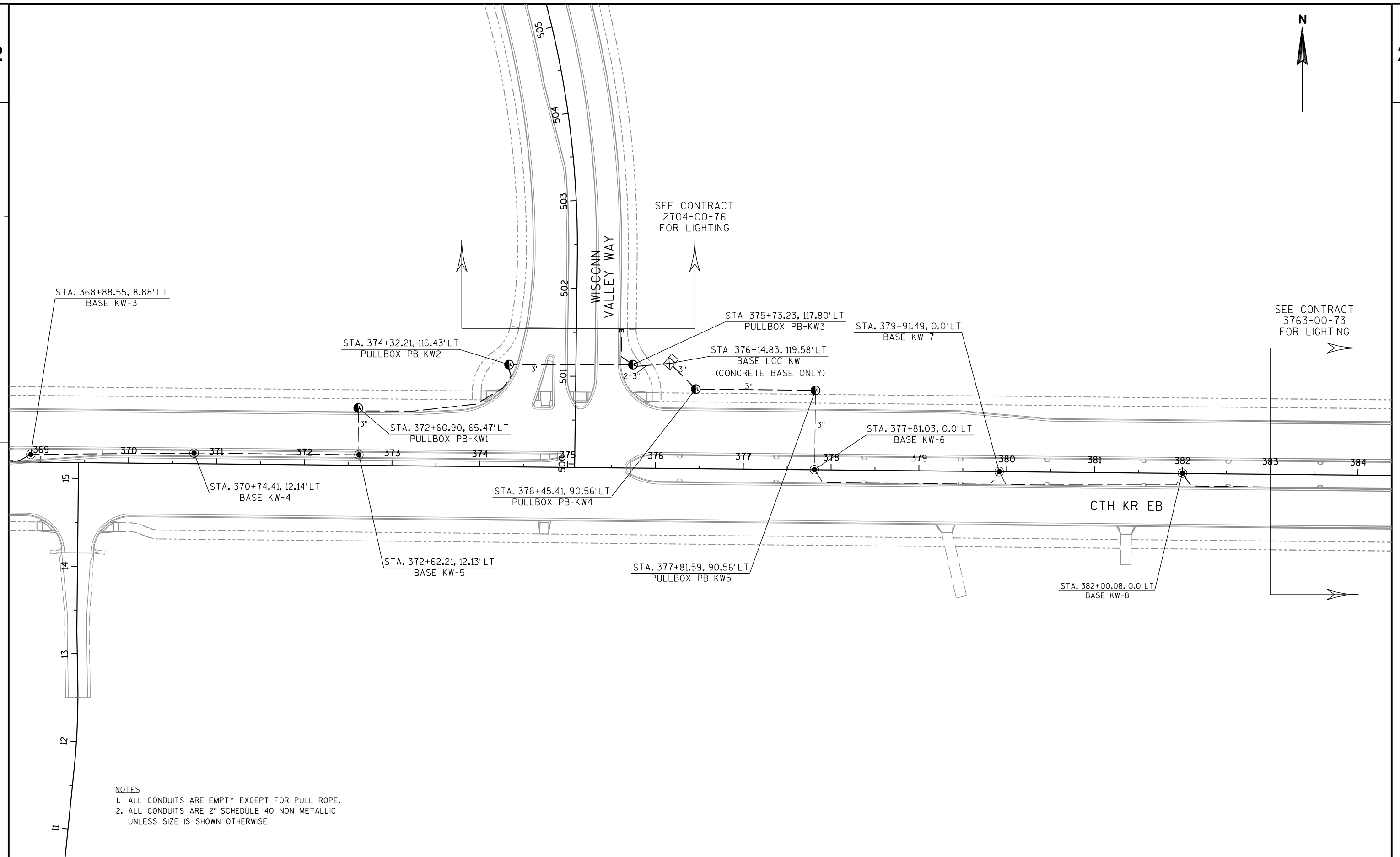
PLOT DATE : 8/20/2018

PLOT BY : jkoopmann

PLOT NAME :

PLOT SCALE : 1:100

WISDOT/CADDs SHEET 42



GENERAL NOTES

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACKFEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM OLD SOURCE.

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION. THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE AND A MINIMUM OF 3 INCHES BELOW ALL PAVEMENT BASE MATERIALS. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

IF CID CONTAINS PHASE CONDUCTOR(S) THAT WILL NOT BE USED FOR SUBSEQUENT POLES, I.E. AT THE END OF A CIRCUIT, DO NOT ENERGIZE THE RESPECTIVE CONDUCTOR(S) PAST THE LAST POLE THE PHASE WAS UTILIZED. REMOVE UNUSED CONDUCTOR(S) EXPOSED BEYOND THE CID RACEWAY IN ALL SUBSEQUENT POLES.

SEAL THE ENDS OF ALL CID RACEWAY WITH A UL RECOGNIZED FOAM CONDUIT SEALANT. PROVIDE A 1/2" NYLON ROPE EXTENDING BEYOND THE PLUG TO ASSIST IN REMOVING THE PLUG IN THE FUTURE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN THE CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:

PULL BOXES:	10-FT	LIGHTING CONTROL CENTERS:	10-FT
EMBEDDED JUNCTION BOXES:	3-FT	POLES:	5-FT IN AND 5-FT OUT

SIGN STRUCTURES WHICH HAVE A BASE THAT EXTENDS THE COMPLETE WIDTH OF THE MEDIAN TYPICALLY HAVE A 4" SLEEVE FOR LIGHTING.

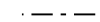
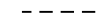
WIRE AND CONDUIT IS LISTED IN THE MISCELLANEOUS QUANTITIES BASED UPON THE EARLIEST STAGE SHOWN. CONTRACTOR MAY INSTALL LATER WHEN LOAD NEEDS TO BE ENERGIZED.

NOTES

NO POLES, ARMS, LUMINAIRES, LIGHTING CONTROL CABINETS, NOR WIRING ARE PROVIDED UNDER THIS CONTRACT.

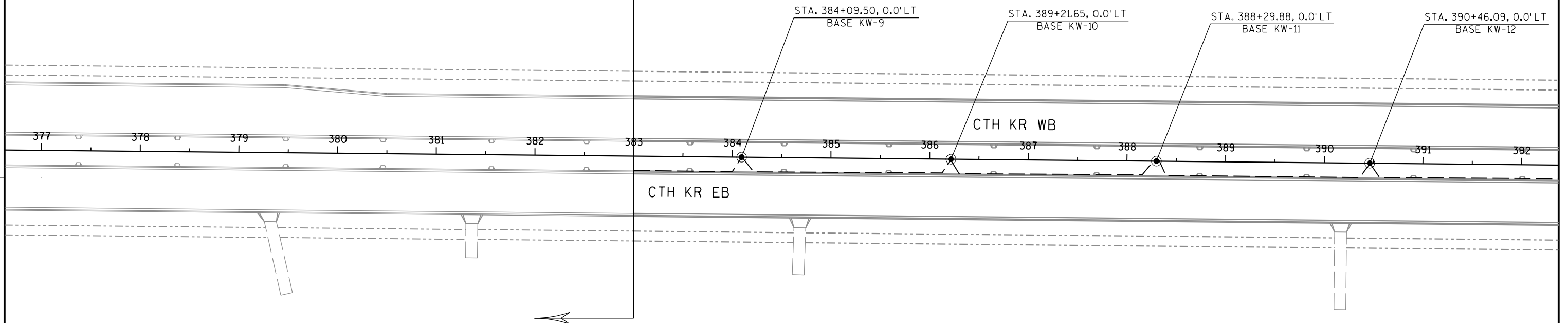
CONCRETE BASES FOR FUTURE POLES AND LIGHTING CONTROL CABINETS WITH ASSOCIATED CONDUITS (PULL ROPE ONLY) ARE PROVIDED HEREIN.

LEGEND - FINAL LIGHTING

	CID (CABLE IN DUCT)		ELECTRIC METER SOCKET
	CABLE IN CONDUIT - 2" UNLESS NOTED OTHERWISE		DENOTES STRUCTURE MOUNTED
	LIGHTING CONTROL CABINET		CONDUIT
	PULL BOX 24" x 36"		STUBOUT
	PULL BOX 24" x 42"		CONCRETE POLE BASE, TYPE 5, WITH TRANSFORMER BASE



SEE CONTRACT
2704-00-77
FOR LIGHTING



NOTES

1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC
UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

LIGHTING PLAN

SHEET

E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\CTH KR\Plansheets\37630073\023502_LP.dgn

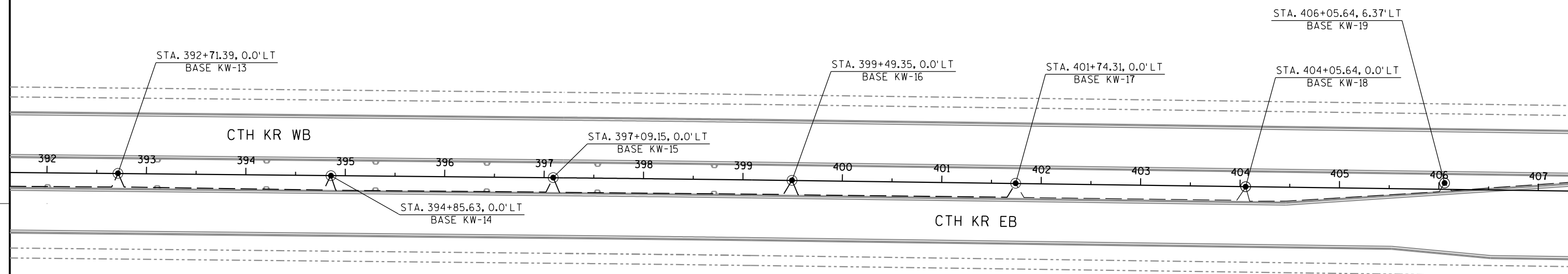
PLOT DATE : 8/20/2018

PLOT BY : jkoopmann

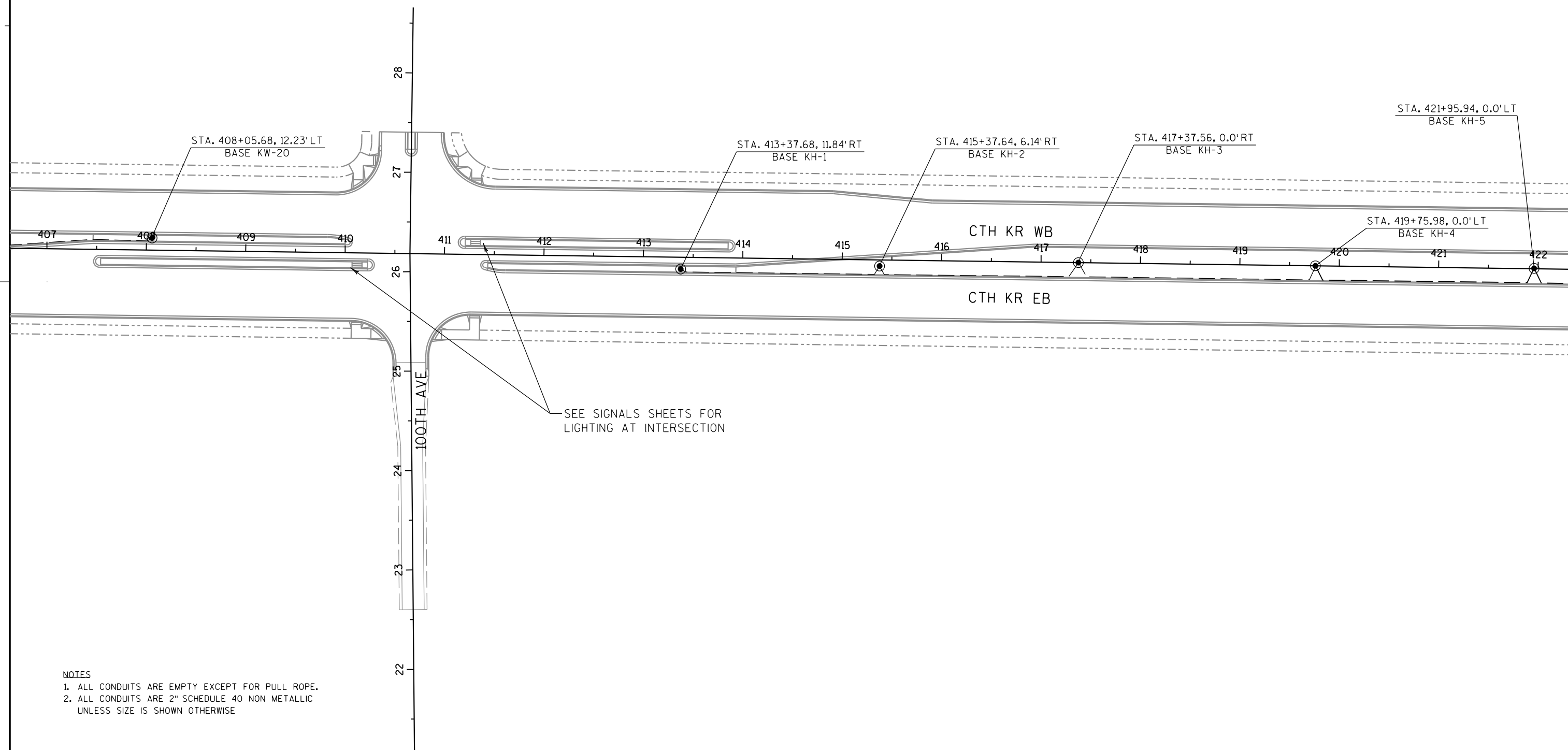
PLOT NAME :

PLOT SCALE : 1:100

WISDOT/CADDs SHEET 42



- NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
 2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE



NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC
UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

LIGHTING PLAN

SHEET

E

FILE NAME : S:\DOT\DOT_SE\180045-Foxconn-Local_Roads\Design\DGN Files\CTH KR\Plansheets\37630073\023504_LP.dgn

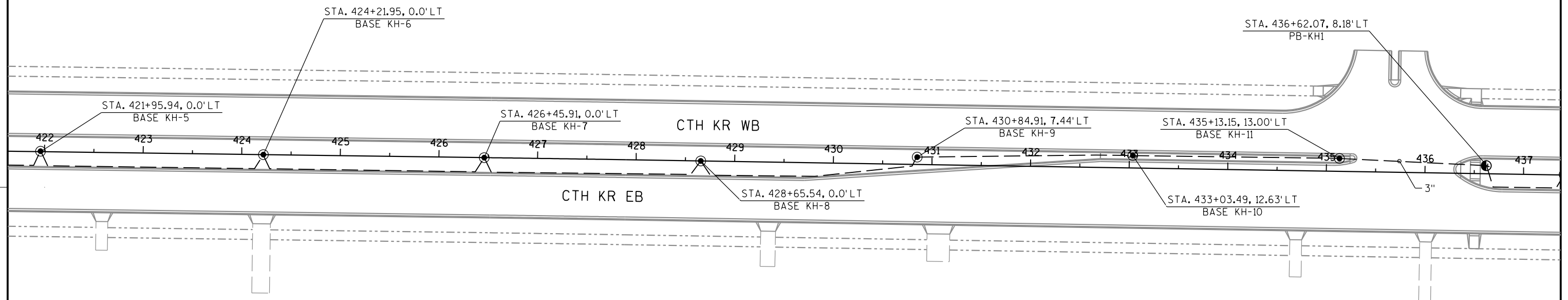
PLOT DATE : 8/20/2018

PLOT BY : jkoopmann

PLOT NAME :

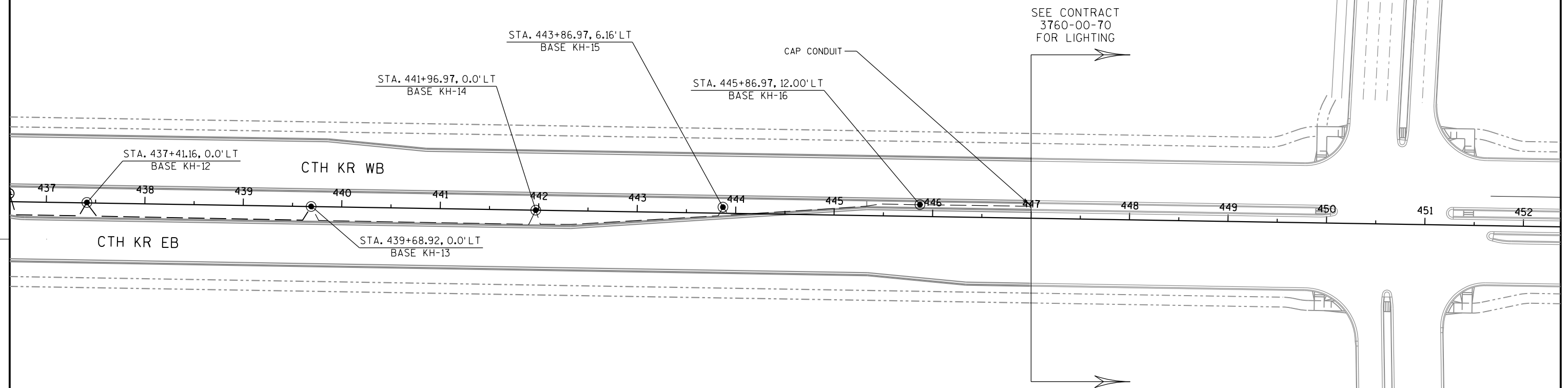
PLOT SCALE : 1:100

WISDOT/CADDs SHEET 42



NOTES

1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE



NOTES

1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

LIGHTING PLAN

SHEET

E

FILE NAME : S:\DOT\DOT_SE\180045-Foxconn-Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\023506_LP.dgn

PLOT DATE : 8/20/2018

PLOT BY : jkoopmann

PLOT NAME :

PLOT SCALE : 1:100

WISDOT/CADDs SHEET 42

2

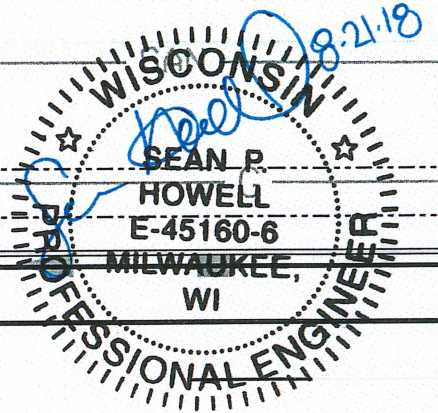
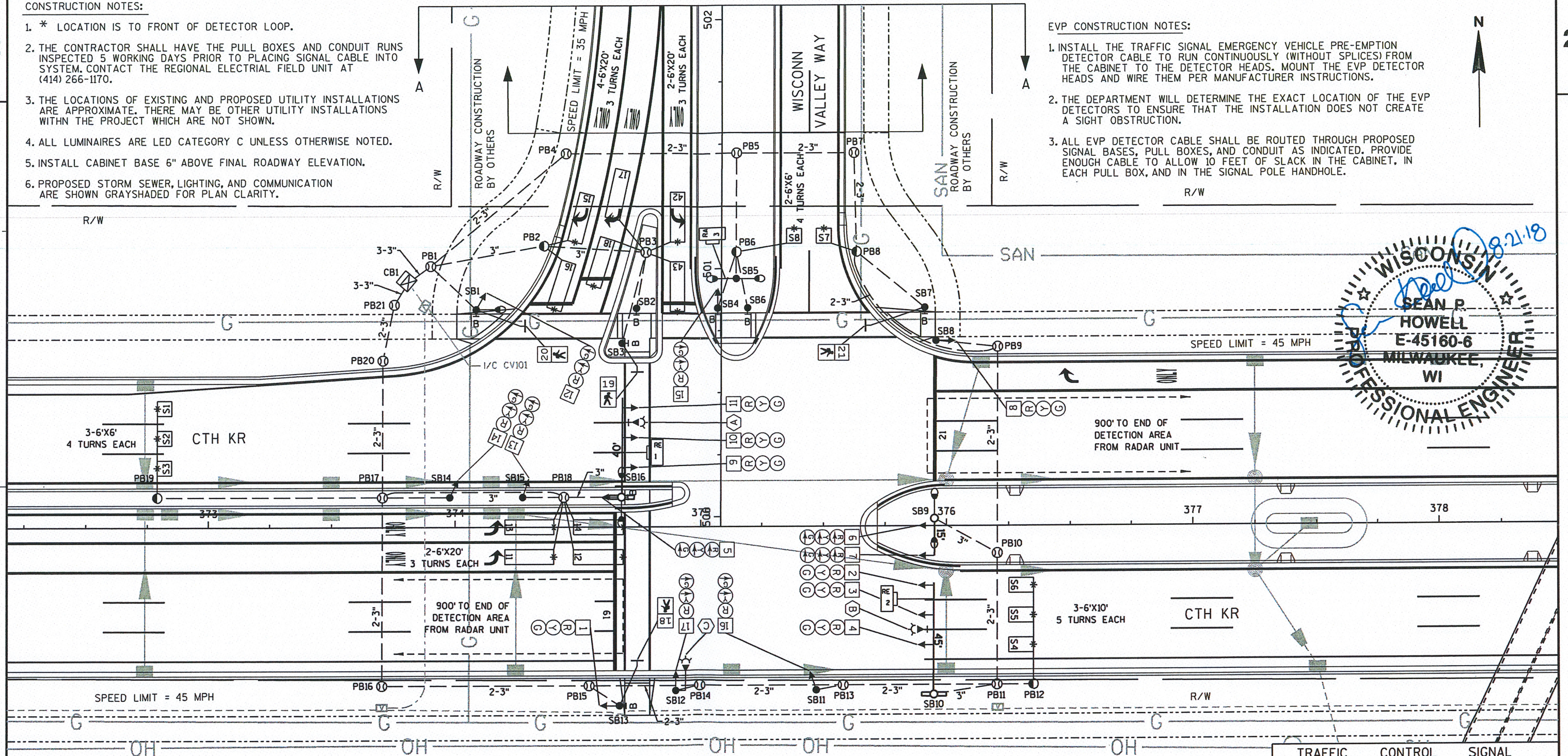
CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT 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 REGIONAL ELECTRICAL FIELD UNIT AT (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 CATEGORY C UNLESS OTHERWISE NOTED.
5. INSTALL CABINET BASE 6" ABOVE FINAL ROADWAY ELEVATION.
6. PROPOSED STORM SEWER, LIGHTING, AND COMMUNICATION ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

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 PROPOSED 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.

2



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- MONOTUBE BASE, POLE, 35'-55' ARM
- MONOTUBE BASE, POLE, 15'-30' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON

- PUSH BUTTON
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- RAдар DETECTION AREA
- TRAFFIC SIGNAL HEAD
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- RADAR DETECTOR
 - LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
 - CONFIRMATION LIGHT
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

STRUCTURE NUMBERS

SB9 = S-51-1262
SB10 = S-51-1263
SB16 = S-51-1264

TRAFFIC CONTROL SIGNAL
CTH KR & WISCONN VALLEY WAY
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. 551-1468 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED

Date 8/22/18 *David G. Brantner* REGIONAL TRAFFIC ENGINEER

APPROVED

Date 8/24/18 *Jay R. Shaw* STATE TRAFFIC ENGINEER

REGION CONTACT: DAVID BRANTNER
DESIGNED BY: KAPUR & ASSOCIATES
REVISED BY: PAGE 1 OF 3

PROJECT NO: 2704-00-77

HWY: CTH KR

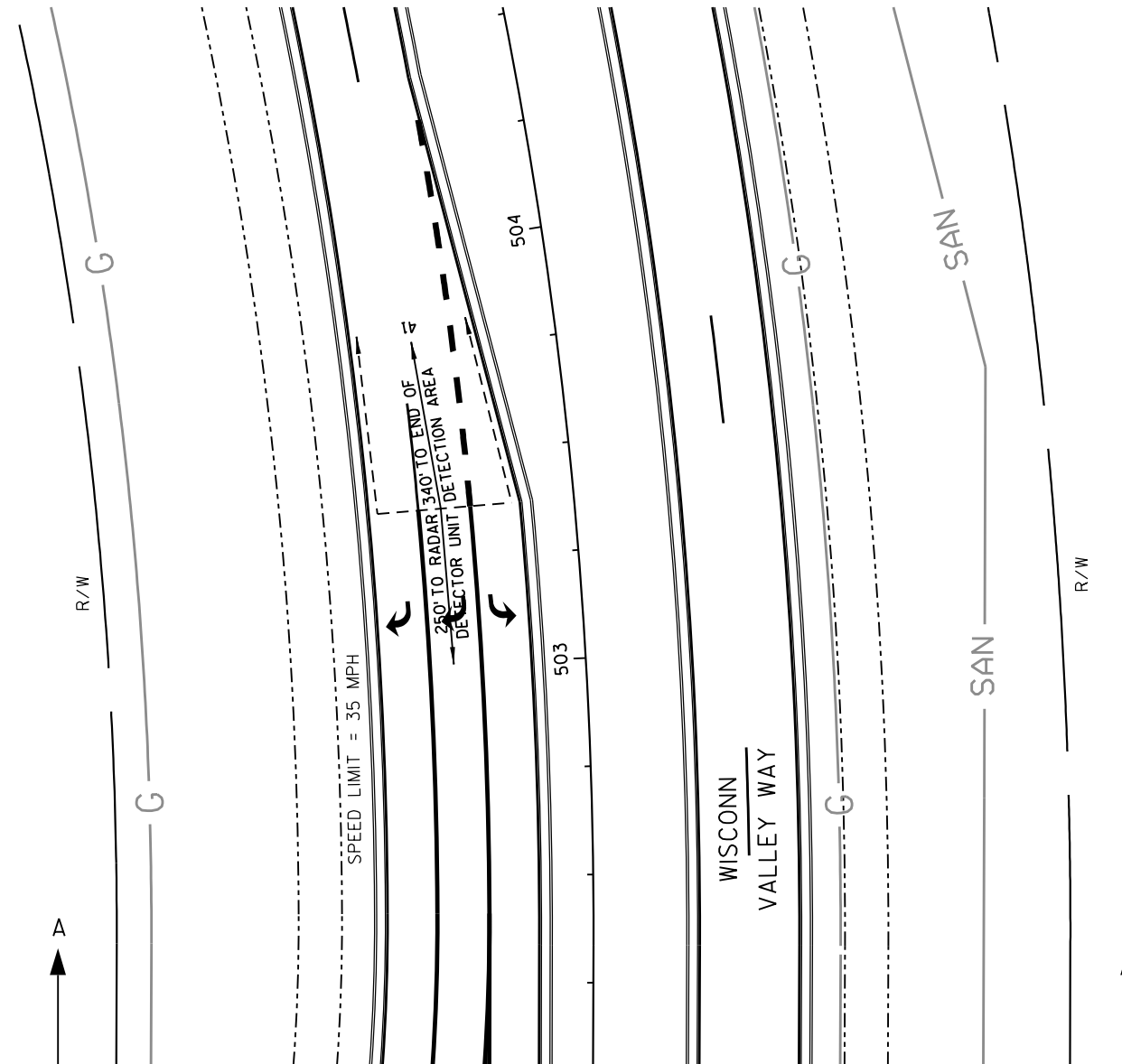
COUNTY: RACINE

TRAFFIC SIGNAL PLAN

SHEET

E

8-22-18 MZ



TRAFFIC CONTROL SIGNAL
CTH KR & WISCONN VALLEY WAY
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-1468

REGION CONTACT: DAVID BRANTNER
DESIGNED BY: KAPUR & ASSOCIATES
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 2704-00-77

HWY: CTH KR

COUNTY: RACINE

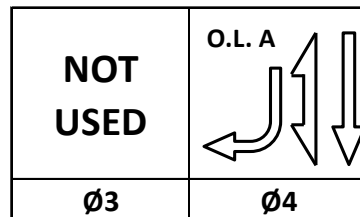
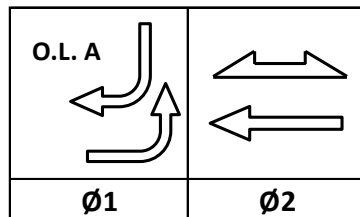
TRAFFIC SIGNAL PLAN

SHEET

E

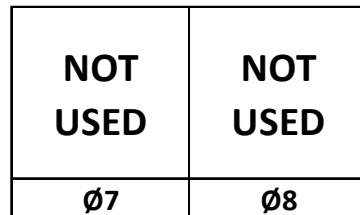
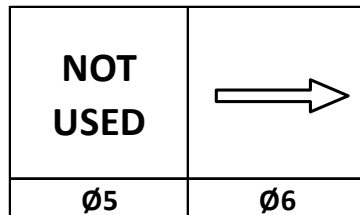
	HEAD NUMBERS	FLASH
Ø1	5,6,7	R
Ø2	8,9,10,11	R
Ø3		
Ø4	15,16,17	R
Ø5		
Ø6	1,2,3,4	R
Ø7		
Ø8		
Ø2P	20,21	
Ø4P	18,19	
Ø6P		
Ø8P		
OLA	12,13,14	R

RING 1



N

RING 2



BARRIER

CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C
MOVEMENT			
PHASE	2+6	6+1	4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	13	15	17	42	S1	S3	S5
CALLED PHASE	1	1	1	1	4			
CALL OPTION	X	X	X	X	X			
DELAY TIME			X	X				
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	14	16	18	43	S2	S4	S6
CALLED PHASE	1	1	1	1	4			
CALL OPTION	X	X	X	X	X			
DELAY TIME			X	X				
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

19	17	23	21			49	51
S7						21	61
						2	6
						X	X
						X	X

DETECTOR INPUT	
PLAN LOOP DETECTOR*(S)	
CALLED PHASE	
CALL OPTION	
DELAY TIME	
EXTENTION OPTION	
EXTEND TIME	
USE ADDED INITIAL	
CROSS SWITCH PHASE	

20	18	24	22			50	52
S8						41	
						4	
						X	
						X	

DETECTOR INPUT	
PLAN LOOP DETECTOR*(S)	
CALLED PHASE	
CALL OPTION	
DELAY TIME	
EXTENTION OPTION	
EXTEND TIME	
USE ADDED INITIAL	
CROSS SWITCH PHASE	

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

TYPE OF COORDINATION	
NONE	X
TBC	
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 LIGHTING CABINET	

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

PROJECT ID:	2704-00-77					SIGNAL WIRE COLOR CODING		BLK-BLACK	RED-RED	GRN-GREEN			
INTERSECTION:	CTH KR AND WISCONN VALLEY WAY							WHT-WHITE	BLU-BLUE	ORG-ORANGE			
CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB1	12	12	RED				ORG	GRN					
		20								BLK	BLU		
		B										WHT/BLK	
SB2	7	B										WHT/BLK	
SB3	7	19								BLK	BLU		
		B										WHT/BLK	
SB4	7	15	RED				ORG	GRN					
		B										WHT/BLK	
SB6	7	B										WHT/BLK	
SB7	7	21								BLK	BLU		
		B										WHT/BLK	
SB8	7	8	RED	ORG	GRN								
SB9	7	6				RED	ORG	GRN					
		7				RED	ORG	GRN					
SB10	7	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
SB11	7	16	RED				ORG	GRN					
SB12	7	17	RED				ORG	GRN					
SB13	12	1	RED	ORG	GRN								
		18								BLK	BLU		
		B										WHT/BLK	
SB14	7	14	RED				ORG	GRN					
SB15	7	13	RED				ORG	GRN					
SB16	12	5				RED	ORG	GRN					
		9	RED/BLK	ORG/BLK	GRN/BLK								
		10	RED/BLK	ORG/BLK	GRN/BLK								
		11	RED/BLK	ORG/BLK	GRN/BLK								
		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 ON TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART.
CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.



(CONTINUED ON NEXT SHEET)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	CB1

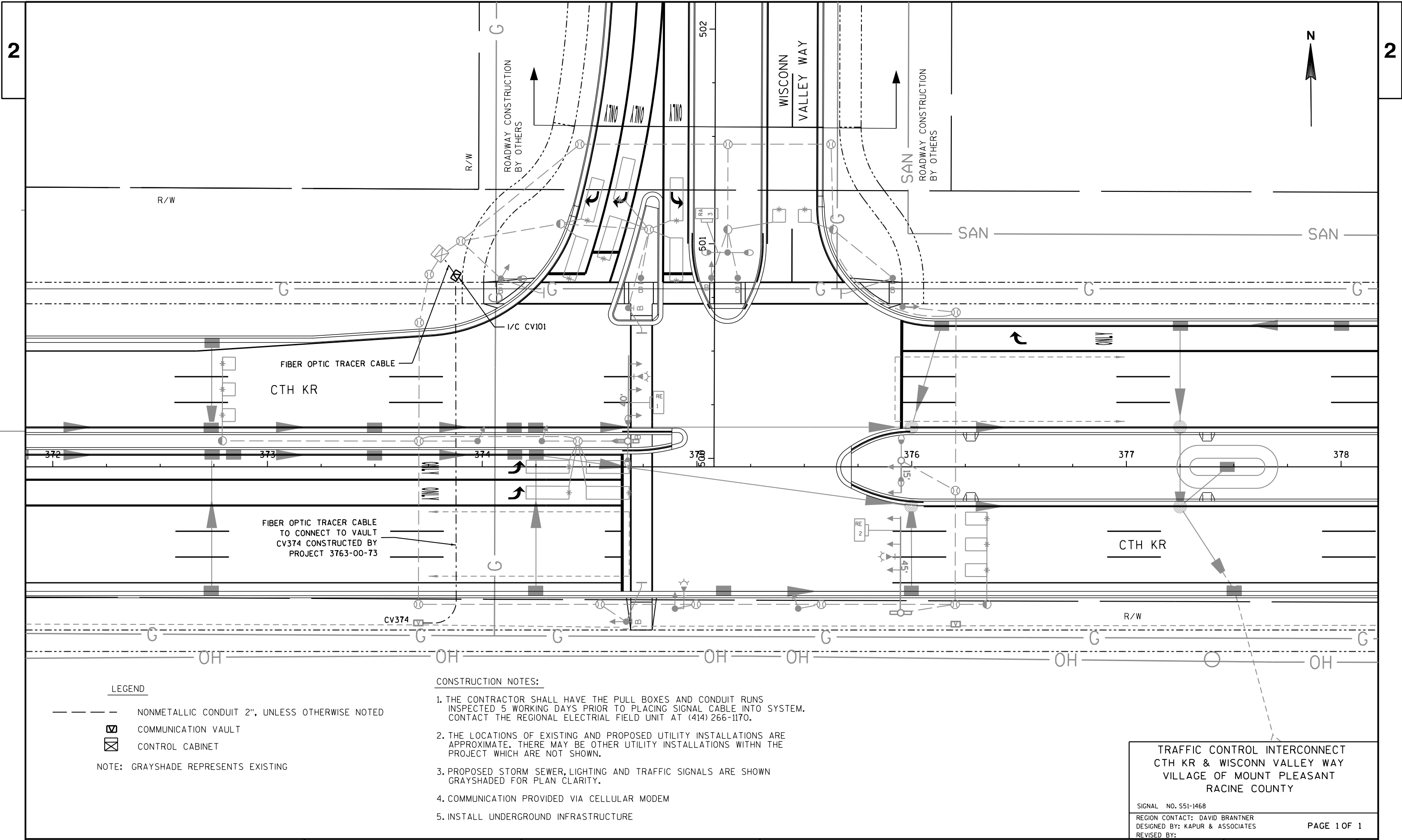
LIGHTING UF 10 AWG W/GROUND	
FROM	TO
CB1	SB1
SB1	SB5
SB5	SB9
CB1	SB16

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	CB1
PB3	SB2
PB4	CB1
PB5	SB6
PB6	SB6
PB7	SB7
PB8	SB7
PB9	SB8
PB10	SB9
PB11	SB10
PB13	SB11
PB14	SB12
PB15	SB13
PB16	SB13
PB17	SB14
PB18	SB15
PB20	CB1
PB21	CB1

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB16 (HEAD A)
CB1	SB10 (HEAD B)
CB1	SB12 (HEAD C)

CONFIRMATION BEACON CABLE TRAFFIC SIGNAL 3-14 AWG	
FROM	TO
CB1	SB16 (HEAD A)
CB1	SB10 (HEAD B)
CB1	SB12 (HEAD C)

RADAR DETECTION CABLE	
FROM	TO
CB1	SB16 (RE1)
CB1	SB10 (RE2)
CB1	SB5 (RA3)



- CONSTRUCTION NOTES:
1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE REGIONAL ELECTRICAL FIELD UNIT AT (414) 266-1170.
 2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
 3. PROPOSED STORM SEWER, LIGHTING AND TRAFFIC SIGNALS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.
 4. COMMUNICATION PROVIDED VIA CELLULAR MODEM
 5. INSTALL UNDERGROUND INFRASTRUCTURE

TRAFFIC CONTROL INTERCONNECT
CTH KR & WISCONN VALLEY WAY
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

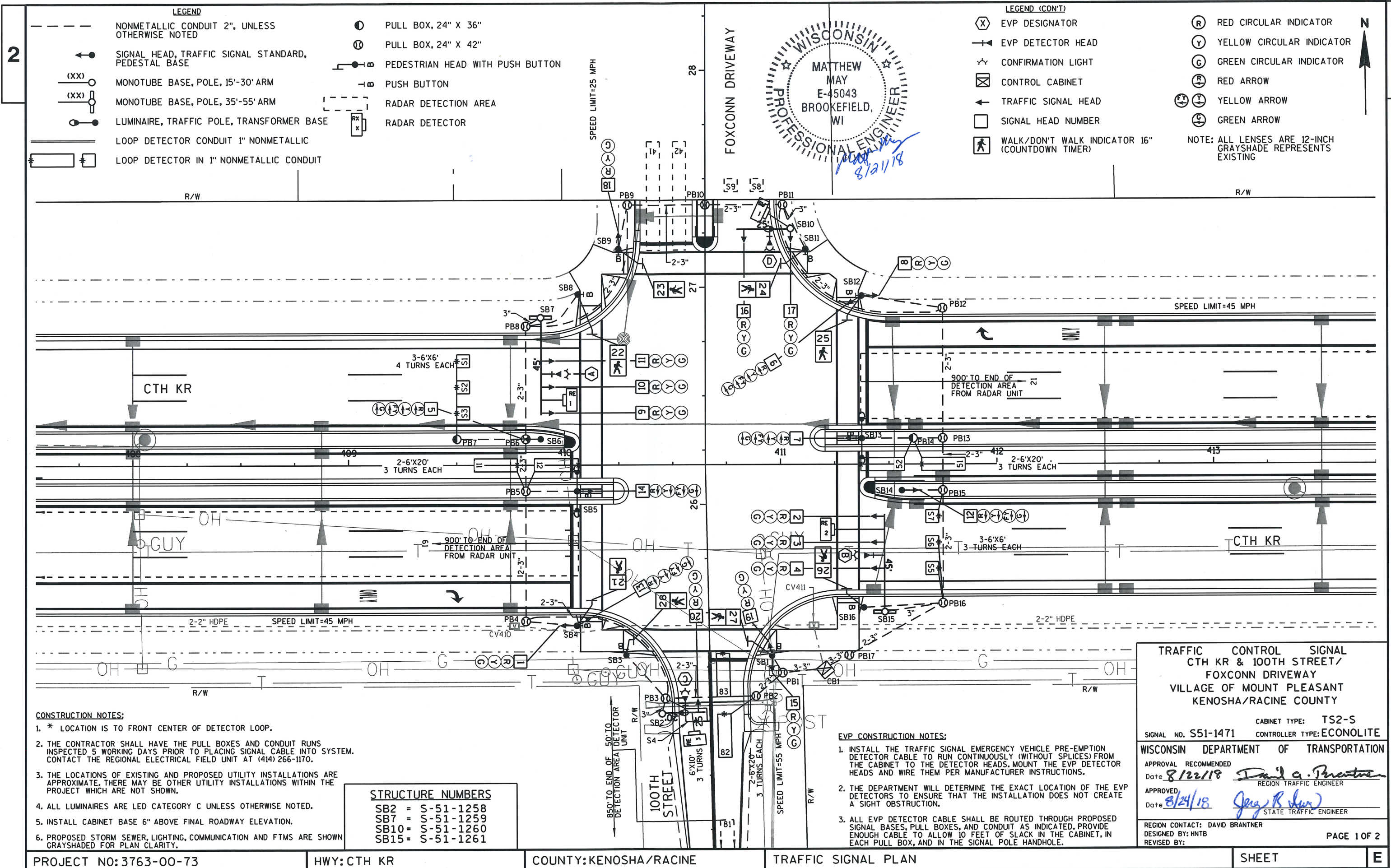
SIGNAL NO. S51-1468
REGION CONTACT: DAVID BRANTNER
DESIGNED BY: KAPUR & ASSOCIATES
REVISED BY:

PAGE 1 OF 1



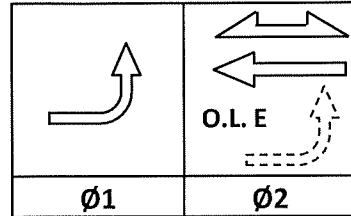
- LEGEND**
-  TRAFFIC SIGNAL
XXX-XXXX
 -  INSTALL TRAFFIC SIGNAL

PROJECT NO: 3763-00-73	HWY: CTH KR	COUNTY: KENOSHA/RACINE	TRAFFIC SIGNAL PROJECT OVERVIEW	SHEET	E
------------------------	-------------	------------------------	---------------------------------	-------	---



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

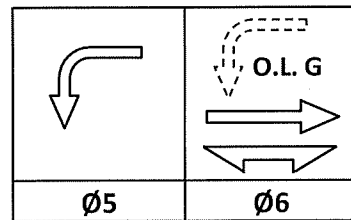
RING 1



NOT USED

Ø3 Ø4

RING 2



NOT USED

Ø7 Ø8

BARRIER

N

CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

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

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	51	82	S1	S3	S5	S7	
CALLED PHASE	1	5	8					
CALL OPTION	X	X	X					
DELAY TIME								
EXTENTION OPTION	X	X	X					
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	2	6						

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	52	83	S2	S4	S6		
CALLED PHASE	1	5	8					
CALL OPTION	X	X	X					
DELAY TIME			X					
EXTENTION OPTION	X	X	X					
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	2	6						

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	21	42	81	S9				
CALLED PHASE	2	4	8					
CALL OPTION	X	X						
DELAY TIME								
EXTENTION OPTION	X	X	X					
EXTEND TIME			X					
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	41	61	S8					
CALLED PHASE	4	6						
CALL OPTION	X	X						
DELAY TIME	X							
EXTENTION OPTION	X	X						
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

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

TYPE OF COORDINATION	
NONE	X
TBC	
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	
TOMAR	X
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

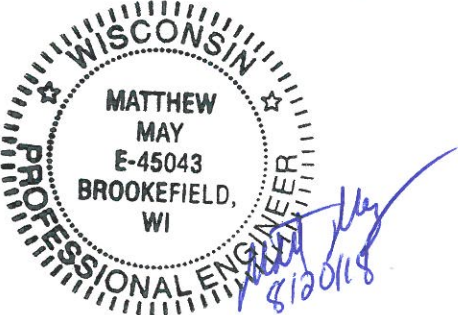
DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	21	42	81	S9				
CALLED PHASE	2	4	8					
CALL OPTION	X	X						
DELAY TIME								
EXTENTION OPTION	X	X	X					
EXTEND TIME			X					
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	41	61	S8					
CALLED PHASE	4	6						
CALL OPTION	X	X						
DELAY TIME	X							
EXTENTION OPTION	X	X						
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

CTH KR & 100TH STREET / FOXCONN DRIVEWAY	
VILLAGE OF MOUNT PLEASANT	
KENOSHA/RACINE COUNTY	
SIGNAL NO: S51-1471	CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE	
DATE: 08/2018	PAGE NO. 2 OF 2

PROJECT ID:	3763-00-73					SIGNAL WIRE COLOR CODING		BLK-BLACK	RED-RED	GRN-GREEN			
INTERSECTION:	CTH KR & 100TH STREET / FOXCONN DRIVEWAY							WHT-WHITE	BLU-BLUE	ORG-ORANGE			
CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB1	12	15	RED	ORG	GRN								
		19	RED/BLK	ORG/BLK	GRN/BLK								
		27								BLK	BLU		
		B										WHT/BLK	
SB2	7	20	RED	ORG	GRN								
SB3	7	28								BLK	BLU		
		B										WHT/BLK	
SB4	15	1	RED	ORG	GRN								
		13				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		21								BLK	BLU		
		B										WHT/BLK	
SB5	7	14				RED	ORG	GRN	BLK				
		B										WHT/BLK	
SB6	7	5				RED	ORG	GRN	BLK				
SB7	7	9	RED	ORG	GRN								
		10	RED	ORG	GRN								
		11	RED	ORG	GRN								
SB8	7	22								BLK	BLU		
		B										WHT/BLK	
SB9	12	18	RED	ORG	GRN								
		23								BLK	BLU		
		B										WHT/BLK	
SB10	7	16	RED	ORG	GRN								
		17	RED	ORG	GRN								
SB11	7	24								BLK	BLU		
		B										WHT/BLK	
SB12	15	6				RED	ORG	GRN	BLK/WHT				
		8	RED/BLK	ORG/BLK	GRN/BLK								
		25								BLK	BLU		
		B										WHT/BLK	
SB13	7	7				RED	ORG	GRN	BLK				
		B										WHT/BLK	
SB14	7	12				RED	ORG	GRN	BLK				
SB15	7	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
SB16	7	26								BLK	BLU		
		B										WHT/BLK	

NOTES: USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS. 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.



(CONTINUED ON NEXT SHEET)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	CB1

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB2
SB2	SB5
CB1	SB13
SB13	SB10

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	CB1
PB3	SB2
PB4	SB4
PB5	SB5
PB6	SB6
PB8	SB7
PB9	SB9
PB10	SB10
PB11	SB10
PB12	SB12
PB13	SB13
PB14	SB13
PB15	SB14
PB16	SB15
PB17	CB1

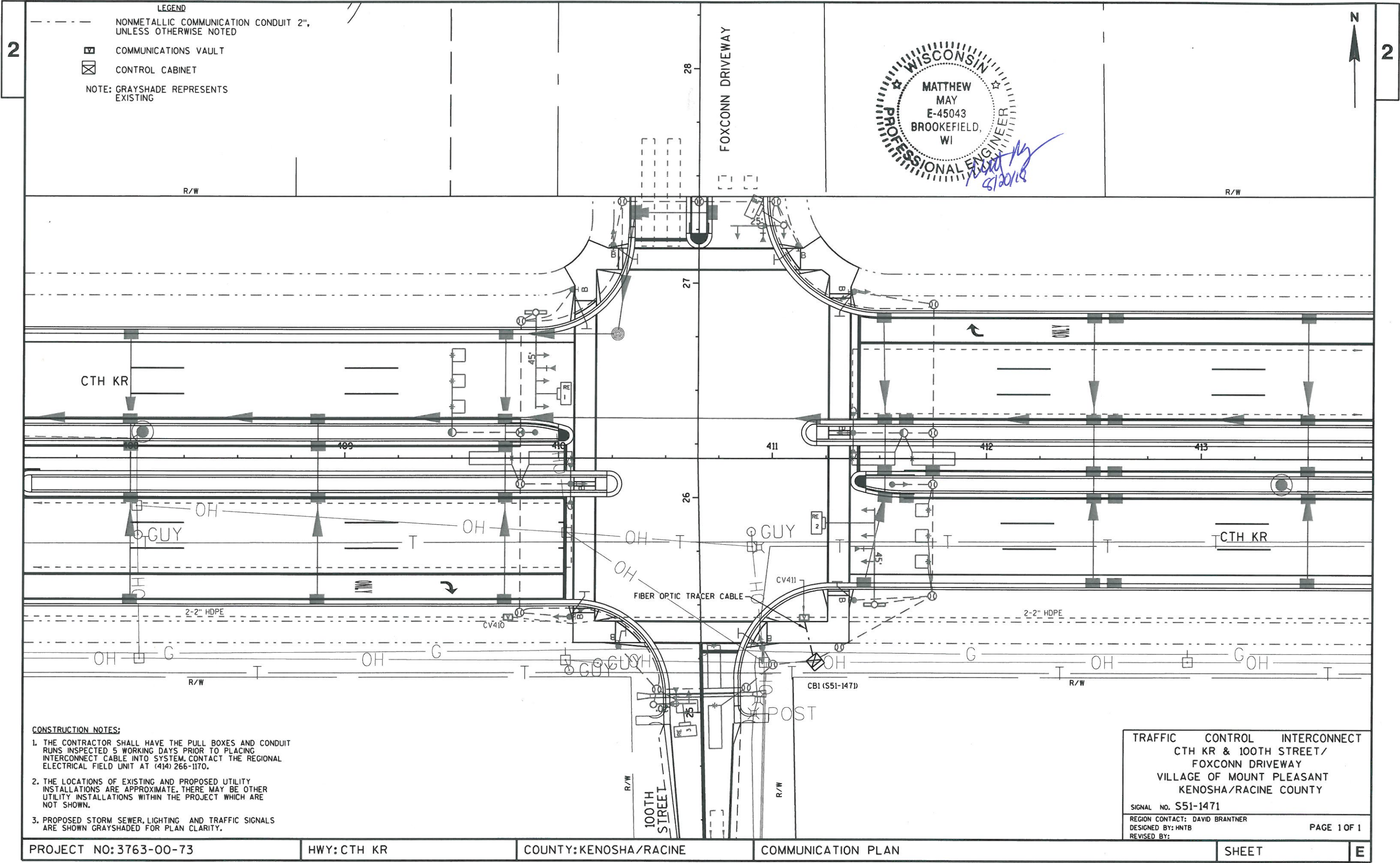
EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB2 (HEAD C)
CB1	SB7 (HEAD A)
CB1	SB10 (HEAD D)
CB1	SB15 (HEAD B)

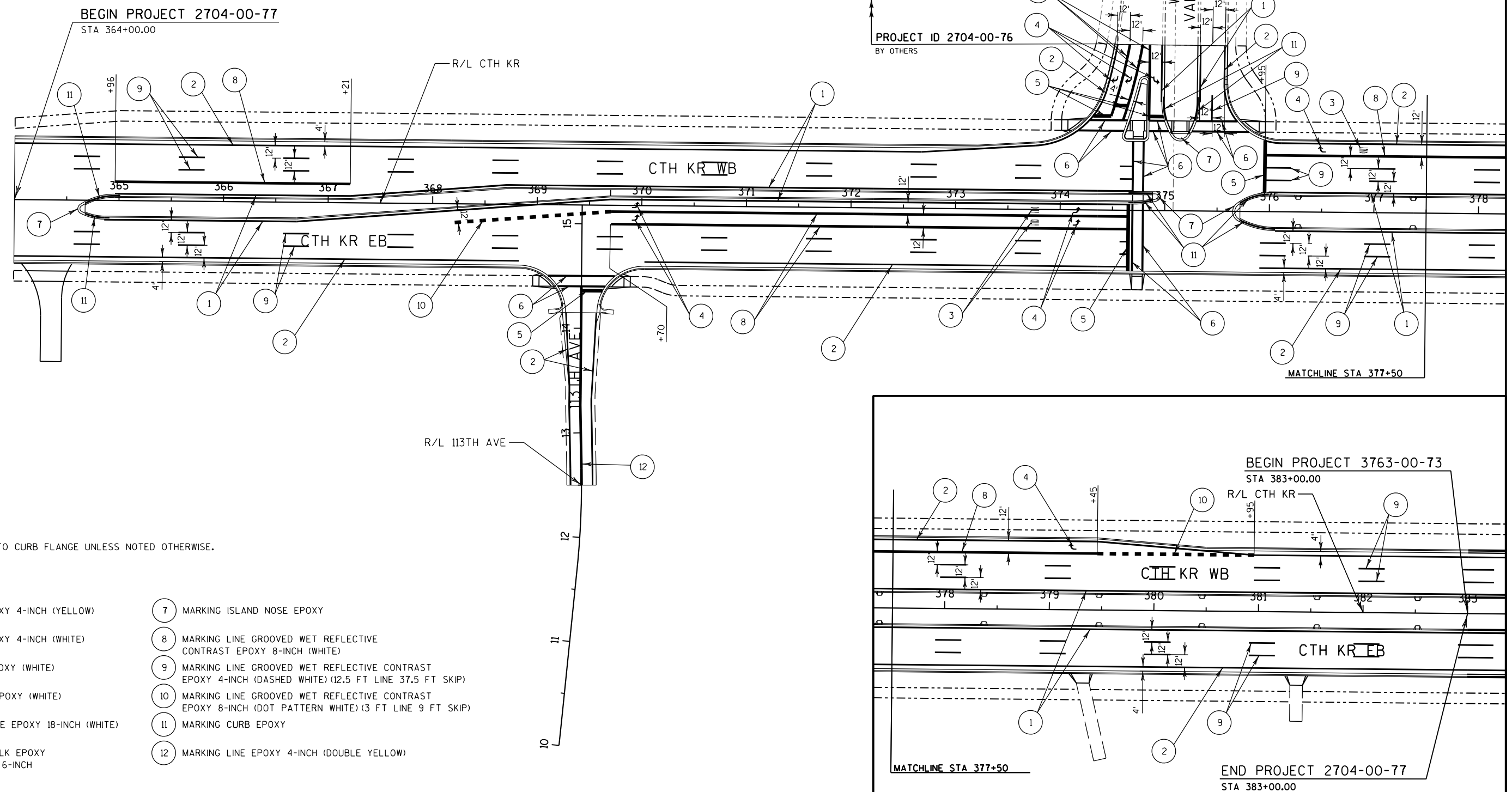
CONFIRMATION BEACON CABLE TRAFFIC SIGNAL 3-14 AWG	
FROM	TO
CB1	SB2 (HEAD C)
CB1	SB7 (HEAD A)
CB1	SB10 (HEAD D)
CB1	SB15 (HEAD B)

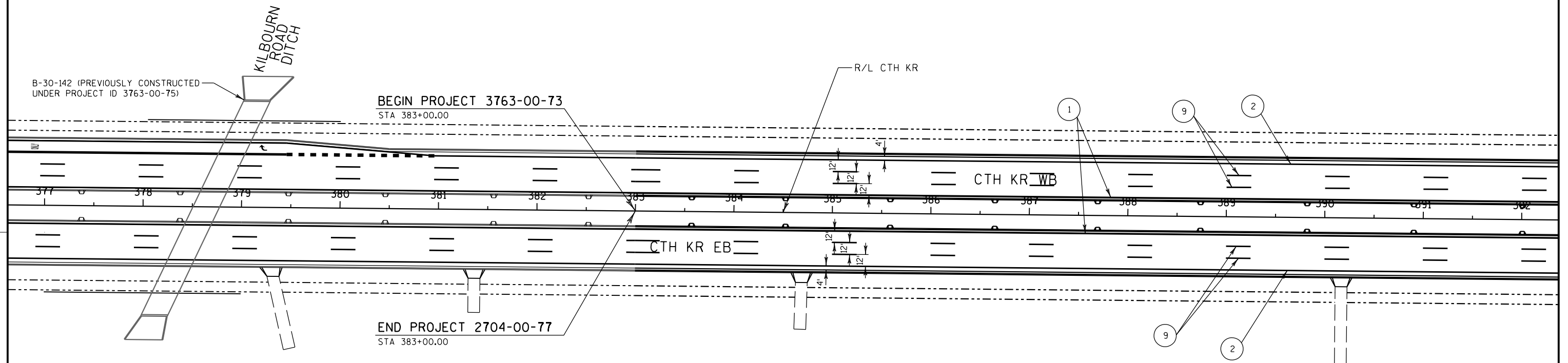
RADAR DETECTION CABLE	
FROM	TO
CB1	SB2 (RE3)
CB1	SB7 (RE1)
CB1	SB10 (RM1)
CB1	SB15 (RE2)



- LEGEND**
-  TRAFFIC SIGNAL
 - xxx-xxxx
 -  WISDOT TO INSTALL ETHERNET SWITCH IN TRAFFIC SIGNAL CABINET
 -  COMMUNICATION PROVIDED VIA CELLULAR MODEM
 -  INSTALL UNDERGROUND INFRASTRUCTURE





**NOTE:**

1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

LEGEND

- | | |
|--|--|
| 1 MARKING LINE EPOXY 4-INCH (YELLOW) | 8 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE) |
| 2 MARKING LINE EPOXY 4-INCH (WHITE) | 9 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP) |
| 3 MARKING WORD EPOXY (WHITE) | 10 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP) |
| 4 MARKING ARROW EPOXY (WHITE) | 11 MARKING CURB EPOXY |
| 5 MARKING STOP LINE EPOXY 18-INCH (WHITE) | 12 MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW) |
| 6 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH | 13 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) |
| 7 MARKING ISLAND NOSE EPOXY | 14 MARKING DIAGONAL EPOXY 12-INCH (WHITE) |



R/L CTH KR

CTH KR WB

CTH KR EB

NOTE:

1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

LEGEND

- | | |
|--|--|
| 1 MARKING LINE EPOXY 4-INCH (YELLOW) | 8 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE) |
| 2 MARKING LINE EPOXY 4-INCH (WHITE) | 9 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP) |
| 3 MARKING WORD EPOXY (WHITE) | 10 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP) |
| 4 MARKING ARROW EPOXY (WHITE) | 11 MARKING CURB EPOXY |
| 5 MARKING STOP LINE EPOXY 18-INCH (WHITE) | 12 MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW) |
| 6 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH | 13 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) |
| 7 MARKING ISLAND NOSE EPOXY | 14 MARKING DIAGONAL EPOXY 12-INCH (WHITE) |

PROJECT NO: 3763-00-73

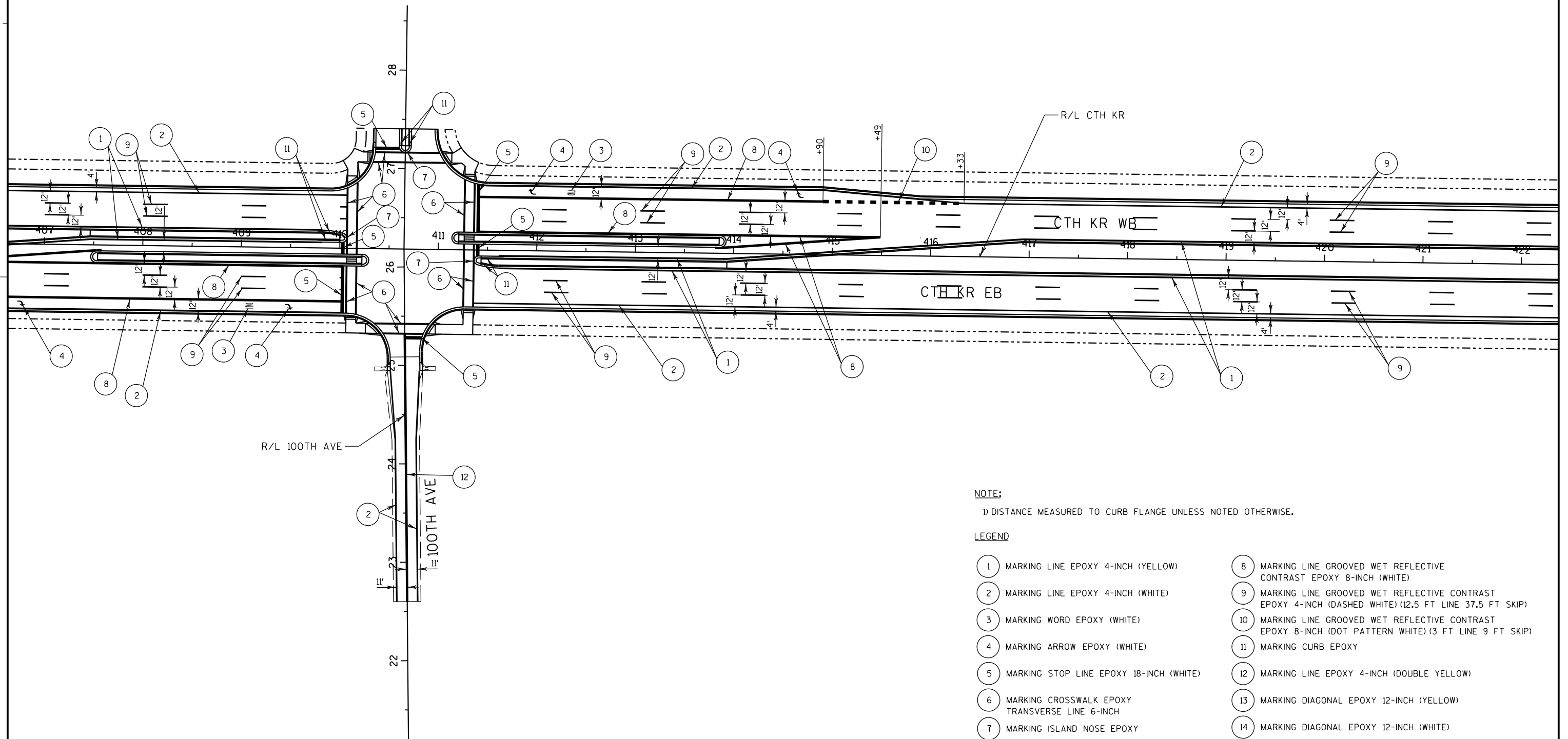
HWY: CTH KR

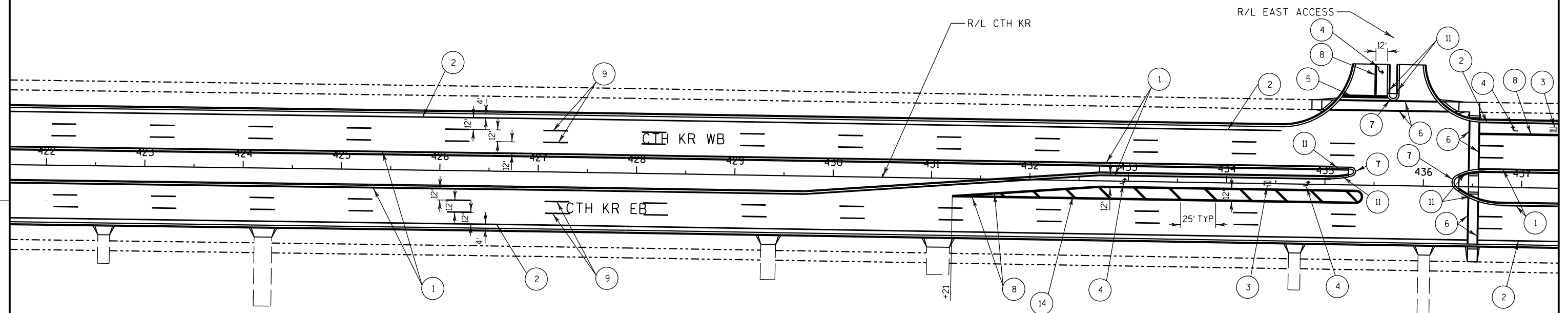
COUNTY: RACINE

PAVEMENT MARKING PLAN

SHEET

E





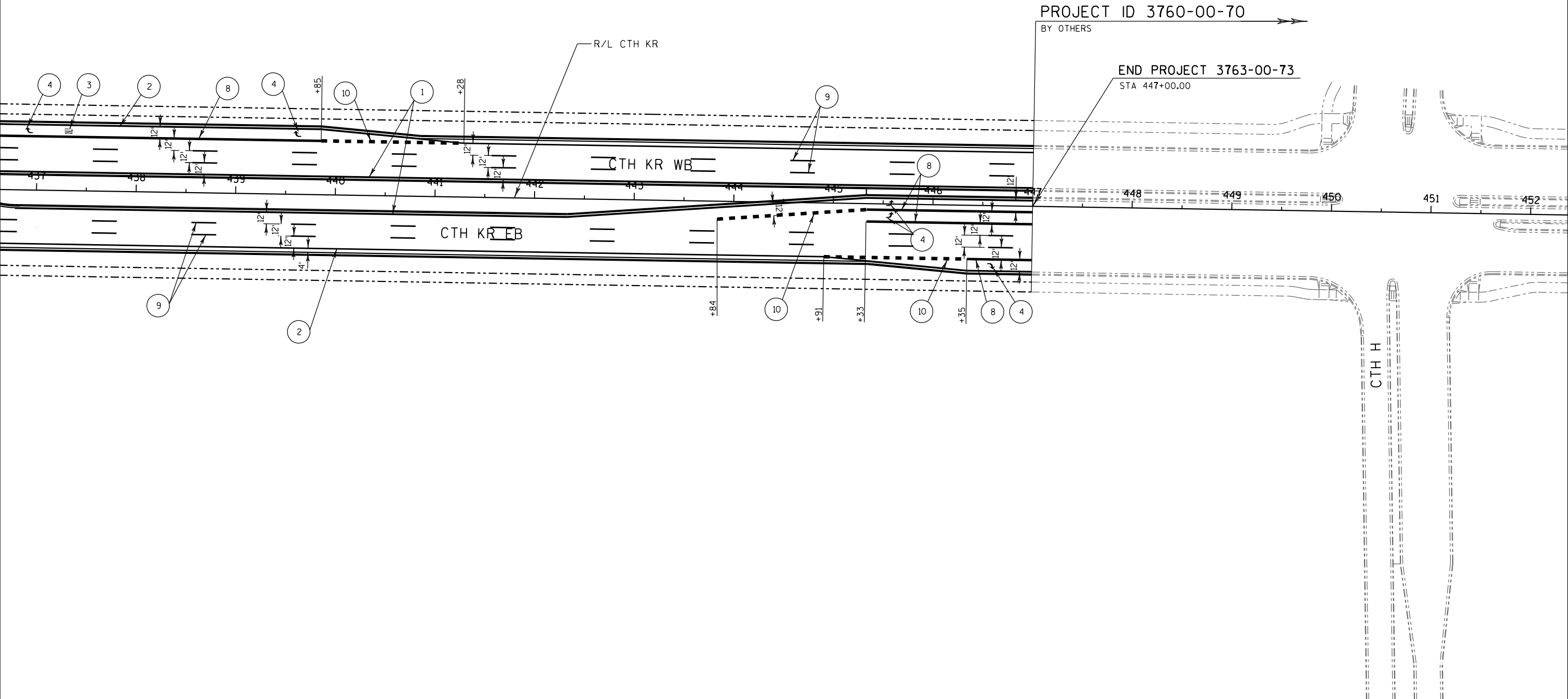
1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

1 MARKING LINE EPOXY 4-INCH (YELLOW)	8 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
2 MARKING LINE EPOXY 4-INCH (WHITE)	9 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH (DASHED WHITE) (2.5 FT LINE 37.5 FT SKIP)
3 MARKING WORD EPOXY (WHITE)	10 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
4 MARKING ARROW EPOXY (WHITE)	11 MARKING CURB EPOXY
5 MARKING STOP LINE EPOXY 18-INCH (WHITE)	12 MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
6 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	13 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
7 MARKING ISLAND NOSE EPOXY	14 MARKING DIAGONAL EPOXY 12-INCH (WHITE)

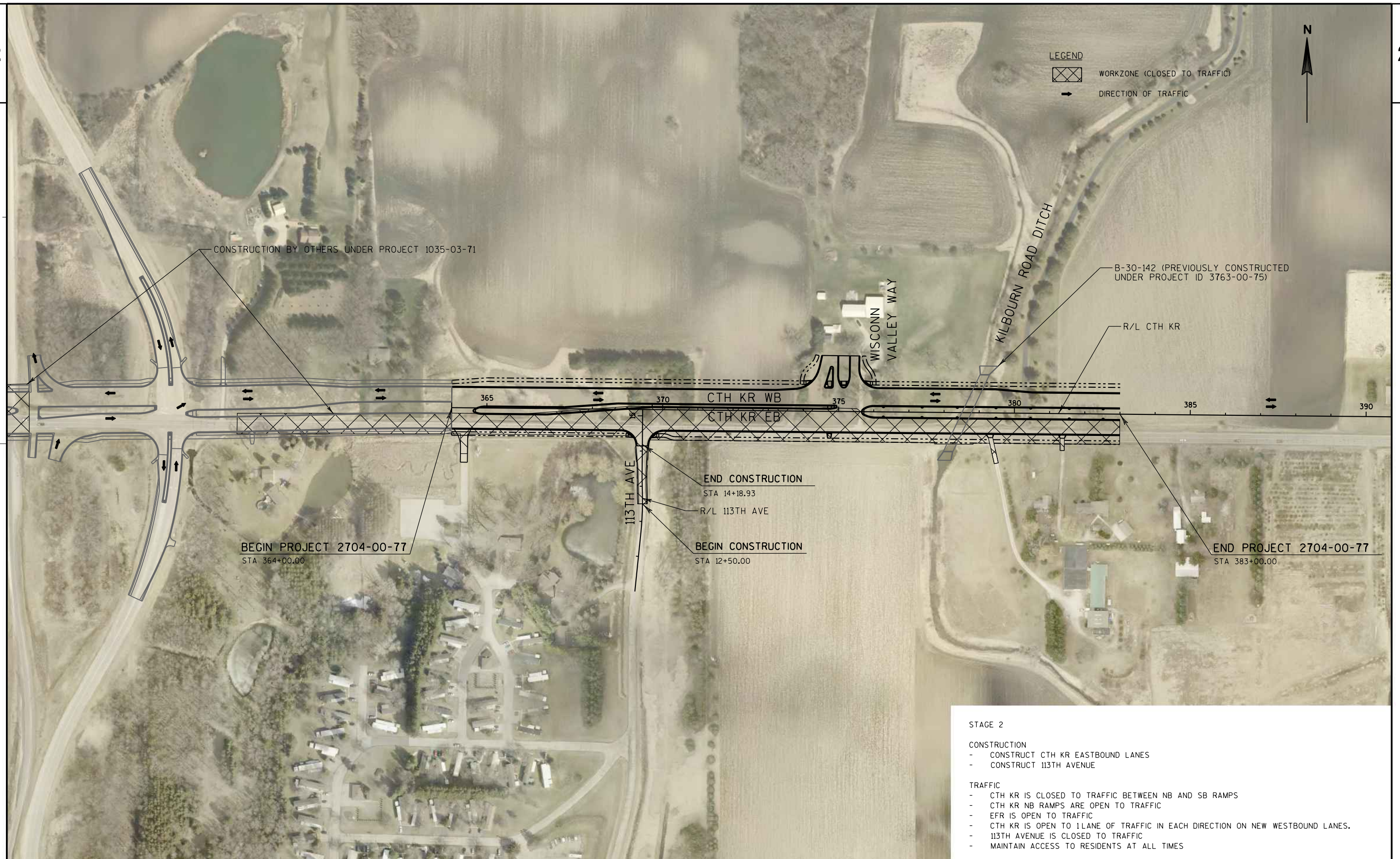
NOTE:
1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

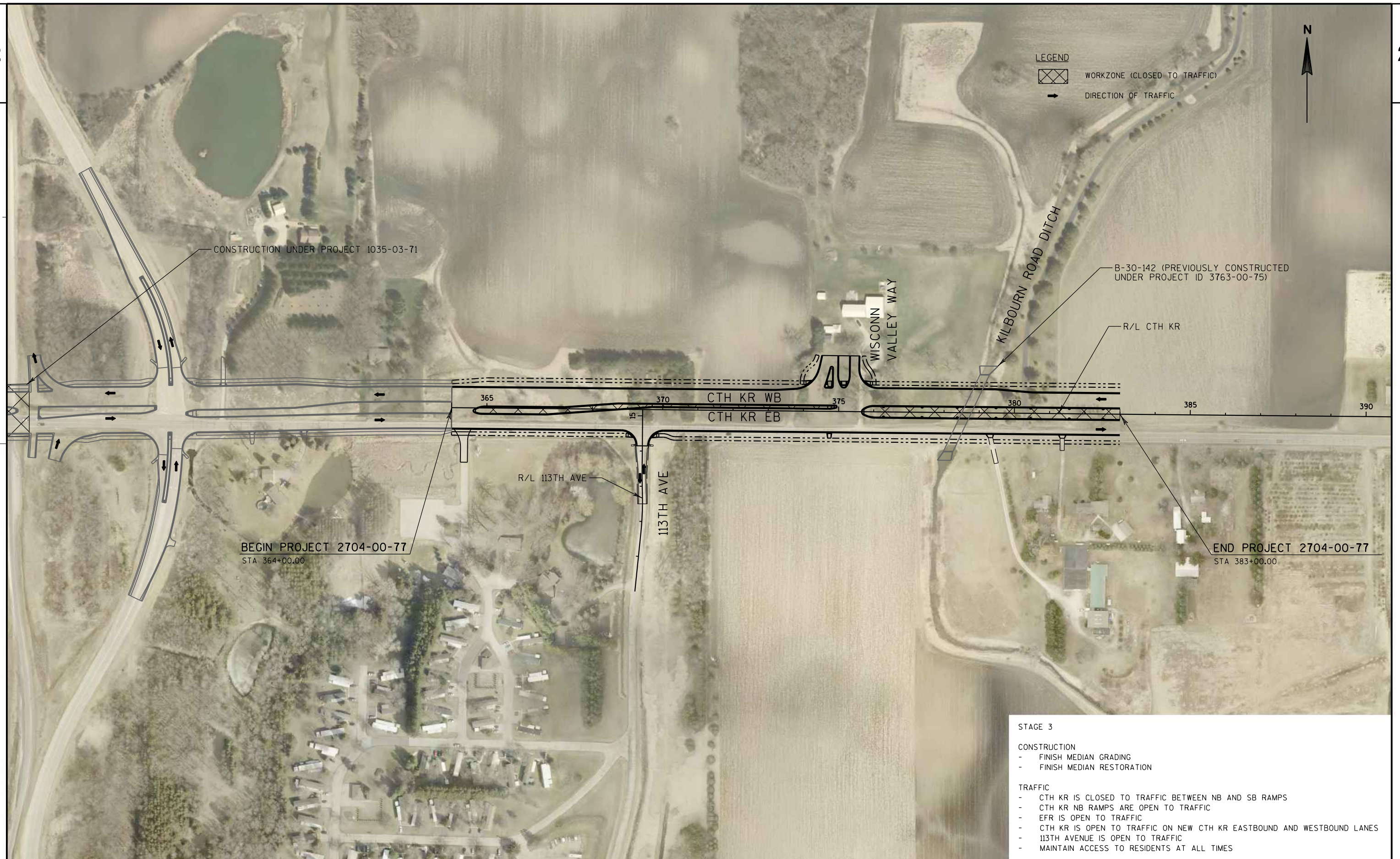
LEGEND

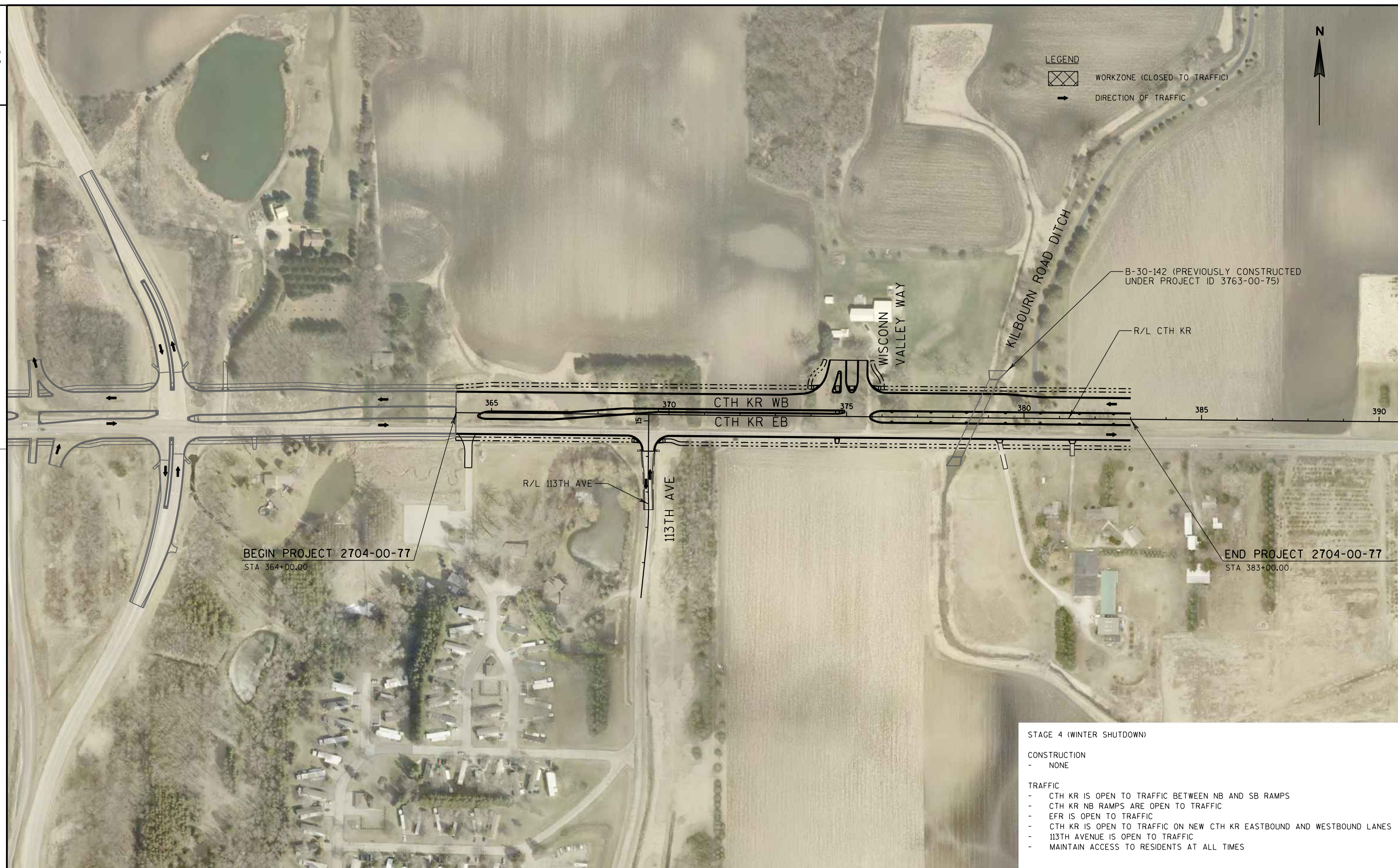
- | | |
|--|--|
| 1 MARKING LINE EPOXY 4-INCH (YELLOW) | 8 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE) |
| 2 MARKING LINE EPOXY 4-INCH (WHITE) | 9 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP) |
| 3 MARKING WORD EPOXY (WHITE) | 10 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP) |
| 4 MARKING ARROW EPOXY (WHITE) | 11 MARKING CURB EPOXY |
| 5 MARKING STOP LINE EPOXY 18-INCH (WHITE) | 12 MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW) |
| 6 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH | 13 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) |
| 7 MARKING ISLAND NOSE EPOXY | 14 MARKING DIAGONAL EPOXY 12-INCH (WHITE) |

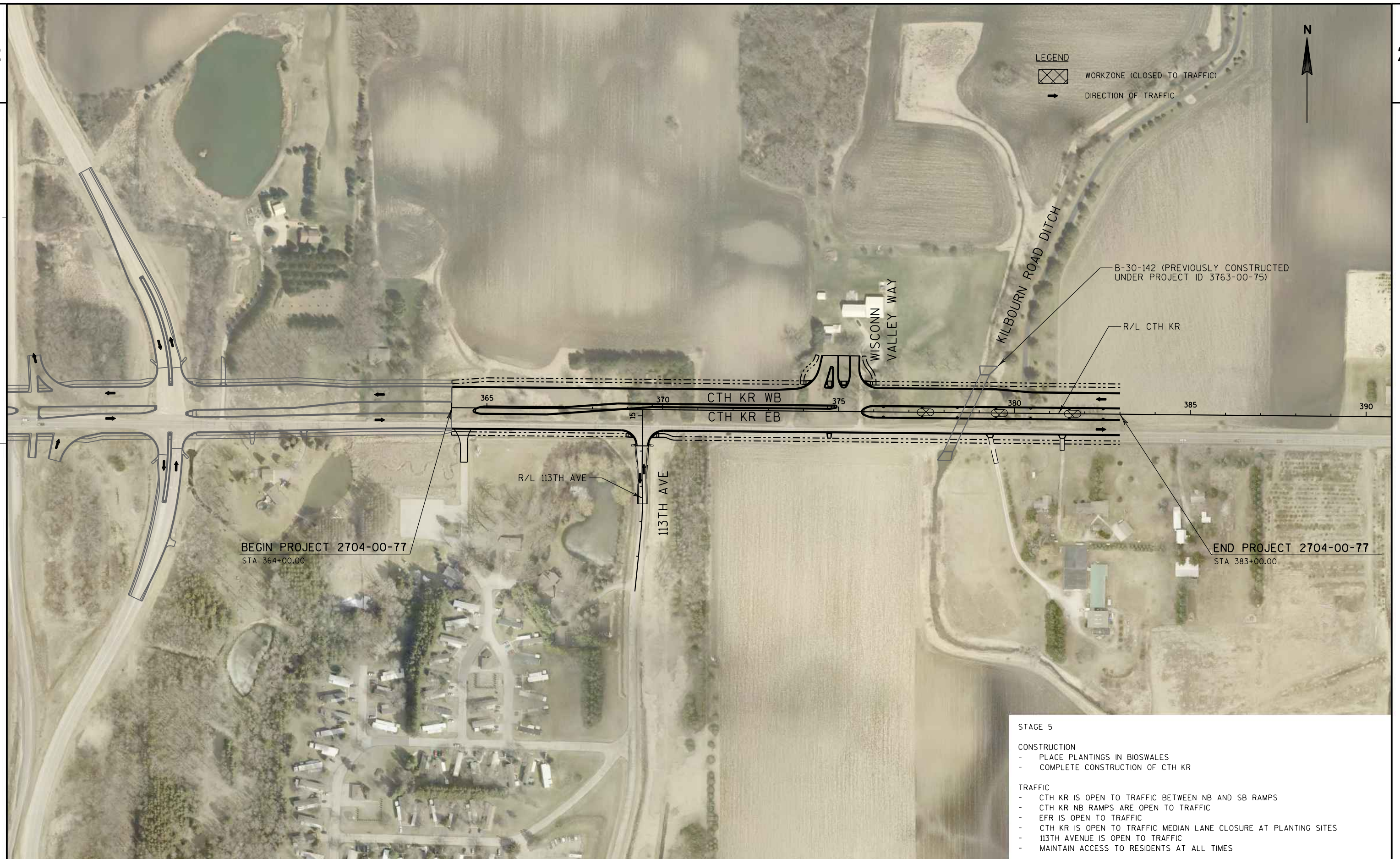


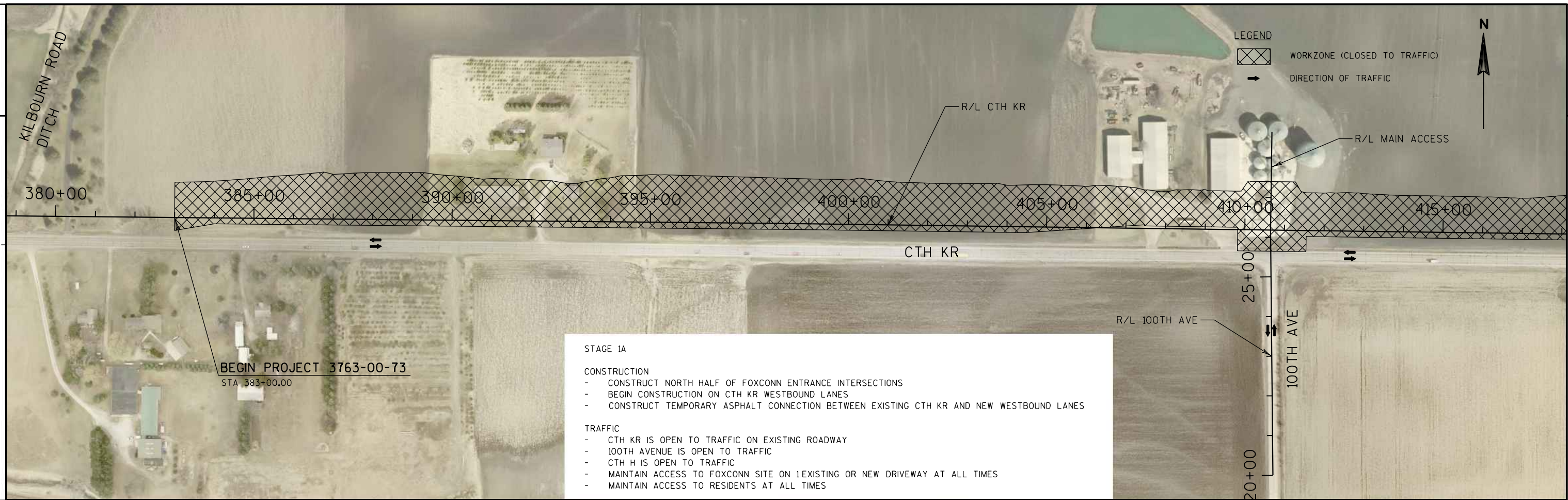


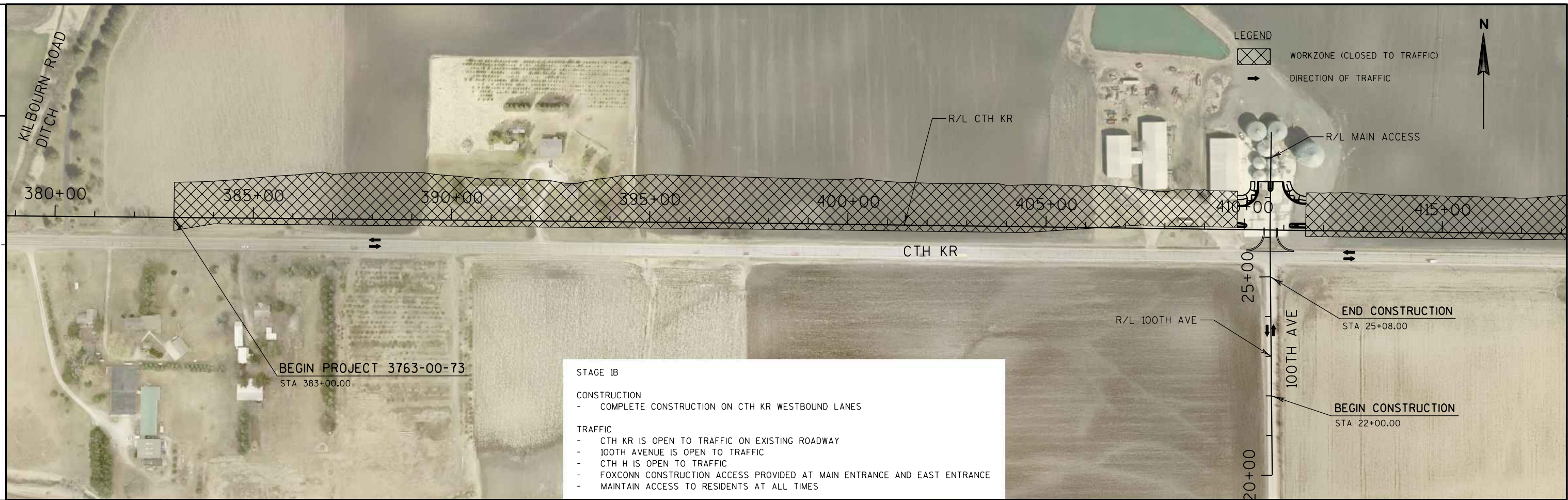


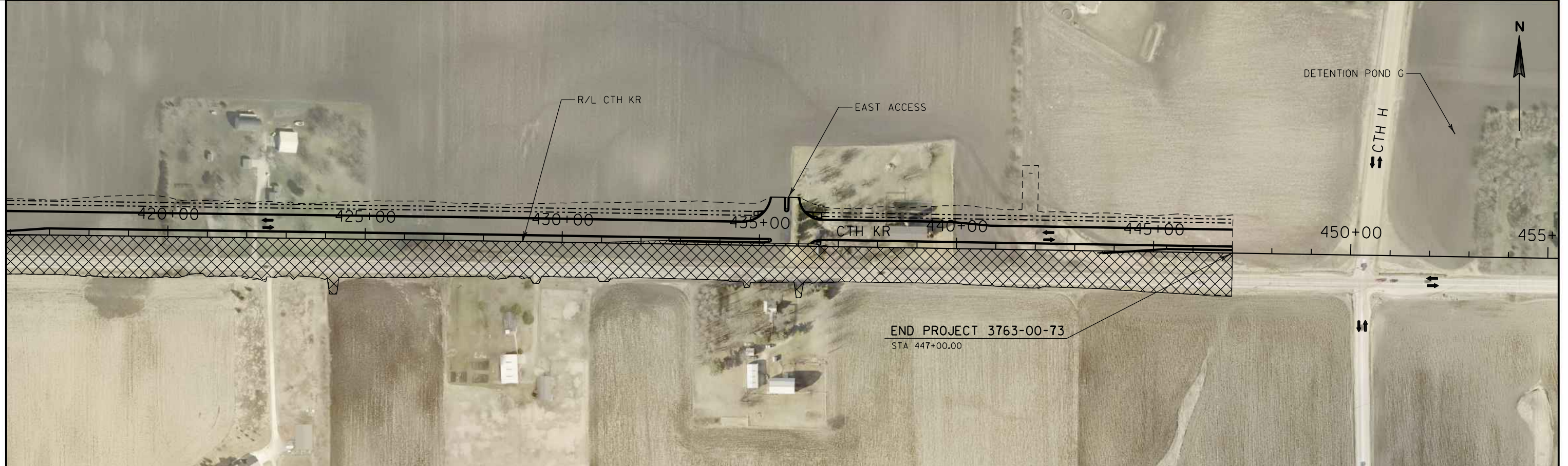
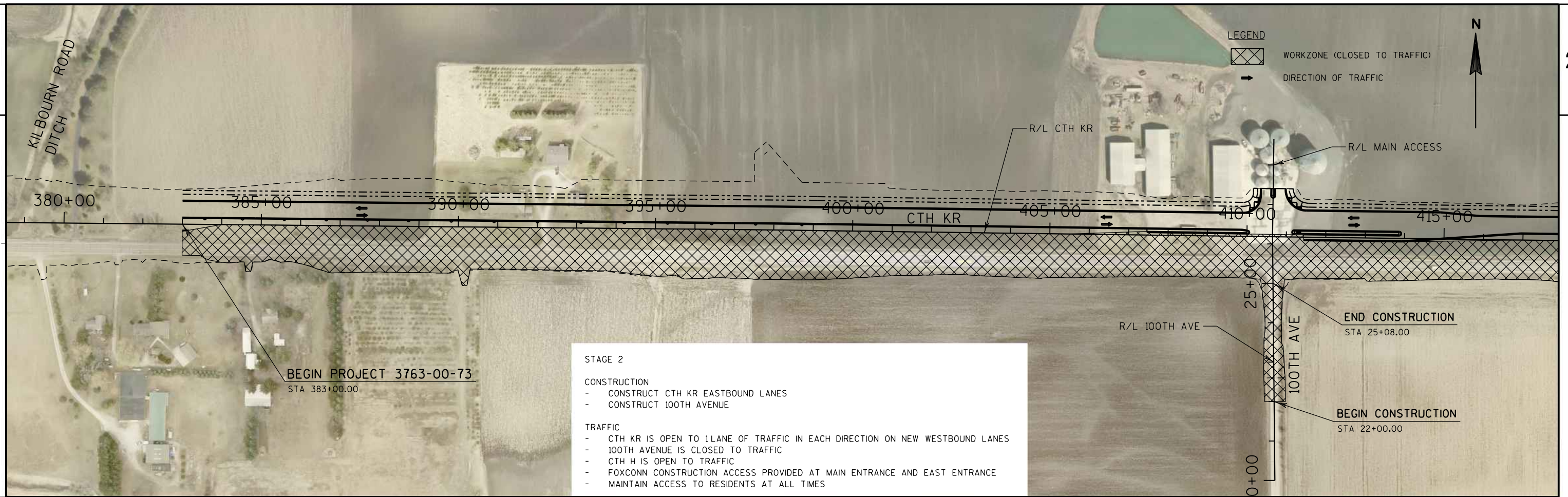


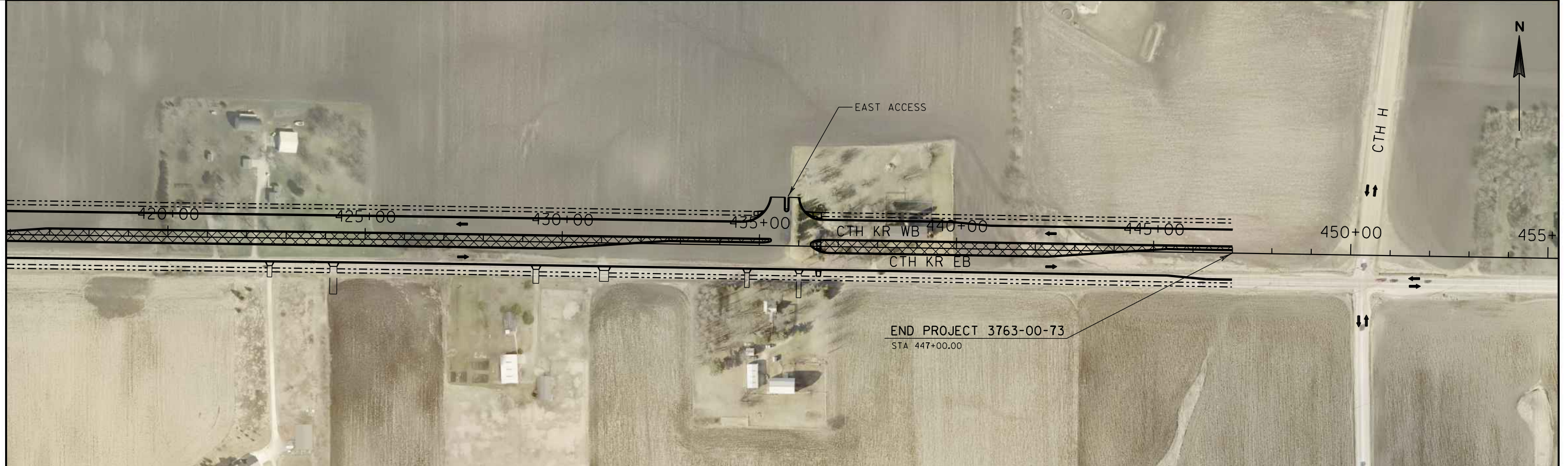
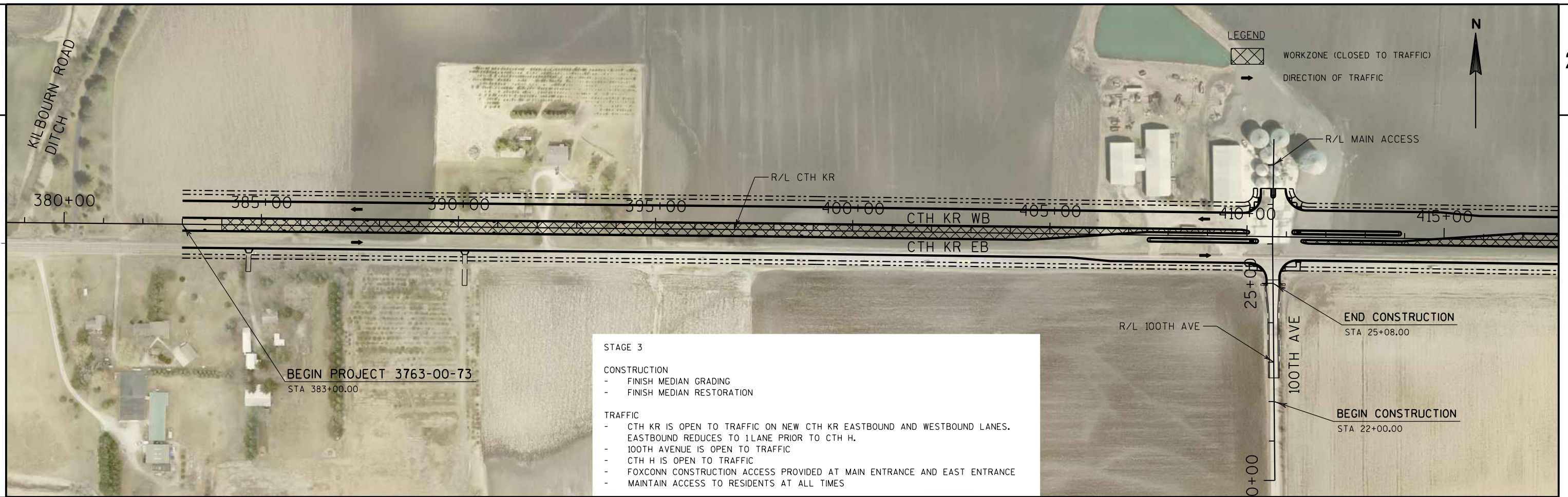


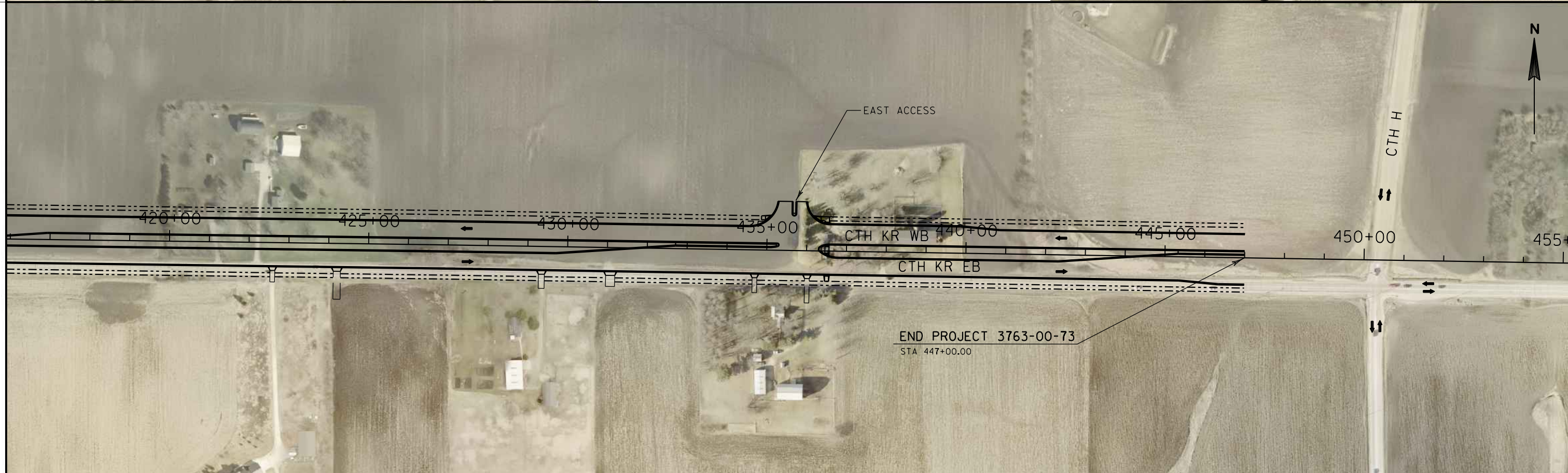
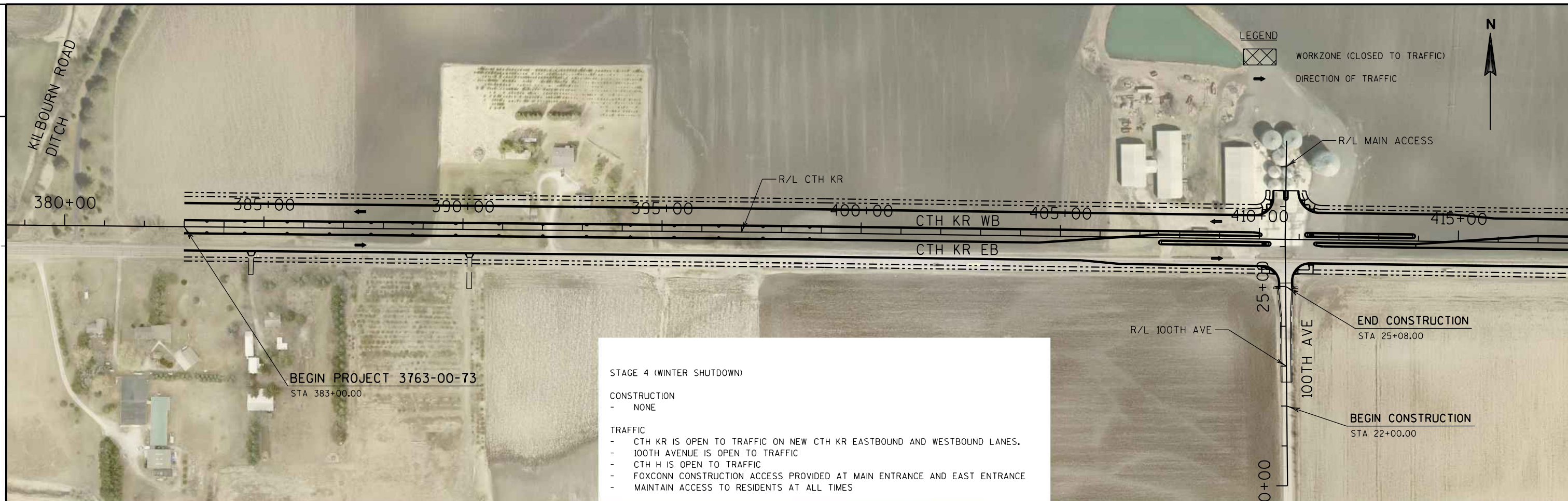


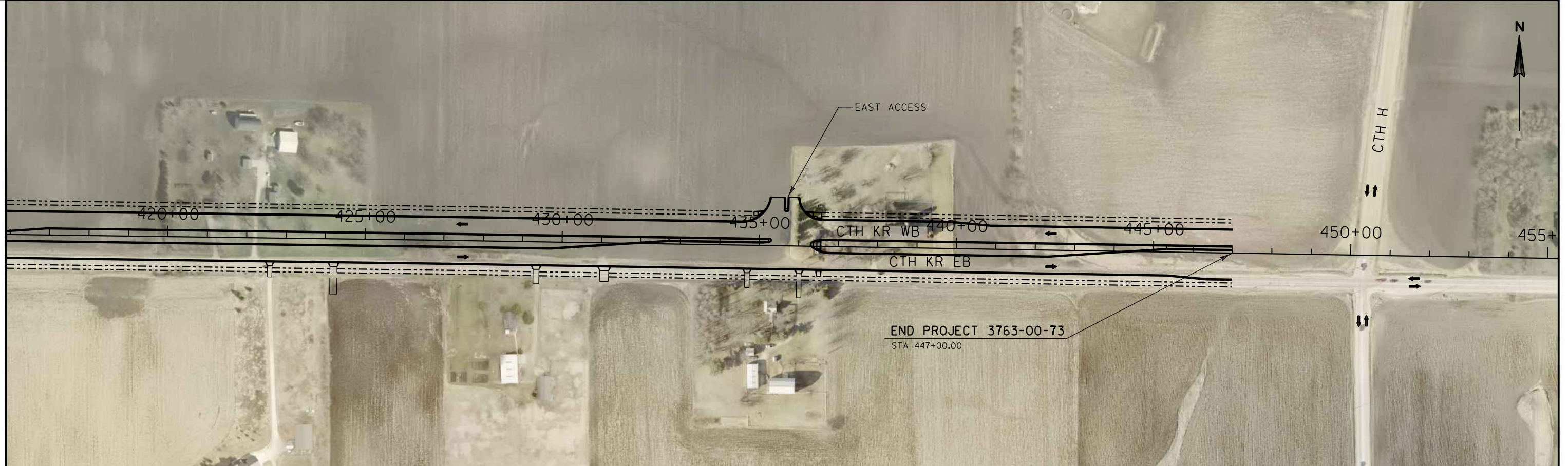
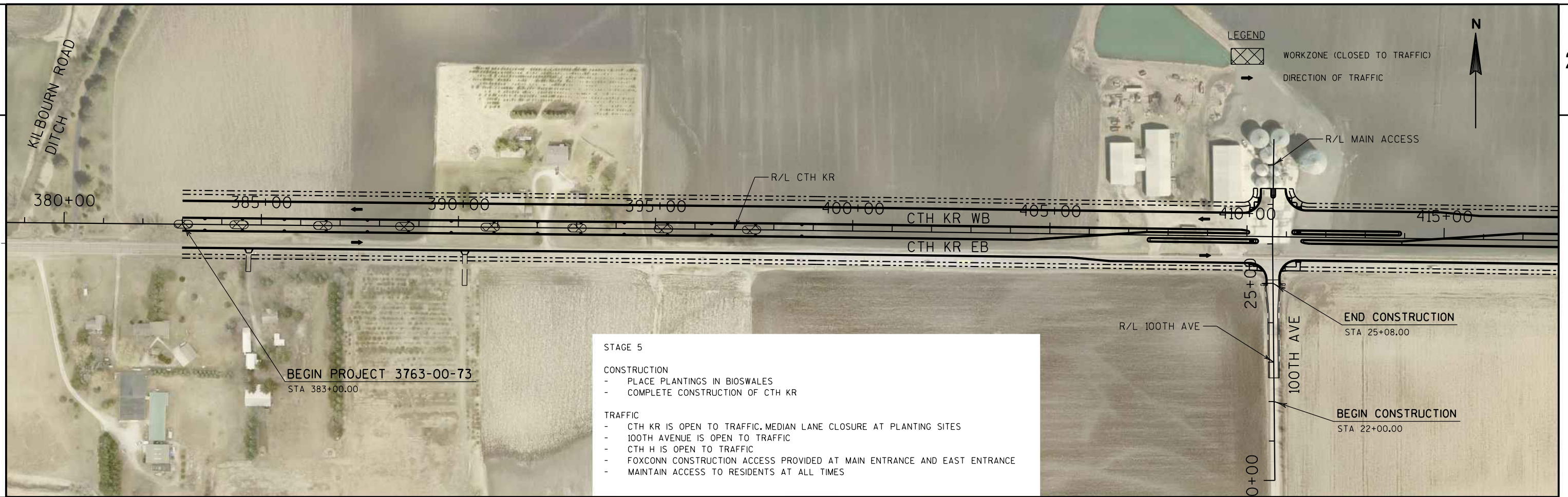












GENERAL NOTES FOR TRAFFIC CONTROL

- 1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGN DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 2) CONFLICTING TRAFFIC SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.
CONFLICTING SIGNS WILL BE COVERED USING THE STANDARD BID ITEM, TRAFFIC CONTROL COVERING SIGNS, TYPE II.
- 3) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- 4) FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.
- 5) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A (LOW INTENSITY FLASHING) LIGHTS.
- 6) WHEN A SEGMENT OF THE PROJECT IS NOT SHOWN ON THE STAGING PLANS, USE THE SAME TRAFFIC CONTROL AS THE PREVIOUS STAGE FOR THAT SEGMENT.
- 7) PAVEMENT MARKING THAT IS SHOWN SHADED ON TRAFFIC CONTROL PLANS ARE THERE FOR REFERENCE ONLY.
PAVEMENT MARKING SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 8) REMOVING PAVEMENT MARKING SHOULD BE PAID FOR UNDER THE FOLLOWING BID ITEMS:
REMOVING PAVEMENT MARKING ON EXISTING PAVEMENT USES THE CORRESPONDING STANDARD BID ITEM
REMOVING PAVEMENT MARKING ON NEW PAVEMENT USES THE 'MARKING REMOVAL LINE WATER BLASTING' BID ITEM
- 9) TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN.
- 10) ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
- 11) BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

TRAFFIC CONTROL LEGEND

- ↑

TRAFFIC CONTROL BARRICADES TYPE 3
WITH WARNING LIGHTS TYPE A
- ↑

TRAFFIC CONTROL BARRICADES TYPE 3
WITH WARNING LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- ⚡

TRAFFIC CONTROL DRUMS WITH
WARNING LIGHTS TYPE C
- └

SIGN ON PERMANENT SUPPORT
- └

SIGN ON TEMPORARY SUPPORT
- PCMS

TRAFFIC CONTROL SIGNS
PCMS
- ➡

TRAFFIC FLOW ARROW
- ⊠

WORK ZONE THIS STAGE
- ▶

TEMPORARY RAISED PAVEMENT MARKERS
- ⊙

TRAFFIC CONTROL FLEXIBLE TUBULAR
MARKER POSTS/BASES
- ▬▬▬

CONCRETE BARRIER TEMPORARY PRECAST
FROM PREVIOUS STAGE
- ▬▬▬

CONCRETE BARRIER TEMPORARY PRECAST
- CC

CRASH CUSHIONS TEMPORARY

TEMPORARY PAVEMENT MARKING LEGEND

- 23

TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 24

TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 25

TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 52

TEMPORARY MARKING STOP LINE PAINT 18-INCH
- P

PERMANENT PAVEMENT MARKINGS, SEE PAVEMENT
MARKING PLANS
- E

EXISTING PAVEMENT MARKINGS



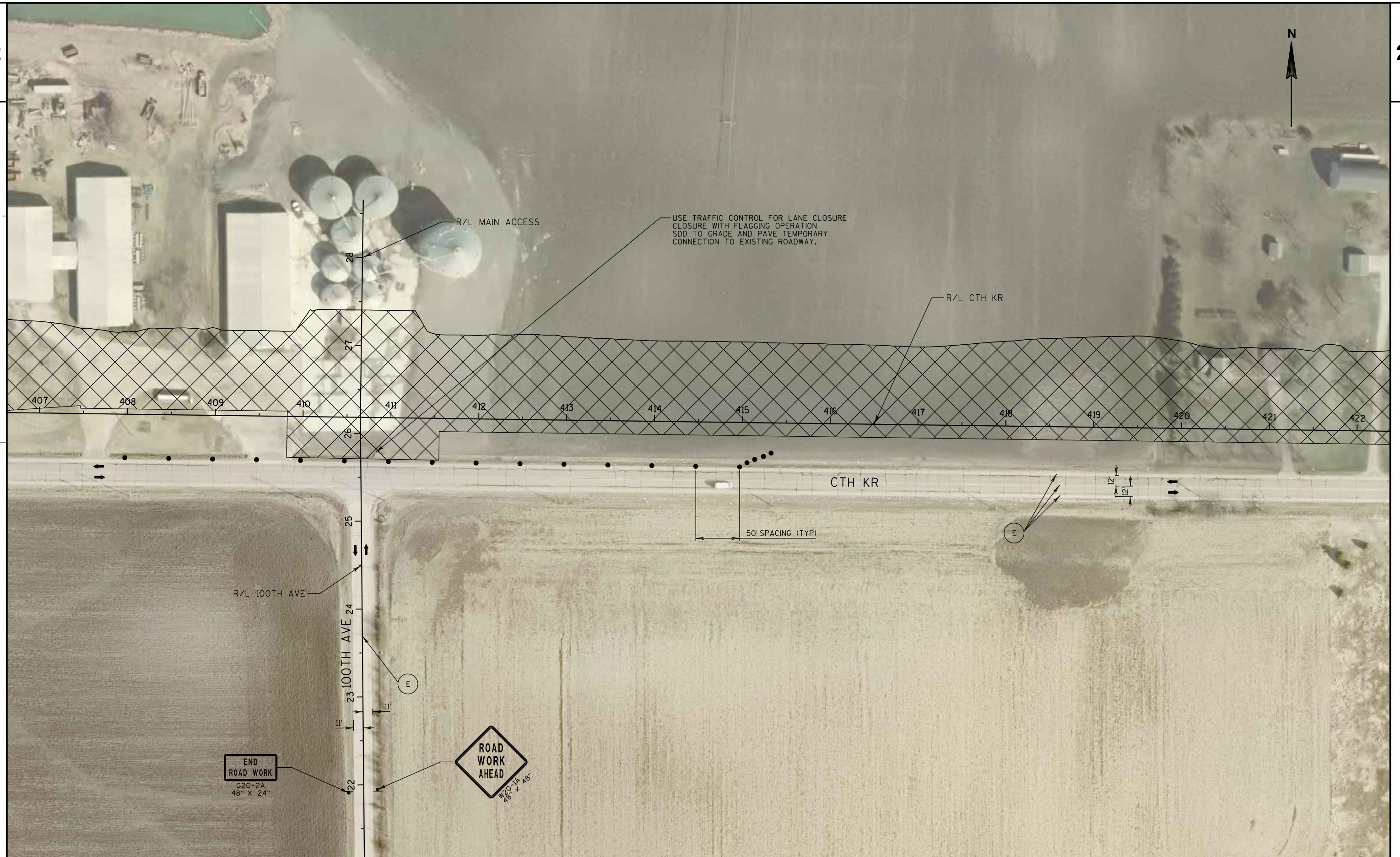




PROJECT NO: 3763-00-73	HWY: CTH KR	COUNTY: RACINE	TRAFFIC CONTROL STAGE 1A	SHEET	E
------------------------	-------------	----------------	--------------------------	-------	---

2

2



PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

TRAFFIC CONTROL STAGE 1A

SHEET

■

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\CTH KR\Plansheets\37630073\025105_TC.dgn

PLOT DATE : 7/31/2018

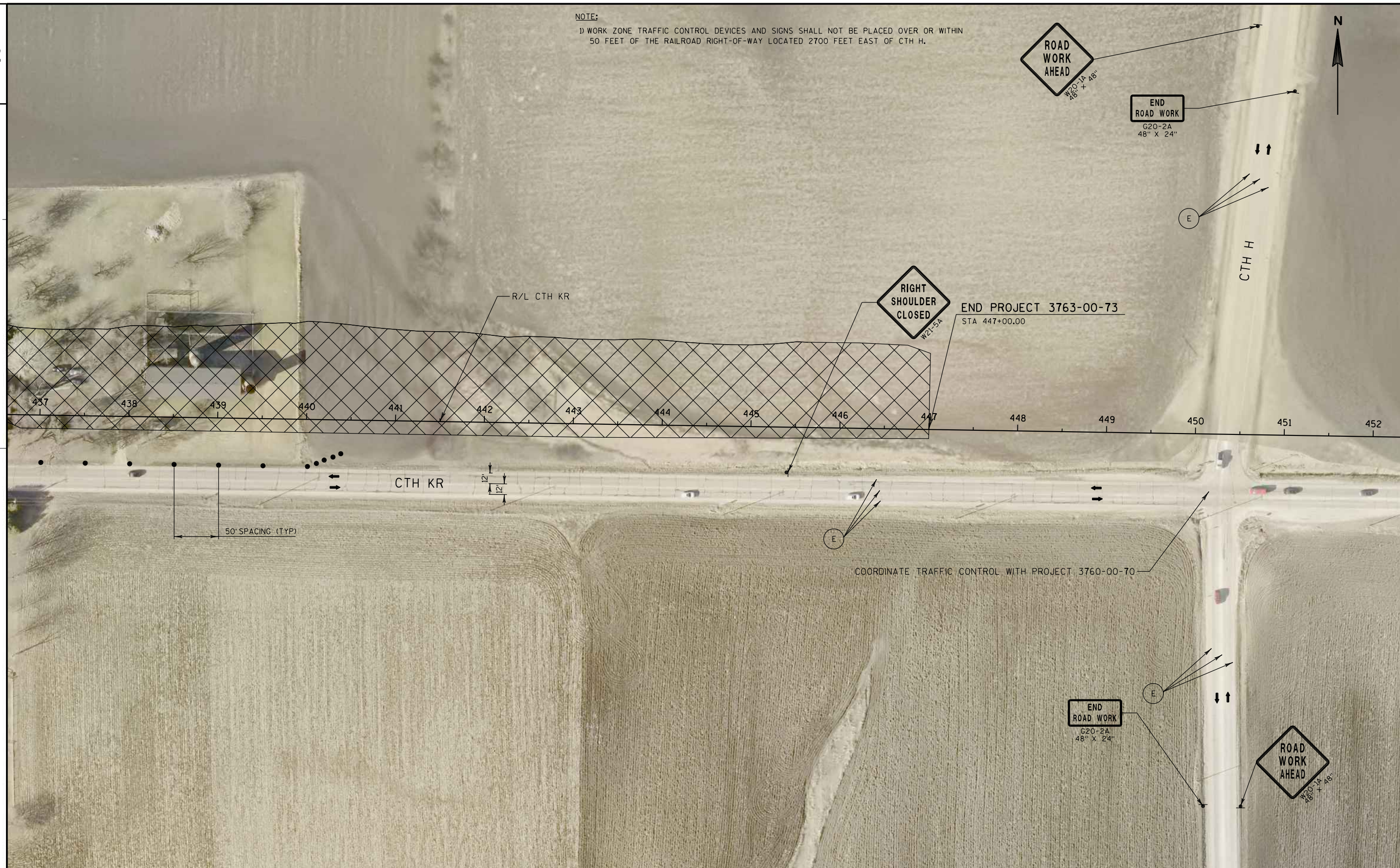
PLOT BY : wwolak

PLOT NAME :

PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42









PROJECT NO: 2704-00-73

HWY: CTH KR

COUNTY: RACINE

TRAFFIC CONTROL STAGE 1B

SHEET

E









PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

TRAFFIC CONTROL STAGE 1B

SHEET

E

FILE NAME : S:\DOT\DOT_SE\180045-Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\025136_TC.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

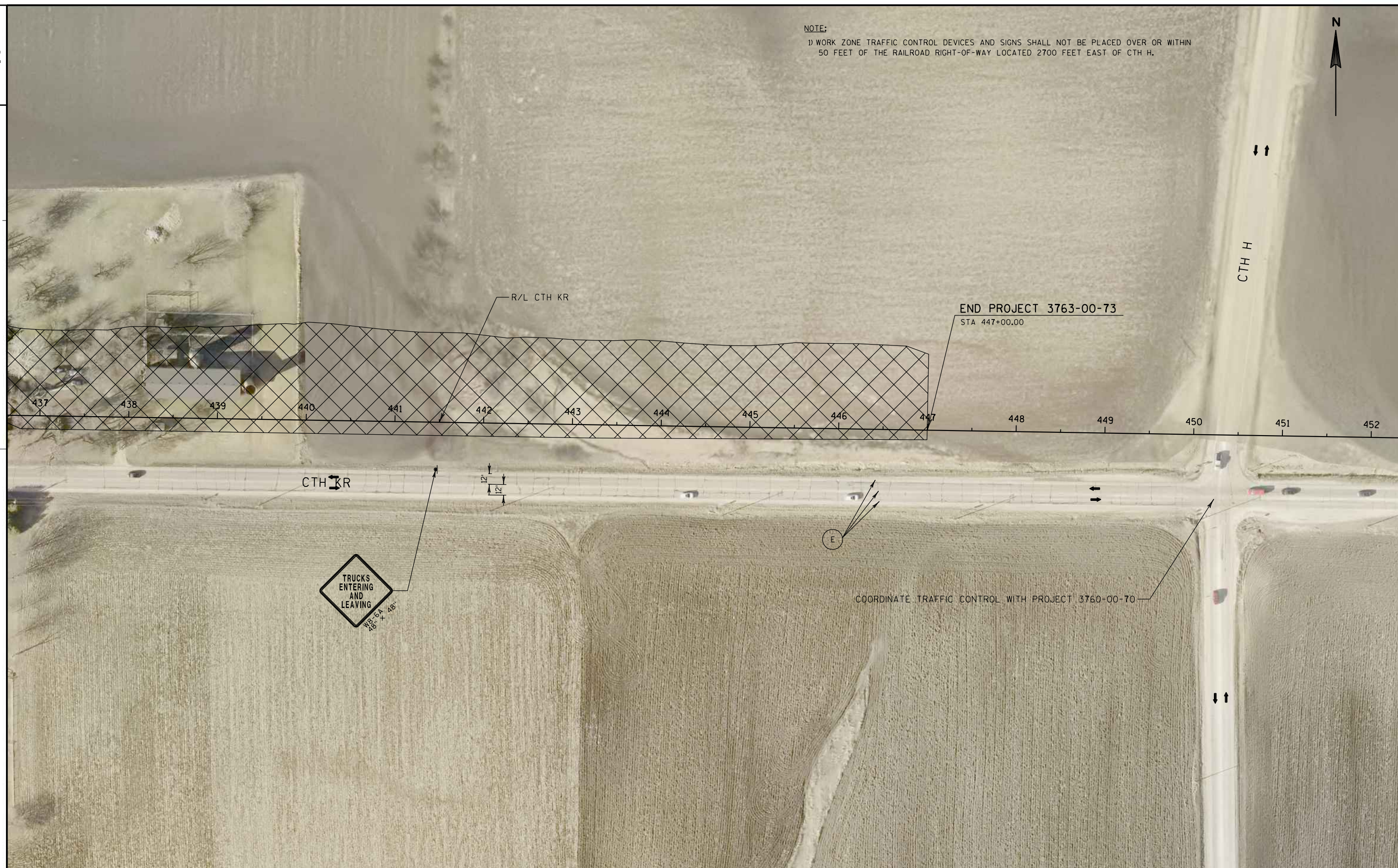
PLOT NAME :

PLOT SCALE : 1:100

WISDOT/CADDs SHEET 42

NOTE:

1) WORK ZONE TRAFFIC CONTROL DEVICES AND SIGNS SHALL NOT BE PLACED OVER OR WITHIN 50 FEET OF THE RAILROAD RIGHT-OF-WAY LOCATED 2700 FEET EAST OF CTH H.



PROJECT NO: 3763-00-73

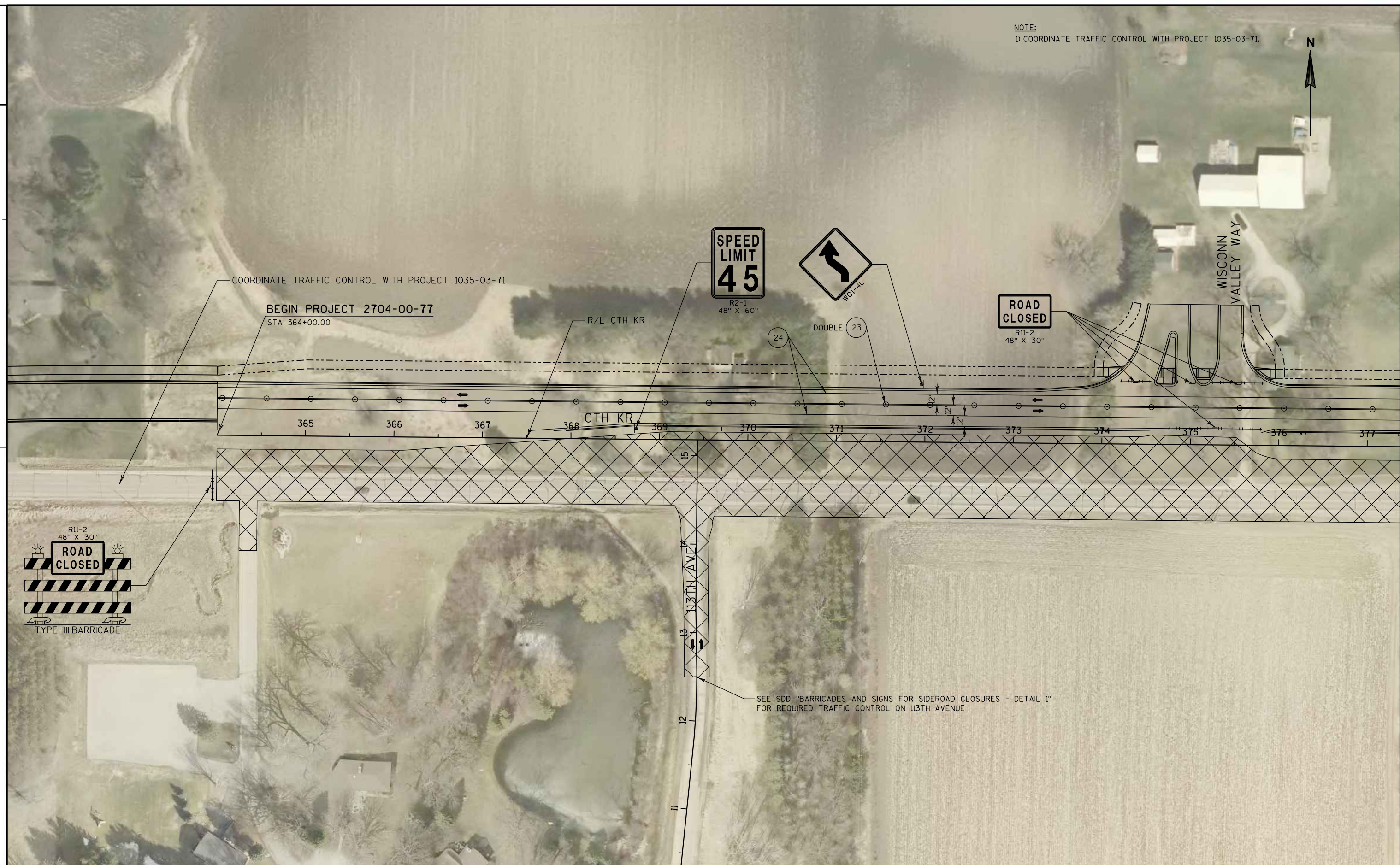
HWY: CTH KR

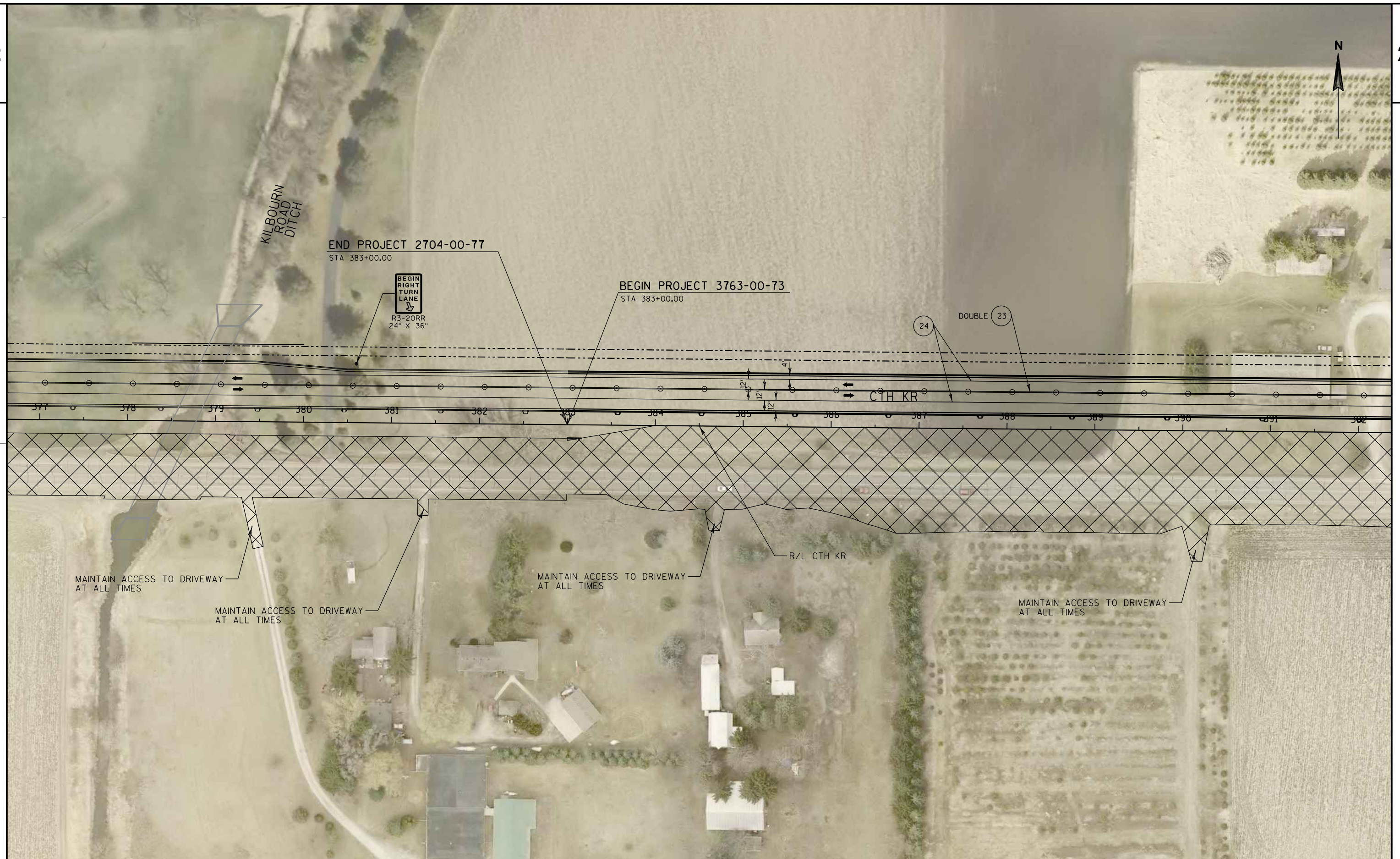
COUNTY: RACINE

TRAFFIC CONTROL STAGE 1B

SHEET

E





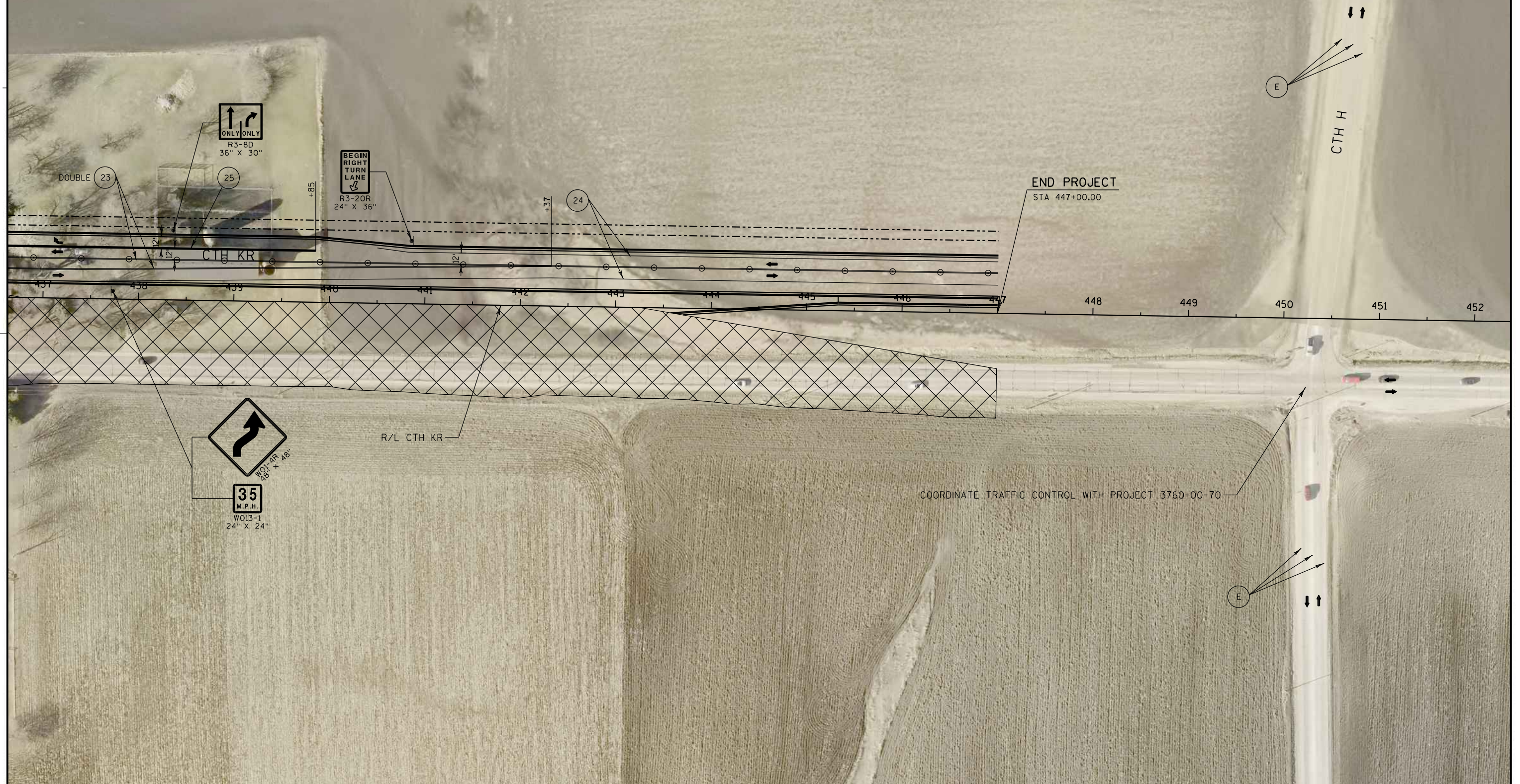






NOTE:

1) WORK ZONE TRAFFIC CONTROL DEVICES AND SIGNS SHALL NOT BE PLACED OVER OR WITHIN 50 FEET OF THE RAILROAD RIGHT-OF-WAY LOCATED 2700 FEET EAST OF CTH H.



PROJECT NO: 3763-00-73

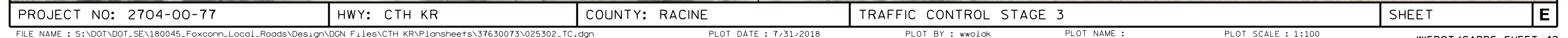
HWY: CTH KR

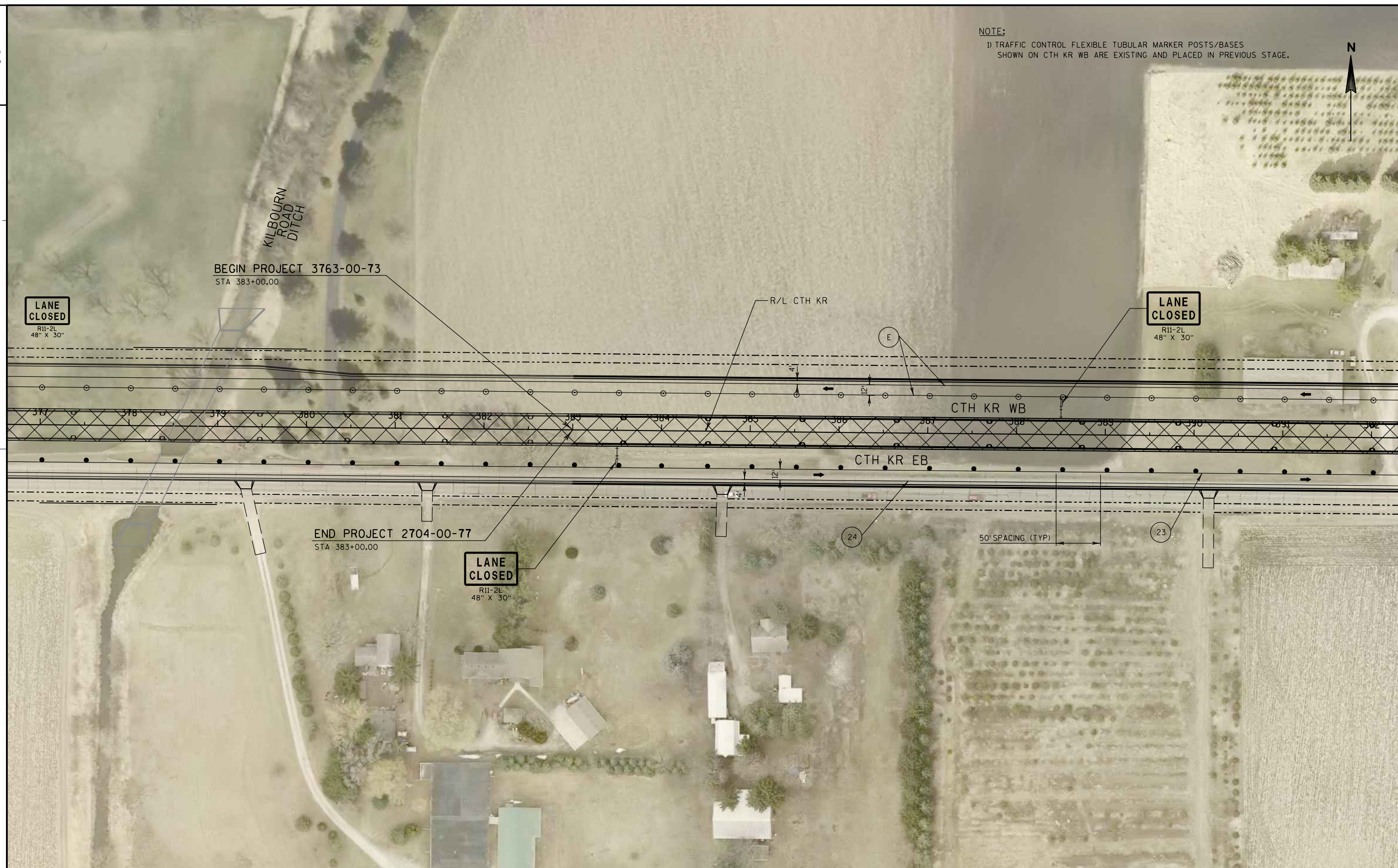
COUNTY: RACINE

TRAFFIC CONTROL STAGE 2

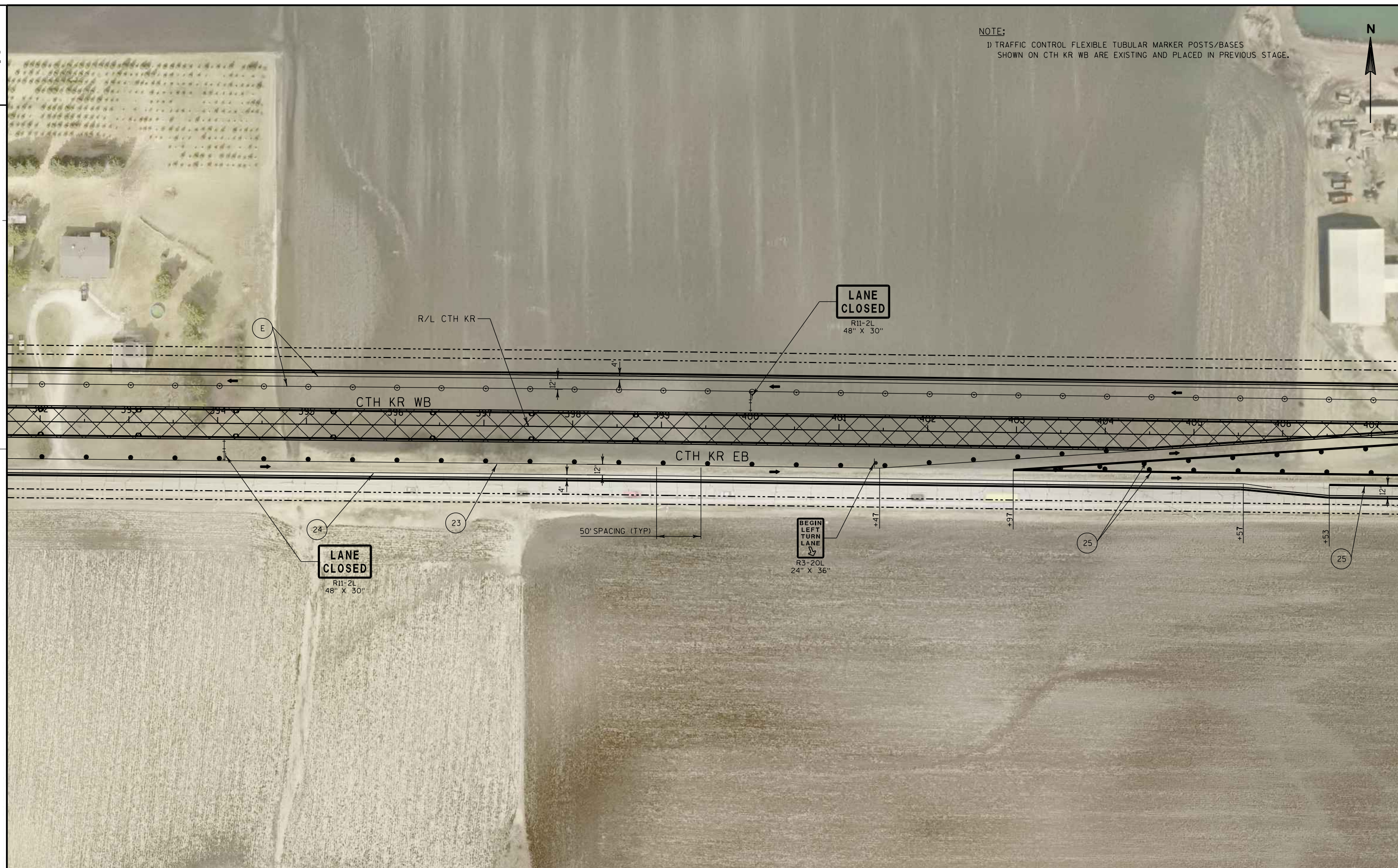
SHEET

E





NOTE:
1) TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
SHOWN ON CTH KR WB ARE EXISTING AND PLACED IN PREVIOUS STAGE.



PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

TRAFFIC CONTROL STAGE 3

SHEET

E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\025304_TC.dgn

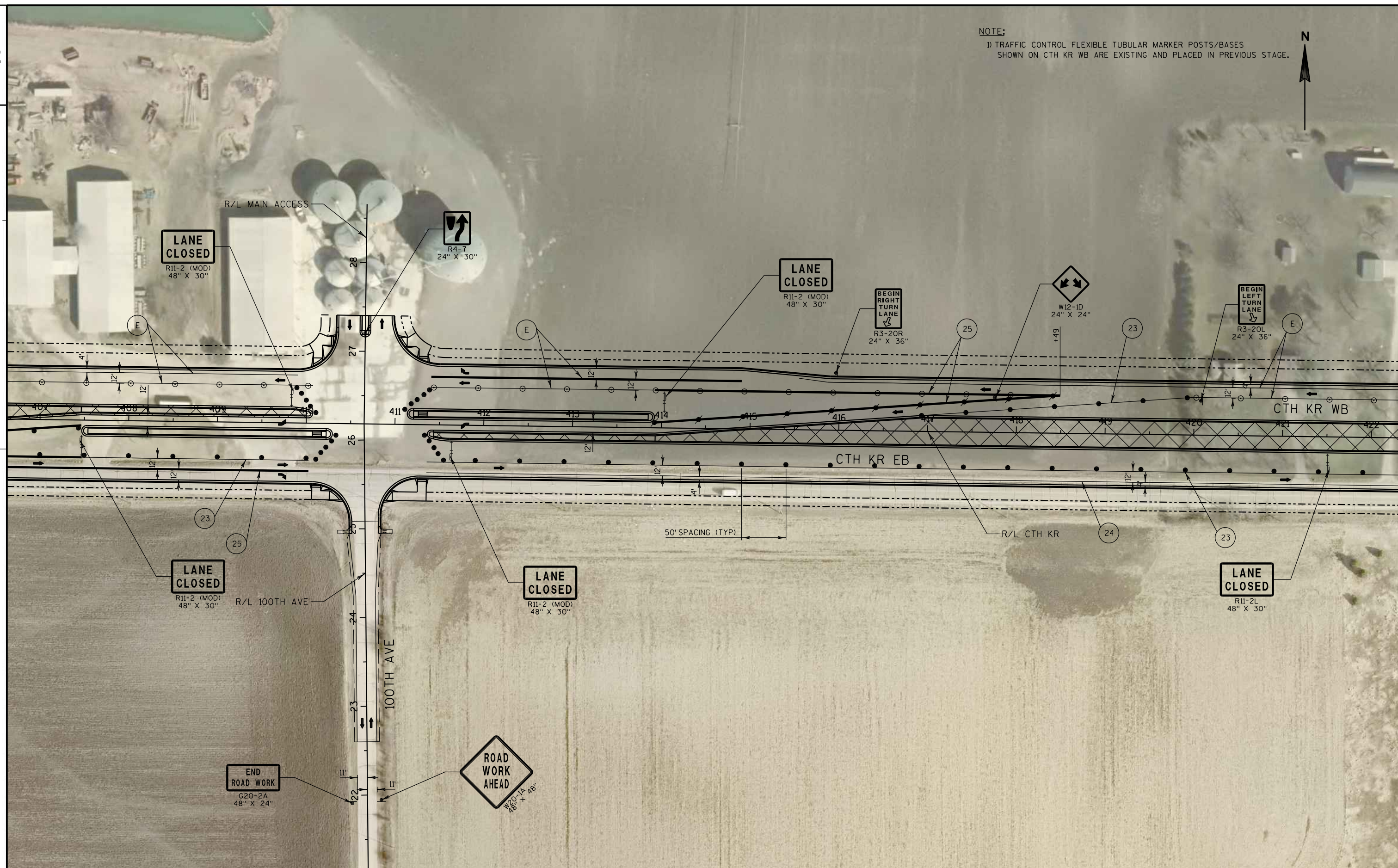
PLOT DATE : 7/31/2018

PLOT BY : wwolck

PLOT NAME :

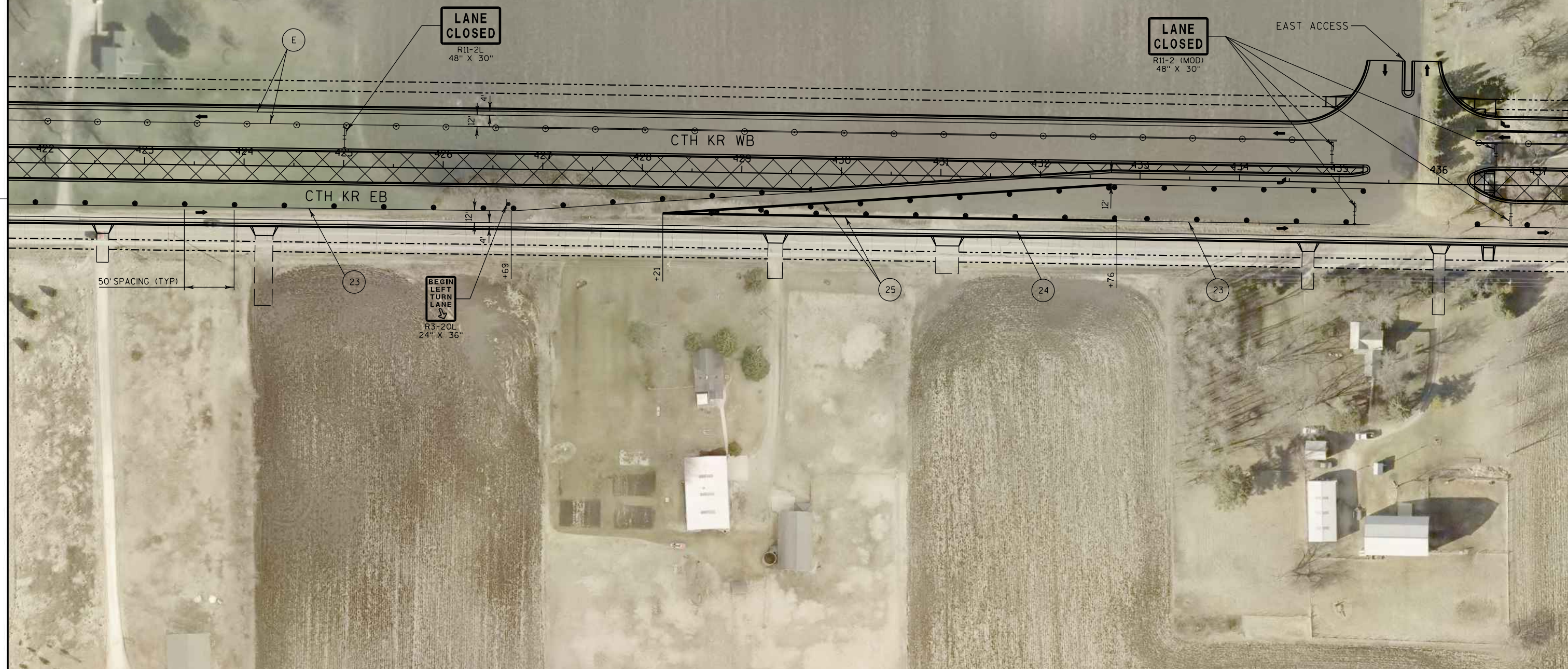
PLOT SCALE : 1:100

WISDOT/CADDs SHEET 42



NOTE:

1) TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
SHOWN ON CTH KR WB ARE EXISTING AND PLACED IN PREVIOUS STAGE.



PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

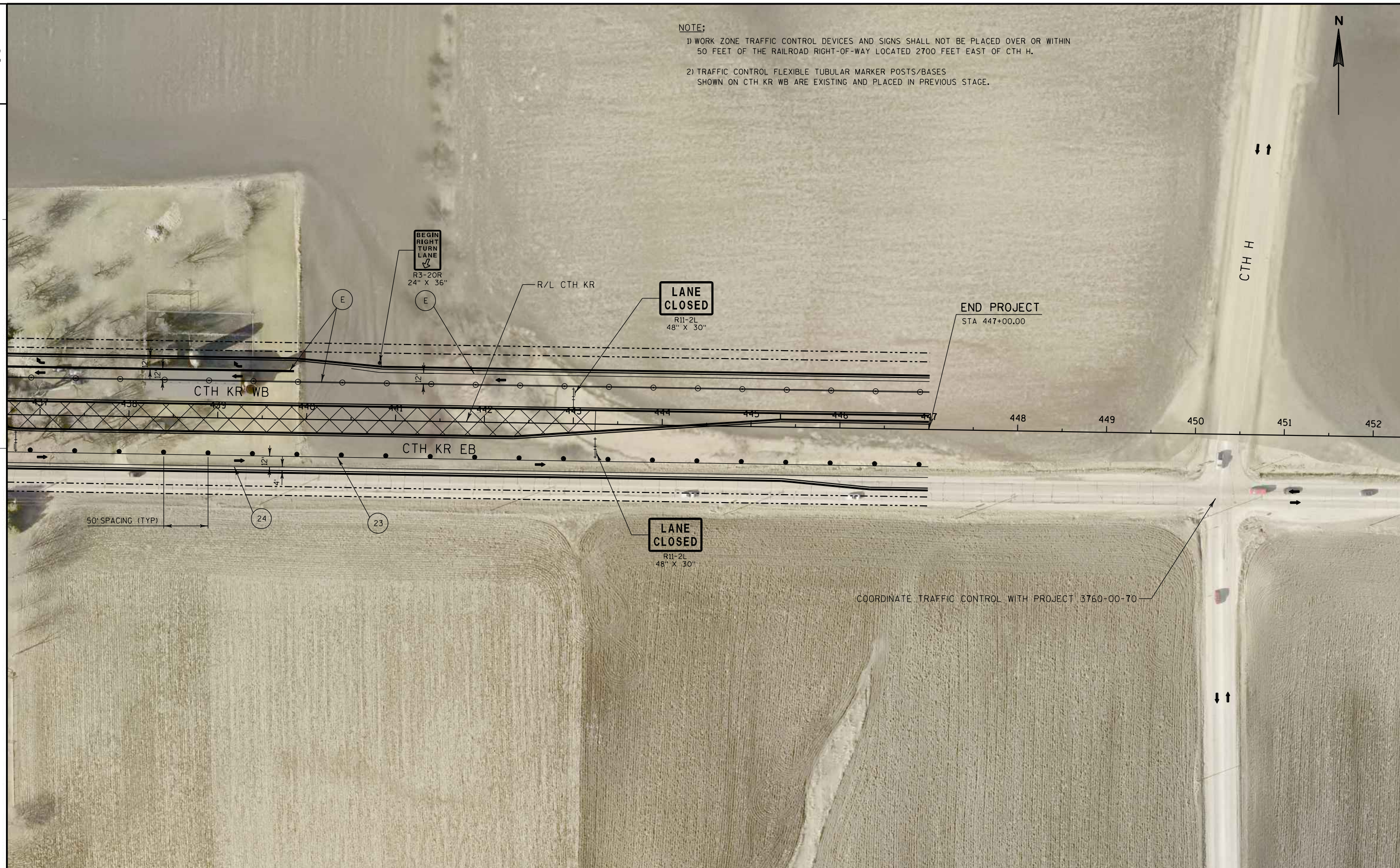
TRAFFIC CONTROL STAGE 3

SHEET

E

NOTE:

- 1) WORK ZONE TRAFFIC CONTROL DEVICES AND SIGNS SHALL NOT BE PLACED OVER OR WITHIN 50 FEET OF THE RAILROAD RIGHT-OF-WAY LOCATED 2700 FEET EAST OF CTH H.
- 2) TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES SHOWN ON CTH KR WB ARE EXISTING AND PLACED IN PREVIOUS STAGE.



PROJECT NO: 3763-00-73

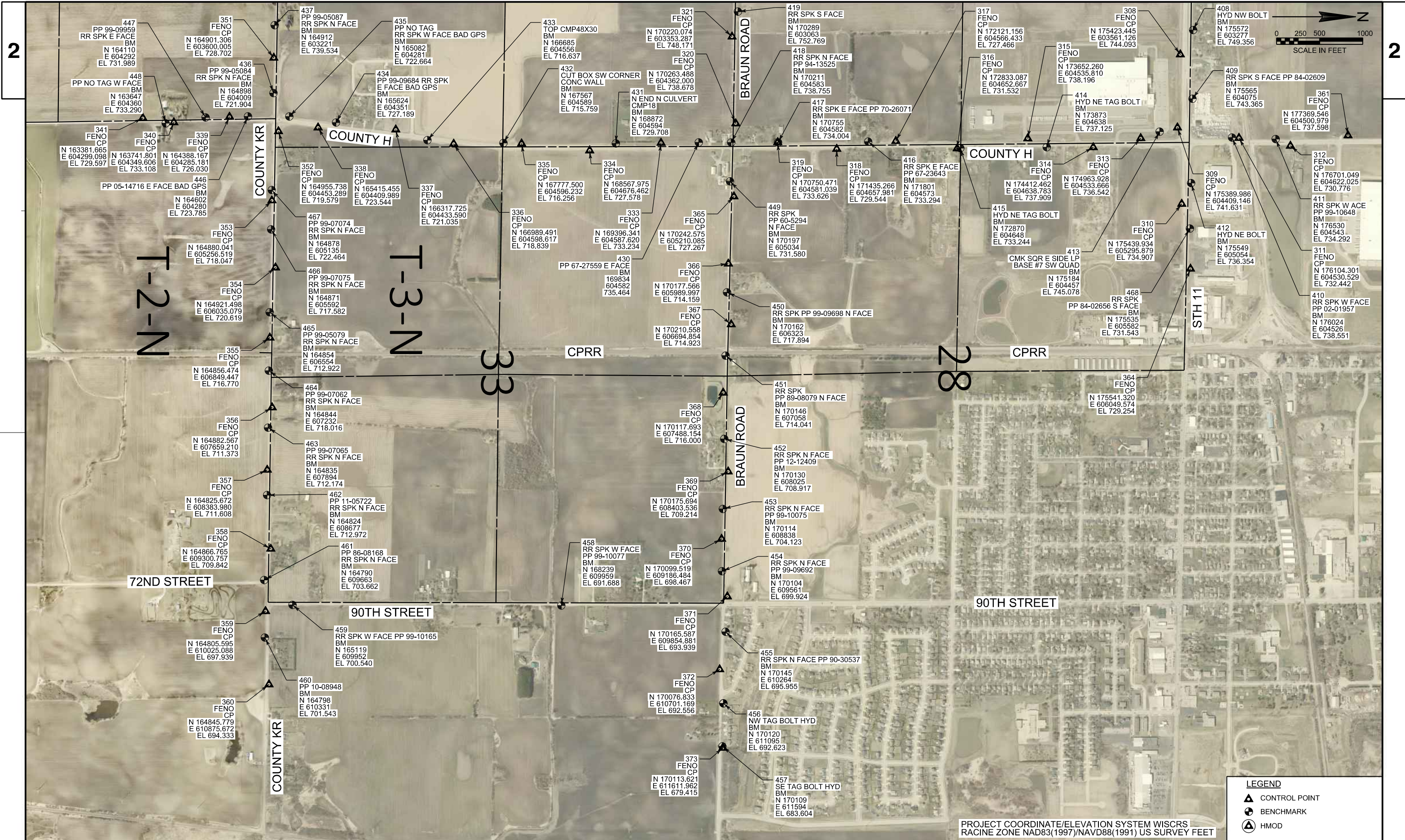
HWY: CTH KR

COUNTY: RACINE

TRAFFIC CONTROL STAGE 3

SHEET

E



PROJECT NO: FOXCONN DEVELOPMENT

HWY: VARIES

COUNTY: RACINE

CONTROL AND BENCHMARK OVERVIEW

SHEET

E

NOTE:
1) SEE CONTROL AND BENCHMARK OVERVIEW FOR BENCHMARKS

CURVE 113-1

PC=11+70.33
X=596218.01
Y=164748.86
PI=12+18.26
X=596222.89
Y=164796.54
PT=12+66.06
X=596222.04
Y=164844.45
R=800.0000
DELTA=6°51'22" LT
D=7°09'43"
L=95.7283
T=47.9213
BK=N 5°50'36" E
AH=N 1°00'46" W

STA 369+42.98 R/L CTH KR =
STA 15+17.92 R/L 113TH AVE

S89°26'33"E
3319.12'

PROPOSED R/W

R/L CTH KR

365

370

SECTION LINE S89°9'35"E 2527.25'

EXISTING R/W NO°33'27"E

191.34'

PROPOSED R/W

R/L 113TH AVE

N1°0'46"W

60.52'

BEGIN CONSTRUCTION

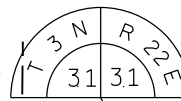
STA 12+50.00

CURVE 113-1

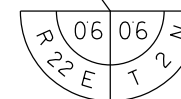
N5°50'36"E
170.33'

PI 13+26.59

QUARTER SECTION LINE S00°09'33"W 2632.94'



3158
S 31-3-22
X=596661.84
Y=165030.12



2002
N 2-2-22
X=596404.64
Y=165034.18

SECTION LINE S89°15'24"E 2659.00'

EXISTING R/W

PROPOSED TLE

PROPOSED TLE

END PROJECT 2704-00-77

STA 383+00.00

R/L WISCONN VALLEY WAY

PROPOSED PLE

STA 375+07.94 R/L CTH KR =
STA 499+91.60 R/L WISCONN VALLEY WAY

PROPOSED TLE

PROPOSED R/W

380

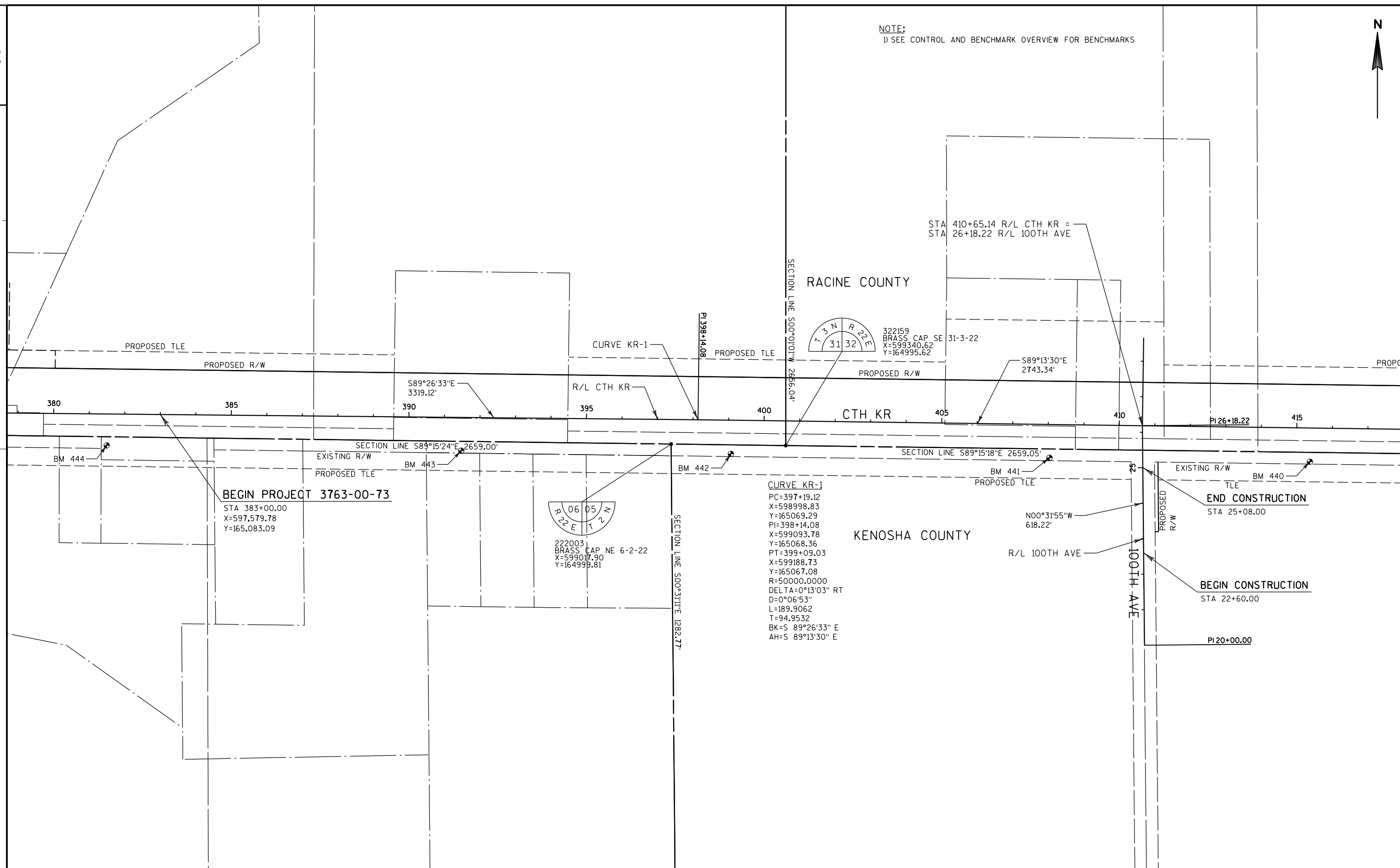
385

BEGIN PROJECT 2704-00-77

STA 364+00.00
X=595679.86
Y=165101.58

**NOTE:**

D SEE CONTROL AND BENCHMARK OVERVIEW FOR BENCHMARKS



PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

ALIGNMENT PLAN - CTH KR

SHEET

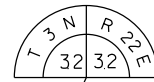
E

2

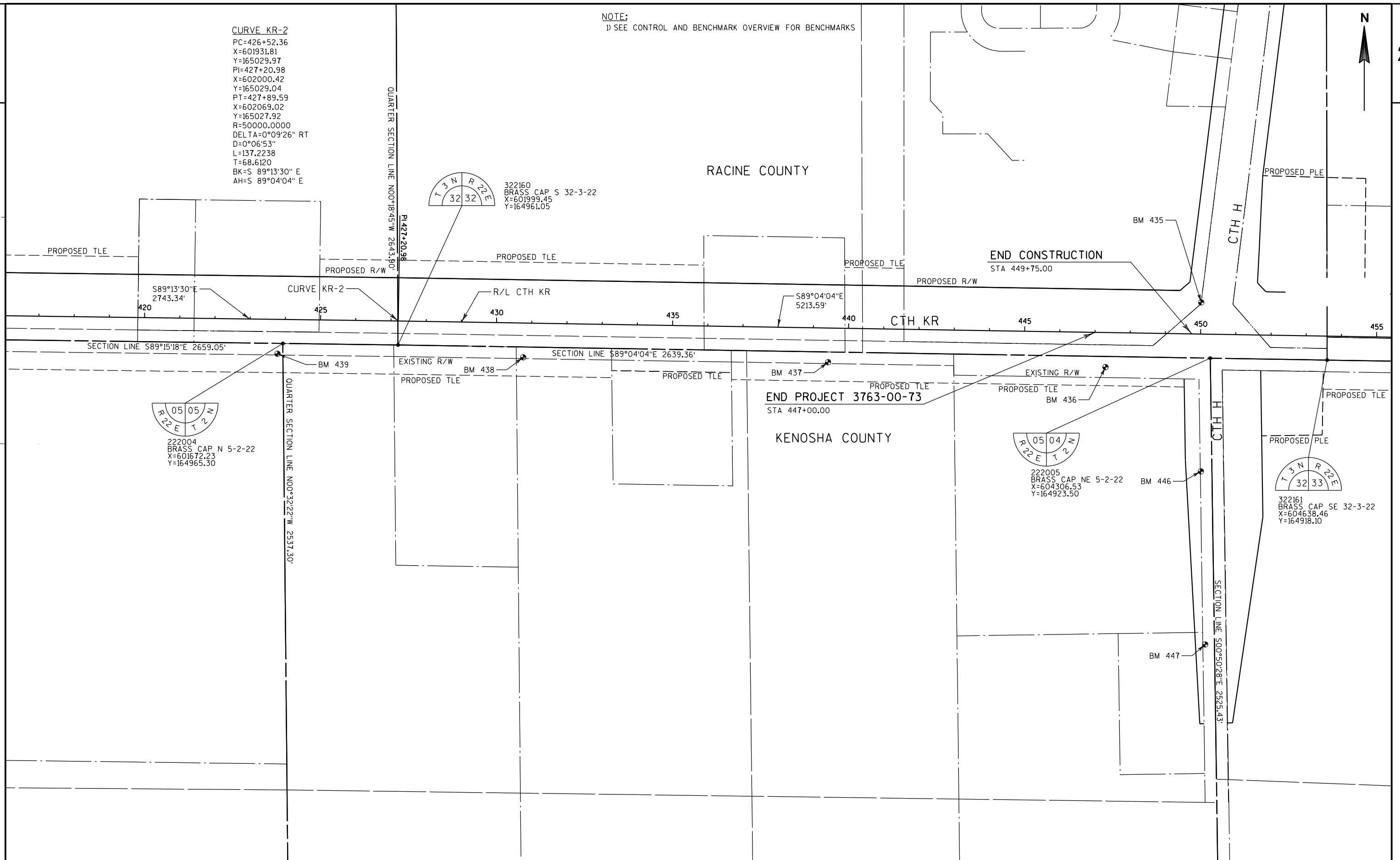
2

CURVE KR-2
PC=426+52.36
X=601931.81
Y=165029.97
PI=427+20.98
X=602000.42
Y=165029.04
PT=427+89.59
X=602069.02
Y=165027.92
R=50000.0000
DELTA=0°09'26" RT
D=0°06'53"
L=137.2238
T=68.6120
BK=S 89°13'30" E
AH=S 89°04'04" E

NOTE:
1) SEE CONTROL AND BENCHMARK OVERVIEW FOR BENCHMARKS



322160
BRASS CAP S 32-3-22
X=601999.45
Y=164961.05



PROJECT NO: 3763-00-73	HWY: CTH KR	COUNTY: RACINE	ALIGNMENT PLAN - CTH KR	SHEET	E
------------------------	-------------	----------------	-------------------------	-------	---

CPM PROGRESS SCHEDULE

		108.4400
		CPM PROGRESS SCHEDULE
LOCATION	EACH	
PROJECT 2704-00-77	0.3	
PROJECT 2704-00-77 TOTAL	0.3	

REMOVING SMALL PIPE CULVERT

203.0100				
REMOVING SMALL PIPE CULVERT				
STATION	OFFSET	LOCATION	EACH	NOTE
364+25	RT	CTH KR	2	CMCP 44', RCCP 31'
368+18	RT	CTH KR	1	CMCP 47', 24"
369+81	RT	CTH KR	1	CMCP 21', 12"
373+56	RT	CTH KR	1	CMCP 31', 12"
379+45	RT	CTH KR	1	CMCP 31', 12"
380+29	RT	CTH KR	1	CMCP 21', 12"
381+50	RT	CTH KR	1	CMCP 25', 14"
PROJECT 2704-00-77 TOTAL			8	--

REMOVING CRASH CUSHION / CONCRETE BARRIER TEMPORARY

			204.9060.S.001	204.9090.S.003
			REMOVING CRASH CUSHION TEMPORARY LEFT IN PLACE	REMOVING CONCRETE BARRIER TEMPORARY
STATION	OFFSET	LOCATION	EACH	LF
STAGE 2				
377+50	81' RT	CTH KR	1	--
377+50	41' RT	CTH KR	1	--
377+50 - 379+50	41' RT	CTH KR	--	200
377+50 - 379+00	81' RT	CTH KR	--	150
379+00	81' RT	CTH KR	1	--
379+50	41' RT	CTH KR	1	--
STAGE 2 SUBTOTAL			4	350
PROJECT 2704-00-77 TOTAL			4	350

CLEARING AND GRUBBING

		201.0105		201.0205		201.0120		201.0220	
		CLEARING		GRUBBING		CLEARING		GRUBBING	
STATION	OFFSET	LOCATION	STA	STA		ID		ID	
STAGE 1 A + B									
367+00 - 371+00	LT	CTH KR	4	4		--		--	
374+00 - 377+00	LT	CTH KR	3	3		--		--	
380+00 - 383+00	LT	CTH KR	3	3		--		--	
STAGE 1 SUBTOTAL			10	10		0		0	
STAGE 2									
367+00 - 369+00	RT	CTH KR	2	2		--		--	
370+00 - 372+00	RT	CTH KR	2	2		--		--	
373+90	25' RT	CTH KR	--	--		16		16	
373+95	15' RT	CTH KR	--	--		16		16	
374+18	25' RT	CTH KR	--	--		36		36	
375+17	12' RT	CTH KR	--	--		14		14	
375+50	5' RT	CTH KR	--	--		30		30	
375+75	22' RT	CTH KR	--	--		24		24	
376+02	25' RT	CTH KR	--	--		24		24	
376+42	20' RT	CTH KR	--	--		20		20	
376+54	14' RT	CTH KR	--	--		30		30	
376+62	4' RT	CTH KR	--	--		30		30	
380+00 - 383+00	RT	CTH KR	3	3		--		--	
STAGE 2 SUBTOTAL			7	7		240		240	
PROJECT 2704-00-77 TOTAL			17	17		240		240	

REMOVING DRAINTILE / UNDERDRAIN

		204.9090.S.001		204.9090.S.002	
		REMOVING DRAINTILE		REMOVING UNDERDRAIN	
LOCATION		LF		LF	
UNDISTRIBUTED		1,500		1,000	
PROJECT 2704-00-77 TOTAL		1,500		1,000	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

EARTHWORK

				205.0100 EXCAVATION COMMON (1) (5)		SPV.0035.001 EBS EXCAVATION (2)	SPV.0035.002 EBS BACKFILL	SPV.0035.003 ROADWAY EMBANKMENT (3)		
CATEGORY	DIVISION	ROADWAY	FROM / TO STATION	CUT (CY)	TOPSOIL REMOVAL (CY)	CY	CY	FILL (CY)	CY	MASS ORDINATE +/- (4)
1000	1A	CTH KR - TRIB RELOCATION (6)	364+00 RT to 368+64 RT	265	0	0	0	308	308	-43
		CTH KR	UNDISTRIBUTED	0	0	0	0	0	0	0
		SUBTOTAL		265	0	0	0		308	-43
		DIVISION 1A TOTAL		265						
1000	1B	CTH KR WB	364+00 to 383+00	1,744	18,487	0	0	18,249	36,736	-16,505
		CTH KR WB	UNDISTRIBUTED	0	0	5,058	5,058	0	0	0
		SUBTOTAL		1,744	18,487	5,058	5,058		36,736	-16,505
		DIVISION 1B TOTAL		20,231						
1000	2	CTH KR EB	364+00 to 383+00	2,665	10,665	0	0	13,205	23,870	-10,540
		113TH AVENUE	12+50 to 14+19	85	0	0	0	131	131	-46
		CTH KR EB	UNDISTRIBUTED	0	0	3,333	3,333	0	0	0
		SUBTOTAL		2,750	10,665	3,333	3,333		24,001	-10,586
		DIVISION 2 TOTAL		13,415						
PROJECT 2704-00-77 TOTALS				33,911		8,390	8,390		61,045	-27,134

- 1) Cut Volume Includes Concrete and Asphaltic Surface Material.
- 2) EBS Excavation to be backfilled with EBS Backfill. All EBS Excavation material is assumed to be wasted offsite.
- 3) Roadway Embankment = Unexpanded Fill + Topsoil Removal Replaced
- 4) The Mass Ordinate + or - quantity calculated by Division. A positive quantity indicates an excess of material within the division and a negative number indicates a shortage of material within the division. Mass Ordinate = Cut+Topsoil Removal-Embankment. The mass ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balance for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite.
- 5) Topsoil thickness estimated, refer to Topsoil Removal Construction Detail
- 6) Temporary Berm (used twice) accounted for within this quantity of Roadway Embankment

FINISHING ROADWAY

		213.0100.001 FINISHING ROADWAY PROJECT ID 2704-00-77
LOCATION		EACH
PROJECT 2704-00-77		1
PROJECT 2704-00-77 TOTAL		1

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

AGGREGATE ITEMS

STATION TO		STATION	OFFSET	ROADWAY	305.0110 BASE AGGREGATE DENSE 3/4 INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4 INCH TON	311.0110 BREAKER RUN TON	371.1000.S QMP BASE AGGREGATE DENSE 1 1/4 INCH COMPACTION TON	REMARKS
STAGE 1B									
364+00	-	383+00	LT	CTH KR	--	4526	10,860	4,526	
374+06	-	375+96	LT	CTH KR	--	13	--	13	4" BENEATH CONCRETE SIDEWALK
374+60	-	374+82	LT	WWV	--	46	--	46	ADTN'L 10" BENEATH MEDIAN CONCRETE
376+00	-	383+00	MED - LT	CTH KR	--	2	--	2	BIOSWALE DRAIN EXTENSION
STAGE 1B SUBTOTAL					0	4587	10,860	4,587	
STAGE 2									
364+00	-	383+00	RT	CTH KR	--	4502	10,809	4,502	
	364+35		RT	CTH KR DRIVEWAY	--	141	--	141	
	364+35		RT	CTH KR DRIVEWAY - SHOULDER	--	46	--	46	
	364+35		RT	CTH KR - DRIVEWAY ACCESS	--	76	--	76	
368+96	-	369+90	RT	CTH KR	--	8	--	8	4" BENEATH CONCRETE SIDEWALK
369+70	-	374+88	LT	CTH KR	--	202	--	202	ADTN'L 10" BENEATH MEDIAN CONCRETE
	379+74		RT	CTH KR	--	4	--	4	4" BENEATH CONCRETE SIDEWALK
	379+30		RT	CTH KR DRIVEWAY	--	65	--	65	6" BENEATH APRON INCLUDED
	379+30		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
	381+35		RT	CTH KR DRIVEWAY	--	34	--	34	6" BENEATH APRON INCLUDED
	381+35		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
376+00	-	383+00	RT	CTH KR	--	2	--	2	BIOSWALE DRAIN EXTENSION
12+00	-	14+19	LT/RT	113TH AVE	--	260	--	260	
12+50	-	14+00	LT	113TH AVE	21	63	--	63	SHOULDER
12+50	-	14+00	RT	113TH AVE	21	63	--	63	SHOULDER
STAGE 2 SUBTOTAL					42	5,604	10,809	5,604	
SUBTOTAL					42	10,191	21,669	10,191	
UNDISTRIBUTED					6	1,529	3,250	1,529	
PROJECT 2704-00-77 TOTAL					48	11,720	24,919	11,720	

NOTE:
BASE AGGREGATE DENSE = 2 TON/CY
BREAKER RUN = 1.8 TON/CY

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONCRETE PAVEMENT

					415.0100 CONCRETE PAVEMENT 10-INCH SY
STATION TO STATION OFFSET LOCATION					
STAGE 1B					
364+00	-	383+00	LT	CTH KR	10,590
STAGE 1B SUBTOTAL					10,590
STAGE 2					
364+00	-	383+00	RT	CTH KR	10,790
STAGE 2 SUBTOTAL					10,790
PROJECT 2704-00-77 TOTAL					21,380

CONCRETE PAVEMENT JOINT LAYOUT

		415.5110.S.001 CONCRETE PAVEMENT JOINT LAYOUT
	LOCATION	LS
PROJECT 2704-00-77	CTH KR	1
PROJECT 2704-00-77 TOTAL		1

CONCRETE PAVEMENT GAPS

			415.0210 CONCRETE PAVEMENT GAPS EA
STATION	OFFSET	LOCATION	
STAGE 2			
364+25	RT	CTH KR - DRIVEWAY	1
379+25	RT	CTH KR - DRIVEWAY	1
381+30	RT	CTH KR - DRIVEWAY	1
STAGE 2 SUBTOTAL			3
PROJECT 2704-00-77 TOTAL			3

NOTE: CONCRETE PAVEMENT GAPS NOT PROVIDED AT FIELD ENTRANCES

DRILLED DOWEL BARS

				416.0620 DRILLED DOWEL BARS
STA	OFFSET	LOCATION	EACH	
364+00	RT	CTH KR	38	
364+00	LT	CTH KR	38	
PROJECT 2704-00-77 TOTAL			76	

CONCRETE DRIVEWAY

				416.0260 CONCRETE DRIVEWAY HES 6-INCH SY
STATION	OFFSET	LOCATION		
STAGE 2				
364+25	RT	CTH KR	34	
379+25	RT	CTH KR	18	
381+30	RT	CTH KR	17	
STAGE 2 SUBTOTAL			69	
PROJECT 2704-00-77 TOTAL			69	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONCRETE SURFACE DRAINS

				416.1010 CONCRETE SURFACE DRAINS
STATION	OFFSET	LOCATION	CY	
STAGE 1B				
376+26	MED - LT	CTH KR	0.9	
377+36	MED - LT	CTH KR	0.9	
378+35	MED - LT	CTH KR	0.9	
379+46	MED - LT	CTH KR	0.9	
380+44	MED - LT	CTH KR	0.9	
381+54	MED - LT	CTH KR	0.9	
382+50	MED - LT	CTH KR	0.9	
STAGE 1B SUBTOTAL			6.3	
STAGE 2				
376+26	MED - RT	CTH KR	0.9	
377+36	MED - RT	CTH KR	0.9	
378+35	MED - RT	CTH KR	0.9	
379+46	MED - RT	CTH KR	0.9	
380+44	MED - RT	CTH KR	0.9	
381+54	MED - RT	CTH KR	0.9	
382+50	MED - RT	CTH KR	0.9	
STAGE 2 SUBTOTAL			6.3	
PROJECT 2704-00-77 TOTAL			12.6	

ASPHALT

				455.0605 TACK COAT	460.6223 HMA PAVEMENT 3 MT 58-28 S	460.6224 HMA PAVEMENT 4 MT 58-28 S	465.0105 ASPHALTIC SURFACE	465.0310 ASPHALTIC CURB	465.0315 ASPHALTIC FLUME	REMARKS
STATION	TO STATION	OFFSET	LOCATION	GAL	TON	TON	TON	LF	SY	
364+35		RT	CTH KR	3	-	-	70	-	-	
12+50	- 14+15	RT/LT	113TH AVE	5	86	58	-	-	-	
14+18		LT	113TH AVE	-	-	-	-	20	6	SEE SDD FOR ASPHALT FLUME
14+18		RT	113TH AVE	-	-	-	-	20	6	SEE SDD FOR ASPHALT FLUME
UNDISTRIBUTED				-	-	-	460	-	-	REPAIR NEEDS
PROJECT 2704-00-77 TOTAL				8	86	58	530	40	12	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

COLD PATCH

		495.1000.S
		COLD
		PATCH
		TON
LOCATION		
UNDISTRIBUTED		100
PROJECT 2704-00-77 TOTAL		100

CONCRETE CURB & GUTTER

				601.0409	601.0555
				CONCRETE	CONCRETE
				CURB & GUTTER	CURB & GUTTER
				30-INCH	6-INCH SLOPED 36-INCH
				TYPE A	TYPE A
				LF	LF
STAGE 1B					
374+44	-	374+52	LT	CTH KR	38
374+61	-	374+79	LT-PORKCHOP	CTH KR	125
374+97	-	375+07	NORTH MED	CTH KR	87
375+22	-	375+31	NORTH MED	CTH KR	87
375+58				121' LT	CTH KR
					31
375+52	-	383+00	58'-127' LT	CTH KR	--
375+71	-	383+00	MED - LT	CTH KR	--
364+00	-	374+88	MED - LT	CTH KR	--
364+00	-	374+38	58'-123' LT	CTH KR	--
STAGE 1B SUBTOTAL				368	3559
STAGE 2					
364+00	-	369+26	58' RT	CTH KR	--
364+00	-	374+88	MED - RT	CTH KR	--
375+72	-	383+00	MED - RT	CTH KR	--
369+65	-	383+00	58' RT	CTH KR	--
STAGE 2 SUBTOTAL				--	3,620
PROJECT 2704-00-77 TOTAL				368	7,179

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONCRETE COLLARS FOR PIPE

						520.8000
						CONCRETE
						COLLARS
						FOR PIPE
STAGE	ROADWAY	STATION	OFFSET	PIPE ID	SIZE (IN)	EACH
2	CTH KR	377+45	49' RT	PE1053	30	1
TOTAL						1

CULVERT ITEMS

									522.0130	522.1030	522.2434	522.2634	633.5200
									CULVERT	APRON	CULVERT PIPE	APRON ENDWALLS	
									PIPE	ENDWALLS	REINFORCED	FOR CULVERT PIPE	
									REINFORCED	FOR	CONCRETE	REINFORCED	MARKERS
									CONCRETE	CULVERT PIPE	HORIZONTAL	CONCRETE	CULVERT
									CLASS III	REINFORCED	ELLIPTICAL	HORIZONTAL	END
										CONCRETE	CLASS HE-IV	ELLIPTICAL	
STAGE	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	INLET ELEV	DISCH ELEV	SLOPE		30-INCH LF	30-INCH EACH	34x53-INCH LF	34x53-INCH EACH	EACH
2	CTH KR												
	364+07	116' RT	364+69	110' RT	723.98	723.85	0.21%		--	--	62	2	2
	364+08	124' RT	364+70	118' RT	723.98	723.85	0.21%		--	--	62	2	2
	364+70	108' LT	364+82	104' RT	724.66	724.24	0.20%		212	2	--	--	2
TOTALS									212	2	124	4	6

1. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR END OF END WALLS
2. STATION / OFFSETS ARE TO THE CENTER OF GRATES OR END OF END WALLS

RECONSTRUCTING STRUCTURES

								611.0430
								RECONSTRUCTING
STAGE	LOCATION	STRUCTURE ID	OFFSET STATION	EXISTING RIM ELEVATION	PROPOSED RIM TO ELEVATION	INLETS EACH		
2	CTH KR	E1054	377+50	60' RT	728.00	732.74	1	
TOTALS							1	

* VERIFY EXISTING RIM ELEVATION IN FIELD

CHECK VALVES

SPV.0060.011
SLIP-IN
CHECK VALVE
FOR 30-INCH
INSIDE DIAMETER
PIPE

STAGE	ROADWAY	STATION	OFFSET	PIPE ID	EACH
2	CTH KR				
		377+51	60' RT	PE1055	1
	TOTAL				1

REMOVING COVER PLATES LEFT IN PLACE

SPV.0060.016
REMOVING COVER PLATES
LEFT IN PLACE

STAGE	ROADWAY	STRUCTURE ID	STATION	OFFSET	EACH
2	CTH KR				
		E1054	377+50	58' RT	1
	TOTAL				1

REMOVING BULKHEAD

SPV.0060.017
REMOVING
BULKHEAD

STAGE	ROADWAY	STATION	OFFSET	EACH
2	CTH KR			
		377+45	49' RT	1
	TOTAL			1

BIORETENTION

SPV.0060.725
BIORETENTION
TYPE A

SPV.0060.726
BIORETENTION
TYPE B

STAGE	ROADWAY	STATION	OFFSET	BIORETENTION CELL SURFACE ELEVATION	EACH	EACH
2	CTH KR					
		377+47	0' RT	731.32	1	--
		379+57	0' RT	730.24	--	1
		381+65	0' RT	729.13	1	--
	TOTALS				2	1

CONCRETE SIDEWALK

602.0410 CONCRETE SIDEWALK 5-INCH						
STATION	TO	STATION	OFFSET	LOCATION	SF	REMARKS
STAGE 1B						
374+01	-	374+25	LT	CTH KR	194	
374+62	-	374+83	LT	CTH KR	683	
375+01	-	375+27	LT	CTH KR	247	
375+71	-	375+95	LT	CTH KR	205	
STAGE 1B SUBTOTAL					1329	
STAGE 2						
368+96	-	369+18	RT	CTH KR	188	
369+68	-	369+90	RT	CTH KR	188	
369+70	-	374+88	RT	CTH KR	3097	
374+67	-	374+81	MED	CTH KR	180	
STAGE 2 SUBTOTAL					3653	
PROJECT 2704-00-77 TOTAL					4,982	

CURB RAMP DETECTIBLE WARNING FIELDS

602.0505 CURB RAMP DETECTIBLE WARNING FIELD YELLOW				
STATION	OFFSET	LOCATION	SF	REMARKS
STAGE 1B				
374+20	81' LT	CTH KR	33	RADIAL
374+67	81' LT	CTH KR	20	--
374+75	69' LT	CTH KR	20	--
374+80	81' LT	CTH KR	20	--
375+07	81' LT	CTH KR	20	--
375+22	81' LT	CTH KR	20	--
375+81	81' LT	CTH KR	34	RADIAL
STAGE 1B SUBTOTAL			167	
STAGE 2				
369+05	73' RT	CTH KR	31	RADIAL
369+75	75' RT	CTH KR	31	RADIAL
374+75	10' LT	CTH KR	20	--
374+75	14' LT	CTH KR	20	--
374+75	62' RT	CTH KR	20	--
STAGE 2 SUBTOTAL			122	
PROJECT 2704-00-77 TOTAL			289	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	175	---	383+02.47	60.0	LT	730.03	INLETS 4-FT DIAMETER	HM	--	CONSTRUCT UNDER PROJECT ID 3763-00-73	---	---	---	---	--	---	---	---	---	---	---	---
CTH KR	183	---	383+02.47	60.0	RT	730.03	INLETS 4-FT DIAMETER	HM	--	CONSTRUCT UNDER PROJECT ID 3763-00-73	---	---	---	---	--	---	---	---	---	---	---	---
CTH KR	193	---	380+65.50	19.0	LT	730.49	MANHOLES 6-FT DIAMETER	J-SPECIAL	--	CONSTRUCT UNDER PROJECT ID 3763-00-73	---	---	---	---	--	---	---	---	---	---	---	---
CTH KR	203	---	380+00.00	19.5	LT	731.38	MANHOLES 6-FT DIAMETER	J-SPECIAL	--	CONSTRUCT UNDER PROJECT ID 3763-00-73	---	---	---	---	--	---	---	---	---	---	---	---
CTH KR	205	---	379+57.09	19.0	LT	731.59	MANHOLES 6-FT DIAMETER	J-SPECIAL	--	CONSTRUCT UNDER PROJECT ID 3763-00-73	---	---	---	---	--	---	---	---	---	---	---	---
CTH KR	1001	1B	365+75.00	60.0	LT	730.05	INLETS 4-FT DIAMETER	HM	3.97	---	P1002	1B	1001	1005	726.08	725.84	0.50	47	52	IV	15	---
CTH KR	1003	2	365+75.00	16.0	RT	729.89	INLETS 4-FT DIAMETER	HM	3.95	---	P1004	2	1003	1005	725.94	725.84	0.50	20	25	IV	15	---
CTH KR	1005	1B	365+75.00	4.0	LT	729.65	MANHOLES 5-FT DIAMETER	57	4.14	---	P1006	1B	1005	1007	725.51	725.15	0.30	120	125	HE-IV	19x30	---
CTH KR	1007	1B	367+00.00	4.0	LT	728.96	MANHOLES 5-FT DIAMETER	HM	3.81	---	P1008	1B	1007	1009	725.15	724.93	0.30	75	80	HE-IV	19x30	---
CTH KR	1009	1B	367+80.00	8.7	LT	728.76	MANHOLES 5-FT DIAMETER	HM	3.83	---	P1010	1B	1009	1017	724.93	724.62	0.30	102	107	HE-IV	19x30	---
CTH KR	1011	1B	367+21.00	60.0	LT	729.25	INLETS 4-FT DIAMETER	HM	3.33	---	P1012	1B	1011	1013	725.92	725.52	0.50	79	83	IV	15	---
CTH KR	1013	1B	368+04.08	60.0	LT	729.05	INLETS 4-FT DIAMETER	HM	3.53	---	P1014	1B	1013	1015	725.52	725.13	0.50	79	83	IV	15	---
CTH KR	1015	1B	368+87.00	60.0	LT	729.25	INLETS 4-FT DIAMETER	HM	4.12	---	P1016	1B	1015	1017	725.13	724.95	0.50	35	40	IV	15	---
CTH KR	1017	1B	368+87.00	16.0	LT	729.09	MANHOLES 5-FT DIAMETER	57	4.47	---	P1018	1B	1017	1019	724.62	724.37	0.30	83	88	HE-IV	19x30	---
CTH KR	1019	1B	369+75.00	16.0	LT	729.53	MANHOLES 5-FT DIAMETER	HM	5.16	---	P1020	1B	1019	1023	724.37	724.08	0.30	95	100	HE-IV	19x30	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	1021	1B	370+75.00	60.0	LT	730.19	INLETS 4-FT DIAMETER	HM	5.60	---	P1022	1B	1021	1023	724.59	724.41	0.50	35	40	IV	15	---
CTH KR	1023	1B	370+75.00	16.0	LT	730.03	MANHOLES 5-FT DIAMETER	HM	5.95	---	P1024	1B	1023	1025	724.08	723.80	0.30	95	100	HE-IV	19x30	---
CTH KR	1025	1B	371+75.00	16.0	LT	730.53	MANHOLES 5-FT DIAMETER	HM	6.73	---	P1026	1B	1025	1029	723.80	723.52	0.30	94	99	HE-IV	19x30	---
CTH KR	1027	1B	372+74.00	60.0	LT	731.19	INLETS 4-FT DIAMETER	HM	6.11	---	P1028	1B	1027	1029	725.08	724.91	0.50	35	40	III	15	---
CTH KR	1029	1B	372+74.00	16.0	LT	731.03	MANHOLES 5-FT DIAMETER	57	7.51	---	P1030	1B	1029	1031	723.52	723.31	0.30	71	76	HE-III	19x30	---
CTH KR	1031	1B	373+50.00	16.0	LT	731.41	MANHOLES 5-FT DIAMETER	HM	8.10	---	P1032	1B	1031	1037	723.31	723.10	0.30	70	75	HE-III	19x30	---
CTH KR	1033	1B	374+15.00	16.0	LT	731.74	INLETS 4-FT DIAMETER	HM	5.17	---	P1034	1B	1033	1037	726.57	726.54	0.50	6	10	IV	15	---
CTH KR	1037	1B	374+25.00	16.0	LT	731.79	MANHOLES 5-FT DIAMETER	HM	8.69	---	P1038	1B	1037	1041	723.10	722.59	0.30	170	175	III	24	---
CTH KR	1039	1B	376+13.84	68.0	LT	732.72	INLETS 4-FT DIAMETER	HM	6.10	---	P1040	1B	1039	1041	726.62	726.40	0.50	45	49	III	15	---
CTH KR	1041	1B	376+00.00	18.5	LT	732.65	MANHOLES 5-FT DIAMETER	J-SPECIAL	10.06	---	P1042	1B	1041	1047	722.59	722.23	0.30	120	125	III	24	---
CTH KR	1043	1B	378+00.00	68.0	LT	732.33	INLETS 4-FT DIAMETER	HM	6.11	---	P1044	1B	1043	1045	726.22	725.87	0.50	71	75	III	15	---
CTH KR	1045	1B	377+25.00	68.0	LT	732.67	INLETS 4-FT DIAMETER	HM	6.80	---	P1046	1B	1045	1047	725.87	725.65	0.50	43	48	III	15	---
CTH KR	1047	1B	377+25.00	18.5	LT	732.76	MANHOLES 5-FT DIAMETER	J-SPECIAL	10.53	---	P1048	2	1047	1051	722.23	722.13	0.30	32	37	III	24	---
CTH KR	1049	2	377+47.04	0.0	RT	732.32	INLETS 3-FT DIAMETER	BEEHIVE	5.00	---	P1050	2	1049	1051	727.32	727.20	0.50	25	29	IV	15	---
CTH KR	1051	2	377+25.00	18.5	RT	732.76	MANHOLES 5-FT DIAMETER	J-SPECIAL	10.63	---	P1052	2	1051	PE1053	722.13	722.03	0.30	34	37	III	30	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM	TO	INLET	DISCH	SLOPE ^A	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	E1054	2	377+50.30	60.0	RT	732.74	---	HM	10.71	ADJUST TO FINISHED GRADE AND INSTALL COVER	PE1053	---	P1052	E1054	722.03	---	---	---	---	---	30	EXIST PIPE INTERPOL ELEV
CTH KR	1101	2	365+74.51	60.0	RT	729.57	INLETS 4-FT DIAMETER	HM	3.11	---	P1102	2	1101	1103	726.46	725.75	0.50	142	146	IV	15	---
CTH KR	1103	2	367+21.00	60.0	RT	728.77	INLETS 4-FT DIAMETER	HM	3.02	---	P1104	2	1103	1105	725.75	725.35	0.50	79	83	IV	15	---
CTH KR	1105	2	368+04.08	60.0	RT	728.57	INLETS 4-FT DIAMETER	HM	3.22	---	P1106	2	1105	1107	725.35	725.22	0.50	27	31	IV	15	---
CTH KR	1107	2	368+34.77	60.0	RT	728.59	INLETS 4-FT DIAMETER	HM	3.62	---	P1108	2	1107	1111	724.97	724.73	0.50	48	53	IV	18	---
CTH KR	1109	2	367+50.25	9.6	RT	728.84	MANHOLES 5-FT DIAMETER	57	3.97	---	P1110	2	1109	1111	724.87	724.65	0.30	75	80	HE-IV	19x30	---
CTH KR	1111	2	368+30.00	3.2	RT	728.65	MANHOLES 5-FT DIAMETER	HM	4.00	---	P1112	2	1111	1113	724.65	724.42	0.30	75	80	HE-IV	19x30	---
CTH KR	1113	2	369+09.74	3.2	LT	728.82	MANHOLES 5-FT DIAMETER	HM	4.40	---	P1114	2	1113	1115	724.42	724.24	0.30	60	65	HE-IV	19x30	---
CTH KR	1115	2	369+75.00	8.0	LT	729.05	MANHOLES 5-FT DIAMETER	HM	4.81	---	P1116	2	1115	1117	724.24	724.23	0.30	5	10	HE-IV	19x30	---
CTH KR	1117	2	369+85.00	3.0	LT	729.10	MANHOLES 5-FT DIAMETER	HM	4.87	---	P1118	2	1117	1121	724.23	723.98	0.30	85	90	HE-IV	19x30	---
CTH KR	1119	2	370+75.00	60.0	RT	729.71	INLETS 4-FT DIAMETER	HM	5.14	---	P1120	2	1119	1121	724.57	724.27	0.50	59	64	IV	15	---
CTH KR	1121	2	370+75.00	8.0	LT	729.55	MANHOLES 5-FT DIAMETER	HM	5.57	---	P1122	2	1121	1123	723.98	723.96	0.30	5	10	HE-IV	19x30	---
CTH KR	1123	2	370+85.00	3.0	LT	729.60	MANHOLES 5-FT DIAMETER	HM	5.64	---	P1124	2	1123	1127	723.96	723.70	0.30	85	90	HE-IV	19x30	---
CTH KR	1125	2	371+85.00	8.0	LT	730.05	INLETS 4-FT DIAMETER	HM	3.27	---	P1126	2	1125	1127	726.78	726.75	0.50	6	10	IV	15	---
CTH KR	1127	2	371+75.00	3.0	LT	730.05	MANHOLES 5-FT DIAMETER	HM	6.35	---	P1128	2	1127	1133	723.70	723.42	0.30	94	99	HE-IV	19x30	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION ^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE ^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY. ^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	1129	2	372+74.00	60.0	RT	730.71	INLETS 4-FT DIAMETER	HM	6.11	---	P1130	2	1129	1133	724.60	724.30	0.50	59	64	III	15	---
CTH KR	1131	2	372+84.00	8.0	LT	730.60	INLETS 4-FT DIAMETER	HM	4.11	---	P1132	2	1131	1133	726.49	726.46	0.50	6	10	IV	15	---
CTH KR	1133	2	372+74.00	8.0	LT	730.55	MANHOLES 5-FT DIAMETER	HM	7.13	---	P1134	2	1133	1135	723.42	723.21	0.30	71	76	HE-III	19x30	---
CTH KR	1135	2	373+50.00	3.0	LT	730.93	MANHOLES 5-FT DIAMETER	57	7.72	---	P1136	2	1135	1141	723.21	723.00	0.30	70	75	HE-III	19x30	---
CTH KR	1137	2	374+15.00	8.0	LT	731.45	INLETS 4-FT DIAMETER	HM	3.42	---	P1138	2	1137	1141	728.03	728.00	0.50	6	10	IV	15	---
CTH KR	1139	2	374+25.00	60.0	RT	731.63	INLETS 4-FT DIAMETER	HM	6.11	---	P1140	2	1139	1141	725.52	725.22	0.50	59	64	III	15	---
CTH KR	1141	2	374+25.00	8.0	LT	731.55	MANHOLES 5-FT DIAMETER	HM	8.55	---	P1142	2	1141	1147	723.00	722.49	0.30	171	176	III	24	---
CTH KR	1143	2	375+12.59	60.0	RT	732.17	INLETS 4-FT DIAMETER	HM	6.11	---	P1144	2	1143	1145	726.06	725.64	0.50	83	87	III	15	---
CTH KR	1145	2	376+00.00	60.0	RT	732.73	INLETS 4-FT DIAMETER	HM	7.09	---	P1146	2	1145	1147	725.64	725.47	0.50	35	40	III	15	---
CTH KR	1147	2	375+99.81	18.3	RT	732.73	MANHOLES 5-FT DIAMETER	J-SPECIAL	10.24	---	P1148	2	1147	1051	722.49	722.13	0.30	120	125	III	24	---
CTH KR	1171	2	379+57.09	0.0	RT	731.24	INLETS 3-FT DIAMETER	BEEHIVE	5.00	---	P1172	2	1171	205	726.24	726.17	0.50	15	19	IV	15	---
CTH KR	1173	1B	380+00.15	63.8	LT	731.35	INLETS 4-FT DIAMETER	HM	5.62	---	P1174	1B	1173	203	725.73	725.54	0.50	37	42	IV	15	---
CTH KR	1175	2	380+00.00	60.0	RT	731.43	INLETS 4-FT DIAMETER	HM	5.53	---	P1176	2	1175	203	725.90	725.54	0.50	73	78	IV	15	---
CTH KR	1177	2	381+65.50	0.0	RT	730.13	INLETS 3-FT DIAMETER	BEEHIVE	4.50	---	P1178	2	1177	193	725.63	725.56	0.50	15	19	IV	15	---
CTH KR	1179	1B	382+26.00	60.0	LT	730.22	INLETS 4-FT DIAMETER	HM	4.22	---	P1180	1B	1179	175	726.00	725.64	0.50	72	76	IV	15	---
CTH KR	1181	2	382+26.00	60.0	RT	730.22	INLETS 4-FT DIAMETER	HM	4.05	---	P1182	2	1181	183	726.17	725.81	0.50	72	76	IV	15	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURE SUMMARY						
611.2005 MANHOLES	611.3003 INLETS	611.3004 INLETS	611.0535 MANHOLE COVERS	611.0627 INLET COVERS	SPV.0060.008 INLET COVERS	SPV.0060.015 INLET COVERS
5-FT DIAMETER EACH	3-FT DIAMETER EACH	4-FT DIAMETER EACH	TYPE J SPECIAL EACH	TYPE HM EACH	BEEHIVE EACH	TYPE 57 ¹ EACH
25	3	27	4	44	3	5

STORM SEWER PIPE SUMMARY						
608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.2319 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH LF	608.2419 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH LF
467	638	37	1026	53	302	1223

¹ TOP SLAB OPENINGS FOR INLET COVERS TYPE 57 SHALL BE 2'-0" x 2'-0"

RIPRAP

		606.0100		645.0130	
		RIPRAP		GEOTEXTILE	
		LIGHT		TYPE R	
STATION	OFFSET	LOCATION	CY	SY	REMARKS
STAGE 1A					
368+65	120' RT	CTH KR	3.7	--	FILTER BERM
STAGE 1A SUBTOTAL			3.7	0.0	
STAGE 3					
376+26	MED - LT	CTH KR	0.5	3.3	
377+36	MED - LT	CTH KR	0.5	3.3	
378+35	MED - LT	CTH KR	0.5	3.3	
379+46	MED - LT	CTH KR	0.5	3.3	
380+44	MED - LT	CTH KR	0.5	3.3	
381+54	MED - LT	CTH KR	0.5	3.3	
382+50	MED - LT	CTH KR	0.5	3.3	
376+26	MED - RT	CTH KR	0.5	3.3	
377+36	MED - RT	CTH KR	0.5	3.3	
378+35	MED - RT	CTH KR	0.5	3.3	
379+46	MED - RT	CTH KR	0.5	3.3	
380+44	MED - RT	CTH KR	0.5	3.3	
381+54	MED - RT	CTH KR	0.5	3.3	
382+50	MED - RT	CTH KR	0.5	3.3	
STAGE 3 SUBTOTAL			7.0	46.2	
PROJECT 2704-00-77 TOTAL			10.7	46.2	

DRAIN TILE EXPLORATION

		612.0700	
		DRAIN TILE	
		EXPLORATION	
		LOCATION	LF
UNDISTRIBUTED			1,500
PROJECT 2704-00-77 TOTAL			1,500

FENCE CHAIN LINK

				616.0206	
				FENCE CHAIN	
				LINK 6-FT	
				LF	
STATION	TO	STATION	OFFSET		
377+00	-	379+00	88' RT	200	
378+00	-	380+00	88' LT	200	
PROJECT 2704-00-77 TOTAL				400	

FENCE SAFETY

		616.0700.S	
		FENCE	
		SAFETY	
		LF	
LOCATION			
UNDISTRIBUTED		1,500	
PROJECT 2704-00-77 TOTAL		1,500	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

MOBILIZATION	
619.1000	
MOBILIZATION	
LOCATION	EACH
PROJECT 2704-00-77	0.3
PROJECT 2704-00-77 TOTAL	0.3

CONCRETE MEDIAN SLOPED NOSE						
620.0300 CONCRETE MEDIAN SLOPED NOSE						
STATION	TO	STATION	OFFSET	LOCATION	SF	REMARKS
STAGE 1B						
374+88	-	374+96	MED	CTH KR	58	TYPE 1
374+74	-	374+85	124' LT	CTH KR-OUTSIDE	61	TYPE 1
374+77	-	374+85	69' LT	CTH KR-OUTSIDE	21	TYPE 2
375+05	-	375+25	71' LT	CTH KR-OUTSIDE	99	TYPE 1
STAGE 1B SUBTOTAL					239	
STAGE 2						
364+60	-	364+67	MED	CTH KR	66	TYPE 1
375+64	-	375+72	MED	CTH KR	99	TYPE 1
STAGE 2 SUBTOTAL					165	
PROJECT 2704-00-77 TOTAL					404	

WATER	
624.0100 WATER	
LOCATION	MGAL
AGGREGATE COMPACTION	30
EARTHWORK COMPACTION	200
DUST CONTROL	30
SEEDED AREAS	140
PROJECT 2704-00-77 TOTAL	400

RESTORATION													
		627.0200 MULCHING	628.2004 EROSION MAT CLASS 1 TYPE B	628.2008 EROSION MAT URBAN CLASS 1 TYPE B	628.2027 EROSION MAT CLASS 2 TYPE C	629.0210 FERTILIZER TYPE B	630.0140 SEEDING MIXTURE NO. 40	630.0200 SEEDING TEMPORARY	SPV.0085.001 SEEDING MIXTURE SPECIAL				
STATION	OFFSET	LOCATION	SY	SY	SY	SY	CWT	LB	LB	LB			
STAGE 1													
364+00	-	374+50	LT	CTH KR	--	5,425	--	3.5	98	147	--		
375+00	-	375+30	LT	CTH KR	--	258	--	0.2	4	6	--		
375+75	-	383+00	LT	CTH KR	--	3,570	--	2.2	64	96	--		
STAGE 1 SUBTOTAL						9,253	--	5.9	166	249	--		
STAGE 2													
363+60	-	369+24	RT	CTH KR	--	1,038	3,068	350	2.8	19	29	62	
369+85	-	379+35	RT	CTH KR	--	5,244	--	--	3.3	95	143	--	
379+35	-	381+25	RT	CTH KR	--	954	--	--	0.6	17	26	--	
381+35	-	383+00	RT	CTH KR	--	653	--	--	0.4	12	18	--	
STAGE 2 SUBTOTAL						--	7,889	3,068	350	7.1	143	216	62
STAGE 3													
364+70	-	369+70	MED	CTH KR	--	869	--	--	0.5	16	24	--	
375+72	-	383+00	MED	CTH KR	--	2,159	--	--	1.4	39	59	--	
STAGE 3 SUBTOTAL						--	3,028	--	--	1.9	55	83	--
UNDISTRIBUTED						4,500	2,017	307	35	1.5	36	55	6
PROJECT 2704-00-77 TOTAL						4,500	22,187	3,375	385	16.4	400	603	68

TOPSOIL SPECIAL					SPV.0180.001 TOPSOIL SPECIAL	
STATION	OFFSET	LOCATION	SY			
STAGE 1						
364+00	-	374+50	LT	CTH KR	5,425	
375+00	-	375+30	LT	CTH KR	258	
375+75	-	383+00	LT	CTH KR	3,570	
STAGE 1 SUBTOTAL					9,253	
STAGE 2						
363+60	-	369+24	RT	CTH KR	4,456	
369+85	-	379+35	RT	CTH KR	5,244	
379+35	-	381+25	RT	CTH KR	954	
381+35	-	383+00	RT	CTH KR	653	
STAGE 2 SUBTOTAL					11,307	
STAGE 3						
364+70	-	369+70	MED	CTH KR	869	
375+72	-	383+00	MED	CTH KR	2,159	
STAGE 3 SUBTOTAL					3,028	
WORK BEYOND SLOPE INTERCEPT					2,359	
PROJECT 2704-00-77 TOTAL					25,947	
ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED						

EROSION CONTROL

628.1910

			628.1104	628.1504	628.1520	628.1905	628.7504	628.7555	628.7570	628.7560	SPV.0060.002	SPV.0060.003	SPV.0060.004	SPV.0060.005	SPV.0090.001	
			EROSION BALES	SILT FENCE	SILT FENCE MAINTENANCE	MOBILIZATIONS EROSION CONTROL	EMERGENCY EROSION CONTROL	TEMPORARY DITCH CHECKS	CULVERT PIPE CHECK	ROCK BAGS	TRACKING PADS	TEMPORARY STONE DITCH CHECKS	SAND BAGS	TEMPORARY SEDIMENT TRAPS	EROSION CONTROL FILTER BAGS	HEAVY DUTY SILT FENCE
STATION	OFF	LOCATION	EACH	LF	LF	EACH	EACH	LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LF
STAGE 1																
363+50 - 368+67	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	--	550
363+55 - 364+00	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	--	90
364+10	LT	CTH KR	--	--	--	--	--	--	20	--	--	--	--	--	--	90
364+65 - 369+16	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	--	625
364+70	LT	CTH KR	--	--	--	--	--	--	5	--	--	--	--	--	--	--
368+67 - 374+18	LT	CTH KR	--	575	575	--	--	--	--	--	--	--	--	--	--	--
376+00 - 378+00	LT	CTH KR	--	235	235	--	--	--	--	--	--	--	--	--	--	--
378+00 - 379+00	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	--	100
379+52 - 380+92	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	--	155
380+95 - 383+00	LT	CTH KR	--	205	205	--	--	--	--	--	--	--	--	--	--	--
STAGE 1 SUBTOTAL			--	1,015	1,015	--	--	--	25	--	--	--	--	--	--	1,610
STAGE 2																
369+76 - 377+12	RT	CTH KR	--	955	955	--	--	--	--	--	--	--	--	--	--	--
375+50 - 383+00	RT/LT	BIOSWALE	--	--	--	--	--	150	--	--	--	--	--	--	--	--
377+12 - 377+67	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	--	80
378+17 - 379+30	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	--	120
379+60 - 381+27	RT	CTH KR	--	169	169	--	--	--	--	--	--	--	--	--	--	--
381+51 - 383+00	RT	CTH KR	--	153	153	--	--	--	--	--	--	--	--	--	--	--
381+54	RT	CTH KR	--	--	--	--	--	--	2	--	--	--	--	--	--	--
STAGE 2 SUBTOTAL			--	1,277	1,277	--	--	150	--	--	--	--	--	--	--	200
UNDISTRIBUTED			100	344	344	6	10	200	20	30	1	10	50	5	50	272
PROJECT 2704-00-77 TOTAL			100	2,636	2,636	6	10	350	45	30	1	10	50	5	50	2,082

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

REMOVING SIGNS

	638.2602	638.3000	
	REMOVING	REMOVING	
	SIGNS	SMALL SIGN	
	TYPE II	SUPPORTS	
SIGN #	EACH	EACH	REMARKS
R100	1	1	STOP SIGN
R101	1	1	STOP SIGN
PROJECT 2704-00-77	2	2	

INLET PROTECTION

			628.7005	628.7010	628.7020
			INLET	INLET	INLET
			PROTECTION	PROTECTION	PROTECTION
			TYPE A	TYPE B	TYPE D
			EACH	EACH	EACH
STAGE 1B					
364+00	-	369+00	CTH KR	8	4
369+00	-	374+00	CTH KR	7	4
374+00	-	379+00	CTH KR	6	1
379+00	-	383+00	CTH KR	3	1
STAGE 1B SUBTOTAL				24	10
STAGE 2					
364+00	-	369+00	CTH KR	7	2
369+00	-	374+00	CTH KR	12	6
374+00	-	379+00	CTH KR	7	4
379+00	-	383+00	CTH KR	3	4
STAGE 2 SUBTOTAL				29	16
UNDISTRIBUTED				13	7
PROJECT 2704-00-07 TOTAL				66	33

TRAFFIC CONTROL

	643.5000
	TRAFFIC CONTROL
LOCATION	EACH
PROJECT 2704-00-77	0.3
PROJECT 2704-00-77 TOTAL	0.3

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE			637.2210	637.2215	637.2230	634.0618	SIGN MOUNTED	REMARKS
					SIGNS TYPE II REFLECTIVE H SF	SIGNS TYPE II REFLECTIVE H FOLDING SF	SIGNS TYPE II REFLECTIVE F SF	POSTS WOOD 4X6-IN X 18 FT EACH		
P100	W3-3	36	X	36	--	--	9.00	1	--	TRAFFIC LIGHT AHEAD-TWO FLAGS
P101	R3-20L	24	X	36	6.00	--	--	1	--	BEGIN LEFT TURN LANE (ARROW)
P102	R1-1	36	X	36	7.46	--	--	1	--	STOP
P103	R1-1F	36	X	36	--	7.46	--	--	--	FOLDING STOP
P104	R1-1F	36	X	36	--	7.46	--	--	--	FOLDING STOP
P105	R1-1F	36	X	36	--	7.46	--	--	--	FOLDING STOP
P106	R1-1F	36	X	36	--	7.46	--	--	--	FOLDING STOP
P107	R1-1F	36	X	36	--	7.46	--	--	--	FOLDING STOP
P108	R1-1F	36	X	36	--	7.46	--	--	--	FOLDING STOP
P109	R2-1	30	X	36	7.50	--	--	1	--	SPEED LIMIT 45
P110	R2-1	30	X	36	7.50	--	--	1	--	SPEED LIMIT 45
P111	D1-65	138	X	30	28.75	--	--	2	--	WISCONN VALLEY WAY NEXT SIGNAL
P112	D1-65	138	X	30	28.75	--	--	2	--	WISCONN VALLEY WAY NEXT SIGNAL
P113	R5-1A	42	X	30	8.75	--	--	1	--	WRONG WAY
P114	R6-3A	30	X	24	5.00	--	--	--	--	DIVIDED HIGHWAY
P115	R5-1	36	X	36	9.00	--	--	--	--	DO NOT ENTER
P116	R5-1	36	X	36	9.00	--	--	--	--	DO NOT ENTER
P117	R4-7	24	X	30	5.00	--	--	--	--	KEEP RIGHT MEDIAN
P118	R5-1	36	X	36	9.00	--	--	--	--	DO NOT ENTER
P119	R6-3A	30	X	24	5.00	--	--	--	--	DIVIDED HIGHWAY

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING CONT'D

SIGN #	SIGN CODE	SIGN SIZE			637.2210	637.2215	637.2230	634.0618	SIGN MOUNTED		REMARKS
		IN	X	IN	SIGNS TYPE II REFLECTIVE H SF	SIGNS TYPE II REFLECTIVE H FOLDING SF	SIGNS TYPE II REFLECTIVE F SF	POSTS WOOD 4X6-IN X 18 FT EACH	ON SAME	POST AS	
P120	R6-2L	30	X	36	7.50	--	--	--	--	--	ONE WAY (ARROW)
P121	R2-1	30	X	36	7.50	--	--	1	--	--	SPEED LIMIT 45
P122	R2-1	30	X	36	7.50	--	--	1	--	--	SPEED LIMIT 45
P123	M1-94H	108	X	18	13.50	--	--	--	--	--	WISCONN VALLEY WAY
P124	M1-94H	108	X	18	13.50	--	--	--	--	--	WISCONN VALLEY WAY
P125	R5-1A	42	X	30	8.75	--	--	1	P136	--	WRONG WAY
P126	J4-1	36	X	54	13.50	--	--	1	--	--	EAST AND KR ASSEMBLY
P127	R6-2R	24	X	30	5.00	--	--	1	--	--	ONE WAY (ARROW)
P128	W3-3	36	X	36	--	--	9.00	1	--	--	TRAFFIC LIGHT AHEAD-TWO FLAGS
P129	R4-7	24	X	30	5.00	--	--	--	--	--	KEEP RIGHT MEDIAN
P130	R4-7	24	X	30	5.00	--	--	--	--	--	KEEP RIGHT MEDIAN
P131	R6-2R	24	X	30	5.00	--	--	1	--	--	ONE WAY (ARROW)
P132	R6-2R	24	X	30	5.00	--	--	1	--	--	ONE WAY (ARROW)
P133	R5-1	36	X	36	9.00	--	--	1	--	--	DO NOT ENTER
P134	J4-1	36	X	54	13.50	--	--	1	--	--	EAST AND KR ASSEMBLY
P135	W23-2	36	X	36	--	--	9.00	1	--	--	NEW TRAFFIC PATTERN AHEAD
P136	W23-2	36	X	36	--	--	9.00	--	P125	--	NEW TRAFFIC PATTERN AHEAD
P137	W23-2	36	X	36	--	--	9.00	1	--	--	NEW TRAFFIC PATTERN AHEAD
P138	W23-2	36	X	36	--	--	9.00	1	--	--	NEW TRAFFIC PATTERN AHEAD
PROJECT 2704-00-77 TOTAL					255.96	44.76	54.00	23	--	--	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

TRAFFIC CONTROL																	
				643.0300		643.0420		643.0500		643.0600		643.0705		643.0715		643.0900	
				TRAFFIC CONTROL DRUMS		TRAFFIC CONTROL BARRICADES TYPE III		TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS		TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES		TRAFFIC CONTROL WARNING LIGHTS TYPE A		TRAFFIC CONTROL WARNING LIGHTS TYPE C		TRAFFIC CONTROL SIGNS	
		STAGE DURATION															
STAGE	LOCATION	DAYS	EACH**	DAY	EACH**	DAY	EACH	EACH	EACH*	DAY	EACH**	DAY	EACH**	DAY			
1	STAGE 1A CTH KR	45	--	--	--	--	--	--	--	--	--	--	2	90			
1B	STAGE 1B CTH KR	100	--	--	--	--	--	--	--	--	--	--	2	200			
2	STAGE 2 CTH KR	92	15	1,380	25	2,300	39	39	50	4,600	--	--	11	1,012			
3	STAGE 3 CTH KR	15	48	720	24	360	50	50	48	720	--	--	12	180			
5	STAGE 5 CTH KR	6	30	180	4	24	--	--	8	48	16	96	24	144			
UNDISTRIBUTED				228		268		18		18		537		10		163	
PROJECT 2704-00-77 TOTAL				2,508		2,952		107		107		5,905		106		1,789	

**FOR INFORMATION ONLY

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

TRAFFIC CONTROL CONT'D

		643.1050		646.9000	646.9010	646.9110	649.0105		649.0205
		TRAFFIC		REMOVAL	REMOVAL LINE	REMOVAL LINE	TEMPORARY		TEMPORARY
		CONTROL		LINE	WATER BLASTING	WATER BLASTING	MARKING LINE		MARKING
		SIGNS		4-INCH	4-INCH	8-INCH	PAINT		LINE
		PCMS		LF	LF	LF	WHITE	YELLOW	PAINT
STAGE	LOCATION	EACH**	DAY	EACH	EACH	EACH	LF	LF	LF
1	STAGE 1A CTH KR	--	--	--	--	--	--	--	--
1B	STAGE 1B CTH KR	--	--	--	--	--	--	--	--
2	STAGE 2 CTH KR	--	--	--	--	--	3,800	3,800	--
3	STAGE 3 CTH KR	--	--	--	--	--	1,900	1,900	500
5	STAGE 5 CTH KR	--	--	--	--	--	--	--	--
UNDISTRIBUTED		1	14	1,500	13,000	1,000	570	570	50
PROJECT 2704-00-77 TOTAL			14	1,500	13,000	1,000	12,540		550

**FOR INFORMATION ONLY

TRAFFIC CONTROL

643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II			
LOCATION	EACH	NUMBER OF CYCLES	NUMBER OF SIGNS
CTH KR	20	1	20
PROJECT 2704-00-77 TOTAL	20		

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PAVEMENT MARKINGS

					646.1020 MARKING LINE EPOXY 4-INCH		646.1040 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH		646.3040 MARKING LINE GROOVED WET 8-INCH		646.5020 MARKING ARROW EPOXY	646.5120 MARKING WORD EPOXY ONLY	646.6120 MARKING STOP LINE EPOXY 18-INCH	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	646.8120 MARKING CURB EPOXY	646.8220 MARKING ISLAND NOSE EPOXY	SPV.0090.006 COLD WEATHER MARKING EPOXY 4-INCH	SPV.0090.007 COLD WEATHER MARKING EPOXY 8-INCH	
STATION	TO	STATION	OFFSET	LOCATION	WHITE LF	YELLOW LF	WHITE LF	SOLID LF	SKIP LF	EACH	EACH	LF	LF	LF	EACH	LF	LF	REMARKS	
12+50	-	14+15	LT	113TH AVE	166	--	--	--	--	--	--	--	--	--	--	--	--	DOUBLE YELLOW	
12+50	-	14+40	MED	113TH AVE	--	381	--	--	--	--	--	--	--	--	--	--	--		
12+50	-	14+15	RT	113TH AVE	165	--	--	--	--	--	--	--	--	--	--	--	--		
	14+36		RT	113TH AVE	--	--	--	--	--	--	--	20	--	--	--	--	--		
	14+40		LT/RT	113TH AVE	--	--	--	--	--	--	--	--	46	--	--	--	--		
	14+50		LT/RT	113TH AVE	--	--	--	--	--	--	--	--	64	--	--	--	--	SKIPS SKPS	
364+00	-	374+65	RT	CTH KR	--	--	535	--	--	--	--	--	--	--	--	--	--		
364+00	-	374+65	LT	CTH KR	--	--	535	--	--	--	--	--	--	--	--	--	--		
364+00	-	368+83	RT	CTH KR	483	--	--	--	--	--	--	--	--	--	--	--	--		
364+00	-	374+54	LT	CTH KR	1050	--	--	--	--	--	--	--	--	--	--	--	--		
364+96	-	374+69	LT	CTH KR MED	--	974	--	--	--	--	--	--	--	--	--	--	--		
364+86	-	374+65	RT	CTH KR MED	--	981	--	--	--	--	--	--	--	--	--	--	--		
364+68	-	365+01	LT	CTH KR	--	--	--	--	--	--	--	--	--	35	--	--	--		
364+68	-	364+91	RT	CTH KR	--	--	--	--	--	--	--	--	--	24	--	--	--		
364+96	-	367+21	LT	CTH KR	--	--	--	225	--	--	--	--	--	--	--	--	--		
368+20	-	369+71	RT	CTH KR	--	--	--	--	38	--	--	--	--	--	--	--	--		
369+70	-	374+65	RT	CTH KR	--	--	--	495	--	--	--	--	--	--	--	--	--		
369+70	-	374+65	RT	CTH KR	--	--	--	495	--	--	--	--	--	--	--	--	--		
	369+95		RT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--		
	369+95		RT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--		
370+03	-	374+65	RT	CTH KR	--	--	463	--	--	--	--	--	--	--	--	--	--		
	373+76		RT	CTH KR	--	--	--	--	--	--	1	--	--	--	--	--	--		
	373+76		RT	CTH KR	--	--	--	--	--	--	1	--	--	--	--	--	--		
	374+16		RT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--		
	374+16		RT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--		
374+21	-	374+60	LT, 76'	CTH KR	--	--	--	--	--	--	--	--	43	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
374+31	-	374+63	LT, 86'	CTH KR	--	--	--	--	--	--	--	--	36	--	--	--	--		
374+33	-	374+48	LT, 90'	CTH KR	--	--	--	--	--	--	--	18	--	--	--	--	--		
374+33	-	374+53	LT, 159'	CTH KR	72	--	--	--	--	--	--	--	--	--	--	--	--		
	374+52		LT, 125'	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--		
	374+64		LT, 124'	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
	374+91		LT, 124'	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--		
374+48	-	374+65	LT, 159'	CTH KR	--	--	--	71	--	--	--	--	--	--	--	--	--		
374+51	-	374+64	LT, 100'	CTH KR	--	--	--	--	--	--	--	13	--	--	--	--	--		
374+59	-	374+76	LT, 159'	CTH KR	--	--	--	75	--	--	--	--	--	--	--	--	--		
	374+69		RT	CTH KR	--	--	--	--	--	--	--	--	64	--	--	--	--		
	374+69		LT	CTH KR	--	--	--	--	--	--	--	--	48	--	--	--	--		
	374+79		RT	CTH KR	--	--	--	--	--	--	--	--	65	--	--	--	--		
	374+79		LT	CTH KR	--	--	--	--	--	--	--	--	48	--	--	--	--		
	374+84		LT, 86' - 159'	CTH KR	--	--	--	73	--	--	--	--	--	--	--	--	--		
WISCONN VALLEY WAY NORTH APPROACH																			

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PAVEMENT MARKINGS CONT'D

				646.1020		646.1040		646.3040		646.5020	646.5120	646.6120	646.7420	646.8120	646.8220	SPV.0090.006	SPV.0090.007		
				MARKING LINE		MARKING LINE		MARKING LINE		MARKING	MARKING	MARKING	MARKING	MARKING	MARKING	COLD WEATHER	COLD WEATHER		
				EPOXY		GROOVED		GROOVED		ARROW	WORD	STOP LINE	CROSSWALK	CURB	ISLAND NOSE	MARKING	MARKING		
				4-INCH		WET REFLECTIVE		WET		EPOXY	EPOXY ONLY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY		
				EPOXY 4-INCH		EPOXY 4-INCH		8-INCH				18-INCH	TRANSVERSE LINE			4-INCH	8-INCH		
STATION	TO	STATION	OFFSET	LOCATION	WHITE LF	YELLOW LF	WHITE LF	SOLID LF	SKIP LF	EACH	EACH	LF	LF	LF	EACH	LF	LF	REMARKS	
374+84	-	375+03	LT, 76'	CTH KR	--	--	--	--	--	--	--	--	19	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
374+84	-	374+99	LT, 86'	CTH KR	--	--	--	--	--	--	--	--	15	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
374+84	-	374+98	LT, 90'	CTH KR	--	--	--	--	--	--	--	14	--	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
	374+95		LT, 104' - 159'	CTH KR	--	55	--	--	--	--	--	--	--	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
374+98	-	375+06	LT, 109' - 74'	CTH KR	--	--	--	--	--	--	--	--	--	26	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
375+22	-	375+31	LT, 73' - 109'	CTH KR	--	--	--	--	--	--	--	--	--	26	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
375+25	-	375+80	LT, 76'	CTH KR	--	--	--	--	--	--	--	--	55	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
375+30	-	375+69	LT, 86'	CTH KR	--	--	--	--	--	--	--	--	40	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
	375+33		LT, 104' - 159'	CTH KR	--	55	--	--	--	--	--	--	--	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
	375+44		LT, 86' - 159'	CTH KR	19	--	--	--	--	--	--	--	--	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
375+56	-	375+69	LT, 159' - 86'	CTH KR	76	--	--	--	--	--	--	--	--	--	--	--	--	WISCONN VALLEY WAY NORTH APPROACH	
	374+65		RT	CTH KR	--	--	--	--	--	--	--	64	--	--	--	--	--		
374+65	-	374+88	LT-MED	CTH KR	--	--	--	--	--	--	--	--	--	24	--	--	--		
374+65	-	374+88	RT-MED	CTH KR	--	--	--	--	--	--	--	--	--	24	--	--	--		
	374+91		MED	CTH KR	--	--	--	--	--	--	--	--	--	--	1	--	--		
	375+15		LT, 70'	CTH KR	--	--	--	--	--	--	--	--	--	--	1	--	--		
	375+67		MED	CTH KR	--	--	--	--	--	--	--	--	--	--	1	--	--		
	375+95		LT	CTH KR	--	--	--	--	--	--	--	51	--	--	--	--	--		
375+72	-	375+99	LT-MED	CTH KR	--	--	--	--	--	--	--	--	--	30	--	--	--		
375+72	-	376+07	RT-MED	CTH KR	--	--	--	--	--	--	--	--	--	35	--	--	--		
375+95	-	383+00	LT	CTH KR	706	--	--	--	--	--	--	--	--	--	--	--	--		
375+95	-	379+45	LT	CTH KR	--	--	--	350	--	--	--	--	--	--	--	--	--		
375+95	-	383+00	LT	CTH KR	355	--	--	--	--	--	--	--	--	--	--	--	--	SKIPS	
375+99	-	383+00	LT-MED	CTH KR	--	701	--	--	--	--	--	--	--	--	--	--	--		
376+07	-	383+00	RT-MED	CTH KR	--	695	--	--	--	--	--	--	--	--	--	--	--		
375+91	-	383+00	RT	CTH KR	355	--	--	--	--	--	--	--	--	--	--	--	--	SKIPS	
375+91	-	383+00	RT	CTH KR	709	--	--	--	--	--	--	--	--	--	--	--	--		
	376+50		LT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--		
	376+90		LT	CTH KR	--	--	--	--	--	--	1	--	--	--	--	--	--		
	379+21		LT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--		
379+45	-	380+95	LT	CTH KR	--	--	--	--	38	--	--	--	--	--	--	--	--		
SUBTOTAL					4156	3842	1533	1784	76	9	3	180	543	224	3	0	0		
UNDISTRIBUTED					0	0	0	0	0	0	0	0	0	0	0	1533	1860		
PROJECT 2704-00-77 TOTAL					7998		1533	1860		9	3	180	543	224	3	1533	1860		

NOTE: UNDISTRIBUTED QUANTITY USED AT THE DIRECTION OF THE ENGINEER FOR COLD WEATHER MARKINGS

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

SAWCUTS

STATION	OFFSET	LOCATION	690.0150	690.0250	REMARK
			SAWING ASPHALT LF	SAWING CONCRETE LF	
STAGE 1B					
364+00	LT	CTH KR	--	67	
364+67	RT	CTH KR	30	--	DRAINAGE PIPE CROSSING CTH KR
364+90	RT	CTH KR	30	--	DRAINAGE PIPE CROSSING CTH KR
STAGE 1B SUBTOTAL			60	67	
STAGE 2					
364+00	RT	CTH KR	--	55	
364+35	RT	CTH KR	20	--	DRIVEWAY
12+50	RT/LT	113TH AVE	25	--	
STAGE 2 SUBTOTAL			45	55	
PROJECT 2704-00-77 TOTAL			105	122	

MOBILIZATIONS EMERGENCY PAVEMENT REPAIR

SPV.0060.009 MOBILIZATIONS EMERGENCY PAVEMENT REPAIR	
LOCATION	EA
PROJECT 2704-00-77	3
PROJECT 2704-00-77 TOTAL	3

SECTION CORNER MONUMENTS

SPV.0060.010 SECTION CORNER MONUMENTS	
LOCATION	EA
PROJECT 2704-00-77	2
PROJECT 2704-00-77 TOTAL	2

PAVEMENT CLEANUP PROJECT

SPV.0075.002 PAVEMENT CLEANUP PROJECT 2704-00-77	
LOCATION	HR
PROJECT 2704-00-77	30
PROJECT 2704-00-77 TOTAL	30

CONNECT DRAIN TILE

LOCATION	SPV.0060.013	608.0312	612.0212
	CONNECT DRAIN TILE EA	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	PIPE UNDERDRAIN UNPERFORATED 12-INCH LF
UNDISTRIBUTED	10	200	1,500
PROJECT 2704-00-77 TOTAL	10	200	1,500

NOTE: ADDITIONAL STORM SEWER QUANTITY SHOWN ELSEWHERE IN THE PLANS

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PIPE UNDERDRAIN

				SPV.0090.002 PIPE UNDERDRAIN 6-INCH SPECIAL LF
STATION	TO	STATION	OFFSET	LOCATION
364+00	-	383+00	RT/LT	CTH KR
SUBTOTAL				2750
UNDISTRIBUTED				500
PROJECT 2704-00-77 TOTAL				3,250

NOTE: CONNECT PIPE UNDERDRAIN TO CURBLINE INLETS

MAINTAIN CONCRETE BARRIER TEMPORARY

			SPV.0090.003 MAINTAIN CONCRETE BARRIER TEMPORARY PRECAST LF	SPV.0060.014 MAINTAIN CRASH CUSHIONS TEMPORARY LEFT IN PLACE EACH
STATION	OFFSET	LOCATION		
STAGE 1				
377+50	81' RT	CTH KR	--	1
377+50	41' RT	CTH KR	--	1
377+50 - 379+50	41' RT	CTH KR	200	--
377+50 - 379+00	81' RT	CTH KR	150	--
379+00	81' RT	CTH KR	--	1
379+50	41' RT	CTH KR	--	1
STAGE 1 SUBTOTAL			350	4
PROJECT 2704-00-77 TOTAL			350	4

COCONUT FIBER ROLLS

				SPV.0090.003 COCONUT FIBER ROLLS DELIVERED LF	SPV.0090.004 COCONUT FIBER ROLLS INSTALLED LF
STATION	TO	STATION	OFFSET	LOCATION	
STAGE 1					
363+65	-	364+19	RT	CTH KR	230
364+69	-	368+65	RT	CTH KR	800
STAGE 1 SUBTOTAL				1030	1030
UNDISTRIBUTED				260	260
PROJECT 2704-00-77 TOTAL				1,290	1,290

SURVEY PROJECT

	SPV.0105.007 SURVEY PROJECT 2704-00-77 LS
LOCATION	
PROJECT 2704-00-77	1
PROJECT 2704-00-77 TOTAL	1

REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES

		SPV.0170.001 REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES STA
LOCATION		
PROJECT 2704-00-77		5
PROJECT 2704-00-77 TOTAL		5

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONTROL OF WATER

SPV.0105.010
CONTROL
OF WATER
PROJECT 2704-00-77

LOCATION	LS
PROJECT 2704-00-77	1
PROJECT 2704-00-77 TOTAL	1

WATER TAP SERVICE AND IRRIGATION SYSTEM

SPV.0105.630
WATER TAP SERVICE
AND IRRIGATION SYSTEM
2704-00-77

LOCATION	LS
PROJECT 2704-00-77	1
PROJECT 2704-00-77 TOTAL	1

CATEGORY 6000

STREAM BED MATERIAL

SPV.0195.001
STREAM BED MATERIAL

STATION	OFFSET	LOCATION	TON	REMARKS
STAGE 1A				
363+67	137' RT	CTH KR	6	INSIDE POOL BEND
364+00	120' RT	CTH KR	20	--
364+75	115' RT	CTH KR	32	--
364+95	110' RT	CTH KR	0.7	COBBLESTONE BAFFLE
365+35	105' RT	CTH KR	0.7	COBBLESTONE BAFFLE
365+75	110' RT	CTH KR	0.7	COBBLESTONE BAFFLE
366+05	105' RT	CTH KR	0.7	COBBLESTONE BAFFLE
366+45	110' RT	CTH KR	0.7	COBBLESTONE BAFFLE
366+85	105' RT	CTH KR	0.7	COBBLESTONE BAFFLE
367+25	110' RT	CTH KR	0.7	COBBLESTONE BAFFLE
367+65	105' RT	CTH KR	0.7	COBBLESTONE BAFFLE
368+05	110' RT	CTH KR	0.7	COBBLESTONE BAFFLE
STAGE 1A SUBTOTAL			64.3	
UNDISTRIBUTED			16.1	
PROJECT 2704-00-77 TOTAL			80.4	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

3

SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY		
QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CONTROLLER AND CABINET
1	EACH	POLES TYPE 10
1	EACH	POLES TYPE 12
1	EACH	POLES TYPE 13
1	EACH	MONOTUBE ARMS 15 FT
1	EACH	MONOTUBE ARMS 40 FT
1	EACH	MONOTUBE ARMS 45 FT
4	EACH	LUMINAIRE ARMS STEEL 15 FT
3	EACH	EVP DETECTOR HEAD WITH CONFIRMATION BEACON (HEADS A, B, C)
3	EACH	RADAR DETECTOR UNIT - ADVANCE (RE1, RE2, RA3)
1	EACH	CELL MODEM
1	EACH	ETHERNET SWITCH



CTH KR / WISCONN VALLEY WAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CB1	PB1	--	33
PB1	PB2	--	47
PB2	PB3	--	41
PB1	PB4	--	142
PB4	PB5	--	136
PB5	PB6	39	--
PB5	PB7	--	96
PB7	PB8	--	78
PB8	PB9	--	150
PB9	PB10	--	166
PB10	PB11	--	104
PB11	PB12	14	--
PB11	PB13	--	124
PB13	PB14	--	116
PB14	PB15	--	88
PB15	PB16	--	168
PB16	PB17	--	152
PB17	PB18	--	70
PB17	PB19	91	--
PB17	PB20	--	110
PB20	PB21	--	44
PB21	CB1	--	30
SUBTOTALS		144	1895

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT (CONT.)

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
PB1	SB1	25	--
PB3	SB2	22	--
PB3	SB3	37	--
PB6	SB4	23	--
PB6	SB5	10	--
PB6	SB6	22	--
PB8	SB7	35	--
PB9	SB8	24	--
PB10	SB9	--	28
PB11	SB10	--	25
PB13	SB11	10	--
PB14	SB12	10	--
PB15	SB13	14	--
PB17	SB14	27	--
PB18	SB15	16	--
PB18	SB16	--	23
SUBTOTALS		259	53
TOTALS		403	1948

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CTH KR / WISCONN VALLEY WAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT)X(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
11	PB18	374+40.47	12.0' RT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	176	292
12	PB18	374+68.47	12.0' RT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	176	292
13	PB18	374+40.47	0.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	176	220
14	PB18	374+68.47	0.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	176	220
15	PB2	374+48.56	114.8' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	75	220
16	PB2	374+40.15	87.7' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	75	220
17	PB3	374+63.64	124.2' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	84	116	262
18	PB3	374+56.12	97.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	78	116	244
42	PB3	374+89.95	114.7' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	116	226
43	PB3	374+89.95	86.7' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	116	226
S1	PB19	372+78.88	48.1' LT	6'X6'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	197	394
S2	PB19	372+78.88	36.1' LT	6'X6'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	197	298
S3	PB19	372+78.88	24.1' LT	6'X6'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	48	197	202
S4	PB12	376+35.16	48.1' RT	6'X10'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	62	446	320
S5	PB12	376+35.16	36.1' RT	6'X10'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	446	440
S6	PB12	376+35.16	24.1' RT	6'X10'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	446	560
S7	PB8	375+49.86	120.0' LT	6'X6'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	44	256	186
S8	PB6	375+37.86	120.0' LT	6'X6'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	208	274
TOTALS								1358	3711	5096

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CTH KR / WISCONN VALLEY WAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135* PULL BOXES STEEL 24X36-INCH EACH	653.0140 PULL BOXES STEEL 24X42-INCH EACH
PB1	373+89.72	105.2' LT	--	1
PB2	374+36.02	113.2' LT	1	--
PB3	374+77.33	110.6' LT	--	1
PB4	374+44.95	150.3' LT	--	1
PB5	375+13.95	150.3' LT	--	1
PB6	375+13.95	110.6' LT	1	--
PB7	375+61.95	150.3' LT	--	1
PB8	375+63.07	110.6' LT	1	--
PB9	376+20.42	72.0' LT	--	1
PB10	376+20.42	11.0' RT	--	1
PB11	376+20.42	64.0' RT	--	1
PB12	376+35.16	64.0' RT	1	--
PB13	375+58.14	64.0' RT	--	1
PB14	374+99.81	64.0' RT	--	1
PB15	374+55.05	64.0' RT	--	1
PB16	373+70.47	64.0' RT	--	1
PB17	373+70.47	12.0' LT	--	1
PB18	374+44.47	12.0' LT	--	1
PB19	372+78.88	12.1' LT	1	--
PB20	373+70.47	67.2' LT	--	1
PB21	373+75.02	89.7' LT	--	1
TOTALS			5	16

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CTH KR / WISCONN VALLEY WAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101	654.0102	654.0105*	654.0110	654.0113	654.0217
			CONCRETE BASES TYPE 1 EACH	CONCRETE BASES TYPE 2 EACH	CONCRETE BASES TYPE 5 EACH	CONCRETE BASES TYPE 10 EACH	CONCRETE BASES TYPE 13 EACH	CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	373+80.75	98.7' LT	--	--	--	--	--	1
SB1	374+08.40	87.7' LT	--	1	--	--	--	--
SB2	374+73.62	88.1' LT	1	--	--	--	--	--
SB3	374+67.73	74.0' LT	1	--	--	--	--	--
SB4	375+06.44	88.1' LT	1	--	--	--	--	--
SB5	375+13.95	99.9' LT	--	--	1	--	--	--
SB6	375+18.71	88.1' LT	1	--	--	--	--	--
SB7	375+90.89	88.0' LT	1	--	--	--	--	--
SB8	375+95.57	74.6' LT	1	--	--	--	--	--
SB9	375+95.10	3.0' LT	--	--	--	1	--	--
SB10	375+95.10	68.0' RT	--	--	--	--	1	--
SB11	375+47.37	66.0' RT	1	--	--	--	--	--
SB12	374+89.95	66.0' RT	--	1	--	--	--	--
SB13	374+67.26	72.2' RT	1	--	--	--	--	--
SB14	373+97.81	12.0' LT	1	--	--	--	--	--
SB15	374+27.71	12.0' LT	1	--	--	--	--	--
SB16	374+67.73	12.0' LT	--	--	--	--	1	--
TOTALS			10	2	1	1	2	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CTH KR / WISCONN VALLEY WAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

		655.0240	655.0260
		CABLE TRAFFIC SIGNAL	CABLE TRAFFIC SIGNAL
		7-14 AWG	12-14 AWG
FROM	TO	LF	LF
CB1	SB1	--	63
CB1	SB2	181	--
CB1	SB3	196	--
CB1	SB4	290	--
CB1	SB6	289	--
CB1	SB7	366	--
CB1	SB8	446	--
CB1	SB9	549	--
CB1	SB10	579	--
CB1	SB11	486	--
CB1	SB12	411	--
CB1	SB13	--	355
CB1	SB14	175	--
CB1	SB15	251	--
CB1	SB16	--	258
TOTALS		4219	676

ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

		655.0230
		CABLE TRAFFIC SIGNAL
		5-14 AWG
FROM	TO	LF
SB1	HEAD 12	19
SB1	HEAD 20	15
SB3	HEAD 19	15
SB4	HEAD 15	19
SB7	HEAD 21	15
SB8	HEAD 8	19
SB9	HEAD 6	24
SB9	HEAD 7	36
SB10	HEAD 2	65
SB10	HEAD 3	53
SB10	HEAD 4	41
SB11	HEAD 16	19
SB12	HEAD 17	19
SB13	HEAD 1	19
SB13	HEAD 18	15
SB14	HEAD 14	19
SB15	HEAD 13	19
SB16	HEAD 5	19
SB16	HEAD 9	33
SB16	HEAD 10	45
SB16	HEAD 11	56
TOTALS		584

LIGHTING WIRE

		655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
FROM	TO		
CB1	SB1	63	--
SB1	LUMIN (1)	--	117
SB1	SB5	243	--
SB5	LUMIN (2)	--	234
SB5	SB9	430	--
SB9	LUMIN (2)	--	288
CB1	SB16	272	--
SB16	LUMIN (2)	--	288
TOTALS		1008	927

ELECTRICAL WIRE TRAFFIC SIGNALS

		655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
FROM	TO	
CB1	SB1	63
SB1	SB2	189
SB2	SB3	78
SB3	SB4	431
SB4	SB6	67
SB6	SB7	255
SB7	SB8	175
SB8	SB9	176
SB9	SB10	147
SB10	SB11	138
SB11	SB12	119
SB12	SB13	109
SB13	SB14	258
SB14	SB15	155
SB15	SB16	64
SB16	CB1	258
PB1	CB1	35
PB2	CB1	98
PB3	SB2	41
PB4	CB1	122
PB5	SB6	97
PB6	SB6	41
PB7	SB7	110
PB8	SB7	54
PB9	SB8	43
PB10	SB9	47
PB11	SB10	44
PB13	SB11	29
PB14	SB12	29
PB15	SB13	33
PB16	SB13	134
PB17	SB14	46
PB18	SB15	35
PB20	CB1	73
PB21	CB1	34
TOTALS		3827

3

TRAFFIC SIGNAL EVP DETECTOR CABLE

		655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF
FROM	TO		
CB1	SB16 (HEAD A)	292	292
CB1	SB10 (HEAD B)	580	580
CB1	SB12 (HEAD C)	384	384
TOTALS		1256	1256

ELECTRICAL SERVICE METER BREAKER PEDESTAL
CTH KR & WISCONN VALLEY WAY

BASE NO.	656.0200.302 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
CB1	1
TOTAL	1

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

CAST BASES, POLES, STANDARDS, MONOTUBE, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255* TRANSFORMER BASES BREAKAWAY 11 1/2 INCH EACH	657.0305 POLES TYPE 2 EACH	657.0310 POLES TYPE 3 EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4 INCH CLAMP 6-FT EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH
SB1	--	1	--	1	--	--	--	--	1	--
SB2	1	--	--	--	--	1	--	--	--	--
SB3	1	--	--	--	--	--	--	1	--	--
SB4	1	--	--	--	--	--	1	--	--	--
SB5	--	1	--	--	1	--	--	--	--	2
SB6	1	--	--	--	--	1	--	--	--	--
SB7	1	--	--	--	--	--	--	1	--	--
SB8	1	--	--	--	--	--	1	--	--	--
SB9	--	--	--	--	--	--	--	--	--	--
SB10	--	--	--	--	--	--	--	--	--	--
SB11	1	--	--	--	--	--	1	--	--	--
SB12	--	1	1	--	--	--	--	--	--	--
SB13	1	--	--	--	--	--	1	--	--	--
SB14	1	--	--	--	--	--	1	--	--	--
SB15	1	--	--	--	--	--	1	--	--	--
SB16	--	--	--	--	--	--	--	--	--	--
TOTALS	10	3	1	1	1	2	6	2	1	2

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CTH KR / WISCONN VALLEY WAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

CAST BASES, POLES, STANDARDS, MONOTUBE, PUSH BUTTONS, AND LUMINAIRES (CONTINUED)

SIGNAL BASE NO.	657.1350 INSTALL POLES TYPE 10 EACH	657.1355 INSTALL POLES TYPE 12 EACH	657.1360 INSTALL POLES TYPE 13 EACH	657.1515 INSTALL MONOTUBE ARMS 15-FT EACH	657.1540 INSTALL MONOTUBE ARMS 40-FT EACH	657.1545 INSTALL MONOTUBE ARMS 45-FT EACH	657.1815 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	--	--	--	--	--	--	--	1	1
SB2	--	--	--	--	--	--	--	1	--
SB3	--	--	--	--	--	--	--	1	--
SB4	--	--	--	--	--	--	--	1	--
SB5	--	--	--	--	--	--	--	--	2
SB6	--	--	--	--	--	--	--	1	--
SB7	--	--	--	--	--	--	--	1	--
SB8	--	--	--	--	--	--	--	--	--
SB9	1	--	--	1	--	--	2	--	2
SB10	--	1	--	--	--	1	--	--	--
SB11	--	--	--	--	--	--	--	--	--
SB12	--	--	--	--	--	--	--	--	--
SB13	--	--	--	--	--	--	--	1	--
SB14	--	--	--	--	--	--	--	--	--
SB15	--	--	--	--	--	--	--	--	--
SB16	--	--	1	--	1	--	2	1	2
TOTALS	1	1	1	1	1	1	4	8	7

CTH KR / WISCONN VALLEY WAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

TRAFFIC SIGNAL AND PEDESTRIAN FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB13	1	--
2	SB10	1	--
3	SB10	1	--
4	SB10	1	--
5	SB16	1	--
6	SB9	1	--
7	SB9	1	--
8	SB8	1	--
9	SB16	1	--
10	SB16	1	--
11	SB16	1	--
12	SB1	1	--
13	SB15	1	--
14	SB14	1	--
15	SB4	1	--
16	SB11	1	--
17	SB12	1	--
18	SB13	--	1
19	SB3	--	1
20	SB1	--	1
21	SB7	--	1
TOTALS		17	4

SIGNAL MOUNTING HARDWARE

CTH KR & WISCONN VALLEY WAY

LOCATION	658.5069.302 SIGNAL MOUNTING HARDWARE LS
CTH KR & WISCONN VALLEY WAY	1
TOTAL	1

3

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
CTH KR & WISCONN VALLEY WAY

SPV.0105.306 TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET	
LOCATION	LS
CTH KR & WISCONN VALLEY WAY	1
TOTAL	1

CTH KR / WISCONN VALLEY WAY

ALL ITEMS ARE CATEGORY 3000 UNLESS
OTHERWISE NOTED

3

TRANSPORT AND INSTALL STATE FURNISHED RADAR
VEHICLE DETECTION SYSTEM
CTH KR & WISCONN VALLEY WAY

SPV.0105.307 TRANSPORT AND INSTALL STATE FURNISHED RADAR VEHICLE DETECTION SYSTEM	
LOCATION	LS
CTH KR & WISCONN VALLEY WAY	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE
PREEMPTION (EVP) DETECTOR HEADS WITH CONFIRMATION BEACONS
CTH KR & WISCONN VALLEY WAY

SPV.0105.308 TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS WITH CONFIRMATION BEACONS	
LOCATION	LS
CTH KR & WISCONN VALLEY WAY	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
CTH KR & WISCONN VALLEY WAY

SPV.0105.309 TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS	
LOCATION	LS
CTH KR & WISCONN VALLEY WAY	1
TOTAL	1

3

CONDUIT

		652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF
FROM	TO	
CB1 (S51-1468)	CV 101	11
CV 101	CV 374	174
TOTALS		185

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CTH KR / WISCONN VALLEY WAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

ELECTRICAL WIRE TRAFFIC SIGNALS

		655.0510 ELECTRICAL WIRE TRAFFIC SIGNALS 12 AWG LF
FROM	TO	
CB1 (S51-1468)	CV 101	34
CV 101	CV 374	197
TOTALS		231

VAULTS

			673.0105 COMMUNICATION VAULT TYPE 1 EACH
BASE NO.	STATION	LOCATION	
CV 101	373+87.45	89.1' LT	1
TOTAL			1

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ITS COMMUNICATION VAULTS						
CATEGORY	ROADWAY	STATION	OFFSET	ITEM ID	673.0105	673.0200
					COMMUNICATION VAULT TYPE 1 EACH	TRACER WIRE MARKER POSTS EACH
4000	CTH KR					
		364+03	65' RT	CV364	1	1
		370+09	66' RT	CV370	1	1
		373+70	73' RT	CV374	1	1
		376+20	73' RT	CV376	1	1
PROJECT 2704-00-77 TOTAL					4	4

ITS CONDUIT					
CATEGORY	ROADWAY	ITEM ID	LINEAR DISTANCE	671.0122	655.0510
				CONDUIT	ELECTRICAL
				HDPE	WIRE TRAFFIC
				2-DUCT	SIGNALS
				2-INCH	12 AWG
				LF	LF
4000	CTH KR	CV364 - CV370	610	610	619
		CV370 - CV374	350	350	359
		CV374 - CV376	250	250	259
		CV376 - CV389	680	680	689
PROJECT 2704-00-77 TOTAL			TOTALS	1,890	1,926

MISCELLANEOUS ITS ITEMS		
670.0200.001 ITS DOCUMENTATION		
CATEGORY	ITEM I.D.	LS
4000	MISCELLANEOUS	1
PROJECT 2704-00-77 TOTAL		1



LIGHTING AND MISCELLANEOUS - FINAL

CATEGORY	DESCRIPTION	LOCATION	653.0135*	654.0105*	654.0230	657.0255
			PULL BOXES STEEL 24x36- INCH	CONCRETE BASES TYPE 5	CONCRETE CONTROL CABINET BASES TYPE L30	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE (NOTE 1) EACH
5000	BASE KW-1	STA. 365+17.24, 6.00' RT	--	1	--	1
	BASE KW-2	STA. 367+01.50, 4.74' RT	--	1	--	1
	BASE KW-3	STA. 368+88.55, 8.88' LT	--	1	--	1
	BASE KW-4	STA. 370+74.41, 12.14' LT	--	1	--	1
	BASE KW-5	STA. 372+62.21, 12.13' LT	--	1	--	1
	PULLBOX PB-KW1	STA. 372+60.90, 65.47' LT	1	--	--	--
	PULLBOX PB-KW2	STA. 374+32.21, 116.43' LT	1	--	--	--
	PULLBOX PB-KW3	STA 375+73.23, 117.80' LT	1	--	--	--
	BASE LCC KW	STA 376+14.83,119.58' LT	--	--	1	--
	PULLBOX PB-KW4	STA. 376+45.41, 92.56' LT	1	--	--	--
	PULLBOX PB-KW5	STA. 377+81.59, 90.56' LT	1	1	--	1
	BASE KW-6	STA. 377+81.03, 0.0' LT	--	1	--	1
	BASE KW-7	STA. 379+91.49, 0.0' LT	--	1	--	1
	BASE KW-8	STA. 382+00.08, 0.0' LT	--	1	--	1
	TOTALS		5	9	1	9

* = SEE ADDITIONAL QUANTITIES ELSEWHERE

NOTE
1. 1/8" ALUMINUM OR STEEL PLATE TO COVER THE TOP OPENING OF THE TRANSFORMER BASE.
COVER TO BE BOLTED DOWN. COVER TO PREVENT WATER FROM ENTERING TRANSFORMER BASE.
COST OF COVER IS INCIDENTAL TO THE COST OF THE TRANSFORMER BASE.

LIGHTING - WIRE AND CONDUIT - FINAL

CATEGORY	FROM	TO	652.0225*	652.0235*
			CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 -INCH	CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 -INCH
5000	STUB	BASE KW-1	15	--
	BASE KW-1	BASE KW-2	197	--
	BASE KW-2	BASE KW-3	197	--
	BASE KW-3	BASE KW-4	191	--
	BASE KW-4	BASE KW-5	193	--
	BASE KW-5	PB-KW1	--	59
	PB-KW1	PB-KW2	205	--
	PB-KW2	PB-KW3	--	141
	PB-KW3	STUB	53	--
	PB-KW3	BASE LCC KW	--	50
	PB-KW3	BASE LCC KW	--	50
	BASE LCC KW	PB-KW4	--	40
	PB-KW4	PB-KW5	--	156
	PB-KW5	BASE KW-6	--	96
	BASE KW-6	BASE KW-7	231	--
	BASE KW-7	BASE KW-8	231	--
	BASE KW-8	STUB	113	--
	TOTALS		1513	592

CPM PROGRESS SCHEDULE

108.4400	
CPM PROGRESS SCHEDULE	
LOCATION	EACH
PROJECT 3763-00-73	0.7
PROJECT 3763-00-73 TOTAL	0.7

REMOVING DRAINTILE / UNDERDRAIN

204.9090.S.001		204.9090.S.002
REMOVING		REMOVING
DRAINTILE		UNDERDRAIN
LOCATION	LF	LF
UNDISTRIBUTED	5,000	2,500
PROJECT 3763-00-73 TOTAL	5,000	2,500

REMOVING SMALL PIPE CULVERT

203.0100				
REMOVING SMALL				
PIPE CULVERT				
STATION	OFFSET	LOCATION	EACH	NOTE
394+91	RT	CTH KR	1	CMCP 47', 24"
407+63	RT	CTH KR	1	CMCP 32', 16"
409+62	RT	CTH KR	1	CMCP 51', 16"
410+66	RT	CTH KR	1	CMCP 40', 14"
421+22	RT	CTH KR	1	CMCP 21', 14"
424+20	RT	CTH KR	1	CMCP 30', 14"
426+98	RT	CTH KR	1	CMCP 21', 12"
429+30	RT	CTH KR	1	RCCP 25', 12"
431+06	RT	CTH KR	1	CMCP 31', 12"
434+20 - 436+77	RT	CTH KR	1	PLASTIC 25', 12"
436+00	RT	CTH KR	1	CMCP 21', 14"
437+88	RT	CTH KR	1	CMCP 21', 12"
PROJECT 3763-00-73 TOTAL			12	--

CLEARING AND GRUBBING

			201.0105	201.0205	201.0120	201.0220
			CLEARING	GRUBBING	CLEARING	GRUBBING
STATION	OFFSET	LOCATION	STA	STA	ID	ID
STAGE 1 A + B						
390+00 - 395+00	LT	CTH KR	5	5	--	--
406+20	38' LT	CTH KR	--	--	8	8
408+00 - 409+00	LT	CTH KR	1	1	--	--
419+00 - 424+00	LT	CTH KR	5	5	--	--
436+00 - 438+00	LT	CTH KR	2	2	--	--
441+00 - 443+00	LT	CTH KR	2	2	--	--
STAGE 1 SUBTOTAL			15	15	8	8
STAGE 2						
383+00 - 384+00	RT	CTH KR	1	1	--	--
385+97	37' RT	CTH KR	--	--	30	30
386+25	93' RT	CTH KR	--	--	7	7
386+75	93' RT	CTH KR	--	--	12	12
387+00 - 390+00	RT	CTH KR	3	3	--	--
391+20	20' RT	CTH KR	--	--	48	48
391+94	24' RT	CTH KR	--	--	21	21
392+42	8' RT	CTH KR	--	--	24	24
393+00 - 396+00	RT	CTH KR	3	3	--	--
396+38	38' RT	CTH KR	--	--	36	36
396+65	115' RT	CTH KR	--	--	30	30
397+10	40' RT	CTH KR	--	--	30	30
397+34	46' RT	CTH KR	--	--	30	30
397+38	46' RT	CTH KR	--	--	48	48
419+00 - 424+00	RT	CTH KR	5	5	--	--
425+00 - 430+00	RT	CTH KR	5	5	--	--
434+87	91' RT	CTH KR	--	--	18	18
436+00 - 438+00	RT	CTH KR	2	2	--	--
438+10	33' RT	CTH KR	--	--	30	30
439+91	43' RT	CTH KR	--	--	10	10
441+64	12' RT	CTH KR	--	--	18	18
441+65	12' RT	CTH KR	--	--	12	12
441+68	37' RT	CTH KR	--	--	48	48
441+70	30' RT	CTH KR	--	--	30	30
442+96	40' RT	CTH KR	--	--	36	36
444+00 - 447+00	RT	CTH KR	3	3	--	--
STAGE 2 SUBTOTAL			22	22	518	518
PROJECT 3763-00-73 TOTAL			37	37	526	526

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

EARTHWORK

				205.0100 EXCAVATION COMMON (1) (5)		SPV.0035.001 EBS EXCAVATION (2)	SPV.0035.002 EBS BACKFILL	SPV.0035.003 ROADWAY EMBANKMENT (3)		
CATEGORY	DIVISION	ROADWAY	FROM / TO STATION	CUT (CY)	TOPSOIL REMOVAL (CY)	CY	CY	FILL (CY)	CY	MASS ORDINATE +/- (4)
1000	1	CTH KR WB	383+00 to 447+00	10,499	36,720	0	0	54,308	91,028	-43,809
		CTH KR WB	UNDISTRIBUTED	0	0	11,805	11,805	0	0	0
		SUBTOTAL		10,499	36,720	11,805	11,805		91,028	-43,809
		DIVISION 1 TOTAL		47,219						
1000	2	CTH KR EB	383+00 to 447+00	20,237	26,260	0	0	45,881	72,141	-25,644
		100TH AVENUE	22+60 to 25+08	216	0	0	0	171	171	45
		CTH KR EB	UNDISTRIBUTED	0	0	11,624	11,624	0	0	0
		SUBTOTAL		20,453	26,260	11,624	11,624		72,312	-25,599
		DIVISION 2 TOTAL		46,713						
PROJECT 3763-00-77 TOTALS				93,932		23,429	23,429		163,340	-69,408

- 1) Cut Volume Includes Concrete and Asphaltic Surface Material.
- 2) EBS Excavation to be backfilled with EBS Backfill. All EBS Excavation material is assumed to be wasted offsite.
- 3) Roadway Embankment = Unexpanded Fill + Topsoil Removal Replaced
- 4) The Mass Ordinate + or - quantity calculated by Division. A positive quantity indicates an excess of material within the division and a negative number indicates a shortage of material within the division. Mass Ordinate = Cut+Topsoil Removal-Embankment. The mass ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balance for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite.
- 5) Topsoil thickness estimated, refer to Topsoil Removal Construction Detail

FINISHING ROADWAY

		213.0100.002
		FINISHING
		ROADWAY
		PROJECT ID
		3763-00-73
LOCATION	EACH	
PROJECT 3763-00-73	1	
PROJECT 3763-00-73 TOTAL	1	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

AGGREGATE ITEMS

STATION TO		STATION	OFFSET	ROADWAY	305.0110 BASE AGGREGATE DENSE 3/4 INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4 INCH TON	311.0110 BREAKER RUN TON	371.1000.S QMP BASE AGGREGATE DENSE 1 1/4 INCH COMPACTION TON	REMARK
STAGE 1A									
409+82	-	411+55	LT	CTH KR	--	592	1,421	592	
434+55	-	436+58	LT	CTH KR	--	695	1,667	695	
	410+50		RT/LT	TEMP ACCESS DRIVE	--	246	--	246	
	435+75		RT/LT	TEMP ACCESS DRIVE	--	246	--	246	
STAGE 1A SUBTOTAL					0	1,779	3,088	1,779	
STAGE 1B									
383+00	-	409+82	LT	CTH KR	--	5,223	12,536	5,223	
383+00	-	399+00	LT	CTH KR	--	3	--	3	BIOSWALE DRAIN EXTENSION
411+55	-	413+85	LT	CTH KR	--	90	--	90	ADTN'L 10" BENEATH MEDIAN CONCRETE
411+55	-	434+55	LT	CTH KR	--	4,969	11,924	4,969	
436+58	-	447+00	LT	CTH KR	--	2,150	5,162	2,150	
STAGE 1B SUBTOTAL					0	12,435	29,622	12,435	
STAGE 2									
383+00	-	447+00	RT	CTH KR	--	13,997	33,593	13,997	
383+00	-	399+00	RT	CTH KR	--	2.528	--	3	BIOSWALE DRAIN EXTENSION

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

AGGREGATE ITEMS

				305.0110	305.0120	311.0110	371.1000.S	
				BASE AGGREGATE	BASE AGGREGATE	BREAKER	QMP BASE	
				DENSE	DENSE	RUN	AGGREGATE DENSE	
				3/4 INCH	1 1/4 INCH		1 1/4 INCH COMPACTION	
384+65		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
390+15		RT	CTH KR DRIVEWAY	--	69	--	69	
390+15		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
407+46	-	410+00	LT	CTH KR	99	--	99	ADTN'L 10" BENEATH MEDIAN CONCRETE
407+54	-	410+23	RT	CTH KR	105	--	105	ADTN'L 10" BENEATH MEDIAN CONCRETE
410+15		80' RT	CTH KR	--	11	--	11	4" BENEATH CONCRETE SIDEWALK
410+15		85' LT	CTH KR	--	15	--	15	4" BENEATH CONCRETE SIDEWALK
411+15		80' RT	CTH KR	--	21	--	21	4" BENEATH CONCRETE SIDEWALK
411+15		85' LT	CTH KR	--	15	--	15	4" BENEATH CONCRETE SIDEWALK
411+44	-	413+93	RT	CTH KR	97	--	97	ADTN'L 10" BENEATH MEDIAN CONCRETE
422+60		RT	CTH KR DRIVEWAY	--	29	--	29	
422+60		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
424+20		RT	CTH KR DRIVEWAY	--	92	--	92	
424+20		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
429+35		RT	CTH KR DRIVEWAY	--	44	--	44	
429+35		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
431+05		RT	CTH KR DRIVEWAY	--	55	--	55	
431+05		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
432+71	-	435+24	LT	CTH KR	99	--	99	ADTN'L 10" BENEATH MEDIAN CONCRETE
434+60		RT	CTH KR DRIVEWAY	--	36	--	36	
434+60		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
435+00		80' LT	CTH KR	--	4	--	4	4" BENEATH CONCRETE SIDEWALK
436+00		RT	CTH KR DRIVEWAY	--	55	--	55	
436+00		RT	CTH KR - DRIVEWAY ACCESS	--	69	--	69	
436+50		80' LT	CTH KR	--	11	--	11	4" BENEATH CONCRETE SIDEWALK
436+50		RT/LT	CTH KR	--	6	--	6	4" BENEATH CONCRETE SIDEWALK
436+50		70' RT	CTH KR	--	4	--	4	4" BENEATH CONCRETE SIDEWALK
445+33	-	447+00	LT	CTH KR	65	--	65	ADTN'L 10" BENEATH MEDIAN CONCRETE
22+60	-	25+09	RT/LT	100TH AVE	389	--	389	
22+60	-	25+09	LT	100TH AVE	97	--	97	SHOULDER
22+60	-	25+09	RT	100TH AVE	97	--	97	SHOULDER
STAGE 2 SUBTOTAL				72	16,113	33,593	16,113	
SUBTOTAL				72	30,327	66,303	30,327	
UNDISTRIBUTED				11	4,549	9,945	4,549	
PROJECT 3763-00-73 TOTAL				83	34,876	76,248	34,876	

NOTE:
BASE AGGREGATE DENSE = 2 TON/CY
BREAKER RUN = 1.8 TON/CY

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONCRETE PAVEMENT

					415.0100 CONCRETE PAVEMENT 10-INCH SY
STATION TO STATION OFFSET LOCATION					
STAGE 1A					
409+82	-	411+55	LT	CTH KR	1,490
434+55	-	436+58	LT	CTH KR	1,770
STAGE 1A SUBTOTAL					3,260
STAGE 1B					
383+00	-	409+82	LT	CTH KR	11,930
411+55	-	434+55	LT	CTH KR	11,290
436+58	-	447+00	LT	CTH KR	4,970
STAGE 1B SUBTOTAL					28,190
STAGE 2					
383+00	-	447+00	RT	CTH KR	32,550
STAGE 2 SUBTOTAL					32,550
PROJECT 3763-00-73 TOTAL					64,000

CONCRETE PAVEMENT JOINT LAYOUT

			415.5110.S.002 CONCRETE PAVEMENT JOINT LAYOUT
		LOCATION	LS
PROJECT 3763-00-73		CTH KR	1
PROJECT 3763-00-73 TOTAL			1

CONCRETE SURFACE DRAINS

					416.1010 CONCRETE SURFACE DRAINS CY
STATION		OFFSET	LOCATION		
STAGE 1B					
383+54	-	383+61	LT	CTH KR	0.9
384+49	-	384+56	LT	CTH KR	0.9
385+56	-	385+63	LT	CTH KR	0.9
386+62	-	386+69	LT	CTH KR	0.9
387+66	-	387+73	LT	CTH KR	0.9
388+70	-	388+77	LT	CTH KR	0.9
389+79	-	389+86	LT	CTH KR	0.9
390+87	-	390+94	LT	CTH KR	0.9
391+97	-	392+04	LT	CTH KR	0.9
393+08	-	393+15	LT	CTH KR	0.9
394+17	-	394+24	LT	CTH KR	0.9
395+27	-	395+34	LT	CTH KR	0.9
396+39	-	396+46	LT	CTH KR	0.9
397+50	-	397+57	LT	CTH KR	0.9
398+68	-	398+75	LT	CTH KR	0.9
STAGE 1B SUBTOTAL					13.5
STAGE 2					
383+54	-	383+61	RT	CTH KR	0.9
384+49	-	384+56	RT	CTH KR	0.9
385+56	-	385+63	RT	CTH KR	0.9
386+62	-	386+69	RT	CTH KR	0.9
387+66	-	387+73	RT	CTH KR	0.9
388+70	-	388+77	RT	CTH KR	0.9
389+79	-	389+86	RT	CTH KR	0.9
390+87	-	390+94	RT	CTH KR	0.9
391+97	-	392+04	RT	CTH KR	0.9
393+08	-	393+15	RT	CTH KR	0.9
394+17	-	394+24	RT	CTH KR	0.9
395+27	-	395+34	RT	CTH KR	0.9
396+39	-	396+46	RT	CTH KR	0.9
397+50	-	397+57	RT	CTH KR	0.9
398+68	-	398+75	RT	CTH KR	0.9
STAGE 2 SUBTOTAL					13.5
PROJECT 3763-00-73 TOTAL					27.0

CONCRETE PAVEMENT GAPS

			415.0210 CONCRETE PAVEMENT GAPS EA
STATION	OFFSET	LOCATION	
STAGE 2			
384+69	RT	CTH KR - DRIVEWAY	1
422+59	RT	CTH KR - DRIVEWAY	1
429+35	RT	CTH KR - DRIVEWAY	1
436+02	RT	CTH KR - DRIVEWAY	1
STAGE 2 SUBTOTAL			4
PROJECT 3763-00-73 TOTAL			4

NOTE: CONCRETE PAVEMENT GAPS NOT PROVIDED AT FIELD ENTRANCES

CONCRETE DRIVEWAY

			416.0160 CONCRETE DRIVEWAY 6-INCH SY	416.0260 CONCRETE DRIVEWAY HES 6-INCH SY
STATION OFFSET LOCATION				
STAGE 2				
384+69	RT	CTH KR	--	19
390+17	RT	CTH KR	17	--
422+59	RT	CTH KR	--	17
424+21	RT	CTH KR	23	--
429+35	RT	CTH KR	--	20
431+08	RT	CTH KR	28	--
434+70	RT	CTH KR	17	--
436+02	RT	CTH KR	--	17
STAGE 2 SUBTOTAL			85	73
PROJECT 3763-00-73 TOTAL			85	73

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

ASPHALT

		455.0605	460.6223	460.6224	465.0105	465.0310	465.0315			
		TACK	HMA PAVEMENT	HMA PAVEMENT	ASPHALTIC	ASPHALTIC	ASPHALTIC			
		COAT	3 MT 58-28 S	4 MT 58-28 S	SURFACE	CURB	FLUME			
STATION	TO STATION	OFFSET	LOCATION	GAL	TON	TON	TON	LF	SY	REMARKS
STAGE 1A										
	410+60	RT/LT	CTH KR	3	--	--	96	--	--	TEMPORARY ACCESS CONNECT
	435+75	RT/LT	CTH KR	3	--	--	96	--	--	TEMPORARY ACCESS CONNECT
STAGE 1A SUBTOTAL				6	0	0	192	0	0	
STAGE 2										
22+60	-	25+08	RT/LT	100TH AVE	7	126	84	--	--	--
	25+00		LT	100TH AVE	--	--	--	20	6	SEE SDD FOR ASPHALT FLUME
	25+00		RT	100TH AVE	--	--	--	20	6	SEE SDD FOR ASPHALT FLUME
STAGE 2 SUBTOTAL				7	126	84	0	40	12	
UNDISTRIBUTED				50	0	0	1495	0	0	REPAIR NEEDS
PROJECT 3763-00-73 TOTAL				63	126	84	1,687	40	12	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

COLD PATCH

	495.1000.S
	COLD
	PATCH
LOCATION	TON
UNDISTRIBUTED	200
PROJECT 3763-00-73 TOTAL	200

CONCRETE SIDEWALK

				602.0410	
				CONCRETE	
				SIDEWALK	
				5-INCH	
STATION	TO	STATION	OFFSET	LOCATION	REMARKS
STAGE 2					
407+46	-	410+00	RT	CTH KR	MEDIAN ISLAND
407+54	-	410+22	RT	CTH KR	SPLITTER
410+02	-	410+32	LT	CTH KR	NW QUAD
410+05	-	410+43	RT	CTH KR	SW QUAD
410+65			LT	CTH KR	
410+88	-	411+38	RT	CTH KR	SE QUAD
411+03	-	411+40	LT	CTH KR	NE QUAD
411+21	-	413+85	LT	CTH KR	SPLITTER
411+44	-	413+93	RT	CTH KR	MEDIAN ISLAND
432+70		435+24	MED	CTH KR	ISLAND
434+86	-	435+11	LT	CTH KR	NW QUAD
435+68			LT	CTH KR	--
436+15	-	436+58	LT	CTH KR	NE QUAD
436+36	-	436+56	MED	CTH KR	MEDIAN
436+44	-	436+58	RT	CTH KR	SE QUAD
445+33	-	447+00	MED	CTH KR	ISLAND
STAGE 2 SUBTOTAL				12903	
PROJECT 3763-00-73 TOTAL				12,903	

CONCRETE CURB & GUTTER

					601.0409	601.0555	
					CONCRETE	CONCRETE	
					CURB & GUTTER	CURB & GUTTER	
					30-INCH	6-INCH SLOPED 36-INCH	
					TYPE A	TYPE A	
STATION	TO	STATION	OFFSET	LOCATION	LF	LF	REMARKS
STAGE 1A							
27+23	-	27+40	MED/LT	100TH AVE/KR	18	--	
27+23	-	27+40	MED/LT	100TH AVE/KR	18	--	
40+93	-	41+23	MED	CTH KR	30	--	
40+93	-	41+23	MED	CTH KR	30	--	
409+82	-	410+00	MED	CTH KR MED	--	18	
409+82	-	410+33	LT	CTH KR OUTSIDE	--	82	
		410+33	103' LT	CTH KR OUTSIDE	14	--	
410+97	-	411+55	LT	CTH KR OUTSIDE	--	90	
411+20	-	411+55	MED	CTH KR MED	--	35	
411+20	-	411+55	MED	CTH KR MED	--	35	
434+55	-	435+24	MED	CTH KR MED	--	69	
434+55	-	435+27	LT	CTH KR OUTSIDE	--	108	
436+00	-	436+58	LT	CTH KR OUTSIDE	--	92	
436+36	-	436+58	MED	CTH KR MED	--	23	
STAGE 1A SUBTOTAL					110	552	
STAGE 1B							
436+58	-	447+00	18' LT	CTH KR OUTSIDE	--	1043	
411+55	-	434+55	LT	CTH KR-OUTSIDE	--	2,301	
411+55	-	413+85	6' LT	CTH KR - ISLAND	--	230	
411+55	-	413+85	18' LT	CTH KR - ISLAND	--	230	
411+55	-	434+55	LT	CTH KR MED	--	2,301	
436+58	-	447+00	LT	CTH KR MED	--	1,043	
383+00	-	410+00	LT	CTH KR-OUTSIDE	--	2,683	
383+00	-	410+00	LT	CTH KR MED	--	2,595	
STAGE 1B SUBTOTAL					--	12,426	
STAGE 2							
383+00	-	410+00	RT	CTH KR-MED	--	2,596	
383+00	-	410+51	RT	CTH KR-OUTSIDE	--	2,775	
407+54	-	410+23	6' RT	CTH KR-ISLAND	--	269	
407+54	-	410+23	18' RT	CTH KR-ISLAND	--	269	
411+44	-	411+55	RT	CTH KR-MED	--	12	
411+44	-	435+25	RT	CTH KR-MED	--	2,382	
410+84	-	447+00	RT	CTH KR-OUTSIDE	--	3,665	
436+36	-	447+00	RT	CTH KR-MED	--	1,068	
STAGE 2 SUBTOTAL					--	13,036	
PROJECT 3763-00-73 TOTAL					110	26,014	

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CULVERT PIPE TEMPORARY

520.2018 CULVERT PIPE TEMPORARY				
18-INCH				
STAGE	STATION	LT/RT	LF	COMMENTS
1B	CTH KR			
	410+66	RT	60	AT TEMPORARY ACCESS CONNECTION
	435+68	RT	60	AT TEMPORARY ACCESS CONNECTION
	TOTALS		120	

CULVERT ITEMS

								522.0418	522.1018	633.5200
								CULVERT PIPE	APRON	
								REINFORCED	ENDWALLS	
								CONCRETE	FOR	MARKERS
								CLASS IV	CULVERT PIPE	CULVERT
									REINFORCED	END
									CONCRETE	
STAGE	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	INLET ELEV	DISCH ELEV	SLOPE	18-INCH LF	18-INCH EACH	EACH
2	100TH AVENUE									
	25+08	30' RT	25+08	30' LT	739.60	739.30	0.50%	60	2	2
	TOTALS							60	2	2

1. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR END OF END WALLS
2. STATION / OFFSETS ARE TO THE CENTER OF GRATES OR END OF END WALLS

CONCRETE COLLARS FOR PIPE

						520.8000
						CONCRETE
						COLLARS
						FOR PIPE
STAGE	ROADWAY	STATION	OFFSET	PIPE ID	SIZE (IN)	EACH
1B	CTH KR					
		379+35	19' LT	PE207	36	1
		398+43	122' LT	PE535	36	1
		441+85	123' LT	PE785	30	1
TOTAL						3

CHECK VALVES

SPV.0060.012
SLIP-IN
CHECK VALVE
FOR 36-INCH
INSIDE DIAMETER
PIPE

STAGE	ROADWAY	STATION	OFFSET	PIPE ID	EACH
2	CTH KR	379+23	16' LT	PE209	1
TOTAL					1

REMOVING COVER PLATES LEFT IN PLACE

SPV.0060.016
REMOVING COVER PLATES
LEFT IN PLACE

		STRUCTURE		STATION	OFFSET	EACH
STAGE	ROADWAY	ID				
1B	CTH KR	E208		379+25	19' LT	1
TOTAL						1

REMOVING BULKHEAD

SPV.0060.017
REMOVING
BULKHEAD

STAGE	ROADWAY	STATION	OFFSET	EACH
1B	CTH KR	379+35	19' LT	1
		398+43	122' LT	1
		441+85	123' LT	1
TOTAL				3

BIORETENTION

SPV.0060.725
BIORETENTION
TYPE A

SPV.0060.726
BIORETENTION
TYPE B

STAGE	ROADWAY	STATION	OFFSET	BIORETENTION CELL SURFACE ELEVATION	EACH	EACH
2	CTH KR	383+02	0' RT	728.54	--	1
		384+44	0' RT	729.13	1	--
		386+56	0' RT	730.19	--	1
		388+64	0' RT	731.23	1	--
		390+81	0' RT	732.31	--	1
		393+01	0' RT	733.41	1	--
		395+20	0' RT	734.51	--	1
		397+44	0' RT	735.63	1	--
TOTALS					4	4

CURB RAMP DETECTIBLE WARNING FIELDS

602.0505 CURB RAMP DETECTIBLE WARNING FIELD YELLOW				
STATION	OFFSET	LOCATION	SF	REMARKS
STAGE 2				
410+12	9' RT	CTH KR	20	--
410+12	15' RT	CTH KR	20	--
410+12	70' RT	CTH KR	20	--
410+12	69' LT	CTH KR	24	RADIAL
410+29	91' LT	CTH KR	20	--
410+34	78' RT	CTH KR	31	RADIAL
410+91	94' LT	CTH KR	24	RADIAL
411+06	80' RT	CTH KR	24	RADIAL
411+31	10' LT	CTH KR	20	--
411+31	15' LT	CTH KR	20	--
411+31	76' LT	CTH KR	20	--
411+31	63' RT	CTH KR	20	--
435+03	81' LT	CTH KR	30	RADIAL
436+25	81' LT	CTH KR	35	RADIAL
436+51	12' LT	CTH KR	20	--
436+51	71' LT	CTH KR	20	--
436+51	6' RT	CTH KR	20	--
436+51	62' RT	CTH KR	20	--
STAGE 2 SUBTOTAL			408	
PROJECT 3763-00-73 TOTAL			408	

RIPRAP						
			606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY	606.0100 RIPRAP LIGHT CY	645.0130 GEOTEXTILE TYPE R SY
STAGE 2						
410+35	111' RT	CTH KR	1.2	20	--	--
STAGE 2 SUBTOTAL			1.2	20	0.0	0.0
STAGE 3						
383+57	MED-LT	CTH KR	--	--	0.5	3.3
384+49	MED-LT	CTH KR	--	--	0.5	3.3
385+56	MED-LT	CTH KR	--	--	0.5	3.3
386+62	MED-LT	CTH KR	--	--	0.5	3.3
387+66	MED-LT	CTH KR	--	--	0.5	3.3
388+70	MED-LT	CTH KR	--	--	0.5	3.3
389+79	MED-LT	CTH KR	--	--	0.5	3.3
390+87	MED-LT	CTH KR	--	--	0.5	3.3
391+97	MED-LT	CTH KR	--	--	0.5	3.3
393+08	MED-LT	CTH KR	--	--	0.5	3.3
394+17	MED-LT	CTH KR	--	--	0.5	3.3
395+27	MED-LT	CTH KR	--	--	0.5	3.3
396+39	MED-LT	CTH KR	--	--	0.5	3.3
397+50	MED-LT	CTH KR	--	--	0.5	3.3
398+68	MED-LT	CTH KR	--	--	0.5	3.3
383+57	MED-RT	CTH KR	--	--	0.5	3.3
384+49	MED-RT	CTH KR	--	--	0.5	3.3
385+56	MED-RT	CTH KR	--	--	0.5	3.3
386+62	MED-RT	CTH KR	--	--	0.5	3.3
387+66	MED-RT	CTH KR	--	--	0.5	3.3
388+70	MED-RT	CTH KR	--	--	0.5	3.3
389+79	MED-RT	CTH KR	--	--	0.5	3.3
390+87	MED-RT	CTH KR	--	--	0.5	3.3
391+97	MED-RT	CTH KR	--	--	0.5	3.3
393+08	MED-RT	CTH KR	--	--	0.5	3.3
394+17	MED-RT	CTH KR	--	--	0.5	3.3
395+27	MED-RT	CTH KR	--	--	0.5	3.3
396+39	MED-RT	CTH KR	--	--	0.5	3.3
397+50	MED-RT	CTH KR	--	--	0.5	3.3
398+68	MED-RT	CTH KR	--	--	0.5	3.3
STAGE 3 SUBTOTAL			0.0	0	15.0	99.0
PROJECT 3763-00-73 TOTAL			1.2	20.0	15.0	99.0

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	101	1B	397+43.77	60.0	LT	737.05	MANHOLES 5-FT DIAMETER	HM	6.17	---	P102	1B	101	107	730.88	730.71	0.50	34	39	III	15	---
CTH KR	103	2	397+43.77	60.0	RT	737.05	INLETS 4-FT DIAMETER	HM	6.00	---	P104	2	103	105	731.05	730.78	0.50	55	58	III	15	---
CTH KR	105	2	397+43.77	0.0	RT	736.63	INLETS 3-FT DIAMETER	BEEHIVE	5.85	---	P106	2	105	107	730.78	730.71	0.50	15	19	III	15	---
CTH KR	107	1B	397+43.77	18.5	LT	736.98	MANHOLES 5-FT DIAMETER	J-SPECIAL	7.02	---	P110	1B	107	121	729.96	729.30	0.30	219	224	IV	24	---
CTH KR	115	1B	395+20.09	60.0	LT	735.93	INLETS 4-FT DIAMETER	HM	5.70	---	P116	1B	115	121	730.23	730.05	0.50	35	40	III	15	---
CTH KR	117	2	395+20.09	60.0	RT	735.93	INLETS 4-FT DIAMETER	HM	5.54	---	P118	2	117	119	730.39	730.12	0.50	55	58	III	15	---
CTH KR	119	2	395+20.09	0.0	RT	735.51	INLETS 3-FT DIAMETER	BEEHIVE	5.39	---	P120	2	119	121	730.12	730.05	0.50	15	19	III	15	---
CTH KR	121	1B	395+20.09	18.5	LT	735.86	MANHOLES 5-FT DIAMETER	J-SPECIAL	6.56	---	P124	1B	121	131	729.30	728.66	0.30	214	219	IV	24	---
CTH KR	125	1B	393+00.87	60.0	LT	734.83	INLETS 4-FT DIAMETER	HM	5.25	---	P126	1B	125	131	729.58	729.41	0.50	35	40	III	15	---
CTH KR	127	2	393+00.87	60.0	RT	734.83	INLETS 4-FT DIAMETER	HM	5.08	---	P128	2	127	129	729.75	729.48	0.50	55	58	III	15	---
CTH KR	129	2	393+00.87	0.0	RT	734.41	INLETS 3-FT DIAMETER	BEEHIVE	4.93	---	P130	2	129	131	729.48	729.41	0.50	15	19	III	15	---
CTH KR	131	1B	393+00.87	18.5	LT	734.76	MANHOLES 5-FT DIAMETER	J-SPECIAL	6.60	---	P134	1B	131	141	728.16	727.51	0.30	215	220	IV	30	---
CTH KR	135	1B	390+80.59	60.0	LT	733.73	INLETS 4-FT DIAMETER	HM	4.80	---	P136	1B	135	141	728.93	728.76	0.50	35	40	IV	15	---
CTH KR	137	2	390+80.59	60.0	RT	733.73	INLETS 4-FT DIAMETER	HM	4.63	---	P138	2	137	139	729.10	728.83	0.50	55	58	IV	15	---
CTH KR	139	2	390+80.59	0.0	RT	733.31	INLETS 3-FT DIAMETER	BEEHIVE	4.48	---	P140	2	139	141	728.83	728.76	0.50	15	19	IV	15	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	141	1B	390+80.59	18.5	LT	733.66	MANHOLES 5-FT DIAMETER	J-SPECIAL	6.15	---	P144	1B	141	151	727.51	726.88	0.30	211	216	IV	30	---
CTH KR	145	1B	388+64.38	60.0	LT	732.65	INLETS 4-FT DIAMETER	HM	4.34	---	P146	1B	145	151	728.31	728.13	0.50	35	40	IV	15	---
CTH KR	147	2	388+64.38	60.0	RT	732.65	INLETS 4-FT DIAMETER	HM	4.18	---	P148	2	147	149	728.47	728.20	0.50	55	58	IV	15	---
CTH KR	149	2	388+64.38	0.0	RT	732.23	INLETS 3-FT DIAMETER	BEEHIVE	4.03	---	P150	2	149	151	728.20	728.13	0.50	15	19	IV	15	---
CTH KR	151	1B	388+64.38	18.5	LT	732.58	MANHOLES 5-FT DIAMETER	J-SPECIAL	5.70	---	P154	1B	151	161	726.88	726.27	0.30	203	208	IV	30	---
CTH KR	155	1B	386+56.15	60.0	LT	731.61	INLETS 4-FT DIAMETER	HM	4.32	---	P156	1B	155	161	727.29	727.12	0.50	34	39	IV	15	---
CTH KR	157	2	386+56.15	60.0	RT	731.61	INLETS 4-FT DIAMETER	HM	4.15	---	P158	2	157	159	727.46	727.19	0.50	55	58	IV	15	---
CTH KR	159	2	386+56.15	0.0	RT	731.19	INLETS 3-FT DIAMETER	BEEHIVE	4.00	---	P160	2	159	161	727.19	727.12	0.50	15	19	IV	15	---
CTH KR	161	1B	386+56.15	19.0	LT	731.55	MANHOLES 6-FT DIAMETER	J-SPECIAL	5.28	---	P164	1B	161	167	726.27	725.65	0.30	206	212	HE-IV	29x45	---
CTH KR	165	2	384+44.00	0.0	RT	730.13	INLETS 3-FT DIAMETER	BEEHIVE	4.00	---	P166	2	165	167	726.13	726.06	0.50	15	19	IV	15	---
CTH KR	167	1B	384+44.00	19.0	LT	730.49	MANHOLES 6-FT DIAMETER	J-SPECIAL	4.84	---	P168	1B	167	187	725.65	725.24	0.30	136	142	HE-IV	29x45	---
CTH KR	171	1B	383+89.00	60.0	LT	730.28	INLETS 4-FT DIAMETER	HM	4.25	---	P172	1B	171	173	726.03	726.00	0.50	6	10	IV	15	---
CTH KR	173	1B	383+79.00	60.0	LT	730.22	INLETS 4-FT DIAMETER	HM	4.22	---	P174	1B	173	175	726.00	725.64	0.50	73	77	IV	15	---
CTH KR	175	1B	383+02.47	60.0	LT	730.03	INLETS 4-FT DIAMETER	HM	4.39	---	P176	1B	175	187	725.64	725.47	0.50	34	39	IV	15	---
CTH KR	179	2	383+89.00	60.0	RT	730.27	INLETS 4-FT DIAMETER	HM	4.07	---	P180	2	179	181	726.20	726.17	0.50	6	10	IV	15	---

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	181	2	383+79.00	60.0	RT	730.23	INLETS 4-FT DIAMETER	HM	4.06	---	P182	2	181	183	726.17	725.81	0.50	73	77	IV	15	---
CTH KR	183	2	383+02.47	60.0	RT	730.03	INLETS 4-FT DIAMETER	HM	4.22	---	P184	2	183	185	725.81	725.54	0.50	55	58	IV	15	---
CTH KR	185	2	383+02.47	0.0	RT	729.54	INLETS 3-FT DIAMETER	BEEHIVE	4.00	---	P186	2	185	187	725.54	725.47	0.50	15	19	IV	15	---
CTH KR	187	1B	383+02.47	19.0	LT	729.96	MANHOLES 6-FT DIAMETER	J-SPECIAL	4.72	---	P190	1B	187	193	725.24	724.85	0.30	131	137	HE-IV	29x45	---
CTH KR	193	1B	381+65.50	19.0	LT	730.49	MANHOLES 6-FT DIAMETER	J-SPECIAL	5.64	---	P194	1B	193	203	724.85	724.37	0.30	160	166	HE-IV	29x45	---
CTH KR	203	1B	380+00.00	19.5	LT	731.38	MANHOLES 6-FT DIAMETER	J-SPECIAL	7.01	---	P204	1B	203	205	724.37	724.26	0.30	37	43	IV	36	---
CTH KR	205	1B	379+57.09	19.0	LT	731.59	MANHOLES 6-FT DIAMETER	J-SPECIAL	7.33	---	P206	1B	205	PE207	724.26	724.20	0.30	19	22	IV	36	---
CTH KR	E208	1B	379+24.73	19.0	LT	731.77	---	J-SPECIAL	7.57	ADJUST TO FINISHED GRADE AND INSTALL COVER	PE207	---	P206	E208	724.20	---	---	---	---	---	36	EXIST PIPE INTERPOL ELEV
CTH KR	301	2	421+50.00	16.0	RT	750.43	INLETS 4-FT DIAMETER	HM	6.11	---	P302	2	301	303	744.32	744.16	0.50	32	36	III	15	---
CTH KR	303	1B	421+50.00	16.0	LT	750.43	INLETS 4-FT DIAMETER	57	8.91	---	P304	1B	303	311	741.52	741.04	0.50	96	100	III	24	---
CTH KR	305	1B	420+50.00	60.0	LT	749.65	INLETS 4-FT DIAMETER	HM	6.28	---	P306	1B	305	311	743.37	743.20	0.50	35	40	III	15	---
CTH KR	307	2	420+50.00	60.0	RT	749.65	INLETS 4-FT DIAMETER	HM	6.11	---	P308	2	307	309	743.54	743.36	0.50	36	40	III	15	---
CTH KR	309	2	420+50.00	16.0	RT	749.49	INLETS 4-FT DIAMETER	HM	6.13	---	P310	2	309	311	743.36	743.20	0.50	32	37	III	15	---
CTH KR	311	1B	420+50.00	16.0	LT	749.49	MANHOLES 5-FT DIAMETER	HM	8.45	---	P312	1B	311	315	741.04	740.44	0.50	120	125	III	24	---
CTH KR	313	2	419+25.00	16.0	RT	748.03	INLETS 4-FT DIAMETER	HM	6.11	---	P314	2	313	315	741.92	741.76	0.50	32	37	III	15	---

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	315	1B	419+25.00	16.0	LT	748.03	MANHOLES 5-FT DIAMETER	HM	7.59	---	P316	1B	315	323	740.44	739.84	0.50	120	125	III	24	---
CTH KR	317	1B	418+00.00	60.0	LT	747.33	INLETS 4-FT DIAMETER	HM	6.35	---	P318	1B	317	323	740.98	740.80	0.50	35	40	III	15	---
CTH KR	319	2	418+00.00	60.0	RT	747.33	INLETS 4-FT DIAMETER	HM	6.19	---	P320	2	319	321	741.14	740.96	0.50	36	40	III	15	---
CTH KR	321	2	418+00.00	16.0	RT	747.17	INLETS 4-FT DIAMETER	HM	6.21	---	P322	2	321	323	740.96	740.80	0.50	32	37	III	15	---
CTH KR	323	1B	418+00.00	16.0	LT	747.17	MANHOLES 5-FT DIAMETER	HM	7.33	---	P324	1B	323	327	739.84	739.34	0.50	99	104	III	24	---
CTH KR	325	2	416+95.63	16.0	RT	746.65	INLETS 4-FT DIAMETER	HM	6.19	---	P326	2	325	327	740.46	740.30	0.50	32	37	III	15	---
CTH KR	327	1B	416+95.63	16.0	LT	746.65	MANHOLES 5-FT DIAMETER	57	7.31	---	P328	1B	327	341	739.34	738.69	0.50	131	136	III	24	---
CTH KR	329	1B	415+70.13	61.6	LT	746.18	INLETS 4-FT DIAMETER	HM	6.52	---	P330	1B	329	331	739.66	739.63	0.50	6	10	III	15	---
CTH KR	331	1B	415+60.16	62.4	LT	746.13	INLETS 4-FT DIAMETER	HM	6.50	---	P332	1B	331	341	739.63	739.44	0.50	38	42	III	15	---
CTH KR	333	2	415+60.00	60.0	RT	746.13	INLETS 4-FT DIAMETER	HM	6.37	---	P334	2	333	335	739.76	739.58	0.50	36	40	III	15	---
CTH KR	335	2	415+60.00	16.0	RT	745.97	INLETS 4-FT DIAMETER	HM	6.39	---	P336	2	335	339	739.58	739.47	0.50	21	25	III	15	---
CTH KR	337	1B	415+70.13	6.2	LT	745.83	INLETS 4-FT DIAMETER	HM	6.33	---	P338	1B	337	339	739.50	739.47	0.50	6	10	III	15	---
CTH KR	339	1B	415+60.16	5.4	LT	745.76	INLETS 4-FT DIAMETER	HM	6.29	---	P340	1B	339	341	739.47	739.44	0.50	6	11	III	15	---
CTH KR	341	1B	415+60.00	18.0	LT	746.05	MANHOLES 5-FT DIAMETER	J-SPECIAL	7.86	---	P342	1B	341	353	738.19	737.67	0.50	105	110	III	30	---
CTH KR	345	1B	414+50.00	68.0	LT	745.42	INLETS 4-FT DIAMETER	HM	6.28	---	P346	1B	345	353	739.14	738.92	0.50	44	48	III	15	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	347	2	414+50.00	16.0	RT	745.42	INLETS 4-FT DIAMETER	HM	6.37	---	P348	2	347	351	739.05	738.99	0.50	13	17	IV	15	---
CTH KR	351	1B	414+50.16	3.4	RT	745.04	INLETS 4-FT DIAMETER	HM	6.05	---	P352	1B	351	353	738.99	738.92	0.50	15	19	IV	15	---
CTH KR	353	1B	414+50.00	18.0	LT	745.50	MANHOLES 5-FT DIAMETER	J-SPECIAL	7.83	---	P354	1B	353	367	737.67	737.19	0.50	95	100	III	30	---
CTH KR	357	1B	413+50.00	68.0	LT	744.92	INLETS 4-FT DIAMETER	HM	6.27	---	P358	1B	357	367	738.65	738.44	0.50	43	48	III	15	---
CTH KR	359	2	413+50.00	60.0	RT	745.08	INLETS 4-FT DIAMETER	HM	6.32	---	P360	2	359	361	738.76	738.58	0.50	36	40	III	15	---
CTH KR	361	2	413+50.00	16.0	RT	744.92	INLETS 4-FT DIAMETER	HM	6.34	---	P362	2	361	365	738.58	738.54	0.50	8	12	IV	15	---
CTH KR	365	1B	413+50.00	8.0	RT	744.44	INLETS 4-FT DIAMETER	HM	5.90	---	P366	1B	365	367	738.54	738.44	0.50	20	25	IV	15	---
CTH KR	367	1B	413+50.00	16.0	LT	744.92	MANHOLES 5-FT DIAMETER	57	7.73	---	P368	1B	367	387	737.19	736.71	0.50	95	100	III	30	---
CTH KR	369	1B	412+60.00	68.0	LT	744.47	INLETS 4-FT DIAMETER	HM	6.27	---	P370	1B	369	371	738.20	738.17	0.50	6	10	III	15	---
CTH KR	371	1B	412+50.00	68.0	LT	744.42	INLETS 4-FT DIAMETER	HM	6.25	---	P372	1B	371	387	738.17	737.96	0.50	43	48	IV	15	---
CTH KR	373	2	412+60.00	60.0	RT	744.63	INLETS 4-FT DIAMETER	HM	6.32	---	P374	2	373	375	738.31	738.28	0.50	6	10	III	15	---
CTH KR	375	2	412+50.00	60.0	RT	744.58	INLETS 4-FT DIAMETER	HM	6.30	---	P376	2	375	379	738.28	738.10	0.50	36	40	III	15	---
CTH KR	377	2	412+60.00	16.0	RT	744.47	INLETS 4-FT DIAMETER	HM	6.34	---	P378	2	377	379	738.13	738.10	0.50	6	10	III	15	---
CTH KR	379	2	412+50.00	16.0	RT	744.42	INLETS 4-FT DIAMETER	HM	6.32	---	P380	2	379	383	738.10	738.06	0.50	8	12	IV	15	---
CTH KR	381	1B	412+60.00	8.0	RT	743.99	INLETS 4-FT DIAMETER	HM	5.90	---	P382	1B	381	383	738.09	738.06	0.50	6	10	IV	15	---

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM	TO	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	383	1B	412+50.00	8.0	RT	743.94	INLETS 4-FT DIAMETER	HM	5.88	---	P384	1B	383	387	738.06	737.96	0.50	20	25	IV	15	---
CTH KR	385	1B	412+60.00	16.0	LT	744.56	INLETS 4-FT DIAMETER	HM	3.84	---	P386	1B	385	387	740.72	740.69	0.50	6	10	IV	15	---
CTH KR	387	1B	412+50.00	16.0	LT	744.42	MANHOLES 5-FT DIAMETER	HM	7.71	---	P388	1B	387	405	736.71	736.25	0.50	92	97	III	30	---
CTH KR	391	1A	411+51.64	68.0	LT	743.93	INLETS 4-FT DIAMETER	HM	6.21	---	P392	1A	391	405	737.72	737.50	0.50	43	48	III	15	---
CTH KR	393	2	411+43.14	60.0	RT	744.05	INLETS 4-FT DIAMETER	HM	6.22	---	P394	2	393	397	737.83	737.64	0.50	38	42	IV	15	---
CTH KR	395	2	411+62.54	16.0	RT	743.98	INLETS 4-FT DIAMETER	HM	6.31	---	P396	2	395	397	737.67	737.64	0.50	6	10	IV	15	---
CTH KR	397	2	411+52.78	15.5	RT	743.93	INLETS 4-FT DIAMETER	HM	6.29	---	P398	2	397	401	737.64	737.60	0.50	7	11	IV	15	---
CTH KR	399	1B	411+75.00	8.0	RT	743.69	INLETS 4-FT DIAMETER	HM	6.00	---	P400	1B	399	401	737.69	737.60	0.50	18	22	IV	15	---
CTH KR	401	1B	411+52.54	8.0	RT	743.68	INLETS 4-FT DIAMETER	HM	6.08	---	P402	1B	401	405	737.60	737.50	0.50	20	25	IV	15	---
CTH KR	403	1B	411+62.54	16.0	LT	743.98	INLETS 4-FT DIAMETER	HM	3.73	---	P404	1B	403	405	740.25	740.22	0.50	6	10	IV	15	---
CTH KR	405	1A	411+52.54	16.0	LT	743.93	MANHOLES 5-FT DIAMETER	HM	7.68	---	P406	1A	405	461	736.25	735.39	0.50	172	178	III	30	---
CTH KR	445	1A	410+69.14	114.6	LT	743.05	INLETS 4-FT DIAMETER	H	5.57	---	P446	1A	445	447	737.48	737.32	0.50	32	36	IV	15	---
CTH KR	447	1A	410+33.14	114.6	LT	742.87	INLETS 4-FT DIAMETER	H	5.55	---	P448	1A	447	449	737.32	737.05	0.50	53	57	IV	15	---
CTH KR	449	1A	410+27.34	58.0	LT	743.47	MANHOLES 4-FT DIAMETER	J-SPECIAL	6.42	---	P450	1A	449	451	737.05	736.81	0.50	48	52	III	15	---
CTH KR	451	1B	409+75.00	60.0	LT	743.20	INLETS 4-FT DIAMETER	HM	6.39	---	P452	1B	451	461	736.81	736.64	0.50	34	39	III	15	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION ^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE ^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY. ^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	453	2	409+75.00	68.0	RT	743.05	INLETS 4-FT DIAMETER	HM	6.05	---	P454	2	453	455	737.00	736.78	0.50	44	48	IV	15	---
CTH KR	455	2	409+75.00	16.0	RT	743.04	INLETS 4-FT DIAMETER	HM	6.26	---	P456	2	455	459	736.78	736.68	0.50	20	24	IV	15	---
CTH KR	459	2	409+75.00	8.0	LT	742.68	INLETS 4-FT DIAMETER	HM	6.00	---	P460	2	459	461	736.68	736.64	0.50	8	13	IV	15	---
CTH KR	461	1B	409+75.00	16.0	LT	743.05	MANHOLES 6-FT DIAMETER	57	8.16	---	P462	1B	461	469	734.89	734.48	0.50	82	88	III	36	---
CTH KR	463	2	408+87.50	68.0	RT	742.61	INLETS 4-FT DIAMETER	HM	6.02	---	P464	2	463	465	736.59	736.37	0.50	44	48	IV	15	---
CTH KR	465	2	408+87.50	16.0	RT	742.65	INLETS 4-FT DIAMETER	HM	6.28	---	P466	2	465	467	736.37	736.27	0.50	20	24	IV	15	---
CTH KR	467	2	408+87.50	8.0	LT	742.13	INLETS 4-FT DIAMETER	HM	5.86	---	P468	2	467	469	736.27	736.23	0.50	8	13	IV	15	---
CTH KR	469	1B	408+87.50	16.0	LT	742.61	MANHOLES 6-FT DIAMETER	HM	8.13	---	P470	1B	469	479	734.48	734.07	0.50	82	88	III	36	---
CTH KR	471	1B	408+00.00	60.0	LT	742.33	INLETS 4-FT DIAMETER	HM	6.34	---	P472	1B	471	479	735.99	735.82	0.50	34	39	III	15	---
CTH KR	473	2	408+00.00	68.0	RT	742.17	INLETS 4-FT DIAMETER	HM	5.99	---	P474	2	473	475	736.18	735.96	0.50	44	48	IV	15	---
CTH KR	475	2	408+00.00	16.0	RT	742.21	INLETS 4-FT DIAMETER	HM	6.25	---	P476	2	475	477	735.96	735.86	0.50	20	24	IV	15	---
CTH KR	477	2	408+00.00	8.0	LT	741.69	INLETS 4-FT DIAMETER	HM	5.83	---	P478	2	477	479	735.86	735.82	0.50	8	13	IV	15	---
CTH KR	479	1B	408+00.00	16.0	LT	742.17	MANHOLES 6-FT DIAMETER	HM	8.10	---	P480	1B	479	485	734.07	733.60	0.50	94	100	III	36	---
CTH KR	481	2	407+09.81	5.1	LT	741.30	INLETS 4-FT DIAMETER	HM	5.86	---	P482	2	481	483	735.44	735.41	0.50	6	10	IV	15	---
CTH KR	483	2	406+99.84	4.3	LT	741.27	INLETS 4-FT DIAMETER	HM	5.86	---	P484	2	483	485	735.41	735.35	0.50	12	17	IV	15	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	485	1B	407+00.00	16.0	LT	741.67	MANHOLES 6-FT DIAMETER	HM	8.07	---	P486	1B	485	495	733.60	733.15	0.48	94	100	III	36	---
CTH KR	487	1B	406+00.00	60.0	LT	741.33	INLETS 4-FT DIAMETER	HM	6.26	---	P488	1B	487	495	735.07	734.90	0.50	34	39	III	15	---
CTH KR	489	2	405+99.84	63.7	RT	741.26	INLETS 4-FT DIAMETER	HM	6.00	---	P490	2	489	493	735.26	735.00	0.50	52	56	IV	15	---
CTH KR	491	2	406+09.81	2.9	RT	740.96	INLETS 4-FT DIAMETER	HM	5.93	---	P492	2	491	493	735.03	735.00	0.50	6	10	IV	15	---
CTH KR	493	2	405+99.84	3.7	RT	740.93	INLETS 4-FT DIAMETER	HM	5.93	---	P494	2	493	495	735.00	734.90	0.50	20	25	IV	15	---
CTH KR	495	1B	406+00.00	16.0	LT	741.17	MANHOLES 6-FT DIAMETER	57	8.02	---	P496	1B	495	501	733.15	732.58	0.48	119	125	IV	36	---
CTH KR	497	2	404+84.81	12.9	RT	740.54	INLETS 4-FT DIAMETER	HM	6.03	---	P498	2	497	499	734.51	734.48	0.50	6	10	IV	15	---
CTH KR	499	2	404+74.84	13.7	RT	740.50	INLETS 4-FT DIAMETER	HM	6.02	---	P500	2	499	501	734.48	734.33	0.50	30	35	IV	15	---
CTH KR	501	1B	404+75.00	16.0	LT	740.55	MANHOLES 6-FT DIAMETER	HM	7.97	---	P502	1B	501	509	732.58	732.01	0.48	119	125	IV	36	---
CTH KR	503	1B	403+50.00	60.0	LT	740.08	INLETS 4-FT DIAMETER	HM	6.15	---	P504	1B	503	509	733.93	733.76	0.50	34	39	IV	15	---
CTH KR	505	2	403+50.00	60.0	RT	740.08	INLETS 4-FT DIAMETER	HM	5.98	---	P506	2	505	507	734.10	733.92	0.50	36	40	IV	15	---
CTH KR	507	2	403+50.00	16.0	RT	739.92	INLETS 4-FT DIAMETER	HM	6.00	---	P508	2	507	509	733.92	733.76	0.50	32	37	IV	15	---
CTH KR	509	1B	403+50.00	16.0	LT	739.92	MANHOLES 6-FT DIAMETER	HM	7.91	---	P510	1B	509	513	732.01	731.44	0.48	119	125	IV	36	---
CTH KR	511	2	402+25.00	16.0	RT	739.29	INLETS 4-FT DIAMETER	HM	5.94	---	P512	2	511	513	733.35	733.19	0.50	32	37	IV	15	---
CTH KR	513	1B	402+25.00	16.0	LT	739.30	MANHOLES 6-FT DIAMETER	57	7.86	---	P514	1B	513	521	731.44	730.87	0.48	119	125	IV	36	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	515	1B	401+00.00	60.0	LT	738.83	INLETS 4-FT DIAMETER	HM	6.04	---	P516	1B	515	521	732.79	732.62	0.50	34	39	IV	15	---
CTH KR	517	2	401+00.00	60.0	RT	738.83	INLETS 4-FT DIAMETER	HM	5.87	---	P518	2	517	519	732.96	732.78	0.50	36	40	IV	15	---
CTH KR	519	2	401+00.00	16.0	RT	738.67	INLETS 4-FT DIAMETER	HM	5.89	---	P520	2	519	521	732.78	732.62	0.50	32	37	IV	15	---
CTH KR	521	1B	401+00.00	16.0	LT	738.67	MANHOLES 6-FT DIAMETER	HM	7.80	---	P522	1B	521	525	730.87	730.42	0.48	94	100	IV	36	---
CTH KR	523	2	400+00.00	16.0	RT	738.17	INLETS 4-FT DIAMETER	HM	5.84	---	P524	2	523	525	732.33	732.17	0.50	32	37	IV	15	---
CTH KR	525	1B	400+00.00	16.0	LT	738.17	MANHOLES 6-FT DIAMETER	HM	7.75	---	P526	1B	525	531	730.42	729.97	0.48	94	100	IV	36	---
CTH KR	527	2	399+00.00	60.0	RT	737.83	INLETS 4-FT DIAMETER	HM	5.76	---	P528	2	527	529	732.07	731.89	0.50	36	40	IV	15	---
CTH KR	529	2	399+00.00	16.0	RT	737.67	INLETS 4-FT DIAMETER	HM	5.78	---	P530	2	529	531	731.89	731.73	0.50	32	38	IV	15	---
CTH KR	531	1B	399+00.00	16.0	LT	737.67	MANHOLES 7-FT DIAMETER	57	7.70	---	P532	1B	531	533	729.97	729.82	0.48	32	38	IV	36	---
CTH KR	533	1B	399+00.00	60.0	LT	737.83	MANHOLES 5-FT DIAMETER	HM	8.01	---	P534	1B	533	PE535	729.82	729.45	0.45	83	86	IV	36	---
---	---	---	---	---	---	---	---	---	--	---	PE535	---	P534	---	729.45	---	---	---	---	---	36	EXIST PIPE INTERPOL ELEV
CTH KR	601	2	423+75.00	16.0	RT	750.47	INLETS 4-FT DIAMETER	HM	6.11	---	P602	2	601	603	744.36	744.20	0.50	32	37	III	15	---
CTH KR	603	1B	423+75.00	16.0	LT	750.47	MANHOLES 5-FT DIAMETER	57	7.08	---	P604	1B	603	611	743.39	742.06	1.11	120	125	III	24	---
CTH KR	605	1B	425+00.00	60.0	LT	749.50	INLETS 4-FT DIAMETER	HM	6.28	---	P606	1B	605	611	743.22	743.05	0.50	35	40	III	15	---
CTH KR	607	2	425+00.00	60.0	RT	749.50	INLETS 4-FT DIAMETER	HM	6.11	---	P608	2	607	609	743.39	743.21	0.50	36	40	III	15	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	609	2	425+00.00	16.0	RT	749.34	INLETS 4-FT DIAMETER	HM	6.13	---	P610	2	609	611	743.21	743.05	0.50	32	37	III	15	---
CTH KR	611	1B	425+00.00	16.0	LT	749.34	MANHOLES 5-FT DIAMETER	HM	7.28	---	P612	1B	611	615	742.06	740.73	1.11	120	125	III	24	---
CTH KR	613	2	426+25.00	16.0	RT	748.05	INLETS 4-FT DIAMETER	HM	6.11	---	P614	2	613	615	741.94	741.78	0.50	32	37	III	15	---
CTH KR	615	1B	426+25.00	16.0	LT	748.05	MANHOLES 5-FT DIAMETER	HM	7.32	---	P616	1B	615	623	740.73	739.40	1.11	120	125	III	24	---
CTH KR	617	1B	427+50.00	60.0	LT	746.92	INLETS 4-FT DIAMETER	HM	6.27	---	P618	1B	617	623	740.65	740.48	0.50	35	40	III	15	---
CTH KR	619	2	427+50.00	60.0	RT	746.92	INLETS 4-FT DIAMETER	HM	6.10	---	P620	2	619	621	740.82	740.64	0.50	36	40	III	15	---
CTH KR	621	2	427+50.00	16.0	RT	746.76	INLETS 4-FT DIAMETER	HM	6.12	---	P622	2	621	623	740.64	740.48	0.50	32	37	III	15	---
CTH KR	623	1B	427+50.00	16.0	LT	746.76	MANHOLES 5-FT DIAMETER	57	7.36	---	P624	1B	623	627	739.40	738.07	1.11	120	125	III	24	---
CTH KR	625	2	428+75.00	16.0	RT	745.47	INLETS 4-FT DIAMETER	HM	6.11	---	P626	2	625	627	739.36	739.20	0.50	32	37	III	15	---
CTH KR	627	1B	428+75.00	16.0	LT	745.47	MANHOLES 5-FT DIAMETER	HM	7.40	---	P628	1B	627	639	738.07	736.75	1.10	120	125	III	24	---
CTH KR	629	1B	430+00.00	60.0	LT	744.36	INLETS 4-FT DIAMETER	HM	6.30	---	P630	1B	629	639	738.06	737.89	0.50	35	40	III	15	---
CTH KR	631	2	430+00.00	60.0	RT	744.36	INLETS 4-FT DIAMETER	HM	6.13	---	P632	2	631	635	738.23	738.04	0.50	38	42	III	15	---
CTH KR	633	2	429+89.87	14.5	RT	744.27	INLETS 4-FT DIAMETER	HM	6.20	---	P634	2	633	635	738.07	738.04	0.50	6	10	III	15	---
CTH KR	635	2	429+99.84	13.7	RT	744.15	INLETS 4-FT DIAMETER	HM	6.11	---	P636	2	635	639	738.04	737.89	0.50	30	34	III	15	---
CTH KR	637	1B	429+90.00	16.0	LT	744.29	INLETS 4-FT DIAMETER	HM	4.07	---	P638	1B	637	639	740.22	740.19	0.50	6	10	IV	15	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	639	1B	430+00.00	16.0	LT	744.20	MANHOLES 5-FT DIAMETER	HM	7.45	---	P640	1B	639	647	736.75	735.42	1.11	120	125	III	24	---
CTH KR	641	2	431+29.21	60.0	RT	743.43	INLETS 4-FT DIAMETER	HM	6.25	---	P642	2	641	645	737.18	736.94	0.50	49	53	III	15	---
CTH KR	643	2	431+14.87	4.5	RT	743.12	INLETS 4-FT DIAMETER	HM	6.15	---	P644	2	643	645	736.97	736.94	0.50	6	10	III	15	---
CTH KR	645	2	431+24.84	3.7	RT	743.05	INLETS 4-FT DIAMETER	HM	6.11	---	P646	2	645	647	736.94	736.84	0.50	20	24	III	15	---
CTH KR	647	1B	431+25.00	16.0	LT	743.30	MANHOLES 5-FT DIAMETER	57	7.88	---	P648	1B	647	659	735.42	734.09	1.11	120	125	III	24	---
CTH KR	651	1B	432+50.00	60.0	LT	742.83	INLETS 4-FT DIAMETER	HM	6.59	---	P652	1B	651	659	736.24	736.07	0.50	35	40	III	15	---
CTH KR	653	2	432+50.00	60.0	RT	742.83	INLETS 4-FT DIAMETER	HM	6.42	---	P654	2	653	657	736.41	736.12	0.50	58	62	III	15	---
CTH KR	655	2	432+39.87	5.5	LT	742.29	INLETS 4-FT DIAMETER	HM	6.14	---	P656	2	655	657	736.15	736.12	0.50	6	10	III	15	---
CTH KR	657	2	432+49.84	6.3	LT	742.23	INLETS 4-FT DIAMETER	HM	6.11	---	P658	2	657	659	736.12	736.07	0.50	10	14	III	15	---
CTH KR	659	1B	432+50.00	16.0	LT	742.67	MANHOLES 5-FT DIAMETER	HM	9.64	---	P660	1B	659	679	733.03	731.89	0.95	120	125	III	30	---
CTH KR	661	1B	433+65.00	60.0	LT	742.26	INLETS 4-FT DIAMETER	HM	6.64	---	P662	1B	661	663	735.62	735.59	0.50	6	10	III	15	---
CTH KR	663	1B	433+75.00	60.0	LT	742.21	INLETS 4-FT DIAMETER	HM	6.62	---	P664	1B	663	679	735.59	735.42	0.50	35	40	III	15	---
CTH KR	665	2	433+65.00	60.0	RT	742.25	INLETS 4-FT DIAMETER	HM	6.46	---	P666	2	665	667	735.79	735.76	0.50	6	10	III	15	---
CTH KR	667	2	433+75.00	60.0	RT	742.20	INLETS 4-FT DIAMETER	HM	6.44	---	P668	2	667	675	735.76	735.46	0.50	60	64	III	15	---
CTH KR	673	2	433+65.00	8.0	LT	741.62	INLETS 4-FT DIAMETER	HM	6.13	---	P674	2	673	675	735.49	735.46	0.50	6	10	III	15	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	675	2	433+75.00	8.0	LT	741.57	INLETS 4-FT DIAMETER	HM	6.11	---	P676	2	675	679	735.46	735.42	0.50	8	13	III	15	---
CTH KR	677	1B	433+65.00	16.0	LT	742.10	INLETS 4-FT DIAMETER	HM	6.20	---	P678	1B	677	679	735.90	735.87	0.50	6	10	IV	15	---
CTH KR	679	1B	433+75.00	16.0	LT	742.05	MANHOLES 5-FT DIAMETER	HM	10.16	---	P680	1A	679	699	731.89	730.75	0.95	120	125	III	30	---
CTH KR	681	1A	434+80.93	64.8	LT	741.60	INLETS 4-FT DIAMETER	HM	6.31	---	P682	1A	681	683	735.29	735.26	0.50	6	10	III	15	---
CTH KR	683	1A	434+90.00	69.0	LT	741.53	INLETS 4-FT DIAMETER	HM	6.27	---	P684	1A	683	699	735.26	735.03	0.50	45	50	III	15	---
CTH KR	687	2	435+00.00	60.0	RT	741.50	INLETS 4-FT DIAMETER	HM	6.13	---	P692	2	687	695	735.37	735.07	0.50	60	64	III	15	---
CTH KR	693	2	434+90.00	8.0	LT	741.18	INLETS 4-FT DIAMETER	HM	6.08	---	P694	2	693	695	735.10	735.07	0.50	6	10	III	15	---
CTH KR	695	2	435+00.00	8.0	LT	741.18	INLETS 4-FT DIAMETER	HM	6.11	---	P696	2	695	699	735.07	735.03	0.50	8	13	III	15	---
CTH KR	697	1A	434+90.00	16.0	LT	741.47	INLETS 4-FT DIAMETER	HM	6.41	---	P698	1A	697	699	735.06	735.03	0.50	6	10	III	15	---
CTH KR	699	1A	435+00.00	16.0	LT	741.42	MANHOLES 5-FT DIAMETER	57	10.67	---	P700	1A	699	759	730.75	728.90	0.95	195	200	III	30	---
CTH KR	735	1A	435+63.88	120.5	LT	740.57	INLETS 4-FT DIAMETER	H	6.05	---	P736	1A	735	737	734.52	734.36	0.50	32	36	III	15	---
CTH KR	737	1A	436+00.15	120.5	LT	740.33	INLETS 4-FT DIAMETER	HM	5.97	---	P738	1A	737	739	734.36	734.09	0.50	54	58	III	15	---
CTH KR	739	1A	436+17.66	66.0	LT	740.79	MANHOLES 4-FT DIAMETER	J-SPECIAL	6.70	---	P750	1A	739	751	734.09	733.75	0.50	68	72	III	15	---
CTH KR	741	2	436+39.00	60.0	RT	740.60	INLETS 4-FT DIAMETER	HM	6.47	---	P742	2	741	755	734.13	733.84	0.50	57	61	III	15	---
CTH KR	743	2	436+41.17	5.8	RT	740.50	INLETS 4-FT DIAMETER	HM	6.56	---	P744	2	743	757	733.94	733.66	0.50	57	61	III	15	---

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	751	1B	436+90.00	68.0	LT	739.95	INLETS 4-FT DIAMETER	HM	6.20	---	P752	1B	751	753	733.75	733.72	0.50	6	10	III	15	---
CTH KR	753	1B	437+00.00	68.0	LT	739.83	INLETS 4-FT DIAMETER	HM	6.11	---	P754	1B	753	759	733.72	733.50	0.50	43	48	III	15	---
CTH KR	755	2	437+00.00	60.0	RT	739.99	INLETS 4-FT DIAMETER	HM	6.15	---	P756	2	755	757	733.84	733.66	0.50	36	40	III	15	---
CTH KR	757	2	437+00.00	16.0	RT	739.83	INLETS 4-FT DIAMETER	HM	6.17	---	P758	2	757	759	733.66	733.50	0.50	32	37	III	15	---
CTH KR	759	1B	437+00.00	16.0	LT	739.83	MANHOLES 5-FT DIAMETER	HM	10.93	---	P760	1B	759	763	728.90	727.76	0.95	120	125	III	30	---
CTH KR	761	2	438+25.00	16.0	RT	737.80	INLETS 4-FT DIAMETER	HM	6.11	---	P762	2	761	763	731.69	731.53	0.50	32	37	III	15	---
CTH KR	763	1B	438+25.00	16.0	LT	737.80	MANHOLES 5-FT DIAMETER	57	10.04	---	P764	1B	763	771	727.76	726.62	0.95	120	125	III	30	---
CTH KR	765	1B	439+50.00	68.0	LT	735.21	INLETS 4-FT DIAMETER	HM	6.11	---	P766	1B	765	771	729.10	728.89	0.50	43	48	III	15	---
CTH KR	767	2	439+50.00	60.0	RT	735.37	INLETS 4-FT DIAMETER	HM	6.14	---	P768	2	767	769	729.23	729.05	0.50	36	40	III	15	---
CTH KR	769	2	439+50.00	16.0	RT	735.21	INLETS 4-FT DIAMETER	HM	6.16	---	P770	2	769	771	729.05	728.89	0.50	32	37	III	15	---
CTH KR	771	1B	439+50.00	16.0	LT	735.21	MANHOLES 5-FT DIAMETER	HM	8.92	---	P772	1B	771	775	726.29	725.15	0.95	120	125	III	30	---
CTH KR	773	2	440+75.00	16.0	RT	732.61	INLETS 4-FT DIAMETER	HM	6.05	---	P774	2	773	775	726.56	726.40	0.50	32	37	IV	15	---
CTH KR	775	1B	440+75.00	16.0	LT	732.61	MANHOLES 5-FT DIAMETER	HM	7.46	---	P776	1B	775	781	725.15	724.15	0.95	105	110	IV	30	---
CTH KR	777	2	441+85.00	60.0	RT	730.48	INLETS 4-FT DIAMETER	HM	4.74	---	P778	2	777	779	725.74	725.56	0.50	36	40	IV	15	---
CTH KR	779	2	441+85.00	16.0	RT	730.32	INLETS 4-FT DIAMETER	HM	4.76	---	P780	2	779	781	725.56	725.40	0.50	32	37	IV	15	---

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	781	1B	441+85.00	16.0	LT	730.32	MANHOLES 6-FT DIAMETER	57	6.17	---	P782	1B	781	783	724.15	723.98	0.54	33	39	IV	30	---
CTH KR	783	1B	441+85.00	60.0	LT	730.48	MANHOLES 5-FT DIAMETER	HM	6.50	---	P784	1B	783	PE785	723.98	723.64	0.54	63	66	IV	30	---
---	---	---	---	---	---	---	---	---	--	---	PE785	---	P784	---	723.64	---	---	---	---	---	30	EXIST PIPE INTERPOL ELEV
CTH KR	787	2	442+75.84	12.6	RT	728.57	INLETS 4-FT DIAMETER	HM	6.28	---	P788	2	787	789	722.29	722.15	0.50	29	33	IV	15	---
CTH KR	789	1B	442+76.00	16.0	LT	728.64	MANHOLES 5-FT DIAMETER	57	7.24	---	P790	1B	789	797	721.40	721.12	0.30	94	99	IV	24	---
CTH KR	791	1B	443+75.00	60.0	LT	727.69	INLETS 4-FT DIAMETER	HM	5.65	---	P792	1B	791	797	722.04	721.87	0.50	35	40	IV	15	---
CTH KR	793	2	443+75.00	60.0	RT	727.69	INLETS 4-FT DIAMETER	HM	5.48	---	P794	2	793	795	722.21	721.97	0.50	47	51	IV	15	---
CTH KR	795	2	443+74.84	4.7	RT	727.30	INLETS 4-FT DIAMETER	HM	5.33	---	P796	2	795	797	721.97	721.87	0.50	21	25	IV	15	---
CTH KR	797	1B	443+75.00	16.0	LT	727.53	MANHOLES 5-FT DIAMETER	HM	6.41	---	P798	1B	797	803	721.12	720.83	0.30	95	100	IV	24	---
CTH KR	801	2	444+74.84	3.4	LT	726.56	INLETS 4-FT DIAMETER	HM	4.92	---	P802	2	801	803	721.64	721.58	0.50	13	17	IV	15	---
CTH KR	803	1B	444+75.00	16.0	LT	726.94	MANHOLES 5-FT DIAMETER	HM	6.11	---	P804	1B	803	813	720.83	720.55	0.30	95	100	IV	24	---
CTH KR	807	1B	445+75.00	60.0	LT	726.54	MANHOLES 5-FT DIAMETER	HM	5.07	---	P808	1B	807	813	721.47	721.30	0.50	34	39	IV	15	---
CTH KR	809	2	445+74.84	63.2	RT	726.48	INLETS 4-FT DIAMETER	HM	4.82	---	P810	2	809	811	721.66	721.34	0.50	63	67	IV	15	---
CTH KR	811	2	445+75.00	8.0	LT	725.90	INLETS 4-FT DIAMETER	HM	4.56	---	P812	2	811	813	721.34	721.30	0.50	8	13	IV	15	---
CTH KR	813	1B	445+75.00	16.0	LT	726.38	MANHOLES 5-FT DIAMETER	HM	5.83	---	P814	1B	813	821	720.55	720.27	0.30	95	100	IV	24	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	STRUCTURE COMMENTS	PIPE ID	STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
CTH KR	815	2	446+75.00	68.0	RT	725.83	INLETS 4-FT DIAMETER	HM	4.43	---	P816	2	815	817	721.40	721.06	0.50	68	72	IV	15	---
CTH KR	817	2	446+75.00	8.0	LT	725.35	INLETS 4-FT DIAMETER	HM	4.29	---	P818	2	817	821	721.06	721.02	0.50	8	13	IV	15	---
CTH KR	821	1B	446+75.00	16.0	LT	725.83	MANHOLES 5-FT DIAMETER	57	5.56	---	P822	1B	821	823	720.27	719.99	0.30	95	100	IV	24	---
CTH KR	823	1B	447+75.00	16.0	LT	725.31	MANHOLES 5-FT DIAMETER	HM	--	---	---	---	---	---	--	---	---	---	---	---	---	---

¹DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

^BPIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

^CPLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURE SUMMARY										
611.2004 MANHOLES	611.2005 MANHOLES	611.2006 MANHOLES	611.2007 MANHOLES	611.3003 INLETS	611.3004 INLETS	611.0535 MANHOLE COVERS	611.0627 INLET COVERS	611.0624 INLET COVERS	SPV.0060.008 INLET COVERS	SPV.0060.015 INLET COVERS
4-FT DIAMETER EACH	5-FT DIAMETER EACH	6-FT DIAMETER EACH	7-FT DIAMETER EACH	3-FT DIAMETER EACH	4-FT DIAMETER EACH	TYPE J SPECIAL EACH	TYPE HM EACH	TYPE H EACH	BEEHIVE EACH	TYPE 57 ¹ EACH
2	38	17	1	8	145	16	170	3	8	15

STORM SEWER PIPE SUMMARY								
608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	608.2429 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF
2828	1465	1410	376	2356	942	859	889	657

¹ TOP SLAB OPENINGS FOR INLET COVERS TYPE 57 SHALL BE 2'-0" x 2'-0"

FENCE SAFETY

	616.0700.S
	FENCE
	SAFETY
LOCATION	LF
UNDISTRIBUTED	3,000
PROJECT 3763-00-73 TOTAL	3,000

MOBILIZATION

	619.1000
	MOBILIZATION
LOCATION	EACH
PROJECT 3763-00-73	0.7
PROJECT 3763-00-73 TOTAL	0.7

DRAIN TILE EXPLORATION

	612.0700
	DRAIN TILE
	EXPLORATION
LOCATION	LF
UNDISTRIBUTED	5,000
PROJECT 3763-00-73 TOTAL	5,000

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONCRETE MEDIAN SLOPED NOSE

620.0300 CONCRETE MEDIAN SLOPED NOSE						
STATION	TO	STATION	OFFSET	LOCATION	SF	REMARKS
STAGE 1A						
410+00	-	410+07	MED	CTH KR-MED	56	TYPE 1
410+59	-	410+71	100' LT	100TH AVE-MED	69	TYPE 1
411+14	-	411+21	12' LT	CTH KR-ISLAND	69	TYPE 1
435+24	-	435+31	12' LT	CTH KR-MED	56	TYPE 1
435+62	-	435+74	90' LT	EAST ACCESS-MED	69	TYPE 1
STAGE 1A SUBTOTAL					319	
STAGE 1B						
413+85	-	413+92	12' LT	CTH KR-ISLAND	69	TYPE 1
STAGE 1B SUBTOTAL					69	
STAGE 2						
407+47	-	407+54	12' RT	CTH KR-ISLAND	69	TYPE 1
410+23	-	410+30	12' RT	CTH KR-ISLAND	69	TYPE 1
436+30	-	436+37	RT/LT	CTH KR-MED	87	TYPE 1
411+37	-	411+44	12' RT	CTH KR-MED	56	TYPE 1
STAGE 2 SUBTOTAL					281	
PROJECT 3763-00-73 TOTAL					669	

WATER

624.0100 WATER	
LOCATION	MGAL
AGGREGATE COMPACTION	70
EARTHWORK COMPACTION	650
DUST CONTROL	50
SEEDED AREAS	500
PROJECT 3763-00-73 TOTAL	1,270

INLET PROTECTION

				628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7020 INLET PROTECTION TYPE D EACH
STATION	TO	STATION	LOCATION			
STAGE 1B						
383+00	-	388+00	CTH KR	3	1	2
388+00	-	393+00	CTH KR	3	2	1
393+00	-	398+00	CTH KR	2	1	1
398+00	-	403+00	CTH KR	6	4	2
403+00	-	408+00	CTH KR	6	5	2
408+00	-	413+00	CTH KR	14	6	8
413+00	-	418+00	CTH KR	10	10	--
418+00	-	423+00	CTH KR	6	4	2
423+00	-	428+00	CTH KR	6	4	2
428+00	-	433+00	CTH KR	8	7	1
433+00	-	438+00	CTH KR	13	4	9
438+00	-	443+00	CTH KR	7	5	2
443+00	-	446+50	CTH KR	6	3	3
STAGE 1B SUBTOTAL				90	56	35
STAGE 2						
383+00	-	388+00	CTH KR	3	3	2
388+00	-	393+00	CTH KR	3	5	1
393+00	-	398+00	CTH KR	2	3	1
398+00	-	403+00	CTH KR	6	4	2
403+00	-	408+00	CTH KR	9	6	3
408+00	-	413+00	CTH KR	20	11	9
413+00	-	418+00	CTH KR	6	5	--
418+00	-	423+00	CTH KR	6	4	2
423+00	-	428+00	CTH KR	6	4	2
428+00	-	433+00	CTH KR	10	8	2
433+00	-	438+00	CTH KR	11	3	8
438+00	-	443+00	CTH KR	7	5	2
443+00	-	446+50	CTH KR	7	4	3
STAGE 2 SUBTOTAL				96	65	37
UNDISTRIBUTED				47	30	18
PROJECT 3763-00-73 TOTAL				233	151	90

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

RESTORATION

						627.0200 MULCHING	628.2004 EROSION MAT CLASS 1 TYPE B	629.0210 FERTILIZER TYPE B	630.0140 SEEDING MIXTURE NO. 40	630.0200 SEEDING TEMPORARY
STATION	TO	STATION	OFFSET	LOCATION	SY		SY	CWT	LB	LB
STAGE 1										
383+00	-	410+30	LT	CTH KR	--		15,394	9.7	277	416
410+98	-	435+25	LT	CTH KR	--		9,614	6.1	173	260
436+01	-	447+00	LT	CTH KR	--		4,527	2.8	82	123
STAGE 1 SUBTOTAL					--		29,535	18.6	532	799
STAGE 2										
383+00		384+60	RT	CTH KR	--		676	0.4	13	20
384+75	-	390+11	RT	CTH KR	--		3,098	2.0	56	84
390+23	-	410+55	RT	CTH KR	--		12,105	7.7	218	327
410+85	-	422+53	RT	CTH KR	--		5,915	3.7	106	159
422+65	-	424+12	RT	CTH KR	--		649	0.4	12	18
424+30	-	429+27	RT	CTH KR	--		1,938	1.3	35	53
429+42	-	430+96	RT	CTH KR	--		492	0.3	8	12
431+19	-	434+64	RT	CTH KR	--		1,118	0.7	20	30
434+76	-	435+96	RT	CTH KR	--		456	0.3	8	12
436+08	-	447+00	RT	CTH KR	--		4,235	2.6	77	116
STAGE 2 SUBTOTAL					--		30,682	19.4	553	831
STAGE 3										
383+00	-	407+45	MED	CTH KR	--		7,332	4.6	132	198
413+93	-	432+71	MED	CTH KR	--		5,731	3.6	103	155
436+36	-	447+00	MED	CTH KR	--		2,666	1.7	48	72
STAGE 3 SUBTOTAL					--		15,729	9.9	283	425
UNDISTRIBUTED						15,000	7,595	4.8	137	206
PROJECT 3763-00-73 TOTAL						15,000	83,541	52.7	1,505	2,261

TOPSOIL SPECIAL

					SPV.0180.001 TOPSOIL SPECIAL
STATION	TO	STATION	OFFSET	LOCATION	SY
STAGE 1					
383+00	-	410+30	LT	CTH KR	15,394
410+98	-	435+25	LT	CTH KR	9,614
436+01	-	447+00	LT	CTH KR	4,527
STAGE 1 SUBTOTAL					29,535
STAGE 2					
383+00		384+60	RT	CTH KR	676
384+75	-	390+11	RT	CTH KR	3,098
390+23	-	410+55	RT	CTH KR	12,105
410+85	-	422+53	RT	CTH KR	5,915
422+65	-	424+12	RT	CTH KR	649
424+30	-	429+27	RT	CTH KR	1,938
429+42	-	430+96	RT	CTH KR	492
431+19	-	434+64	RT	CTH KR	1,118
434+76	-	435+96	RT	CTH KR	456
436+08	-	447+00	RT	CTH KR	4,235
STAGE 2 SUBTOTAL					30,682
STAGE 3					
383+00	-	407+45	MED	CTH KR	7,332
413+93	-	432+71	MED	CTH KR	5,731
436+36	-	447+00	MED	CTH KR	2,666
STAGE 3 SUBTOTAL					15,729
WORK BEYOND SLOPE INTERCEPT					7,595
PROJECT 3763-00-73 TOTAL					83,541

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

EROSION CONTROL																
628.1104 628.1504 628.1520 628.1905 628.1910 MOBILIZATIONS 628.7504 628.7555 628.7570 628.7560 SPV.0060.002 SPV.0060.003 SPV.0060.004 SPV.0060.005 SPV.0090.001																
EROSION SILT FENCE SILT FENCE MOBILIZATIONS EMERGENCY TEMPORARY CULVERT PIPE ROCK TRACKING TEMPORARY SAND TEMPORARY EROSION HEAVY DUTY																
BALES MAINTENANCE EROSION EROSION DITCH CHECK BAGS PADS STONE DITCH BAGS SEDIMENT CONTROL FILTER BAGS SILT																
CONTROL LF LF EACH LF EACH LF EACH EACH EACH EACH EACH EACH EACH EACH EACH LF																
STATION	OFF	LOCATION	EACH	LF	LF	EACH	EACH	LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LF
STAGE 1																
383+00 - 387+06	LT	CTH KR	--	406	406	--	--	--	--	--	--	--	--	--	--	--
387+06 - 389+86	LT	CTH KR	--	0	0	--	--	--	--	--	--	--	--	--	--	280
389+86 - 394+17	LT	CTH KR	--	430	430	--	--	--	--	--	--	--	--	--	--	--
394+17 - 395+63	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	--	190
394+91	RT	CTH KR	--	--	--	--	--	--	3	--	--	--	--	--	--	--
403+93 - 405+55	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	--	167
405+55 - 410+00	LT	CTH KR	--	455	455	--	--	--	--	--	--	--	--	--	--	--
410+67	LT	CTH KR	--	--	--	--	--	--	--	--	1	--	--	--	--	--
411+28 - 435+20	LT	CTH KR	--	2400	2400	--	--	--	--	--	--	--	--	--	--	--
435+68	LT	CTH KR	--	--	--	--	--	--	--	--	1	--	--	--	--	--
436+07 - 441+58	LT	CTH KR	--	570	570	--	--	--	--	--	--	--	--	--	--	--
442+11 - 447+00	LT	CTH KR	--	510	510	--	--	--	--	--	--	--	--	--	--	--
STAGE 1 SUBTOTAL			--	4,771	4,771	--	--	--	3	--	2	--	--	--	--	637

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

EROSION CONTROL																	
				628.1104	628.1504	628.1520	628.1905	628.1910	628.7504	628.7555	628.7570	628.7560	SPV.0060.002	SPV.0060.003	SPV.0060.004	SPV.0060.005	SPV.0090.001
				EROSION	SILT FENCE	SILT FENCE	MOBILIZATIONS	MOBILIZATIONS	TEMPORARY	CULVERT PIPE	ROCK	TRACKING	TEMPORARY	SAND	TEMPORARY	EROSION	HEAVY DUTY
				BALES		MAINTENANCE	EROSION	EROSION	DITCH	CHECK	BAGS	PADS	STONE DITCH	BAGS	SEDIMENT	CONTROL	SILT
							CONTROL	CONTROL	CHECKS				CHECKS		TRAPS	FILTER BAGS	FENCE
STATION	OFF	LOCATION		EACH	LF	LF	EACH	EACH	LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LF
STAGE 2																	
22+60 - 25+05	LT	100TH AVE		--	254	254	--	--	--	--	--	--	--	--	--	--	--
22+60 - 24+00	RT	100TH AVE		--	138	138	--	--	--	--	--	--	--	--	--	--	--
24+00 - 25+05	RT	100TH AVE		--	--	--	--	--	--	--	--	--	--	--	--	--	110
383+00 - 384+59	RT	CTH KR		--	160	160	--	--	--	--	--	--	--	--	--	--	--
383+00 - 399+00	RT/LT	BIOSWALE		--	--	--	--	--	300	--	--	--	--	--	--	--	--
384+80 - 389+99	RT	CTH KR		--	523	523	--	--	--	--	--	--	--	--	--	--	--
390+26 - 393+27	RT	CTH KR		--	--	--	--	--	--	--	--	--	--	--	--	--	301
393+27 - 410+20	RT	CTH KR		--	1695	1695	--	--	--	--	--	--	--	--	--	--	--
408+00	RT	CTH KR		--	--	--	--	--	--	2	--	--	--	--	--	--	--
409+96	RT	CTH KR		--	--	--	--	--	--	2	--	--	--	--	--	--	--
410+96 - 412+75	RT	CTH KR		--	--	--	--	--	--	--	--	--	--	--	--	--	160
410+99	RT	CTH KR		--	--	--	--	--	--	3	--	--	--	--	--	--	--
412+75 - 417+47	RT	CTH KR		--	473	473	--	--	--	--	--	--	--	--	--	--	--
417+47 - 419+85	RT	CTH KR		--	--	--	--	--	--	--	--	--	--	--	--	--	240
419+85 - 422+48	RT	CTH KR		--	265	265	--	--	--	--	--	--	--	--	--	--	--
421+47	RT	CTH KR		--	--	--	--	--	--	2	--	--	--	--	--	--	--
422+70 - 424+04	RT	CTH KR		--	135	135	--	--	--	--	--	--	--	--	--	--	--
424+00	RT	CTH KR		--	--	--	--	--	--	1	--	--	--	--	--	--	--
424+38 - 427+69	RT	CTH KR		--	--	--	--	--	--	--	--	--	--	--	--	--	332
427+17	RT	CTH KR		--	--	--	--	--	--	1	--	--	--	--	--	--	--
429+20	RT	CTH KR		--	--	--	--	--	--	1	--	--	--	--	--	--	--
430+82	RT	CTH KR		--	--	--	--	--	--	1	--	--	--	--	--	--	--
431+29 - 434+31	RT	CTH KR		--	--	--	--	--	--	--	--	--	--	--	--	--	303
435+83	RT	CTH KR		--	--	--	--	--	--	2	--	--	--	--	--	--	--
436+75	RT	CTH KR		--	--	--	--	--	--	2	--	--	--	--	--	--	--
437+74	RT	CTH KR		--	--	--	--	--	--	1	--	--	--	--	--	--	--
436+65 - 447+00	RT	CTH KR		--	1040	1040	--	--	--	--	--	--	--	--	--	--	--
STAGE 2 SUBTOTAL				--	4,683	4,683	--	--	300	18	--	--	--	--	--	--	1,446
UNDISTRIBUTED				300	1,418	1,418	6	10	450	5	100	4	20	150	10	150	312
PROJECT 3763-00-73 TOTAL				300	10,872	10,872	6	10	750	26	100	6	20	150	10	150	2,395
ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED																	
PROJECT NO: 3763-00-73					HWY: CTH KR			COUNTY: RACINE			MISCELLANEOUS QUANTITIES					SHEET:	
																E	

PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE			637.2210		637.2215		637.2230		634.0618		SIGN MOUNTED	REMARKS
					SIGNS TYPE II		REFLECTIVE H		SIGNS TYPE II		POSTS WOOD			
					REFLECTIVE H	FOLDING	REFLECTIVE H	FOLDING	REFLECTIVE F	4X6-IN X 18 FT	ON SAME	POST AS		
		IN	IN	IN	SF		SF		SF	EACH				
P150	R2-1	30	X	36	7.50	--	--	--	--	1	--	--	SPEED LIMIT 45	
P151	R2-1	30	X	36	7.50	--	--	--	--	1	--	--	SPEED LIMIT 45	
P154	W3-3	36	X	36	--	--	--	9.00	--	1	--	--	TRAFFIC LIGHT AHEAD-TWO FLAGS	
P155	W3-3	36	X	36	--	--	--	9.00	--	1	--	--	TRAFFIC LIGHT AHEAD-TWO FLAGS	
P156	R6-2R	24	X	30	5.00	--	--	--	--	1	--	--	ONE WAY (ARROW)	
P157	R6-2R	24	X	30	5.00	--	--	--	--	1	--	--	ONE WAY (ARROW)	
P160	D1-65	138	X	30	28.75	--	--	--	--	2	--	--	WISCONN VALLEY WAY NEXT SIGNAL	
P161	D1-65	138	X	30	28.75	--	--	--	--	2	--	--	WISCONN VALLEY WAY NEXT SIGNAL	
P200	W3-3	36	X	36	--	--	--	9.00	--	1	--	--	TRAFFIC LIGHT AHEAD-TWO FLAGS	
P201	W3-3	36	X	36	--	--	--	9.00	--	1	--	--	TRAFFIC LIGHT AHEAD-TWO FLAGS	
P202	W23-2	36	X	36	--	--	--	9.00	--	1	--	--	NEW TRAFFIC PATTERN AHEAD-TWO FLAGS	
P203	W23-2	36	X	36	--	--	--	9.00	--	1	--	--	NEW TRAFFIC PATTERN AHEAD-TWO FLAGS	
P204	D1-65	78	X	30	16.25	--	--	--	--	2	--	--	100TH AVE NEXT SIGNAL	
P205	D1-65	78	X	30	16.25	--	--	--	--	2	--	--	100TH AVE NEXT SIGNAL	
P206	R3-20L	24	X	36	6.00	--	--	--	--	1	P207	--	BEGIN LEFT TURN LANE (ARROW)	
P207	R5-1A	42	X	30	8.75	--	--	--	--	--	P206	--	WRONG WAY	
P208	J4-1	36	X	54	13.50	--	--	--	--	1	--	--	WEST AND KR ASSEMBLY	
P209	J4-1	36	X	54	13.50	--	--	--	--	1	--	--	WEST AND KR ASSEMBLY	
P210	R2-1	30	X	36	7.50	--	--	--	--	1	--	--	SPEED LIMIT 45	
P211	R2-1	30	X	36	7.50	--	--	--	--	1	--	--	SPEED LIMIT 45	
P300	R6-2L	30	X	36	7.50	--	--	--	--	--	TRAFFIC SIGNAL	--	ONE WAY (ARROW)	
P301	R4-7	24	X	30	5.00	--	--	--	--	--	TRAFFIC SIGNAL	--	KEEP RIGHT	
P302	M1-94H	72	X	18	9.00	--	--	--	--	--	TRAFFIC SIGNAL	--	100TH AVE	
P303	R5-1	36	X	36	9.00	--	--	--	--	--	TRAFFIC SIGNAL	--	DO NOT ENTER	
P304	R5-1	36	X	36	9.00	--	--	--	--	--	TRAFFIC SIGNAL	--	DO NOT ENTER	

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE			637.2210	637.2215	637.2230	634.0618	SIGN MOUNTED ON SAME POST AS	REMARKS
		IN	IN	IN	SIGNS TYPE II REFLECTIVE H SF	REFLECTIVE H FOLDING SF	SIGNS TYPE II REFLECTIVE F SF	POSTS WOOD 4X6-IN X 18 FT EACH		
P305	M1-94H	48	X	18	6.00	--	--	--	TRAFFIC SIGNAL	1ST STREET
P306	R1-1F	36	X	36	--	7.46	--	--	TRAFFIC SIGNAL	STOP SIGN FOLDING
P307	R2-1	24	X	30	5.00	--	--	1	--	SPEED LIMIT 55
P308	R4-7	24	X	30	5.00	--	--	1	P338, P340	KEEP RIGHT
P309	J1-1	24	X	39	6.50	--	--	1	--	JCT AND KR
P310	NOT USED				--	--	--	--	--	--
P311	W3-3	36	X	36	--	--	9.00	1	--	TRAFFIC LIGHT AHEAD-TWO FLAGS
P312	R3-20LL	24	X	36	6.00	--	--	1	--	BEGIN LEFT TURN LANE (ARROW)
P313	R5-1	36	X	36	9.00	--	--	--	TRAFFIC SIGNAL	DO NOT ENTER
P314	R5-1	36	X	36	9.00	--	--	--	TRAFFIC SIGNAL	DO NOT ENTER
P315	R1-1F	36	X	36	--	7.46	--	--	TRAFFIC SIGNAL	STOP SIGN FOLDING
P316	R6-2L	30	X	36	7.50	--	--	--	TRAFFIC SIGNAL	ONE WAY (ARROW)
P317	R4-7	24	X	30	5.00	--	--	--	TRAFFIC SIGNAL	KEEP RIGHT
P318	R3-20LL	24	X	36	6.00	--	--	1	--	BEGIN LEFT TURN LANE (ARROW)
P319	R1-1F	36	X	36	--	7.46	--	--	TRAFFIC SIGNAL	STOP SIGN FOLDING
P320	R5-1A	42	X	30	8.75	--	--	1	--	WRONG WAY
P321	R3-20L	24	X	36	6.00	--	--	1	--	BEGIN LEFT TURN LANE (ARROW)
P322	R2-1	30	X	36	7.50	--	--	1	--	SPEED LIMIT 45
P323	R2-1	30	X	36	7.50	--	--	1	--	SPEED LIMIT 45
P324	D1-65	78	X	30	16.25	--	--	2	--	100TH AVENUE NEXT SIGNAL
P325	R6-3	30	X	24	5.00	--	--	--	TRAFFIC SIGNAL	DIVIDED HIGHWAY
P326	W23-2	36	X	36	--	--	9.00	1	--	NEW TRAFFIC PATTERN AHEAD-TWO FLAGS
P327	W23-2	36	X	36	--	--	9.00	1	--	NEW TRAFFIC PATTERN AHEAD-TWO FLAGS
P328	W3-3	36	X	36	--	--	9.00	1	--	TRAFFIC LIGHT AHEAD-TWO FLAGS
P329	W3-3	36	X	36	--	--	9.00	1	--	TRAFFIC LIGHT AHEAD-TWO FLAGS
P330	D1-65	78	X	30	16.25	--	--	2	--	100TH AVE NEXT SIGNAL
P331	R1-1F	36	X	36	--	7.46	--	--	TRAFFIC SIGNAL	STOP SIGN FOLDING
P332	M1-94H	48	X	18	6.00	--	--	--	TRAFFIC SIGNAL	1ST STREET
P333	M1-94H	72	X	18	9.00	--	--	--	TRAFFIC SIGNAL	100TH AVENUE
P334	R1-1F	36	X	36	--	7.46	--	--	TRAFFIC SIGNAL	STOP SIGN FOLDING

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE			637.2210	637.2215	637.2230	634.0618	SIGN MOUNTED ON SAME POST AS	REMARKS
		IN	IN	IN	SIGNS TYPE II REFLECTIVE H SF	SIGNS TYPE II REFLECTIVE H FOLDING SF	SIGNS TYPE II REFLECTIVE F SF	POSTS WOOD 4X6-IN X 18 FT EACH		
P335	R1-1F	36	X	36	--	7.46	--	--	TRAFFIC SIGNAL	STOP SIGN FOLDING
P336	J4-1	36	X	54	13.50	--	--	1	--	EAST AND KR
P337	J4-1	36	X	54	13.50	--	--	1	--	EAST AND KR
P338	R1-1F	36	X	36	--	7.46	--	--	P308, P340	FOLDING STOP
P339	R5-1	36	X	36	9.00	--	--	--	TRAFFIC SIGNAL	DO NOT ENTER
P340	R6-3	30	X	24	5.00	--	--	--	P308, P338	DIVIDED HIGHWAY
P341	R6-3	30	X	24	5.00	--	--	--	TRAFFIC SIGNAL	DIVIDED HIGHWAY
P342	W23-2	36	X	36	--	--	9.00	1	--	NEW TRAFFIC PATTERN AHEAD-TWO FLAGS
P400	R3-20L	24	X	36	6.00	--	--	1	--	BEGIN LEFT TURN LANE (ARROW)
P401	R2-1	30	X	36	7.50	--	--	1	--	SPEED LIMIT 45
P402	R2-1	30	X	36	7.50	--	--	1	--	SPEED LIMIT 45
P403	R1-1	36	X	36	7.46	--	--	1	P404, P411	STOP SIGN
P404	W4-4P	24	X	12	--	--	2.00	--	P403, P411	CROSS TRAFFIC DOES NOT STOP
P405	R4-7	24	X	30	5.00	--	--	1	--	KEEP RIGHT MEDIAN
P406	R1-1	36	X	36	7.46	--	--	1	P407, P412, P419	STOP SIGN
P407	W4-4P	24	X	12	--	--	2.00	--	P406, P412, P419	CROSS TRAFFIC DOES NOT STOP
P408	R6-2L	30	X	36	7.50	--	--	1	--	ONE WAY (ARROW)
P409	R4-7	24	X	30	5.00	--	--	1	--	KEEP RIGHT
P410	R5-1	36	X	36	9.00	--	--	1	--	DO NOT ENTER
P411	R6-3A	30	X	24	5.00	--	--	--	--	DIVIDED HIGHWAY
P412	R6-3A	30	X	24	5.00	--	--	--	--	DIVIDED HIGHWAY
P413	R5-1A	42	X	30	8.75	--	--	1	--	WRONG WAY
P414	R6-2R	24	X	30	5.00	--	--	1	--	ONE WAY (ARROW)
P415	R6-2R	24	X	30	5.00	--	--	1	--	ONE WAY (ARROW)
P416	R6-2R	24	X	30	5.00	--	--	1	--	ONE WAY (ARROW)

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE			637.2210	637.2215	637.2230	634.0618	SIGN MOUNTED ON SAME POST AS	REMARKS
		IN	IN	IN	SIGNS TYPE II REFLECTIVE H SF	SIGNS TYPE II REFLECTIVE H FOLDING SF	SIGNS TYPE II REFLECTIVE F SF	POSTS WOOD 4X6-IN X 18 FT EACH		
P417	R6-2R	24	X	30	5.00	--	--	1	--	ONE WAY (ARROW)
P418	R6-2R	24	X	30	5.00	--	--	1	--	ONE WAY (ARROW)
P419	R4-7	24	X	30	5.00	--	--	--	P406, P407, P412	KEEP RIGHT MEDIAN
P500	NOT USED				--	--	--	--	--	--
P501	J4-1	36	X	54	13.50	--	--	1	--	WEST AND KR
P502	J4-1	36	X	54	13.50	--	--	1	--	WEST AND KR
P503	J3-2	72	X	84	42.00	--	--	2	--	NORTH/SOUTH AND KR
P504	J3-2	72	X	84	42.00	--	--	2	--	NORTH/SOUTH AND KR
P505	W3-3	36	X	36	--	--	9.00	1	--	SIGNAL AHEAD-TWO FLAGS
P506	J1-1	36	X	57	14.25	--	--	1	--	JCT AND KR
P507	J1-1	36	X	57	14.25	--	--	1	--	JCT AND KR
P508	W3-3	36	X	36	--	--	9.00	1	--	SIGNAL AHEAD-TWO FLAGS
P509	R3-20L	24	X	36	6.00	--	--	1	--	BEGIN LEFT TURN LANE (ARROW)
P510	R2-1	30	X	36	7.50	--	--	1	--	SPEED LIMIT 45
P511	R2-1	30	X	36	7.50	--	--	1	--	SPEED LIMIT 45
PROJECT 3763-00-73 TOTAL					676.17	52.22	130.00	72		

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

REMOVING / MOVING SIGNS

SIGN #	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
R300	1	1	--	--	--	DOUBLE ARROW
M301	--	--	1	1	--	CLASS B HWY
R302	1	1	--	--	--	SPEED LIMIT 55
R303	1	1	--	--	--	STOP SIGN
R500	1	1	--	--	--	SIGNAL AHEAD
R501	1	1	--	--	R502	JCT
R502	1	--	--	--	R501	COUNTY H
PROJECT 3763-00-73	6	5	1	1		

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

TRAFFIC CONTROL

	643.5000
	TRAFFIC CONTROL
LOCATION	EACH
PROJECT 3763-00-73	0.7
PROJECT 3763-00-73 TOTAL	0.7

TRAFFIC CONTROL

		643.0920	
		TRAFFIC CONTROL	
		COVERING SIGNS TYPE II	
	EACH	NUMBER OF	NUMBER OF
		CYCLES	SIGNS
LOCATION			
CTH KR	60	1	60
PROJECT 3763-00-73 TOTAL	60		

TRAFFIC CONTROL

				643.0300		643.0420		643.0500		643.0600		643.0705		643.0715	
				TRAFFIC CONTROL DRUMS		TRAFFIC CONTROL BARRICADES TYPE III		TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS		TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES		TRAFFIC CONTROL WARNING LIGHTS TYPE A		TRAFFIC CONTROL WARNING LIGHTS TYPE C	
STAGE	LOCATION	STAGE DURATION DAYS	EACH**	DAY	EACH**	DAY	EACH	EACH	EACH	EACH	EACH	DAY	EACH**	DAY	
1	STAGE 1A CTH KR	45	36	1,620	--	--	--	--	--	--	--	--	--	--	
1B	STAGE 1B CTH KR	100	--	--	27	2,700	--	--	--	--	54	5,400	--	--	
2	STAGE 2 CTH KR	92	--	--	23	2,116	140	140	46	4,232	--	--			
3	STAGE 3 CTH KR	15	188	2,820	32	480	--	--	64	960	30	450			
5	STAGE 5 CTH KR	14	30	420	4	56	--	--	8	112	16	224			
UNDISTRIBUTED				486	535	14	14	1,070	67						
PROJECT 3763-00-73 TOTAL				5,346	5,887	154	154	11,774	741						

**FOR INFORMATION ONLY

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

TRAFFIC CONTROL												
		643.0900	643.1050		646.9000	646.9010	646.9110	649.0105		649.0205	649.0805	
		TRAFFIC	TRAFFIC		MARKING	MARKING	MARKING	TEMPORARY		TEMPORARY	TEMPORARY	
		CONTROL	CONTROL		REMOVAL	REMOVAL LINE	REMOVAL LINE	MARKING LINE		MARKING	MARKING	
		SIGNS	SIGNS		LINE	WATER BLASTING	WATER BLASTING	PAINT		LINE	STOP LINE	
			PCMS		4-INCH	4-INCH	8-INCH	4-INCH		PAINT	PAINT	
					LF	LF	LF	WHITE	YELLOW	8-INCH	18-INCH	
STAGE	LOCATION	EACH**	DAY	EACH**	DAY	EACH	EACH	EACH	LF	LF	LF	LF
1	STAGE 1A CTH KR	4	180	--	--	--	--	--	--	--	--	--
1B	STAGE 1B CTH KR	13	1,300	--	--	--	--	--	--	550	--	55
2	STAGE 2 CTH KR	23	2,116	--	--	--	--	--	11,258	17,328	1,400	--
3	STAGE 3 CTH KR	25	375	--	--	--	--	--	5,900	6,050	3,050	--
5	STAGE 5 CTH KR	24	336	--	--	--	--	--	--	--	--	--
UNDISTRIBUTED		431	1	14	5,000	46,000	5,000	1,716	2,393	445	6	
PROJECT 3763-00-73 TOTAL		4,738		14	5,000	46,000	5,000	45,195		4,895	61	

**FOR INFORMATION ONLY

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PAVEMENT MARKINGS																				
					646.1020 MARKING LINE EPOXY 4-INCH		646.1040 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH		646.3040 MARKING LINE GROOVED WET 8-INCH		646.5020 MARKING ARROW EPOXY	646.5120 MARKING WORD EPOXY ONLY	646.6120 MARKING STOP LINE EPOXY 18-INCH	646.7120 MARKING DIAGONAL EPOXY 12-INCH	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	646.8120 MARKING CURB EPOXY	646.8220 MARKING ISLAND NOSE EPOXY	SPV.0090.006 COLD WEATHER MARKING EPOXY 4-INCH	SPV.0090.007 COLD WEATHER MARKING EPOXY 8-INCH	
STATION	TO	STATION	OFFSET	LOCATION	WHITE LF	YELLOW LF	WHITE LF	SOLID LF	SKIP LF	EACH	EACH	LF	LF	LF	LF	EACH	LF	LF	REMARKS	
22+60	-	25+08	LT	100TH AVE	235	--	--	--	--	--	--	--	--	--	--	--	--	--		
22+60	-	25+08	RT	100TH AVE	235	--	--	--	--	--	--	--	--	--	--	--	--	--		
22+60	-	25+32	RT/LT	100TH AVE	--	545	--	--	--	--	--	--	--	--	--	--	--	--	DOUBLE YELLOW	
27+23	-	27+28	LT	100TH AVE	--	--	--	--	--	--	--	--	--	--	--	5	--	--		
27+23	-	27+28	RT	100TH AVE	--	--	--	--	--	--	--	--	--	--	--	5	--	--		
383+00	-	410+07	LT	CTH KR	2708	--	--	--	--	--	--	--	--	--	--	--	--	--		
383+00	-	409+82	LT	CTH KR	--	2683	--	--	--	--	--	--	--	--	--	--	--	--		
383+00	-	410+07	LT	CTH KR	--	--	1355	--	--	--	--	--	--	--	--	--	--	--	SKIPS BETWEEN LANES	
383+00	-	410+03	RT	CTH KR	2704	--	--	--	--	--	--	--	--	--	--	--	--	--		
383+00	-	409+82	RT	CTH KR	--	2683	--	--	--	--	--	--	--	--	--	--	--	--		
383+00	-	410+07	RT	CTH KR	--	--	1355	--	--	--	--	--	--	--	--	--	--	--	SKIPS BETWEEN LANES	
405+10	-	406+53	RT	CTH KR	--	--	--	--	36	--	--	--	--	--	--	--	--	--		
405+91	-	410+03	RT	CTH KR	--	--	--	413	--	--	--	--	--	--	--	--	--	--		
405+91	-	407+58	RT	CTH KR	--	--	--	168	--	--	--	--	--	--	--	--	--	--		
406+53	-	410+03	RT	CTH KR	--	--	--	350	--	--	--	--	--	--	--	--	--	--		
406+73			RT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--	--		
409+09			RT	CTH KR	--	--	--	--	--	--	1	--	--	--	--	--	--	--		
409+50			RT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--	--		
409+77	-	410+00	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	23	--	--		
409+77	-	410+00	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	24	--	--		
410+03			RT	CTH KR	--	--	--	--	--	--	--	12	--	--	--	--	--	--		
410+03			RT	CTH KR	--	--	--	--	--	--	--	48	--	--	--	--	--	--		
410+07			LT	CTH KR	--	--	--	--	--	--	--	--	--	68	--	--	--	--		
410+07			MED	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	1	--		
410+07			RT	CTH KR	--	--	--	--	--	--	--	--	--	48	--	--	--	--		
410+17			LT	CTH KR	--	--	--	--	--	--	--	--	--	73	--	--	--	--		
410+17			RT	CTH KR	--	--	--	--	--	--	--	--	--	49	--	--	--	--		
410+33	-	411+06	LT	CTH KR	--	--	--	--	--	--	--	--	--	74	--	--	--	--		
410+35	-	411+00	LT	CTH KR	--	--	--	--	--	--	--	--	--	66	--	--	--	--		
410+35	-	410+59	LT	CTH KR	--	--	--	--	--	--	--	25	--	--	--	--	--	--		
410+36	-	410+92	RT	CTH KR	--	--	--	--	--	--	--	--	--	56	--	--	--	--		
410+45	-	410+86	RT	CTH KR	--	--	--	--	--	--	--	--	--	41	--	--	--	--		
410+65			LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	1	--	--	100TH AVE NORTH APPROACH	
410+68	-	410+91	RT	CTH KR	--	--	--	--	--	--	--	17	--	--	--	--	--	--	100TH AVE	
411+26			LT	CTH KR	--	--	--	--	--	--	--	--	--	54	--	--	--	--		
411+26			RT	CTH KR	--	--	--	--	--	--	--	--	--	64	--	--	--	--		
411+36			LT	CTH KR	--	--	--	--	--	--	--	--	--	50	--	--	--	--		
411+36	-	436+46	RT	CTH KR	2510	--	--	--	--	--	--	--	--	--	--	--	--	--		
411+36	-	435+32	RT	CTH KR	--	--	1198	--	--	--	--	--	--	--	--	--	--	--	SKIPS BETWEEN LANES	
411+36			RT	CTH KR	--	--	--	--	--	--	--	--	--	64	--	--	--	--		
411+37			MED	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	1	--		
411+40	-	435+00	LT	CTH KR	--	--	1196	--	--	--	--	--	--	--	--	--	--	--	SKIPS BETWEEN LANES	
411+40			LT	CTH KR	--	--	--	--	--	--	--	13	--	--	--	--	--	--		
411+40			LT	CTH KR	--	--	--	--	--	--	--	49	--	--	--	--	--	--		
411+40	-	414+90	LT	CTH KR	--	--	--	350	--	--	--	--	--	--	--	--	--	--		
411+40	-	434+55	LT	CTH KR	2316	--	--	--	--	--	--	--	--	--	--	--	--	--		
411+40	-	415+49	LT	CTH KR	--	--	--	409	--	--	--	--	--	--	--	--	--	--		
413+81	-	415+49	LT	CTH KR	--	--	--	169	--	--	--	--	--	--	--	--	--	--		
411+44	-	411+64	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	23	--	--		
411+44	-	411+64	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	23	--	--		

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PAVEMENT MARKINGS (CONTINUED)

STATION TO STATION			OFFSET	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH		646.1040 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH		646.3040 MARKING LINE GROOVED WET 8-INCH SOLID SKIP		646.5020 MARKING ARROW EPOXY	646.5120 MARKING WORD EPOXY ONLY	646.6120 MARKING STOP LINE EPOXY 18-INCH	646.7120 MARKING DIAGONAL EPOXY 12-INCH	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	646.8120 MARKING CURB EPOXY	646.8220 MARKING ISLAND NOSE EPOXY	SPV.0090.006 COLD WEATHER MARKING EPOXY 4-INCH	SPV.0090.007 COLD WEATHER MARKING EPOXY 8-INCH	REMARKS
					WHITE LF	YELLOW LF	WHITE LF		LF	LF	EACH	EACH	LF	LF	LF	LF	EACH	LF	LF	
411+61	-	435+06	LT	CTH KR	--	2346	--	--	--	--	--	--	--	--	--	--	--	--	--	
411+61	-	435+06	RT	CTH KR	--	2346	--	--	--	--	--	--	--	--	--	--	--	--	--	
		411+95	LT	CTH KR	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
		412+35	LT	CTH KR	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	
		414+67	LT	CTH KR	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
414+90	-	416+33	LT	CTH KR	--	--	--	--	36	--	--	--	--	--	--	--	--	--	--	
431+21	-	435+38	RT	CTH KR	--	--	--	841	--	--	--	--	--	168	--	--	--	--	--	TURN LANE
		432+95	RT/LT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
		434+42	RT/LT	CTH KR	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
		434+83	RT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
435+04	-	436+25	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	122	--	--	--	--	
435+02	-	435+24	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	23	--	--	--	
435+02	-	435+24	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	23	--	--	--	
435+13	-	436+13	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	100	--	--	--	--	
435+16	-	435+62	LT	CTH KR	--	--	--	--	--	--	--	46	--	--	--	--	--	--	--	
		435+31	MED	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
		435+50	LT	CTH KR	33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		435+68	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	EAST ACCESS MEDIAN
436+56	-	447+00	LT	CTH KR	1045	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
436+56	-	447+00	RT	CTH KR	1045	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		436+30	MED	CTH KR	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
436+36	-	436+84	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	40	--	--	--	
436+36	-	436+64	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	19	--	--	--	
436+56	-	447+00	LT	CTH KR	--	1044	--	--	--	--	--	--	--	--	--	--	--	--	--	
436+56	-	447+00	LT	CTH KR	--	--	522	--	--	--	--	--	--	--	--	--	--	--	--	SKIPS BETWEEN LANES
436+56	-	439+85	LT	CTH KR	--	--	--	329	--	--	--	--	--	--	--	--	--	--	--	
436+56	-	447+00	RT	CTH KR	--	--	522	--	--	--	--	--	--	--	--	--	--	--	--	SKIPS BETWEEN LANES
		436+46	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	51	--	--	--	--	
		436+46	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	48	--	--	--	--	
		436+56	LT	CTH KR	--	--	--	--	--	--	--	--	--	--	48	--	--	--	--	
		436+56	RT	CTH KR	--	--	--	--	--	--	--	--	--	--	44	--	--	--	--	
436+78	-	447+00	RT	CTH KR	--	1023	--	--	--	--	--	--	--	--	--	--	--	--	--	
		436+92	LT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
		437+31	LT	CTH KR	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
		439+60	LT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
439+85	-	441+28	LT	CTH KR	--	--	--	--	36	--	--	--	--	--	--	--	--	--	--	
443+84	-	445+33	RT	CTH KR	--	--	--	--	38	--	--	--	--	--	--	--	--	--	--	
444+91	-	446+35	RT	CTH KR	--	--	--	--	36	--	--	--	--	--	--	--	--	--	--	
445+33	-	447+00	RT	CTH KR	--	--	--	167	--	--	--	--	--	--	--	--	--	--	--	
445+33	-	447+00	RT	CTH KR	--	--	--	167	--	--	--	--	--	--	--	--	--	--	--	
		445+57	RT	CTH KR	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
		446+60	RT	CTH KR	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
446+35	-	447+00	RT	CTH KR	--	--	--	65	--	--	--	--	--	--	--	--	--	--	--	
		435+63	94' LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	5	--	--	--	
		435+73	94' LT	CTH KR	--	--	--	--	--	--	--	--	--	--	--	5	--	--	--	
SUBTOTAL					12831	12670	6148	3428	182	11	4	210	168	1120	218	6	0	0		
UNDISTRIBUTED					0	0	0	0	0	0	0	0	0	0	0	0	6148	3610		
PROJECT 3763-00-73 TOTAL					25501		6148	3610		11	4	210	168	1120	218	6	6148	3610		

NOTE: UNDISTRIBUTED QUANTITY USED AT THE DIRECTION OF THE ENGINEER FOR COLD WEATHER MARKINGS

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

SURVEY PROJECT

SPV.0105.001 SURVEY PROJECT 3763-00-73	
LOCATION	LS
PROJECT 3763-00-73	1
PROJECT 3763-00-73 TOTAL	1

SECTION CORNER MONUMENTS

SPV.0060.010 SECTION CORNER MONUMENTS	
LOCATION	EA
PROJECT 3763-00-73	4
PROJECT 3763-00-73 TOTAL	4

SAWCUTS

690.0150 SAWING ASPHALT			
STATION	OFFSET	LOCATION	LF
STAGE 2			
22+60	RT/LT	100TH AVE	25
STAGE 2 SUBTOTAL			25
PROJECT 3763-00-73 TOTAL			25

PAVEMENT CLEANUP PROJECT

SPV.0075.001 PAVEMENT CLEANUP PROJECT 3763-00-73	
LOCATION	HR
PROJECT 3763-00-73	60
PROJECT 3763-00-73 TOTAL	60

MOBILIZATIONS EMERGENCY PAVEMENT REPAIR

SPV.0060.009 MOBILIZATIONS EMERGENCY PAVEMENT REPAIR	
LOCATION	EA
PROJECT 3763-00-73	3
PROJECT 3763-00-73 TOTAL	3

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONNECT DRAIN TILE

	SPV.0060.013 CONNECT DRAIN TILE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	612.0212 PIPE UNDERDRAIN UNPERFORATED 12-INCH
LOCATION	EA	LF	LF
UNDISTRIBUTED	20	400	5,000
PROJECT 3763-00-73 TOTAL	20	400	5,000

NOTE: ADDITIONAL STORM SEWER QUANTITY SHOWN ELSEWHERE IN THE PLANS

WATER TAP SERVICE AND IRRIGATION SYSTEM

	SPV.0105.631 WATER TAP SERVICE AND IRRIGATION SYSTEM 3763-00-73
LOCATION	LS
PROJECT 3763-00-73	1
PROJECT 3763-00-73 TOTAL	1

CATEGORY 6000

REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES

	SPV.0170.001 REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES
LOCATION	STA
PROJECT 3763-00-73	15
PROJECT 3763-00-73 TOTAL	15

CONTROL OF WATER

	SPV.0105.011 CONTROL OF WATER PROJECT 3763-00-73
LOCATION	LS
PROJECT 3763-00-73	1
PROJECT 3763-00-73 TOTAL	1

PIPE UNDERDRAIN

				SPV.0090.002 PIPE UNDERDRAIN 6-INCH SPECIAL LF
STATION TO STATION	OFFSET	LOCATION		
STAGE 1				
383+00 - 447+00	RT/LT	CTH KR		9950
STAGE 2 SUBTOTAL				9950
UNDISTRIBUTED				1,000
PROJECT 3763-00-73 TOTAL				10,950

NOTE: CONNECT PIPE UNDERDRAIN TO CURBLINE INLETS

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

3

SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY		
QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CONTROLLER WITH CO-PROCESSOR AND CABINET
2	EACH	POLES TYPE 10
2	EACH	POLES TYPE 12
1	EACH	MONOTUBE ARMS 20 FT
1	EACH	MONOTUBE ARMS 25 FT
2	EACH	MONOTUBE ARMS 45 FT
2	EACH	LUMINAIRE ARMS STEEL 15-FT
4	EACH	EVP DETECTOR HEAD WITH CONFIRMATION BEACONS (HEADS A, B, C, D)
3	EACH	RADAR DETECTOR UNIT - EXTENDED (RE1, RE2, RE3)
1	EACH	RADAR DETECTOR UNIT - MATRIX (RM1)
1	EACH	CELL MODEM
1	EACH	ETHERNET SWITCH

CTH KR & 100TH STREET / FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

CONDUIT

		652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
FROM	TO		
CB1	PB1	--	48
PB1	PB2	--	28
PB2	PB3	--	84
PB3	PB4	--	170
PB4	PB5	--	120
PB5	PB6	--	48
PB6	PB7	32	--
PB6	PB8	--	104
PB8	PB9	--	168
PB9	PB10	--	72
PB10	PB11	--	72
PB11	PB12	--	204
PB12	PB13	--	120
PB13	PB14	14	--
PB13	PB15	--	48
PB15	PB16	--	104
PB16	PB17	--	94
PB17	CB1	--	30
SUBTOTALS		46	1514

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT (CONT.)

		652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
FROM	TO		
PB1	SB1	12	--
PB3	SB2	--	6
PB3	SB3	27	--
PB4	SB4	23	--
PB5	SB5	24	--
PB6	SB6	7	--
PB8	SB7	--	8
PB8	SB8	29	--
PB9	SB9	21	--
PB11	SB10	--	12
PB11	SB11	23	--
PB12	SB12	38	--
PB14	SB13	24	--
PB15	SB14	19	--
PB16	SB15	--	27
PB16	SB16	37	--
SUBTOTALS		284	53
TOTALS		330	1567

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE



LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT)X(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
11	PB5	409+78.1	0.0'LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	72	234	226
12	PB5	410+06.1	0.0'LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	72	234	226
51	PB14	411+65.1	0.0'LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	72	164	226
52	PB14	411+37.1	0.0'LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	72	164	226
82	PB2	25+31.1	6.0'RT	6'X20'	3	HMA	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	80	47	250
83	PB2	25+03.1	6.0'RT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	76	47	238
S1	PB7	409+50.0	48.0'LT	6'X6'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	90	290	370
S2	PB7	409+50.0	36.0'LT	6'X6'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	66	290	274
S3	PB7	409+50.0	24.0'LT	6'X6'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	44	290	186
S4	PB3	25+00.0	7.0'LT	6'X10'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	52	88	166
S5	PB16	411+73.0	48.0'RT	6'X6'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	44	74	142
S6	PB16	411+73.0	36.0'RT	6'X6'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	102	74	232
S7	PB15	411+73.0	24.0'RT	6'X6'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	70	126	136
TOTALS								912	2122	2898

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CTH KR & 100TH STREET / FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135*	653.0140
			PULL BOXES STEEL 24X36-INCH EACH	PULL BOXES STEEL 24X42-INCH EACH
PB1	411+0.8	96.0'RT	--	1
PB2	25+11.1	20.8'RT	--	1
PB3	25+11.1	21.1'LT	--	1
PB4	409+82.1	72.0'RT	--	1
PB5	409+82.1	12.0'RT	--	1
PB6	409+82.1	12.0'LT	--	1
PB7	409+50	12.0'LT	1	--
PB8	409+82.1	64.0'LT	--	1
PB9	27+38.0	36.0'LT	--	1
PB10	27+38.0	0.0'LT	--	1
PB11	27+38.0	36.0'RT	--	1
PB12	411+75.0	72.0'LT	--	1
PB13	411+75.0	12.0'LT	--	1
PB14	411+61.1	12.0'LT	1	--
PB15	411+75.0	12.0'RT	--	1
PB16	411+75.0	64.0'RT	--	1
PB17	411+31.7	87.9'RT	--	1
TOTALS			2	15

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CTH KR & 100TH STREET / FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101	654.0102	654.0110	654.0113	654.0217
			CONCRETE BASES TYPE 1 EACH	CONCRETE BASES TYPE 2 EACH	CONCRETE BASES TYPE 10 EACH	CONCRETE BASES TYPE 13 EACH	CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	411+20.0	94.0'RT	--	--	--	--	1
SB1	25+29.5	28.7'RT	1	--	--	--	--
SB2	25+4.0	22.7'LT	--	--	1	--	--
SB3	25+31.4	38.7'LT	1	--	--	--	--
SB4	410+05.5	74.0RT	1	--	--	--	--
SB5	410+05.6	12.0'RT	--	1	--	--	--
SB6	409+89.0	12.0'LT	1	--	--	--	--
SB7	409+89.0	68.0'LT	--	--	--	1	--
SB8	26+96.9	59.1'LT	1	--	--	--	--
SB9	27+17.8	40.2'LT	1	--	--	--	--
SB10	27+27.0	39.6'RT	--	--	1	--	--
SB11	27+17.6	46.5'RT	1	--	--	--	--
SB12	411+37.6	77.8'LT	1	--	--	--	--
SB13	411+37.6	12.0'LT	--	1	--	--	--
SB14	411+56.0	12.0'RT	1	--	--	--	--
SB15	411+48.0	68.0'RT	--	--	--	1	--
SB16	411+38.5	66.0'RT	1	--	--	--	--
TOTALS			10	2	2	2	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

		655.0230	655.0240*
		CABLE TRAFFIC SIGNAL	CABLE TRAFFIC SIGNAL
		5-14 AWG	7-14 AWG
FROM	TO	LF	LF
SB1	HEAD 15	19	--
SB1	HEAD 19	19	--
SB1	HEAD 27	15	--
SB2	HEAD 20	42	--
SB3	HEAD 28	15	--
SB4	HEAD 1	19	--
SB4	HEAD 13	--	22
SB4	HEAD 21	15	--
SB5	HEAD 14	--	22
SB6	HEAD 5	--	22
SB7	HEAD 9	69	--
SB7	HEAD 10	57	--
SB7	HEAD 11	45	--
SB8	HEAD 22	15	--
SB9	HEAD 18	19	--
SB9	HEAD 23	15	--
SB10	HEAD 16	47	--
SB10	HEAD 17	19	--
SB11	HEAD 24	15	--
SB12	HEAD 6	--	22
SB12	HEAD 8	19	--
SB12	HEAD 25	15	--
SB13	HEAD 7	--	22
SB14	HEAD 12	--	22
SB15	HEAD 2	69	--
SB15	HEAD 3	57	--
SB15	HEAD 4	45	--
SB16	HEAD 26	15	--
TOTAL		665	132

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CTH KR & 100TH STREET / FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

		655.0240*	655.0260	655.0270
		CABLE TRAFFIC SIGNAL	CABLE TRAFFIC SIGNAL	CABLE TRAFFIC SIGNAL
		7-14 AWG	12-14 AWG	15-14 AWG
FROM	TO	LF	LF	LF
CB1	SB1	--	50	--
CB1	SB2	137	--	--
CB1	SB3	158	--	--
CB1	SB4	--	--	255
CB1	SB5	332	--	--
CB1	SB6	355	--	--
CB1	SB7	424	--	--
CB1	SB8	445	--	--
CB1	SB9	--	527	--
CB1	SB10	414	--	--
CB1	SB11	425	--	--
CB1	SB12	--	--	322
CB1	SB13	262	--	--
CB1	SB14	187	--	--
CB1	SB15	127	--	--
CB1	SB16	137	--	--
TOTALS		3403	577	577

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CTH KR & 100TH STREET / FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

LIGHTING WIRE

		655.0320 CABLE TYPE UF 2-10 AWG GROUNDED	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG
FROM	TO	LF	LF
CB1	SB2	137	--
SB2	LUMIN (1)	--	144
SB2	SB5	231	--
SB5	LUMIN (2)	--	234
CB1	SB13	262	--
SB16	LUMIN (2)	--	234
SB13	SB10	284	--
SB10	LUMIN (1)	--	144
TOTALS		914	756

ELECTRICAL WIRE TRAFFIC SIGNALS

		655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG
FROM	TO	LF
CB1	SB1	50
SB1	SB2	125
SB2	SB3	57
SB3	SB4	175
SB4	SB5	147
SB5	SB6	95
SB6	SB7	107
SB7	SB8	61
SB8	SB9	174
SB9	SB10	161
SB10	SB11	59
SB11	SB12	203
SB12	SB13	192
SB13	SB14	137
SB14	SB15	138
SB15	SB16	88
SB16	CB1	137
PB1	CB1	39
PB2	CB1	69
PB3	SB2	26
PB4	SB4	43
PB5	SB5	44
PB6	SB6	27
PB8	SB7	28
PB9	SB9	41
PB10	SB10	84
PB11	SB10	32
PB12	SB12	58
PB13	SB13	74
PB14	SB13	44
PB15	SB14	39
PB16	SB15	47
PB17	CB1	33
TOTAL		2834

3

TRAFFIC SIGNAL EVP DETECTOR CABLE

		655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE
FROM	TO	LF	LF
CB1	SB2 (HEAD C)	197	197
CB1	SB7 (HEAD A)	499	499
CB1	SB10 (HEAD D)	474	474
CB1	SB15 (HEAD B)	202	202
TOTALS		1372	1372

ELECTRICAL SERVICE METER BREAKER PEDESTAL
CTH KR & 100TH STREET / FOXCONN DRIVEWAY

		656.0200.301 ELECTRICAL SERVICE METER BREAKER PEDESTAL
BASE NO.		LS
CB1		1
TOTAL		1

***FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CTH KR & 100TH STREET / FOXCONN
DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS
OTHERWISE NOTED

3

CAST BASES, POLES, STANDARDS, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255* TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH
SB1	1	--	--	1	--	--	--
SB2	--	--	--	--	--	--	--
SB3	1	--	--	--	--	1	--
SB4	1	--	--	--	1	--	--
SB5	--	1	1	--	--	--	2
SB6	1	--	--	--	1	--	--
SB7	--	--	--	--	--	--	--
SB8	1	--	--	--	--	1	--
SB9	1	--	--	1	--	--	--
SB10	--	--	--	--	--	--	--
SB11	1	--	--	--	--	1	--
SB12	1	--	--	--	1	--	--
SB13	--	1	1	--	--	--	2
SB14	1	--	--	--	1	--	--
SB15	--	--	--	--	--	--	--
SB16	1	--	--	--	--	1	--
TOTALS	10	2	2	2	4	4	4

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CTH KR & 100TH STREET / FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES (CONT.)

SIGNAL BASE NO.	657.1350 INSTALL POLES TYPE 10 EACH	657.1355 INSTALL POLES TYPE 12 EACH	657.1520 INSTALL MONOTUBE ARMS 20-FT EACH	657.1525 INSTALL MONOTUBE ARMS 25-FT EACH	657.1545 INSTALL MONOTUBE ARMS 45-FT EACH	657.1815 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	--	--	--	--	--	--	1	--
SB2	1	--	1	--	--	1	--	1
SB3	--	--	--	--	--	--	1	--
SB4	--	--	--	--	--	--	1	--
SB5	--	--	--	--	--	--	1	2
SB6	--	--	--	--	--	--	--	--
SB7	--	1	--	--	1	--	--	--
SB8	--	--	--	--	--	--	1	--
SB9	--	--	--	--	--	--	1	--
SB10	1	--	--	1	--	1	--	1
SB11	--	--	--	--	--	--	1	--
SB12	--	--	--	--	--	--	1	--
SB13	--	--	--	--	--	--	1	2
SB14	--	--	--	--	--	--	--	--
SB15	--	1	--	--	1	--	--	--
SB16	--	--	--	--	--	--	1	--
TOTALS	2	2	1	1	2	2	10	6

TRAFFIC SIGNAL AND PEDESTRIAN FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173	658.0174	658.0416
		TRAFFIC SIGNAL FACE 3S 12-INCH EACH	TRAFFIC SIGNAL FACE 4S 12-INCH EACH	PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB4	1	--	--
2	SB15	1	--	--
3	SB15	1	--	--
4	SB15	1	--	--
5	SB6	--	1	--
6	SB12	--	1	--
7	SB13		1	--
8	SB12	1	--	--
9	SB7	1	--	--
10	SB7	1	--	--
11	SB7	1	--	--
12	SB14	--	1	--
13	SB4	--	1	--
14	SB5	--	1	--
15	SB1	1	--	--
16	SB10	1	--	--
17	SB10	1	--	--
18	SB9	1	--	--
19	SB1	1	--	--
20	SB2	1	--	--
21	SB4	--	--	1
22	SB8	--	--	1
23	SB9	--	--	1
24	SB11	--	--	1
25	SB12	--	--	1
26	SB16	--	--	1
27	SB1	--	--	1
28	SB3	--	--	1
TOTALS		14	6	8

CTH KR & 100TH STREET / FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

SIGNAL MOUNTING HARDWARE

CTH KR & 100TH STREET / FOXCONN DRIVEWAY

LOCATION	658.5069.301
	TRAFFIC SIGNAL MOUNTING HARDWARE LS
CTH KR & 100TH STREET / FOXCONN DRIVEWAY	1
TOTAL	1

3

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
CTH KR & 100TH STREET / FOXCONN DRIVEWAY

SPV.0105.301 TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET	
LOCATION	LS
CB1	1
TOTAL	1

CTH KR & 100TH STREET / FOXCONN
DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS
OTHERWISE NOTED

TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE
PREEMPTION (EVP) DETECTOR HEADS WITH CONFIRMATION BEACONS
CTH KR & 100TH STREET / FOXCONN DRIVEWAY

SPV.0105.303 TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS WITH CONFIRMATION BEACONS	
LOCATION	LS
CTH KR & 100TH STREET / FOXCONN DRIVEWAY	1
TOTAL	1

3

TRANSPORT AND INSTALL STATE FURNISHED RADAR
DETECTION SYSTEM
CTH KR & 100TH STREET / FOXCONN DRIVEWAY

SPV.0105.302 TRANSPORT AND INSTALL STATE FURNISHED RADAR DETECTION SYSTEM	
LOCATION	LS
CTH KR & 100TH STREET / FOXCONN DRIVEWAY	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
CTH KR & 100TH STREET / FOXCONN DRIVEWAY

SPV.0105.304 TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS	
LOCATION	LS
CTH KR & 100TH STREET / FOXCONN DRIVEWAY	1
TOTAL	1

3

COMMUNICATION
ALL ITEMS ARE CATEGORY 3000 UNLESS
OTHERWISE NOTED

3

CONDUIT

		652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF
FROM	TO	
CB1 (S51-1471)	CV411	21
TOTALS		21

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

		655.0510 ELECTRICAL WIRE TRAFFIC SIGNALS 12 AWG LF
FROM	TO	
CB1 (S51-1471)	CV411	44
TOTAL		44



ITS COMMUNICATION VAULTS

					673.0105	673.0200
					COMMUNICATION	TRACER WIRE
CATEGORY	ROADWAY	STATION	OFFSET	ITEM ID	VAULT TYPE 1	MARKER
					EACH	POSTS
					EACH	EACH
4000	CTH KR	388+99	73' RT	CV389	1	1
		402+02	73' RT	CV402	1	1
		409+77	74' RT	CV410	1	1
		411+15	74' RT	CV411	1	1
		424+01	74' RT	CV424	1	1
		436+99	73' RT	CV437	1	1
		446+97	73' RT	CV447	1	1
		PROJECT 3763-00-73 TOTAL			TOTALS:	7

ITS CONDUIT

				671.0122	655.0510
				CONDUIT	ELECTRICAL
				HDPE	WIRE TRAFFIC
				2-DUCT	SIGNALS
				2-INCH	12 AWG
CATEGORY	ROADWAY	ITEM ID	LINEAR DISTANCE	LF	LF
4000	CTH KR	CV376 - CV389	600	600	609
		CV389 - CV402	1305	1,305	1,314
		CV402 - CV410	775	775	784
		CV410 - CV411	140	140	149
		CV411 - CV424	1290	1,290	1,299
		CV424 - CV437	1300	1,300	1,309
		CV437 - CV447	1000	1,000	1,009
		PROJECT 3763-00-73 TOTAL			TOTALS

MISCELLANEOUS ITS ITEMS

670.0200.002 ITS DOCUMENTATION		
CATEGORY	ITEM I.D.	LS
4000	MISCELLANEOUS	1
PROJECT 3763-00-73 TOTAL		1



LIGHTING AND MISCELLANEOUS - FINAL

			653.0135* PULL BOXES STEEL 24X36- INCH	654.0105* CONCRETE BASES TYPE 5	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE (NOTE 1) EACH
CATEGORY	DESCRIPTION	LOCATION	EACH	EACH	EACH
5000	BASE KW-9	STA. 384+09.50, 0.0' LT	--	1	1
	BASE KW-10	STA. 389+21.65, 0.0' LT	--	1	1
	BASE KW-11	STA. 388+29.88, 0.0' LT	--	1	1
	BASE KW-12	STA. 390+46.09, 0.0' LT	--	1	1
	BASE KW-13	STA. 392+71.39, 0.0' LT	--	1	1
	BASE KW-14	STA. 394+85.63, 0.0' LT	--	1	1
	BASE KW-15	STA. 397+09.15, 0.0' LT	--	1	1
	BASE KW-16	STA. 399+49.35, 0.0' LT	--	1	1
	BASE KW-17	STA. 401+74.31, 0.0' LT	--	1	1
	BASE KW-18	STA. 404+05.64, 0.0' LT	--	1	1
	BASE KW-19	STA. 406+05.64, 6.37' LT	--	1	1
	BASE KW-20	STA. 408+05.68, 12.23' LT	--	1	1
	BASE KH-1	STA. 413+37.68, 11.84' RT	--	1	1
	BASE KH-2	STA. 415+37.64, 6.14' RT	--	1	1
	BASE KH-3	STA. 417+37.56, 0.0' LT	--	1	1
	BASE KH-4	STA. 419+75.98, 0.0' LT	--	1	1
	BASE KH-5	STA. 421+95.94, 0.0' LT	--	1	1
	BASE KH-6	STA. 424+21.95, 0.0' LT	--	1	1
	BASE KH-7	STA. 426+45.91, 0.0' LT	--	1	1
	BASE KH-8	STA. 428+65.54, 0.0' LT	--	1	1
	BASE KH-9	STA. 430+84.91, 7.44' LT	--	1	1
	BASE KH-10	STA. 433+03.49, 12.63' LT	--	1	1
	BASE KH-11	STA. 435+13.15, 13.00' LT	--	1	1
	PB-KH1	STA. 436+62.07, 8.18' LT	1	--	--
	BASE KH-12	STA. 437+41.16, 0.0' LT	--	1	1
	BASE KH-13	STA. 439+68.92, 0.0' LT	--	1	1
	BASE KH-14	STA. 441+96.97, 0.0' LT	--	1	1
	BASE KH-15	STA. 443+86.97, 6.16' LT	--	1	1
	BASE KH-16	STA. 445+86.97, 12.00' LT	--	1	1
5000	TOTALS		1	28	28

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTE

1. 1/8" ALUMINUM OR STEEL PLATE TO COVER THE TOP OPENING OF THE TRANSFORMER BASE.
COVER TO BE BOLTED DOWN. COVER TO PREVENT WATER FROM ENTERING TRANSFORMER BASE.
COST OF COVER IS INCIDENTAL TO THE COST OF THE TRANSFORMER BASE.

LIGHTING - WIRE AND CONDUIT - FINAL

			652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 -INCH	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 -INCH
CATEGORY	FROM	TO	LF	LF
5000	STUB	BASE KW-9	123	--
	BASE KW-9	BASE KW-10	232	--
	BASE KW-10	BASE KW-11	228	--
	BASE KW-11	BASE KW-12	239	--
	BASE KW-12	BASE KW-13	247	--
	BASE KW-13	BASE KW-14	237	--
	BASE KW-14	BASE KW-15	249	--
	BASE KW-15	BASE KW-16	263	--
	BASE KW-16	BASE KW-17	248	--
	BASE KW-17	BASE KW-18	251	--
	BASE KW-18	BASE KW-19	222	--
	BASE KW-19	BASE KW-20	211	--
	BASE KH-1	BASE KH-2	211	--
	BASE KH-2	BASE KH-3	217	--
	BASE KH-3	BASE KH-4	261	--
	BASE KH-4	BASE KH-5	243	--
	BASE KH-5	BASE KH-6	248	--
	BASE KH-6	BASE KH-7	246	--
	BASE KH-7	BASE KH-8	241	--
	BASE KH-8	BASE KH-9	241	--
	BASE KH-9	BASE KH-10	224	--
	BASE KH-10	BASE KH-11	215	--
	BASE KH-11	PB-KH1	--	155
	PB-KH1	BASE KH-12	108	--
	BASE KH-12	BASE KH-13	248	--
	BASE KH-13	BASE KH-14	250	--
	BASE KH-14	BASE KH-15	210	--
	BASE KH-15	BASE KH-16	210	--
	BASE KH-16	STUB	119	--
5000	TOTALS		6242	155

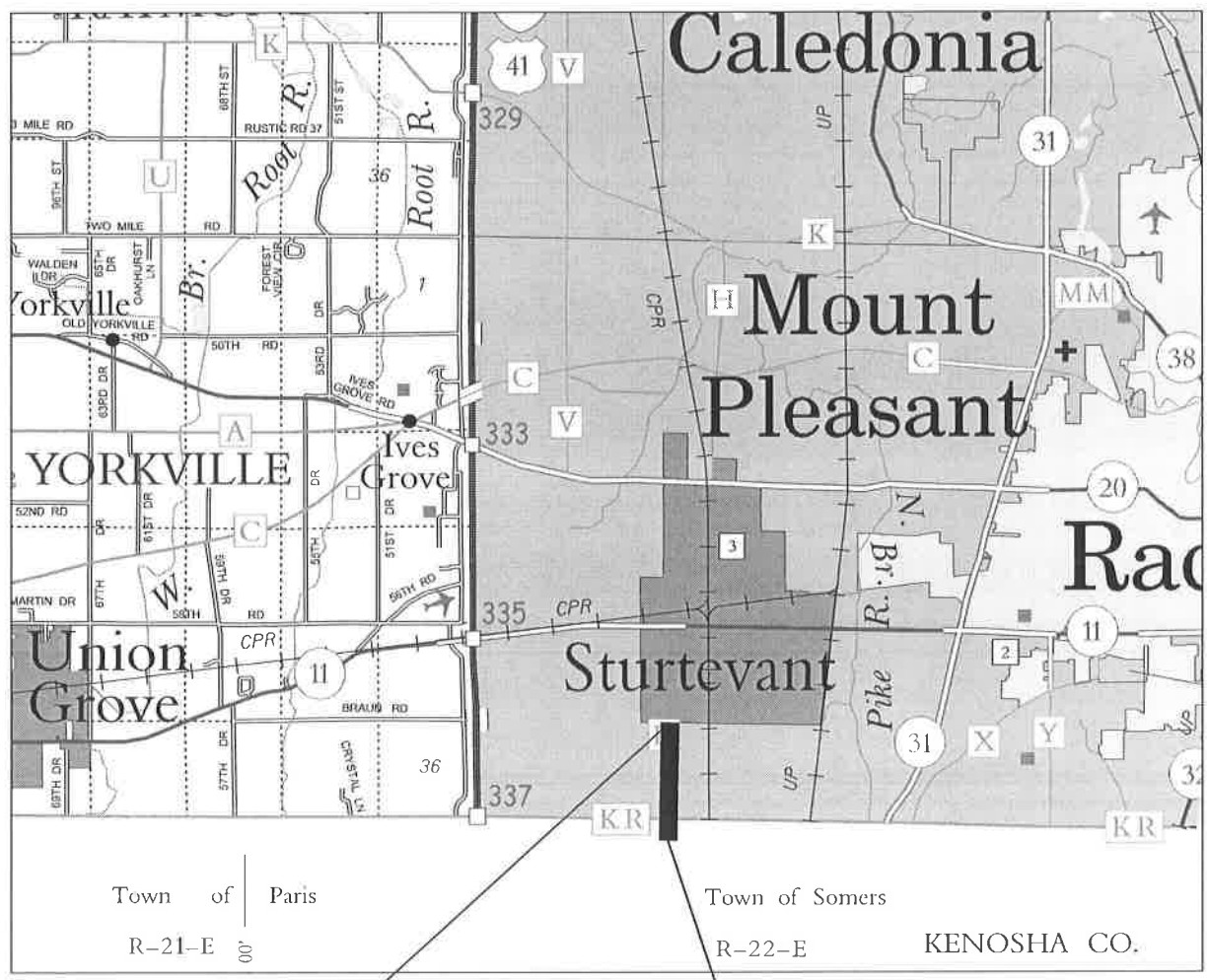
* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

7-26-2018

CONVENTIONAL ABBREVIATIONS			
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	PUBLIC ROAD ACCESS POINT	PRAP
ALUMINUM	ALUM	RECORDED AS	(100°)
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT	RDE
CERTIFIED SURVEY MAP	CSM	EASEMENT	
CONCRETE	CONC	RIGHT	RT
COUNTY	CO	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
DISTANCE	DIST	SEPTIC VENT	SEPV
CORNER	COR	SQUARE FEET	SF
DOCUMENT NUMBER	DOC	STATE TRUNK HIGHWAY	STH
EASEMENT	EASE	STATION	STA
EXISTING	EX	TELEPHONE PEDESTAL	TP
GAS VALVE	GV	TEMPORARY LIMITED	TLE
GRID NORTH	GN	EASEMENT	
HIGHWAY EASEMENT	HE	TRANSPORTATION PROJECT	TPP
IDENTIFICATION	ID	PLAT	
LAND CONTRACT	LC	UNITED STATES HIGHWAY	USH
LEFT	LT	VOLUME	V
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED	PLE		
EASEMENT			
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA			
LONG CHORD	LCH		
LONG CHORD BEARING	LCB		
RADIUS	R		
DEGREE OF CURVE	D		
CENTRAL ANGLE	Δ/DELTA		
LENGTH OF CURVE	L		
TANGENT	T		
DIRECTION AHEAD	DA		
DIRECTION BACK	DB		

CONVENTIONAL SYMBOLS			
SECTION LINE	---	SECTION CORNER SYMBOL	●
QUARTER LINE	---	NON-MONUMENTED R/W POINT	○
SIXTEENTH LINE	---	FOUND IRON PIN (1-INCH UNLESS NOTED)	⊙
NEW REFERENCE LINE	---	GEODETIC SURVEY MONUMENT	⊙
NEW R/W LINE	---	SIXTEENTH CORNER MONUMENT	⊙
EXISTING R/W OR HE LINE	---	SIGN	⊙
PROPERTY LINE	---	OFF-PREMISE SIGN	⊙
LOT, TIE & OTHER MINOR LINES	---	COMPENSABLE	⊙
SLOPE INTERCEPT	---	NON-COMPENSABLE	⊙
CORPORATE LIMITS	---	ELECTRIC POLE	⊙
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)	---	TELEPHONE POLE	⊙
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)	---	PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	⊙
TEMPORARY LIMITED EASEMENT AREA	---	ACCESS RESTRICTED BY ACQUISITION	---
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)	---	NO ACCESS (BY STATUTORY AUTHORITY)	---
TRANSMISSION STRUCTURES	---	ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)	---
BUILDING TO BE REMOVED	---	NO ACCESS (NEW HIGHWAY)	---
BRIDGE	---	PARCEL NUMBER (25)	---
		UTILITY NUMBER (40)	---
		PARALLEL OFFSETS	---
		CONVENTIONAL UTILITY SYMBOLS	---
		WATER	---
		GAS	---
		TELEPHONE	---
		OVERHEAD	---
		TRANSMISSION LINES	---
		ELECTRIC	---
		CABLE TELEVISION	---
		FIBER OPTIC	---
		SANITARY SEWER	---
		STORM SEWER	---



BEGIN RELOCATION ORDER
1262.58 FEET SOUTH AND
18.53 FEET EAST OF THE
NORTHWEST CORNER OF
SEC. 5 T2N R22E
STA 790+50.38

END RELOCATION ORDER
0 FEET NORTH AND 0
FEET EAST OF THE
SOUTHEAST CORNER OF
SEC. 29 T3N R22E
STA 856+38.94

LAYOUT
SCALE 0 0.50 MI.

R/W PROJECT NUMBER	RC092617	SHEET NUMBER	4.00	TOTAL SHEETS	7
CONSTRUCTION PROJECT NUMBER	3760-00-70				
PLAT OF RIGHT OF WAY REQUIRED FOR					
CTH H					
CTH KR TO BRAUN ROAD					
CTH H					
KENOSHA COUNTY & RACINE COUNTY					

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH RIGHT OF WAY PLAT FOR PROJECT RC092617.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83(97), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

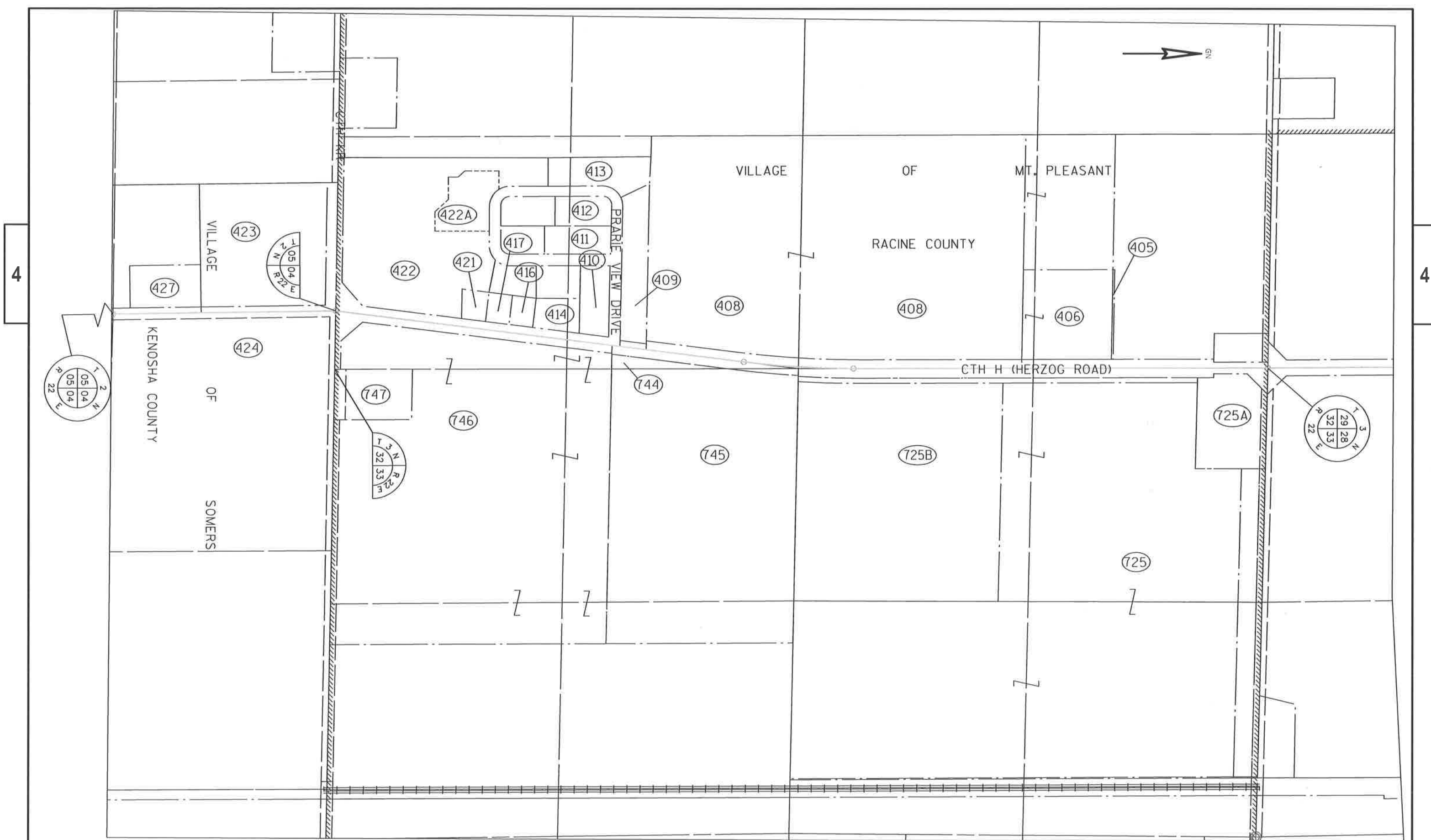
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG CTH H HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT -NONE-

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: RECORD DEEDS, RACINE COUNTY PROJ. 61-72H.



REVISION DATE 12/26/2017 2/13/2018 7/12/2018	DATE 11/16/2017	SCALE, FEET 0 250 500	HWY: CTH H	STATE R/W PROJECT NUMBER RC092617	PLAT SHEET 4. 01
	GRID FACTOR N/A		COUNTY: RACINE & KENOSHA	CONSTRUCTION PROJECT NUMBER 3760-00-70	PS&E SHEET E

4

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA BEING ACQUIRED.
*INDICATES COMPUTED AREA

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	PARCEL AREA ACRES	T.L.E. AREA REQUIRED ACRES	P.L.E. AREA REQUIRED ACRES	R/W AREA REQUIRED NEW ACRES	R/W AREA REQUIRED EXISTING ACRES	R/W AREA REQUIRED TOTAL ACRES	PARCEL NUMBER
405***	4.05	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	0.117	0.006	0.000	0.008	0.000	0.008	405
406***	4.05	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	5.970	0.293	0.000	0.398	0.000	0.398	406
408***	4.05	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	61.317*	1.230	0.000	1.664	0.000	1.664	408
409***	4.04	VILLAGE OF MOUNT PLEASANT	FEE	3.094	0.000	0.000	2.979	0.115	3.094	409
410***	4.04	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	1.524	0.293	0.000	0.151	0.000	0.151	410
411***	4.04	VILLAGE OF MOUNT PLEASANT	AR, TLE	1.383	0.100	0.000	0.000	0.000	0.000	411
412	4.04	ADAM J HALL AND CHRISTY M HALL	AR, TLE	1.229	0.097	0.000	0.000	0.000	0.000	412
413***	4.04	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	2.30	0.098	0.000	0.968	0.000	0.968	413
414***	4.04	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	1.080	0.150	0.000	0.237	0.000	0.237	414
416***	4.04	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	0.522	0.400	0.000	0.122	0.000	0.122	416
417***	4.04	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	0.522	0.400	0.000	0.122	0.000	0.122	417
421***	4.04	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	0.7200	0.436	0.000	0.124	0.000	0.124	421
422***	4.04	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	13.062*	1.199	0.000	3.354	0.000	3.354	422
422A**	4.04	JOHN BAIETTO		2.196*	0.000	0.000	0.000	0.000	0.000	422A
423***	4.03	GITZLAFF PROPERTIES LLC	FEE, TLE	11.430	0.345	0.000	0.576	0.000	0.576	423
424***	4.03	GITZLAFF PROPERTIES LLC	FEE, PLE, TLE	151.500	2.740	0.732	1.892	2.787	4.679	424
427***	4.03	REVERE PROPERTIES	FEE, TLE	2.21	0.035	0.000	0.111	0.000	0.111	427
725***	4.05 & 4.06	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	94.212	1.628	0.000	4.847	0.000	6.174	725
725A**	4.06	THOMAS W FLIESS	FEE	4.736	0.000	0.000	4.402	0.000	4.402	725A
725B***	4.05	ATC, LLC	FEE, AR, TLE	33.138	0.669	0.000	0.780	0.000	0.780	725B
744***	4.04	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	0.638	0.169	0.000	0.413	0.000	0.413	744
745***	4.05	VILLAGE OF MOUNT PLEASANT	FEE, AR, TLE	37.988	0.445	0.000	0.424	0.000	0.424	745
746***	4.04	VILLAGE OF MOUNT PLEASANT	FEE, PLE, AR, TLE	60.017*	2.071	1.640	6.804	0.968	7.772	746
747	4.04	MICHAEL R & MARY JUDY SCHMIDT	FEE, AR, TLE	2.400*	0.000	0.000	2.477	0.430	2.907	747

REVISED: 12/26/17, 2/13/2018**, 7/12/2018***	DATE: 11/08/2017	HWY: CTH H	R/W PROJECT NO. RC092617	PLAT SHEET NO: 4.02
		COUNTY: KENOSHA & RACINE	CONSTRUCTION PROJECT NO. 3760-00-70	E





R/W PROJECT NUMBER RC112117	SHEET NUMBER	TOTAL SHEETS
CONSTRUCTION PROJECT NUMBER 3763-00-73	4.00	7
PLAT OF RIGHT OF WAY REQUIRED FOR CTH KR I94 EAST FRONTAGE ROAD TO CTH H CTH KR KENOSHA COUNTY & RACINE COUNTY		

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH RIGHT OF WAY PLAT FOR PROJECT RC112117.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83 (97), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS
AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS
PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES,
EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN
ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION,
AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG CTH KR HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT 1035-03-20-4.03 & 4.04.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING
POINTS OF REFERENCE: RECORD DEEDS, CSMs.

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	PUBLIC ROAD ACCESS POINT	PRAP
ALUMINUM	ALUM	RECORDED AS	100'
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLACK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT	ROE
CERTIFIED SURVEY MAP	CSM	EASEMENT	
CONCRETE	CONC	RIGHT	RT
COUNTY	CO	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
DISTANCE	DIST	SEPTIC VENT	SEPV
CORNER	COR	SQUARE FEET	SF
DOCUMENT NUMBER	DOC	STATE TRUNK HIGHWAY	STH
EASEMENT	EASE	STATION	STA
EXISTING	EX	TELEPHONE PEDESTAL	TP
GAS VALVE	GV	TEMPORARY LIMITED	TLE
GRID NORTH	GN	EASEMENT	
HIGHWAY EASEMENT	HE	TRANSPORTATION PROJECT	TPP
IDENTIFICATION	ID	PLAT	
LAND CONTRACT	LC	UNITED STATES HIGHWAY	USH
LEFT	LT	VOLUME	V
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS	<u>CURVE DATA</u>	
NUMBER	NO	LONG CHORD	LCH
OUTLOT	OL	LONG CHORD BEARING	LCB
PAGE	P	RADIUS	R
POINT OF TANGENCY	PT	DEGREE OF CURVE	D/C
PERMANENT LIMITED	PLE	CENTRAL ANGLE	Δ
EASEMENT		LENGTH OF CURVE	L
POINT OF BEGINNING	POB	TANGENT	T
POINT OF CURVATURE	PCC	DIRECTION AHEAD	DA
POINT OF COMPOUND CURVE	PC	DIRECTION BACK	DB

CURVE DATA

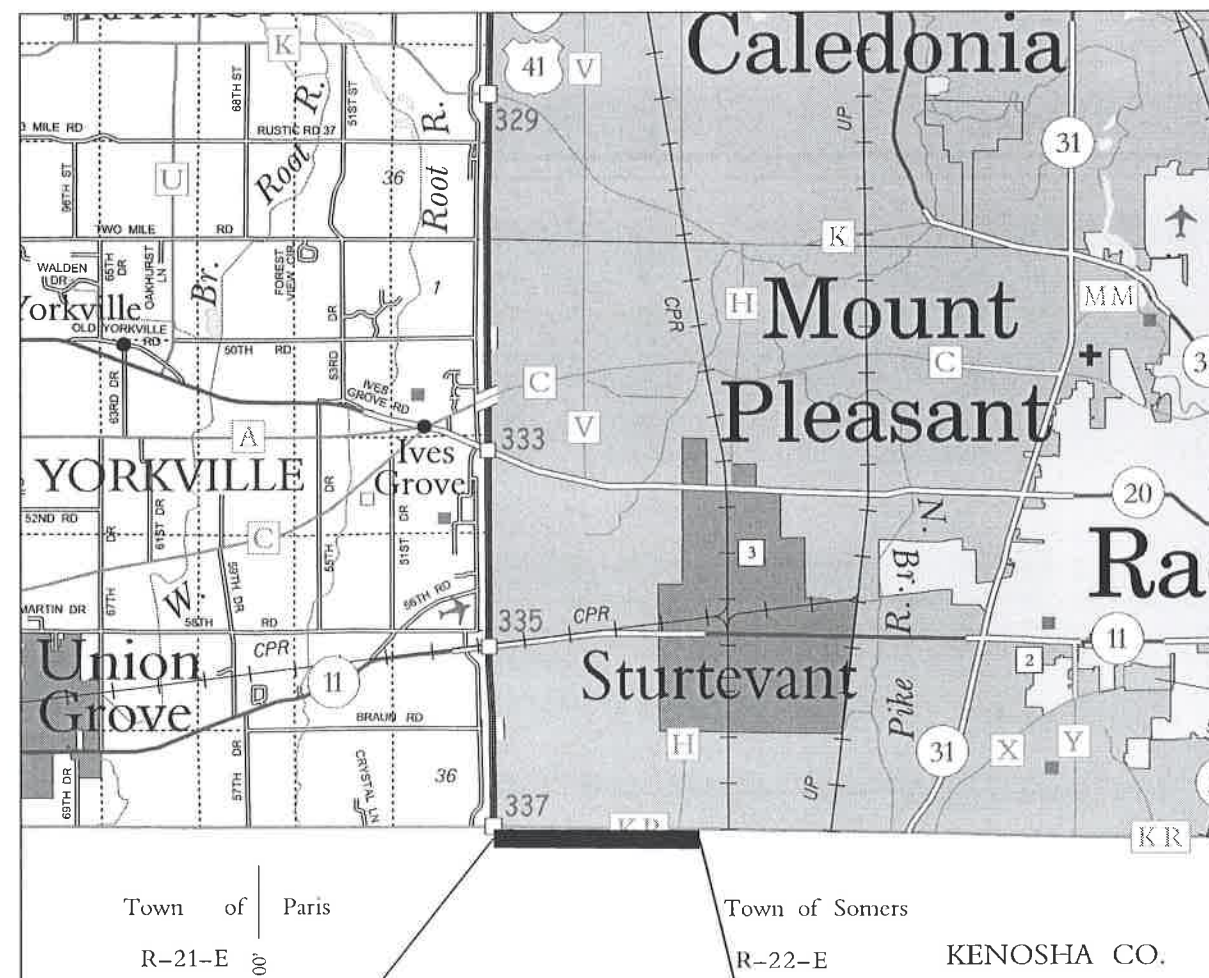
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ , DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL SYMBOLS

SECTION LINE		SECTION CORNER SYMBOL		R/W MONUMENT (TO BE SET)	
QUARTER LINE		SECTION CORNER MONUMENT		NON-MONUMENTED R/W POINT	
SIXTEENTH LINE		GEODETIC SURVEY MONUMENT		FOUND IRON PIN (IP 1-INCH UNLESS NOTED)	
NEW REFERENCE LINE		SIXTEENTH CORNER MONUMENT			
NEW R/W LINE		SIGN		OFF-PREMISE SIGN	
EXISTING R/W OR HE LINE					
PROPERTY LINE					
LOT, TIE & OTHER MINOR LINES					
SLOPE INTERCEPT					
CORPORATE LIMITS		ELECTRIC POLE		COMPENSABLE	NON-COMPENSABLE
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)		TELEPHONE POLE			
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)		PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)			
TEMPORARY LIMITED EASEMENT AREA		ACCESS RESTRICTED BY ACQUISITION			
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)		NO ACCESS (BY STATUTORY AUTHORITY)			
TRANSMISSION STRUCTURES		ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)			
BUILDING		NO ACCESS (NEW HIGHWAY)			
BRIDGE		TO BE REMOVED			
		PARCEL NUMBER	(25)	UTILITY NUMBER	(40)
		PARALLEL OFFSETS			

CONVENTIONAL UTILITY SYMBOLS

_____	WATER
_____	GAS
_____	TELEPHONE
_____	OVERHEAD
_____	TRANSMISSION LINES
_____	ELECTRIC
_____	CABLE TELEVISION
_____	FIBER OPTIC
_____	SANITARY SEWER
_____	STORM SEWER



BEGIN RELOCATION ORDER
0 FEET SOUTH AND 0
FEET EAST OF THE
NORTHWEST CORNER OF
SEC. 6 T2N R22E
STA 48+80.42

END RELOCATION ORDER
0 FEET NORTH AND 0
FEET EAST OF THE
NORTHEAST CORNER OF
SEC. 5 T2N R22E
STA 150+33.32

LAYOUT

SCALE 0 0.50 MI.

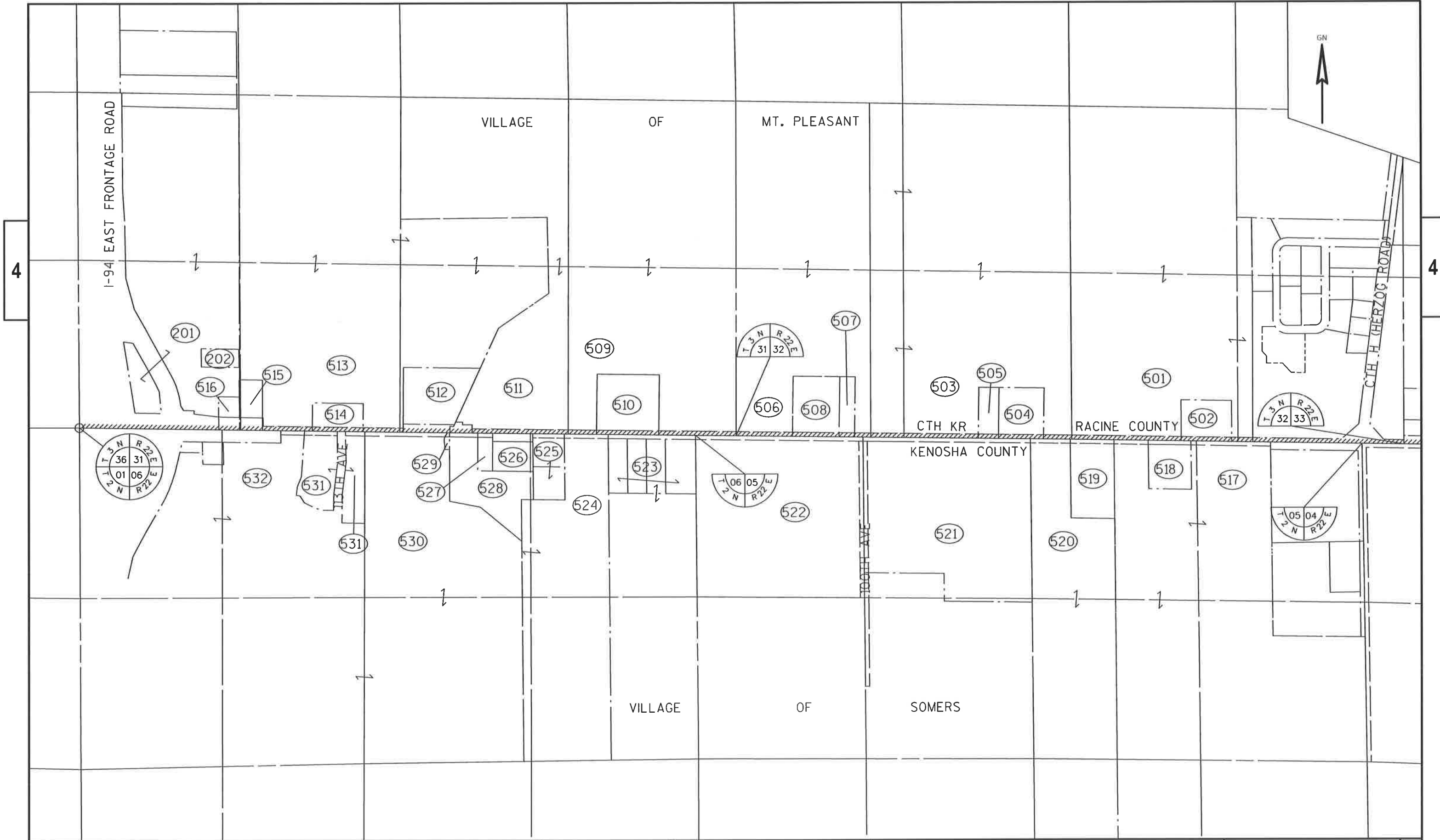
REVISION DATE:
3/22/2018

VILLAGE OF MOUNT PLEASANT

APPROVED BY:

DATE: _____

1



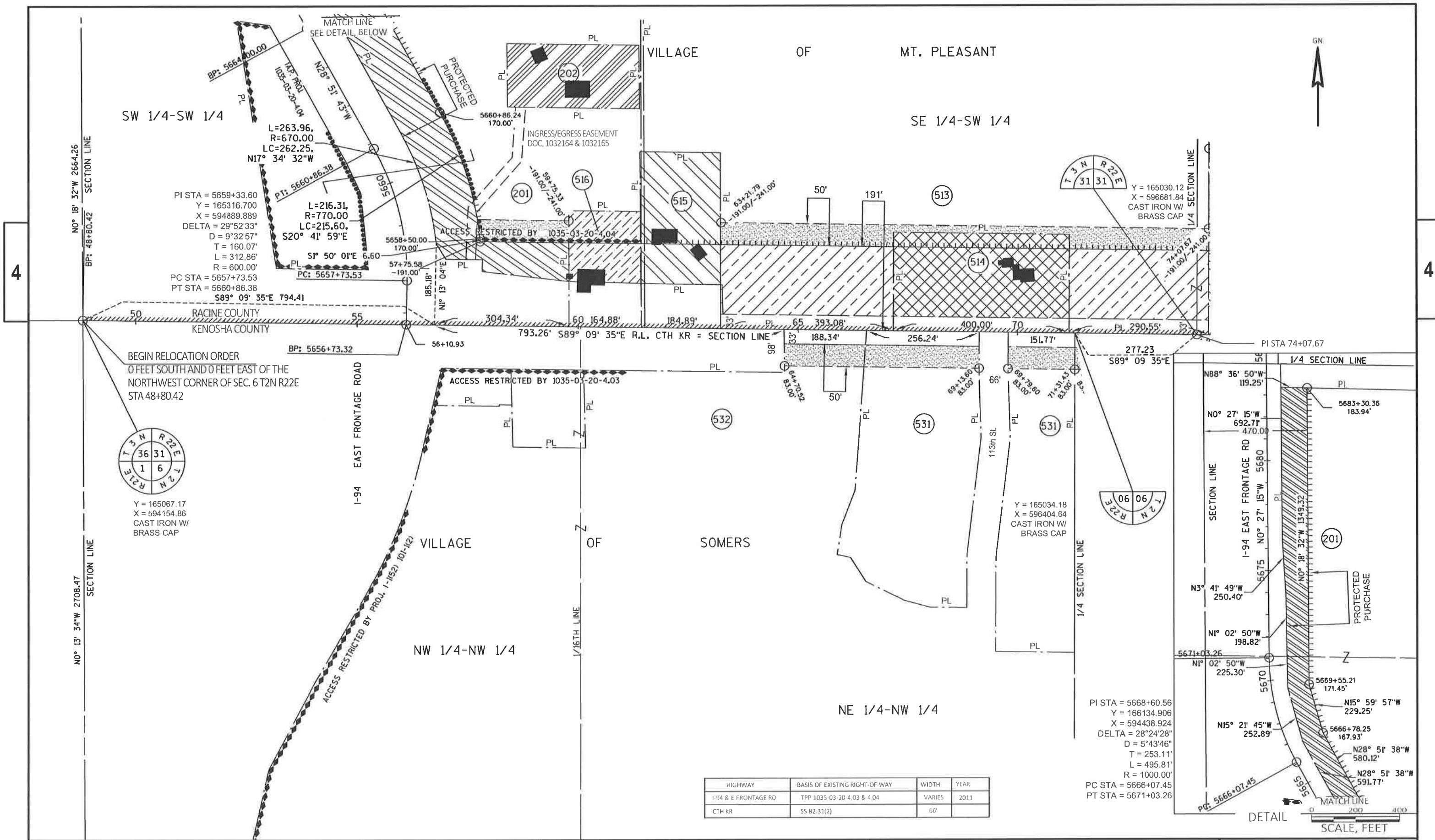
REVISION DATE 3/22/2018	DATE 1/10/2018	SCALE, FEET 0 350 700	HWY: CTH KR		STATE R/W PROJECT NUMBER RC112117		PLAT SHEET 4.01	
			COUNTY: KENOSHA & RACINE		CONSTRUCTION PROJECT NUMBER 3763-00-73		PS&E SHEET	

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA BEING ACQUIRED.
* INDICATES COMPUTED AREA

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	PARCEL AREA ACRES	T.L.E. AREA REQUIRED ACRES	P.L.E. AREA REQUIRED ACRES	R/W AREA REQUIRED NEW ACRES	R/W AREA REQUIRED EXISTING ACRES	R/W AREA REQUIRED TOTAL ACRES	PARCEL NUMBER
201**	4.03	ANNA MARIE SAFRANSKY AND GEORGE L SAFRANSKY	FEE, AR, TLE	45.089**	0.233	0.000	6.455	0.000	6.455	201
202	4.03	GEORGE L SAFRANSKY & CYNTHIA A SAFRANSKY	FEE	1.000*	0.000	0.000	1.000	0.000	1.000	202
501	4.06	ANSELM J HARRISON REVOCABLE TRUST	FEE, AR, TLE	82.006*	1.192	0.000	3.764	0.786	4.550	501
502	4.06	BARBARA L SLIVON AND ROBERT A WINDLE	FEE	2.984*	0.000	0.000	2.681	0.303	2.984	502
503	4.05	BORZYNSKI BROS PROPERTIES	FEE, AR, TLE	89.190*	1.237	0.000	3.909	0.817	4.726	503
503/506A	4.05	BORZYNSKI BROS PROPERTIES	FEE, AR, TLE	9.608*	1.153	0.000	0.932	0.197	1.129	503/506A
504	4.05	WILL B WINCHESTER AND CAROLYN R WINCHESTER	FEE	3.301*	0.000	0.000	3.032	0.269	3.301	504
505	4.05	ROGER A STURYCZ	FEE	1.487*	0.000	0.000	1.366	0.121	1.487	505
506	4.05	BORZYNSKI BROTHERS PROPERTIES	FEE, AR, TLE	52.317*	1.004	0.000	2.088	0.436	2.524	506
507	4.05	BORZYNSKI BROTHERS PROPERTIES	FEE, AR, TLE	1.338*	0.479	0.000	0.443	0.092	0.535	507
508	4.05	EMULAN INC	FEE, AR, TLE	3.759*	1.445	0.000	1.335	0.000	1.335	508
509	4.04	BORZYNSKI BROTHERS PROPERTIES	FEE, AR, TLE	75.560*	0.963	0.000	3.044	0.637	3.681	509
510	4.04	TODD A KREMIS	FEE	5.005*	0.000	0.000	5.005	0.000	5.005	510
511**	4.04	WENDELL L PERKINS AND MARK T O'MEARA	FEE, AR, PLE, TLE	47.303*	0.835	0.120	3.051	0.000	3.051	511
512**	4.04	RICHARD S & CONSTANCE M RICHARDS REVOCABLE TRUST	FEE, AR, PLE, TLE	5.769*	1.638	0.053	1.249	0.000	1.249	512
513	4.03	ROSSI INVESTMENTS LLP	FEE, AR, TLE	140.102*	0.968	0.000	2.565	0.535	3.100	513
514	4.03	DONALD JOHN MERLOCK AND DONNA MERLOCK	FEE	2.060*	0.000	0.000	1.756	0.304	2.060	514
515**	4.03	TODD M BLODGETT	FEE	1.248*	0.000	0.000	1.248	0.000	1.248	515
516	4.03	WISCONSIN DEPARTMENT OF TRANSPORTATION	FEE	0.614*	0.000	0.000	0.614	0.000	0.614	516
517	4.06	ANSELM J HARRISON REVOCABLE TRUST	TLE	129.201*	1.036	0.000	0.000	0.684	0.684	517
518	4.06	DAVID P LEICHT AND ASHLEY M LEICHT	TLE	2.745*	0.234	0.000	0.000	0.000	0.000	518
519	4.06	JEFFERY A MICHAUD AND DEBRA L MICHAUD	TLE	4.997*	0.400	0.000	0.000	0.264	0.264	519
520	4.06	ROSSI INVESTMENTS LLP	TLE	33.578*	0.362	0.000	0.000	0.239	0.239	520
521**	4.05	ARNOLDO ARREDONDO AND KATHLEEN M FIFER	FEE, TLE	36.312*	1.474	0.000	0.045	1.155	1.200	521
522	4.05	ANSELM J HARRISON REVOCABLE TRUST	TLE	38.964*	1.486	0.000	0.000	1.006	1.006	522
523	4.04	DAKDALE ESTATES INC	TLE	7.361*	0.792	0.000	0.000	0.000	0.000	523
524	4.04	ROBERT J WILLKOMM AND SANDRA L WILLKOMM, TRUSTEES	TLE	37.080*	0.399	0.000	0.000	0.263	0.263	524
525	4.04	ROBERT J WILLKOMM AND SANDRA L WILLKOMM, TRUSTEES	TLE	3.006*	0.287	0.000	0.000	0.189	0.189	525
526	4.04	JAMES PETTY JR AND CASSIE K KONKOL	TLE	1.723*	0.132	0.000	0.000	0.000	0.000	526
527	4.04	DANIEL R CLOPE	TLE	0.812*	0.135	0.000	0.000	0.089	0.089	527
528**	4.04	KMAN LLC	TLE	6.644*	0.168	0.013	0.000	0.168/0.176 (PLE)	0.168	528
529	4.04	KENOSHA COUNTY	TLE	0.111*	0.048	0.035	0.000	0.020	0.020	529
530	4.04	DAKDALE ESTATES INC	TLE	66.240*	0.722	0.000	0.000	0.485	0.485	530
531	4.03	ERVIN E KOSEK AND THERESA KOSEK, TRUSTEE	TLE	6.510*	0.473	0.000	0.000	0.310	0.310	531
532	4.03	ERVIN E KOSEK AND THERESA KOSEK, TRUSTEE	TLE	63.156*	0.210	0.000	0.000	0.141	0.141	532

REVISED: 3/22/2018**	DATE: 1/10/2018	HWY: CTH KR	R/W PROJECT NO. RC112117	PLAT SHEET NO: 4.02	
		COUNTY: KENOSHA & RACINE	CONSTRUCTION PROJECT NO. 3763-00-73		E

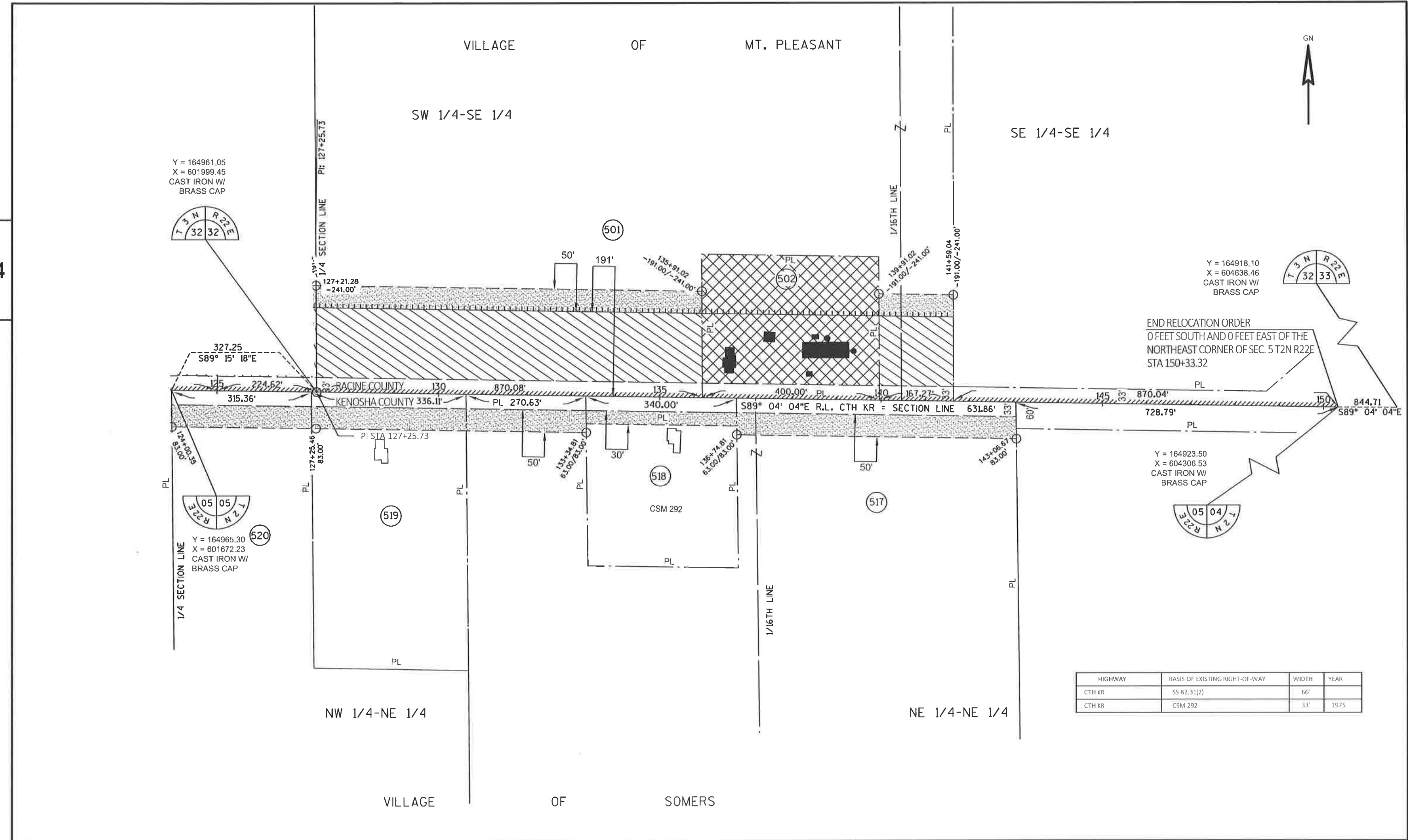


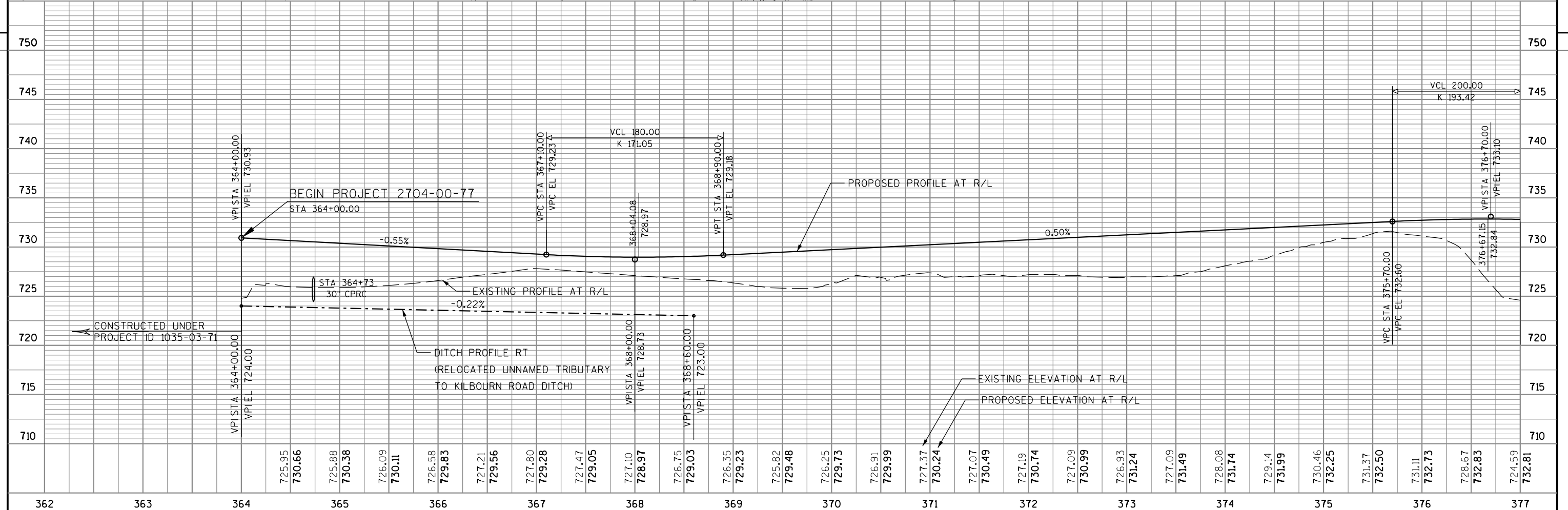
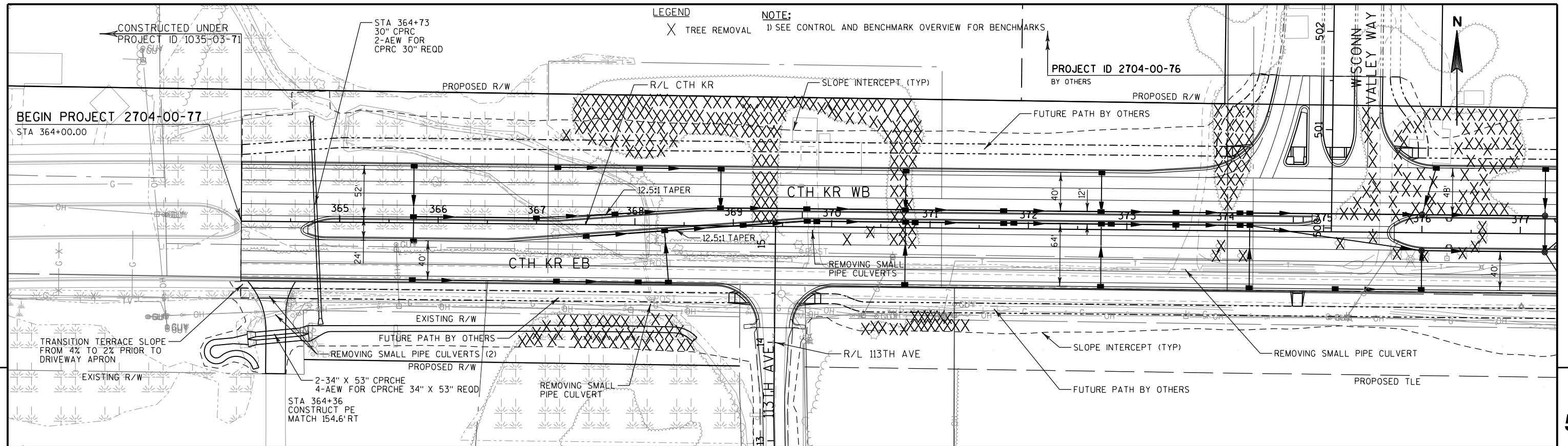
HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94 & E FRONTAGE RD	TPP 1035-03-20-4.03 & 4.04	VARIES	2011
CTH KR	SS R2 31(2)	66'	

REVISION DATE 3/22/2018	DATE 1/10/2018	SCALE, FEET 0 100 200	HWY: CTH KR	STATE R/W PROJECT NUMBER RC112117	PLAT SHEET 4.03
	GRID FACTOR N/A		COUNTY: KENOSHA & RACINE	CONSTRUCTION PROJECT NUMBER 3763-00-73	PS&E SHEET E

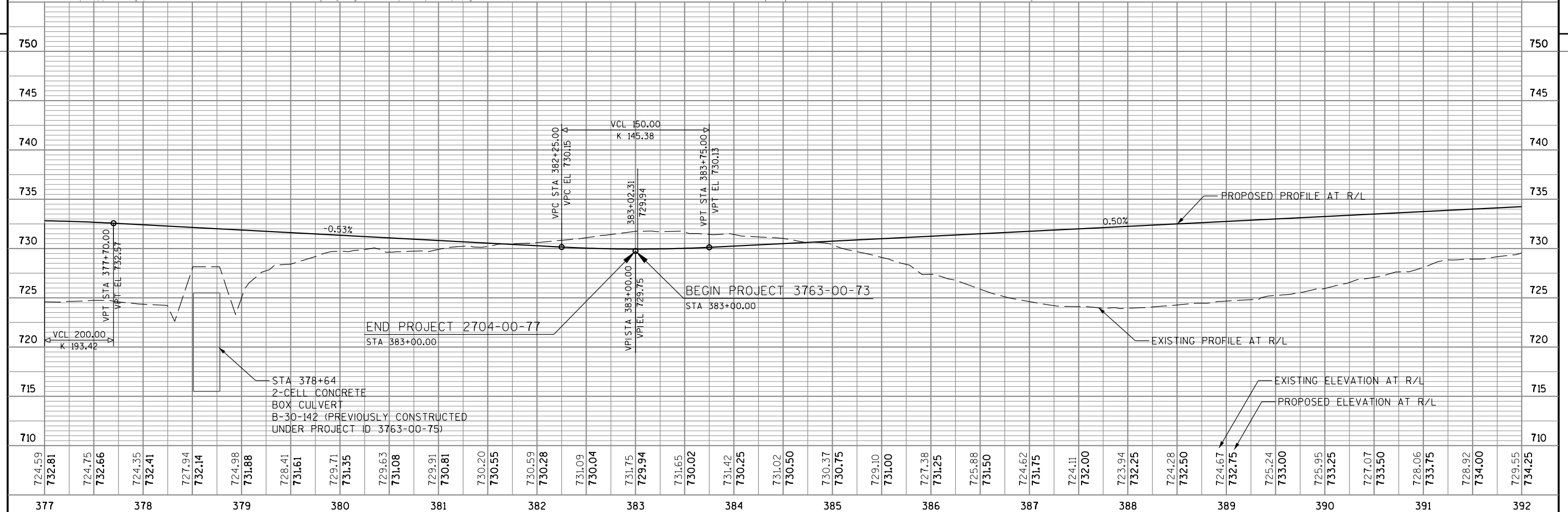
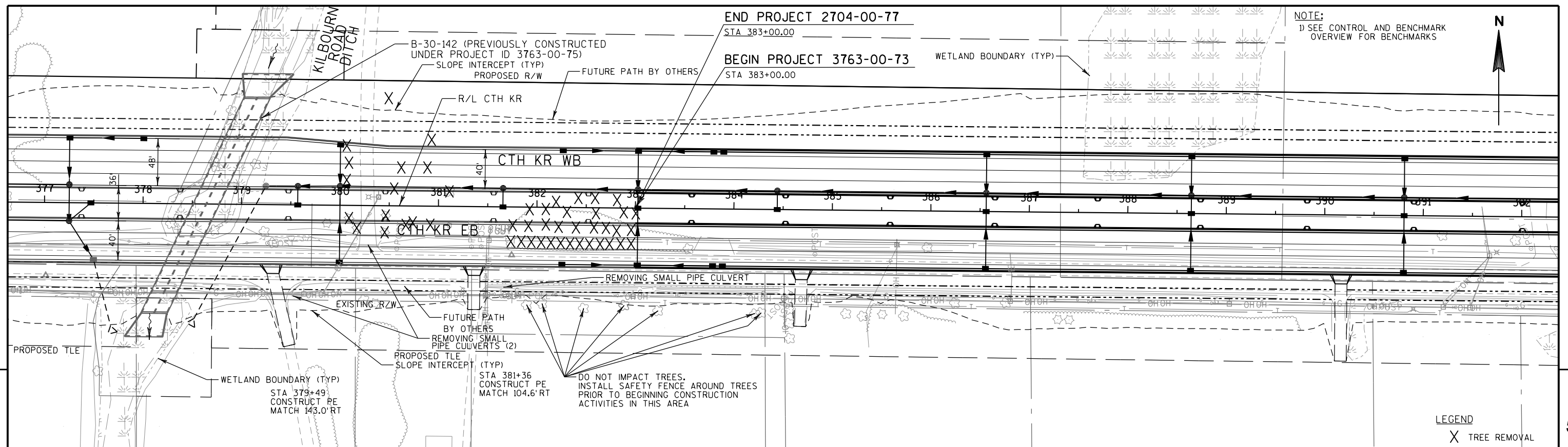
4

4





PROJECT NO: 2704-00-77	HWY: CTH KR	COUNTY: RACINE	PLAN AND PROFILE: CTH KR	SHEET	E
------------------------	-------------	----------------	--------------------------	-------	---



PROJECT NO: 2704-00-77

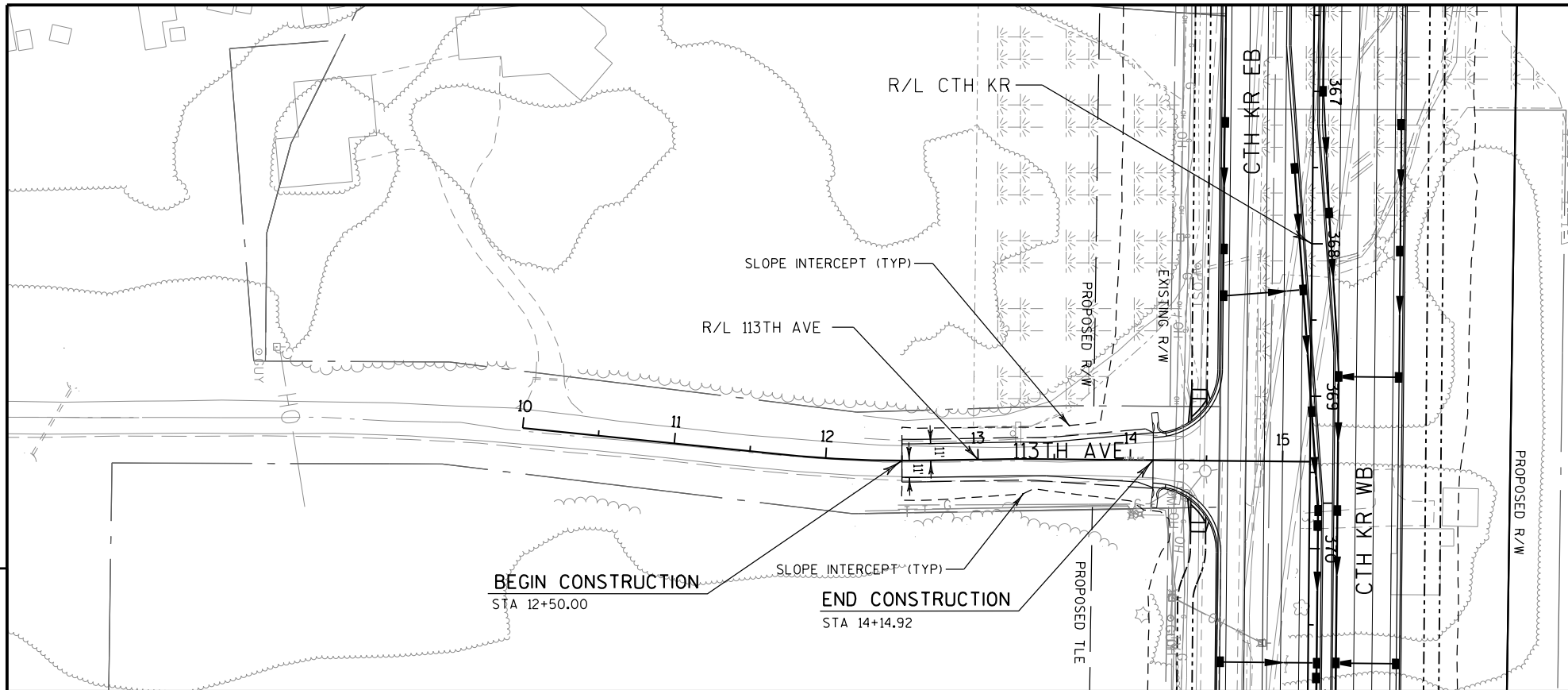
HWY: CTH KR

COUNTY: RACINE

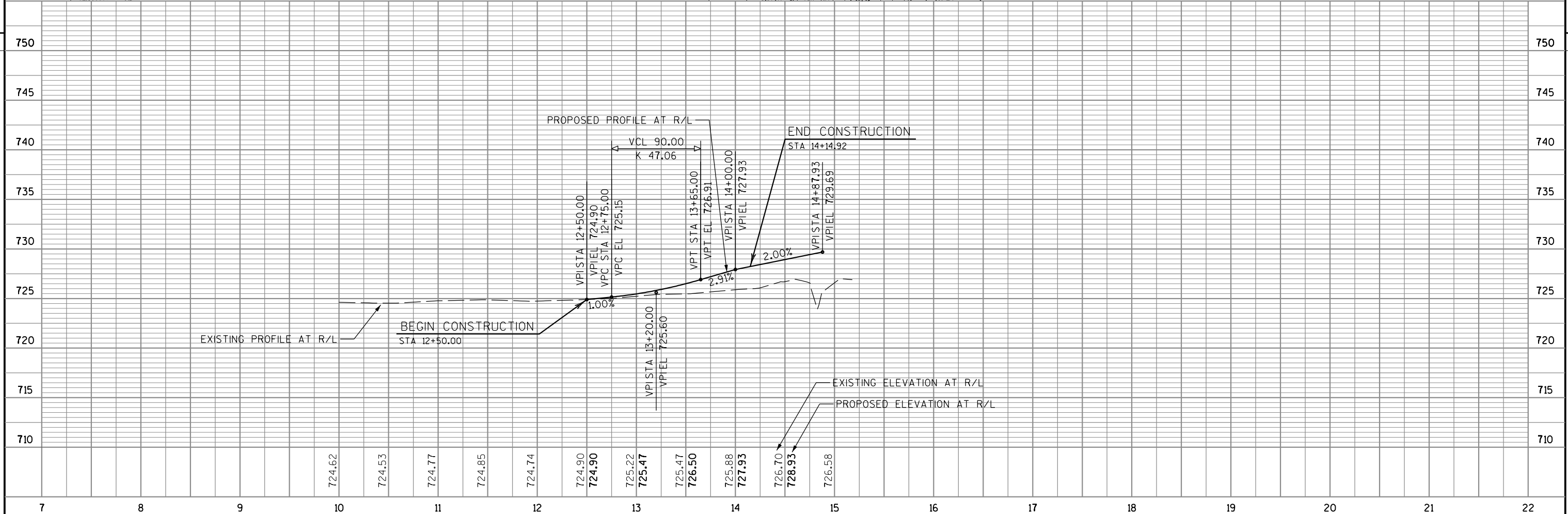
PLAN AND PROFILE: CTH KR

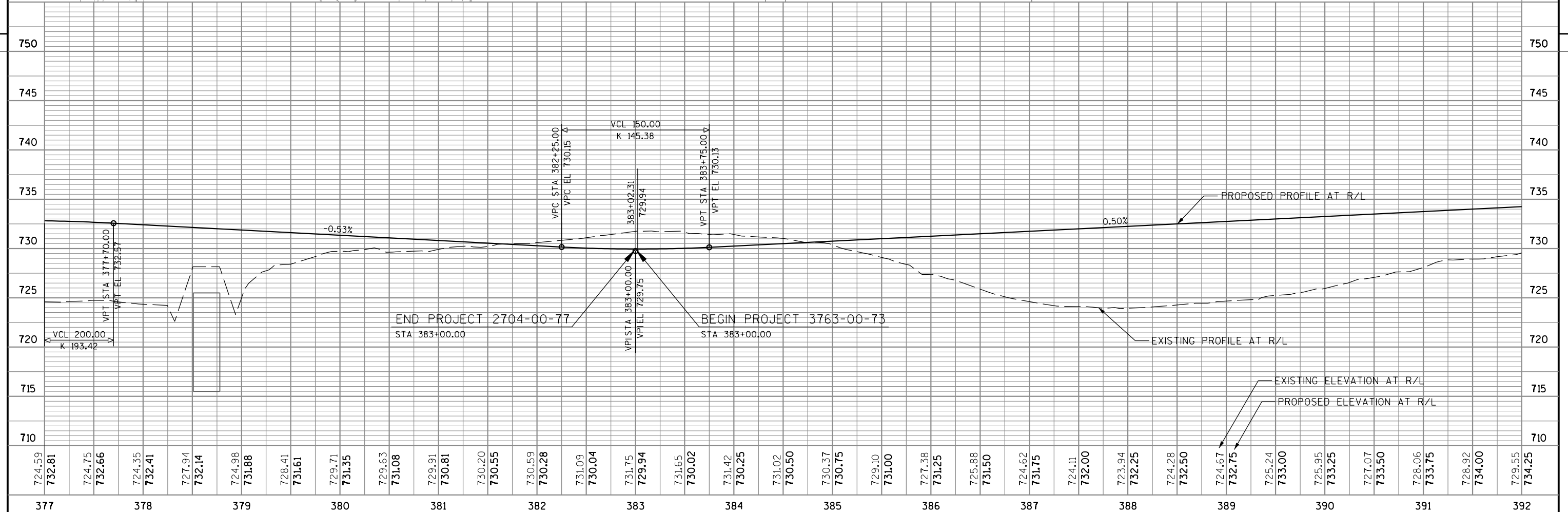
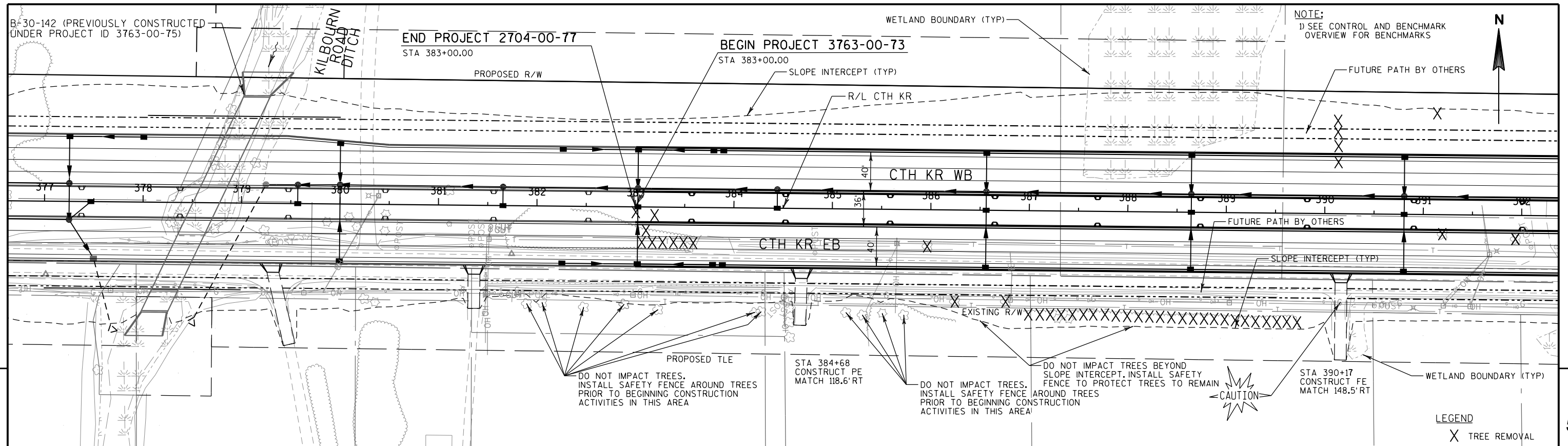
SHEET

3

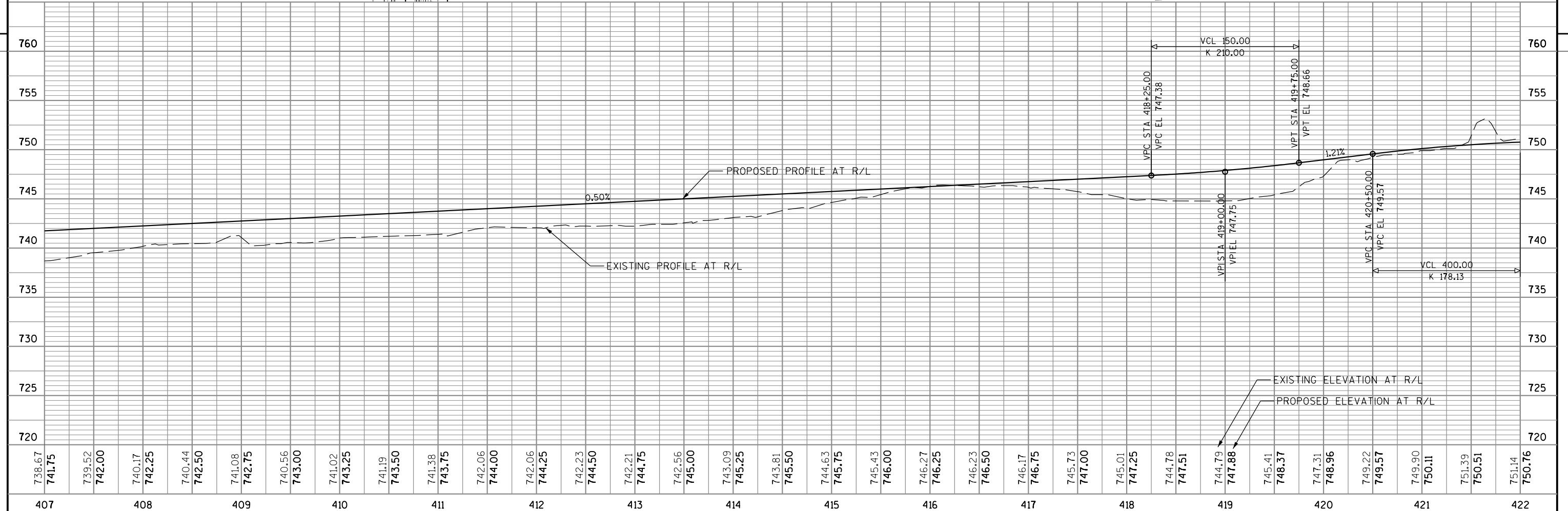
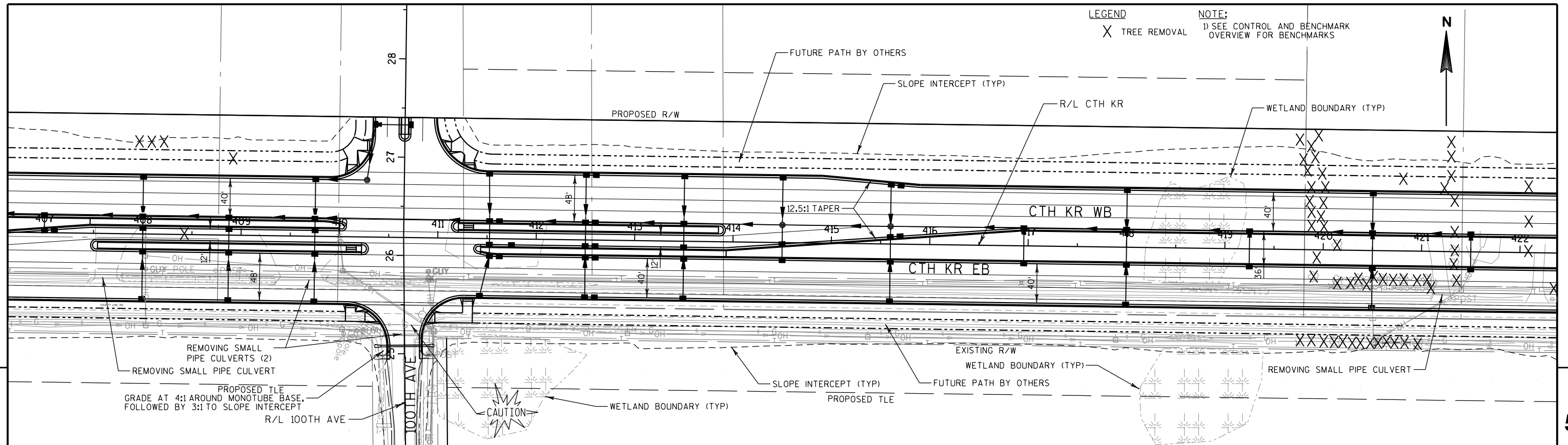


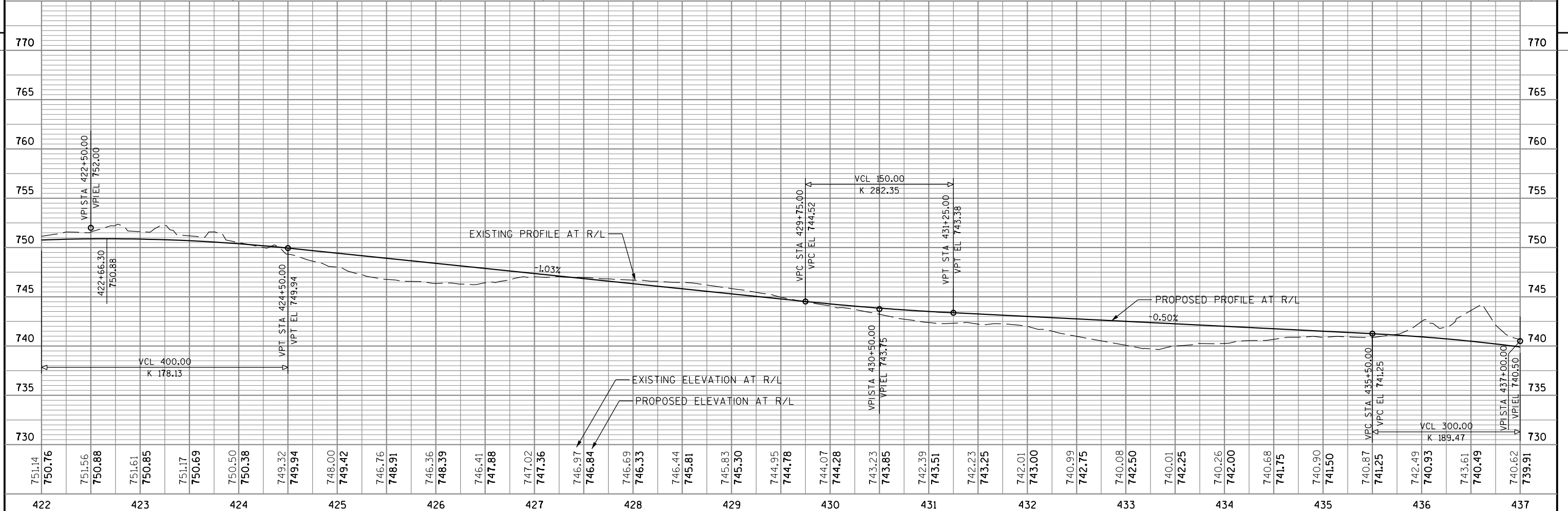
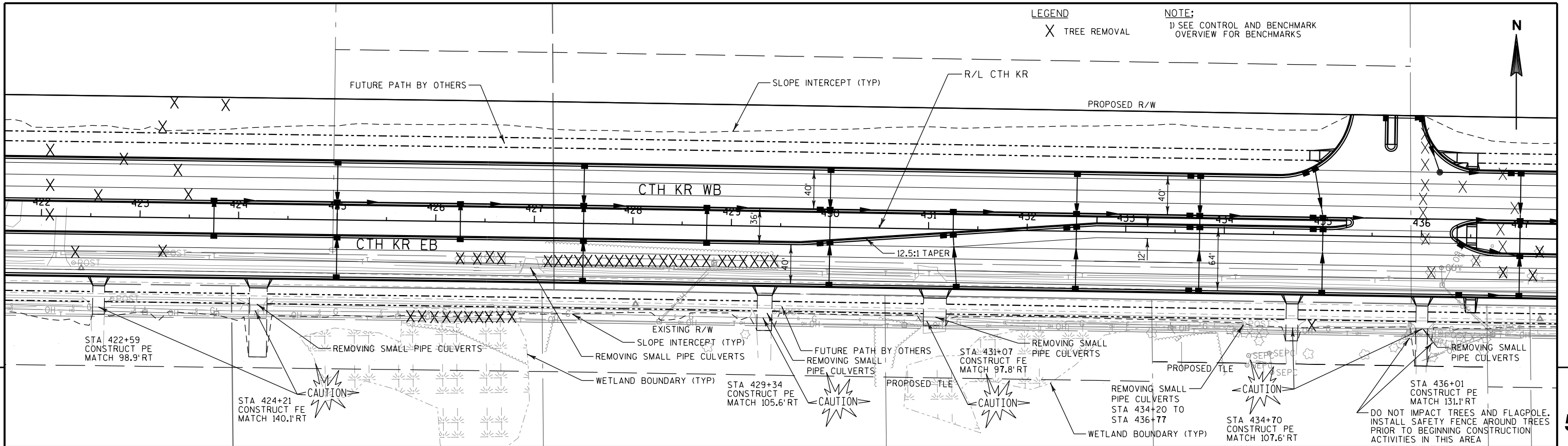
NOTE:
1) SEE CONTROL AND BENCHMARK
OVERVIEW FOR BENCHMARKS

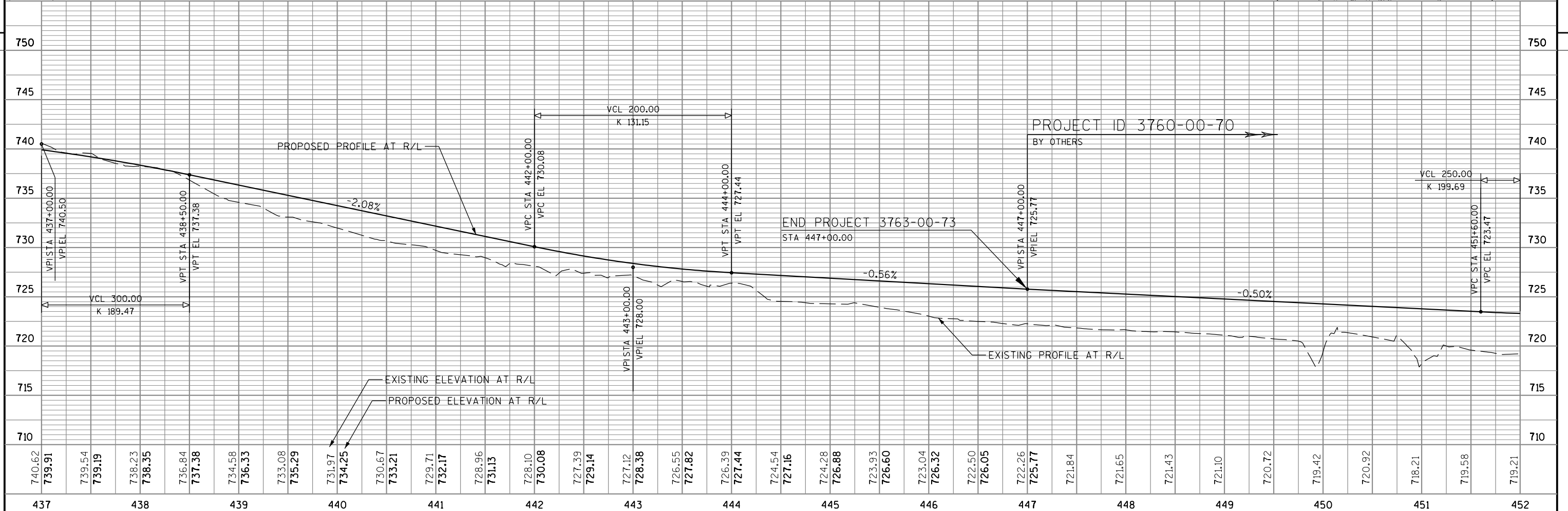
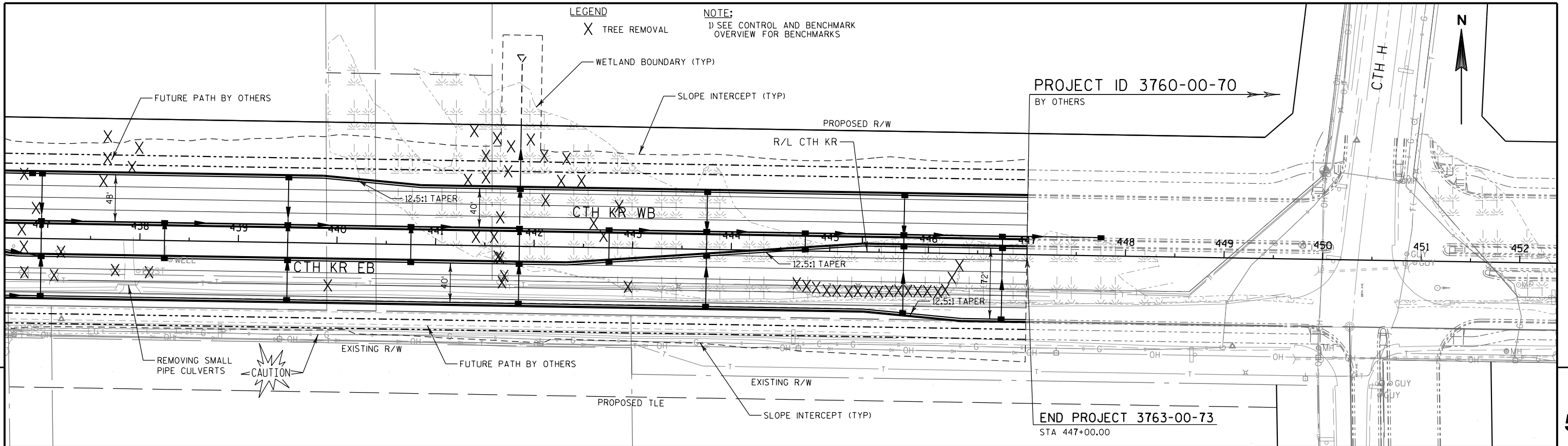




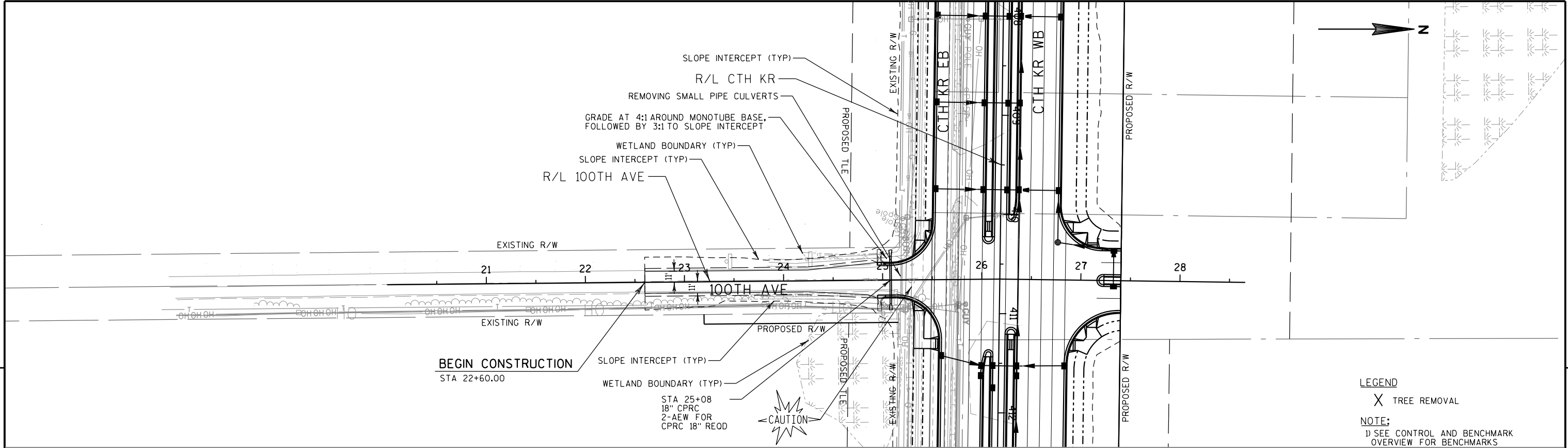
PROJECT NO: 3763-00-73	HWY: CTH KR	COUNTY: RACINE	PLAN AND PROFILE: CTH KR	SHEET	E
------------------------	-------------	----------------	--------------------------	-------	---





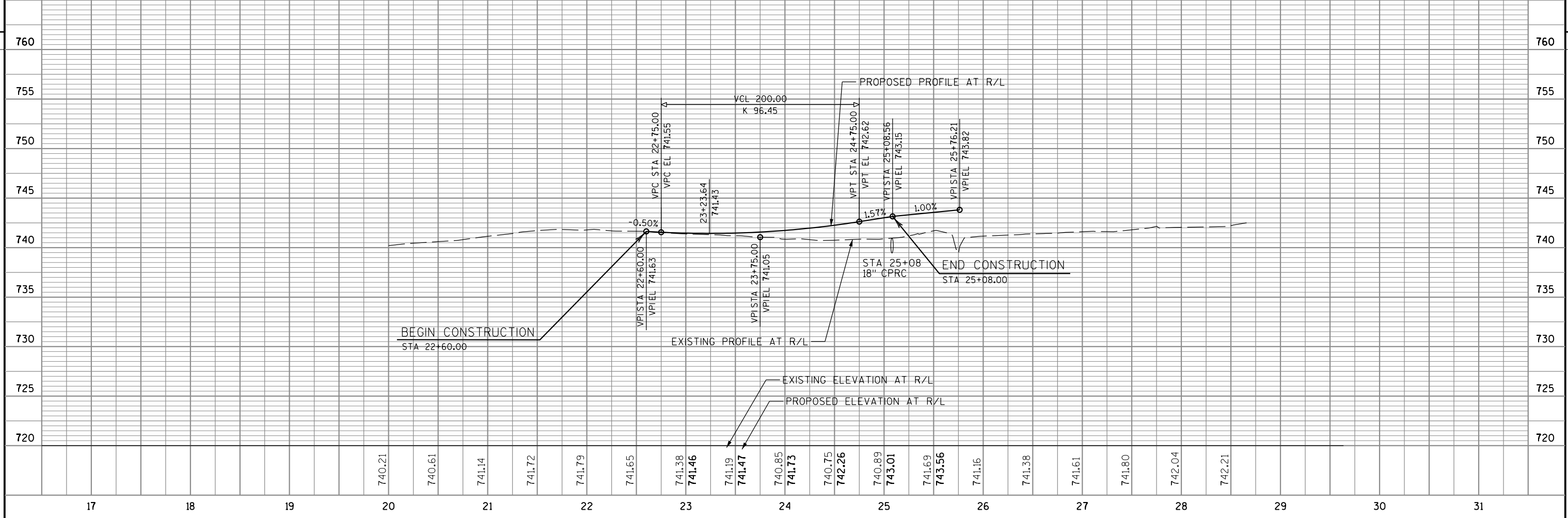


5

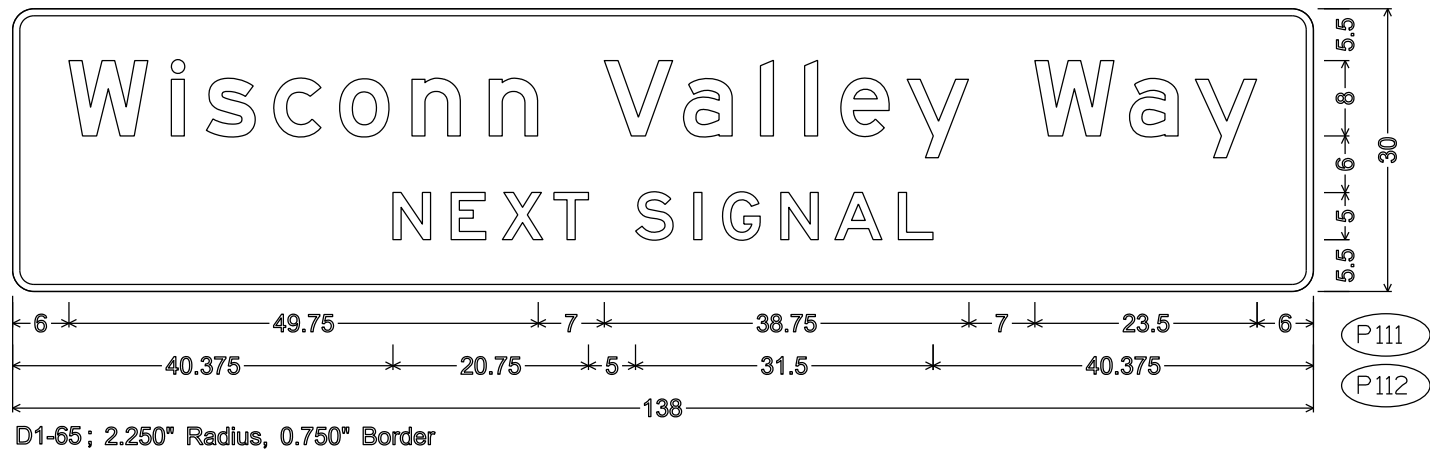


LEGEND
X TREE REMOVAL
NOTE:
1) SEE CONTROL AND BENCHMARK
OVERVIEW FOR BENCHMARKS

5

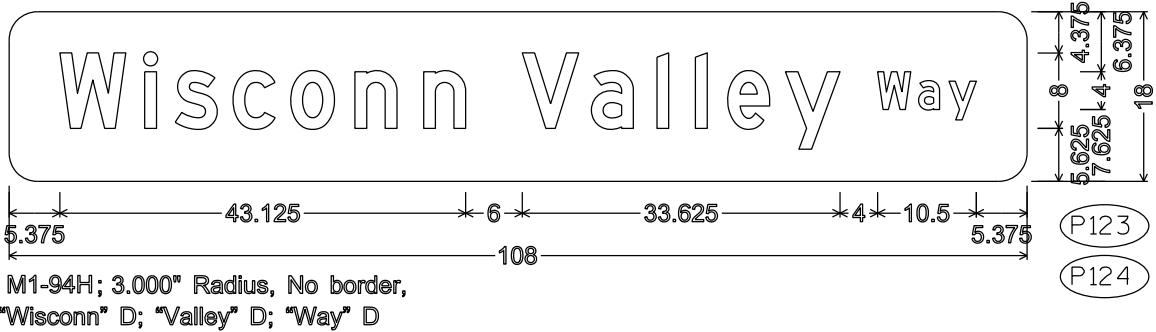


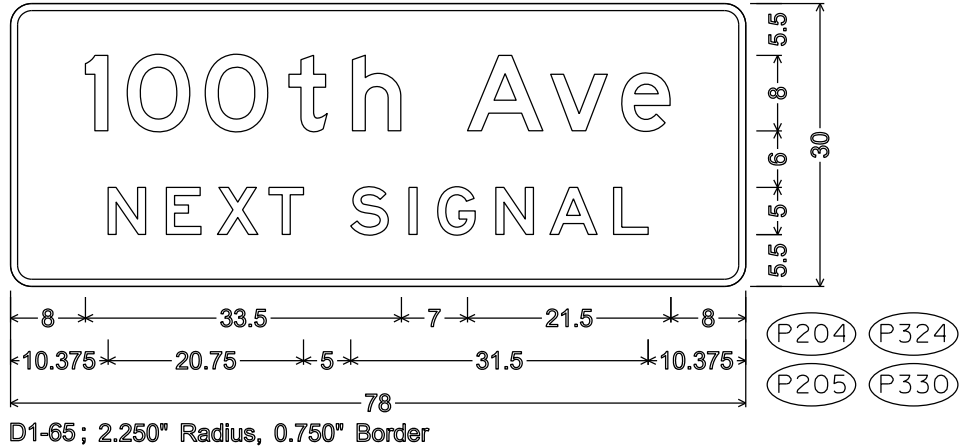
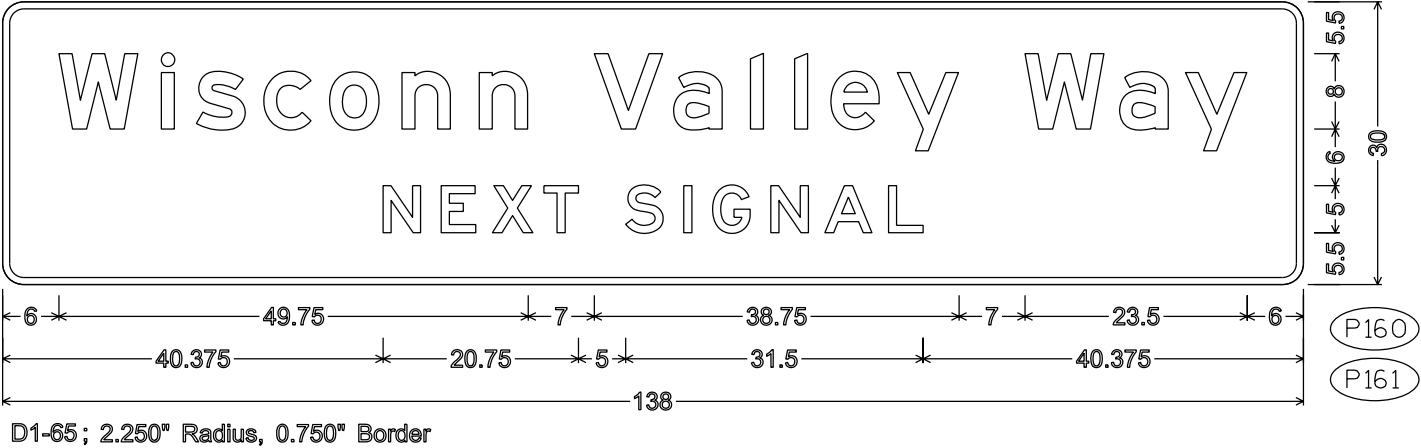
PROJECT NO: 3763-00-73	HWY: CTH KR	COUNTY: RACINE	PLAN AND PROFILE: 100TH AVE	SHEET	E
------------------------	-------------	----------------	-----------------------------	-------	---



NOTES

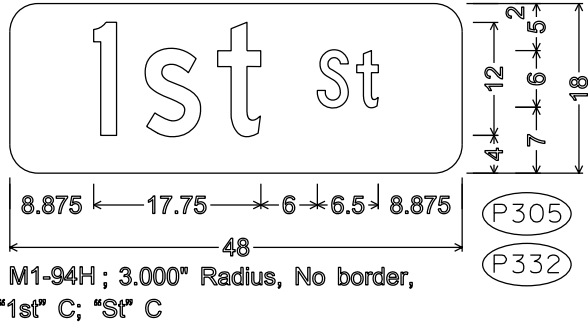
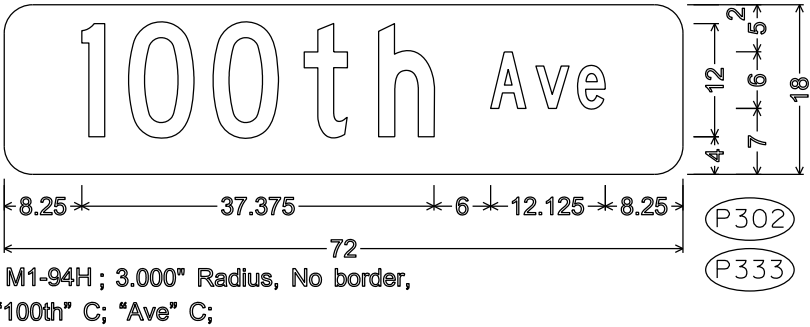
1. All Signs Type II - Type H Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E except as noted
4. M1-94H base material is .125" aluminum





NOTES

1. All Signs Type II - Type H Reflective
2. Color:
 - Background - Green
 - Message - White
3. Message Series - E except as noted
4. M1-94H base material is .125" aluminum



PROJECT 2704-00-77
CTH KR STAGE 1A

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
364+00.00	AH	36400.00	0.00									
364+50.00		36450.00	50.00									
365+00.00		36500.00	50.00									
365+50.00		36550.00	50.00									
366+00.00		36600.00	50.00									
366+50.00		36650.00	50.00									
367+00.00		36700.00	50.00									
367+50.00		36750.00	50.00									
368+00.00		36800.00	50.00									
368+50.00	BK	36850.00	50.00									
Column totals						265	302	0				-36

NOTE: 6 CY (NOT SHOWN IN THIS TABLE) OF EMBANKMENT REQUIRED FOR TEMPORARY BERMS (2 @ 3 CY EACH) - REFER TO STREAM RELOCATION CONSTRUCTION DETAILS

PROJECT 2704-00-77
CTH KR STAGE 1B

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
364+00.00 AH	36400.00	0.00	0	544.1	0.0	0	0	0	0	0	0	0
364+50.00	36450.00	50.00	0	514.3	0.0	0	980	0	0	980	0	-980
365+00.00	36500.00	50.00	0	521.5	0.0	0	959	0	0	1939	0	-1939
365+50.00	36550.00	50.00	0	571.3	0.0	0	1012	0	0	2951	0	-2951
366+00.00	36600.00	50.00	0	517.8	0.0	0	1008	0	0	3959	0	-3959
366+50.00	36650.00	50.00	0	505.4	0.0	0	947	0	0	4907	0	-4907
367+00.00	36700.00	50.00	0	528.6	0.0	0	957	0	0	5864	0	-5864
367+50.00	36750.00	50.00	0	518.3	0.0	0	969	0	0	6834	0	-6834
368+00.00	36800.00	50.00	0	402.5	0.0	0	853	0	0	7686	0	-7686
368+50.00	36850.00	50.00	0	237.9	0.0	0	593	0	0	8279	0	-8279
369+00.00	36900.00	50.00	0	167	0.0	0	375	0	0	8654	0	-8654
369+50.00	36950.00	50.00	18.3	90.8	0.0	17	239	0	17	8893	0	-8876
370+00.00	37000.00	50.00	33.6	85.5	0.0	48	163	0	65	9056	0	-8991
370+50.00	37050.00	50.00	8.8	94.6	0.0	39	167	0	104	9223	0	-9118
371+00.00	37100.00	50.00	0.6	120.6	0.0	9	199	0	113	9422	0	-9309
371+50.00	37150.00	50.00	0.5	126.5	0.0	1	229	0	114	9651	0	-9537
372+00.00	37200.00	50.00	0.8	130.5	0.0	1	238	0	115	9889	0	-9774
372+50.00	37250.00	50.00	0	188.3	0.0	1	295	0	116	10184	0	-10068
373+00.00	37300.00	50.00	0	243.5	0.0	0	400	0	116	10584	0	-10468
373+50.00	37350.00	50.00	0	271	0.0	0	476	0	116	11060	0	-10944
374+00.00	37400.00	50.00	0	186.4	0.0	0	424	0	116	11484	0	-11368
374+50.00	37450.00	50.00	0	52.6	0.0	0	221	0	116	11705	0	-11589
375+00.00	37500.00	50.00	18.1	16.8	0.0	17	64	0	133	11769	0	-11636
375+50.00	37550.00	50.00	79.5	1.9	0.0	90	17	0	223	11786	0	-11563
376+00.00	37600.00	50.00	64.7	7.7	0.0	134	9	0	357	11795	0	-11439
376+50.00	37650.00	50.00	0	249.6	0.0	60	238	0	416	12034	0	-11617
377+00.00	37700.00	50.00	0	636.3	0.0	0	820	0	416	12854	0	-12437
377+50.00	37750.00	50.00	0	643.1	0.0	0	1185	0	416	14039	0	-13622
378+00.00	37800.00	50.00	0	621.5	0.0	0	1171	0	416	15209	0	-14793
378+50.00	37850.00	50.00	0	517.6	0.0	0	1055	0	416	16264	0	-15848
379+00.00	37900.00	50.00	0	332.9	0.0	0	788	0	416	17052	0	-16635
379+50.00	37950.00	50.00	0	240.8	0.0	0	531	0	416	17583	0	-17166
380+00.00	38000.00	50.00	47	97.9	0.0	44	314	0	460	17896	0	-17436
380+50.00	38050.00	50.00	70.7	60.2	0.0	109	146	0	569	18043	0	-17474
381+00.00	38100.00	50.00	89.2	39.4	0.0	148	92	0	717	18135	0	-17418
381+50.00	38150.00	50.00	103.3	29.9	0.0	178	64	0	895	18199	0	-17304
382+00.00	38200.00	50.00	136.8	10.4	0.0	222	37	0	1118	18237	0	-17119
382+50.00	38250.00	50.00	175.1	0.4	0.0	289	10	0	1406	18247	0	-16840
383+00.00 BK	38300.00	50.00	189.2	2.3	0.0	337	3	0	1744	18249	0	-16505
Column totals						1744	18249	0				-16505

PROJECT 2704-00-77
CTH KR STAGE 2

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
364+00.00 AH	36400.00	0.00	0	190.1	0.0	0	0	0	0	0	0	0
364+50.00	36450.00	50.00	0	164.7	0.0	0	329	0	0	329	0	-329
365+00.00	36500.00	50.00	0.2	253.1	0.0	0	387	0	0	715	0	-715
365+50.00	36550.00	50.00	2.3	242.3	0.0	2	459	0	3	1174	0	-1172
366+00.00	36600.00	50.00	1.8	226.5	0.0	4	434	0	6	1608	0	-1602
366+50.00	36650.00	50.00	1.2	226.4	0.0	3	419	0	9	2028	0	-2018
367+00.00	36700.00	50.00	1.3	216	0.0	2	410	0	11	2437	0	-2426
367+50.00	36750.00	50.00	3.2	229.4	0.0	4	412	0	16	2850	0	-2834
368+00.00	36800.00	50.00	5.6	221.6	0.0	8	418	0	24	3267	0	-3243
368+50.00	36850.00	50.00	5.5	194.2	0.0	10	385	0	34	3652	0	-3618
369+00.00	36900.00	50.00	3.8	53.7	0.0	9	230	0	43	3882	0	-3839
369+50.00	36950.00	50.00	26.8	27.7	0.0	28	75	0	71	3957	0	-3886
370+00.00	37000.00	50.00	11.3	17.2	0.0	35	42	0	106	3999	0	-3892
370+50.00	37050.00	50.00	7.7	159.2	0.0	18	163	0	124	4162	0	-4038
371+00.00	37100.00	50.00	10.7	155.9	0.0	17	292	0	141	4454	0	-4313
371+50.00	37150.00	50.00	8.3	167.5	0.0	18	299	0	158	4753	0	-4595
372+00.00	37200.00	50.00	8.4	176.4	0.0	15	318	0	174	5072	0	-4898
372+50.00	37250.00	50.00	10.2	173.7	0.0	17	324	0	191	5396	0	-5205
373+00.00	37300.00	50.00	13.6	168.4	0.0	22	317	0	213	5713	0	-5499
373+50.00	37350.00	50.00	22.2	121	0.0	33	268	0	246	5980	0	-5734
374+00.00	37400.00	50.00	28.3	97.9	0.0	47	203	0	293	6183	0	-5890
374+50.00	37450.00	50.00	32.8	74.9	0.0	57	160	0	350	6343	0	-5994
375+00.00	37500.00	50.00	95.3	92	0.0	119	155	0	468	6498	0	-6029
375+50.00	37550.00	50.00	139	56.9	0.0	217	138	0	685	6636	0	-5950
376+00.00	37600.00	50.00	43.1	160.2	0.0	169	201	0	854	6837	0	-5983
376+50.00	37650.00	50.00	0	350.3	0.0	40	473	0	894	7309	0	-6416
377+00.00	37700.00	50.00	0	527.8	0.0	0	813	0	894	8122	0	-7229
377+50.00	37750.00	50.00	0	476.3	0.0	0	930	0	894	9052	0	-8158
378+00.00	37800.00	50.00	0	464.5	0.0	0	871	0	894	9923	0	-9029
378+50.00	37850.00	50.00	0	388.8	0.0	0	790	0	894	10713	0	-9820
379+00.00	37900.00	50.00	0	381	0.0	0	713	0	894	11426	0	-10532
379+50.00	37950.00	50.00	3.3	383.5	0.0	3	708	0	897	12134	0	-11237
380+00.00	38000.00	50.00	13.4	181.1	0.0	15	523	0	912	12657	0	-11744
380+50.00	38050.00	50.00	36.3	123.4	0.0	46	282	0	958	12939	0	-11980
381+00.00	38100.00	50.00	72.6	56.4	0.0	101	166	0	1059	13105	0	-12046
381+50.00	38150.00	50.00	133.3	17.1	0.0	191	68	0	1250	13173	0	-11923
382+00.00	38200.00	50.00	199.3	8.3	0.0	308	24	0	1558	13197	0	-11639
382+50.00	38250.00	50.00	299.7	0.3	0.0	462	8	0	2020	13205	0	-11185
383+00.00 BK	38300.00	50.00	397.3	0	0.0	645	0	0	2665	13205	0	-10540
Column totals						2665	13205	0				-10540

PROJECT 2704-00-77
113TH AVENUE - STAGE 2

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
12+50 AH	1250.00	0.00	30.8	0.1	0.0	0	0	0	0	0	0	0
13+00	1300.00	50.00	29	6.1	0.0	55	6	0	55	6	0	50
13+50	1350.00	50.00	3.5	5.6	0.0	30	11	0	85	17	0	69
14+00 BK	1400.00	50.00	0	62	0.0	0	115	0	85	131	0	-46
Column totals						85	131	0				-46

PROJECT 3763-00-73
CTH KR STAGE 1

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
383+00 AH	38300.00	0.00	189	2	0	0	0	0	0	0	0	0
383+50	38350.00	50.00	177	7	0	339	9	0	339	9	0	331
384+00	38400.00	50.00	143	26	0	296	31	0	635	39	0	596
384+50	38450.00	50.00	103	53	0	227	74	0	862	113	0	750
385+00	38500.00	50.00	52	95	0	144	137	0	1006	249	0	756
385+50	38550.00	50.00	2	173	0	50	247	0	1056	497	0	559
386+00	38600.00	50.00	0	300	0	2	438	0	1059	935	0	124
386+50	38650.00	50.00	0	460	0	0	704	0	1059	1638	0	-580
387+00	38700.00	50.00	0	631	0	0	1011	0	1059	2649	0	-1590
387+50	38750.00	50.00	0	775	0	0	1302	0	1059	3951	0	-2893
388+00	38800.00	50.00	0	839	0	0	1494	0	1059	5446	0	-4387
388+50	38850.00	50.00	0	852	0	0	1566	0	1059	7012	0	-5953
389+00	38900.00	50.00	0	863	0	0	1588	0	1059	8600	0	-7541
389+50	38950.00	50.00	0	762	0	0	1504	0	1059	10103	0	-9045
390+00	39000.00	50.00	0	650	0	0	1307	0	1059	11410	0	-10352
390+50	39050.00	50.00	0	444	0	0	1013	0	1059	12423	0	-11365
391+00	39100.00	50.00	0	383	0	0	766	0	1059	13190	0	-12131
391+50	39150.00	50.00	0	343	0	0	672	0	1059	13862	0	-12803
392+00	39200.00	50.00	0	285	0	0	581	0	1059	14442	0	-13384
392+50	39250.00	50.00	0	208	0	0	456	0	1059	14898	0	-13840
393+00	39300.00	50.00	22	106	0	20	291	0	1079	15189	0	-14110
393+50	39350.00	50.00	0	337	0	20	410	0	1099	15599	0	-14500
394+00	39400.00	50.00	0	613	0	0	879	0	1099	16478	0	-15379
394+50	39450.00	50.00	0	896	0	0	1398	0	1099	17876	0	-16776
395+00	39500.00	50.00	0	1037	0	0	1790	0	1099	19666	0	-18567
395+50	39550.00	50.00	0	972	0	0	1860	0	1099	21526	0	-20427
396+00	39600.00	50.00	0	882	0	0	1716	0	1099	23243	0	-22143
396+50	39650.00	50.00	0	760	0	0	1520	0	1099	24763	0	-23663
397+00	39700.00	50.00	0	677	0	0	1330	0	1099	26093	0	-24993
397+50	39750.00	50.00	0	675	0	0	1252	0	1099	27344	0	-26245
398+00	39800.00	50.00	0	709	0	0	1282	0	1099	28626	0	-27527
398+50	39850.00	50.00	0	786	0	0	1384	0	1099	30011	0	-28911
399+00	39900.00	50.00	0	828	0	0	1494	0	1099	31505	0	-30405
399+50	39950.00	50.00	0	836	0	0	1540	0	1099	33045	0	-31946
400+00	40000.00	50.00	0	768	0	0	1485	0	1099	34530	0	-33430

PROJECT 3763-00-73
CTH KR STAGE 1

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
400+50	40050.00	50.00	0	638	0	0	1302	0	1099	35832	0	-34732
401+00	40100.00	50.00	0	453	0	0	1011	0	1099	36842	0	-35743
401+50	40150.00	50.00	0	375	0	0	767	0	1099	37609	0	-36510
402+00	40200.00	50.00	0	297	0	0	622	0	1099	38231	0	-37132
402+50	40250.00	50.00	0	223	0	0	482	0	1099	38713	0	-37613
403+00	40300.00	50.00	0	226	0	0	416	0	1099	39129	0	-38030
403+50	40350.00	50.00	0	259	0	0	450	0	1099	39579	0	-38479
404+00	40400.00	50.00	0	286	0	0	505	0	1099	40084	0	-38984
404+50	40450.00	50.00	0	348	0	0	587	0	1099	40671	0	-39571
405+00	40500.00	50.00	0	383	0	0	677	0	1099	41348	0	-40248
405+50	40550.00	50.00	0	370	0	0	697	0	1099	42044	0	-40945
406+00	40600.00	50.00	0	305	0	0	624	0	1099	42669	0	-41569
406+50	40650.00	50.00	0	224	0	0	490	0	1099	43158	0	-42059
407+00	40700.00	50.00	0	174	0	0	368	0	1099	43527	0	-42427
407+50	40750.00	50.00	12	90	0	11	244	0	1111	43771	0	-42660
408+00	40800.00	50.00	29	70	0	38	148	0	1148	43919	0	-42770
408+50	40850.00	50.00	27	90	0	52	148	0	1200	44066	0	-42866
409+00	40900.00	50.00	11	82	0	35	159	0	1236	44226	0	-42990
409+50	40950.00	50.00	3	88	0	13	158	0	1248	44384	0	-43135
410+00	41000.00	50.00	28	6	0	28	87	0	1277	44471	0	-43194
410+50	41050.00	50.00	80	7	0	100	12	0	1376	44483	0	-43107
411+00	41100.00	50.00	44	8	0	115	14	0	1491	44497	0	-43005
411+50	41150.00	50.00	61	53	0	97	56	0	1589	44552	0	-42963
412+00	41200.00	50.00	63	49	0	115	94	0	1704	44646	0	-42943
412+50	41250.00	50.00	48	60	0	103	101	0	1806	44747	0	-42941
413+00	41300.00	50.00	32	52	0	74	104	0	1880	44851	0	-42971
413+50	41350.00	50.00	51	42	0	77	88	0	1957	44939	0	-42982
414+00	41400.00	50.00	73	33	0	115	70	0	2072	45009	0	-42937
414+50	41450.00	50.00	96	27	0	156	56	0	2228	45064	0	-42836
415+00	41500.00	50.00	115	24	0	195	47	0	2423	45112	0	-42689
415+50	41550.00	50.00	132	23	0	229	43	0	2652	45155	0	-42503
416+00	41600.00	50.00	144	18	0	256	37	0	2908	45192	0	-42285
416+50	41650.00	50.00	126	17	0	250	32	0	3158	45224	0	-42066
417+00	41700.00	50.00	106	13	0	215	27	0	3373	45251	0	-41878
417+50	41750.00	50.00	66	41	0	159	49	0	3532	45300	0	-41768
418+00	41800.00	50.00	18	84	0	78	115	0	3609	45416	0	-41806
418+50	41850.00	50.00	0	132	0	17	200	0	3626	45616	0	-41989
419+00	41900.00	50.00	0	175	0	0	284	0	3627	45900	0	-42273
419+50	41950.00	50.00	0	187	0	0	336	0	3627	46235	0	-42609
420+00	42000.00	50.00	57	78	0	53	246	0	3680	46481	0	-42801

PROJECT 3763-00-73
CTH KR STAGE 1

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
420+50	42050.00	50.00	115	20	0	160	91	0	3839	46572	0	-42733
421+00	42100.00	50.00	105	28	0	204	45	0	4044	46616	0	-42573
421+50	42150.00	50.00	205	0	0	287	26	0	4331	46643	0	-42312
422+00	42200.00	50.00	151	0	0	329	0	0	4660	46643	0	-41983
422+50	42250.00	50.00	178	0	0	305	0	0	4964	46643	0	-41679
423+00	42300.00	50.00	159	0	0	312	0	0	5276	46643	0	-41367
423+50	42350.00	50.00	142	14	0	278	13	0	5555	46656	0	-41101
424+00	42400.00	50.00	119	27	0	242	37	0	5796	46693	0	-40897
424+50	42450.00	50.00	85	48	0	189	69	0	5985	46762	0	-40777
425+00	42500.00	50.00	66	56	0	140	97	0	6125	46859	0	-40734
425+50	42550.00	50.00	27	86	0	86	131	0	6211	46990	0	-40780
426+00	42600.00	50.00	28	85	0	51	158	0	6262	47149	0	-40887
426+50	42650.00	50.00	39	86	0	62	159	0	6324	47308	0	-40984
427+00	42700.00	50.00	85	57	0	115	132	0	6438	47440	0	-41001
427+50	42750.00	50.00	111	38	0	181	88	0	6620	47527	0	-40908
428+00	42800.00	50.00	120	37	0	213	69	0	6833	47596	0	-40763
428+50	42850.00	50.00	131	36	0	232	68	0	7065	47664	0	-40599
429+00	42900.00	50.00	129	41	0	240	72	0	7305	47736	0	-40431
429+50	42950.00	50.00	105	57	0	216	91	0	7522	47827	0	-40305
430+00	43000.00	50.00	75	76	0	166	123	0	7688	47950	0	-40262
430+50	43050.00	50.00	51	100	0	116	163	0	7805	48113	0	-40308
431+00	43100.00	50.00	30	116	0	75	200	0	7880	48313	0	-40433
431+50	43150.00	50.00	33	116	0	58	215	0	7938	48528	0	-40590
432+00	43200.00	50.00	25	133	0	53	231	0	7991	48758	0	-40767
432+50	43250.00	50.00	8	163	0	30	274	0	8021	49032	0	-41011
433+00	43300.00	50.00	1	197	0	8	334	0	8029	49366	0	-41337
433+50	43350.00	50.00	0	238	0	1	403	0	8029	49769	0	-41739
434+00	43400.00	50.00	5	178	0	5	385	0	8034	50154	0	-42120
434+50	43450.00	50.00	21	137	0	24	291	0	8058	50445	0	-42387
435+00	43500.00	50.00	54	3	0	69	129	0	8127	50574	0	-42447
435+50	43550.00	50.00	67	7	0	113	8	0	8240	50583	0	-42343
436+00	43600.00	50.00	139	0	0	191	6	0	8431	50589	0	-42157
436+50	43650.00	50.00	214	0	0	327	0	0	8758	50589	0	-41831
437+00	43700.00	50.00	140	35	0	327	33	0	9085	50621	0	-41536
437+50	43750.00	50.00	113	47	0	234	76	0	9319	50698	0	-41378
438+00	43800.00	50.00	81	65	0	180	104	0	9499	50802	0	-41303
438+50	43850.00	50.00	51	81	0	122	135	0	9621	50937	0	-41316
439+00	43900.00	50.00	47	88	0	91	156	0	9711	51093	0	-41382
439+50	43950.00	50.00	1	195	0	44	261	0	9756	51355	0	-41599
440+00	44000.00	50.00	0	244	0	0	406	0	9756	51761	0	-42005

PROJECT 3763-00-73
CTH KR STAGE 1

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
440+50	44050.00	50.00	0	220	0	0	430	0	9756	52191	0	-42435
441+00	44100.00	50.00	0	163	0	0	354	0	9756	52546	0	-42790
441+50	44150.00	50.00	26	104	0	24	246	0	9780	52792	0	-43012
442+00	44200.00	50.00	20	89	0	43	178	0	9823	52971	0	-43148
442+50	44250.00	50.00	52	59	0	67	137	0	9890	53107	0	-43218
443+00	44300.00	50.00	74	60	0	116	110	0	10006	53217	0	-43211
443+50	44350.00	50.00	45	68	0	110	118	0	10116	53335	0	-43219
444+00	44400.00	50.00	22	70	0	62	128	0	10178	53462	0	-43284
444+50	44450.00	50.00	50	48	0	67	109	0	10245	53572	0	-43326
445+00	44500.00	50.00	69	42	0	110	83	0	10355	53655	0	-43300
445+50	44550.00	50.00	29	81	0	90	113	0	10445	53768	0	-43323
446+00	44600.00	50.00	8	86	0	34	155	0	10479	53923	0	-43444
446+50	44650.00	50.00	7	94	0	14	167	0	10492	54090	0	-43598
447+00 BK	44700.00	50.00	0	142	0	7	218	0	10485	54141	0	-43656
Column totals						10499	54308	0				-43656

PROJECT 3763-00-73
CTH KR STAGE 2

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
383+00 AH	38300.00	0.00	397	0	0	0	0	0	0	0	0	0
383+50	38350.00	50.00	399	0	0	737	0	0	737	0	0	737
384+00	38400.00	50.00	360	0	0	703	0	0	1440	0	0	1440
384+50	38450.00	50.00	299	0	0	611	0	0	2051	0	0	2051
385+00	38500.00	50.00	189	2	0	452	2	0	2503	2	0	2501
385+50	38550.00	50.00	77	54	0	246	52	0	2750	54	0	2696
386+00	38600.00	50.00	15	195	0	85	230	0	2835	284	0	2551
386+50	38650.00	50.00	0	352	0	14	506	0	2849	790	0	2059
387+00	38700.00	50.00	0	511	0	0	799	0	2849	1589	0	1260
387+50	38750.00	50.00	0	537	0	0	971	0	2849	2560	0	289
388+00	38800.00	50.00	0	548	0	0	1004	0	2849	3565	0	-716
388+50	38850.00	50.00	0	551	0	0	1017	0	2849	4582	0	-1733
389+00	38900.00	50.00	0	556	0	0	1025	0	2849	5607	0	-2758
389+50	38950.00	50.00	0	556	0	0	1030	0	2849	6637	0	-3788
390+00	39000.00	50.00	0	498	0	0	976	0	2849	7613	0	-4764
390+50	39050.00	50.00	0	445	0	0	873	0	2849	8486	0	-5637
391+00	39100.00	50.00	0	405	0	0	787	0	2849	9272	0	-6423
391+50	39150.00	50.00	0	385	0	0	731	0	2849	10003	0	-7154
392+00	39200.00	50.00	0	375	0	0	703	0	2849	10707	0	-7858
392+50	39250.00	50.00	0	366	0	0	686	0	2849	11393	0	-8543
393+00	39300.00	50.00	0	349	0	0	662	0	2849	12054	0	-9205
393+50	39350.00	50.00	0	376	0	0	671	0	2849	12726	0	-9876
394+00	39400.00	50.00	0	452	0	0	766	0	2849	13492	0	-10643
394+50	39450.00	50.00	0	599	0	0	973	0	2849	14465	0	-11616
395+00	39500.00	50.00	0	708	0	0	1211	0	2849	15676	0	-12827
395+50	39550.00	50.00	0	648	0	0	1256	0	2849	16931	0	-14082
396+00	39600.00	50.00	0	634	0	0	1187	0	2849	18118	0	-15269
396+50	39650.00	50.00	0	600	0	0	1143	0	2849	19261	0	-16412
397+00	39700.00	50.00	0	606	0	0	1116	0	2849	20378	0	-17528
397+50	39750.00	50.00	0	646	0	0	1159	0	2849	21537	0	-18687
398+00	39800.00	50.00	0	687	0	0	1234	0	2849	22771	0	-19921
398+50	39850.00	50.00	0	705	0	0	1289	0	2849	24060	0	-21210
399+00	39900.00	50.00	0	692	0	0	1293	0	2849	25353	0	-22504
399+50	39950.00	50.00	0	670	0	0	1261	0	2849	26613	0	-23764
400+00	40000.00	50.00	0	598	0	0	1174	0	2849	27787	0	-24938

PROJECT 3763-00-73
CTH KR STAGE 2

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
400+50	40050.00	50.00	0	509	0	0	1025	0	2849	28812	0	-25963
401+00	40100.00	50.00	0	426	0	0	865	0	2849	29678	0	-26829
401+50	40150.00	50.00	0	371	0	0	738	0	2849	30416	0	-27566
402+00	40200.00	50.00	2	315	0	2	635	0	2851	31051	0	-28200
402+50	40250.00	50.00	4	265	0	6	538	0	2857	31589	0	-28732
403+00	40300.00	50.00	4	255	0	7	481	0	2864	32070	0	-29206
403+50	40350.00	50.00	3	275	0	6	491	0	2871	32560	0	-29690
404+00	40400.00	50.00	1	307	0	4	539	0	2874	33100	0	-30225
404+50	40450.00	50.00	0	339	0	1	598	0	2875	33697	0	-30822
405+00	40500.00	50.00	0	327	0	0	617	0	2876	34314	0	-31438
405+50	40550.00	50.00	0	307	0	0	587	0	2876	34901	0	-32025
406+00	40600.00	50.00	1	249	0	1	514	0	2876	35415	0	-32539
406+50	40650.00	50.00	5	166	0	5	384	0	2882	35799	0	-32917
407+00	40700.00	50.00	11	125	0	15	269	0	2897	36068	0	-33171
407+50	40750.00	50.00	29	91	0	37	200	0	2934	36268	0	-33333
408+00	40800.00	50.00	46	90	0	69	167	0	3003	36435	0	-33431
408+50	40850.00	50.00	44	93	0	83	169	0	3087	36604	0	-33518
409+00	40900.00	50.00	48	103	0	86	182	0	3172	36786	0	-33614
409+50	40950.00	50.00	30	88	0	72	177	0	3244	36964	0	-33719
410+00	41000.00	50.00	30	104	0	55	178	0	3300	37142	0	-33842
410+50	41050.00	50.00	37	4	0	62	100	0	3362	37242	0	-33880
411+00	41100.00	50.00	20	1	0	52	5	0	3414	37247	0	-33833
411+50	41150.00	50.00	27	126	0	43	118	0	3456	37364	0	-33908
412+00	41200.00	50.00	12	133	0	36	239	0	3492	37603	0	-34111
412+50	41250.00	50.00	13	128	0	23	241	0	3515	37845	0	-34330
413+00	41300.00	50.00	11	126	0	22	236	0	3537	38080	0	-34543
413+50	41350.00	50.00	11	135	0	20	242	0	3557	38322	0	-34766
414+00	41400.00	50.00	17	116	0	25	233	0	3582	38555	0	-34973
414+50	41450.00	50.00	39	101	0	51	201	0	3633	38756	0	-35123
415+00	41500.00	50.00	69	81	0	100	169	0	3733	38925	0	-35192
415+50	41550.00	50.00	100	67	0	156	137	0	3889	39062	0	-35173
416+00	41600.00	50.00	123	53	0	206	111	0	4095	39173	0	-35078
416+50	41650.00	50.00	109	63	0	215	107	0	4310	39281	0	-34970
417+00	41700.00	50.00	100	76	0	194	128	0	4504	39409	0	-34905
417+50	41750.00	50.00	74	102	0	162	164	0	4666	39573	0	-34907
418+00	41800.00	50.00	41	144	0	107	227	0	4773	39800	0	-35027
418+50	41850.00	50.00	21	186	0	57	305	0	4830	40104	0	-35274
419+00	41900.00	50.00	20	208	0	37	365	0	4867	40469	0	-35602
419+50	41950.00	50.00	21	197	0	37	375	0	4905	40844	0	-35940
420+00	42000.00	50.00	42	140	0	58	312	0	4963	41156	0	-36194

PROJECT 3763-00-73
CTH KR STAGE 2

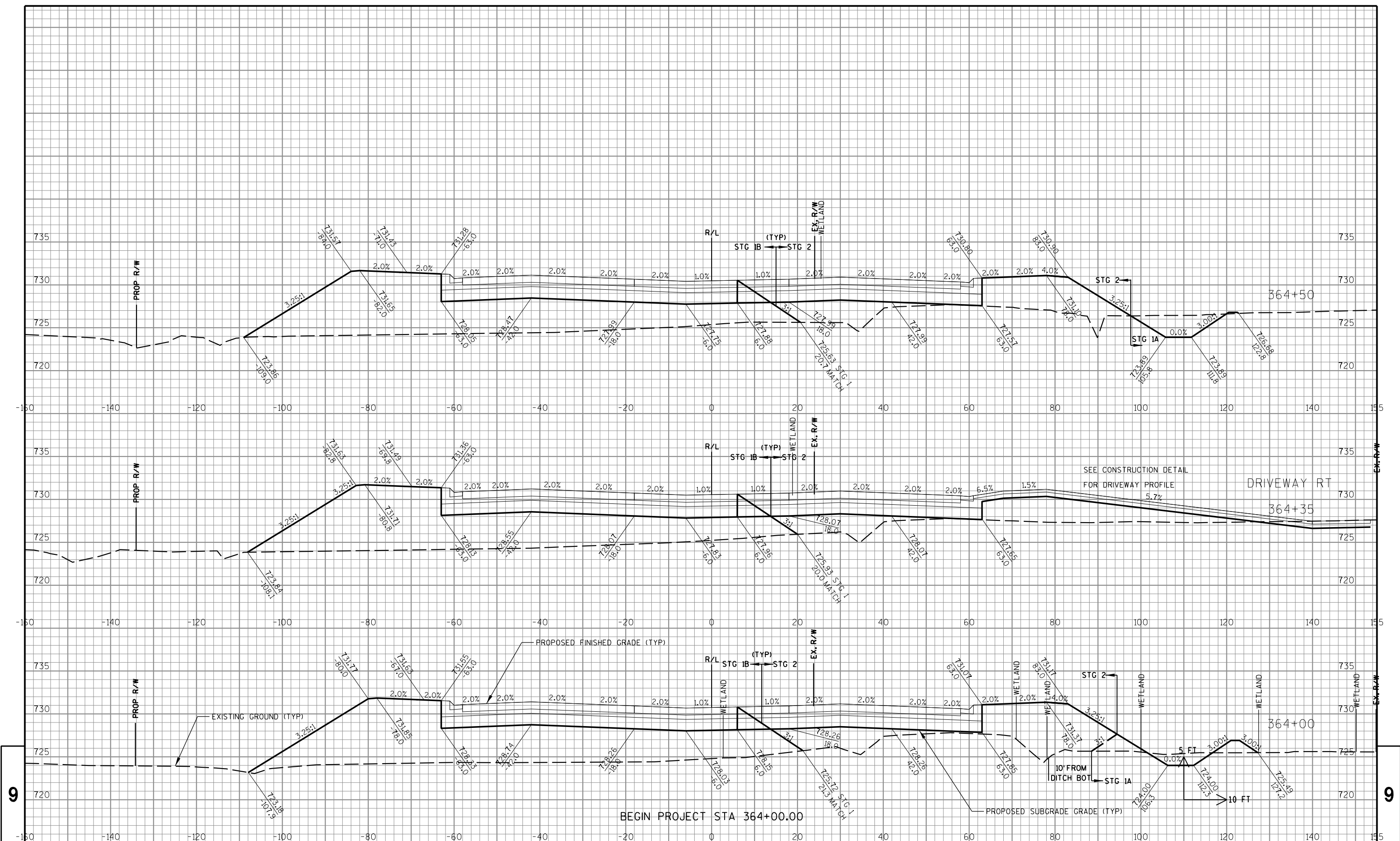
STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
420+50	42050.00	50.00	98	70	0	129	194	0	5092	41350	0	-36258
421+00	42100.00	50.00	140	46	0	220	107	0	5313	41458	0	-36145
421+50	42150.00	50.00	168	18	0	285	59	0	5598	41516	0	-35918
422+00	42200.00	50.00	175	26	0	318	40	0	5916	41557	0	-35641
422+50	42250.00	50.00	173	12	0	323	35	0	6238	41592	0	-35354
423+00	42300.00	50.00	173	14	0	320	24	0	6558	41616	0	-35058
423+50	42350.00	50.00	152	26	0	301	37	0	6859	41653	0	-34794
424+00	42400.00	50.00	123	48	0	254	69	0	7113	41722	0	-34608
424+50	42450.00	50.00	106	71	0	212	110	0	7326	41832	0	-34506
425+00	42500.00	50.00	77	93	0	170	151	0	7496	41983	0	-34488
425+50	42550.00	50.00	56	102	0	124	180	0	7619	42164	0	-34545
426+00	42600.00	50.00	62	88	0	109	176	0	7728	42340	0	-34612
426+50	42650.00	50.00	89	68	0	140	145	0	7868	42485	0	-34617
427+00	42700.00	50.00	164	35	0	235	96	0	8103	42581	0	-34478
427+50	42750.00	50.00	190	21	0	328	52	0	8431	42632	0	-34201
428+00	42800.00	50.00	209	12	0	370	30	0	8801	42662	0	-33862
428+50	42850.00	50.00	238	7	0	414	17	0	9214	42679	0	-33465
429+00	42900.00	50.00	248	6	0	449	12	0	9664	42691	0	-33027
429+50	42950.00	50.00	240	15	0	451	19	0	10115	42710	0	-32595
430+00	43000.00	50.00	235	21	0	440	33	0	10555	42743	0	-32188
430+50	43050.00	50.00	233	24	0	434	41	0	10989	42784	0	-31796
431+00	43100.00	50.00	126	26	0	333	46	0	11321	42830	0	-31508
431+50	43150.00	50.00	213	14	0	314	37	0	11636	42867	0	-31231
432+00	43200.00	50.00	219	7	0	400	20	0	12036	42887	0	-30850
432+50	43250.00	50.00	176	-2	0	366	5	0	12402	42892	0	-30490
433+00	43300.00	50.00	145	-7	0	297	-8	0	12699	42884	0	-30185
433+50	43350.00	50.00	173	-7	0	295	-13	0	12994	42870	0	-29877
434+00	43400.00	50.00	218	-4	0	362	-10	0	13355	42860	0	-29505
434+50	43450.00	50.00	275	-1	0	456	-5	0	13812	42855	0	-29043
435+00	43500.00	50.00	311	-1	0	543	-2	0	14354	42853	0	-28499
435+50	43550.00	50.00	336	0	0	599	-1	0	14953	42852	0	-27899
436+00	43600.00	50.00	345	0	0	630	0	0	15583	42852	0	-27269
436+50	43650.00	50.00	375	0	0	666	0	0	16249	42852	0	-26602
437+00	43700.00	50.00	258	3	0	586	3	0	16835	42854	0	-26019
437+50	43750.00	50.00	230	11	0	452	13	0	17287	42868	0	-25581
438+00	43800.00	50.00	240	22	0	435	31	0	17722	42898	0	-25176
438+50	43850.00	50.00	210	31	0	416	49	0	18138	42947	0	-24809
439+00	43900.00	50.00	175	54	0	356	79	0	18494	43026	0	-24532
439+50	43950.00	50.00	159	61	0	309	107	0	18803	43133	0	-24329
440+00	44000.00	50.00	127	64	0	265	116	0	19068	43249	0	-24181

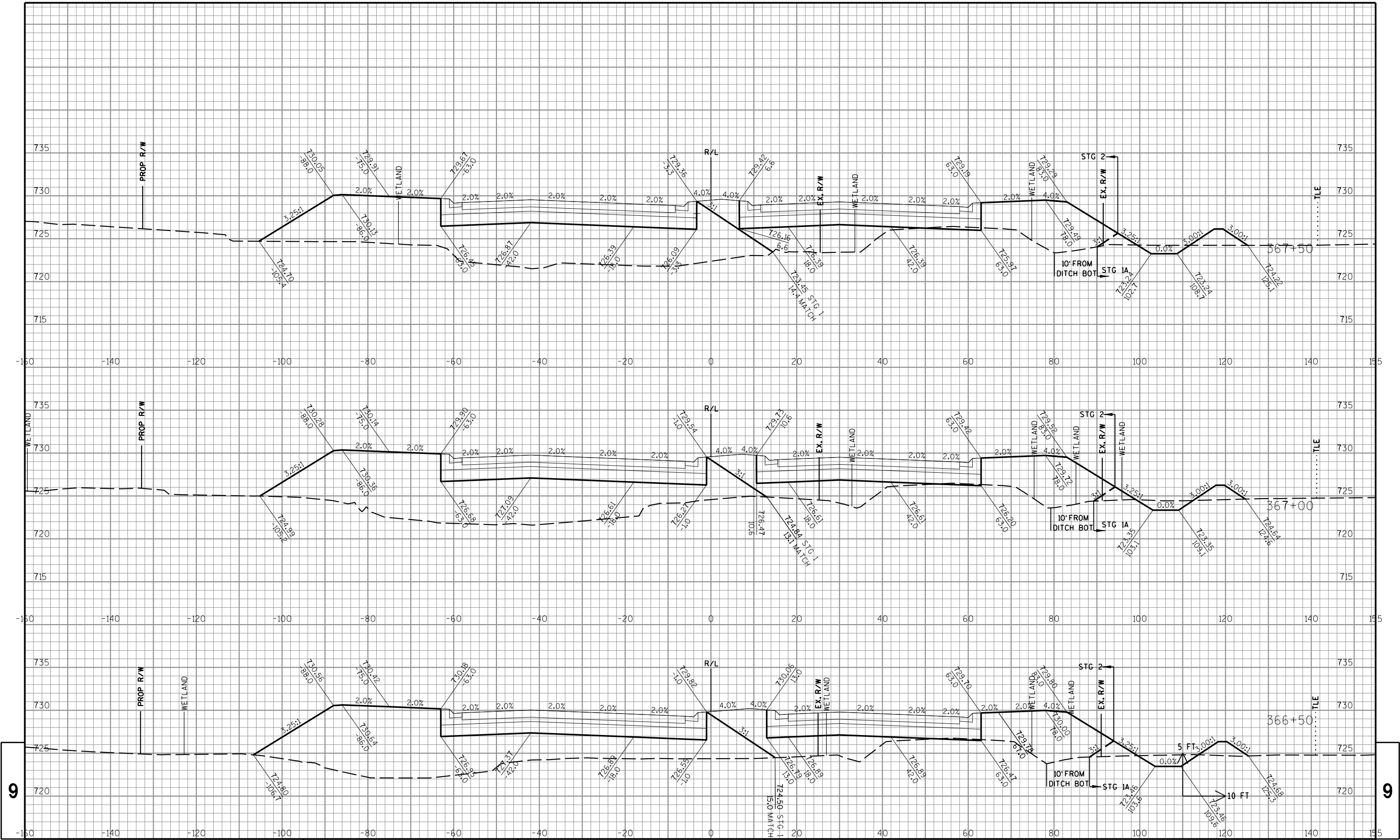
PROJECT 3763-00-73
CTH KR STAGE 2

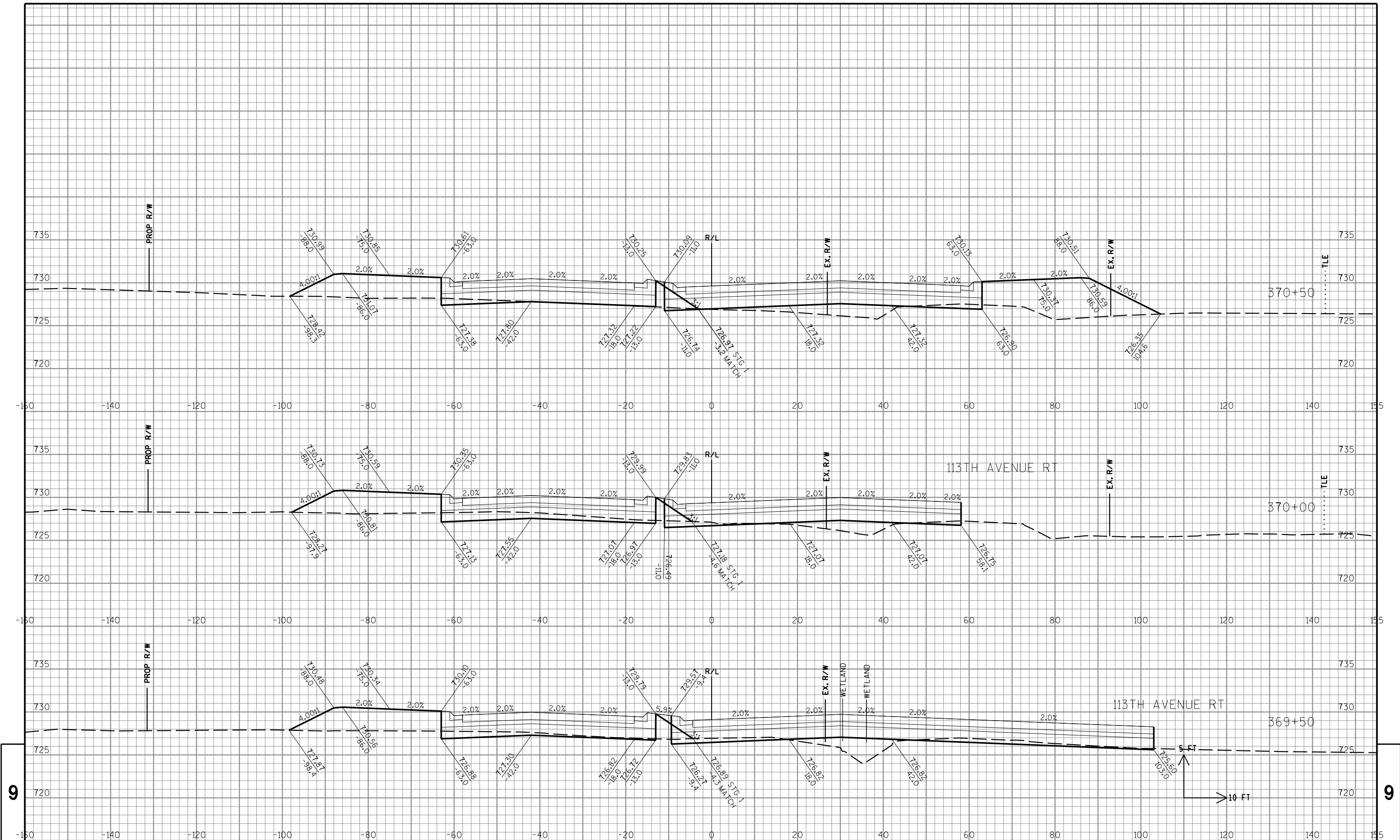
STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
440+50	44050.00	50.00	90	72	0	201	126	0	19269	43376	0	-24107
441+00	44100.00	50.00	90	74	0	167	135	0	19436	43511	0	-24075
441+50	44150.00	50.00	75	76	0	153	139	0	19588	43650	0	-24062
442+00	44200.00	50.00	60	83	0	125	147	0	19713	43797	0	-24084
442+50	44250.00	50.00	41	77	0	93	148	0	19806	43945	0	-24139
443+00	44300.00	50.00	49	71	0	83	136	0	19889	44081	0	-24192
443+50	44350.00	50.00	55	69	0	96	129	0	19986	44210	0	-24224
444+00	44400.00	50.00	58	76	0	105	134	0	20090	44344	0	-24253
444+50	44450.00	50.00	17	91	0	69	154	0	20160	44498	0	-24338
445+00	44500.00	50.00	16	123	0	30	198	0	20190	44696	0	-24506
445+50	44550.00	50.00	15	131	0	29	234	0	20219	44930	0	-24712
446+00	44600.00	50.00	2	154	0	16	263	0	20235	45194	0	-24959
446+50	44650.00	50.00	0	188	0	2	317	0	20237	45510	0	-25273
447+00 BK	44700.00	50.00	0	213	0	0	371	0	20235	45565	0	-25330
Column totals						20237	45881	0				-25330

PROJECT 3763-00-73
100TH AVENUE - STAGE 2

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
22+60 AH	2260.00	0.00	50.2	0	0.0	0	0	0	0	0	0	0
23+00	2300.00	40.00	43.4	0	0.0	69	0	0	69	0	0	69
23+50	2350.00	50.00	31.5	0.5	0.0	69	0	0	139	0	0	138
24+00	2400.00	50.00	16	6.3	0.0	44	6	0	183	7	0	176
24+50	2450.00	50.00	6.2	32.2	0.0	21	36	0	203	42	0	161
25+00	2500.00	50.00	5.7	79.7	0.0	11	104	0	214	146	0	68
25+08 BK	2508.00	8.00	5.2	85.7	0.0	2	25	0	216	171	0	45
Column totals						216	171	0				45







STATE PROJECT NO: 2704-00-77

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

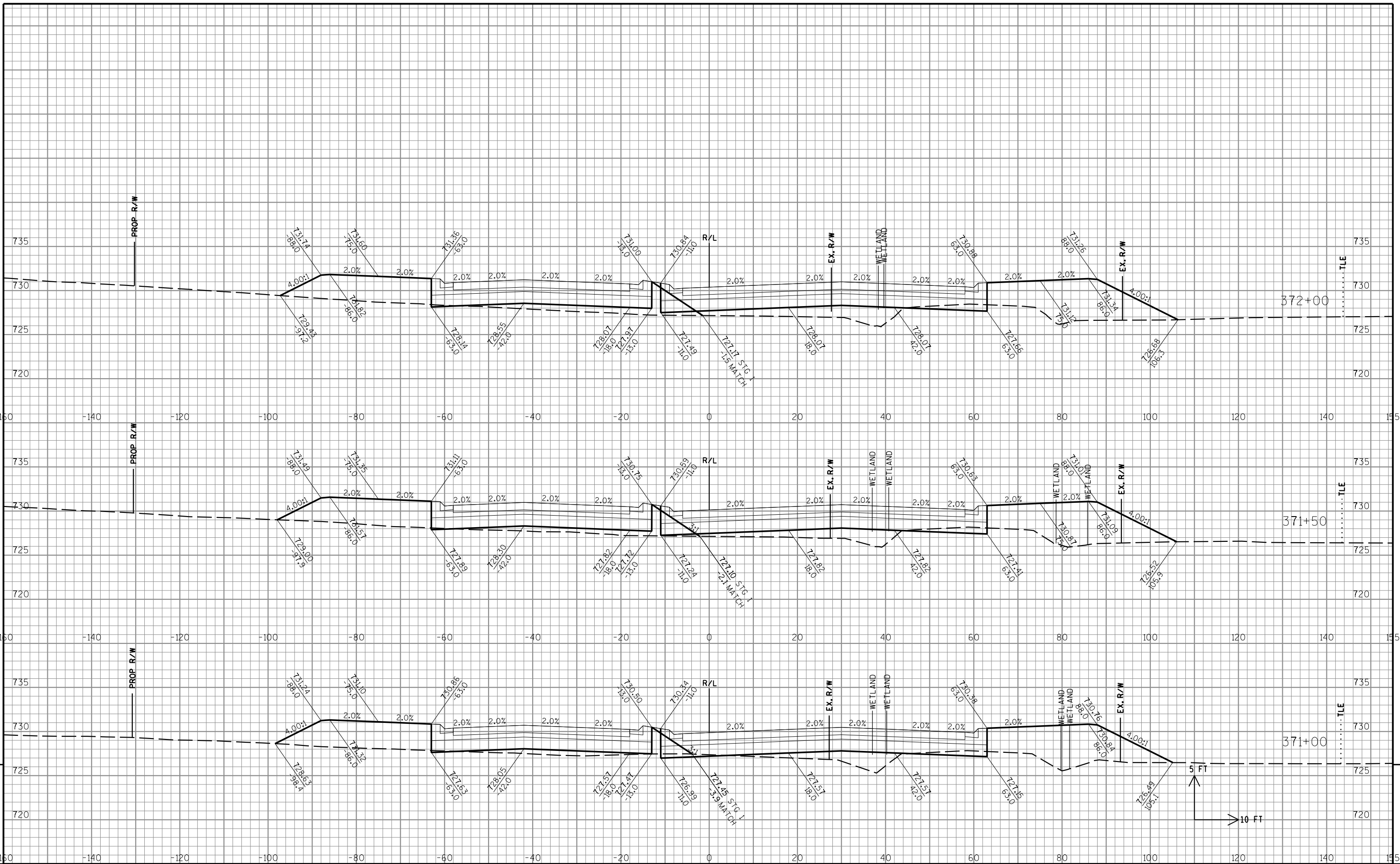
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\27040077\090201_XS_Rev-NoTempExist.dgn

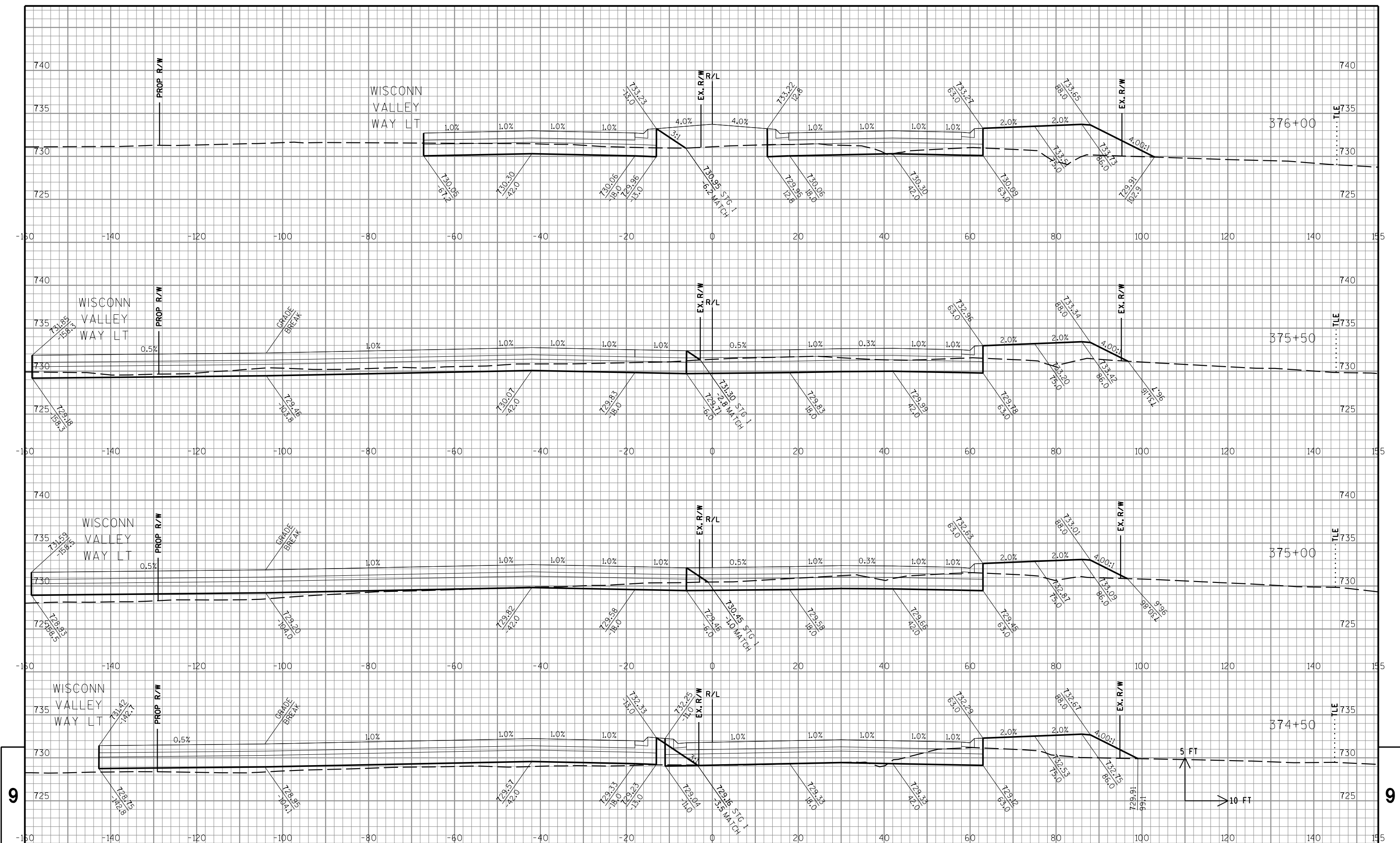
PLOT DATE : 8/21/2018

PLOT BY : ndamro

PLOT NAME :

PLOT SCALE : 1:20





STATE PROJECT NO: 2704-00-77

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

--	--

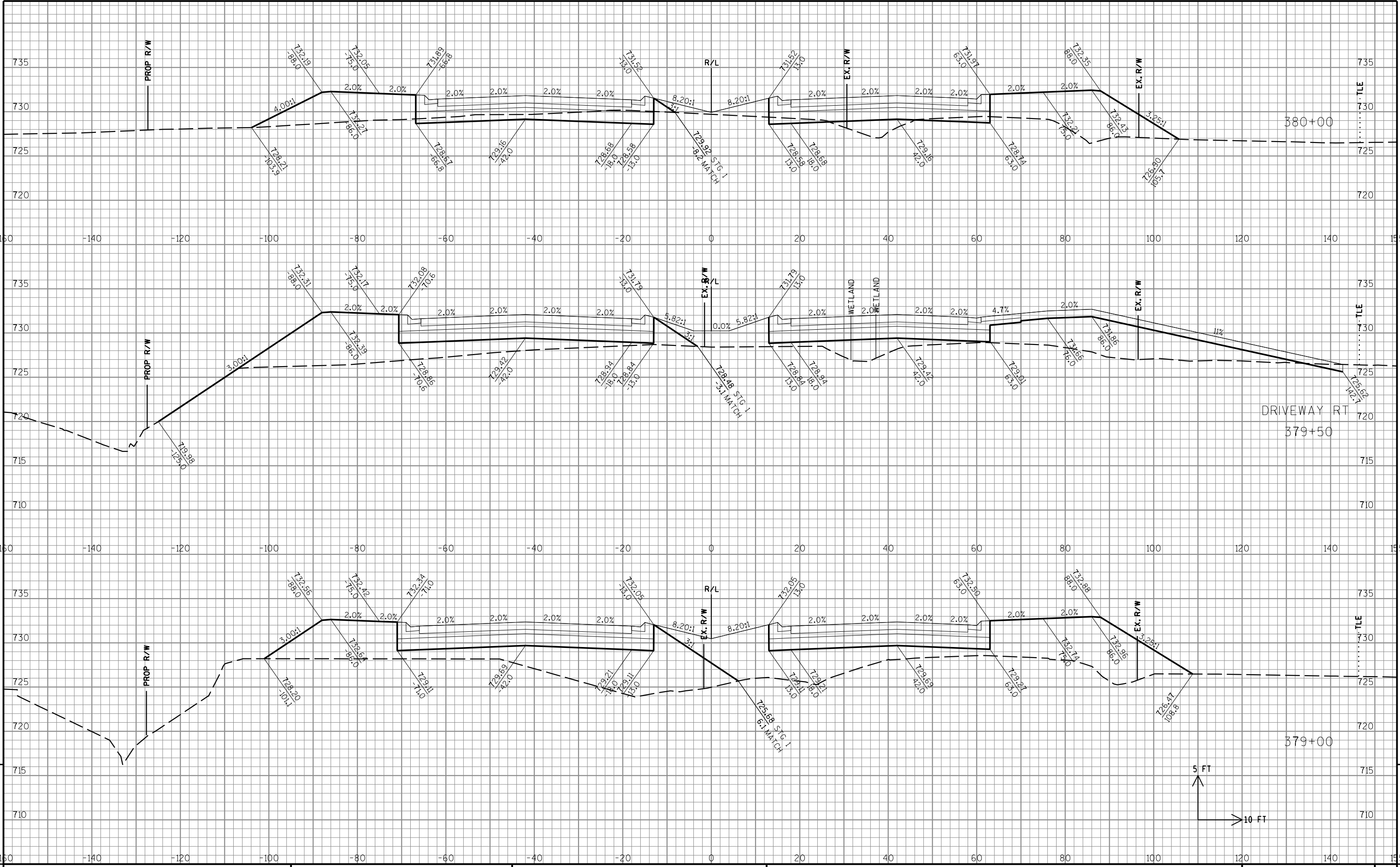
FILE NAME : S:\D0T\D0T_SE\180045_Foxconn_Local_Roads\Design\DGN Files\CTH KR\Plansheets\27040077\090201_XS.dgn

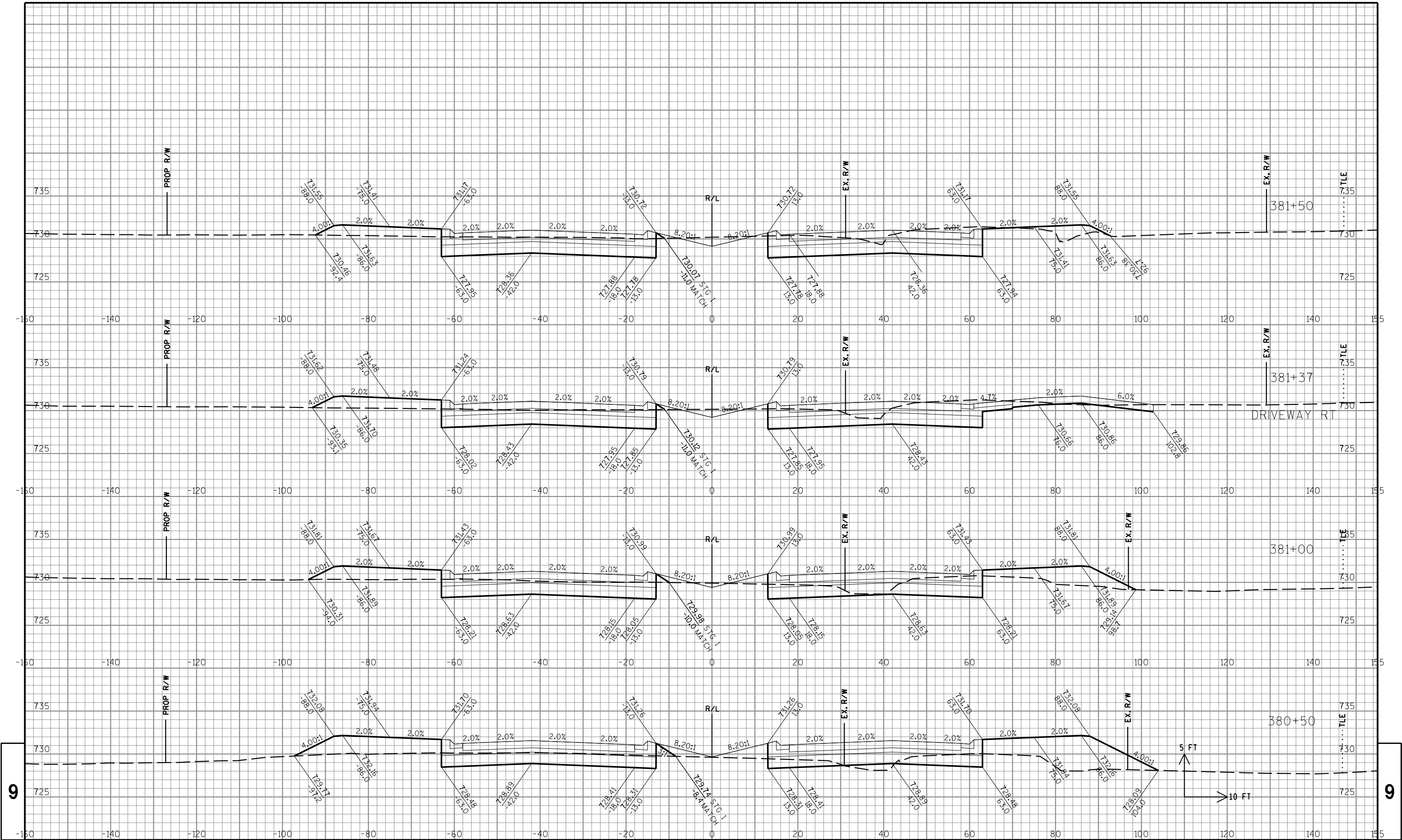
PLOT DATE : 7/31/2018

PLOT BY : wwolak

PLOT NAME :

PLOT SCALE : 1:20





STATE PROJECT NO: 2704-00-77

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\27040077\090201_XS.dgn

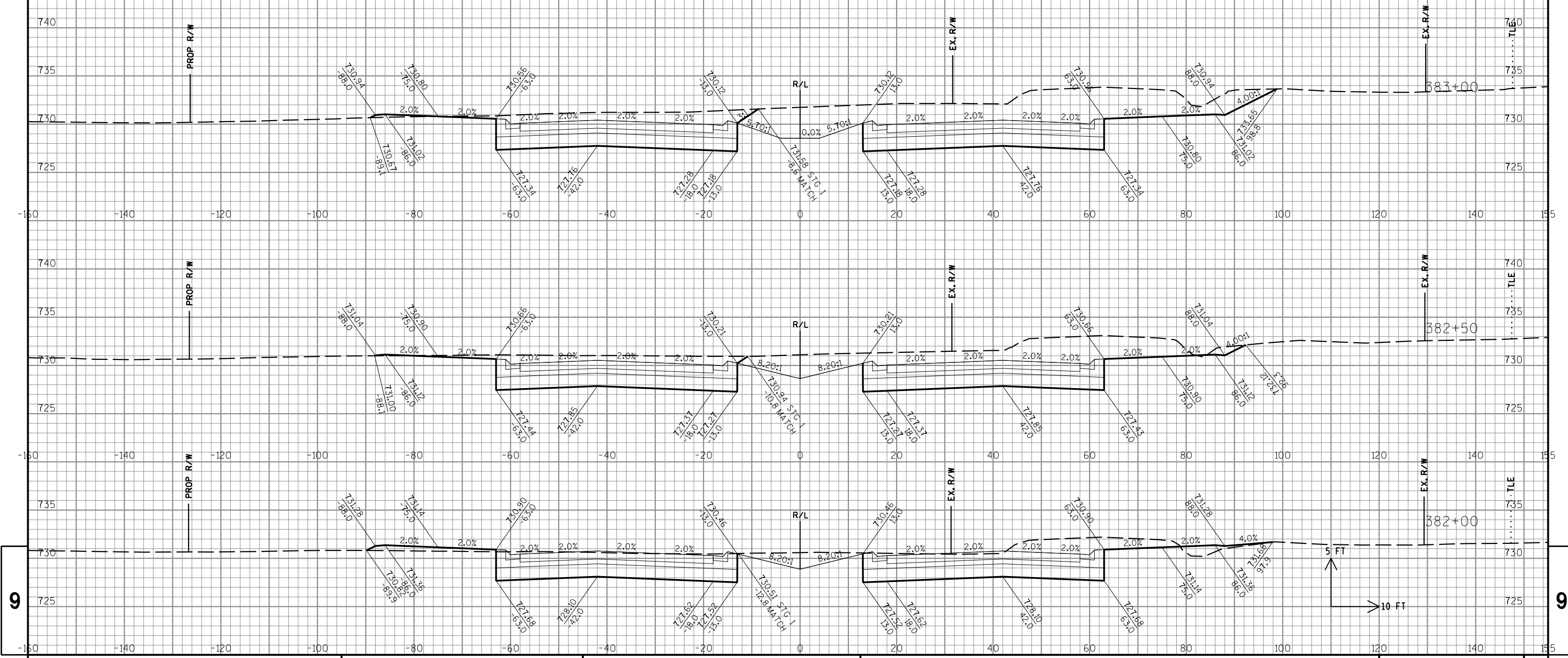
PLOT DATE : 7/31/2018

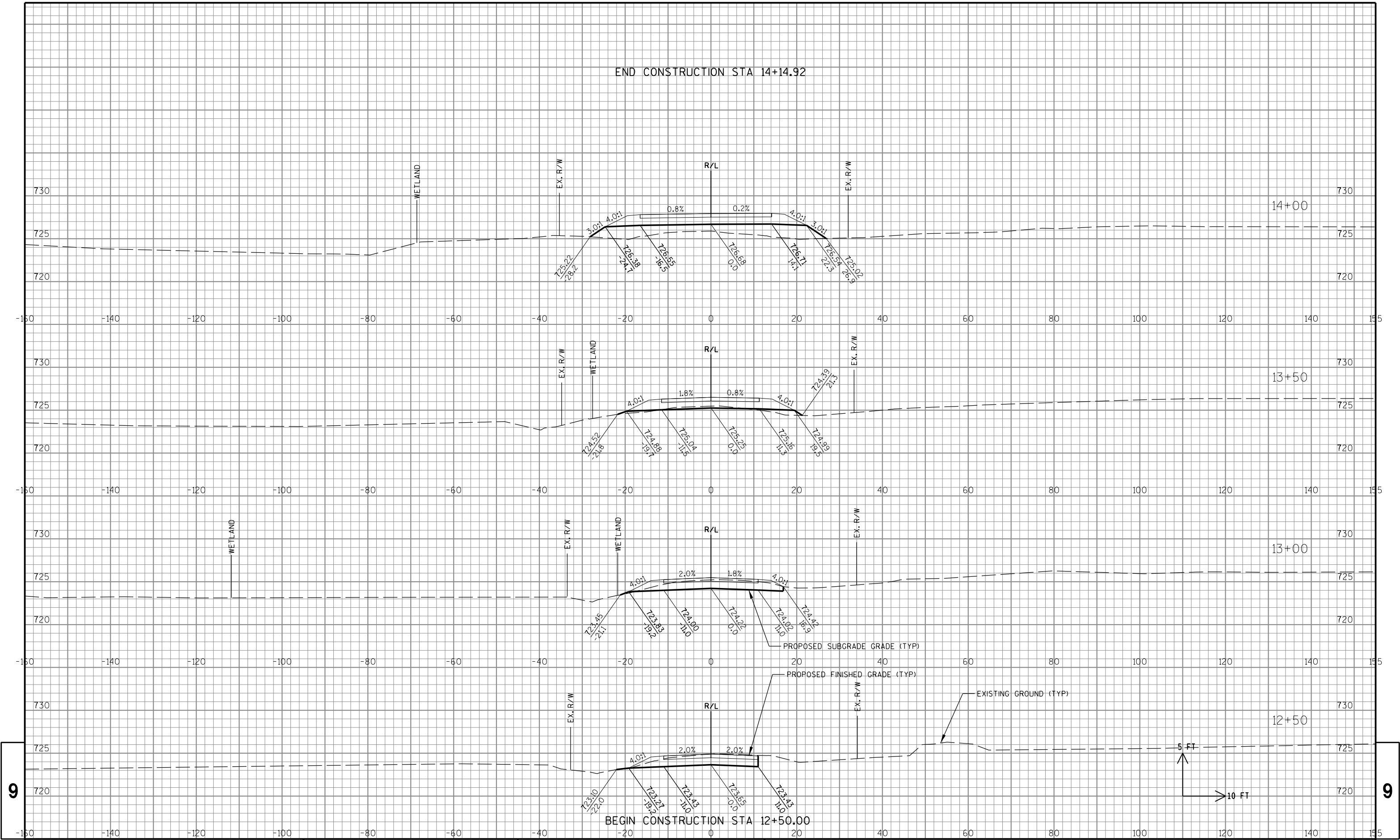
PLOT BY : wwolck

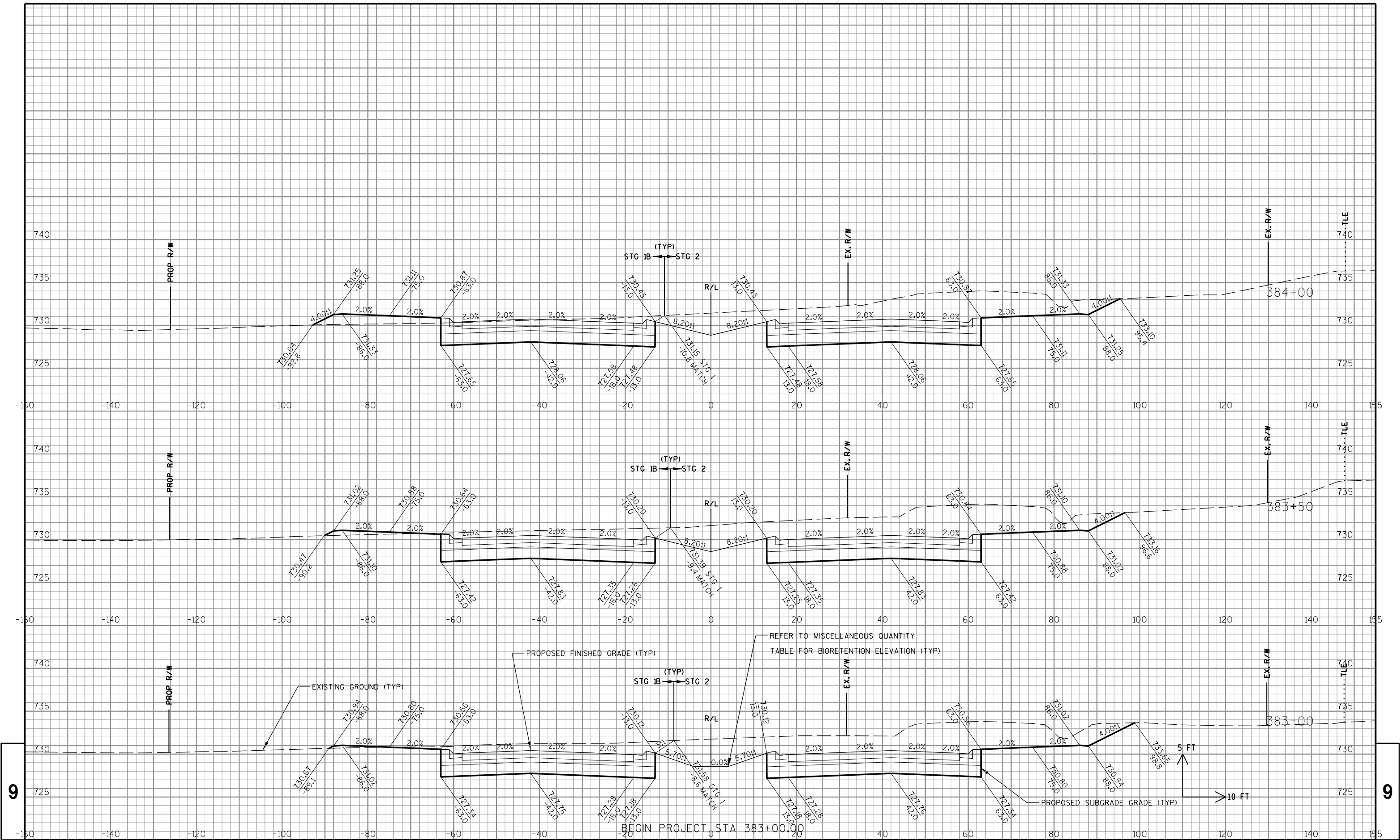
PLOT NAME :

PLOT SCALE : 1:20

END PROJECT STA 383+00.00







STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

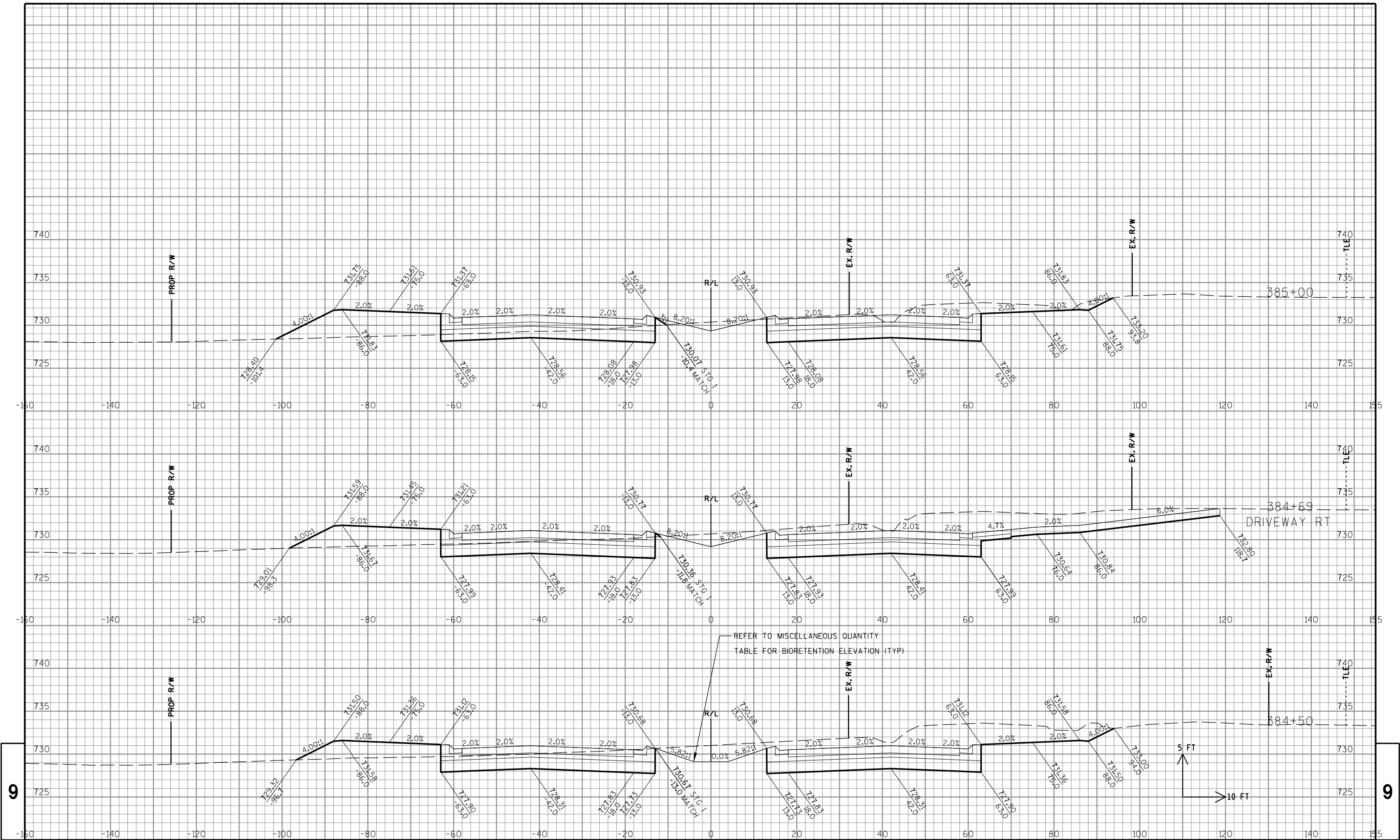
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201_XS.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:20



STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

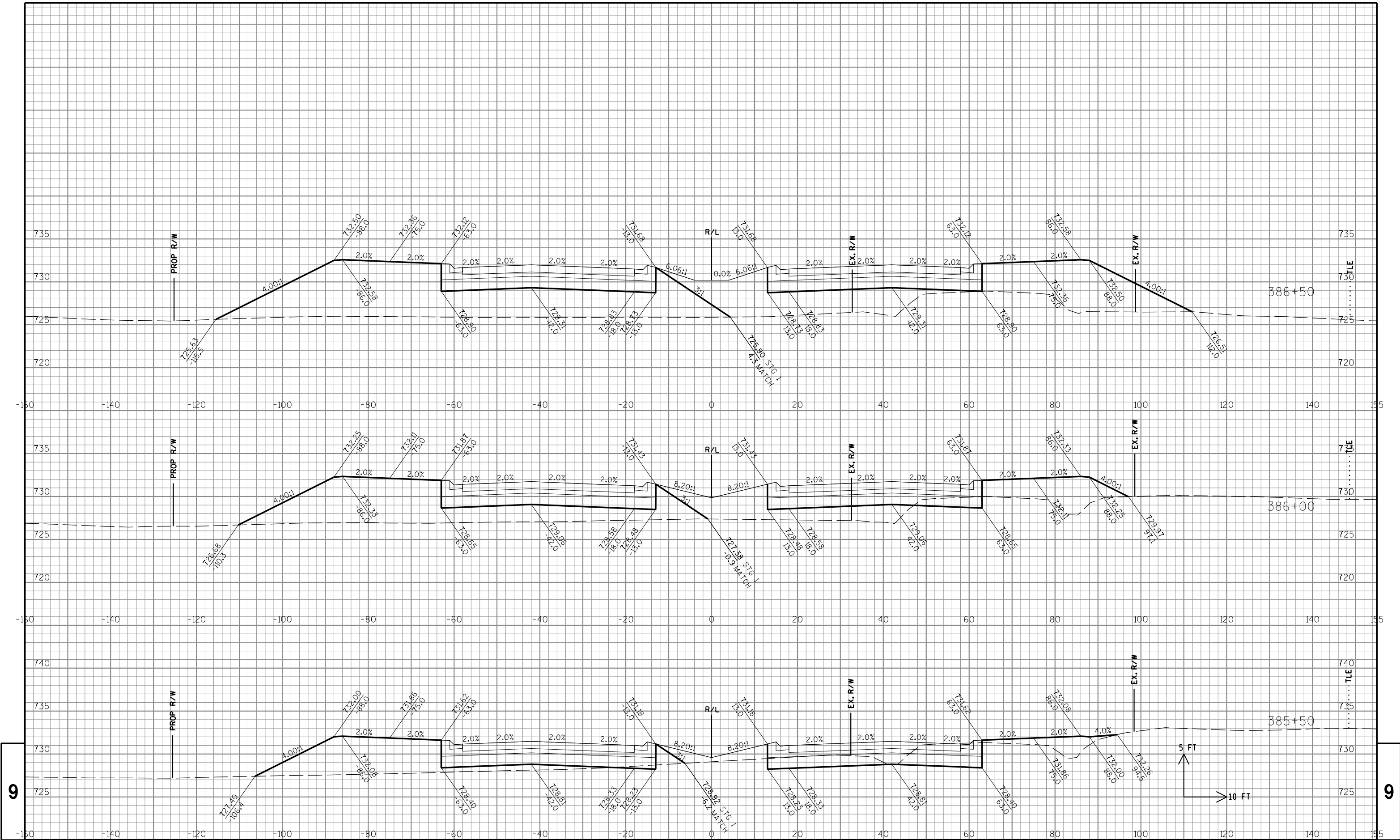
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201_XS.dgn

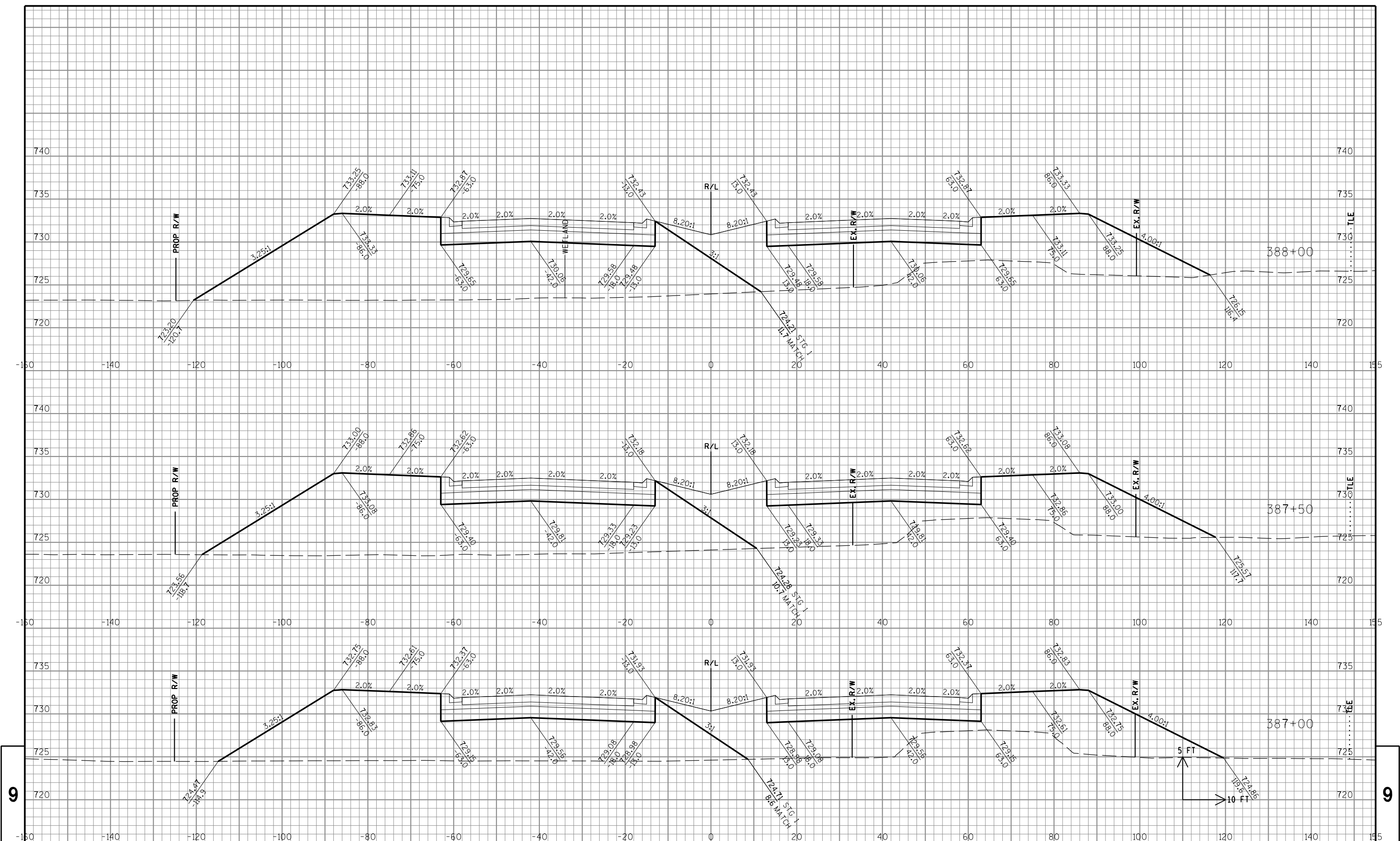
PLOT DATE : 7/31/2018

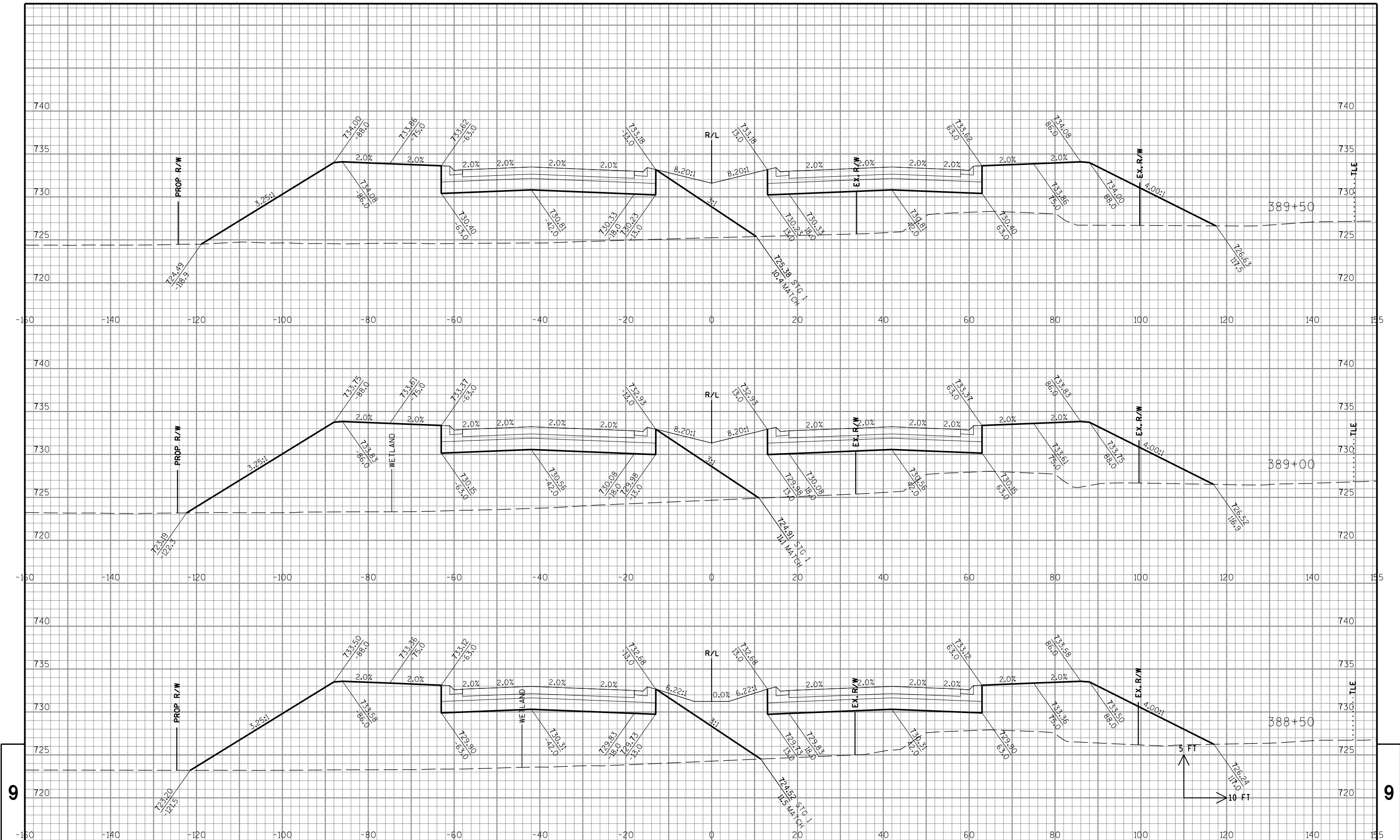
PLOT BY : wwolck

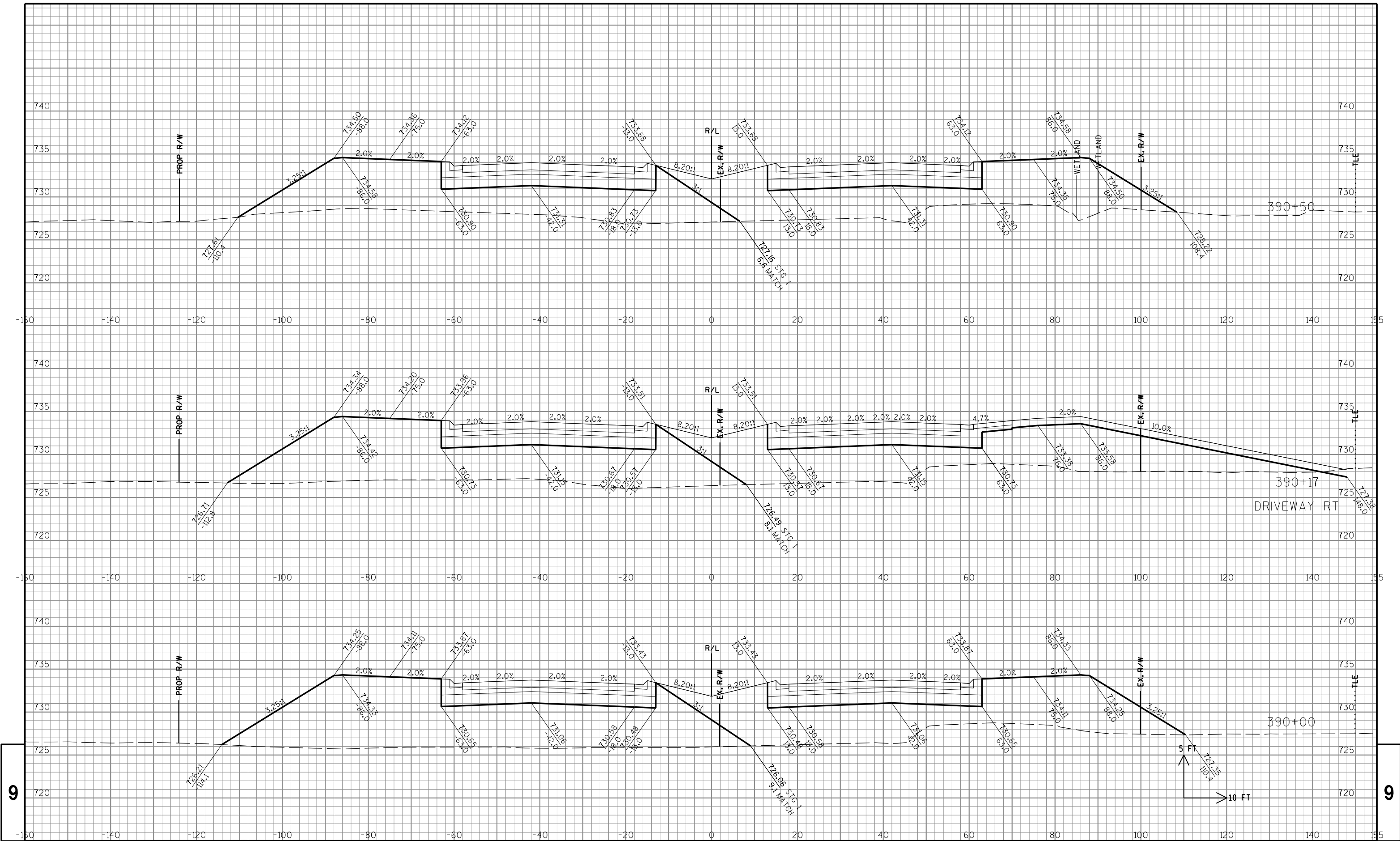
PLOT NAME :

PLOT SCALE : 1:20









STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

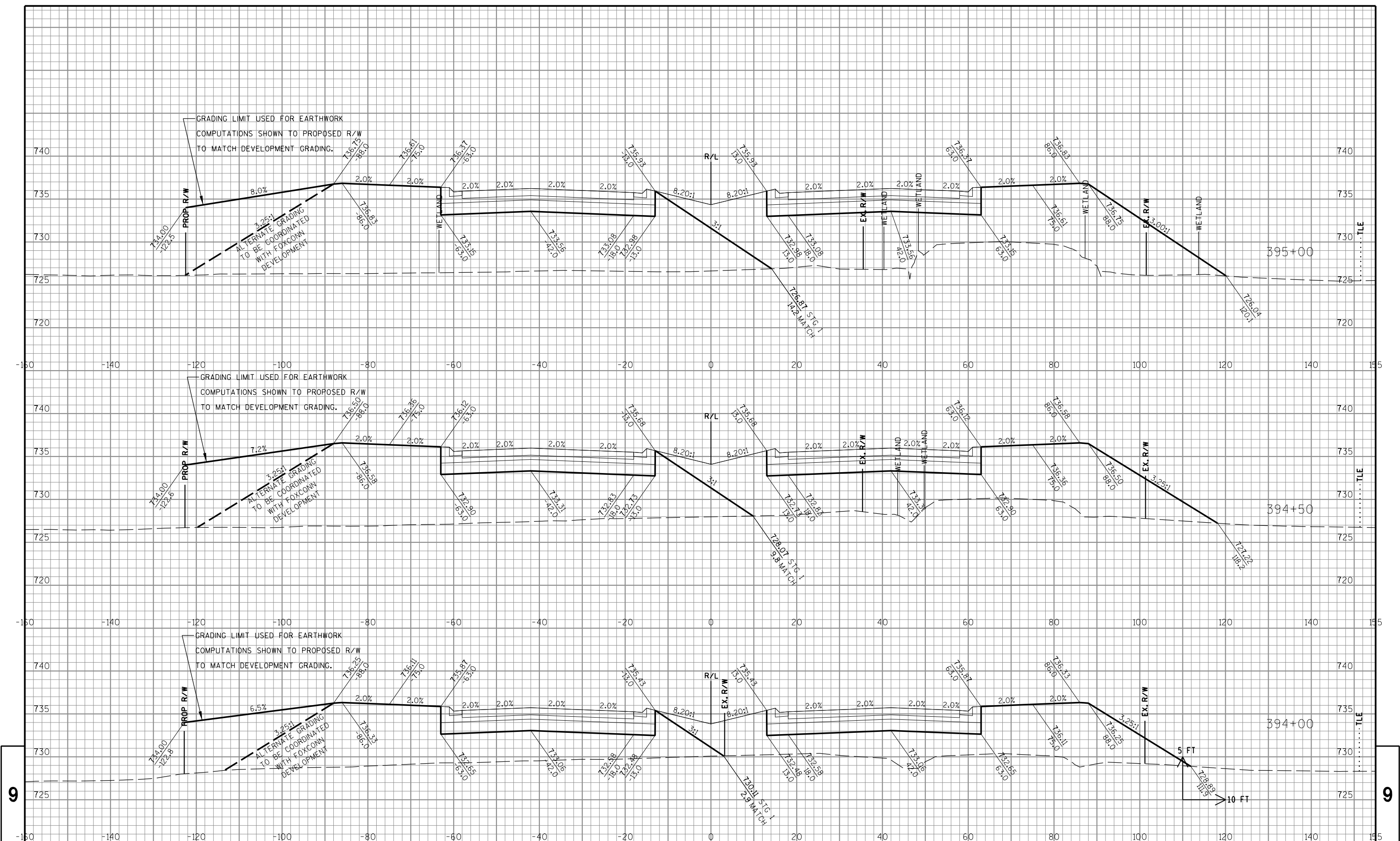
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201_XS.dgn

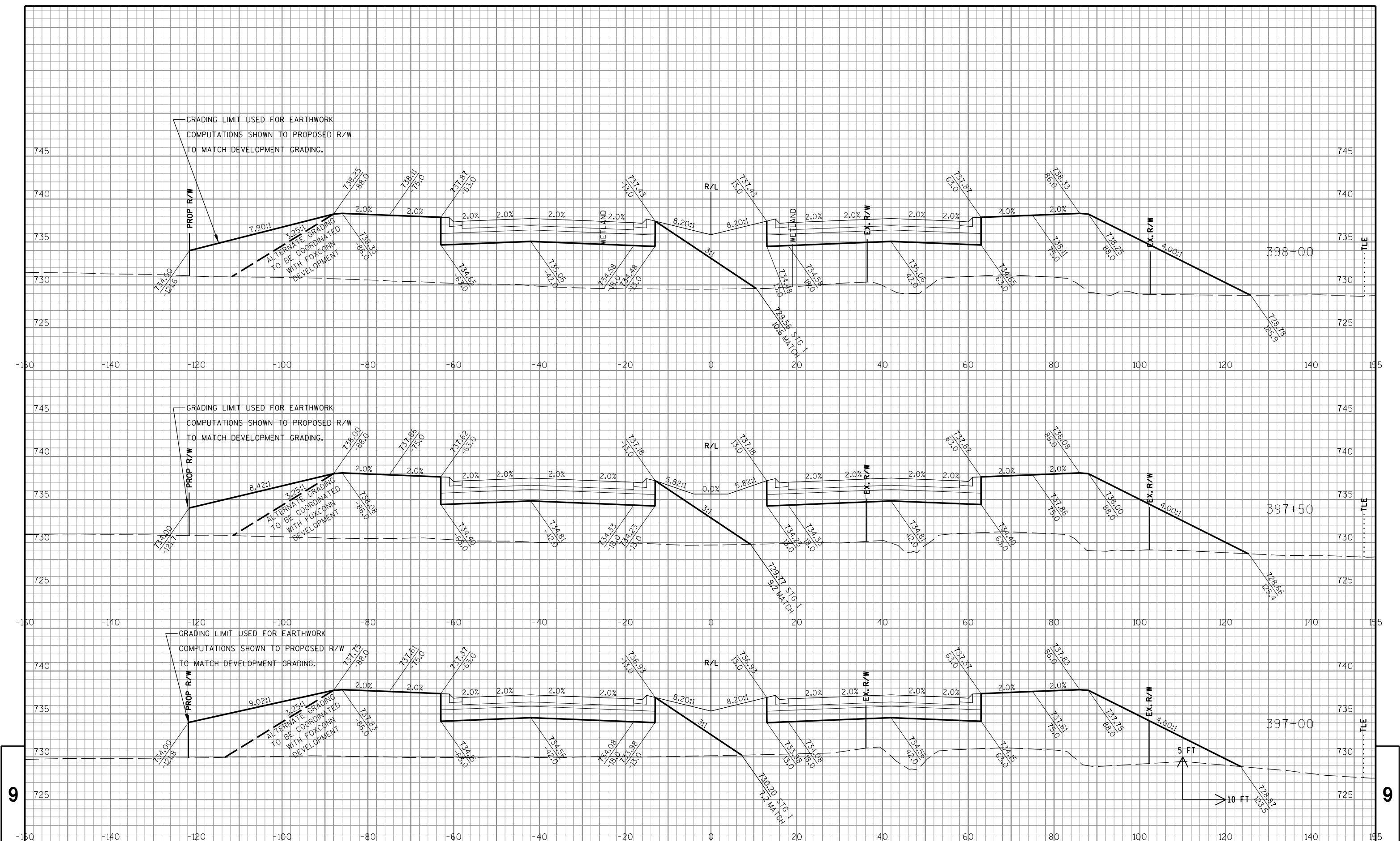
PLOT DATE : 7/31/2018

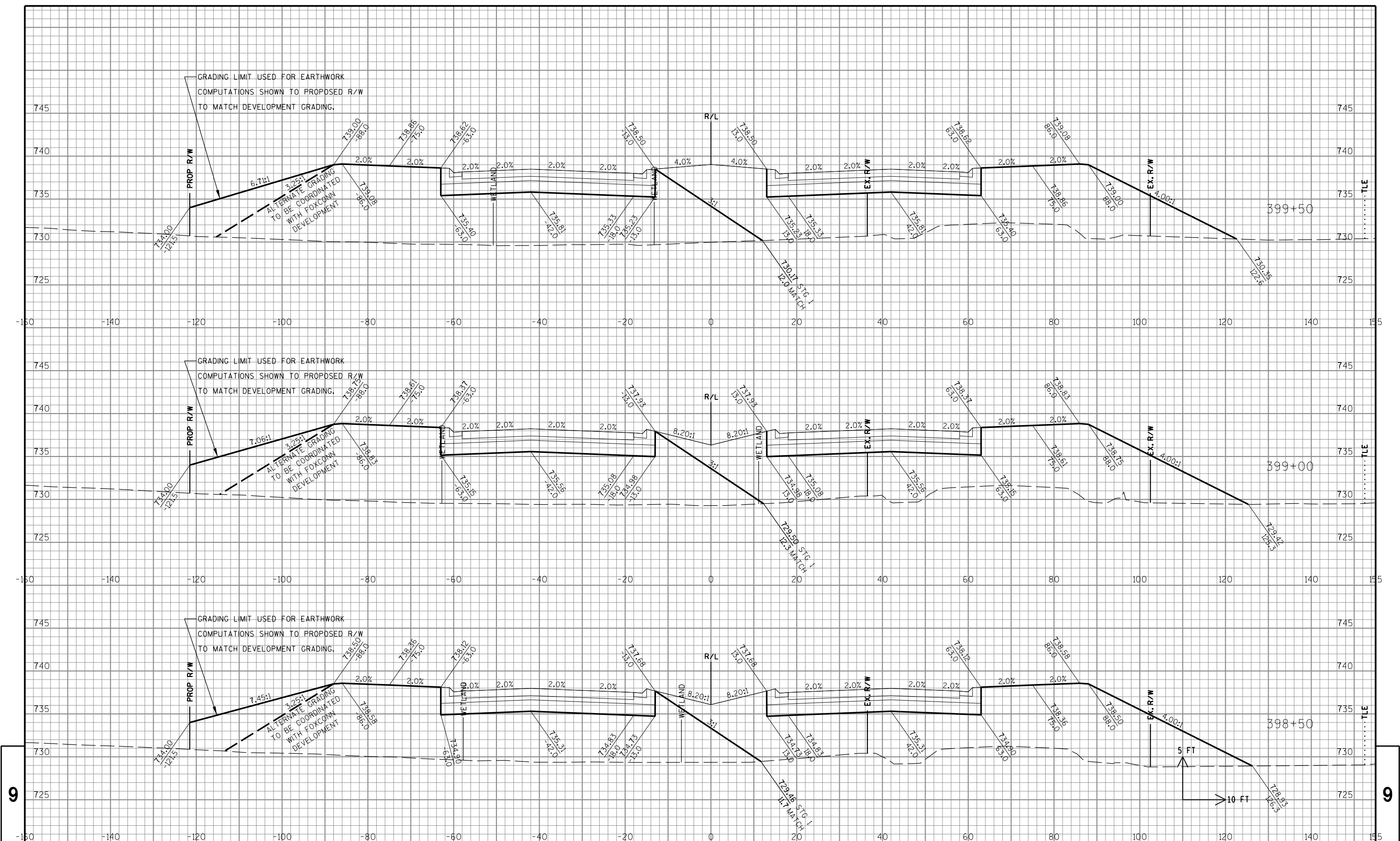
PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:20

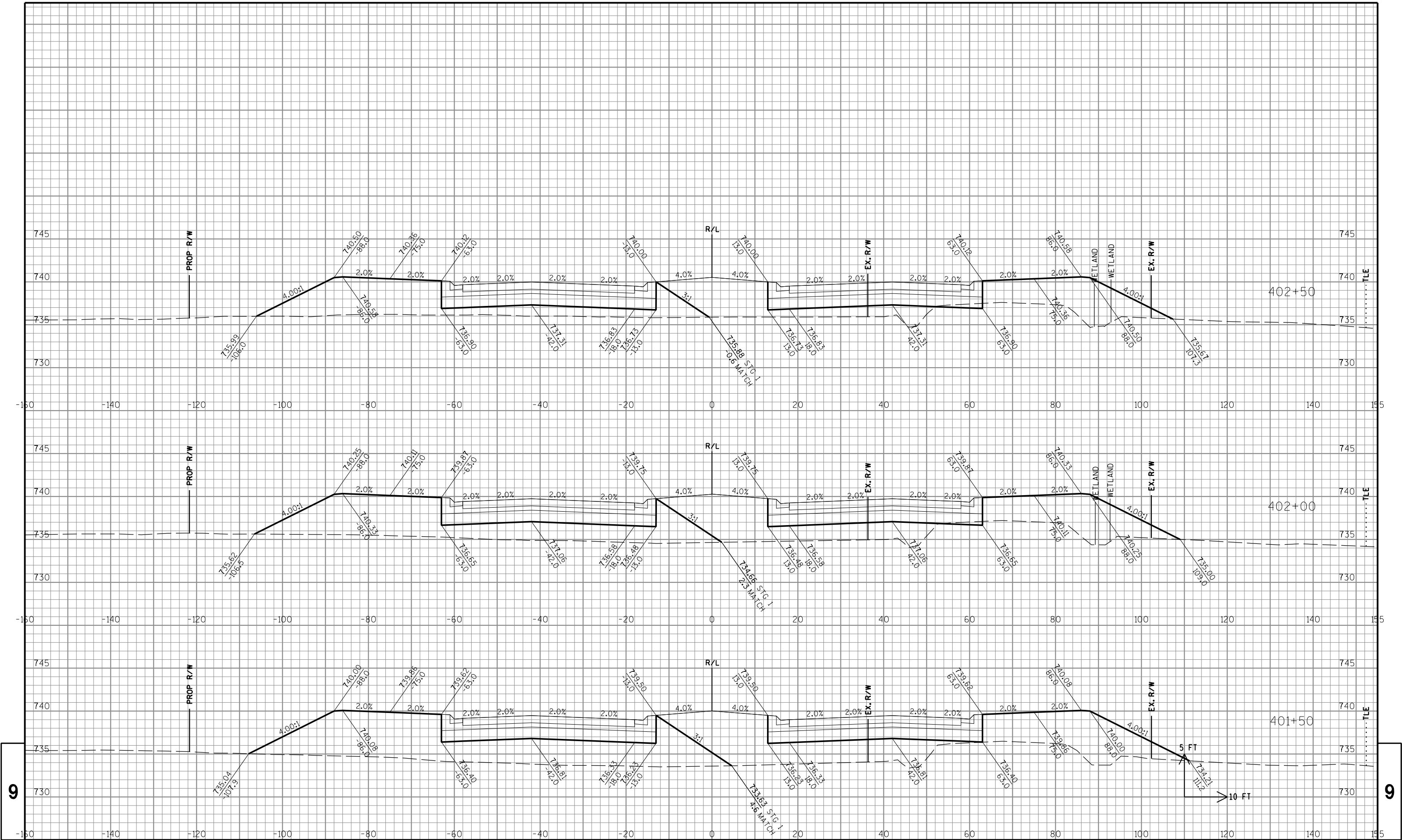






9

9



STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

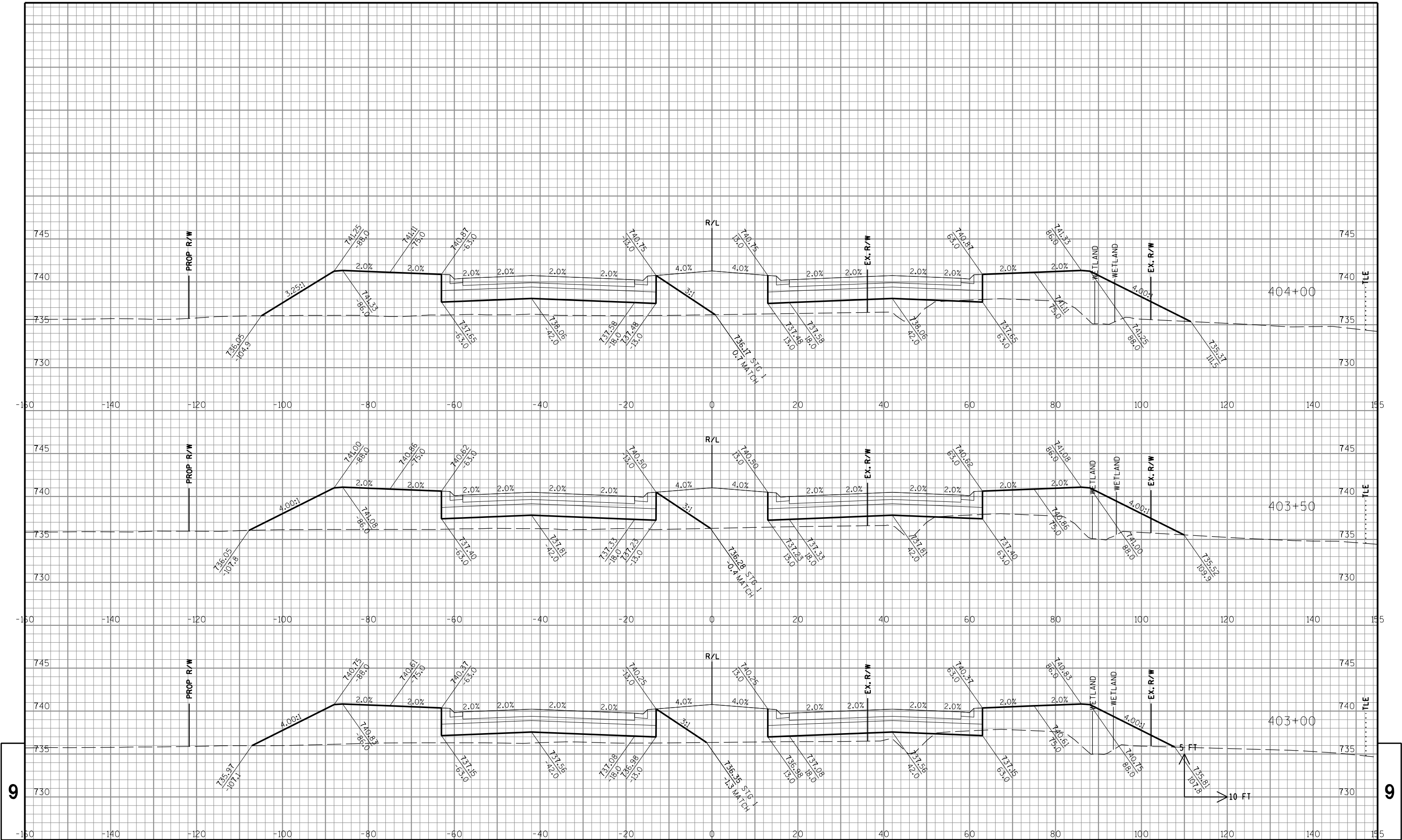
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201_XS.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:20



STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

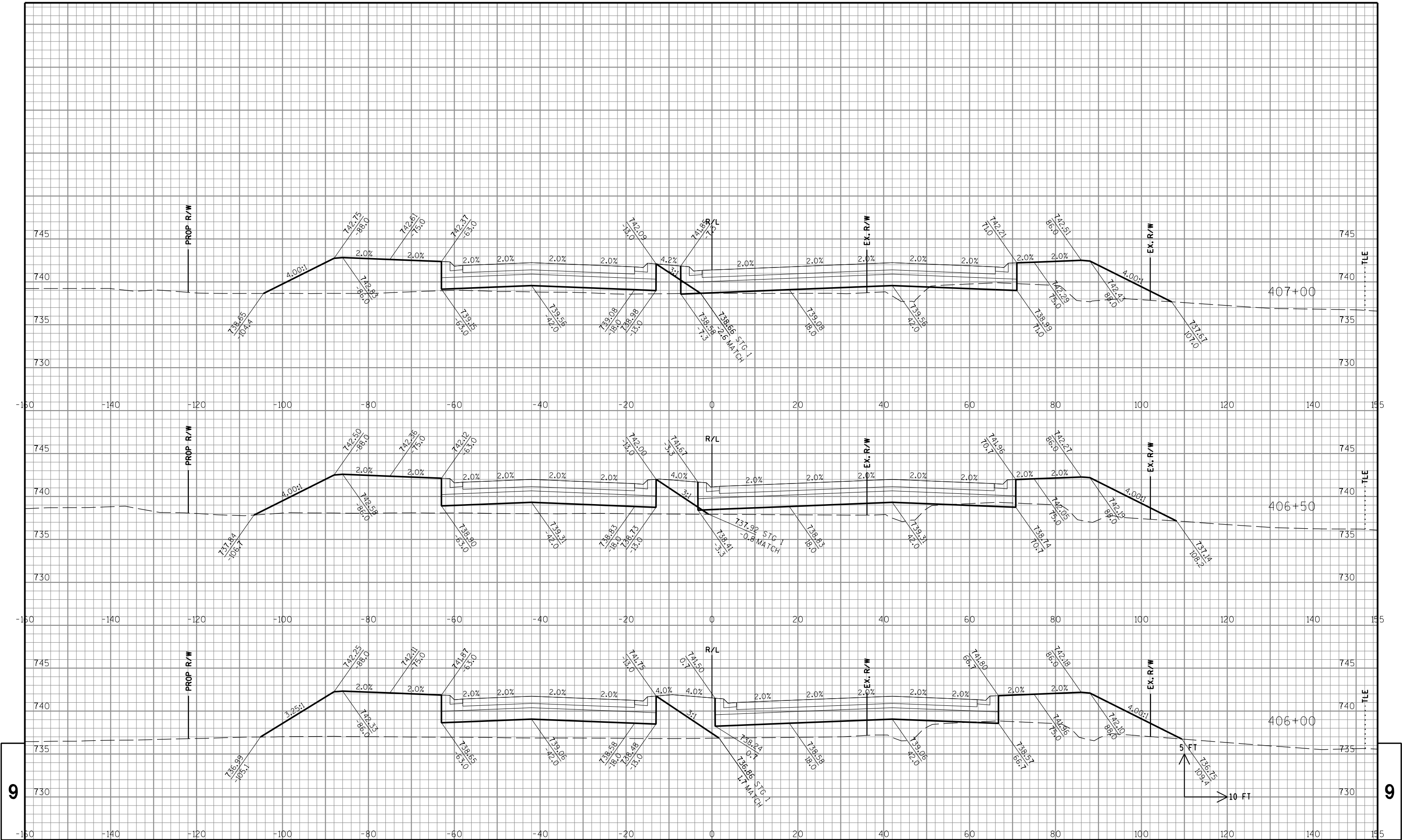
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201_XS.dgn

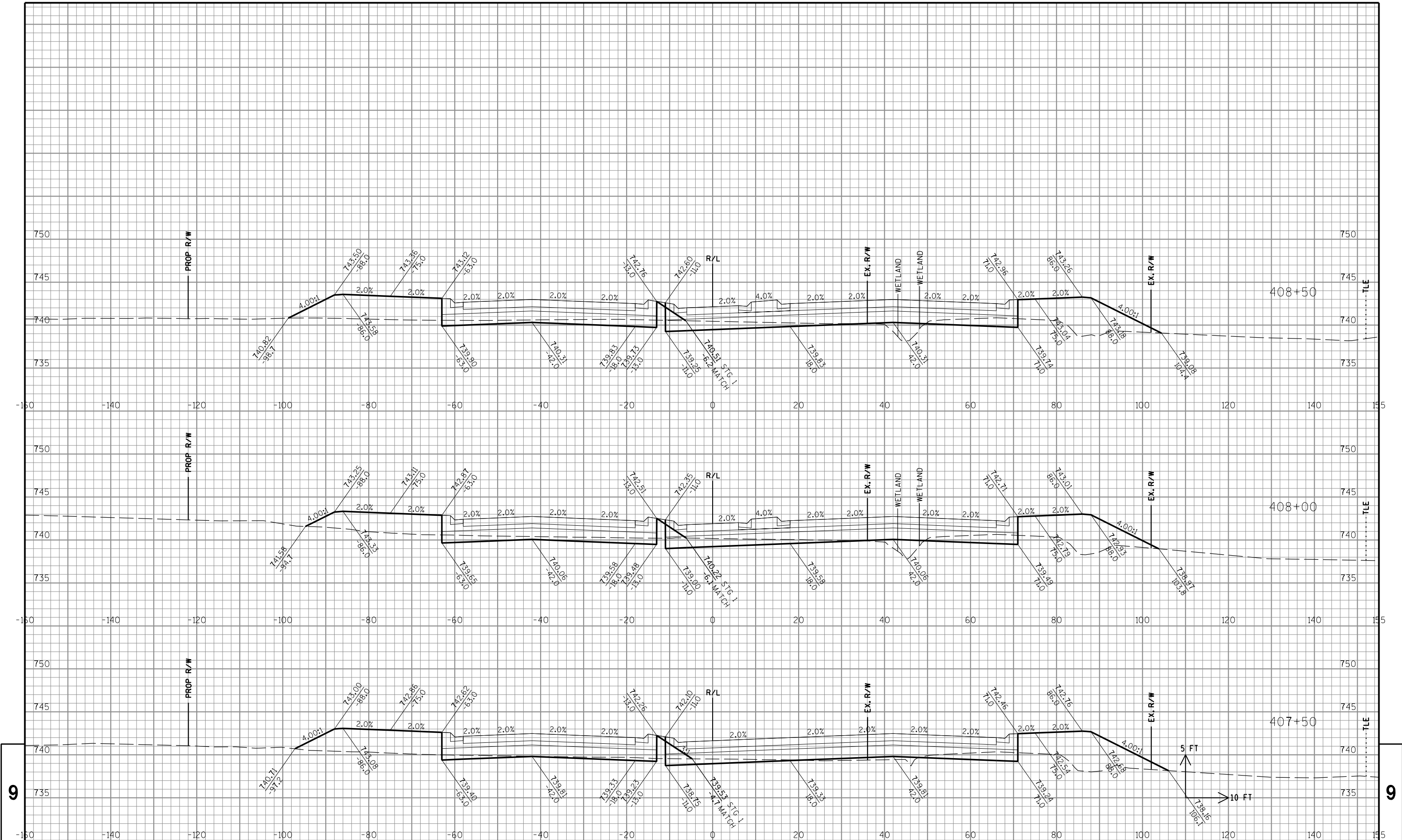
PLOT DATE : 7/31/2018

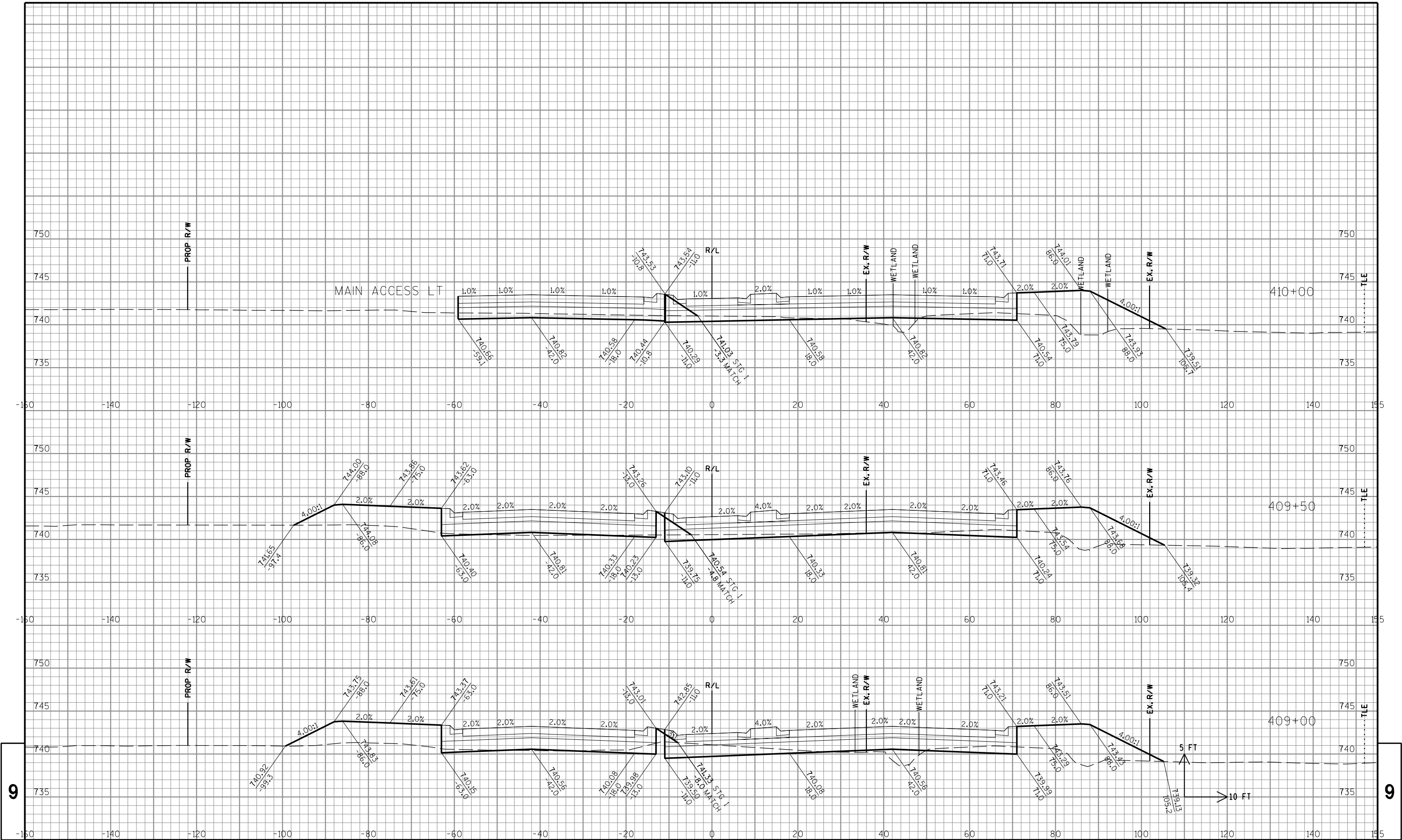
PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:20







STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

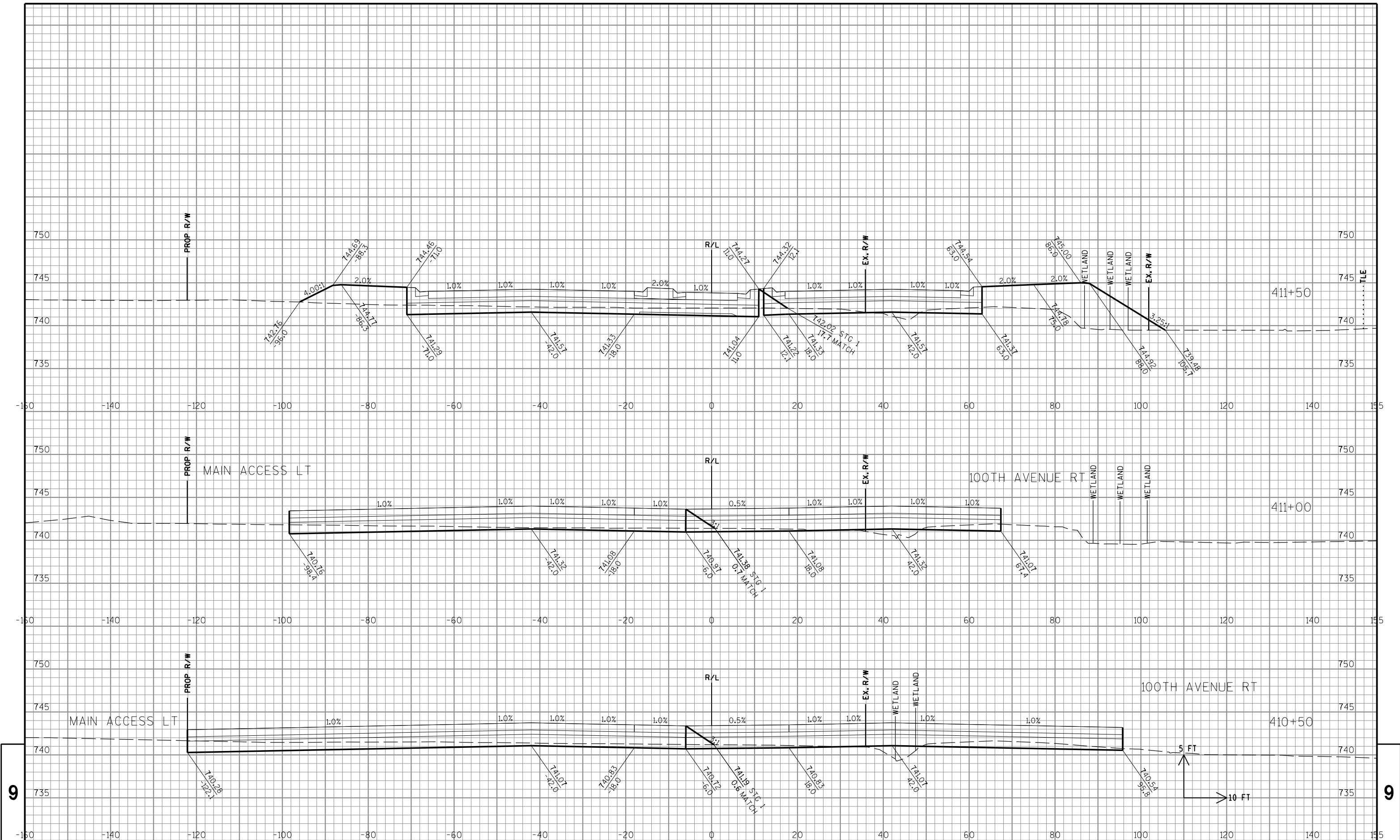
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201_XS.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:20



STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

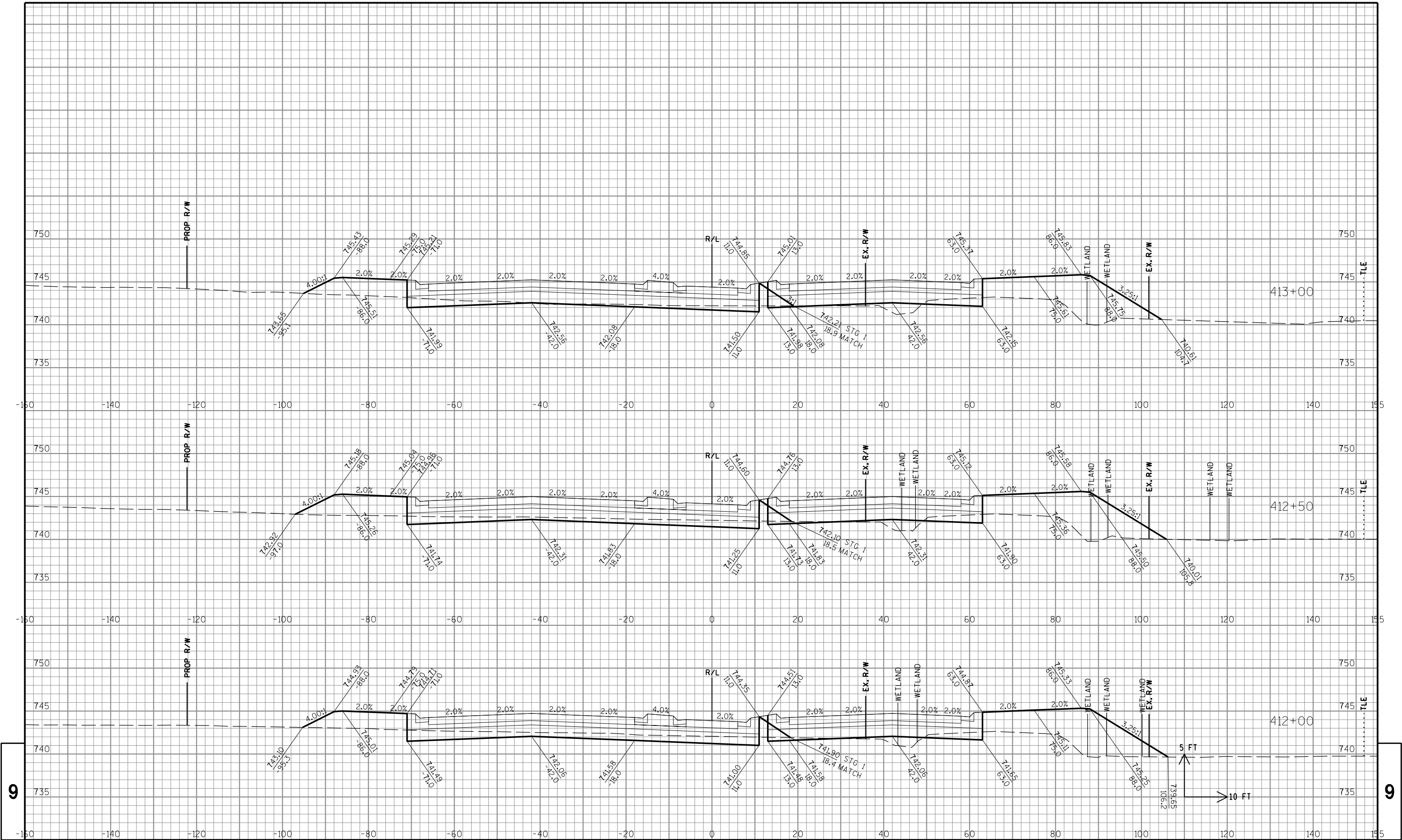
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201.XS.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:20



STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

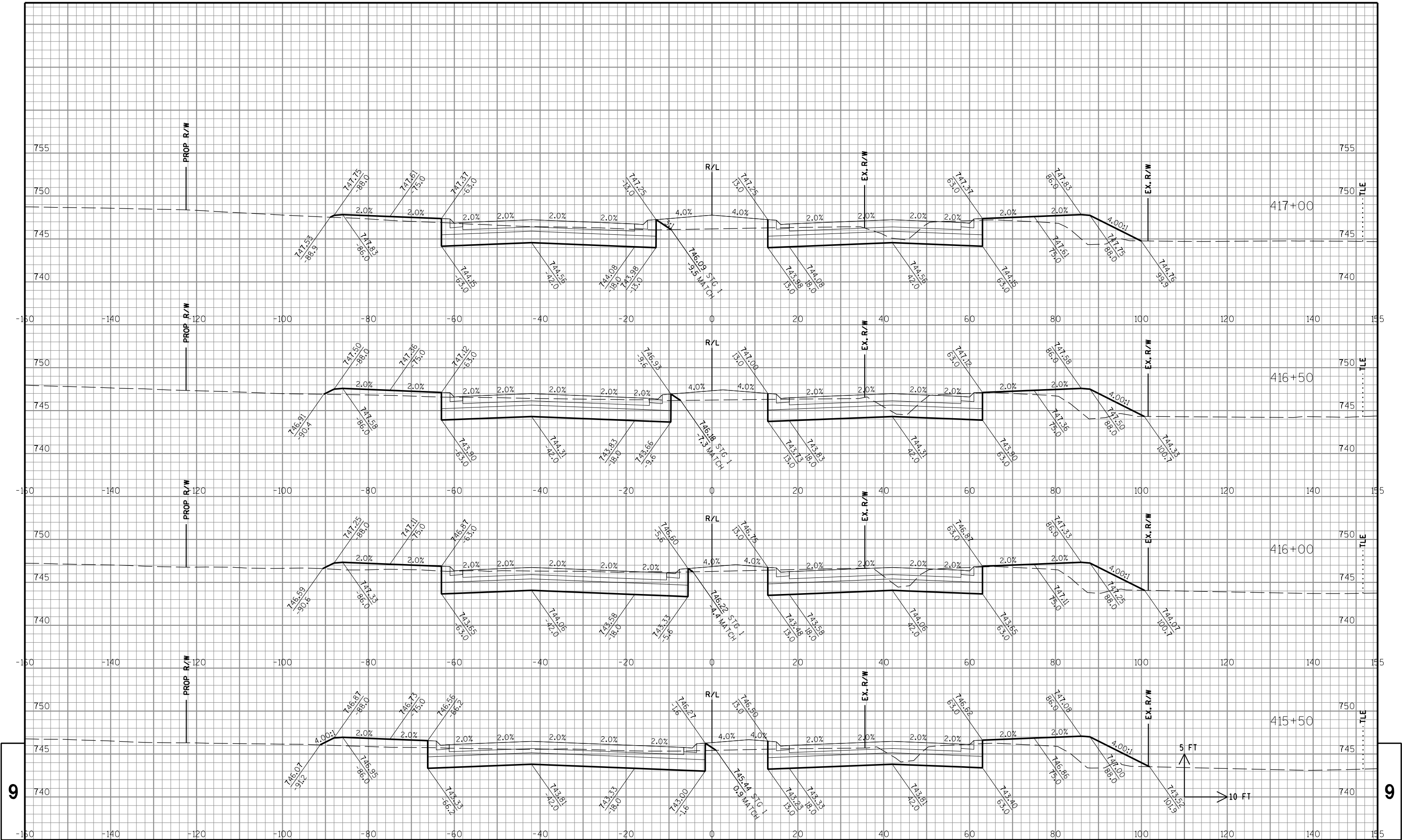
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201.XS.dgn

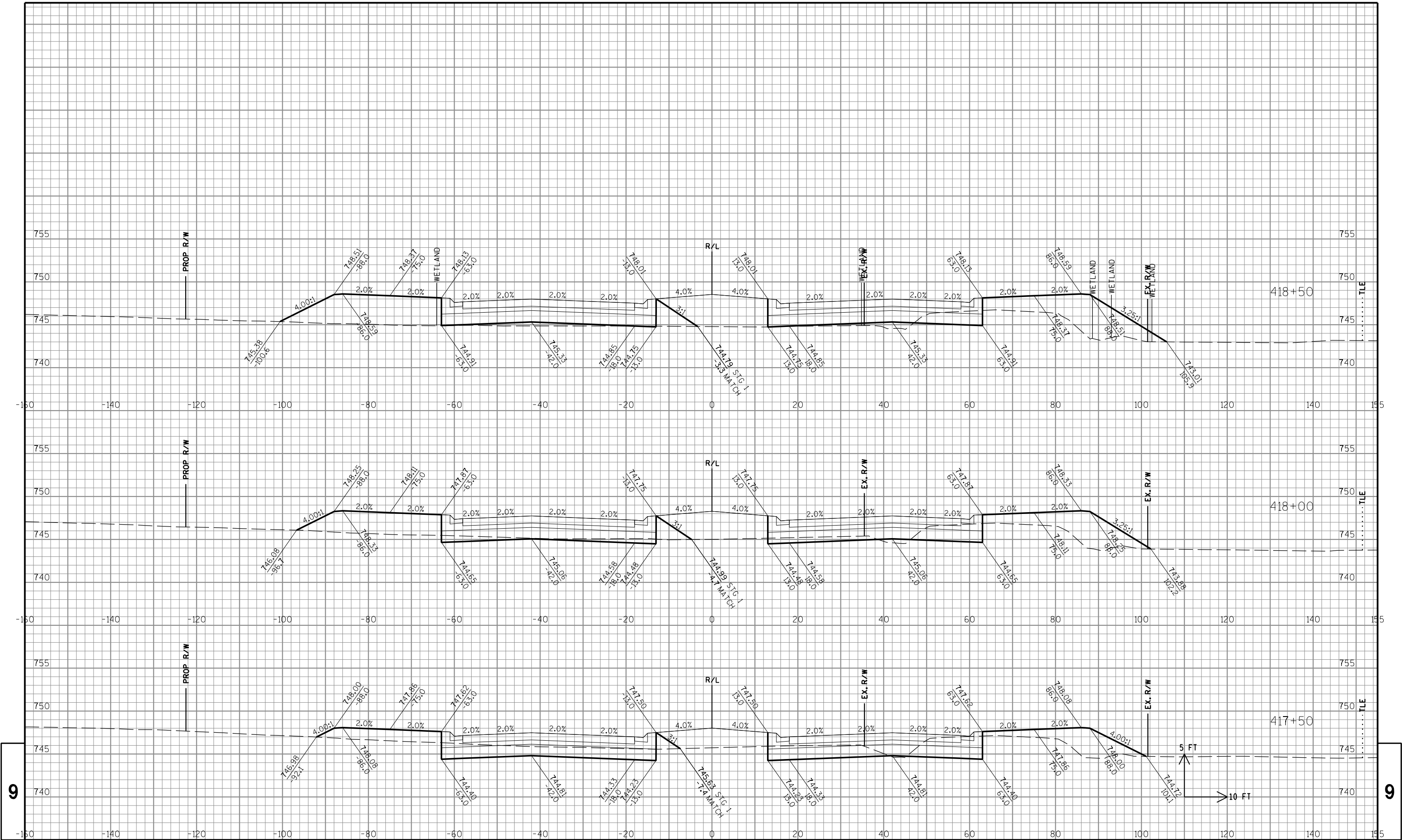
PLOT DATE : 7/31/2018

PLOT BY : wwoiak

PLOT NAME :

PLOT SCALE : 1:20





STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

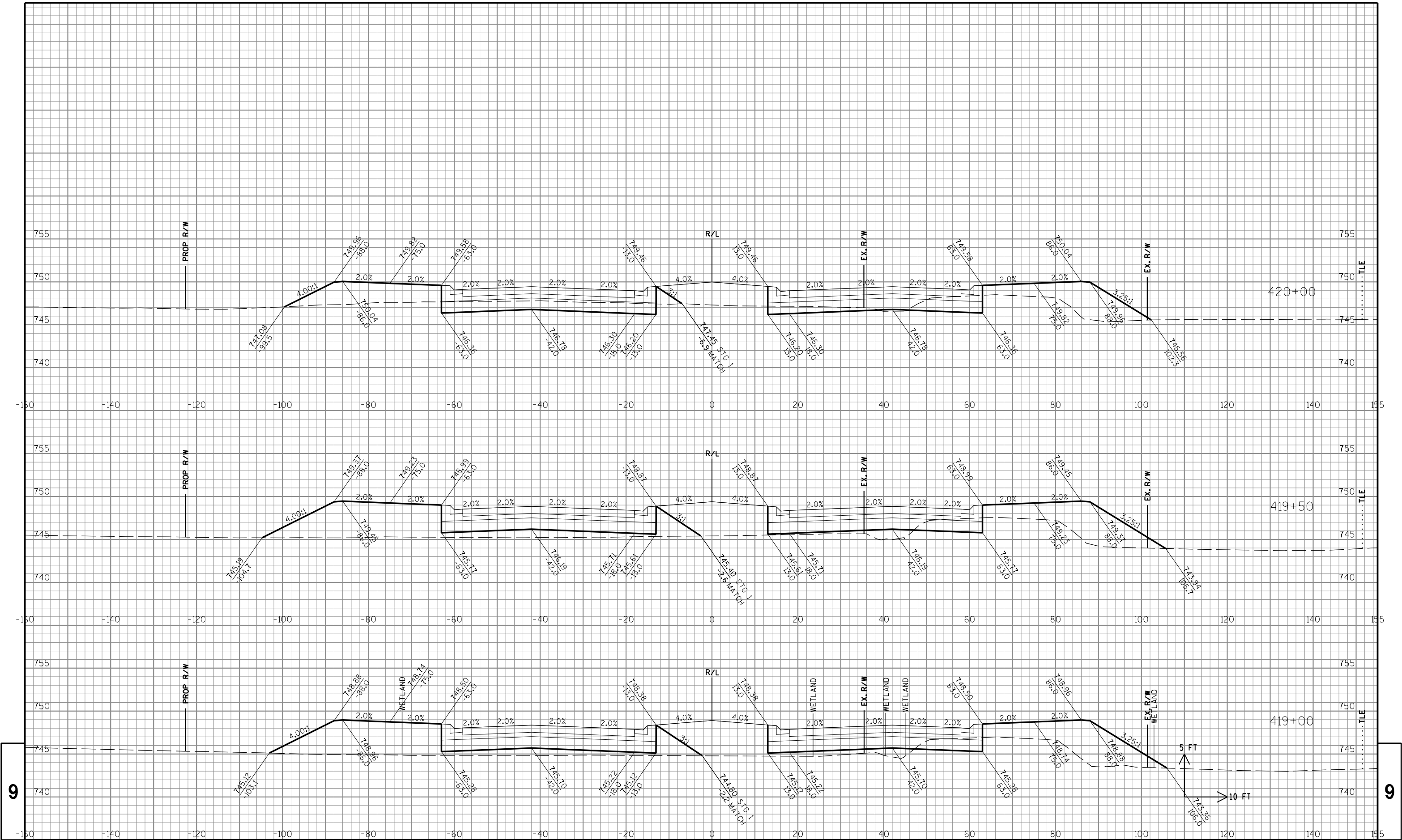
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201.XS.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:20



STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

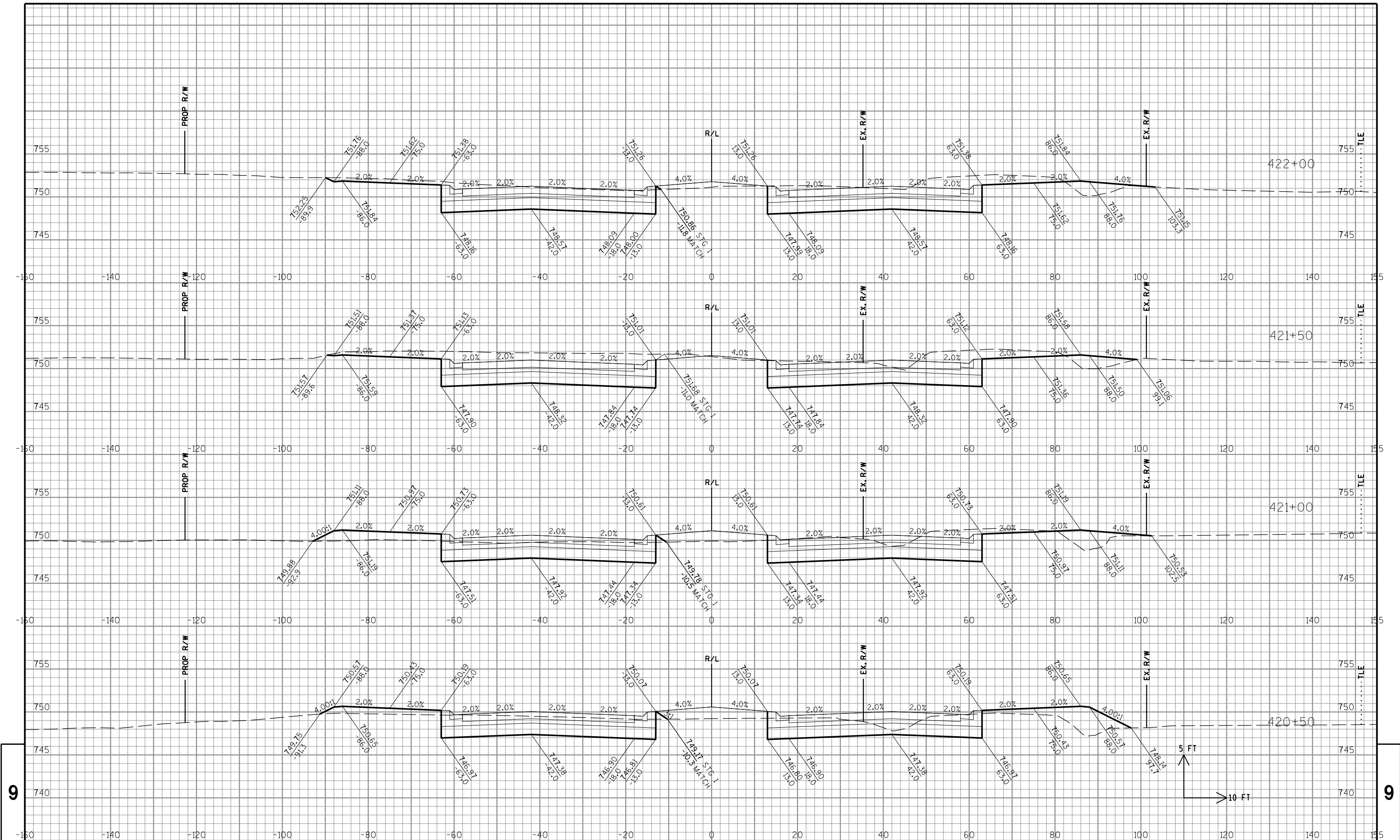
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201.XS.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:20



STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

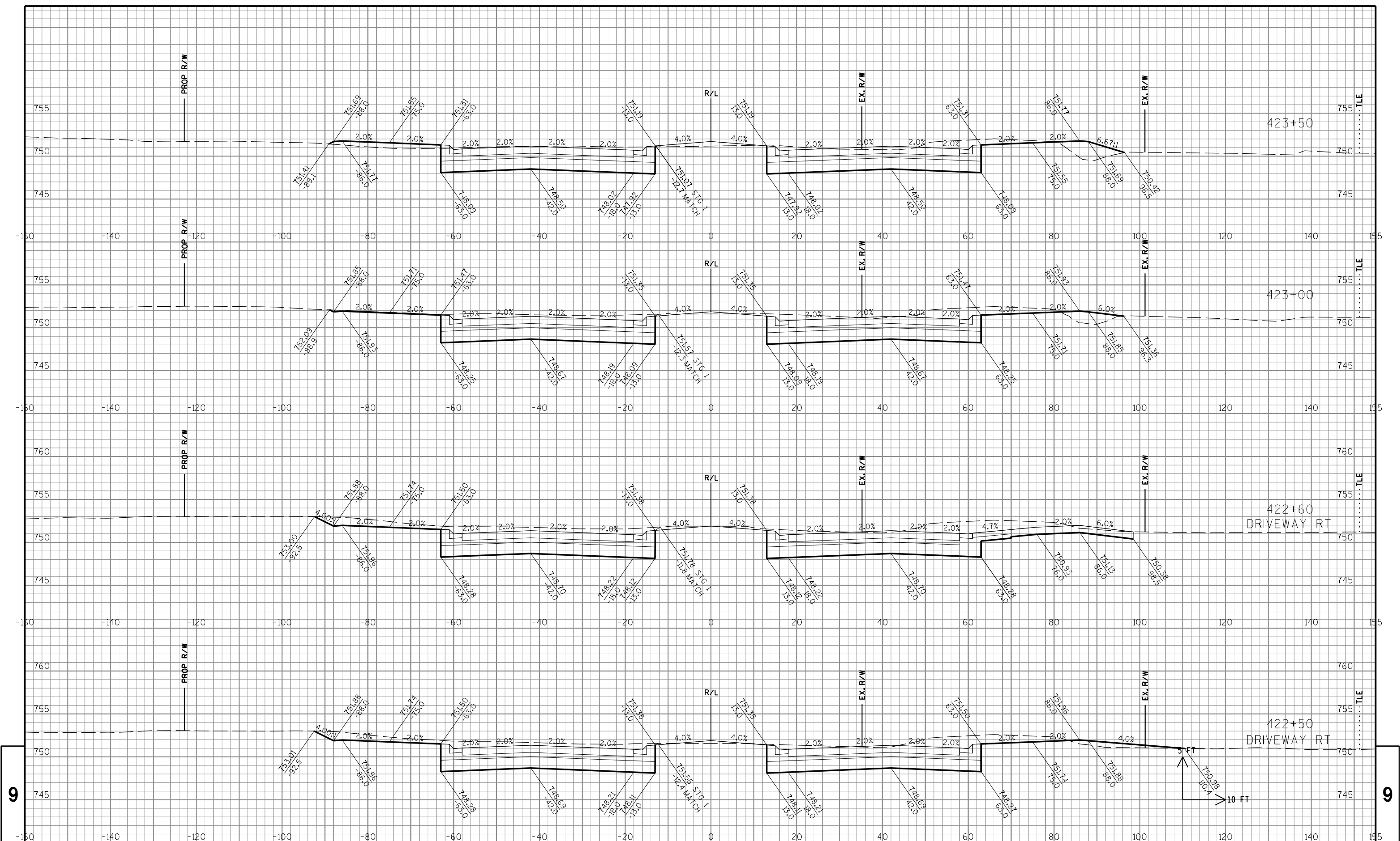
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201.XS.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwolck

PLOT NAME :

PLOT SCALE : 1:20



STATE PROJECT NO: 3763-00-73

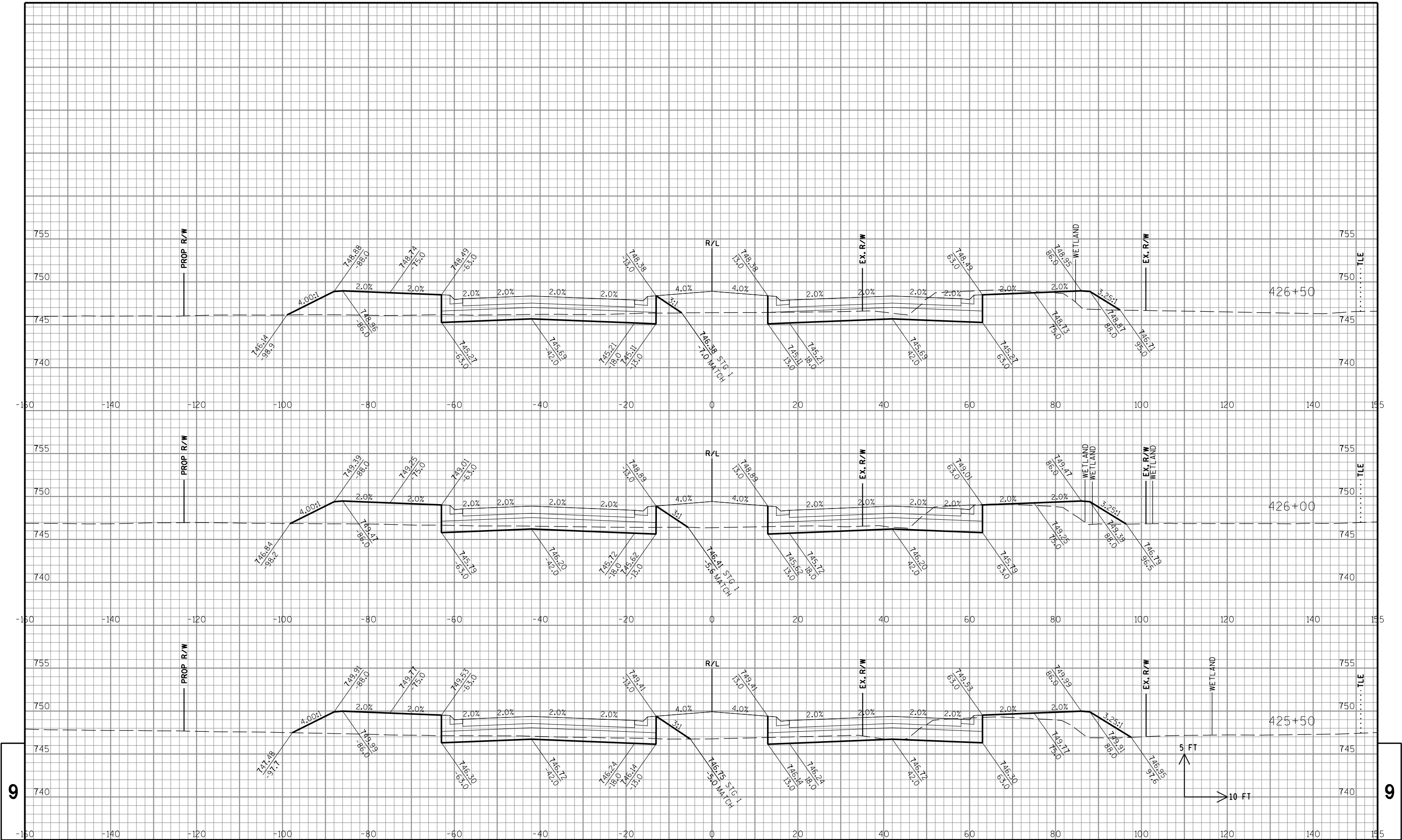
HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E



STATE PROJECT NO: 3763-00-73

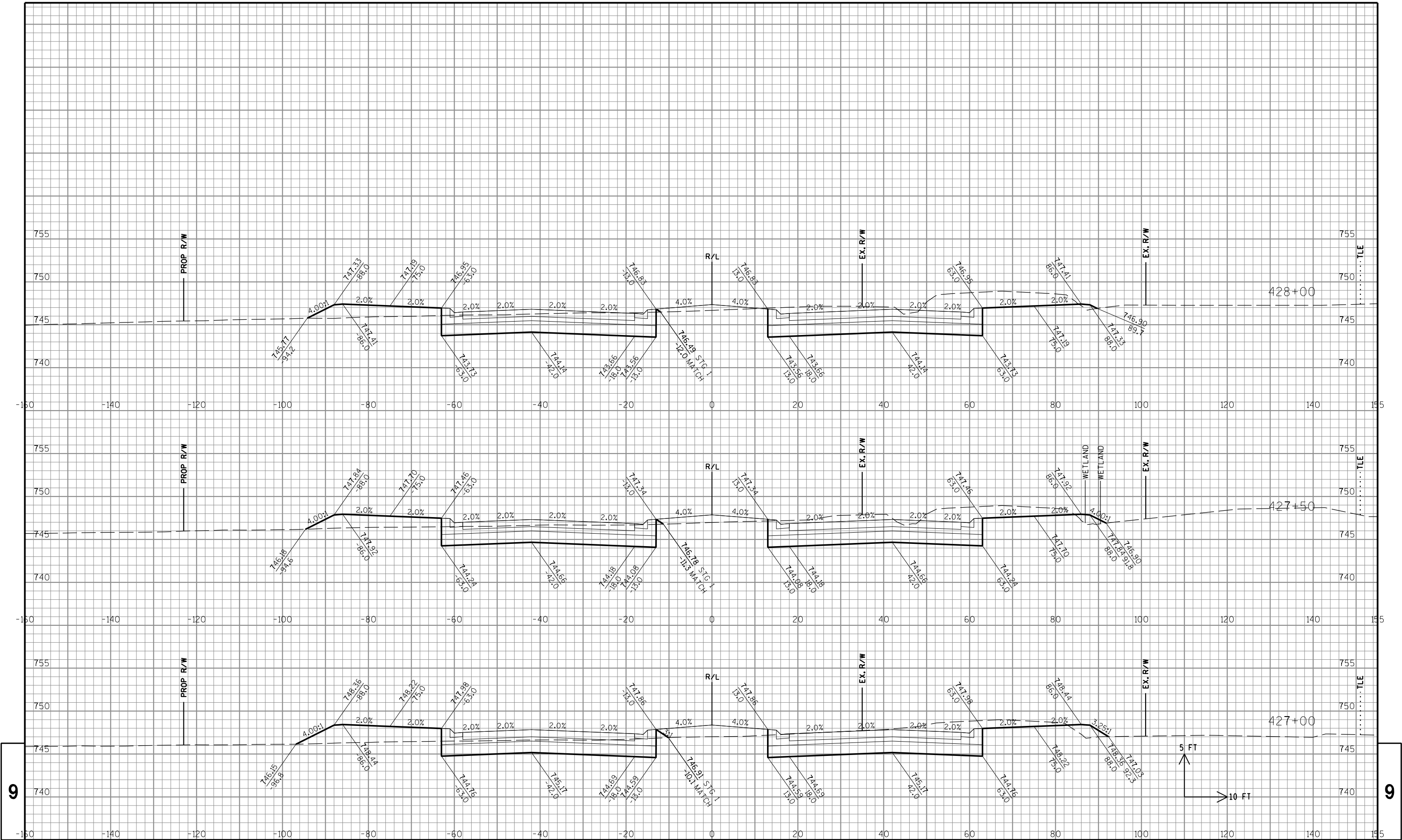
HWY: CTH KR

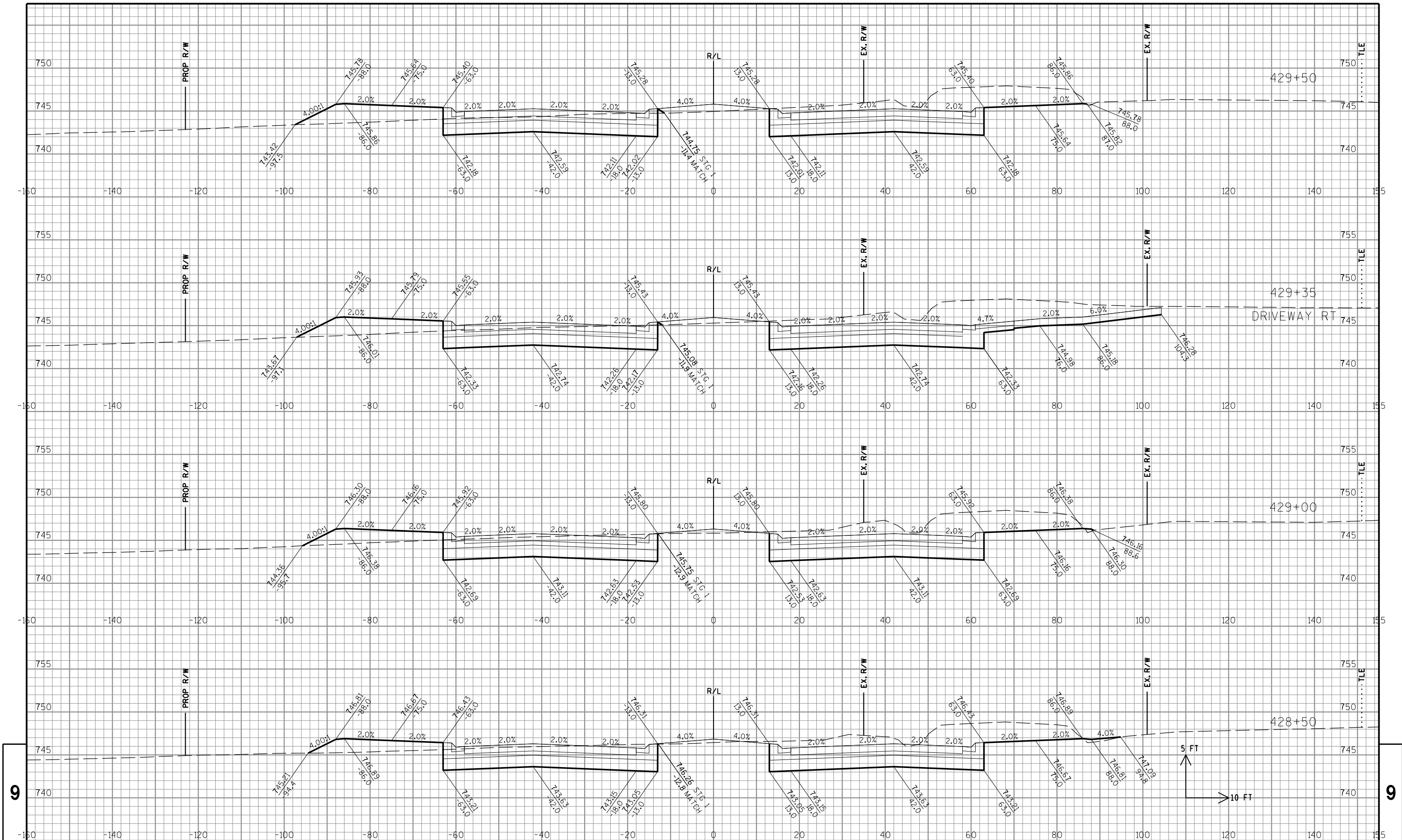
COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E





STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: CTH KR

SHEET NO: .

E

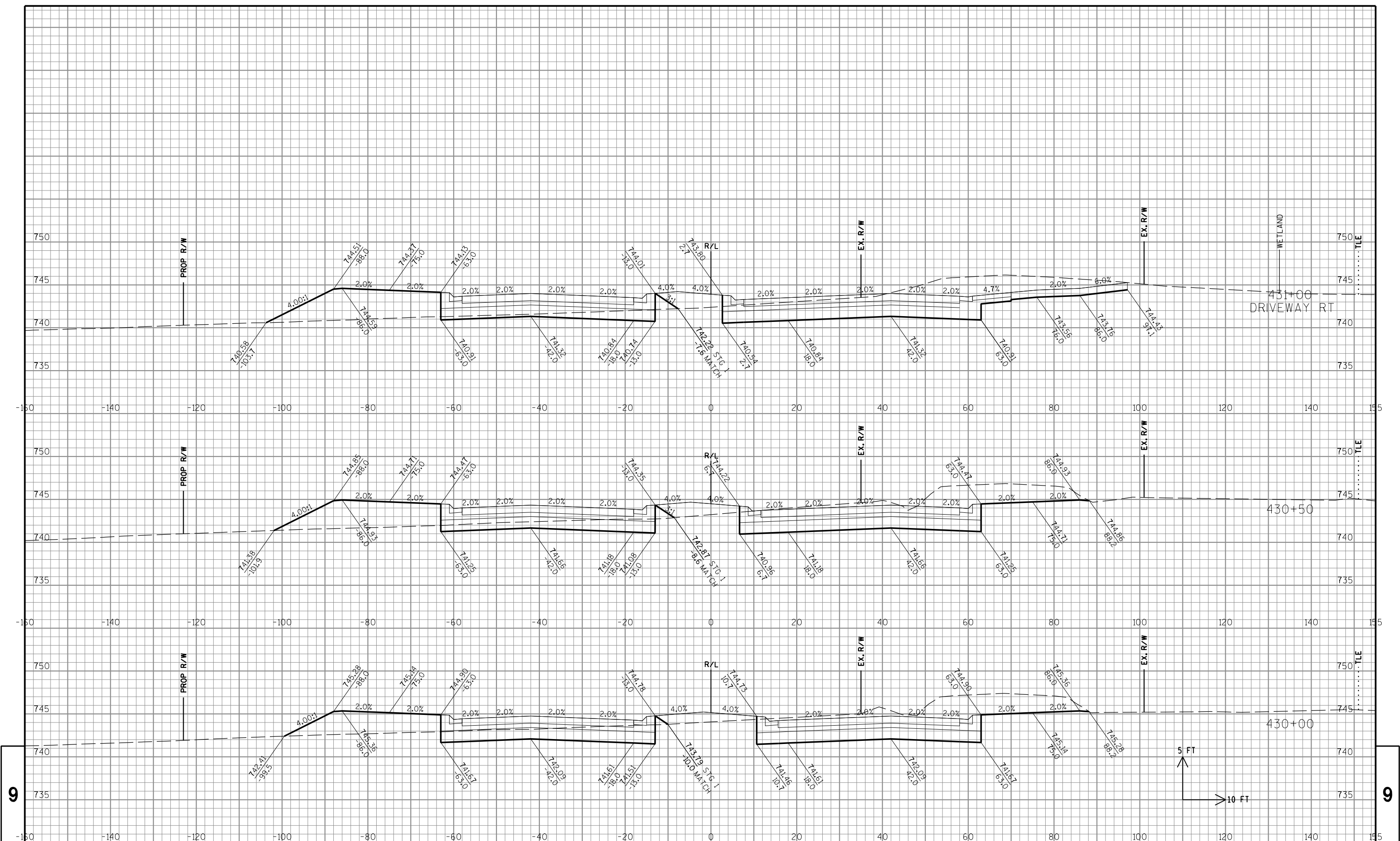
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090201.XS.dgn

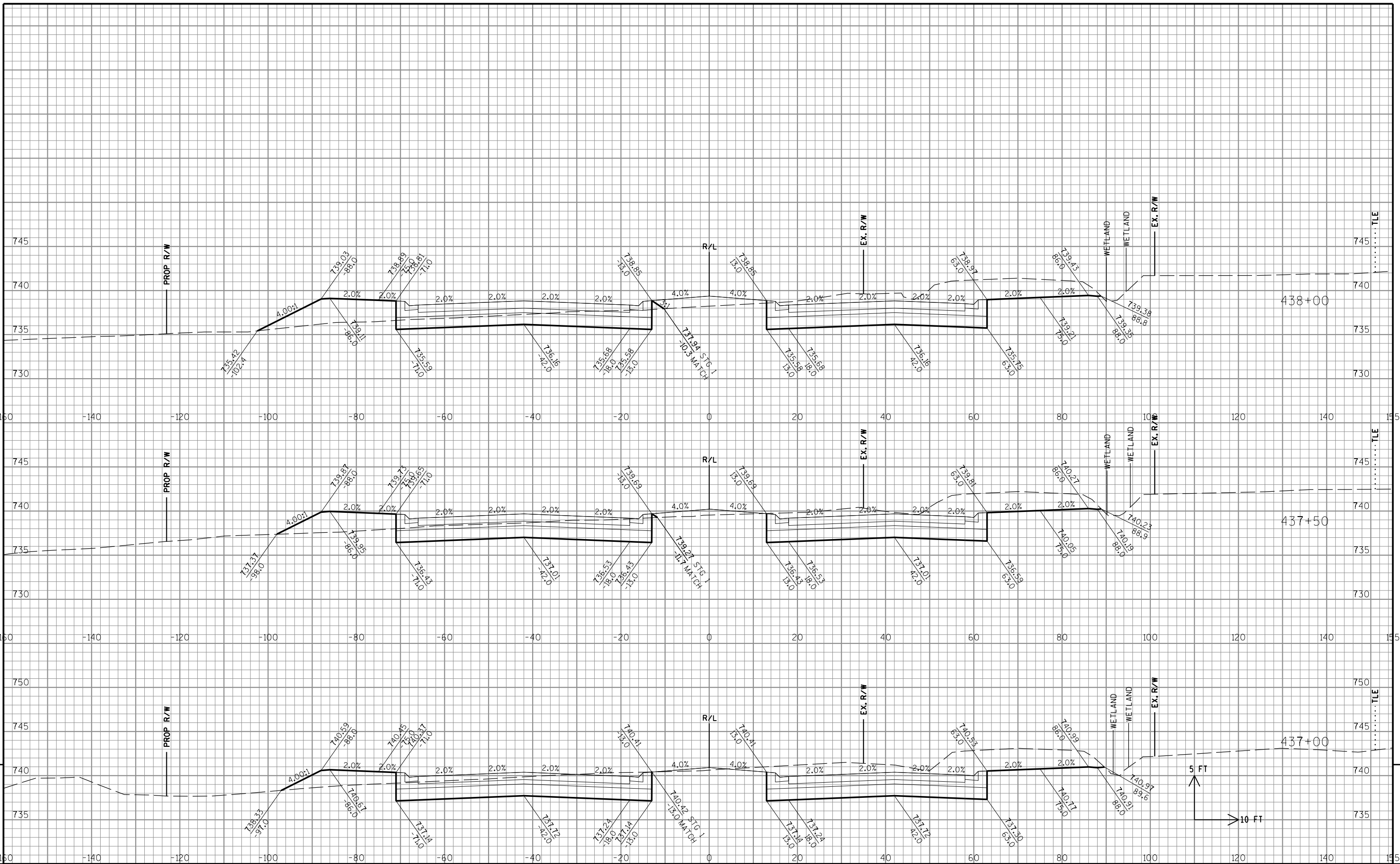
PLOT DATE : 7/31/2018

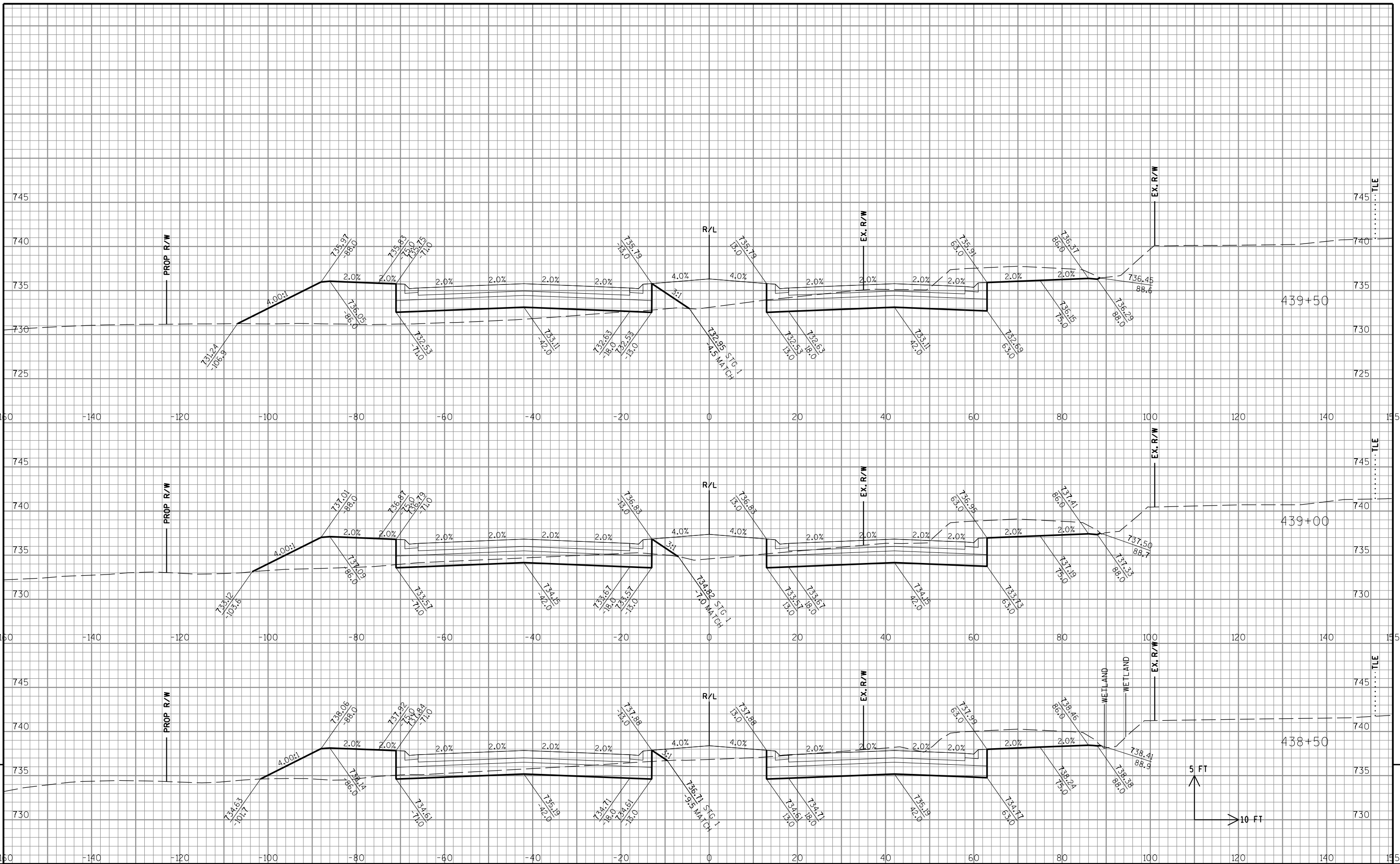
PLOT BY : wwolck

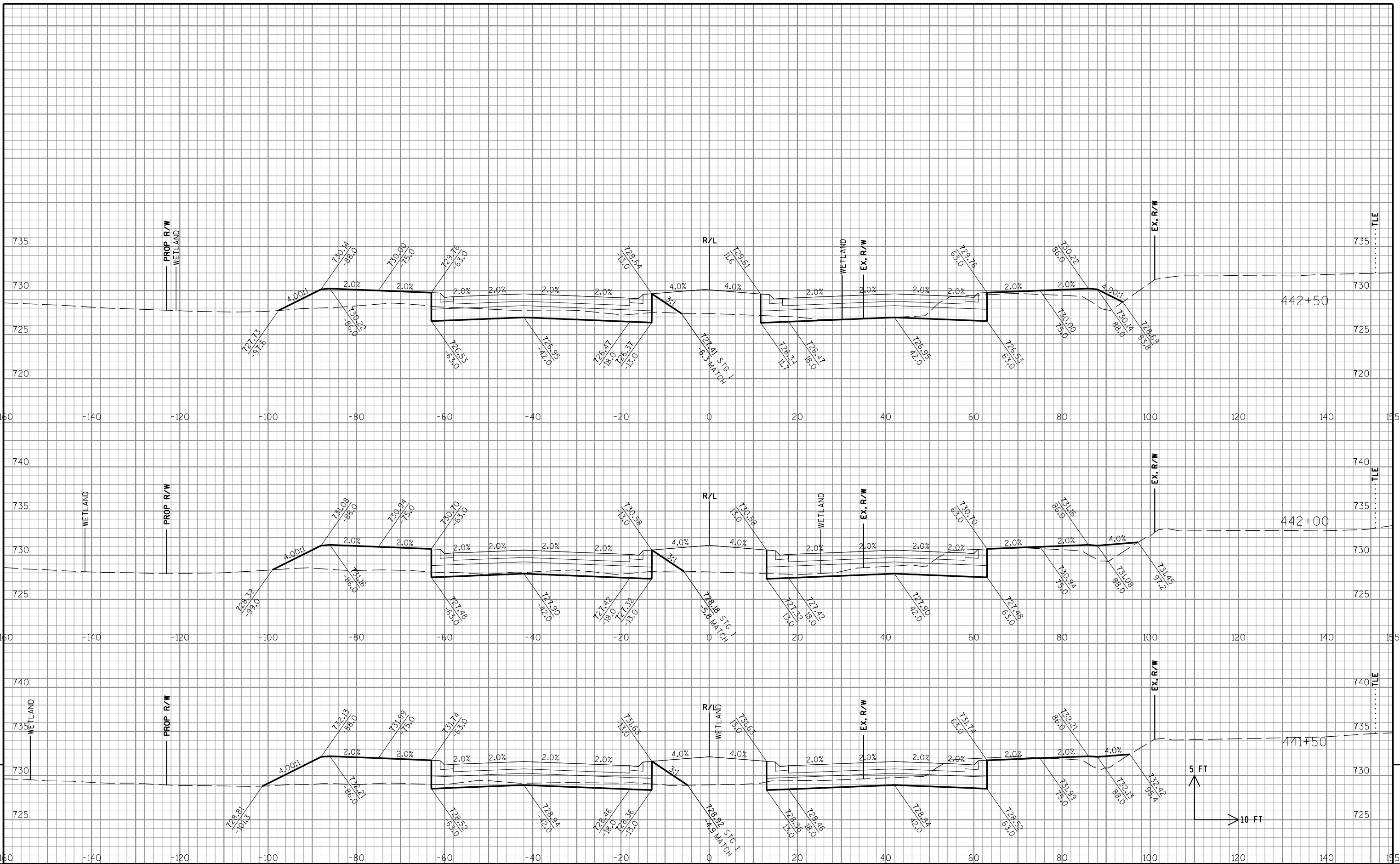
PLOT NAME :

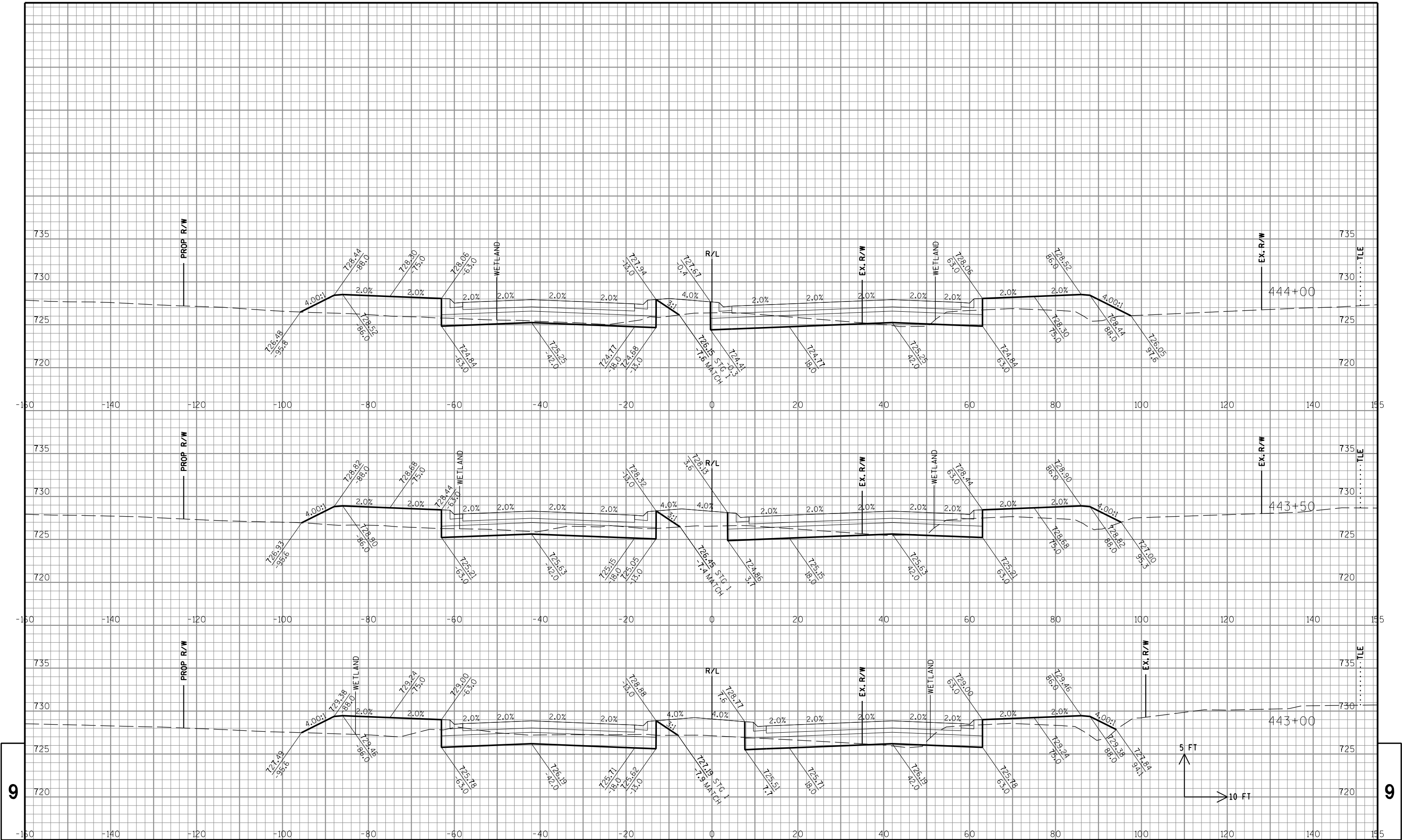
PLOT SCALE : 1:20

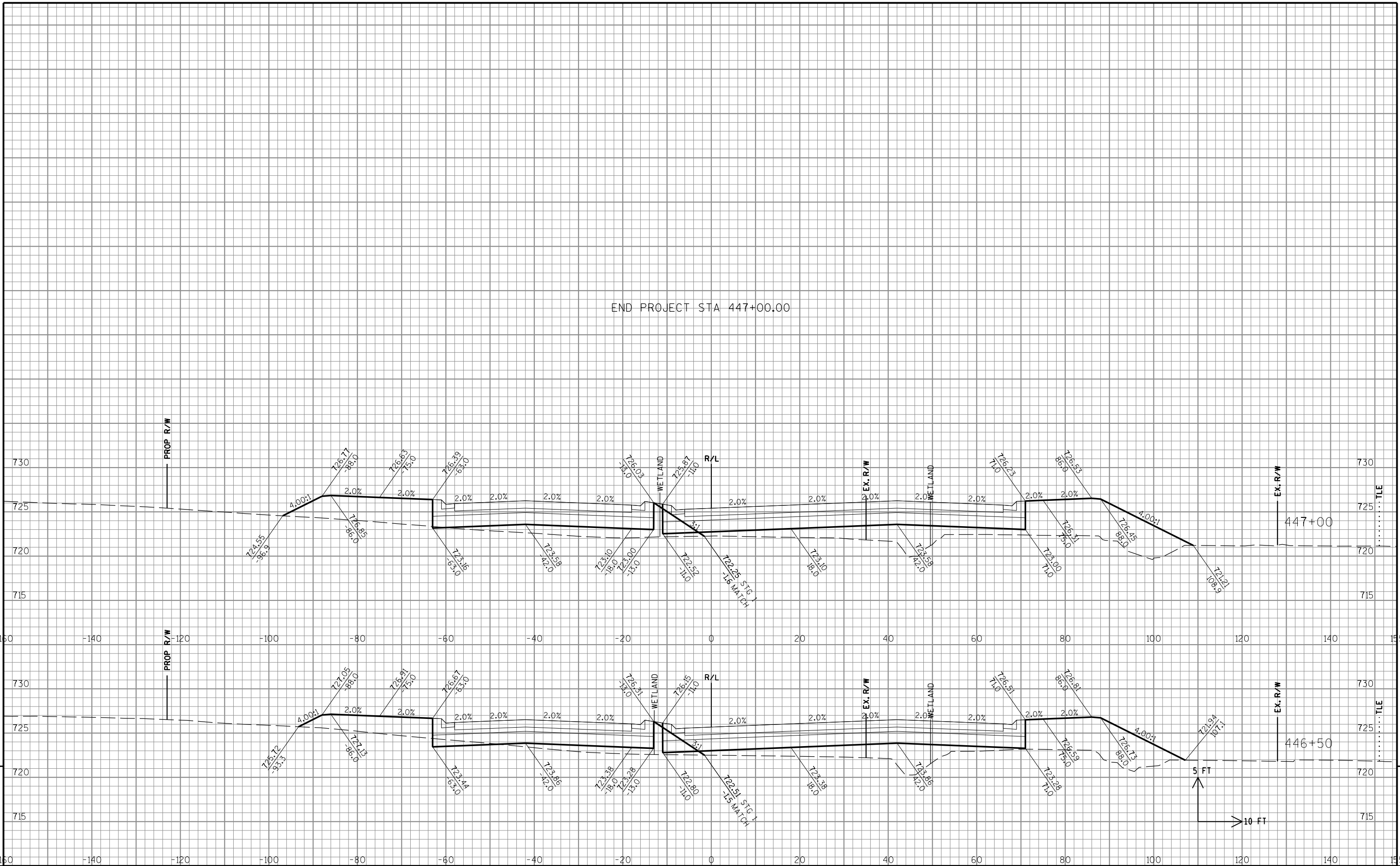




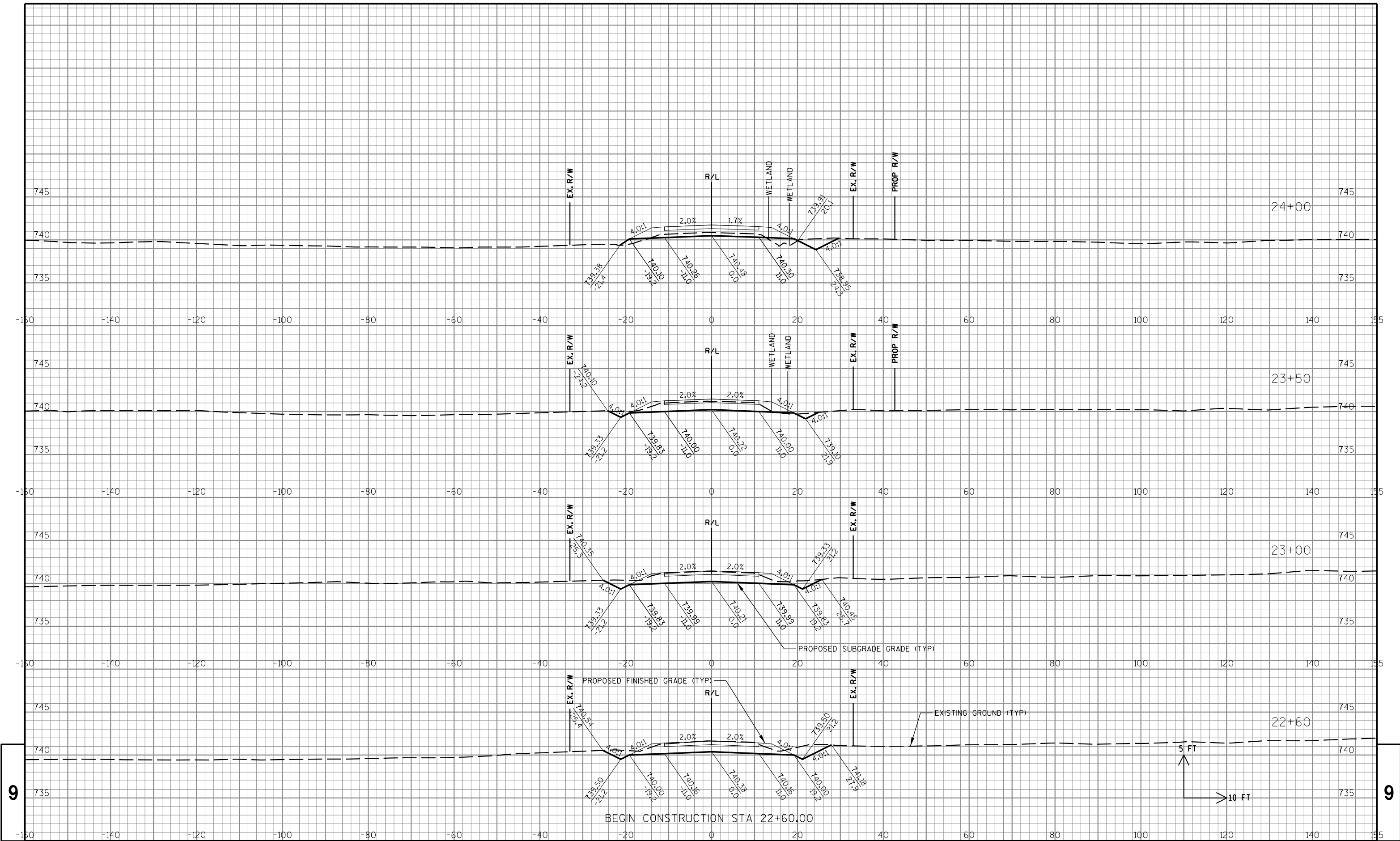








END PROJECT STA 447+00.00



STATE PROJECT NO: 3763-00-73

HWY: CTH KR

COUNTY: RACINE

CROSS SECTIONS: 100TH AVENUE

SHEET NO: .

E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\GN Files\CTH KR\Plansheets\37630073\090202.XS.dgn

PLOT DATE : 7/31/2018

PLOT BY : wwoiak

PLOT NAME :

PLOT SCALE : 1:20

