MAD

FEBRUARY 2022

PROJECT ID: 3670-01-71/72

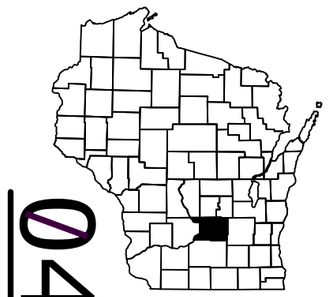
WITH:

COUNTY: COLUMBIA

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 = 390



04

N

DESIGN DESIGNATION

A.A.D.T.	(2022)	=	1500
A.A.D.T.	(2042)	=	1850
D.H.V.		=	250
D.D.		=	60/40
T.		=	13.4%
DESIGN SPEED		=	30 MPH
ESALS		=	400,000

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 (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C COLUMBUS, FARNHAM STREET

0.32MI S OF AVALON RD TO PARK AVE

STH 89

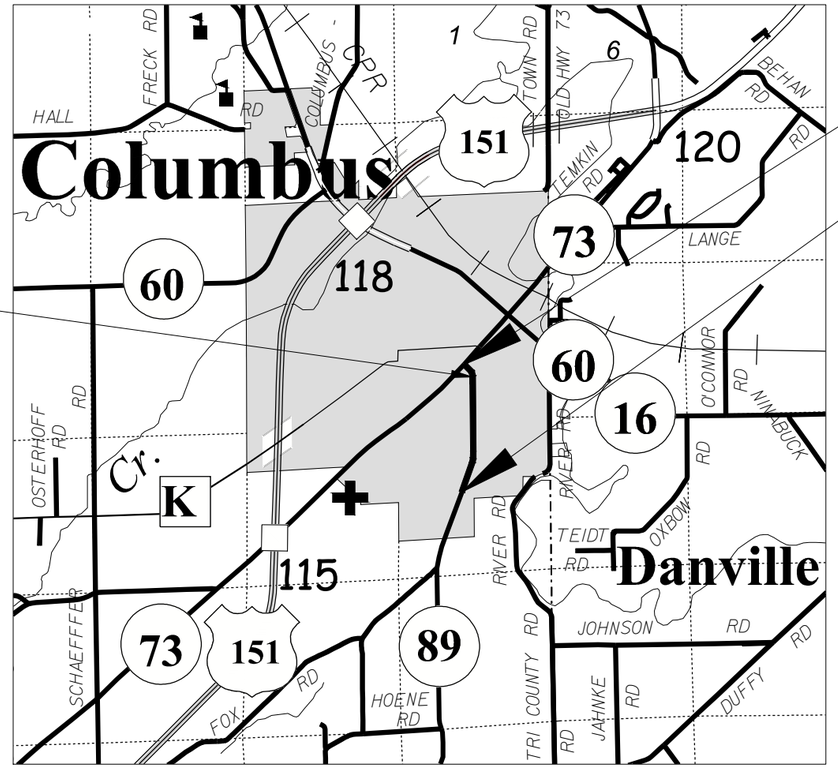
COLUMBIA COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3670-01-71	WISC 2022197	1
3670-01-72	———	—

STATE PROJECT NUMBER	STATE PROJECT NUMBER
3670-01-71	3670-01-72

R-12-E | R-13-E

T-10-N



END PROJECT 3670-01-71/72
STA 50+00.99'NB'

BEGIN PROJECT 3670-01-71/72
STA 2+93.03'NB'
X=654435.76
Y=314716.70

STRUCTURE M-11-0010
STA 42+37.00'NB' - STA 43+11.00'NB'

LAYOUT
SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.893 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCORS) COLUMBIA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD88 (2012).

GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

ORIGINAL PLANS DEVELOPED BY WISDOT SW REGION

WISCONSIN DEPARTMENT OF TRANSPORTATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	SW REGION
Designer	STEVEN PORTER, PE
Project Manager	STEVEN PORTER, PE
Regional Examiner	SW REGION
Regional Supervisor	ALEX HAGEN, PE

APPROVED FOR THE DEPARTMENT

DATE: 10/01/2021 Steven Porter (Signature)

E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\010101_TI.DWG

PLOT DATE : 6/7/2021 7:55 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

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 COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

RIGHT OF WAY LINES ARE SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

ALL RADII ARE MEASURED TO THE FLANGE LINE UNLESS NOTED ON THE PLAN.

CONSTRUCT INSIDE EDGE OF SIDEWALK $\frac{1}{2}$ INCH HIGHER THAN TOP OF CURB WHEN THEY ARE ADJACENT TO EACH OTHER.

THE CONTRACTORS PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN THE DRIVING, TURNING, BIKE, OR PARKING LANES.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

TOPSOIL SHALL BE PLACED 1 INCH BELOW THE TOP OF ADJACENT CONCRETE CURBS OR SIDEWALKS.

THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL, AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.

ALL DISTURBED AREAS ARE TO BE TOPSOILED, FERTILIZED, SEEDED, AND EROSION MAT OR SODDED AS DIRECTED BY THE ENGINEER.

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

NUMBER, LOCATION, AND SPACING OF SIGNS AND DEVICES, AS SHOWN IN THE PLANS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

STH 89 IS A DESIGNATED OSOW TALL ROUTE AND REQUIRES A 20 FOOT VERTICAL CLEAR ZONE.

SAND BAGS AND TEMPORARY SHORING ARE INCIDENTAL TO EXCAVATION FOR STRUCTURE BID ITEM.

UTILITY CONTACTS

ATC MANAGEMENT, INC. - ELECTRICITY - TRANSMISSION

DOUG VOSBERG
5303 FEN OAK DRIVE
MADISON, WI 53718
(608) 877-7650
DVOSBERG@ATCLLC.COM

CHARTER COMMUNICATIONS - COMMUNICATION LINE
EDWIN DAVY
2701 DANIELS STREET
MADISON, WI 53718
(608) 301-7713
EDWIN.DAVY@CHARTER.COM

COLUMBUS WATER AND LIGHT DEPT - ELECTRICITY
JOE HAMMER
950 MAPLE AVENUE
COLUMBUS, WI 53125
(920) 623-5912
JHAMMER@COLUMBUSWATERANDLIGHT.COM

AT&T WISCONSIN - COMMUNICATIONS LINE
CHUCK BARTELT
70 E DIVISION STREET
FOND DU LAC, WI 54935
(920) 929-1013
CB1461@ATT.COM

COLUMBUS WASTEWATER TREATMENT FACILITY - SEWER
DAVE DUERNBERGER
229 EAST SCHOOL STREET
COLUMBUS, WI 53925
(920) 350-2479
DIRECTORDPW@COLUMBUSWI.US

COLUMBUS WATER AND LIGHT DEPT - WATER
JOE HAMMER
950 MAPLE AVENUE
COLUMBUS, WI 53125
(608) 623-5912
JHAMMER@COLUMBUSWATERANDLIGHT.COM

WE ENERGIES - GAS/PETROLEUM
ADAM MARING
N3025 14TH AVE
MONROE, WI 53566
(608) 328-5679
M (608) 426-1715
ADAM.MARING@WE-ENERGIES.COM

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
WATER MAIN AND SANITARY SEWER GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
WATER MAIN AND SANITARY SEWER CONSTRUCTION DETAILS
CURB RAMP DETAILS
PLAN DETAILS
EROSION CONTROL
2ND WARD CREEK DIVERSION
STORM SEWER
WATER MAIN AND SANITARY SEWER PLAN AND PROFILE
PERMANENT SIGNING
LIGHTING PLAN
PAVEMENT MARKING
TRAFFIC CONTROL OVERVIEW
TRAFFIC CONTROL
TRAFFIC CONTROL PEDESTRIANS
TRAFFIC CONTROL DETOUR
TRAFFIC CONTROL PEDESTRIAN DETOUR
ALIGNMENT DIAGRAM

DESIGN CONTACTS

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STEVEN PORTER, P.E.
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ANDY BURT, P.E.
SENIOR PROJECT ENGINEER
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MADISON, WI 53714
(608) 819-2600

DNR LIASON

ERIC HEGGELUND
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
WISCONSIN DEPT. OF NATURAL RESOURCES
SOUTH CENTRAL REGION
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 275-3301

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

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GENERAL WATER MAIN AND SANITARY SEWER CONSTRUCTION SEQUENCE:

1. INSTALL TRAFFIC CONTROL MEASURES.
2. INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY LAND DISTURBING ACTIVITIES, AS SHOWN ON DRAWINGS AND DIRECTED BY ENGINEER.
3. STAGE WORK CONSTRUCTION BY WORK LOCATION AND CONSTRUCTION STAGE.
4. BEGIN CONSTRUCTION ACTIVITIES AS SHOWN ON DRAWINGS AND SPECIFICATIONS.
5. COMPLETE SANITARY SEWER WORK.
6. COMPLETE WATER MAIN WORK.
7. INSTALL OR ADJUST EROSION CONTROL MEASURES IN NEW FACILITIES. INSTALL ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY.
8. STABILIZE NEWLY GRADED AREAS WITHIN 7 DAYS OF BEING INACTIVE.
9. COMPLETE FINAL RESTORATION INCLUDING BUT NOT LIMITED TO: TOPSOIL, SEED, FERTILIZER AND MULCH.
10. REMOVE EROSION AND SEDIMENT CONTROL DEVICES AFTER 80% OF VEGETATION HAS BEEN ESTABLISHED IN ALL RESTORED AREAS. RESTORE DISTURBED AREAS AROUND REMOVED DEVICES, CLEAN OUT STORM WATER STRUCTURES, AND CLEAN SITE.

EROSION CONTROL NOTES:

1. INSPECTION OF ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE DONE ONCE PER WEEK AND AFTER EVERY PRECIPITATION EVENT OF 1/2–INCH OR GREATER.
2. CONTRACTOR SHALL REPAIR DEFICIENT EROSION AND SEDIMENT CONTROL MEASURES WITHIN 24–HOURS AFTER INSPECTION. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES NOT SHOWN ON THIS PLAN MAY BE NECESSARY AS A RESULT OF CONSTRUCTION PRACTICES OR AS DIRECTED BY CITY AND/OR ENGINEER.
3. ADDITIONAL EROSION AND/OR SEDIMENT CONTROL MEASURES MAY BE NECESSARY AS A RESULT OF THE CONTRACTOR'S METHODS OR AS DIRECTED BY CITY AND/OR ENGINEER.
4. CONTRACTOR SHALL NOTIFY AND OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER OF PROPOSED CHANGES TO THE EROSION CONTROL PLAN AND/OR SEQUENCE PRIOR TO IMPLEMENTING THE CHANGE.
5. ENGINEER IS UNDER NO OBLIGATION TO ALTER THE CONSTRUCTION SEQUENCE AND/OR EROSION CONTROL PLAN.
6. EXCESS MATERIAL THAT IS HAULED OFF SITE SHALL BE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL OBTAIN PROPER PERMIT APPROVALS FOR EACH FILL SITE. EROSION AND SEDIMENT CONTROL MEASURES, RESTORATION AND STABILIZATION AT FILL SITE IS CONTRACTOR'S RESPONSIBILITY. CONTRACTOR TO NOTIFY OWNER OF ALL FILL AND BORROW SITES.
7. CONTRACTOR SHALL SWEEP STREETS ADJACENT TO PROJECT AT THE END OF EACH DAY.
8. ALL INSTALLATION, MAINTENANCE AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE WISCONSIN DNR TECHNICAL STANDARDS AND THE TEMPORARY EROSION AND SEDIMENT CONTROL SPECIFICATION SECTION 015713.
9. IF TRENCH DEWATERING IS NECESSARY, CONTRACTOR SHALL PROVIDE PROPER DEWATERING SEDIMENT CONTROL DEVICE. DISCHARGE OF SEDIMENT LADEN WATER TO THE STORM SEWER OR SURFACE WATER IS PROHIBITED.

GENERAL SANITARY SEWER CONSTRUCTION NOTES:

1. ALL SANITARY SEWER RELATED CONSTRUCTION SHALL COMPLY WITH TECHNICAL STANDARDS FOR SEWER AND WATER CONSTRUCTION, CITY OF COLUMBUS, MARCH 2021 EDITION AND THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION, DECEMBER 2003, INCLUDING ADDENDA.
2. PRIOR TO CONSTRUCTION, VERIFY LOCATION AND ELEVATION OF CONNECTION POINTS INCLUDING LATERALS. NOTIFY ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL ALSO DETERMINE IF LATERALS ARE ACTIVE OR INACTIVE AND REPLACE ALL ACTIVE LATERALS.
3. PROPOSED SANITARY SEWER LATERALS SHALL MAINTAIN MINIMUM OF 6" CLEARANCE ABOVE OR 18" BELOW EXISTING OR PROPOSED WATER MAIN.
4. LOCATOR BOXES FOR SEWER LATERALS SHALL BE LOCATED AT PROPERTY LINE UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER. IF BOX IS NOT LOCATED AT PROPERTY LINE, DETECTOR WIRE SHALL BE PLACED WITH NEW LATERAL TO PROPERTY LINE AND LOOP BACK TO LOCATOR BOX.
5. NEW 6" LATERALS SHALL BE CONNECTED TO EXISTING 4" LATERALS, IF PRESENT, AT PROPERTY LINE WITH FACTORY FITTING.

GENERAL WATER MAIN CONSTRUCTION NOTES:

1. ALL WATER MAIN RELATED CONSTRUCTION SHALL COMPLY WITH TECHNICAL STANDARDS FOR SEWER AND WATER CONSTRUCTION, CITY OF COLUMBUS, MARCH 2021 EDITION AND THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION, DECEMBER 2003, INCLUDING ADDENDA.
2. PRIOR TO CONSTRUCTION, VERIFY LOCATION AND ELEVATION OF CONNECTION POINTS INCLUDING SERVICES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. WATER MAIN BURY DEPTH TO TOP OF PIPE SHALL BE 6.5' MINIMUM.
4. ALL WATER MAIN AND STORM SEWER CROSSING SHALL BE INSULATED WITH A 2"x4'x8' SHEET OF POLYSTYRENE INSULATION.
5. ALL WATER SERVICE AND STORM SEWER CROSSING SHALL BE INSULATED WITH A 2"x2'x8' SHEET OF POLYSTYRENE INSULATION.
6. COLUMBUS WATER AND LIGHT (CWL) PERSONNEL WILL OPERATE ALL WATER MAIN VALVES IN CONJUNCTION WITH THIS PROJECT. CONTRACTOR SHALL NOTIFY CWL A MINIMUM OF 24 HOURS PRIOR TO ANY VALVES BEING OPERATED.
7. CURB STOPS SHALL BE CENTERED WITHIN THE TERRACE UNLESS OTHERWISE SHOWN OR AS DIRECTED BY CWL.
8. CURB STOP LOCATIONS SHALL BE SCRIBED OR STAMPED INTO THE CURB HEAD WHEN CURB AND GUTTER IS BEING POURED BY PLACING A 'W' INTO THE TOP OF THE CURB HEAD IN LINE WITH THE CURB STOP AND WATER SERVICE.
9. FINAL GRADE ON ALL VALVE BOXES SHALL BE 0.25" BELOW FINISH GRADE.
10. WATER SERVICE CURB STOPS LOCATED WITHIN CONCRETE SHALL BE INSTALLED WITH FROST SLEEVE. FROST SLEEVE SHALL BE FURNISHED BY CWL.
11. WATER SERVICE CURB STOPS LOCATED IN ASPHALTIC PAVEMENT, INCLUDING PARKING AREAS, SHALL BE INSTALLED INSIDE VALVE BOXES.
12. PROPOSED WATER MAIN VALVES THAT ARE ON DEAD ENDS OR HAVE PLUG AND BUTTRESS SHALL HAVE 4" PVC PIPE WITH CAP, CUT TO FIT, INSERTED INSERTED INTO VALVE BOX TO PREVENT ACCIDENTAL OPENING.
13. HYDRANT VALVES SHALL BE LOCATED 2' FROM FLAG OF CURB AND HYDRANT SHALL BE SET BACK FROM BACK OF CURB 2' UNLESS OTHERWISE SHOWN OR AS DIRECTED BY CWL. MEASUREMENT IS TO NEAREST PORTION OF VALVE BOX OR HYDRANT.

LEGEND - CIVIL ENGINEERING DRAWINGS

- GENERIC MANHOLE
- VENT GENERIC VENT
- SEWER MANHOLE
- CO CLEAN OUT
- SEPTIC SEPTIC SYSTEM
- SEPC SEPTIC TANK COVER
- SEPV SEPTIC VENT
- MWEL MONITORING WELL
- WATER VALVE
- HYDRANT
- YARD HYDRANT
- WATER VALVE MANHOLE
- WATER CURB STOP
- WELL WELL
- SPRINKLER HEAD
- STORM CATCH BASIN
- STORM INLET
- GAS MANHOLE
- GAS VALVE
- GAS METER
- GAS VENT GAS VENT
- GVT GAS VALVE TEST
- GAS CURB STOP
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- TELEPHONE BOX
- TELEPHONE MANHOLE
- CABLE BOX
- UTILITY POLE
- GUY GUY WIRE
- LIGHT POLE
- YARD LIGHT
- TRAFFIC SIGNAL
- PULL BOX
- ?" SAN_SWR SANITARY SEWER
- ?" WM WATER MAIN
- ?" STO_SWR STORM SEWER
- G UNDERGROUND GAS MAIN
- E UNDERGROUND ELECTRIC
- T UNDERGROUND TELEPHONE
- FO UNDERGROUND FIBER OPTIC
- C UNDERGROUND TV CABLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL SHOULDER
- EDGE OF CONCRETE
- DITCH
- TOE OF SLOPE
- TOP OF BANK
- X FENCE
- GUARD RAIL
- ? CULVERT (SIZE & TYPE NOTED)
- RAILROAD TRACKS
- EDGE OF TREES & BRUSH
- FP FLAG POLE
- MB MAIL BOX
- POST
- DP DELINEATOR POST
- MP MARKER POST
- SIGN
- PILE PILING
- A/C AIR CONDITIONER
- RAILROAD SIGNAL FLASHER
- RRSB RAILROAD SIGNAL BOX
- RX RAILROAD SPIKE
- STUMP
- DECIDUOUS TREE
- DECIDUOUS MULTIPLE TRUNK TREE
- CONIFEROUS MULTIPLE TRUNK TREE
- CONIFEROUS TREE
- CP CONTROL POINT
- IP IRON PIPE
- IR IRON ROD
- SECTION CORNER
- MONUMENT
- TEST BORING
- PK PK NAIL
- DECORATIVE ROCK
- 1 REVISION LABEL
- WETLANDS
- WE 000.00 WATER ELEVATION
- PROPOSED SILT FENCE
- PROPOSED SANITARY SEWER (PLAN VIEW)
- PROPOSED STORM SEWER (PLAN VIEW)
- PROPOSED WATER MAIN
- PROPOSED SLOPE INTERCEPT
- PROPOSED DETECTABLE WARNING FIELD
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY RISER
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- PROPOSED YARD HYDRANT
- PROPOSED WATER VALVE MANHOLE
- PROPOSED WATER MAIN REDUCER
- PROPOSED WATER MAIN OFFSET
- PROPOSED WATER MAIN PLUG
- PROPOSED WATER MAIN PLUG W/AIR RELEASE
- PROPOSED WATER MAIN CROSS
- PROPOSED WATER MAIN TEE
- PROPOSED WATER MAIN BEND (ANGLE NOTED)
- PROPOSED LOCATOR BOX
- PROPOSED STORM INLET/CATCH BASIN
- PROPOSED STORM MANHOLE
- PROPOSED DITCH CHECK
- PROPOSED INLET PROTECTION

2

HENRY MORSE FARMHOUSE
HISTORIC PROPERTY

SAINT JEROME'S SCHOOL/CHURCH
HISTORIC PROPERTY

AVALON ROAD

STH 89

BEGIN PROJECT
STA 2+93.03'NB'

STA 18+14.33'NB' LEFT
START PARKING LANE

COLUMBUS HIGH SCHOOL
HISTORIC PROPERTY

STA 19+25.60'NB' RIGHT
BEGIN PARKING LANE

FRONTAGE ROAD

DRAINAGE POND

WATERLOO STREET

STH 73/
PARK AVE

KURTH BREWERY
HISTORIC PROPERTY

STA 43+80.00'NB' LEFT
END PARKING LANE

PIPE REPLACEMENTS
2ND WARD CREEK

END PROJECT
STA 50+00.99'NB'

FOLSOM STREET

POET STREET

2ND WARD CREEK

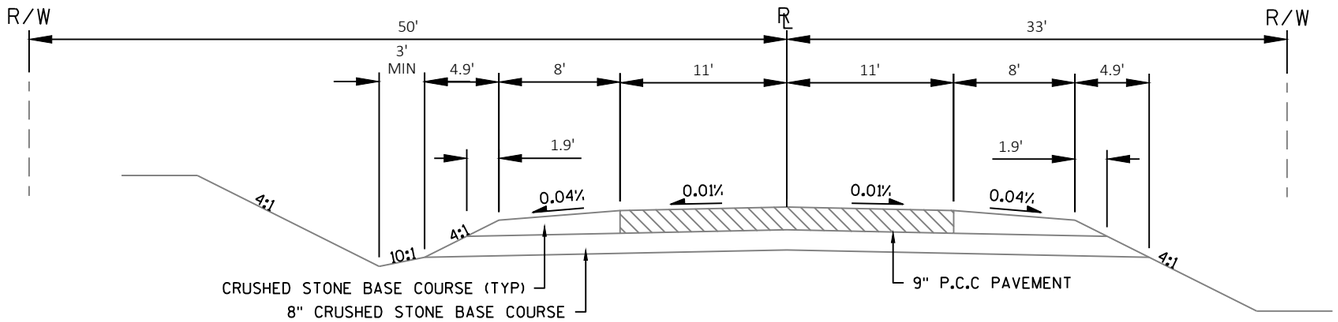
STA 43+80.00'NB' RIGHT
END PARKING LANE

STH 73/PARK AVE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PROJECT OVERVIEW	SHEET 4	E

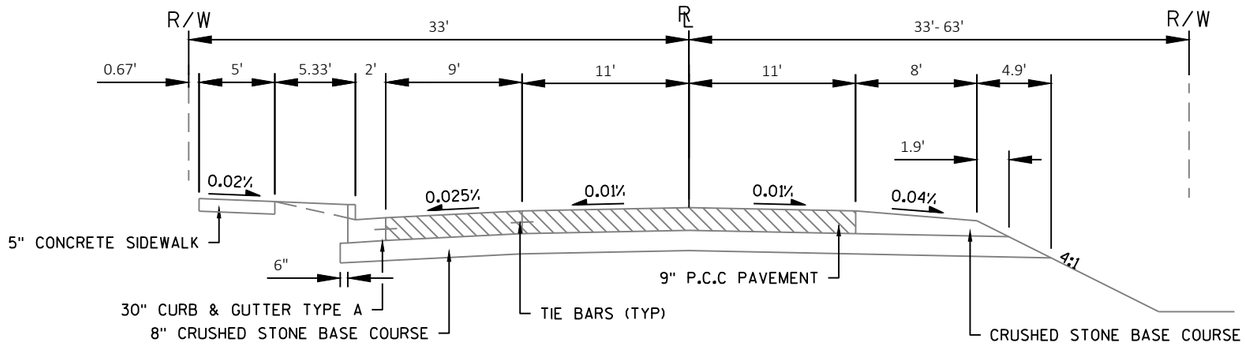
FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\020201_PO.DWG
LAYOUT NAME - 020201_po01

PLOT DATE : 5/14/2021 7:48 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:200 FT



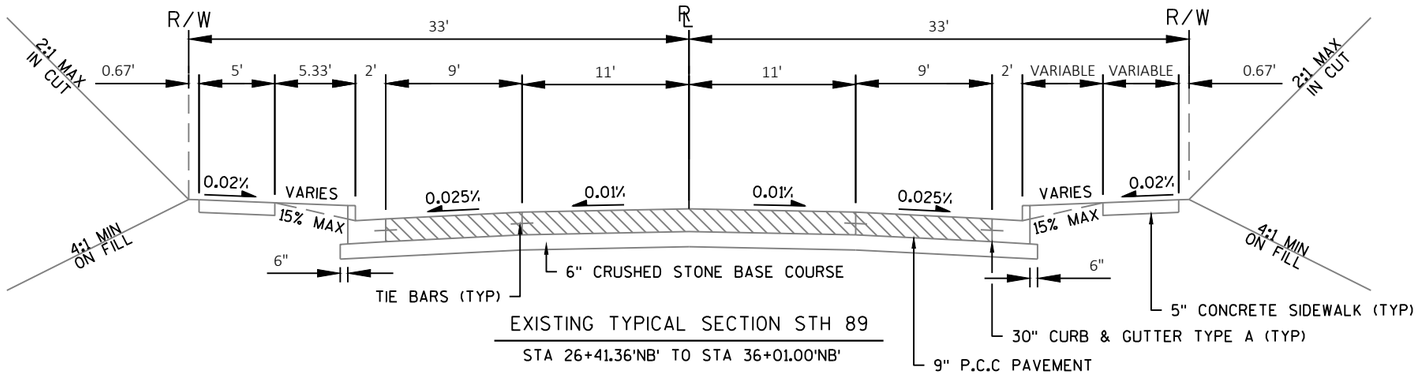
EXISTING TYPICAL SECTION STH 89

STA 2+75.60'NB' TO STA 21+98.59'NB'



EXISTING TYPICAL SECTION STH 89

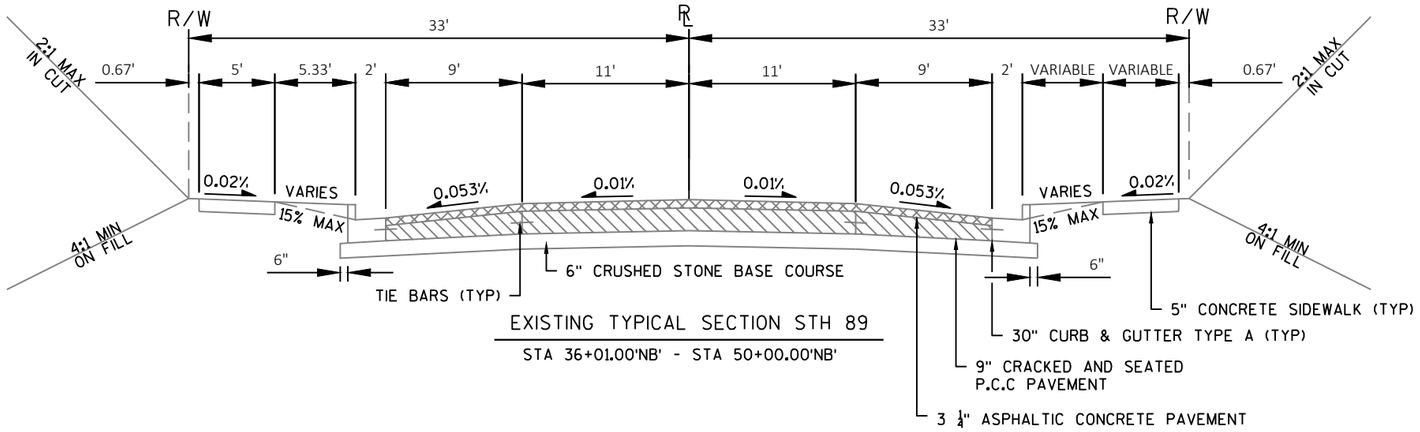
STA 21+98.59'NB' TO STA 26+41.36'NB'



EXISTING TYPICAL SECTION STH 89

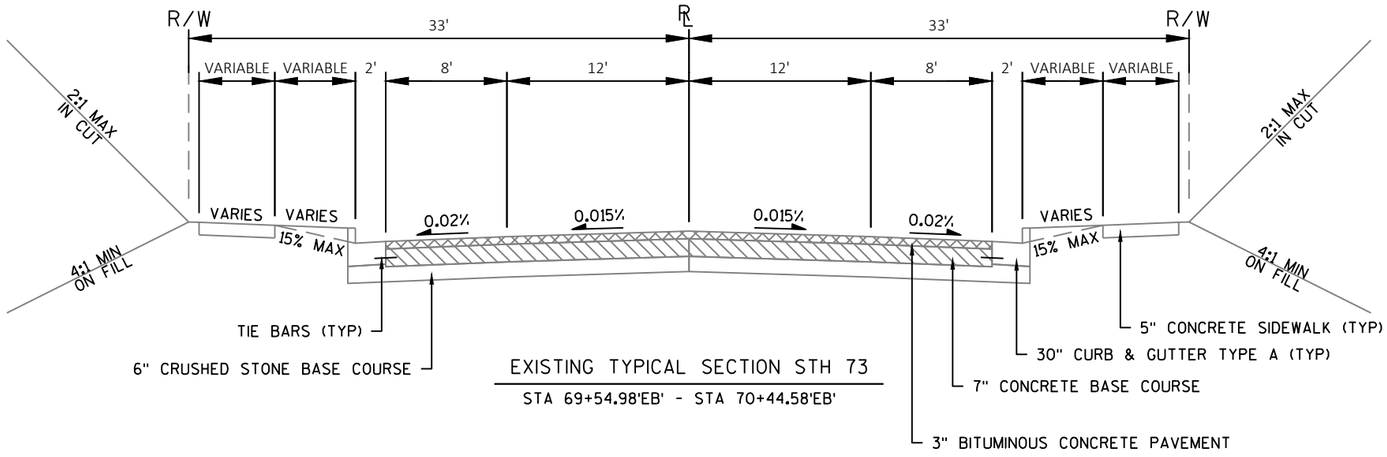
STA 26+41.36'NB' TO STA 36+01.00'NB'

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TYPICAL SECTIONS - EXISTING	SHEET 5	E



EXISTING TYPICAL SECTION STH 89

STA 36+01.00'NB' - STA 50+00.00'NB'



EXISTING TYPICAL SECTION STH 73

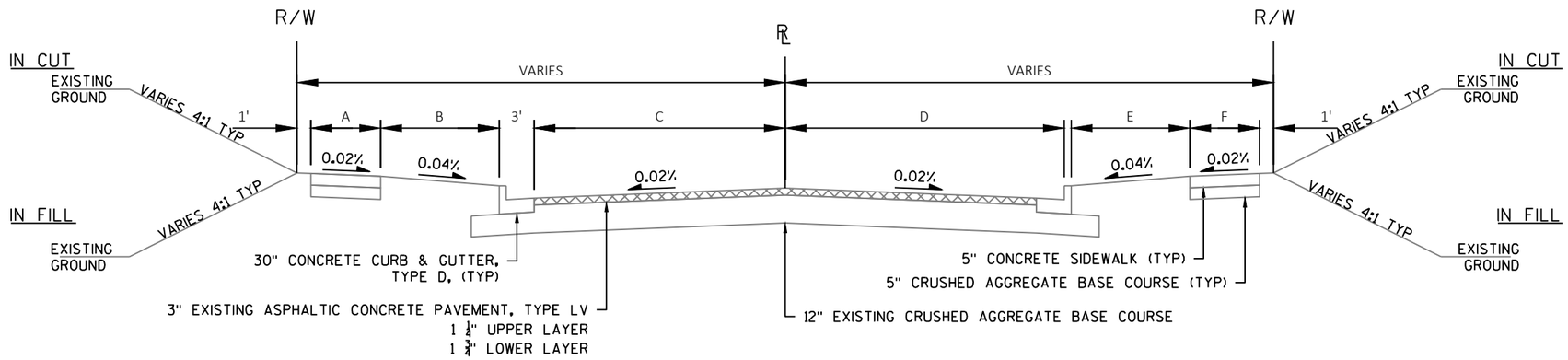
STA 69+54.98'EB' - STA 70+44.58'EB'

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TYPICAL SECTIONS - EXISTING	SHEET 6	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\020301_TS.DWG
LAYOUT NAME - 020301_ts2

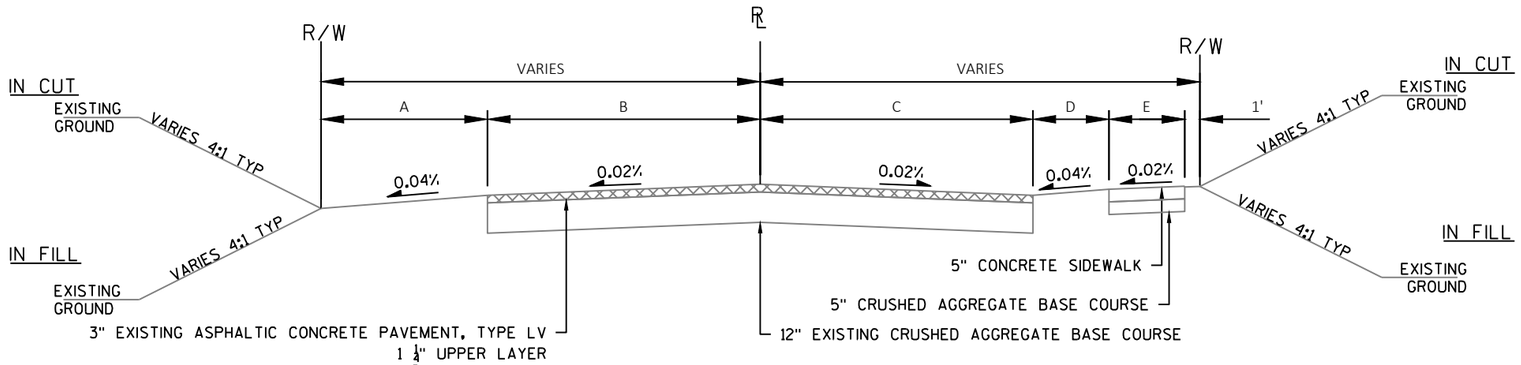
PLOT DATE : 6/7/2021 7:48 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION SIDEROADS

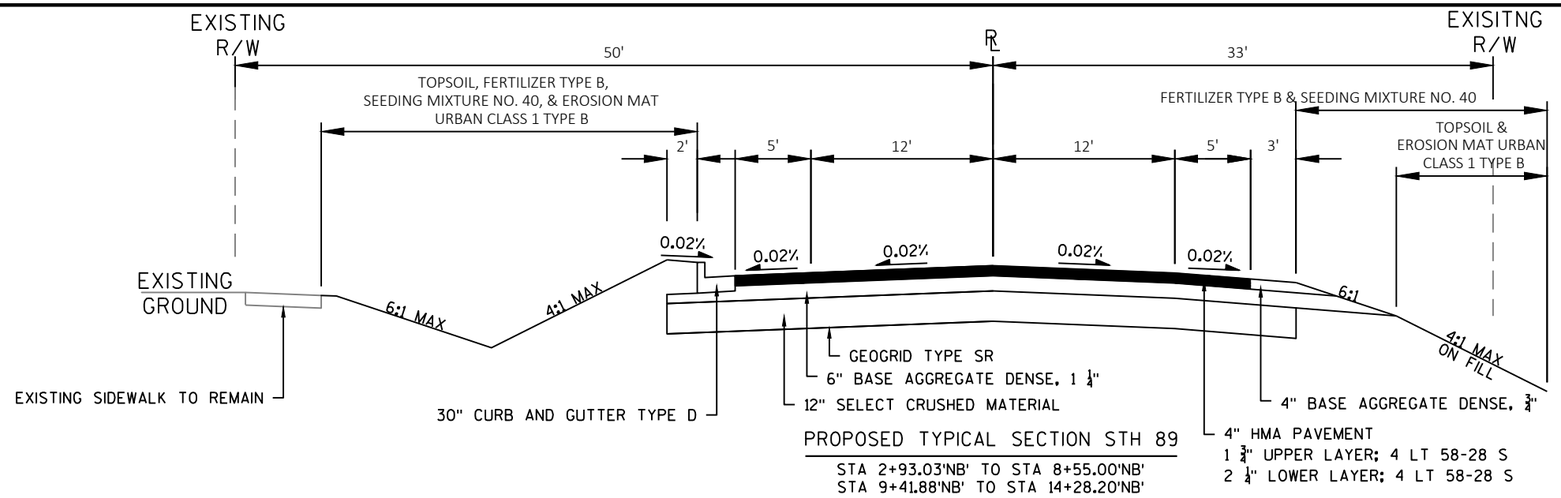
(SEE TABLE)
AVALON ROAD
WATERLOO STREET
EAST FOLSOM STREET
EAST POET STREET



EXISTING TYPICAL SECTION SIDEROADS

(SEE TABLE)
FRONTAGE ROAD
WEST FOLSOM STREET
WEST POET STREET

SIDEROADS						
	A (FT)	B (FT)	C (FT)	D (FT)	E (FT)	F (FT)
AVALON ROAD	5.0	8.5	18.0	18.0	N/A	N/A
WATERLOO STREET	N/A	N/A	13.5	13.5	N/A	N/A
FRONTAGE ROAD	VARIES	10.5	10.5	N/A	N/A	N/A
FOLSOM STREET WEST	VARIES	15.0	15.0	3.0	4.0	N/A
FOLSOM STREET EAST	4.0	10.0	16.0	16.0	VARIES	N/A
POET STREET WEST	VARIES	10.0	10.0	3.0	4.0	N/A
POET STREET EAST	4.0	9.5	15.0	15.0	8.5	4.0

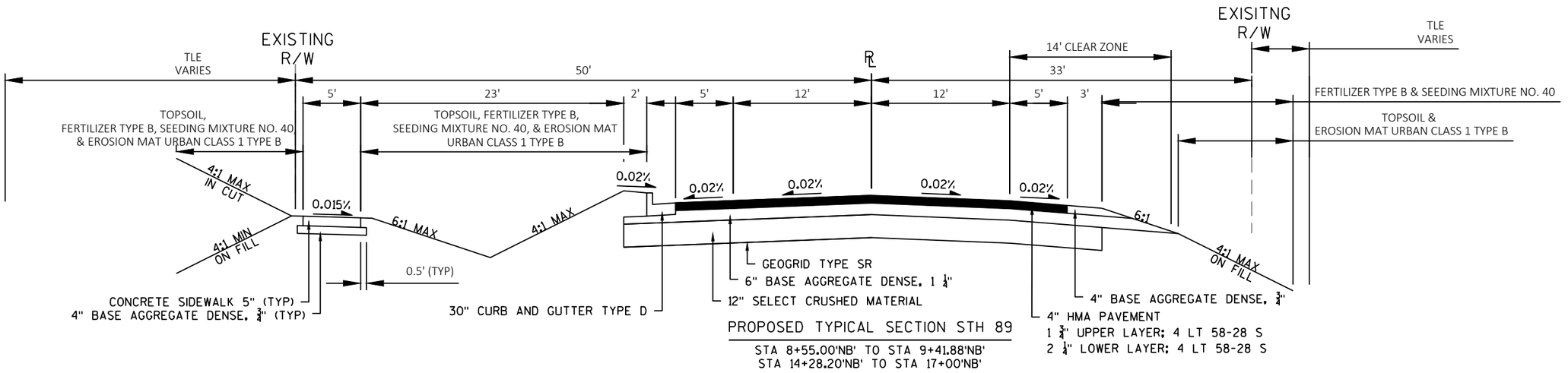


PROPOSED TYPICAL SECTION STH 89

STA 2+93.03'NB' TO STA 8+55.00'NB'
STA 9+41.88'NB' TO STA 14+28.20'NB'

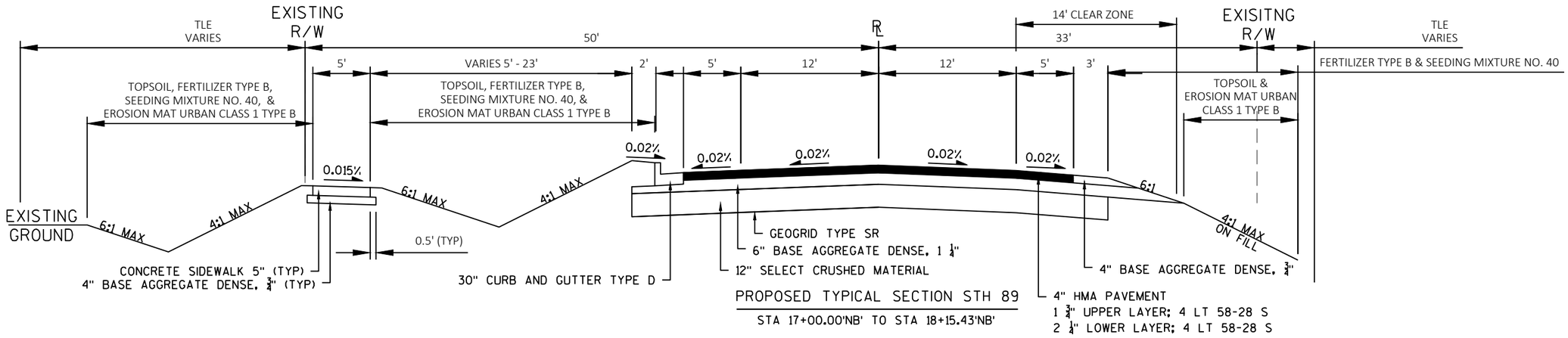
NOTES
STH 89 IS A DESIGNATED OVERSIZE OVERWEIGHT (OSOW) HIGH CLEARANCE ROUTE FOR TALL LOADS

ALL SECTIONS REQUIRE A 20 FOOT VERTICAL CLEARANCE



PROPOSED TYPICAL SECTION STH 89

STA 8+55.00'NB' TO STA 9+41.88'NB'
STA 14+28.20'NB' TO STA 17+00'NB'

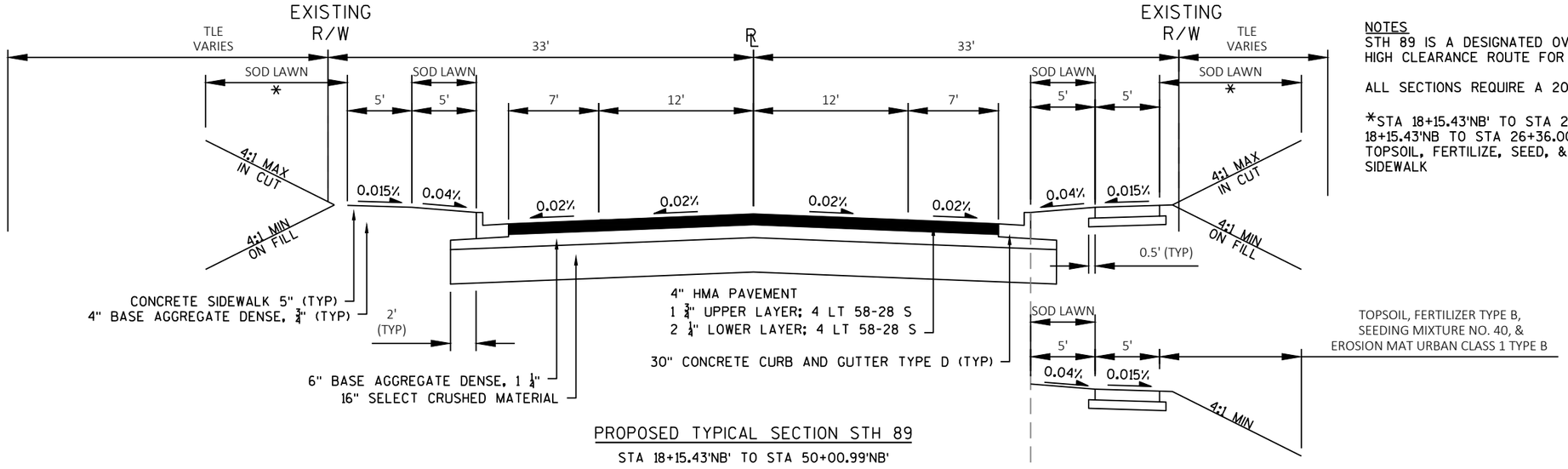


PROPOSED TYPICAL SECTION STH 89

STA 17+00.00'NB' TO STA 18+15.43'NB'

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TYPICAL SECTIONS - PROPOSED	SHEET 8	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\020301_TS.DWG
LAYOUT NAME - 020301_ts4
PLOT DATE : 6/7/2021 7:48 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



PROPOSED TYPICAL SECTION STH 89

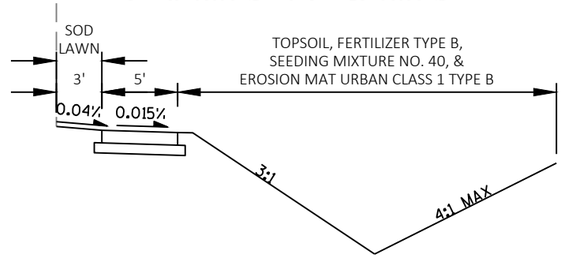
STA 18+15.43'NB' TO STA 50+00.99'NB'

NOTES
STH 89 IS A DESIGNATED OVERSIZE OVERWEIGHT (OSOW) HIGH CLEARANCE ROUTE FOR TALL LOADS

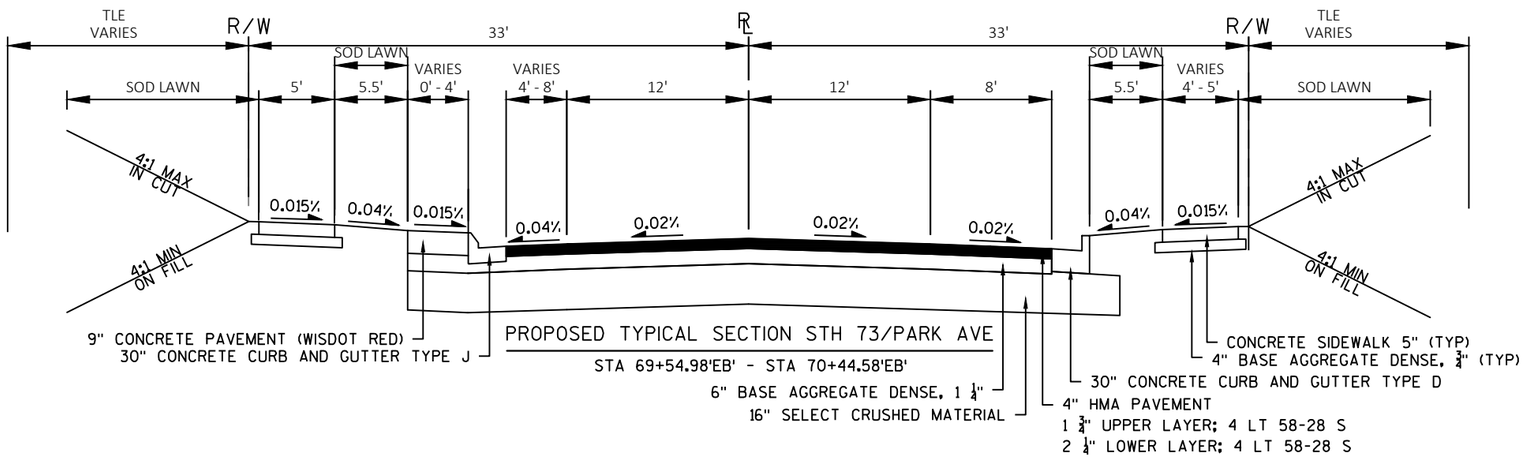
ALL SECTIONS REQUIRE A 20 FOOT VERTICAL CLEARANCE

*STA 18+15.43'NB' TO STA 22+40'NB LT & STA 18+15.43'NB TO STA 26+36.00 RT PLACE TOPSOIL, FERTILIZE, SEED, & EROSION MAT BEHIND THE SIDEWALK

STA 19+05.00'NB' TO STA 23+00.00'NB'

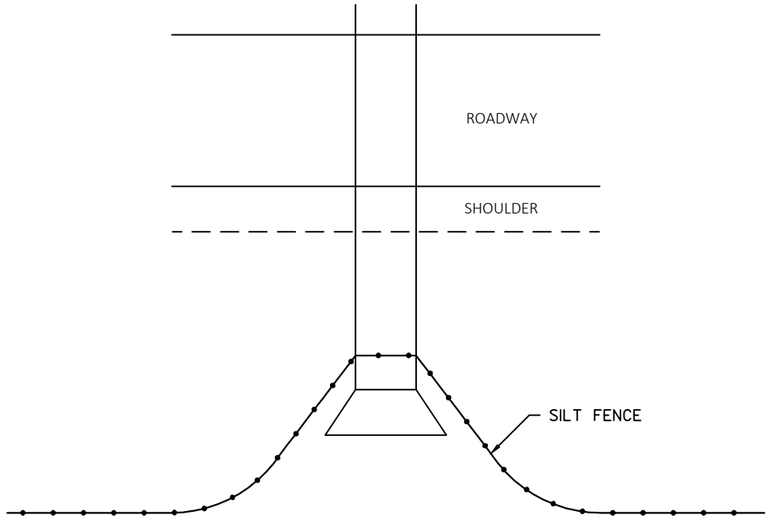


STA 23+00.00'NB' TO STA 26+35.80'NB'



PROPOSED TYPICAL SECTION STH 73/PARK AVE

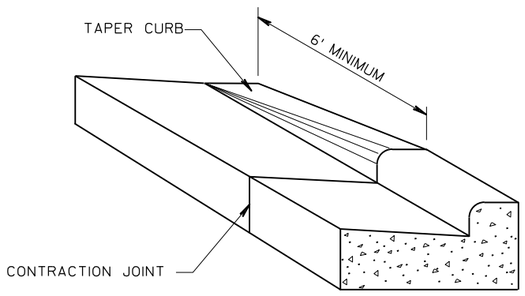
STA 69+54.98'EB' - STA 70+44.58'EB'



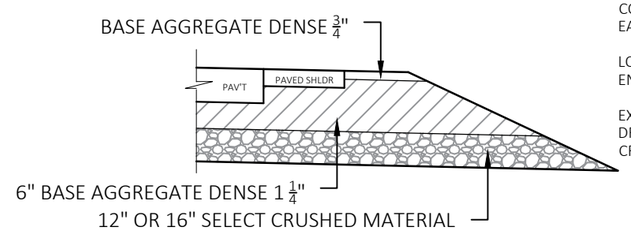
SILT FENCE AT PIPE INLET

SEE EROSION CONTROL PLANS FOR LOCATIONS

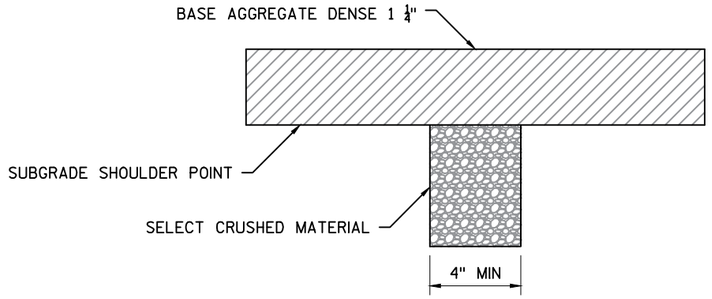
NOTE:
FOR FURTHER DETAIL SEE SILT FENCE S.D.D.



DETAIL OF CURB & GUTTER TERMINI



SECTION A-A



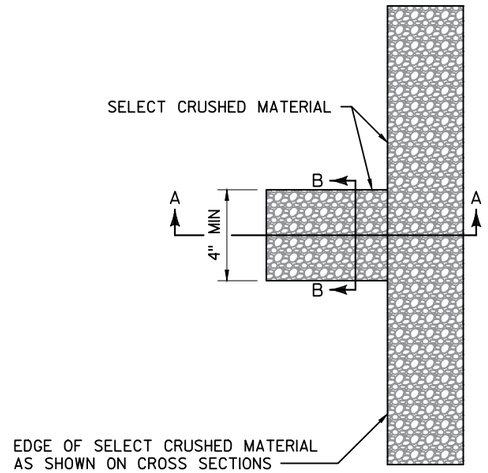
SECTION B-B

NOTE:
CONSTRUCT DRAINS AT LEAST EVERY 250' AND AT EACH SAG VERTICAL CURVE IN THE PROFILE.

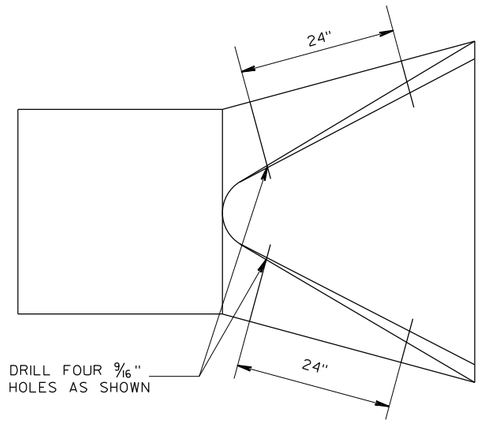
LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER

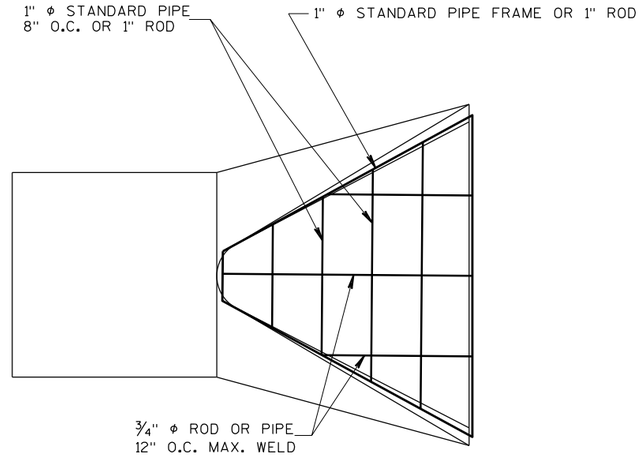
EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS IS TO BE INCIDENTAL TO THE ITEM SELECT CRUSHED MATERIAL

FRENCH DRAIN LOCATIONS
STA 5+90.00'NB' RT
STA 8+80.00'NB' RT
STA 11+30.00'NB' RT
STA 13+80.00'NB' RT (LOWPOINT)
STA 16+40.00'NB' RT

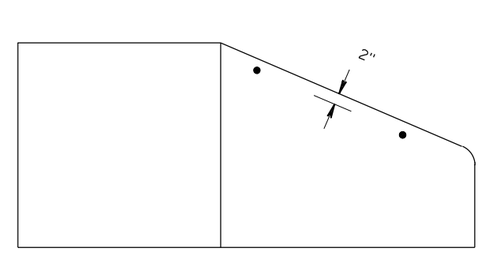


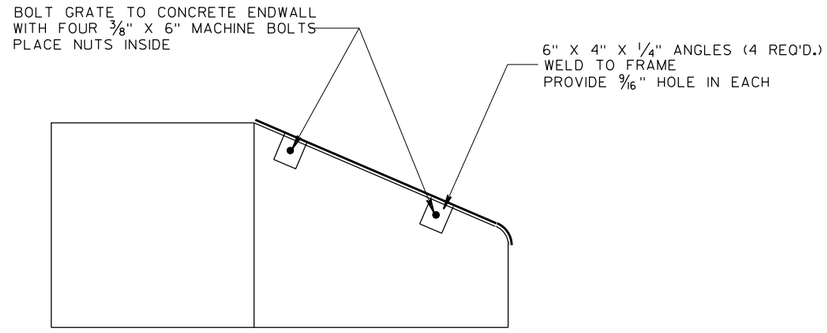
DETAIL FOR FRENCH DRAINS

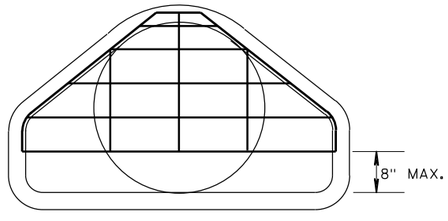




AT EACH PIPE



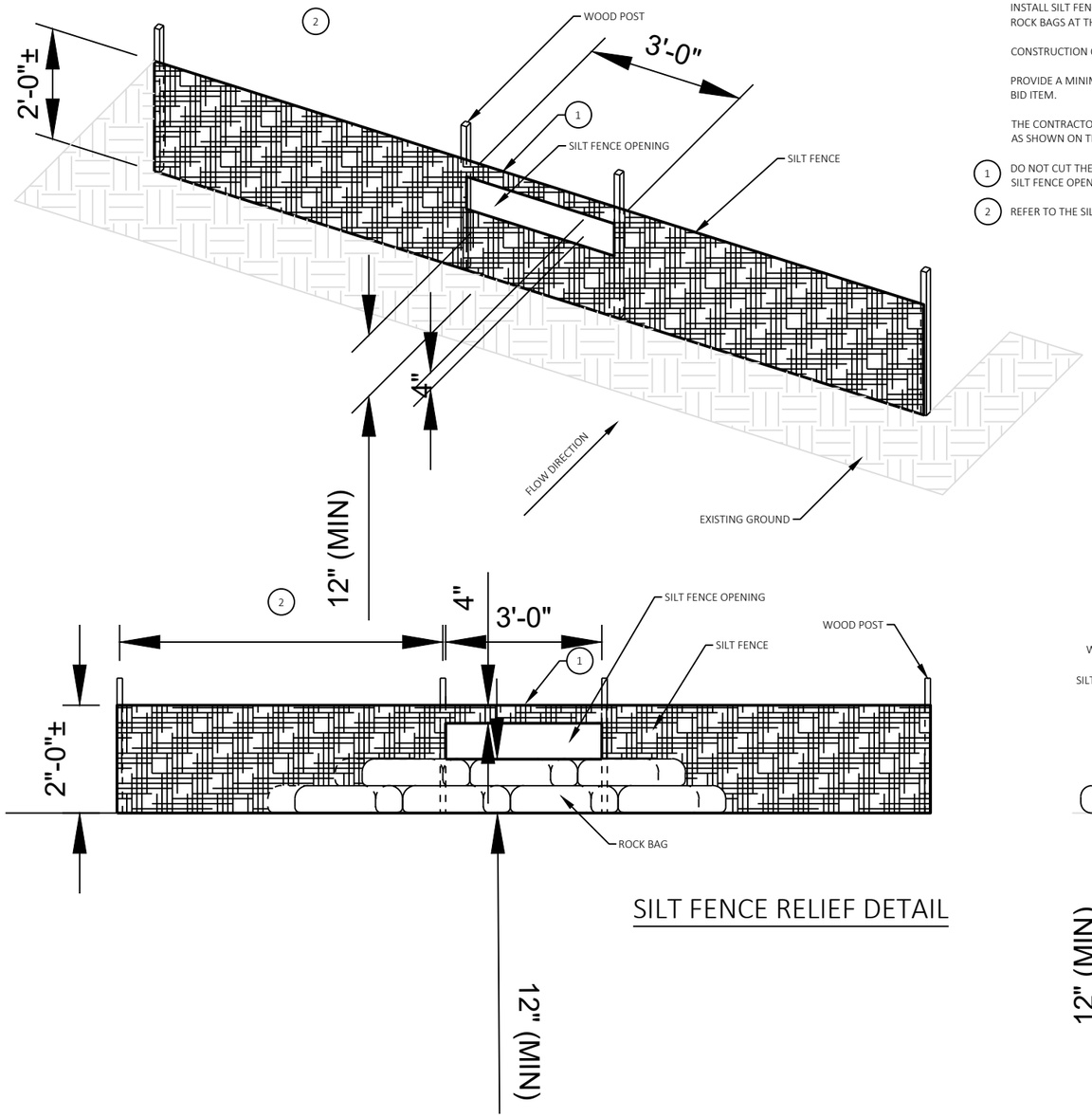




PIPE GRATE DETAIL

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CONSTRUCTION DETAILS	SHEET 11	E

2



SILT FENCE RELIEF DETAIL

GENERAL NOTES

THE SILT FENCE RELIEF DETAIL IS A SUPPLEMENTAL DETAIL TO THE SILT FENCE STANDARD DETAILS AND SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

INSTALL SILT FENCE PRIOR TO CONSTRUCTING THE SILT FENCE OPENING. PRIOR TO CONSTRUCTING THE SILT FENCE OPENING, PLACE ROCK BAGS AT THE SILT FENCE OPENING AS SHOWN IN THIS DETAIL.

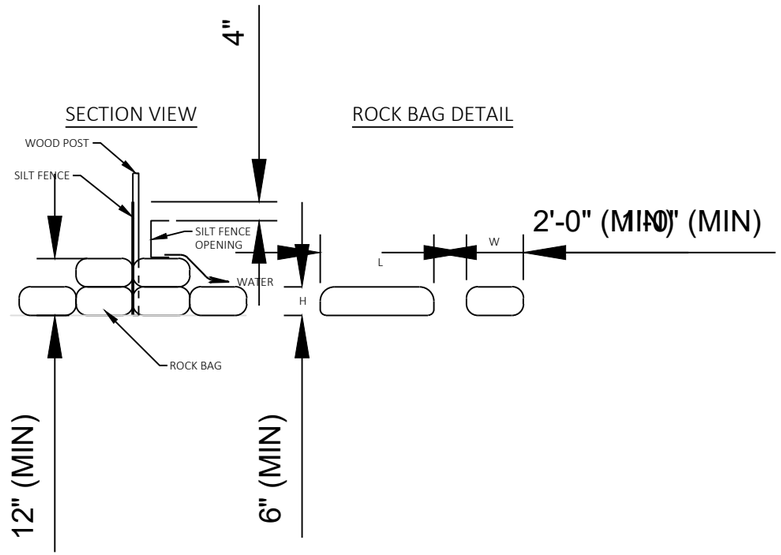
CONSTRUCTION OF THE SILT FENCE OPENING SHALL BE INCIDENTAL TO THE COST OF THE SILT FENCE BID ITEM.

PROVIDE A MINIMUM OF 22 ROCK BAGS MINIMUM PER 3 FOOT OPENING. ROCK BAGS SHALL BE PAID UNDER THE ROCK BAGS BID ITEM.

THE CONTRACTOR SHALL ADJUST THE SILT FENCE RELIEF OPENINGS WITHIN THE SILT FENCE AS NECESSARY TO PROVIDE RELIEF: AS SHOWN ON THE PLANS, TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE FIELD ENGINEER.

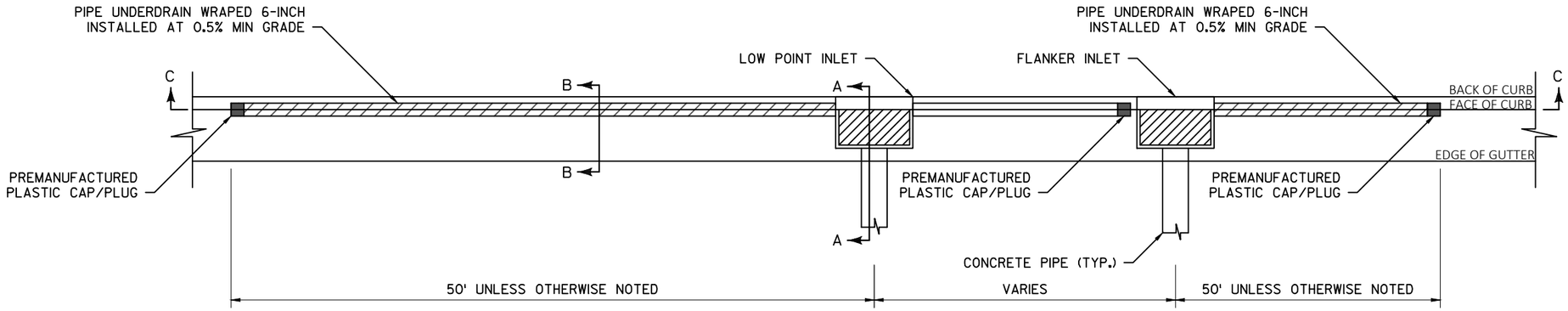
(1) DO NOT CUT THE SUPPORT CORD OR TENSION TAPE WHEN CONSTRUCTING THE SILT FENCE OPENING. KEEP THE TOP OF THE SILT FENCE OPENING 1"± BELOW THE 3" FOLD AT THE SUPPORT CORD OR TENSION TAPE.

(2) REFER TO THE SILT FENCE STANDARD DETAILS FOR ALLOWABLE ADJUSTMENTS TO POST SPACING.



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CONSTRUCTION DETAILS	SHEET 12	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021001_CD.DWG
LAYOUT NAME - 021001_cd03
PLOT DATE : 6/7/2021 11:15 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

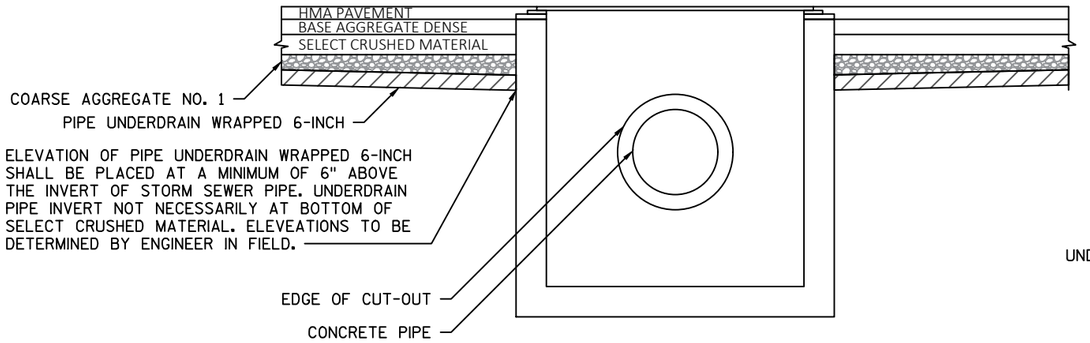


LOW POINT INLET
WITH FLANKING INLETS

TOP VIEW
SPLIT DETAIL

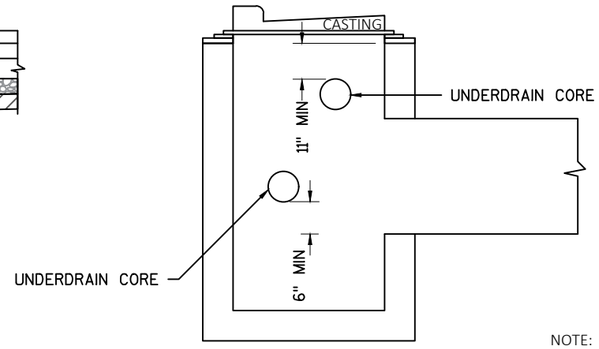
LOW POINT INLET
WITH FLANKING INLETS

INLET CONFIGURATION WITH
UNDERDRAIN AT LOW POINTS



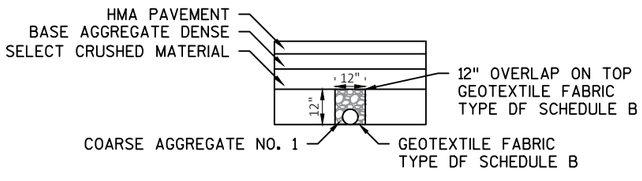
SECTION C-C

TYPICAL INLET CONFIGURATION WITH
UNDERDRAIN CORED INTO WALL AT LOW POINTS
WITHOUT FLANKING INLETS



SECTION A-A

TYPICAL INLET CONFIGURATION WITH
UNDERDRAIN CORED INTO WALL AT LOW POINTS
WITHOUT FLANKING INLETS



SECTION B-B

NOTE:
WHERE MULTIPLE INLETS ARE USED AT LOW POINTS, PIPE UNDERDRAIN WRAPPED 6-INCH SHALL BE INSTALLED 50 FEET TO EITHER DIRECTION FROM THE LOW POINT AT A MINIMUM POSITIVE GRADE OF 0.5%. THE SECTION OF UNDERDRAIN BETWEEN THE CENTER AND OUTER INLETS SHALL BE PLACED TIGHT TO THE OUTER INLET, CAPPED WITH A PREMANUFACTURED PLASTIC CAP OR PLUG, AND LAID AS SPECIFIED ABOVE TO THE CENTER OF THE INLET.

ATTACHMENT TO REAR OF INLET IS SATISFACTORY IF PIPE SIZE RESTRICTS SPACE FOR UNDERDRAIN CORE.

BOTTOM OF PIPE SHALL BE PLACED AT THE BOTTOM OF COARSE AGGREGATE NO. 1 MATERIAL.

BOTTOM OF COARSE AGGREGATE NO. 1 MATERIAL IS NOT NECESSARILY THE BOTTOM OF THE SELECT CRUSHED MATERIAL.

BOTTOM OF CORE PLACED A MINIMUM OF 6" ABOVE THE INVERT OF THE CROSS PIPE.

TOP OF CORE HOLES WILL BE A MINIMUM OF 11" BELOW TOP OF THE INLET STRUCTURES (BOTTOM OF ADJUSTING RINGS).

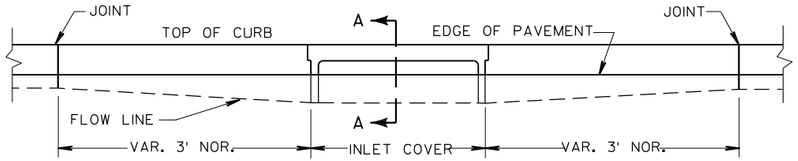
DRAIN TILES SHALL NOT BE ALLOWED IN THE ADJUSTING RINGS OF THE STRUCTURE OF INLETS OR MANHOLES.

CORE HOLES SHALL PROVIDE FOR A MINIMUM OF 2" OF CONCRETE BETWEEN THE CUTOUT FOR A CONCRETE PIPE AND THE EDGE OF THE CORE HOLE.

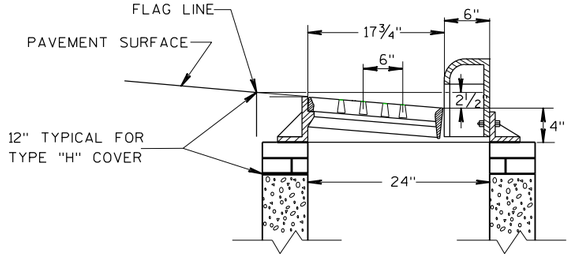
CORE HOLES SHALL HAVE 1" CLEARANCE FROM THE INSIDE WALLS OF A STRUCTURE.

PIPE UNDERDRAIN 6-INCH WITH GEOTEXTILE FABRIC AND AGGREGATE

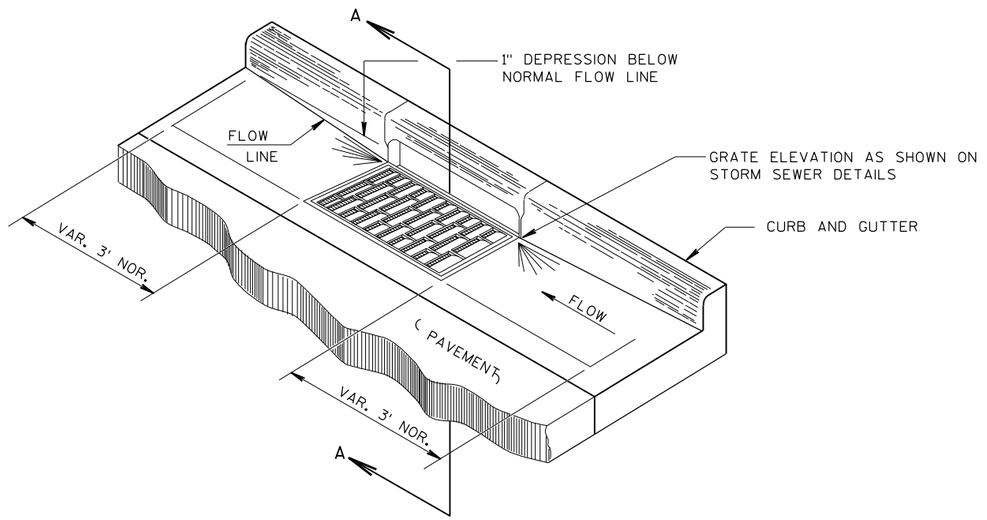
2



ELEVATION



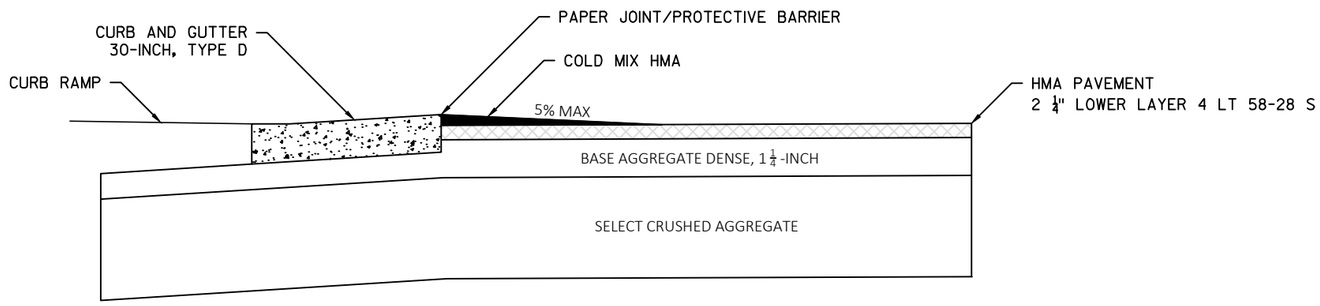
SECTION A-A



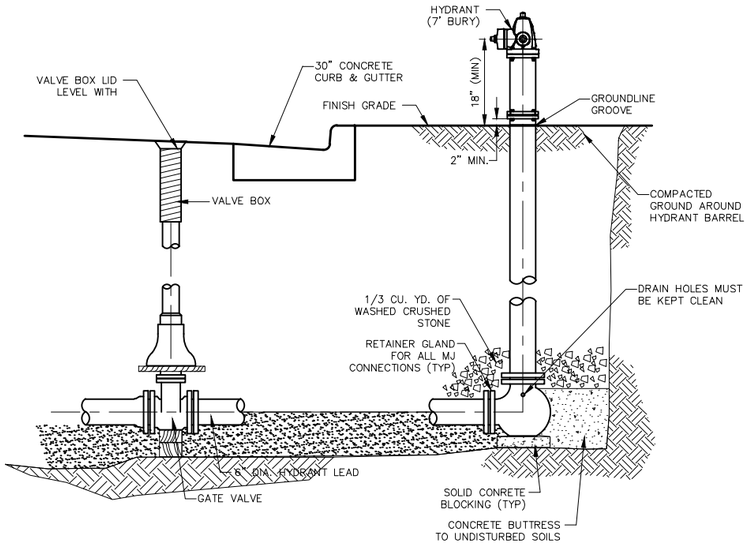
DETAIL OF CURB AND GUTTER AT INLETS

(TYPE 3-H INLET SHOWN)

NOTE
TEMPORARY PEDESTRIAN WEDGE SHALL BE INCIDENTAL TO HMA PAVEMENT 4 LT 58-28 S

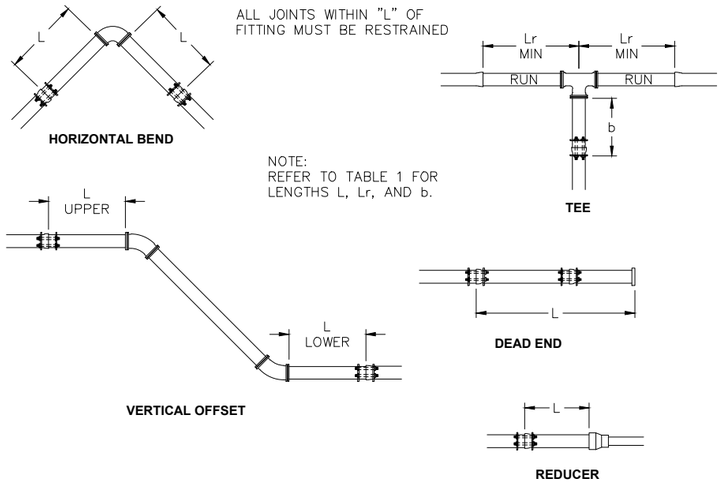


TEMPORARY PEDESTRIAN WEDGE



NOTE :
REFER TO FILE NO. 38 OF THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN" FOR FURTHER INFORMATION

1 / 18 **HYDRANT SETTING DETAIL** NO SCALE
WT-HYD-04 16



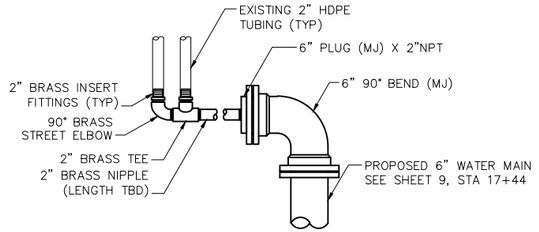
2 / 18 **JOINT RESTRAINT DETAIL** NO SCALE
WT-BR-03 4

TABLE 1
Retaining Gland Restraint - Minimum Distances

Refer to File No. 47A Standard Specifications for Sewer & Water Construction in Wisconsin

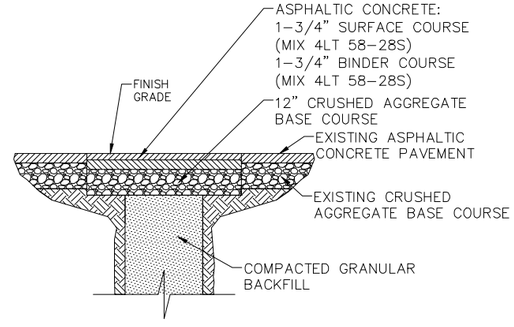
Horizontal Bends			**Joint Restraint Length (L) in Feet**	
Material	**Size**	**Angle (degrees)**	**Length (for each side)**	
DIP	12"	11-1/4	2	
DIP	12"	22-1/2	4	
DIP	12"	45	8	
DIP	10"	11-1/4	2	
DIP	10"	22-1/2	3	
DIP	10"	45	7	
DIP	8"	11-1/4	2	
DIP	8"	22-1/2	3	
DIP	8"	45	6	
DIP	6"	11-1/4	1	
DIP	6"	22-1/2	2	
DIP	6"	45	4	
DIP	12"	90	18	
DIP	10"	90	15	
DIP	8"	90	13	
DIP	6"	90	10	
Dead End			**Joint Restraint Length (L) in Feet**	
Material	**Size**		**Length**	
DIP	12"		32	
DIP	10"		27	
DIP	8"		22	
DIP	6"		17	
Tees & Crosses			**Joint Restraint Length (L) in Feet**	
Material	**Size**	**Main (Lr)**	**Branch (b)**	
DIP	12" x 12"	5	20	
DIP	12" x 10"	5	13	
DIP	12" x 8"	5	5	
DIP	12" x 6"	5	1	
DIP	10" x 10"	5	25	
DIP	10" x 8"	5	8	
DIP	10" x 6"	5	1	
DIP	8" x 8"	5	11	
DIP	8" x 6"	5	2	
DIP	6" x 6"	5	5	
Reducer			**Joint Restraint Length (L) in Feet**	
Material	**Size**		**Length**	
DIP	12" x 10"		10	
DIP	12" x 8"		17	
DIP	12" x 6"		23	
DIP	10" x 8"		9	
DIP	10" x 6"		17	
DIP	8" x 6"		10	
Vertical Offset			**Joint Restraint Length (L) in Feet**	
Material	**Size**	**Angle (degrees)**	**Upper**	**Lower**
DIP	12"	11-1/4	4	3
DIP	12"	22-1/2	7	6
DIP	12"	45	13	13
DIP	10"	11-1/4	3	3
DIP	10"	22-1/2	6	5
DIP	10"	45	11	11
DIP	8"	11-1/4	3	3
DIP	8"	22-1/2	5	5
DIP	8"	45	10	9
DIP	6"	11-1/4	2	2
DIP	6"	22-1/2	4	4
DIP	6"	45	7	7

Notes:
1) All joints within Length "L" of fitting must be restrained.
2) Restraint lengths calculating using EBBA iron restrained length calculator, Version 7.1.2.
3) Assumes: CL soils (Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays) backfilled width granular material
4) Assumes: Trench Type 3
5) Assumes: Depth of Bury to be 7 feet of cover.
6) Assumes: Test Pressure of 150.

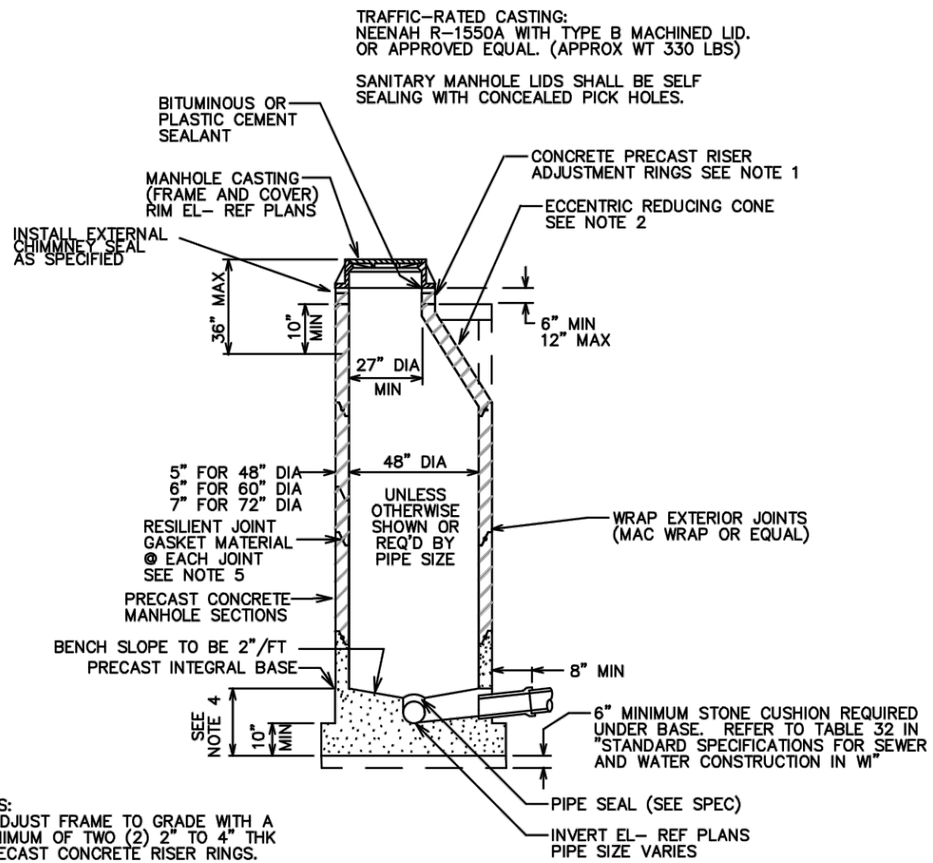


NOTE: FITTINGS SHOWN ARE NOT MEANT TO BE ALL INCLUSIVE. CONTRACTOR SHALL VERIFY AND PROVIDE NECESSARY FITTINGS TO RE-CONNECT THE EXISTING HDPE TUBING TO THE NEW 6" WATER MAIN.

3 / 18 **SOCCER FIELD IRRIGATION RECONNECTION DETAIL** NO SCALE
Soccer Field Irrigation Connection Deatil



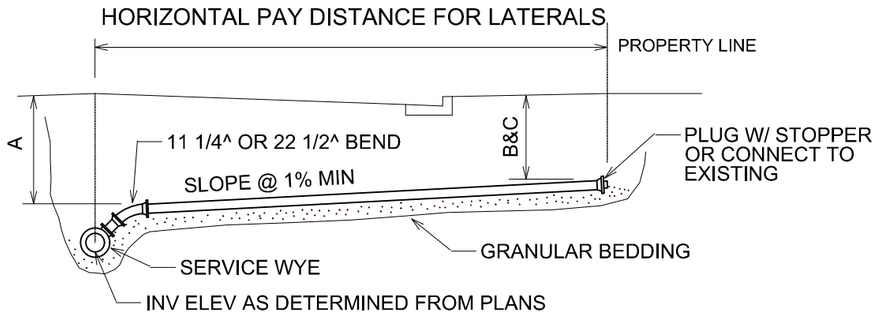
4 / 18 **TYPICAL SIDE ROAD PAVEMENT RESTORATION SECTION** NO SCALE
UT-TRENCH-05 24



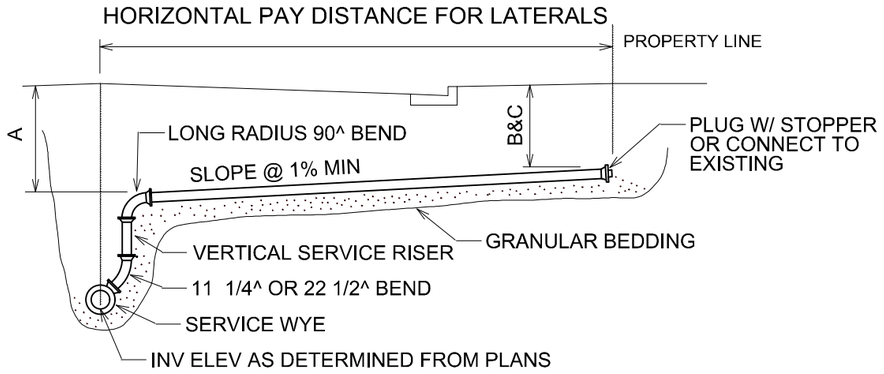
NOTES:

1. ADJUST FRAME TO GRADE WITH A MINIMUM OF TWO (2) 2" TO 4" THK PRECAST CONCRETE RISER RINGS.
2. POSITION HOLE IN CONE OR REDUCING SLAB ON UPSTREAM SIDE OF MANHOLE.
3. TOP CONE SECTION SHALL BE USED ON 48" DIA MANHOLES, UNLESS MINIMUM HEIGHT CONDITIONS REQUIRE A FLAT TOP REDUCING SLAB. REDUCING SLAB MAY BE USED ON MANHOLES 60" IN DIA OR LARGER.
4. CONCRETE FOR CAST–IN–PLACE BASE SECTIONS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. THE MINIMUM CEMENT CONTENT SHALL BE 5? BAGS PER CUBIC YARD OF CONCRETE. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615 GRADE 60.
5. JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING BUTYL RUBBER GASKETS AND SEALED EXTERNALLY USING MACWRAP OR APPROVED EQUAL.
6. CONCRETE BLOCK OR BRICK MANHOLES NOT ALLOWED

REV. 04/24/2013



STANDARD INSTALLATION WITHOUT RISER



STANDARD INSTALLATION WITH RISER

NOTES:

A) MIN DEPTH OF COVER UNDER ROADWAY TO BE 7'-0"

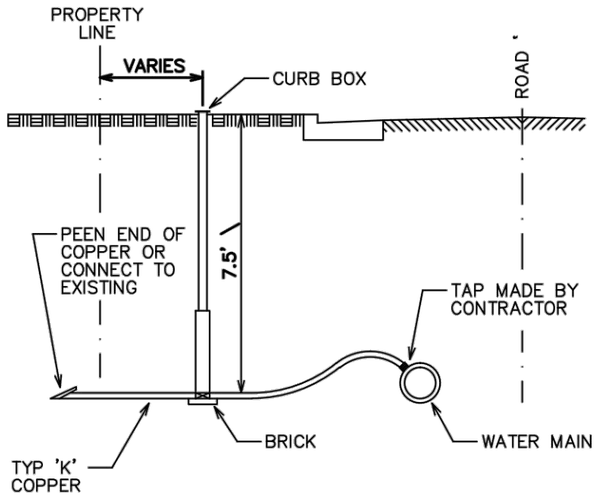
B) MIN DEPTH OF COVER UNDER ANY PORTION OF GRASS AREAS TO 5'-0"

C) MIN DEPTH OF COVER AT PROPERTY LINE TO 9'-0" OR AS REQUIRED TO SERVE EXISTING DEVELOPMENT.

Celebrate COLUMBUS	CITY OF COLUMBUS DEPARTMENT OF PUBLIC WORKS MANHOLE DETAIL TYPE 1 STANDARD DETAIL DRAWING	REVISED 04/21/11	CITY OF COLUMBUS STANDARD DETAILS

FIGURE 1

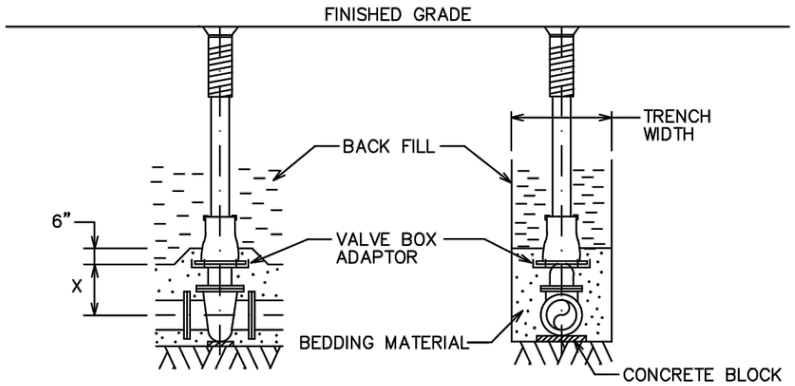
SANITARY SEWER LATERAL



NOTE: TAP WATER MAIN ON 45^ WITH PIPE. MINIMUM SEPARATION BETWEEN SERVICES SHALL BE 12" VERTICAL AND 18" HORIZONTAL.

WATER MAIN SERVICE INSTALLATION

NOT TO SCALE



SIDE VIEW

PIPE DIA (INCHES)	X=SETTING (INCHES)
2	6
3	7
4	8
6	12
8	13

FRONT VIEW

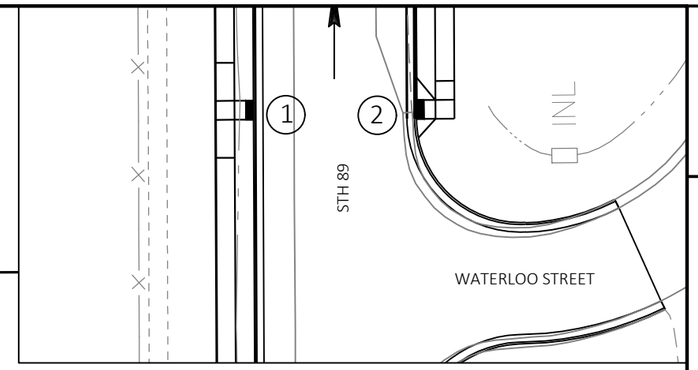
PIPE DIA (INCHES)	X=SETTING (INCHES)
10	17
12	21
14	25
16	30

STANDARD VALVE BOX SETTING

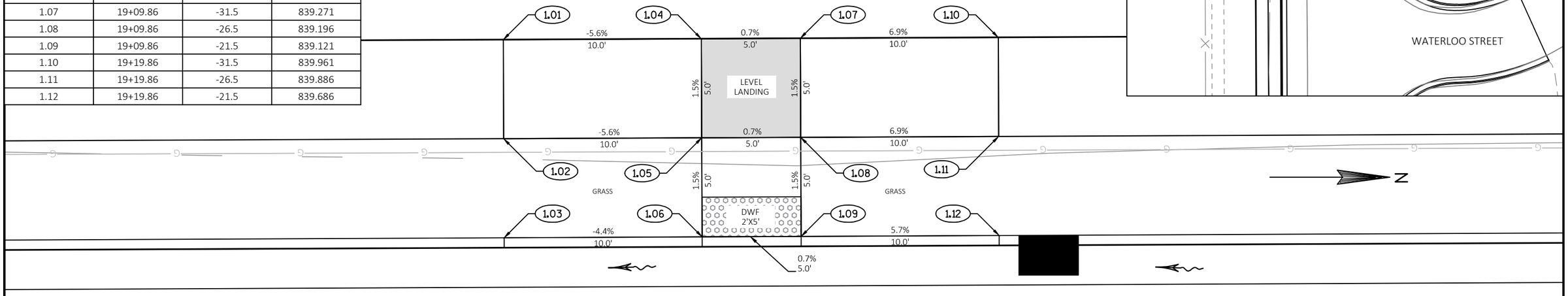
NOT TO SCALE

CURB RAMP 1 DATA TABLE			
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
1.01	18+94.86	-31.5	839.798
1.02	18+94.86	-26.5	839.723
1.03	18+94.86	-21.5	839.523
1.04	19+04.86	-31.5	839.238
1.05	19+04.86	-26.5	839.163
1.06	19+04.86	-21.5	839.088
1.07	19+09.86	-31.5	839.271
1.08	19+09.86	-26.5	839.196
1.09	19+09.86	-21.5	839.121
1.10	19+19.86	-31.5	839.961
1.11	19+19.86	-26.5	839.886
1.12	19+19.86	-21.5	839.686

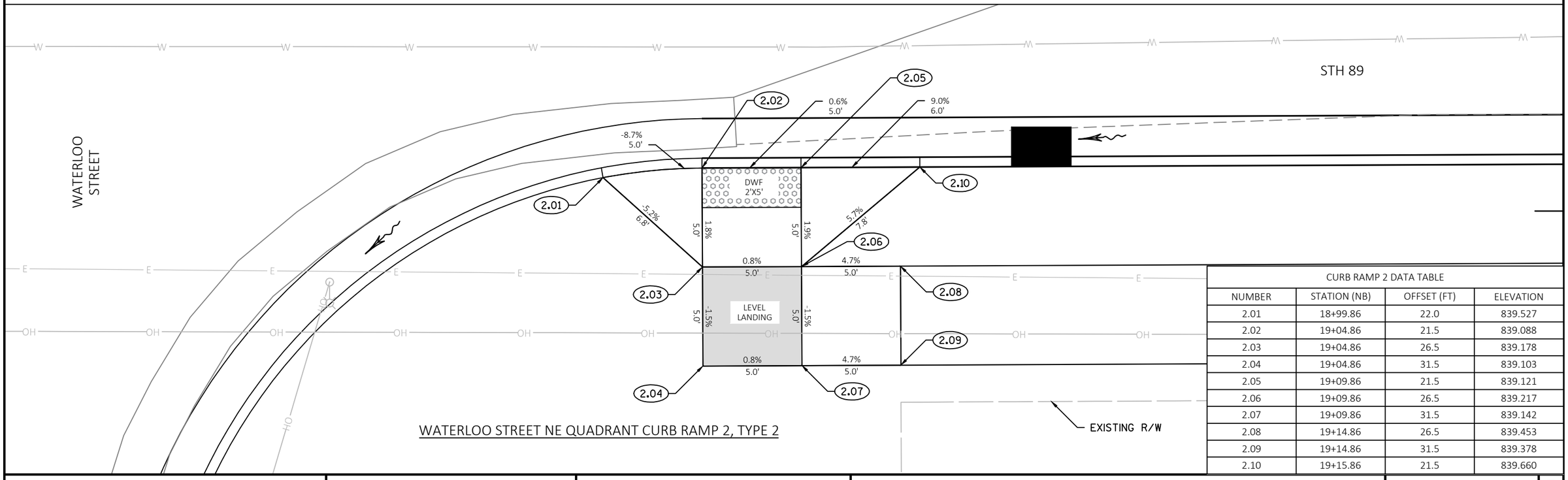
NOTES:
REFER TO SDD 8D5 "CURB RAMPS' FOR JOINT LOCATIONS AND ADDITIONAL DETAILS



WATERLOO STREET NW QUADRANT CURB RAMP 1, TYPE 7B



STH 89



WATERLOO STREET NE QUADRANT CURB RAMP 2, TYPE 2

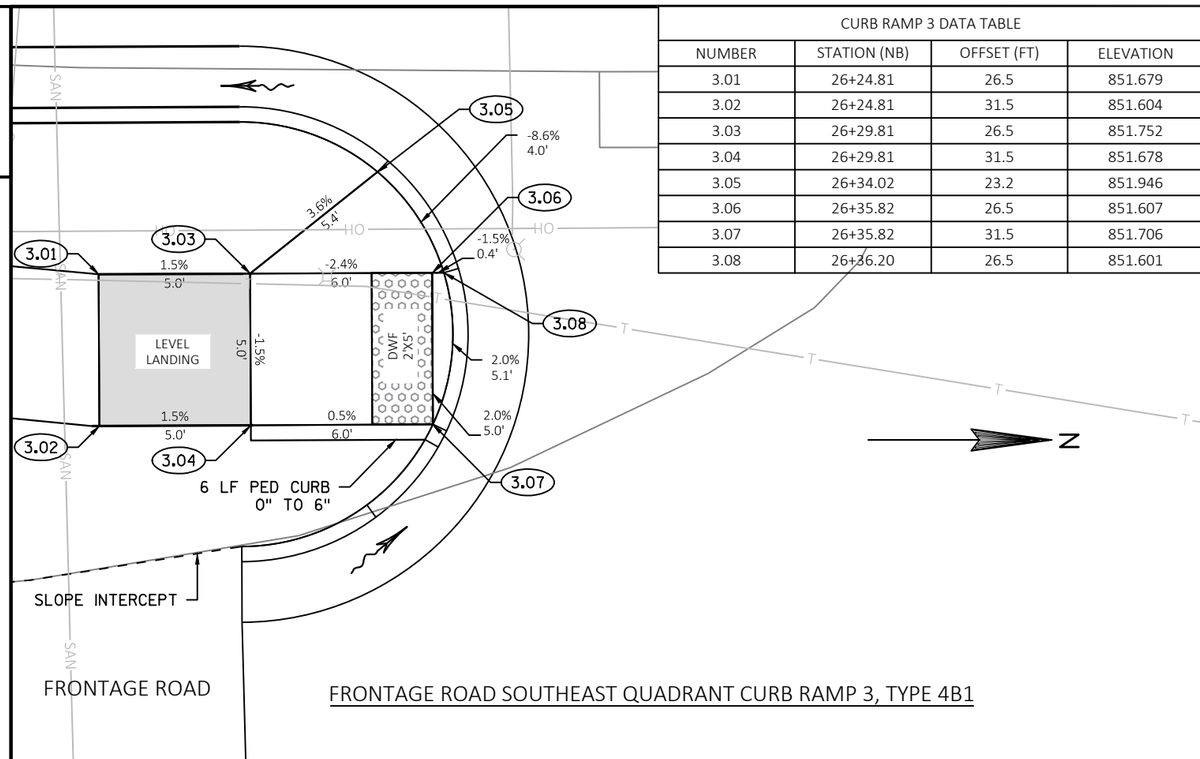
CURB RAMP 2 DATA TABLE			
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
2.01	18+99.86	22.0	839.527
2.02	19+04.86	21.5	839.088
2.03	19+04.86	26.5	839.178
2.04	19+04.86	31.5	839.103
2.05	19+09.86	21.5	839.121
2.06	19+09.86	26.5	839.217
2.07	19+09.86	31.5	839.142
2.08	19+14.86	26.5	839.453
2.09	19+14.86	31.5	839.378
2.10	19+15.86	21.5	839.660

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CURB RAMP DETAILS	SHEET 18	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021001_CD.DWG
LAYOUT NAME - 021001_cd07
PLOT DATE : 6/7/2021 11:15 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

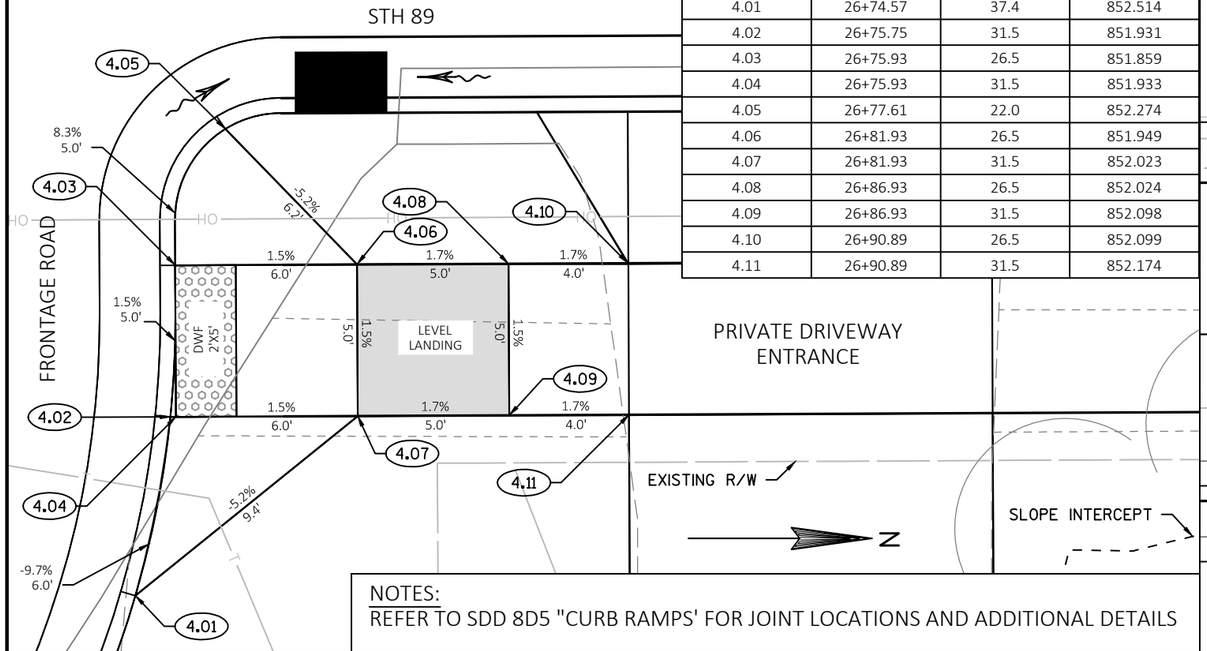
CURB RAMP 3 DATA TABLE			
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
3.01	26+24.81	26.5	851.679
3.02	26+24.81	31.5	851.604
3.03	26+29.81	26.5	851.752
3.04	26+29.81	31.5	851.678
3.05	26+34.02	23.2	851.946
3.06	26+35.82	26.5	851.607
3.07	26+35.82	31.5	851.706
3.08	26+36.20	26.5	851.601



FRONTAGE ROAD SOUTHEAST QUADRANT CURB RAMP 3, TYPE 4B1

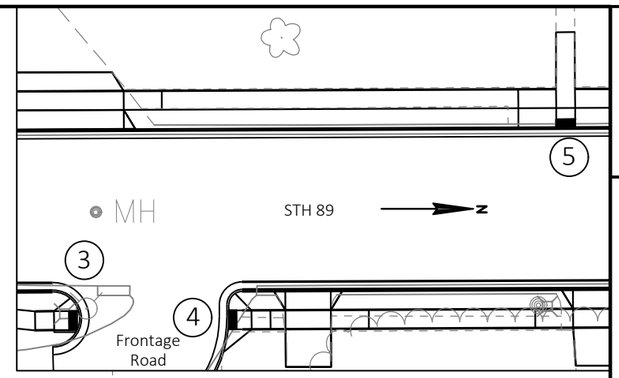
CURB RAMP 4 DATA TABLE			
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
4.01	26+74.57	37.4	852.514
4.02	26+75.75	31.5	851.931
4.03	26+75.93	26.5	851.859
4.04	26+75.93	31.5	851.933
4.05	26+77.61	22.0	852.274
4.06	26+81.93	26.5	851.949
4.07	26+81.93	31.5	852.023
4.08	26+86.93	26.5	852.024
4.09	26+86.93	31.5	852.098
4.10	26+90.89	26.5	852.099
4.11	26+90.89	31.5	852.174

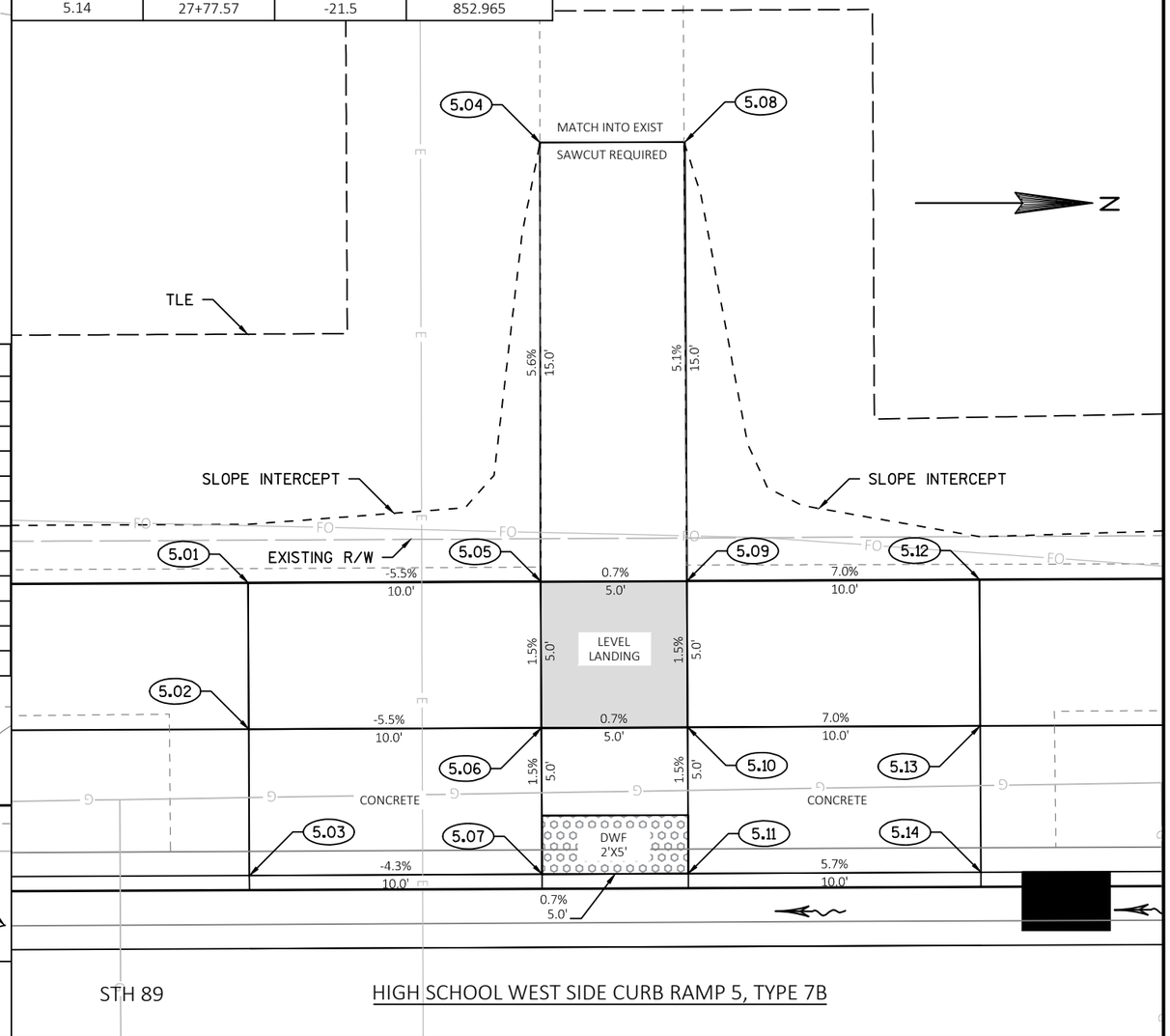
FRONTAGE ROAD NORTHEAST QUADRANT CURB RAMP 4, TYPE 4B1



NOTES:
REFER TO SDD 8D5 "CURB RAMPS' FOR JOINT LOCATIONS AND ADDITIONAL DETAILS

CURB RAMP 5 DATA TABLE			
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
5.01	27+52.57	-31.5	853.062
5.02	27+52.57	-26.5	852.987
5.03	27+52.57	-21.5	852.787
5.04	27+62.62	-46.5	853.347
5.05	27+62.57	-31.5	852.508
5.06	27+62.57	-26.5	852.433
5.07	27+62.57	-21.5	852.358
5.08	27+67.54	-46.5	853.314
5.09	27+67.57	-31.5	852.544
5.10	27+67.57	-26.5	852.469
5.11	27+67.57	-21.5	852.394
5.12	27+77.57	-31.5	853.240
5.13	27+77.57	-26.5	853.165
5.14	27+77.57	-21.5	852.965





STH 89

HIGH SCHOOL WEST SIDE CURB RAMP 5, TYPE 7B

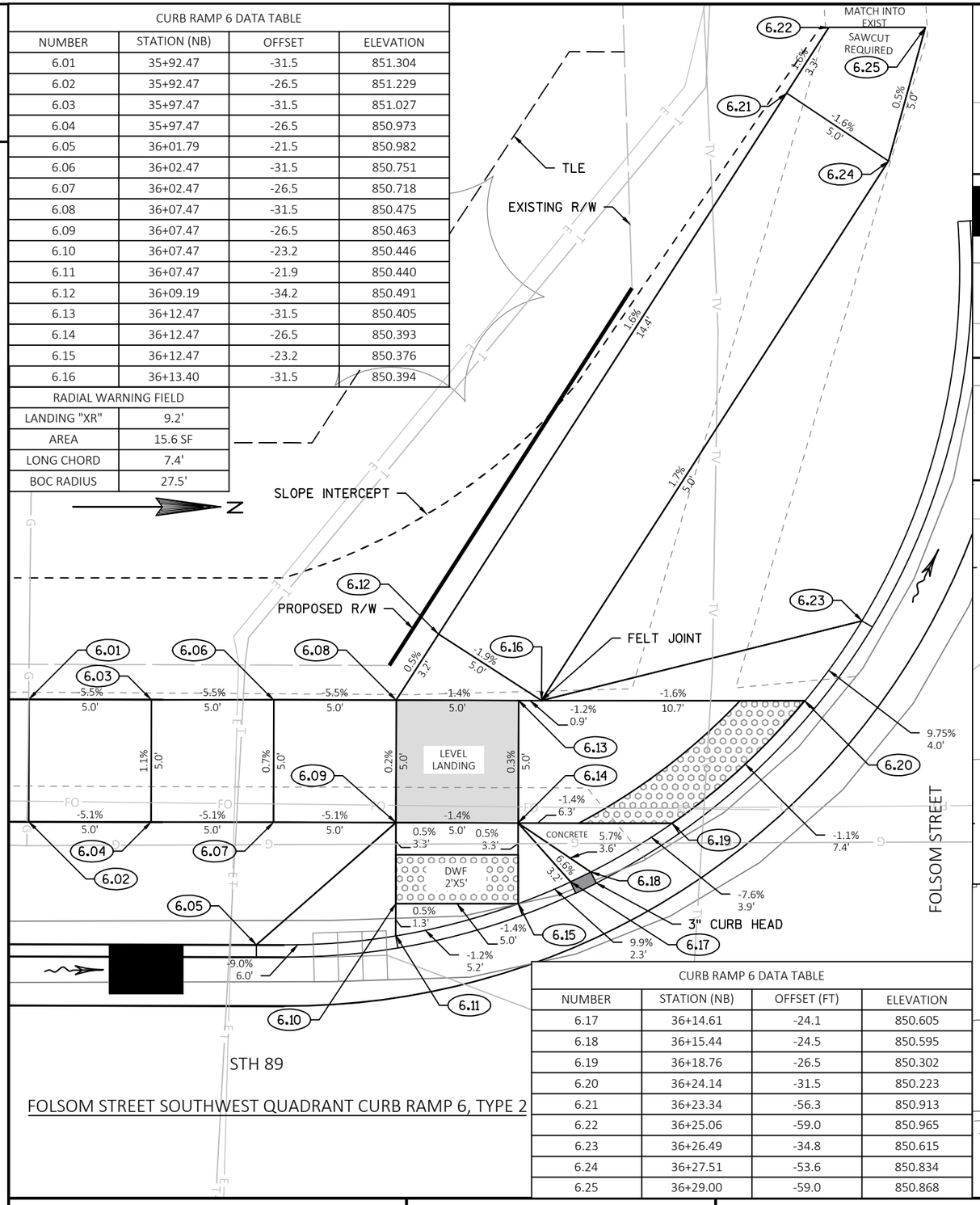
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CURB RAMP DETAILS	SHEET 19	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021001_CD.DWG
LAYOUT NAME - 021001_cd08
PLOT DATE : 6/7/2021 11:15 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

CURB RAMP 6 DATA TABLE			
NUMBER	STATION (NB)	OFFSET	ELEVATION
6.01	35+92.47	-31.5	851.304
6.02	35+92.47	-26.5	851.229
6.03	35+97.47	-31.5	851.027
6.04	35+97.47	-26.5	850.973
6.05	36+01.79	-21.5	850.982
6.06	36+02.47	-31.5	850.751
6.07	36+02.47	-26.5	850.718
6.08	36+07.47	-31.5	850.475
6.09	36+07.47	-26.5	850.463
6.10	36+07.47	-23.2	850.446
6.11	36+07.47	-21.9	850.440
6.12	36+09.19	-34.2	850.491
6.13	36+12.47	-31.5	850.405
6.14	36+12.47	-26.5	850.393
6.15	36+12.47	-23.2	850.376
6.16	36+13.40	-31.5	850.394

RADIAL WARNING FIELD	
LANDING "XR"	9.2'
AREA	15.6 SF
LONG CHORD	7.4'
BOC RADIUS	27.5'



FOLSOM STREET SOUTHWEST QUADRANT CURB RAMP 6, TYPE 2

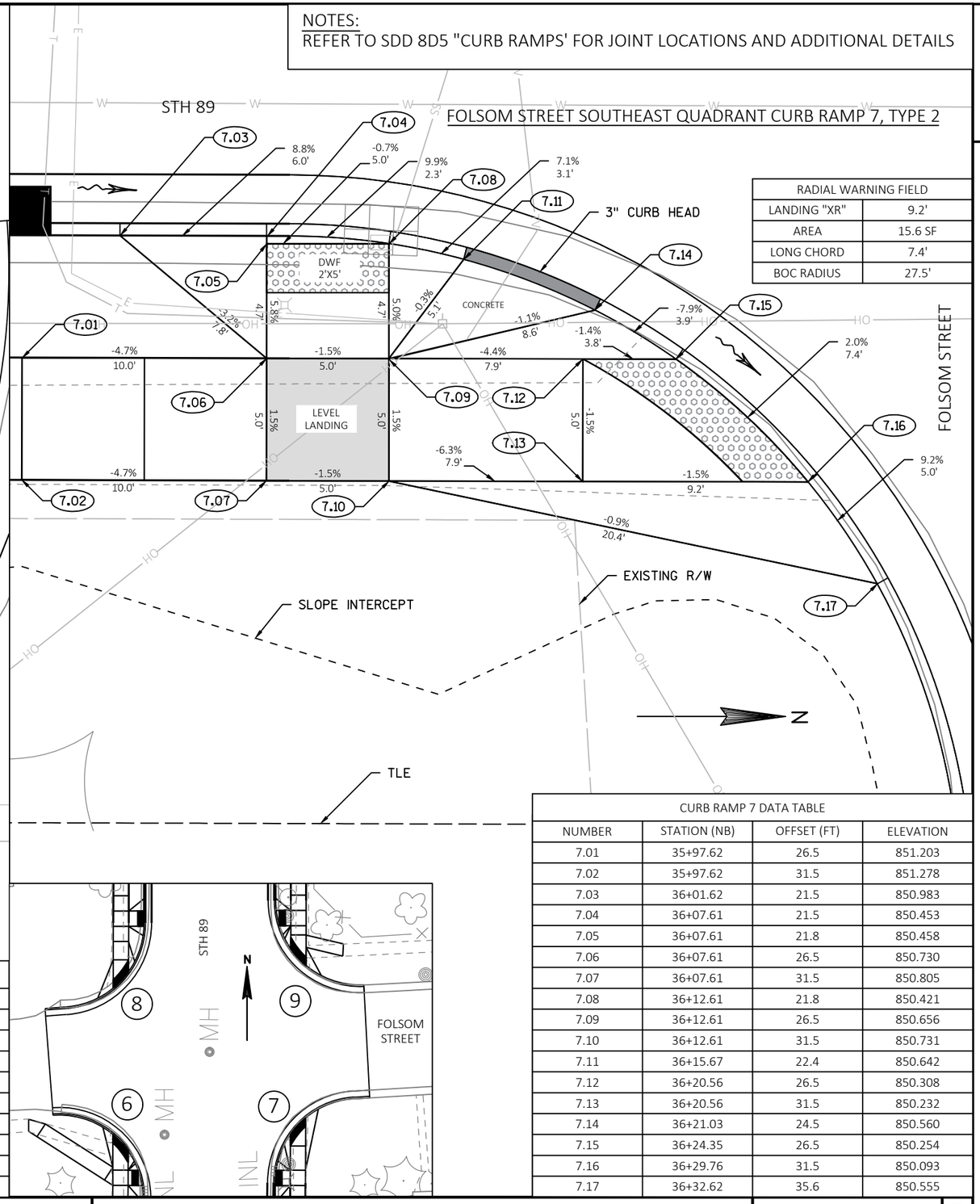
CURB RAMP 6 DATA TABLE			
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
6.17	36+14.61	-24.1	850.605
6.18	36+15.44	-24.5	850.595
6.19	36+18.76	-26.5	850.302
6.20	36+24.14	-31.5	850.223
6.21	36+23.34	-56.3	850.913
6.22	36+25.06	-59.0	850.965
6.23	36+26.49	-34.8	850.615
6.24	36+27.51	-53.6	850.834
6.25	36+29.00	-59.0	850.868

NOTES:
REFER TO SDD 8D5 "CURB RAMPS' FOR JOINT LOCATIONS AND ADDITIONAL DETAILS

2

FOLSOM STREET SOUTHEAST QUADRANT CURB RAMP 7, TYPE 2

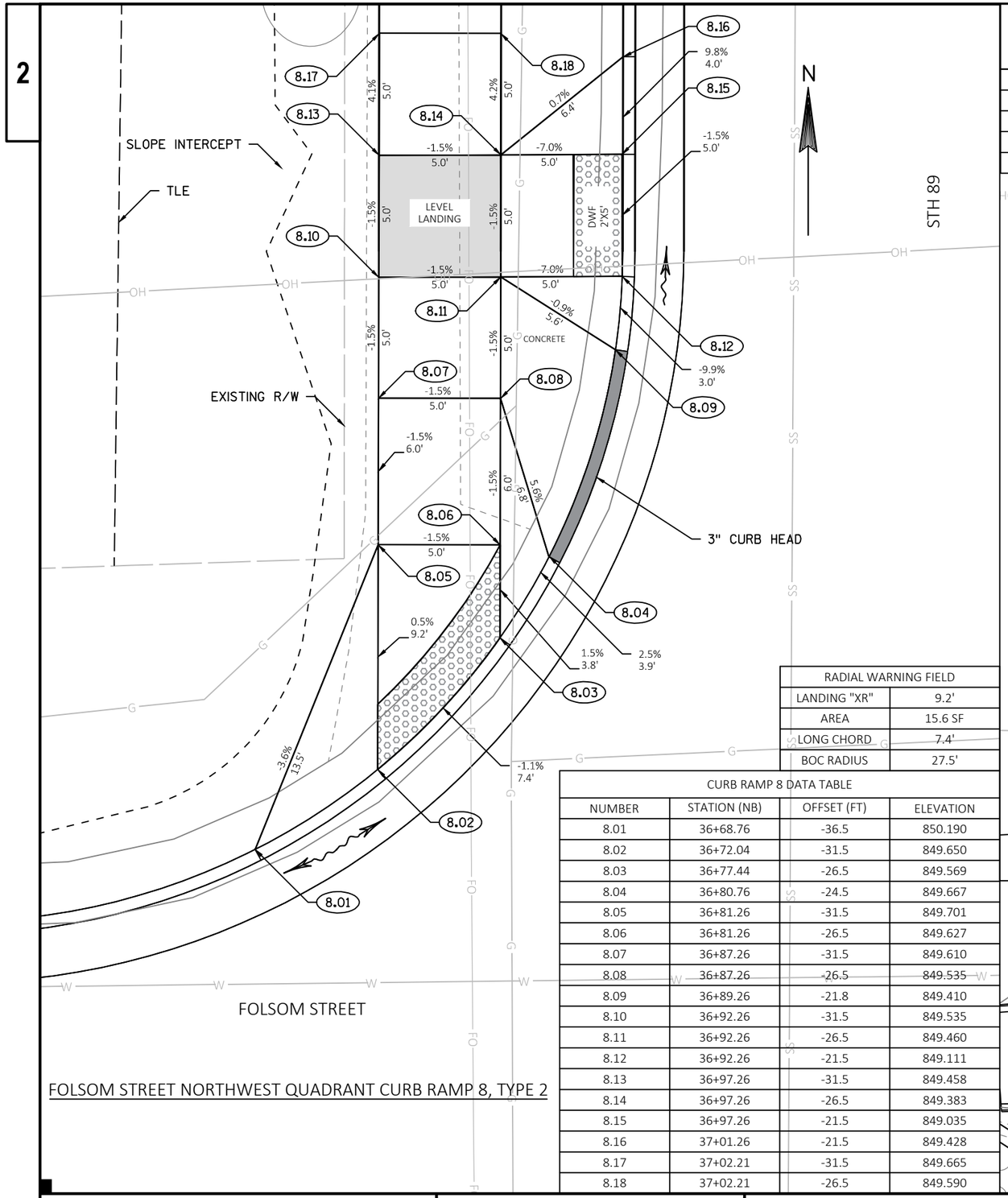
RADIAL WARNING FIELD	
LANDING "XR"	9.2'
AREA	15.6 SF
LONG CHORD	7.4'
BOC RADIUS	27.5'



CURB RAMP 7 DATA TABLE			
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
7.01	35+97.62	26.5	851.203
7.02	35+97.62	31.5	851.278
7.03	36+01.62	21.5	850.983
7.04	36+07.61	21.5	850.453
7.05	36+07.61	21.8	850.458
7.06	36+07.61	26.5	850.730
7.07	36+07.61	31.5	850.805
7.08	36+12.61	21.8	850.421
7.09	36+12.61	26.5	850.656
7.10	36+12.61	31.5	850.731
7.11	36+15.67	22.4	850.642
7.12	36+20.56	26.5	850.308
7.13	36+20.56	31.5	850.232
7.14	36+21.03	24.5	850.560
7.15	36+24.35	26.5	850.254
7.16	36+29.76	31.5	850.093
7.17	36+32.62	35.6	850.555

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CURB RAMP DETAILS	SHEET 20	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021001_CD.DWG
LAYOUT NAME - 021001_cd09
PLOT DATE : 6/7/2021 11:15 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



FOLSOM STREET NORTHWEST QUADRANT CURB RAMP 8, TYPE 2

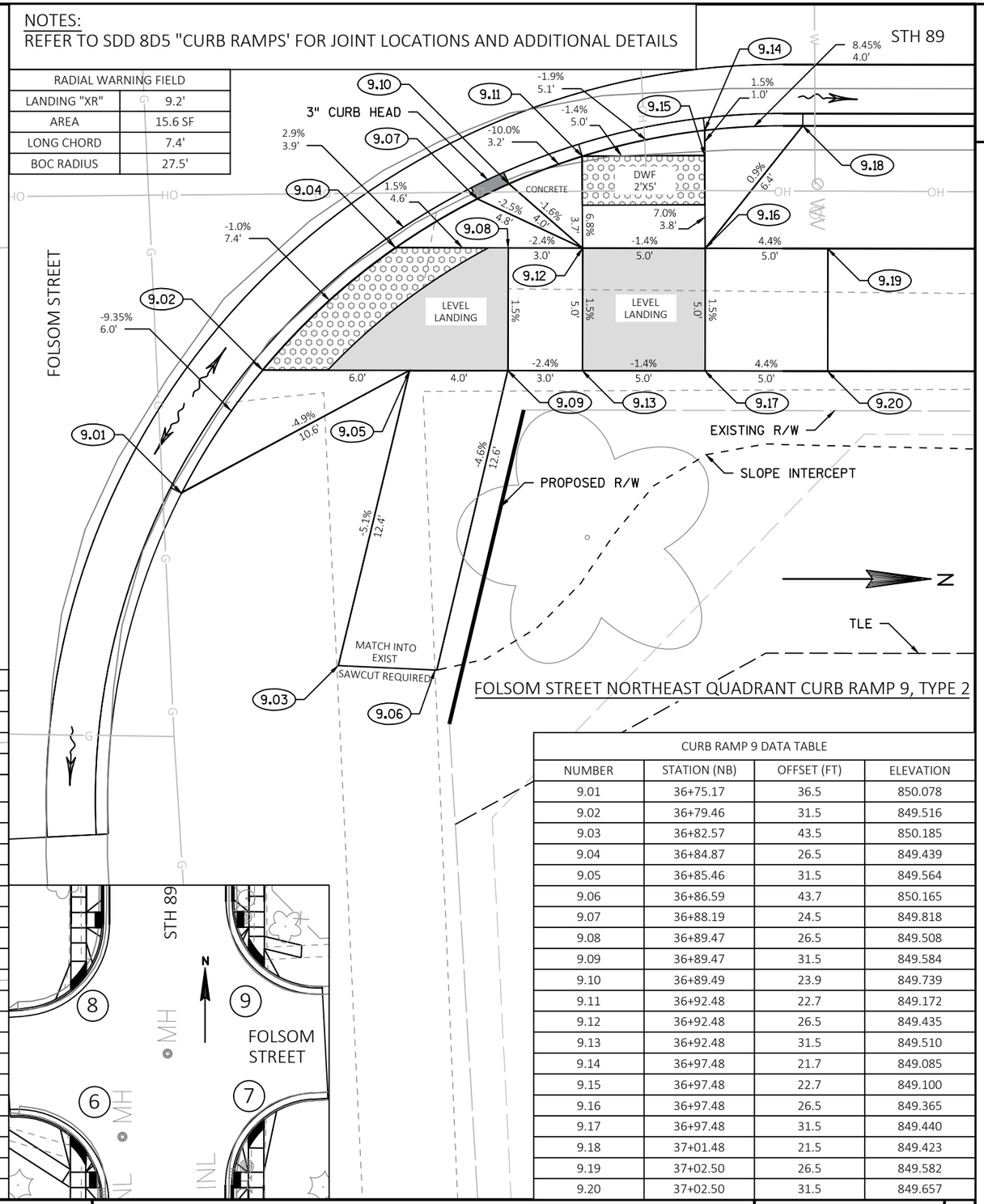
RADIAL WARNING FIELD	
LANDING "XR"	9.2'
AREA	15.6 SF
LONG CHORD	7.4'
BOC RADIUS	27.5'

CURB RAMP 8 DATA TABLE

NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
8.01	36+68.76	-36.5	850.190
8.02	36+72.04	-31.5	849.650
8.03	36+77.44	-26.5	849.569
8.04	36+80.76	-24.5	849.667
8.05	36+81.26	-31.5	849.701
8.06	36+81.26	-26.5	849.627
8.07	36+87.26	-31.5	849.610
8.08	36+87.26	-26.5	849.535
8.09	36+89.26	-21.8	849.410
8.10	36+92.26	-31.5	849.535
8.11	36+92.26	-26.5	849.460
8.12	36+92.26	-21.5	849.111
8.13	36+97.26	-31.5	849.458
8.14	36+97.26	-26.5	849.383
8.15	36+97.26	-21.5	849.035
8.16	37+01.26	-21.5	849.428
8.17	37+02.21	-31.5	849.665
8.18	37+02.21	-26.5	849.590

NOTES:
REFER TO SDD 8D5 "CURB RAMPS' FOR JOINT LOCATIONS AND ADDITIONAL DETAILS

RADIAL WARNING FIELD	
LANDING "XR"	9.2'
AREA	15.6 SF
LONG CHORD	7.4'
BOC RADIUS	27.5'



FOLSOM STREET NORTHEAST QUADRANT CURB RAMP 9, TYPE 2

CURB RAMP 9 DATA TABLE

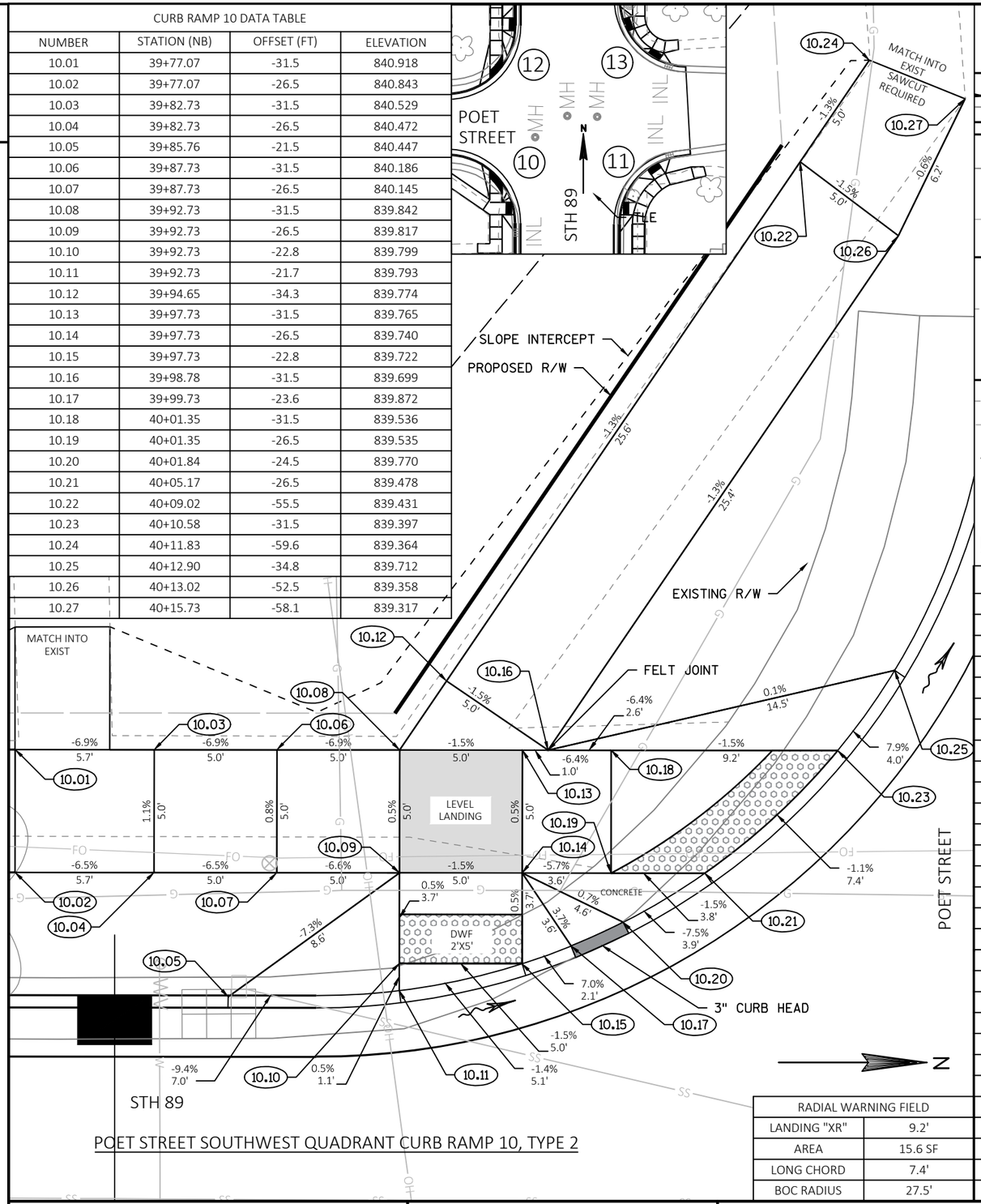
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
9.01	36+75.17	36.5	850.078
9.02	36+79.46	31.5	849.516
9.03	36+82.57	43.5	850.185
9.04	36+84.87	26.5	849.439
9.05	36+85.46	31.5	849.564
9.06	36+86.59	43.7	850.165
9.07	36+88.19	24.5	849.818
9.08	36+89.47	26.5	849.508
9.09	36+89.47	31.5	849.584
9.10	36+89.49	23.9	849.739
9.11	36+92.48	22.7	849.172
9.12	36+92.48	26.5	849.435
9.13	36+92.48	31.5	849.510
9.14	36+97.48	21.7	849.085
9.15	36+97.48	22.7	849.100
9.16	36+97.48	26.5	849.365
9.17	36+97.48	31.5	849.440
9.18	37+01.48	21.5	849.423
9.19	37+02.50	26.5	849.582
9.20	37+02.50	31.5	849.657

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CURB RAMP DETAILS	SHEET 21	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021001_CD.DWG
LAYOUT NAME - 021001_cd10
PLOT DATE : 6/7/2021 11:16 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

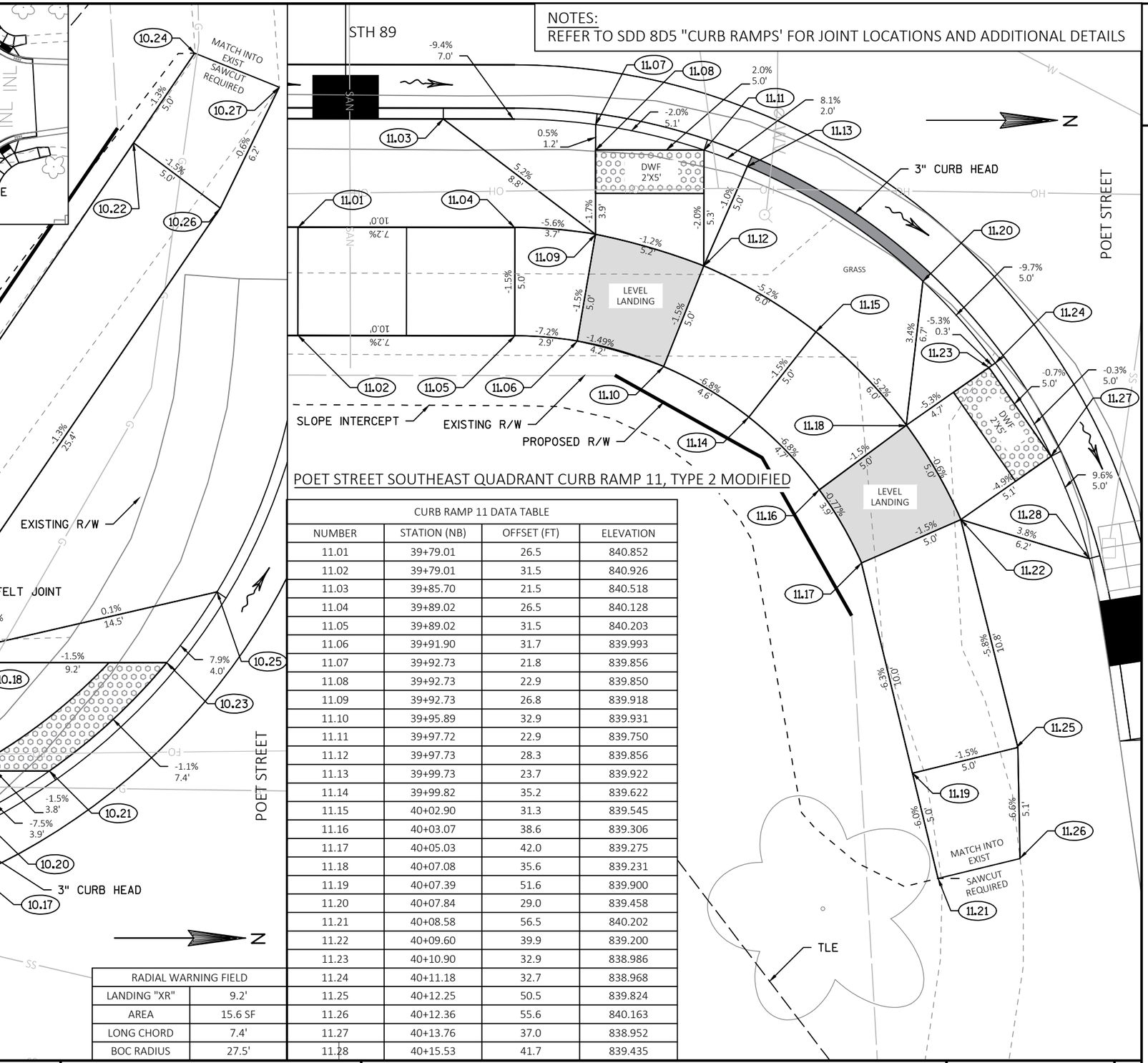
NOTES:
REFER TO SDD 8D5 "CURB RAMPS' FOR JOINT LOCATIONS AND ADDITIONAL DETAILS

CURB RAMP 10 DATA TABLE			
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
10.01	39+77.07	-31.5	840.918
10.02	39+77.07	-26.5	840.843
10.03	39+82.73	-31.5	840.529
10.04	39+82.73	-26.5	840.472
10.05	39+85.76	-21.5	840.447
10.06	39+87.73	-31.5	840.186
10.07	39+87.73	-26.5	840.145
10.08	39+92.73	-31.5	839.842
10.09	39+92.73	-26.5	839.817
10.10	39+92.73	-22.8	839.799
10.11	39+92.73	-21.7	839.793
10.12	39+94.65	-34.3	839.774
10.13	39+97.73	-31.5	839.765
10.14	39+97.73	-26.5	839.740
10.15	39+97.73	-22.8	839.722
10.16	39+98.78	-31.5	839.699
10.17	39+99.73	-23.6	839.872
10.18	40+01.35	-31.5	839.536
10.19	40+01.35	-26.5	839.535
10.20	40+01.84	-24.5	839.770
10.21	40+05.17	-26.5	839.478
10.22	40+09.02	-55.5	839.431
10.23	40+10.58	-31.5	839.397
10.24	40+11.83	-59.6	839.364
10.25	40+12.90	-34.8	839.712
10.26	40+13.02	-52.5	839.358
10.27	40+15.73	-58.1	839.317



POET STREET SOUTHWEST QUADRANT CURB RAMP 10, TYPE 2

RADIAL WARNING FIELD	
LANDING "XR"	9.2'
AREA	15.6 SF
LONG CHORD	7.4'
BOC RADIUS	27.5'



POET STREET SOUTHEAST QUADRANT CURB RAMP 11, TYPE 2 MODIFIED

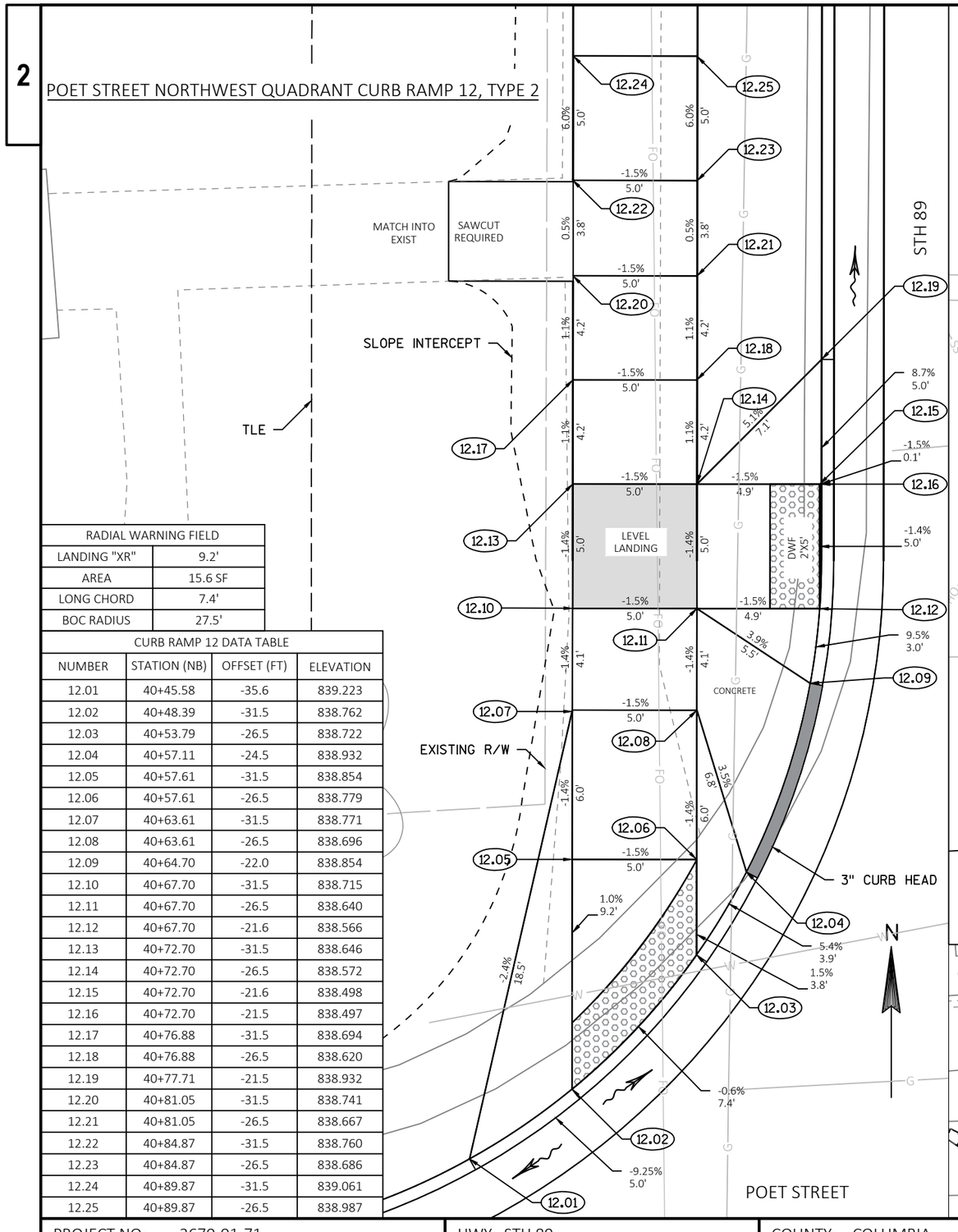
CURB RAMP 11 DATA TABLE			
NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
11.01	39+79.01	26.5	840.852
11.02	39+79.01	31.5	840.926
11.03	39+85.70	21.5	840.518
11.04	39+89.02	26.5	840.128
11.05	39+89.02	31.5	840.203
11.06	39+91.90	31.7	839.993
11.07	39+92.73	21.8	839.856
11.08	39+92.73	22.9	839.850
11.09	39+92.73	26.8	839.918
11.10	39+95.89	32.9	839.931
11.11	39+97.72	22.9	839.750
11.12	39+97.73	28.3	839.856
11.13	39+99.73	23.7	839.922
11.14	39+99.82	35.2	839.622
11.15	40+02.90	31.3	839.545
11.16	40+03.07	38.6	839.306
11.17	40+05.03	42.0	839.275
11.18	40+07.08	35.6	839.231
11.19	40+07.39	51.6	839.900
11.20	40+07.84	29.0	839.458
11.21	40+08.58	56.5	840.202
11.22	40+09.60	39.9	839.200
11.23	40+10.90	32.9	838.986
11.24	40+11.18	32.7	838.968
11.25	40+12.25	50.5	839.824
11.26	40+12.36	55.6	840.163
11.27	40+13.76	37.0	838.952
11.28	40+15.53	41.7	839.435

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CURB RAMP DETAILS	SHEET 22	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021001_CD.DWG
LAYOUT NAME - 021001_cd11
PLOT DATE : 6/7/2021 11:16 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

POET STREET NORTHWEST QUADRANT CURB RAMP 12, TYPE 2



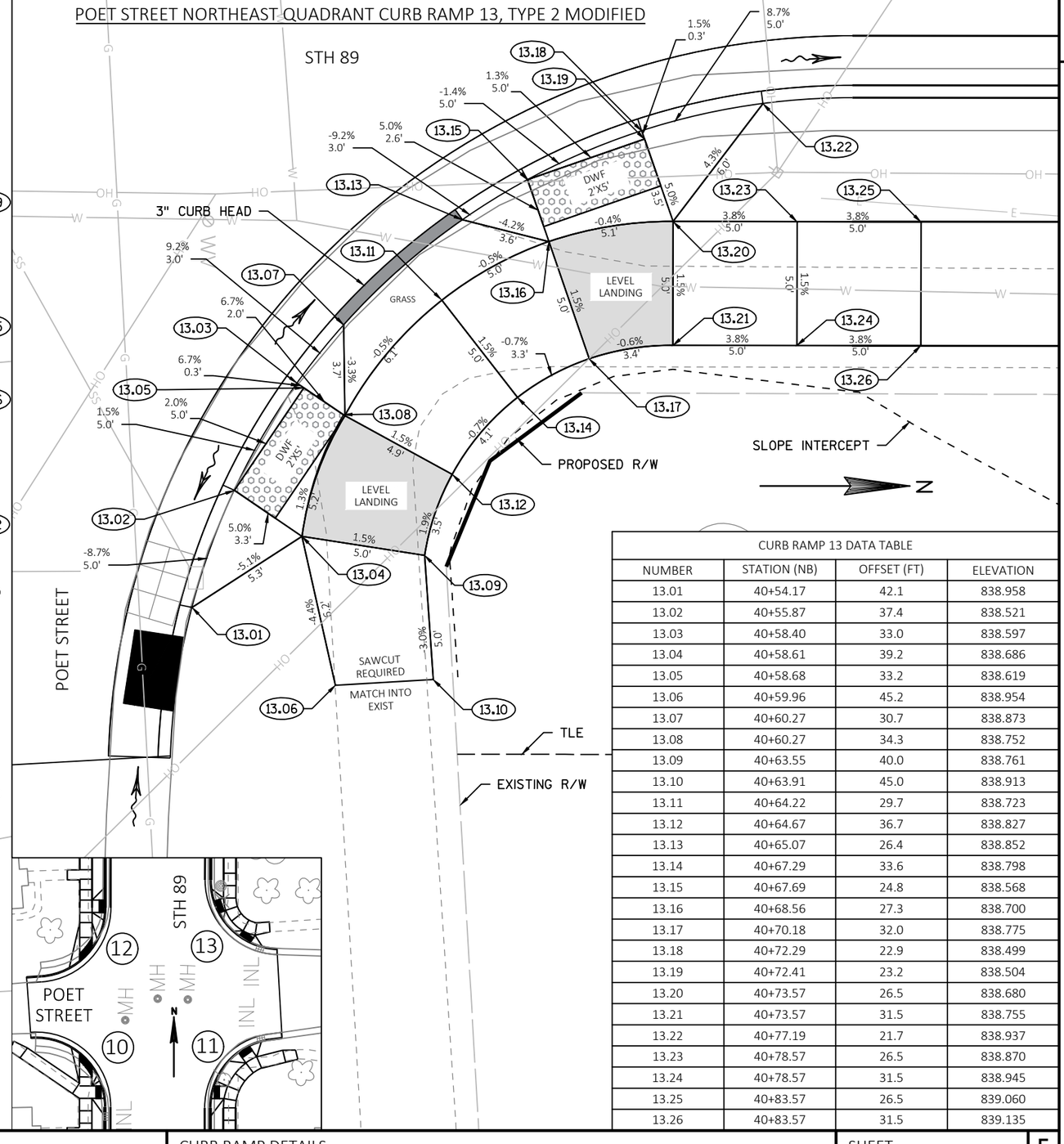
RADIAL WARNING FIELD	
LANDING "XR"	9.2'
AREA	15.6 SF
LONG CHORD	7.4'
BOC RADIUS	27.5'

CURB RAMP 12 DATA TABLE

NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
12.01	40+45.58	-35.6	839.223
12.02	40+48.39	-31.5	838.762
12.03	40+53.79	-26.5	838.722
12.04	40+57.11	-24.5	838.932
12.05	40+57.61	-31.5	838.854
12.06	40+57.61	-26.5	838.779
12.07	40+63.61	-31.5	838.771
12.08	40+63.61	-26.5	838.696
12.09	40+64.70	-22.0	838.854
12.10	40+67.70	-31.5	838.715
12.11	40+67.70	-26.5	838.640
12.12	40+67.70	-21.6	838.566
12.13	40+72.70	-31.5	838.646
12.14	40+72.70	-26.5	838.572
12.15	40+72.70	-21.6	838.498
12.16	40+72.70	-21.5	838.497
12.17	40+76.88	-31.5	838.694
12.18	40+76.88	-26.5	838.620
12.19	40+77.71	-21.5	838.932
12.20	40+81.05	-31.5	838.741
12.21	40+81.05	-26.5	838.667
12.22	40+84.87	-31.5	838.760
12.23	40+84.87	-26.5	838.686
12.24	40+89.87	-31.5	839.061
12.25	40+89.87	-26.5	838.987

NOTES:
REFER TO SDD 8D5 "CURB RAMPS' FOR JOINT LOCATIONS AND ADDITIONAL DETAILS

POET STREET NORTHEAST QUADRANT CURB RAMP 13, TYPE 2 MODIFIED



CURB RAMP 13 DATA TABLE

NUMBER	STATION (NB)	OFFSET (FT)	ELEVATION
13.01	40+54.17	42.1	838.958
13.02	40+55.87	37.4	838.521
13.03	40+58.40	33.0	838.597
13.04	40+58.61	39.2	838.686
13.05	40+58.68	33.2	838.619
13.06	40+59.96	45.2	838.954
13.07	40+60.27	30.7	838.873
13.08	40+60.27	34.3	838.752
13.09	40+63.55	40.0	838.761
13.10	40+63.91	45.0	838.913
13.11	40+64.22	29.7	838.723
13.12	40+64.67	36.7	838.827
13.13	40+65.07	26.4	838.852
13.14	40+67.29	33.6	838.798
13.15	40+67.69	24.8	838.568
13.16	40+68.56	27.3	838.700
13.17	40+70.18	32.0	838.775
13.18	40+72.29	22.9	838.499
13.19	40+72.41	23.2	838.504
13.20	40+73.57	26.5	838.680
13.21	40+73.57	31.5	838.755
13.22	40+77.19	21.7	838.937
13.23	40+78.57	26.5	838.870
13.24	40+78.57	31.5	838.945
13.25	40+83.57	26.5	839.060
13.26	40+83.57	31.5	839.135

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CURB RAMP DETAILS	SHEET 23	E

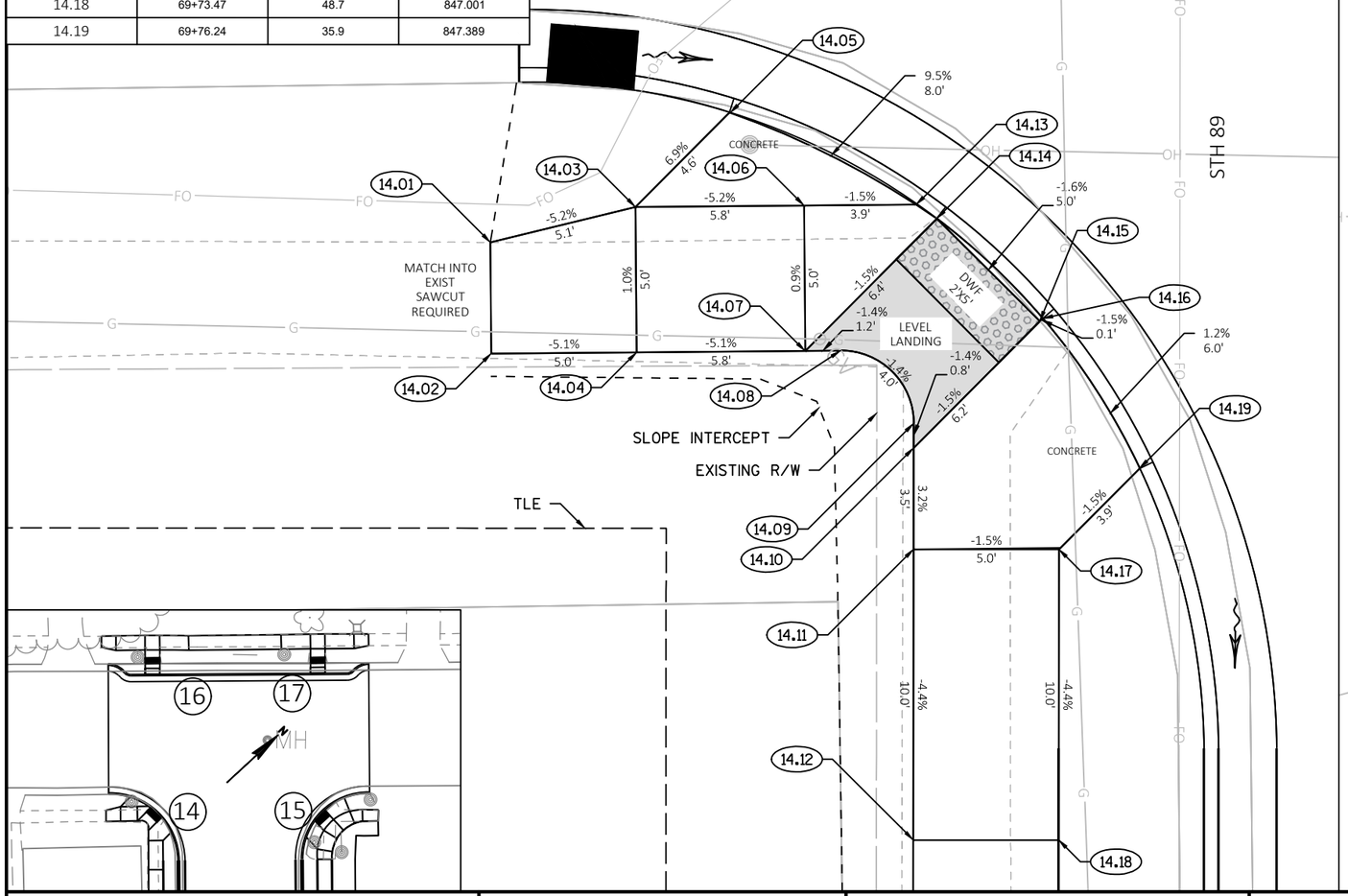
2

CURB RAMP 14 DATA TABLE			
NUMBER	STATION (EB)	OFFSET (FT)	ELEVATION
14.01	69+53.92	28.1	848.102
14.02	69+53.92	31.9	848.046
14.03	69+58.91	26.9	847.837
14.04	69+58.91	31.9	847.790
14.05	69+62.15	23.7	848.156
14.06	69+64.75	26.9	847.537
14.07	69+64.75	31.9	847.493
14.08	69+65.96	31.9	847.476
14.09	69+68.48	34.4	847.420
14.10	69+68.48	35.2	847.408
14.11	69+68.48	38.7	847.519
14.12	69+68.48	48.7	847.077
14.13	69+68.56	26.8	847.479
14.14	69+69.27	27.3	847.397
14.15	69+72.82	30.8	847.316
14.16	69+72.91	30.7	847.313
14.17	69+73.47	38.7	847.446
14.18	69+73.47	48.7	847.001
14.19	69+76.24	35.9	847.389

NOTES:
REFER TO SDD 8D5 "CURB RAMPS' FOR JOINT LOCATIONS AND ADDITIONAL DETAILS

STH 73/PARK AVENUE

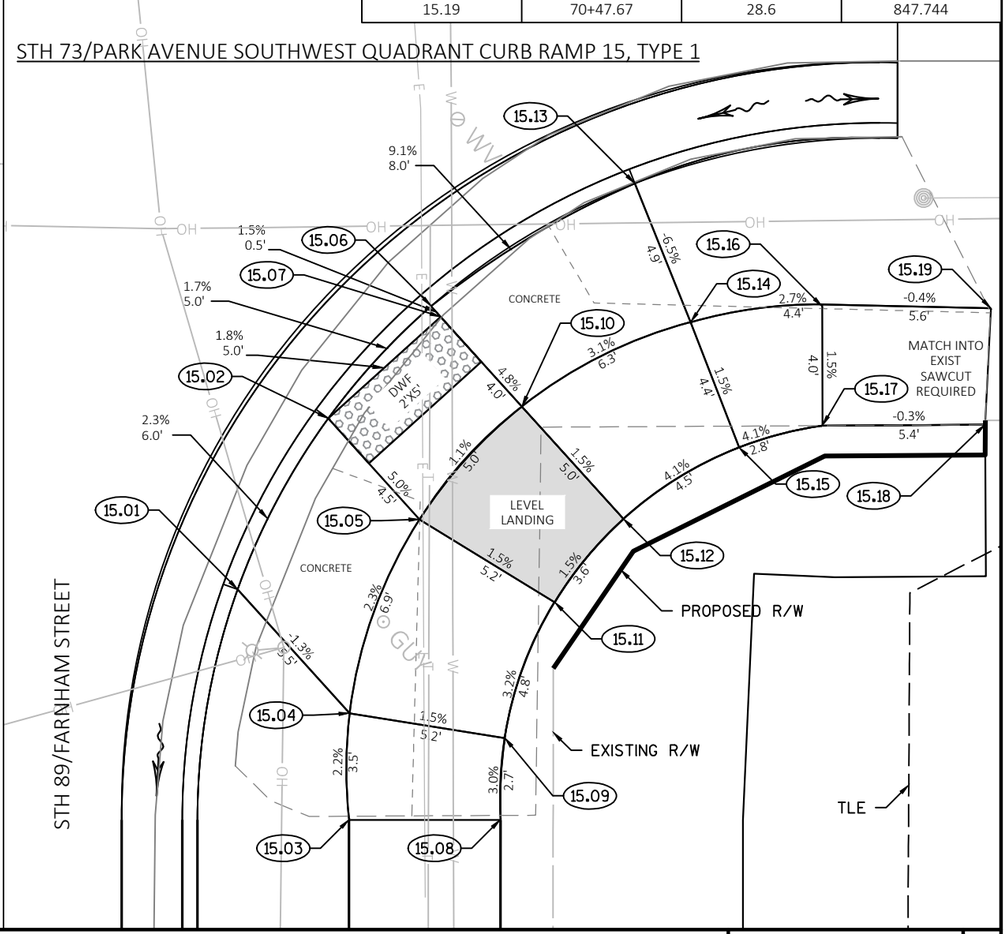
STH 73/PARK AVENUE SOUTHWEST QUADRANT CURB RAMP 14, TYPE 1A



STH 73/PARK AVENUE

CURB RAMP 15 DATA TABLE			
NUMBER	STATION (EB)	OFFSET (FT)	ELEVATION
15.01	70+22.82	37.9	847.250
15.02	70+25.80	32.3	847.106
15.03	70+26.49	45.5	847.098
15.04	70+26.54	42.0	847.177
15.05	70+28.82	35.6	847.331
15.06	70+29.19	28.6	847.190
15.07	70+29.51	28.9	847.197
15.08	70+31.50	45.5	847.173
15.09	70+31.63	42.8	847.254
15.10	70+32.19	31.9	847.387
15.11	70+33.27	38.3	847.409
15.12	70+35.53	35.6	847.461
15.13	70+35.91	24.5	847.902
15.14	70+37.76	29.1	847.581
15.15	70+39.36	33.2	847.645
15.16	70+42.10	28.5	847.694
15.17	70+42.11	32.5	847.761
15.18	70+47.47	32.5	847.677
15.19	70+47.67	28.6	847.744

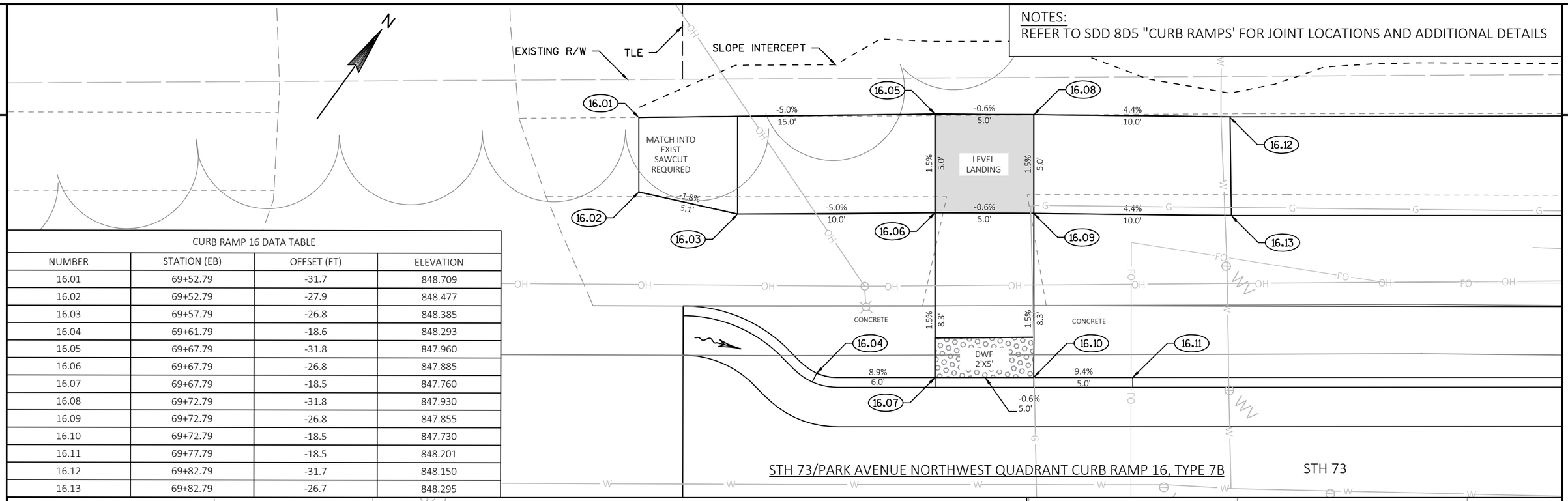
STH 73/PARK AVENUE SOUTHWEST QUADRANT CURB RAMP 15, TYPE 1



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CURB RAMP DETAILS	SHEET 24	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021001_CD.DWG
LAYOUT NAME - 021001_cd13
PLOT DATE : 6/7/2021 11:17 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : ##########

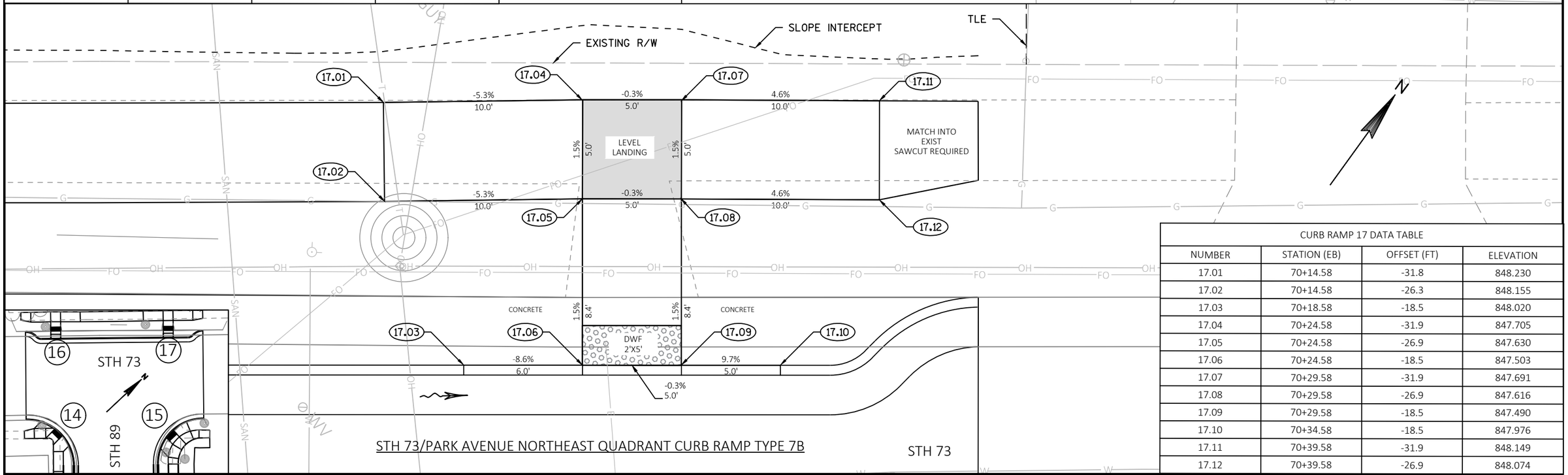
NOTES:
REFER TO SDD 8D5 "CURB RAMPS' FOR JOINT LOCATIONS AND ADDITIONAL DETAILS



STH 73/PARK AVENUE NORTHWEST QUADRANT CURB RAMP 16, TYPE 7B

STH 73

CURB RAMP 16 DATA TABLE			
NUMBER	STATION (EB)	OFFSET (FT)	ELEVATION
16.01	69+52.79	-31.7	848.709
16.02	69+52.79	-27.9	848.477
16.03	69+57.79	-26.8	848.385
16.04	69+61.79	-18.6	848.293
16.05	69+67.79	-31.8	847.960
16.06	69+67.79	-26.8	847.885
16.07	69+67.79	-18.5	847.760
16.08	69+72.79	-31.8	847.930
16.09	69+72.79	-26.8	847.855
16.10	69+72.79	-18.5	847.730
16.11	69+77.79	-18.5	848.201
16.12	69+82.79	-31.7	848.150
16.13	69+82.79	-26.7	848.295



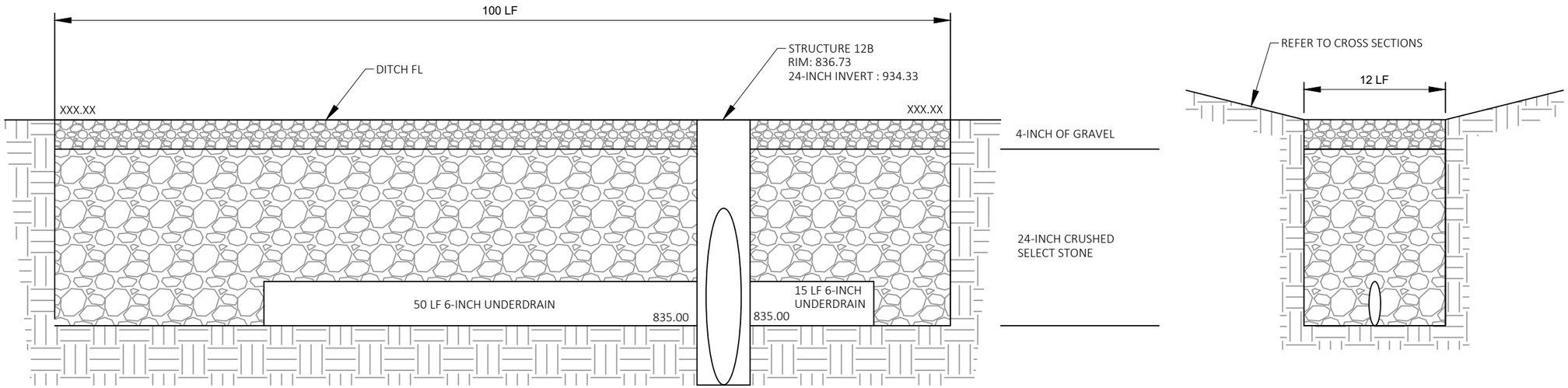
STH 73/PARK AVENUE NORTHEAST QUADRANT CURB RAMP TYPE 7B

STH 73

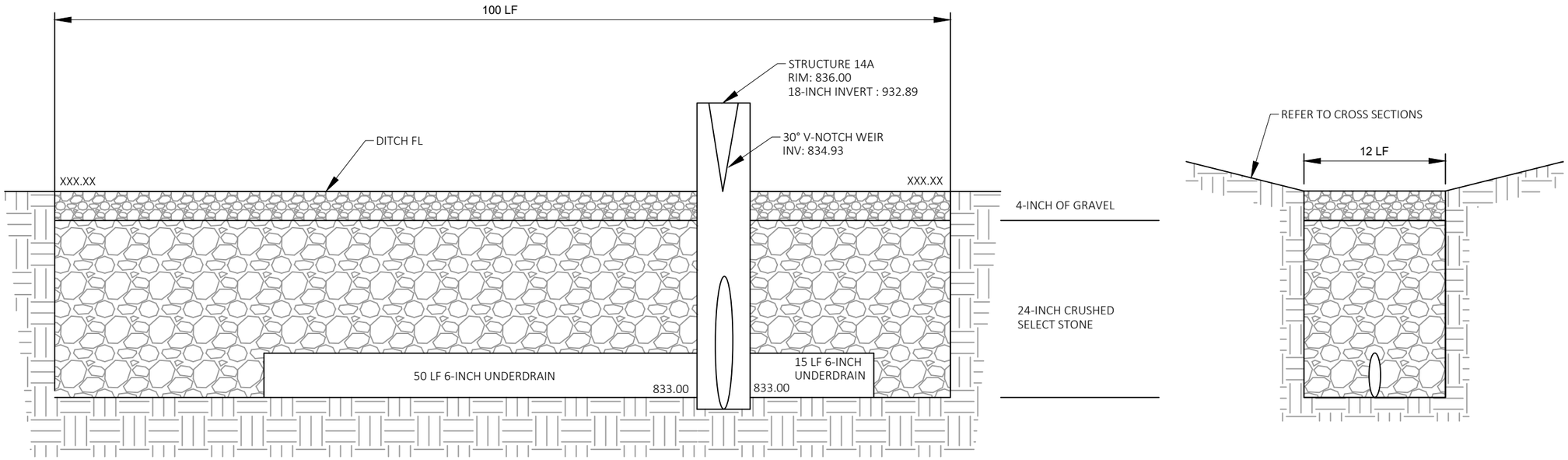
CURB RAMP 17 DATA TABLE			
NUMBER	STATION (EB)	OFFSET (FT)	ELEVATION
17.01	70+14.58	-31.8	848.230
17.02	70+14.58	-26.3	848.155
17.03	70+18.58	-18.5	848.020
17.04	70+24.58	-31.9	847.705
17.05	70+24.58	-26.9	847.630
17.06	70+24.58	-18.5	847.503
17.07	70+29.58	-31.9	847.691
17.08	70+29.58	-26.9	847.616
17.09	70+29.58	-18.5	847.490
17.10	70+34.58	-18.5	847.976
17.11	70+39.58	-31.9	848.149
17.12	70+39.58	-26.9	848.074

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CURB RAMP DETAILS	SHEET 25	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021001_CD.DWG
LAYOUT NAME - 021001_cd14
PLOT DATE : 6/7/2021 11:17 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



ROCK TRENCH - STA 7+85 NB TO STA 8+85 NB
NTS



ROCK TRENCH - STA 12+55 NB TO STA 13+55 NB
NTS

2

STH 89

WATERLOO STREET

HOFFMAN POND

POND OUTFALL

EXISTING ENDWALL
RCCP 18-INCH

15 FT BROAD CRESTED WEIR
WEIR: 832.00

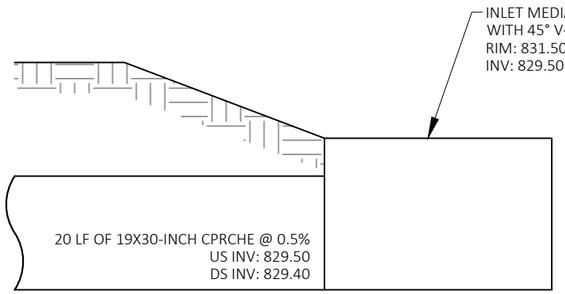
10'

4 FT WIDE BERM
TOP OF BERM: 833.00

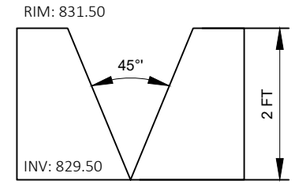
EXISTING R/W

TLE

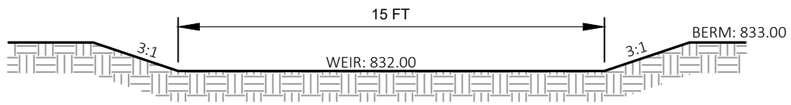
EXISTING UTILITY EASEMENT



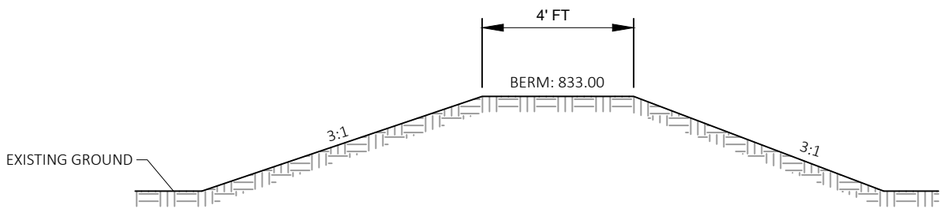
POND OUTFALL
NTS



45° DEGREE V-NOTCH WEIR
NTS



BROAD CRESTED WEIR
NTS



EARTHEN BERM
NTS

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS - HOFFMAN POND	SHEET 27	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSOTHER\FROM AECOM\PROPOSEDPOND-DETAIL.DWG
LAYOUT NAME - 021304_pd02
PLOT DATE : 12/11/2020 9:16 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

STH 89

WATERLOO STREET

HOFFMAN POND

EXISTING R/W

TLE

EXISTING UTILITY EASEMENT

EXISTING R/W

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS - HOFFMAN POND	SHEET 28	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021204_PD.DWG
LAYOUT NAME - 021304_pd02

PLOT DATE : 12/11/2020 9:16 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:20 FT

HOFFMAN POND		
POINT NUMBER	STATION	OFFSET
1	15+57.80	62.723 RT
2	15+62.55	71.427 RT
3	15+66.08	73.853 RT
4	15+65.14	77.595 RT
5	15+65.21	80.304 RT
6	15+65.24	82.951 RT
7	15+64.89	85.009 RT
8	15+65.49	88.559 RT
9	15+67.03	93.644 RT
10	15+69.59	97.815 RT
11	15+71.56	98.407 RT
12	15+73.10	98.299 RT
13	15+75.01	98.821 RT
14	15+82.15	101.476 RT
15	15+81.58	103.496 RT
16	15+82.76	103.930 RT
17	15+83.33	101.911 RT
18	15+86.65	101.666 RT
19	15+93.03	119.785 RT
20	15+91.50	120.672 RT
21	15+89.77	119.997 RT
22	15+89.39	121.338 RT
23	15+92.16	124.496 RT
24	15+88.73	126.501 RT
25	15+95.22	122.729 RT

HOFFMAN POND		
POINT NUMBER	STATION	OFFSET
26	15+91.43	136.270 RT
27	15+91.11	122.012 RT
28	16+01.20	133.806 RT
29	16+00.50	129.384 RT
30	15+99.87	125.455 RT
31	16+22.61	129.425 RT
32	16+88.69	112.312 RT
33	16+88.92	116.304 RT
34	17+06.37	117.724 RT
35	17+06.66	102.573 RT
36	16+96.24	107.064 RT
37	16+92.76	107.167 RT
38	16+93.47	81.584 RT
39	16+93.15	68.652 RT
40	16+91.70	65.774 RT
41	16+90.31	65.291 RT
42	16+88.95	65.868 RT
43	16+87.58	65.919 RT
44	16+86.23	66.546 RT
45	16+84.82	65.610 RT
46	16+86.01	100.141 RT
47	16+81.95	105.330 RT
48	16+53.87	68.481 RT
49	16+57.13	101.389 RT
50	16+53.27	106.911 RT

HOFFMAN POND		
POINT NUMBER	STATION	OFFSET
51	16+15.28	73.768 RT
52	16+19.95	105.616 RT
53	16+16.36	111.359 RT
54	16+05.01	113.653 RT
55	15+94.18	120.241 RT
56	15+94.77	118.233 RT
57	16+00.32	110.889 RT
58	15+93.62	117.777 RT
59	15+84.89	101.004 RT
60	15+87.04	100.323 RT
61	15+85.27	99.660 RT
62	15+79.55	95.739 RT
63	15+82.60	93.703 RT
64	15+90.67	88.427 RT
65	15+85.18	79.098 RT
66	15+82.13	76.724 RT
67	15+79.71	75.434 RT
68	15+77.29	74.153 RT
69	15+74.75	72.724 RT
70	15+72.66	72.015 RT
71	15+68.99	71.453 RT
72	15+67.97	67.650 RT
73	15+64.33	65.106 RT

2

2

AVALON ROAD

SEPC

SIGN

SIGN

SIGN

3'NB'

4'NB'

5'NB'

6'NB'

7'NB'

8'NB'

BEGIN PROJECT
STA 2+93.03'NB'

GOLF GREEN

LEGEND

REMOVING PAVEMENT

SAWCUT

REMOVING CONCRETE SIDEWALK

REMOVING CURB AND GUTTER

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAIL - REMOVALS	SHEET 30	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021201_PD.DWG
LAYOUT NAME - 021201_pd01

PLOT DATE : 11/30/2021 11:33 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

FOOTBRIDGE

W

INL

FLAG

SIGN

SIGN

SIGN

STA 8+65.00'NB'
REMOVE SMALL PIPE CULVERTS

STA 9+10.00'NB'
REMOVE SMALL PIPE CULVERT

STA 12+79.00'NB'
REMOVE SMALL PIPE CULVERT

9'NB'

10'NB'

11'NB'

12'NB'

13'NB'

14'NB'

STH 89

STA 14+00.00'NB'
REMOVE SMALL PIPE CULVERT

FOOTBRIDGE

GOLF
COURSE

LEGEND

REMOVING PAVEMENT

SAWCUT

REMOVING CONCRETE SIDEWALK

REMOVING CURB AND GUTTER

2

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAIL - REMOVALS	SHEET 31	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021201_PD.DWG
LAYOUT NAME - 021201_pd02

PLOT DATE : 11/30/2021 11:34 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

REMOVING PAVEMENT

SAWCUT

REMOVING CONCRETE SIDEWALK

REMOVING CURB AND GUTTER

N

ATHLETIC FIELD

STA 14+90.00'NB'
REMOVE SMALL PIPE CULVERT

STA 16+28.00'NB'
REMOVE SMALL PIPE CULVERT

WEATHER SIREN

15'NB'

16'NB'

17'NB'

18'NB'

19'NB'

20'NB'

REMOVE ASPHALTIC SURFACE
FOR CITY UTILITY WORK

WATERLOO STREET

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAIL - REMOVALS	SHEET 32	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021201_PD.DWG
LAYOUT NAME - 021201_pd03

PLOT DATE : 11/30/2021 11:34 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

REMOVING PAVEMENT

SAWCUT

REMOVING CONCRETE SIDEWALK

REMOVING CURB AND GUTTER

CLEAR AND GRUB TREE

N

SIGN ⊙FLAG

⊙POST

21'NB' 22'NB' 23'NB' 24'NB' 25'NB' 26'NB' 27'NB'

FRONTAGE ROAD

REMOVE ASPHALTIC SURFACE FOR CITY UTILITY WORK

REMOVE ASPHALTIC SURFACE FOR CITY UTILITY WORK

⊙FLAG ⊙FLAG ⊙FLAG

ANT ANT ANT. ANT.

W W

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAIL - REMOVALS	SHEET 33	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021201_PD.DWG
LAYOUT NAME - 021201_pd04

PLOT DATE : 11/30/2021 11:34 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- REMOVING PAVEMENT
- SAWCUT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER

N

SIGN

28'NB'

29'NB'

30'NB'

31'NB'

32'NB'

33'NB'

GRAVEL

FLAG

INL

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAIL - REMOVALS	SHEET 34	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021201_PD.DWG
LAYOUT NAME - 021201_pd05

PLOT DATE : 11/30/2021 11:34 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

FOLSOM STREET

STA 49+53.00'FO'
REMOVE INLET
REMOVE STORM SEWER 12-INCH, 32 LF

REMOVE ASPHALTIC SURFACE
FOR CITY UTILITY WORK

STA 36+24.00'NB' - STA 40+24.00'NB'
REMOVE STORM SEWER 15-INCH, 400 LF

STA 36+05.00'NB'
REMOVE INLET
REMOVE STORM SEWER 12-INCH, 18 LF

34'NB'

35'NB'

36'NB'

37'NB'

38'NB'

39'NB'

GRAVEL

STA 34+35.00'NB'
REMOVE INLET
REMOVE STORM SEWER 12-INCH,

STA 34+48.00'NB'
REMOVE MANHOLE

STA 36+24.00'NB'
REMOVE MANHOLE

STA 36+12.00'NB'
REMOVE INLET
REMOVE STORM SEWER 12-INCH, 34 LF

FOLSOM STREET

REMOVE ASPHALTIC SURFACE
FOR CITY UTILITY WORK

LEGEND

- REMOVING PAVEMENT
- SAWCUT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAIL - REMOVALS	SHEET 35	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021201_PD.DWG
LAYOUT NAME - 021201_pd06

PLOT DATE : 11/30/2021 11:34 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

POET STREET

STA 39+85.00'NB'
REMOVE INLET
REMOVE STORM SEWER 12-INCH, 36 LF

STA 40+24.00'NB'
REMOVE MANHOLE

STA 40+24.00'NB' - STA 42+74.00'NB'
REMOVE STORM SEWER 21-INCH, 250 LF

STA 42+79.00'NB' - STA 43+64.00'NB'
REMOVE STORM SEWER 15-INCH, 85 LF

STA 43+64.00'NB'
REMOVE MANHOLE

STA 43+64.00'NB'
REMOVE INLETS
REMOVE STORM SEWER 12-INCH, 36 LF

STA 43+64.00'NB' - STA 46+02.00'NB'
REMOVE STORM SEWER 15-INCH, 239 LF

STA 46+02.00'NB'
REMOVE INLETS
REMOVE STORM SEWER 12-INCH, 34 LF

STA 46+02.00'NB'
REMOVE MANHOLE

STA 40+17.00'PO' & STA 40+52.00 'PO'
REMOVE INLETS
REMOVE STORM SEWER 12-INCH, 110 LF

STA 42+75.00'NB'
REMOVE SMALL PIPE CULVERTS
TRIPLE 48-INCH CMCP, 92 LF

LEGEND

- REMOVING PAVEMENT
- SAWCUT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAIL - REMOVALS	SHEET 36	E

2

STH 73/PARK AVE

69+00'EB'

45'NB'

46'NB'

47'NB'

48'NB'

49'NB'

50'NB'

STA 46+02.00'NB'
REMOVE INLETS
REMOVE STORM SEWER 12-INCH, 34 LF

GRAVEL

GRAVEL

STA 46+02.00'NB'
REMOVE MANHOLE

REMOVE DRIVEWAY ACCESS

END PROJECT
STA 50+12.99'NB'
STA 69+54.98'EB'
STA 70+44.58'EB'

STH 73/PARK AVE

71+00'EB'

LEGEND

- REMOVING PAVEMENT
- SAWCUT
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND GUTTER

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAIL - REMOVALS	SHEET 37	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021201_PD.DWG
LAYOUT NAME - 021201_pd08

PLOT DATE : 11/30/2021 11:34 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

BA.0110	BASE AGGREGATE DENSE 3/4-INCH
AP.5224	HMA PAVEMENT 4 LT 58-28 S
AS.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG.0411	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG.0415	CONCRETE CURB AND GUTTER 6-INCH SLOPED 30-INCH TYPE J
CP.0090	CONCRETE PAVEMENT 9-INCH
CS.0410	CONCRETE SIDEWALK 5-INCH
CD.0160	CONCRETE DRIVEWAY 6-INCH

N

AVALON ROAD

SEPC

INL

INL

+30.45, -47.44' LT

+42.35, -50.00' LT

CS.0410

R30'

CG.0411

AP.5224

+60.00, -27.26' LT

+93.75, -48.17' LT

+13.71, -12.10' LT

+63.72, -17.00' LT

+93.03, -12.00' LT

+59.57, -17.00' LT

CG.0411

5'

50'

AP.5224

3'NB'

4'NB'

5'NB'

6'NB'

12'

7'NB'

AP.5224

8'NB'

STH 89

AP.5224

12'

AP.5224

33'

BEGIN PROJECT
STA 2+93.03'NB'

AS.0120

3'

5'

+63.72, 17.00' RT

+65.56, 17.00' RT

R20'

+53.12, 16.98' RT

BA.0110

+93.03, 11.04' RT

R40'

+85.21, 33.26' RT

+86.68, 41.00' RT

+17.78, 37.69' RT

+15.95, 41.00' RT

SIGN

SIGN

GOLF GREEN

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS	SHEET 38	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021203_PD.DWG
LAYOUT NAME - 021301_pd01

PLOT DATE : 6/7/2021 1:07 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

FOOTBRIDGE

W

INL

FLAG

SIGN

MH

+97.59, -61.26' LT

+96.88, -49.26' LT

+26.79, -61.44' LT

+26.88, -49.44' LT

+41.88, -44.42' LT

+26.88, -44.44' LT

+96.88, -44.26' LT

+55.00, -44.40' LT

+96.88, -19.50' LT

+26.88, -19.50' LT

AS.0120

CS.0410

CD.0160

CG.0411

AP.5224

BA.0110

5'

50'

12'

33'

3'

+35.07, -55.00' LT

+38.18, -48.84' LT

+28.18, -43.77' LT

+38.18, -43.84' LT

+38.18, -19.50' LT

9'NB'

10'NB'

11'NB'

12'NB'

13'NB'

14'NB'

STH 89

+42.02, 17.00' RT

+65.64, 17.00' RT

+23.70, 45.01' RT

+93.04, 35.93' RT

+00.51, 54.13' RT

R20'

R90'

GOLF COURSE

FOOTBRIDGE

	LEGEND
BA.0110	BASE AGGREGATE DENSE 3/4-INCH
AP.5224	HMA PAVEMENT 4 LT 58-28 S
AS.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG.0411	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG.0415	CONCRETE CURB AND GUTTER 6-INCH SLOPED 30-INCH TYPE J
CP.0090	CONCRETE PAVEMENT 9-INCH
CS.0410	CONCRETE SIDEWALK 5-INCH
CD.0160	CONCRETE DRIVEWAY 6-INCH

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS	SHEET 39	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021203_PD.DWG
LAYOUT NAME - 021301_pd02

PLOT DATE : 6/7/2021 1:07 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ATHLETIC FIELD

MH

WEATHER SIREN

N

+67.32, -55.02' LT

+68.47, -48.14' LT

+68.28, -19.50' LT

AS.0120

CD.0160

CD.0160

5'

50'

CS.0410

+06.70, -35.66' LT

5'

+40.43, -17.00' LT

+15.43, -26.50' LT

+15.43, -19.00' LT

CURB RAMP TYPE 7B
REQUIRED SEE DETAIL

5-FT TERRACE

CS.0410

5'

7'

12'

50'

20'NB'

19'NB'

18'NB'

17'NB'

16'NB'

15'NB'

AP.5224

AP.5224

AP.5224

AP.5224

AP.5224

12'

12'

12'

33'

33'

MH

+04.86, 19.00' RT

CG.0411

BA.0110

3'

5'

/ SIGN

/ SIGN

+40.43, 17.00' RT

+15.43, 17.00' RT

AP.5224

CURB RAMP TYPE 2
REQUIRED SEE DETAIL

R30'

R60'

R37'

R87'

INL

+47.90, 48.14' RT

+74.89, 50.26' RT

+56.56, 85.84' RT

+81.13, 74.84' RT

HOFFMAN
POND

MH

INL

WATERLOO STREET

MH

INL

	LEGEND
BA.0110	BASE AGGREGATE DENSE 3/4-INCH
AP.5224	HMA PAVEMENT 4 LT 58-28 S
AS.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG.0411	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG.0415	CONCRETE CURB AND GUTTER 6-INCH SLOPED 30-INCH TYPE J
CP.0090	CONCRETE PAVEMENT 9-INCH
CS.0410	CONCRETE SIDEWALK 5-INCH
CD.0160	CONCRETE DRIVEWAY 6-INCH

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS	SHEET 40	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021203_PD.DWG
LAYOUT NAME - 021301_pd03

PLOT DATE : 6/7/2021 1:07 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

	LEGEND
BA.0110	BASE AGGREGATE DENSE 3/4-INCH
AP.5224	HMA PAVEMENT 4 LT 58-28 S
AS.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG.0411	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG.0415	CONCRETE CURB AND GUTTER 6-INCH SLOPED 30-INCH TYPE J
CP.0090	CONCRETE PAVEMENT 9-INCH
CS.0410	CONCRETE SIDEWALK 5-INCH
CD.0160	CONCRETE DRIVEWAY 6-INCH

N

SIGN ⊙FLAG

⊙POST

+40.61, -64.26' LT

+59.10, -47.95' LT

AS.0120

CS.0410

CD.0160

CD.0160

CS.0410

5-FT TERRACE

5'

+15.69, -36.50' LT

+17.47, -21.50' LT

+45.37, -36.50' LT

AS.0120

CD.0160

CD.0160

CS.0410

+23.08, -21.50' LT

+55.08, -21.50' LT

+48.47, -21.50' LT

AP.5224

CURB RAMP TYPE 4B1
REQUIRED SEE DETAIL

50'

33'

7'

12'

CG.0411

21'NB'

22'NB'

23'NB'

24'NB'

25'NB'

AP.5224

26'NB'

+02.89, 21.50' RT

27'NB'

MH

+29.49, 19.00' RT

+90.89, 21.50' RT

+24.81, 26.50' RT

+79.43, 19.00' RT

CG.0411

AP.5224

33'

63'

12'

7'

+00.00, 24.50' RT

+04.49, 24.50' RT

+73.43, 25.00' RT

5-FT TERRACE

CS.0410

3-FT TERRACE

R30

CD.0160

CD.0160

CS.0410

AS.0120

+80.00, 26.50' RT

CURB RAMP TYPE 4B1
REQUIRED SEE DETAIL

+29.49, 38.00' RT

5'

INL

FRONTAGE ROAD

MH

AP.5224

AS.0120

+73.43, 28.08' RT

+69.17, 43.50' RT

+73.44, 58.26' RT

+29.95, 58.67' RT

+44.90, 58.05' RT

+59.39, 57.82' RT

+56.44, 55.12' RT

⊙FLAG

⊙FLAG

⊙FLAG

ANT

ANT

ANT.

ANT.

W

W

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS	SHEET 41	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021203_PD.DWG
LAYOUT NAME - 021301_pd04

PLOT DATE : 6/7/2021 1:07 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

	LEGEND
BA.0110	BASE AGGREGATE DENSE 3/4-INCH
AP.5224	HMA PAVEMENT 4 LT 58-28 S
AS.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG.0411	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG.0415	CONCRETE CURB AND GUTTER 6-INCH SLOPED 30-INCH TYPE J
CP.0090	CONCRETE PAVEMENT 9-INCH
CS.0410	CONCRETE SIDEWALK 5-INCH
CD.0160	CONCRETE DRIVEWAY 6-INCH

N

+67.57, -46.50' LT
SIGN
+55.86, -36.50' LT
+56.42, -36.50' LT
+91.67, -36.50' LT
+22.09, -41.72' LT
CS.0410
AS.0120
CD.0160
5-FT TERRACE
CURB RAMP TYPE 7B
REQUIRED SEE DETAIL
+55.86, -21.50' LT
+90.86, -21.50' LT
+26.42, -21.50' LT
+56.42, -21.50' LT
AP.5224
+91.67, -21.50' LT
+06.67, -21.50' LT
28'NB'
29'NB'
30'NB'
31'NB'
AP.5224 OVER AP.5223
32'NB'
33'NB'
33'
12'
7'
5'
MH
+50.31, 21.50' RT
+61.73, 21.50' RT
+34.31, 21.50' RT
+73.73, 21.50' RT
+66.79, 21.50' RT
+80.79, 21.50' RT
+69.41, 21.50' RT
+04.36, 21.50' RT
+16.36, 21.50' RT
+81.41, 21.50' RT
CG.0411
+40.19, 21.50' RT
+27.19, 21.50' RT
+83.12, 21.50' RT
+30.51, 21.50' RT
+95.12, 21.50' RT
BA.0110
+67.50, 41.50' RT
+34.31, 41.50' RT
+82.69, 41.50' RT
+63.23, 41.50' RT
+05.83, 41.50' RT
+41.15, 36.61' RT
+71.15, 46.50' RT
+24.90, 46.55' RT
+02.35, 46.48' RT
+28.18, 36.50' RT
+68.54, 41.52' RT
+94.09, 36.50' RT
+29.92, 36.50' RT
FLAG
INL

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS	SHEET 42	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021203_PD.DWG
LAYOUT NAME - 021301_pd05
PLOT DATE : 6/7/2021 1:07 PM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

N

FOLSOM STREET

CURB RAMP TYPE 2
REQUIRED SEE DETAIL

+61.16, -41.61' LT
+03.81, -36.50' LT
+30.97, -41.61' LT
+50.81, -36.44' LT
+85.97, -36.50' LT
+29.09, -58.70' LT
+32.85, -51.30' LT
+29.23, -56.26' LT
+62.84, -53.58' LT
+63.36, -46.75' LT
+27.59, -46.62' LT
+83.50, -36.50' LT
+63.68, -36.50' LT
+13.40, -36.51' LT
+77.06, -36.49' LT
+03.96, -21.50' LT
+83.96, -21.50' LT
+61.50, -21.50' LT
+85.50, -21.50' LT
+02.94, -19.00' LT
+93.27, -19.00' LT
+12.01, -21.50' LT
+84.01, -21.50' LT
+81.68, -21.50' LT
+63.68, -21.50' LT

AS.0120 CD.0160 CS.0410 5-FT TERRACE AP.5224 CG.0411 BA.0110

34'NB' 35'NB' 36'NB' 37'NB' 38'NB' 39'NB'

33' 12' 7' 5'

+41.42, 21.50' RT
+25.42, 21.50' RT
+52.51, 21.50' RT
+90.96, 21.50' RT
+02.96, 21.50' RT
+43.80, 21.50' RT
+55.80, 21.50' RT
+08.56, 19.00' RT
+00.67, 19.00' RT
+07.63, 21.50' RT
+21.63, 21.50' RT
+52.78, 36.50' RT
+38.50, 47.15' RT
+38.84, 52.21' RT
+82.57, 43.53' RT
+70.70, 50.54' RT
+07.63, 36.50' RT
+68.11, 46.48' RT

CURB RAMP TYPE 2
REQUIRED SEE DETAIL

R30'

FOLSOM STREET

	LEGEND
BA.0110	BASE AGGREGATE DENSE 3/4-INCH
AP.5224	HMA PAVEMENT 4 LT 58-28 S
AS.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG.0411	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG.0415	CONCRETE CURB AND GUTTER 6-INCH SLOPED 30-INCH TYPE J
CP.0090	CONCRETE PAVEMENT 9-INCH
CS.0410	CONCRETE SIDEWALK 5-INCH
CD.0160	CONCRETE DRIVEWAY 6-INCH

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS	SHEET 43	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021203_PD.DWG
LAYOUT NAME - 021301_pd06
PLOT DATE : 6/7/2021 1:07 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

POET STREET

CURB RAMP TYPE 2
REQUIRED SEE DETAIL

+15.60, -59.89' LT
+15.84, -56.62' LT
+19.28, -51.24' LT
+39.24, -52.73' LT
+39.69, -46.77' LT

CURB RAMP TYPE 7B
REQUIRED SEE DETAIL

R30'

SIGN

+42.36, -36.50' LT
+37.45, -36.50' LT

BA.0110
CD.0160
AS.0120
CS.0410
CG.0411
AP.5224

5-FT TERRACE

+89.36, -19.00' LT
+69.60, -19.00' LT
+41.87, -21.50' LT
+26.87, -21.50' LT
+14.45, -21.50' LT
+37.45, -21.50' LT

40'NB'
41'NB'
42'NB'
43'NB'
44'NB'
45'NB'
46'NB'

33'
12'
7'
5'

+89.01, 19.00' RT
+80.79, 19.00' RT
+82.82, 21.50' RT
+96.82, 21.50' RT
+61.57, 21.50' RT
+73.57, 21.50' RT
+46.43, 21.50' RT
+62.43, 21.50' RT
+76.28, 21.50' RT
+61.28, 21.50' RT

CURB RAMP TYPE 2 MODIFIED
REQUIRED SEE DETAIL

R30'

+18.71, 44.75' RT
+19.43, 49.79' RT
+12.36, 55.57' RT
+82.82, 36.50' RT
+47.11, 41.44' RT
+62.41, 36.51' RT
+62.43, 36.50' RT
+61.28, 41.50' RT
+78.50, 41.37' RT

CURB RAMP TYPE 2 MODIFIED
REQUIRED SEE DETAIL

+50.80, 48.08' RT

POET STREET

MH
INL
ANT

LEGEND

BA.0110	BASE AGGREGATE DENSE 3/4-INCH
AP.5224	HMA PAVEMENT 4 LT 58-28 S
AS.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG.0411	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG.0415	CONCRETE CURB AND GUTTER 6-INCH SLOPED 30-INCH TYPE J
CP.0090	CONCRETE PAVEMENT 9-INCH
CS.0410	CONCRETE SIDEWALK 5-INCH
CD.0160	CONCRETE DRIVEWAY 6-INCH

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS	SHEET 44	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021203_PD.DWG
LAYOUT NAME - 021301_pd07

PLOT DATE : 6/7/2021 1:07 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

STH 73/PARK AVE

69+00'EB'

71+00'EB'

72+00'EB'

N

45'NB'

46'NB'

47'NB'

48'NB'

49'NB'

50'NB'

33'

5'

7'

12'

AP.5224

BA.0110

CD.0160

AS.0120

CS.0410

CG.0411

CG.0415

CP.0090

5-FT TERRACE

+35.36, -36.50' LT

+50.20, -41.50' LT

+95.15, -41.50' LT

+80.84, -36.50' LT

+84.83, -46.05' LT

+35.36, -21.50' LT

+74.47, -21.50' LT

+50.20, -21.50' LT

+85.20, -21.50' LT

+95.20, -21.50' LT

+41.20, -21.50' LT

+80.84, -21.50' LT

+15.84, -21.50' LT

+67.45, -19.00' LT

+92.82, -45.09' LT

+55.02, -19.63' LT

+52.79, -27.90' LT

+57.79, -26.78' LT

+58.57, -18.15' LT

+59.25, -17.27' LT

+62.79, -16.00' LT

CURB RAMP TYPE 1A
REQUIRED SEE DETAIL

CURB RAMP TYPE 7B
REQUIRED SEE DETAIL

END PROJECT
STA 59+47.83'EB'
STA 70+44.58'EB'

+37.10, -16.00' LT

CURB RAMP TYPE 7B
REQUIRED SEE DETAIL

+40.64, -17.47' LT

+41.13, -17.96' LT

+39.58, -26.86' LT

+44.57, -27.93' LT

+44.58, -19.44' LT

+92.49, 44.59' RT

+84.39, 47.67' RT

+67.50, 19.00' RT

+21.66, 21.50' RT

+39.66, 21.50' RT

+39.66, 36.50' RT

+75.55, 47.51' RT

CURB RAMP TYPE 1
REQUIRED SEE DETAIL

+88.71, 41.51' RT

+28.31, 36.50' RT

+52.69, 36.50' RT

+89.77, 46.73' RT

+49.88, 41.50' RT

+78.50, 41.37' RT

+20.61, 21.50' RT

+48.69, 21.50' RT

+12.23, 21.50' RT

+28.54, 21.50' RT

+41.37, 21.50' RT

+53.37, 21.50' RT

R26'

R25'

R5'

R35'

R30'

R25'

R5'

SS

INL

MH

FLAG

SIGN

LEGEND

BA.0110	BASE AGGREGATE DENSE 3/4-INCH
AP.5224	HMA PAVEMENT 4 LT 58-28 S
AS.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG.0411	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG.0415	CONCRETE CURB AND GUTTER 6-INCH SLOPED 30-INCH TYPE J
CP.0090	CONCRETE PAVEMENT 9-INCH
CS.0410	CONCRETE SIDEWALK 5-INCH
CD.0160	CONCRETE DRIVEWAY 6-INCH

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN DETAILS	SHEET 45 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\021203_PD.DWG
LAYOUT NAME - 021301_pd08
PLOT DATE : 6/7/2021 1:07 PM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

AVALON ROAD

INL

INL

SEPC

SIGN

SIGN

SIGN

HENRY MORSE FARMHOUSE
HISTORIC PROPERTY

ST JEROME'S SCHOOL/CHURCH
HISTORIC PROPERTY

GOLF GREEN

5

N

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- SOD
- SILT FENCE
- SLOPE INTERCEPT
- Ⓐ Ⓑ Ⓒ INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	EROSION CONTROL	SHEET 46	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022001_EC.DWG
LAYOUT NAME - 022001_ec01

PLOT DATE : 4/22/2021 6:50 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

FOOTBRIDGE

W

INL

FLAG

SIGN

SIGN

N

COLUMBUS HIGH SCHOOL
HISTORIC PROPERTY

ST JEROME'S SCHOOL/CHURCH
HISTORIC PROPERTY

CHURCH

A

A C

A C

A C

10

MH

STH 89

GOLF
COURSE

FOOT

2

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- SOD
- SILT FENCE
- SLOPE INTERCEPT
- Ⓐ Ⓑ Ⓒ INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	EROSION CONTROL	SHEET 47	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022001_EC.DWG
LAYOUT NAME - 022001_ec02

PLOT DATE : 4/22/2021 6:50 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- SOD
- SILT FENCE
- SLOPE INTERCEPT
- Ⓐ Ⓑ Ⓒ INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

ATHLETIC FIELD

COLUMBUS HIGH SCHOOL
HISTORIC PROPERTY

MH

WATERSHED AREA

15

20

MH

DESIGN

DESIGN

INL

Ⓐ

MH

INL

MH

INL

WATERLOO STREET

N

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	EROSION CONTROL	SHEET 48	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022001_EC.DWG
LAYOUT NAME - 022001_ec03

PLOT DATE : 4/22/2021 6:50 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- SOD
- SILT FENCE
- SLOPE INTERCEPT
- Ⓐ Ⓑ Ⓒ INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

SIGN
FLAG
COLUMBUS HIGH SCHOOL
HISTORIC PROPERTY
POST
25
MH
INL
FRONTAGE ROAD
MH
FLAG
W
FLAG
FLAG
ANT
ANT
ANT
ANT
W
N

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	EROSION CONTROL	SHEET 49	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022001_EC.DWG
LAYOUT NAME - 022001_ec04
PLOT DATE : 4/22/2021 6:50 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

COLUMBUS HIGH SCHOOL
HISTORIC PROPERTY

N

SIGN

A C

30

MH

MH

A C

A C

INL

FLAG

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- SOD
- SILT FENCE
- SLOPE INTERCEPT
- Ⓐ Ⓑ Ⓒ INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	EROSION CONTROL	SHEET 50	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022001_EC.DWG
LAYOUT NAME - 022001_ec05

PLOT DATE : 4/22/2021 6:50 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

FOLSOM STREET

N

SIGN

MH

INL

35

MH

MH

MH

INL

FOLSOM STREET

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- SOD
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A) (B) (C)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	EROSION CONTROL	SHEET 51	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022001_EC.DWG
LAYOUT NAME - 022001_ec06

PLOT DATE : 4/22/2021 6:50 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

POET STREET

2ND WARD CREEK

RIPRAP HEAVY
GEOTEXTILE TYPE HR

SIGN

40

45

RIPRAP HEAVY
GEOTEXTILE TYPE HR

POET STREET

2ND WARD CREEK

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- SOD
- SILT FENCE
- SLOPE INTERCEPT
- Ⓐ Ⓑ Ⓒ INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	EROSION CONTROL	SHEET 52	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022001_EC.DWG
LAYOUT NAME - 022001_ec07
PLOT DATE : 4/22/2021 6:50 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

STH 73/PARK AVE

KURTH BREWERY
HISTORIC PROPERTY

45

50

INL

MH

SIGN

W

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- SOD
- SILT FENCE
- SLOPE INTERCEPT
- Ⓐ Ⓑ Ⓒ INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	EROSION CONTROL	SHEET 53	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022001_EC.DWG
LAYOUT NAME - 022001_ec08

PLOT DATE : 4/22/2021 6:50 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

FOR INFORMATION ONLY

2

2

R/W

N

2ND WARD CREEK

R/W

R/W

30 LF TEMPORARY SHORING

TLE

R/W

R/W

TLE

2ND WARD CREEK

CAUTION

CAUTION

156 LF TEMPORARY SHORING

PIPE 1
1 - 66" x 51" x 95' PACS SMOOTH CORE
INLET I.E 830.85'
OUTLET I.E 829.00'
SKEW 21 RHF
REMOVE SMALL CULVERT 1 - 48" x 95'

43+00'NB'

MH

MH

MH

NOTE:
DIVERT 2ND WARD CREEK INTO THE EXISTING NORTHERN TWO 48-INCH CMCP CULVERTS WITH TEMPORARY SHORING OR SANDBAGS. TEMPORARY SHORING AND SANDBAGS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. PLACE TEMPORARY SHORING ALONG PIPE TO PREVENT MOVEMENT DURING EXCAVATION.

THE CITY HAS AN ABANDONED WATERMAIN THAT MAY BE ENCOUNTERED DURING THE EXCAVATION FOR THE STRUCTURE AND PLACEMENT OF THE NEW CULVERT PIPES. IF THE PIPE IS ENCOUNTERED NOTIFY THE CITY TO VERIFY IT IS ABANDONED, REMOVE NECESSARY PIPE SECTION(S), AND CAP THE REMAINING SECTIONS OF PIPE. THE LOCATING, REMOVAL, AND CAPPING SHALL BE INCIDENTAL TO THE EXCAVATION FOR STRUCTURE BID ITEM.

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	2ND WARD CREEK DIVERSION - STAGE 1	SHEET 54	E

PIPE 2
1 - 66" x 51" x 95' PACS SMOOTH CORE
INLET I.E. 830.85'
OUTLET I.E. 829.00'
SKEW 21 RHF
REMOVE SMALL CULVERT 1 - 48" x 95' CMCP

PIPE 3
1 - 53" x 41" x 95' PACS SMOOTH CORE
INLET I.E. 831.60'
OUTLET I.E. 830.00'
SKEW 21 RHF
REMOVE SMALL CULVERT 1 - 48" x 95' CMCP

156 LF TEMPORARY SHORING

CAUTION

CAUTION

43+00'NB'

2ND WARD CREEK

2ND WARD CREEK

N

NOTE:
DIVERT 2ND WARD CREEK INTO THE EXISTING NORTHERN TWO 48-INCH CMCP CULVERTS WITH TEMPORARY SHORING OR SANDBAGS. TEMPORARY SHORING AND SAND BAGS ARE INCIDENTAL TO EXCAVATION OF STRUCTURES. PLACE TEMP SHORING ALONG ALONG CULVERT PIPE TO PREVENT MOVEMENT DURING EXCAVATION.

THE CITY HAS AN ABANDONED WATERMAIN THAT MAY BE ENCOUNTERED DURING THE EXCAVATION FOR THE STRUCTURE AND PLACEMENT OF THE NEW CULVERT PIPES. IF THE PIPE IS ENCOUNTERED NOTIFY THE CITY TO VERIFY IT IS ABANDONED, REMOVE NECESSARY PIPE SECTION(S), AND CAP THE REMAINING SECTIONS OF PIPE. THE LOCATING, REMOVAL, AND CAPPING SHALL BE INCIDENTAL TO THE EXCAVATION FOR STRUCTURE BID ITEM.

FOR INFORMATION ONLY

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	2ND WARD CREEK DIVERSION - STAGE 2	SHEET 55	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022003_EC.DWG
LAYOUT NAME - 022003_ec01
PLOT DATE : 5/13/2021 10:32 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

STA 3+63.72'NB' - STA 4+12.08'NB'
66 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 4+12.08'NB' - STA 4+59.54'NB'
66 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

PIPE INSULATION REQUIRED

STA 6+10.00'NB' - STA 7+10.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

10D STA 4+40, 27.4' L
INLETS 4-H-S

10C STA 3+87, 30.2' L
INLETS 4-H-S

10B STA 3+63, 28.1' L
INLETS MEDIAN 2G-MS

10 STA 4+60, 12.0' L
MANHOLES 5-J

11A STA 6+60, 37.0' L
INLETS MEDIAN 2G-MS

11B STA 6+60, 18.5' L
INLETS 4-H

11 STA 6+60, 12.0' L
MANHOLES 5-J

10A STA 3+40, 27.7' R
INLETS MEDIAN 1G-MS

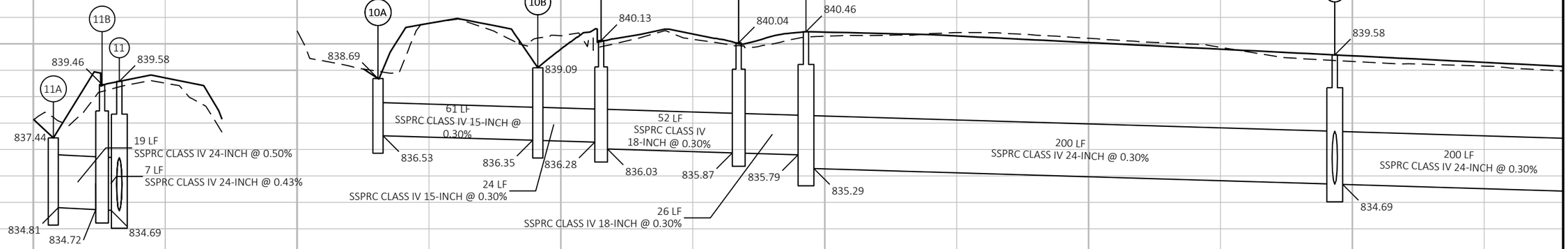
BEGIN PROJECT
STA 2+93.03'NB'

STH 89

SIGN

SIGN

3'NB'+00
4'NB'+00
5'NB'+00
6'NB'+00
7'NB'+00



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	STORM SEWER	SHEET 56	E

STA 6+10.00'NB' - STA 7+10.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 8+60, 54.0' L
APRON ENDWALLS FOR CPRC 15-INCH (12A)

STA 8+10.00'NB' - STA 8+75.00'NB'
65 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 7+85.00'NB' - STA 8+85.00'NB'
100 LF, ROCK TRENCH

STA 8+60.00
2.5' CURB CUT

STA 9+80.00'NB' - STA 10+80.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

(11A) STA 6+60, 37.0' L
INLETS MEDIAN 2G-MS

(11B) STA 6+60, 18.5' L
INLETS 4-H

STA 8+60, 32.0' L
INLETS MEDIAN 2G-MS (12B)

(13A) STA 10+30, 18.5' L
INLETS 2x3-H

CAUTION

STA 6+60, 12.0' L
MANHOLES 5-J (11)

STA 8+60, 12.0' L
MANHOLES 7-J (12)

(13) STA 10+30, 8.0' L
MANHOLES 7-J

7'NB'+00 8'NB'+00 9'NB'+00 10'NB'+00 11'NB'+00 12'NB'+00

SIGN SIGN SIGN SAN SAN

W T OH E G

N

(11) 839.58

834.69

200 LF
SSPRC CLASS IV 24-INCH @ 0.30%

200 LF
SSPRC CLASS IV 24-INCH @ 0.30%

(12) 838.58

834.09

833.67

170 LF
SSPRCHE CLASS HE-IV 29X45-INCH @ 0.30%

(13) 837.81

833.16

250 LF
SSPRCHE CLASS HE-IV 29X45-INCH @ 0.50%

(11B) (11) (11A)
839.46 839.58 837.44

19 LF
SSPRC CLASS IV 24-INCH @ 0.50%

7 LF
SSPRC CLASS IV 24-INCH @ 0.43%

834.81 834.72 834.69

(12A) (12B) (12)
838.23 836.73 838.58

836.79

22 LF
SSPRC CLASS IV 15-INCH @ 7.77%

835.08

834.33

834.09

20 LF
SSPRC CLASS IV 24-INCH @ 1.21%

(13A) (13)
837.61 837.81

11 LF
SSPRC CLASS IV 15-INCH @ 1.19%

834.45
834.33

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	STORM SEWER	SHEET 57	E

STA 12+65.00'NB' - STA 13+30.00'NB'
65 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 12+80.00 LT
2.5' CURB CUT

STA 12+55.00'NB' - STA 13+55.00'NB'
100 LF, ROCK TRENCH

14A STA 12+80, 33.0' L
INLETS MEDIAN 2G-MS

14 STA 12+80, 8.0' L
MANHOLES 8-J

STA 12+90.00'NB' - STA 15+36.00'NB'
206 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

16B STA 13+80, 18.5' L
INLETS 4-H-S

16A STA 13+90, 18.5' L
CATCH BASINS 6-H

STA 14+19.00 LT
2.5' CURB CUT

20A STA 14+86, 49.6' L
APRON ENDWALLS FOR CPRC 15-INCH

20B STA 14+86, 33.0' L
INLETS MEDIAN 1G-MS

20C STA 15+50, 32.1' L
INLETS MEDIAN 2G-MS

STA 16+30, 18.5' L
CATCH BASINS 5-H

20D

20 STA 16+30, 6.0' L
MANHOLES 7-J

11'NB'+00 12'NB'+00 13'NB'+00 14'NB'+00 15'NB'+00 16'NB'+00 17'NB'+00

STA 13+90, 8.0' L
MANHOLES 7-J

16

STA 14+86, 18.5' L
INLETS 2x3-H

18A

PIPE INSULATION REQUIRED

PIPE GRATE

14B STA 12+80, 26.1' R
APRON ENDWALLS FOR CPRCHE 29x45-INCH

STA 15+80.00'NB' - STA 16+80.00'NB'
246 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

PIPE INSULATION REQUIRED

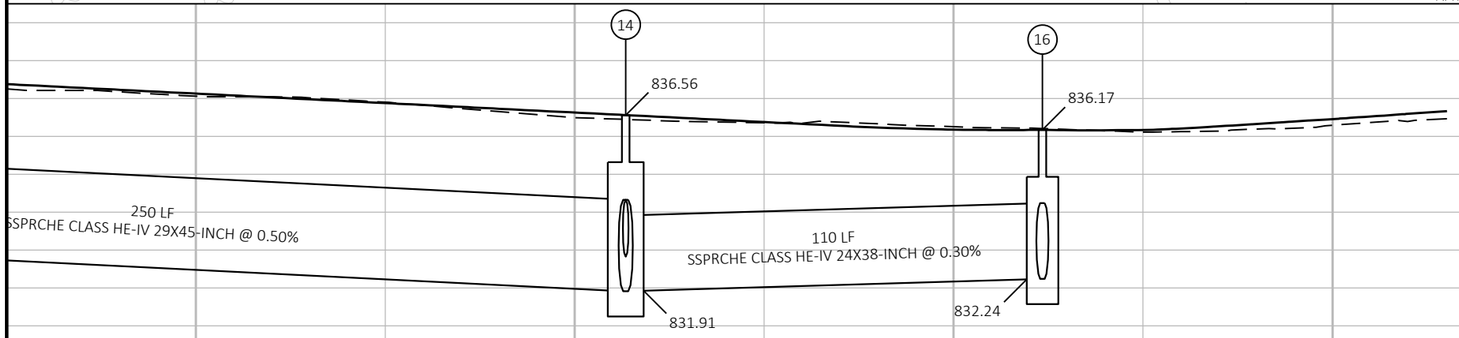
20E STA 16+30, 61.4' R
APRON ENDWALLS FOR CPRC 30-INCH

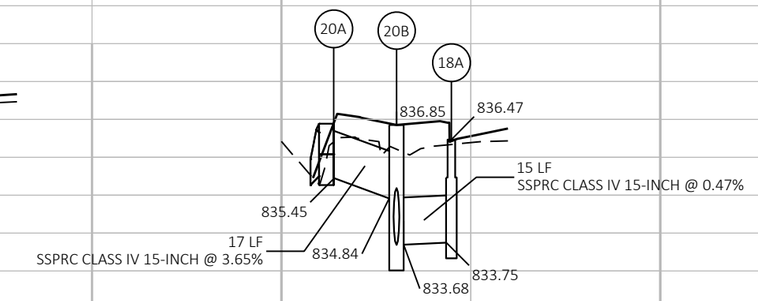
STA 15+91, 91.2' R
INLETS MEDIAN 2G-MS

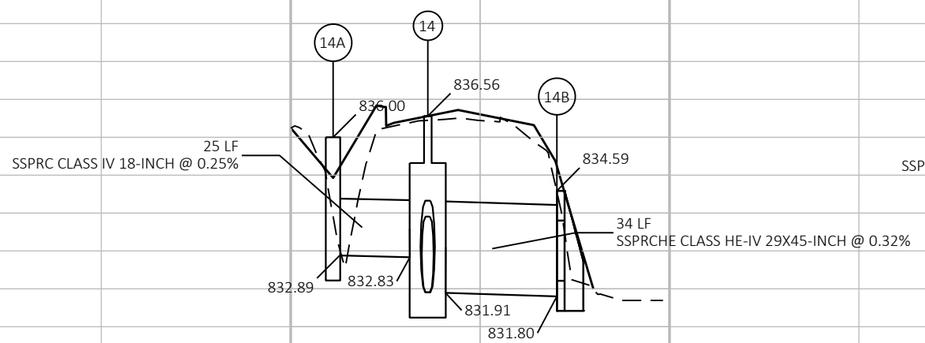
20F

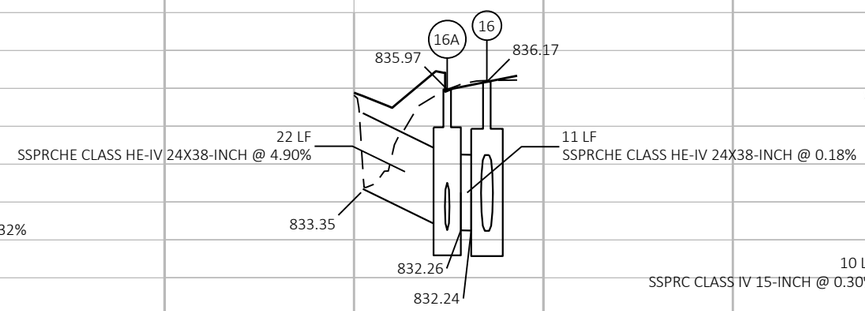
STA 15+75, 100.3' R
APRON ENDWALLS FOR CPRCHE 19x30-INCH

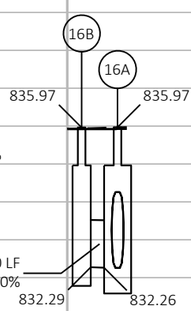
20G











PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	STORM SEWER	SHEET 58	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022502_SS.DWG
LAYOUT NAME - 022502_ss03
PLOT DATE : 3/12/2021 7:41 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

STA 16+30, 18.5' L
CATCH BASINS 5-H (20D)

(20) STA 16+30, 6.0' L
MANHOLES 7-J

STA 15+80.00'NB' - STA 16+80.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 18+15, 40.8' L
INLETS MEDIAN 1G-MS (21A)

STA 17+65.00'NB' - STA 18+65.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 18+72.00'NB' - STA 19+72.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 19+86.00'NB' - STA 20+86.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 21+00.00'NB' - STA 22+00.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

N

STA 18+15, 20.5' L
INLETS 2x3-H (21B)

(22A) STA 19+22, 20.5' L
INLETS 2x3-H

(22.1A) STA 20+36, 20.5' L
INLETS 2x3-H

(23A) STA 21+50, 20.5' L
INLETS 2x3-H

16'NB'+00 17'NB'+00 18'NB'+00 19'NB'+00 20'NB'+00 21'NB'+00 22'NB'+00

CAUTION

(21) STA 18+15, 12.0' L
MANHOLES 7-J

(22) STA 19+22, 12.0' L
MANHOLES 7-J

(22.1) STA 20+36, 12.0' L
MANHOLES 5-J

(23) STA 21+50, 12.0' L
MANHOLES 5-J

PIPE INSULATION REQUIRED

(22B) STA 19+22, 20.5' R
INLETS 2x3-H

(23B) STA 21+50, 20.5' R
INLETS 2x3-H

STA 18+78.00'NB' - STA 19+65.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 21+00.00'NB' - STA 22+00.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

(20E) STA 16+30, 61.4' R
APRON ENDWALLS FOR CPRC 30-INCH

(20A) (20B) (20C) (20D) (20) (20E)
17 LF SSPRC CLASS IV 15-INCH @ 3.65%
61 LF SSPRC CLASS IV 18-INCH @ 0.41%
78 LF SSPRC CLASS IV 24-INCH @ 0.54%
13 LF SSPRC CLASS IV 24-INCH @ 0.30%
67 LF SSPRCHE CLASS HE-IV 29X45-INCH @ 1.00%
185 LF SSPRCHE CLASS HE-IV 29X45-INCH @ 0.50%
836.85 836.54 835.45 834.84 833.68 833.43 837.40 837.64 833.01 832.97 832.79 830.00 830.67

(21A) (21B) (21)
20 LF SSPRC CLASS IV 18-INCH @ 0.50%
9 LF SSPRC CLASS IV 18-INCH @ 0.56%
838.57 837.24 834.96 834.86 838.73 834.81

(22.1A) (22.1) (22)
9 LF SSPRC CLASS IV 15-INCH @ 2.00%
9 LF SSPRC CLASS IV 15-INCH @ 2.00%
107 LF SSPRCHE CLASS HE-IV 29X45-INCH @ 0.50%
840.48 840.64 836.99 836.82 839.42 833.89 834.43

(22A) (22B)
33 LF SSPRC CLASS IV 15-INCH @ 2.00%
839.42 839.26 835.77 836.25 835.60

(23A) (23) (23B)
9 LF 842.63 842.79 842.63
33 LF SSPRC CLASS IV 15-INCH @ 2.00%
838.61 837.96 838.13
114 LF SSPRC CLASS IV 30-INCH @ 1.00%
114 LF SSPRC CLASS IV 24-INCH @ 1.00%
148 LF SSPRC CLASS IV 24-INCH @ 2.68%
840.64 842.79 837.21 835.57 836.07

(20F) (20G)
20 LF SSPRCHE CLASS HE-IV 19X30-INCH @ 0.50%
831.60 829.50 829.40

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	STORM SEWER	SHEET 59	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022502_SS.DWG
LAYOUT NAME - 022502_ss04
PLOT DATE : 3/12/2021 7:41 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

STA 24+00.00'NB' - STA 25+00.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 26+31.00'NB' - STA 28+31.00'NB'
200 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

24A STA 24+50, 20.5' L
INLETS 2x3-H

STA 26+81, 20.5' L 25A
INLETS 2x3-H

STA 27+80, 20.5' L 26A
INLETS 2x3-H

23.1 STA 22+98, 12.0' L
MANHOLES 5-J

24 STA 24+50, 12.0' L
MANHOLES 5-J

STA 26+81, 12.0' L 25
MANHOLES 5-J

STA 27+80, 12.0' L 26
MANHOLES 5-J

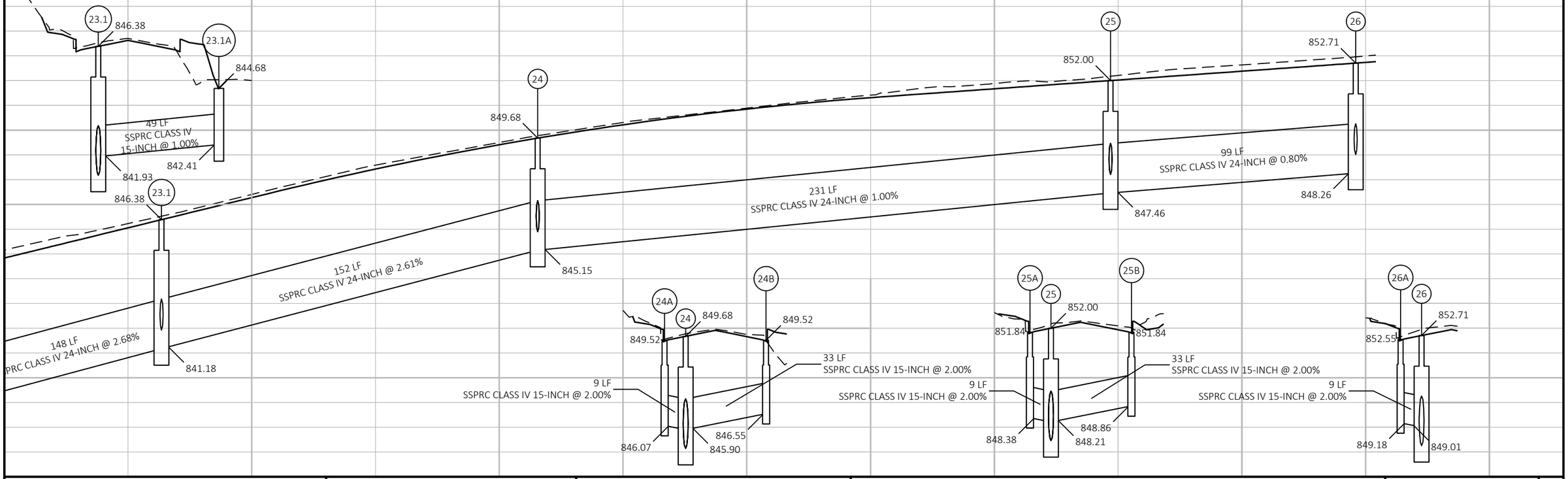
24B STA 24+50, 20.5' R
INLETS 2x3-H

25B STA 26+81, 20.5' R
INLETS 2x3-H-S

STA 22+98, 36.7' R
INLETS MEDIAN 1G-MS 23.1A

STA 24+00.00'NB' - STA 25+00.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 26+70.00'NB' - STA 27+31.00'NB'
80 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	STORM SEWER	SHEET 60	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022502_SS.DWG
LAYOUT NAME - 022502_ss05

PLOT DATE : 3/12/2021 7:41 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

STA 32+15.00'NB' - STA 33+15.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

30A STA 32+65, 20.5' L
INLETS 2x3-H

30 STA 32+65, 12.0' L
MANHOLES 5-J

STA 34+32, 12.0' L
MANHOLES 5-J 31

STA 35+97, 20.5' L
INLETS 2x3-H 32A

STA 35+97, 12.0' L
MANHOLES 5-J 32

STA 35+53.00'NB' - STA 36+32.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

PIPE INSULATION REQUIRED
33'NB'+00

30B STA 32+65, 20.5' R
INLETS 2x3-H

34'NB'+00

35'NB'+00

36'NB'+00

37'NB'+00

38'NB'+00

STA 34+32, 37.6' R
INLETS 4-C 31A

EXISTING 12-INCH PVC
TO REMAIN

PIPE INSULATION REQUIRED

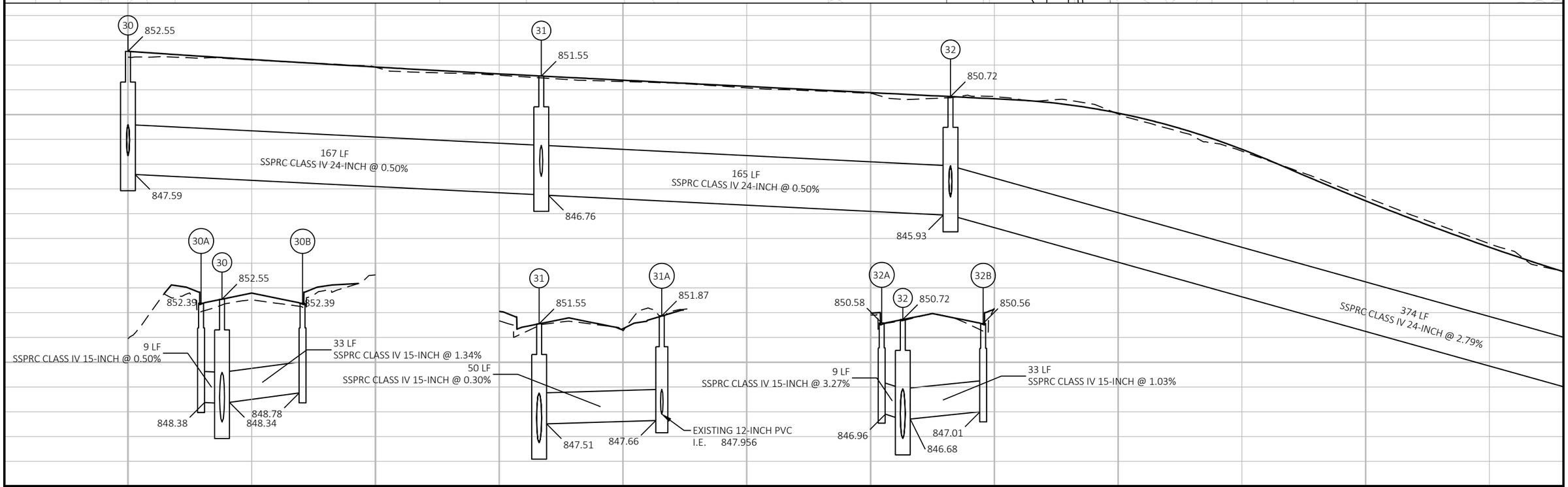
PIPE INSULATION REQUIRED

STA 35+97, 20.5' R
INLETS 2x3-H 32B

STA 32+15.00'NB' - STA 33+15.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 35+53.00'NB' - STA 36+37.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

N



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	STORM SEWER	SHEET 61	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022502_SS.DWG
LAYOUT NAME - 022502_ss06

PLOT DATE : 3/12/2021 7:42 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

STA 39+38.00'NB' - STA 40+18.00'NB'
100 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 42+57.00'NB' - STA 44+77.00'NB'
220 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

N

STA 39+71, 20.5' L
INLETS 2x3-H (33A)

STA 40+24, 12.0' L
MANHOLES 5-J (34)

STA 42+50, 12.0' L
MANHOLES 5-J (35)

STA 43+07, 20.5' L
INLETS 2x3-H (41A)

STA 43+07, 12.0' L
MANHOLES 5-J (41)

STA 43+62, 20.5' L
INLETS 2x3-H-S (42A)

STA 44+27, 34.1' L
INLETS 4-B (43A)

STA 44+27, 20.5' L
INLETS 2x3-H (43B)

STA 39+71, 12.0' L
MANHOLES 5-J (33)

STA 43+62, 12.0' L
MANHOLES 5-J (42)

STA 44+27, 12.0' L
MANHOLES 5-J (43)

STA 42+63, 12.0' R
MANHOLES 5-J (36)

STA 44+27, 20.5' R
INLETS 2x3-H (43C)

STA 39+38.00'NB' - STA 40+91.00'NB'
184 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 42+91.00'NB' - STA 44+77.00'NB'
186 LF, PIPE UNDERDRAIN 6-INCH WITH
GEOTEXTILE FABRIC AND AGGREGATE

STA 39+71, 20.5' R
INLETS 2x3-H (33B)

PIPE INSULATION REQUIRED

PIPE INSULATION REQUIRED

STA 40+17, 45.1' R
CATCH BASINS 5-H-S (34A)

STA 40+53, 44.2' R
INLETS 4-H-S (34B)

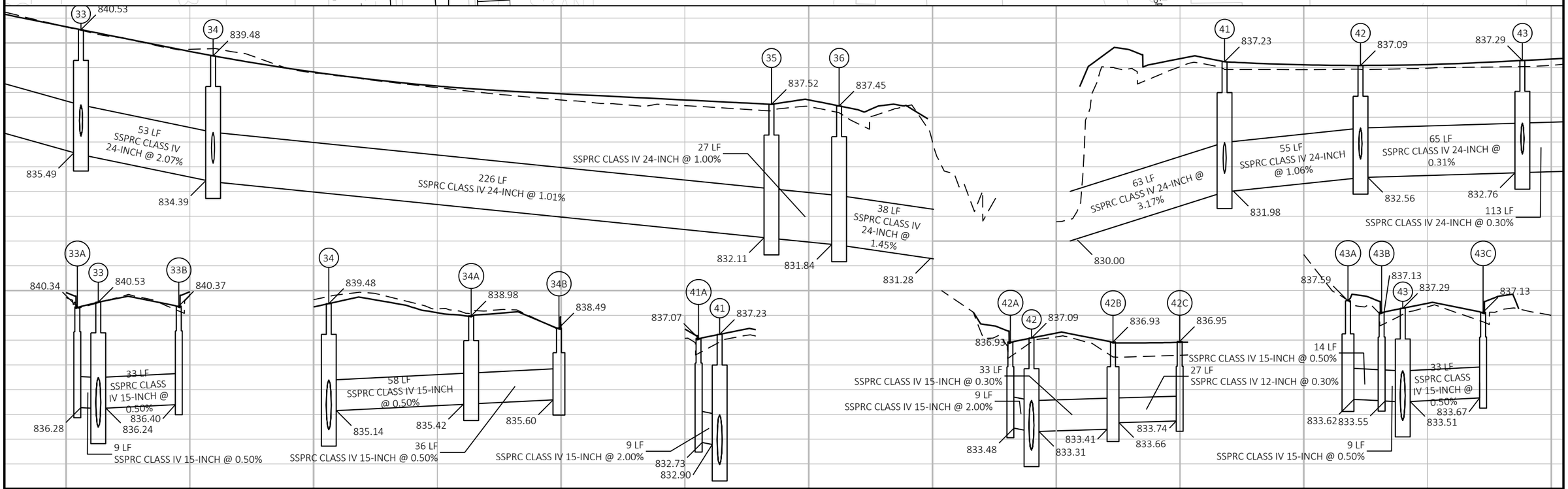
STA 42+79, 47.0' R
Null Structure (37)

STA 43+03, 50.4' R
Null Structure (40)

STA 43+67, 20.5' R
INLETS 4-H-S (42B)

STA 43+41, 20.5' R
INLETS 2x3-H (42C)

39'NB'+00 40'NB'+00 41'NB'+00 42'NB'+00 43'NB'+00 44'NB'+00

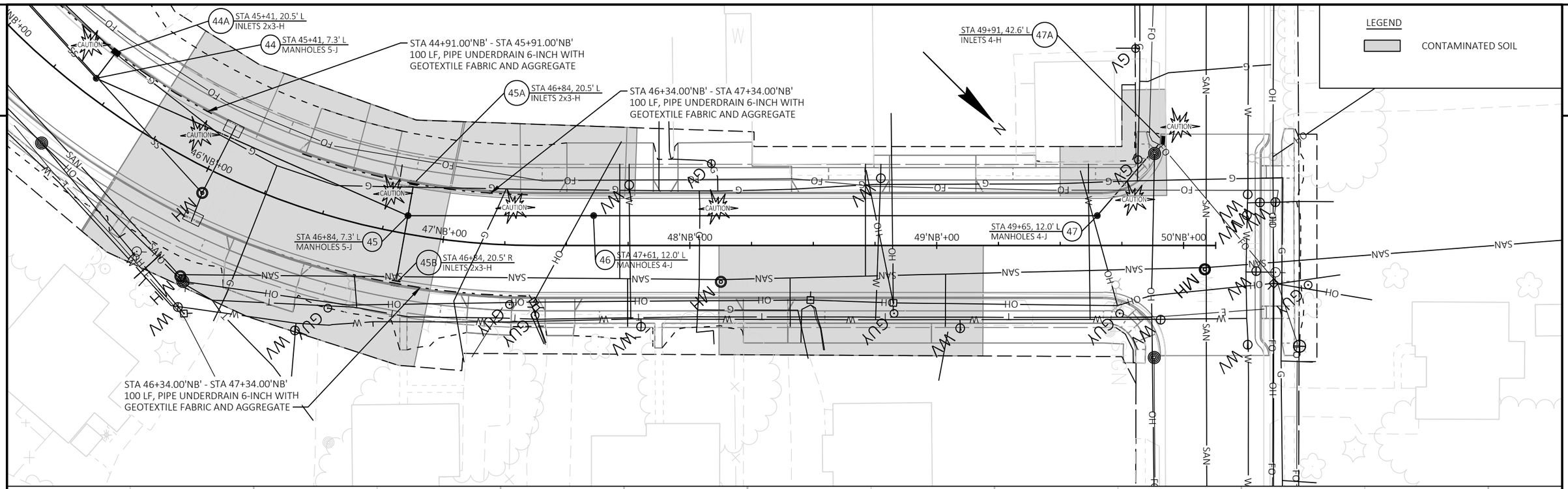


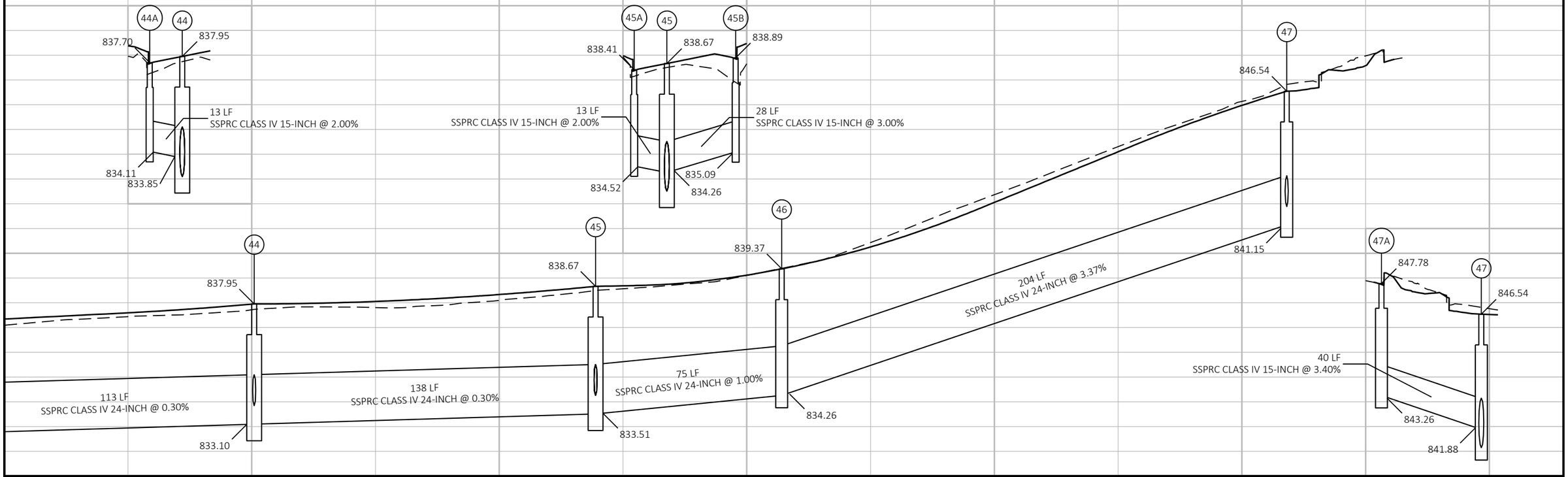
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	STORM SEWER	SHEET 62	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\022502_SS.DWG
LAYOUT NAME - 022502_ss07

PLOT DATE : 3/12/2021 7:42 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

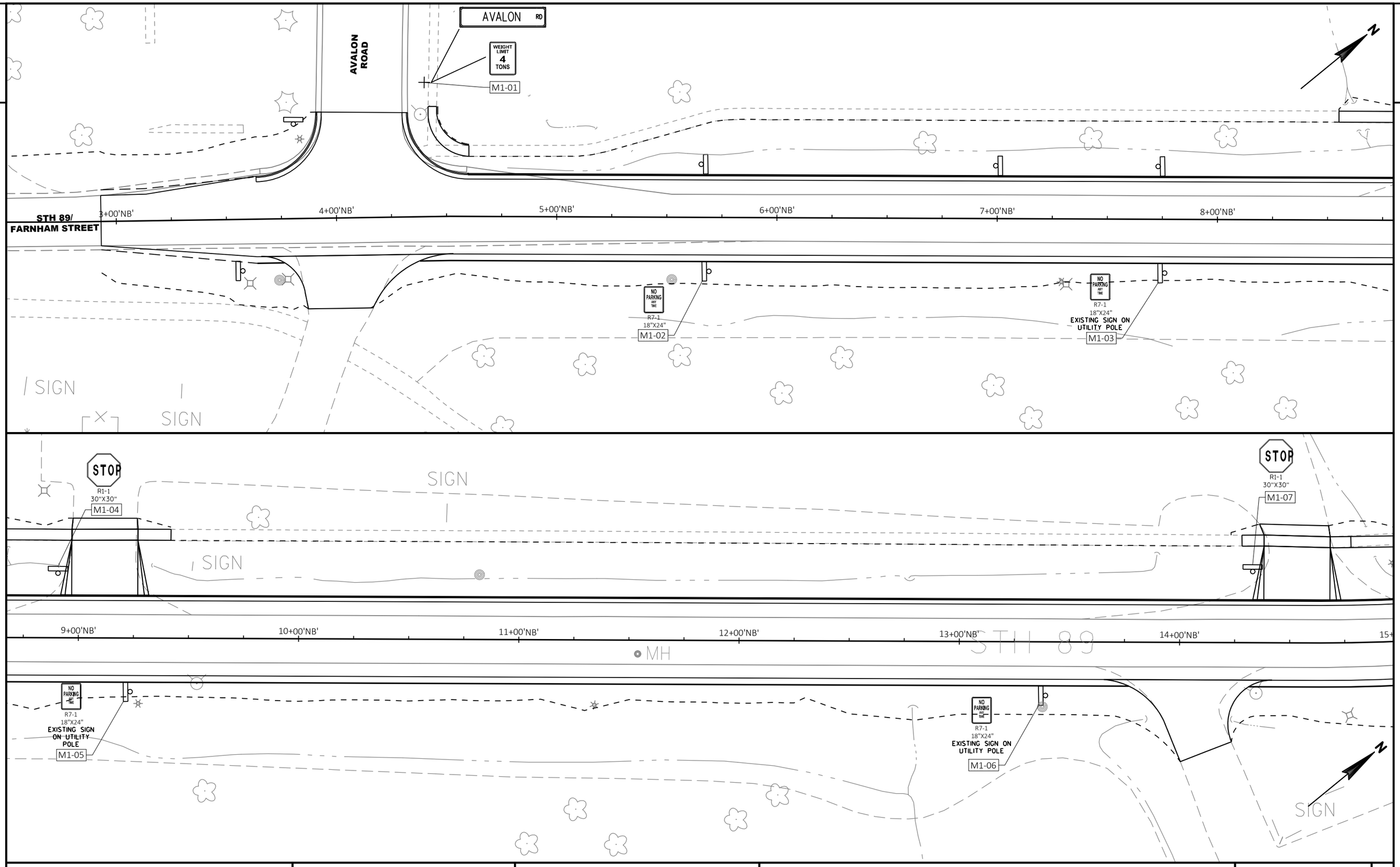
WISDOT/CADDS SHEET 41





PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	STORM SEWER	SHEET 63	E

2



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PERMANENT SIGNING - REMOVED AND REINSTALLED BY LOCALS	SHEET 64	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\023202_PS.DWG
LAYOUT NAME - 023202_ps01
PLOT DATE : 6/10/2021 10:40 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

2

WEATHER SIREN

15+00'NB'

16+00'NB'

17+00'NB'

18+00'NB'

19+00'NB'

20+00'NB'

21+00'NB'

MH

SIGN

SIGN

18"X24"

18"X24"

ADOPT A HIGHWAY SPONSORED BY COLUMBUS MIDDLE SCHOOL
I55-56
30"X36"
M2-06

NO PARKING ANY TIME
R7-1D
18"X24"
EXISTING SIGN ON UTILITY POLE
M2-01

M2-02
"LOCAL CITY SIGNS" (2)

M2-03
NO PARKING ANY TIME
R7-1D
18"X24"
SCHOOL CHAMPIONSHIP SIGN TO REMAIN

WATERLOO ST
FARNHAM ST
M2-04
R5-2
24"X24"

WATERLOO STREET

R7-52
18"X24"
NO PARKING BETWEEN SIGNS
M2-05

INL

R7-52
18"X24"
NO PARKING BETWEEN SIGNS
M2-07

N

M2-08
STOP
R1-1
30"X30"

M2-09
DO NOT ENTER
R5-1
30"X30"

ONE WAY
R6-2L
24"X30"
M2-10

15 MIN PARKING SCHOOL DAYS 7:00 AM TO 4:00 PM
18"X24"
M2-14

POST

15 MIN PARKING SCHOOL DAYS 7:00 AM TO 4:00 PM
18"X24"
M2-15

ONE WAY
R6-2L
24"X30"
M2-18

M2-19
ONE WAY
R6-2R
24"X30"

N

22+00'NB'

23+00'NB'

24+00'NB'

25+00'NB'

26+00'NB'

27+00'NB'

MH

M2-11
NO PARKING ANY TIME
R7-1D
EXISTING SIGN ON UTILITY POLE

M2-12
NO PARKING ANY TIME
R7-1D
EXISTING SIGN ON UTILITY POLE

NO PARKING ON THIS SIDE
R7-53R
18"X24"
M2-13

FRONTAGE ROAD

R7-52R
18"X24"
NO PARKING BETWEEN SIGNS
M2-16

MH

NO PARKING ON THIS SIDE
R7-53R
18"X24"
M2-17

INL

FLAG

FLAG

FLAG

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PERMANENT SIGNING - REMOVED AND REINSTALLED BY LOCALS	SHEET 65	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\023202_PS.DWG
LAYOUT NAME - 023202_ps02
PLOT DATE : 6/10/2021 10:40 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

2

M3-01

M3-03

STOP
R1-1
30"X30"
M3-02

M3-03

M3-04

M3-05

M3-09

M3-06

M3-07

M3-08

28+00'NB'
29+00'NB'
30+00'NB'
31+00'NB'
32+00'NB'
33+00'NB'
34+00'NB'
35+00'NB'
36+00'NB'
37+00'NB'
38+00'NB'
39+00'NB'

FOLSOM STREET

FOLSOM ST

FARNHAM ST

COLUMBUS AREA AQUATIC CENTER (SWIMMING) <---

COLUMBUS AREA AQUATIC CENTER (SWIMMING) --->

COLUMBUS FIREMANS PARK <---

COLUMBUS FIREMANS PARK --->

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PERMANENT SIGNING - REMOVED AND REINSTALLED BY LOCALS	SHEET 66	E

2

2

POET STREET

SIGN

N

INL

MH

40+00'NB'

41+00'NB'

42+00'NB'

43+00'NB'

44+00'NB'

45+00'NB'

INL

MH

POET ST

FARNHAM ST

M4-01

POET STREET

ANT

45+00'NB'

46+00'NB'

47+00'NB'

48+00'NB'

49+00'NB'

50+00'NB'

W

N

PARK AVE

FARNHAM ST

H

M4-02

INL

MH

FLAG

SIGN

STH 73/
PARK AVENUE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PERMANENT SIGNING - REMOVED AND REINSTALLED BY LOCALS	SHEET 67	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\023202_PS.DWG
LAYOUT NAME - 023202_ps04

PLOT DATE : 6/10/2021 10:40 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########

2

AVALON ROAD

1-02
STOP
R1-1
30"X30"
REMOVE & REPLACE

AVALON RD
REPLACED BY LOCALS

WEIGHT LIMIT 4 TONS
REPLACED BY LOCALS
M1-01

1-04
SPEED LIMIT 25
R2-1
24"X30"

1-05
END SCHOOL ZONE
S5-2
24"X30"
REMOVE & REPLACE

1-06
SOUTH 89
J4-1
24"X36"
REMOVE & REPLACE

3+00'NB' 4+00'NB' 5+00'NB' 6+00'NB' 7+00'NB' 8+00'NB'

STH 89/
FARNHAM STREET

1-01
S1-1
36"X36"
S16-9P
24"X12"
R2-6P
24"X18"
AHEAD
FINES HIGHER
REMOVE & REPLACE

1-03
REMOVE & REPLACE
SCHOOL
SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
S4-51
24"X48"
NO PARKING ANY TIME
R7-1
18"X24"
M1-02
REPLACED BY LOCALS

NO PARKING ANY TIME
R7-1
18"X24"
EXISTING SIGN ON UTILITY POLE
M1-03
REPLACED BY LOCALS

SIGN
SIGN

REPLACED BY LOCALS
STOP
R1-1
30"X30"
M1-04

SIGN
SIGN

REPLACED BY LOCALS
STOP
R1-1
30"X30"
M1-07

9+00'NB' 10+00'NB' 11+00'NB' 12+00'NB' 13+00'NB' 14+00'NB' 15+

MH
STH 89

M1-05
NO PARKING ANY TIME
R7-1
18"X24"
REPLACED BY LOCALS
EXISTING SIGN ON UTILITY POLE

M1-06
NO PARKING ANY TIME
R7-1
18"X24"
REPLACED BY LOCALS
EXISTING SIGN ON UTILITY POLE

SIGN

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PERMANENT SIGNING	SHEET 68	E

2-02
SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
S4-51
24"X48"
REMOVE & REPLACE

AHEAD
REMOVE

SPEED LIMIT 25
REMOVE

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
REMOVE

M2-06
ADOPT A HIGHWAY SPONSOR COLUMBUS MIDDLE SCHOOL
I55-56
30"X36"
REPLACED BY LOCALS

WEATHER SIREN

15+00'NB'

MH

16+00'NB'

17+00'NB'

18+00'NB'

19+00'NB'

20+00'NB'

21+00'NB'

18"X24"

2-01
SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
NO PARKING ANY TIME
S4-51
24"X48"
R7-1D
18"X24"
M2-01
REPLACED BY LOCALS
EXISTING SIGN ON UTILITY POLE

SIGN

2-03
COLUMBUS
POPULATION 5540
I2-3
66"X24"
REMOVE & REPLACE

AHEAD
NO PARKING ANY TIME
R7-1D
18"X24"
REMOVE
M2-03
REPLACED BY LOCALS

SIGN

SCHOOL CHAMPIONSHIP SIGN TO REMAIN

SPEED LIMIT 25
REMOVE

REMOVE & REPLACE
STOP
R1-1
30"X30"
2-04

INL

M2-05
NO PARKING BETWEEN SIGNS
R7-52
18"X24"
REPLACED BY LOCALS

M2-07
NO PARKING BETWEEN SIGNS
R7-52
18"X24"
REPLACED BY LOCALS

WATERLOO STREET

N

M2-08
STOP
R1-1
30"X30"
REPLACED BY LOCALS

M2-09
DO NOT ENTER
R5-1
30"X30"
REPLACED BY LOCALS

ONE WAY
R6-2L
24"X30"
M2-10
REPLACED BY LOCALS

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
S4-51
24"X48"
2-07

REPLACED BY LOCALS
15 MIN LOADING ZONE SCHOOL DAYS 7:00 AM TO 4:00 PM
18"X24"
M2-14

POST

SPEED LIMIT 25
REMOVE

M2-15
15 MIN LOADING ZONE SCHOOL DAYS 7:00 AM TO 4:00 PM
18"X24"
REPLACED BY LOCALS

M2-18
ONE WAY
R6-2L
24"X30"
REPLACED BY LOCALS

M2-19
ONE WAY
R6-2R
24"X30"
REPLACED BY LOCALS

N

22+00'NB'

23+00'NB'

24+00'NB'

25+00'NB'

26+00'NB'

MH

27+00'NB'

2-05
NORTH 89
J4-1
24"X36"
REMOVE & REPLACE

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
NO PARKING ANY TIME
S4-51
24"X48"
R7-1D
2-06
M2-11
REPLACED BY LOCALS
EXISTING SIGN ON UTILITY POLE

INL

M2-12
NO PARKING ANY TIME
R7-1D
REPLACED BY LOCALS
EXISTING SIGN ON UTILITY POLE

NO PARKING ON THIS SIDE
R7-53R
18"X24"
M2-13
REPLACED BY LOCALS

SPEED LIMIT 25
REMOVE

FRONTAGE ROAD

R7-52R
18"X24"
NO PARKING BETWEEN SIGNS
M2-16
REPLACED BY LOCALS

MH

STOP
R1-1
30"X30"
2-08

NO PARKING ON THIS SIDE
R7-53R
18"X24"
M2-17
REPLACED BY LOCALS

FLAG

FLAG

FLAG

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PERMANENT SIGNING	SHEET 69	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\023203_PS.DWG
LAYOUT NAME - 023203_ps02

PLOT DATE : 10/1/2021 11:32 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########

2

M3-01
NO PARKING ANY TIME
REPLACED BY LOCALS

REPLACED BY LOCALS
EXIT HERE ONLY
M3-03

REPLACED BY LOCALS
STOP
R1-1
30"X30"
M3-02

REPLACED BY LOCALS
EXIT HERE ONLY
M3-03

REPLACED BY LOCALS
NO PARKING ANY TIME
M3-04

SPEED LIMIT 25
REMOVE
DRUG FREE GUN FREE SCHOOL ZONE
M3-05
REPLACED BY LOCALS

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
S4-51
24"X48"
3-02

N

ISIGN

28+00'NB' 29+00'NB' 30+00'NB' 31+00'NB' 32+00'NB' 33+00'NB'

MH MH

FLAG

R2-1
24"X30"
SPEED LIMIT 25
S5-2
24"X30"
END SCHOOL ZONE
3-01

SPEED LIMIT 25
REMOVE
EXISTING SIGN ON UTILITY POLE

S1-1
36"X36"
S16-9P
24"X12"
R2-6P
24"X18"
AHEAD
FINES HIGHER
3-03

REMOVE & REPLACE
STOP
R1-1
30"X30"
3-04

FOLSOM STREET

M3-09
COLUMBUS AREA AQUATIC CENTER (SWIMMING)
--->
REPLACED BY LOCALS

N

SIGN

INL MH

34+00'NB' 35+00'NB' 36+00'NB' 37+00'NB' 38+00'NB' 39+00'NB'

MH MH

MH INL

INL INL

M3-06
COLUMBUS AREA AQUATIC CENTER (SWIMMING)
<---
REPLACED BY LOCALS

M3-07
FOLSOM ST
FARNHAM ST
REPLACED BY LOCALS

FOLSOM STREET

REMOVE & REPLACE
STOP
R1-1
30"X30"
3-05

M3-08
COLUMBUS FIREMANS PARK
<---
COLUMBUS FIREMANS PARK
--->
REPLACED BY LOCALS

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PERMANENT SIGNING	SHEET 70	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\023203_PS.DWG
LAYOUT NAME - 023203_ps03

PLOT DATE : 10/1/2021 11:32 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

2

2

STOP
R1-1
30"X30"
4-02
REMOVE & REPLACE

POET STREET

SPEED LIMIT 25
R2-1
24"X30"
4-04
REMOVE & REPLACE

SIGN

N

INL
MH
40+00'NB'
41+00'NB'
42+00'NB'
43+00'NB'
44+00'NB'
45+00'NB'

4-01
SPEED LIMIT 25
R2-1
24"X30"

REMOVE & REPLACE
STOP
R1-1
30"X30"
4-03

M4-01
POET ST
FARNHAM ST
REPLACED BY LOCALS

4-05
END JCT
89 73
J1-2
48"X39"
REMOVE & REPLACE

POET STREET

ANT

45+00'NB'
46+00'NB'
47+00'NB'
48+00'NB'
49+00'NB'
50+00'NB'

SPEED LIMIT 25
R2-1
24"X30"
4-06

W

FLAG
MH
SIGN

4-07
SOUTH 89
J4-1
24"X36"
REMOVE & REPLACE

REMOVE & REPLACE
SOUTH 73 NORTH 73 BUSINESS 151 TO 16
J3-4
96"X57"
4-13

4-10
REMOVE & REPLACE
S1-1

PARK AVE
FARNHAM ST
H
M4-01
REPLACED BY LOCALS

REMOVE & REPLACE
J3-1
24"X57"
SOUTH 89
REMOVE
4-12

*4-08 & 4-09 WILL REQUIRE 2"X2" TUBULAR POSTS

REMOVE & REPLACE
*4-08
STOP
R1-1
36"X36"

*4-09
SOUTH 89
J3-1
24"X57"
REMOVE & REPLACE

STH 73/
PARK AVENUE

S1-1
4-11

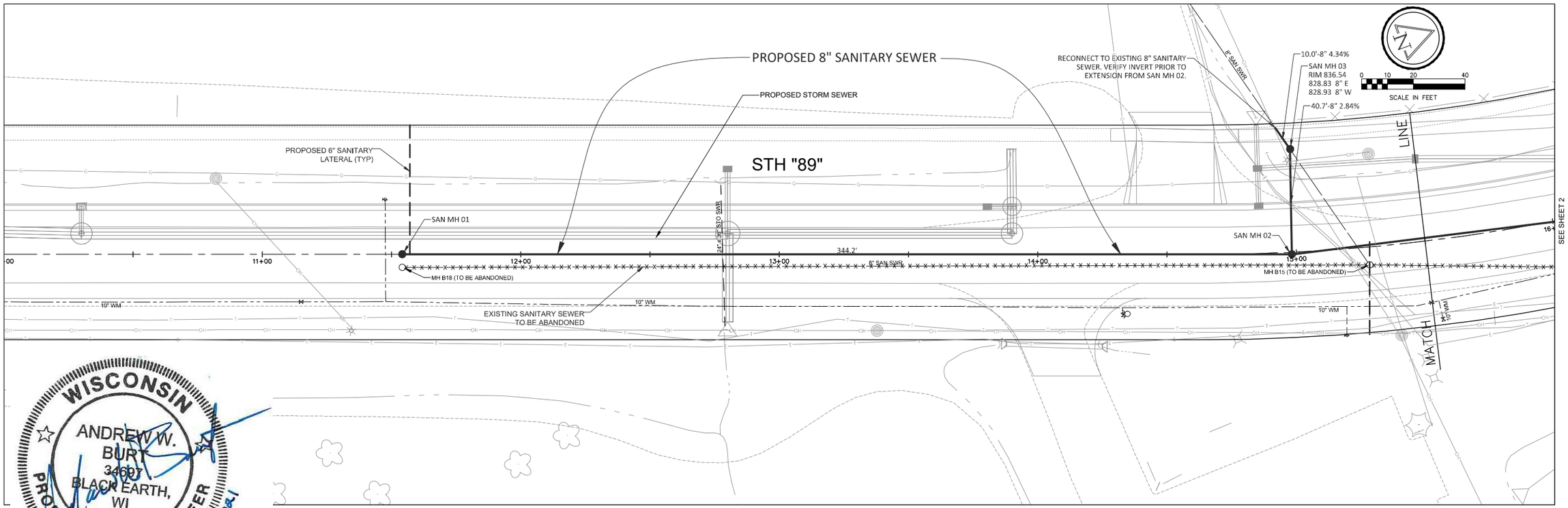
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PERMANENT SIGNING	SHEET 71	E

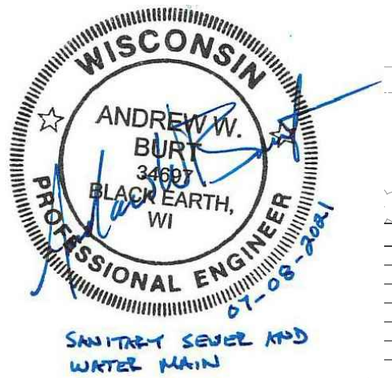
FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\023203_PS.DWG
LAYOUT NAME - 023203_ps04

PLOT DATE : 10/1/2021 11:32 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########

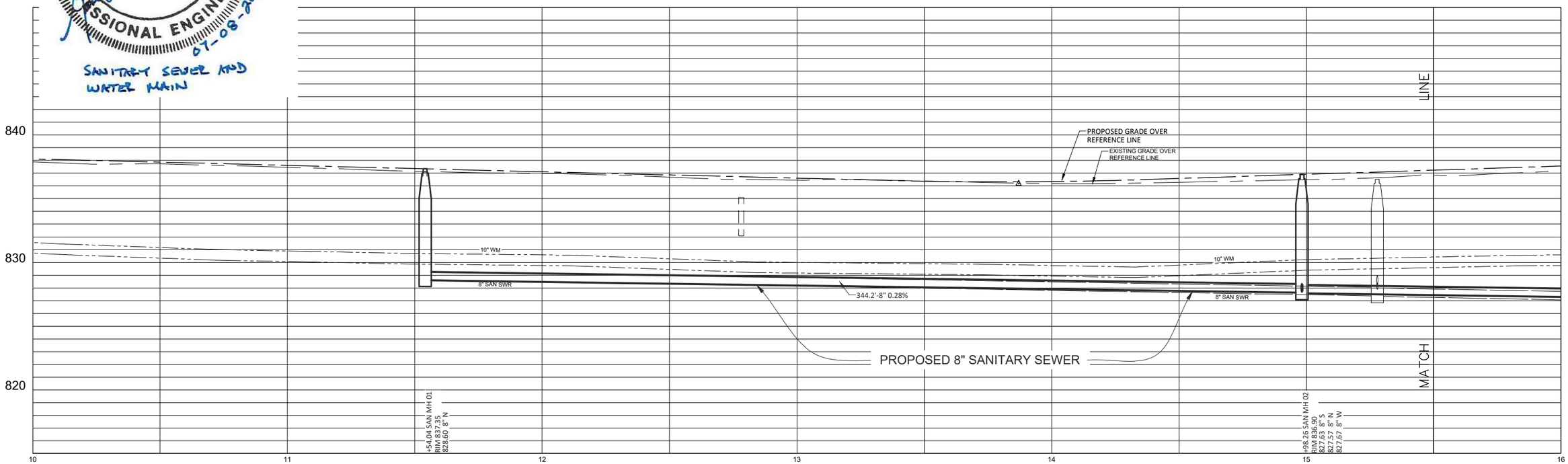
WISDOT/CADDS SHEET 44

2





SANITARY SEWER AND WATER MAIN



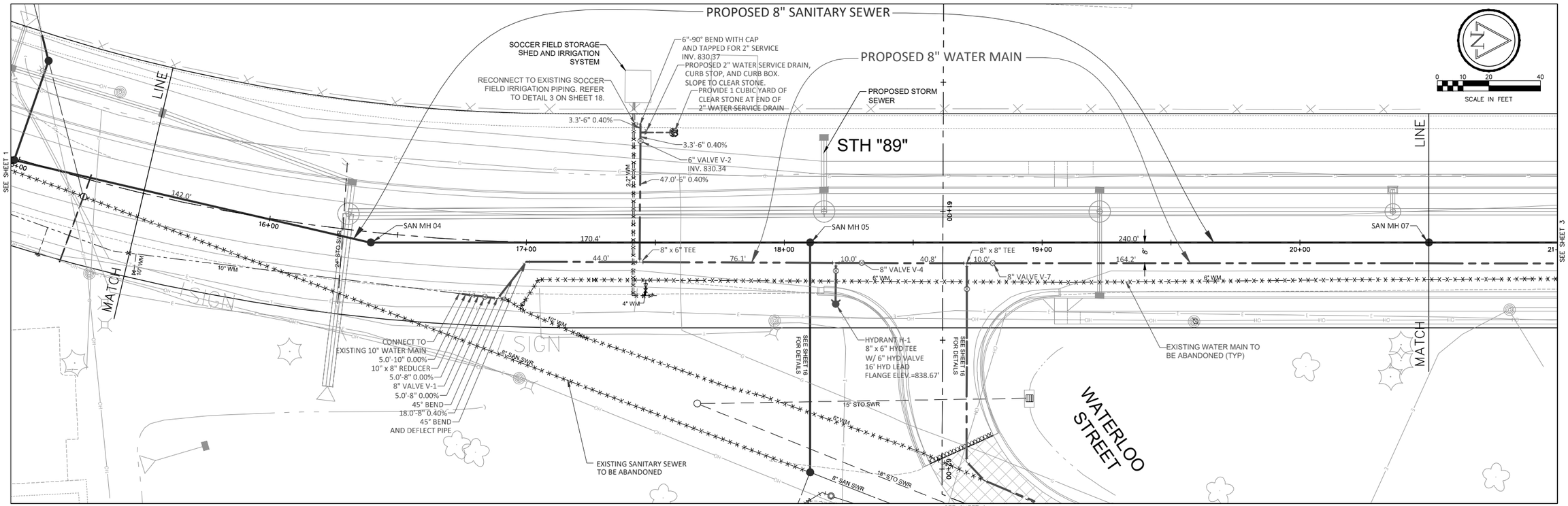
PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 72	E

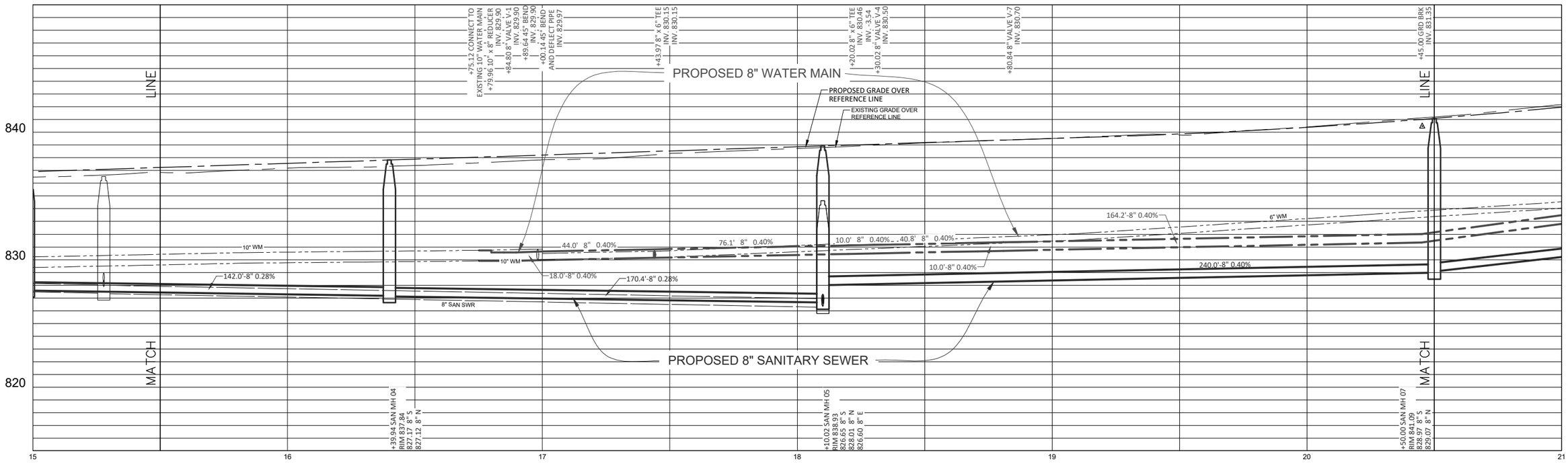
FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-001-CPP-STH 89-SW-01.DWG PLOT DATE : 7/15/2021 11:17 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

WISDOT/CADDS SHEET 42

LAYOUT NAME - Layout1

2





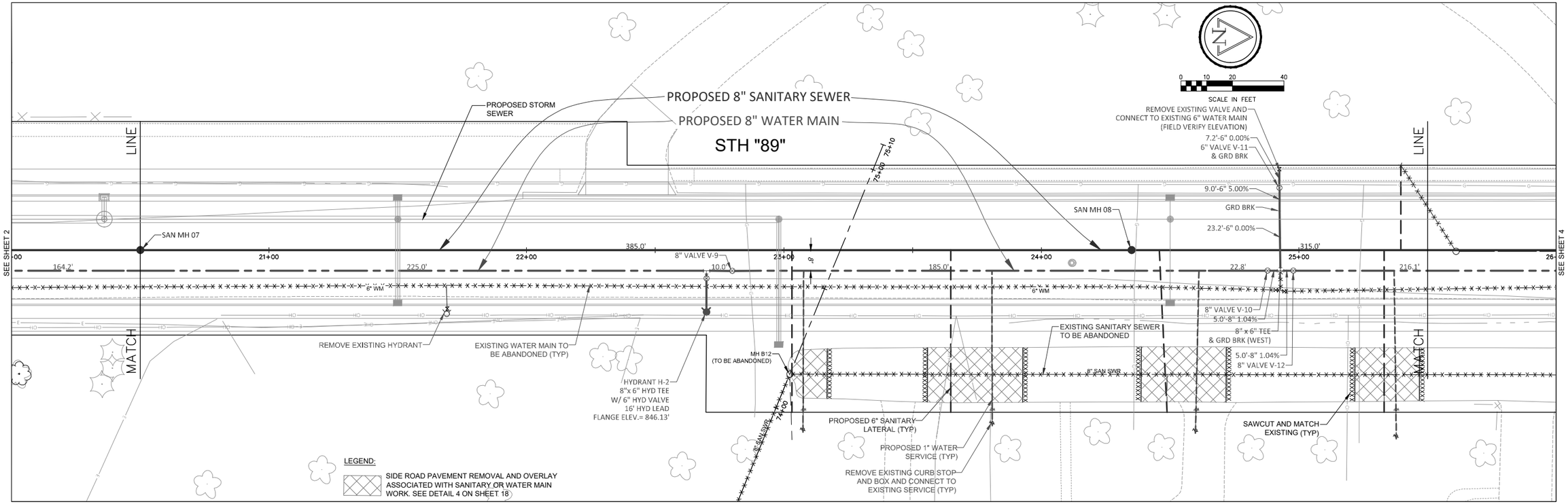
PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 73 E

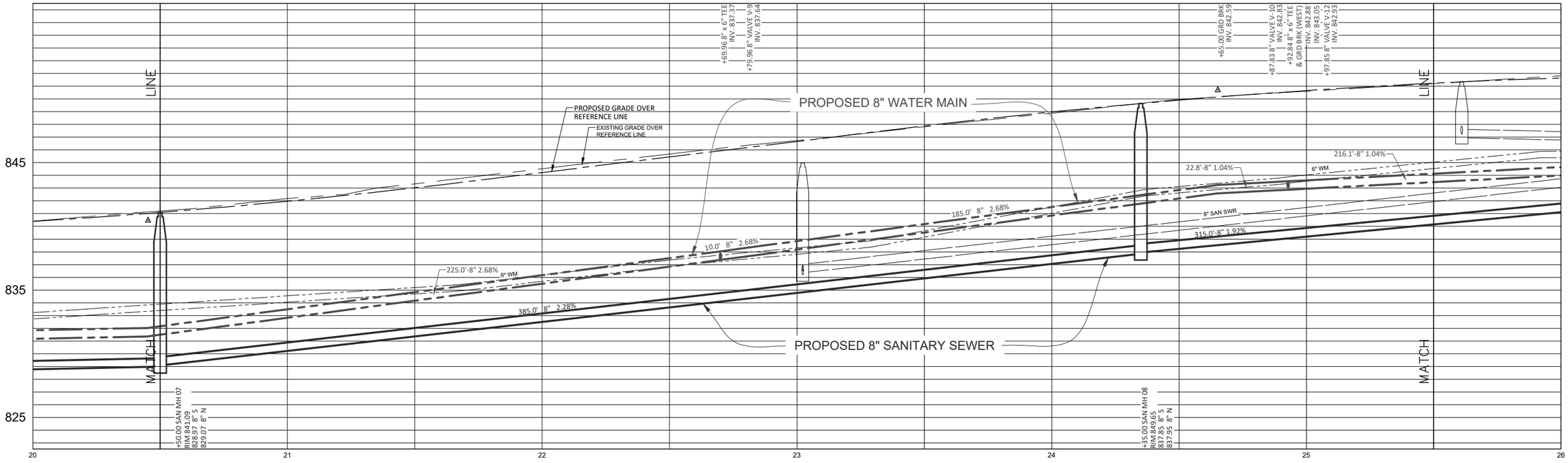
FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-002-CPP-STH 89-SW-02.DWG PLOT DATE : 7/15/2021 11:17 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

WISDOT/CADDS SHEET 42

LAYOUT NAME - Layout1

2





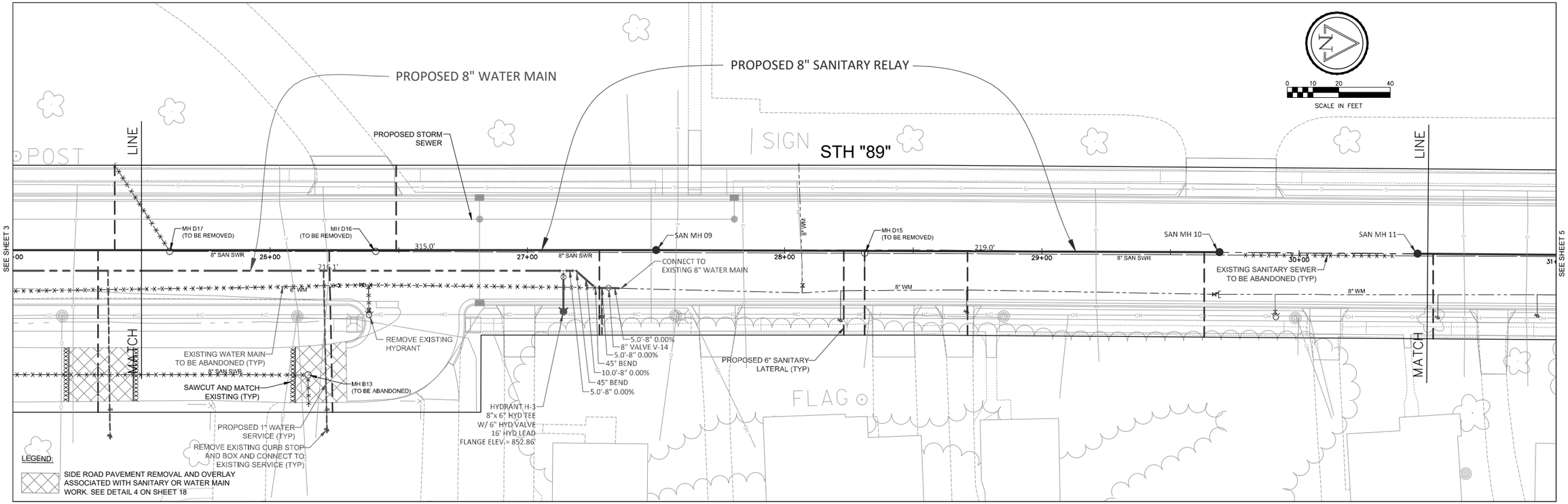
PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 74	E

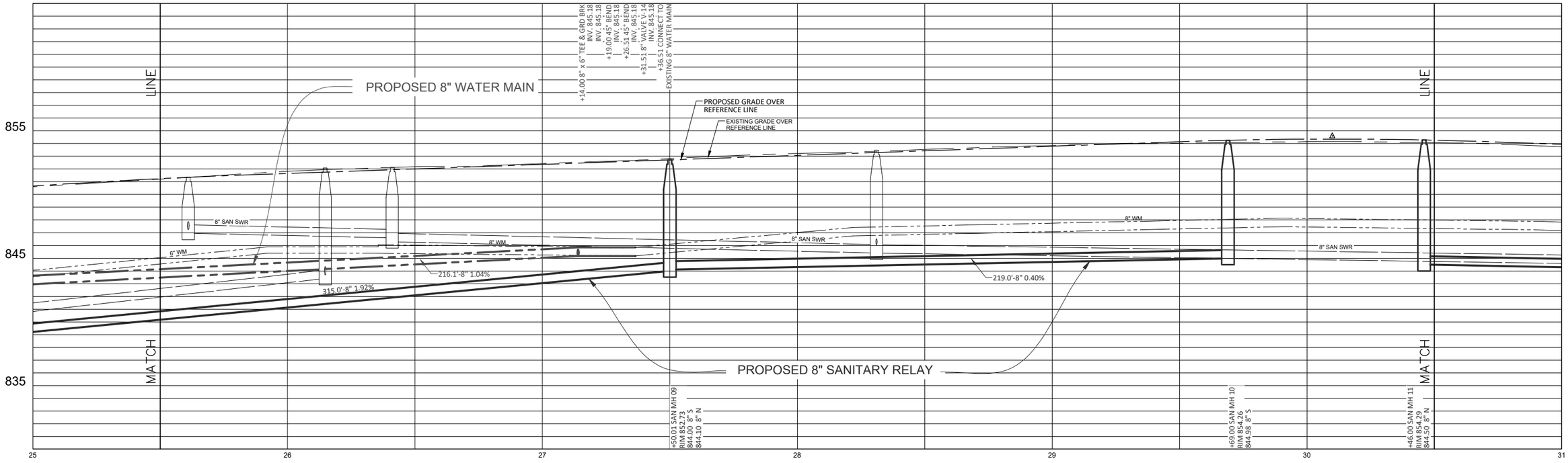
FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-003-CPP-STH 89-SW-03.DWG PLOT DATE : 7/15/2021 11:17 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

WISDOT/CADDS SHEET 42

LAYOUT NAME - Layout1

2





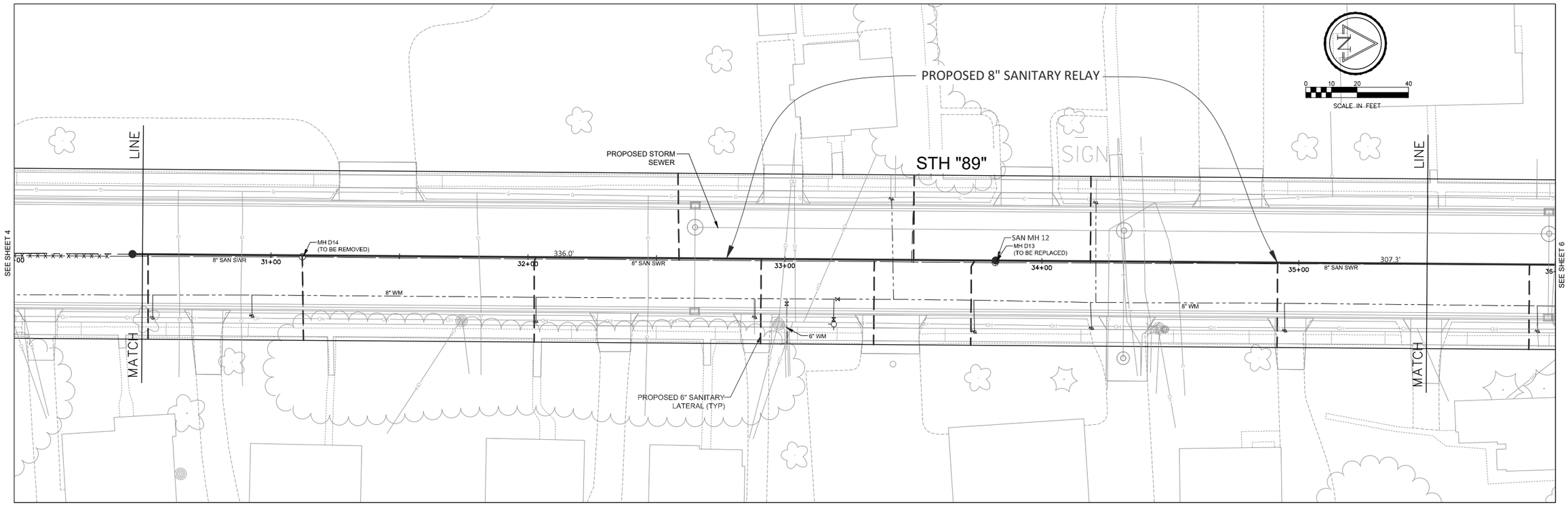
PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 75	E

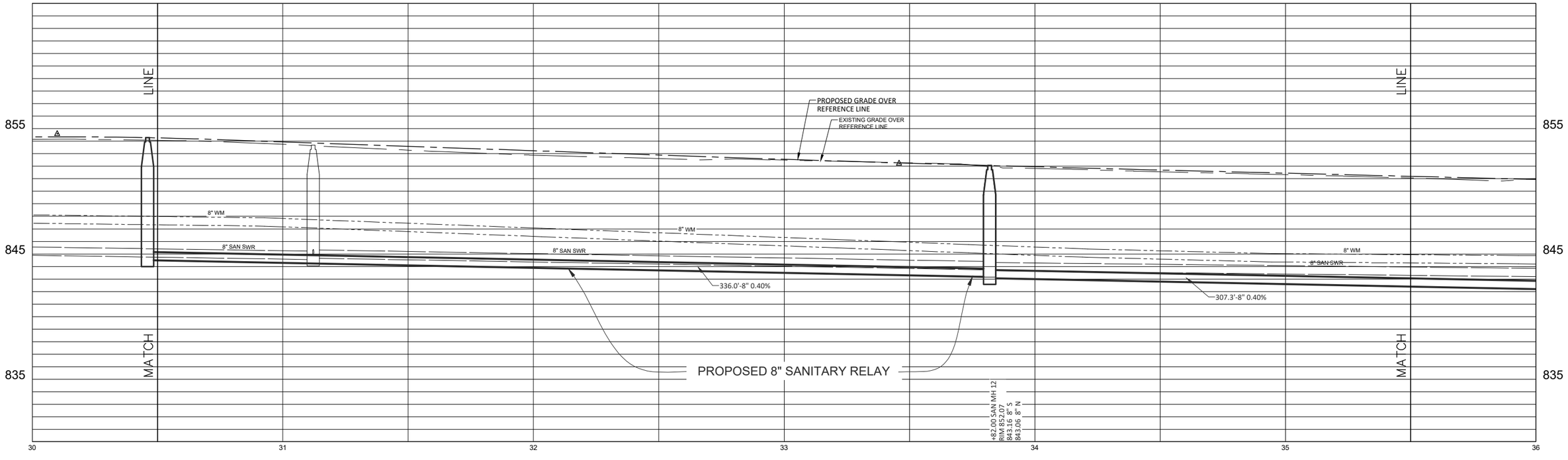
FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-004-CPP-STH 89-SW-04.DWG PLOT DATE : 7/15/2021 11:18 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

WISDOT/CADDS SHEET 42

LAYOUT NAME - Layout1

2





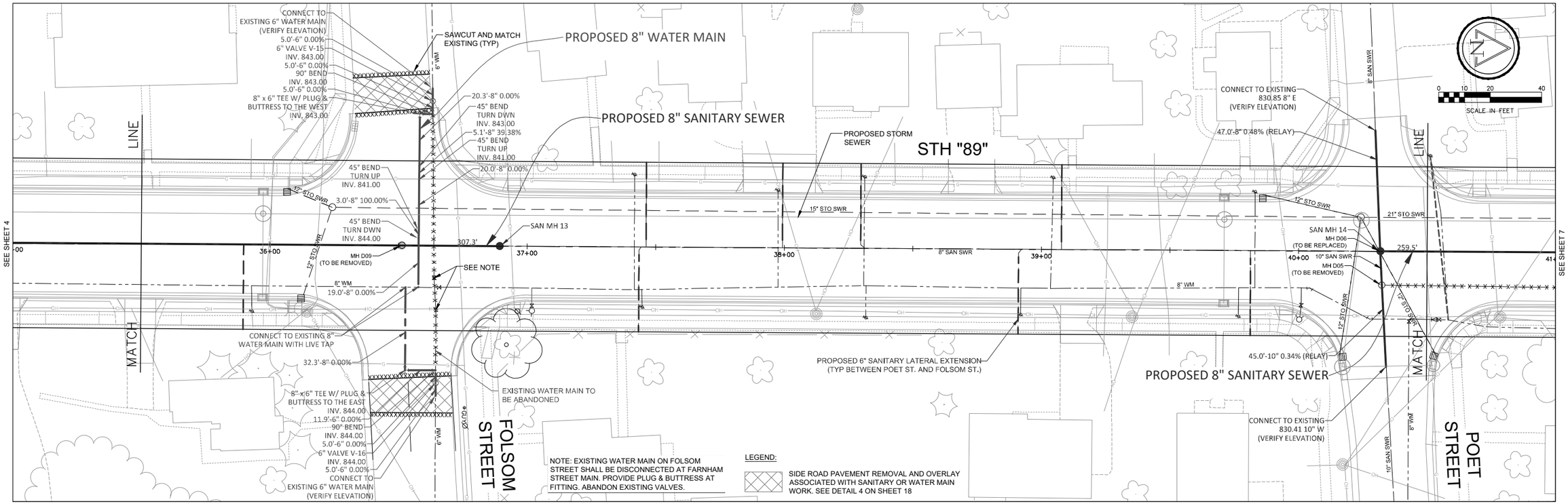
PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 76	E

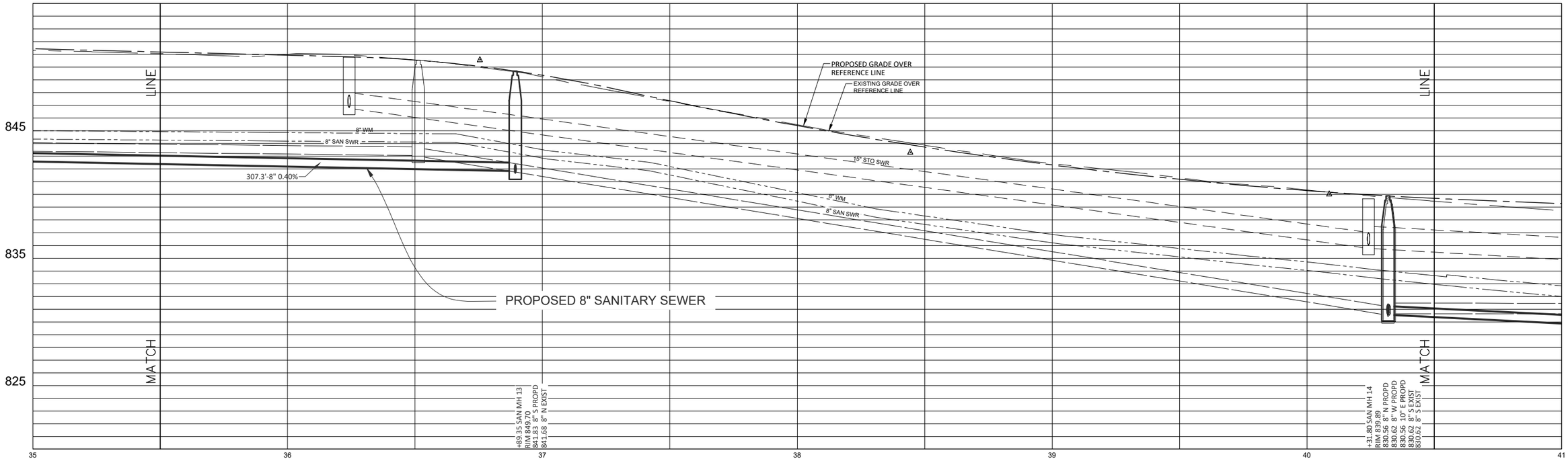
FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-005-CPP-STH 89-SW-05.DWG PLOT DATE : 7/15/2021 11:18 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

WISDOT/CADDS SHEET 42

LAYOUT NAME - Layout1

2





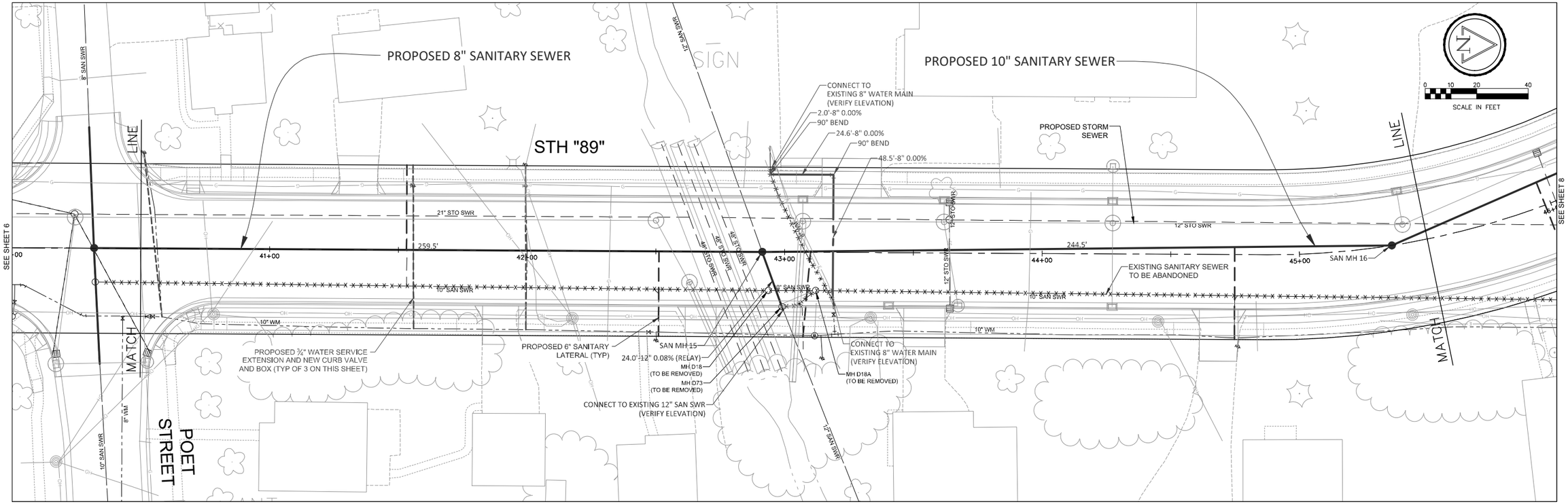
PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 77	E

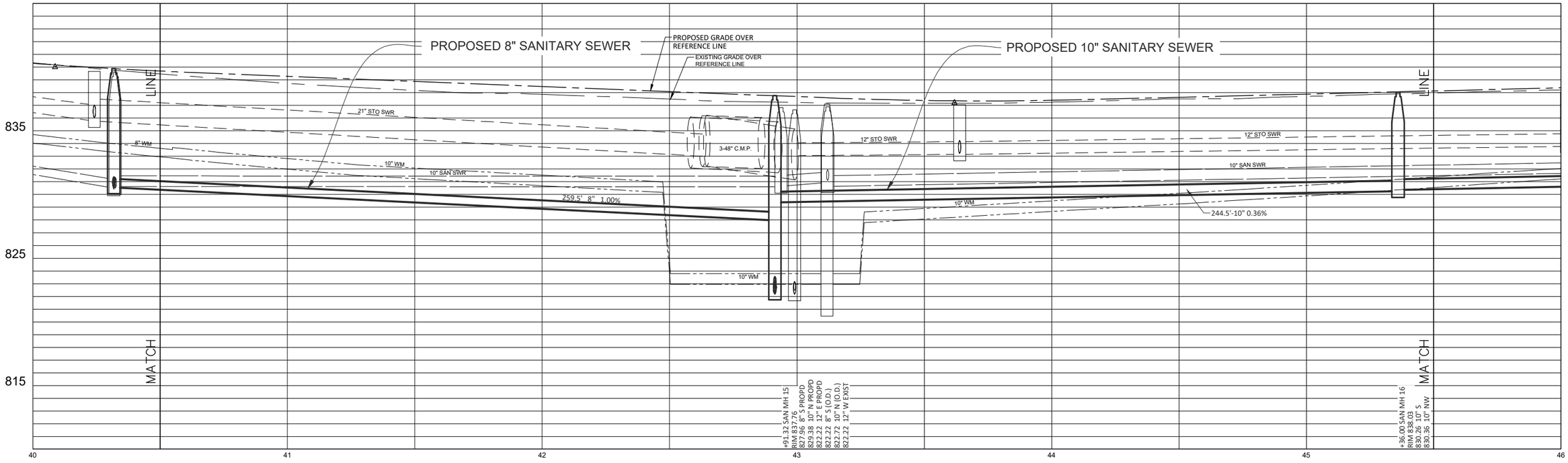
FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-006-CPP-STH 89-SW-06.DWG PLOT DATE : 7/15/2021 11:19 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

WISDOT/CADDS SHEET 42

LAYOUT NAME - Layout1

2





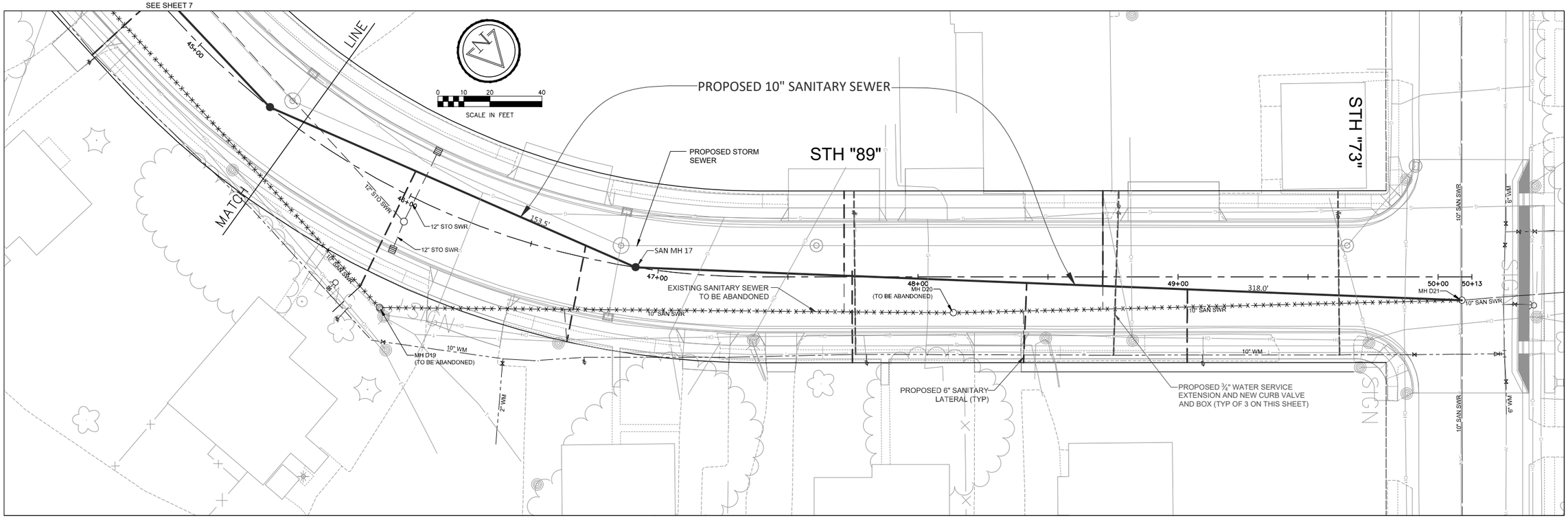
PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 78	E

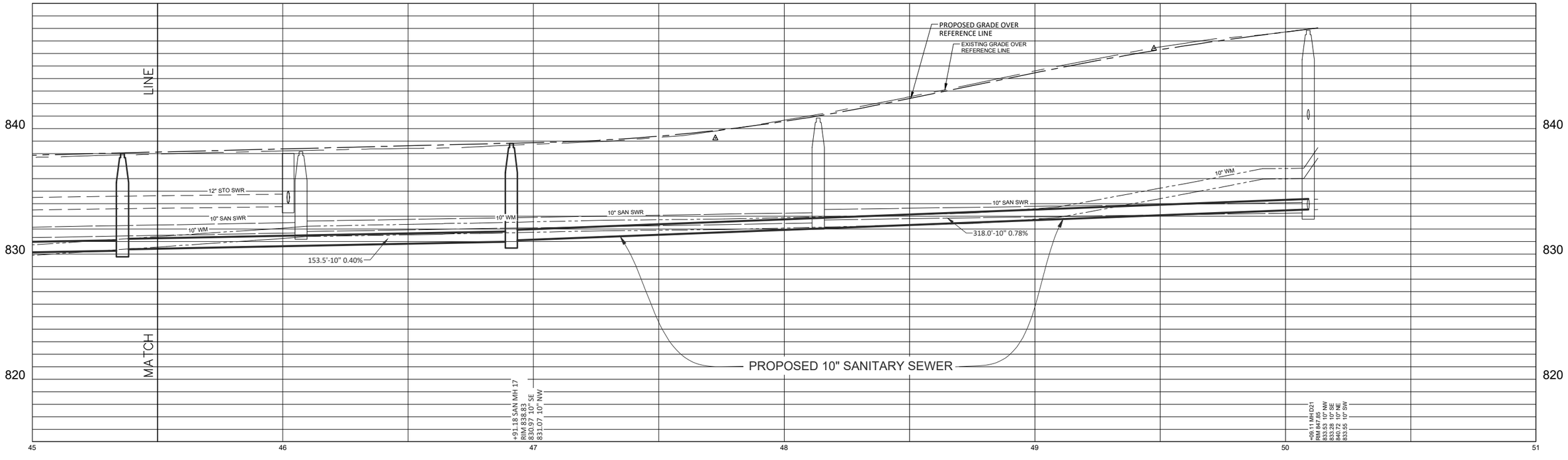
FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-007-CPP-STH 89-SW-07.DWG PLOT DATE : 7/15/2021 11:19 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

WISDOT/CADDS SHEET 42

LAYOUT NAME - Layout1

2





PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 79	E

FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-008-CPP-STH 89-SW-08.DWG PLOT DATE : 7/15/2021 11:19 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

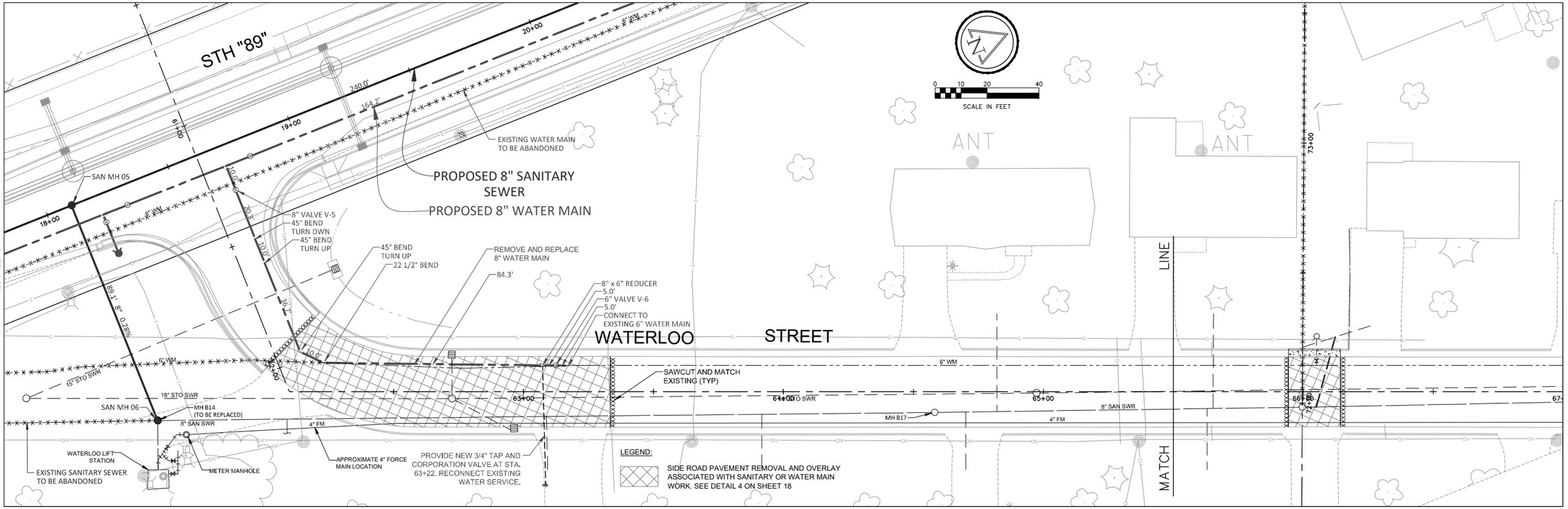
WISDOT/CADDS SHEET 42

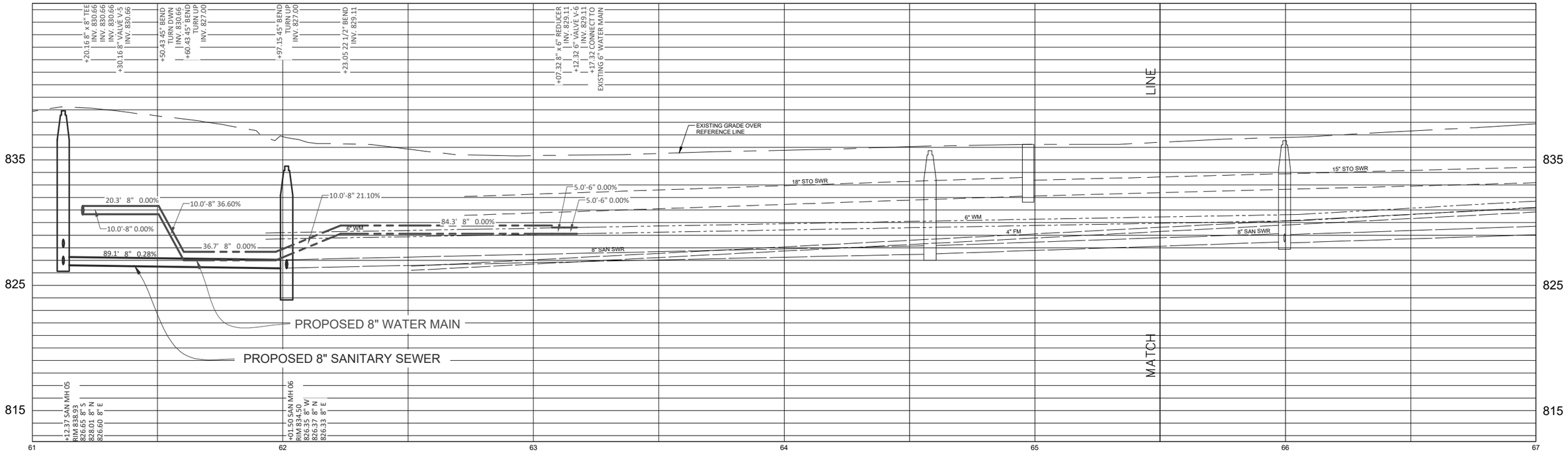
LAYOUT NAME - Layout1

SEE SHEET 2

SEE SHEET 10

SEE SHEET 2





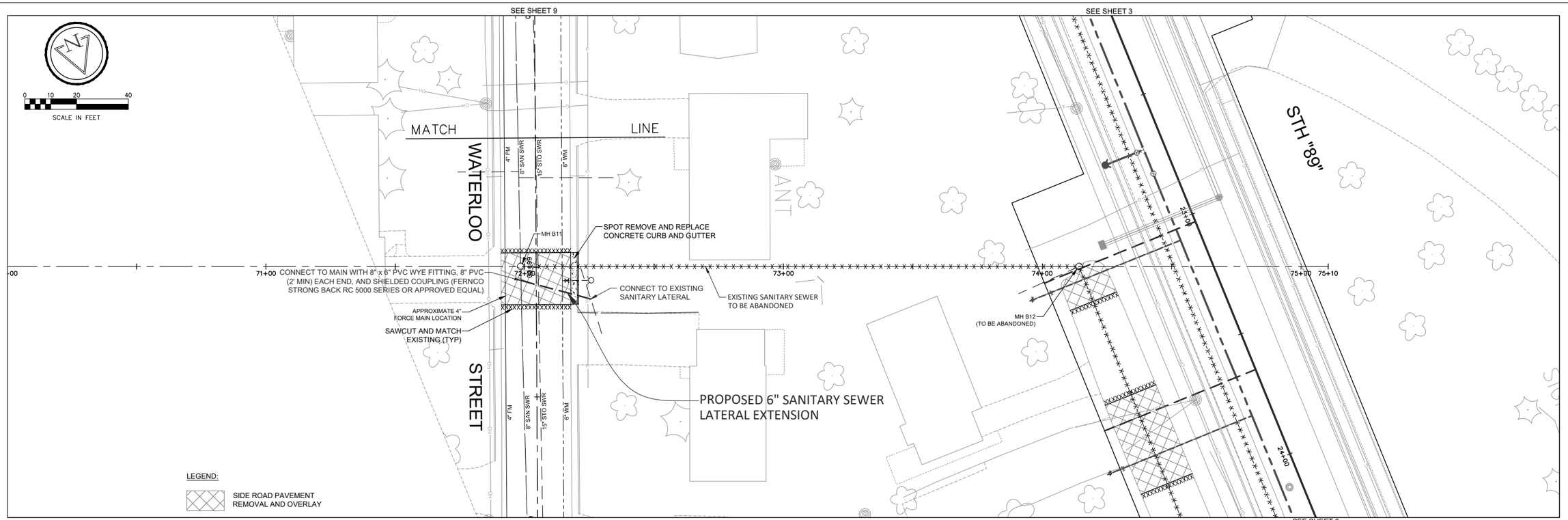
PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 80	E

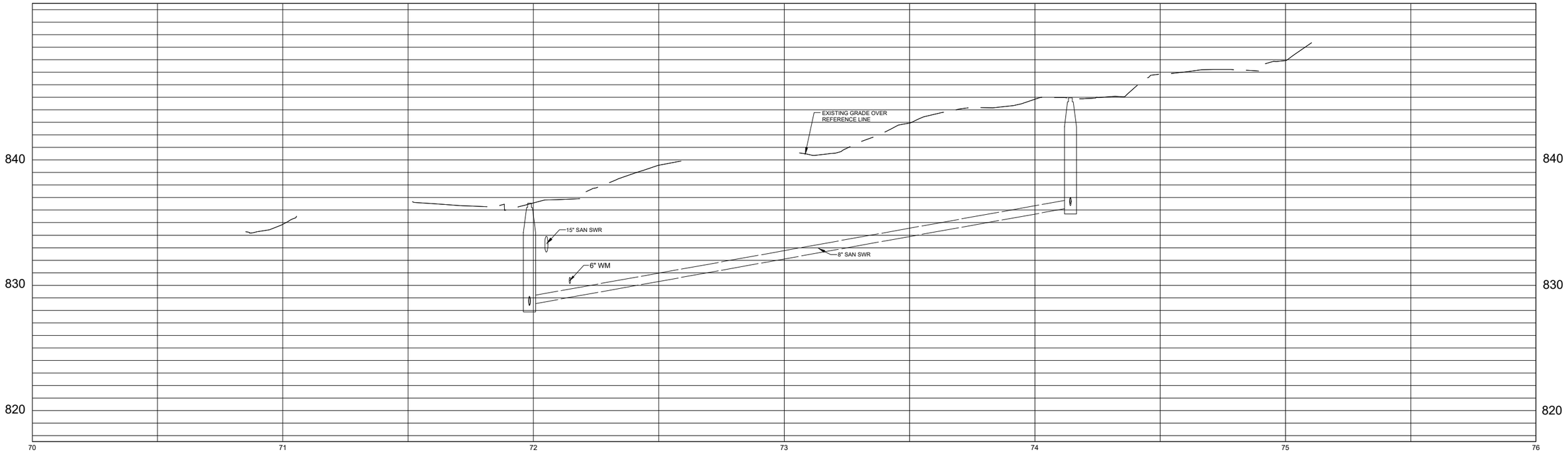
FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-009-CPP-WATERLOO STREET-SW-01.DWG PLOT DATE : 7/15/2021 11:20 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

WISDOT/CADDS SHEET 42

LAYOUT NAME - Layout1

2





PROJECT NO: 3670-01-72	HWY: STH 89	COUNTY: COLUMBIA	WATER MAIN AND SANITARY SEWER PLAN AND PROFILE	SHEET 81	E

FILE NAME : G:\C3D\8117_COLUMBUS\10044\DWG\Z-010-CPP-WATERLOO STREET-SW-02.DWG PLOT DATE : 7/15/2021 11:20 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : 1" = 10'

WISDOT/CADDS SHEET 42

LAYOUT NAME - Layout1

NOTES:

1. FREEWAY LIGHTING AND LOCAL STREET LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTIONS 652, 655, 656, 657, AND 659
2. LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, UNDER THE APPROVAL OF THE ENGINEER, 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 TO ILLUSTRATE AS BUILD CONDITIONS.
4. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.
5. ALL OPEN AND UN-TERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION.
6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGED ON ALL CONDUITS.
7. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.
8. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.
9. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (.PDF FORMAT) FOR ALL THE WORK BEING DONE.
10. WHERE MULTIPLE CIRCUITS ARE PRESENT IN THE SAME CONDUIT OR DUCT, CONTRACTOR SHALL CLEARLY LABEL EACH CIRCUIT.
11. WHERE LIGHTING WIRING IS LOCATED WITHIN A SINGLE POLE, ALL CIRCUITS SHALL BE CLEARLY LABELED.
12. LIGHTING PULL BOXES SHALL BE CLEARLY IDENTIFIED WITH "LIGHTING" ON THEIR COVERS IN PLAIN SIGHT.
13. 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.
14. CABINET BASES AND THE PULLBOXES AND CONDUIT WITHIN THE AREA OF CABINET BASES SHALL BE INSTALLED PER FIELD CONDITIONS (WITH ENGINEER APPROVAL). VERIFY THE LOCATION OF ALL ELECTRICAL FACILITIES WITH THE ENGINEER PRIOR TO INSTALLING.
15. ALL LIGHT CIRCUITS TO BE 120/240 3-PHASE. STREET LIGHTS AND POLE RECEPTACLES (WHEN PRESENT) TO OPERATE AT 240 VOLTS.
16. CONDUIT MUST BE PLACED PRIOR TO CURB AND GUTTER AND SIDEWALK CONSTRUCTION.

STREET LIGHTING PLANS PREPARED BY:

WISCONSIN
Amanda M. Johnson
45263-6
Indianapolis
IN
PROFESSIONAL ENGINEER

SIGNATURE:

DATE: 9/28/21 SHEETS: 1 to 8

2

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	LIGHTING PLAN - DETAILS	SHEET 82	E

2

2

AVALON ROAD

N

2" CONDUIT
#6 A,B, C,N, #8 GND

2" CONDUIT
#6 A,B,C,N, #8 GND

2" CONDUIT
#6 A,B,C,N, #8 GND

2" CONDUIT
#6 A,B,C,N, #8 GND

2" CONDUIT
#6 A,B,C,N, #8 GND

TLE

ERW

3+65, 24.00' LT
LED A 5(T) 4 ANB1

4+55, 24.00' LT
LED A 5(T) 4 BNB2

5+57, 24.00' LT
LED A 5(T) 4 CNB3

6+57, 24.00' LT
LED A 5(T) 4 ANB4

7+61, 24.00' LT
LED A 5(T) 4 BNB5

STH 89

3'NB' 4'NB' 5'NB' 6'NB' 7'NB' 8'NB'

TLE

ERW

1 OF 8

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- 2" CONDUIT
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULL BOX- 24" X 42"

STATION — OFFSET
100+00.00, 100.00' RT
LED B A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	LIGHTING PLAN - LAYOUTS	SHEET 83	E

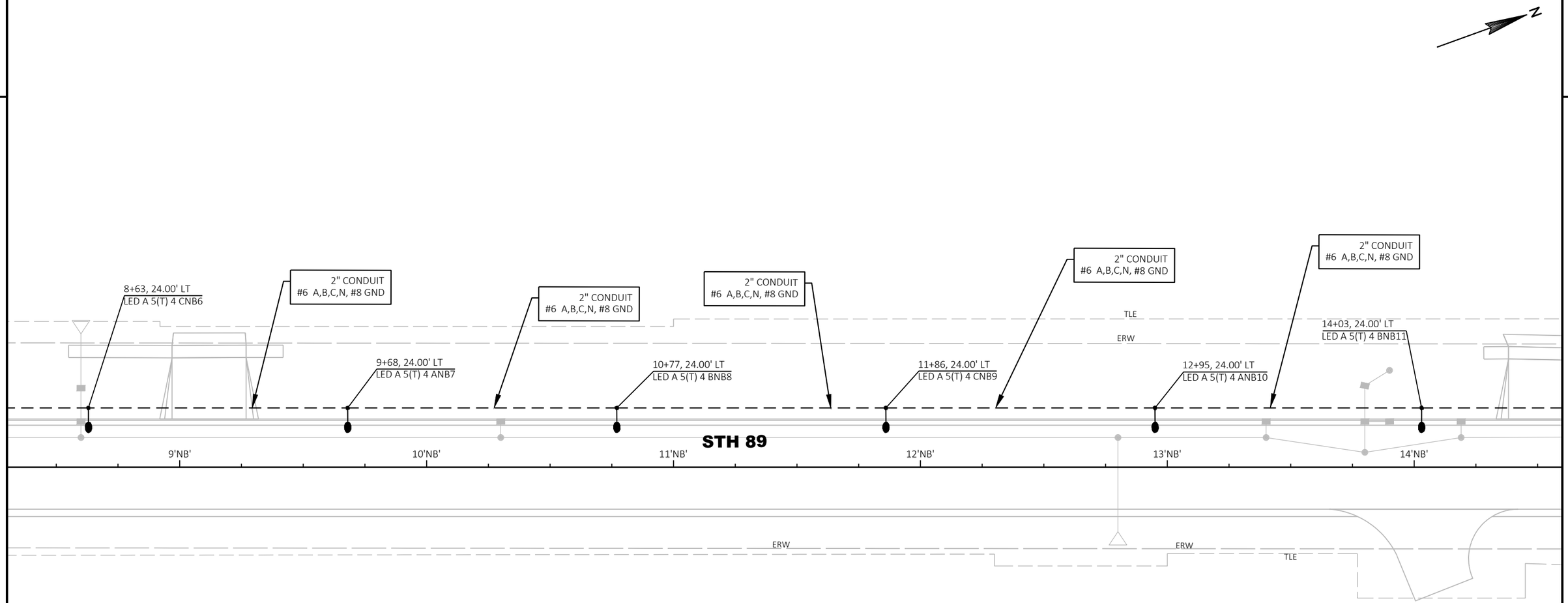
FILE NAME : M:\49XX\4930.DP.STH89.COL\CADDS\36700101\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp01

PLOT DATE : 9/28/2021 1:53 PM PLOT BY : LAUREN MAENHOUT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2



2 OF 8

LIGHTING PLAN LEGEND

- ⊠ LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- 2" CONDUIT
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULL BOX- 24" X 42"

STATION — OFFSET
100+00.00, 100.00' RT
LED B A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	LIGHTING PLAN - LAYOUTS	SHEET 84	E

FILE NAME : M:\49XX\4930.DP.STH89.COL\CADDS\36700101\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp02

PLOT DATE : 9/28/2021 1:53 PM PLOT BY : LAUREN MAENHOUT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

2" CONDUIT
#6 A,B,C,N, #8 GND

15+14, 24.00' LT
LED A 5(T) 4 CNB12

2" CONDUIT
#6 A,B,C,N, #8 GND

16+11, 24.00' LT
LED A 5(T) 4 ANB13

2" CONDUIT
#6 A,B,C,N, #8 GND

17+08, 24.00' LT
LED A 5(T) 4 BNB14

2" CONDUIT
#6 A,B,C,N, #8 GND

18+03, 24.00' LT
LED A 5(T) 4 CNB15

2" CONDUIT
#6 A,B,C,N, #8 GND

18+97, 24.00' LT
LED A 5(T) 4 ANB16

2" CONDUIT
#6 A,B,C,N, #8 GND

19+98, 24.00' LT
LED A 5(T) 4 BNB17

TLE

ERW

15'NB'

16'NB'

17'NB'

18'NB'

19'NB'

20'NB'

STH 89

ERW

TLE

RW

TLE

ERW

WATERLOO STREET

3 OF 8

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- 2" CONDUIT
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULL BOX- 24" X 42"

STATION — OFFSET
100+00.00, 100.00' RT
LED B A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	LIGHTING PLAN - LAYOUTS	SHEET 85	E

FILE NAME : M:\49XX\4930.DP.STH89.COL\CADDS\36700101\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp03
PLOT DATE : 9/28/2021 1:53 PM
PLOT BY : LAUREN MAENHOUT
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

2" CONDUIT
#6 A,B,C,N, #8 GND

20+99, 24.00' LT
LED A 5(T) 4 CNB18

22+00, 24.00' LT
LED A 5(T) 4 ANB19

2" CONDUIT
#4 A,B,C,N, #8 GND

2" CONDUIT
#6 A,B,C,N, #8 GND

23+01, 24.00' LT
LED A 5(T) 4 BNB20

TLE

ERW

2" CONDUIT
#6 A,B,C,N, #8 GND

24+02, 24.00' LT
LED A 5(T) 4 CNB21

2" CONDUIT
#6 A,B,C,N, #8 GND

25+03, 24.00' LT
LED A 5(T) 4 ANB22

2" CONDUIT
#6 A,B,C,N, #8 GND

26+08, 24.00' LT
LED A 5(T) 4 BNB23

2" CONDUIT
#6 A,B,C,N, #8 GND

26+87, 24.00' LT
LED A 5(T) 4 CNB24

21'NB' 22'NB' 23'NB' 24'NB' 25'NB' 26'NB' 27'NB'

STH 89

TLE

ERW

TLE

FRONTAGE ROAD

4 OF 8

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- 2" CONDUIT
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULL BOX- 24" X 42"

STATION — OFFSET
100+00.00, 100.00' RT
LED B A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	LIGHTING PLAN - LAYOUTS	SHEET 86	E

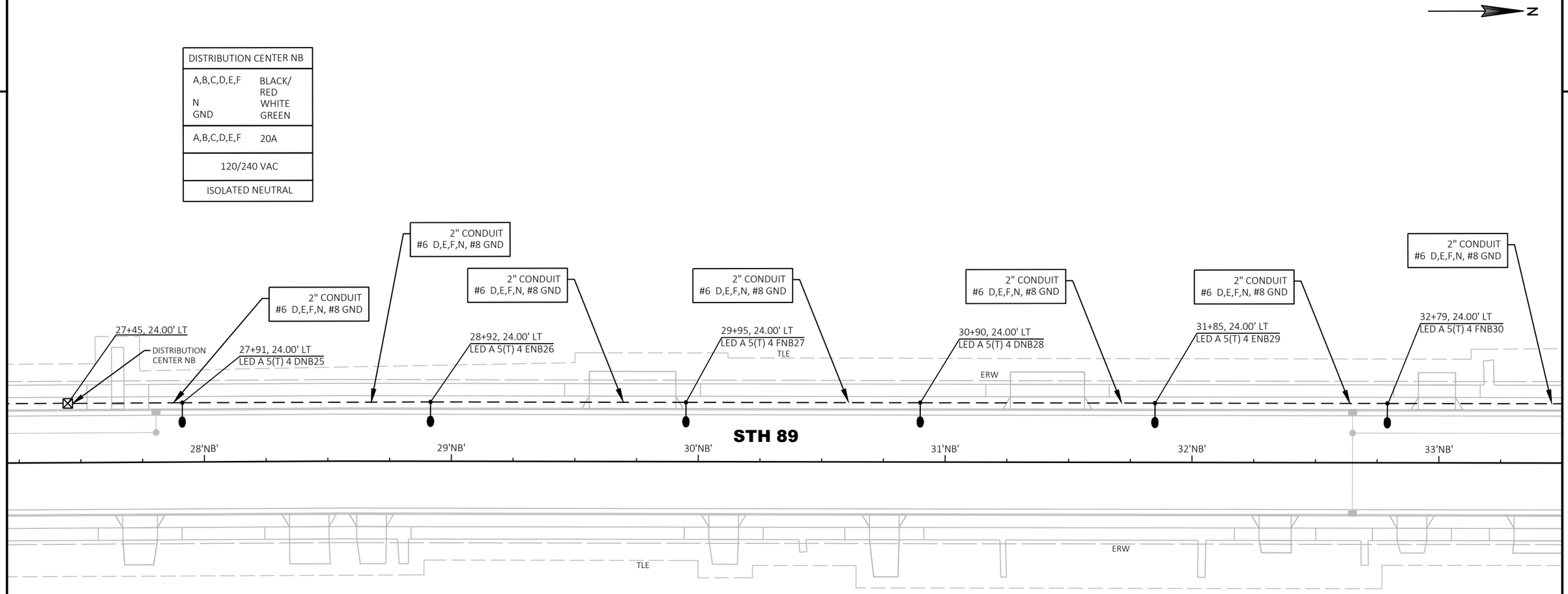
FILE NAME : M:\49XX\4930.DP.STH89.COL\CADDS\36700101\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp04

PLOT DATE : 9/28/2021 1:53 PM PLOT BY : LAUREN MAENHOUT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

DISTRIBUTION CENTER NB	
A,B,C,D,E,F	BLACK/ RED
N	WHITE
GND	GREEN
A,B,C,D,E,F	20A
120/240 VAC	
ISOLATED NEUTRAL	



5 OF 8

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- 2" CONDUIT
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULL BOX- 24" X 42"

STATION — OFFSET
100+00.00, 100.00' RT
LED B A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	LIGHTING PLAN - LAYOUTS	SHEET 87	E

FILE NAME : M:\49XX\4930.DP.STH89.COL\CADDS\36700101\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp05
PLOT DATE : 9/28/2021 1:53 PM
PLOT BY : LAUREN MAENHOUT
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

FOLSOM STREET

ERW

ERW

2" CONDUIT
#6 D,E,F,N, #8 GND

33+81, 24.00' LT
LED A 5(T) 4 DNB31

2" CONDUIT
#6 D,E,F,N, #8 GND

34+89, 24.00' LT
LED A 5(T) 4 ENB32

2" CONDUIT
#6 D,E,F,N, #8 GND

35+95, 24.00' LT
LED A 5(T) 4 FNB33

2" CONDUIT
#6 D,E,F,N, #8 GND

36+86, 25.08' LT
LED A 5(T) 4 DNB34

2" CONDUIT
#6 D,E,F,N, #8 GND

37+76, 24.00' LT
LED A 5(T) 4 ENB35

38+86, 24.00' LT
LED A 5(T) 4 FNB36

39+76, 24.00' LT
LED A 5(T) 4 DNB37

2" CONDUIT
#6 D,E,F,N, #8 GND

TLE

ERW

RW

TLE

ERW

STH 89

34'NB'

35'NB'

36'NB'

37'NB'

38'NB'

39'NB'

ERW

TLE

RW

RW

ERW

TLE

FOLSOM STREET

ERW

ERW

6 OF 8

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- 2" CONDUIT
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULL BOX- 24" X 42"

STATION — OFFSET
100+00.00, 100.00' RT
LED B A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	LIGHTING PLAN - LAYOUTS	SHEET 88	E

FILE NAME : M:\49XX\4930.DP.STH89.COL\CADDS\36700101\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp06

PLOT DATE : 9/28/2021 1:53 PM PLOT BY : LAUREN MAENHOUT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

POET STREET

ERW

ERW

2" CONDUIT
#6 D,E,F,N, #8 GND

40+64, 24.75' LT
LED A 5(T) 4 ENB38

41+46, 24.00' LT
LED A 5(T) 4 FNB39

2" CONDUIT
#6 D,E,F,N, #8 GND

42+44, 24.00' LT
LED A 5(T) 4 DNB40

2" CONDUIT
#6 D,E,F,N, #8 GND

43+41, 24.00' LT
LED A 5(T) 4 ENB41

2" CONDUIT
#6 D,E,F,N, #8 GND

44+31, 24.00' LT
LED A 5(T) 4 FNB42

2" CONDUIT
#6 D,E,F,N, #8 GND

45+22, 24.00' LT
LED A 5(T) 4 DNB43

TLE
RW
ERW

TLE
RW

TLE

RW
ERW

40'NB'
41'NB'
42'NB'
43'NB'
44'NB'
45'NB'
46'NB'

STH 89

2" CONDUIT
#6 D,E,F,N, #8 GND

RW
TLE

RW
TLE

POET STREET

ERW

ERW

7 OF 8

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- 2" CONDUIT
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULL BOX- 24" X 42"

STATION — OFFSET
100+00.00, 100.00' RT
LED B A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	LIGHTING PLAN - LAYOUTS	SHEET 89	E

FILE NAME : M:\49XX\4930.DP.STH89.COL\CADDS\36700101\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp07
PLOT DATE : 9/28/2021 1:53 PM
PLOT BY : LAUREN MAENHOUT
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

STH 73/PARK AVE

69+00'EB'

2" CONDUIT
#6 D,E,F,N, #8 GND

2" CONDUIT
#6 D,E,F,N, #8 GND

2" CONDUIT
#6 D,E,F,N, #8 GND

2" CONDUIT
#6 D,E,F,N, #8 GND

46+17, 24.00' LT
LED A 5(T) 4 ENB44

47+08, 24.00' LT
LED A 5(T) 4 FNB45

47+90, 24.00' LT
LED A 5(T) 4 DNB46

48+46, 24.00' LT
PB1

45'NB'

46'NB'

47'NB'

STH 89

48'NB'

49'NB'

50'NB'

70+00'EB'

48+46, 24.01' RT
PB2

2" CONDUIT
#6 D,E,F,N, #8 GND

48+81, 24.00' RT
LED A 5(T) 4 ENB47

2" CONDUIT
#6 D,E,F,N, #8 GND

49+65, 24.00' RT
LED A 5(T) 4 FNB48

STH 73/PARK AVE

71+00'EB'

72+00'EB'

8 OF 8

LIGHTING PLAN LEGEND

- ⊠ — LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- – – – — 2" CONDUIT
- — LIGHT POLE, ARM MOUNTED LUMINAIRE
- ◐ — PULL BOX- 24" X 42"

STATION — OFFSET
100+00.00, 100.00' RT
LED B A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	LIGHTING PLAN - LAYOUTS	SHEET 90	E

FILE NAME : M:\49XX\4930.DP.STH89.COL\CADDS\36700101\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp08

PLOT DATE : 9/28/2021 1:53 PM PLOT BY : LAUREN MAENHOUT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

SEE SDD PAVEMENT MARKING, MAINLINE AND TURN LANES AND SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR FURTHER DETAILS

2

2

AVALON ROAD

MARKING STOP LINE
EPOXY 18-INCH, WHITE

MARKING LINE
EPOXY 4-INCH, WHITE
STA 2+93.03'NB' - STA 3+63.72'NB'

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 2+93.03'NB' - STA 19+04.60'NB'

3+00'NB' 4+00'NB' 5+00'NB' 6+00'NB' 7+00'NB' 8+00'NB'

MARKING LINE
EPOXY 4-INCH, WHITE
STA 2+93.03'NB' - STA 18+15.43'NB'

SIGN

SIGN

MARKING LINE
EPOXY 4-INCH, WHITE
STA 4+59.54'NB' - STA 18+15.43'NB'

SIGN

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 2+93.03'NB' - STA 19+04.60'NB'

9+00'NB' 10+00'NB' 11+00'NB' 12+00'NB' 13+00'NB' 14+00'NB' 15+0

MH

STH 89

MARKING LINE
EPOXY 4-INCH, WHITE
STA 2+93.03'NB' - STA 18+15.43'NB'

SIGN

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET 91	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\024501_PM.DWG
LAYOUT NAME - 024501_pm01

PLOT DATE : 6/16/2021 2:04 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

SEE SDD PAVEMENT MARKING, MAINLINE AND TURN LANES AND SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR FURTHER DETAILS

2

2

N

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 2+93.03'NB' - STA 19+04.60'NB'

MARKING CURB EPOXY
STA 18+89.87'NB' - STA 19+25.00'NB'

MARKING CROSSWALK
EPOXY TRANSVERSE LINE 6-INCH, WHITE

WEATHER SIREN

15+00'NB'

16+00'NB'

17+00'NB'

18+00'NB'

19+00'NB'

20+00'NB'

21+00'NB'

MH

SIGN

SIGN

MARKING LINE
EPOXY 4-INCH, WHITE
STA 2+93.03'NB' - STA 18+15.43'NB'

MARKING STOP LINE
EPOXY 18-INCH, WHITE

INL

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 19+10.60'NB' - STA 36+06.97'NB'

MARKING CURB EPOXY
STA 19+09.86'NB' - STA 19+25.60'NB'

WATERLOO STREET

INL

MH

N

POST

0'NB'

22+00'NB'

23+00'NB'

24+00'NB'

25+00'NB'

26+00'NB'

27+00'NB'

MH

MARKING CURB EPOXY
STA 26+79.43'NB' - STA 26+90.89'NB'

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 19+10.60'NB' - STA 36+06.97'NB'

FRONTAGE ROAD

MARKING CURB EPOXY
STA 26+09.47'NB - STA 26+29.47'NB

MH

INL

MARKING CROSSWALK
EPOXY TRANSVERSE LINE 6-INCH, WHITE

MARKING STOP LINE
EPOXY 18-INCH, WHITE

FLAG

FLAG

FLAG

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET 92	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\024501_PM.DWG
LAYOUT NAME - 024501_pm02

PLOT DATE : 6/16/2021 2:04 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

SEE SDD PAVEMENT MARKING, MAINLINE AND TURN LANES AND SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR FURTHER DETAILS

2

2

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 19+10.60'NB' - STA 36+06.97'NB'

SIGN

28+00'NB' 29+00'NB' 30+00'NB' 31+00'NB' 32+00'NB' 33+00'NB'

MH MH

FLAG

FOLSOM STREET

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 19+10.60'NB' - STA 36+06.97'NB'

MARKING CROSSWALK
EPOXY TRANSVERSE LINE 6-INCH, WHITE

MARKING CROSSWALK
EPOXY TRANSVERSE LINE 6-INCH, WHITE

MARKING CURB EPOXY
STA 35+82.94'NB' - STA 36+02.94'NB'

MARKING STOP LINE
EPOXY 18-INCH, WHITE

MARKING CURB EPOXY
STA 36+97.26'NB' - STA 37+13.00'NB'

SIGN

INL MH

34+00'NB' 35+00'NB' 36+00'NB' 37+00'NB' 38+00'NB' 39+00'NB'

MH MH MH

INL INL INL

MARKING CURB EPOXY
STA 35+91.97'NB' - STA 36+07.61'NB'

FOLSOM STREET

MARKING CURB EPOXY
STA 37+00.67'NB' - STA 37+20.67'NB'

MARKING CROSSWALK
EPOXY TRANSVERSE LINE 6-INCH, WHITE

MARKING STOP LINE
EPOXY 18-INCH, WHITE

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 36+98.00'NB' - STA 39+92.24'NB'

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET 93	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\024501_PM.DWG
LAYOUT NAME - 024501_pm03
PLOT DATE : 6/16/2021 2:04 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

2

MARKING CROSSWALK
EPOXY TRANSVERSE LINE 6-INCH, WHITE

MARKING CURB EPOXY
STA 39+69.36'NB' - STA 39+89.36'NB'

POET STREET

MARKING STOP LINE
EPOXY 18-INCH, WHITE

MARKING CURB EPOXY
STA 40+72.70'NB' - STA 40+87.92'NB'

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 40+72.91'NB' - STA 49+68.83'NB'

MARKING CURB EPOXY
STA 43+80.00'NB' - STA 49+67.45'NB'

40+00'NB'

41+00'NB'

42+00'NB'

43+00'NB'

44+00'NB'

45+00'NB'

MARKING CURB EPOXY
STA 39+69.01'NB' - STA 39+89.01'NB'

MARKING CURB EPOXY
STA 40+80.79'NB' - STA 41+00.79'NB'

MARKING CROSSWALK
EPOXY TRANSVERSE LINE 6-INCH, WHITE

MARKING STOP LINE
EPOXY 18-INCH, WHITE

POET STREET

45+00'NB'

MARKING LINE
EPOXY 4-INCH, DOUBLE YELLOW
STA 40+72.91'NB' - STA 49+68.83'NB'

MARKING CURB EPOXY
STA 43+80.00'NB' - STA 49+67.45'NB'

46+00'NB'

47+00'NB'

48+00'NB'

49+00'NB'

50+00'NB'

MARKING CURB EPOXY
STA 59+47.83'EB' -STA 70+44.58'EB'

MARKING CROSSWALK
EPOXY TRANSVERSE LINE 6-INCH, WHITE

MARKING STOP LINE
EPOXY 18-INCH, WHITE

MARKING CROSSWALK
EPOXY TRANSVERSE LINE 6-INCH, WHITE

STH 73/
PARK AVE

STH 73/
PARK AVE

SEE SDD PAVEMENT MARKING, MAINLINE AND TURN LANES AND SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR FURTHER DETAILS

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET 94	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\024501_PM.DWG
LAYOUT NAME - 024501_pm04

PLOT DATE : 6/16/2021 2:04 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########

TRAFFIC CONTROL TRAFFIC STAGING

STAGE 1
STA 33+50 - 49+75 STH 89 CLOSED TO THRU TRAFFIC
STA 42+50 - 43+25 STH 89 CLOSED TO ALL TRAFFIC (2ND WARD CREEK)
POET ST CLOSED TO THRU TRAFFIC
FOLSOM ST CLOSED TO THRU TRAFFIC
PEDESTRIANS ON DETOUR ROUTE (POET ST, WATERLOO ST, SCHOOL ST)
STH 89 TRAFFIC DETOURED (STH 73 & STH 19)

WORK TO BE COMPLETED:
CLEARING AND GRUBBING, SANITARY SEWER, WATER, STORM SEWER, M-11-0010, CULVERT REPLACEMENT, SAWING, PAVEMENT REMOVAL, COMMON EXCAVATION, SIDEWALK REMOVAL, CURB AND GUTTER, CONCRETE SIDEWALK, DRIVEWAYS, HMA PAVEMENT LOWER LAYER, RESTORATION, PERMANENT SIGNS,

STAGE 2
STA 2+75 - STA 50+00 STH 89 CLOSED TO THRU TRAFFIC
AVALON, WATERLOO, FOLSOM, & POET CLOSED TO THRU TRAFFIC
PEDESTRIANS ON LEFT WALKWAY (WEST)
STH 89 TRAFFIC DETOURED (STH 73 & STH 19)

WORK TO BE COMPLETED:
CLEARING AND GRUBBING, SANITARY SEWER, WATER, STORM SEWER, CULVERT REPLACEMENT, SAWING, PAVEMENT REMOVAL, COMMON EXCAVATION, SIDEWALK REMOVAL, CURB AND GUTTER, CONCRETE SIDEWALK, DRIVEWAYS, HMA PAVEMENT LOWER LAYER & UPPER LAYER, RESTORATION, PERMANENT SIGNS, PAVEMENT MARKING

STAGE 3
STA 2+75 - STA 50+00 STH 89 CLOSED TO THRU TRAFFIC
STH 73 CLOSED TO ALL TRAFFIC (TWO WEEKS)
AVALON, WATERLOO, FOLSOM, & POET CLOSED TO THRU TRAFFIC
STH 89 TRAFFIC DETOURED (STH 73 & STH 19)
STH 73 TRAFFIC DETOURED (USH 151 & STH 16/60)

WORK TO BE COMPLETED:
SAWING, PAVEMENT REMOVAL, COMMON EXCAVATION, SANITARY SEWER, STORM SEWER, CURB AND GUTTER, CONCRETE SIDEWALK, CONCRETE PAVEMENT, HMA PAVEMENT, PAVEMENT MARKING, PERMANENT SIGNS, RESTORATION

TRAFFIC CONTROL PEDESTRIAN STAGING

STAGE 1A PED
STA 33+50 - STA 49+75 PEDESTRIANS PLACED ON LEFT SIDEWALK (WEST).
DURING THE CULVERT REPLACEMENT AT 2ND WARD CREEK AND CONSTRUCTION OF STRUCTURE M-11-0010 THE PEDESTRIANS WILL BE DETOURED ON POET STREET, WATERLOO STREET, SCHOOL STREET, AND STH 73.

STAGE 1B PED
STA 33+50 - STA 49+75 PEDESTRIANS PLACED ON RIGHT SIDEWALK (EAST).

STAGE 2A PED
STA 2+75 - STA33+50 PEDESTRIANS PLACED ON THE LEFT SIDEWALK (WEST).

STAGE 2B PED
STA 2+75 - STA 19+25 PEDESTRIANS REMAIN ON LEFT SIDEWALK (WEST). AND TEMP SURFACE CROSS THE PEDESTRIANS AT WATERLOO STREET
STA 19+25 -STA 33+50 PEDESTRIANS UTILIZE THE NEW SIDEWALK ON THE RIGHT SIDE (EAST).

STAGE 3A PED
SE QUAD OF STH 73 & STH 89 INTERSECTION CLOSED.
STH 73 PEDESTRIANS UTILIZE LEFT SIDEWALK (NORTH)
STH 89 PEDESTRIANS UTILIZE LEFT SIDEWALK (WEST)

STAGE 3B PED
SW QUAD OF STH 73 & STH 89 INTERSECTION CLOSED.
STH 73 PEDESTRIANS UTILIZE LEFT SIDEWALK (NORTH)
STH 89 PEDESTRIANS UTILIZE RIGHT SIDEWALK (EAST)

STAGE 3C PED
STH 73 LEFT SIDEWALK CLOSED (NORTH)
STH 73 PEDESTRIANS UTILIZE RIGHT SIDEWALK (SOUTH) AND UTILIZE TEMP CROSSING ON STH 89

2

AVALON ROAD

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

STH 89

3+00'NB' 4+00'NB' 5+00'NB' 6+00'NB' 7+00'NB' 8+00'NB'

ROAD CLOSED
4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60"X30"
INSTALL AT INTERSECTION
CTH V & STH 89

ROAD CLOSED
1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60"X30"
INSTALL AT INTERSECTION
FOX ROAD & STH 89

ROAD CLOSED
1/2 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60"X30"

SIGN

SIGN

SIGN

9+00'NB' 10+00'NB' 11+00'NB' 12+00'NB' 13+00'NB' 14+00'NB' 15+

MH

STH 89

SIGN

2

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET 96	E

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

2

2

WEATHER SIREN

15+00'NB'

16+00'NB'

17+00'NB'

18+00'NB'

19+00'NB'

20+00'NB'

21+00'NB'

MH

/ SIGN

/ SIGN

ROAD WORK AHEAD
W20-1A

WATERLOO STREET

INL

ROAD CLOSED 1000 FT
W20-3C

N

22+00'NB'

23+00'NB'

24+00'NB'

25+00'NB'

26+00'NB'

27+00'NB'

POST

MH

MH

FRONTAGE ROAD

INL

ROAD CLOSED 500 FT
W20-3D

FLAG

FLAG

FLAG

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET 97	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025001_TC.DWG
LAYOUT NAME - 024501_tc02

PLOT DATE : 7/27/2021 11:08 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

N

SIGN

28+00'NB' 29+00'NB' 30+00'NB' 31+00'NB' 32+00'NB' 33+00'NB'

MH MH

FLAG

ROAD CLOSED AHEAD W20-3A

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

TYPE III BARRICADE

TYPE III BARRICADE

TYPE III BARRICADE

FOLSOM STREET

FOLSOM STREET

34+00'NB' 35+00'NB' 36+00'NB' 37+00'NB' 38+00'NB' 39+00'NB'

MH MH MH MH

INL INL INL INL

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

TYPE III BARRICADE

TYPE III BARRICADE

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

TYPE III BARRICADE

ROAD CLOSED 500 FT W20-3D

ROAD CLOSED AHEAD W20-3A

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET 98	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025001_TC.DWG
LAYOUT NAME - 024501_tc03
PLOT DATE : 7/27/2021 11:08 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

ROAD CLOSED AHEAD
W20-3A

POET STREET

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

TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED

40+00'NB'
41+00'NB'
42+00'NB'
43+00'NB'
44+00'NB'
45+00'NB'

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED AHEAD
W20-3A

BARRICADES ONLY NEEDED FOR
CULVERT REPLACEMENT AT 2ND WARD CREEK

45+00'NB'
46+00'NB'
47+00'NB'
48+00'NB'
49+00'NB'
50+00'NB'

STH 73/
PARK AVE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET 99	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025001_TC.DWG
LAYOUT NAME - 024501_tc04
PLOT DATE : 7/27/2021 11:08 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

STH 73/PARK AVE

STH 73/PARK AVE

END ROAD WORK
G20-2A
48"X24"

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

END DETOUR SOUTH 89 M4-8A M3-3 M1-6

ROAD CLOSED 500 FT W20-3D

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED AHEAD W20-3A

SOUTH 89 M3-3 M1-6

DETOUR AHEAD W20-2A

ROAD CLOSED 500 FT W20-3D

DETOUR SOUTH 89 M3-3 M1-6 MO6-1

TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET 100	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025001_TC.DWG
LAYOUT NAME - 024501_tc05

PLOT DATE : 7/27/2021 11:08 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

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

TYPE III BARRICADE

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED AHEAD
W20-3A

R11-3
60" X 30"
ROAD CLOSED 1/2 MILES AHEAD LOCAL TRAFFIC ONLY
TYPE III BARRICADE
INSTALL AT INTERSECTION OF FOX RD & STH 89

R11-3
60" X 30"
ROAD CLOSED 4 MILES AHEAD LOCAL TRAFFIC ONLY
TYPE III BARRICADE
INSTALL AT INTERSECTION OF CTH V & STH 89

END ROAD WORK
G20-2A
48"X24"

STH 89
STH 89
DRIVING R.
FOOTBRIDGE
GOLF GREEN
GOLF COURSE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET 101	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025002_TC.DWG
LAYOUT NAME - 024502_tc01
PLOT DATE : 7/27/2021 11:10 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 500 FT
W20-3D

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

TYPE III BARRICADE

AVALON ROAD

STH 89

3+00'NB'
4+00'NB'
5+00'NB'
6+00'NB'
7+00'NB'
8+00'NB'

SIGN

9+00'NB'
10+00'NB'
11+00'NB'
12+00'NB'
13+00'NB'
14+00'NB'
15+

MH

STH 89

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET 102	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025002_TC.DWG
LAYOUT NAME - 024502_tc02

PLOT DATE : 7/27/2021 11:10 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

WEATHER SIREN

15+00'NB'

16+00'NB'

17+00'NB'

18+00'NB'

19+00'NB'

20+00'NB'

21+00'NB'

MH

SIGN

SIGN

INL

WATERLOO STREET

TYPE III BARRICADE

ROAD CLOSED 500 FT

W20-3D

ROAD CLOSED AHEAD

W20-3A

R11-4
60" X 30"

ROAD CLOSED TO THRU TRAFFIC

TYPE III BARRICADE

N

POST

22+00'NB'

23+00'NB'

24+00'NB'

25+00'NB'

26+00'NB'

27+00'NB'

MH

MH

INL

FRONTAGE ROAD

FLAG

FLAG

FLAG

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET 103	E

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

N

I SIGN

28+00'NB' 29+00'NB' 30+00'NB' 31+00'NB' 32+00'NB' 33+00'NB'

MH MH

FLAG

TYPE III BARRICADE

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

TYPE III BARRICADE

ROAD CLOSED AHEAD
W20-3A

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

TYPE III BARRICADE

FOLSOM STREET

TYPE III BARRICADE

SIGN

INL MH

34+00'NB' 35+00'NB' 36+00'NB' 37+00'NB' 38+00'NB' 39+00'NB'

MH MH

MH INL

INL INL

TYPE III BARRICADE

FOLSOM STREET

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

TYPE III BARRICADE

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED AHEAD
W20-3A

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET 104	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025002_TC.DWG
LAYOUT NAME - 024502_tc04

PLOT DATE : 7/27/2021 11:10 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

2

2

ROAD CLOSED AHEAD
W20-3A

POET STREET

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

TYPE III BARRICADE

SIGN

INL
MH

40+00'NB'
41+00'NB'
42+00'NB'
43+00'NB'
44+00'NB'
45+00'NB'

N

TYPE III BARRICADE

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED AHEAD
W20-3A

45+00'NB'
46+00'NB'
47+00'NB'
48+00'NB'
49+00'NB'
50+00'NB'

FLAG POLE

STH 73/ PARK AVE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET 105 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025002_TC.DWG
LAYOUT NAME - 024502_tc05

PLOT DATE : 7/27/2021 11:10 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

STH 73/PARK AVE

STH 73/PARK AVE

END ROAD WORK
G20-2A
48"X24"

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

END DETOUR
SOUTH
89
M4-8A
M3-3
MI-6

ROAD CLOSED 500 FT W20-3D

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED AHEAD W20-3A

49+00 NB

50+00 NB

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED 1000 FT W20-3C

SOUTH
89
M3-3
MI-6
DETOUR AHEAD W20-2A

ROAD CLOSED 500 FT W20-3D

DETOUR
SOUTH
89
M3-3
MI-6
MO6-1

TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET 106	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025002_TC.DWG
LAYOUT NAME - 024502_tc06

PLOT DATE : 7/27/2021 11:10 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

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

60'±

TYPE III BARRICADE

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED AHEAD
W20-3A

R11-3
60" X 30"
ROAD CLOSED 1/2 MILES AHEAD LOCAL TRAFFIC ONLY
TYPE III BARRICADE
INSTALL AT INTERSECTION OF FOX RD & STH 89

R11-3
60" X 30"
ROAD CLOSED 3 1/2 MILES AHEAD LOCAL TRAFFIC ONLY
TYPE III BARRICADE
INSTALL AT INTERSECTION OF CTH V & STH 89

STH 89

END ROAD WORK
G20-2A
48"X24"

STH 89
DRIVING RANGE
FOOTBRIDGE
GOLF GREEN
GOLF COURSE

N

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 3	SHEET 107	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025003_TC.DWG
LAYOUT NAME - 024503_tc01

PLOT DATE : 7/27/2021 11:13 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 500 FT
W20-3D

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

TYPE III BARRICADE

AVALON ROAD

STH 89

3+00'NB'
4+00'NB'
5+00'NB'
6+00'NB'
7+00'NB'
8+00'NB'

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

SIGN
SIGN
SIGN
SIGN
SIGN

9+00'NB'
10+00'NB'
11+00'NB'
12+00'NB'
13+00'NB'
14+00'NB'
15+

MH

STH 89

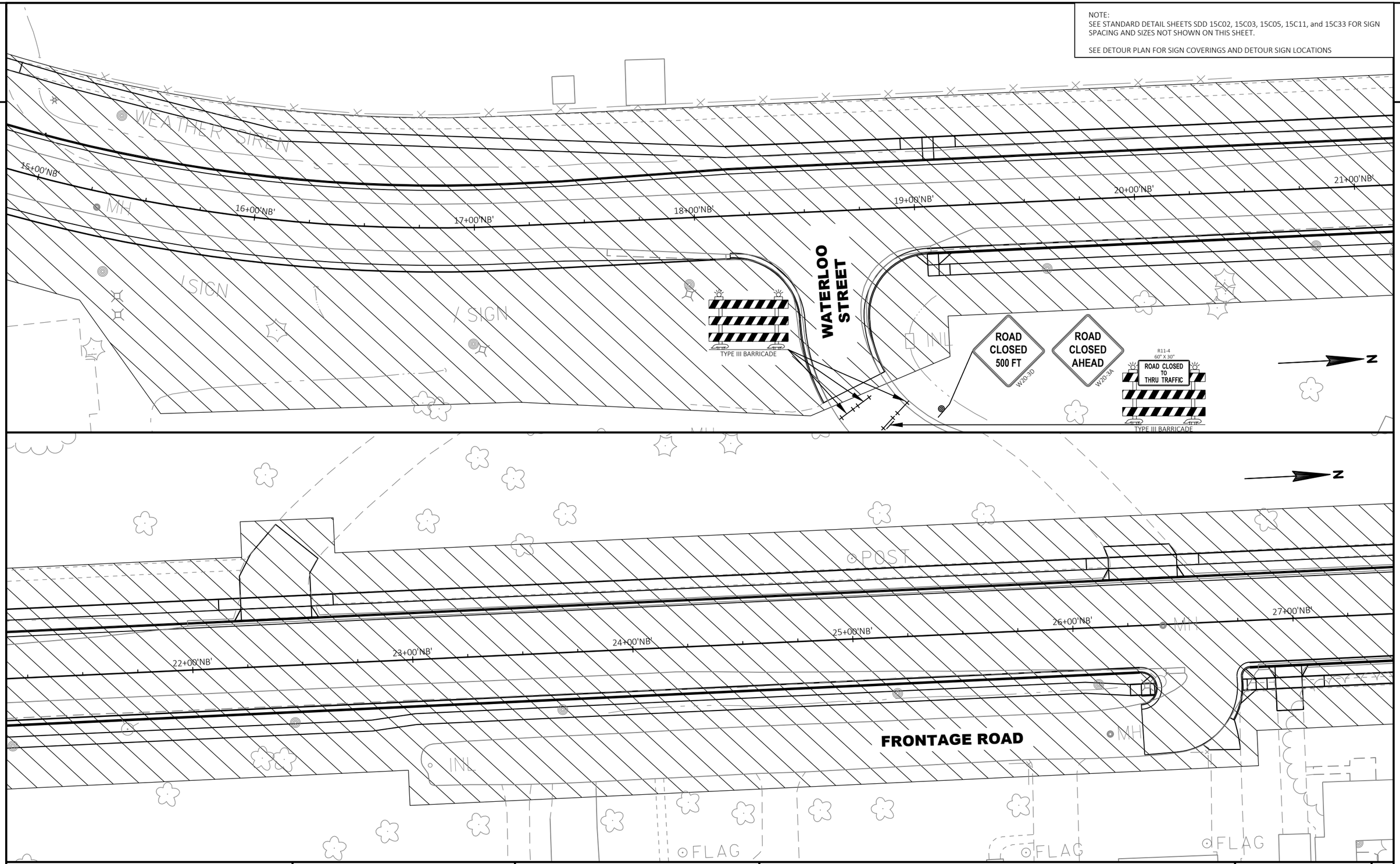
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 3	SHEET 108	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025003_TC.DWG
LAYOUT NAME - 024503_tc02

PLOT DATE : 7/27/2021 11:13 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 3	SHEET 109	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025003_TC.DWG
LAYOUT NAME - 024503_tc03
PLOT DATE : 7/27/2021 11:13 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

N

I SIGN

28+00'NB' 29+00'NB' 30+00'NB' 31+00'NB' 32+00'NB' 33+00'NB'

MH MH

FLAG

TYPE III BARRICADE

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

TYPE III BARRICADE

ROAD CLOSED AHEAD
W20-3A

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

TYPE III BARRICADE

FOLSOM STREET

TYPE III BARRICADE

SIGN

INL MH

34+00'NB' 35+00'NB' 36+00'NB' 37+00'NB' 38+00'NB' 39+00'NB'

MH MH

MH INL

INL INL

TYPE III BARRICADE

FOLSOM STREET

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

TYPE III BARRICADE

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED AHEAD
W20-3A

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 3	SHEET 110	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025003_TC.DWG
LAYOUT NAME - 024503_tc04
PLOT DATE : 7/27/2021 11:13 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

SEE DETOUR PLAN FOR SIGN COVERINGS AND DETOUR SIGN LOCATIONS

2

2

ROAD CLOSED AHEAD
W20-3A

POET STREET

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

TYPE III BARRICADE

SIGN

INL
MH

40+00'NB'
41+00'NB'
42+00'NB'
43+00'NB'
44+00'NB'
45+00'NB'

N

INL
MH

TYPE III BARRICADE

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

POET STREET

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED AHEAD
W20-3A

45+00'NB'

N

W

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

STH 73/ PARK AVE

INL
MH

46+00'NB'
47+00'NB'
48+00'NB'
49+00'NB'
50+00'NB'

FLAG POLE
SIGN

TYPE III BARRICADE

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

STH 73/ PARK AVE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 3	SHEET 111	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025003_TC.DWG
LAYOUT NAME - 024503_tc05

PLOT DATE : 7/27/2021 11:13 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

TEMPORARY PEDESTRIAN CURB RAMP

SIGN

28+00'NB' 29+00'NB' 30+00'NB' 31+00'NB' 32+00'NB' 33+00'NB'

MH MH

FLAG

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X30"

LEGEND
TEMPORARY PEDESTRIAN BARRICADE
TEMPORARY PEDESTRIAN SURFACE

TEMPORARY PEDESTRIAN CURB RAMP

SIDEWALK CLOSED
R9-9
24"X12"

TEMPORARY PEDESTRIAN CURB RAMP

SIGN

FOLSOM STREET

34+00'NB' 35+00'NB' 36+00'NB' 37+00'NB' 38+00'NB' 39+00'NB'

MH MH MH

INL

FOLSOM STREET

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

TEMPORARY PEDESTRIAN BARRICADE
6' TYPICAL

TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 1A PED	SHEET 112	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025004_TC.DWG
LAYOUT NAME - 025004_tc01

PLOT DATE : 7/28/2021 12:27 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

TEMPORARY PEDESTRIAN CURB RAMP

SIDEWALK CLOSED
R9-9
24"X12"

POET STREET

40+00'NB'

41+00'NB'

42+00'NB'

43+00'NB'

44+00'NB'

45+00'NB'

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN CURB RAMP

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN CURB RAMP

POET STREET

N

45+00'NB'

46+00'NB'

47+00'NB'

48+00'NB'

49+00'NB'

50+00'NB'

STH 73/
PARK AVE

STH 73/
PARK AVE

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

LEGEND

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN SURFACE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 1A PED	SHEET 113	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025004_TC.DWG
LAYOUT NAME - 025004_tc02

PLOT DATE : 7/28/2021 12:27 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X30"

TEMPORARY PEDESTRIAN CURB RAMP

SIGN

28+00'NB' 29+00'NB' 30+00'NB' 31+00'NB' 32+00'NB' 33+00'NB'

MH MH

FLAG

IN

LEGEND
TEMPORARY PEDESTRIAN BARRICADE
TEMPORARY PEDESTRIAN SURFACE

N

TEMPORARY PEDESTRIAN CURB RAMP

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

R/W

SIGN

FOLSOM STREET

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN WEDGE

34+00'NB' 35+00'NB' 36+00'NB' 37+00'NB' 38+00'NB' 39+00'NB'

MH MH MH

INL INL INL

SIDEWALK CLOSED
R9-9
24"X12"

R/W

TEMPORARY PEDESTRIAN WEDGE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 1B PED	SHEET 114	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025005_TC.DWG
LAYOUT NAME - 025005_tc01
PLOT DATE : 7/28/2021 1:05 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED USE OTHER SIDE
R9-10
48"X24"

POET STREET

TEMPORARY PEDESTRIAN WEDGE

TEMPORARY PEDESTRIAN WEDGE

TEMPORARY PEDESTRIAN WEDGE

TEMPORARY PEDESTRIAN WEDGE

R/W

45+00'NB'

41+00'NB'

42+00'NB'

43+00'NB'

44+00'NB'

45+00'NB'

SIGN

MH

INL

ANT

W

N

46+00'NB'

47+00'NB'

48+00'NB'

49+00'NB'

50+00'NB'

FLAG

STH 73/
PARK AVE

LEGEND

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN SURFACE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 1B PED	SHEET 115	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025005_TC.DWG
LAYOUT NAME - 025005_tc02

PLOT DATE : 7/28/2021 1:05 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

LEGEND

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN SURFACE

N

AVALON ROAD

STH 89

3+00'NB'

4+00'NB'

5+00'NB'

6+00'NB'

7+00'NB'

8+00'NB'

SIGN

SIGN

SIGN

SIGN

9+00'NB'

10+00'NB'

11+00'NB'

12+00'NB'

13+00'NB'

14+00'NB'

15+

MH

STH 89

N

SIGN

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 2A PED	SHEET 116	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025006_TC.DWG
LAYOUT NAME - 024506_tc01

PLOT DATE : 7/28/2021 1:30 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN SURFACE

WEATHER SIREN

15+00'NB'

16+00'NB'

17+00'NB'

18+00'NB'

19+00'NB'

20+00'NB'

21+00'NB'

MH

SIGN

SIGN

WATERLOO STREET

INL

N

22+00'NB'

23+00'NB'

24+00'NB'

25+00'NB'

26+00'NB'

27+00'NB'

POST

MH

MH

INL

FRONTAGE ROAD

SIDEWALK CLOSED
R9-9
24"X12"

FLAG

FLAG

FLAG

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 2A PED	SHEET 117	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025006_TC.DWG
LAYOUT NAME - 024506_tc02

PLOT DATE : 7/28/2021 1:30 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN SURFACE

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN WEDGE

SIDEWALK CLOSED CROSS HERE
R9-11A
48"X24"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
48"X30"

SIDEWALK CLOSED
R9-9
24"X12"

FOLSOM STREET

28+00'NB' 29+00'NB' 30+00'NB' 31+00'NB' 32+00'NB' 33+00'NB'

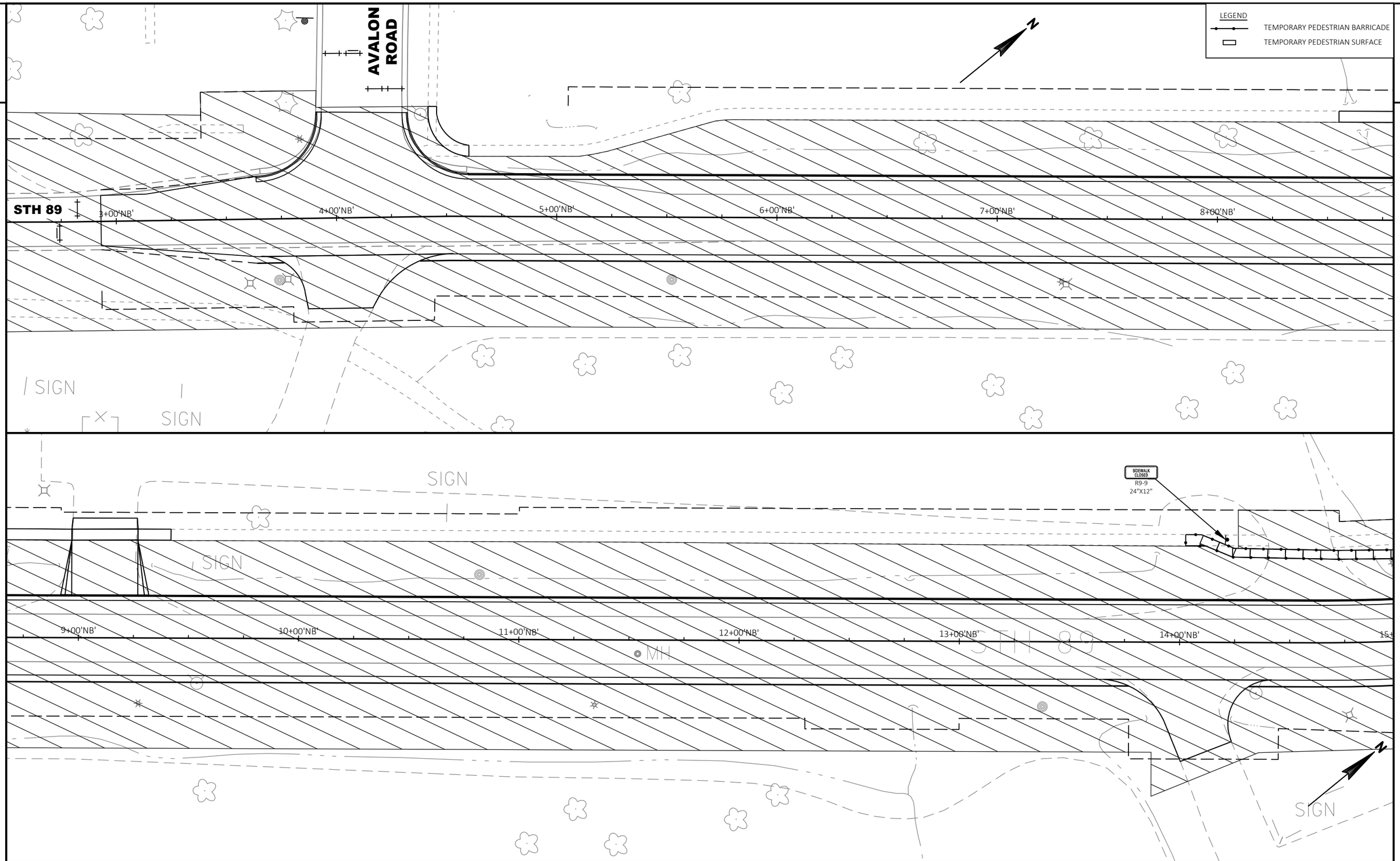
34+00'NB' 35+00'NB' 36+00'NB' 37+00'NB' 38+00'NB' 39+00'NB'

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 2A PED	SHEET 118 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025006_TC.DWG
LAYOUT NAME - 024506_tc03

PLOT DATE : 7/28/2021 1:30 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 2B PED	SHEET 119	E

2

LEGEND

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN SURFACE

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

TEMPORARY PEDESTRIAN WEDGE

WEATHERVANE

15+00'NB'

16+00'NB'

17+00'NB'

18+00'NB'

19+00'NB'

20+00'NB'

21+00'NB'

MH

SIGN

SIGN

WATERLOO STREET

INL

N

SIDEWALK CLOSED
R9-9
24"X12"

22+00'NB'

23+00'NB'

24+00'NB'

25+00'NB'

26+00'NB'

27+00'NB'

POST

MH

FRONTAGE ROAD

INL

FLAG

FLAG

FLAG

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 2B PED	SHEET 120	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025007_TC.DWG
LAYOUT NAME - 024507_tc02

PLOT DATE : 7/28/2021 1:58 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN SURFACE

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

TEMPORARY PEDESTRIAN CURB RAMP

28+00'NB' 29+00'NB' 30+00'NB' 31+00'NB' 32+00'NB' 33+00'NB'

SIGN MH MH FLAG IN

N

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X30"

SIGN W

FOLSOM STREET

TEMPORARY PEDESTRIAN WEDGE

INL MH

34+00'NB' 35+00'NB' 36+00'NB' 37+00'NB' 38+00'NB' 39+00'NB'

MH MH MH INL INL INL

FOLSOM STREET

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 2B PED	SHEET 121	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025007_TC.DWG
LAYOUT NAME - 024507_tc03

PLOT DATE : 7/28/2021 1:58 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

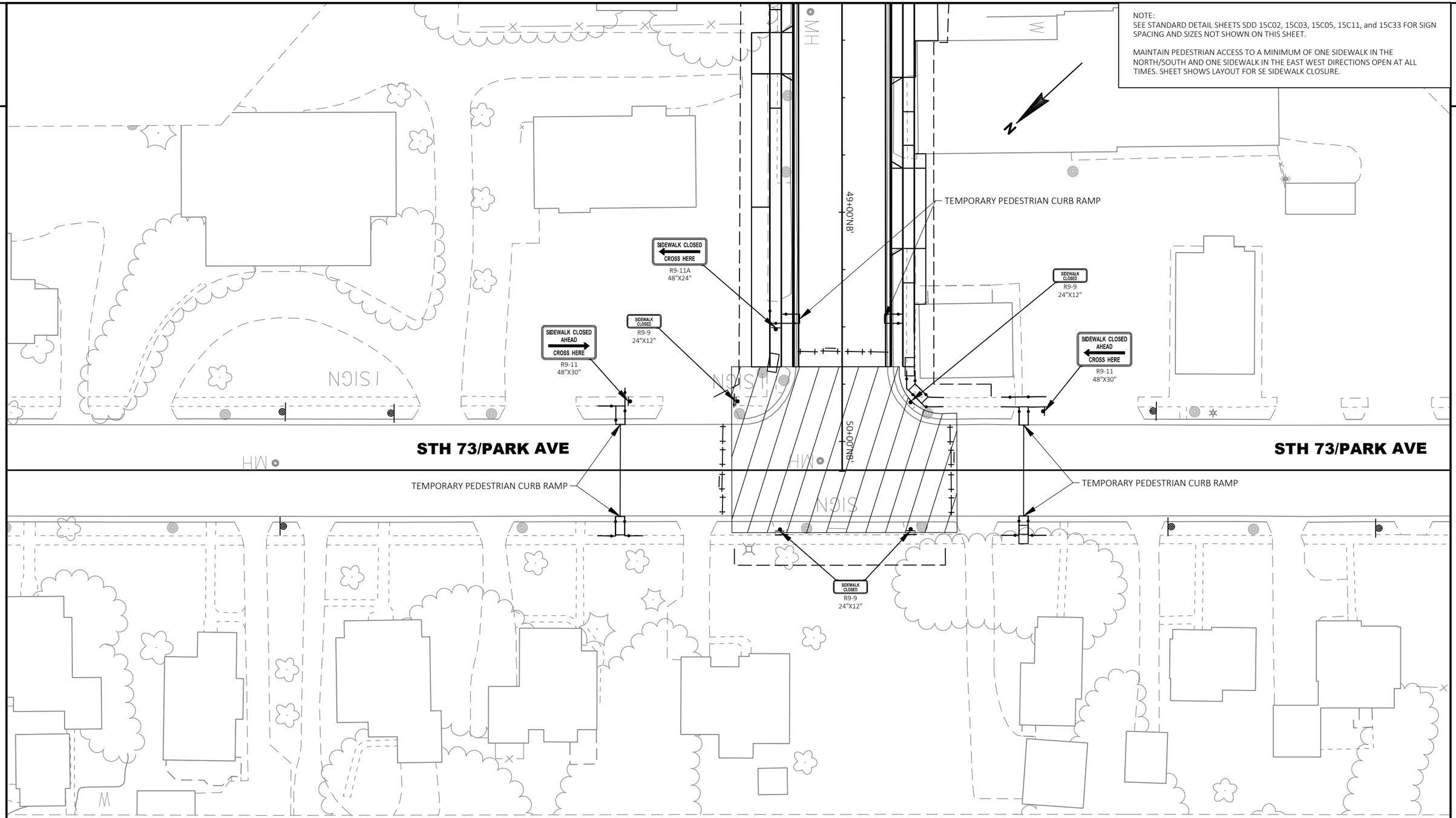
WISDOT/CADDS SHEET 44

2

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

MAINTAIN PEDESTRIAN ACCESS TO A MINIMUM OF ONE SIDEWALK IN THE NORTH/SOUTH AND ONE SIDEWALK IN THE EAST WEST DIRECTIONS OPEN AT ALL TIMES. SHEET SHOWS LAYOUT FOR SE SIDEWALK CLOSURE.

2



LEGEND

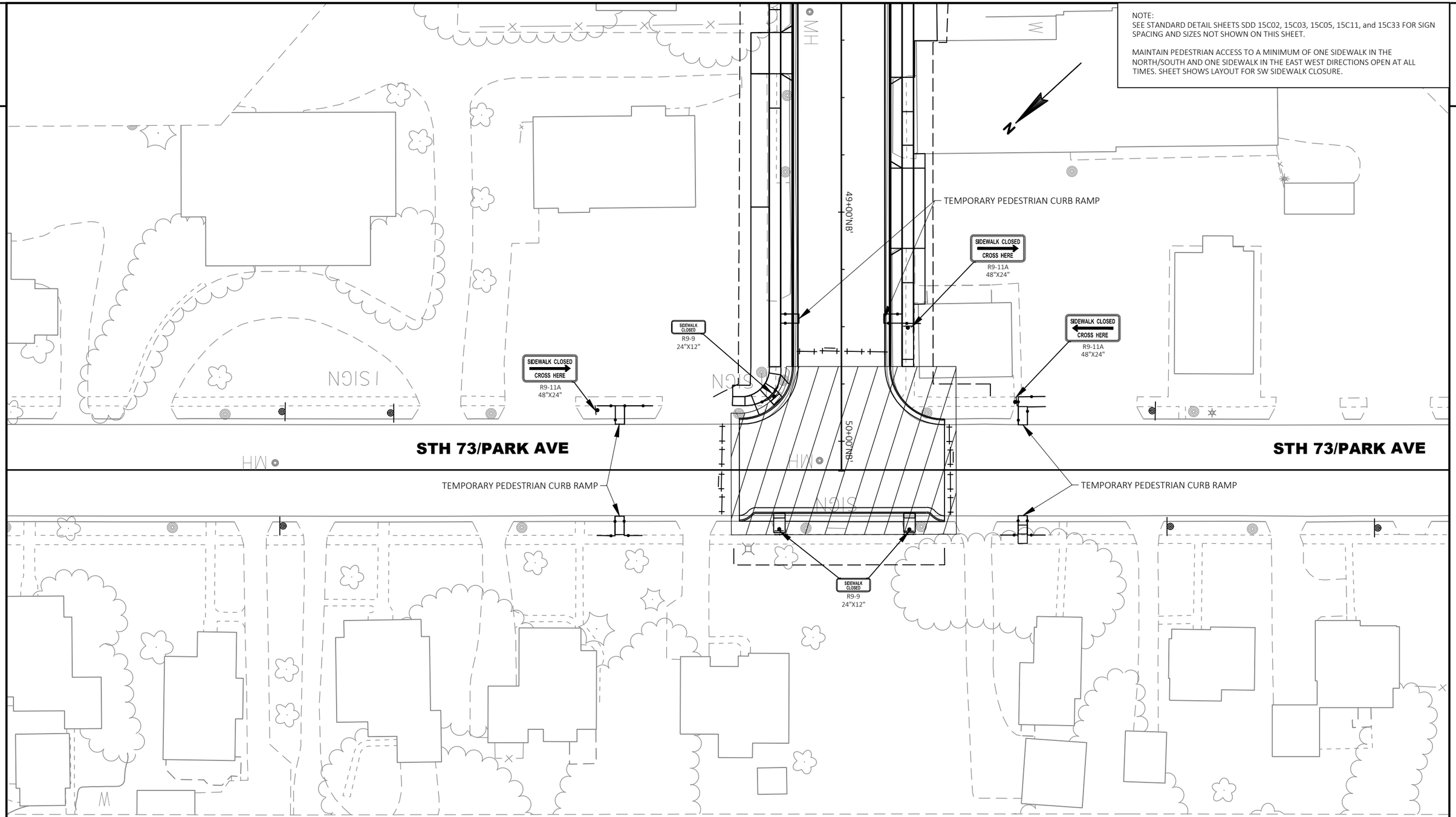
TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN SURFACE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 3A PED	SHEET 122	E

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

MAINTAIN PEDESTRIAN ACCESS TO A MINIMUM OF ONE SIDEWALK IN THE NORTH/SOUTH AND ONE SIDEWALK IN THE EAST WEST DIRECTIONS OPEN AT ALL TIMES. SHEET SHOWS LAYOUT FOR SW SIDEWALK CLOSURE.



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 3B PED	SHEET 123	E

NOTE:
SEE STANDARD DETAIL SHEETS SDD 15C02, 15C03, 15C05, 15C11, and 15C33 FOR SIGN SPACING AND SIZES NOT SHOWN ON THIS SHEET.

MAINTAIN PEDESTRIAN ACCESS TO A MINIMUM OF ONE SIDEWALK IN THE NORTH/SOUTH AND ONE SIDEWALK IN THE EAST WEST DIRECTIONS OPEN AT ALL TIMES. SHEET SHOWS LAYOUT FOR SW SIDEWALK CLOSURE.

STH 73/PARK AVE

STH 73/PARK AVE

49+00 NB

50+00 NB

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN CURB RAMP

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
CROSS HERE
R9-11A
48"X24"

SIDEWALK CLOSED
R9-9
24"X12"

LEGEND
TEMPORARY PEDESTRIAN BARRICADE
TEMPORARY PEDESTRIAN SURFACE

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIANS - STAGE 3C PED	SHEET 124 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\025010_TC.DWG
LAYOUT NAME - 024510_tc01

PLOT DATE : 7/28/2021 2:44 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND
STH 89 DETOUR ROUTE STAGE 1, 2, & 3
STH 73 DETOUR ROUTE STAGE 3

PROJECT LOCATION

DETOUR ROUTE

DETOUR ROUTE

DETOUR ROUTE

DETOUR ROUTE

N

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL DETOUR OVERVIEW	SHEET 125	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\027004_DT.DWG
LAYOUT NAME - 027001_dt01

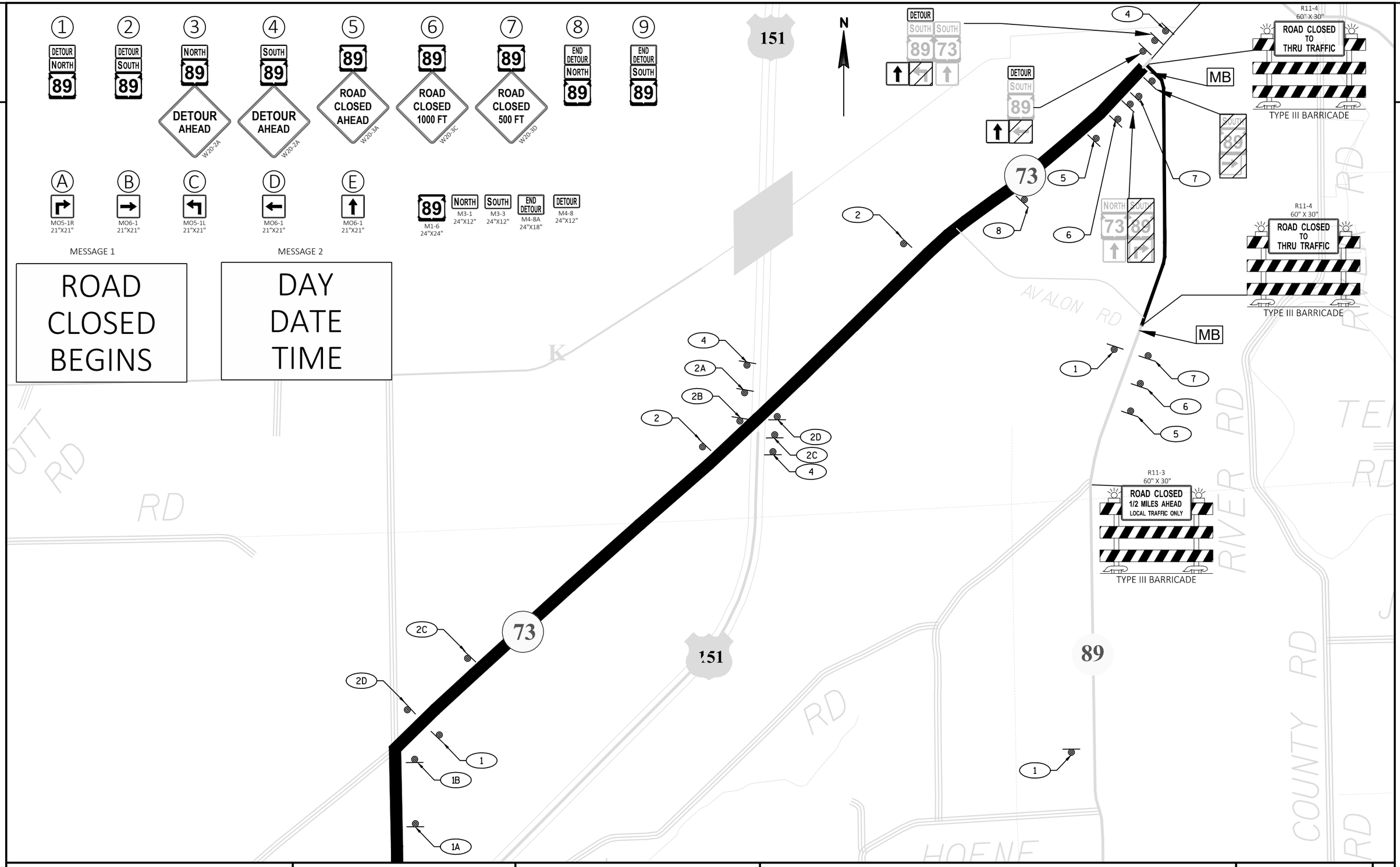
PLOT DATE : 6/16/2021 8:01 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:1 MI

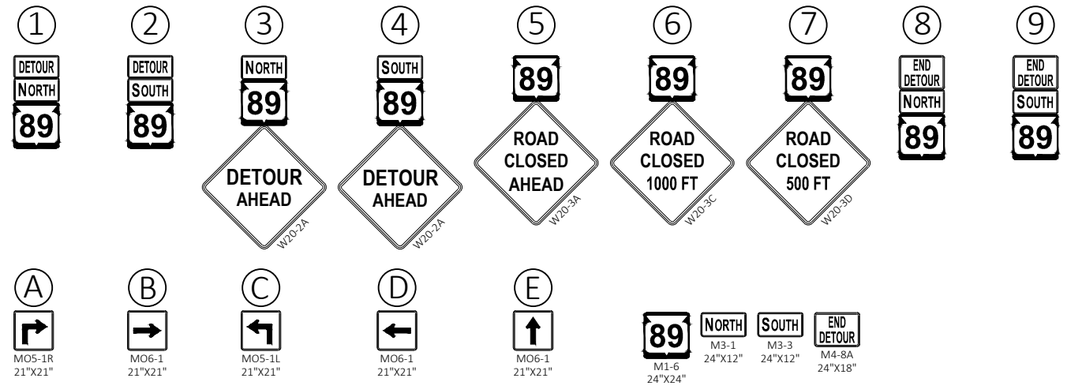
MESSAGE 1

ROAD CLOSED BEGINS

MESSAGE 2

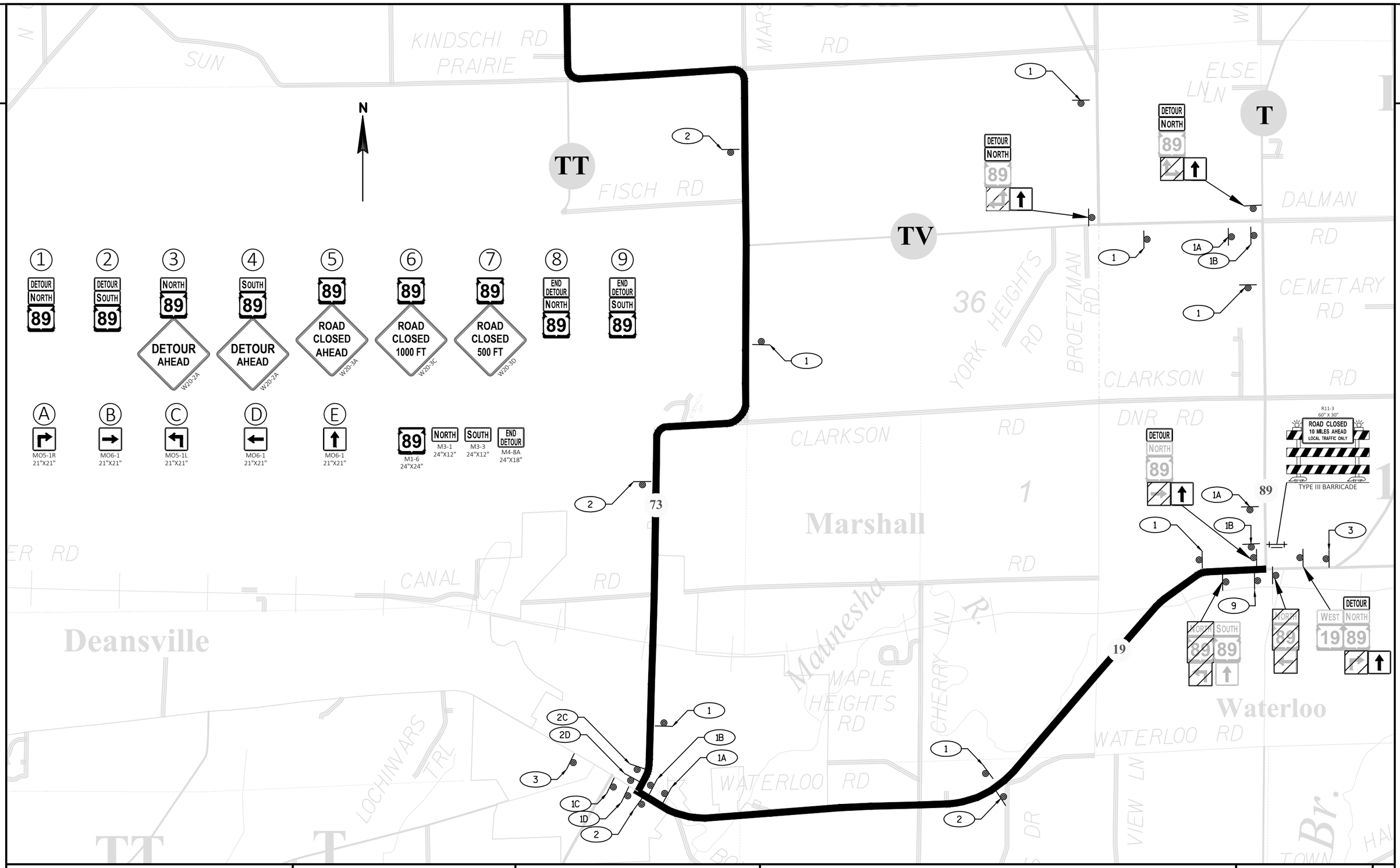
DAY DATE TIME





PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL DETOUR STH 89 - STAGE 1 & 2	SHEET 127	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\027001_DT.DWG
LAYOUT NAME - 027001_dt03
PLOT DATE : 6/16/2021 9:55 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : Custom
WISDOT/CADDS SHEET 42



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL DETOUR STH 89 - STAGE 1 & 2	SHEET 128	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\027001_DT.DWG
LAYOUT NAME - 027001_dt04

PLOT DATE : 6/16/2021 9:55 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDS SHEET 42

2

NOTES
STH 89 STAGE 2 DETOUR SIGNS WILL NEED TO REMAIN IN PLACE FOR STAGE 3

① DETOUR NORTH 89
② DETOUR SOUTH 89
③ NORTH 89 DETOUR AHEAD W20-2A
④ SOUTH 89 DETOUR AHEAD W20-2A
⑤ ROAD CLOSED AHEAD W20-3A
⑥ ROAD CLOSED 1000 FT W20-3C
⑦ ROAD CLOSED 500 FT W20-3D
⑧ END DETOUR NORTH 89
⑨ END DETOUR SOUTH 89

Ⓐ MO5-1R 21"X21"
Ⓑ MO6-1 21"X21"
Ⓒ MO5-1L 21"X21"
Ⓓ MO6-1 21"X21"
Ⓔ MO6-1 21"X21"
Ⓕ MO6-2 21"X21"
Ⓖ MO6-2 21"X21"

⑪ DETOUR NORTH 73
⑫ DETOUR SOUTH 73
⑬ NORTH 73 DETOUR AHEAD W20-2A
⑭ SOUTH 73 DETOUR AHEAD W20-2A
⑮ END DETOUR NORTH 73
⑯ END DETOUR SOUTH 73
⑰ H D9-2 24"X24"

NOTES
* USE THESE SIGN SIZES ON STH 89 AND STH 73

89	73	END DETOUR	NORTH	SOUTH	DETOUR
M1-6 24"X24"	M1-6 24"X24"	M4-8A 24"X18"	M3-1 24"X12"	M3-3 24"X12"	M4-8 24"X12"

NOTES
* USE THESE SIGN SIZES ON USH 151

89	73	END DETOUR	NORTH	SOUTH	DETOUR	
M1-6 36"X36"	M1-6 36"X36"	M4-8A 36"X18"	M3-1 36"X18"	M3-3 36"X18"	M4-8 36"X18"	MO6-1 30"X30"

MESSAGE 1

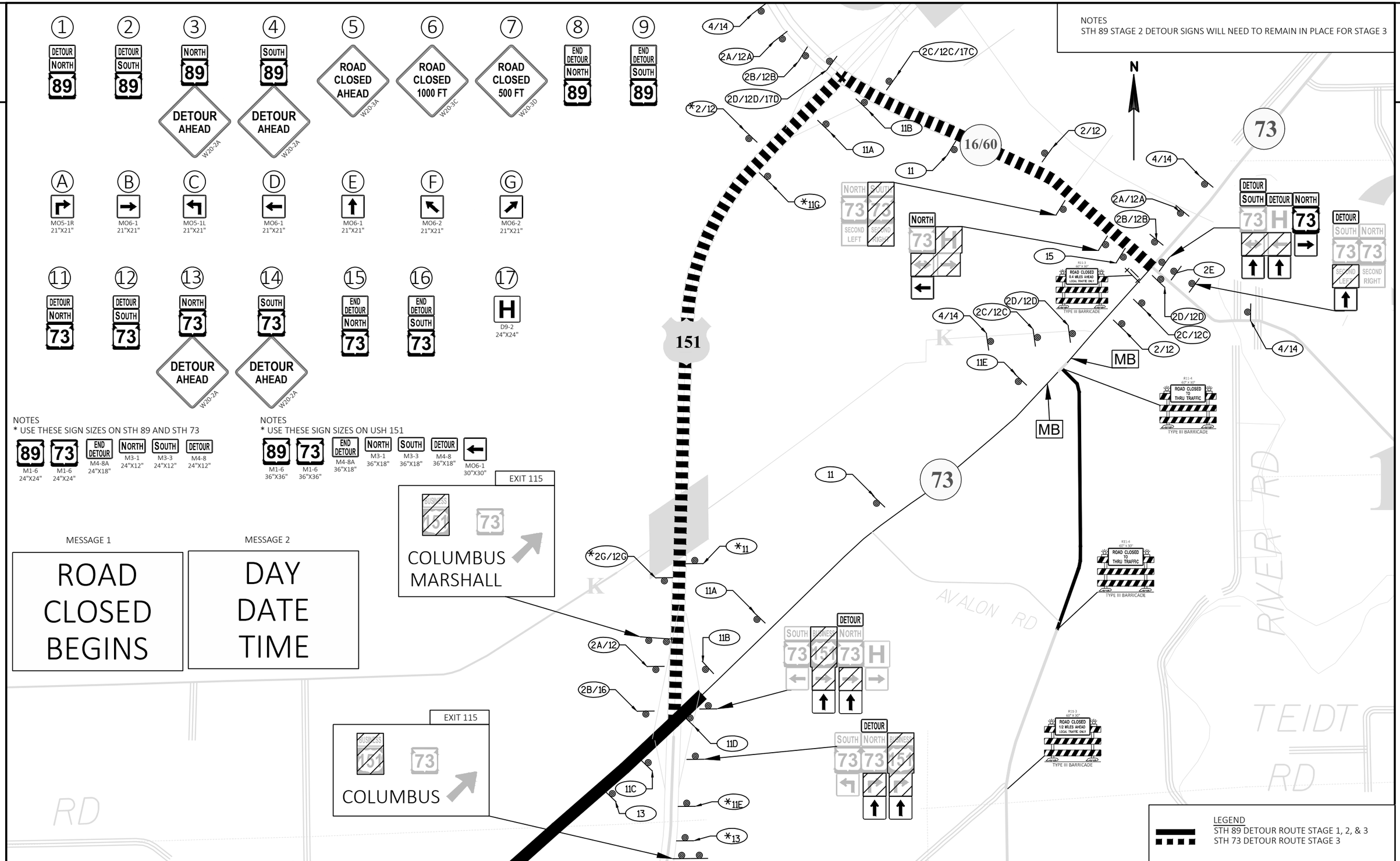
ROAD CLOSED BEGINS

MESSAGE 2

DAY
DATE
TIME

EXIT 115
BUSINESS 151 73
COLUMBUS
MARSHALL

EXIT 115
BUSINESS 151 73
COLUMBUS

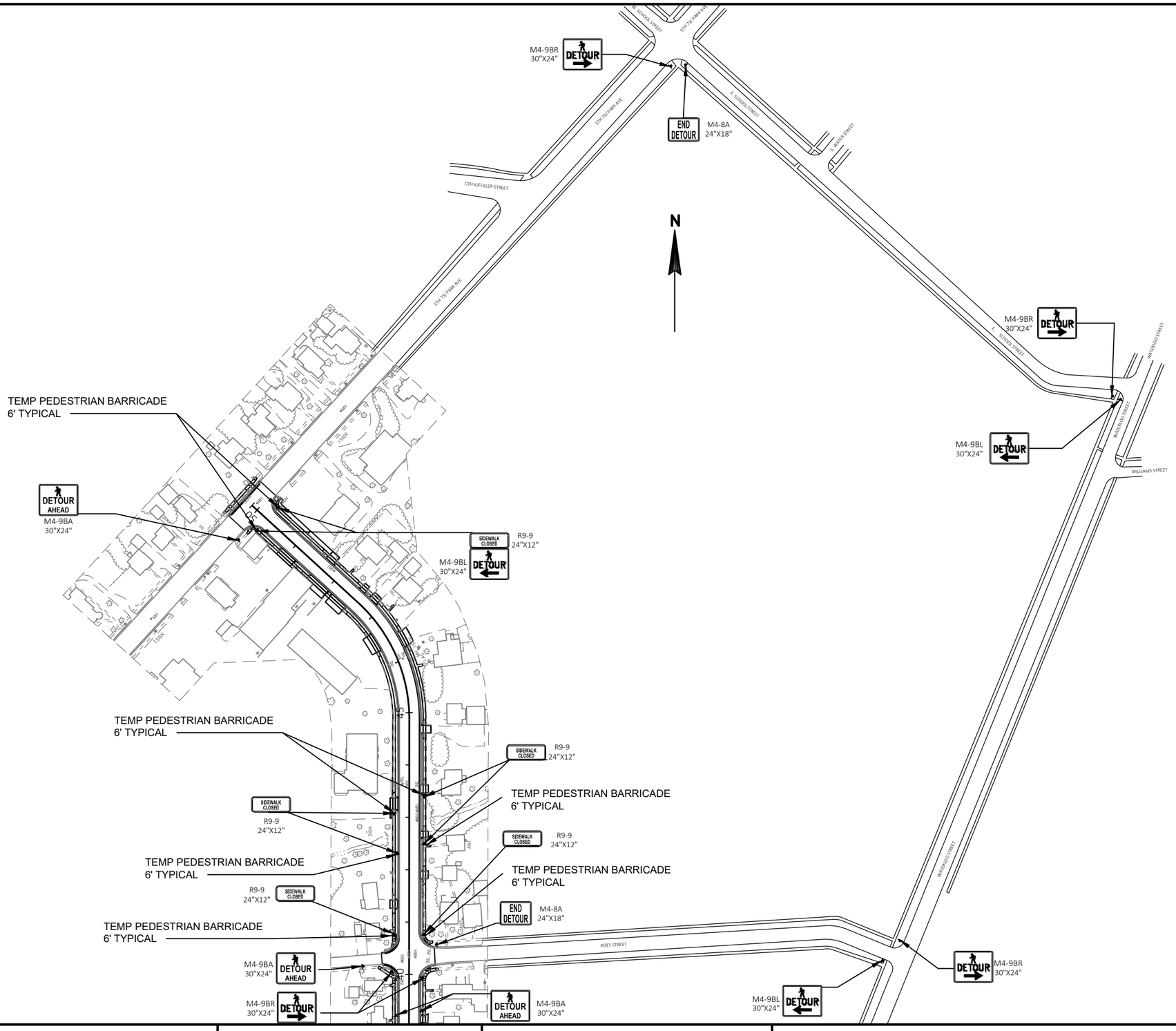


LEGEND
STH 89 DETOUR ROUTE STAGE 1, 2, & 3
STH 73 DETOUR ROUTE STAGE 3

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL DETOUR - STAGE 3	SHEET 129	E

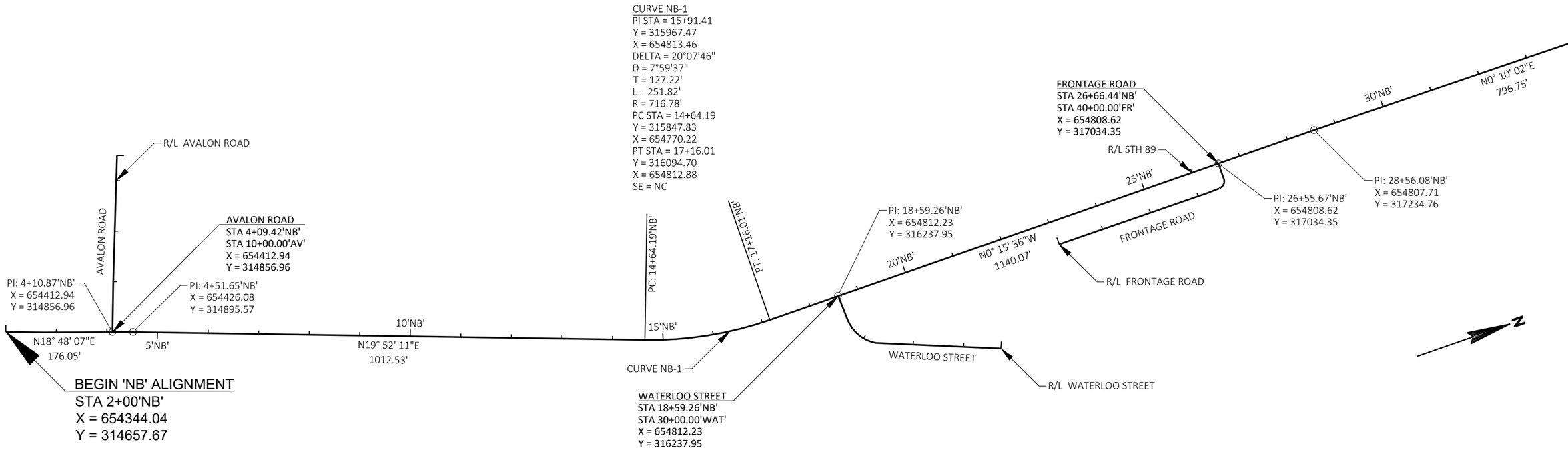
FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\027002_DT.DWG
LAYOUT NAME - 027001_dt01
PLOT DATE : 6/16/2021 9:59 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:1500 FT

2

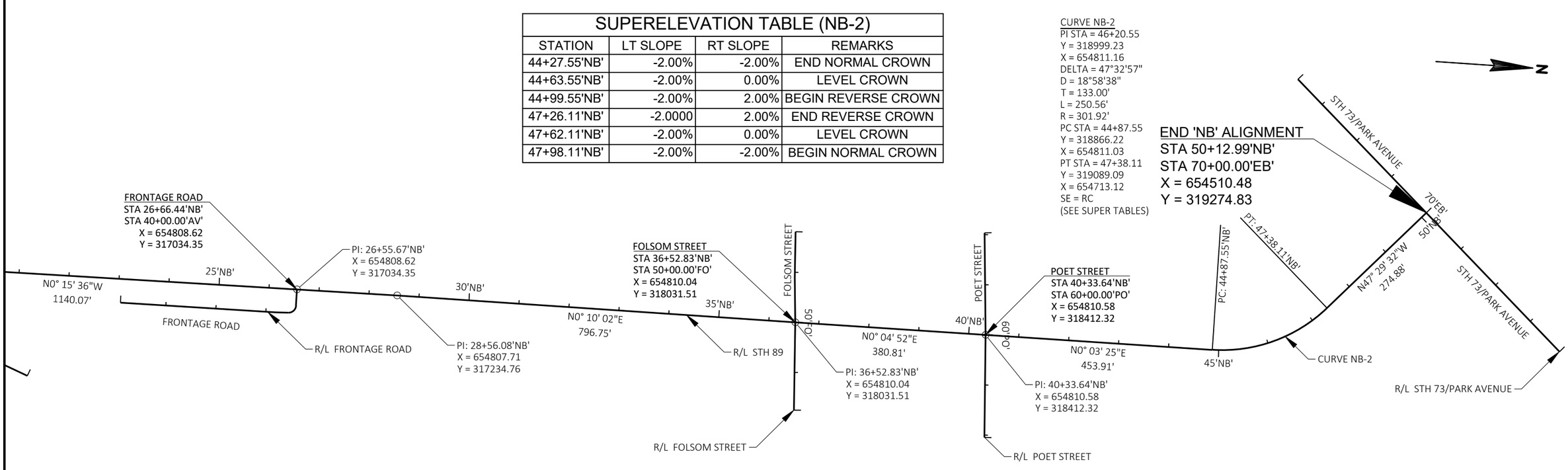


PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	TRAFFIC CONTROL PEDESTRIAN DETOUR - 2ND WARD CREEK	SHEET 130	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\027003_DT.DWG PLOT DATE : 7/29/2021 1:14 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : ##########



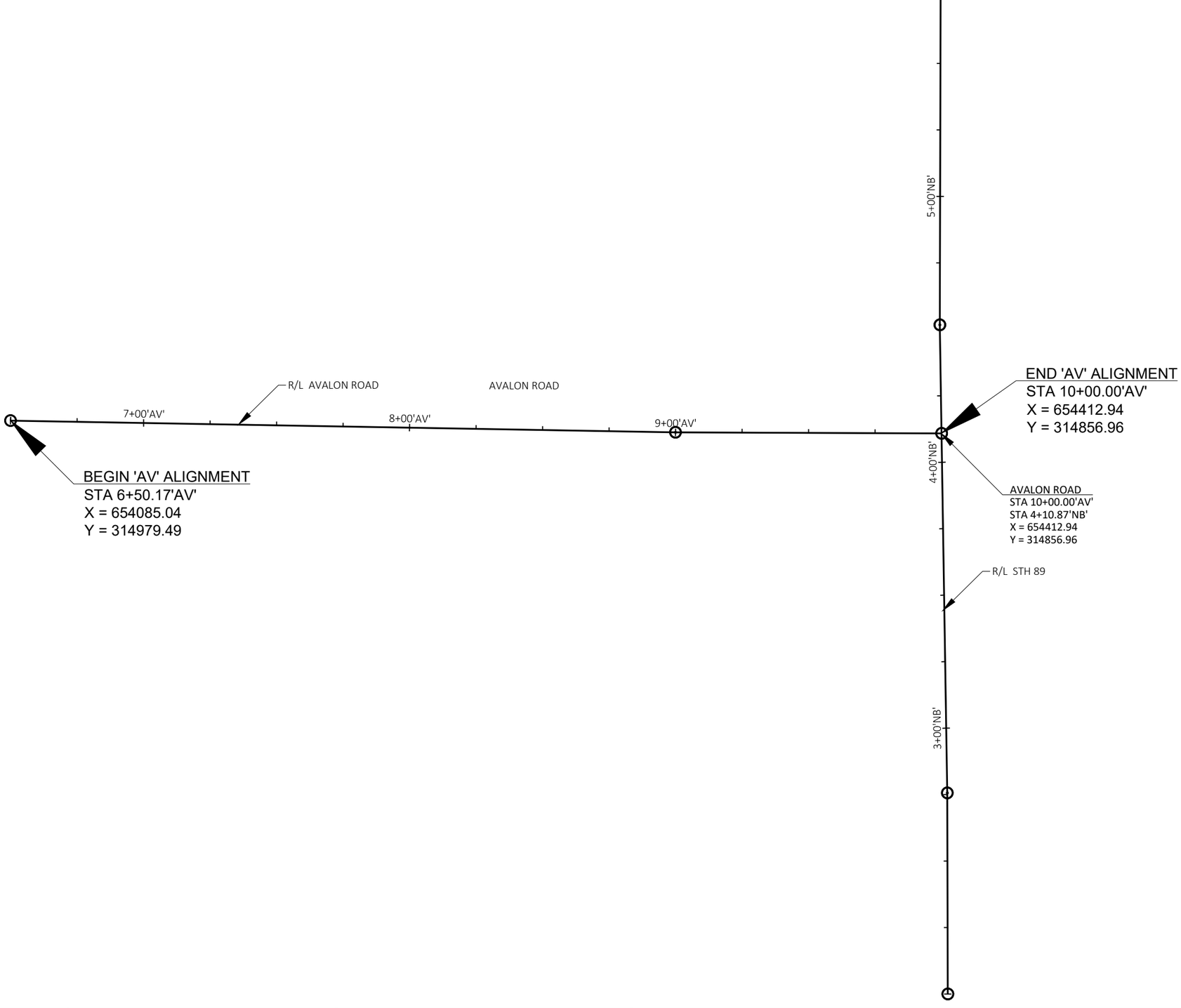
SUPERELEVATION TABLE (NB-2)			
STATION	LT SLOPE	RT SLOPE	REMARKS
44+27.55'NB'	-2.00%	-2.00%	END NORMAL CROWN
44+63.55'NB'	-2.00%	0.00%	LEVEL CROWN
44+99.55'NB'	-2.00%	2.00%	BEGIN REVERSE CROWN
47+26.11'NB'	-2.0000	2.00%	END REVERSE CROWN
47+62.11'NB'	-2.00%	0.00%	LEVEL CROWN
47+98.11'NB'	-2.00%	-2.00%	BEGIN NORMAL CROWN



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	ALIGNMENT DIAGRAM: STH 89	SHEET 131	E

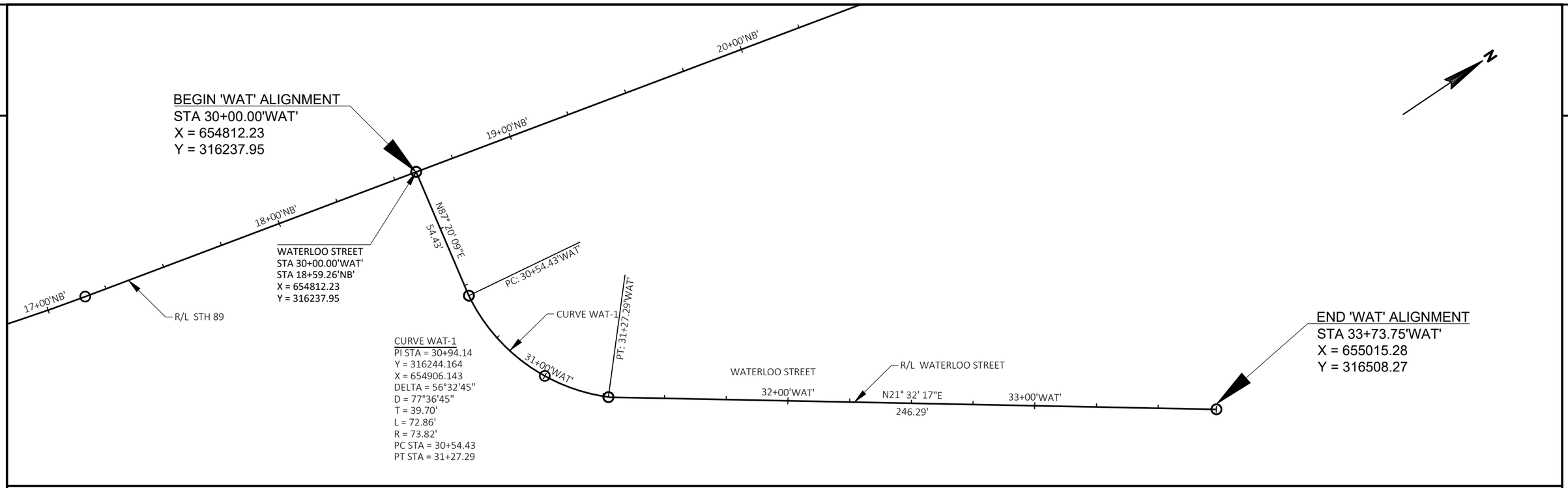
FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\027201_AD.DWG
LAYOUT NAME - 027201_ad01
PLOT DATE : 3/4/2020 9:12 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

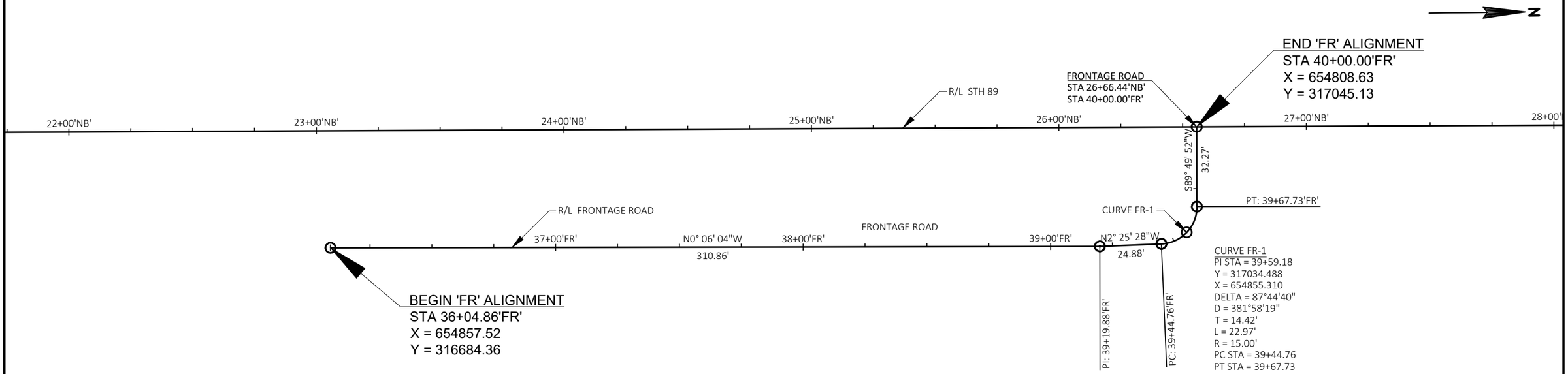
2



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	ALIGNMENT DIAGRAM: AVALON ROAD	SHEET 132	E

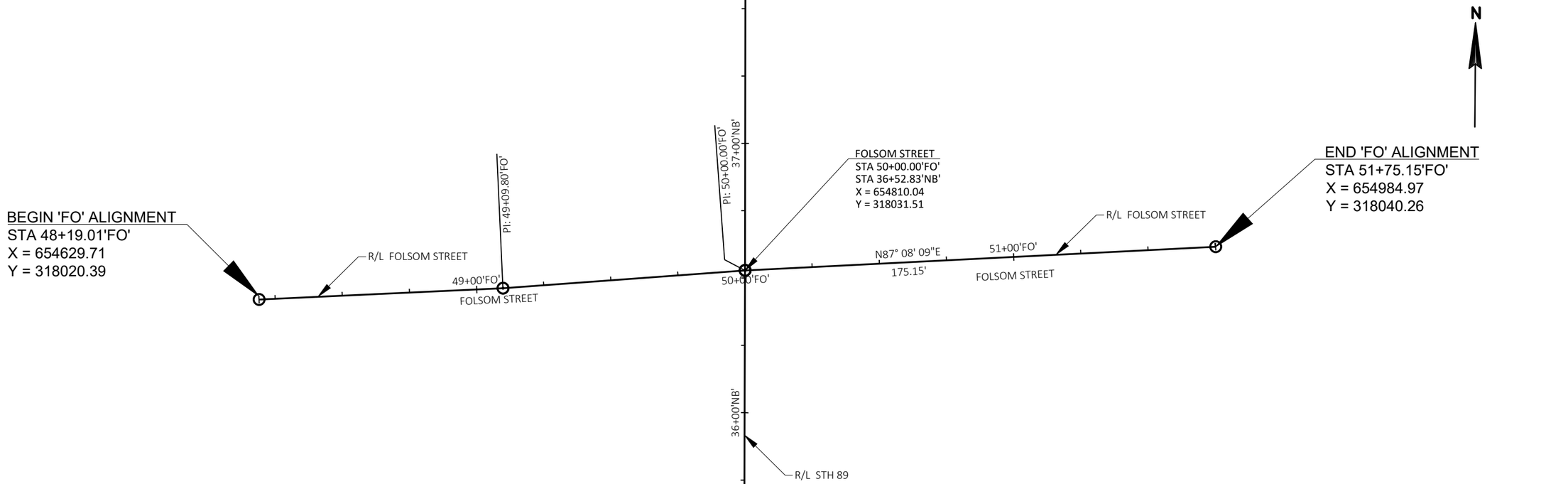
2

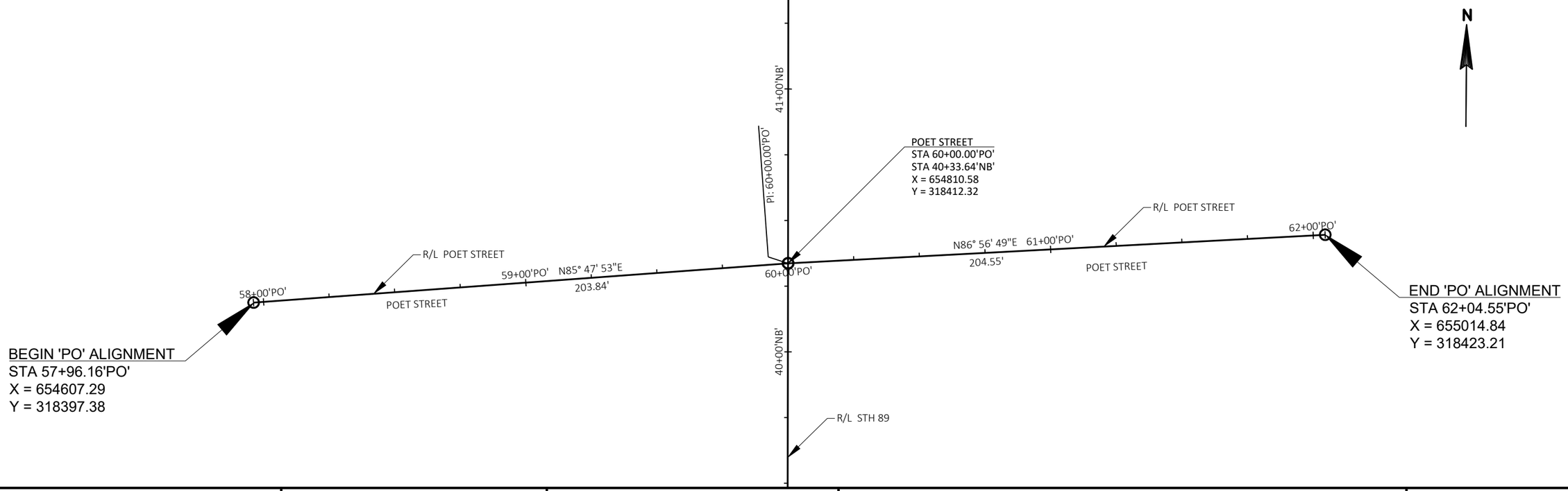




PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	ALIGNMENT DIAGRAM: WATERLOO STREET & FRONTAGE ROAD	SHEET 133	E

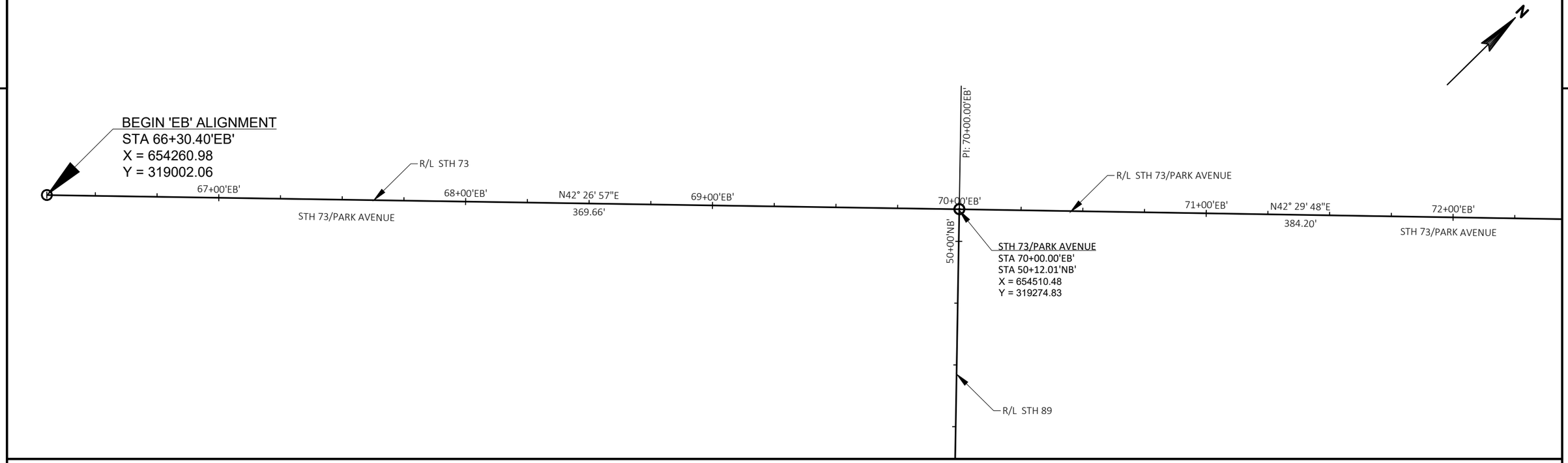
2

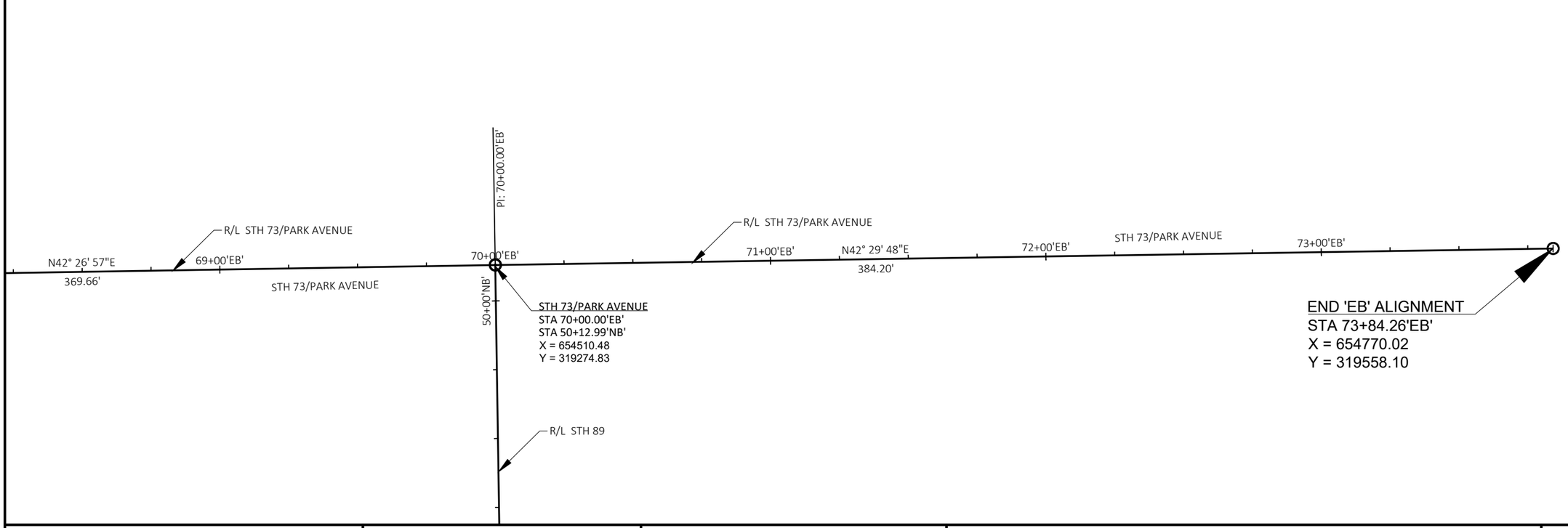




PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	ALIGNMENT DIAGRAM: FOLSOM STREET & POET STREET	SHEET 134	E

2





PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	ALIGNMENT DIAGRAM: STH 73	SHEET 135	E

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	3670-01-71 Qty	3670-01-72 Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	10.000	10.000	
0004	204.0100	Removing Concrete Pavement	SY	19,447.000	19,447.000	
0006	204.0110	Removing Asphaltic Surface	SY	1,789.000	886.000	903.000
0008	204.0150	Removing Curb & Gutter	LF	282.000	262.000	20.000
0010	204.0155	Removing Concrete Sidewalk	SY	2,920.000	2,920.000	
0012	204.0210	Removing Manholes	EACH	5.000	5.000	
0014	204.0220	Removing Inlets	EACH	10.000	10.000	
0016	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	478.000	478.000	
0018	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	724.000	724.000	
0020	204.0245	Removing Storm Sewer (size) 03. 21-Inch	LF	250.000	250.000	
0022	205.0100	Excavation Common	CY	19,240.000	19,240.000	
0024	206.2000	Excavation for Structures Culverts (structure) 01. M-11-0010	LS	1.000	1.000	
0026	210.1500	Backfill Structure Type A	TON	360.000	360.000	
0028	213.0100	Finishing Roadway (project) 01. 3670-01-71	EACH	1.000	1.000	
0030	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,305.000	1,305.000	
0032	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	8,560.000	8,560.000	
0034	311.0115	Breaker Run	CY	40.000	40.000	
0036	312.0110	Select Crushed Material	TON	21,949.000	21,949.000	
0038	405.0100	Coloring Concrete WisDOT Red	CY	9.000	9.000	
0040	415.0090	Concrete Pavement 9-Inch	SY	35.000	35.000	
0042	416.0160	Concrete Driveway 6-Inch	SY	1,346.000	1,346.000	
0044	416.0610	Drilled Tie Bars	EACH	28.000	28.000	
0046	455.0605	Tack Coat	GAL	1,049.000	1,049.000	
0048	460.2000	Incentive Density HMA Pavement	DOL	3,240.000	3,240.000	
0050	460.5224	HMA Pavement 4 LT 58-28 S	TON	5,050.000	4,868.000	182.000
0052	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	283.000	273.000	10.000
0054	504.0100	Concrete Masonry Culverts	CY	64.000	64.000	
0056	505.0400	Bar Steel Reinforcement HS Structures	LB	6,240.000	6,240.000	
0058	513.8021	Railing Steel Pedestrian Type C4	LF	107.000	107.000	
0060	516.0500	Rubberized Membrane Waterproofing	SY	28.000	28.000	
0062	521.1717	Apron Endwalls for Pipe Arch Sloped Side Drains Steel 17x13-Inch 6 to 1	EACH	2.000	2.000	
0064	521.3717	Pipe Arch Corrugated Steel 17x13-Inch	LF	38.000	38.000	
0066	522.0412	Culvert Pipe Reinforced Concrete Class IV 12-Inch	LF	100.000	100.000	
0068	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	4.000	4.000	
0070	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	2.000	2.000	
0072	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	1.000	1.000	
0074	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	2.000	2.000	
0076	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	7,940.000	7,940.000	
0078	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	92.000	92.000	
0080	601.0600	Concrete Curb Pedestrian	LF	6.000	6.000	
0082	602.0410	Concrete Sidewalk 5-Inch	SF	31,387.000	31,387.000	
0084	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	190.000	190.000	
0086	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	93.600	93.600	
0088	606.0200	Riprap Medium	CY	20.000	20.000	
0090	606.0300	Riprap Heavy	CY	60.000	60.000	
0092	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	27.000	27.000	
0094	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	866.000	866.000	
0096	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	193.000	193.000	
0098	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	3,044.000	3,044.000	

					3670-01-71	3670-01-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0100	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	114.000	114.000	
0102	608.2419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	20.000	20.000	
0104	608.2424	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	143.000	143.000	
0106	608.2429	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	813.000	813.000	
0108	611.0530	Manhole Covers Type J	EACH	29.000	29.000	
0110	611.0606	Inlet Covers Type B	EACH	1.000	1.000	
0112	611.0612	Inlet Covers Type C	EACH	1.000	1.000	
0114	611.0624	Inlet Covers Type H	EACH	29.000	29.000	
0116	611.0639	Inlet Covers Type H-S	EACH	8.000	8.000	
0118	611.0642	Inlet Covers Type MS	EACH	16.000	16.000	
0120	611.1005	Catch Basins 5-FT Diameter	EACH	2.000	2.000	
0122	611.1006	Catch Basins 6-FT Diameter	EACH	1.000	1.000	
0124	611.2004	Manholes 4-FT Diameter	EACH	2.000	2.000	
0126	611.2005	Manholes 5-FT Diameter	EACH	20.000	20.000	
0128	611.2007	Manholes 7-FT Diameter	EACH	6.000	6.000	
0130	611.2008	Manholes 8-FT Diameter	EACH	1.000	1.000	
0132	611.3004	Inlets 4-FT Diameter	EACH	9.000	9.000	
0134	611.3230	Inlets 2x3-FT	EACH	27.000	27.000	
0136	611.3901	Inlets Median 1 Grate	EACH	4.000	4.000	
0138	611.3902	Inlets Median 2 Grate	EACH	6.000	6.000	
0140	611.8110	Adjusting Manhole Covers	EACH	4.000	4.000	
0142	611.8120.S	Cover Plates Temporary	EACH	4.000	4.000	
0144	611.9800.S	Pipe Grates	EACH	1.000	1.000	
0146	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3670-01-71	EACH	1.000	1.000	
0148	619.1000	Mobilization	EACH	1.000	0.700	0.300
0150	624.0100	Water	MGAL	470.000	470.000	
0152	625.0100	Topsoil	SY	9,973.000	9,667.000	306.000
0154	628.1104	Erosion Bales	EACH	30.000	30.000	
0156	628.1504	Silt Fence	LF	3,214.000	3,214.000	
0158	628.1520	Silt Fence Maintenance	LF	3,214.000	3,214.000	
0160	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0162	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0164	628.2008	Erosion Mat Urban Class I Type B	SY	9,973.000	9,667.000	306.000
0166	628.7005	Inlet Protection Type A	EACH	54.000	54.000	
0168	628.7010	Inlet Protection Type B	EACH	2.000	2.000	
0170	628.7015	Inlet Protection Type C	EACH	51.000	51.000	
0172	628.7504	Temporary Ditch Checks	LF	44.000	44.000	
0174	628.7555	Culvert Pipe Checks	EACH	36.000	36.000	
0176	628.7570	Rock Bags	EACH	44.000	44.000	
0178	629.0210	Fertilizer Type B	CWT	6.292	6.092	0.200
0180	630.0140	Seeding Mixture No. 40	LB	182.400	174.400	8.000
0182	630.0200	Seeding Temporary	LB	130.900	130.900	
0184	630.0500	Seed Water	MGAL	161.000	161.000	
0186	631.0300	Sod Water	MGAL	121.000	121.000	
0188	631.1000	Sod Lawn	SY	5,145.000	5,145.000	
0190	633.5200	Markers Culvert End	EACH	6.000	6.000	
0192	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	16.000	16.000	
0194	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	13.000	13.000	
0196	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	3.000	3.000	

Line	Item	Item Description	Unit	Total	3670-01-71 Qty	3670-01-72 Qty
0198	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	1.000	1.000	
0200	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	2.000	2.000	
0202	637.2210	Signs Type II Reflective H	SF	188.720	188.720	
0204	637.2230	Signs Type II Reflective F	SF	75.750	75.750	
0206	638.2602	Removing Signs Type II	EACH	40.000	40.000	
0208	638.3000	Removing Small Sign Supports	EACH	33.000	33.000	
0210	642.5401	Field Office Type D	EACH	1.000	1.000	
0212	643.0300	Traffic Control Drums	DAY	480.000	480.000	
0214	643.0420	Traffic Control Barricades Type III	DAY	3,033.000	3,033.000	
0216	643.0705	Traffic Control Warning Lights Type A	DAY	6,066.000	6,066.000	
0218	643.0900	Traffic Control Signs	DAY	26,359.000	26,359.000	
0220	643.0910	Traffic Control Covering Signs Type I	EACH	2.000	2.000	
0222	643.0920	Traffic Control Covering Signs Type II	EACH	19.000	19.000	
0224	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000	
0226	643.5000	Traffic Control	EACH	1.000	1.000	
0228	644.1420	Temporary Pedestrian Surface Plywood	SF	1,000.000	1,000.000	
0230	644.1430	Temporary Pedestrian Surface Plate	SF	9,900.000	9,900.000	
0232	644.1601	Temporary Pedestrian Curb Ramp	DAY	886.000	886.000	
0234	644.1810	Temporary Pedestrian Barricade	LF	3,650.000	3,650.000	
0236	645.0105	Geotextile Type C	SY	110.000	110.000	
0238	645.0120	Geotextile Type HR	SY	216.000	216.000	
0240	645.0220	Geogrid Type SR	SY	10,536.000	10,536.000	
0242	646.1020	Marking Line Epoxy 4-Inch	LF	10,592.000	10,592.000	
0244	646.6120	Marking Stop Line Epoxy 18-Inch	LF	149.000	149.000	
0246	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,065.000	1,065.000	
0248	646.8120	Marking Curb Epoxy	LF	1,254.000	1,254.000	
0250	650.4000	Construction Staking Storm Sewer	EACH	85.000	85.000	
0252	650.4500	Construction Staking Subgrade	LF	4,765.000	4,765.000	
0254	650.5000	Construction Staking Base	LF	4,765.000	4,765.000	
0256	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	7,940.000	7,940.000	
0258	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000	
0260	650.6500	Construction Staking Structure Layout (structure) 01. M-11-0010	LS	1.000	1.000	
0262	650.8500	Construction Staking Electrical Installations (project) 01. 3670-01-71	LS	1.000	1.000	
0264	650.9000	Construction Staking Curb Ramps	EACH	25.000	25.000	
0266	650.9910	Construction Staking Supplemental Control (project) 01. 3670-01-71	LS	1.000	1.000	
0268	650.9920	Construction Staking Slope Stakes	LF	4,765.000	4,765.000	
0270	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	4,628.000	4,628.000	
0272	653.0140	Pull Boxes Steel 24x42-Inch	EACH	2.000	2.000	
0274	654.0105	Concrete Bases Type 5	EACH	48.000	48.000	
0276	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000	
0278	655.0610	Electrical Wire Lighting 12 AWG	LF	5,616.000	5,616.000	
0280	655.0620	Electrical Wire Lighting 8 AWG	LF	4,908.000	4,908.000	
0282	655.0625	Electrical Wire Lighting 6 AWG	LF	19,632.000	19,632.000	
0284	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. Distribution Center	LS	1.000	1.000	
0286	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	48.000	48.000	
0288	657.0322	Poles Type 5-Aluminum	EACH	48.000	48.000	
0290	657.0620	Luminaire Arms Single Member 6-Inch Clamp 4-FT	EACH	48.000	48.000	
0292	659.1115	Luminaires Utility LED A	EACH	48.000	48.000	
0294	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	1.000	1.000	

Line	Item	Item Description	Unit	Total	3670-01-71 Qty	3670-01-72 Qty
0296	690.0150	Sawing Asphalt	LF	919.000	919.000	
0298	690.0250	Sawing Concrete	LF	565.000	565.000	
0300	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000	
0302	740.0440	Incentive IRI Ride	DOL	3,542.000	3,542.000	
0304	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000	
0306	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,320.000	1,320.000	
0308	SPV.0060	Special 01. Powder Coating Light Poles	EACH	48.000	48.000	
0310	SPV.0060	Special 02. Verify and Replace Existing Land Parcel Monuments	EACH	56.000	56.000	
0312	SPV.0060	Special 03. Verify Landmark Reference Monuments	EACH	1.000	1.000	
0314	SPV.0060	Special 04. Research and Locate Existing Land Parcel Monuments	EACH	56.000	56.000	
0316	SPV.0060	Special 05. New Sanitary Lateral Connection	EACH	1.000		1.000
0318	SPV.0060	Special 06. Sanitary Lateral Locator Box	EACH	43.000		43.000
0320	SPV.0060	Special 07. Abandon Sanitary Sewer Manhole	EACH	7.000		7.000
0322	SPV.0060	Special 08. Remove Sanitary Sewer Manhole	EACH	8.000		8.000
0324	SPV.0060	Special 09. 6-Inch Water Main Valve	EACH	5.000		5.000
0326	SPV.0060	Special 10. 8-Inch Water Main Valve	EACH	8.000		8.000
0328	SPV.0060	Special 11. Hydrant Assembly	EACH	3.000		3.000
0330	SPV.0060	Special 12. 3/4-Inch Tap and Corporation Valve	EACH	1.000		1.000
0332	SPV.0060	Special 13. 1-Inch Tap and Corporation Valve	EACH	6.000		6.000
0334	SPV.0060	Special 14. 2-Inch Tap and Corporation Valve	EACH	1.000		1.000
0336	SPV.0060	Special 15. 3/4-Inch Curb Valve and Curb Box	EACH	6.000		6.000
0338	SPV.0060	Special 16. 1-Inch Curb Valve and Curb Box	EACH	6.000		6.000
0340	SPV.0060	Special 17. 2-Inch Curb Valve and Curb Box	EACH	1.000		1.000
0342	SPV.0060	Special 18. Abandon Water Main (Cut Off)	EACH	8.000		8.000
0344	SPV.0060	Special 19. Abandon Water Valve Box	EACH	8.000		8.000
0346	SPV.0060	Special 20. Abandon Hydrant	EACH	2.000		2.000
0348	SPV.0060	Special 21. Ductile Iron Pipe Nitrile Gasket	EACH	10.000		10.000
0350	SPV.0060	Special 22. Adjust Hydrant	EACH	4.000		4.000
0352	SPV.0060	Special 23. Adjust Water Valve Box	EACH	7.000		7.000
0354	SPV.0060	Special 24. Adjust Water Valve Manhole	EACH	2.000		2.000
0356	SPV.0060	Special 25. Adjust Curb Box	EACH	27.000		27.000
0358	SPV.0060	Special 26. Exposing Existing Infrastructure Unpaved Area	EACH	20.000	20.000	
0360	SPV.0060	Special 27. Exposing Existing Infrastructure Paved Area	EACH	5.000	5.000	
0362	SPV.0060	Special 28. Construction Staking Sanitary Sewer	EACH	1.000		1.000
0364	SPV.0060	Special 29. Soccer Field Water Service Assembly and Reconnection	EACH	1.000		1.000
0366	SPV.0060	Special 30. Construction Staking Water Main	EACH	1.000		1.000
0368	SPV.0090	Special 01. Smooth Lined CMP Culvert Pipe Arch, 66-Inch x 51-Inch	LF	190.000	190.000	
0370	SPV.0090	Special 02. Smooth Lined CMP Culvert Pipe Arch, 53-Inch x 41-Inch	LF	95.000	95.000	
0372	SPV.0090	Special 03. Pipe Underdrain (6-Inch) with Geotextile Fabric and Aggregate	LF	3,108.000	3,108.000	
0374	SPV.0090	Special 04. 8-Inch Sanitary Sewer w/Granular Backfill	LF	1,800.200		1,800.200
0376	SPV.0090	Special 05. 10-Inch Sanitary Sewer w/Granular Backfill	LF	716.300		716.300
0378	SPV.0090	Special 06. 8-Inch Sanitary Sewer Relay w/Granular Backfill	LF	1,067.200		1,067.200
0380	SPV.0090	Special 07. 10-Inch Sanitary Sewer Relay w/Granular Backfill	LF	45.000		45.000
0382	SPV.0090	Special 08. 12-Inch Sanitary Sewer Relay w/ Granular Backfill	LF	24.000		24.000
0384	SPV.0090	Special 09. 8-Inch Sanitary Sewer w/Spoil Backfill	LF	90.000		90.000
0386	SPV.0090	Special 10. 6-Inch Sanitary Sewer Lateral	LF	1,377.600		1,377.600
0388	SPV.0090	Special 11. 6-Inch Sanitary Sewer Lateral Extension	LF	238.000		238.000
0390	SPV.0090	Special 12. Abandon Sanitary Sewer 8-Inch	LF	1,281.900		1,281.900
0392	SPV.0090	Special 13. Abandon Sanitary Sewer 10-Inch	LF	1,002.500		1,002.500

					3670-01-71	3670-01-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0394	SPV.0090	Special 14. 6-Inch Water Main w/Granular Backfill	LF	100.500		100.500
0396	SPV.0090	Special 15. 8-Inch Water Main w/Granular Backfill	LF	1,414.400		1,414.400
0398	SPV.0090	Special 16. 6-Inch Water Main Relay w/Granular Backfill	LF	39.400		39.400
0400	SPV.0090	Special 17. 10-Inch Water Main Relay w/Granular Backfill	LF	5.000		5.000
0402	SPV.0090	Special 18. 6-Inch Hydrant Lead	LF	48.000		48.000
0404	SPV.0090	Special 19. 3/4-Inch Water Service Extension - Open Trench w/Granular Backfill	LF	381.100		381.100
0406	SPV.0090	Special 20. 1-Inch Water Service - Open Trench w/Granular Backfill	LF	332.700		332.700
0408	SPV.0090	Special 21. 2-Inch Water Service - Open Trench w/Granular Backfill	LF	13.000		13.000
0410	SPV.0090	Special 22. Pipe Insulation	LF	200.000	64.000	136.000
0412	SPV.0120	Special 01. Management of Petroleum-Contaminated Groundwater	MGAL	0.434	0.034	0.400
0414	SPV.0195	Special 01. Excavation, Hauling, and Disposal of Contaminated Soil	TON	698.000	148.000	550.000
0416	SPV.0200	Special 01. New 48-Inch Sanitary Sewer Manhole	VF	124.210		124.210
0418	SPV.0200	Special 02. New 48-Inch Sanitary Sewer Manhole (Outside Drop)	VF	15.540		15.540
0420	SPV.0200	Special 03. 48-Inch Sanitary Sewer Manhole Replacement	VF	26.510		26.510

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CATEGORY	STATION	TO	LENGTH FEET	DIAMETER INCHES	MATERIAL	203.0100 REMOVING SMALL PIPE CULVERTS EACH	REMARKS
0010	8+65	NB	14	12	CMCP	2	UNDER SIDEWALK LT
0010	9+10	NB	42	12	CMCP	1	UNDER SIDEWALK LT
0010	12+79	NB	56	30	CMCP	1	UNDER STH 89
0010	14+00	NB	38	12	CMCP	1	UNDER SIDEWALK RT
0010	14+90	NB	14	12	CMCP	1	UNDER SIDEWALK LT
0010	16+28	NB	54	24	CMCP	1	UNDER STH 89
0010	42+75	NB	94	48	CMCP	3	2ND WARD CREEK UNDER STH 89
PROJECT 3670-01-71 TOTAL 0010						**10**	

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CATEGORY	STATION	TO	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY	REMARKS
0010	5+52	-	17+42	2,910	MAINLINE
0010	17+42	-	19+27	554	MAINLINE
0010	19+27	-	20+15	217	MAINLINE
0010	20+15	-	21+99	540	MAINLINE
0010	21+99	-	26+41	1,764	MAINLINE
0010	26+41	-	35+98	4,785	MAINLINE
0010	27+62	-	27+82	13	DRIVEWAY APRON RT
0010	28+32	-	28+51	33	DRIVEWAY APRON & DRIVEWAY RT
0010	28+59	-	28+74	10	DRIVEWAY APRON RT
0010	30+01	-	30+18	20	DRIVEWAY APRON & DRIVEWAY RT
0010	30+68	-	30+82	8	DRIVEWAY APRON RT
0010	31+23	-	31+60	19	DRIVEWAY APRON LT
0010	32+25	-	32+42	10	DRIVEWAY APRON RT
0010	32+81	-	32+95	13	DRIVEWAY APRON & DRIVEWAY RT
0010	32+90	-	33+08	18	DRIVEWAY APRON & DRIVEWAY LT
0010	33+28	-	33+55	17	DRIVEWAY APRON RT
0010	33+79	-	34+08	17	DRIVEWAY APRON LT
0010	34+17	-	34+43	15	DRIVEWAY APRON RT
0010	34+89	-	35+05	8	DRIVEWAY APRON RT
0010	35+38	-	35+60	12	DRIVEWAY APRON RT

CATEGORY	STATION	TO	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY	REMARKS
0010	35+98	-	36+99	809	FOLSOM STREET INTERSECTION
0010	36+99	-	39+86	1,438	MAINLINE
0010	37+82	-	38+14	34	DRIVEWAY APRON & DRIVEWAY LT
0010	38+64	-	38+83	20	DRIVEWAY APRON & DRIVEWAY LT
0010	39+05	-	39+20	16	DRIVEWAY APRON & DRIVEWAY RT
0010	39+86	-	40+79	747	POET STREET INTERSECTION
0010	40+79	-	49+69	4,449	MAINLINE
0010	41+26	-	41+43	10	DRIVEWAY APRON LT
0010	41+81	-	41+96	15	DRIVEWAY APRON & DRIVEWAY RT
0010	42+58	-	42+75	10	DRIVEWAY APRON RT
0010	43+11	-	43+40	17	DRIVEWAY APRON LT
0010	43+45	-	43+63	18	DRIVEWAY APRON & DRIVEWAY RT
0010	44+59	-	44+79	11	DRIVEWAY APRON RT
0010	46+17	-	46+48	19	DRIVEWAY APRON RT
0010	46+32	-	46+77	27	DRIVEWAY APRON LT
0010	47+09	-	47+24	11	DRIVEWAY APRON RT
0010	47+38	-	47+57	10	DRIVEWAY APRON RT
0010	47+51	-	48+41	89	DRIVEWAY APRON & DRIVEWAY LT
0010	48+18	-	48+41	13	DRIVEWAY APRON RT
0010	48+40	-	49+38	78	PARKING LOT RT
0010	48+74		49+17	28	DRIVEWAY APRON LT
0010	49+35		49+66	21	DRIVEWAY APRON RT
0010	49+69		50+13	574	STH 73/PARK AVE INTERSECTION
PROJECT 3670-01-71 TOTAL 0010				**19,447**	

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CATEGORY	STATION	TO	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY
PROJECT 3670-01-71					
0010	3+75	-	4+40	DRIVEWAY RT	128
0010	8+64	-	9+51	DRIVEWAY LT	17
0010	13+82	-	14+38	DRIVEWAY RT	155
0010	13+57	-	15+35	DRIVEWAY LT	17
0010	22+18	-	22+59	DRIVEWAY LT	125
0010	26+15	-	26+57	DRIVEWAY LT	53
0010	26+56	-	26+74	DRIVEWAY RT	20
0010	26+88	-	27+04	DRIVEWAY RT	21
0010	27+64	-	27+81	DRIVEWAY RT	14
0010	29+55	-	29+90	DRIVEWAY LT	39
0010	30+68	-	30+80	DRIVEWAY RT	17
0010	31+23	-	31+60	DRIVEWAY LT	15
0010	32+25	-	32+42	DRIVEWAY RT	6
0010	33+28	-	33+55	DRIVEWAY RT	11
0010	33+80	-	34+08	DRIVEWAY LT	12
0010	34+18	-	34+43	DRIVEWAY RT	29
0010	34+59	-	34+87	DRIVEWAY LT	29
0010	34+89	-	35+04	DRIVEWAY RT	11
0010	42+61	-	42+75	DRIVEWAY RT	5
0010	42+98	-	43+38	PARKING LOT LT	19
0010	44+61	-	44+77	DRIVEWAY RT	15
0010	46+24	-	46+49	DRIVEWAY RT	32
0010	47+12	-	47+28	DRIVEWAY RT	10
0010	47+41	-	47+53	DRIVEWAY RT	6
0010	48+22	-	48+40	DRIVEWAY RT	15
0010	48+74	-	49+32	DRIVEWAY LT	27
0010	49+38	-	49+80	PARKING LOT RT	38
			PROJECT 3670-01-71	**TOTAL 0010**	**886**
PROJECT 3670-01-72					
CATEGORY					
0010					691
0020					212
			PROJECT 3670-01-72 TOTAL		**903**
				PROJECT TOTAL	**1789**

CATEGORY	STATION	TO	STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF	REMARKS
PROJECT 3670-01-71						
0010	3+65	-	3+94	LT	42	AVALON RD SW QUAD
0010	4+31	-	4+59	LT	42	AVALON RD NW QUAD
0010	18+13	-	18+57	RT	91	WATERLOO ST SE QUAD
0010	18+74	-	19+07	RT	79	WATERLOO ST NE QUAD
0010	33+84			LT	4	DRIVEWAY
0010	34+04	-		LT	4	DRIVEWAY
			PROJECT 3670-01-71	**TOTAL 0010**	**262**	
PROJECT 3670-01-72						
0020					20	
			PROJECT 3670-01-72 TOTAL 0020		**20**	
				PROJECT TOTAL	**282**	

CATEGORY	STATION	TO	STATION	LOCATION	204.0155 REMOVING CONCRETE SIDEWALK SY	REMARKS
0010	4+37	-	4+60	NB	20	LT
0010	8+55	-	8+97	NB	24	LT
0010	9+26	-	9+42	NB	9	LT
0010	14+29	-	14+40	NB	7	LT
0010	14+69	-	22+26	NB	416	LT
0010	22+55	-	26+18	NB	194	LT
0010	26+49	-	36+26	NB	543	LT
0010	26+76	-	36+31	NB	419	RT
0010	36+72	-	40+16	NB	169	LT
0010	36+78	-	40+12	NB	164	RT
0010	40+52	-	49+86	NB	415	LT
0010	40+58	-	49+87	NB	493	RT
0010	69+58	-	70+45	EB	47	LT
			PROJECT 3670-01-71 TOTAL 0010		**2,920**	

CATEGORY	STATION		LOCATION	204.0210 REMOVING MANHOLES EACH	REMARKS
0010	34+48	NB	RT	1	TERRACE
0010	36+24	NB	LT	1	
0010	40+24	NB	LT	1	
0010	43+63	NB	LT	1	
0010	46+02	NB	RT	1	
PROJECT 3670-01-71 TOTAL 0010				**5**	

CATEGORY	STATION		LOCATION	204.0220 REMOVING INLETS EACH	REMARKS
0010	34+34	NB	RT	1	TIFFANY APARTMENTS DRIVEWAY
0010	36+05	NB	LT	1	FOLSOM ST SW QUAD
0010	36+12	NB	RT	1	FOLSOM ST SE QUAD
0010	39+85	NB	LT	1	
0010	40+17	NB	RT	1	POET ST SE QUAD
0010	40+52	NB	RT	1	POET ST NE QUAD
0010	43+63	NB	LT & RT	2	
0010	46+02	NB	LT & RT	2	
PROJECT 3670-01-71 TOTAL 0010				**10**	

3

REMOVING STORM SEWER SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 12-INCH) LF	204.0245.02 REMOVING STORM SEWER (SIZE) (02. 15-INCH) LF	204.0245.03 REMOVING STORM SEWER (SIZE) (03. 21-INCH) LF	REMARKS
0010	34+35	-	36+12	NB	178	--	--	TIFFANY APARTMENTS RT
0010	36+05	-	36+24	NB	18	--	--	LEFT
0010	36+12	-	36+24	NB	34	--	--	RIGHT
0010	36+24	-	40+24	NB	--	400	--	MAIN
0010	39+85	-	40+24	NB	36	--	--	LEFT
0010	40+24	-	42+74	NB	--	--	250	MAIN
0010	42+79	-	43+64	NB	--	85	--	MAIN
0010	43+64	-		NB	36	--	--	LEFT & RIGHT
0010	43+64	-	46+02	NB	--	239	--	MAIN
0010	46+02	-		NB	34	--	--	LEFT & RIGHT
0010	49+53	-	49+21	FO	32	--	--	SW QUAD
0010	59+86	-	60+41	PO	52	--	--	RIGHT
0010	59+86	-	60+41	PO	58	--	--	LEFT
PROJECT 3670-01-71 TOTAL 0010					**478**	**724**	**250**	

EARTHWORK SUMMARY

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.33	MASS ORDINATE +/- (14)
DIVISION 1									
QR-73	69+38.003/70+44.586		371	16	165	206	0	0	206
QR-89	02+47.34/49+92.931		16,966	719	4,987	11,979	1,344	1,788	10,192
QR-AVALON	09+52.181/09+80		72	4	10	62	0	0	62
QR-FOLSOM	49+47.316/50+51.393		178	8	78	100	0	0	100
QR-FRONTAGE	39+33.056/39+80.998		132	5	41	91	0	0	91
QR-WATERLOO	30+17.096/30+81.161		176	7	53	124	29	39	85
QR-POET	59+47.83/60+49.336		158	7	67	91	3	4	87
QR-HOFFMAN POND	00+10/01+80		422	0	0	422	71	94	328
DIVISION 1 SUBTOTAL			18,475	765	5,399	13,076	1,447	1,925	11,151
GRAND TOTAL			18,475	765	5,399	13,076	1,447	1,925	11,151
	PROJECT 3670-01-71 TOTALS			**19,240**					

NOTES:
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.
(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(13) EXPANDED FILL FACTOR = 1.33
DEPENDING ON SELECTIONS: **EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR**
(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

CATEGORY	LOCATION	213.0100.01 FINISHING ROADWAY (PROJECT) (01. 3670-01-71) EACH
0010	3670-01-71	1
PROJECT 3670-01-71 TOTAL 0010		**1**

3

BASE AGGREGATE SUMMARY

CATEGORY	STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100 WATER MGAL	645.0220 GEOGRID TYPE SR SY	REMARKS
STH 89 NB									
0010	2+93	-	3+64	19	106	201	5.0	317	MAINLINE AND SHOULDER
0010	3+64	-	4+60	13	139	263	6.0	415	MAINLINE AND SHOULDER
0010	4+42	-	4+60	5	--	--	1.0	--	SIDEWALK LT
0010	4+60	-	17+39	166	2,062	3,918	87.0	6,186	MAINLINE AND SHOULDER
0010	5+90	-		--	--	1	--	--	FRENCH DRAIN
0010	8+55	-	8+97	7	--	--	1.0	--	SIDEWALK LT
0010	8+80	-		--	--	1	--	--	FRENCH DRAIN
0010	9+26	-	9+42	3	--	--	1.0	--	SIDEWALK LT
0010	11+30	-		--	--	1	--	--	FRENCH DRAIN
0010	13+80	-		--	--	1	--	--	FRENCH DRAIN
0010	14+28	-	14+38	2	--	--	1.0	--	SIDEWALK LT
0010	14+68	-	36+29	341	--	--	5.0	--	SIDEWALK LT
0010	16+40	-		--	--	2	--	--	FRENCH DRAIN
0010	17+39	-	18+15	10	129	245	6.0	387	MAINLINE AND SHOULDER
0010	18+15	-	18+90	--	95	241	5.0	--	MAINLINE AND SHOULDER
0010	18+15	-	18+90	--	17	42	1.0	--	PARKING LANES
0010	18+90	-	19+26	--	63	159	4.0	--	MAINLINE AND SHOULDER
0010	19+00	-	26+36	116	--	--	2.0	--	SIDEWALK RT
0010	19+26	-	26+09	--	887	2,246	44.0	--	DRIVING LANES
0010	19+26	-	26+09	--	304	771	16.0	--	PARKING LANES
0010	26+09	-	27+00	--	122	309	7.0	--	MAINLINE AND SHOULDER
0010	26+09	-	27+00	--	21	51	2.0	--	PARKING LANES
0010	26+75	-	36+31	156	--	--	3.0	--	SIDEWALK RT
0010	27+00	-	35+83	--	1,146	2,902	57.0	--	MAINLINE AND SHOULDER
0010	27+00	-	35+83	--	393	995	20.0	--	PARKING LANES
0010	35+83	-	37+21	--	194	492	10.0	--	MAINLINE AND SHOULDER
0010	36+71	-	40+15	63	--	--	1.0	--	SIDEWALK LT
0010	36+78	-	40+15	61	--	--	1.0	--	SIDEWALK RT
0010	37+21	-	39+69	--	322	816	16.0	--	DRIVING LANES
0010	37+21	-	39+69	--	111	280	6.0	--	PARKING LANES
0010	39+69	-	41+01	--	186	470	10.0	--	MAINLINE AND SHOULDER
0010	40+47	-	49+90	147	--	--	3.0	--	SIDEWALK LT
0010	40+55	-	49+89	159	--	--	3.0	--	SIDEWALK RT
0010	41+01	-	43+80	--	362	917	18.0	--	DRIVING LANES
0010	41+01	-	43+80	--	125	315	7.0	--	PARKING LANES
0010	43+80	-	49+68	--	1,023	2,592	51.0	--	MAINLINE AND SHOULDER
			PAGE TOTAL	**1,268**	**7,807**	**18,231**	**400**	**7,305**	

BASE AGGREGATE SUMMARY CONTINUED

CATEGORY	STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100 WATER MGAL	645.0220 GEOGRID TYPE SR SY	
STH 73 EB									
0010	69+58	-	70+45	17	--	--	1.0	--	SIDEWALK LT
DRIVEWAYS									
0010	28+62			3	3	--	--	--	DRIVEWAY
0010	35+43			4	4	--	--	--	DRIVEWAY
0010	41+26			2	2	--	--	--	DRIVEWAY
0010	46+31			4	4	--	--	--	DRIVEWAY BUS STOP
0010	47+50			7	7	--	--	--	DRIVEWAY BUS STOP
SIDEROADS									
0010	AVALON ROAD			--	71	135	3.0	213	INTERSECTION MATCH
0010	WATERLOO STREET			--	103	259	6.0	--	INTERSECTION MATCH
0010	FRONTAGE ROAD			--	67	169	4.0	--	INTERSECTION MATCH
0010	FOLSOM STREET			--	152	384	8.0	--	INTERSECTION MATCH
0010	POET STREET			--	135	341	7.0	--	INTERSECTION MATCH
0010	STH 73			--	205	518	11.0	--	INTERSECTION MATCH
UNDISTRIBUTED									
0010	EBS			--	--	1,912	30.0	3,018	
			PAGE TOTAL	**37**	**753**	**3,718**	**70**	**3,231**	
			PROJET 3670-01-71 TOTAL 0010	**1,305**	**8,560**	**21,949**	**470**	**10,536**	

CONCRETE PAVEMENT SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	415.0090 CONCRETE PAVEMENT 9-INCH SY	REMARKS
STH 73							
0010	69+55	-	69+68	EB LT	1	4	
0010	69+68	-	69+73	EB LT	0	3	
0010	69+73	-	70+25	EB LT	6	21	
0010	70+25	-	70+30	EB LT	0	2	
0010	70+30	-	70+45	EB LT	2	5	
			PROJECT 3670-01-71	**TOTAL 0010**	**9**	**35**	

CATEGORY	STATION	TO	STATION	LOCATION	416.0160 CONCRETE DRIVEWAY 6-INCH SY	REMARKS
0010	9+30	NB		DRIVEWAY LT	136	APRON & SIDEWALK
0010	14+54	NB		DRIVEWAY LT	116	APRON & SIDEWALK
0010	22+40	NB		DRIVEWAY LT	38	APRON & SIDEWALK
0010	26+33	NB		DRIVEWAY LT	37	APRON & SIDEWALK
0010	26+97	NB		DRIVEWAY RT	15	APRON & SIDEWALK
0010	27+73.00	NB		DRIVEWAY RT	18	APRON & SIDEWALK
0010	28+42.00	NB		DRIVEWAY RT	38	
0010	28+67.00	NB		DRIVEWAY RT	16	APRON & SIDEWALK
0010	29+74	NB		DRIVEWAY LT	41	APRON & SIDEWALK
0010	30+10.00	NB		DRIVEWAY RT	28	
0010	30+75.00	NB		DRIVEWAY RT	16	APRON & SIDEWALK
0010	31+41.00	NB		DRIVEWAY LT	36	APRON & SIDEWALK
0010	32+34.00	NB		DRIVEWAY RT	17	APRON & SIDEWALK
0010	32+88.00	NB		DRIVEWAY RT	21	
0010	32+99.00	NB		DRIVEWAY LT	27	
0010	33+41.00	NB		DRIVEWAY RT	27	APRON & SIDEWALK
0010	33+95.00	NB		DRIVEWAY LT	24	APRON & SIDEWALK
0010	34+31.00	NB		DRIVEWAY RT	20	APRON & SIDEWALK
0010	34+73	NB		DRIVEWAY LT	29	APRON & SIDEWALK
0010	34+97.00	NB		DRIVEWAY RT	15	APRON & SIDEWALK
0010	35+50.00	NB		DRIVEWAY RT	16	APRON & SIDEWALK
0010	37+98.00	NB		DRIVEWAY LT	49	
0010	38+72.00	NB		DRIVEWAY LT	32	
0010	39+13.00	NB		DRIVEWAY RT	26	
0010	41+34.00	NB		DRIVEWAY LT	19	APRON & SIDEWALK
0010	41+89.00	NB		DRIVEWAY RT	26	
0010	42+68.00	NB		DRIVEWAY RT	15	APRON & SIDEWALK
0010	43+25.00	NB		DRIVEWAY LT	28	APRON & SIDEWALK
0010	43+54.00	NB		DRIVEWAY RT	29	
0010	44+69.00	NB		DRIVEWAY RT	19	APRON & SIDEWALK
0010	46+35.00	NB		DRIVEWAY RT	36	APRON & SIDEWALK
0010	46+55.00	NB		DRIVEWAY LT	22	APRON & SIDEWALK
0010	47+18.00	NB		DRIVEWAY RT	22	APRON & SIDEWALK
0010	47+48.00	NB		DRIVEWAY RT	15	APRON & SIDEWALK
0010	47+69.00	NB		DRIVEWAY LT	41	APRON & SIDEWALK
0010	48+20.00	NB		DRIVEWAY LT	90	
0010	48+31.00	NB		DRIVEWAY RT	22	APRON & SIDEWALK
0010	48+40.00 NB	-	48+98.00 NB	PARKING LOT RT	52	
0010	48+95.00	NB		DRIVEWAY LT	72	APRON & SIDEWALK
PROJECT 3670-01-71				**TOTAL 0010**	**1,346**	

CATEGORY	STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	REMARKS
STH 89				
0010	3+95.00	NB	2	AVALON RD SW QUAD CURB & GUTTER
0010	4+26.00	NB	2	AVALON RD NW CURB & GUTTER
0010	18+55.00	NB	2	WATERLOO ST SE QUAD CURB & GUTTER
0010	18+82.00	NB	2	WATERLOO ST NE QUAD CURB & GUTTER
0010	33+83.00	NB	2	DRIVEWAY CURB & GUTTER LT
0010	34+05.00	NB	2	DRIVEWAY CURB & GUTTER LT
0010	36+37.00	NB	2	FOLSOM ST SE QUAD CURB & GUTTER
0010	36+72+00	NB	2	FOLSOM ST NE QUAD CURB & GUTTER
0010	40+18.00	NB	2	POET ST SE QUAD CURB & GUTTER
0010	40+52.00	NB	2	POET ST NE QUAD CURB & GUTTER
STH 73				
0010	69+55.00	EB	4	STH 73 CURB & GUTTER LT & RT
0010	70+44.00	EB	4	STH 73 CURB & GUTTER LT & RT
PROJECT 3670-01-71	**TOTAL 0010**		**28**	

HMA PAVEMENT SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	REMARKS
STH 89							
0010	2+93	-	3+64	NB	12	56	MAINLINE AND SHOULDER
0010	3+64	-	4+60	NB	19	85	MAINLINE AND SHOULDER
0010	4+60	-	5+35	NB	15	69	MAINLINE AND SHOULDER
0010	5+35	-	17+40	NB	228	1,066	MAINLINE AND SHOULDER
0010	17+40	-	18+15	NB	16	74	MAINLINE AND SHOULDER
0010	18+15	-	19+05	NB	18	84	MAINLINE AND SHOULDER
0010	19+05	-	19+26	NB	5	21	MAINLINE AND SHOULDER
0010	19+26	-	26+09	NB	99	463	DRIVING LANES AND PARTIAL PARKING
0010	19+26	-	26+09	NB	46	214	PARKING LANES
0010	26+09	-	26+99	NB	19	89	MAINLINE AND SHOULDER
0010	26+99	-	35+88	NB	129	601	DRIVING LANES AND PARTIAL PARKING
0010	26+99	-	35+88	NB	60	278	PARKING LANES
0010	35+88	-	37+19	NB	28	130	MAINLINE AND SHOULDER
0010	37+19	-	39+72	NB	37	172	DRIVING LANES AND PARTIAL PARKING
0010	37+19	-	39+72	NB	17	79	PARKING LANES
0010	39+72	-	40+88	NB	25	115	MAINLINE AND SHOULDER
0010	40+88	-	43+80	NB	43	198	DRIVING LANES AND PARTIAL PARKING
0010	40+88	-	43+80	NB	20	92	PARKING LANES
0010	43+80	-	49+68	NB	125	581	MAINLINE AND SHOULDER
SIDEROADS AND INTERSECTIONS							
0010	AVALON ROAD				9	40	
0010	WATERLOO STREET				12	56	
0010	FRONTAGE ROAD				10	43	
0010	FOLSOM STREET				16	74	
0010	POET STREET				14	63	
0010	STH 73				27	125	
			PROJECT 3670-01-71 TOTAL 0010		**1,049**	**4,868**	
PROJECT 3670-01-72							
CATEGORY							
0010					--	139	
0020					--	43	
			PROJECT 3670-01-72 TOTAL		**0**	**182**	
			PROJECT TOTAL		**1049**	**5050**	

CATEGORY	STATION	TO	STATION	LOCATION	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	REMARKS
PROJECT 3670-01-71						
0010	3+65.56	-	4+53.12	RT	28	
0010	8+67.40	-	9+56.33	LT	36	
0010	13+65.64	-	14+42.02	RT	31	
0010	14+04.34	-	15+15.36	LT	31	
0010	22+21.75	-	22+57.86	LT	26	
0010	26+18.31	-	26+54.79	LT	9	
0010	26+56.44	-	26+73.44	RT	4	DRIVEWAY ON FRONTAGE RD
0010	26+87.89	-	27+05.89	RT	6	
0010	27+63.79	-	27+83.79	RT	4	
0010	29+52.86	-	29+93.86	LT	10	
0010	30+66.41	-	30+84.41	RT	5	
0010	31+23.42	-	31+59.42	LT	4	
0010	32+24.19	-	32+43.19	RT	2	
0010	33+27.51	-	33+55.51	RT	3	
0010	33+80.96	-	34+06.96	LT	3	
0010	34+22.42	-	34+44.42	RT	7	
0010	34+58.50	-	34+88.45	LT	7	
0010	34+87.96	-	35+05.96	RT	3	
0010	42+58.57	-	42+76.57	RT	2	
0010	42+98.36	-	43+40.45	LT	5	DRIVEWAY & PARKING LOT
0010	44+58.28	-	44+79.28	RT	4	
0010	46+17.61	-	46+51.69	RT	8	
0010	47+09.23	-	47+31.54	RT	3	
0010	47+38.37	-	47+56.37	RT	2	
0010	48+18.66	-	48+42.66	RT	3	
0010	48+74.52	-	49+40.11	LT	9	PARKING LOT
0010	48+97.82	-	49+80.55	RT	18	PARKING LOT
			PROJECT 3670-01-71 TOTAL 0010		**273**	
PROJECT 3670-01-72						
CATEGORY						
0010					5	
0020					5	
			PROJECT 3670-01-72 TOTAL		**10**	
			PROJECT TOTAL		**283**	

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CULVERT SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	521.1717 APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS STEEL 17X13-INCH 6 TO 1 EACH	521.3717 PIPE ARCH CORRUGATED STEEL 17X13-INCH LF	522.0412 CULVERT PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	SPV.0090.01 SPECIAL (01. SMOOTH LINED CMP CULVERT PIPE ARCH, 66-INCH X 51-INCH) LF	SPV.0090.02 SPECIAL (02. SMOOTH LINED CMP CULVERT PIPE ARCH, 53-INCH X 41-INCH) LF
0010	8+87	-	9+37	DRIVEWAY LT	--	--	100	4	--	--	--
0010	13+88	-	14+25	DRIVEWAY RT	2	38	--	--	--	--	--
0010	42+50	-	42+85	2ND WARD CREEK	--	--	--	--	1	95	--
0010	42+58	-	42+92	2ND WARD CREEK	--	--	--	--	1	95	--
0010	42+64	-	42+99	2ND WARD CREEK	--	--	--	--	1	--	95
	PROJECT 3670-01-71			**TOTAL 0010**	**2**	**38**	**100**	**4**	**3**	**190**	**95**

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STORM ENDWALL SUMMARY

CATEGORY	STATION	TO	STRUCTURE	OFFSET	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.2619 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH EACH	522.2629 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH EACH	611.9800.S PIPE GRATES EACH	* 650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0010	8+60	-	12A	54.0' LT	1	--	--	--	1
0010	12+80	-	14B	26.1' RT	--	--	1	1	1
0010	14+86	-	20A	49.6' LT	1	--	--	--	1
0010	15+75	-	20G	100.3' RT	--	1	--	--	1
0010	16+30	-	20E	61.4' RT	--	--	1	--	1
	PROJECT 3670-01-71			**TOTAL 0010**	**2**	**1**	**2**	**1**	**5**

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN THE PLAN

CURB AND GUTTER/SIDEWALK SUMMARY

CATEGORY	STATION		TO	STATION		LOCATION	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0415 CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	REMARKS
0010	3+64	NB	-	9+52	AV	LT	46	--	--	46	AVALON RD SW QUAD
0010	9+52	AV	-	4+60	NB	LT	45	--	136	45	AVALON RD NW QUAD
0010	4+60	NB	-	8+55	NB	LT	396	--	--	396	
0010	8+55	NB	-	8+97	NB	LT	42	--	213	42	
0010	8+97	NB	-	9+27	NB	LT	30	--	--	30	DRIVEWAY
0010	9+27	NB	-	9+42	NB	LT	15	--	78	15	
0010	9+42	NB	-	14+28	NB	LT	487	--	--	487	
0010	14+28	NB	-	14+38	NB	LT	10	--	50	10	
0010	14+38	NB	-	14+68	NB	LT	31	--	--	31	DRIVEWAY
0010	14+68	NB	-	18+15	NB	LT	347	--	1,735	347	
0010	18+15	NB	-	22+23	NB	LT	408	--	2,064	408	
0010	18+15	NB	-	30+81	WAT	RT	87	--	--	87	WATERLOO ST SE QUAD
0010	30+82	WAT	-	19+05	NB	RT	70	--	--	70	WATERLOO ST NE QUAD
0010	19+05	NB	-	26+29	NB	RT	725	--	3,704	725	
0010	22+23	NB	-	22+55	NB	LT	32	--	--	32	DRIVEWAY
0010	22+55	NB	-	26+17	NB	LT	363	--	1,812	363	
0010	26+17	NB	-	26+48	NB	LT	31	--	--	31	DRIVEWAY
0010	26+29	NB	-	39+33	FR	RT	24	--	--	24	FRONTAGE RD SE QUAD
0010	26+48	NB	-	29+56	NB	LT	308	--	1,737	308	
0010	39+62	FR	-	26+79	NB	RT	27	--	--	27	FRONTAGE RD NE QUAD
0010	26+79	NB	-	26+91	NB	RT	12	--	76	12	
0010	26+91	NB	-	27+03	NB	RT	12	--	--	12	DRIVEWAY
0010	27+03	NB	-	27+67	NB	RT	64	--	320	64	
0010	27+67	NB	-	27+81	NB	RT	14	--	--	14	DRIVEWAY
0010	27+81	NB	-	28+34	NB	RT	54	--	268	54	
0010	28+34	NB	-	28+50	NB	RT	16	--	--	16	DRIVEWAY
0010	28+50	NB	-	28+62	NB	RT	12	--	58	12	
0010	28+62	NB	-	28+74	NB	RT	12	--	--	12	DRIVEWAY
0010	28+74	NB	-	30+04	NB	RT	131	--	694	131	
0010	29+56	NB	-	29+91	NB	LT	35	--	--	35	DRIVEWAY
0010	29+91	NB	-	31+26	NB	LT	136	--	678	136	
0010	30+04	NB	-	30+16	NB	RT	12	--	--	12	DRIVEWAY
0010	30+16	NB	-	30+69	NB	RT	54	--	280	54	
0010	30+69	NB	-	30+81	NB	RT	12	--	--	12	DRIVEWAY
0010	30+81	NB	-	32+27	NB	RT	146	--	809	146	
0010	31+26	NB	-	31+56	NB	LT	30	--	--	30	DRIVEWAY
0010	31+56	NB	-	32+92	NB	LT	136	--	677	136	
0010	32+27	NB	-	32+40	NB	RT	13	--	--	13	DRIVEWAY
0010	32+40	NB	-	32+83	NB	RT	43	--	244	43	
0010	32+83	NB	-	32+95	NB	RT	12	--	--	12	DRIVEWAY
0010	32+92	NB	-	33+07	NB	LT	15	--	--	15	DRIVEWAY
0010	32+95	NB	-	33+31	NB	RT	36	--	177	36	
0010	33+07	NB	-	33+84	NB	LT	78	--	474	78	
0010	33+31	NB	-	33+53	NB	RT	22	--	--	22	DRIVEWAY
0010	33+53	NB	-	34+25	NB	RT	73	--	365	73	
						PAGE TOTAL	**4,704**	**0**	**16,649**	**4,704**	

CURB AND GUTTER/SIDEWALK SUMMARY CONTINUED

CATEGORY	STATION		TO	STATION		LOCATION	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0415 CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	REMARKS
0010	33+84	NB	-	34+04	NB	LT	20	--	--	20	DRIVEWAY
0010	34+04	NB	-	34+61	NB	LT	58	--	338	58	
0010	34+25	NB	-	34+41	NB	RT	16	--	--	16	DRIVEWAY
0010	34+41	NB	-	34+91	NB	RT	50	--	248	50	
0010	34+61	NB	-	34+86	NB	LT	25	--	--	25	DRIVEWAY
0010	34+86	NB	-	36+03	NB	LT	118	--	622	118	
0010	34+91	NB	-	35+03	NB	RT	12	--	--	12	DRIVEWAY
0010	35+03	NB	-	35+44	NB	RT	41	--	205	41	
0010	35+44	NB	-	35+56	NB	RT	12	--	--	12	DRIVEWAY
0010	35+56	NB	-	36+09	NB	RT	53	--	264	53	
0010	36+03	NB	-	49+47	FO	LT	47	--	309	47	FOLSOM ST SW QUAD
0010	36+09	NB	-	50+51	FO	RT	48	--	198	48	FOLSOM ST SE QUAD
0010	49+47	FO	-	36+93	NB	LT	49	--	153	49	FOLSOM ST NW QUAD
0010	50+51	FO	-	37+01	NB	RT	46	--	192	46	FOLSOM ST NE QUAD
0010	36+93	NB	-	37+84	NB	LT	91	--	528	91	
0010	37+01	NB	-	39+08	NB	RT	207	--	1,057	207	
0010	37+84	NB	-	38+12	NB	LT	29	--	--	29	DRIVEWAY
0010	38+12	NB	-	38+64	NB	LT	52	--	259	52	
0010	38+64	NB	-	38+82	NB	LT	18	--	--	18	DRIVEWAY
0010	38+82	NB	-	39+89	NB	LT	108	--	573	108	
0010	39+08	NB	-	39+22	NB	RT	14	--	--	14	DRIVEWAY
0010	39+22	NB	-	39+89	NB	RT	68	--	379	68	
0010	39+89	NB	-	60+49	PO	RT	46	--	262	46	POET ST SE QUAD
0010	39+89	NB	-	59+48	PO	LT	47	--	315	47	POET ST SW QUAD
0010	59+48	PO	-	40+70	NB	LT	48	--	168	48	POET ST NW QUAD
0010	60+49	PO	-	40+81	NB	RT	44	--	193	44	POET ST NE QUAD
0010	40+70	NB	-	41+27	NB	LT	58	--	327	58	
0010	40+81	NB	-	41+83	NB	RT	103	--	511	103	
0010	41+27	NB	-	41+42	NB	LT	15	--	--	15	DRIVEWAY
0010	41+42	NB	-	43+14	NB	LT	173	--	863	173	
0010	41+83	NB	-	41+97	NB	RT	14	--	--	14	DRIVEWAY
0010	41+97	NB	-	42+62	NB	RT	65	--	356	65	
0010	42+62	NB	-	42+74	NB	RT	12	--	--	12	DRIVEWAY
0010	42+74	NB	-	43+46	NB	RT	73	--	365	73	
0010	43+14	NB	-	43+37	NB	LT	23	--	--	23	DRIVEWAY
0010	43+37	NB	-	46+35	NB	LT	298	--	1,490	298	
0010	43+46	NB	-	43+62	NB	RT	16	--	--	16	DRIVEWAY
0010	43+62	NB	-	44+61	NB	RT	99	--	495	99	
0010	44+61	NB	-	44+76	NB	RT	15	--	--	15	DRIVEWAY
0010	44+76	NB	-	46+21	NB	RT	145	--	764	145	
0010	46+21	NB	-	46+49	NB	RT	29	--	--	29	DRIVEWAY
0010	46+35	NB	-	46+74	NB	LT	40	--	--	40	DRIVEWAY
0010	46+49	NB	-	47+12	NB	RT	64	--	362	64	
0010	46+74	NB	-	47+50	NB	LT	76	--	379	76	
0010	47+12	NB	-	47+29	NB	RT	17	--	--	17	DRIVEWAY
						PAGE TOTAL	**2,702**	**0**	**12,175**	**2,702**	

CURB AND GUTTER/SIDEWALK SUMMARY CONTINUED

CATEGORY	STATION		TO	STATION		LOCATION	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0415 CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	REMARKS
0010	47+29	NB	-	47+41	NB	RT	13	--	65	13	
0010	47+41	NB	-	47+53	NB	RT	12	--	--	12	DRIVEWAY
0010	47+50	NB	-	47+85	NB	LT	35	--	--	35	DRIVEWAY
0010	47+53	NB	-	48+22	NB	RT	69	--	372	69	
0010	47+85	NB	-	47+95	NB	LT	10	--	50	10	
0010	47+95	NB	-	48+41	NB	LT	47	--	--	47	DRIVEWAY
0010	48+22	NB	-	48+40	NB	RT	18	--	--	18	DRIVEWAY
0010	48+40	NB	-	49+68	NB	RT	128	--	640	128	
0010	48+41	NB	-	48+81	NB	LT	40	--	247	40	
0010	48+81	NB	-	49+16	NB	LT	35	--	--	35	DRIVEWAY
0010	49+16	NB	-	49+67	NB	LT	52	--	259	52	
0010	49+67	NB	-	69+55	EB	LT	38	--	181	38	STH 73 SW QUAD
0010	49+68	NB	-	70+45	EB	RT	37	--	216	37	STH 73 SE QUAD
0010	69+55	EB		70+45	EB	LT	-	92	533	-	STH 73 LT
						PAGE TOTAL	**534**	**92**	**2,563**	**534**	
				PROJECT 3670-01-71		**TOTAL 0010**	**7,940**	**92**	**31,387**	**7,940**	

CURB RAMP SUMMARY

CATEGORY	LOCATION	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	REMARKS
0010	WATERLOO ST NW QUAD	--	10	--	1	CURB RAMP 1
0010	WATERLOO ST NE QUAD	--	10	--	1	CURB RAMP 2
0010	FRONTAGE RD SE QUAD	6	10	--	1	CURB RAMP 3
0010	FRONTAGE RD NE QUAD	--	10	--	1	CURB RAMP 4
0010	SCHOOL CROSSING	--	10	--	1	CURB RAMP 5
0010	FOLSOM ST SW QUAD	--	10	15.6	2	CURB RAMP 6
0010	FOLSOM ST SE QUAD	--	10	15.6	2	CURB RAMP 7
0010	FOLSOM ST NW QUAD	--	10	15.6	2	CURB RAMP 8
0010	FOLSOM ST NE QUAD	--	10	15.6	2	CURB RAMP 9
0010	POET ST SW QUAD	--	10	15.6	2	CURB RAMP 10
0010	POET ST SE QUAD	--	20	--	2	CURB RAMP 11
0010	POET NW QUAD	--	10	15.6	2	CURB RAMP 12
0010	POET NE QUAD	--	20	--	2	CURB RAMP 13
0010	STH73 SW QUAD	--	10	--	1	CURB RAMP 14
0010	STH 73 SE QUAD	--	10	--	1	CURB RAMP 15
0010	STH 7S NW QUAD	--	10	--	1	CURB RAMP 16
0010	STH 73 NE QUAD	--	10	--	1	CURB RAMP 17
PROJECT 3670-01-71	**TOTAL 0010**	**6**	**190**	**93.6**	**25**	

STORM SEWER PIPE SUMMARY

CATEGORY	STRUCTURE	TO	STRUCTURE	LOCATION	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-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	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.2419 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH LF	608.2424 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	608.2429 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF	INLET ELEV	DIS ELEV	SLOPE FT/FT
0010	10A	-	10B	NB	--	61	--	--	--	--	--	--	836.53	836.35	-0.003
0010	10B	-	10C	NB	--	24	--	--	--	--	--	--	836.35	836.28	-0.003
0010	10C	-	10D	NB	--	--	52	--	--	--	--	--	836.03	835.87	-0.003
0010	10D	-	10	NB	--	--	26	--	--	--	--	--	835.87	835.79	-0.003
0010	10	-	11	NB	--	--	--	200	--	--	--	--	835.29	834.69	-0.003
0010	11A	-	11B	NB	--	--	--	19	--	--	--	--	834.81	834.72	-0.005
0010	11B	-	11	NB	--	--	--	7	--	--	--	--	834.72	834.69	-0.004
0010	11	-	12	NB	--	--	--	200	--	--	--	--	834.69	834.09	-0.003
0010	12A	-	12B	NB	--	22	--	--	--	--	--	--	836.79	835.08	-0.078
0010	12B	-	12	NB	--	--	--	20	--	--	--	--	834.33	834.09	-0.012
0010	12	-	13	NB	--	--	--	--	--	--	--	170	833.67	833.16	-0.003
0010	13A	-	13	NB	--	11	--	--	--	--	--	--	834.45	834.33	-0.011
0010	13	-	14	NB	--	--	--	--	--	--	--	250	833.16	831.91	-0.005
0010	14A	-	14	NB	--	--	25	--	--	--	--	--	832.89	832.83	-0.002
0010	14	-	14B	NB	--	--	--	--	--	--	--	34	831.91	831.80	-0.003
0010	16	-	14	NB	--	--	--	--	--	--	110	--	832.24	831.91	-0.003
0010	16B	-	16A	NB	--	10	--	--	--	--	--	--	832.29	832.26	-0.003
0010	EXIST	-	16A	NB	--	--	--	--	--	--	22	--	833.35	832.26	-0.050
0010	16A	-	16	NB	--	--	--	--	--	--	11	--	832.26	832.24	-0.002
0010	20A	-	20B	NB	--	17	--	--	--	--	--	--	835.45	834.84	-0.036
0010	18A	-	20B	NB	--	15	--	--	--	--	--	--	833.75	833.68	-0.005
0010	20B	-	20C	NB	--	--	61	--	--	--	--	--	833.68	833.43	-0.004
0010	20F	-	20G	NB	--	--	--	--	--	20	--	--	829.50	829.40	-0.005
0010	20C	-	20D	NB	--	--	--	78	--	--	--	--	833.43	833.01	-0.005
0010	20D	-	20	NB	--	--	--	13	--	--	--	--	833.01	832.97	-0.003
0010	20	-	20E	NB	--	--	--	--	--	--	--	67	830.67	830.00	-0.010
0010	21	-	20	NB	--	--	--	--	--	--	--	185	833.89	832.97	-0.005
0010	21A	-	21B	NB	--	--	20	--	--	--	--	--	834.96	834.86	-0.005
0010	21B	-	21	NB	--	--	9	--	--	--	--	--	834.86	834.81	-0.006
0010	22	-	21	NB	--	--	--	--	--	--	--	107	834.43	833.89	-0.005
0010	22A	-	22	NB	--	9	--	--	--	--	--	--	835.77	835.60	-0.019
0010	22B	-	22	NB	--	33	--	--	--	--	--	--	836.25	835.60	-0.020
0010	22.1	-	22	NB	--	--	--	--	114	--	--	--	835.57	834.43	-0.010
0010	22.1A	-	22.1	NB	--	9	--	--	--	--	--	--	836.99	836.82	-0.019
0010	23	-	22.1	NB	--	--	--	114	--	--	--	--	837.21	836.07	-0.010
0010	23A	-	23	NB	--	9	--	--	--	--	--	--	838.13	837.96	-0.019
0010	23B	-	23	NB	--	33	--	--	--	--	--	--	838.61	837.96	-0.020
0010	23.1	-	23	NB	--	--	--	148	--	--	--	--	841.18	837.21	-0.027
0010	23.1A	-	23.1	NB	--	49	--	--	--	--	--	--	842.41	841.93	-0.010
				PAGE TOTAL	**0**	**302**	**193**	**799**	**114**	**20**	**143**	**813**			

STORM SEWER PIPE SUMMARY CONTINUED

CATEGORY	STRUCTURE	TO	STRUCTURE	LOCATION	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-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	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.2419 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH LF	608.2424 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	608.2429 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF	INLET ELEV	DIS ELEV	SLOPE FT/FT
0010	24	-	23.1	NB	-	-	-	152	-	-	-	-	845.15	841.18	-0.026
0010	24A	-	24	NB	-	9	-	-	-	-	-	-	846.07	845.90	-0.019
0010	24B	-	24	NB	-	33	-	-	-	-	-	-	846.55	845.90	-0.020
0010	25	-	24	NB	-	-	-	231	-	-	-	-	847.46	845.15	-0.010
0010	25A	-	25	NB	-	9	-	-	-	-	-	-	848.38	848.21	-0.019
0010	25B	-	25	NB	-	33	-	-	-	-	-	-	848.86	848.21	-0.020
0010	26	-	25	NB	-	-	-	99	-	-	-	-	848.26	847.46	-0.008
0010	26A	-	26	NB	-	9	-	-	-	-	-	-	849.18	849.01	-0.019
0010	30B	-	30	NB	-	33	-	-	-	-	-	-	848.78	848.34	-0.013
0010	30A	-	30	NB	-	9	-	-	-	-	-	-	848.38	848.34	-0.004
0010	30	-	31	NB	-	-	-	167	-	-	-	-	847.59	846.76	-0.005
0010	31A	-	31	NB	-	50	-	-	-	-	-	-	847.66	847.51	-0.003
0010	31	-	32	NB	-	-	-	165	-	-	-	-	846.76	845.93	-0.005
0010	32A	-	32	NB	-	9	-	-	-	-	-	-	846.96	846.68	-0.031
0010	32B	-	32	NB	-	33	-	-	-	-	-	-	847.01	846.68	-0.010
0010	32	-	33	NB	-	-	-	374	-	-	-	-	845.93	835.49	-0.028
0010	33A	-	33	NB	-	9	-	-	-	-	-	-	836.28	836.24	-0.004
0010	33B	-	33	NB	-	33	-	-	-	-	-	-	836.40	836.24	-0.005
0010	33	-	34	NB	-	-	-	53	-	-	-	-	835.49	834.39	-0.021
0010	34B	-	34A	NB	-	36	-	-	-	-	-	-	835.60	835.42	-0.005
0010	34A	-	34	NB	-	58	-	-	-	-	-	-	835.42	835.14	-0.005
0010	34	-	35	NB	-	-	-	226	-	-	-	-	834.39	832.11	-0.010
0010	35	-	36	NB	-	-	-	27	-	-	-	-	832.11	831.84	-0.010
0010	36	-	37	NB	-	-	-	38	-	-	-	-	831.84	831.28	-0.015
0010	41A	-	41	NB	-	9	-	-	-	-	-	-	832.73	832.90	0.019
0010	41	-	40	NB	-	-	-	63	-	-	-	-	831.98	830.00	-0.031
0010	42	-	41	NB	-	-	-	55	-	-	-	-	832.56	831.98	-0.011
0010	42A	-	42	NB	-	9	-	-	-	-	-	-	833.48	833.31	-0.019
0010	42C	-	42B	NB	27	-	-	-	-	-	-	-	833.74	833.66	-0.003
0010	42B	-	42	NB	-	33	-	-	-	-	-	-	833.41	833.31	-0.003
0010	43	-	42	NB	-	-	-	65	-	-	-	-	832.76	832.56	-0.003
0010	43A	-	43B	NB	-	14	-	-	-	-	-	-	833.62	833.55	-0.005
0010	43B	-	43	NB	-	9	-	-	-	-	-	-	833.55	833.51	-0.004
0010	43C	-	43	NB	-	33	-	-	-	-	-	-	833.67	833.51	-0.005
0010	44	-	43	NB	-	-	-	113	-	-	-	-	833.10	832.76	-0.003
0010	44A	-	44	NB	-	13	-	-	-	-	-	-	834.11	833.85	-0.020
0010	45	-	44	NB	-	-	-	138	-	-	-	-	833.51	833.10	-0.003
0010	45A	-	45	NB	-	13	-	-	-	-	-	-	834.52	834.26	-0.020
0010	45B	-	45	NB	-	28	-	-	-	-	-	-	835.09	834.26	-0.030
0010	46	-	45	NB	-	-	-	75	-	-	-	-	834.26	833.51	-0.010
0010	47	-	46	NB	-	-	-	204	-	-	-	-	841.15	834.26	-0.034
0010	47A	-	47	NB	-	40	-	-	-	-	-	-	843.26	841.88	-0.034
				PAGE TOTAL	**27**	**564**	**0**	**2,245**	**0**	**0**	**0**	**0**			
			PROJECT 3670-01-71	**TOTAL 0010**	**27**	**866**	**193**	**3,044**	**114**	**20**	**143**	**813**			

STORM SEWER INLET SUMMARY

CATEGORY	STATION	OFFSET	STRUCTURE	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.1006 CATCH BASINS 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	* 650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM ELEV	INVERT ELEV	** STRUCTURE HEIGHT
0010	3+40	27.7' R	10A	--	--	--	--	1	--	--	--	--	1	--	1	838.69	1.16	0.16
0010	3+63	28.1' L	10B	--	--	--	--	2	--	--	--	--	--	1	1	839.09	1.74	0.74
0010	3+87	30.2' L	10C	--	--	--	1	--	--	--	1	--	--	--	1	840.13	3.10	2.10
0010	4+40	27.4' L	10D	--	--	--	1	--	--	--	1	--	--	--	1	840.04	3.17	2.17
0010	6+60	18.5' L	11B	--	--	1	--	--	--	--	1	--	--	--	1	839.46	3.74	2.74
0010	6+60	37.0' L	11A	--	--	--	--	2	--	--	--	--	--	1	1	837.44	1.63	0.63
0010	8+60	32.0' L	12B	--	--	--	--	2	--	--	--	--	--	1	1	836.73	1.4	0.4
0010	10+30	18.5' L	13A	--	--	1	--	--	--	--	--	1	--	--	1	837.61	2.16	1.16
0010	12+80	33.0' L	14A	--	--	--	--	2	--	--	--	--	--	1	1	836.00	2.11	1.11
0010	13+80	18.5' L	16B	--	--	--	1	--	--	--	1	--	--	--	1	835.97	2.68	1.68
0010	13+90	18.5' L	16A	--	--	1	--	--	--	1	--	--	--	--	1	835.97	2.71	1.71
0010	14+86	18.5' L	18A	--	--	1	--	--	--	--	--	1	--	--	1	836.47	1.72	0.72
0010	14+86	33.0' L	20B	--	--	--	--	1	--	--	--	--	1	--	1	836.85	2.17	1.17
0010	15+50	32.1' L	20C	--	--	--	--	2	--	--	--	--	--	1	1	836.54	2.11	1.11
0010	15+91	91.2' R	20F	--	--	--	--	2	--	--	--	--	--	1	1	831.60	1.1	0.1
0010	16+30	18.5' L	20D	--	--	1	--	--	1	--	--	--	--	--	1	837.40	3.39	2.39
0010	18+15	20.5' L	21B	--	--	1	--	--	--	--	--	1	--	--	1	838.57	2.71	1.71
0010	18+15	40.8' L	21A	--	--	--	--	1	--	--	--	--	1	--	1	837.24	1.28	0.28
0010	19+22	20.5' R	22B	--	--	1	--	--	--	--	--	1	--	--	1	839.26	2.01	1.01
0010	19+22	20.5' L	22A	--	--	1	--	--	--	--	--	1	--	--	1	839.26	2.49	1.49
0010	20+36	20.5' L	22.1A	--	--	1	--	--	--	--	--	1	--	--	1	840.48	2.49	1.49
0010	21+50	20.5' R	23B	--	--	1	--	--	--	--	--	1	--	--	1	842.63	3.02	2.02
0010	21+50	20.5' L	23A	--	--	1	--	--	--	--	--	1	--	--	1	842.63	3.5	2.5
0010	22+98	36.7' R	23.1A	--	--	--	--	1	--	--	--	--	1	--	1	844.68	1.27	0.27
0010	24+50	20.5' R	24B	--	--	1	--	--	--	--	--	1	--	--	1	849.52	1.97	0.97
0010	24+50	20.5' L	24A	--	--	1	--	--	--	--	--	1	--	--	1	849.52	2.45	1.45
0010	26+81	20.5' R	25B	--	--	--	1	--	--	--	--	1	--	--	1	851.84	1.98	0.98
0010	26+81	20.5' L	25A	--	--	1	--	--	--	--	--	1	--	--	1	851.84	2.46	1.46
0010	27+80	20.5' L	26A	--	--	1	--	--	--	--	--	1	--	--	1	852.55	2.37	1.37
0010	32+65	20.5' R	30B	--	--	1	--	--	--	--	--	1	--	--	1	852.39	2.61	1.61
0010	32+65	20.5' L	30A	--	--	1	--	--	--	--	--	1	--	--	1	852.39	3.01	2.01
0010	34+32	37.6' R	31A	--	1	--	--	--	--	--	1	--	--	--	1	851.87	3.21	2.21
0010	35+97	20.5' R	32B	--	--	1	--	--	--	--	--	1	--	--	1	850.56	2.55	1.55
0010	35+97	20.5' L	32A	--	--	1	--	--	--	--	--	1	--	--	1	850.58	2.62	1.62
			PAGE TOTAL	**0**	**1**	**19**	**4**	**16**	**1**	**1**	**5**	**17**	**4**	**6**	**34**			

* ADDITIONAL QUANTITIES LOCATED ELSEWHERE IN THE PLAN
**STRUCTURE HEIGHT = RIM/GRATE ELEVATION - INVERT ELEVATION - CASTING HEIGHT - ADJUSTMENTS
CASTING HEIGHT 6-INCHES AND ADJUSTMENT IS 6-INCHES

3

STORM SEWER INLET SUMMARY CONTINUED

CATEGORY	STATION	OFFSET	STRUCTURE	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.1006 CATCH BASINS 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	* 650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM ELEV	INVERT ELEV	** STRUCTURE HEIGHT
0010	39+71	20.5' R	33B	--	--	1	--	--	--	--	--	1	--	--	1	840.37	2.97	1.97
0010	39+71	20.5' L	33A	--	--	1	--	--	--	--	--	1	--	--	1	840.34	3.06	2.06
0010	40+17	45.1' R	34A	--	--	--	1	--	1	--	--	--	--	--	1	838.96	2.54	1.54
0010	40+53	41.3' R	34B	--	--	--	1	--	--	--	1	--	--	--	1	838.62	2.02	1.02
0010	43+07	20.5' L	41A	--	--	1	--	--	--	--	--	1	--	--	1	837.07	3.34	2.34
0010	43+41	20.5' R	42C	--	--	1	--	--	--	--	--	1	--	--	1	836.95	2.21	1.21
0010	43+62	20.5' L	42A	--	--	--	1	--	--	--	--	1	--	--	1	836.93	2.45	1.45
0010	43+67	20.5' R	42B	--	--	--	1	--	--	--	1	--	--	--	1	836.93	2.52	1.52
0010	44+27	20.5' R	43C	--	--	1	--	--	--	--	--	1	--	--	1	837.13	2.46	1.46
0010	44+27	20.5' L	43B	--	--	1	--	--	--	--	--	1	--	--	1	837.13	2.58	1.58
0010	44+27	34.1' L	43A	1	--	--	--	--	--	--	1	--	--	--	1	837.59	2.97	1.97
0010	45+41	20.5' L	44A	--	--	1	--	--	--	--	--	1	--	--	1	837.70	2.59	1.59
0010	46+84	20.5' R	45B	--	--	1	--	--	--	--	--	1	--	--	1	838.89	2.8	1.8
0010	46+84 -	20.5' L	45A	--	--	1	--	--	--	--	--	1	--	--	1	838.41	2.89	1.89
0010	49+91	42.6' L	47A	--	--	1	--	--	--	--	1	--	--	--	1	847.78	3.52	2.52
		PAGE TOTAL		**1**	**0**	**10**	**4**	**0**	**1**	**0**	**4**	**10**	**0**	**0**	**15**			
		PROJECT 3670-01-71 TOTAL 0010		**1**	**1**	**29**	**8**	**16**	**2**	**1**	**9**	**27**	**4**	**6**	**49**			

* ADDITIONAL QUANTITIES LOCATED ELSEWHERE IN THE PLAN
**STRUCTURE HEIGHT = RIM/GRATE ELEVATION - INVERT ELEVATION - CASTING HEIGHT - ADJUSTMENTS
CASTING HEIGHT 6-INCHES AND ADJUSTMENT IS 6-INCHES

3

STORM SEWER STRUCTURE SUMMARY

CATEGORY	STATION	TO	OFFSET	STRUCTURE	611.0530 MANHOLE COVERS TYPE J EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	* 650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM ELEV	INVERT ELEV	** STRUCTURE HEIGHT
0010	4+60	-	12.0' L	10	1	--	1	--	--	1	840.46	835.29	4.17
0010	6+60		12.0' L	11	1	--	1	--	--	1	839.58	834.69	3.89
0010	8+60		12.0' L	12	1	--	--	1	--	1	838.58	833.67	3.91
0010	10+30		8.0' L	13	1	--	--	1	--	1	837.81	833.16	3.65
0010	12+80		8.0' L	14	1	--	--	--	1	1	836.56	831.91	3.65
0010	13+80		8.0' L	16	1	--	--	1	--	1	836.17	832.24	2.93
0010	16+30		6.0' L	20	1	--	--	1	--	1	837.64	830.67	5.97
0010	18+15		12.0' L	21	1	--	--	1	--	1	838.73	833.89	3.84
0010	19+22		12.0' L	22	1	--	--	1	--	1	839.42	834.43	3.99
0010	20+36		12.0' L	22.1	1	--	1	--	--	1	840.64	835.57	4.07
0010	21+50		12.0' L	23	1	--	1	--	--	1	842.79	837.21	4.58
0010	22+98		12.0' L	23.1	1	--	1	--	--	1	846.38	841.18	4.20
0010	24+50		12.0' L	24	1	--	1	--	--	1	849.68	845.15	3.53
0010	26+81		12.0' L	25	1	--	1	--	--	1	852.00	847.46	3.54
0010	27+80		12.0' L	26	1	--	1	--	--	1	852.71	848.26	3.45
0010	32+65		12.0' L	30	1	--	1	--	--	1	852.55	847.59	3.96
0010	34+32		12.0' L	31	1	--	1	--	--	1	851.55	846.76	3.79
0010	35+97		12.0' L	32	1	--	1	--	--	1	850.72	845.93	3.79
0010	39+71		12.0' L	33	1	--	1	--	--	1	840.53	835.49	4.04
0010	40+24		12.0' L	34	1	--	1	--	--	1	839.48	834.39	4.09
0010	42+50		12.0' L	35	1	--	1	--	--	1	837.52	832.11	4.41
0010	42+63		12.0' R	36	1	--	1	--	--	1	837.45	831.84	4.61
0010	42+79		47.0' R	37	--	--	--	--	--	1	--	831.28	N/A
0010	43+03		50.4' R	40	--	--	--	--	--	1	--	830.00	N/A
0010	43+07		12.0' L	41	1	--	1	--	--	1	837.23	831.98	4.25
0010	43+62		12.0' L	42	1	--	1	--	--	1	837.09	832.56	3.53
0010	44+27		12.0' L	43	1	--	1	--	--	1	837.29	832.76	3.53
0010	45+41	-	7.3' L	44	1	--	1	--	--	1	837.95	833.10	3.85
0010	46+84	-	7.3' L	45	1	--	1	--	--	1	838.67	833.51	4.16
0010	47+61	-	12.0' L	46	1	1	--	--	--	1	839.37	834.26	4.11
0010	49+65	-	12.0' L	47	1	1	--	--	--	1	846.54	841.15	4.39
PROJECT 3670-01-71	**TOTAL 0010**				**29**	**2**	**20**	**6**	**1**	**31**			

* ADDITIONAL QUANTITIES LOCATED ELSEWHERE IN THE PLAN
**STRUCTURE HEIGHT = RIM/GRATE ELEVATION - INVERT ELEVATION - CASTING HEIGHT - ADJUSTMENTS
CASTING HEIGHT 6-INCHES AND ADJUSTMENT IS 6-INCHES

ADJUSTING MANHOLE SUMMARY

CATEGORY	STATION	TO	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH
0010	40+32	-	RT	1	1
0010	42+93	-	RT	1	1
0010	43+12	-	RT	1	1
0010	48+12	-	RT	1	1
PROJECT 3670-01-71 TOTAL 0010				**4**	**4**

CATEGORY	LOCATION	618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) (01. 3670-01-71) EACH
0010	PROJECT 3670-01-71	1
PROJECT 3670-01-71	**TOTAL 0010**	**1**

CATEGORY	LOCATION	619.1000 MOBILIZATION EACH
PROJECT 3670-01-71		
0010	PROJECT 3670-01-71	0.7
PROJECT 3670-01-71	**TOTAL 0010**	**0.7**
PROJECT 3670-01-72		
0010		0.1
0020		0.2
	PROJECT 3670-01-72 TOTAL	**0.3**
	PROJECT TOTAL	**1**

RESTORATION SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
PROJECT 3670-01-71												
0010	2+47	-	3+91	LT	239	239	0.151	4.3	3.3	6	--	--
0010	2+93		3+87	RT	167	167	0.105	3.0	2.3	4	--	--
0010	4+16	-	13+98	RT	1,037	1,037	0.653	18.7	14.0	24	--	--
0010	4+33	-	8+98	LT	1,103	1,103	0.695	19.9	14.9	25	--	--
0010	9+28	-	14+40	LT	1,395	1,395	0.879	25.1	18.9	32	--	--
0010	14+23	-	18+54	RT	2,218	2,218	1.398	40.0	30.0	50	--	--
0010	14+70	-	22+40	LT	1,829	1,829	1.152	33.0	24.7	--	5	223
0010	18+76	-	26+35	RT	643	643	0.405	11.6	8.7	--	10	402
0010	22+55	-	36+30	LT	--	--	--	--	--	--	25	1,082
0010	26+30	-	36+36	RT	--	--	--	--	--	--	19	835
0010	36+65	-	40+17	LT	--	--	--	--	--	--	7	268
0010	36+73	-	40+17	RT	--	--	--	--	--	--	8	324
0010	40+42	-	49+90	LT	59	59	0.038	1.1	0.8	--	16	709
0010	40+53	-	49+90	RT	98	98	0.062	1.8	1.4	--	18	762
STH 73												
0010	69+55		70+45	LT	--	--	--	--	--	--	2	72
UNDISTRIBUTED					879	879	0.554	15.9	11.9	20	11	468
PROJECT 3670-01-71 TOTAL 0010					**9,667**	**9,667**	**6.092**	**174.4**	**130.9**	**161**	**121**	**5,145**
PROJECT 3670-01-72												
0010					153	153	0.100	4.0	--	--	--	--
0020					153	153	0.100	4.0	--	--	--	--
PROJECT 3670-01-72 TOTAL					**306**	**306**	**0.200**	**8.0**	**0**	**0**	**0**	**0**
PROJECT TOTAL					**9973**	**9973**	**6.292**	**182.4**	**130.9**	**161**	**121**	**5145**

EROSION CONTROL SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	REMARKS
0010	3+40			RT	--	--	--	1	--	--	--	--	--	
0010	3+63			LT	--	--	--	1	--	--	--	--	--	
0010	3+87			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	4+14	-	13+99	RT	--	1,022	1,022	--	--	--	--	--	--	
0010	4+40			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	5+20			LT	--	--	--	--	--	--	--	2	--	PIPE CHECK EXISTING PIPE
0010	6+60			LT	--	--	--	2	--	1	--	--	--	
0010	8+60			LT	--	--	--	1	--	--	--	8	--	EXIST AND NEW PIPE
0010	8+80			LT	--	--	--	--	--	--	--	6	--	EXISTING PIPE
0010	10+30			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	11+50			LT	--	--	--	--	--	--	10	--	--	
0010	12+80			LT	--	--	--	1	--	--	--	6	--	INSTALL TYPE A WITH INLET
0010	13+80			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	13+90			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	14+20	-	18+50	RT	--	635	635	--	--	--	--	--	--	
0010	14+24			RT	--	--	--	--	--	--	--	4	--	EXIST AND NEW PIPE
0010	14+86			LT	--	--	--	2	--	1	--	2	--	EXIST AND NEW PIPE
0010	15+50			LT	--	--	--	1	--	--	--	--	--	
0010	15+76			RT	--	--	--	--	--	--	10	--	--	
0010	15+90			RT	--	--	--	1	--	--	--	--	--	INSTALL TYPE A WITH INLET
0010	16+29			LT	--	--	--	1	--	1	-	4	--	INSTALL TYPE A WITH INLET
0010	16+50			LT	--	--	--	--	--	--	10	--	--	
0010	18+15			LT	--	--	--	2	--	1	-	--	--	INSTALL TYPE A WITH INLET
0010	18+96			RT	--	--	--	1	--	--	-	--	--	EXISTING INLET
0010	19+04	-	23+03	RT	--	400	400	--	--	--	10	--	--	
0010	19+22			LT & RT	--	--	--	2	--	2	--	--	--	INSTALL TYPE A WITH INLET
0010	20+36			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	21+50			LT & RT	--	--	--	2	--	2	--	--	--	INSTALL TYPE A WITH INLET
0010	23+00			RT	--	--	--	1	--	--	--	--	--	INSTALL TYPE A WITH INLET
0010	24+50			LT & RT	--	--	--	2	--	2	--	--	--	INSTALL TYPE A WITH INLET
0010	26+44	-	27+62	LT	--	125	125	--	--	--	--	--	--	
0010	26+81			LT & RT	--	--	--	2	--	2	--	--	--	INSTALL TYPE A WITH INLET
0010	27+67	-	29+56	LT	--	196	196	--	--	--	--	--	--	
0010	27+80			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	29+91	-	31+26	LT	--	136	136	--	--	--	--	--	--	
				PAGE TOTAL	**0**	**2,514**	**2,514**	**30**	**0**	**19**	**40**	**32**	**0**	

EROSION CONTROL SUMMARY CONTINUED

CATEGORY	STATION	TO	STATION	LOCATION	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	REMARKS
0010	31+56	-	32+92	LT	--	136	136	--	--	--	--	--	--	
0010	32+65			LT & RT	--	--	--	2	--	2	--	--	--	INSTALL TYPE A WITH INLET
0010	34+32			RT	--	--	--	-	2	--	--	--	--	EXIST AND NEW INLETS
0010	35+98			LT & RT	--	--	--	2	--	4	--	--	--	EXIST AND NEW INLETS
0010	39+82			LT & RT	--	--	--	2	--	3	--	--	--	EXIST AND NEW INLETS
0010	40+16			RT	--	--	--	1	--	2	--	--	--	EXIST AND NEW INLETS
0010	40+53			RT	--	--	--	1	--	2	--	--	--	EXIST AND NEW INLETS
0010	41+43	-	42+98	LT	--	171	171	--	--	--	--	--	--	
0010	42+73	-	43+47	RT	--	100	100	--	--	--	--	--	--	
0010	43+07			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	43+40			RT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	43+61			LT	--	--	--	1	--	2	--	--	--	EXIST AND NEW INLETS
0010	43+67			RT	--	--	--	1	--	2	--	--	--	EXIST AND NEW INLETS
0010	44+27			LT & RT	--	--	--	3	--	2	--	--	--	INSTALL TYPE A WITH INLET
0010	45+42			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
0010	46+03			LT & RT	--	--	--	-	--	2	--	--	--	EXISTING INLETS
0010	46+84			LT & RT	--	--	--	2	--	2	--	--	--	INSTALL TYPE A WITH INLET
0010	49+91			LT	--	--	--	1	--	1	--	--	--	INSTALL TYPE A WITH INLET
UNDISTRIBUTED					30	293	293	5	--	5	4	4	44	
				PAGE TOTAL	**30**	**700**	**700**	**24**	**2**	**32**	**4**	**4**	**44**	
PROJECT 3670-01-71				**TOTAL 0010**	**30**	**3,214**	**3,214**	**54**	**2**	**51**	**44**	**36**	**44**	

EROSION CONTROL MOBILIZATION SUMMARY

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	PROJECT 3670-01-71	5	3
PROJECT 3670-01-71	**TOTAL 0010**	**5**	**3**

CATEGORY	STATION	LOCATION	633.5200 MARKERS CULVERT END EACH	REMARKS
0010	8+60	LT	1	ENDWALL 12A
0010	12+80	RT	1	ENDWALL 14B
0010	14+86	LT	1	ENDWALL 20A
0010	15+75	RT	1	ENDWALL 20G
0010	16+30	RT	1	ENDWALL 20E
0010	16+85	RT	1	EXISTING OUTFALL
PROJECT 3670-01-71	**TOTAL 0010**		**6**	

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SIGN SUMMARY

CATEGORY	SIGN NUMBER	SIGN TYPE	SIZE	SIZE	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
0010	1-01	S1-1	36.0	36.0	--	1	--	--	--	--	6.75	SCHOOL CROSSING
0010	1-01	S16-9P	30.0	18.0	--	--	--	--	--	--	3.75	SCHOOL CROSSING AHEAD
0010	1-01	R2-6P	24.0	18.0	--	--	--	--	--	3.00	--	FINES HIGHER SIGN
0010	1-02	R1-1	30.0	30.0	1	--	--	--	--	5.18	--	STOP SIGN
0010	1-03	S4-51	24.0	48.0	1	--	--	--	--	--	8.00	SCHOOL SPEED LIMIT 15 MPH
0010	1-04	R2-1	24.0	30.0	1	--	--	--	--	5.00	--	SPEED LIMIT 25MPH
0010	1-05	S5-2	24.0	30.0	--	--	--	--	--	--	5.00	END SCHOOL ZONE
0010	1-06	J4-1	24.0	36.0	--	1	--	--	--	6.00	--	SOUTH DIRECTIONAL STH 89
0010	2-01	S4-51	24.0	48.0	--	1	--	--	--	--	8.00	SCHOOL SPEED LIMIT 15 MPH
0010	2-02	S4-51	24.0	48.0	--	1	--	--	--	--	8.00	SCHOOL SPEED LIMIT 15 MPH
0010	2-03	I2-3	66.0	24.0	2	--	--	--	--	11.00	--	COLUMBUS POPULATION
0010	2-04	R1-1	30.0	30.0	1	--	--	--	--	5.18	--	STOP SIGN WATERLOO
0010	2-05	J4-1	24.0	36.0	--	1	--	--	--	6.00	--	NORTH DIRECTIONAL STH 89
0010	2-06	S4-51	24.0	48.0	--	1	--	--	--	--	8.00	SCHOOL SPEED LIMIT 15 MPH
0010	2-07	S4-51	24.0	48.0	--	1	--	--	--	--	8.00	SCHOOL SPEED LIMIT 15 MPH
0010	2-08	R1-1	30.0	30.0	1	--	--	--	--	5.18	--	STOP FOR FRONTAGE ROAD
0010	3-01	R2-1	24.0	30.0	--	--	1	--	--	5.00	--	SPEED LIMIT 25MPH
0010	3-01	S5-2	24.0	30.0	--	--	--	--	--	5.00	--	END SCHOOL ZONE
0010	3-02	S4-51	24.0	48.0	--	1	--	--	--	8.00	--	SCHOOL SPEED LIMIT 15 MPH
0010	3-03	S1-1	36.0	36.0	--	1	--	--	--	--	6.75	SCHOOL CROSSING
0010	3-03	S16-9P	24.0	12.0	--	--	--	--	--	2.00	--	SCHOOL CROSSING AHEAD
0010	3-03	R2-6P	24.0	18.0	--	--	--	--	--	3.00	--	FINES HIGHER SIGN
0010	3-04	R1-1	30.0	30.0	1	--	--	--	--	5.18	--	STOP FOLSOM
0010	3-05	R1-1	30.0	30.0	1	--	--	--	--	5.18	--	STOP FOLSOM
0010	4-01	R2-1	24.0	30.0	1	--	--	--	--	5.00	--	SPEED LIMIT 25MPH
0010	4-02	R1-1	30.0	30.0	1	--	--	--	--	5.18	--	STOP POET
0010	4-03	R1-1	30.0	30.0	1	--	--	--	--	5.18	--	STOP POET
0010	4-04	R2-1	24.0	30.0	1	--	--	--	--	5.00	--	SPEED LIMIT 25
0010	4-05	J1-2	48.0	39.0	--	2	--	--	--	13.00	--	END 89 JCT 73
0010	4-06	R2-1	24.0	30.0	1	--	--	--	--	5.00	--	SPEED LIMIT 25MPH
0010	4-07	J4-1	24.0	36.0	--	1	--	--	--	6.00	--	SOUTH DIRECTIONAL STH 89
0010	4-08	R1-1	36.0	36.0	--	--	--	1	--	7.46	--	STOP 73
0010	4-09	J3-1	24.0	57.0	--	--	--	--	2	9.50	--	SOUTH DIRECTIONAL STH 89 RA
0010	4-10	S1-1	36.0	36.0	1	--	--	--	--	--	6.75	SCHOOL CROSSING
0010	4-11	S1-1	36.0	36.0	1	--	--	--	--	--	6.75	SCHOOL CROSSING
0010	4-12	J3-1	24.0	57.0	--	1	--	--	--	9.50	--	SOUTH DIRECTIONAL STH 89 LA
0010	4-08	J3-4	96.0	57.0	--	--	2	--	--	38.00	--	S 73 LA / N 73 RA / BUS 151 DBA / TO 16 RA
PROJECT 3670-01-71 TOTAL 0010					**16**	**13**	**3**	**1.00**	**2.00**	**188.72**	**75.75**	

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SIGN REMOVAL SUMMARY

CATEGORY	STATION		LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	3+55	NB RT		2	1	SCHOOL ZONE
0010	3+85	NB LT	AVALON RD	1	1	STOP SIGN
0010	5+17	NB RT		1	1	SCHOOL SPEED
0010	5+17	NB LT		1	1	SPEED LIMIT 25
0010	7+00	NB LT		1	1	END SCHOOL ZONE
0010	7+76	NB LT		2	1	ROUTE DESIGNATION
0010	15+21	NB LT		1	1	SCHOOL SPEED
0010	15+72	NB RT		1	2	COLUMBUS POP.
0010	16+70	NB LT		2	1	SCHOOL AHEAD/SPEED/FINE
0010	17+00	NB RT		2	1	SCHOOL/SPEED/FINE
0010	17+81	NB LT		1	1	SPEED LIMIT
0010	17+81	NB RT		1	1	SPEED LIMIT
0010	18+82	NB RT		1	1	STOP
0010	19+60	NB LT		3	1	SCHOOL SPEED LIMIT
0010	20+16	NB LT		1	1	ADOPT A HIGHWAY
0010	20+75	NB RT		2	1	ROUTE DESIGNATION
0010	24+58	NB RT		1	1	SPEED LIMIT
0010	25+21	NB LT		1	1	SPEED LIMIT
0010	31+78	NB LT		1	1	SPEED LIMIT
0010	32+98	NB RT		1	--	SPEED LIMIT ON UTILITY POLE
0010	36+29	NB LT	FOLSOM STREET	1	1	STOP SIGN
0010	36+75	NB RT	FOLSOM STREET	1	1	STOP SIGN
0010	40+15	NB LT	POET STREET	1	1	STOP SIGN
0010	40+56	NB RT	POET STREET	1	1	STOP SIGN
0010	41+00	NB LT		1	1	SPEED LIMIT
0010	41+60	NB RT		1	1	ROUTE DESIGNATION
0010	49+28	NB LT		1	1	ROUTE DESIGNATION
0010	49+72	NB RT		1	1	STOP
0010	49+87	NB RT	STH 73	1	1	TURN ASSEMBLY
0010	49+87	NB LT	STH 73	1	1	SCHOOL ZONE
0010	70+00	EB LT	STH 73	1	2	TURN ASSEMBLY
0010	70+21	EB LT	STH 73	2	1	TURN ASSEMBLY/SCHOOL ZONE
	PROJECT 3670-01-71		**TOTAL 0010**	**40**	**33**	

TRAFFIC CONTROL SUMMARY

CATEGORY	LOCATION	DURATION	643.0300 NO.	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 NO.	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 NO.	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 NO.	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0910 CYCLE	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	643.0920 CYCLE	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1050 NO.	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	REMARKS
0010	SOUTH ADVANCE WARNING	107	--	--	2	214	4	428	6	642	--	--	--	--	1	7	
0010	NORTH ADVANCE WARNING	107	--	--	--	--	--	--	8	856	--	--	--	--	1	7	
0010	**STAGE 1**																
0010	SOUTH PROJECT LIMITS	48	--	--	4	192	8	384	3	144	--	--	--	--	---	--	
0010	FOLSOM STREET	48	--	--	4	192	8	384	12	576	--	--	--	--	---	--	
0010	POET STREET	48	--	--	4	192	8	384	14	672	--	--	--	--	---	--	
0010	2ND WARD CREEK	14	--	--	8	112	16	224	6	84	--	--	--	--	---	--	
0010	NORTH PROJECT LIMITS	48	10	480	7	336	14	672	2	96	--	--	--	--	---	--	
0010	**STAGE 2**																
0010	SOUTH PROJECT LIMITS	59	--	--	2	118	4	236	1	59	--	--	--	--	--	--	
0010	AVALON ROAD	59	--	--	4	236	8	472	3	177	--	--	--	--	--	--	
0010	WATERLOO STREET	59	--	--	4	236	8	472	3	177	--	--	--	--	--	--	
0010	FRONTAGE ROAD	59	--	--	--	--	--	--	2	118	--	--	--	--	--	--	
0010	STA 34+00	59	--	--	4	236	8	472	2	118	--	--	--	--	--	--	
0010	FOLSOM STREET	59	--	--	4	236	8	472	6	354	--	--	--	--	--	--	
0010	POET STREET	59	--	--	4	236	8	472	5	295	--	--	--	--	--	--	
0010	NORTH PROJECT LIMITS	59	--	--	4	236	8	472	1	59	--	--	--	--	--	--	
0010	**STAGE 3**																
0010	STH 73/PARK AVE	14	--	--	10	140	20	280	8	112	--	--	--	--	2	14	
0010	**DETOURS**																
0010	PEDESTRIAN	14	--	--	--	--	--	--	19	266	--	--	--	--	--	--	
0010	STH 89 DETOUR	107	--	--	1	107	2	214	172	18,404	--	--	1	11	--	--	STAGE 1 & 2
0010	STH 73 DETOUR	14	--	--	1	14	2	28	225	3,150	1	2	1	8	--	--	STAGE 3
	PROJECT 3670-01-71 TOTAL 0010			**480**		**3,033**		**6,066**		**26,359**		**2**		**19**		**28**	

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TEMPORARY PEDESTRIAN SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	644.1420 TEMPORARY PEDESTRIAN SURFACE PLYWOOD SF	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	REMARKS
STAGE 1A PED									
0010	32+70			LT & RT	--	98	66	66	
0010	33+70	-	35+78	LT & RT	--	32	--	6	
0010	35+78	-	37+20	LT & RT	--	992	198	564	FOLSOM STREET
0010	37+20	-	39+53	LT & RT	--	192	--	--	
0010	39+53	-	41+16	LT & RT	--	1,286	264	692	POET STREET
0010	41+16	-	49+68	LT & RT	--	1,216	--	6	
STAGE 1B PED									
0010	32+70			LT & RT	--	--	30	--	
0010	33+58	-	35+78	LT & RT	--	64	--	48	
0010	35+78	-	36+98	LT & RT	--	672	30	222	FOLSOM STREET
0010	39+48	-	41+20	LT & RT	--	992	--	270	POET STREET
STAGE 2A PED									
0010	4+40	-	36+14	LT & RT	--	2,016	90	684	
STAGE 2B PED									
0010	14+00	-	36+45	LT & RT	--	1,120	28	438	
STAGE 3A PED									
0010	69+00	-	71+25	LT & RT	--	320	42	300	STH 73/PARK AVE
STAGE 3B PED									
0010	69+00	-	71+25	LT & RT	--	--	18	18	STH 73/PARK AVE
STAGE 3C PED									
0010	69+00	-	71+25	LT & RT	--	--	24	18	STH 73/PARK AVE
UNDISTRIBUTED									
0010					1,000	900	96	318	
	PROJECT 3670-01-71			**TOTAL 0010**	**1,000**	**9,900**	**886**	**3,650**	

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PAVEMENT MARKING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.8120 MARKING CURB EPOXY LF	REMARKS
0010	2+93	-	3+64		141	142	--	--	--	CENTER AND EDGELINES
0010	3+64	-	4+60		96	192	--	--	--	CENTER AND RT EDGELINE
0010	4+60	-	18+15		1,356	2,712	--	--	--	CENTER AND RT EDGELINE
0010	18+15	-	19+05		--	179	--	--	--	CENTERLINE
0010	18+90	-	19+26	LT	--		--	--	36	
0010	19+10	-	19+26	RT	--		--	--	16	
0010	19+11	-	36+07		--	3,393	--	--	--	CENTERLINE
0010	26+09	-	26+29	RT	--		--	--	20	
0010	26+79	-	26+91	RT	--		--	--	12	
0010	35+83	-	36+03	LT	--		--	--	20	
0010	35+92	-	36+08	RT	--		--	--	16	
0010	36+97		37+13	LT	--		--	--	16	
0010	36+98	-	39+92		--	589	--	--	--	CENTERLINE
0010	37+01		37+21	RT	--		--	--	20	
0010	39+69		39+89	RT	--		--	--	20	
0010	39+69		39+89	LT	--		--	--	20	
0010	40+73		40+88	LT	--		--	--	16	
0010	40+73	-	49+69		--	1,792	--	--	--	CENTERLINE
0010	40+81		41+01	RT	--		--	--	20	
0010	43+80		49+67	LT & RT	--		--	--	930	
INTERSECTIONS										
0010	AVALON ROAD				--		23	--	--	
0010	WATERLOO STREET				--		20	76	--	
0010	FRONTAGE ROAD				--		17	70	--	
0010	FOLSOM STREET				--		38	348	--	
0010	POET STREET				--		31	312	--	
0010	STH 73				--		20	259	92	
			PROJECT 3670-01-71	**TOTAL 0010**	**10,592**		**149**	**1,065**	**1,254**	

CONSTRUCTION STAKING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.6500.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (01. M-11-0010) LS	650.8500.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) (01. 3670-01-71) LS	650.9910.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 3670-01-71) LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	2+93	-	49+68	STH 89 NB	4,675	4,675	1	1	1	4,675
0010	69+55	-	70+45	STH 73 EB	90	90	--	--	--	90
				PROJECT 3670-01-71 TOTAL 0010	**4,765**	**4,765**	**1**	**1**	**1**	**4,765**

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LIGHTING - WIRE AND CONDUIT SUMMARY

CATEGORY	FROM		TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
0020	ANB1	-	BNB2	91	96	384
0020	BNB2	-	CNB3	102	107	428
0020	CNB3	-	ANB4	100	105	420
0020	ANB4	-	BNB5	104	109	436
0020	BNB5	-	CNB6	102	107	428
0020	CNB6	-	ANB7	105	110	440
0020	ANB7	-	BNB8	109	114	456
0020	BNB8	-	CNB9	109	114	456
0020	CNB9	-	ANB10	109	114	456
0020	ANB10	-	BNB11	108	113	452
0020	BNB11	-	CNB12	110	115	460
0020	CNB12	-	ANB13	94	99	396
0020	ANB13	-	BNB14	94	99	396
0020	BNB14	-	CNB15	96	101	404
0020	CNB15	-	ANB16	94	99	396
0020	ANB16	-	BNB17	101	106	424
0020	BNB17	-	CNB18	101	106	424
0020	CNB18	-	ANB19	101	106	424
0020	ANB19	-	BNB20	101	106	424
0020	BNB20	-	CNB21	101	106	424
0020	CNB21	-	ANB22	101	106	424
0020	ANB22	-	BNB23	102	107	428
0020	BNB23	-	CNB24	79	84	336
0020	CNB24	-	DC	56	71	284
0020	DC	-	DNB25	45	50	200
0020	DNB25	-	ENB26	101	106	424
0020	ENB26	-	FNB27	103	108	432
0020	FNB27	-	DNB28	96	101	404
0020	DNB28	-	ENB29	96	101	404
0020	ENB29	-	FNB30	95	100	400
0020	FNB30	-	DNB31	102	107	428
0020	DNB31	-	ENB32	109	114	456
0020	ENB32	-	FNB33	106	111	444
0020	FNB33	-	DNB34	91	96	384
0020	DNB34	-	ENB35	91	96	384
0020	ENB35	-	FNB36	110	115	460
0020	FNB36	-	DNB37	91	96	384
0020	DNB37	-	ENB38	88	93	372
0020	ENB38	-	FNB39	83	88	352
0020	FNB39	-	DNB40	99	104	416
0020	DNB40	-	ENB41	97	102	408
0020	ENB41	-	FNB42	91	96	384
0020	FNB42	-	DNB43	88	93	372
0020	DNB43	-	ENB44	88	93	372
0020	ENB44	-	FNB45	84	89	356
0020	FNB45	-	DNB46	80	85	340
0020	DNB46	-	PB1	56	71	284
0020	PB1	-	PB2	48	63	252
0020	PB2	-	ENB47	35	40	160
0020	ENB47	-	FNB48	85	90	360
PROJECT 3670-01-71			**TOTAL 0020**	**4,628**	**4,908**	**19,632**

LIGHTING - POLE SUMMARY

CATEGORY	POLE ID	654.0105 CONCRETE BASES TYPE 5 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5-ALUMINUM EACH
0020	ANB1	1	1	1
0020	BNB2	1	1	1
0020	CNB3	1	1	1
0020	ANB4	1	1	1
0020	BNB5	1	1	1
0020	CNB6	1	1	1
0020	ANB7	1	1	1
0020	BNB8	1	1	1
0020	CNB9	1	1	1
0020	ANB10	1	1	1
0020	BNB11	1	1	1
0020	CNB12	1	1	1
0020	ANB13	1	1	1
0020	BNB14	1	1	1
0020	CNB15	1	1	1
0020	ANB16	1	1	1
0020	BNB17	1	1	1
0020	CNB18	1	1	1
0020	ANB19	1	1	1
0020	BNB20	1	1	1
0020	CNB21	1	1	1
0020	ANB22	1	1	1
0020	BNB23	1	1	1
0020	CNB24	1	1	1
0020	DNB25	1	1	1
0020	ENB26	1	1	1
0020	FNB27	1	1	1
0020	DNB28	1	1	1
0020	ENB29	1	1	1
0020	FNB30	1	1	1
0020	DNB31	1	1	1
0020	ENB32	1	1	1
0020	FNB33	1	1	1
0020	DNB34	1	1	1
0020	ENB35	1	1	1
0020	FNB36	1	1	1
0020	DNB37	1	1	1
0020	ENB38	1	1	1
0020	FNB39	1	1	1
0020	DNB40	1	1	1
0020	ENB41	1	1	1
0020	FNB42	1	1	1
0020	DNB43	1	1	1
0020	ENB44	1	1	1
0020	FNB45	1	1	1
0020	DNB46	1	1	1
0020	ENB47	1	1	1
0020	FNB48	1	1	1
PROJECT 3670-01-71	**TOTAL 0020**	**48**	**48**	**48**

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LIGHTING - ARMS AND LUMINAIRES SUMMARY

CATEGORY	POLE ID	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	657.0620 LUMINAIRE ARMS SINGLE MEMBER 6-INCH CLAMP 4-FT EACH	659.1115 LUMINAIRES UTILITY LED A EACH
0020	ANB1	117	1	1
0020	BNB2	117	1	1
0020	CNB3	117	1	1
0020	ANB4	117	1	1
0020	BNB5	117	1	1
0020	CNB6	117	1	1
0020	ANB7	117	1	1
0020	BNB8	117	1	1
0020	CNB9	117	1	1
0020	ANB10	117	1	1
0020	BNB11	117	1	1
0020	CNB12	117	1	1
0020	ANB13	117	1	1
0020	BNB14	117	1	1
0020	CNB15	117	1	1
0020	ANB16	117	1	1
0020	BNB17	117	1	1
0020	CNB18	117	1	1
0020	ANB19	117	1	1
0020	BNB20	117	1	1
0020	CNB21	117	1	1
0020	ANB22	117	1	1
0020	BNB23	117	1	1
0020	CNB24	117	1	1
0020	DNB25	117	1	1
0020	ENB26	117	1	1
0020	FNB27	117	1	1
0020	DNB28	117	1	1
0020	ENB29	117	1	1
0020	FNB30	117	1	1
0020	DNB31	117	1	1
0020	ENB32	117	1	1
0020	FNB33	117	1	1
0020	DNB34	117	1	1
0020	ENB35	117	1	1
0020	FNB36	117	1	1
0020	DNB37	117	1	1
0020	ENB38	117	1	1
0020	FNB39	117	1	1
0020	DNB40	117	1	1
0020	ENB41	117	1	1
0020	FNB42	117	1	1
0020	DNB43	117	1	1
0020	ENB44	117	1	1
0020	FNB45	117	1	1
0020	DNB46	117	1	1
0020	ENB47	117	1	1
0020	FNB48	117	1	1
PROJECT 3670-01-71	**TOTAL 0020**	**5,616**	**48**	**48**

LIGHTING - MISCELLANEOUS SUMMARY

CATEGORY	LOCATION	653.0140 PULL BOXES STEEL 24X42-INCH EACH	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (01. DISTRIBUTION CENTER) LS	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH	REMARK
0020	DISTRIBUTION CENTER NB	--	1	1	1	
0020	STA 48+46	1	--	--	--	PB1
0020	STA 48+46	1	--	--	--	PB2
PROJECT 3670-01-71	**TOTAL 0020**	**2**	**1**	**1**	**1**	

SAWING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010	2+93			NB	23	--	SOUTH PROJECT LIMITS
0010	3+85	-	4+20	NB	30	--	DRIVEWAY RT
0010	4+42	-	4+47	NB	--	4	SIDEWALK LT
0010	4+60			NB	--	5	SIDEWALK LT
0010	8+55			NB	--	5	SIDEWALK LT
0010	8+96	-	9+24	NB	29	--	DRIVEWAY LT
0010	9+42			NB	--	5	SIDEWALK LT
0010	13+92	-	14+19.37	NB	25	--	DRIVEWAY RT
0010	14+28			NB	--	5	SIDEWALK LT
0010	14+41	-	14+73.14	NB	33	--	DRIVEWAY LT
0010	22+26	-	22+59.68	NB	25	--	DRIVEWAY LT
0010	26+11	-	26+39.28	NB	30	--	DRIVEWAY LT
0010	26+29.36	-	26+29.38	NB	24	--	FRONTAGE ROAD RT
0010	26+60.25	-	26+76.69	NB	15	--	DRIVEWAY RT
0010	26+91.35	-	27+03.03	NB	12	--	DRIVEWAY RT
0010	27+62.44	-	27+67.41	NB	--	5	SIDEWALK LT
0010	27+67.77	-	27+79.14	NB	12	--	DRIVEWAY RT
0010	27+34.51	-	27+51.02	NB	--	17	DRIVEWAY RT
0010	27+78.48	-	27+82.49	NB	--	5	SIDEWALK RT
0010	29+54.34	-	29+93.16	NB	35	--	DRIVEWAY LT
0010	30+05.82	-	30+15.88	NB	--	11	DRIVEWAY RT
0010	30+41.20	-	30+43.85	NB	--	3	SIDEWALK RT
0010	30+70.78	-	30+80.65	NB	10	--	DRIVEWAY RT
0010	31+22.72	-	31+25.36	NB	--	3	SIDEWALK RT
0010	31+22.83	-	31+55.62	NB	31	--	DRIVEWAY LT
0010	32+02.19	-	32+05.35	NB	--	4	SIDEWALK RT
0010	32+28.22	-	32+39.24	NB	12	--	DRIVEWAY RT
0010	32+67.80	-	32+72.09	NB	--	4	SIDEWALK RT
0010	32+85.27	-	32+93.93	NB	--	10	DRIVEWAY RT
0010	32+91.01	-	33+06.30	NB	--	16	DRIVEWAY LT
0010	33+18.29	-	33+22.53	NB	--	5	SIDEWALK LT
0010	33+26.81	-	33+53.01	NB	23	--	DRIVEWAY RT
0010	33+56.31	-	33+61.22	NB	--	5	SIDEWALK LT
0010	33+80.94	-	34+06.05	NB	25	--	PARKING LOT LT
0010	34+24.59	-	34+41.17	NB	17	--	DRIVEWAY RT
				PAGE TOTAL	**411**	**112**	

SAWING SUMMARY CONTINUED

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010	34+26.09	-	34+31.14	NB	--	6	SIDEWALK LT
0010	34+61.12	-	34+86.10	NB	25	--	DRIVEWAY LT
0010	34+92.09	-	35+02.39	NB	11	--	DRIVEWAY RT
0010	35+50.54	-	35+53.71	NB	--	4	SIDEWALK LT
0010	36+24.10	-	36+28.30	NB	--	5	SIDEWALK LT
0010	36+83.14	-	36+87.18	NB	--	4	SIDEWALK RT
0010	35+25.00	-	35+28.16	NB	--	4	SIDEWALK LT
0010	37+83.38	-	38+12.22	NB	29	--	DRIVEWAY LT
0010	38+63.12	-	38+81.39	NB	--	19	DRIVEWAY LT
0010	39+07.55	-	39+26.86	NB	--	18	DRIVEWAY RT
0010	39+10.36	-	39+13.47	NB	--	4	SIDEWALK LT
0010	39+67.97	-	39+70.70	NB	--	3	SIDEWALK RT
0010	39+77.16	-	39+81.00	NB	--	4	SIDEWALK LT
0010	40+08.65	-	40+12.31	NB	--	4	SIDEWALK RT
0010	40+10.81	-	40+14.64	NB	--	4	SIDEWALK LT
0010	40+60.06	-	40+63.95	NB	--	4	SIDEWALK RT
0010	40+80.81	-	40+84.82	NB	--	5	SIDEWALK LT
0010	41+82.64	-	42+01.20	NB	--	16	DRIVEWAY RT
0010	42+43.62	-	42+47.02	NB	--	4	SIDEWALK RT
0010	42+63.32	-	42+73.67	NB	12	--	DRIVEWAY RT
0010	42+98.37	-	43+83.88	NB	45	--	PARKING LOT LT
0010	43+46.31	-	43+62.56	NB	--	17	DRIVEWAY RT
0010	44+60.65	-	44+75.66	NB	16	--	DRIVEWAY RT
0010	45+81.13	-	45+85.04	NB	--	5	SIDEWALK RT
0010	46+17.84	-	46+45.21	NB	30	--	DRIVEWAY RT
0010	46+82.40	-	46+85.21	NB	--	4	SIDEWALK RT
0010	47+11.78	-	47+27.86	NB	18	--	DRIVEWAY RT
0010	47+43.59	-	47+54.95	NB	11	--	DRIVEWAY RT
0010	47+85.13	-	47+88.69	NB	--	4	SIDEWALK RT
0010	47+93.89	-	48+23.49	NB	--	31	DRIVEWAY LT
0010	48+21.61	-	48+41.09	NB	19	--	DRIVEWAY RT
0010	48+41.09	-	48+87.50	NB	--	100	PARKING LOT RT
0010	48+74.23	-	49+31.92	NB	50	--	DRIVEWAY LT
0010	48+74.23	-	49+31.92	NB	--	58	DRIVEWAY LT
0010	48+87.50	-	49+79.88	NB	50	--	PARKING LOT RT
0010	49+79.88	-	49+84.53	NB	--	4	SIDEWALK LT
0010	49+79.88	-	49+85.40	NB	--	4	SIDEWALK RT
0010	69+55			EB	--	45	PROJECT LIMITS
0010	69+58			EB	--	4	SIDEWALK LT
0010	70+45			EB	--	45	PROJECT LIMITS
0010	70+45			EB	--	4	SIDEWALK LT
0010	AVALON ROAD				37	5	PROJECT LIMITS
0010	WATERLOO STREET				32	5	PROJECT LIMITS
0010	EAST FOLSOM STREET				32	5	PROJECT LIMITS
0010	WEST FOLSOM STREET				33	--	PROJECT LIMITS
0010	EAST POET STREET				37	5	PROJECT LIMITS
0010	WEST POET STREET				21	--	PROJECT LIMITS
				PAGE TOTAL	**508**	**453**	
			PROJECT 3670-01-71	**TOTAL 0010**	**919**	**565**	

SPV.0060.01

SPECIAL (01. POWDER COATING LIGHT POLES)

CATEGORY	LOCATION	EACH
0030	PROJECT 3670-01-71	48
PROJECT 3670-01-71	**TOTAL 0030**	**48**

SPV.0090.03

SPECIAL (03. PIPE UNDERDRAIN (6-INCH) WITH GEOTEXTILE FABRIC AND AGGREGATE)

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	3+64	-	4+12	LT	66	INLET 10C
0010	4+12	-	4+60	LT	66	INLET 10D
0010	6+10	-	7+10	LT	100	INLET 11B
0010	9+80	-	10+80	LT	100	INLET 13A
0010	13+30	-	15+36	LT	206	INLET 16B - INLET 18A
0010	15+80	-	16+80	LT	100	INLET 20D
0010	17+65	-	18+65	LT	100	INLET 21A
0010	18+72	-	19+72	LT	100	INLET 22A
0010	18+78	-	19+65	RT	100	INLET 22B
0010	19+86	-	20+86	LT	100	INLET 22.1A
0010	21+00	-	22+00	LT & RT	200	INLET 23A & 23B
0010	24+00	-	25+00	LT & RT	200	INLET 24A & 24B
0010	26+31	-	28+31	LT	200	INLET 25A - INLET 26A
0010	26+70	-	27+31	RT	80	INLET 25B
0010	32+15	-	33+15	LT & RT	200	INLET 30A & 30B
0010	35+53	-	36+32	LT	100	INLET 32A
0010	35+53	-	36+37	RT	100	INLET 32B
0010	39+38	-	40+18	LT	100	INLET 33A
0010	39+38	-	40+91	RT	184	INLET 33B - INLET 34B
0010	42+57	-	44+77	LT	220	INLET 41A - INLET 43B
0010	42+91	-	44+77	RT	186	INLET 42C - INLET43C
0010	44+91	-	45+91	LT	100	INLET 44A
0010	46+34	-	47+34	LT & RT	200	INLET 45A & 45B
				PROJECT 3670-01-71 TOTAL 0010	**3,108**	

CATEGORY	STATION	LOCATION	SPV.0090.22 SPECIAL (22. PIPE INSULATION) LF
PROJECT 3670-01-71			
0010	4+40	STH 89 LT	8
0010	12+80	STH 89 RT	8
0010	16+30	STH 89 RT	8
0010	32+65	STH 89 RT	8
0010	34+32	STH 89 RT	8
0010	36+03	STH 89 RT	8
0010	39+88	STH 89 RT	8
0010	40+17	STH 89 RT	8
PROJECT 3670-01-71 TOTAL 0010			**64**
PROJECT 3670-01-72			
0010			136
PROJECT 3670-01-72 TOTAL			**136**
PROJECT TOTAL			**200**

CONTAMINATED MATERIAL SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0120.01 SPECIAL (01. MANAGEMENT OF PETROLEUM-CONTAMINATED GROUNDWATER) MGAL	SPV.0195.01 SPECIAL (01. EXCAVATION, HAULING, AND DISPOSAL OF CONTAMINATED SOIL) TON	REMARKS
PROJECT 3670-01-71							
0010	45+50	-	50+00		0.034	148	STORM SEWR EXCAVATION
PROJET 3670-01-71 TOTAL 0010					**0.034**	**148**	
PROJECT 3670-01-72							
0010					0.100	92	
0020					0.300	458	
PROJECT 3670-01-72 TOTAL					**0.400**	**550**	
PROJECT TOTAL					**0.434**	**698**	

REFRENCE MONUMENT SUMMARY

CATEGORY	LOCATION	SPV.0060.02 SPECIAL (02. VERIFY AND REPLACE EXISTING LAND PARCEL MONUMENTS) EACH	SPV.0060.03 SPECIAL (03. VERIFY LANDMARK REFERENCE MONUMENTS) EACH	SPV.0060.04 SPECIAL (04. RESEARCH AND LOCATE EXISTING LAND PARCEL MONUMENTS) EACH
0010	PROJECT 3670-01-71	56	1	56
PROJECT 3670-01-71	**TOTAL 0010**	**56**	**1**	**56**

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WATER MAIN PIPE AND FITTINGS
PROJECT 3670-01-72
CATEGORY 0010

STATION	TO STATION	LOCATION	SPV.0060.21 DUCTILE IRON PIPE NITRILE GASKET EACH	SPV.0090.14 6-INCH WATER MAIN-GRANULAR BACKFILL LF	SPV.0090.15 8-INCH WATER MAIN-GRANULAR BACKFILL LF	SPV.0090.16 6-INCH WATER MAIN RELAY-GRANULAR BACKFILL LF	SPV.0090.17 10-INCH WATER MAIN RELAY-GRANULAR BACKFILL LF
10+00	15+50	FARNHAM STREET "STH 89"					
15+50	20+50	FARNHAM STREET "STH 89"		53.6	378.1		5
20+50	25+50	FARNHAM STREET "STH 89"			500	39.4	
25+50	30+50	FARNHAM STREET "STH 89"			190.2		
30+50	35+50	FARNHAM STREET "STH 89"					
35+50	40+50	FARNHAM STREET "STH 89"		36.9	99.7		
40+50	45+50	FARNHAM STREET "STH 89"			75.1		
45+50	50+50	FARNHAM STREET "STH 89"					
50+50	55+50	FARNHAM STREET "STH 89"					
61+00	65+50	WATERLOO STREET	10	10	171.3		
		TOTAL	**10**	**100.5**	**1414.4**	**39.4**	**5**

WATER MAIN VALVES
PROJECT 3670-01-72
CATEGORY 0010

STATION	LOCATION	OFFSET	SPV.0060.09 6-INCH WATER MAIN VALVE EACH	SPV.0060.10 8-INCH WATER MAIN VALVE EACH
16+84.80	FARNHAM STREET "STH 89"	21.7 RT		1
17+43.97	FARNHAM STREET "STH 89"	47.0 LT	1	
18+30.02	FARNHAM STREET "STH 89"	7.9 RT		1
18+80.84	FARNHAM STREET "STH 89"	7.9 RT		1
22+79.96	FARNHAM STREET "STH 89"	8.0 RT		1
24+87.83	FARNHAM STREET "STH 89"	8.0 RT		1
24+92.84	FARNHAM STREET "STH 89"	32.2 LT	1	
24+97.85	FARNHAM STREET "STH 89"	8.0 RT		1
27+31.51	FARNHAM STREET "STH 89"	13.8 RT		1
36+64.00	FARNHAM STREET "STH 89"	53.40 RT	1	
36+64.00	FARNHAM STREET "STH 89"	56.20 LT	1	
61+30.16	WATERLOO STREET	11.7 LT		1
63+12.32	WATERLOO STREET	10.0 LT	1	
		TOTAL	**5**	**8**

HYDRANTS
PROJECT 3670-01-72
CATEGORY 0010

STATION	LOCATION	OFFSET	SPV.0060.11 HYDRANT ASSEMBLY EACH	SPV.0060.20 ABANDON HYDRANT EACH	SPV.0090.18 6-INCH HYDRANT LEAD LF
18+20.02	FARNHAM STREET "STH 89"	24 RT	1		16
21+69.00	FARNHAM STREET "STH 89"	24 RT		1	
22+69.96	FARNHAM STREET "STH 89"	24 RT	1		16
26+38.10	FARNHAM STREET "STH 89"	24.6 RT		1	
27+14.00	FARNHAM STREET "STH 89"	23.1 RT	1		16
		TOTAL	**3**	**2**	**48**

WATER APPURTENANCE ADJUSTMENT
PROJECT 3670-01-72
CATEGORY 0010

STATION	LOCATION	OFFSET	SPV.0060.22 ADJUST HYDRANT EACH	SPV.0060.23 ADJUST WATER VALVE BOX EACH	SPV.0060.24 ADJUST WATER VALVE MANHOLE EACH	SPV.0060.25 ADJUST CURB BOX EACH
28+07.10	FARNHAM STREET "STH 89"	13.4 RT		1		
28+21.60	FARNHAM STREET "STH 89"	27.1 RT				1
28+71.10	FARNHAM STREET "STH 89"	23.6 RT				1
29+67.10	FARNHAM STREET "STH 89"	16.3 RT		1		
29+90.70	FARNHAM STREET "STH 89"	24.8 RT	1			
30+53.90	FARNHAM STREET "STH 89"	24.9 RT				1
30+92.80	FARNHAM STREET "STH 89"	23.8 RT				1
32+03.10	FARNHAM STREET "STH 89"	25.0 RT				1
32+88.40	FARNHAM STREET "STH 89"	22.9 RT				1
33+00.60	FARNHAM STREET "STH 89"	17.4 RT		1		
33+18.70	FARNHAM STREET "STH 89"	25.1 RT	1			
33+19.80	FARNHAM STREET "STH 89"	15.5 RT		1		
33+41.50	FARNHAM STREET "STH 89"	23.6 LT				1
33+74.00	FARNHAM STREET "STH 89"	27.8 RT				1
34+19.50	FARNHAM STREET "STH 89"	26.1 RT				1
34+20.90	FARNHAM STREET "STH 89"	22.8 LT				1
34+94.70	FARNHAM STREET "STH 89"	26.1 RT				1
35+92.90	FARNHAM STREET "STH 89"	26.1 RT				1
36+65.70	FARNHAM STREET "STH 89"	16.2 RT				1
37+01.80	FARNHAM STREET "STH 89"	23.1 RT	1			
37+41.80	FARNHAM STREET "STH 89"	28.1 LT				1
37+42.90	FARNHAM STREET "STH 89"	23.5 RT				1
37+97.60	FARNHAM STREET "STH 89"	22.3 RT				1
38+32.70	FARNHAM STREET "STH 89"	27.8 LT				1
38+32.90	FARNHAM STREET "STH 89"	27.1 RT				1
38+91.80	FARNHAM STREET "STH 89"	25.6 RT				1
39+04.50	FARNHAM STREET "STH 89"	28.0 RT				1
39+26.60	FARNHAM STREET "STH 89"	25.7 RT				1
39+83.30	FARNHAM STREET "STH 89"	22.8 LT				1
40+00.00	FARNHAM STREET "STH 89"	26.8 RT	1			
40+43.30	FARNHAM STREET "STH 89"	27.2 RT		1		
40+54.40	FARNHAM STREET "STH 89"	26.5 RT		1		
42+47.20	FARNHAM STREET "STH 89"	31.4 RT			1	
42+99.40	FARNHAM STREET "STH 89"	34.8 RT				1
43+11.50	FARNHAM STREET "STH 89"	32.8 RT			1	
43+14.50	FARNHAM STREET "STH 89"	31.3 RT				1
43+19.20	FARNHAM STREET "STH 89"	24.1 RT		1		
44+75.20	FARNHAM STREET "STH 89"	35.9 RT				1
47+80.20	FARNHAM STREET "STH 89"	33.2 RT				1
49+09.50	FARNHAM STREET "STH 89"	33.5 RT				1
		TOTAL	**4**	**7**	**2**	**27**

WATER SERVICES
PROJECT 3670-01-72
CATEGORY 0010

STATION	LOCATION	OFFSET	SPV.0060.12 3/4-INCH TAP AND CORPORATION VALVE EACH	SPV.0060.13 1-INCH TAP AND CORPORATION VALVE EACH	SPV.0060.14 2-INCH TAP AND CORPORATION VALVE EACH	SPV.0060.15 3/4-INCH CURB VALVE AND CURB BOX EACH	SPV.0060.16 1-INCH CURB VALVE AND CURB BOX EACH	SPV.0060.17 2-INCH CURB VALVE AND CURB BOX EACH	SPV.0090.19 3/4-INCH WATER SERVICE EXTENSION - OPEN TRENCH W/GRANULAR BACKFILL LF	SPV.0090.20 1-INCH WATER SERVICE - OPEN TRENCH W/GRANULAR BACKFILL LF	SPV.0090.21 2-INCH WATER SERVICE - OPEN TRENCH W/GRANULAR BACKFILL LF	SPV.0060.29 SOCCER FIELD WATER SERVICE ASSEMBLY AND RECONNECTION EACH
17+43.97	FARNHAM STREET "STH 89"	42.7 LT			1			1			13	1
23+07.70	FARNHAM STREET "STH 89"	8.0 RT		1			1			62.7		
23+80.80	FARNHAM STREET "STH 89"	8.0 RT		1			1			60.2		
24+61.15	FARNHAM STREET "STH 89"	8.0 RT		1			1			63.2		
25+37.00	FARNHAM STREET "STH 89"	8.0 RT		1			1			65.3		
26+20.70	FARNHAM STREET "STH 89"	8.0 RT		1			1			63.0		
27+28.90	FARNHAM STREET "STH 89"	13.9RT		1			1			18.3		
40+58.10	FARNHAM STREET "STH 89"	26.5 RT				1			64.2			
41+55.80	FARNHAM STREET "STH 89"	30.6 RT				1			63.6			
41+99.60	FARNHAM STREET "STH 89"	30.7 RT				1			64			
47+75.70	FARNHAM STREET "STH 89"	30.0 RT				1			63			
48+75.10	FARNHAM STREET "STH 89"	30.0 RT				1			63.2			
49+61.70	FARNHAM STREET "STH 89"	30.0 RT				1			63.1			
63+07.32	WATERLOO	9.7 RT	1									
		TOTAL	**1**	**6**	**1**	**6**	**6**	**1**	**381.1**	**332.7**	**13**	**1**

2

WATER MAIN ABANDONMENT
PROJECT 3670-01-72
CATEGORY 0010

STATION	LOCATION	OFFSET	SPV.0060.18 ABANDON WATER MAIN (CUT OFF) EACH	SPV.0060.19 ABANDON WATER VALVE BOX EACH
16+92.60	FARNHAM STREET "STH 89"	22.4 RT	1	
16+92.70	FARNHAM STREET "STH 89"	22.5 RT		1
17+22.50	FARNHAM STREET "STH 89"	36.8 RT		1
17+26.50	FARNHAM STREET "STH 89"	14.5 RT		1
18+76.00	FARNHAM STREET "STH 89"	91.6 RT	1	
24+91.00	FARNHAM STREET "STH 89"	15.6 RT		1
24+95.00	FARNHAM STREET "STH 89"	16.0 RT		1
26+35.30	FARNHAM STREET "STH 89"	13.0 RT		1
27+26.10	FARNHAM STREET "STH 89"	14.7 RT	1	
36+63.70	FARNHAM STREET "STH 89"	12.6 RT		1
36+63.70	FARNHAM STREET "STH 89"	24.9 RT		1
36+63.70	FARNHAM STREET "STH 89"	45.5 RT	1	
36+63.70	FARNHAM STREET "STH 89"	50.5 LT	1	
42+94.70	FARNHAM STREET "STH 89"	30.7 LT	1	
43+18.20	FARNHAM STREET "STH 89"	17.6 RT	1	
62+21.50	WATERLOO STREET	11.2 LT	1	
		TOTAL	**8**	**8**

WATER MAIN OR WATER SERVICE PIPE INSULATION
PROJECT 3670-01-72
CATEGORY 0010

STATION	LOCATION	OFFSET	SPV.0090.22 PIPE INSULATION LF
17+43.97	FARNHAM STREET "STH 89"	19.6 LT	8
19+22.40	FARNHAM STREET "STH 89"	8.0 RT	8
21+50.00	FARNHAM STREET "STH 89"	8.0 RT	8
21+98.00	FARNHAM STREET "STH 89"	8.0 RT	8
24+50.00	FARNHAM STREET "STH 89"	8.0 RT	8
24+92.84	FARNHAM STREET "STH 89"	12.0 LT	8
26+81.40	FARNHAM STREET "STH 89"	7.2 RT	8
36+57.80	FARNHAM STREET "STH 89"	12.0 RT	8
40+53.70	FARNHAM STREET "STH 89"	13.4 LT	8
41+55.80	FARNHAM STREET "STH 89"	13.2 LT	8
42+00.00	FARNHAM STREET "STH 89"	13.2 LT	8
43+18.80	FARNHAM STREET "STH 89"	13.2 LT	8
47+75.70	FARNHAM STREET "STH 89"	12.0 LT	8
48+76.50	FARNHAM STREET "STH 89"	12.0 LT	8
49+61.70	FARNHAM STREET "STH 89"	12.0 LT	8
61+73.10	WATERLOO STREET	9.4 LT	8
62+71.40	WATERLOO STREET	10.5 LT	8
		TOTAL	**136**

CONSTRUCTION STAKING WATER MAIN
PROJECT 3670-01-72
CATEGORY 0010

LOCATION	SPV.0060.30 CONSTRUCTION STAKING WATER MAIN EACH
PROJECT 3670-01-72	1
TOTAL	**1**

SANITARY SEWER PIPE
PROJECT 3670-01-72
CATEGORY 0020

STATION	TO	STATION	LOCATION	SPV.0090.04 8-INCH SANITARY SEWER-GRANULAR BACKFILL LF	SPV.0090.05 10-INCH SANITARY SEWER-GRANULAR BACKFILL LF	SPV.0090.06 8-INCH SANITARY SEWER RELAY-GRANULAR BACKFILL LF	SPV.0090.07 10-INCH SANITARY SEWER RELAY-GRANULAR BACKFILL LF	SPV.0090.08 12-INCH SANITARY SEWER RELAY-GRANULAR BACKFILL LF	SPV.0090.09 8-INCH SANITARY SEWER-SPOIL BACKFILL LF
10+00		15+50	FARNHAM STREET "STH 89"	421.70					25.00
15+50		20+50	FARNHAM STREET "STH 89"	500.00					
20+50		25+50	FARNHAM STREET "STH 89"	500.00					
25+50		30+50	FARNHAM STREET "STH 89"	56.30		419.00			
30+50		35+50	FARNHAM STREET "STH 89"			500.00			
35+50		40+50	FARNHAM STREET "STH 89"	56.80		148.20	45.00		
40+50		45+50	FARNHAM STREET "STH 89"	241.30	258.90			24.00	
45+50		50+50	FARNHAM STREET "STH 89"		457.40				
61+00		66+00	WATERLOO STREET	24.10					65.00
			TOTAL	**1800.20**	**716.30**	**1067.20**	**45.00**	**24.00**	**90.00**

SANITARY SEWER PIPE ABANDONMENT
PROJECT 3670-01-72
CATEGORY 0020

STATION	TO	STATION	LOCATION	SPV.0090.12 ABANDON SANITARY SEWER 8-INCH LF	SPV.0090.13 ABANDON SANITARY SEWER 10-INCH LF
10+00		15+50	FARNHAM STREET "STH 89"	396.00	
15+50		20+50	FARNHAM STREET "STH 89"	277.70	
20+50		25+50	FARNHAM STREET "STH 89"	246.50	
25+50		30+50	FARNHAM STREET "STH 89"	151.70	
30+50		35+50	FARNHAM STREET "STH 89"		
35+50		40+50	FARNHAM STREET "STH 89"		16.40
40+50		45+50	FARNHAM STREET "STH 89"		504.40
45+50		50+50	FARNHAM STREET "STH 89"		481.70
70+50		75+00	GREEN SPACE	210.00	
			TOTAL	**1281.90**	**1002.50**

SANITARY MANHOLES
PROJECT 3670-01-72
CATEGORY 0020

STATION	LOCATION	OFFSET	SPV.0200.01 NEW 48-INCH SANITARY SEWER MANHOLE VF	SPV.0200.02 NEW 48-INCH SANITARY SEWER MANHOLE (OUTSIDE DROP) VF	SPV.0200.03 48-INCH SANITARY SEWER MANHOLE REPLACEMENT VF
11+54.04	FARNHAM STREET "STH 89"	0	8.75		
14+98.26	FARNHAM STREET "STH 89"	0	9.33		
14+98.26	FARNHAM STREET "STH 89"	40.7 LT	7.71		
16+39.94	FARNHAM STREET "STH 89"	0.33 RT	10.72		
18+10.02	FARNHAM STREET "STH 89"	0	12.33		
20+50.00	FARNHAM STREET "STH 89"	0	12.12		
24+35.00	FARNHAM STREET "STH 89"	0	11.80		
27+50.01	FARNHAM STREET "STH 89"	0	8.73		
29+69.00	FARNHAM STREET "STH 89"	0	9.28		
30+46.00	FARNHAM STREET "STH 89"	0	9.79		
33+82.00	FARNHAM STREET "STH 89"	0			9.01
36+89.35	FARNHAM STREET "STH 89"	0	8.02		
40+31.80	FARNHAM STREET "STH 89"	0			9.33
42+91.32	FARNHAM STREET "STH 89"	0		15.54	
45+36.00	FARNHAM STREET "STH 89"	0	7.77		
46+91.18	FARNHAM STREET "STH 89"	0	7.86		
62+01.50	WATERLOO STREET	51.20 LT			8.17
		TOTAL	**124.21**	**15.54**	**26.51**

SANITARY APPURTENANCE ABANDONMENT AND ADJUSTMENT
PROJECT 3670-01-72
CATEGORY 0020

STATION	LOCATION	OFFSET	SPV.0060.07 ABANDON SANITARY SEWER MANHOLE EACH	SPV.0060.08 REMOVE SANITARY SEWER MANHOLE EACH
11+54.04	FARNHAM STREET "STH 89"	5.0 RT	1.00	
15+27.75	FARNHAM STREET "STH 89"	6.9 RT	1.00	
23+02.25	FARNHAM STREET "STH 89"	48.2 RT	1.00	
25+61.00	FARNHAM STREET "STH 89"	0		1.00
26+14.20	FARNHAM STREET "STH 89"	48.0 RT	1.00	
26+41.00	FARNHAM STREET "STH 89"	0		1.00
28+31.00	FARNHAM STREET "STH 89"	0		1.00
31+12.20	FARNHAM STREET "STH 89"	0		1.00
36+51.30	FARNHAM STREET "STH 89"	0		1.00
40+31.90	FARNHAM STREET "STH 89"	12 RT		1.00
42+93.30	FARNHAM STREET "STH 89"	14.9 RT		1.00
42+99.00	FARNHAM STREET "STH 89"	21.4 RT		1.00
43+11.80	FARNHAM STREET "STH 89"	14.9 RT	1.00	
46+08.60	FARNHAM STREET "STH 89"	43.7 RT	1.00	
48+13.60	FARNHAM STREET "STH 89"	13.80 RT	1.00	
		TOTAL	**7.00**	**8.00**

CONSTRUCTION STAKING SANITARY SEWER
PROJECT 3670-01-72
CATEGORY 0020

LOCATION	SPV.0060.28 CONSTRUCTION STAKING EACH
PROJECT 3670-01-72	1
TOTAL	**1**

SANITARY SEWER LATERALS
PROJECT 3670-01-72
CATEGORY 0020

STATION	LOCATION	OFFSET	SPV.0060.05 NEW SANITARY LATERAL CONNECTION EACH	SPV.0060.06 SANITARY SEWER LOCATOR BOX EACH	SPV.0090.10 6-INCH SANITARY SEWER LATERAL LF	SPV.0090.11 6-INCH SANITARY SEWER LATERAL EXTENSION LF
11+57.10	FARNHAM STREET "STH 89"	0		1	50	
15+28.00	FARNHAM STREET "STH 89"	0		1	35	
23+03.10	FARNHAM STREET "STH 89"	0		1	63	
23+64.80	FARNHAM STREET "STH 89"	0		1	63	
24+45.80	FARNHAM STREET "STH 89"	0		1	63	
25+33.10	FARNHAM STREET "STH 89"	0		1	63	
25+39.60	FARNHAM STREET "STH 89"	0		1	33	
26+23.00	FARNHAM STREET "STH 89"	0		1	63	
26+49.00	FARNHAM STREET "STH 89"	0		1	33	
27+28.00	FARNHAM STREET "STH 89"	0		1	33	
28+23.00	FARNHAM STREET "STH 89"	0		1	33	
28+31.10	FARNHAM STREET "STH 89"	0		1	33	
28+71.10	FARNHAM STREET "STH 89"	0		1	33	
29+63.10	FARNHAM STREET "STH 89"	0		1	33	
30+52.15	FARNHAM STREET "STH 89"	0		1	33	
31+12.15	FARNHAM STREET "STH 89"	0		1	33	
32+03.00	FARNHAM STREET "STH 89"	0		1	33	
32+58.80	FARNHAM STREET "STH 89"	0		1	33	
32+90.80	FARNHAM STREET "STH 89"	0		1	33	
33+34.80	FARNHAM STREET "STH 89"	0		1	33	
33+50.00	FARNHAM STREET "STH 89"	0		1	33	
33+72.40	FARNHAM STREET "STH 89"	0		1	33	
34+18.90	FARNHAM STREET "STH 89"	0		1	33	
34+91.80	FARNHAM STREET "STH 89"	0		1	33	
35+89.80	FARNHAM STREET "STH 89"	0		1	33	
37+43.50	FARNHAM STREET "STH 89"	0		1		30
37+46.30	FARNHAM STREET "STH 89"	0		1		30
37+99.30	FARNHAM STREET "STH 89"	0		1		30
38+29.60	FARNHAM STREET "STH 89"	0		1		30
38+91.10	FARNHAM STREET "STH 89"	0		1		30
39+07.80	FARNHAM STREET "STH 89"	0		1		30
39+81.30	FARNHAM STREET "STH 89"	0		1		30
41+53.10	FARNHAM STREET "STH 89"	0		1	33	
42+51.20	FARNHAM STREET "STH 89"	0		1	33	
43+10.00	FARNHAM STREET "STH 89"	0		1	33	
44+74.85	FARNHAM STREET "STH 89"	0		1	36	
45+98.00	FARNHAM STREET "STH 89"	9.6 LT		1	49.2	
46+70.00	FARNHAM STREET "STH 89"	4.6 LT		1	37.7	
47+71.60	FARNHAM STREET "STH 89"	0		1	30.6	
47+74.70	FARNHAM STREET "STH 89"	0		1	35.2	
48+40.80	FARNHAM STREET "STH 89"	2.3 RT		1	31	
48+71.10	FARNHAM STREET "STH 89"	3.5 RT		1	36.8	
49+03.50	FARNHAM STREET "STH 89"	4.8 RT		1	28.1	
71+98.40	WATERLOO STREET	5.3 RT	1			28
		TOTAL	**1**	**43**	**1377.6**	**238**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
3670-01-21
CITY OF COLUMBUS, FARNHAM STREET
0.32MI S OF AVALON RD TO PARK AVE
STH 89
COLUMBIA COUNTY

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	○
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	▲	△

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
CORNER	COR.
DOCUMENT	DOC.
EASEMENT	EASE.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PERMANENT LIMITED EASEMENT	PLE
PROPERTY LINE	P.L.
RECORDED AS	(100')
REFERENCE LINE	R/L
RELEASE OF RIGHTS	ROR
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

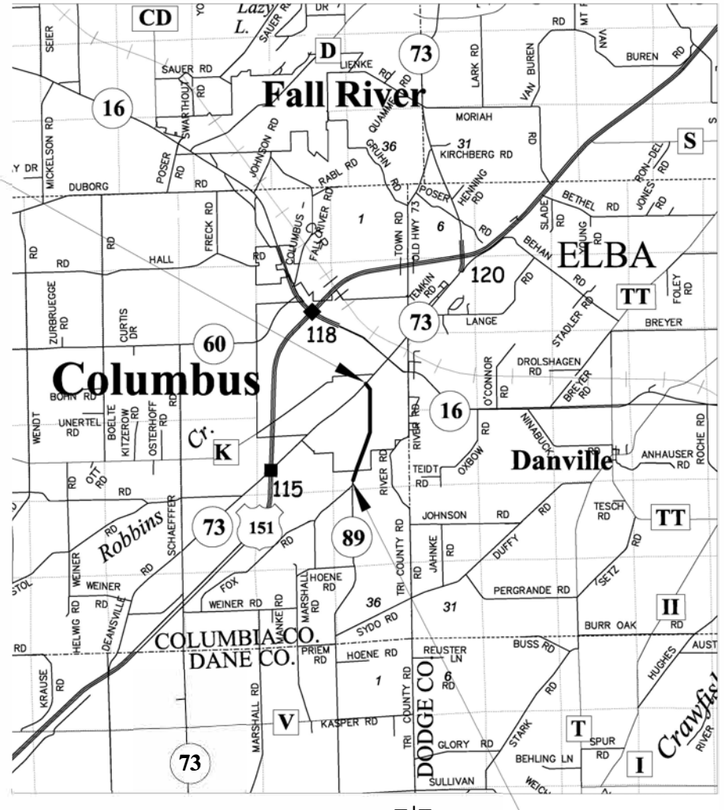
CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD	OH
TRANSMISSION LINES ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN
LEFT	LT
RIGHT	RT

END PROJECT



BEGIN PROJECT

GN

LAYOUT SCALE 0 1 MI.

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 3670-01-21.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), COLUMBIA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN 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.

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 MADISON

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

EXISTING ACCESS CONTROL ALONG STH 89 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECTS: KESTREL RIDGE, CALWELL'S ADDITION, CSM 3979, CSM 3982, CSM 3983, DOC. 725390.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 89 ESTABLISHED FROM PREVIOUS PROJECTS T0247(2) PLAN & PROFILE, KESTREL RIDGE, CALDWELL'S ADDITION, FARNHAM AND COMPANYS ADDITION TO THE CITY OF COLUMBUS, ASSESSOR'S RE-PLAT OF PORTIONS OF THE CITY OF COLUMBUS, D THING'S ADDITION, COLUMBUS OUTLOTS, PLAT OF SURVEY 10050, PLAT OF SURVEY 8175, PLAT OF SURVEY 4517, PLAT OF SURVEY 4519, PLAT OF SURVEY 4518, PLAT OF SURVEY 7174, PLAT OF SURVEY 7177, PLAT OF SURVEY 14761, PLAT OF SURVEY 12263, PLAT OF SURVEY 4408, PLAT OF SURVEY 13118, PLAT OF SURVEY 7231, PLAT OF SURVEY 13728, CSM 3979, CSM 3982, CSM 3983, CSM 4401, CSM 2143, CSM 3176, CSM 2537, AND THE EXISTING CENTERLINE, AND/OR SECTION, QUARTER, OR 16TH LINES.

EXISTING HIGHWAY RIGHT-OF-WAY FOR AVALON ROAD ESTABLISHED FROM PREVIOUS PROJECTS KESTREL RIDGE, CSM 3143, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR WATERLOO STREET ESTABLISHED FROM PREVIOUS PROJECTS CALDWELL'S ADDITION, CSM 4401, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR FOLSOM STREET ESTABLISHED FROM PREVIOUS PROJECTS FARNHAM COMPANYS ADDITION TO THE CITY OF COLUMBUS, PLAT OF SURVEY 4519, PLAT OF SURVEY 4518, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR POET STREET ESTABLISHED FROM PREVIOUS PROJECTS FARNHAM COMPANYS ADDITION TO THE CITY OF COLUMBUS, D THING'S ADDITION, CSM 2537, PLAT OF SURVEY 4418, PLAT OF SURVEY 7177, PLAT OF SURVEY 12263, PLAT OF SURVEY 14761, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 73 ESTABLISHED FROM PREVIOUS PROJECTS T0247(2) PLAN & PROFILE, COLUMBUS OUTLOTS & CENTERLINE OF EXISTING PAVEMENTS.

4

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3670-01-21-4.01.
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\49XX\4930 STH 89 - COLUMBIA CO\CADDS\########\SHEETSPLAN\040100_RP.DWG
LAYOUT NAME: TPP Title 34x22
PLOT DATE : 9/14/2018 12:55 PM PLOT BY : DREW NELSON PLOT NAME : _____
APPRAISAL PLAT DATE : 02/27/2019

TRANSPORTATION PROJECT PLAT NO: 3670-01-21- 4.01

THAT PART OF LOT 1 OF CSM 3983 V. 27 P. 99 DOC. 688919, LOT 1 OF CSM 4399 V. 31 P. 12 DOC. 731045, LOT 1 OF CSM 3982 V. 27 P. 98 DOC. 688918 AND OUTLOT 3 OF KESTREL RIDGE, PART OF THE SE 1/4 OF THE NW 1/4, ALSO PART OF THE SW 1/4 OF THE NE 1/4, ALL BEING LOCATED IN SECTION 24, TOWNSHIP 10 NORTH, RANGE 12 EAST, CITY OF COLUMBUS, COLUMBIA COUNTY, WISCONSIN.

RELOCATION ORDER STH 89 CITY OF COLUMBUS, FARNHAM STREET (0.32MI S OF AVALON RD TO PARK AVENUE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF COLUMBUS DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22 WISCONSIN STATUTES, THE CITY OF COLUMBUS HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF COLUMBUS, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), COLUMBIA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

EXISTING ACCESS CONTROL ALONG STH 89 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECTS: KESTREL RIDGE, DOC. 725390, CSM 3979, CSM 3983, AND CSM 3982.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF COLUMBUS.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 89 ESTABLISHED FROM PREVIOUS PROJECTS; T0247(2) PLAN & PROFILE, KESTREL RIDGE, CSM 3979, CSM 3983, CSM 3982, PLAT OF SURVEY 10050, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR AVALON ROAD ESTABLISHED FROM PREVIOUS PROJECTS; KESTREL RIDGE, CSM 3143, & CENTERLINE OF EXISTING PAVEMENTS.

* RW WIDTH AS SHOWN IN THIS LOCATION IS TO THE PREVIOUSLY PLATTED R/L AND NOT THE DESIGN R/L THAT IS SHOWN ON THIS PLAT. DIFFERENCE IS MINOR AND HARD TO DEPICT AT THIS SCALE.

FOUND ALUMINUM CAP MON.
Y = 317234.706
X = 654840.859

914551
STATE OF WISCONSIN
COLUMBIA COUNTY
REGISTER OF DEEDS
RECEIVED FOR RECORD
DATE 6/24/19 TIME 8:58AM
Vol 1 Pg 313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3670-01-21-4.01
AMENDMENT NO:
SHEET 1 OF 2

S87°08'06"W, 10.32' 1/4 LINE TO R/W
N87°08'06"E, 35.97' TAN TO R/W
N87°08'06"E, 54.59' R/W TO TAN
S00°01'29"W, 1318.59' MON TO 1/16TH LINE
1/16 LINE
P.L.
STA 15+33.06
PC: 14+64.19
Y = 315847.826
X = 654770.220
TLE - GRADING
PLAT OF SURVEY 7329
SW/NE
1/4 LINE
CITY
N00°01'29"E, 1318.59' MON TO 1/16TH LINE
FOUND 1.25" OD IP
Y = 314597.524
X = 654839.719

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY OF COLUMBUS

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
1	KEVIN J. ADEN AND LAURAL CLARKE, AS JOINT TENANTS	TLE	---	---	---	1214
3	ST. JEROME'S ROMAN CATHOLIC CONGREGATION	TLE	---	---	---	8137
4	KESTREL GOLF PROPERTIES LLC.	TLE	---	---	---	3869
6	WILLIAM N. HOFFMAN	TLE	---	---	---	961
8	JOHNSON'S PROPERTY IN COLUMBUS, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	TLE	---	---	---	1901
12	CITY OF COLUMBUS	FEE,TLE	1119	---	1119	563

ALL AREAS SHOWN IN SQ FT UNLESS OTHERWISE NOTED
*PURPOSE FOR TLE'S IS TO REMOVE & REPLACE SIDE WALK, UNLESS NOTED, BUILDINGS WILL NOT BE AFFECTED

STH 89 CURVE DATA

PI STA = 15+91.41
Y = 315967.475
X = 654813.461
DELTA = 20°07'46" LT
D = 7°59'37"
T = 127.22'
L = 251.82'
R = 716.78'
PC STA = 14+64.19
PT STA = 17+16.01
DA = N0° 15' 36"W

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
T150	2+43.00	37.82'
T151	3+39.00	37.00'
T152	3+39.00	58.00'
T153	3+77.49	58.00'
T154	5+05.00	50.37'
T155	5+05.00	59.00'
T156	8+92.00	59.00'
T157	8+92.00	57.00'
T158	11+00.00	57.00'
T159	11+00.00	60.00'
T160	14+73.00	60.00'
T161	14+73.00	55.00'
T162	15+14.45	55.15'
T163	15+59.81	97.30'
T164	15+57.00	98.00'
T165	15+44.00	47.00'
T166	14+45.00	39.00'
T167	14+45.00	53.00'
T168	13+77.00	53.00'
T169	13+77.00	35.00'
T170	13+00.00	35.00'
T171	13+00.00	40.00'
T172	12+30.00	40.00'
T173	12+30.00	35.18'
T174	4+44.15	36.02'
T175	4+43.79	47.00'
T176	3+80.00	47.00'
T177	3+80.00	40.00'
T178	2+93.00	40.00'
T179	2+93.00	31.49'

RW COURSE TABLE

COURSE	BEARING	DISTANCE
100-101	N19° 22' 41"E	133.27'
101-103	N05° 48' 16"E	72.41'
103-IP15006	N19° 23' 06"E	79.38'
IP15006-104	N19° 54' 35"E	978.65'
104-105	N16° 41' 42"E	8.90'
IP15012-106	S19° 54' 35"W	1022.22'
106-IP15007	S19° 23' 22"W	81.16'
IP15007-107	S19° 22' 41"W	201.47'

RW STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
100	2+43.00	34.60'
# 101	3+76.72	33.68'
103	4+47.27	49.96'
104	15+07.31	48.65'
105	15+16.85	48.55'
106	5+26.02	32.46'
107	2+43.20	31.41'
IP15007	4+44.25	33.01'
IP15012	15+44.19	37.87'
IP15006	5+25.71	50.54

NO TYPE 2 MONUMENT WAS SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE AND STATION & OFFSET DATA FOR ULTIMATE R/W.

PLAT OF SURVEY 10050
SE/NW
OF
COLUMBUS

(204) COLUMBUS WATER & LIGHT (ELECTRIC)
NO RECORD OF EASEMENT - PAR 1, 3, 4, 8

(205) WISCONSIN GAS LLC D/B/A WE ENERGIES
NO RECORD OF EASEMENT - PAR 3, 6

(206) AT&T WISCONSIN (COMMUNICATIONS)
NO RECORD OF EASEMENT - PAR 3, 4

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
204	COLUMBUS WATER & LIGHT (ELECTRIC)	RELEASE OF RIGHTS
205	WISCONSIN GAS LLC D/B/A WE ENERGIES	RELEASE OF RIGHTS
206	AT&T WISCONSIN (COMMUNICATIONS)	RELEASE OF RIGHTS

LOT 1 CSM 3983 V. 27, P. 99 DOC. 688919

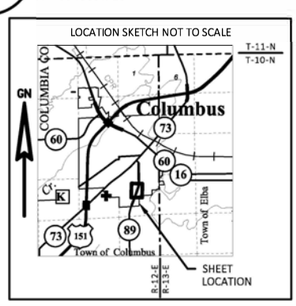
GOLF PATH ACCESS AND MAINTENANCE EASEMENT DOC. 751738
BLANKET INGRESS/EGRESS EASEMENT DOC. 740651

STH 89 (FARNHAM ST)
R =N19°52'11"E
TLE - GRADING 3210 SF
TLE - SIDEWALK 563 SF
ACCESS CONTROL COVENANT DOC. 725390
KESTREL RIDGE OUTLOT 3
AVALON ROAD
PI: 4+51.65
Y = 314895.570
X = 654426.080
DELTA=01°04'04" RT
PLATS OF SURVEY 7330 & 10056
TLE - GRADING
PI: 2+75.61
Y = 314728.918
X = 654369.341
DELTA=00°44'48" LT
R =N18°48'07"E
TLE - DRIVEWAY 961 SF
FUTURE ROAD PER CSM 4399
LOT 1 CSM 4399 V. 31, P. 12 DOC. 731045
TLE - GRADING 659 SF
20' INGRESS/EGRESS EASEMENT PER PLAT OF SURVEY 10056
BP: 2+00.00
Y = 314657.669
X = 654344.042
N70°37'19"W, 34.60' R/L TO R/W
N70°37'19"W, 31.41' R/W TO R/L
R =N19°32'55"E
LOT 1 CSM 3143 V. 21, P. 99 DOC. 596749
OUTLOT 1 CSM 3979 V. 27, P. 95 DOC. 688820
LOT 1 CSM 3979 V. 27, P. 95 DOC. 688820
LOT 1 CSM 3982 V. 27, P. 98 DOC. 688918
N20°48'25"E, 10.83' SECTION LINE TO TRAV. PNT
N86°49'22"E, 2078.60' MON TO R/W
FOUND ALUMINUM CAP MON. Y = 314451.035 X = 652199.642
S86°49'27"W, 71.76' R/W TO R/W
1/4 LINE S86°49'27"W, 493.78' MON TO R/W
FOUND 1.25" OD IP Y = 314597.524 X = 654839.719

GN

Refer to the Title Sheet, recorded as Sheet 2 of 2 for additional information

SCALE, FEET 0 50 100

LOCATION SKETCH NOT TO SCALE


EXISTING MONUMENTS

POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP15005	314707.153	654324.911	1.50" O.D. IRON PIPE
IP15006	314982.397	654403.717	1.25" O.D. IRON PIPE
IP15007	314877.922	654454.938	1.25" O.D. IRON PIPE
IP15008	314901.335	654195.102	1.50" O.D. IRON PIPE
IP15011	315025.307	654102.572	1.25" O.D. IRON PIPE
IP15012	315915.599	654829.985	1.25" O.D. IRON PIPE
IP15081	314575.902	654278.767	1.25" O.D. IRON PIPE
IP15082	314835.509	654369.249	1.25" O.D. IRON PIPE
IP15083	314965.351	654397.719	1.25" O.D. IRON PIPE

emcs.llc

I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF COLUMBUS, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C. BOYER S-2675 HEWITT WI LAND SURVEYOR

SIGNATURE: Kevin C. Boyer DATE: 06/03/2019
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF COLUMBUS
SIGNATURE: DATE:
PRINT NAME: PAT GOEBEL

FILE NAME : P:\49XX\4930 STH 89 – COLUMBIA CO\CADDS\#######\SHEETSPLAN\040101_RP.DWG
APPRAISAL PLAT DATE : 06/03/2019
PLOT DATE : 7/15/2019 9:41 AM
PLOT BY : Drew Nelson
PLOT NAME :
3670-01-21-4.01

TRANSPORTATION PROJECT PLAT NO: 3670-01-21- 4.02

THAT PART OF THE NE 1/4 OF THE NW 1/4, ALSO LOT 1 OF CSM 4401 V. 31 P. 14 DOC. 731047 AND LOTS 6, 7 AND 13 OF CALDWELL'S ADDITION, PART OF THE NW 1/4 OF THE NE 1/4, ALL BEING LOCATED IN SECTION 24, TOWNSHIP 10 NORTH, RANGE 12 EAST, CITY OF COLUMBUS, COLUMBIA COUNTY, WISCONSIN.

RELOCATION ORDER STH 89 CITY OF COLUMBUS, FARNHAM STREET (0.32MI S OF AVALON RD TO PARK AVENUE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF COLUMBUS DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22 WISCONSIN STATUTE, THE CITY OF COLUMBUS HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF COLUMBUS PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), COLUMBIA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

EXISTING ACCESS CONTROL ALONG STH 89 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT: CALDWELL'S ADDITION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF COLUMBUS.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 89 ESTABLISHED FROM PREVIOUS PROJECTS; T0247(2) PLAN & PROFILE, CALDWELL'S ADDITION, CSM 4401, PLAT OF SURVEY 8175, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR WATERLOO STREET ESTABLISHED FROM PREVIOUS PROJECTS; CALDWELL'S ADDITION, CSM 4401, AND CENTERLINE OF EXISTING PAVEMENTS.

* RW WIDTH AS SHOWN IN THIS LOCATION IS TO THE PREVIOUSLY PLATTED R/L AND NOT THE DESIGN R/L THAT IS SHOWN ON THIS PLAT. DIFFERENCE IS MINOR AND HARD TO DEPICT AT THIS SCALE.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE CITY OF COLUMBUS

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
6	WILLIAM N. HOFFMAN	FEE/TLE	268	---	268	6038
9	JOINT SCHOOL DISTRICT NO.1 OF THE CITY OF COLUMBUS, TOWNS OF COLUMBUS AND HAMPDEN, COLUMBIA COUNTY, TOWNS OF ELBA, CALAMUS AND PORTLAND, DODGE COUNTY, AND TOWNS OF YORK AND BRISTOL, DANE COUNTY	TLE	---	---	---	10776
12	CITY OF COLUMBUS	TLE	---	---	---	2301
13	ZACHARY A FRETER AND TANYA M LESTER	TLE	---	---	---	1574
14	EUGENE G. RAKE AND VIRGINIA H. RAKE, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	940
16	ANDREA L. LUEY AND ANTHONY A. LUEY, WIFE AND HUSBAND, AS SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	1042
17	SHIRLEY M HOFFMAN	TLE	---	---	---	216
18	PAMELA B. SANDERSON	TLE	---	---	---	986

ALL AREAS SHOWN IN SQ FT UNLESS OTHERWISE NOTED

*PURPOSE FOR TLE'S IS TO REMOVE & REPLACE SIDE WALK, UNLESS NOTED, BUILDINGS WILL NOT BE AFFECTED

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
T220	15+14.45	55.15'
T221	15+20.00	55.00'
T222	16+00.00	55.00'
T223	17+00.00	56.00'
T224	22+22.00	55.00'
T225	22+22.00	76.00'
T226	22+65.00	76.00'
T227	22+65.00	40.00'
T228	27+56.00	40.00'
T229	27+56.00	51.00'
T230	27+74.00	51.00'
T231	27+74.00	37.00'
T232	28+53.03	38.03'
T233	28+56.93	46.20'
T234	26+84.56	46.01'
T235	22+69.56	45.00'
T236	20+48.00	45.00'
T237	20+48.00	50.00'
T238	19+14.85	50.00'
T239	17+26.24	78.96'
T240	15+59.81	97.30'

RW COURSE TABLE

COURSE	BEARING	DISTANCE
200-201	N16° 41' 42"E	84.60'
201-202	N00° 16' 57"W	611.56'
202-203	N89° 43' 03"E	17.00'
203-204	N00° 16' 57"W	628.02'
205-214	S00° 10' 19"E	1.44'
214-206	S00° 16' 57"E	169.88'
206-207	N89° 43' 03"E	30.00'
207-208	S00° 16' 57"E	415.00'
208-IP15016	S89° 43' 03"W	30.00'
IP15016-IP15072	S00° 16' 57"E	354.70'
IP15072-209	S11° 16' 29"E	207.31'
209-210	S01° 55' 12"E	35.13'
210-211	S88° 32' 37"W	15.25'
211-212	S21° 36' 58"W	85.53'
212-213	S00° 01' 29"W	59.26'

RW STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
200	15+16.85	48.55'
201	16+06.89	41.70'
202	22+25.20	49.75'
203	22+25.21	32.75'
204	28+53.23	33.00'
# 205	28+55.87	33.00'
# 206	26+84.56	33.07'
# 207	26+84.57	63.07'
# 208	22+69.57	63.23'
209	17+11.79	73.00'
210	16+80.00	75.00'
211	16+79.00	59.79'
212	16+01.85	36.42'
213	15+46.91	47.77'
214	28+54.44	33.00'
IP15012	15+44.19	37.87'
IP15016	22+69.56	33.23'
IP15072	19+14.85	33.73'

NO TYPE 2 MONUMENT WAS SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE AND STATION & OFFSET DATA FOR ULTIMATE R/W.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
206	AT&T WISCONSIN (COMMUNICATIONS)	RELEASE OF RIGHTS
207	UNITE PRIVATE NETWORKS LLC (COMMUNICATIONS)	RELEASE OF RIGHTS

206 AT&T WISCONSIN (COMMUNICATIONS)
NO RECORD OF EASEMENT - PAR 6

207 UNITE PRIVATE NETWORKS LLC (COMMUNICATIONS)
NO RECORD OF EASEMENT - PAR 9

STH 89 CURVE DATA

PI STA = 15+91.41
Y = 315967.475
X = 654813.461
DELTA = 20°07'46" LT
D = 7°59'37"
T = 127.22'
L = 251.82'
R = 716.78'
PC STA = 14+64.19
PT STA = 17+16.01
DB = N19° 52' 11"E

EXISTING MONUMENTS

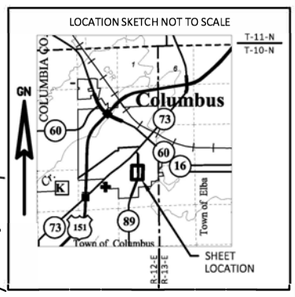
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP15012	315915.599	654829.985	1.25" O.D. IRON PIPE
IP15013	315973.811	654840.295	1.25" O.D. IRON PIPE
IP15014	316233.407	654942.598	1.25" O.D. IRON PIPE
IP15015	316648.801	654874.496	2.50" O.D. IRON PIPE
IP15016	316648.388	654843.605	2.50" O.D. IRON PIPE
IP15019	317063.26	654871.645	2.50" O.D. IRON PIPE
IP15020	317063.122	654841.631	2.50" O.D. IRON PIPE
IP15072	316293.691	654845.355	1.75" O.D. IRON PIPE
IP15073	316293.911	654895.768	1.75" O.D. IRON PIPE (BENT)
IP15074	316545.833	654995.272	1.25" O.D. IRON PIPE
IP15075	316704.178	655058.003	1.25" O.D. SQUARE IRON PIPE
IP15076	316754.011	655148.212	1.25" O.D. IRON PIPE
IP15077	316679.525	655119.515	1.25" O.D. IRON PIPE

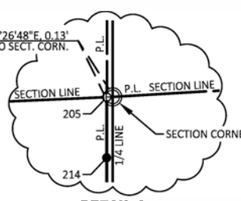
Refer to the Title Sheet, recorded as Sheet 2 of 2, in Volume 1, Page 113, as Document No. 914551 for additional information

916518
STATE OF WISCONSIN
COLUMBIA COUNTY
REGISTER OF DEEDS
RECEIVED FOR RECORD
DATE 8/7/19 TIME 10:35 AM
Vol 1 Pg 315

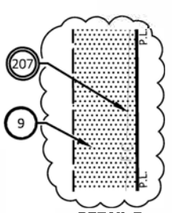
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3670-01-21-4.02
AMENDMENT NO:___

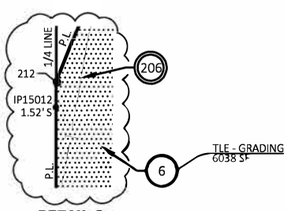
LOCATION SKETCH NOT TO SCALE





DETAIL A


DETAIL B



DETAIL C

emcs.llc

I, KEVIN C. BOY
FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF COLUMBUS, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kevin C. Boyer DATE: 06/17/2019
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

WISCONSIN KEVIN C. BOYER S-2675 HEWITT WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF COLUMBUS

SIGNATURE: _____ DATE: _____
PRINT NAME: PAT GOEBEL 8/7/19

3670-01-21-4.02
PLOT NAME :
PLOT BY : Drew Nelson
PLOT DATE : 7/15/2019 9:43 AM
PLOT DATE :
PLOT DATE :
FILE NAME : P:\49XX\4930 STH 89 - COLUMBIA CO\CADDS\#####\SHEETSPLAN\040102_RP.DWG
APPRAISAL PLAT DATE : 06/17/2019

DocuSign Envelope ID: C43A86B8-B57F-4F28-B7AD-D834718EDF9B

TRANSPORTATION PROJECT PLAT NO: 3670-01-21- 4.02 AMENDMENT NO. 1

AMENDMENT REMOVES UTILITY NUMBER 207 AND ADDS PARCEL 106 OF TRANSPORTATION PROJECT PLAT 3670-01-21-4.02 RECORDED AS DOCUMENT NO: 916518

THAT PART OF THE NE 1/4 OF THE NW 1/4, ALSO LOT 1 OF CSM 4401 V. 31 P. 14 DOC. 731047 AND LOTS 6, 7 AND 13 OF CALDWELL'S ADDITION, PART OF THE NW 1/4 OF THE NE 1/4, ALL BEING LOCATED IN SECTION 24, TOWNSHIP 10 NORTH, RANGE 12 EAST, CITY OF COLUMBUS, COLUMBIA COUNTY, WISCONSIN.

RELOCATION ORDER STH 89 CITY OF COLUMBUS, FARNHAM STREET (0.32MI S OF AVALON RD TO PARK AVENUE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF COLUMBUS DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22 WISCONSIN STATUTE, THE CITY OF COLUMBUS HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF COLUMBUS PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), COLUMBIA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

EXISTING ACCESS CONTROL ALONG STH 89 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT: CALDWELL'S ADDITION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF COLUMBUS.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 89 ESTABLISHED FROM PREVIOUS PROJECTS; T0247(2) PLAN & PROFILE, CALDWELL'S ADDITION, CSM 4401, PLAT OF SURVEY 8175, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR WATERLOO STREET ESTABLISHED FROM PREVIOUS PROJECTS; CALDWELL'S ADDITION, CSM 4401, AND CENTERLINE OF EXISTING PAVEMENTS.

* RW WIDTH AS SHOWN IN THIS LOCATION IS TO THE PREVIOUSLY PLATTED R/L AND NOT THE DESIGN R/L THAT IS SHOWN ON THIS PLAT. DIFFERENCE IS MINOR AND HARD TO DEPICT AT THIS SCALE.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE CITY OF COLUMBUS			
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
6	WILLIAM N. HOFFMAN	FEE/TLE	268	---	268	6038
106	WILLIAM N. HOFFMAN	FEE/TLE	14394	---	14394	844
9	JOINT SCHOOL DISTRICT NO.1 OF THE CITY OF COLUMBUS, TOWNS OF COLUMBUS AND HAMPDEN, COLUMBIA COUNTY, TOWNS OF ELBA, CALAMUS AND PORTLAND, DODGE COUNTY, AND TOWNS OF YORK AND BRISTOL, DANE COUNTY	TLE	---	---	---	10776
12	CITY OF COLUMBUS	TLE	---	---	---	2301
13	ZACHARY A FRETER AND TANYA M LESTER	TLE	---	---	---	1574
14	EUGENE G. RAKE AND VIRGINIA H. RAKE, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	940
16	ANDREA L. LUEY AND ANTHONY A. LUEY, WIFE AND HUSBAND, AS SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	1042
17	SHIRLEY M HOFFMAN	TLE	---	---	---	216
18	PAMELA B. SANDERSON	TLE	---	---	---	986
ALL AREAS SHOWN IN SQ FT UNLESS OTHERWISE NOTED						
*PURPOSE FOR TLE'S IS TO REMOVE & REPLACE SIDE WALK, UNLESS NOTED, BUILDINGS WILL NOT BE AFFECTED						

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
T220	15+14.45	55.15'
T221	15+20.00	55.00'
T222	16+00.00	55.00'
T223	17+00.00	56.00'
T224	22+22.00	55.00'
T225	22+22.00	76.00'
T226	22+65.00	76.00'
T227	22+65.00	40.00'
T228	27+56.00	40.00'
T229	27+56.00	51.00'
T230	27+74.00	51.00'
T231	27+74.00	37.00'
T232	28+53.03	38.03'
T233	28+56.93	46.20'
T234	26+84.56	46.01'
T235	22+69.56	45.00'
T236	20+48.00	45.00'
T237	20+48.00	50.00'
T238	19+14.85	50.00'
T239	17+26.24	78.96'
T240	15+59.81	97.30'
T241	17+10.99	127.00'
T242	15+72.26	151.92'

RW COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	N16° 41' 42"E	84.60'
201-202	N00° 16' 57"W	611.56'
202-203	N89° 43' 03"E	17.00'
203-204	N00° 16' 57"W	628.02'
205-214	S00° 10' 19"E	1.44'
214-206	S00° 16' 57"E	169.88'
206-207	N89° 43' 03"E	30.00'
207-208	S00° 16' 57"E	415.00'
208-IP15016	S89° 43' 03"W	30.00'
IP15016-IP15072	S00° 16' 57"E	354.70'
IP15072-215	S14° 01' 26"E	193.21'
215-216	S68° 23' 02"E	45.95'
216-217	S02° 48' 36"E	167.55'
217-213	S86° 44' 26"W	102.98'
215-209	S21° 36' 58"W	17.07'
209-210	S01° 55' 12"E	35.13'
210-211	S88° 32' 37"W	15.25'
211-212	S21° 36' 58"W	85.53'
212-213	S00° 01' 29"W	59.26'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
200	15+16.85	48.55'
201	16+06.89	41.70'
202	22+25.20	49.75'
203	22+25.21	32.75'
204	28+53.23	33.00'
# 205	28+55.87	33.00'
# 206	26+84.56	33.07'
# 207	26+84.57	63.07'
# 208	22+69.57	63.23'
209	17+11.79	73.00'
210	16+80.00	75.00'
211	16+79.00	59.79'
212	16+01.85	36.42'
213	15+46.91	47.77'
214	28+54.44	33.00'
215	17+27.20	79.34'
216	17+10.94	122.00'
217	15+71.21	147.00'
IP15012	15+44.19	37.87'
IP15016	22+69.56	33.23'
IP15072	19+14.85	33.73'

NO TYPE 2 MONUMENT WAS SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE AND STATION & OFFSET DATA FOR ULTIMATE R/W.

UTILITY INTERESTS REQUIRED

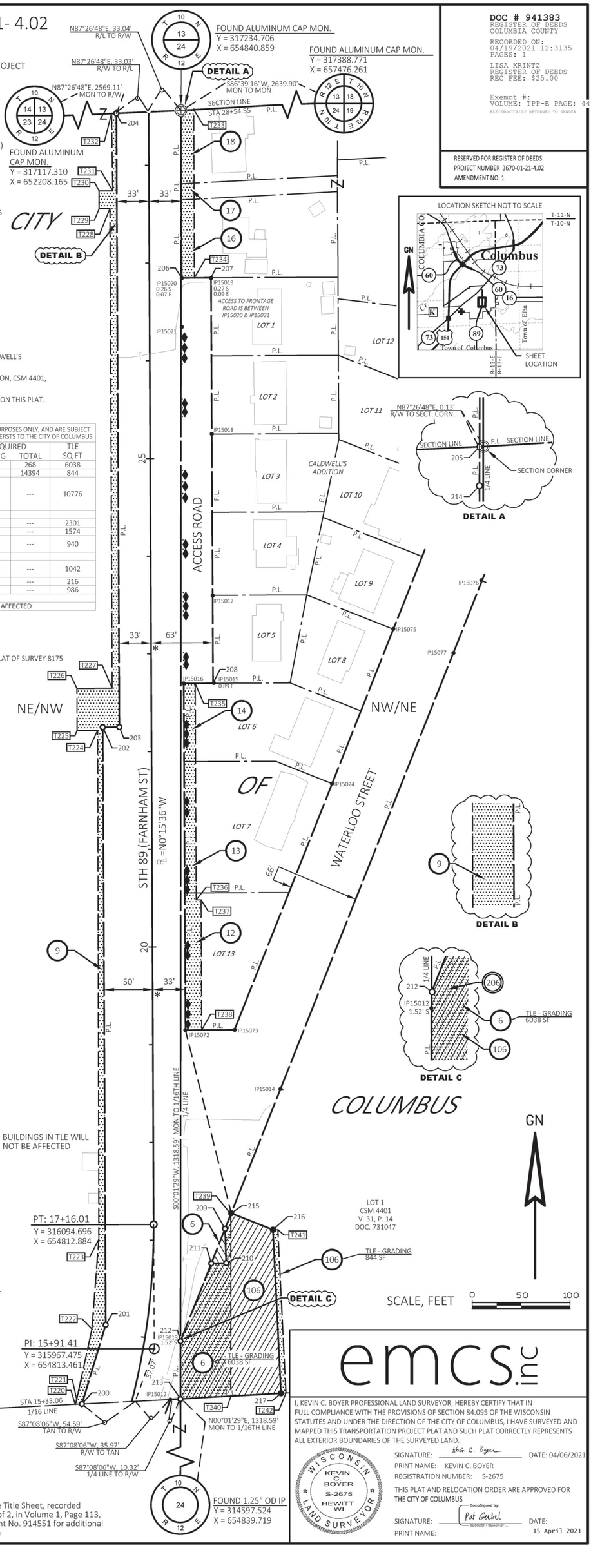
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
206	AT&T WISCONSIN (COMMUNICATIONS)	RELEASE OF RIGHTS

206 AT&T WISCONSIN (COMMUNICATIONS) NO RECORD OF EASEMENT - PAR 6, 106

STH 89 CURVE DATA
PI STA = 15+91.41
Y = 315967.475
X = 654813.461
DELTA = 20°07'46" LT
D = 7°59'37"
T = 127.22'
L = 251.82'
R = 716.78'
PC STA = 14+64.19
PT STA = 17+16.01
DB = N19° 52' 11"E

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP15012	315915.599	654829.985	1.25" O.D. IRON PIPE
IP15013	315973.811	654840.295	1.25" O.D. IRON PIPE
IP15014	316233.407	654942.598	1.25" O.D. IRON PIPE
IP15015	316648.801	654874.496	2.50" O.D. IRON PIPE
IP15016	316648.388	654843.605	2.50" O.D. IRON PIPE
IP15019	317063.26	654871.645	2.50" O.D. IRON PIPE
IP15020	317063.122	654841.631	2.50" O.D. IRON PIPE
IP15072	316293.691	654845.355	1.75" O.D. IRON PIPE
IP15073	316293.911	654895.768	1.75" O.D. IRON PIPE (BENT)
IP15074	316545.833	654995.272	1.25" O.D. IRON PIPE
IP15075	316704.178	655058.003	1.25" O.D. SQUARE IRON PIPE
IP15076	316754.011	655148.212	1.25" O.D. IRON PIPE
IP15077	316679.525	655119.515	1.25" O.D. IRON PIPE

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Volume 1, Page 113, as Document No. 914551 for additional information



DOC # 941383
REGISTER OF DEEDS
COLUMBIA COUNTY
RECORDED ON: 04/19/2021 12:31:35
PAGES: 1
LISA KRINTZ
REGISTER OF DEEDS
REC FEE: $25.00
Exempt #:
VOLUME: TPP-E PAGE: 44
ELECTRONICALLY RETURNED TO SENDER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3670-01-21-4.02
AMENDMENT NO: 1

emcs.inc

I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF COLUMBUS, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kevin C. Boyer DATE: 04/06/2021
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

WISCONSIN KEVIN C. BOYER S-2675 HEWITT WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF COLUMBUS

SIGNATURE: DocuSigned by: Pat Goehrl DATE: 15 April 2021
PRINT NAME:

3670-01-21-4.02-A1
PLOT NAME :
PLOT BY : Drew Nelson
PLOT DATE : 4/6/2021 7:10 AM
PLOT DATE :
PLOT DATE :
FILE NAME : P:\49XX\4930 STH 89 - COLUMBIA CO\CADDS\#####\SHEETSPLAN\040102_RP_1.DWG
APPRAISAL PLAT DATE : 04/06/2021

TRANSPORTATION PROJECT PLAT NO: 3670-01-21- 4.03

THAT PART OF LOTS 1, 2, 3, 4, 5, 6, 7 AND 8 OF BLOCK 1 OF FARNHAM AND COMPANYS ADDITION TO THE CITY OF COLUMBUS, PART OF THE SE 1/4 OF THE SW 1/4, ALSO PART OF LOT 1 OF CSM 2143 V. 13 P. 35 DOC. 529193, AND PART OF LOT 11 OF BLOCK 2 OF FARNHAM AND COMPANYS ADDITION TO THE CITY OF COLUMBUS, PART OF THE SW 1/4 OF THE SE 1/4, ALL BEING LOCATED IN SECTION 13, TOWNSHIP 10 NORTH, RANGE 12 EAST, CITY OF COLUMBUS, COLUMBIA COUNTY, WISCONSIN.

RELOCATION ORDER STH 89 CITY OF COLUMBUS, FARNHAM STREET (0.32MI S OF AVALON RD TO PARK AVENUE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF COLUMBUS DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22 WISCONSIN STATUTES, THE CITY OF COLUMBUS HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF COLUMBUS, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), COLUMBIA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF COLUMBUS.

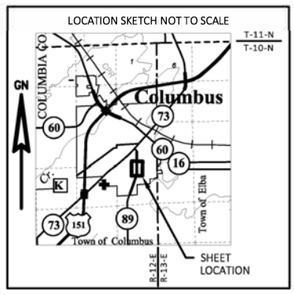
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 89 ESTABLISHED FROM PREVIOUS PROJECTS; T0247(2) PLAN & PROFILE, FARNHAM AND COMPANYS ADDITION TO THE CITY OF COLUMBUS, ASSESSOR'S RE-PLAT OF PORTIONS OF THE CITY OF COLUMBUS, CSM 2143, PLAT OF SURVEY 4517, PLAT OF SURVEY 4519, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR FOLSOM STREET ESTABLISHED FROM PREVIOUS PROJECTS; FARNHAM COMPANYS ADDITION TO THE CITY OF COLUMBUS, PLAT OF SURVEY 4519, & CENTERLINE OF EXISTING PAVEMENTS.

* RW WIDTH AS SHOWN IN THIS LOCATION IS TO THE PREVIOUSLY PLATTED R/L AND NOT THE DESIGN R/L THAT IS SHOWN ON THIS PLAT. DIFFERENCE IS MINOR AND HARD TO DEPICT AT THIS SCALE.

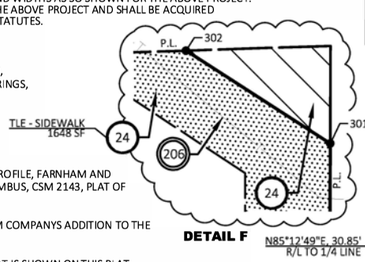
LOCATION SKETCH NOT TO SCALE



916517
STATE OF WISCONSIN
COLUMBIA COUNTY
REGISTER OF DEEDS
RECEIVED FOR RECORD
DATE 7/17 TIME 10:35 AM
Vol 1 Pg 314A

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3670-01-21-403
AMENDMENT NO:

SCALE, FEET 0 50 100



FOUND DRILL HOLE
Y = 322540.496
X = 654840.658

N85°12'49"E, 30.85' R/L TO 1/4 LINE
N85°12'49"E, 33.02' R/W TO R/L
S00°00'08"E, 4475.76' MON TO MATCHLINE
N85°12'49"E, 2.37' 1/4 LINE TO R/W

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE CITY OF COLUMBUS				
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
9	JOINT SCHOOL DISTRICT NO.1 OF THE CITY OF COLUMBUS, TOWNS OF COLUMBUS AND HAMPDEN, COLUMBIA COUNTY, TOWNS OF ELBA, CALAMUS AND PORTLAND, DODGE COUNTY, AND TOWNS OF YORK AND BRISTOL, DANE COUNTY	TLE	---	---	---	3132
21	COLUMBUS SCHOOL DISTRICT, COLUMBUS, WISCONSIN	TLE	---	---	---	653
22	ALBERT W. MERCK AND FAYAN M. MERCK, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	698
23	HOMZ DEVELOPMENT CORPORATION	TLE	---	---	---	1223
24	J & M SUN PRAIRIE LLC	FEE/TLE	80	---	80	1648
26	FREDRICK W. GOETSCH AND PEGGY S. GOETSCH, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	1281
27	JASON R. WEISSMANN	TLE	---	---	---	634
28	JENNIFER R. BARNETT TRUST	TLE	---	---	---	2015
29	MARLYS WEIHERT	TLE	---	---	---	1200
31	KIM M. GUERRIERI	TLE	---	---	---	730
32	COLUMBUS PROPERTIES, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	TLE	---	---	---	1529
33	AUDREY L. WALTER	TLE	---	---	---	1208
34	HUNTER G. PERRY	TLE	---	---	---	1671

ALL AREAS SHOWN IN SQ FT UNLESS OTHERWISE NOTED
*PURPOSE FOR TLE'S IS TO REMOVE & REPLACE SIDEWALK, UNLESS NOTED, BUILDINGS WILL NOT BE AFFECTED

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
T320	28+53.03	38.03'
T321	29+50.00	40.00'
T322	29+50.00	44.00'
T323	30+12.00	44.00'
T324	30+12.00	42.00'
T325	33+13.00	42.00'
T326	33+13.00	46.00'
T327	34+38.00	47.00'
T328	34+38.00	42.00'
T329	36+04.00	42.00'
T330	36+14.47	58.00'
T331	36+16.71	58.00'
T332	36+21.01	45.50'
T333	35+61.00	45.50'
T334	35+61.00	51.50'
T335	34+19.00	51.50'
T336	34+19.00	41.50'
T337	32+77.00	41.50'
T338	32+77.00	51.00'
T339	30+64.00	51.00'
T340	30+64.00	42.00'
T341	30+22.00	42.00'
T342	30+22.00	47.00'
T343	30+00.00	47.00'
T344	30+00.00	40.00'
T345	28+89.00	40.00'
T346	28+89.00	46.00'
T347	28+56.93	46.20'

RW COURSE TABLE		
COURSE	BEARING	DISTANCE
300-307	N00° 16' 57"W	1.44'
307-301	N00° 10' 19"E	752.76'
301-302	N57° 14' 13"W	18.32'
302-IP15039	N13° 47' 29"E	65.43'
303-304	S00° 08' 41"W	66.13'
304-306	S00° 10' 19"W	764.11'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
300	28+53.23	33.00'
301	36+07.19	33.00'
302	36+17.05	48.36'
303	36+86.31	33.10'
304	36+20.23	33.08'
# 306	28+55.87	33.00'
307	28+54.67	33.00'
IP15039	36+80.69	32.90'

NO TYPE 2 MONUMENT WAS SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE AND STATION & OFFSET DATA FOR UTILITY R/W.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
206	AT&T WISCONSIN (COMMUNICATIONS)	RELEASE OF RIGHTS
207	UNITE PRIVATE NETWORKS LLC (COMMUNICATIONS)	RELEASE OF RIGHTS

206 AT&T WISCONSIN (COMMUNICATIONS)
NO RECORD OF EASEMENT - PAR 24, 32

207 UNITE PRIVATE NETWORKS LLC (COMMUNICATIONS)
NO RECORD OF EASEMENT - PAR 9

FOLSOM STREET
PI: 36+52.83
Y = 318031.506
X = 654810.039
DELTA=00°05'10" LT
℄ =N0°04'52"E
36+83.49
63'
66'

FOLSOM STREET

CITY OF COLUMBUS

SW/SE

SE/SW

STH 89 (FARNHAM ST)
℄ =N0°10'02"E
33' 33'

PI: 28+56.08
Y = 317234.759
X = 654807.713
DELTA=00°25'38" RT
D8=S00°15'36"E

FOUND ALUMINUM CAP MON.
Y = 317117.310
X = 652208.165

FOUND ALUMINUM CAP MON.
Y = 317388.771
X = 657476.261

FOUND ALUMINUM CAP MON.
Y = 317234.706
X = 654840.859

N87°26'48"E, 2569.11' SECTION LINE
MON TO R/W
S86°39'16"W, 2639.90' MON TO MON
SECTION LINE
S87°26'48"W, 33.03' R/L TO R/W
S87°26'48"W, 33.04' R/W TO R/L
S00°00'08"E, 830.03' TIE TO SECTION LINE
STA 28+54.55

TLE - SIDEWALK 1671 SF
TLE - SIDEWALK 1648 SF
NOTE: 34' BLDG TO FEE

PLAT OF SURVEY 4519
PLAT OF SURVEY 4517

FARNHAM AND COMPANYS ADDITION TO THE THE CITY OF COLUMBUS
BLOCK 1
BLOCK 2

FARNHAM AND COMPANYS ADDITION TO THE THE CITY OF COLUMBUS
(ASSESSOR'S RE-PLAT OF PORTIONS OF THE CITY OF COLUMBUS)

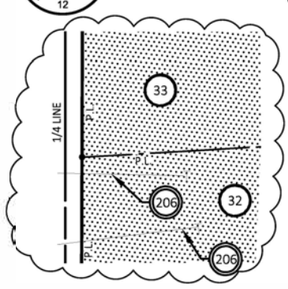
LOT 1 CSM 2143 V. 13, P. 35 DOC. 529193

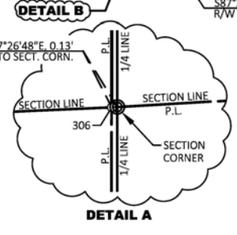
10' INGRESS/EGRESS EASEMENT V. 226 P. 314 DOC. 261160

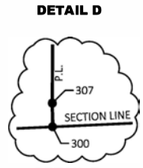
LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 LOT 9 LOT 10 LOT 11
(LOT A) (LOT C) (LOT D) (LOT E) (LOT F)

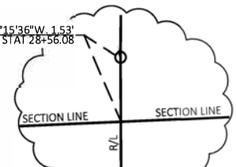
1/4 LINE

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Volume 1, Page 113, as Document No. 914551 for additional information









EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP15022	317384.057	654841.100	1.00" IRON ROD
IP15023	317443.917	654841.367	1.00" O.D. IRON PIPE
IP15025	317622.854	654841.351	1.00" O.D. IRON PIPE
IP15026	317673.119	654841.993	1.50" O.D. IRON PIPE
IP15027	317823.014	654842.515	1.25" O.D. IRON PIPE
IP15028	317891.591	654842.669	1.25" O.D. IRON PIPE
IP15029	318016.376	655132.357	1.25" O.D. IRON PIPE
IP15034	318084.004	655161.393	1.25" O.D. IRON PIPE
IP15035	318079.787	655092.036	0.75" IRON ROD
IP15036	318075.594	655019.479	1.00" O.D. IRON PIPE
IP15037	318070.692	654939.675	1.00" O.D. IRON PIPE
IP15038	318065.375	654843.197	2.50" O.D. IRON PIPE
IP15039	318059.407	654777.175	2.00" O.D. IRON PIPE
IP15042	317819.435	654776.369	1.50" O.D. IRON PIPE
IP15043	317729.469	654776.269	1.25" O.D. IRON PIPE
IP15044	317597.280	654775.742	1.00" O.D. IRON PIPE

emcs.llc

I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF COLUMBUS, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C. BOYER S-2675 HEWITT WI LAND SURVEYOR

SIGNATURE: Kevin C. Boyer DATE: 06/26/2019
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF COLUMBUS

SIGNATURE: Pat Goebel DATE: 8/7/19
PRINT NAME: PAT GOEBEL

3670-01-21-4.03
PLOT NAME :
PLOT BY : Drew Nelson
PLOT DATE : 7/15/2019 9:46 AM
PLOT DATE :
PLOT DATE :
FILE NAME : P:\49XA\4930 STH 89 – COLUMBIA CO\CADDS\#####\SHEETSPLAN\040103_RP.DWG
APPRAISAL PLAT DATE : 06/26/2019

TRANSPORTATION PROJECT PLAT NO: 3670-01-21- 4.04

THAT PART OF LOTS 9,10,11,12 & 13 OF BLOCK 1 OF FARNHAM AND COMPANYS ADDITION TO THE CITY OF COLUMBUS, LOCATED IN THE SE 1/4 OF THE SW 1/4, ALSO LOTS 1 & 31 OF BLOCK 1 OF D THING'S ADDITION AND LOT 7 OF BLOCK 3 OF FARNHAM AND COMPANYS ADDITION TO THE CITY OF COLUMBUS, PART OF THE SW 1/4 OF THE SE 1/4, ALL BEING LOCATED IN SECTION 13, TOWNSHIP 10 NORTH, RANGE 12 EAST, CITY OF COLUMBUS, COLUMBIA COUNTY, WISCONSIN.

RELOCATION ORDER STH 89 CITY OF COLUMBUS, FARNHAM STREET (0.32MI S OF AVALON RD TO PARK AVENUE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF COLUMBUS DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22 WISCONSIN STATUTE, THE CITY OF COLUMBUS HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF COLUMBUS, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), COLUMBIA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF COLUMBUS.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 89 ESTABLISHED FROM PREVIOUS PROJECTS; T0247(2) PLAN & PROFILE, FARNHAM AND COMPANYS ADDITION TO THE CITY OF COLUMBUS, D THING'S ADDITION, PLAT OF SURVEY 4518, PLAT OF SURVEY 7174, PLAT OF SURVEY 7177, PLAT OF SURVEY 12263, PLAT OF SURVEY 14761, & CENTERLINE OF EXISTING PAVEMENTS.

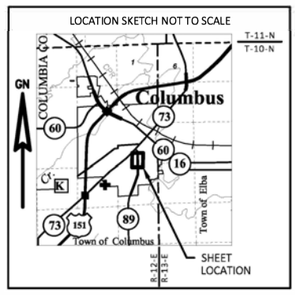
EXISTING HIGHWAY RIGHT-OF-WAY FOR FOLSOM STREET ESTABLISHED FROM PREVIOUS PROJECTS; FARNHAM AND COMPANYS ADDITION TO THE CITY OF COLUMBUS, PLAT OF SURVEY 4518, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR POET STREET ESTABLISHED FROM PREVIOUS PROJECTS; FARNHAM AND COMPANYS ADDITION TO THE CITY OF COLUMBUS, D THING'S ADDITION, CSM 2537, PLAT OF SURVEY 4418, PLAT OF SURVEY7177, PLAT OF SURVEY 12263, PLAT OF SURVEY, 14761, & CENTERLINE OF EXISTING PAVEMENTS.

* RW WIDTH AS SHOWN IN THIS LOCATION IS TO THE PREVIOUSLY PLATTED R/L AND NOT THE DESIGN R/L THAT IS SHOWN ON THIS PLAT. DIFFERENCE IS MINOR AND HARD TO DEPICT AT THIS SCALE.

GN

LOCATION SKETCH NOT TO SCALE



SCALE, FEET 0 50 100

916519
STATE OF WISCONSIN
COLUMBIA COUNTY
REGISTER OF DEEDS
RECEIVED FOR RECORD
DATE 7/17/19 TIME 10:35AM
Sylvia A. Manke
Vol 1 Pg 315A

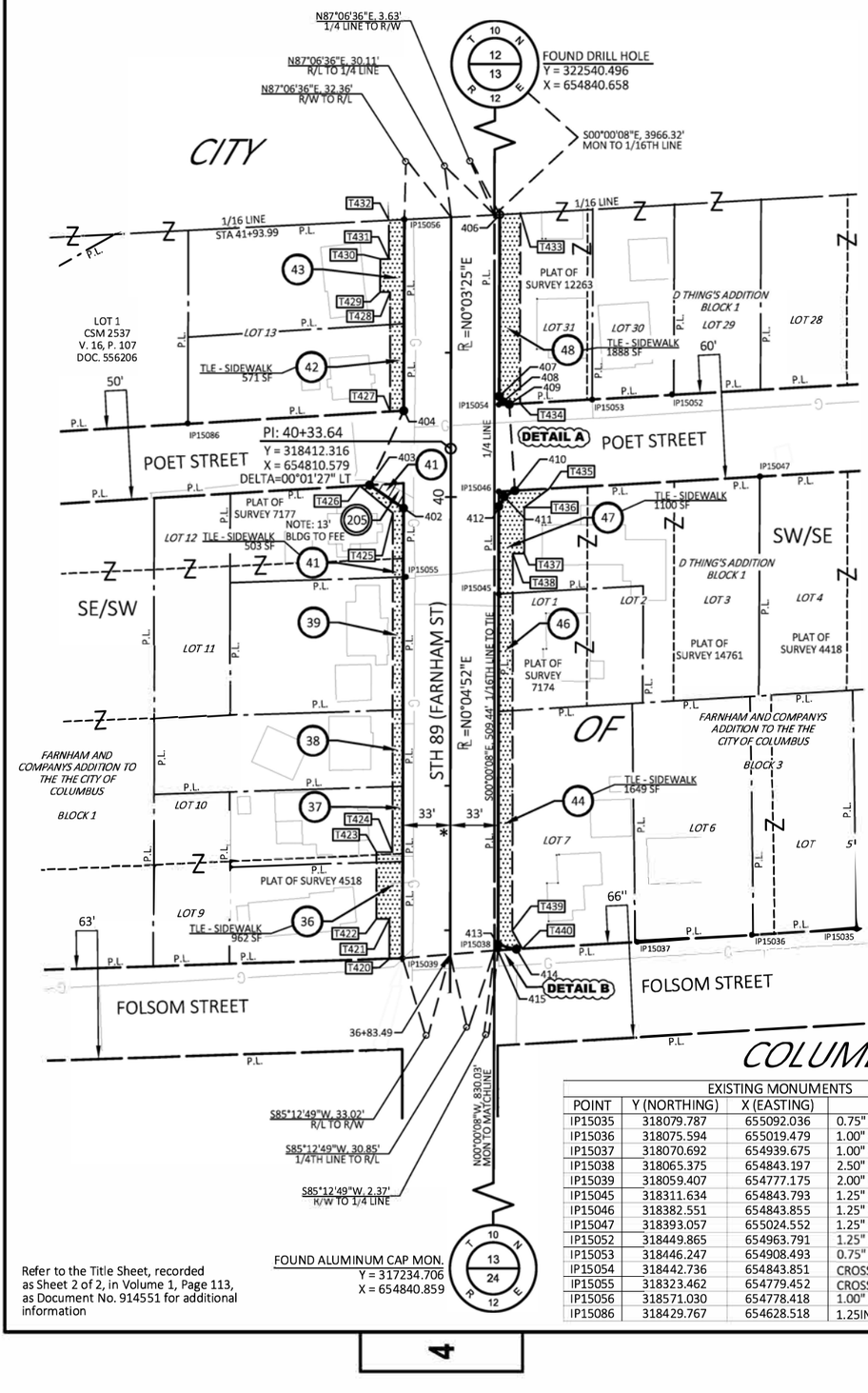
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3670-01-21-4.04
AMENDMENT NO:___

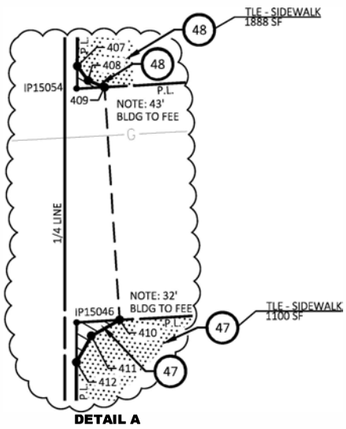
SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE CITY OF COLUMBUS				
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
36	CASSIDY CULBERT ANDERSON, A MARRIED PERSON	TLE	---	---	---	962
37	RUTH A. BECRAFT	TLE	---	---	---	448
38	DAVID L. SCHRAUFNAGEL AND DONNA M. SCHRAUFNAGEL, HUSBAND AND WIFE, AS SURVIVORSHIPMARITAL PROPERTY	TLE	---	---	---	382
39	CHARITY M. STROHBEEN, A SINGLE PERSON	TLE	---	---	---	667
41	ZACHARY L. GADICKE	FEE/TLE	204	---	204	503
42	SHERI L. BEARD	TLE	---	---	---	571
43	TERRY D. HARDESTY AND KRISTEN K. HARDESTY, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	881
44	DAVID M. OLSON	FEE/TLE	24	---	24	1649
46	TODD A. WEISMAN AND AGELIQUE D. WEISMAN HUSBAND AND WIFE, SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	794
47	DONALD EUGENE KOVACS, JR AND VESNA KOVACH, HUSBAND AND WIFE	FEE/TLE	40	---	40	1100
48	ROSA I. SERRATO	FEE/TLE	15	---	15	1888
ALL AREAS SHOWN IN SQ FT UNLESS OTHERWISE NOTED						
*PURPOSE FOR TLE'S IS TO REMOVE & REPLACE SIDE WALK, UNLESS NOTED, BUILDINGS WILL NOT BE AFFECTED						

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
T420	36+80.38	42.00'
T421	37+08.00	42.00'
T422	37+08.00	51.00'
T423	37+54.00	51.00'
T424	37+54.00	40.00'
T425	39+89.00	40.00'
T426	40+07.85	63.00'
T427	40+59.26	42.00'
T428	41+42.00	42.00'
T429	41+42.00	49.00'
T430	41+65.00	49.00'
T431	41+65.00	43.08'
T432	41+91.78	43.00'
T433	41+96.51	48.00'
T434	40+64.87	48.00'
T435	40+05.97	68.00'
T436	39+93.00	51.00'
T437	39+61.00	51.00'
T438	39+61.00	43.00'
T439	37+00.00	43.00'
T440	36+87.35	50.00'

RW COURSE TABLE		
COURSE	BEARING	DISTANCE
IP15039-402	N00° 07' 14"E	311.64'
402-403	N55° 43' 57"W	28.37'
403-404	N24° 37' 40"E	56.67'
404-IP15056	N00° 10' 48"E	132.50'
406-407	S00° 10' 48"W	125.85'
407-408	S36° 36' 03"E	4.61'
408-409	S67° 40' 01"E	4.61'
409-410	S03° 41' 58"E	60.00'
410-411	S60° 27' 35"W	8.38'
411-412	S29° 11' 00"W	7.78'
412-413	S00° 07' 14"W	303.53'
413-414	S76° 39' 58"E	13.16'
414-415	S86° 33' 59"W	12.84'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
402	39+92.33	32.69'
403	40+08.27	56.16'
404	40+59.83	32.60'
406	41+95.73	33.69'
407	40+69.88	33.42'
408	40+66.18	36.17'
409	40+64.43	40.44'
410	40+04.58	44.38'
411	40+00.43	37.09'
412	39+93.64	33.31'
413	36+90.11	33.10'
414	36+87.10	45.91'
415	36+86.31	33.10'
IP15039	36+80.69	32.90'
IP15056	41+92.33	32.32'





Refer to the Title Sheet, recorded as Sheet 2 of 2, in Volume 1, Page 113, as Document No. 914551 for additional information

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP15035	318079.787	655092.036	0.75" IRON ROD
IP15036	318075.594	655019.479	1.00" O.D. IRON PIPE
IP15037	318070.692	654939.675	1.00" O.D. IRON PIPE
IP15038	318065.375	654843.197	2.50" O.D. IRON PIPE
IP15039	318059.407	654777.175	2.00" O.D. IRON PIPE
IP15045	318311.634	654843.793	1.25" O.D. IRON PIPE
IP15046	318382.551	654843.855	1.25" O.D. IRON PIPE
IP15047	318393.057	655024.552	1.25" O.D. IRON PIPE
IP15052	318449.865	654963.791	1.25" O.D. IRON PIPE
IP15053	318446.247	654908.493	0.75" O.D. IRON PIPE W/CAP
IP15054	318442.736	654843.851	CROSS ON CONCRETE
IP15055	318323.462	654779.452	CROSS ON CONCRETE
IP15056	318571.030	654778.418	1.00" O.D. IRON PIPE
IP15086	318429.767	654628.518	1.25IN OD IP

205 WISCONSIN GAS LLC D/B/A WE ENERGIES
NO RECORD OF EASEMENT - PAR 41

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
205	WISCONSIN GAS LLC D/B/A WE ENERGIES	RELEASE OF RIGHTS

emcs.llc

I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF COLUMBUS, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

SIGNATURE: Kevin C. Boyer DATE: 06/17/2019
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF COLUMBUS

SIGNATURE: DATE: 8/7/19
PRINT NAME: PAT GOEBEL

3670-01-21-4.04
PLOT NAME:
PLOT BY: Drew Nelson
PLOT DATE: 7/15/2019 9:48 AM
PLOT DATE:
PLOT DATE:
FILE NAME: P:\49XX\4930 STH 89 – COLUMBIA CO\CADDS\#######\SHEETSPLAN\040104_RP.DWG
APPRAISAL PLAT DATE: 06/17/2019

TRANSPORTATION PROJECT PLAT NO: 3670-01-21- 4.05

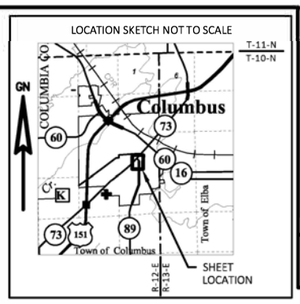
THAT PART OF LOT 1 OF CSM 2537 V. 16 P. 107 DOC. 556206, LOTS 1 ,2 & 3 OF CSM 3176 V. 21 P. 41 DOC. 601043 AND OUTLOTS 86, 89 AND 95 OF COLUMBUS OUTLOTS, LOCATED IN THE NE 1/4 OF THE SW 1/4, ALSO OUTLOT 57 OF COLUMBUS OUTLOTS, PART OF LOT 31 BLOCK 1 OF D THINGS ADDITION, LOCATED IN THE NW 1/4 OF THE SE 1/4 ,ALL BEING LOCATED IN SECTION 13, TOWNSHIP 10 NORTH, RANGE 12 EAST, CITY OF COLUMBUS, COLUMBIA COUNTY, WISCONSIN.

RELOCATION ORDER STH 89 CITY OF COLUMBUS, FARNHAM STREET (0.32MI S OF AVALON RD TO PARK AVENUE)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF COLUMBUS DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22 WISCONSIN STATUTES, THE CITY OF COLUMBUS HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF COLUMBUS, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



STATE OF WISCONSIN
COLUMBIA COUNTY
REGISTER OF DEEDS
RECEIVED FOR RECORD
DATE 7-11-19 TIME 2:00 p.m.
Karen A Manke
Vol 1 Page 313A
915570

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3670-01-21-4.05
AMENDMENT NO:___

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), COLUMBIA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

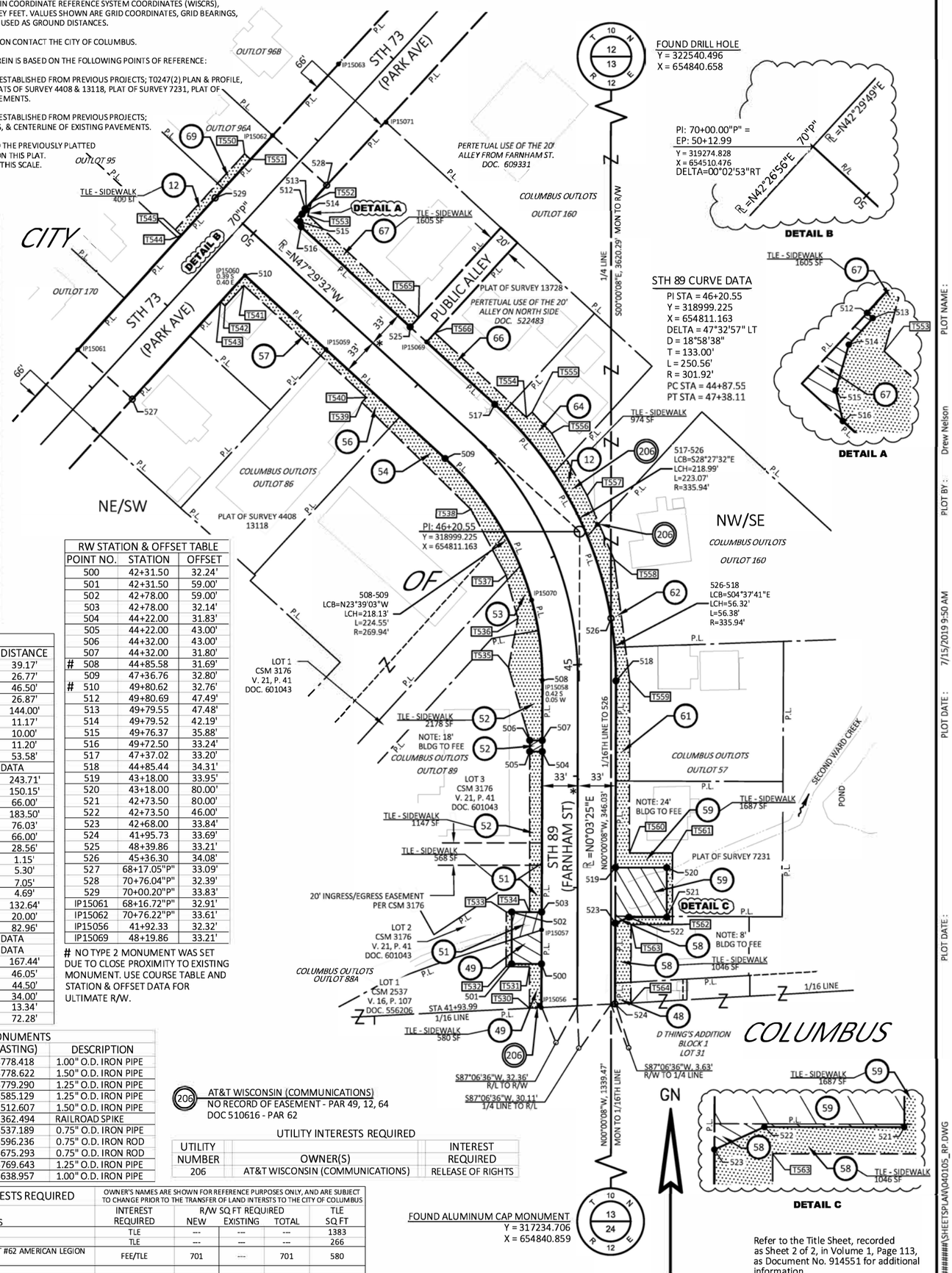
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF COLUMBUS.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 89 ESTABLISHED FROM PREVIOUS PROJECTS; T0247(2) PLAN & PROFILE, COLUMBUS OUTLOTS, CSM 3176, CSM 2537, PLATS OF SURVEY 4408 & 13118, PLAT OF SURVEY 7231, PLAT OF SURVEY 13728, & CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 73 ESTABLISHED FROM PREVIOUS PROJECTS; T0247(2) PLAN & PROFILE, COLUMBUS OUTLOTS, & CENTERLINE OF EXISTING PAVEMENTS.

* RW WIDTH AS SHOWN IN THIS LOCATION IS TO THE PREVIOUSLY PLATTED R/L AND NOT THE DESIGN R/L THAT IS SHOWN ON THIS PLAT. DIFFERENCE IS MINOR AND HARD TO DEPICT AT THIS SCALE.



TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
T530	41+91.78	43.00'
T531	42+29.00	43.00'
T532	42+29.00	64.00'
T533	42+78.00	64.00'
T534	42+78.00	43.00'
T535	45+00.00	62.00'
T536	45+52.00	48.00'
T537	46+00.00	47.00'
T538	46+80.00	46.00'
T539	48+26.00	45.97'
T540	48+26.00	40.00'
T541	49+75.00	40.00'
T542	49+75.00	65.00'
T543	49+80.42	65.00'
T544	69+55.00"P"	33.60'
T545	69+55.00"P"	41.00'
T550	70+47.00"P"	41.00'
T551	70+47.00"P"	33.69'
T552	49+80.67	56.00'
T553	49+75.00	45.00'
T554	47+12.00	45.00'
T555	47+12.00	52.00'
T556	46+90.00	53.00'
T557	46+35.00	49.00'
T558	45+81.00	49.00'
T559	44+86.00	46.50'
T560	43+31.00	46.50'
T561	43+31.00	85.00'
T562	42+67.00	85.00'
T563	42+67.00	48.00'
T564	41+96.51	48.00'
T565	48+39.86	44.43'
T566	48+19.86	44.25'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
500	42+31.50	32.24'
501	42+31.50	59.00'
502	42+78.00	59.00'
503	42+78.00	32.14'
504	44+22.00	31.83'
505	44+22.00	43.00'
506	44+32.00	43.00'
507	44+32.00	31.80'
# 508	44+85.58	31.69'
509	47+36.76	32.80'
# 510	49+80.62	32.76'
512	49+80.69	47.49'
513	49+79.55	47.48'
514	49+79.52	42.19'
515	49+76.37	35.88'
516	49+72.50	33.24'
517	47+37.02	33.20'
518	44+85.44	34.31'
519	43+18.00	33.95'
520	43+18.00	80.00'
521	42+73.50	80.00'
522	42+73.50	46.00'
523	42+68.00	33.84'
524	41+95.73	33.69'
525	48+39.86	33.21'
526	45+36.30	34.08'
527	68+17.05"P"	33.09'
528	70+76.04"P"	32.39'
529	70+00.20"P"	33.83'
IP15061	68+16.72"P"	32.91'
IP15062	70+76.22"P"	33.61'
IP15056	41+92.33	32.32'
IP15069	48+19.86	33.21'

NO TYPE 2 MONUMENT WAS SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE AND STATION & OFFSET DATA FOR ULTIMATE R/W.

RW COURSE TABLE		
COURSE	BEARING	DISTANCE
IP15056-500	N00° 10' 48"E	39.17'
500-501	N89° 56' 35"W	26.77'
501-502	N00° 03' 25"E	46.50'
502-503	S89° 56' 35"E	26.87'
503-504	N00° 10' 48"E	144.00'
504-505	N89° 56' 35"W	11.17'
505-506	N00° 03' 25"E	10.00'
506-507	S89° 56' 35"E	11.20'
507-508	N00° 10' 48"E	53.58'
508-509	SEE CURVE DATA	
509-510	N47° 28' 54"W	243.71'
510-527	S42° 09' 46"W	150.15'
527-IP15061	N47° 50' 14"W	66.00'
IP15061-529	N42° 09' 46"E	183.50'
529-IP15062	N42° 39' 36"E	76.03'
IP15062-528	S47° 20' 24"E	66.00'
528-512	S42° 39' 36"W	28.56'
512-513	S47° 20' 24"E	1.15'
513-514	S42° 09' 55"W	5.30'
514-515	S16° 01' 35"W	7.05'
515-516	S13° 12' 02"E	4.69'
516-525	S47° 28' 54"E	132.64'
525-IP15069	S47° 28' 54"E	20.00'
IP15069-517	S47° 28' 54"E	82.96'
517-526	SEE CURVE DATA	
526-518	SEE CURVE DATA	
518-519	S00° 10' 48"W	167.44'
519-520	S89° 56' 35"E	46.05'
520-521	S00° 03' 25"W	44.50'
521-522	N89° 56' 35"W	34.00'
522-523	S65° 42' 47"W	13.34'
523-524	S00° 10' 48"W	72.28'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP15056	318571.030	654778.418	1.00" O.D. IRON PIPE
IP15057	318640.710	654778.622	1.50" O.D. IRON PIPE
IP15058	318864.705	654779.290	1.25" O.D. IRON PIPE
IP15059	319161.984	654585.129	1.25" O.D. IRON PIPE
IP15060	319228.416	654512.607	1.50" O.D. IRON PIPE
IP15061	319161.803	654362.494	RAILROAD SPIKE
IP15062	319353.734	654537.189	0.75" O.D. IRON PIPE
IP15063	319417.775	654596.236	0.75" O.D. IRON ROD
IP15069	319168.809	654675.293	0.75" O.D. IRON ROD
IP15070	318936.510	654769.643	1.25" O.D. IRON PIPE
IP15071	319365.592	654638.957	1.00" O.D. IRON PIPE

208 AT&T WISCONSIN (COMMUNICATIONS)
NO RECORD OF EASEMENT - PAR 49, 12, 64
DOC 510616 - PAR 62

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
206	AT&T WISCONSIN (COMMUNICATIONS)	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE CITY OF COLUMBUS				
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
12	CITY OF COLUMBUS	TLE	---	---	---	1383
48	SHARON J. BREYER	TLE	---	---	---	266
49	LANGE - OSTRANDER - HURD POST #62 AMERICAN LEGION COLUMBUS, WISCONSIN	FEE/TLE	701	---	701	580
51	J.R.KURTH RENTAL PROPERTIES, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	FEE/TLE	546	---	546	568
52	THOMAS E. ROZINSKI	FEE/TLE	112	---	112	3325
53	JOHN ALEKSANDER KURTH PROPERTIES, LLC	TLE	---	---	---	918
54	COLUMBUS TRANSPORT CO.,INC.	TLE	---	---	---	2705
56	RECYCLING REALITIES, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	TLE	---	---	---	867
57	JOHN F. KURTH, VENDOR AND COLUMBUS TRANSPORT CO, INC., PURCHASER UNDER LAND CONTRACT	TLE	---	---	---	852
58	BETH NELSON	FEE/TLE	68	---	68	1046
59	JOSEPH SIEGEL AND FLORENCIA DJAJA	FEE/TLE	2017	---	2017	1687
61	LEWIS J LINZMEIER	TLE	---	---	---	1428
62	COLUMBUS PRE-SCHOOL, INCORPORATED	TLE	---	---	---	1280
64	PAUL N. MARTY AND MARY P. MARTY, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	1170
66	CLIFFORD H. LADWIG AND DENISE E. LADWIG, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	---	---	---	1014
67	SEM OF COLUMBUS LLC, A LIMITED LIABILITY COMPANY OF WISCONSIN	FEE/TLE	40	---	40	1605
69	MABEL J. HAYES,	TLE	---	---	---	259

ALL AREAS SHOWN IN SQ FT UNLESS OTHERWISE NOTED
*PURPOSE FOR TLE'S IS TO REMOVE & REPLACE SIDE WALK, UNLESS NOTED, BUILDINGS WILL NOT BE AFFECTED

Refer to the Title Sheet, recorded as Sheet 2 of 2, in Volume 1, Page 113, as Document No. 914551 for additional information

emcs.llc

I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF COLUMBUS, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C. BOYER S-2675 HEWITT WI LAND SURVEYOR

SIGNATURE: Kevin C. Boyer DATE: 07/01/2019
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF COLUMBUS

SIGNATURE: _____ DATE: _____
PRINT NAME: PAT GOEBEL

3670-01-21-4.05
PLOT NAME :
PLOT BY : Drew Nelson
PLOT DATE : 7/15/2019 9:50 AM
PLOT DATE :
PLOT DATE :
FILE NAME : P:\49XX\4930 STH 89 - COLUMBIA CO\CADDS\#####\SHEETSPLAN\040105_RP.DWG
APPRAISAL PLAT DATE : 07/01/2019

DATE:	REVISION DATE

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), COLUMBIA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

TRANSPORTATION PROJECT PLAT NO: 3670-01-21- 4.06

RELOCATION ORDER STH 89 CITY OF COLUMBUS, FARNHAM STREET (0.32MI S O AVALON RD TO PARK AVENUE)

3670-01-21-4.06

R/W MONUMENT POINT NUMBER AND COORDINATE TABLE

RW MONUMENT POINT NUMBER AND COORDINATE TABLE		
POINT NO.	Y	X
100	314709.766	654325.830
101	314835.485	654370.048
103	314907.522	654377.371
104	315902.552	654736.983
105	315911.073	654739.539
106	314954.479	654481.882
107	314687.867	654388.091
IP15006	314982.397	654403.717
IP15007	314877.922	654454.938
IP15012	315915.599	654829.985
T150	314710.846	654322.788
T151	314800.853	654354.747
T152	314807.621	654334.867
T153	314844.056	654347.272
T154	314962.860	654396.843
T155	314965.794	654388.724
T156	315329.755	654520.258
T157	315329.076	654522.139
T158	315524.693	654592.834
T159	315525.713	654590.012
T160	315875.830	654716.490
T161	315874.189	654721.213
T162	315910.725	654732.583
T163	315919.045	654891.731
T164	315915.782	654891.730
T165	315913.278	654838.820
T166	315816.526	654800.377
T167	315811.768	654813.544
T168	315747.816	654790.432
T169	315753.934	654773.504
T170	315681.518	654747.333
T171	315679.819	654752.035
T172	315613.986	654728.244
T173	315615.623	654723.712
T174	314876.857	654457.759
T175	314872.975	654468.036
T176	314812.592	654447.478
T177	314814.849	654440.852
T178	314732.491	654412.812
T179	314735.235	654404.752
200	315911.073	654739.539
201	315992.102	654763.841
202	316603.659	654760.825
203	316603.743	654777.825
204	317231.757	654774.727
205	317234.698	654840.713
206	317063.383	654841.558
207	317063.531	654871.558
208	316648.536	654873.605
209	316090.379	654885.887
210	316055.272	654887.064
211	316054.885	654871.823
212	315975.371	654840.315
213	315916.115	654840.289
214	317233.260	654840.721
IP15012	315915.599	654829.985
IP15016	316648.388	654843.605
IP15072	316293.691	654845.355
T220	315910.725	654732.583
T221	315915.615	654734.105
T222	315987.768	654749.719
T223	316079.684	654756.786
T224	316600.432	654755.589
T225	316600.337	654734.589
T226	316643.337	654734.394
T227	316643.500	654770.394
T228	317134.495	654768.167
T229	317134.445	654757.167
T230	317152.445	654757.085
T231	317152.508	654771.085
T232	317231.533	654769.696
T233	317235.469	654853.916
T234	317063.447	654854.495
T235	316648.446	654855.372
T236	316426.888	654856.377
T237	316426.910	654861.377
T238	316293.764	654861.981
T239	316105.289	654891.795
T240	315919.045	654891.731
300	317231.757	654774.727
301	317985.954	654776.981
302	317995.867	654761.578
303	318064.934	654843.187
304	317998.805	654843.019
306	318082.254	655407.389
307	317234.700	654840.725
IP15039	318059.407	654777.175
T320	317231.533	654769.696
T321	317328.792	654767.987
T322	317328.803	654763.987
T323	317390.803	654764.168
T324	317390.797	654766.168
T325	317691.796	654767.047
T326	317691.808	654763.047
T327	317816.810	654762.412
T328	317816.795	654767.412
T329	317982.795	654767.897
T330	317993.311	654751.928
T331	317995.553	654751.934
T332	317999.551	654855.446
T333	317939.539	654855.271
T334	317939.522	654861.271
T335	317797.522	654860.856
T336	317797.552	654850.856
T337	317655.552	654850.442
T338	317655.525	654859.942
T339	317442.525	654859.320
T340	317442.552	654850.320
T341	317400.552	654850.197
T342	317400.537	654855.197
T343	317378.537	654855.133

RW MONUMENT POINT NUMBER AND COORDINATE TABLE		
POINT NO.	Y	X
T344	317378.558	654848.133
T345	317267.558	654847.809
T346	317267.541	654853.809
T347	317235.469	654853.916
402	318371.048	654777.831
403	318387.021	654754.387
404	318438.535	654778.002
406	318574.363	654844.429
407	318448.518	654844.033
408	318444.816	654846.783
409	318443.063	654851.048
410	318383.187	654854.919
411	318379.053	654847.625
412	318372.264	654843.834
413	318068.738	654843.195
414	318065.703	654855.999
415	318064.934	654843.187
IP15039	318059.407	654777.175
IP15056	318571.030	654778.418
T420	318059.111	654768.079
T421	318086.731	654768.118
T422	318086.744	654759.118
T423	318132.744	654759.183
T424	318132.728	654770.183
T425	318367.728	654770.516
T426	318386.609	654747.543
T427	318437.968	654768.605
T428	318520.713	654768.687
T429	318520.720	654761.687
T430	318543.720	654761.710
T431	318543.714	654767.633
T432	318570.491	654767.736
T433	318575.136	654858.741
T434	318443.498	654858.610
T435	318384.545	654878.540
T436	318371.599	654861.521
T437	318339.599	654861.476
T438	318339.611	654853.476
T439	318078.611	654853.106
T440	318065.948	654860.088
500	318610.203	654778.541
501	318610.230	654751.776
502	318656.730	654751.822
503	318656.703	654778.687
504	318800.703	654779.140
505	318800.714	654767.965
506	318810.714	654767.975
507	318810.703	654779.171
508	318864.287	654779.339
509	319064.098	654691.833
510	319228.802	654512.205
512	319288.009	654566.373
513	319287.232	654567.216
514	319283.307	654563.661
515	319276.532	654561.715
516	319271.970	654562.785
517	319112.744	654736.438
518	318864.080	654845.339
519	318696.638	654844.813
520	318696.592	654890.862
521	318652.092	654890.818
522	318652.126	654856.818
523	318646.638	654844.656
524	318574.363	654844.429
525	319182.326	654660.551
526	318920.212	654840.795
527	319117.502	654411.416
528	319309.009	654585.724
529	319297.824	654485.668
IP15056	318571.030	654778.418
IP15061	319161.803	654362.494
IP15062	319353.734	654537.189
IP15069	319168.809	654675.293
T530	318570.491	654767.736
T531	318607.714	654767.773
T532	318607.735	654746.773
T533	318656.735	654746.822
T534	318656.714	654767.822
T535	318876.174	654748.837
T536	318920.068	654757.321
T537	318959.051	654746.646
T538	319018.621	654714.929
T539	319114.594	654617.267
T540	319118.991	654621.297
T541	319219.669	654511.456
T542	319201.239	654494.564
T543	319204.905	654490.565
T544	319264.301	654455.312
T545	319269.295	654449.852
T550	319337.179	654511.997
T551	319332.243	654517.385
T552	319294.270	654572.143
T553	319282.330	654568.890
T554	319101.064	654764.735
T555	319105.796	654769.893
T556	319086.796	654787.405
T557	319030.862	654819.171
T558	318973.079	654843.462
T559	318864.625	654857.529
T560	318709.625	654857.375
T561	318709.587	654895.875
T562	318645.587	654895.811
T563	318645.624	654858.811
T564	318575.136	654858.741
T565	319190.532	654668.071
T566	319176.947	654682.749

PLOT NAME :

Drew Nelson

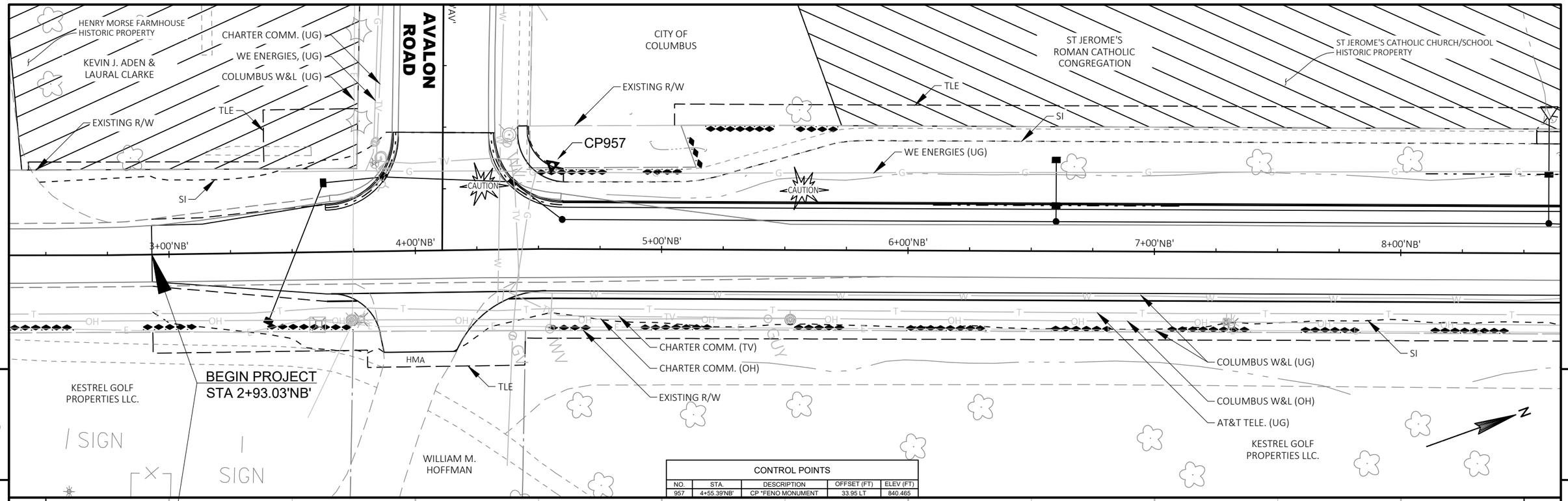
PLOT BY :

8/13/2019 2:38 PM

PLOT DATE :

PLOT DATE :

FILE NAME : P:\49XX\4930 STH 89 - COLUMBIA CO\CADDS\######\SHEETSPLAN\040106_RP_COORDINATES.DWG
APPRAISAL PLAT DATE : 12/07/2018



CONTROL POINTS

NO.	STA.	DESCRIPTION	OFFSET (FT)	ELEV (FT)
957	4+55.39'NB'	CP *FENO MONUMENT	33.95 LT	840.465

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 89 MAINLINE	SHEET 181	E

STA 8+87.00'NB' - STA 9+37.00'NB'
CPRC 12", 2 - 50 LF
IE IN: 836.250'
IE OUT: 836.000'

ST JEROME'S CATHOLIC CHURCH/SCHOOL
HISTORIC PROPERTY

ST JEROME'S
ROMAN CATHOLIC
CONGREGATION

HMA

TLE

EXISTING R/W

SI

WE ENERGIES (UG)

CAUTION

9+00'NB' | 10+00'NB' | 11+00'NB' | 12+00'NB' | 13+00'NB' | 14+00'NB'

STH 89

SI

CHARTER COMM. (OH)

COLUMBUS W&L (UG)

TLE

COLUMBUS WASTEWATER

EXISTING R/W

COLUMBUS W&L (OH)

AT&T TELE. (UG)

KESTREL GOLF
PROPERTIES LLC.

STA 13+87.88'NB' - STA 14+24.88'NB'
PACS 21"X15", 37 LF
IE IN: 832.975'
IE OUT: 832.790'

HMA

JOHNSON'S PROPERTY
IN COLUMBUS, LLC.

5

5

VCL = 100.00
K = 87.00

VPC STA 13+37.00
VPC EL 836.43

VPI STA 13+87.00
VPI EL 836.18

VPT STA 14+37.00
VPT EL 836.51

840

830

828

-0.50%

PROPOSED PROFILE

EXISTING PROFILE

PROPOSED LEFT DITCH

EXISTING NB PROFILE ELEVATION

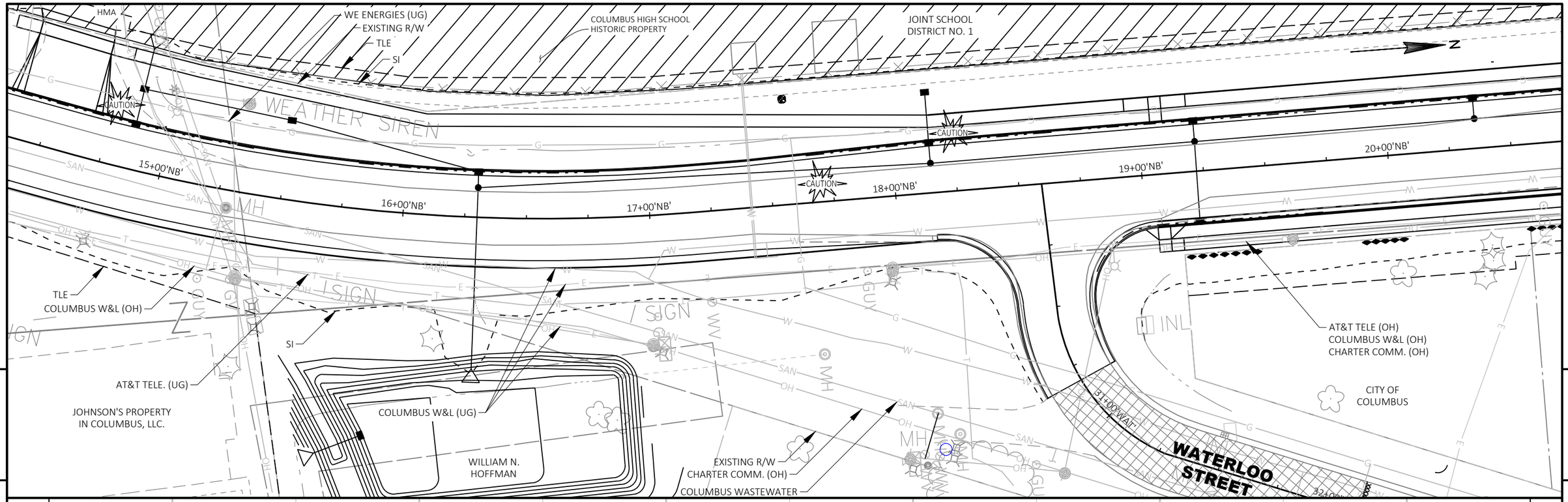
PROPOSED NB PROFILE ELEVATION

8	9	10	11	12	13	14	14
838.59	838.62	838.37	838.37	837.90	838.12	837.73	837.87	837.47	837.62	837.15	837.37	836.98	837.12	836.69	836.87	836.46	836.62	836.39	836.38	836.19	836.35

9+00 | 10+00 | 11+00 | 12+00 | 13+00 | 14+00

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 89 MAINLINE	SHEET 182 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\050101_PP.DWG
LAYOUT NAME - 050101_pp02
PLOT DATE : 5/14/2021 9:05 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 89 MAINLINE	SHEET 183	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\050101_PP.DWG
LAYOUT NAME - 050101_pp03

PLOT DATE : 5/14/2021 9:05 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

CONTROL POINTS				
NO.	STA.	DESCRIPTION	OFFSET (FT)	ELEV (FT)
956	22+02.70'NB'	CP *FENO MONUMENT	52.09 LT	847.291

TLE
956
HMA
COLUMBUS HIGH SCHOOL HISTORIC PROPERTY
JOINT SCHOOL DISTRICT NO. 1
EXISTING R/W
SI
WE ENERGIES (UG)
HMA
CAUTION
21+00'NB'
22+00'NB'
23+00'NB'
24+00'NB'
25+00'NB'
26+00'NB'
37+00'FR'
38+00'FR'
39+00'FR'
FRONTAGE ROAD
SI
EXISTING R/W
COLUMBUS W&L (UG)
AT&T TELE (OH)
COLUMBUS W&L (OH)
CHARTER COMM. (OH)
COLUMBUS W&L (UG)
CITY OF COLUMBUS
ZACHARY A. FRETER & TONYA M. LESTER
EUGENE G. & VIRGINIA H. RAKE
ANNE LEWELLIN
KRISTIE L. MERRIHEW
SHON M. & SARA L. SAMPLE
LEYROY H. & GEORGENA SYDOW
HAROLD L. SCHAEFER

5 5

VPC STA 23+40.28
VPC EL 847.66
VPI STA 24+65.26
VPI EL 850.70
VPT STA 25+90.28
VPT EL 851.59
VPT STA 21+70.25
VPT EL 843.51
VCL = 250.00
K = 139.69
VCL = 250.00
K = 144.65
PROPOSED PROFILE
EXISTING PROFILE
2.44%
PROPOSED RIGHT DITCH
EXISTING NB PROFILE ELEVATION
PROPOSED NB PROFILE ELEVATION

850
840
839

20	21	22	23	24	25	26
842.18	841.97	843.35	843.03	844.53	844.23	845.69	845.45	846.74	846.67	847.82	847.89	848.88	848.99	849.96	849.92	850.63	850.67	851.21	851.25	851.82	851.66
	21+00		22+00		23+00		24+00		25+00		26+00	

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 89 MAINLINE	SHEET 184 E

CONTROL POINTS				
NO.	STA.	DESCRIPTION	OFFSET (FT)	ELEV (FT)
1000	28+56.26'NB'	SECTION CORNER	33.20 RT	854.044

JOINT SCHOOL DISTRICT NO. 1
COLUMBUS HIGH SCHOOL HISTORIC PROPERTY
JOINT SCHOOL DISTRICT NO. 1
COLUMBUS SANITARY
JOINT SCHOOL DISTRICT NO. 1
JOINT SCHOOL DISTRICT NO. 1
JOINT SCHOOL DISTRICT NO. 1
COLUMBUS SCHOOL DISTRICT
TLE
HMA
UNITE PRIVATE NETWORKS (UG)
WE ENERGIES (UG)
HMA
EXISTING R/W
SI
CAUTION
CAUTION
27+00'NB'
28+00'NB'
29+00'NB'
30+00'NB'
31+00'NB'
32+00'NB'
PCC
1000
SECTION CORNER
GRAVEL
SI
TLE
EXISTING R/W
AT&T TELE (OH)
COLUMBUS W&L (OH)
CHARTER COMM. (OH)
PCC
HMA
HMA
HMA
HMA
ANDREA L. & ANTHONY A. LUEY
SHIRLEY M. HOFFMAN
HAROLD L. SCHAEFER
PAMELA B. SANDERSON
FREDRICK W. & PEGGY S. GOETSCH
FREDRICK W. & PEGGY S. GOETSCH
JASON R. WEISSMANN
JENNIFER R. BARNETT TRUST
MARYLS WEIHERT
COLUMBUS W&L (UG)

5 5

860
850
846

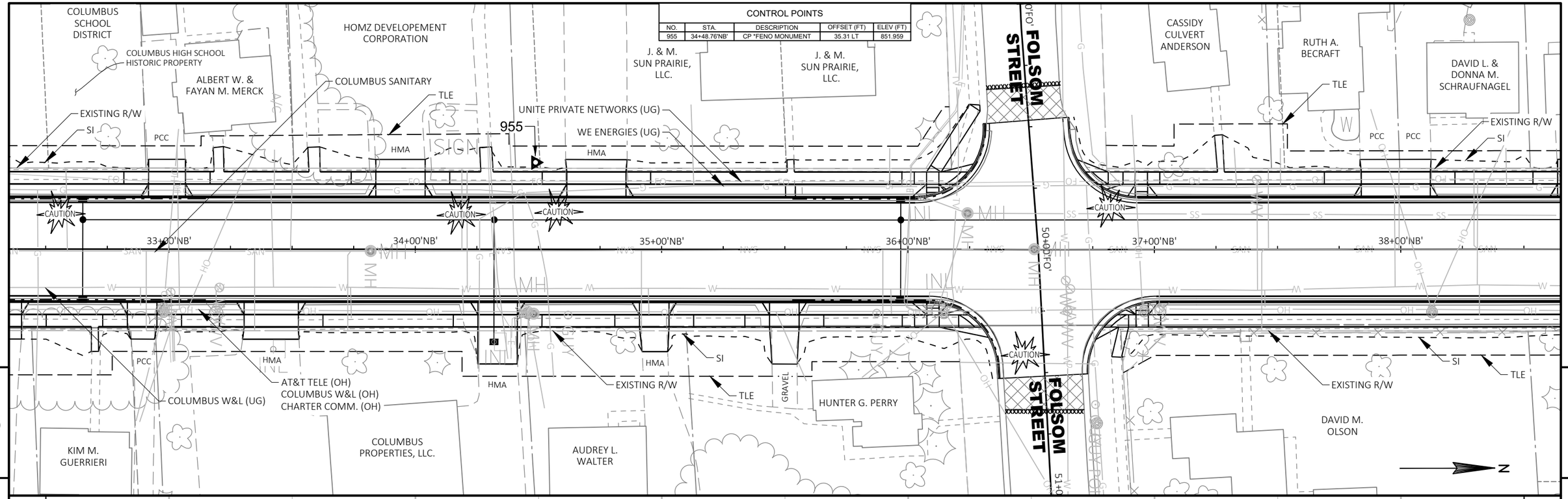
VPC STA 29+47.49
VPC EL 854.13
VPI STA 30+09.99
VPI EL 854.58
VPT STA 30+72.49
VPT EL 854.14
VCL = 200.00
K = 994.22
VPC STA 32+45.88
VPC EL 852.92

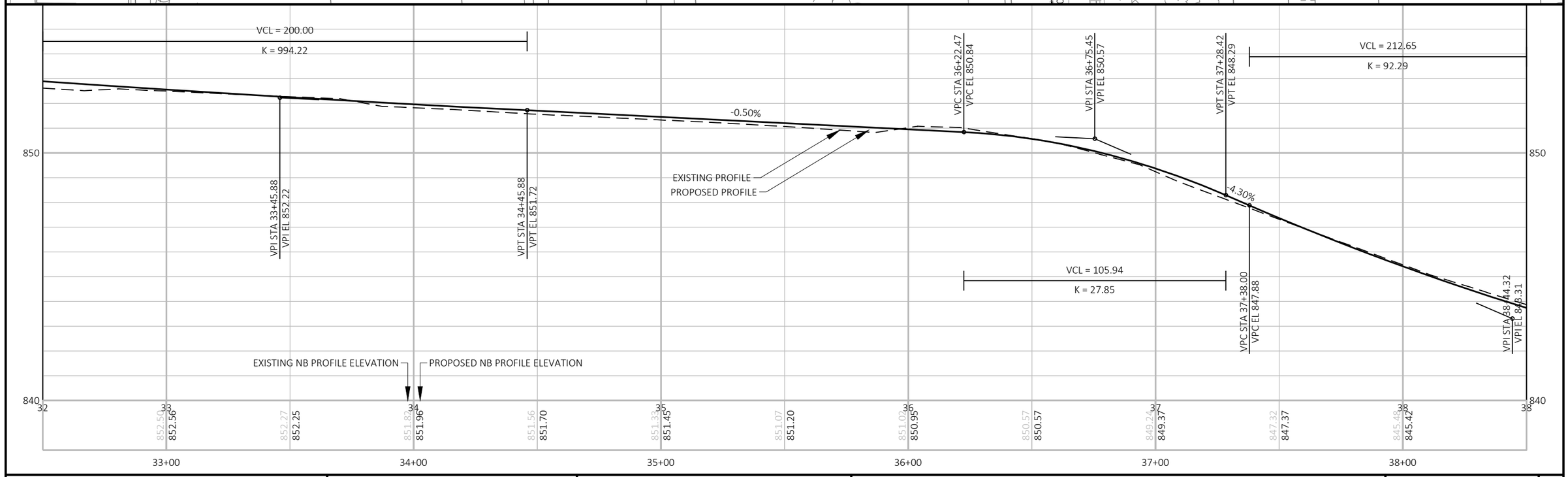
PROPOSED PROFILE
EXISTING PROFILE
0.71%
-0.70%
VCL = 125.00
K = 88.52
EXISTING NB PROFILE ELEVATION
PROPOSED NB PROFILE ELEVATION

26	27			28		29		30		31		32		32			
852.44	852.37	852.82	852.73	853.22	853.08	853.54	853.44	853.85	853.80	854.03	854.15	854.14	854.35	854.08	854.27	853.76	853.95	853.29	853.60	852.89	853.24		
27+00				28+00				29+00				30+00				31+00				32+00			

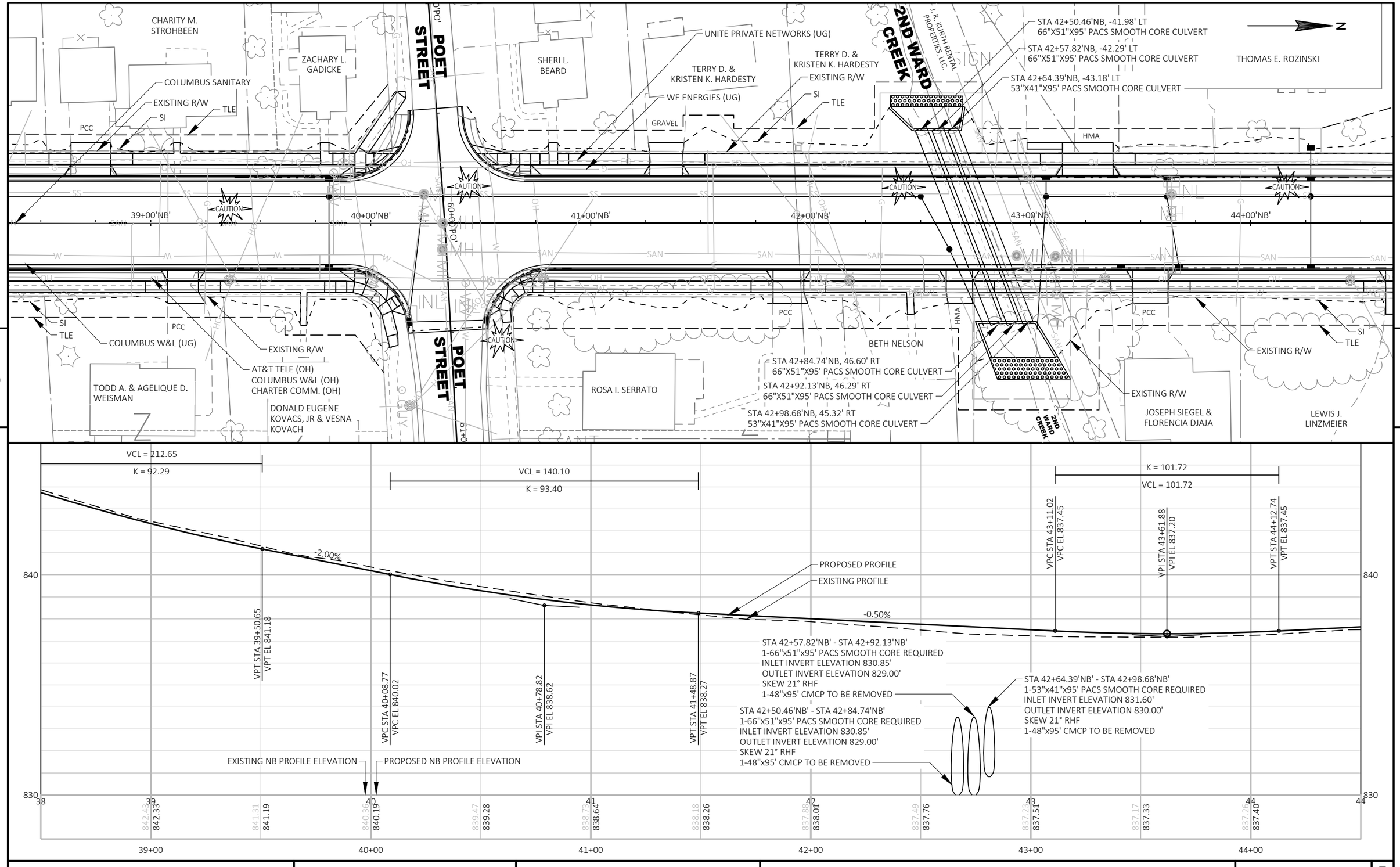
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 89 MAINLINE	SHEET 185	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\050101_PP.DWG
LAYOUT NAME - 050101_pp05
PLOT DATE : 5/14/2021 9:05 AM
PLOT BY : PORTER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

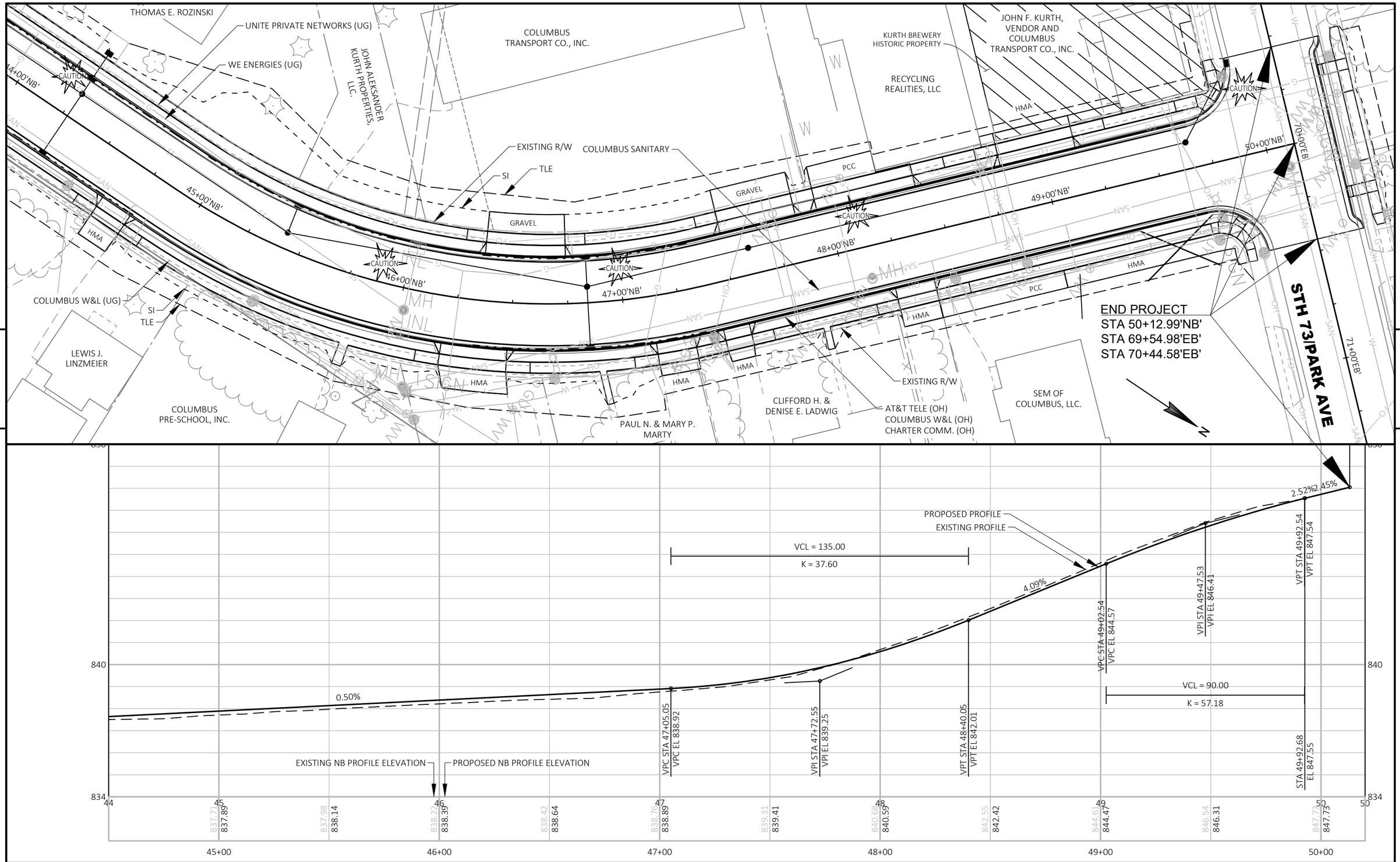




PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 89 MAINLINE	SHEET 186	E



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 89 MAINLINE	SHEET 187	E



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 89 MAINLINE	SHEET 188	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\050101_PP.DWG
LAYOUT NAME - 050101_pp08

PLOT DATE : 5/14/2021 9:06 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

CONTROL POINTS				
NO.	STA.	DESCRIPTION	OFFSET (FT)	ELEV (FT)
957	4+55.39'NB'	CP "FENO MONUMENT	33.95 LT	840.465

ST JEROME'S ROMAN CATHOLIC CONGREGATION

ST JEROME'S CATHOLIC CHURCH/SCHOOL HISTORIC PROPERTY

CITY OF COLUMBUS

KESTREL GOLF PROPERTIES LLC.

WILLIAM M. HOFFMAN

KEVIN J. ADEN & LAURAL CLARKE

HENRY MORSE FARMHOUSE HISTORIC PROPERTY

AVALON ROAD

7+00'AV' 8+00'AV' 9+00'AV'

STH 89

TLE

EXISTING R/W

957

R30'

SI

END CONSTRUCTION
STA 9+52.18'AV'
MATCH EXISTING
SAW CUT REQ'D

5+00

4+00

N

EXISTING PROFILE

PROPOSED PROFILE

STA 9+83.00
EL 840.48

STA 9+88.00
EL 840.58

STA 9+52.18
EL 840.68

STA 10+00.00
EL 840.82

-0.65%

2.00%

2.00%

850

840

6 7 8 9 10

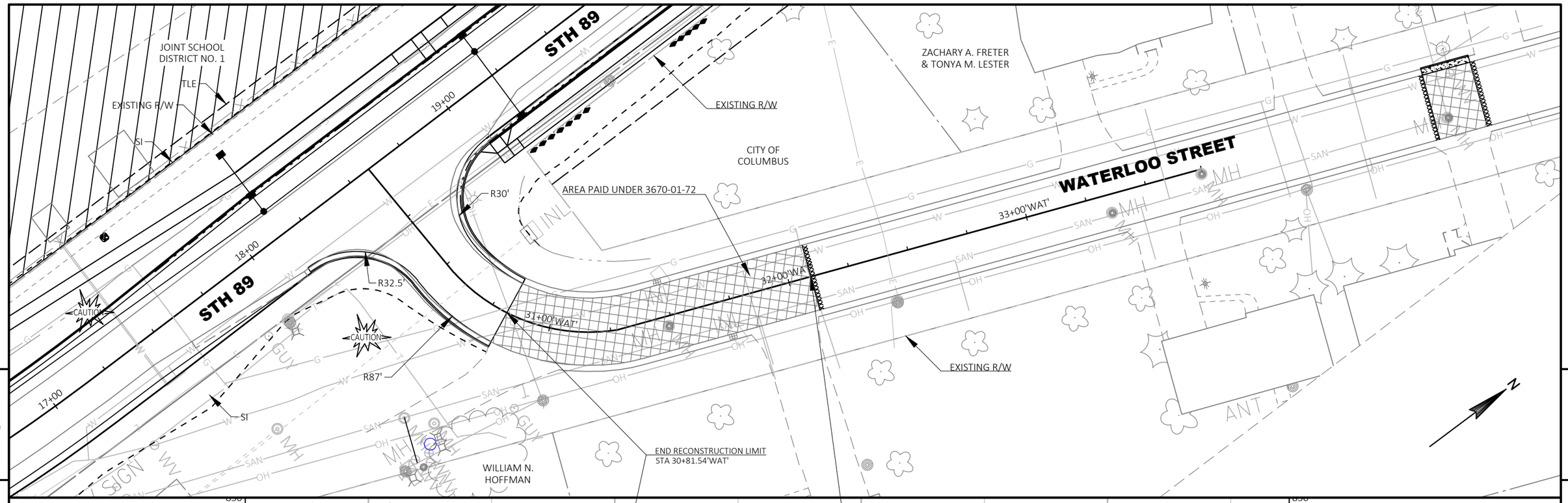
855.66 852.55 849.26 846.10 842.84 840.76 840.82

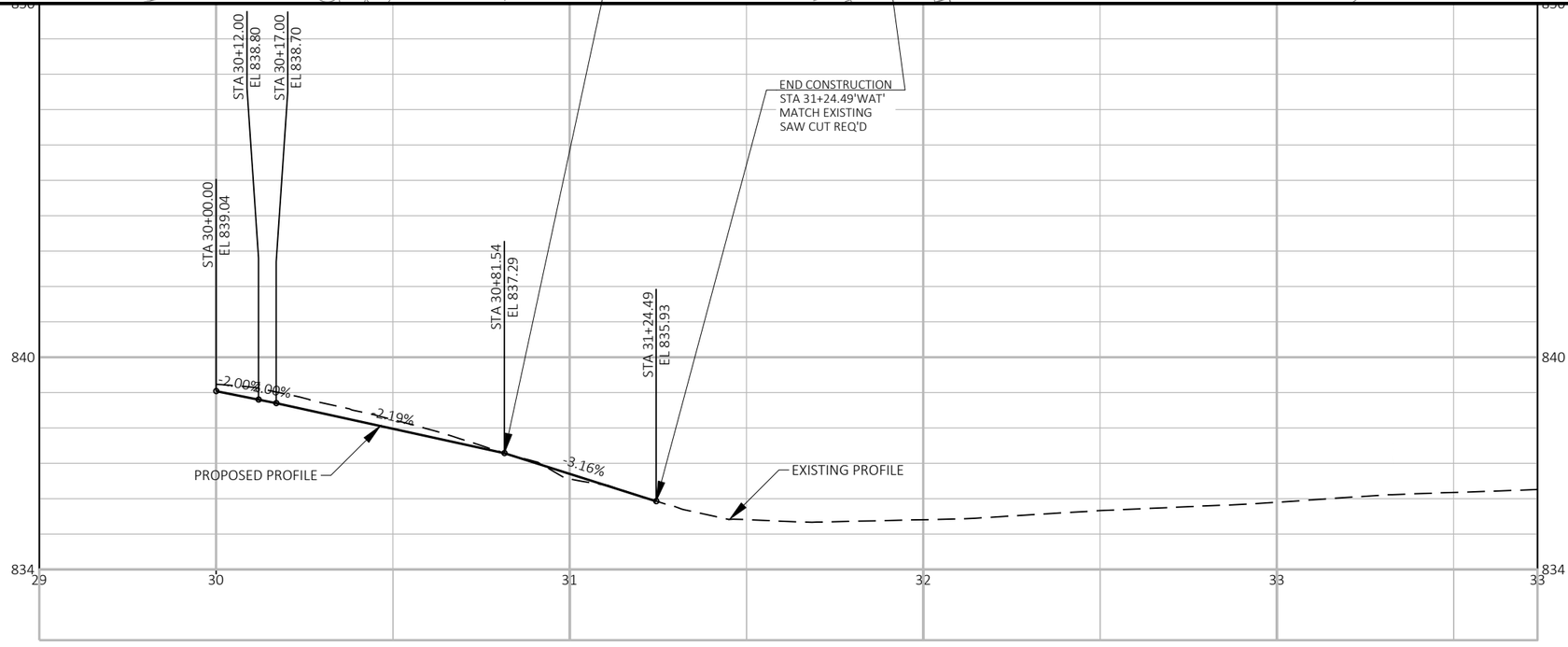
7+00 8+00 9+00 10+00

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: AVALON ROAD	SHEET 189 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\050102_PP.DWG
LAYOUT NAME - 050102_pp01

PLOT DATE : 6/24/2021 1:45 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

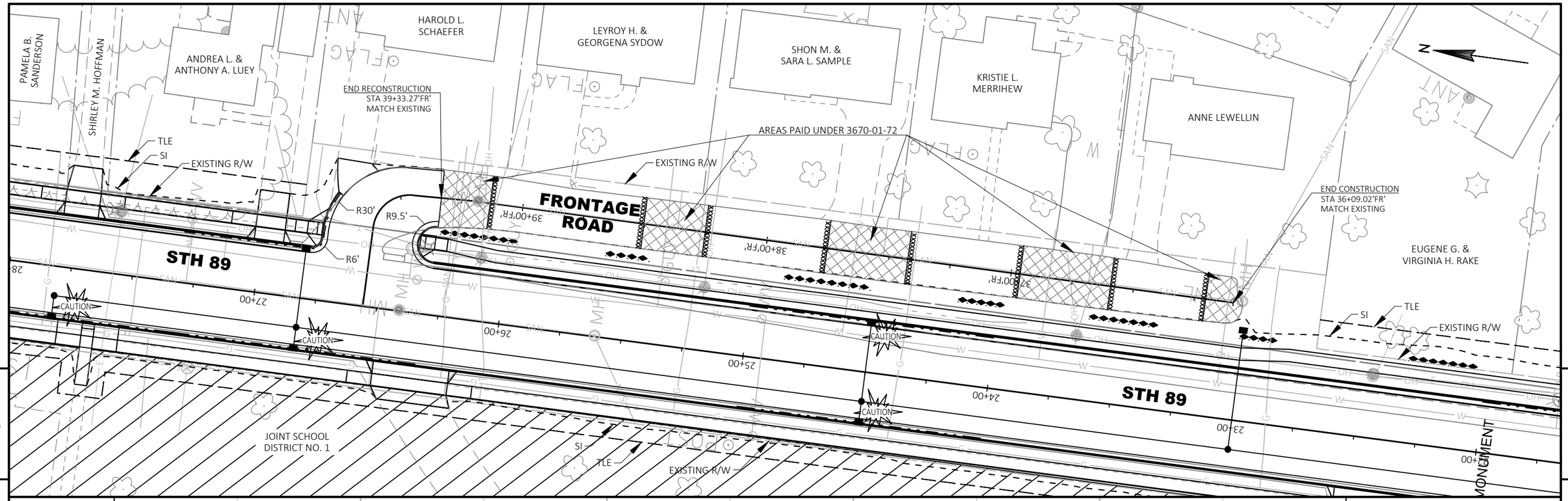


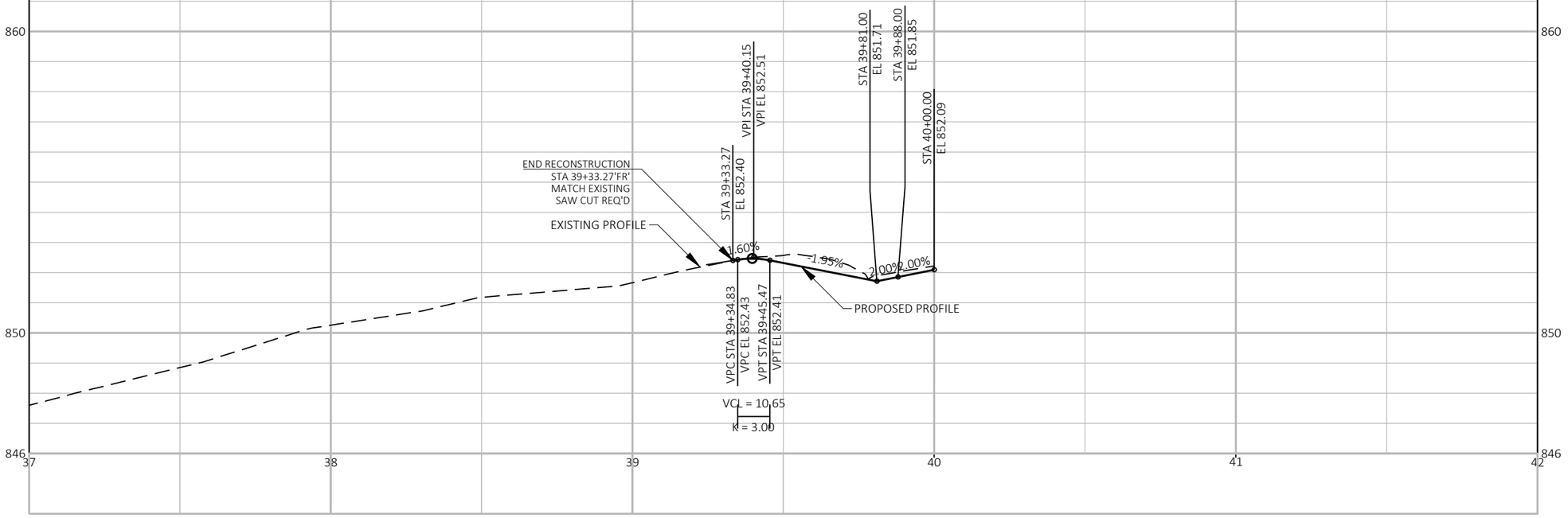


PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: WATERLOO STREET	SHEET 190	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\050102_PP.DWG
LAYOUT NAME - 050102_pp02

PLOT DATE : 6/24/2021 1:45 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT



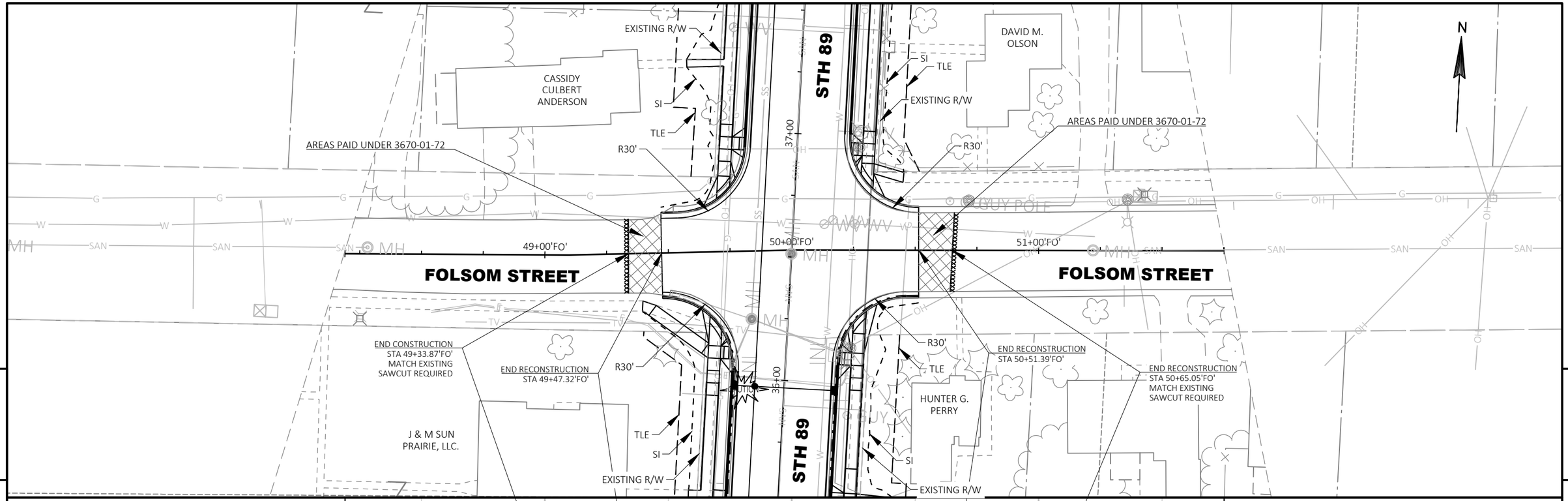


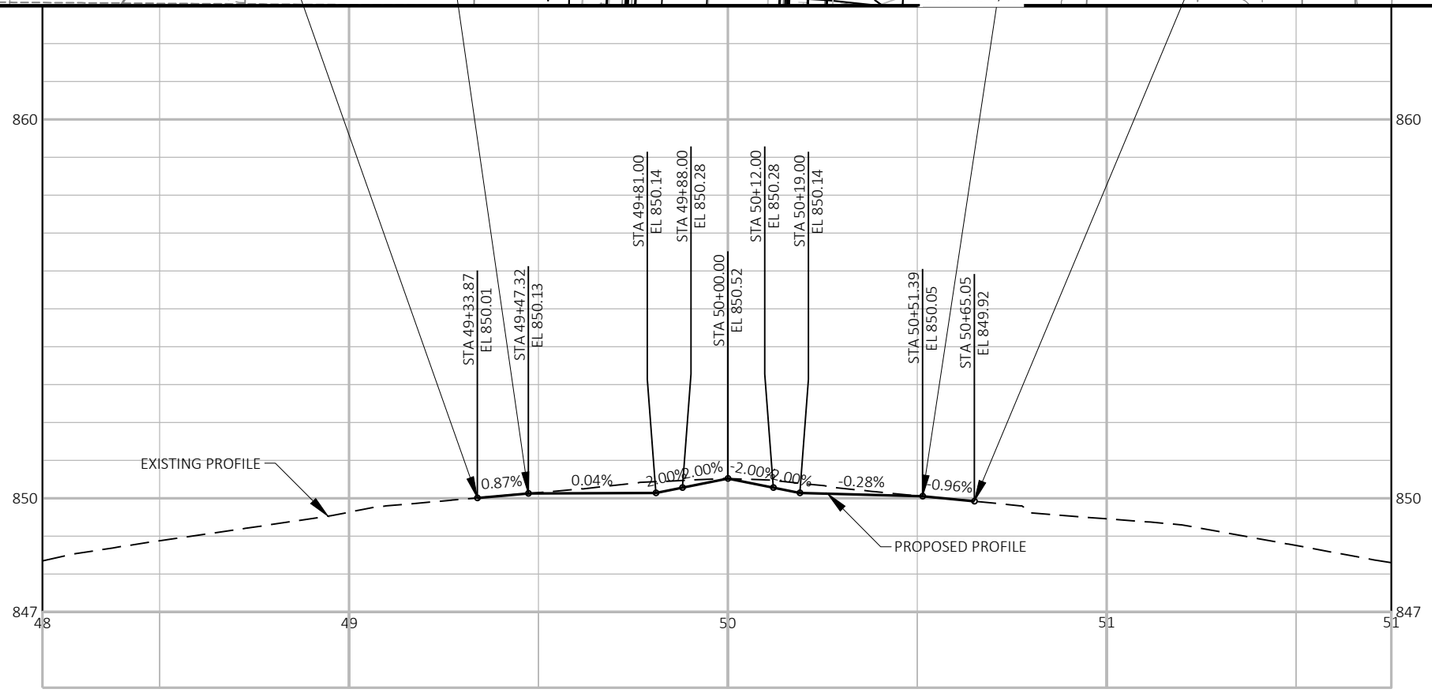
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: FRONTAGE ROAD	SHEET 191	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\050102_PP.DWG
LAYOUT NAME - 050102_pp03

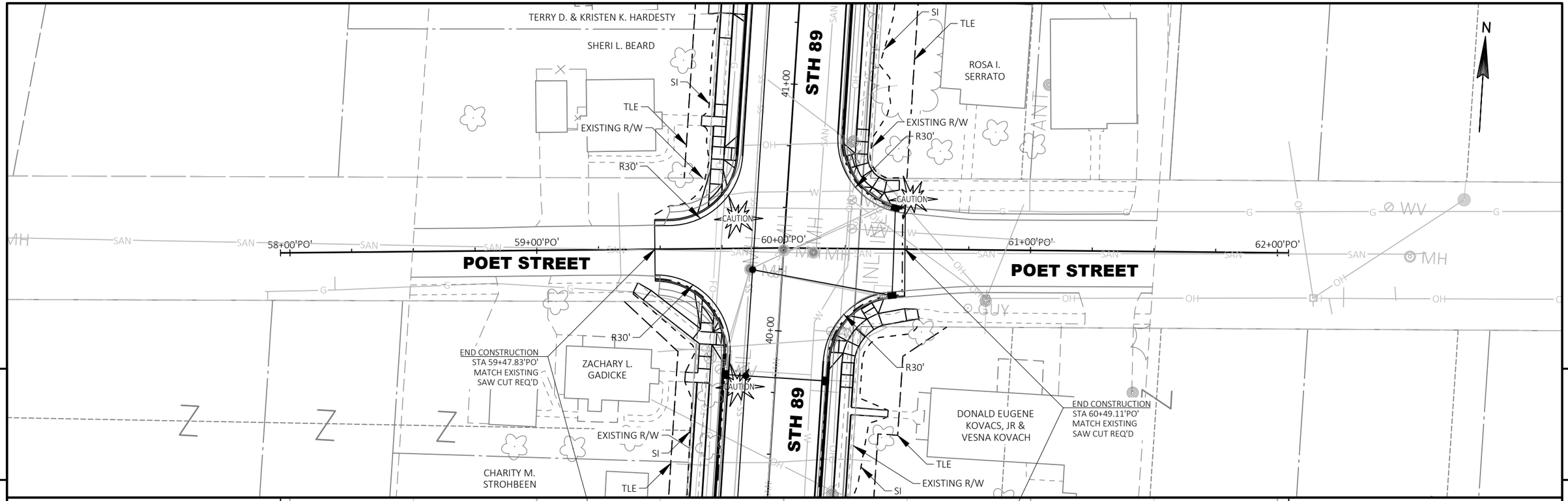
PLOT DATE : 6/24/2021 1:45 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

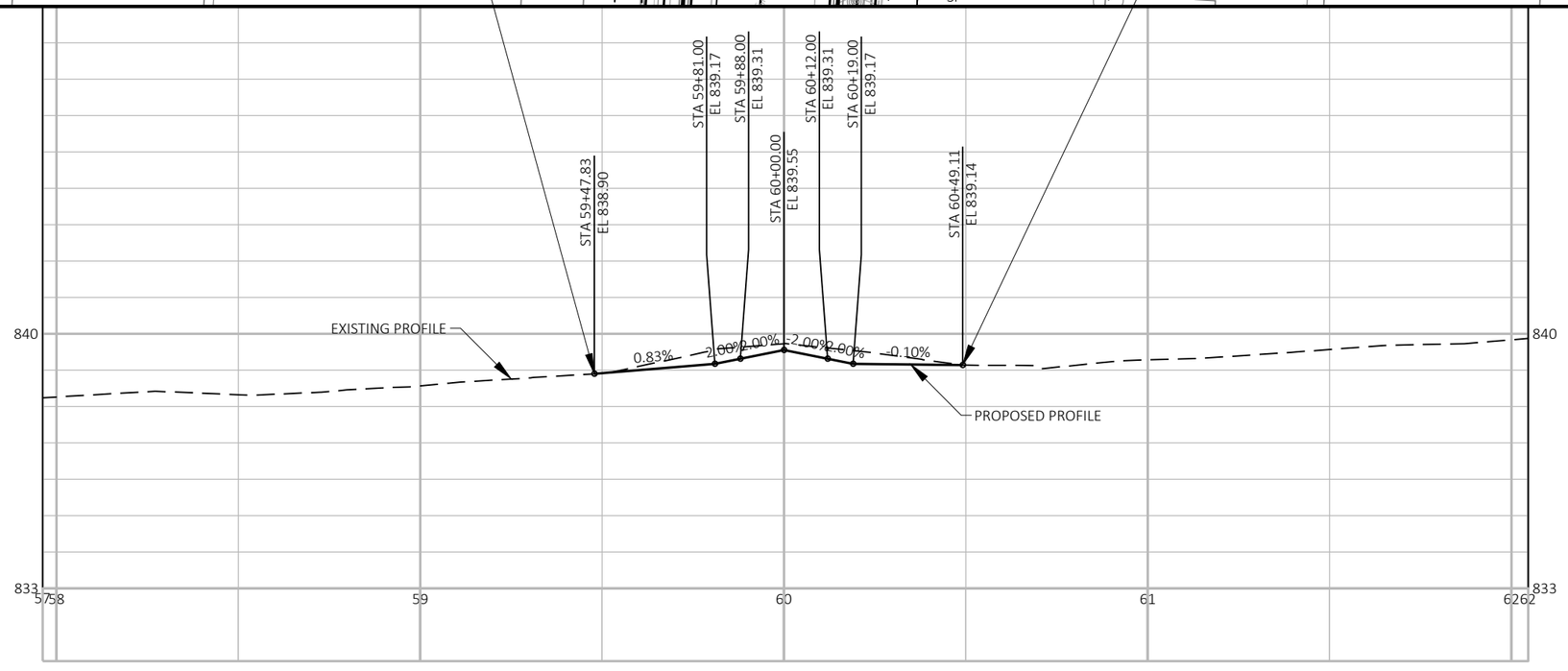
WISDOT/CADDS SHEET 44



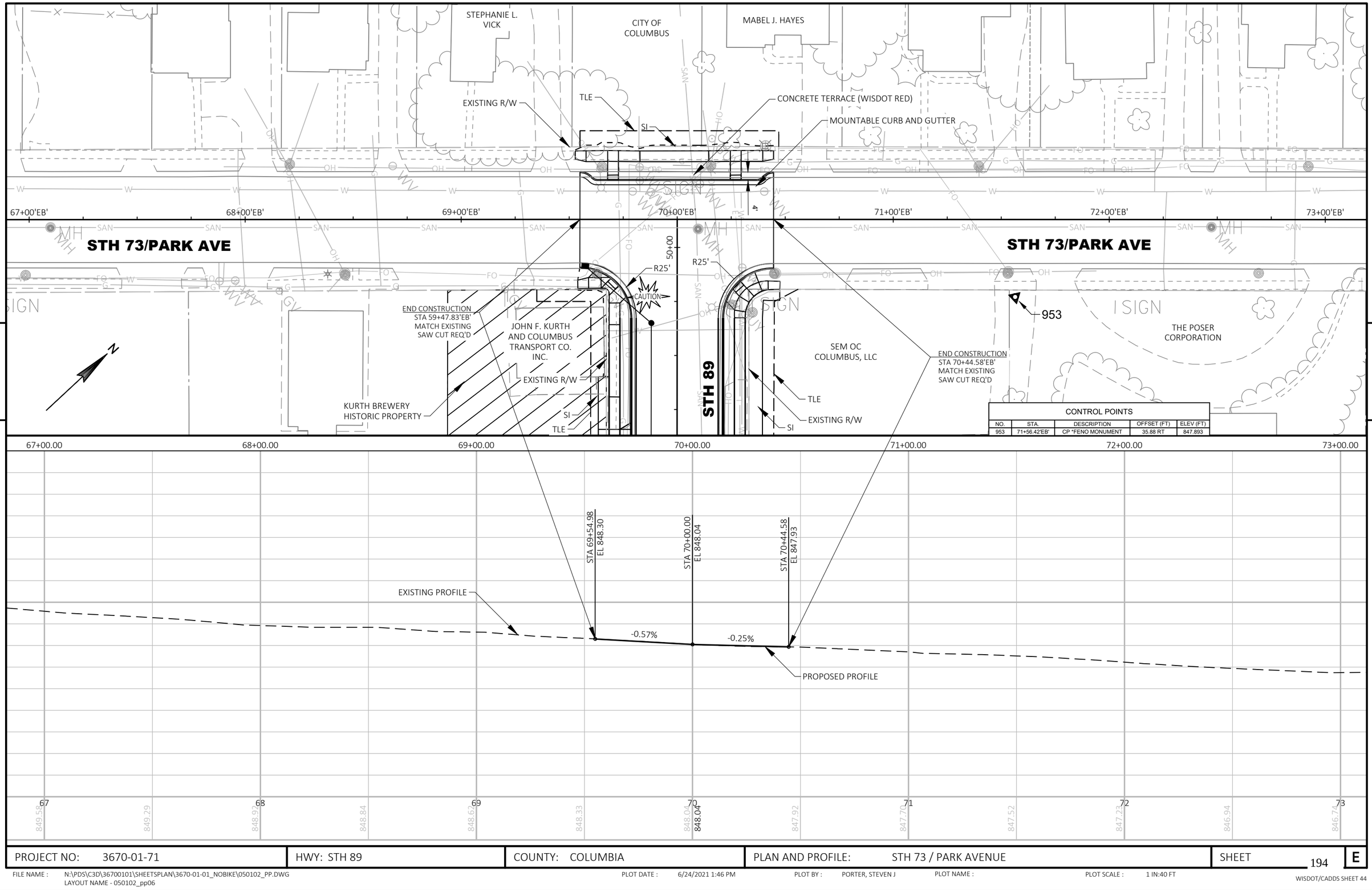


PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: FOLSOM STREET	SHEET 192	E





PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: POET STREET	SHEET 193	E



5

5

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 73 / PARK AVENUE	SHEET 194	E

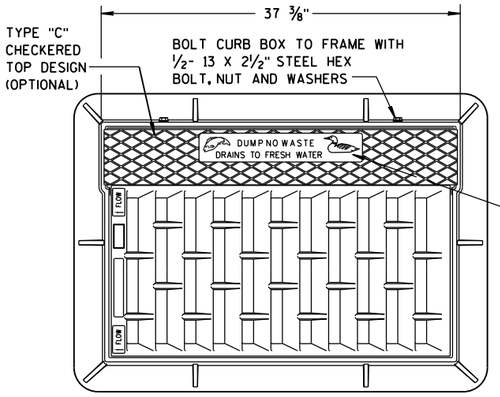
FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\050102_PP.DWG
LAYOUT NAME - 050102_pp06

PLOT DATE : 6/24/2021 1:46 PM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

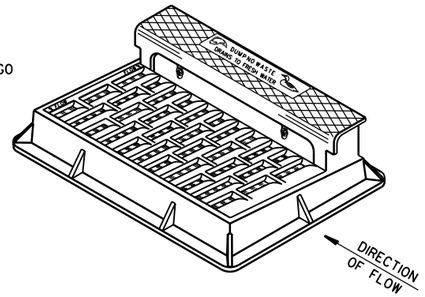
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D17-06	MANHOLES, MANHOLE & INLET COVERS
08D18-02	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-02	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
10A02-03	IDENTIFICATION PLAQUES LIGHT POLES
10A05-03	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
10A06-03	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES GROUNDED NEUTRAL SYSTEMS
10A07-03	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES PHASE-TO-PHASE SYSTEMS
10A18-05A	LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP
12A03-10	NAME PLATE (STRUCTURES)
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C19-03	HMA LONGITUDINAL JOINTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

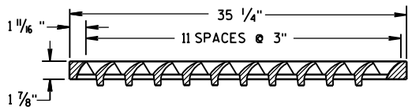
6

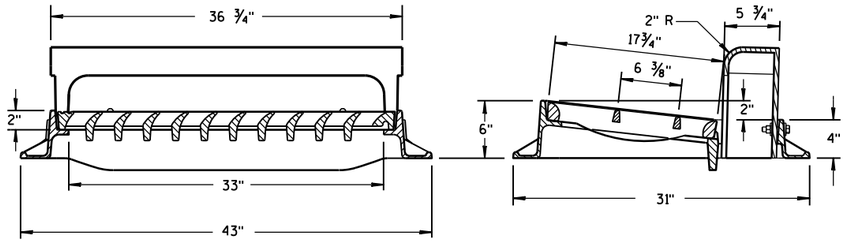


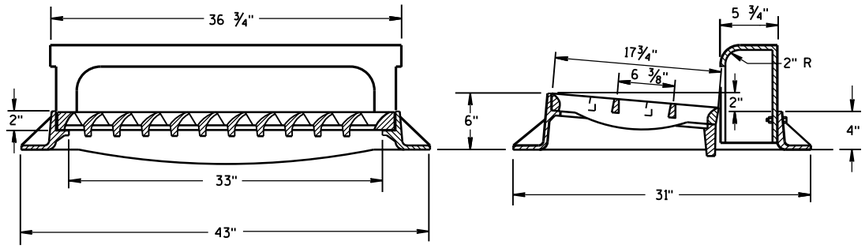
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

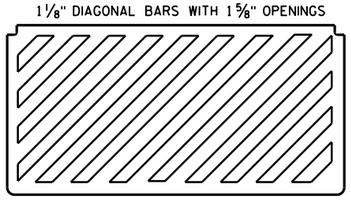






TYPE "H"

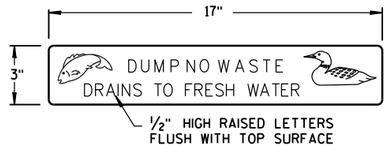
NOTE: EITHER CASTING IS ACCEPTABLE



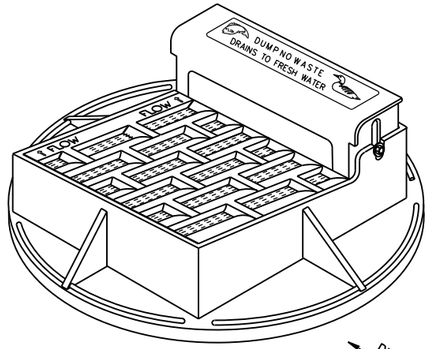
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

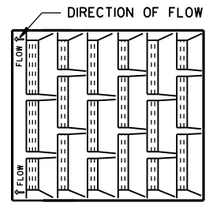
NOTE:
GRATE IS REVERSIBLE.

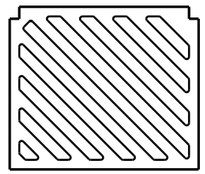
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

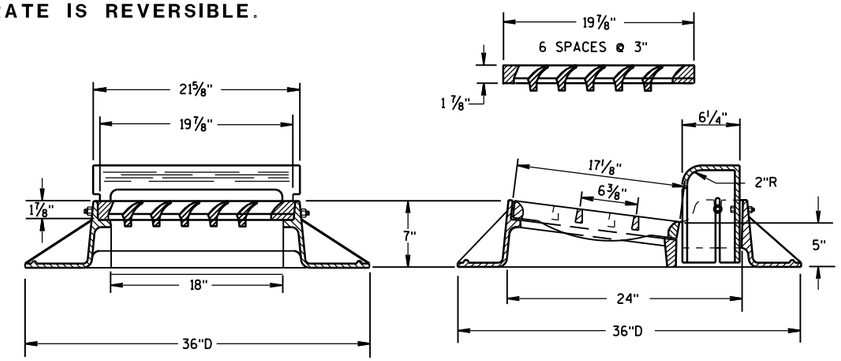




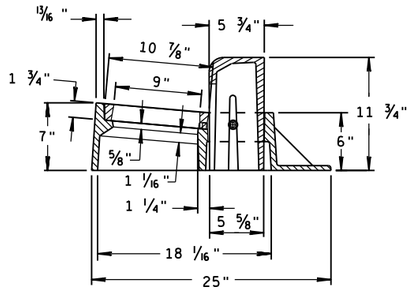
SPECIAL GRATE FOR TYPE "A" COVER

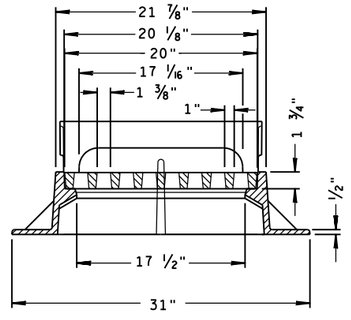
(MEASURES 19 3/4" X 17" X 1 7/8")

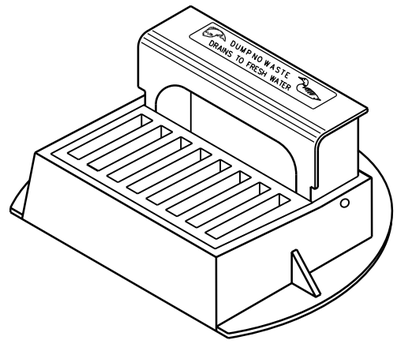
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

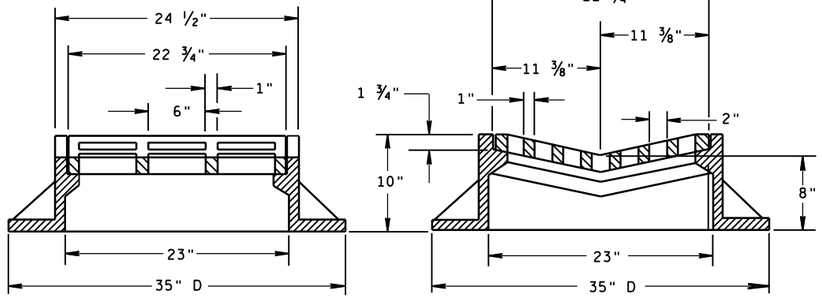
INLET COVERS
TYPE A, H, A-S, H-S & Z

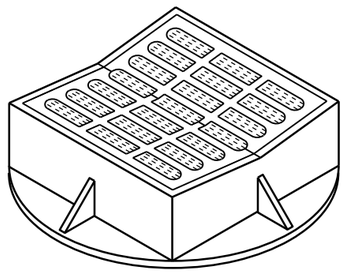
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

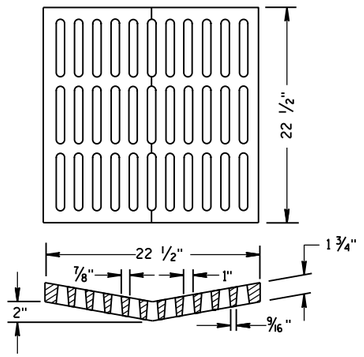
6

S.D.D. 8 A 5-19a



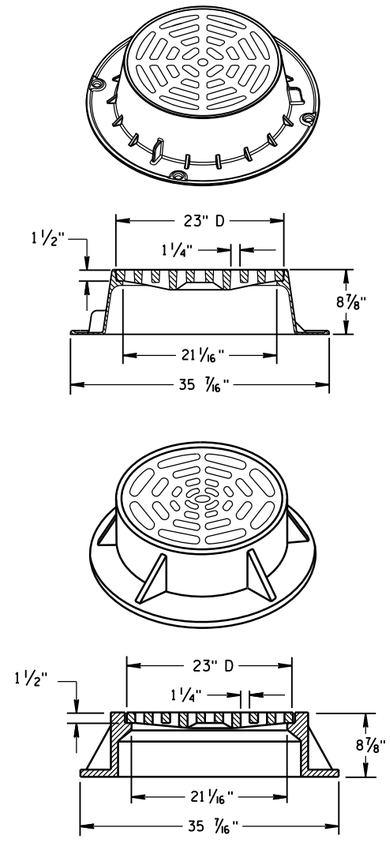


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

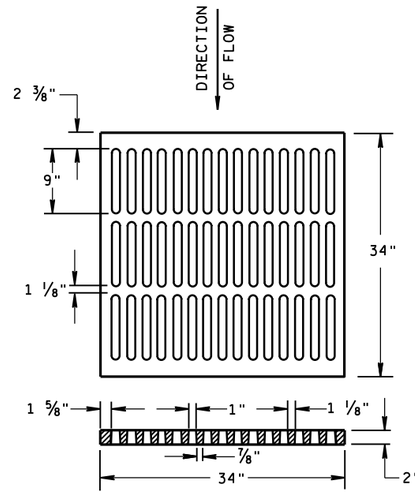
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

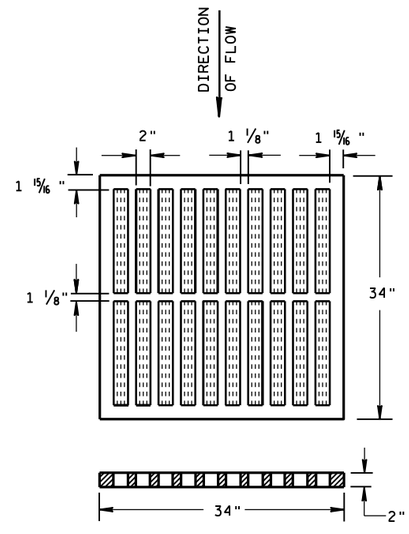
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



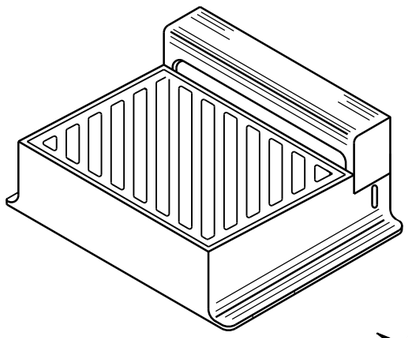
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

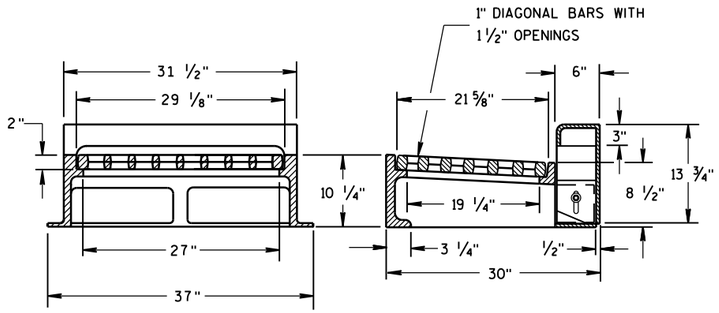


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

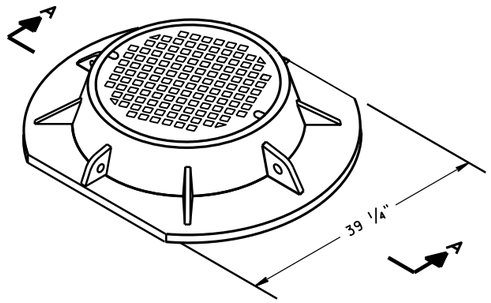
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

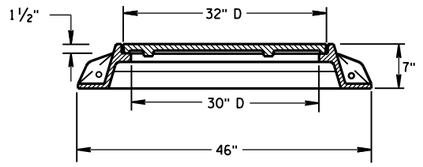
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

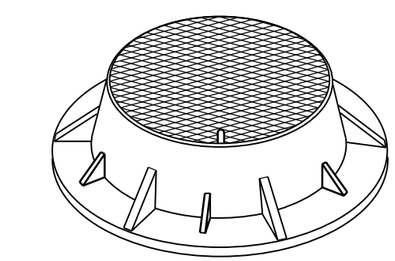
6

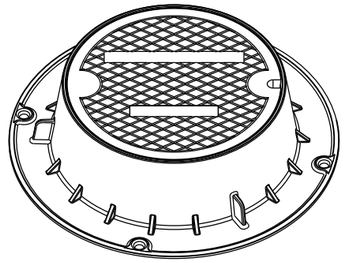
S.D.D. 8 A 5-19b

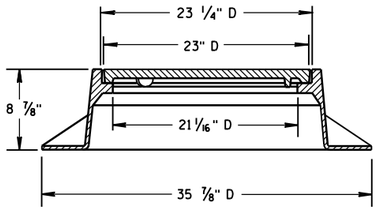


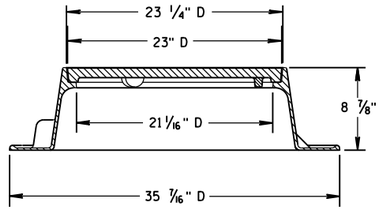


SECTION A-A
TYPE "K"









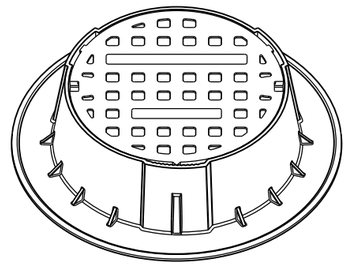
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

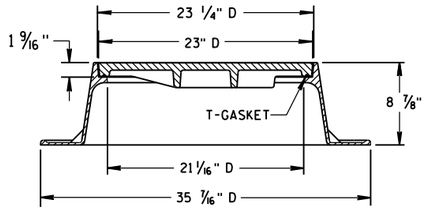
GENERAL NOTES

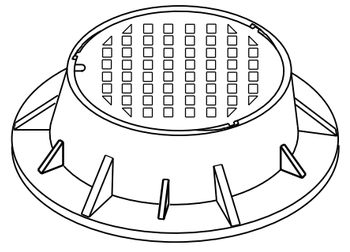
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

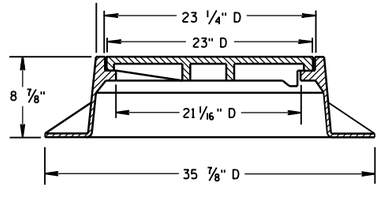
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

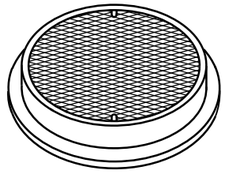


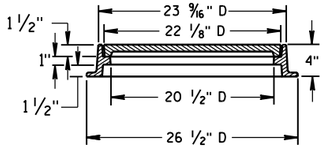




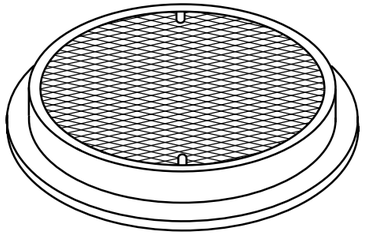


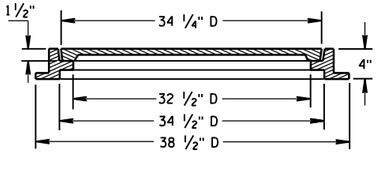
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



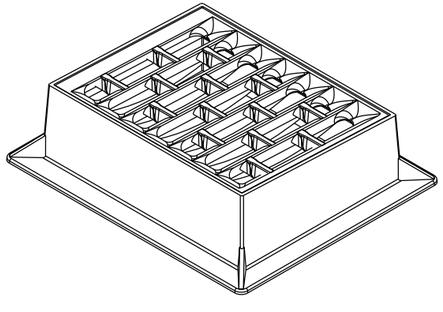


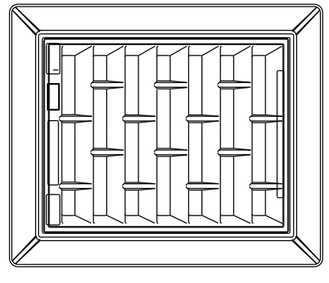
TYPE "L"

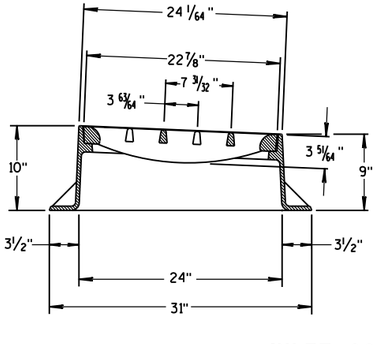


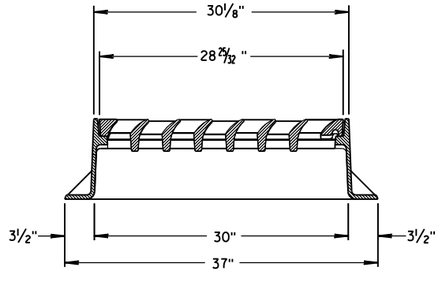


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

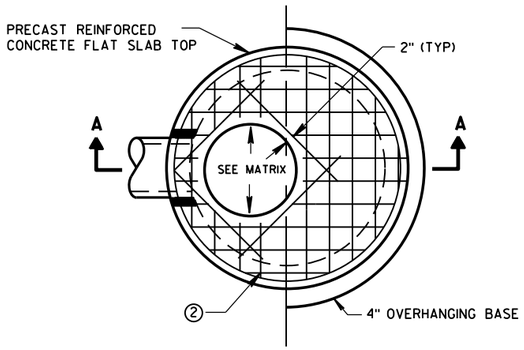
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

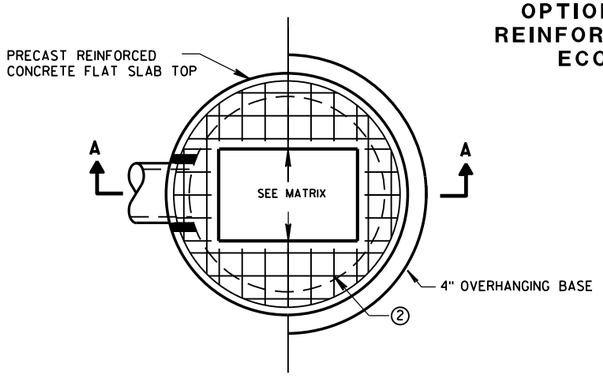
S.D.D. 8 A 5-19d

6

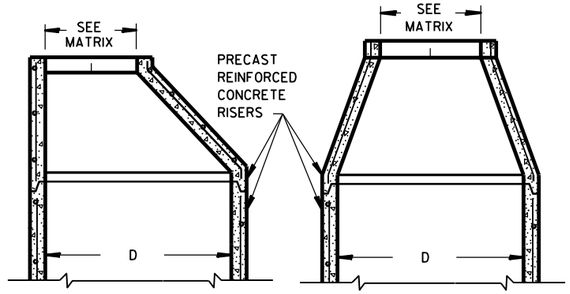
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

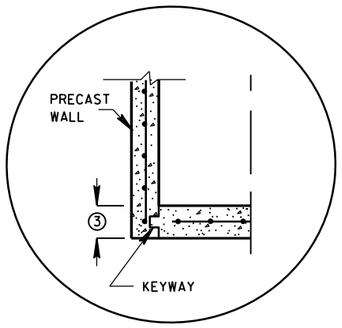


PLAN VIEW RECTANGULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

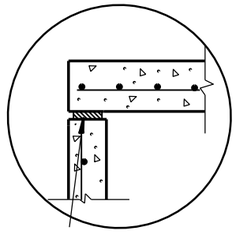
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

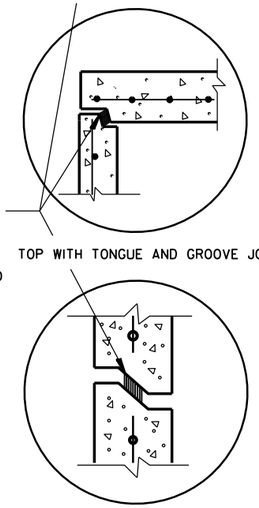
SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

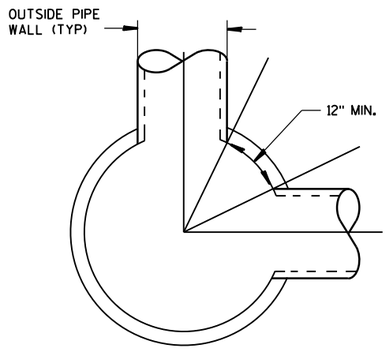
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



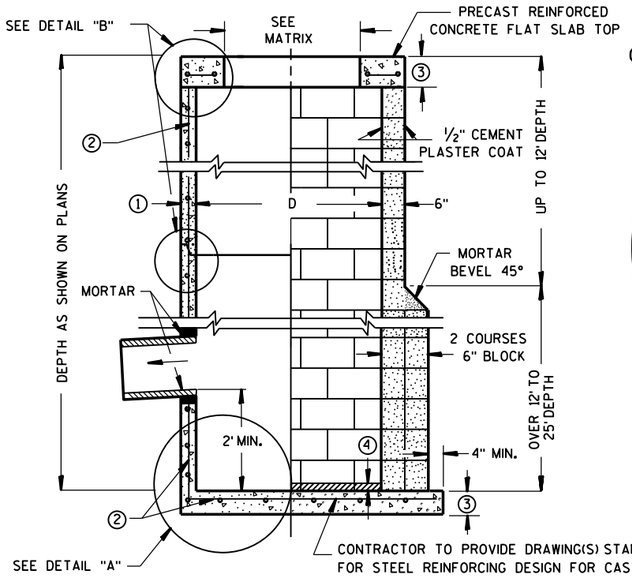
TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

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

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

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

CATCH BASIN COVER OPENING MATRIX

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

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

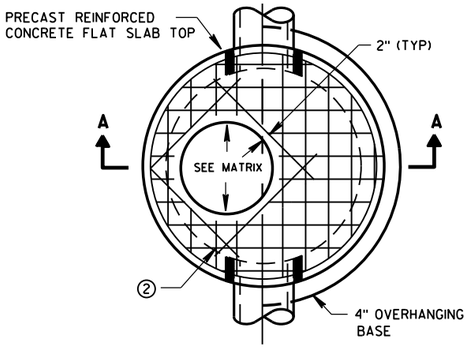
CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

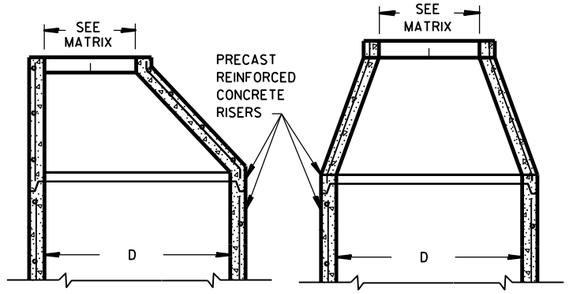
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

S.D.D. 8 A 8-2

S.D.D. 8 A 8-2

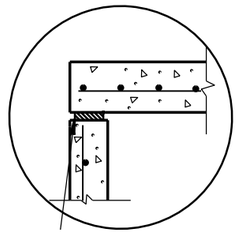


PLAN VIEW CIRCULAR OPENING

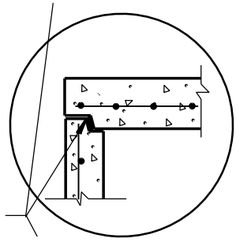


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

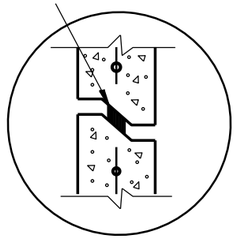


TOP WITH PLAIN END JOINT



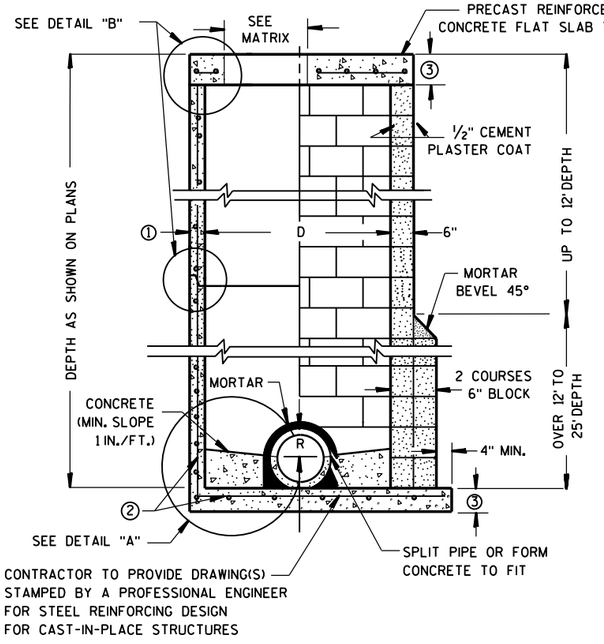
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



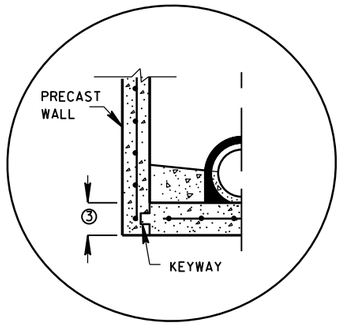
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

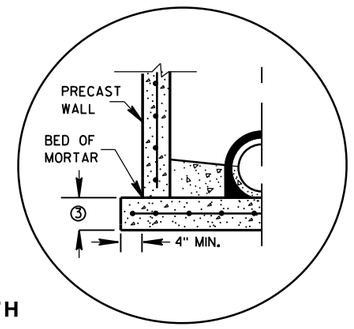


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

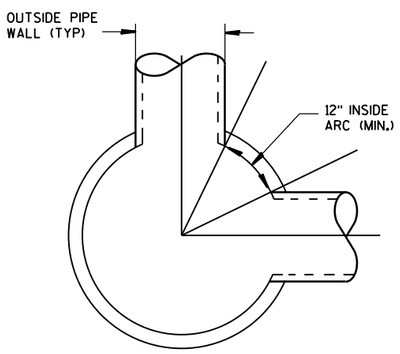


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

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

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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DATE

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ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

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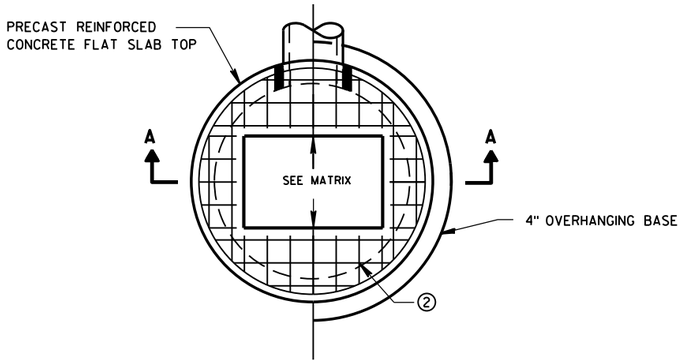
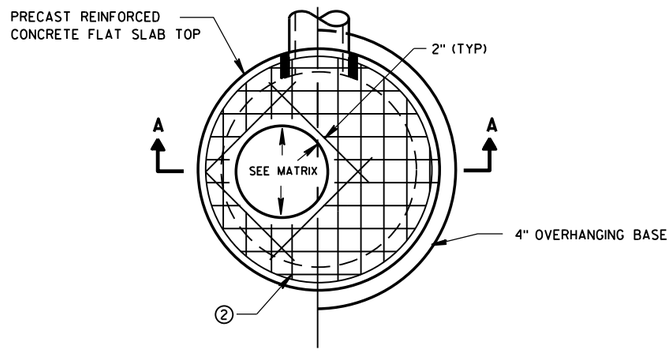
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

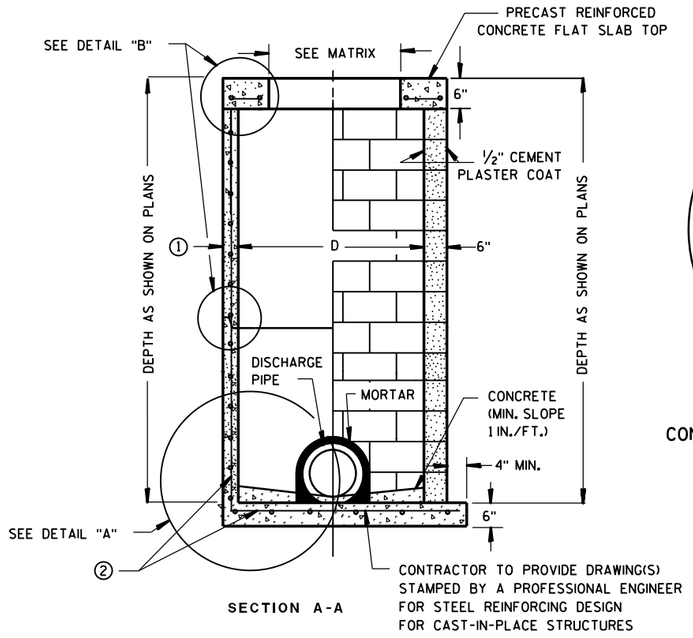
6
S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

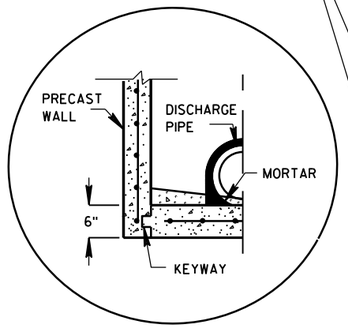


SECTION A-A

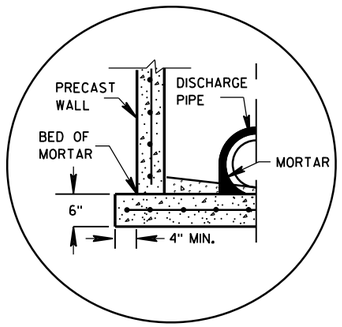
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

CIRCULAR INLETS W/ FLAT TOP

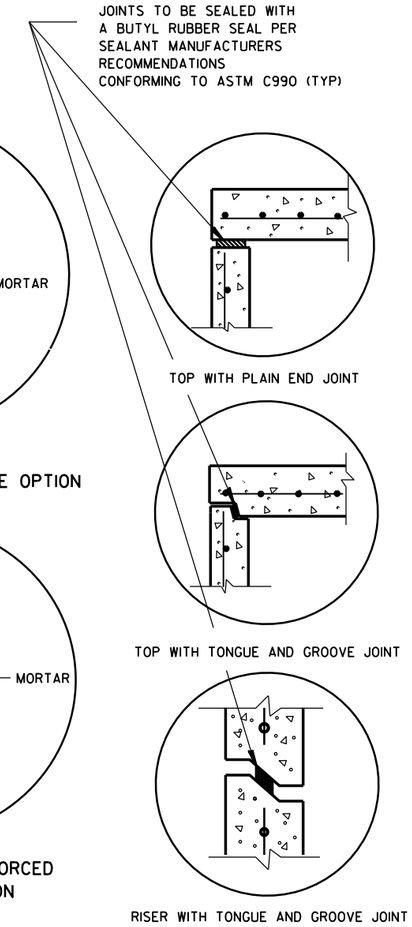


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

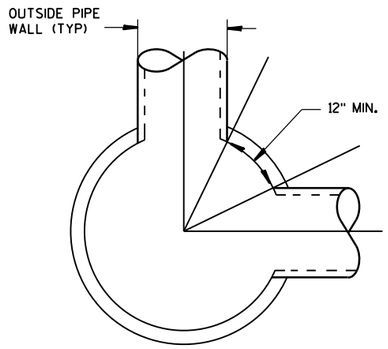
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

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



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | ENT UNIT SUPERVI
FHWA

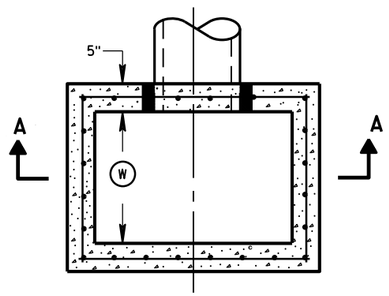
INLETS 3-FT AND 4-FT DIAMETER

6

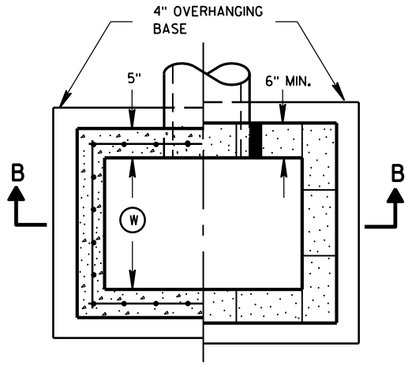
S.D.D. 8 C 6-2

6

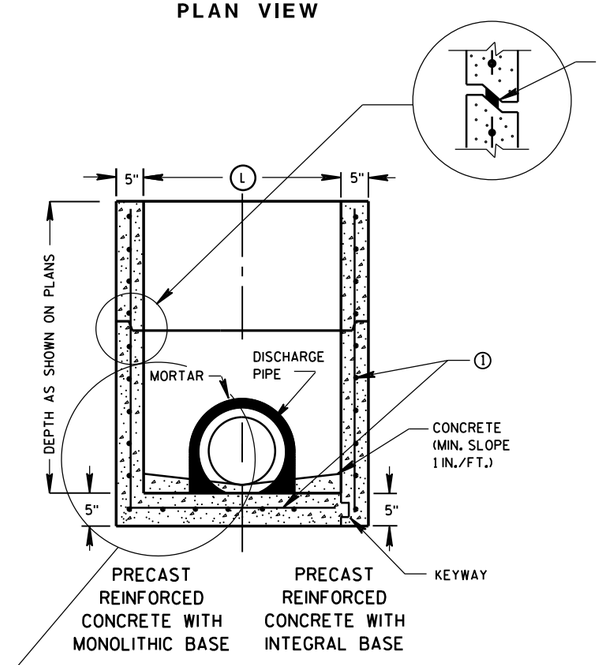
S.D.D. 8 C 6-2



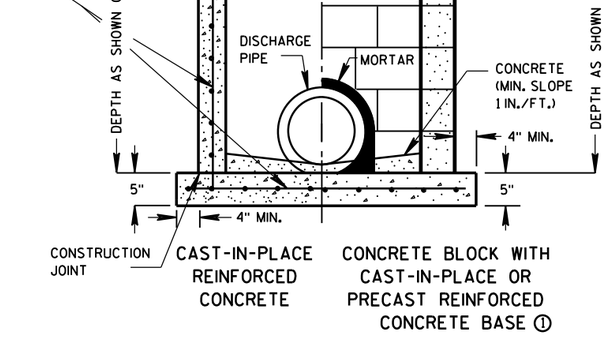
PLAN VIEW



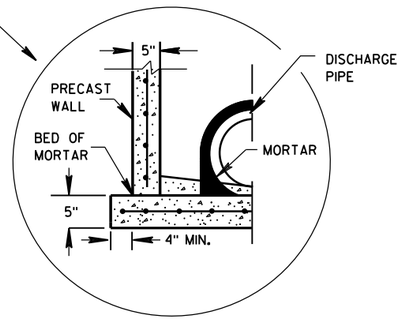
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

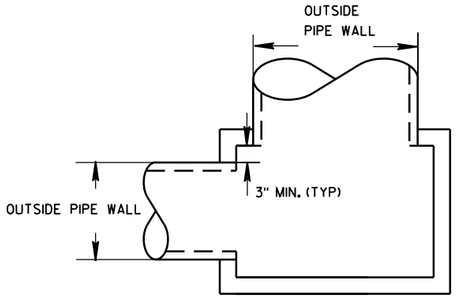
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
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FHWA

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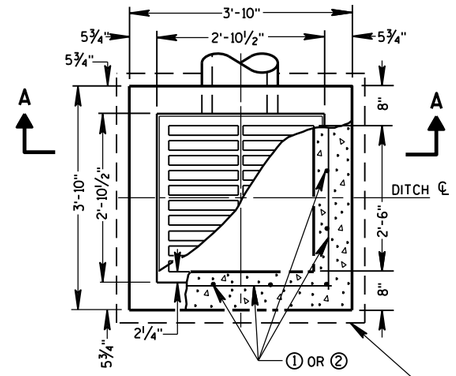
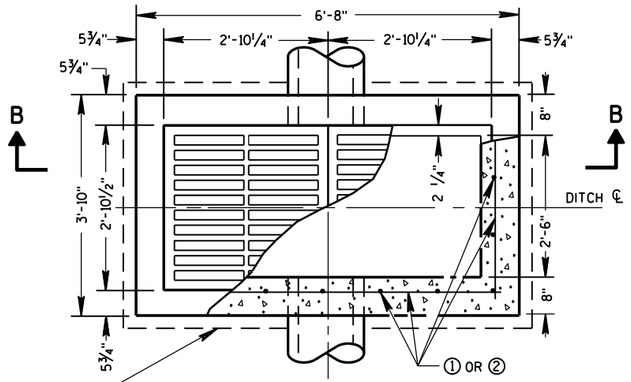
S.D.D. 8 C 7-2

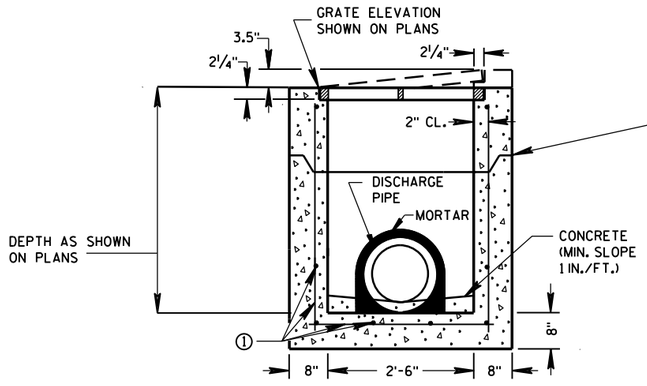


PLAN VIEW

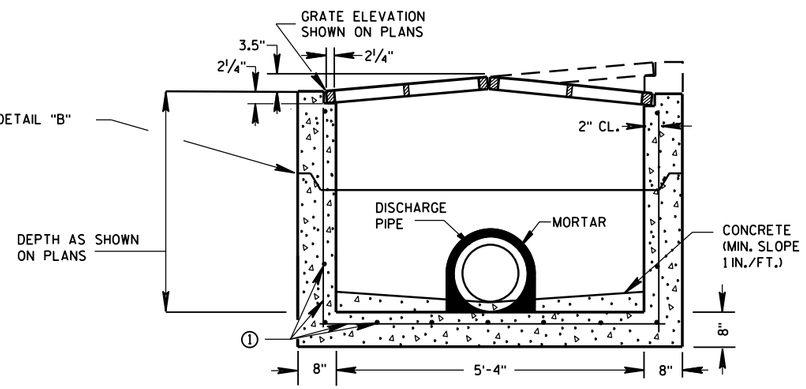


PLAN VIEW

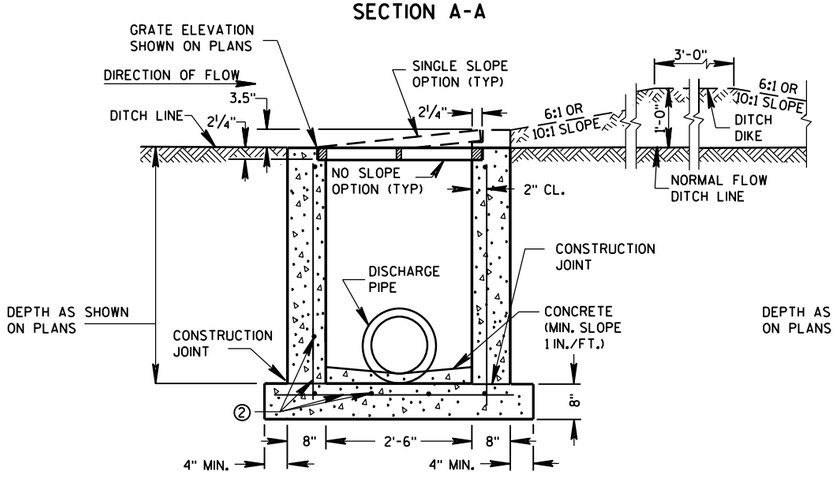
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



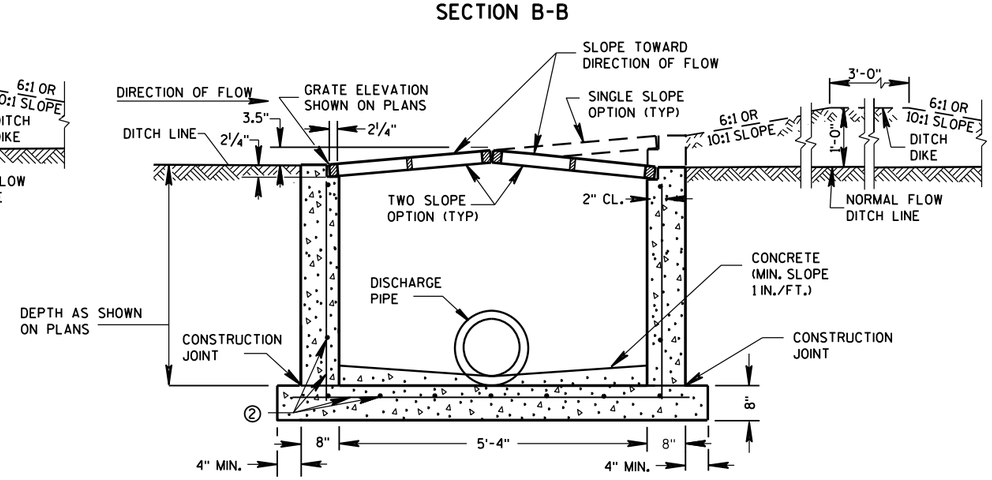
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

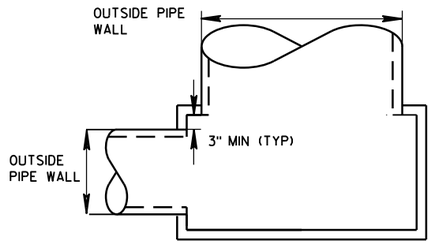
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

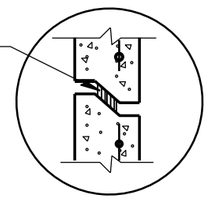
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

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



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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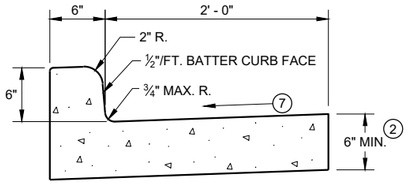
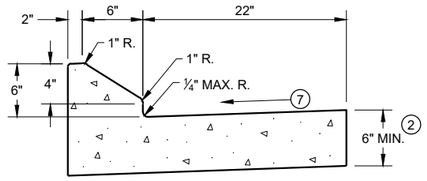
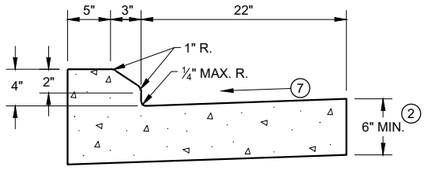


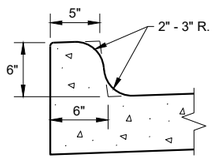
TYPES A[1] & D



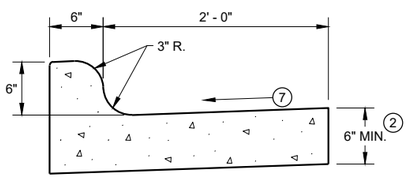
6" SLOPED CURB TYPES G[1] & J



4" SLOPED CURB TYPES G[1] & J

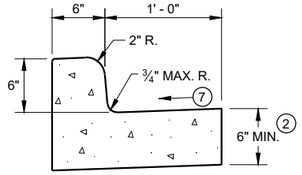


TYPES K[1] & L
(OPTIONAL CURB SHAPE)



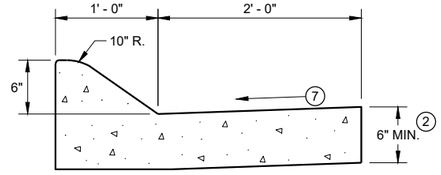
TYPES K[1] & L

CONCRETE CURB AND GUTTER 30"

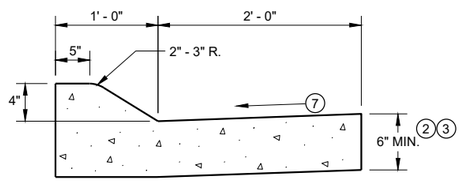


TYPES A[1] & D

CONCRETE CURB AND GUTTER 18"

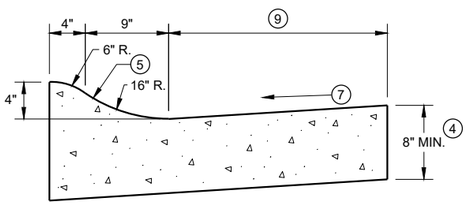


6" SLOPED CURB TYPES A[1] & D



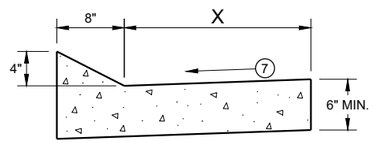
4" SLOPED CURB TYPES A[1] & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R[1] & T

TBT & TBTT	X
30"	22"
36"	28"

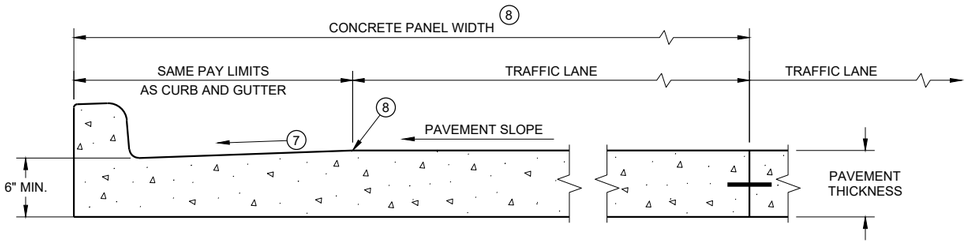


TYPES TBT & TBTT[1]

CONCRETE CURB AND GUTTER

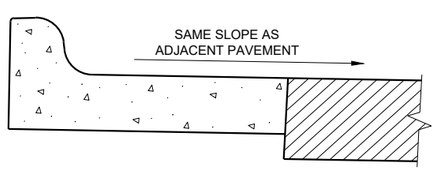
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER[6]
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

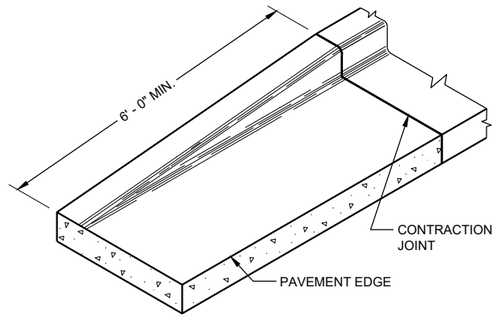
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

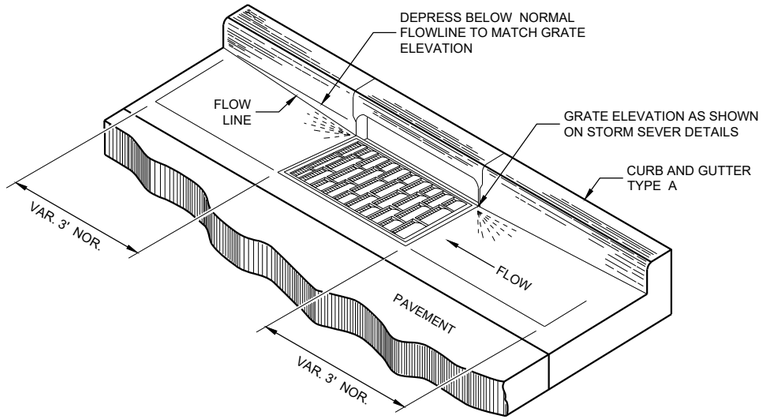
1. TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
4. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
5. UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
6. WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
7. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
8. INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
9. CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
   CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

SDD 08D01 - 22a
6



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

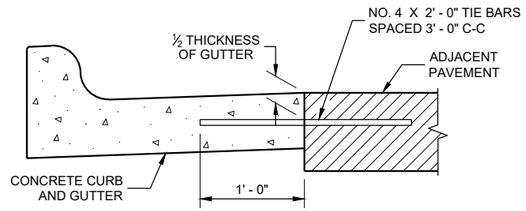
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

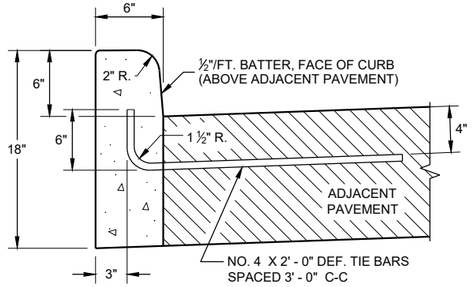
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

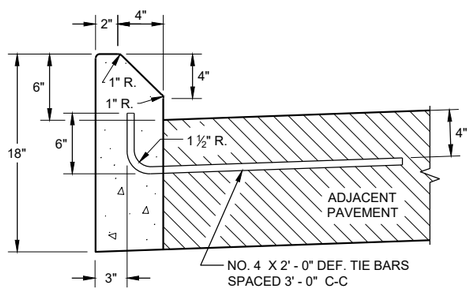
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

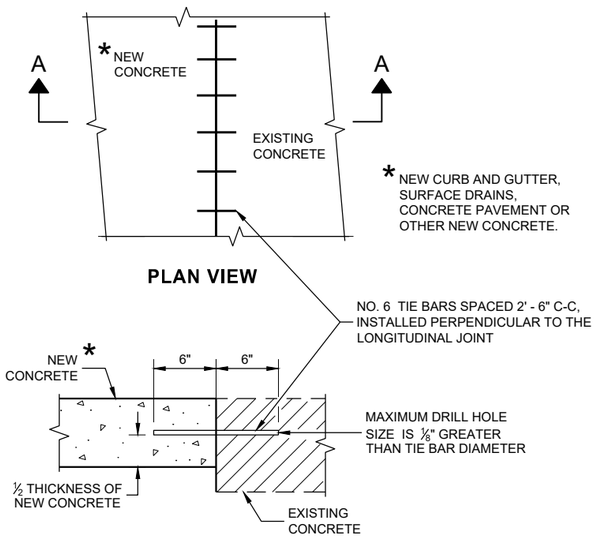


TYPES A (1) & D



TYPES G (1) & J

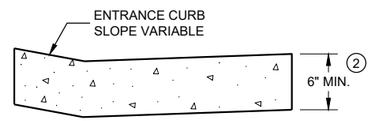
CONCRETE CURB



PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

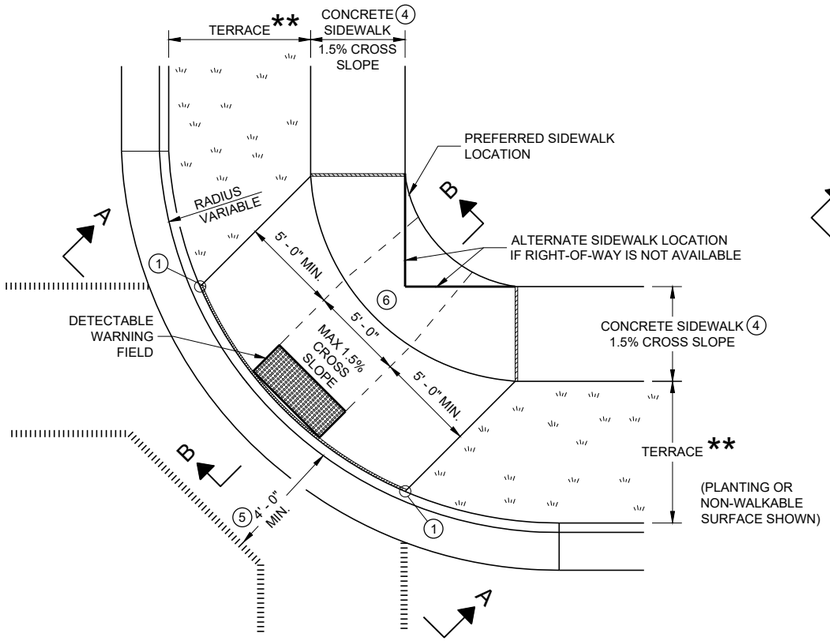
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

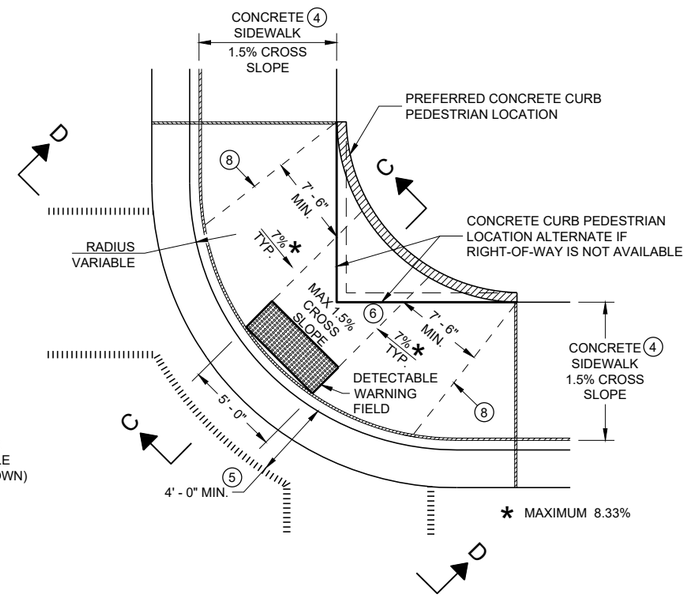
SDD08D01 - 22b



PLAN VIEW

CURB RAMP TYPE 1

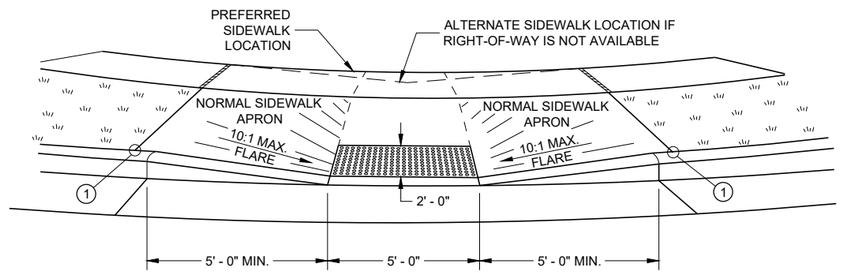
(CENTER OF CORNER RADIUS)



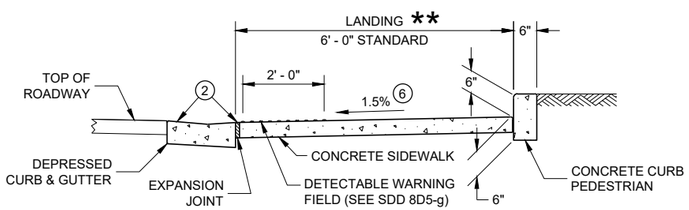
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

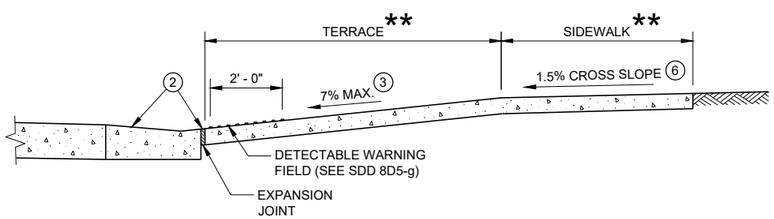


VIEW A - A FOR TYPE 1

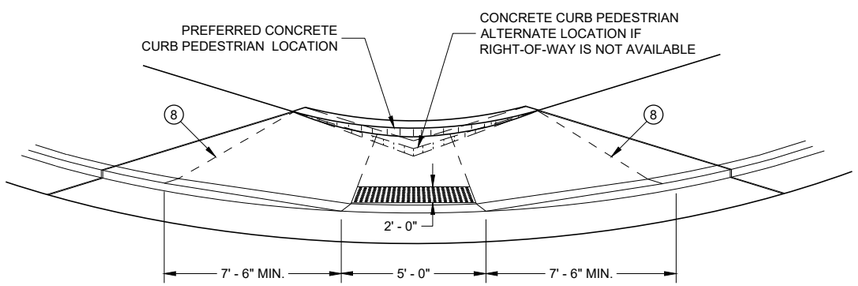


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

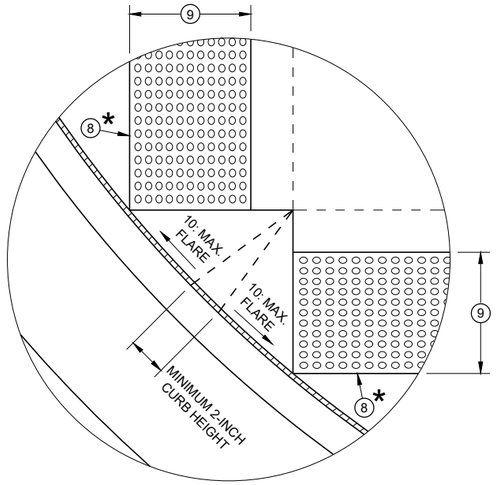
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

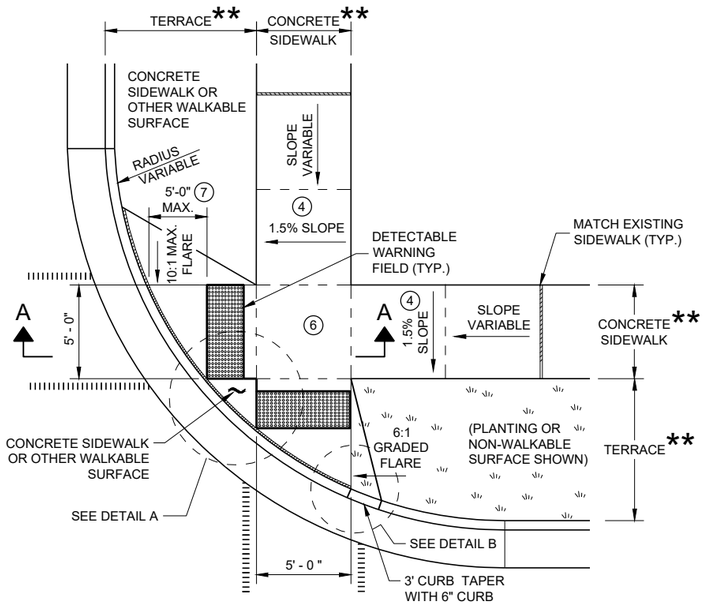
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

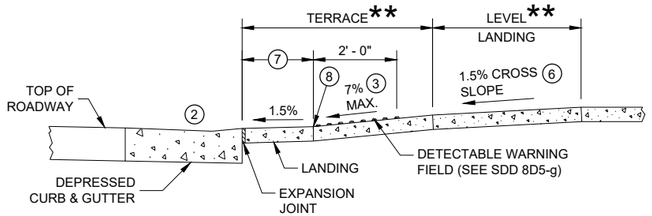
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

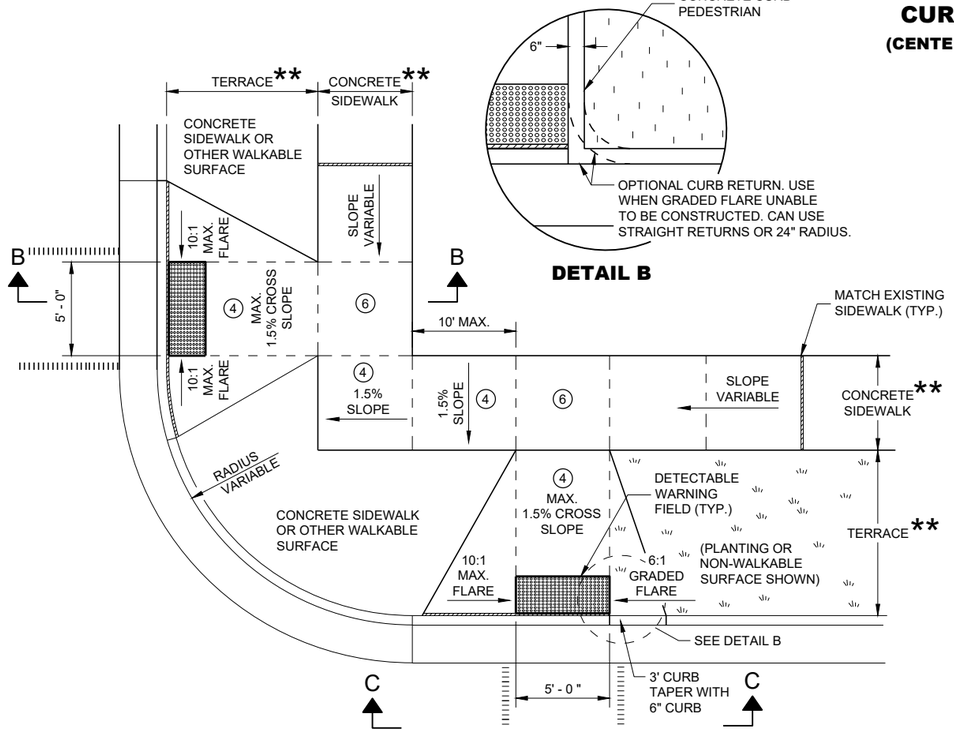
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

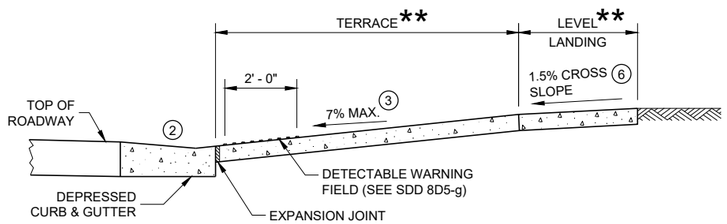
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

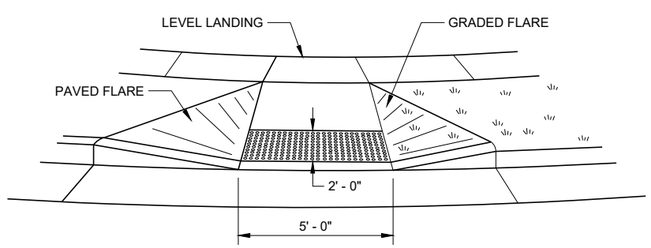


DETAIL B

PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

LEGEND

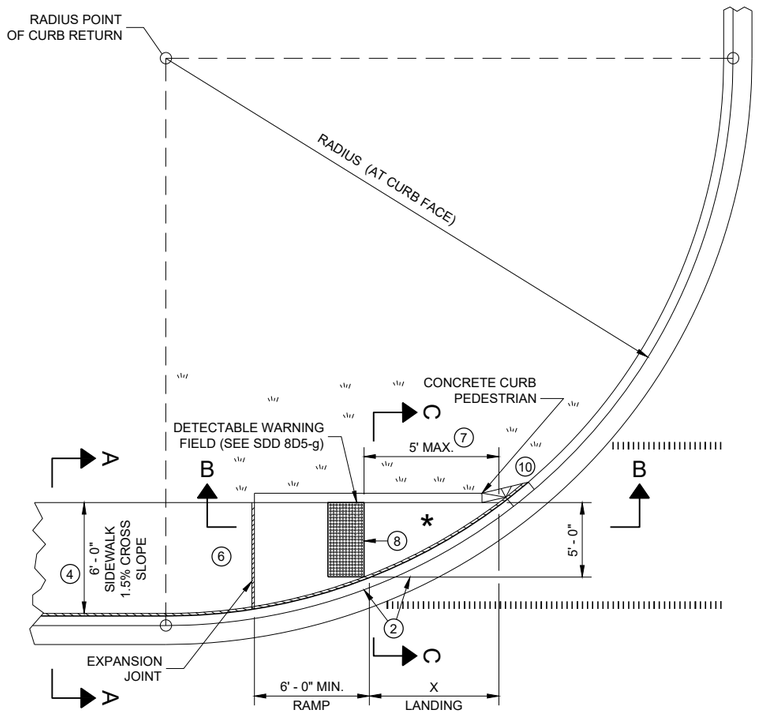
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

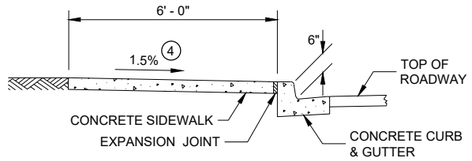


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

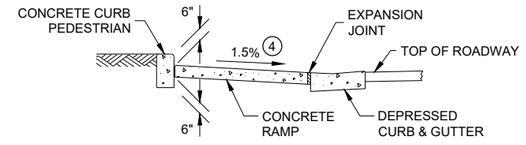
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

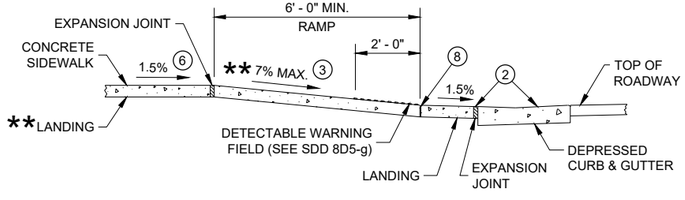
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



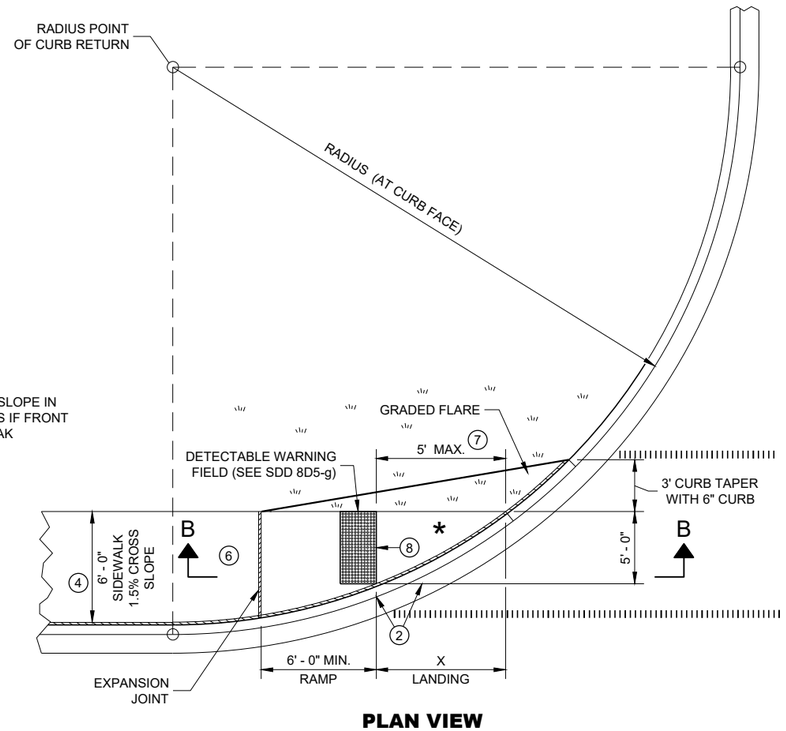
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

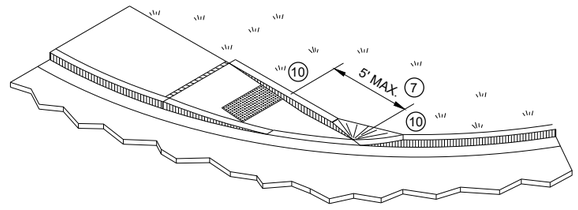
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

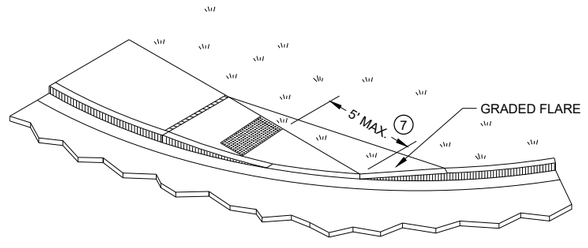


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



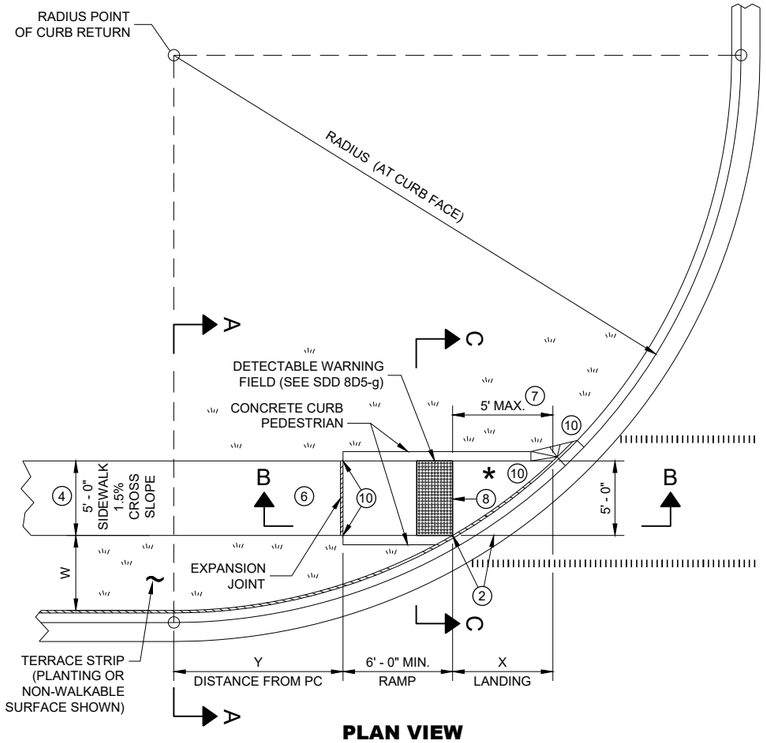
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

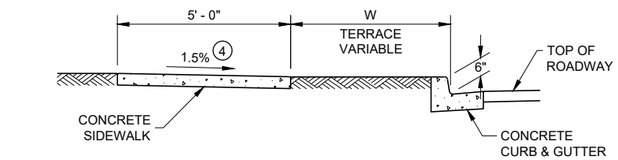
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

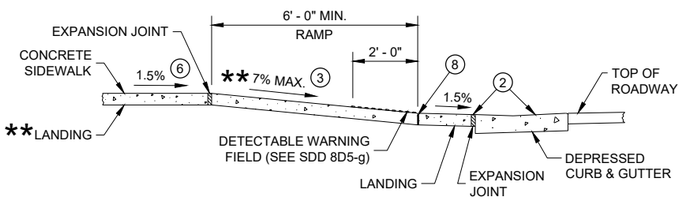
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



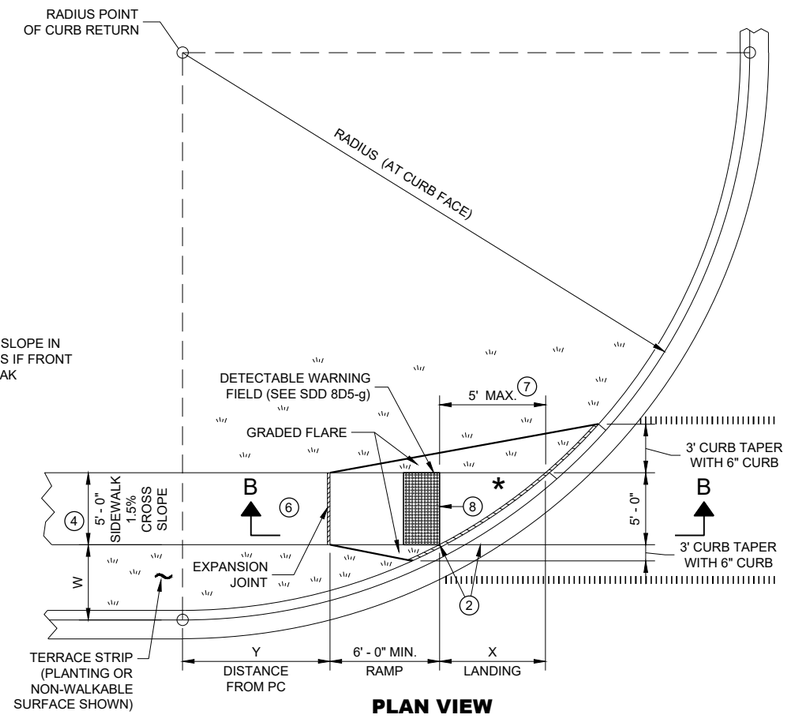
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

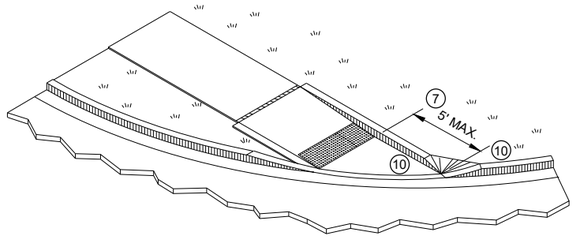
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

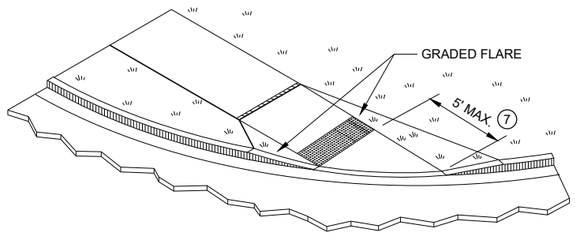


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B

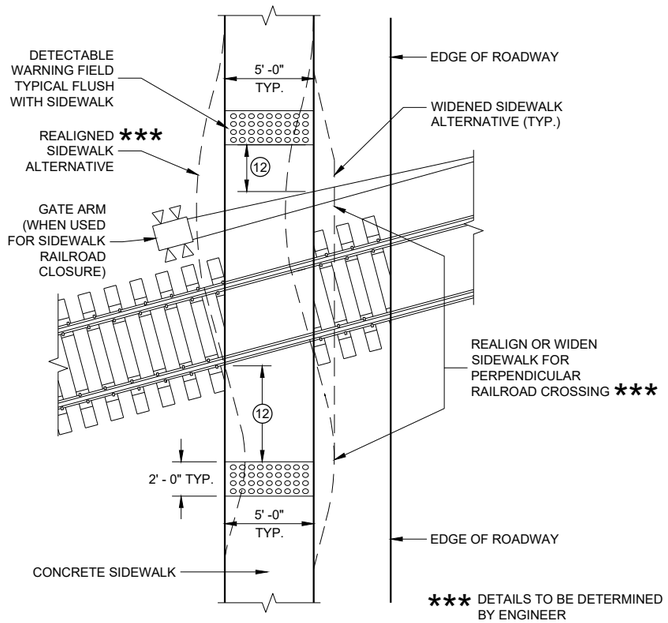


ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

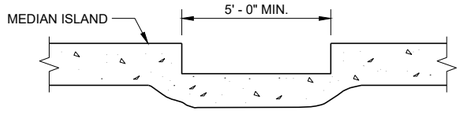
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20d

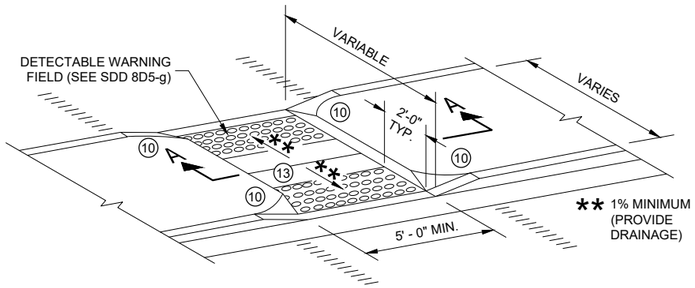


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

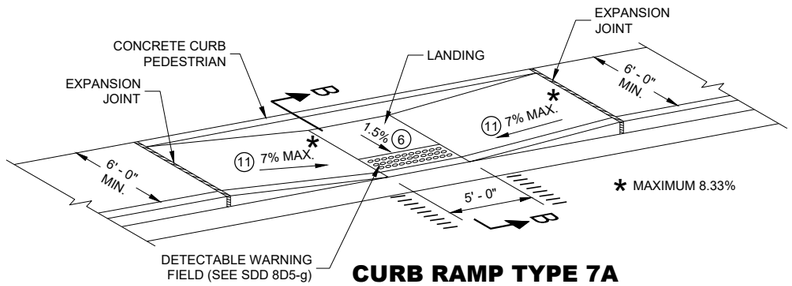
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

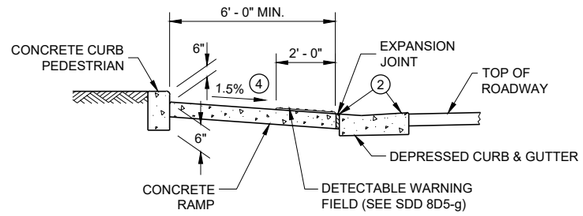
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

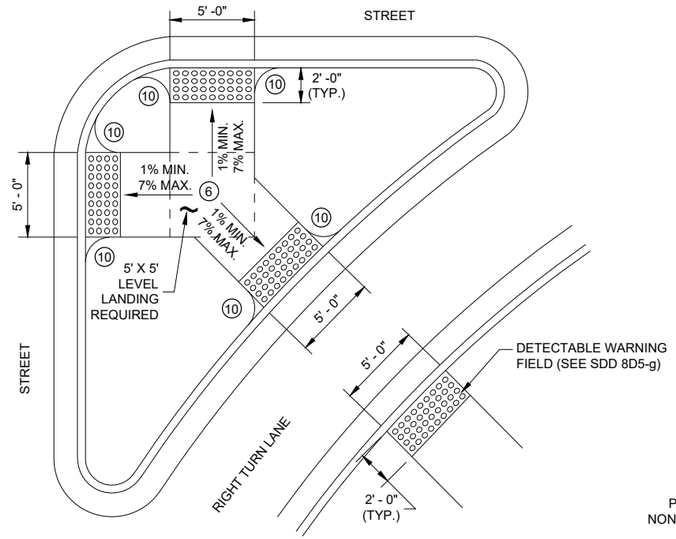


CURB RAMP TYPE 7A

MID BLOCK CROSSING



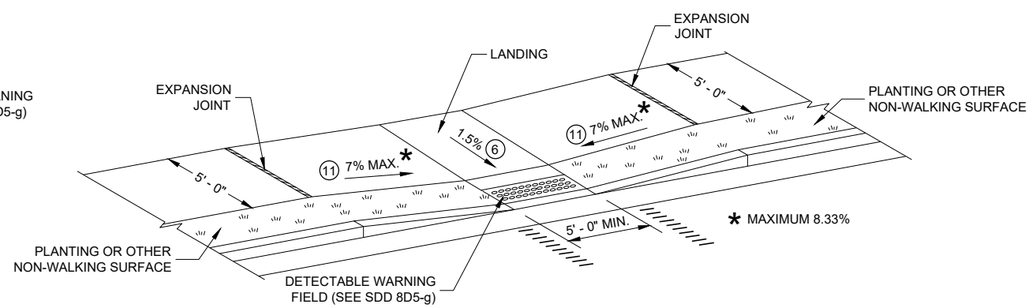
SECTION B - B FOR TYPE 7A



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

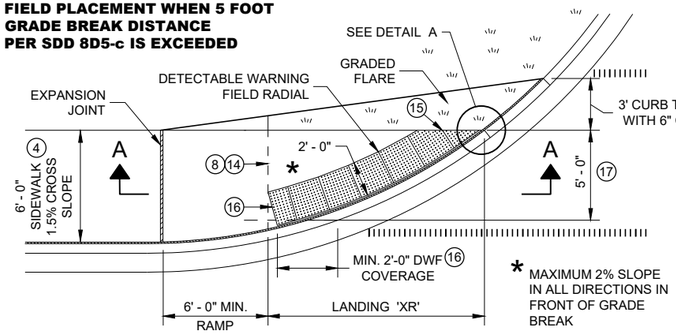
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20e

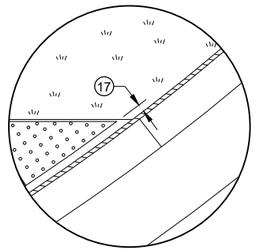
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



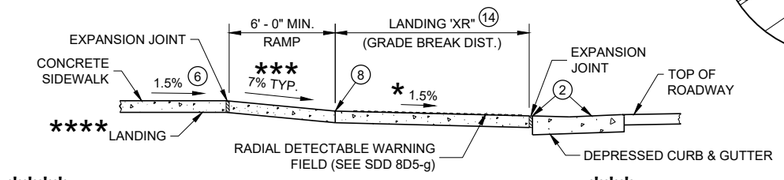
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

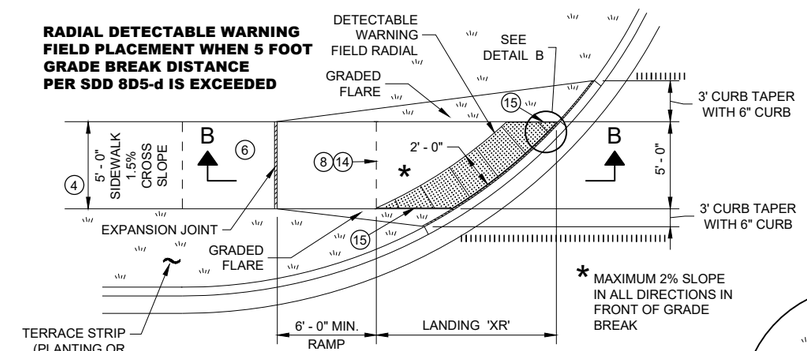


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

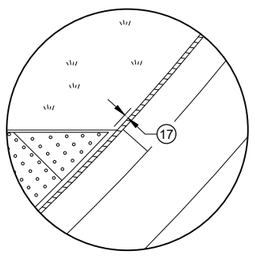
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



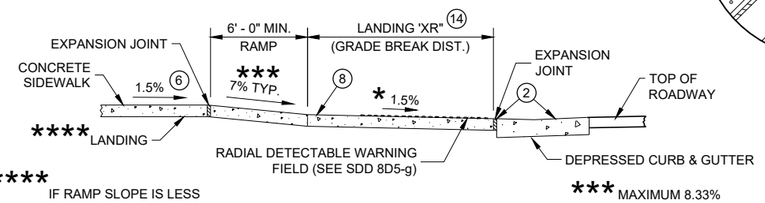
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

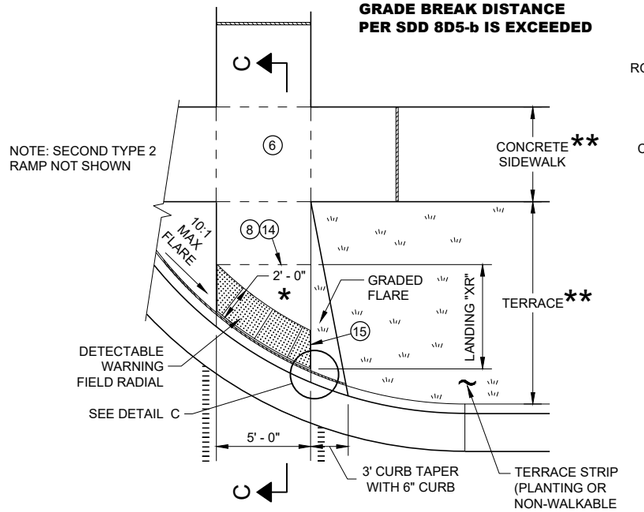
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

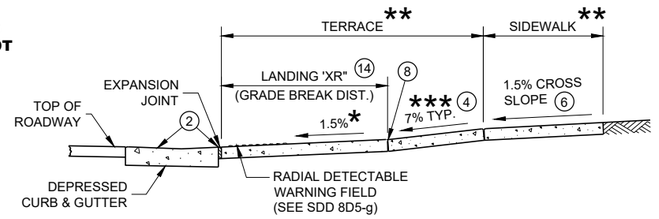


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

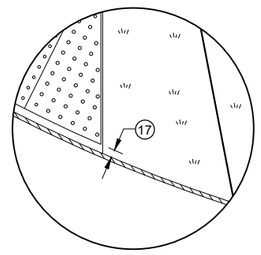


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20f

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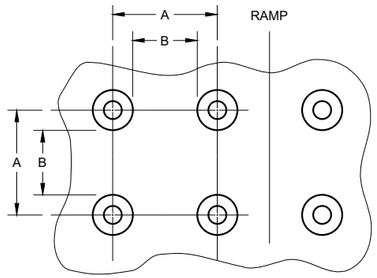
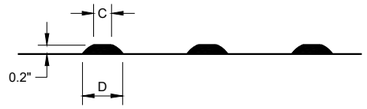
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

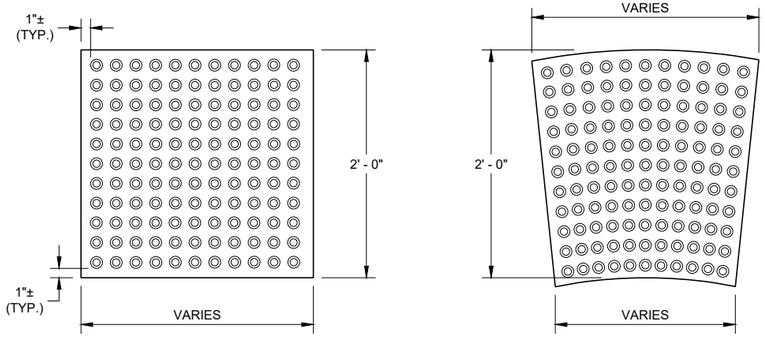


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

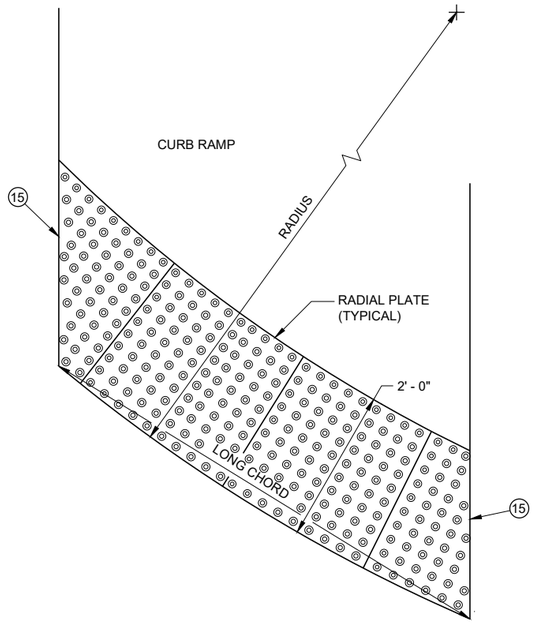
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

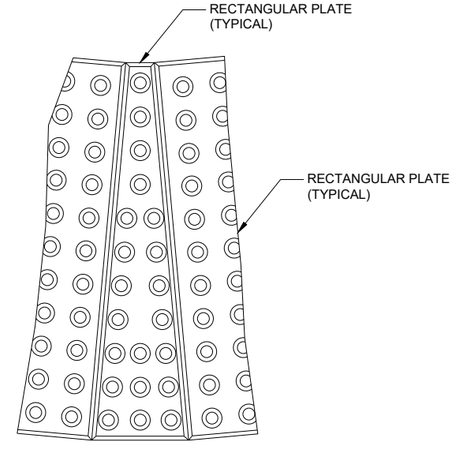
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

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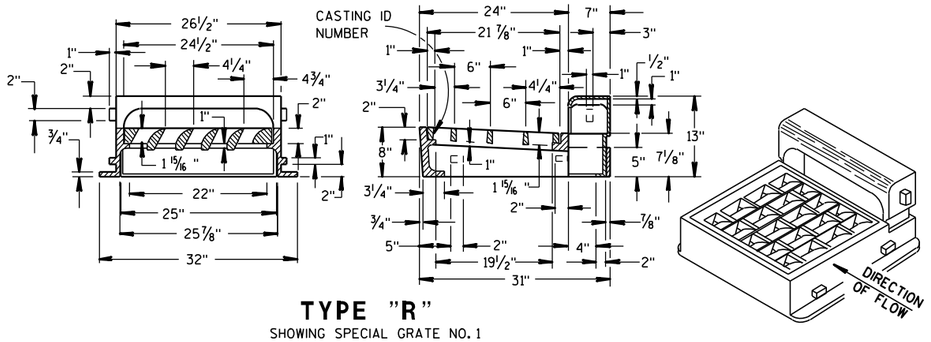
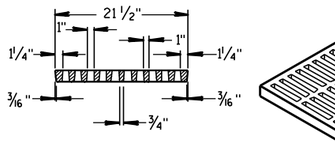
SDD 08D05 - 20g

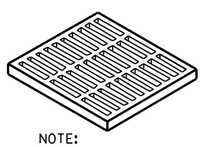
INLET COVERS



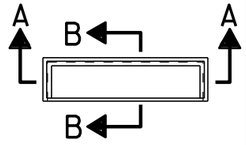
TYPE "R"

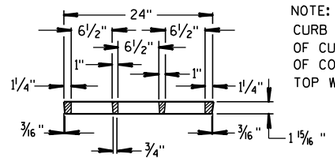
SHOWING SPECIAL GRATE NO. 1
(TO BE NOTED AS R-1 IN DRAINAGE TABLE)



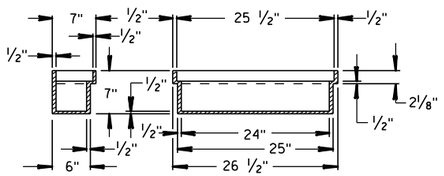


(APPROX. WEIGHT - 510 LBS.)
FRAME..... 245 LBS.
CURB..... 120 LBS.
GRATE..... 145 LBS.





NOTE:
CURB PLUG USED IN PLACE OF CURB BOX IN ABSENCE OF CONC. CURB. FILL TO TOP WITH CONCRETE.



GRATE FOR TYPE "R" INLET COVER

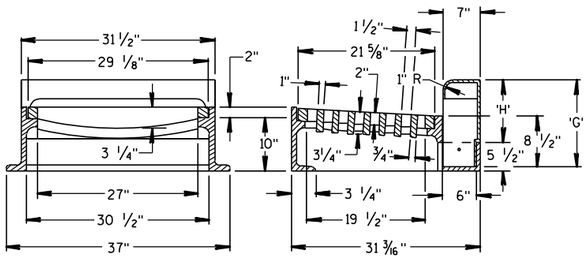
(GRATE..... 150 LBS.)
(TO BE USED UNLESS OTHERWISE NOTED IN DRAINAGE TABLE)

SECTION B-B SECTION A-A

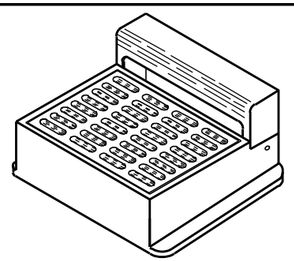
SPECIAL CURB PLUG "P"

(CURB PLUG..... 85 LBS.)
(TO BE NOTED AS R-P IN DRAINAGE TABLE)

'H' = 9" FOR 6" CURB
'H' = 11" FOR 8" CURB
'G' = 13 3/4" FOR 6" CURB
'G' = 15 3/4" FOR 8" CURB



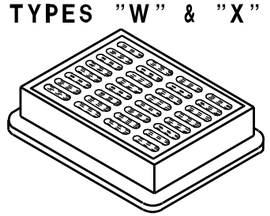
TYPE "W"

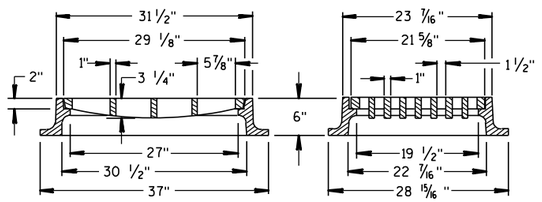


(APPROX. WEIGHT - 670 LBS.)
FRAME..... 350 LBS.
CURB BOX..... 135 LBS.
GRATE..... 185 LBS.

ALTERNATE GRATE
(FOR EXPRESSWAY RAMPS)

TYPES "W" & "X"

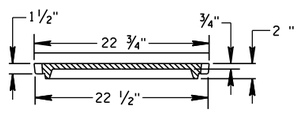




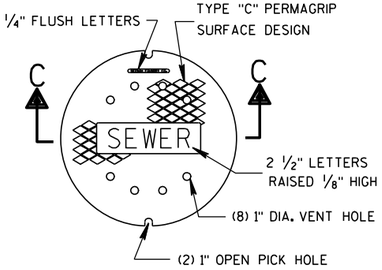
TYPE "X"

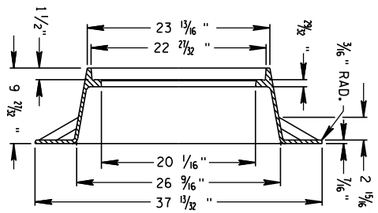
(APPROX. WEIGHT - 470 LBS.)

MANHOLE COVER



SECTION C-C

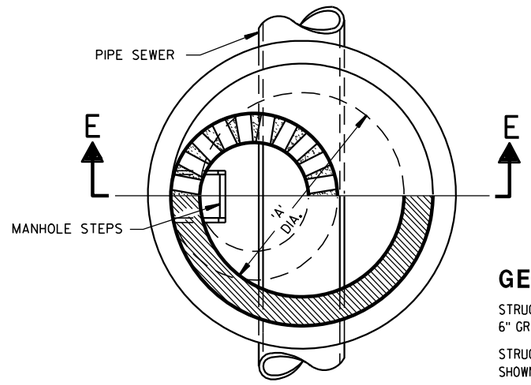




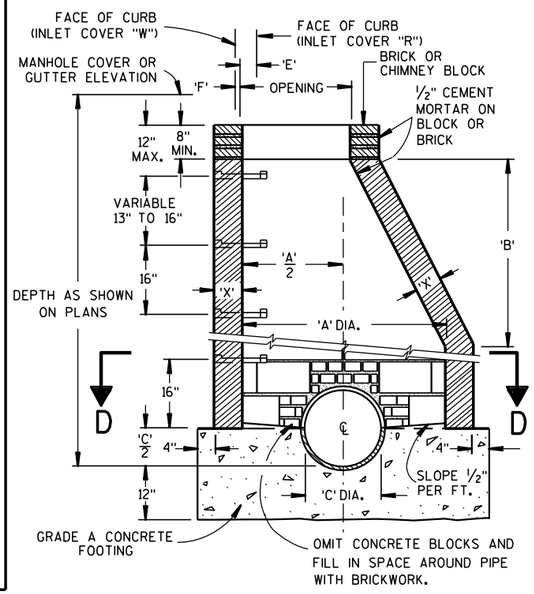
TYPE "Q"

(APPROX. WEIGHT - 290 LBS.)

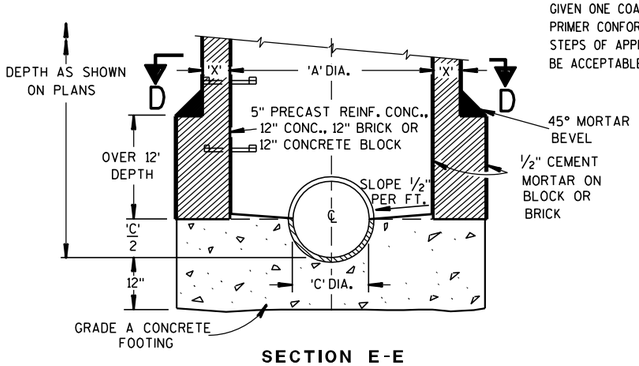
MANHOLE



HALF SECTION D-D



SECTION E-E



SECTION E-E

TYPES 11, 12, 13 & 14

TABLE OF OPENING DIMENSIONS

COVER TYPE	COVER DESCRIPTION	OPENING	'E'	'F'
"O"	ROUND	2'-2" DIA.	—	—
"W"	CURB BOX	1'-8" X 2'-6"	—	1"
"X"	INLET	1'-10" X 2'-6"	—	—
"R"	CURB BOX	2'-0" X 2'-1"	4"	—

TABLE OF DIMENSIONS

TYPE	'A'	'B'	'C'
11	3'-6"	2'-8"	12" - 36"*
12	4'-0"	3'-8"	12" - 42"**
13	5'-0"	5'-8"	42" - 48"
14	6'-0"	7'-8"	54" - 60"

* 12" - 21" FOR PRECAST MANHOLES
** 12" - 24" FOR PRECAST MANHOLES

THE FIRST STEP SHALL BE PLACED 16" ABOVE THE BENCH.

GENERAL NOTES

STRUCTURE WALL THICKNESS 'X' TO BE 8" BRICK, 6" CONCRETE BLOCK, 6" GRADE A CONCRETE OR 5" PRECAST REINFORCED CONCRETE.

STRUCTURE FOOTINGS ARE TO BE GRADE A CONCRETE OF THE THICKNESS SHOWN IN THE DETAIL OR 5" PRECAST REINFORCED CONCRETE.

REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED SREEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.

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

PRECAST CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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

SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON THE PLANS.

THE CONTRACTOR MAY FORM AND POUR MONOLITHIC CONCRETE INVERT PROVIDED THE PIPE ENDS ARE EXTENDED INTO THE M.H. AND NOT TERMINATED WITHIN THE M.H. WALLS.

MANHOLE STEPS

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH; 16 INCH C-C MAX. SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM WALL EMBEDMENT OF 3 INCHES IN PRECAST MANHOLE AND 6 INCHES IN 8 INCH BRICK OR 6 INCH BLOCK MANHOLE; TREAD OF STEP SHALL HAVE A NON-SKID SURFACE AND BE FLANKED BY CLEATS, WITH A MINIMUM OF 10 INCHES CLEAR BETWEEN CLEATS, TO PREVENT FOOT SLIPPING OFF THE EDGE CLEATS SHALL BE A MINIMUM OF 3/4 INCH HIGH BY 3/4 INCH WIDE HAVING A MINIMUM THICKNESS OF 5/8 INCH. STEPS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

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

MANHOLES, MANHOLE & INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/12/2011 — DATE
/S/ Jerry H. Zogg — ROADSIDE STANDARDS ENGINEER
FHWA

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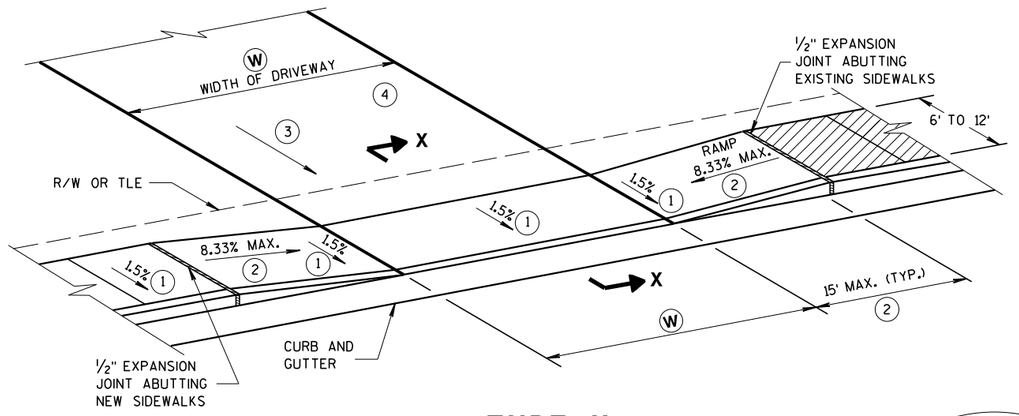
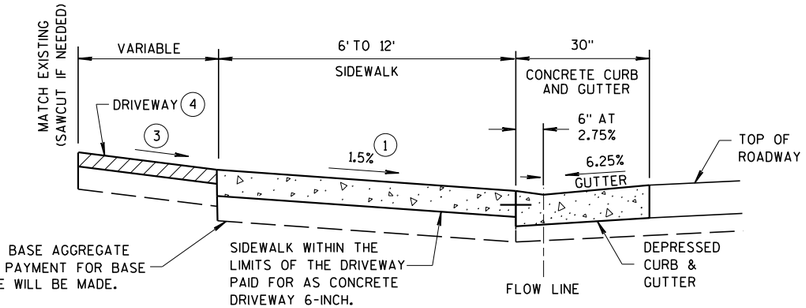
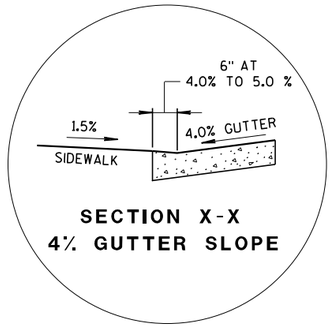
S.D.D. 8 D 17-6



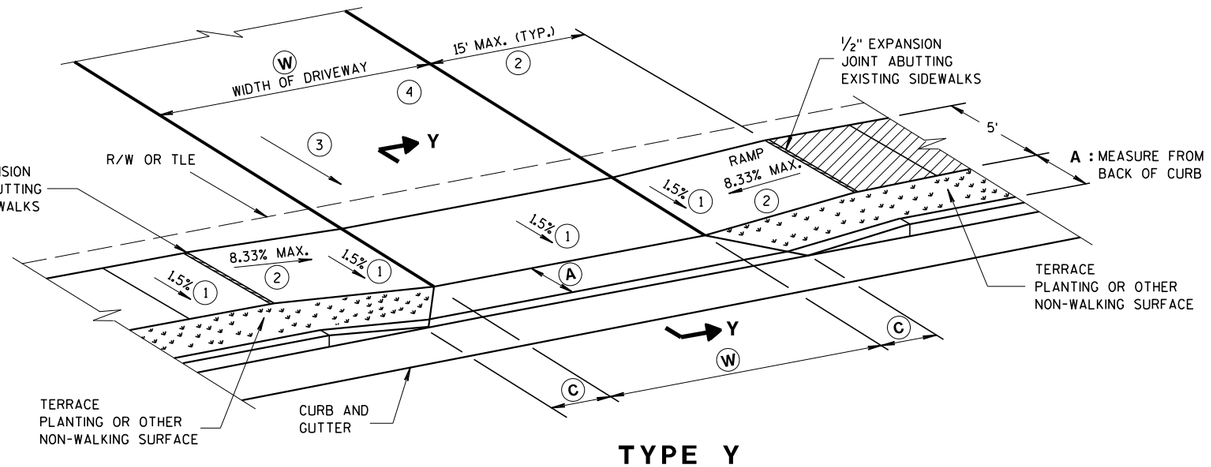
TYPE X
SIDEWALK ABUTS CURB & GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X-X



SECTION X-X
4% GUTTER SLOPE



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

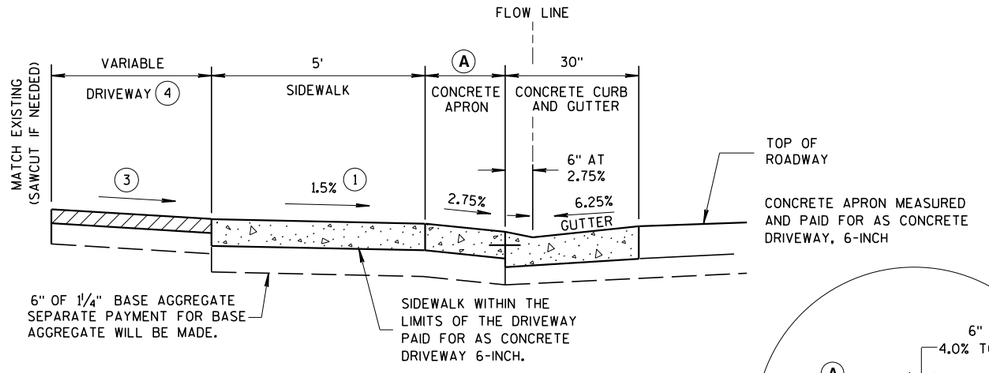
OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

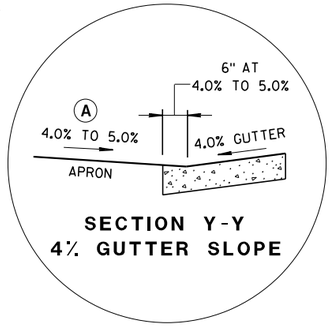
(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER
(URBAN AND SUBURBAN)



SECTION Y-Y
4% GUTTER SLOPE

TABLE Y

(A) FEET	(C) FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS
TYPES X & Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

S.D.D. 8 D 18-2

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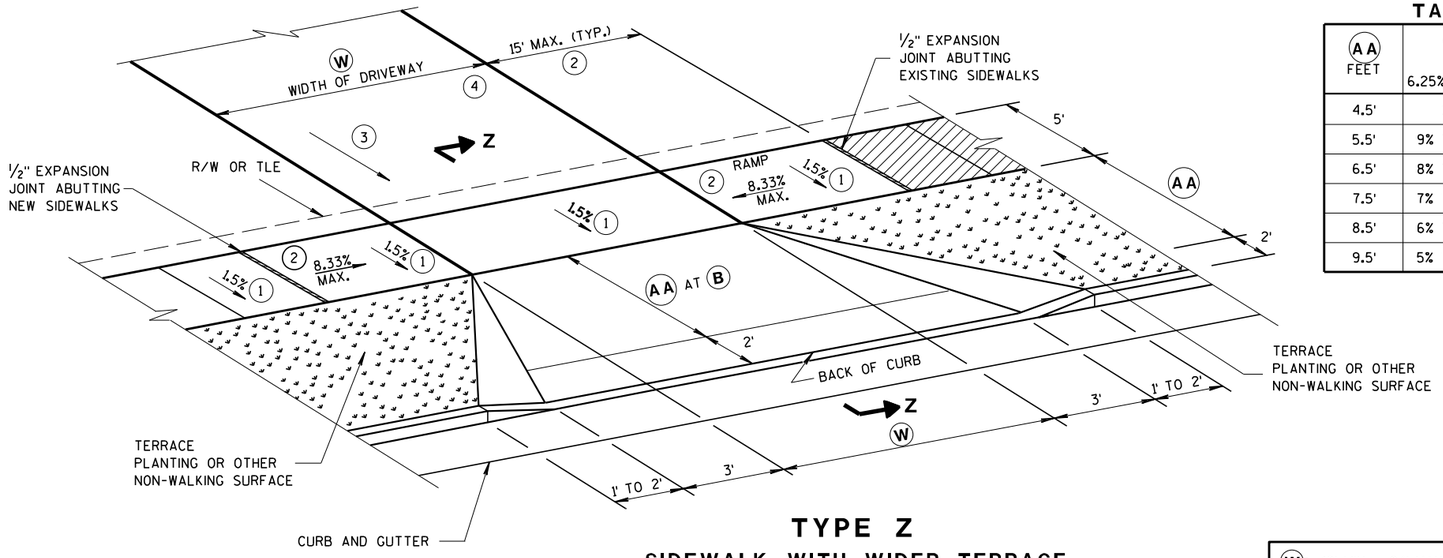


TYPE Z

SIDEWALK WITH WIDER TERRACE

TERRACE VARIES 7 TO 12 FEET

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM

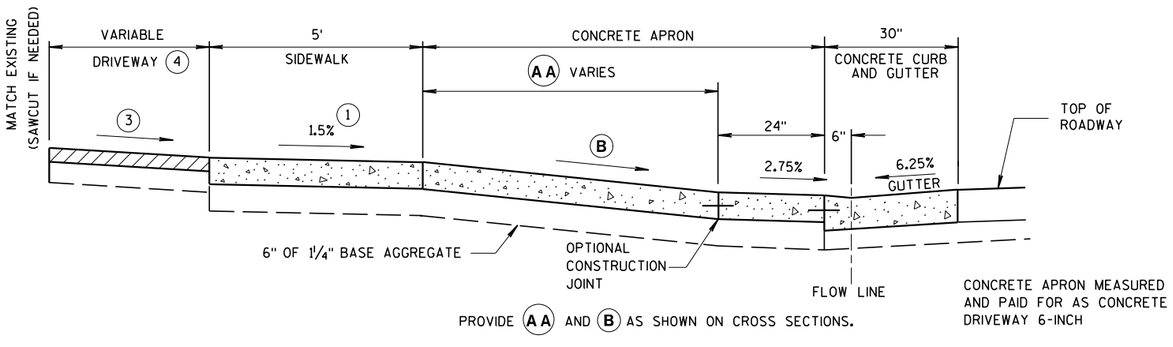
10.5% UP AWAY FROM SIDEWALK (SAG)

8.5% DOWN AWAY FROM SIDEWALK (CREST)

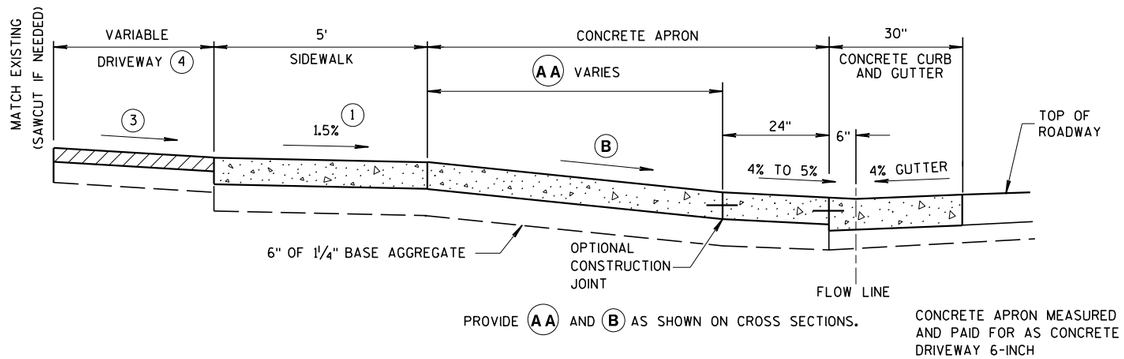
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES

- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)



6.25% GUTTER SLOPE



4% GUTTER SLOPE

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR **B** VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

SECTION Z-Z

DRIVEWAY DETAIL WITH CONCRETE CURB & GUTTER

(URBAN AND SUBURBAN)

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

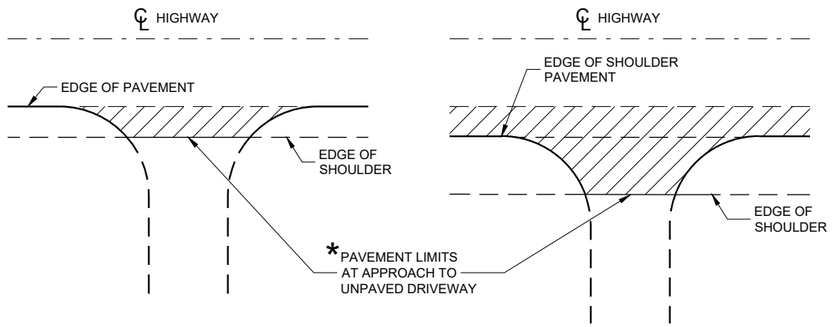
APPROVED
March 2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 8 D 19-2

6

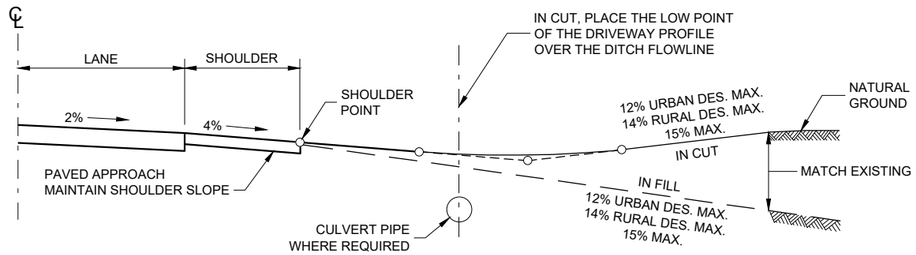
S.D.D. 8 D 19-2



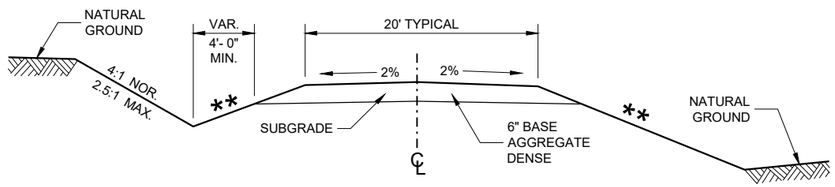
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

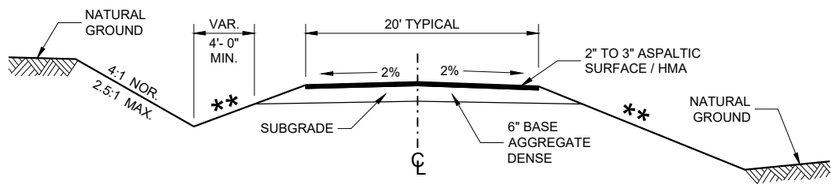


IN CUT IN FILL

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE



IN CUT IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

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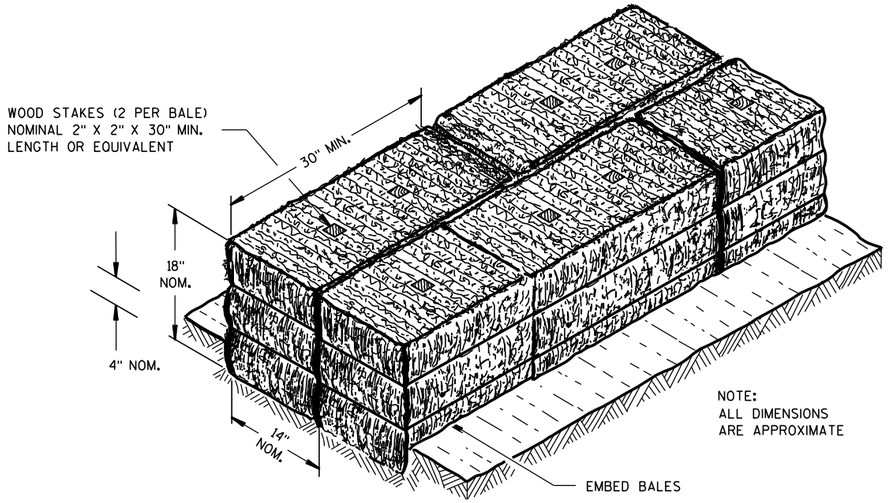
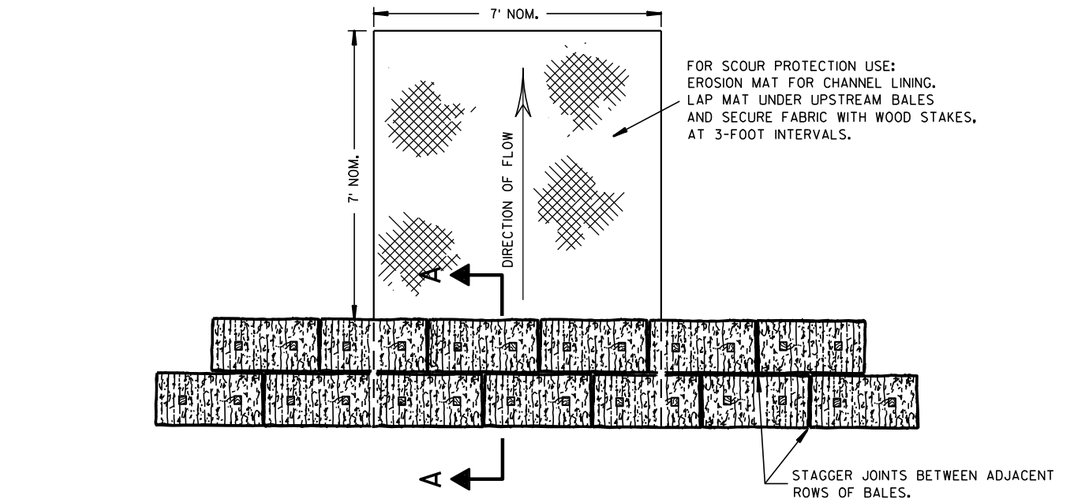
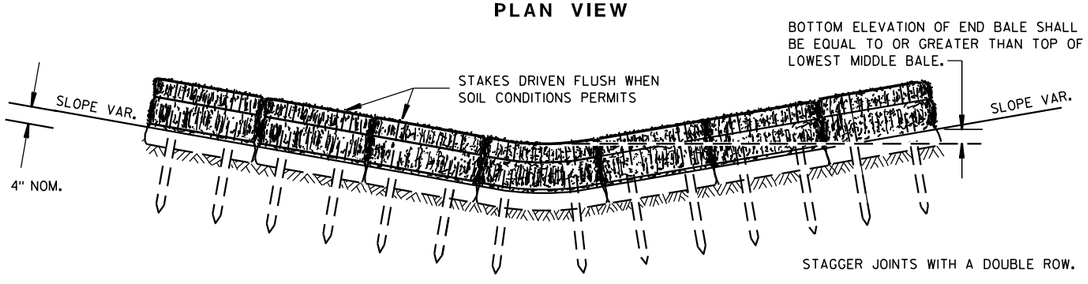
SDD 08D21 - 01



SECTION A-A



PLAN VIEW



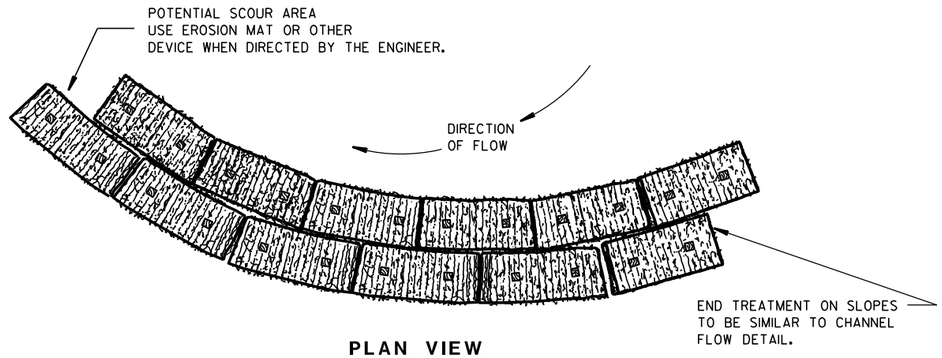
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

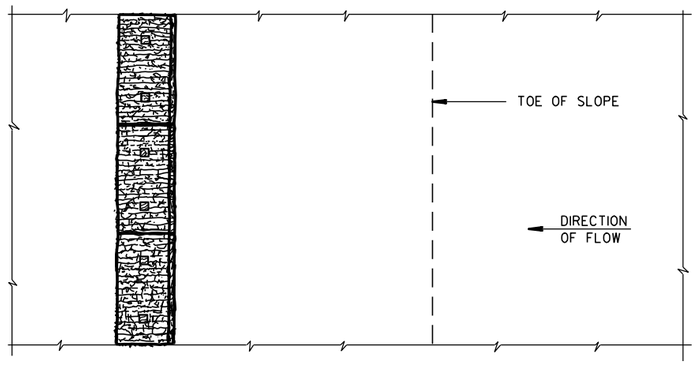
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

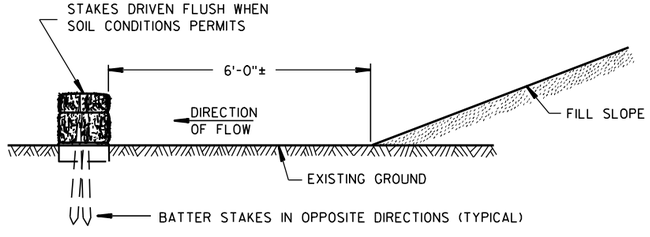


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

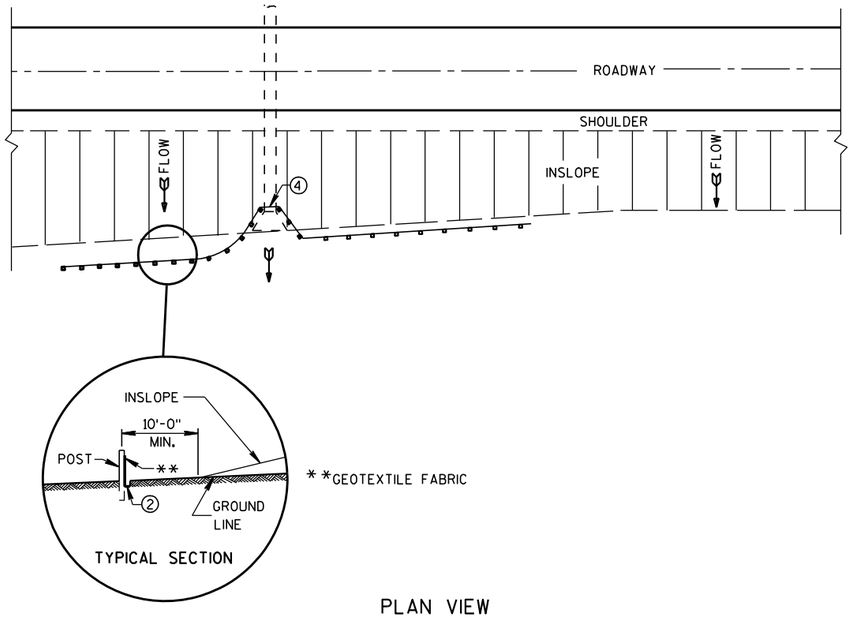
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

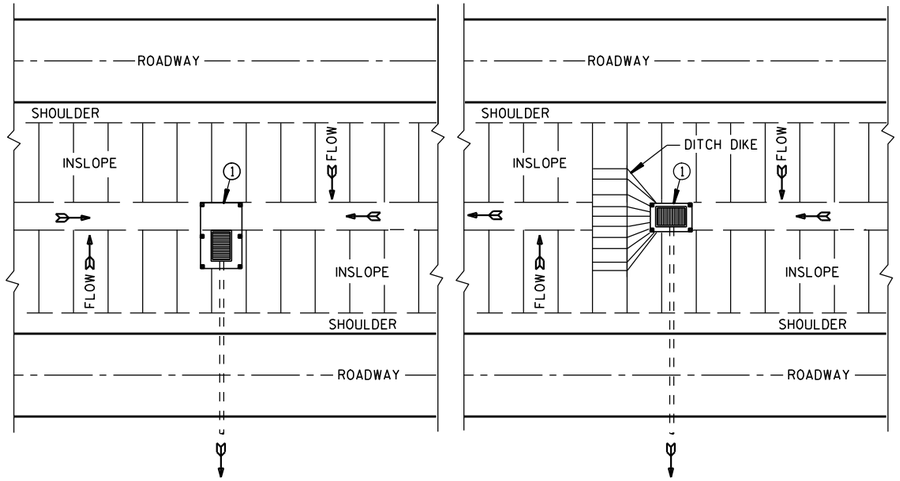
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



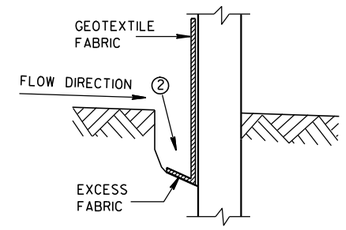
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

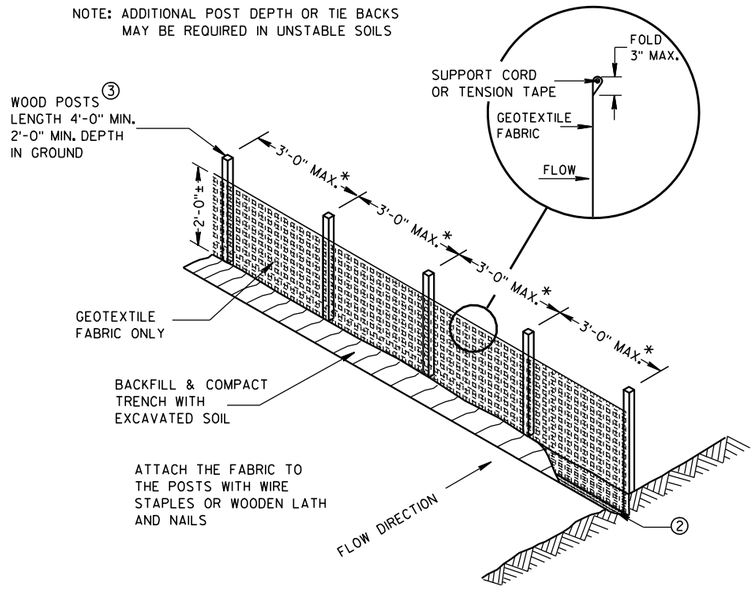
GENERAL NOTES

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

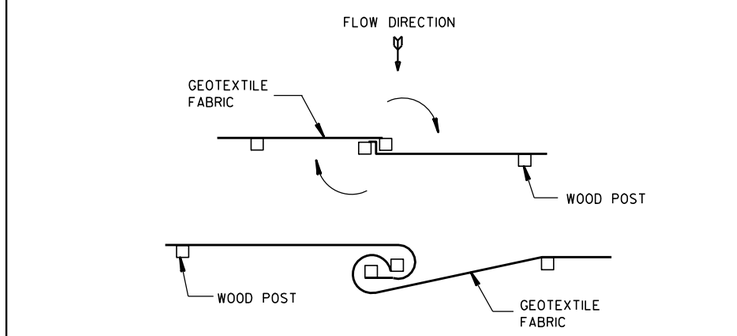
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



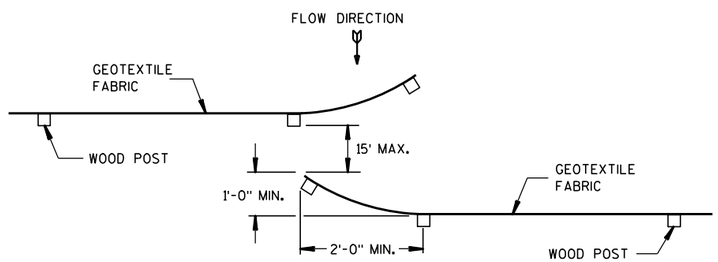
TRENCH DETAIL



SILT FENCE

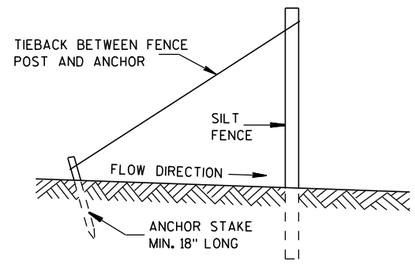


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 9-6

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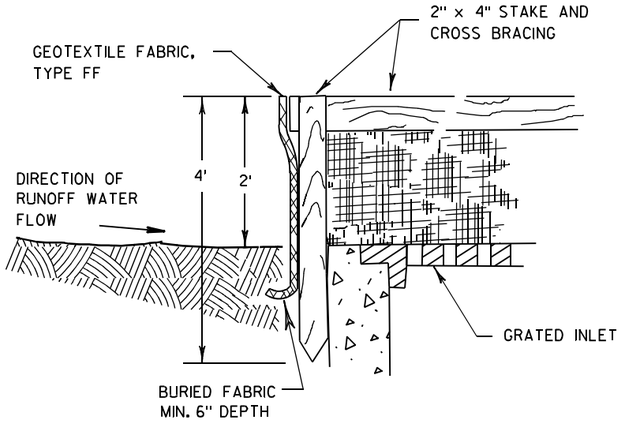
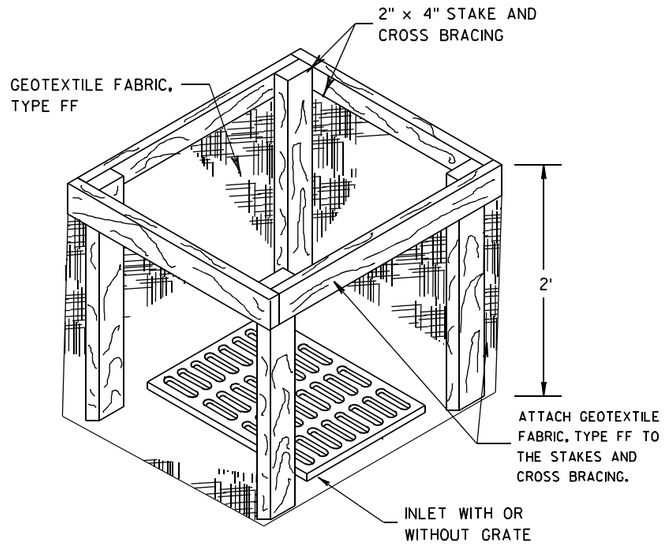
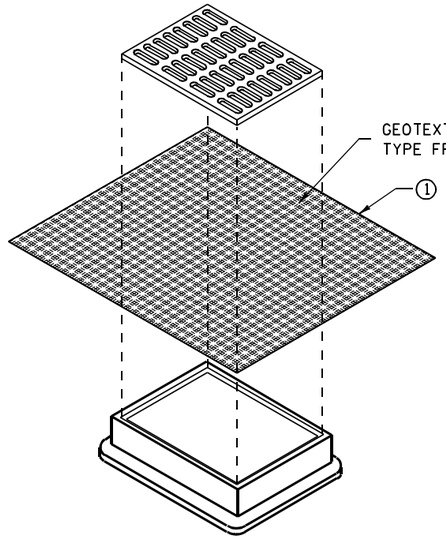
S.D.D. 8 E 9-6



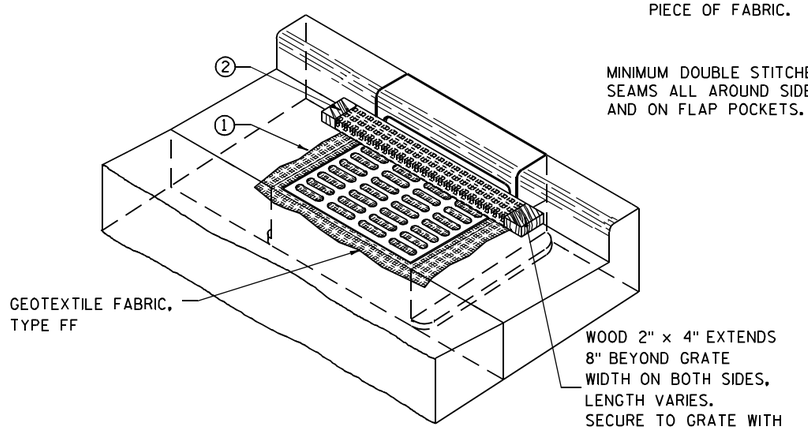


INLET PROTECTION, TYPE A

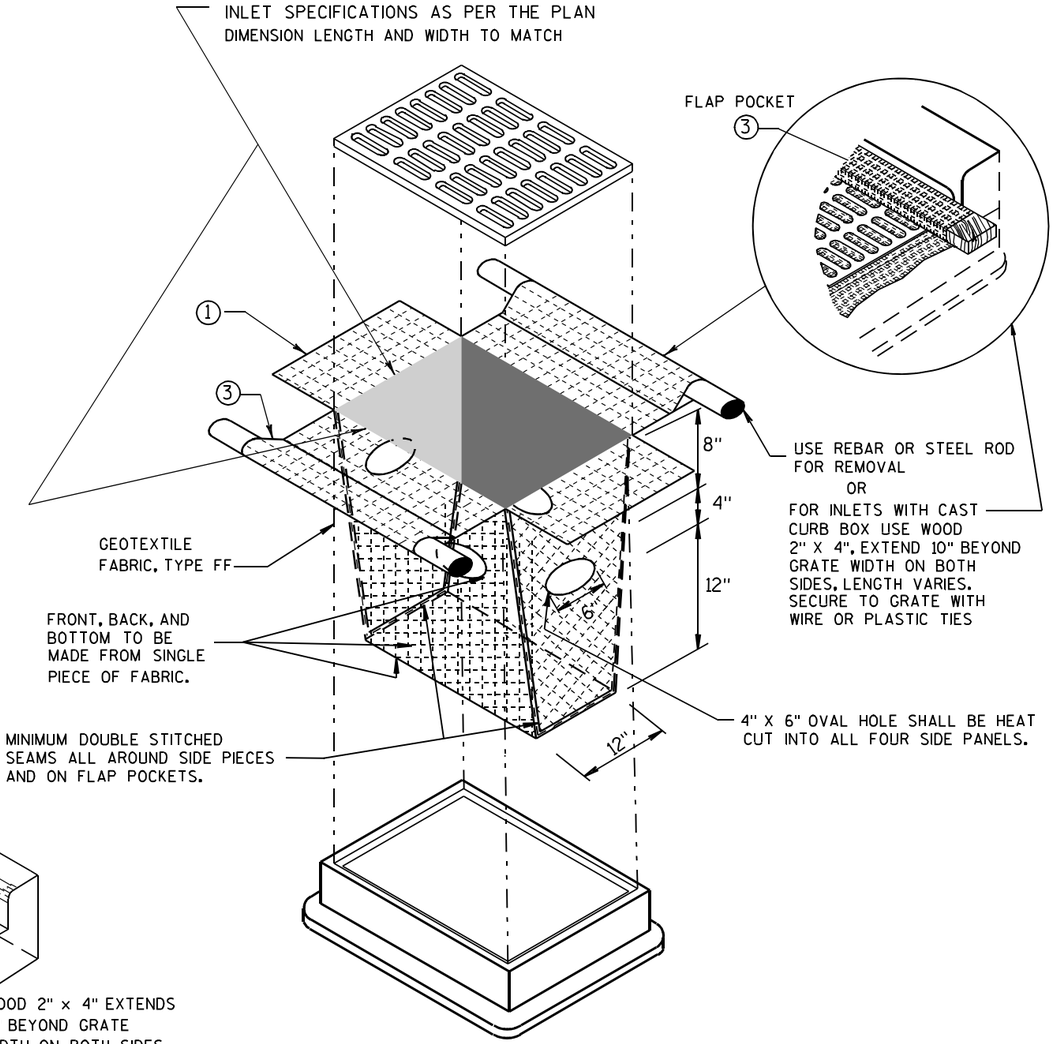


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

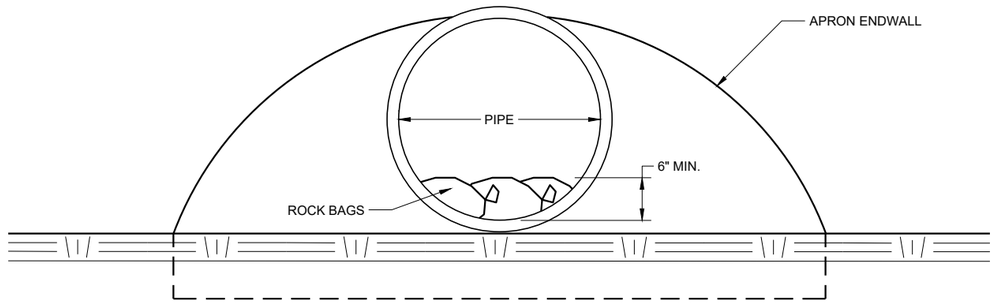
FHWA

6

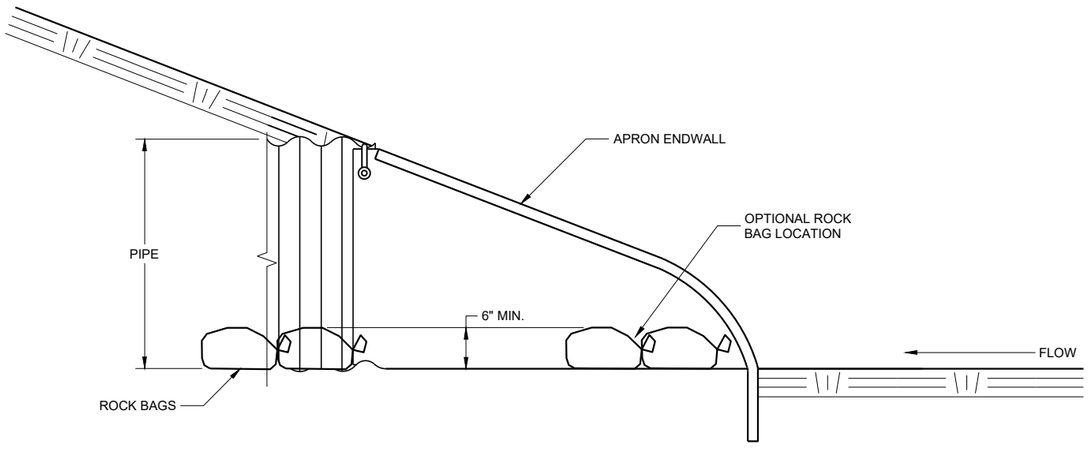
S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Daniel Schave — EROSION CONTROL ENGI
FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

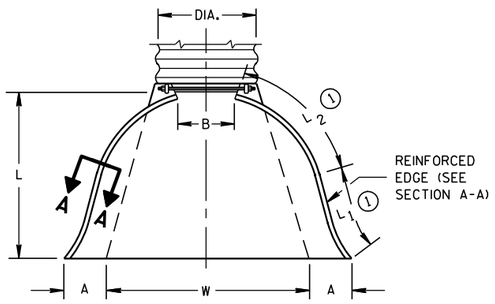
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

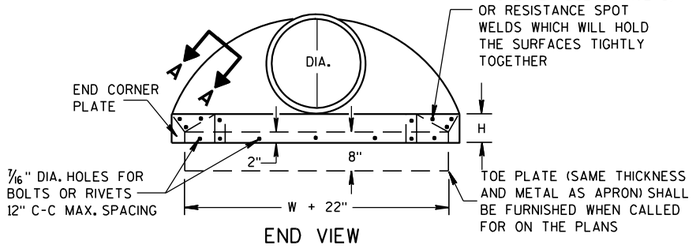
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

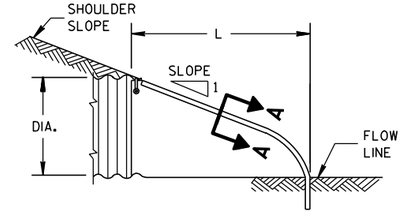
*MINIMUM
**MAXIMUM



PLAN VIEW

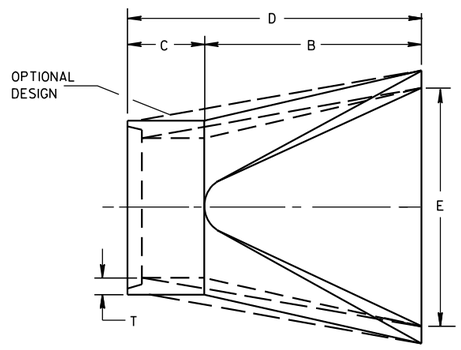


END VIEW

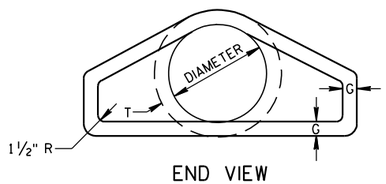


SIDE ELEVATION

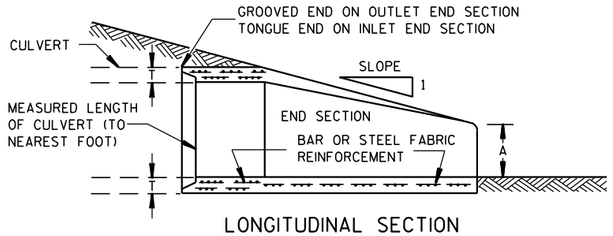
METAL ENDWALLS



PLAN

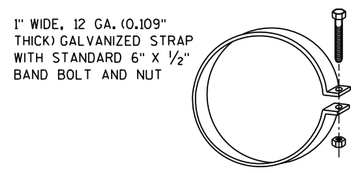


END VIEW



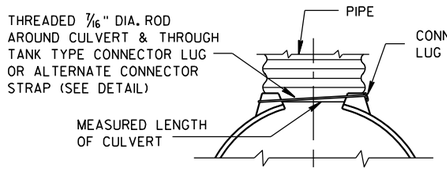
LONGITUDINAL SECTION

CONCRETE ENDWALLS

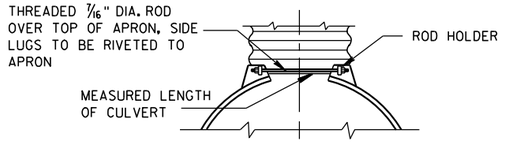


ALTERNATE FOR TYPE 1 CONNECTION

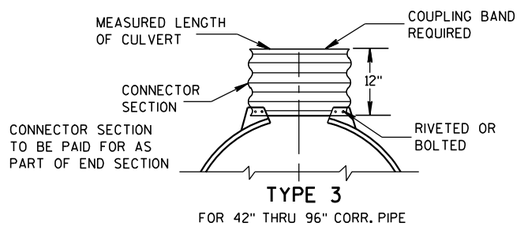
END SECTION CONNECTOR STRAP



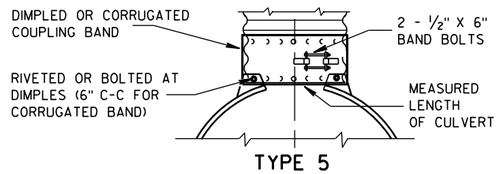
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

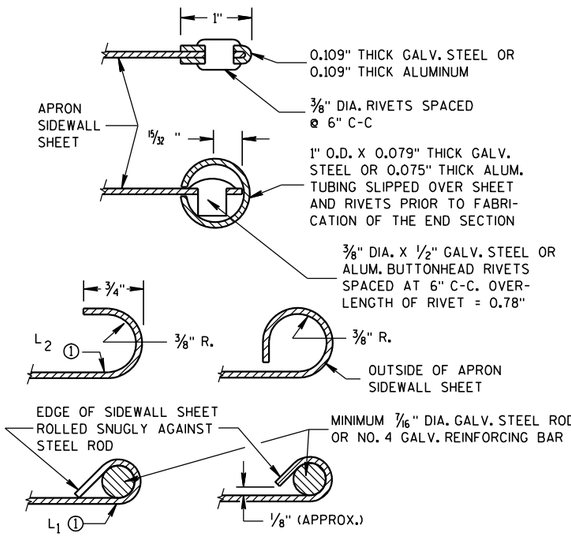
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA 221

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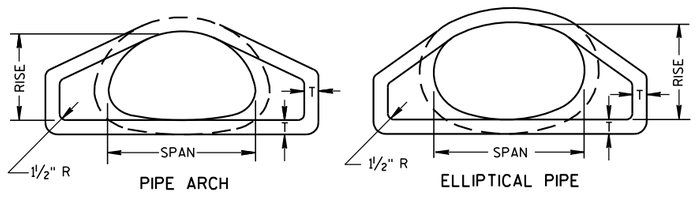
S.D.D. 8 F 1-11



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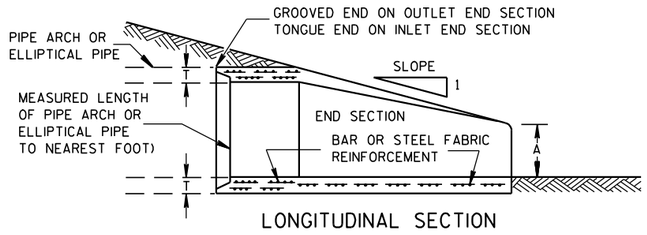
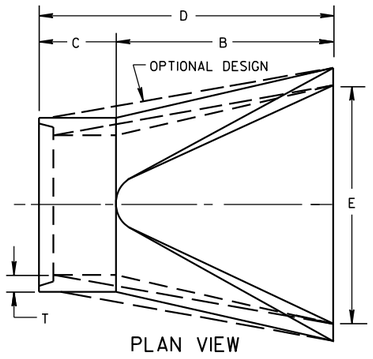
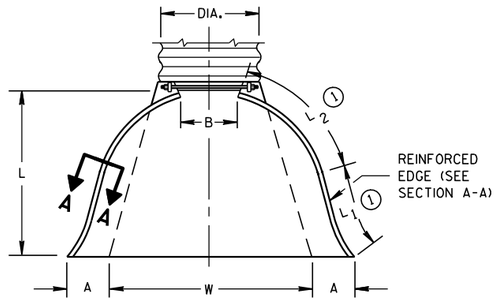


LONGITUDINAL SECTION

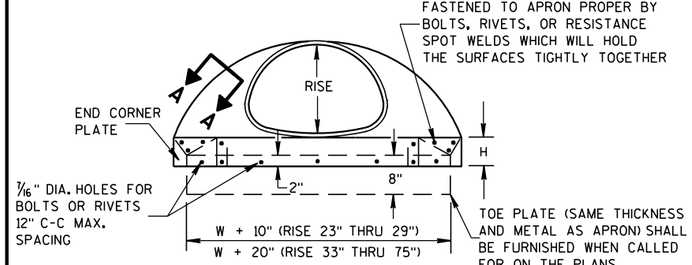


PLAN VIEW

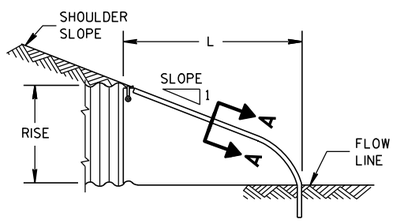
CONCRETE ENDWALLS



PLAN VIEW

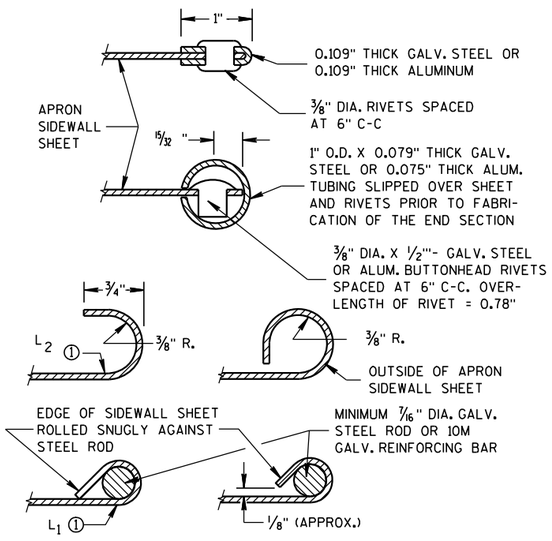


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

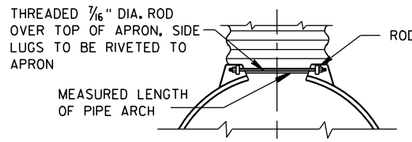
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

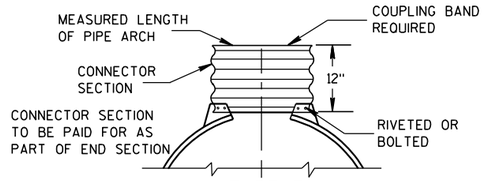
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



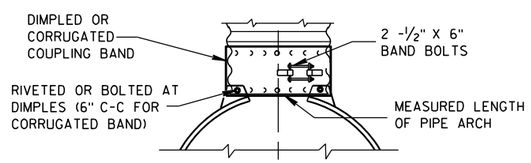
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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S.D.D. 8 F 2-1

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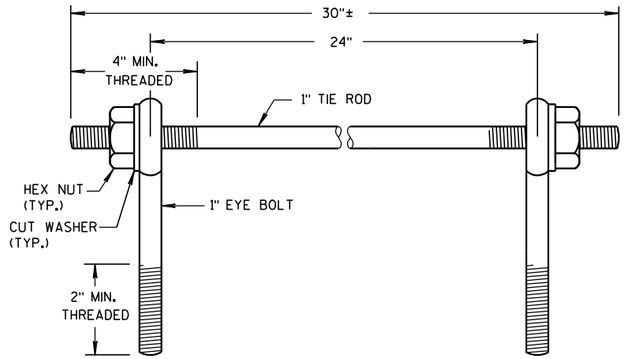
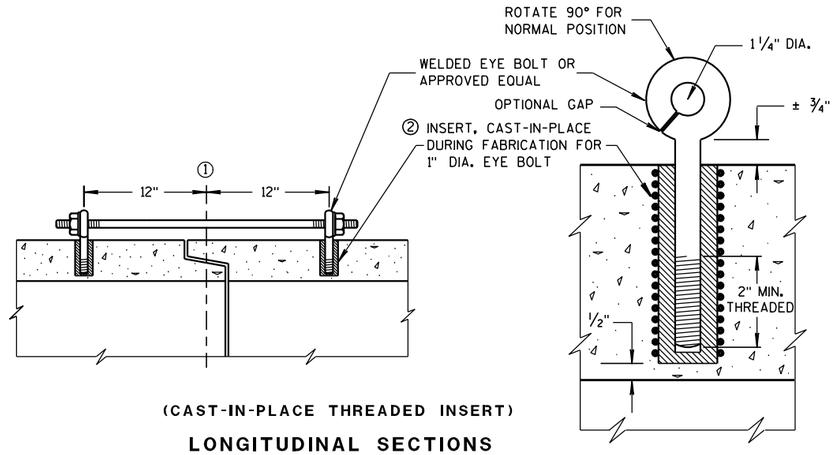
S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

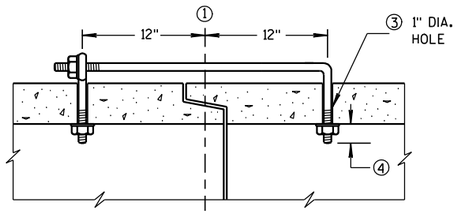
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

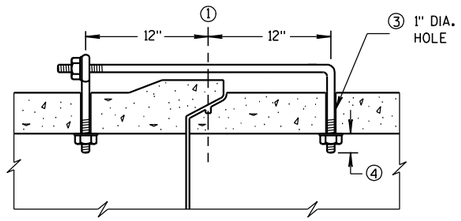
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

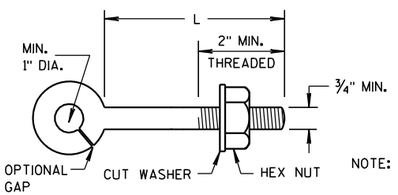


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

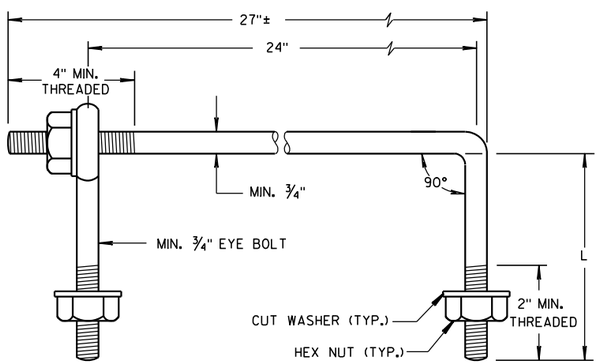
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

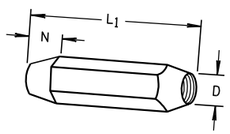
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



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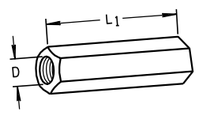
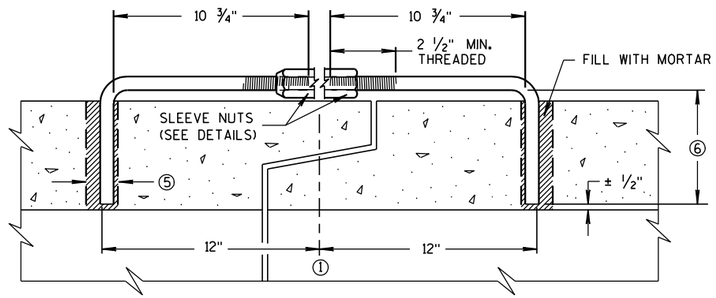


PLAIN

RIGHT AND LEFT THREADS

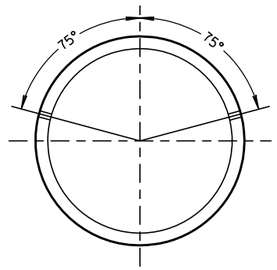
SLEEVE NUTS



LONGITUDINAL SECTION

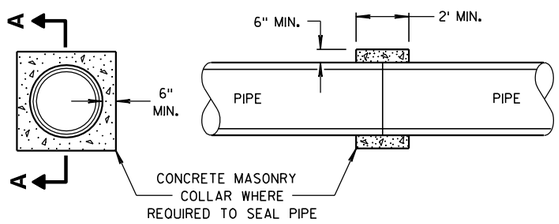
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

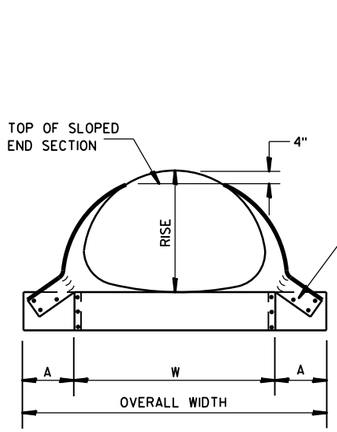
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

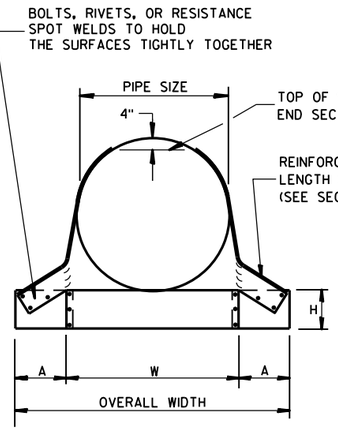
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
223
FHWA

6

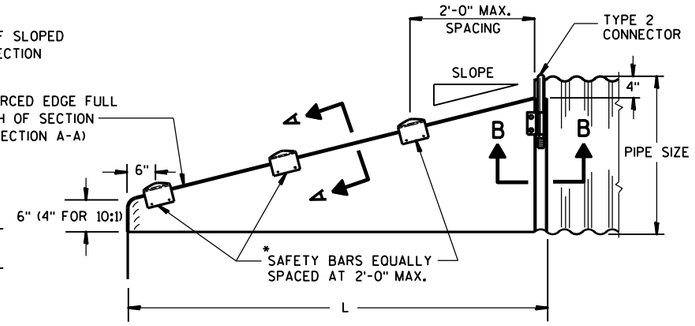
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

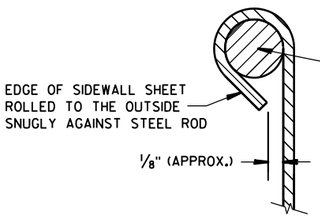
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS

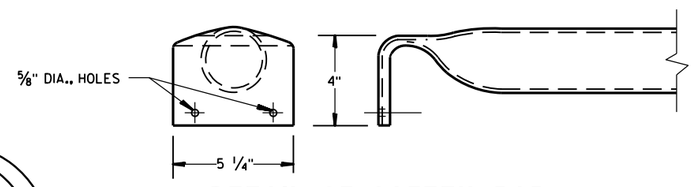
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

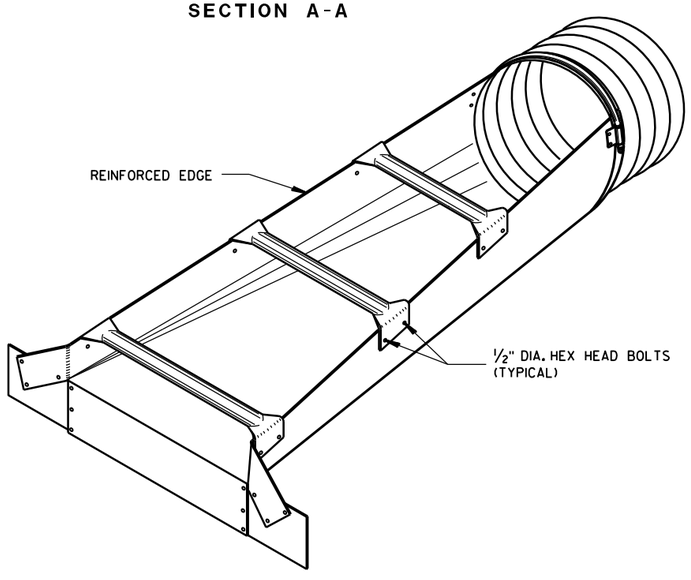


DETAIL OF SAFETY BAR

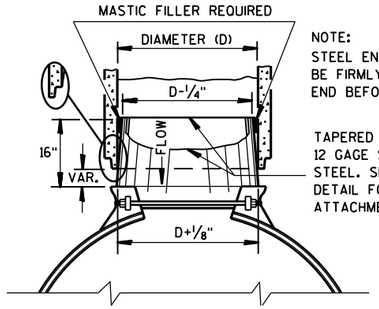
STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



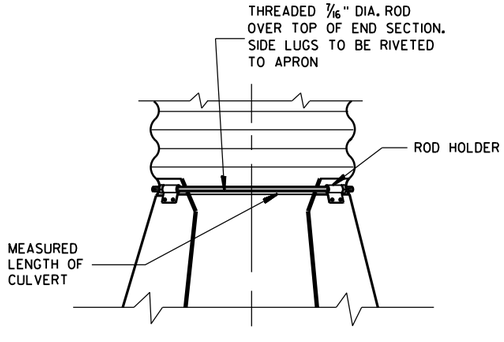
ISOMETRIC VIEW



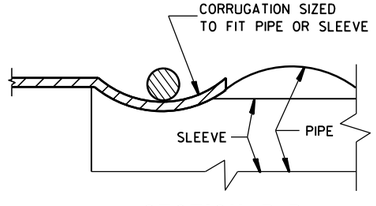
NOTE:
STEEL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING

TAPERED SLEEVE TO BE 12 GAGE SMOOTH GALVANIZED STEEL. SEE SECTION B-B DETAIL FOR END SECTION ATTACHMENT.

STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

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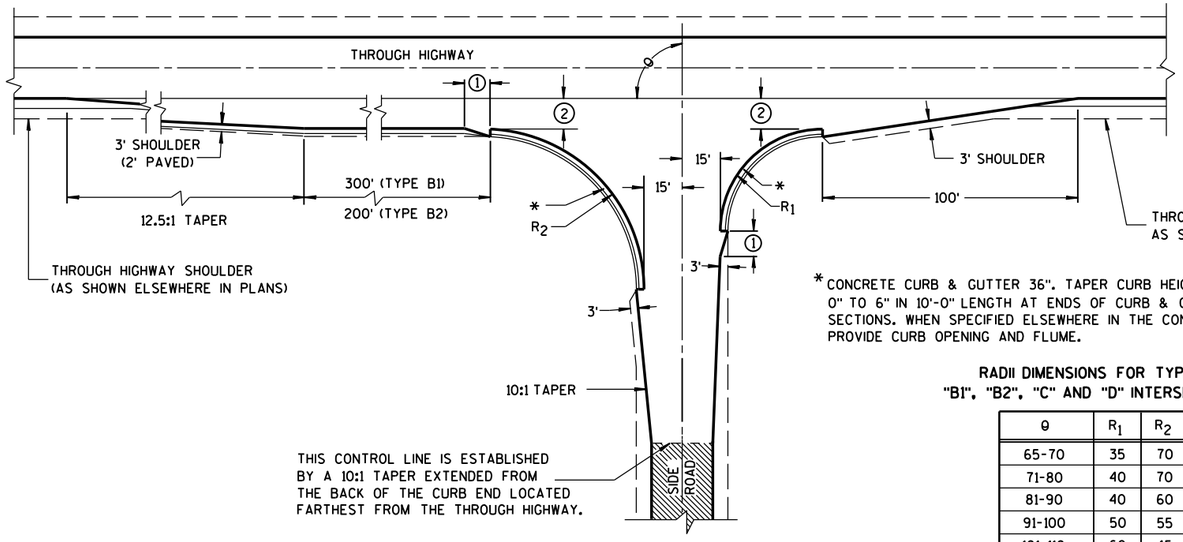
S.D.D. 8 F 7-5

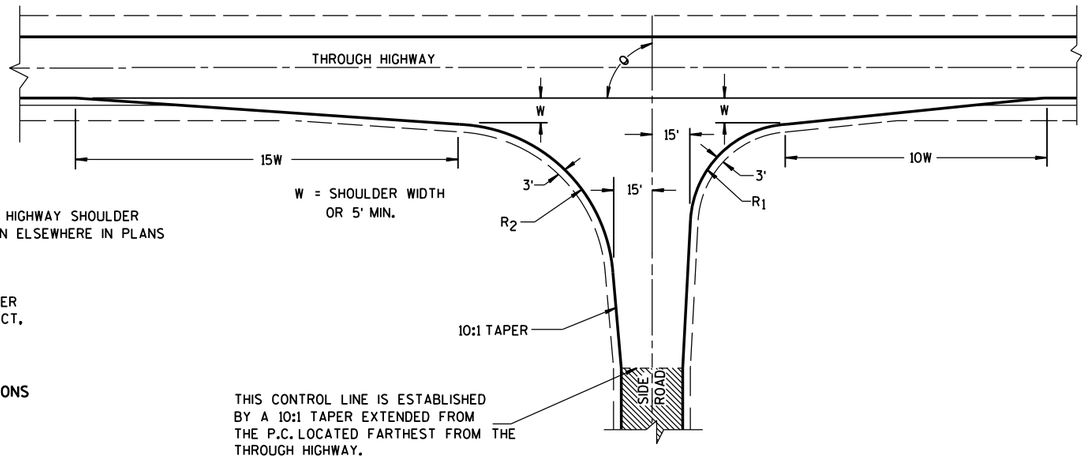


TYPE "B1" AND "B2"

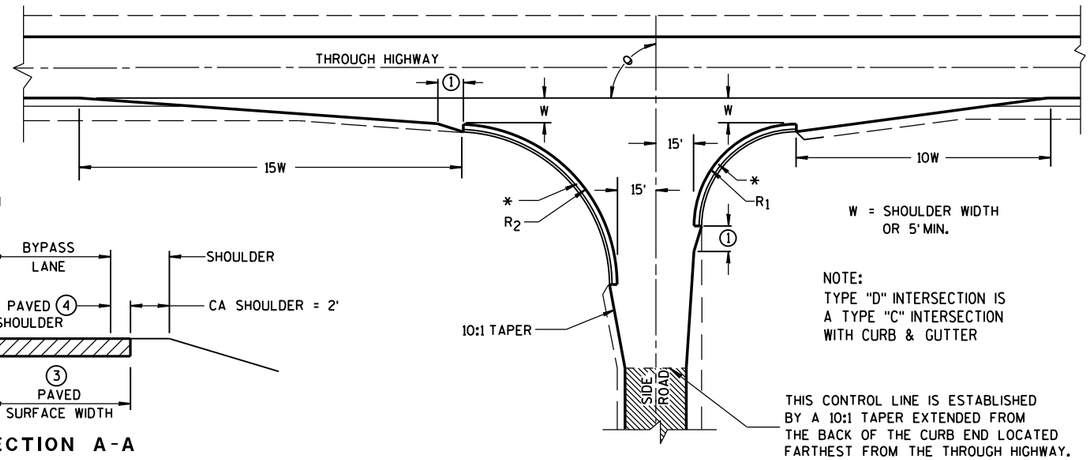
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

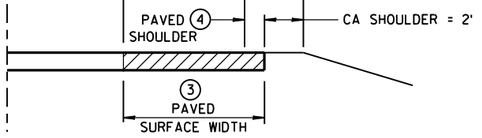
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

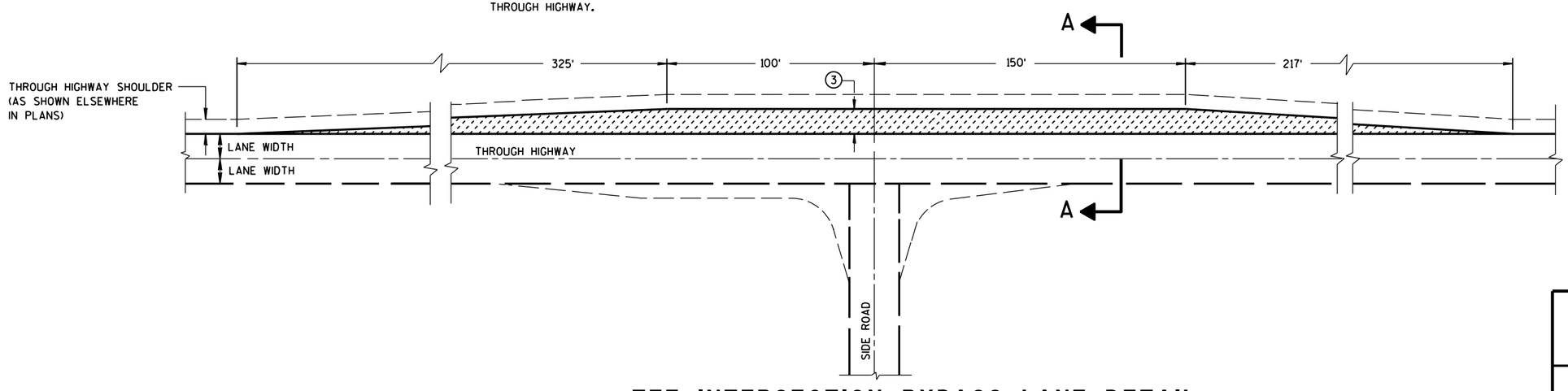
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)

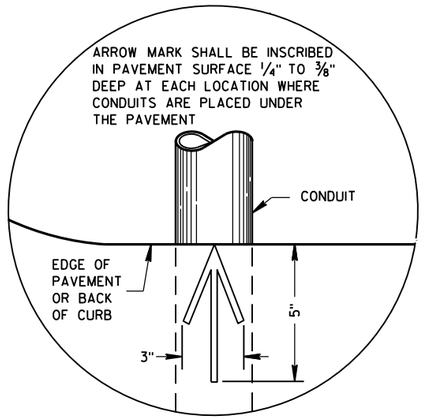


TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

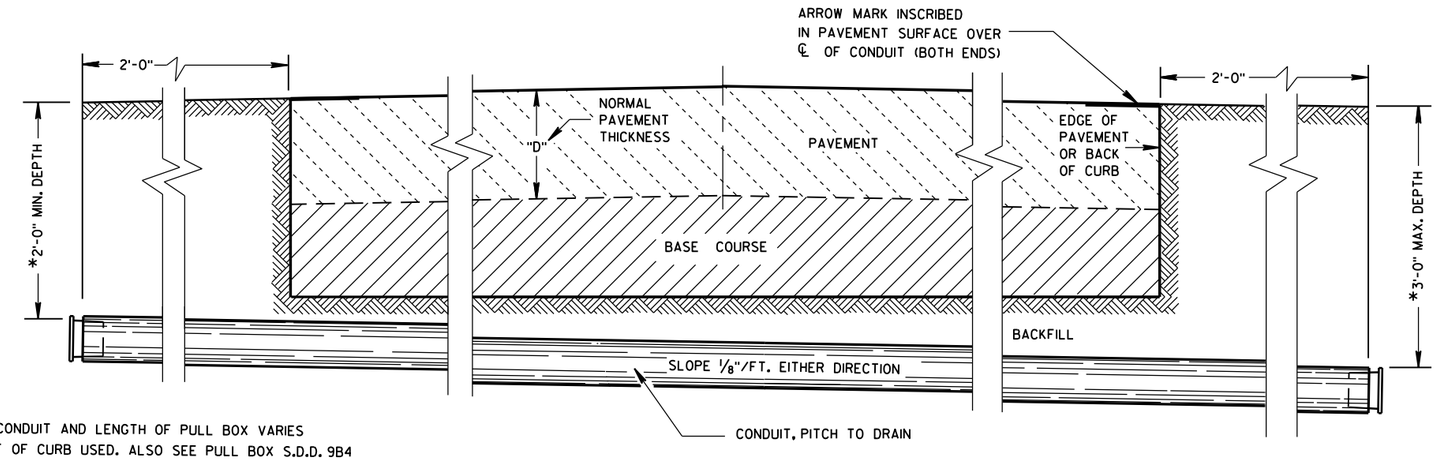
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 9 A 1-13a



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

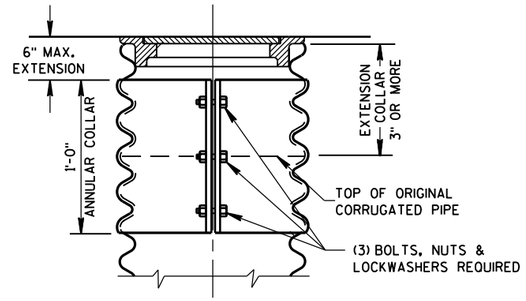
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

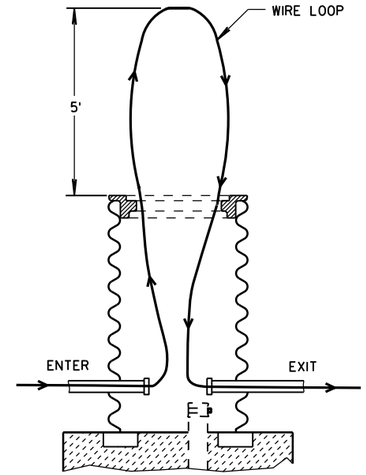
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

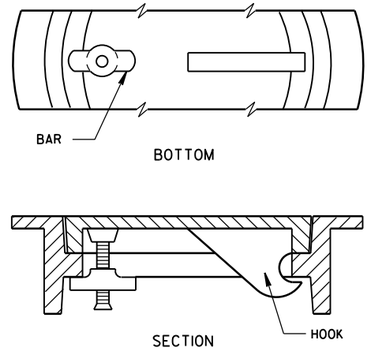
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

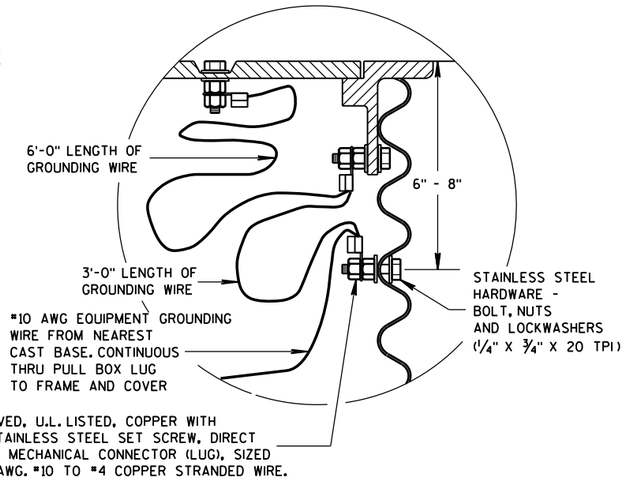


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

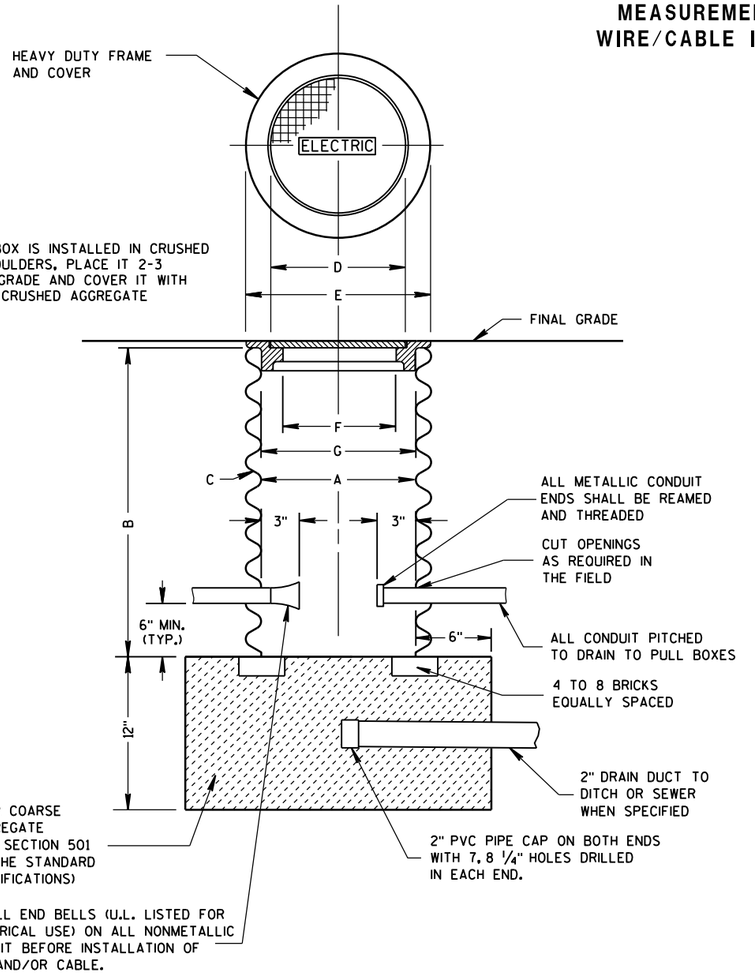


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

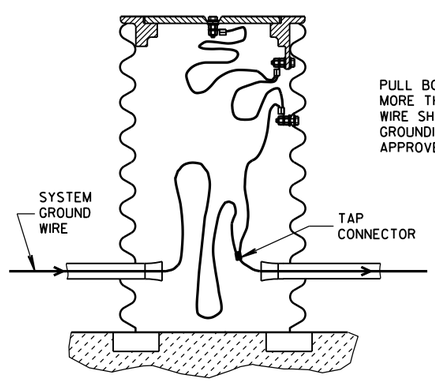
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

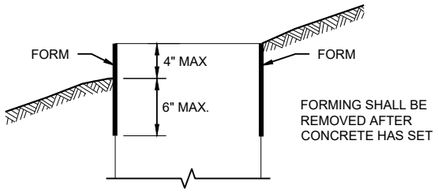
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 227
FHWA

6

S.D.D. 9 B 4-11

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

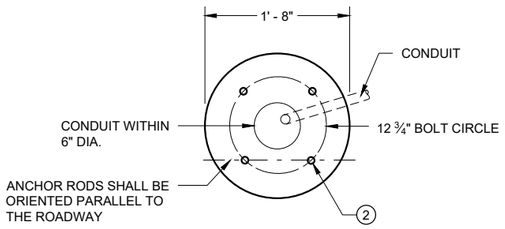
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

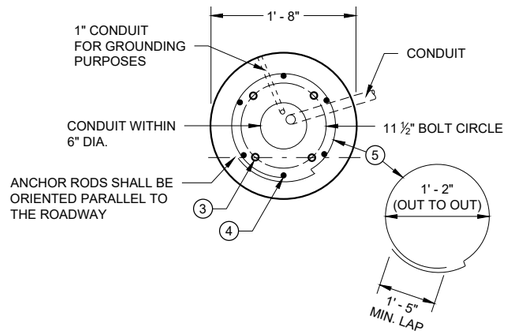
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

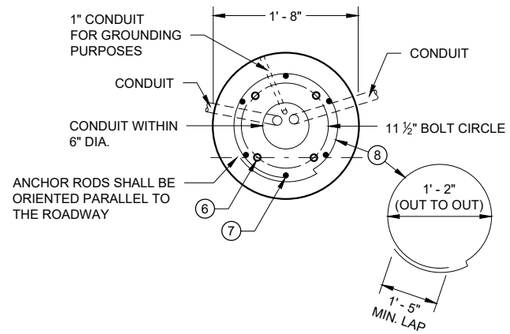
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

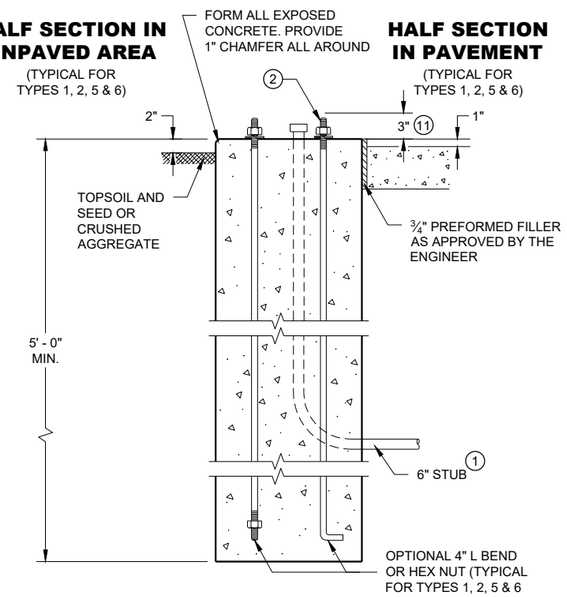
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

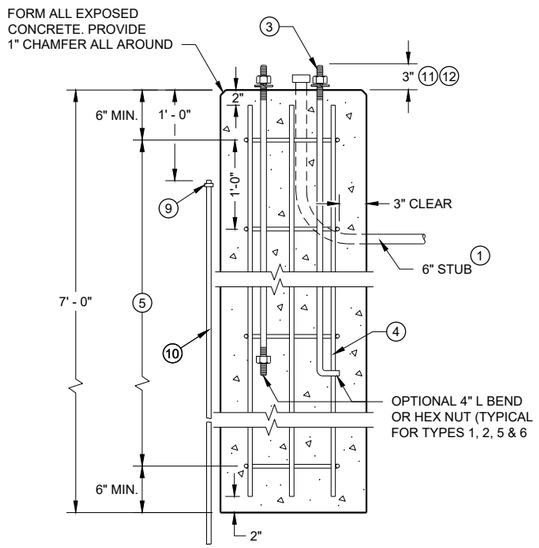
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



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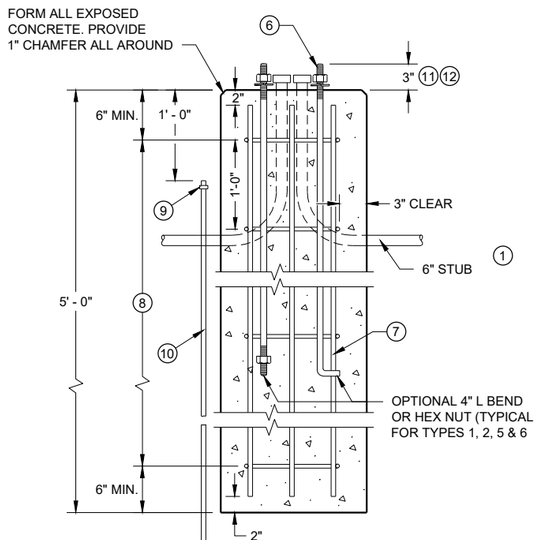

TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
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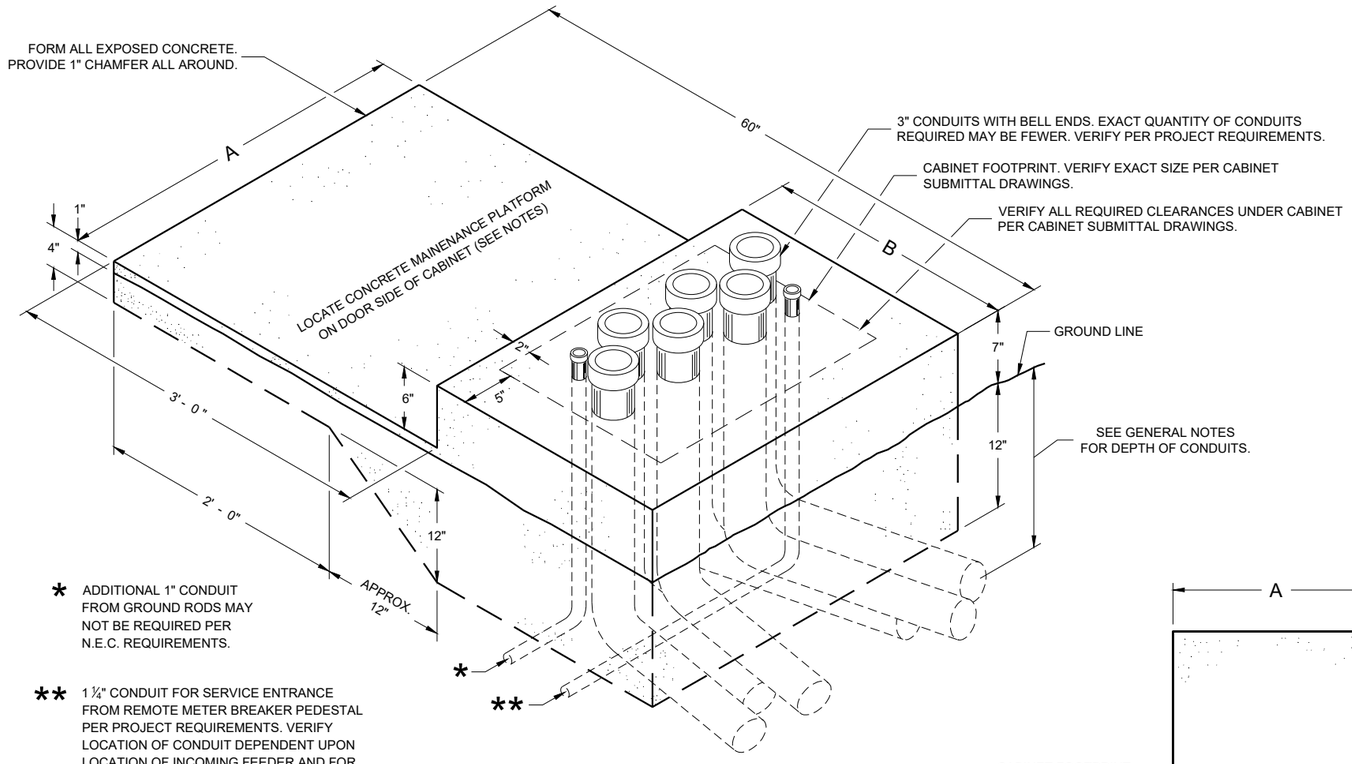


* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

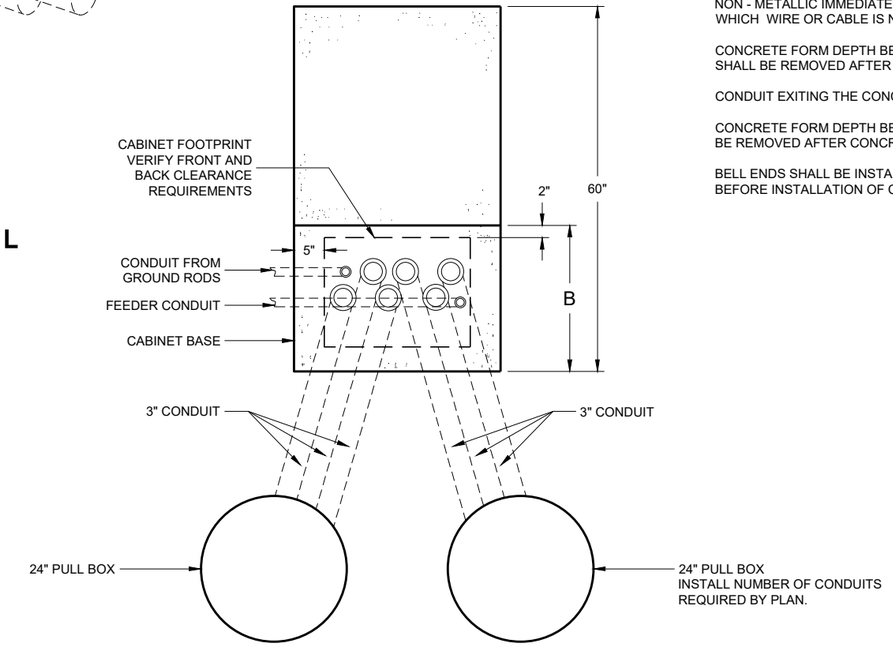
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
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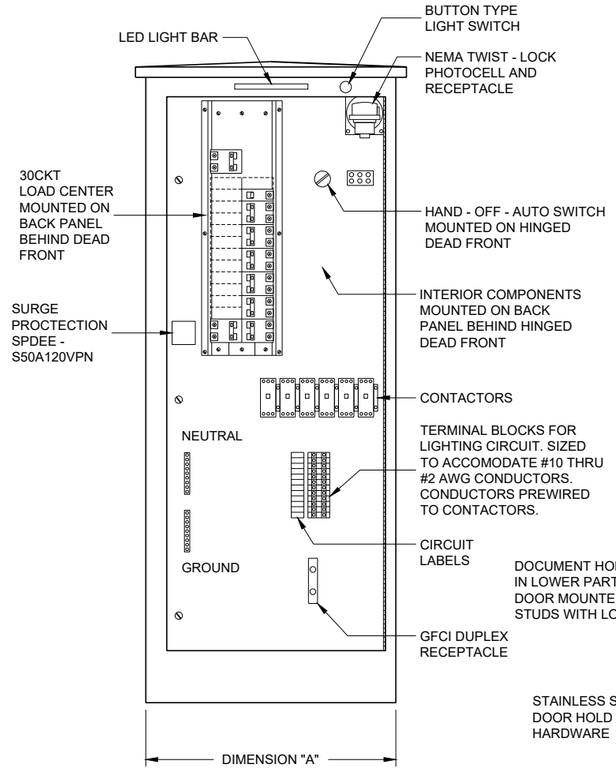
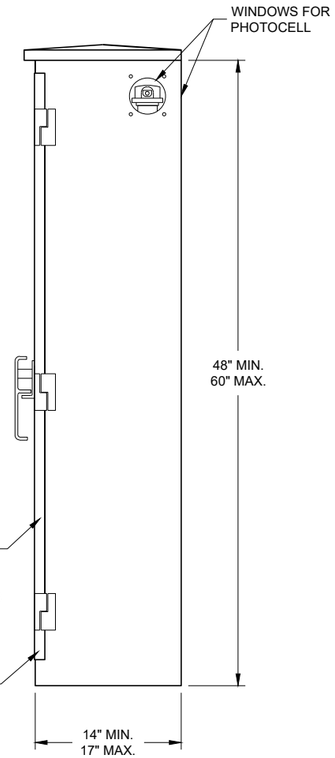
FRONT INTERIOR ELEVATION



SIDE VIEW



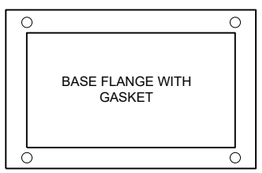
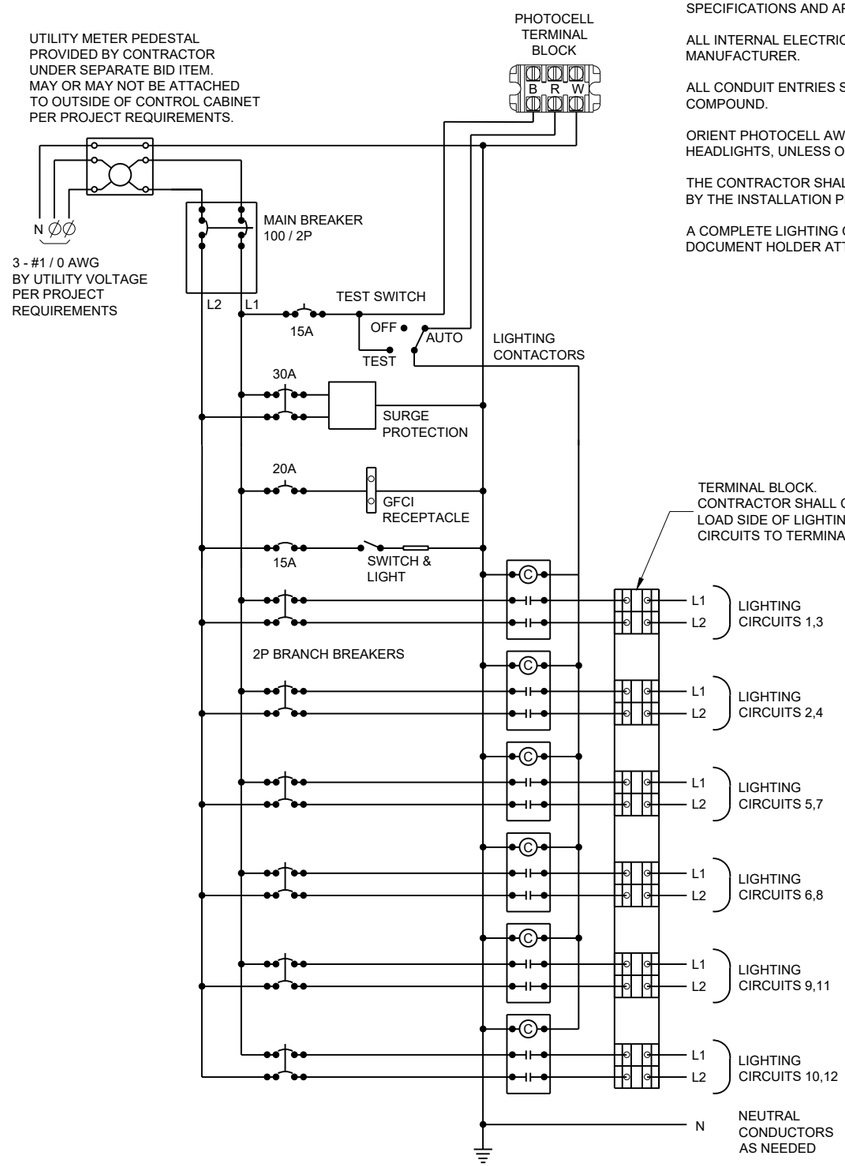


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

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

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET
120 / 240 VOLT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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November 2018
DATE

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STATE ELECTRICAL ENGI 230

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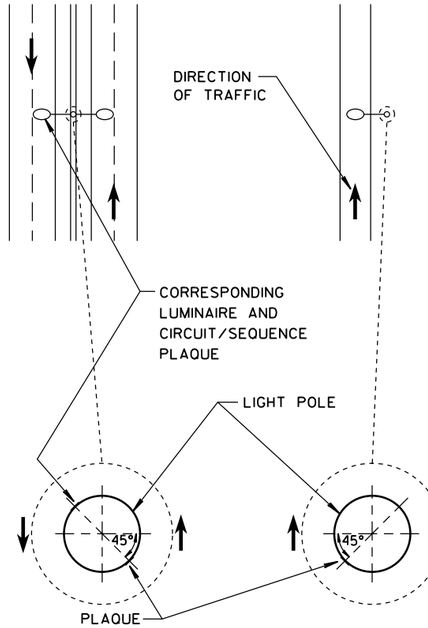


MEDIAN POLE SINGLE ARM POLE

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

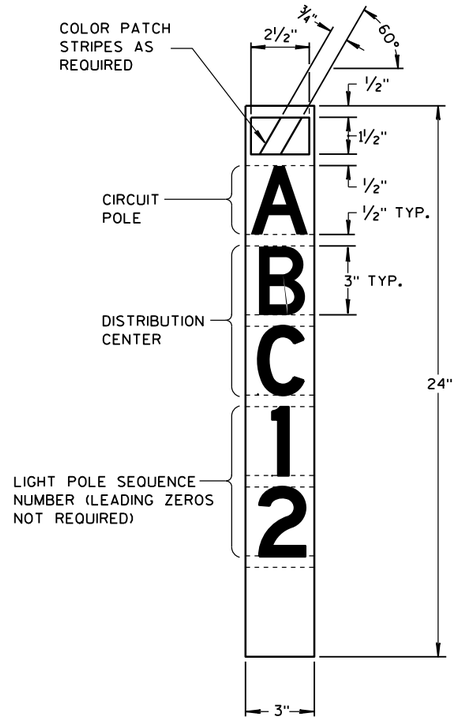
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS AND LED LUMINAIRES

HPS	LED	COLOR PATCH CODE
1000 WATT		NO PATCH
400 WATT	CATEGORY D	ORANGE
310 WATT		BLUE
250 WATT	CATEGORY C	ORANGE WITH WHITE STRIPE
200 WATT		RED
150 WATT	CATEGORY B	GREEN
100 WATT	CATEGORY A	BROWN
70 WATT	CATEGORY UDL	BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

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IDENTIFICATION PLAQUES
LIGHT POLES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

S.D.D. 10 A 2-3

GENERAL NOTES

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

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SDD10A01.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

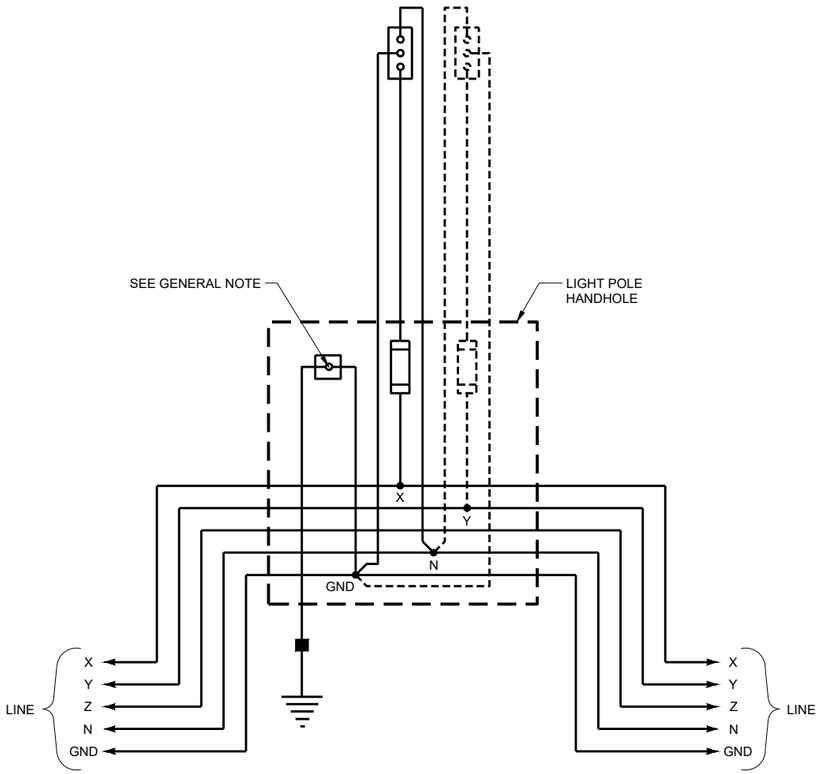
THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLD GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

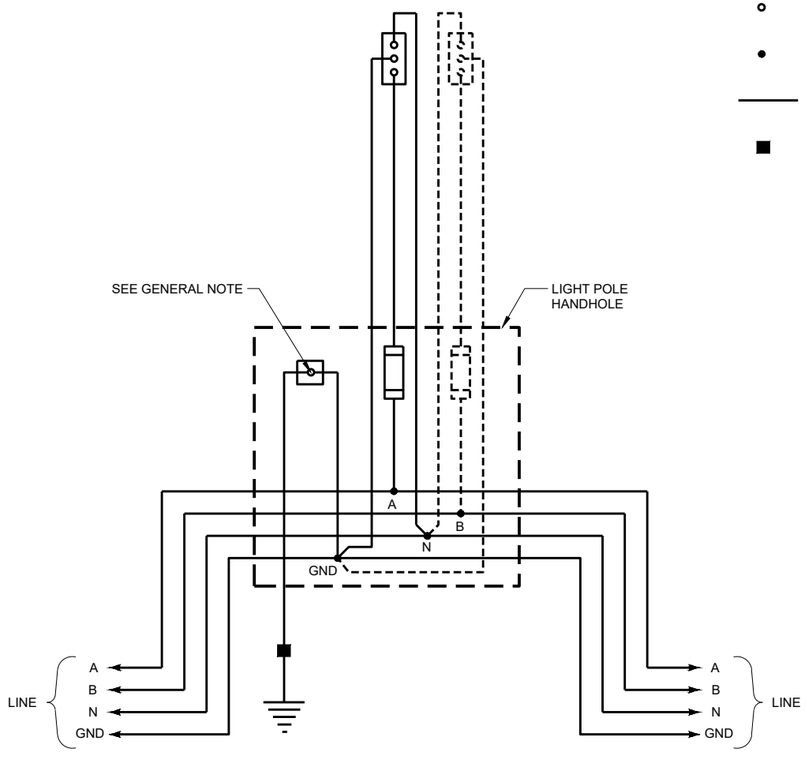
LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
ϕ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
3 - ϕ 208Y / 120VAC OR 480Y / 277VAC 4 WIRE



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
1 - ϕ 120 / 240VAC OR 240 / 480VAC 3 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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GENERAL NOTES

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

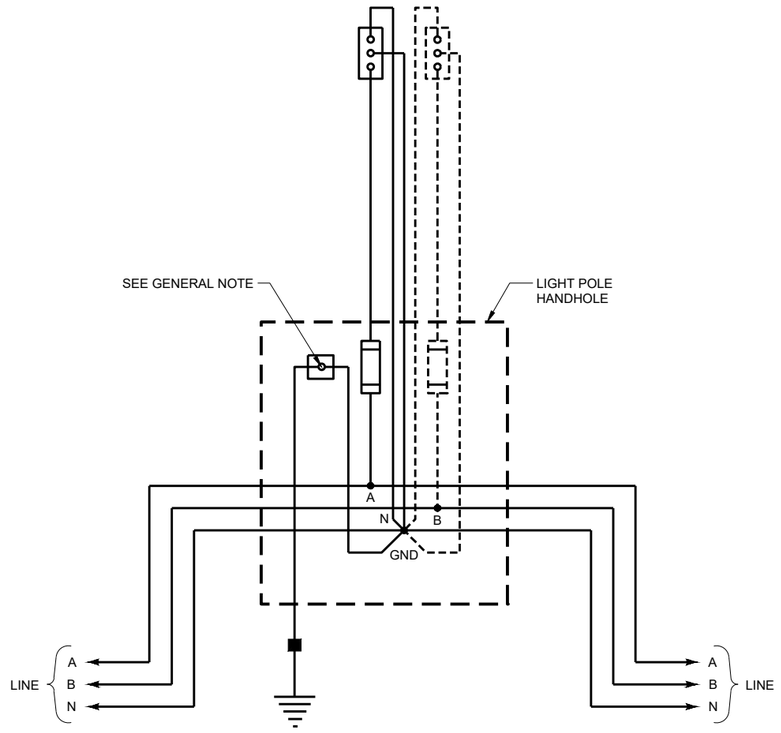
USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SDD10A01.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLD GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.



TYPICAL WIRING DIAGRAM

GROUNDED NEUTRAL SYSTEM
1 - ϕ 240 / 480VAC 3 WIRE OR 480VAC 2 WIRE

LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
ϕ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
GROUNDED NEUTRAL SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

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SDD 10A06 - 03

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SDD 10A06 - 03

GENERAL NOTES

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

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SDD10A01.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

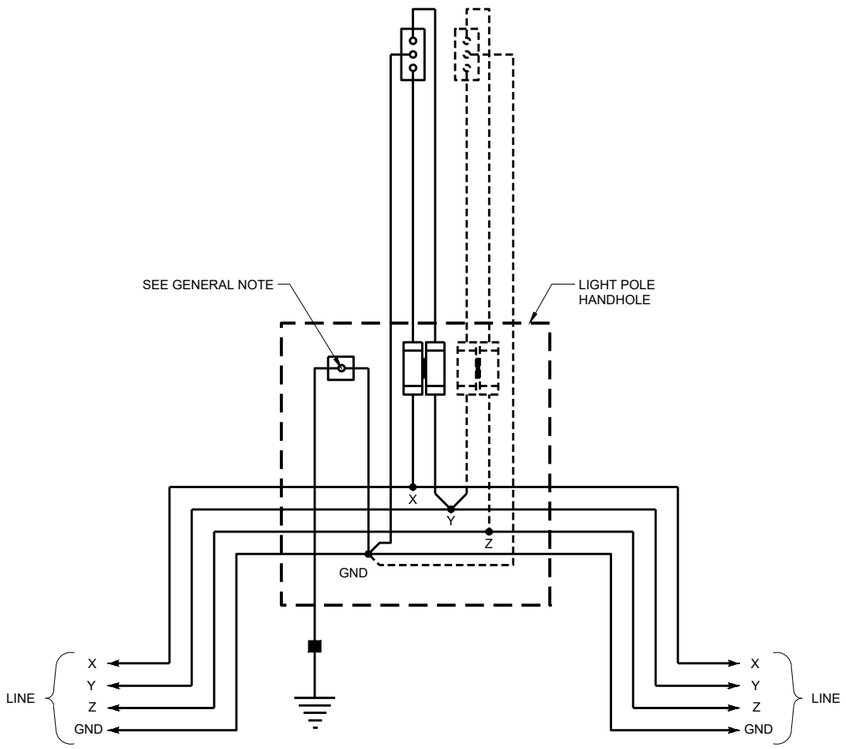
THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLD GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

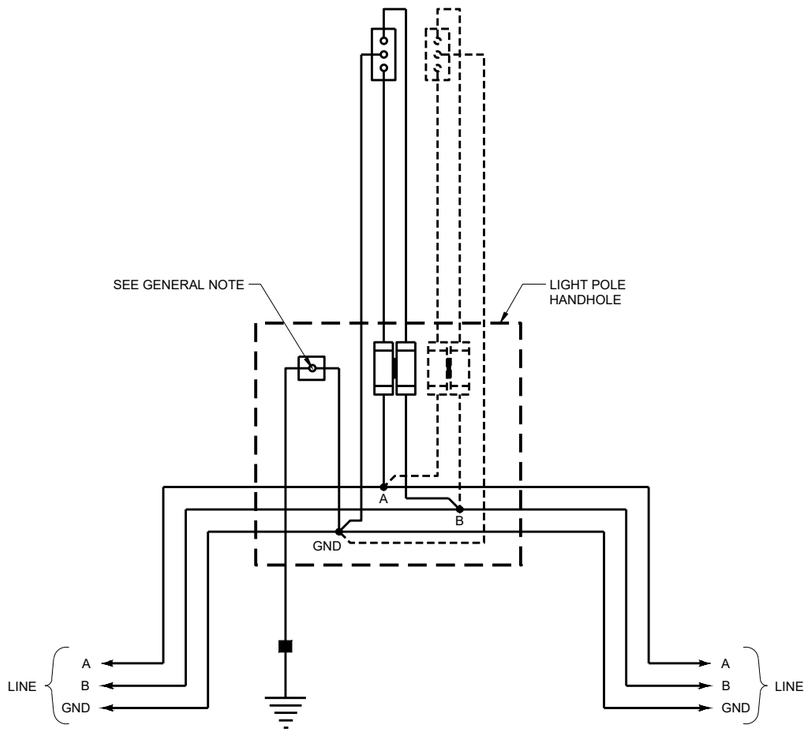
LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
ϕ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	TWO-POLE (2P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM

PHASE - TO - PHASE DELTA SYSTEM
3 - ϕ 480VAC 3 WIRE



TYPICAL WIRING DIAGRAM

UNGROUNDED SYSTEM
1 - ϕ 120 - 120VAC 2 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
PHASE - TO - PHASE SYSTEMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

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SDD 10A07 - 03

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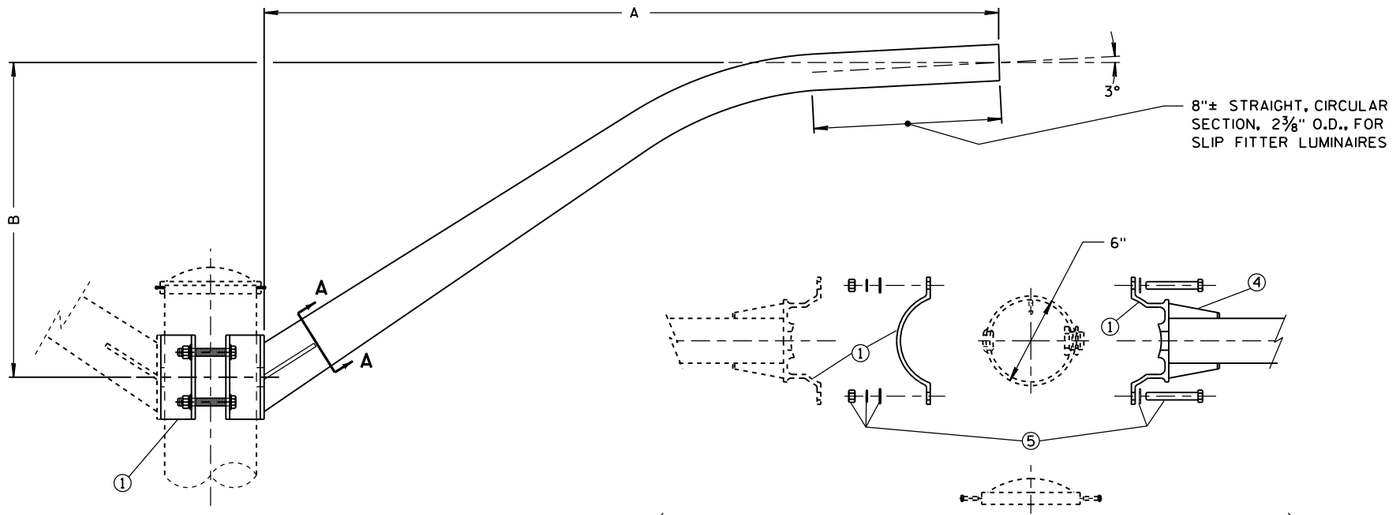
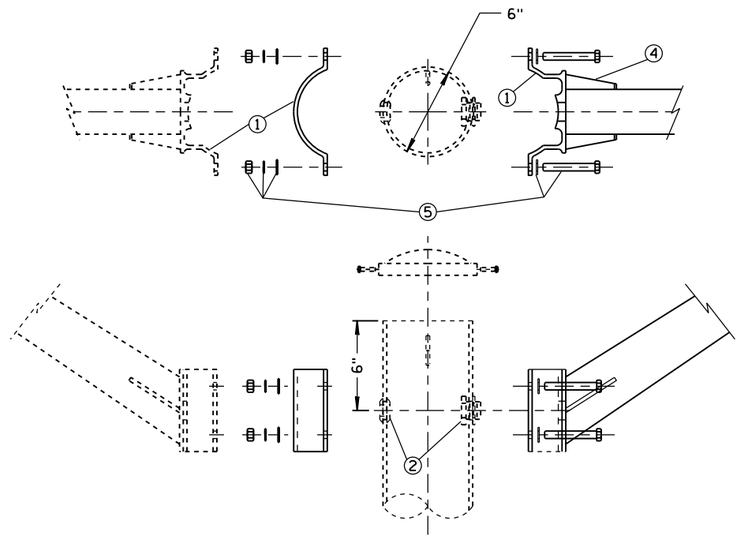
SDD 10A07 - 03



LUMINAIRE ARMS, SINGLE MEMBER, 6-INCH CLAMP - FOR POLES, TYPE 7, A OR E

VARIOUS LENGTHS (SEE TABLE)



CLAMP ASSEMBLY

SINGLE MEMBER CLAMP SHOWN

TYPE	DIM. A NOMINAL ARM LENGTH (FT)	DIM. B APPROX. RISE (FT)
SINGLE MEMBER	4.0	2.0
SINGLE MEMBER	8.0	3.0
SINGLE MEMBER	10.0	3.0
SINGLE MEMBER	15.0	3.0

GENERAL NOTES

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

ARMS AND CLAMP EXTRUSIONS SHALL BE CONSTRUCTED OF NATURAL FINISH 6063-T6 ALUMINUM.

HEAT TREATMENT OF WELDS IN STRUCTURAL AREAS IS REQUIRED.

ALL THREADED FASTENER COMPONENTS SHALL BE STAINLESS STEEL. NUTS SHALL BE HEX NUTS. BOLTS SHALL BE HEX HEAD. ALL THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

LUMINAIRE LOADING FOR DESIGN CALCULATION SHALL BE 50 LBS. IN WEIGHT AND 1.5 SQ. FT. FOR E.P.A..

① CLAMPS SHALL BE EXTRUDED ALUMINUM.

② RACE WAY: 1 3/8" FIELD DRILLED HOLE WITH 1" CHASE NIPPLE AND NUT (OR NEOPRENE GROMMET) PER EACH REQUIRED LUMINAIRE ARM. PROVIDE 1 1/2" HOLE IN CLAMP EXTRUSION TO CONTINUE RACEWAY.

③ STIFFENER

④ GUSSETS REQUIRED.

⑤ CLAMP BOLT ASSEMBLY (BOLT - 1/2"-13 UNC, 2 EACH - FLAT WASHER, LOCK WASHER, NUT) - 4 EACH PER CLAMP.

LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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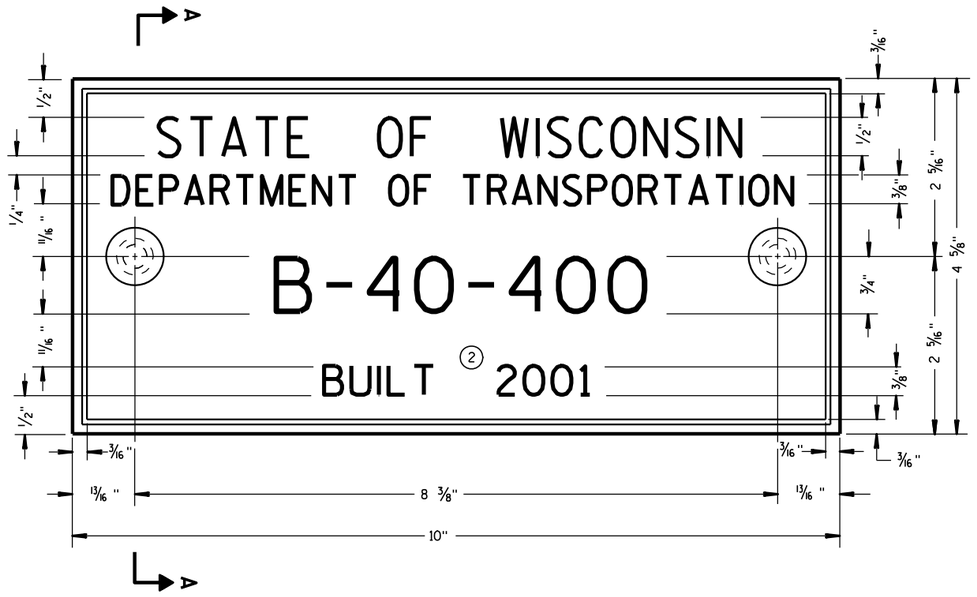
S.D.D. 10 A 18-5a



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

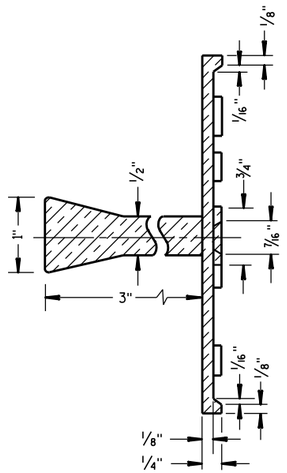
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

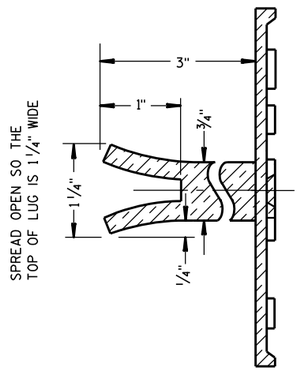
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

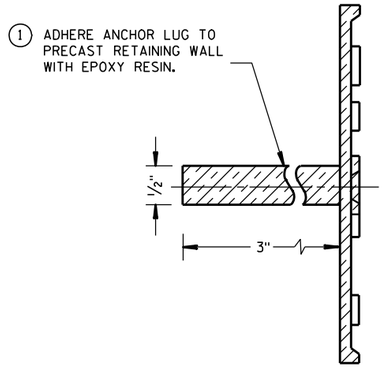
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
3/26/10 DATE	/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER
FHWA	

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S.D.D. 12 A 3-10

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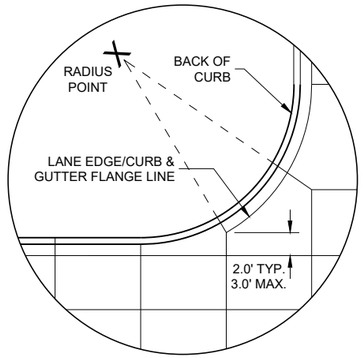
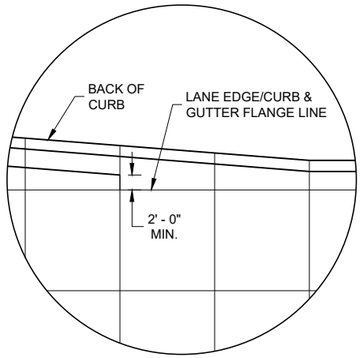
S.D.D. 12 A 3-10



DETAIL "A"



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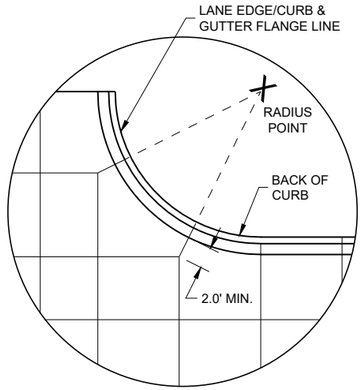

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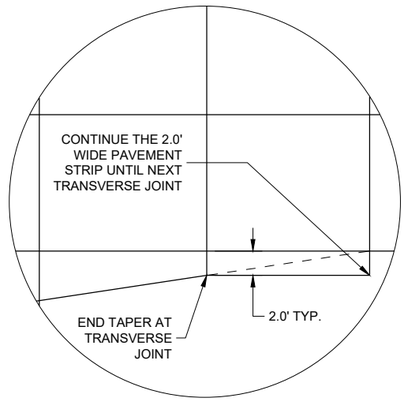


DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

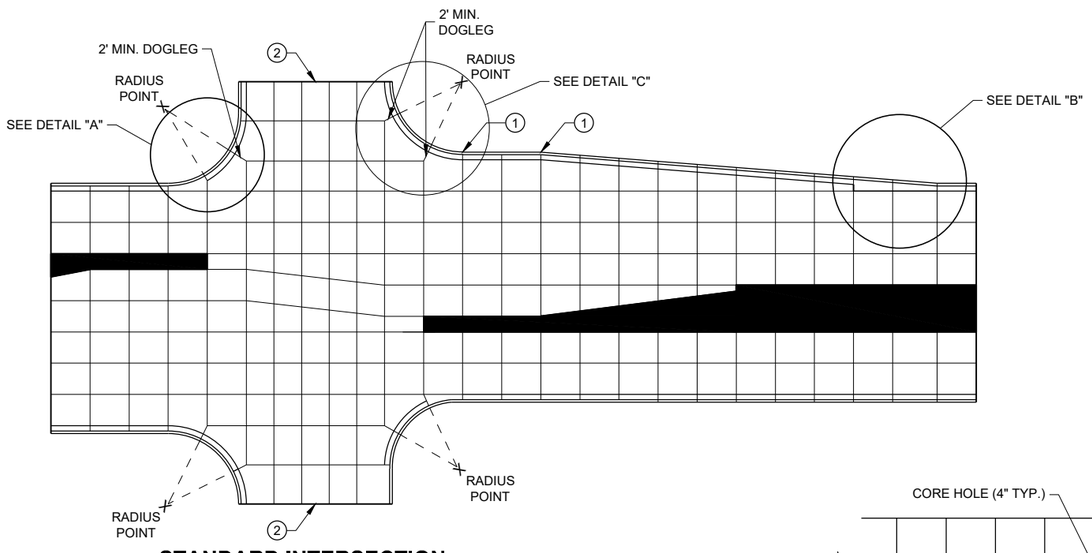
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

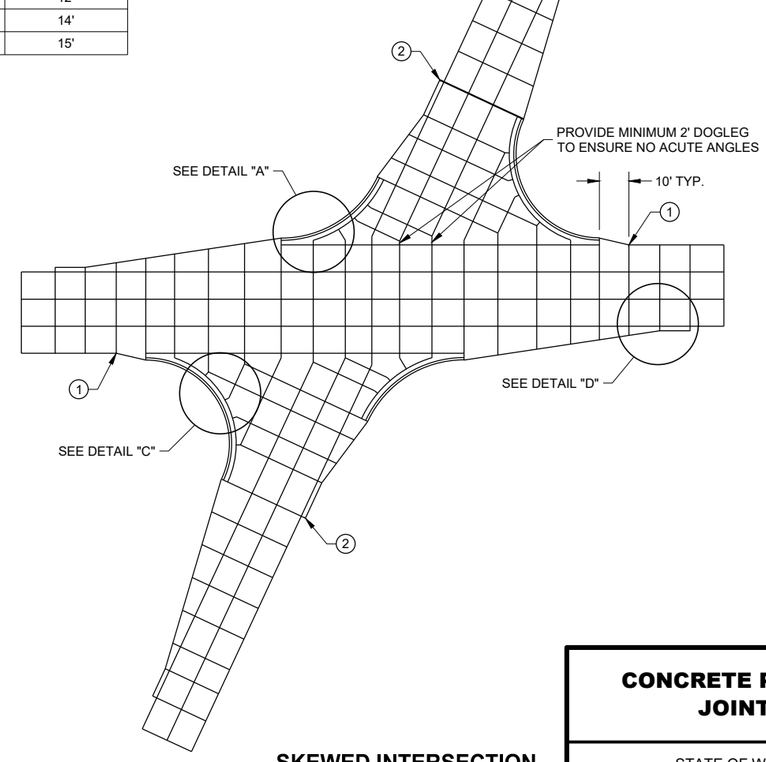
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



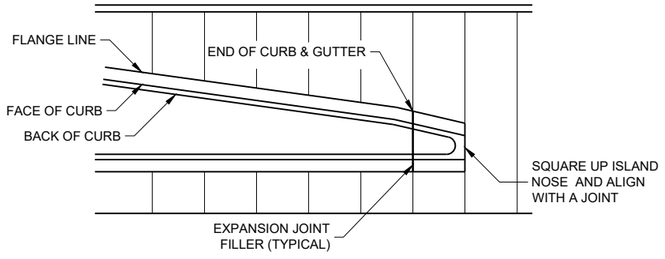
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

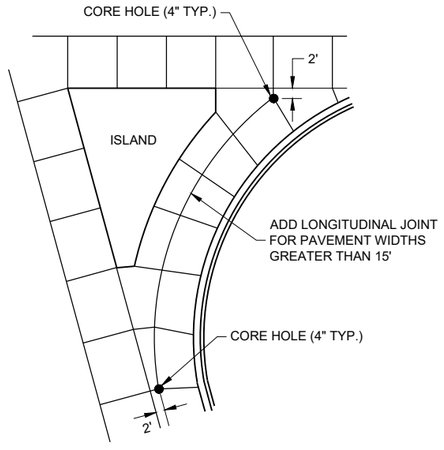
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 13C18 - 07a

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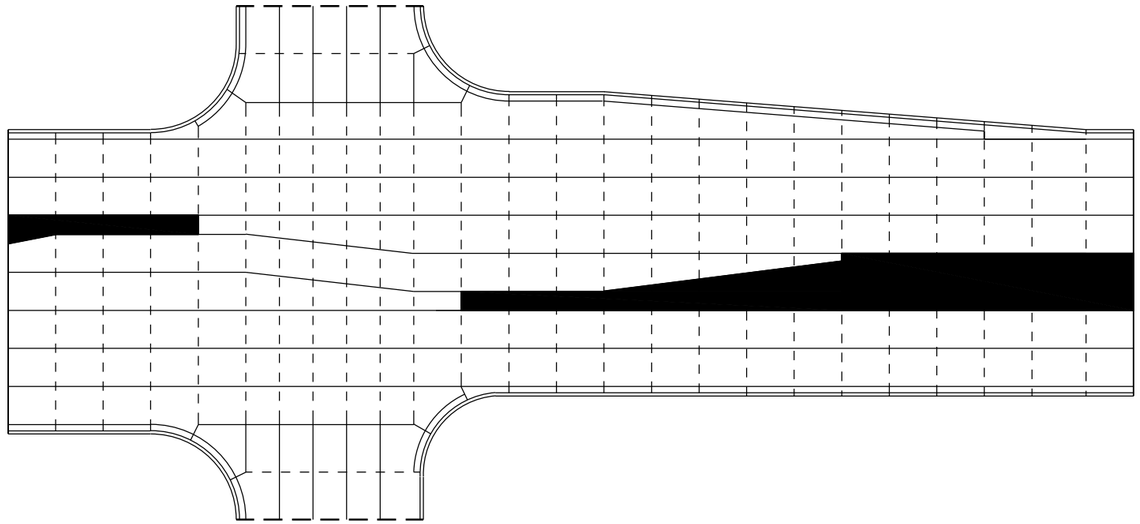
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

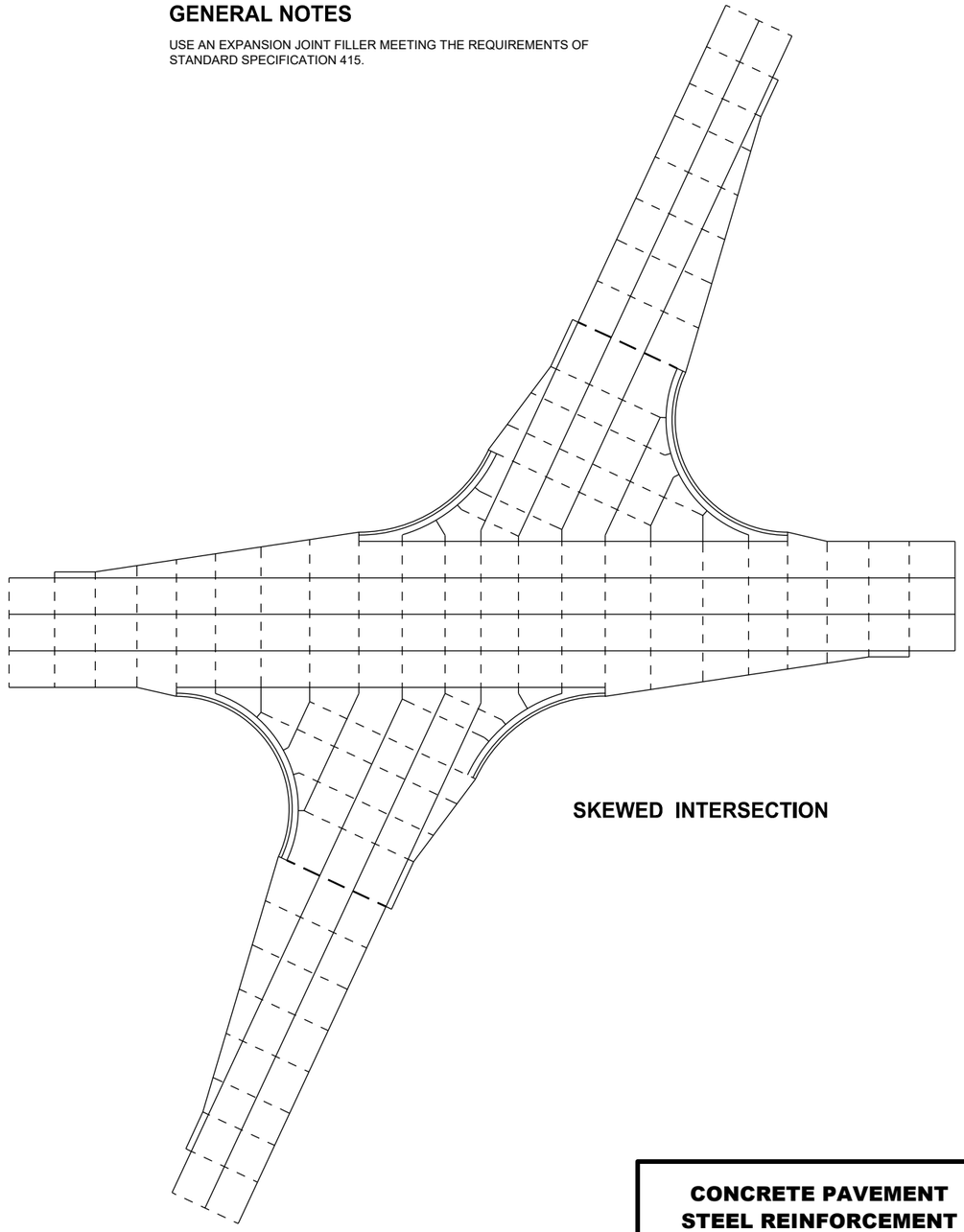
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

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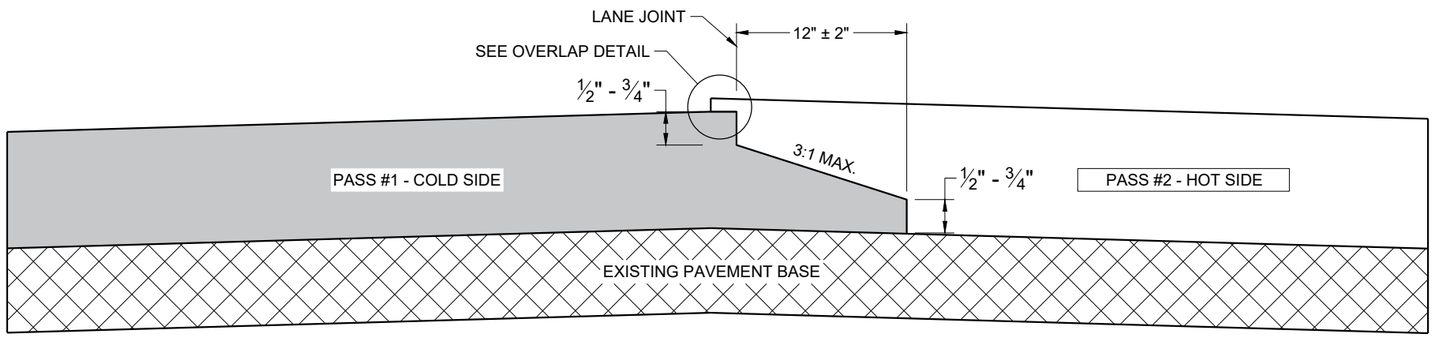
SDD 13C18 - 07b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

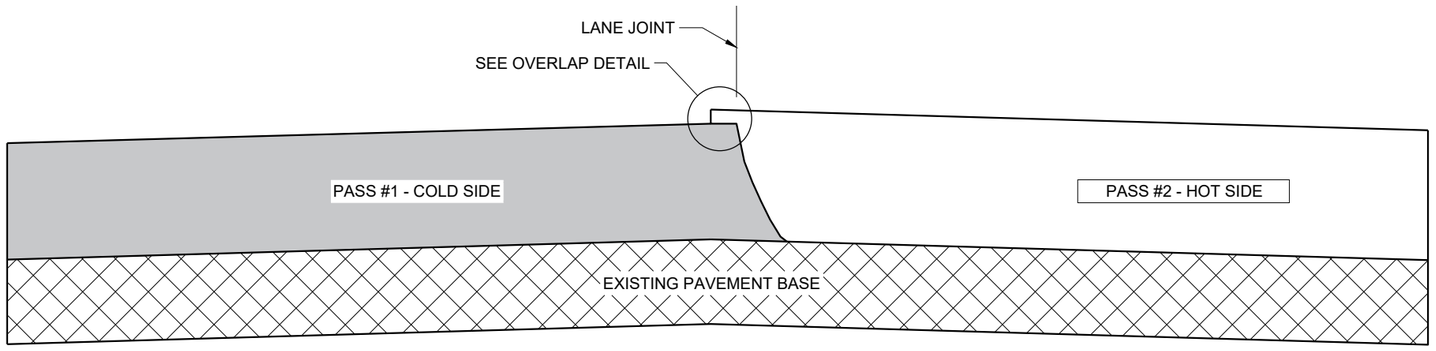
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

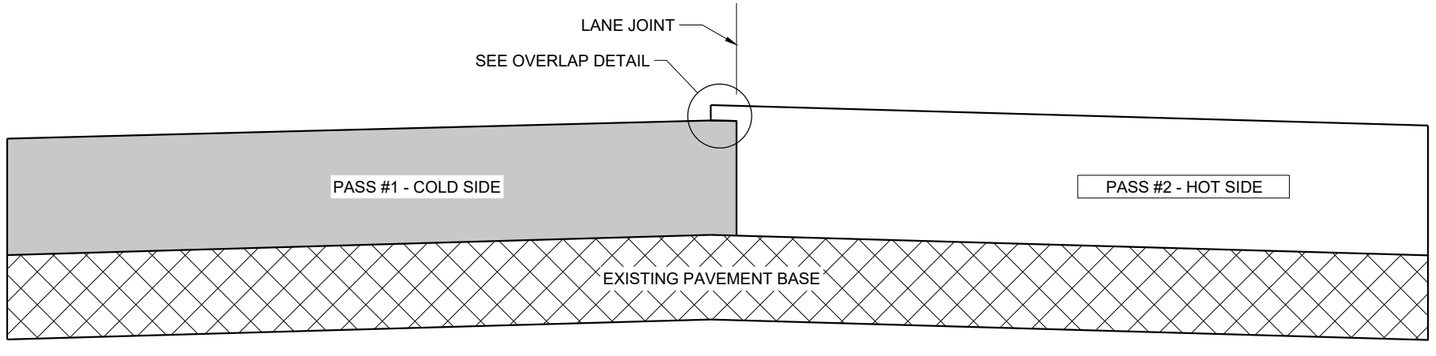
SDD 13C18 - 07b



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

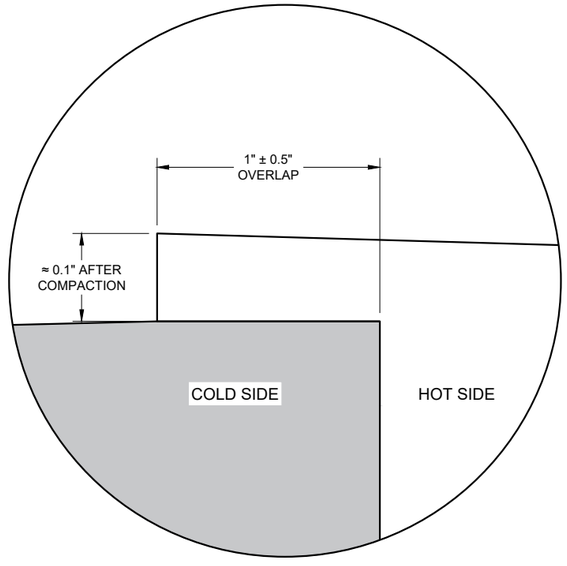
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

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SDD 13C19 - 03

SDD 13C19 - 03

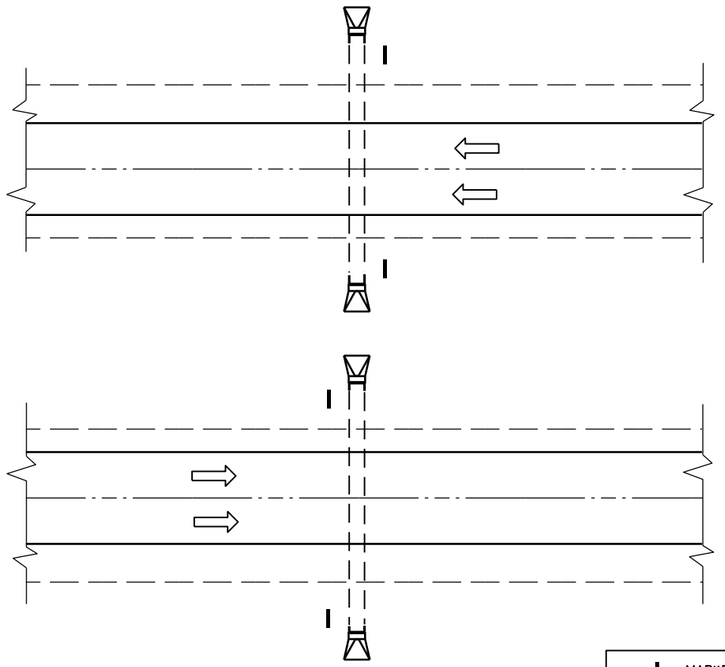
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

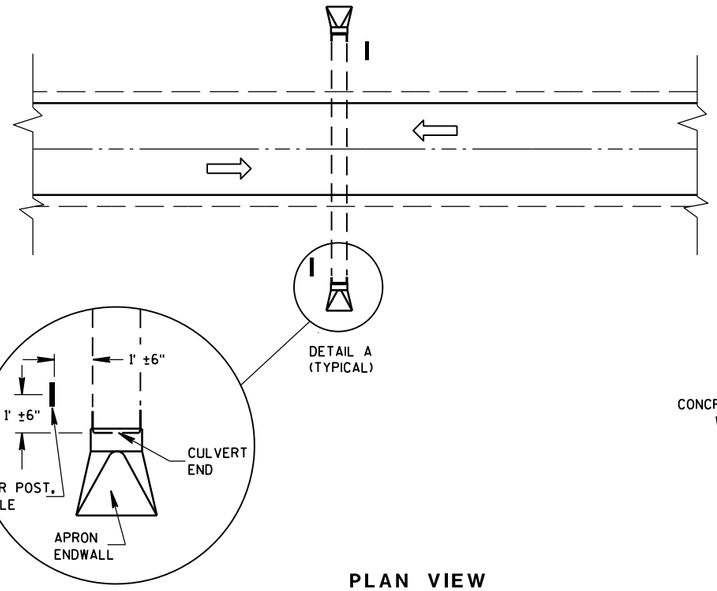
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

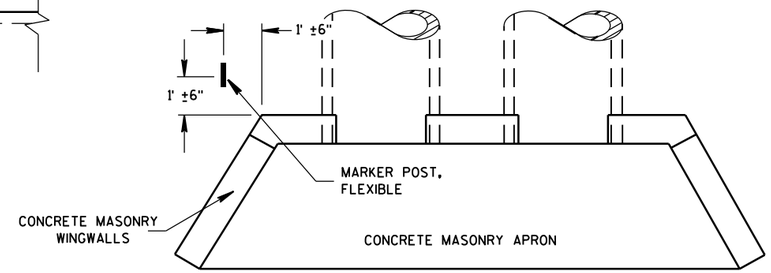
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

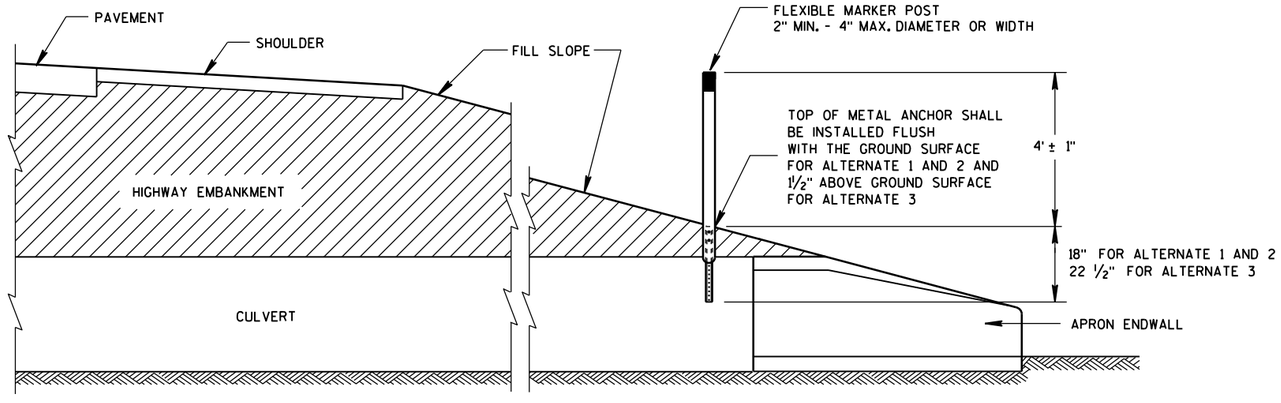
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 A 3-2a

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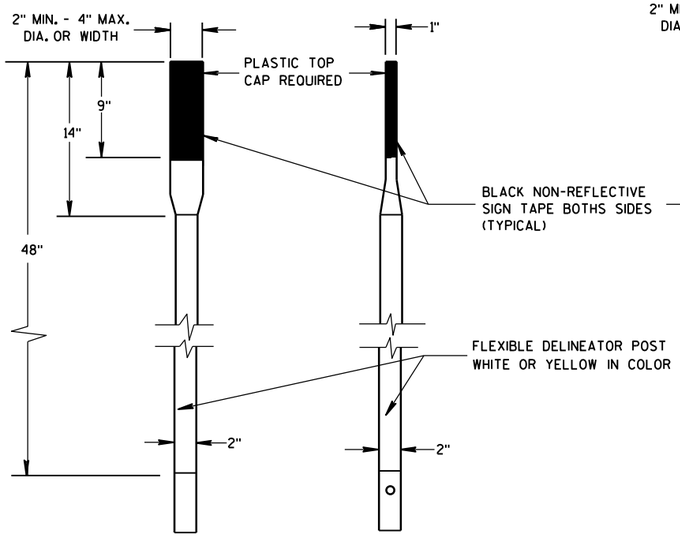
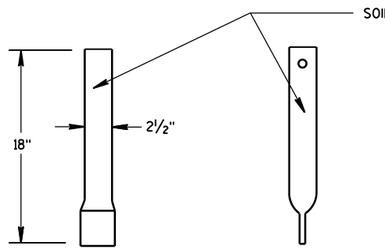
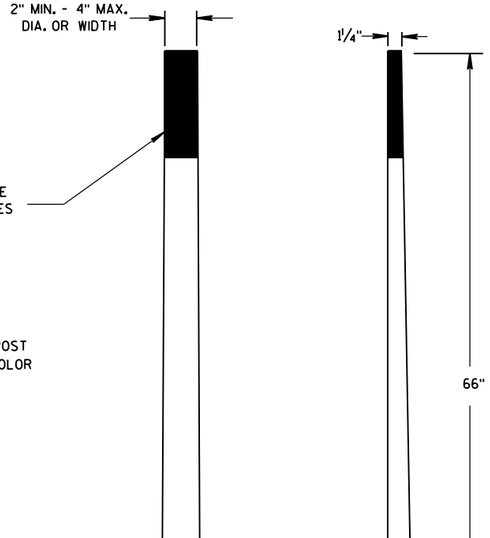
S.D.D. 15 A 3-2a





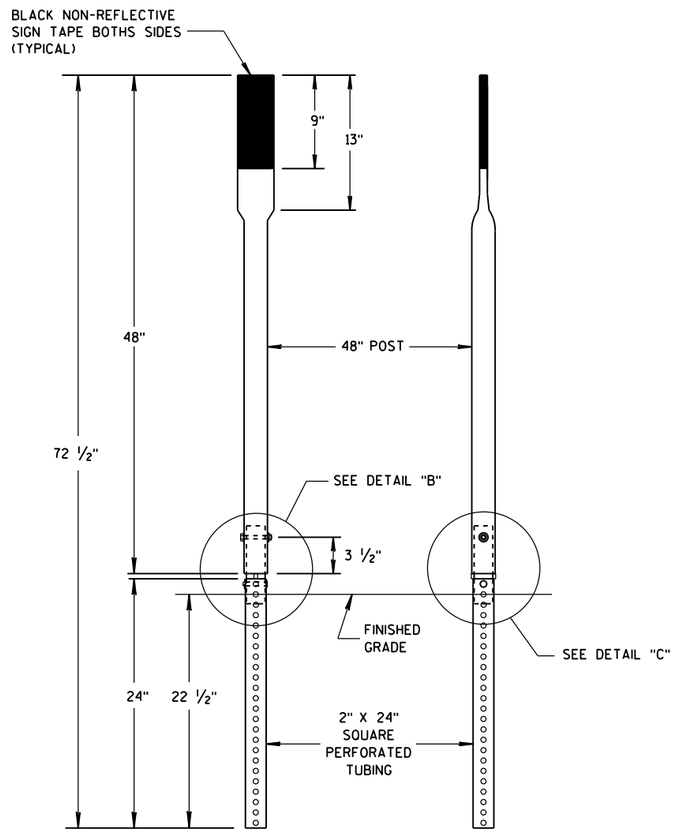
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

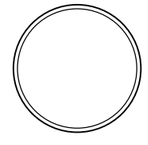
ALTERNATE 2



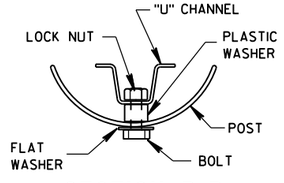
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS



SECTION A-A



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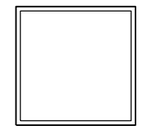

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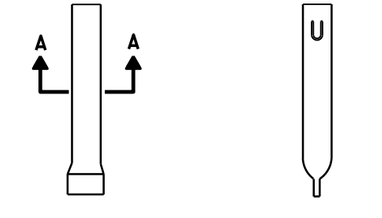
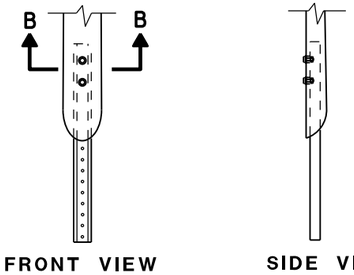


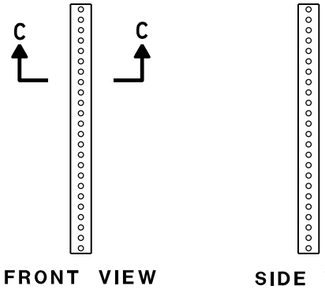
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

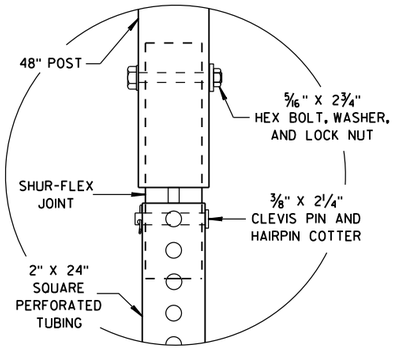
ALTERNATE 2



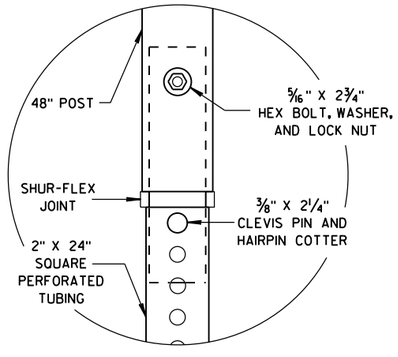
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

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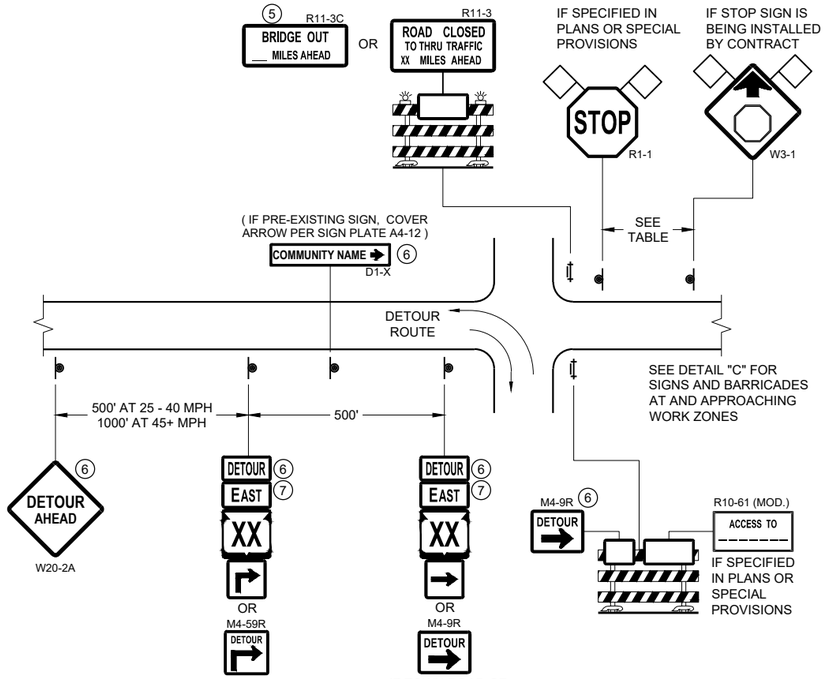
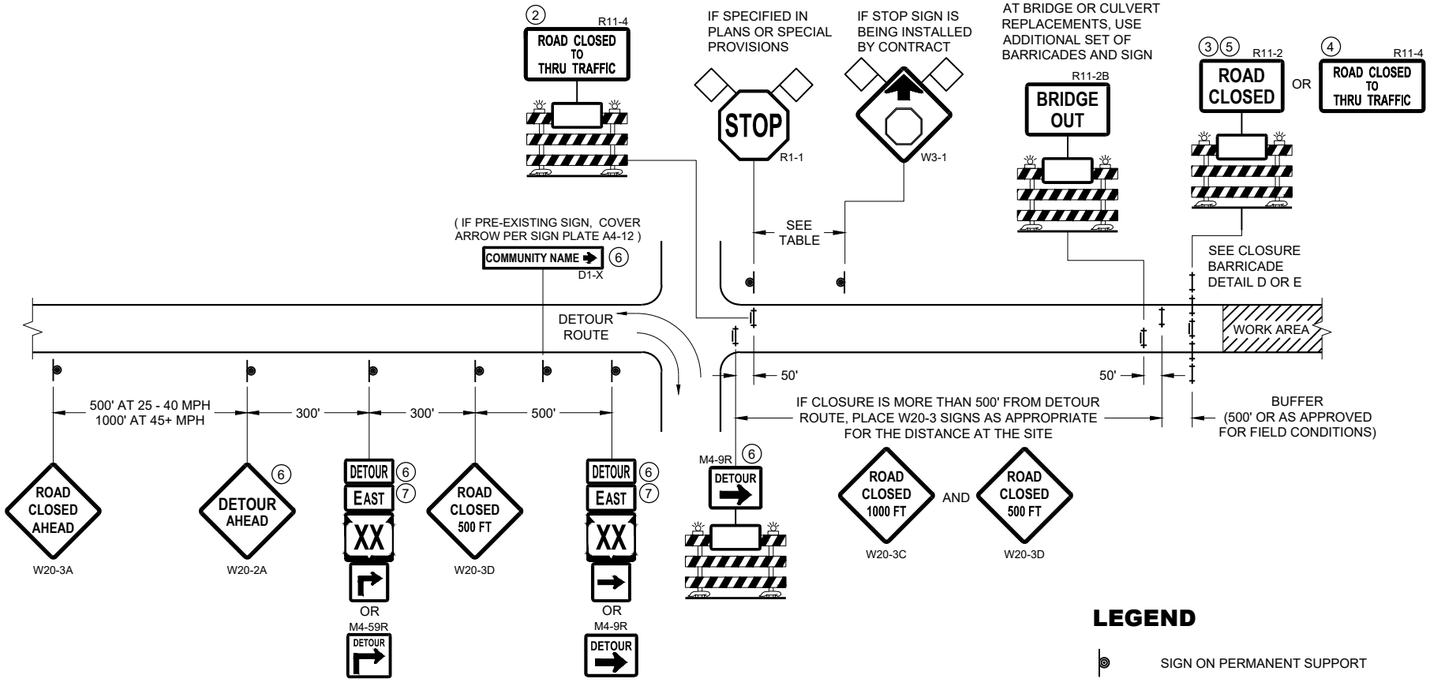
S.D.D. 15 A 3-2b





DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

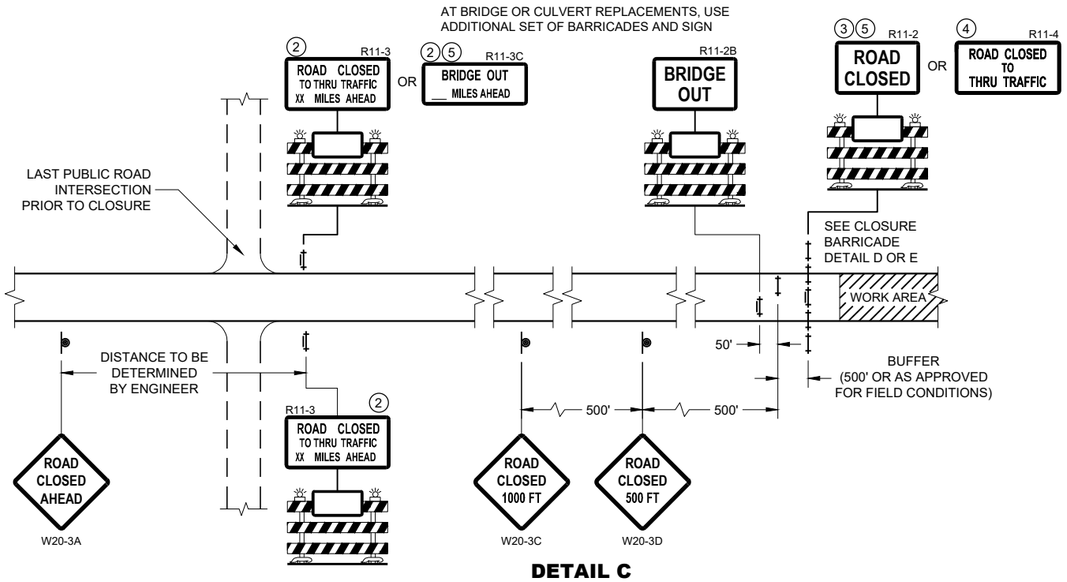
DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

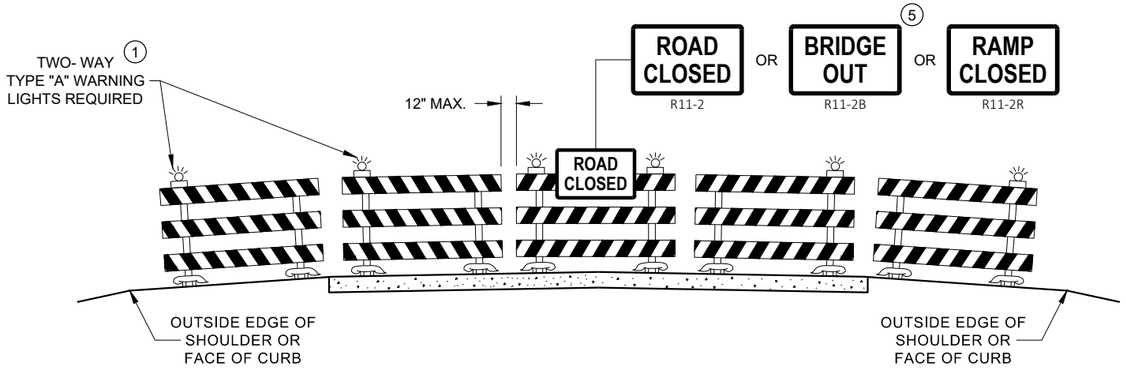
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

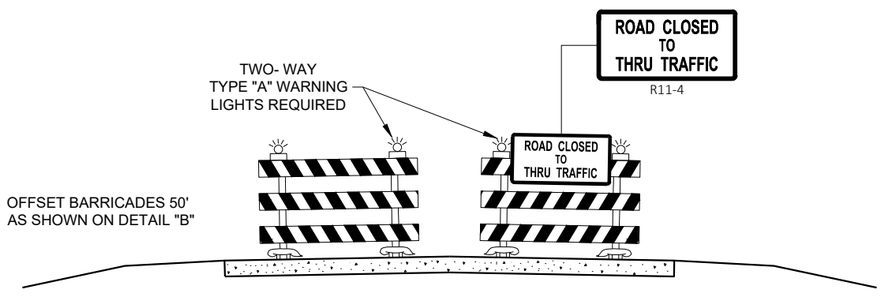
6

SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 08b

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SDD 15C02 - 08b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

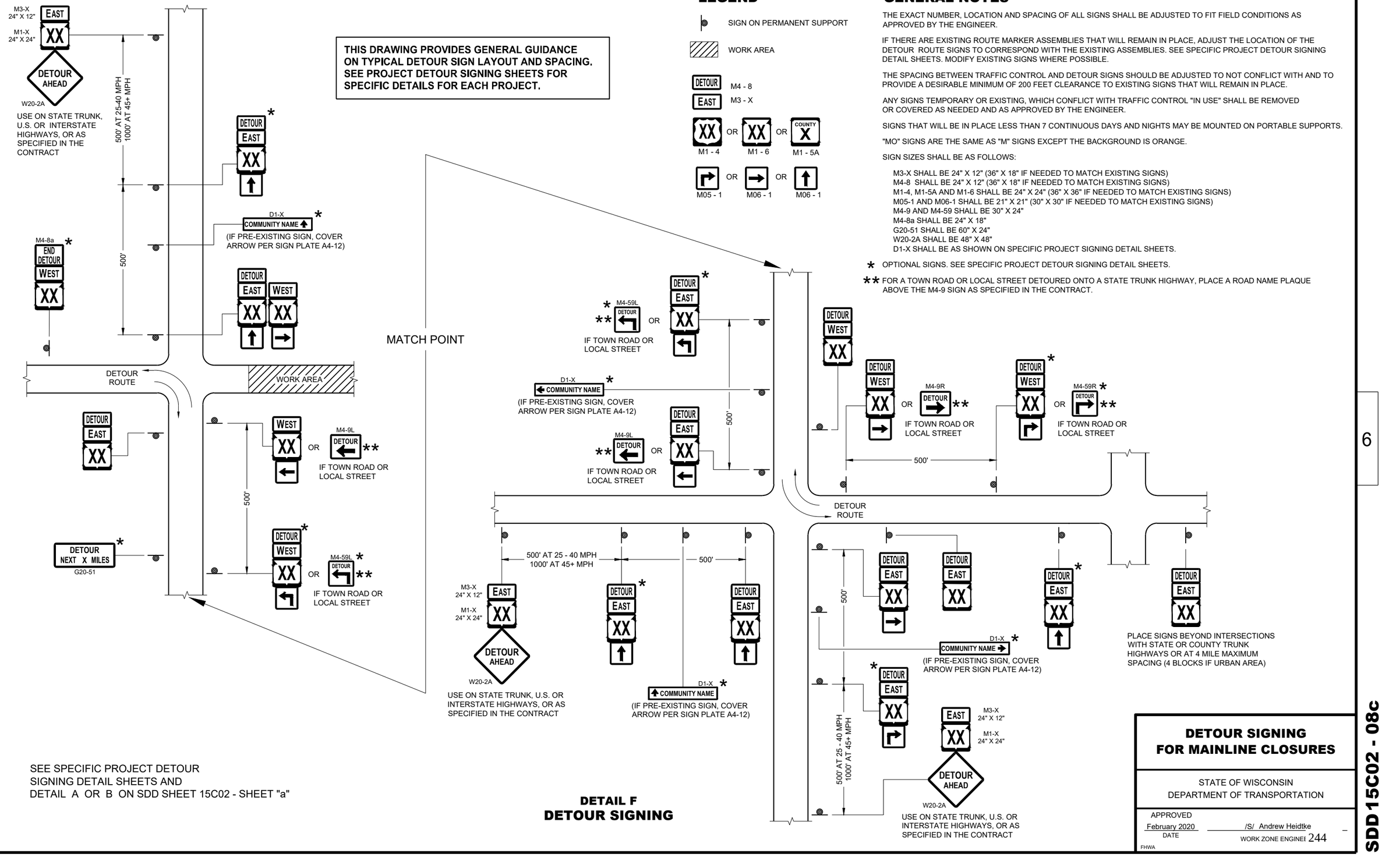
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

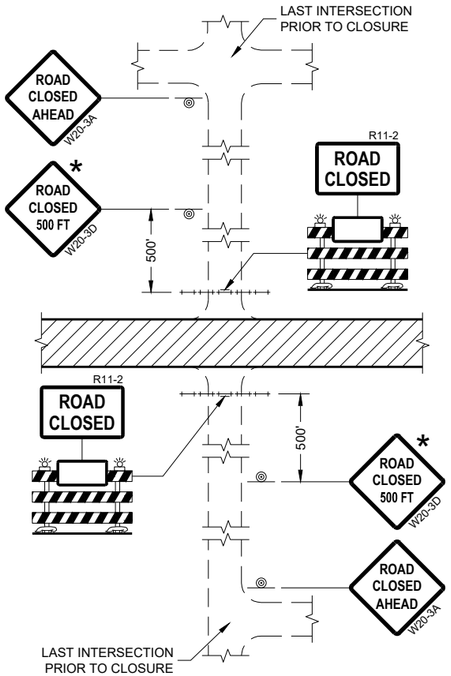
APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

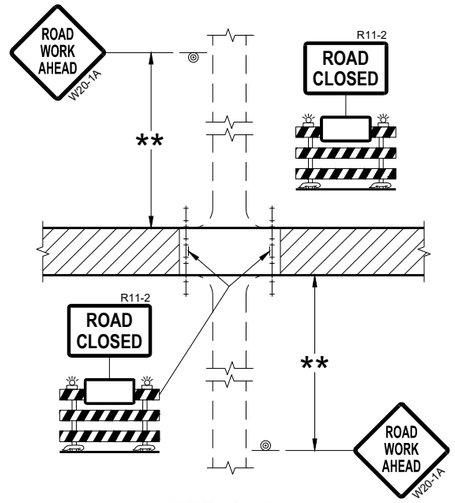
FHWA

SDD 15C02 - 08c

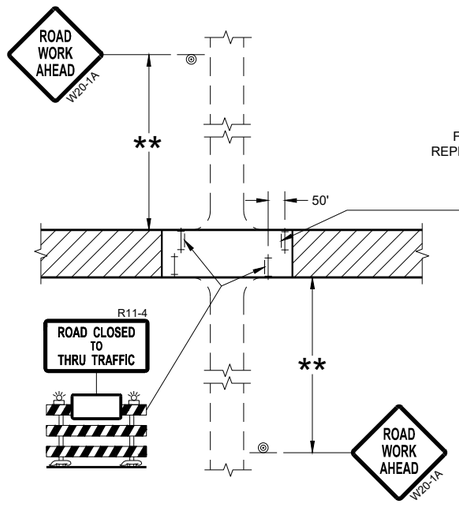
6



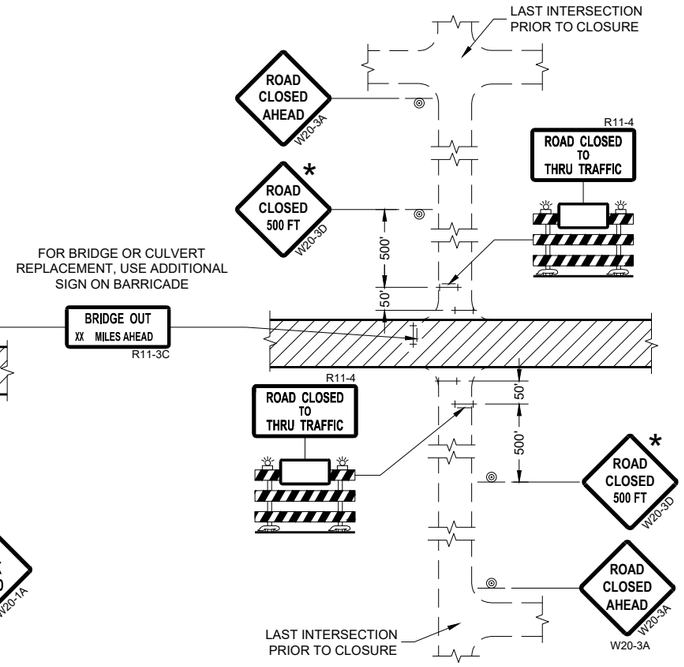
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C03 - 05

SDD 15C03 - 05

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

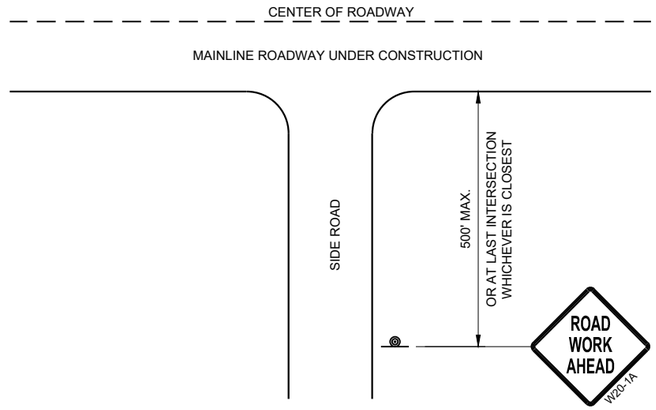
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



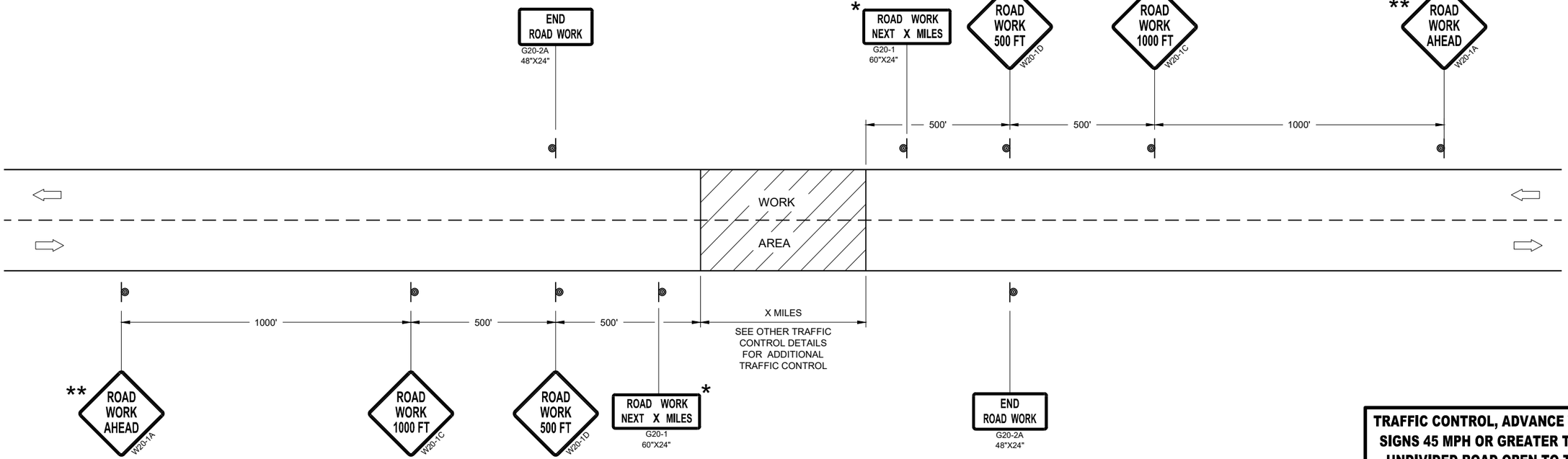
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C04 - 05

GENERAL NOTES

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

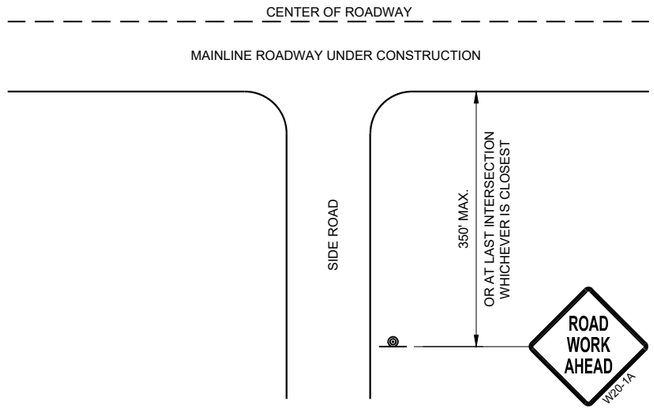
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



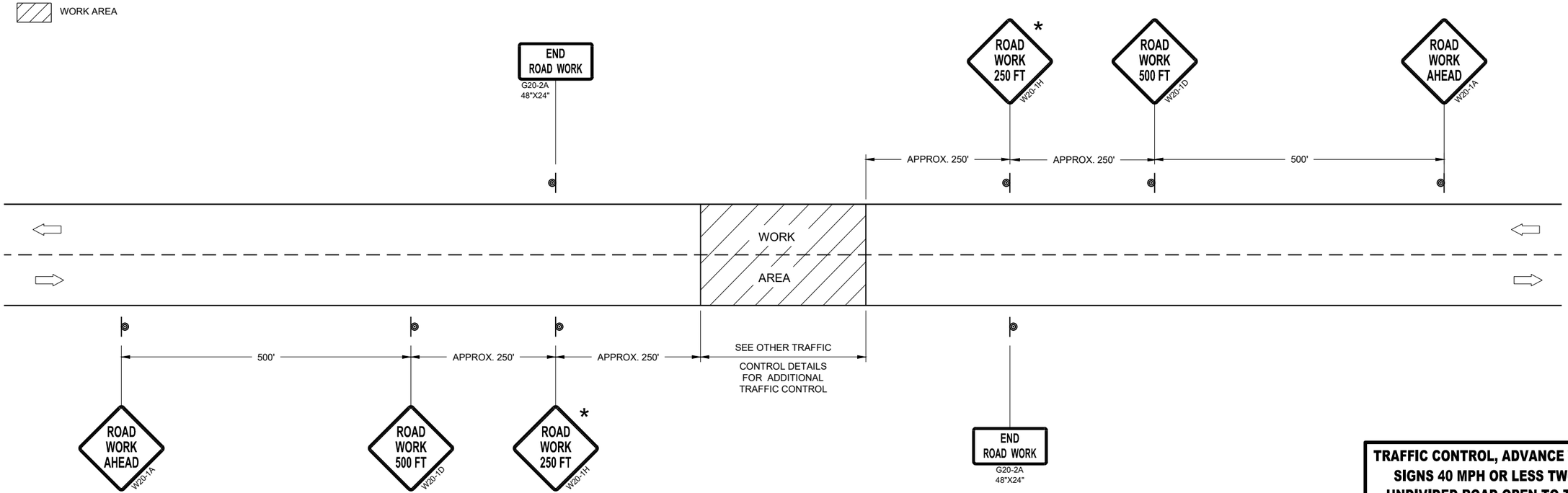
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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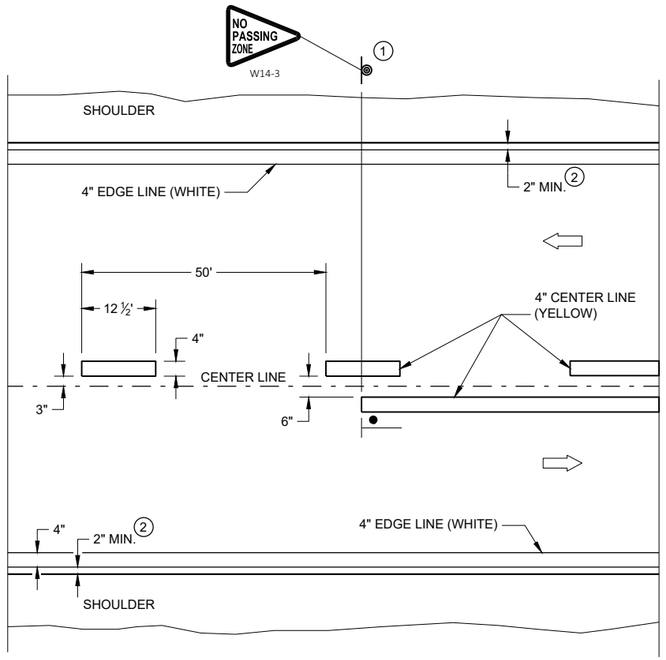
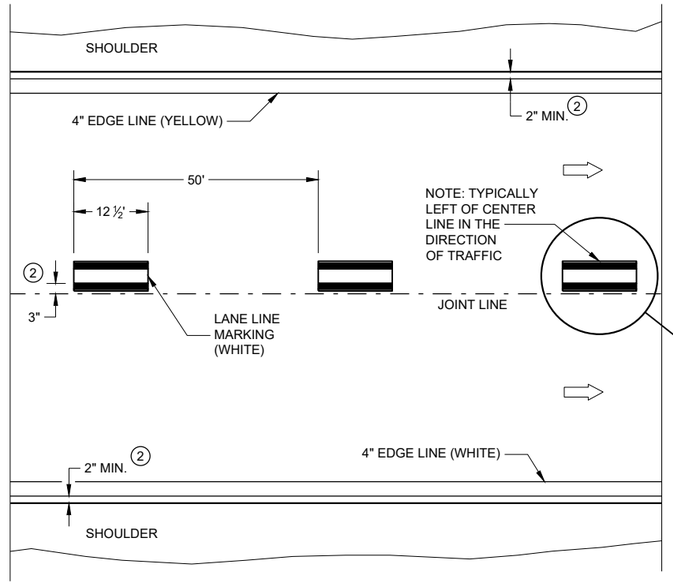
SDD 15C05 - 05

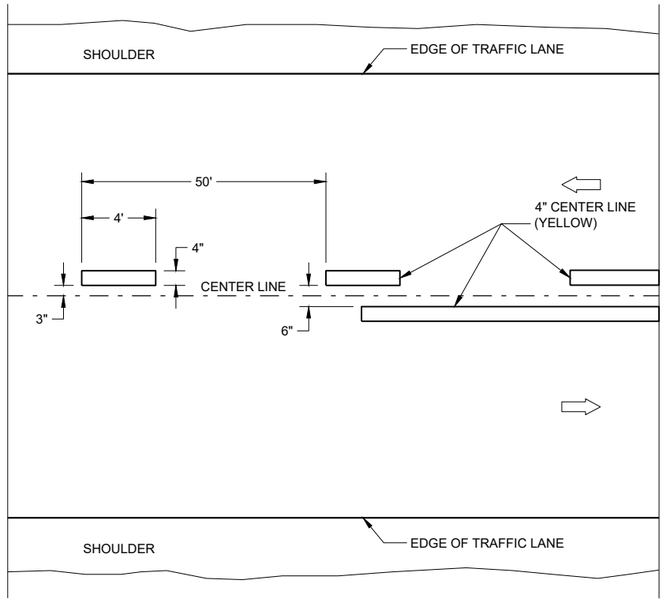


TWO WAY TRAFFIC

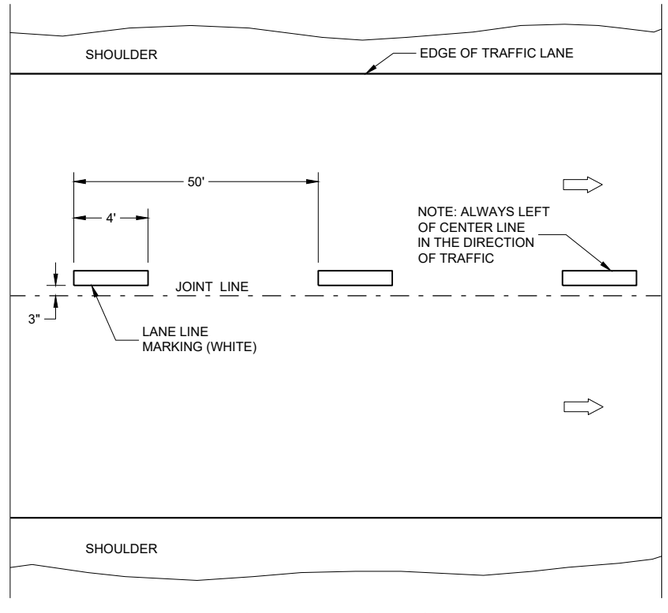


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

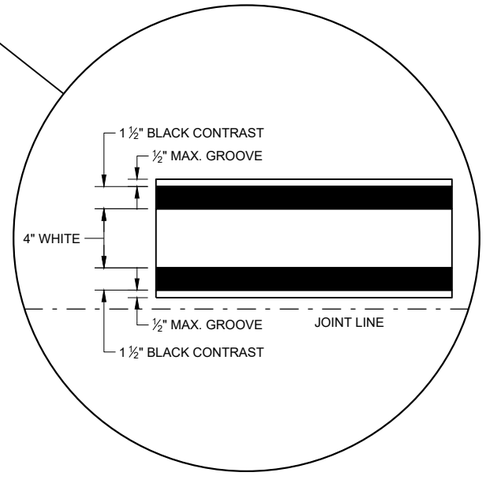
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M ENGINEER

FHWA

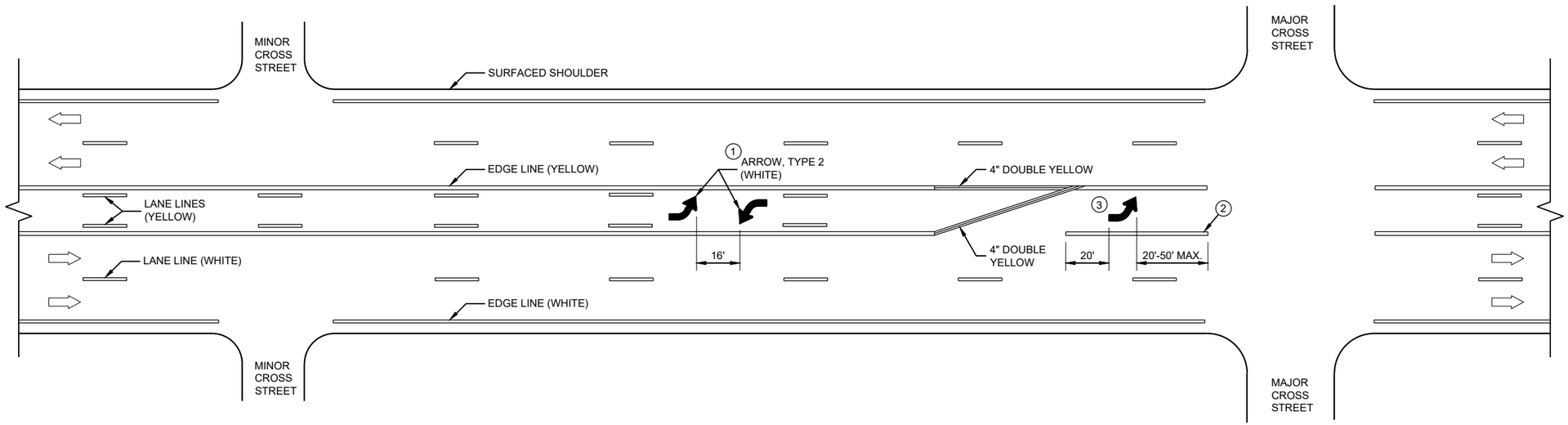
SDD 15C08 - 20a

SDD 15C08 - 20a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

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SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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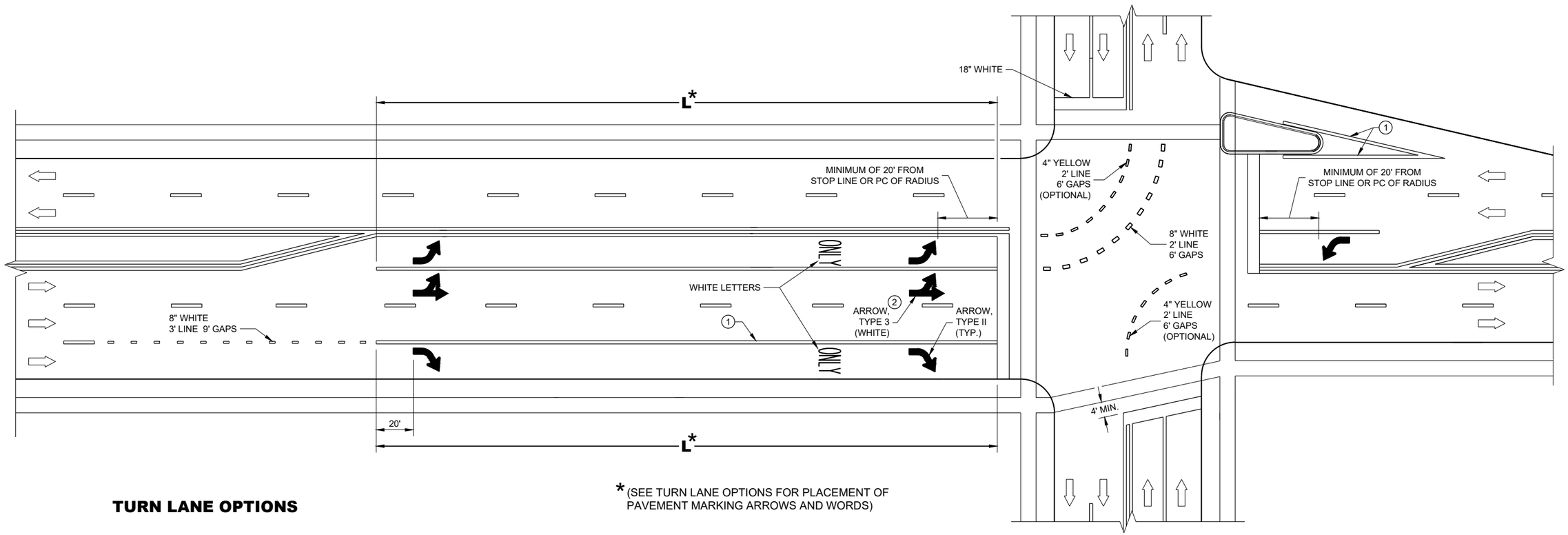
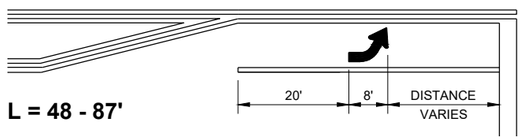
SDD 15C08 - 20b



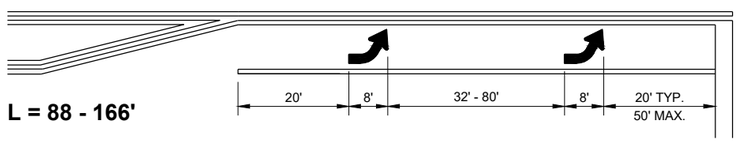
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

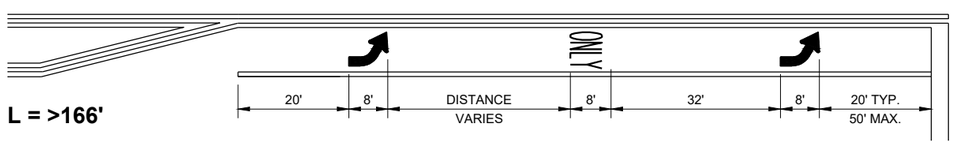
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

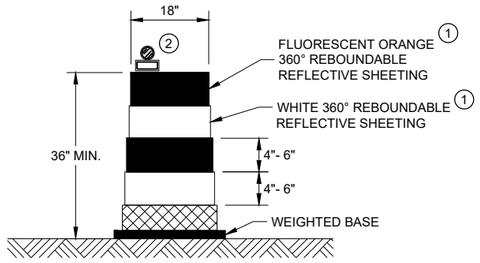
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

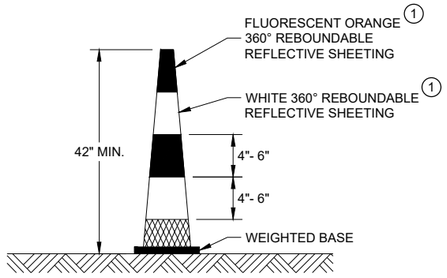
SDD 15C08 - 20c

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

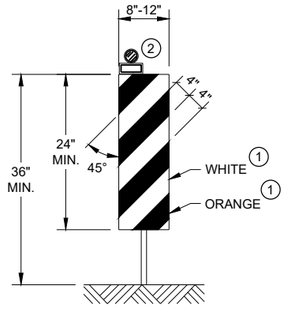


DRUM



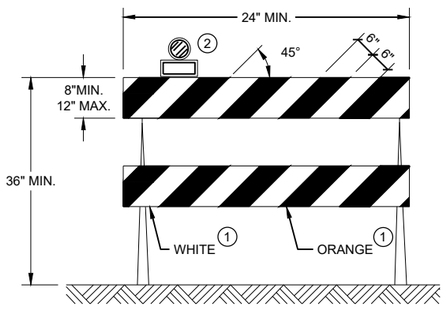
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



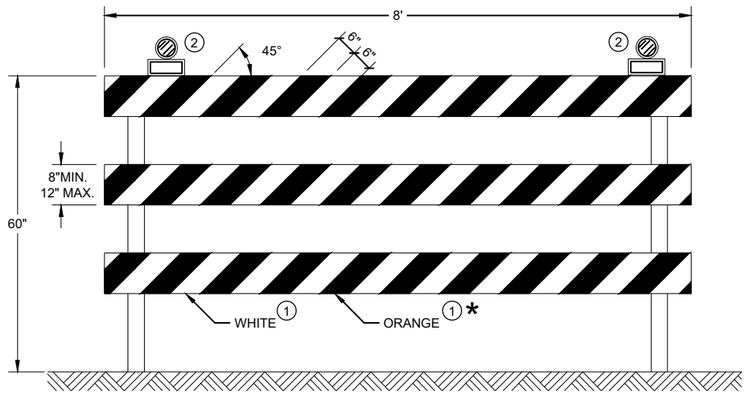
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 09b

6

SDD 15C11 - 09b

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

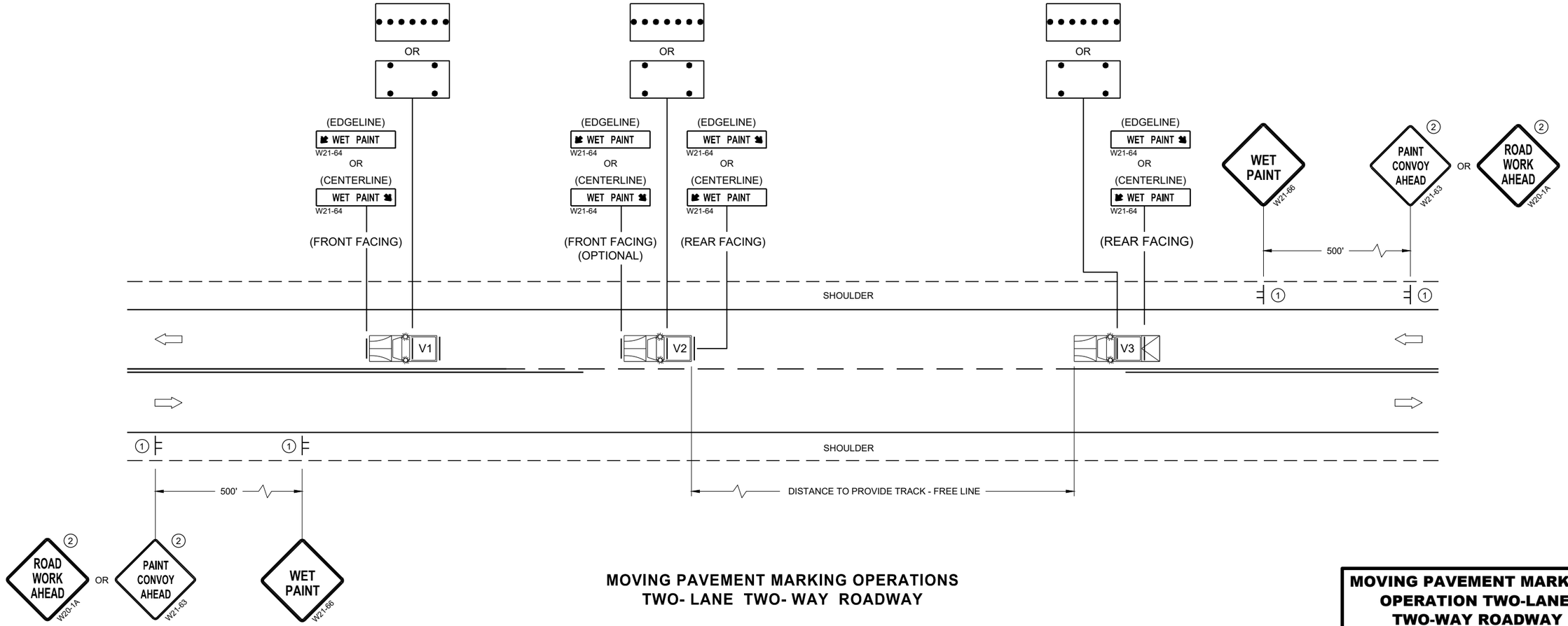
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

252

FHWA

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SDD 15C19 - 06a

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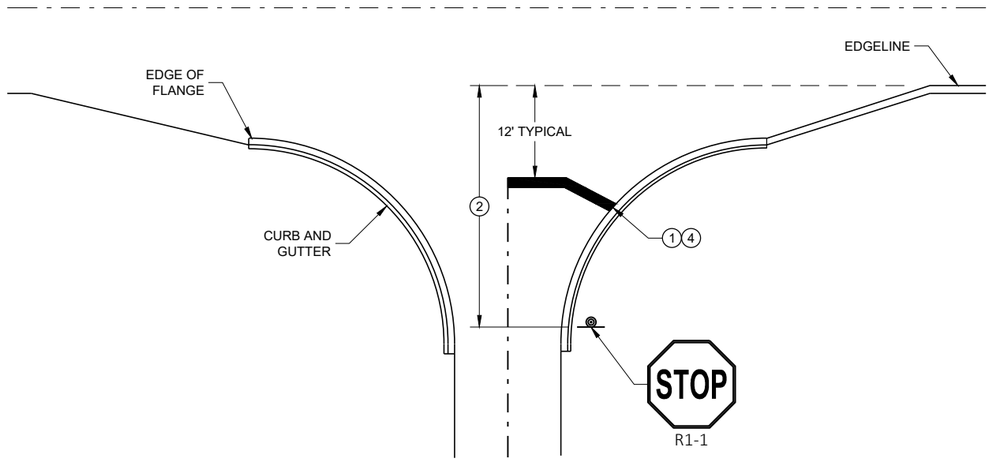
SDD 15C19 - 06a

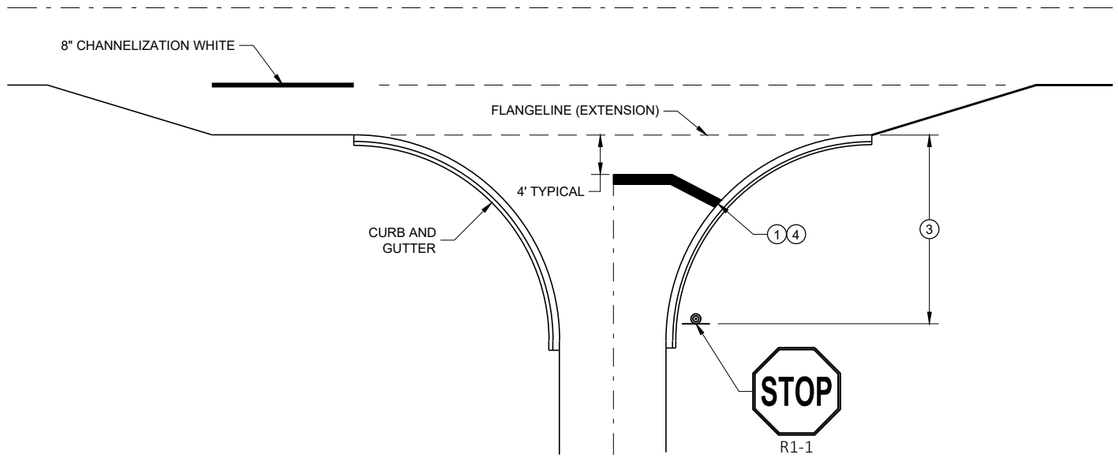
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

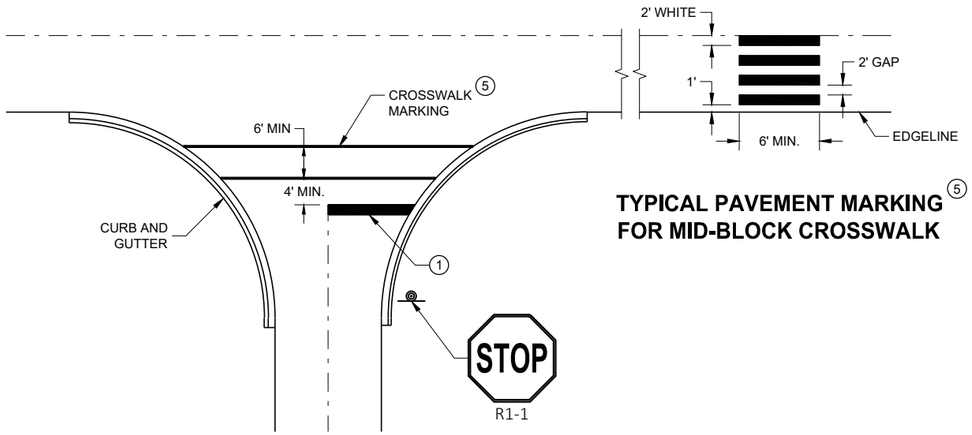
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

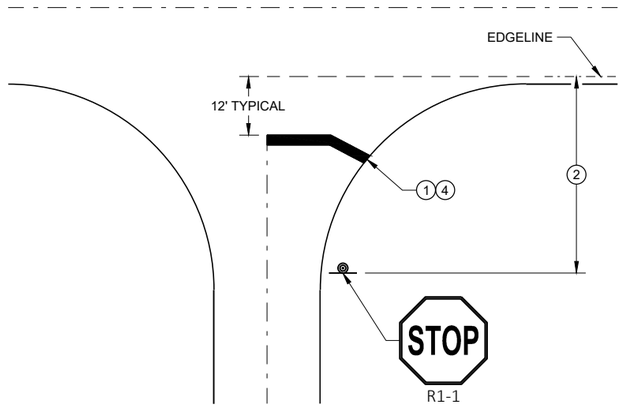


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C33 - 04

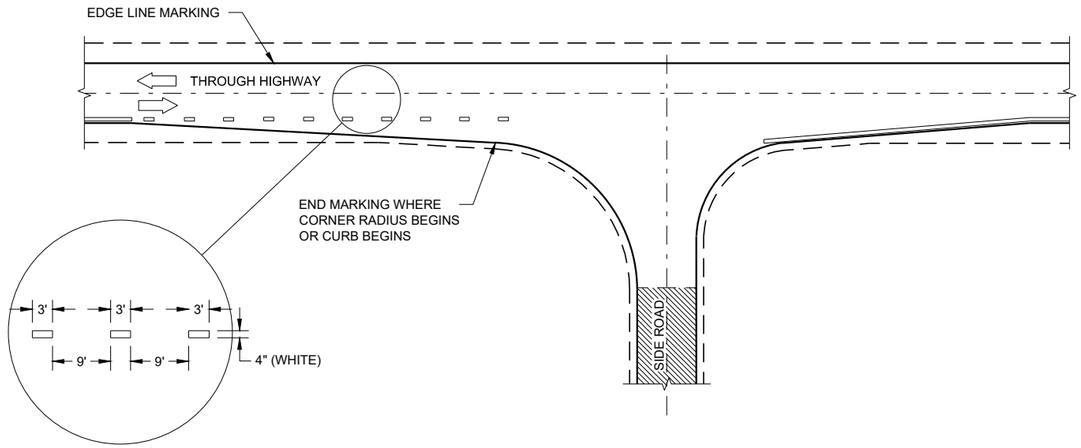
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

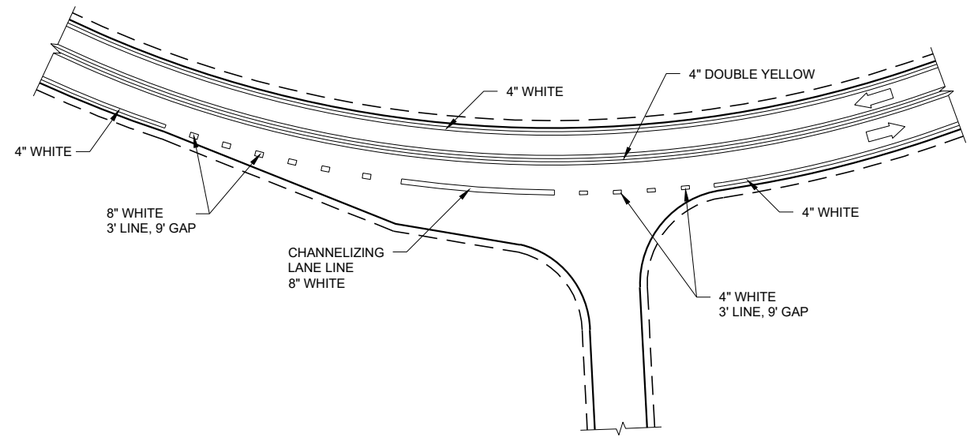
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

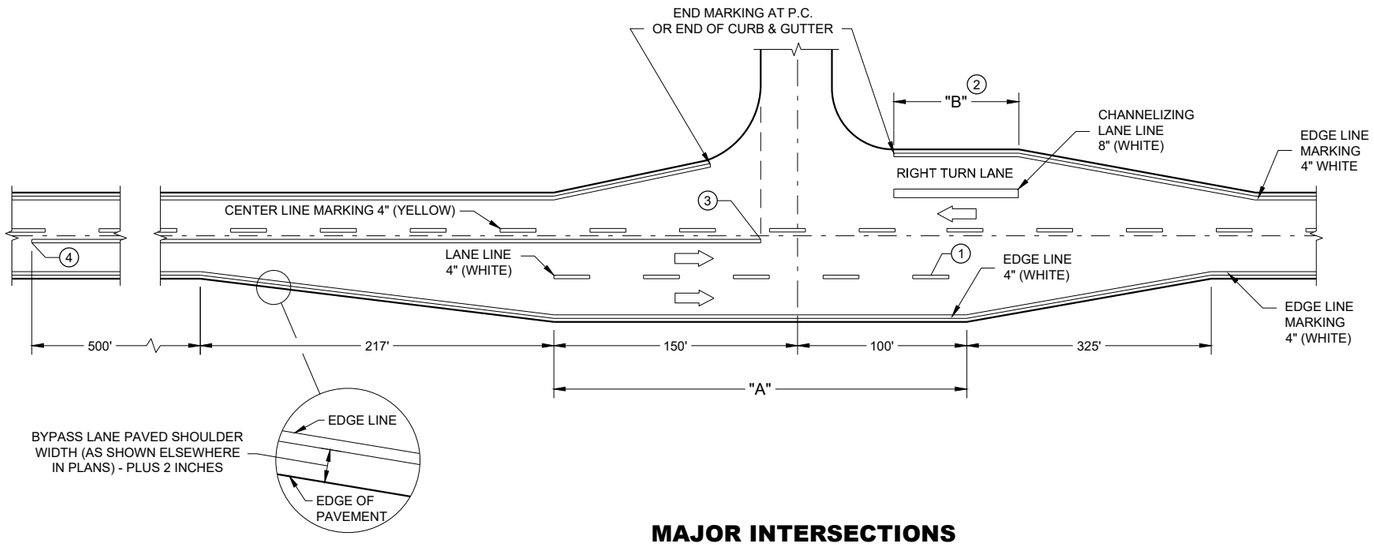
DIRECTION OF TRAVEL



MINOR INTERSECTION



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04a

6

SDD 15C35 - 04a

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

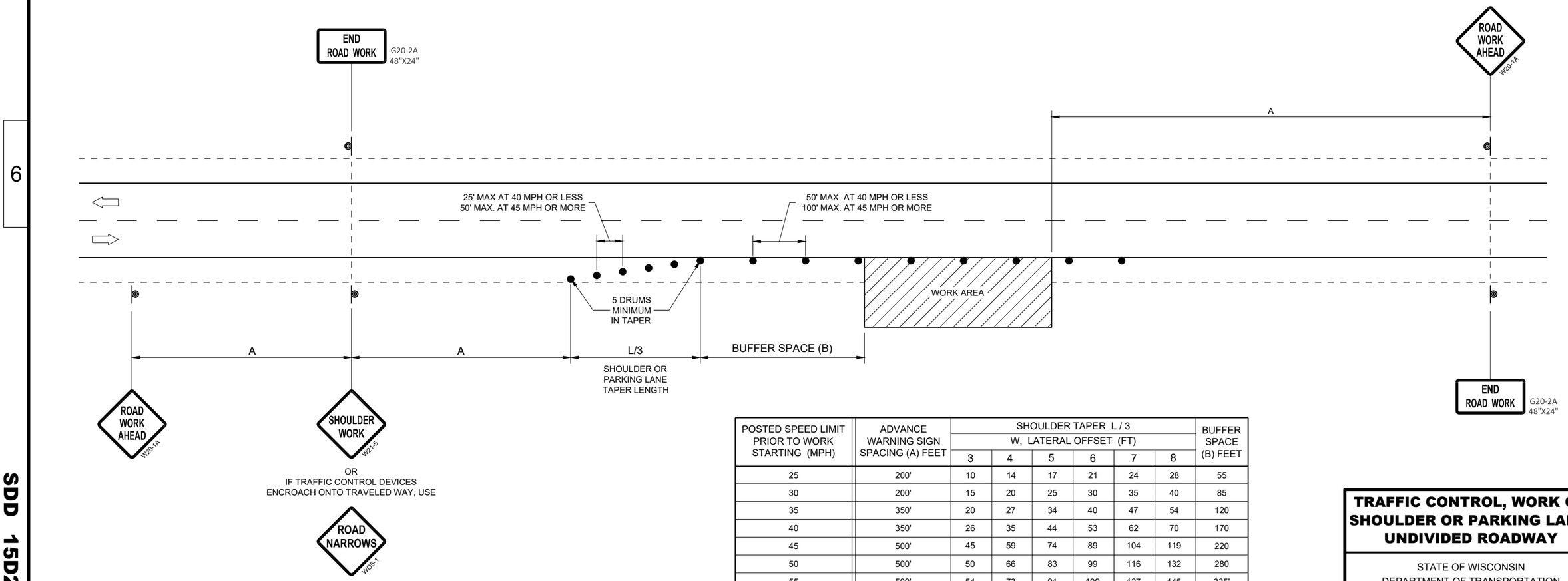
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

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

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



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

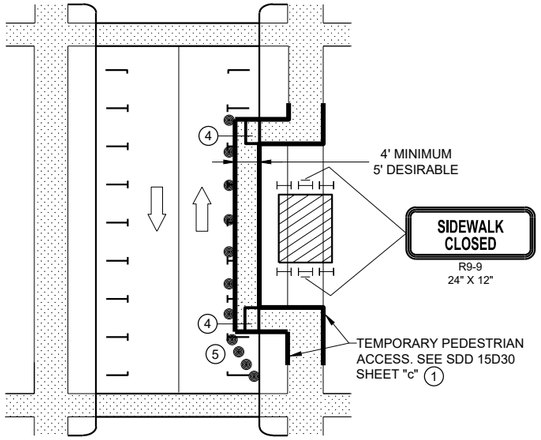
/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6

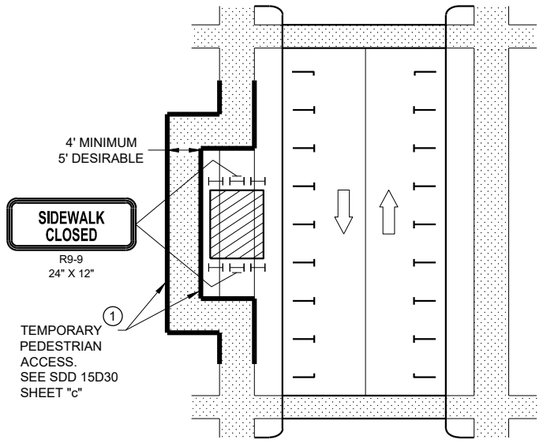
SDD 15D28 - 04

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

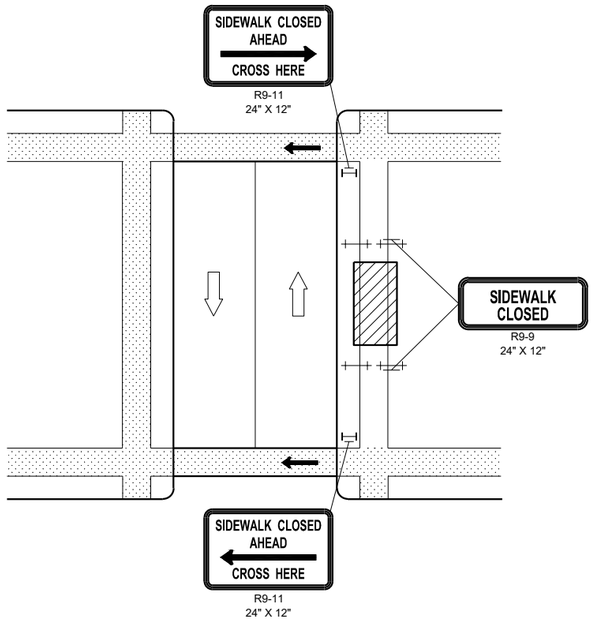


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

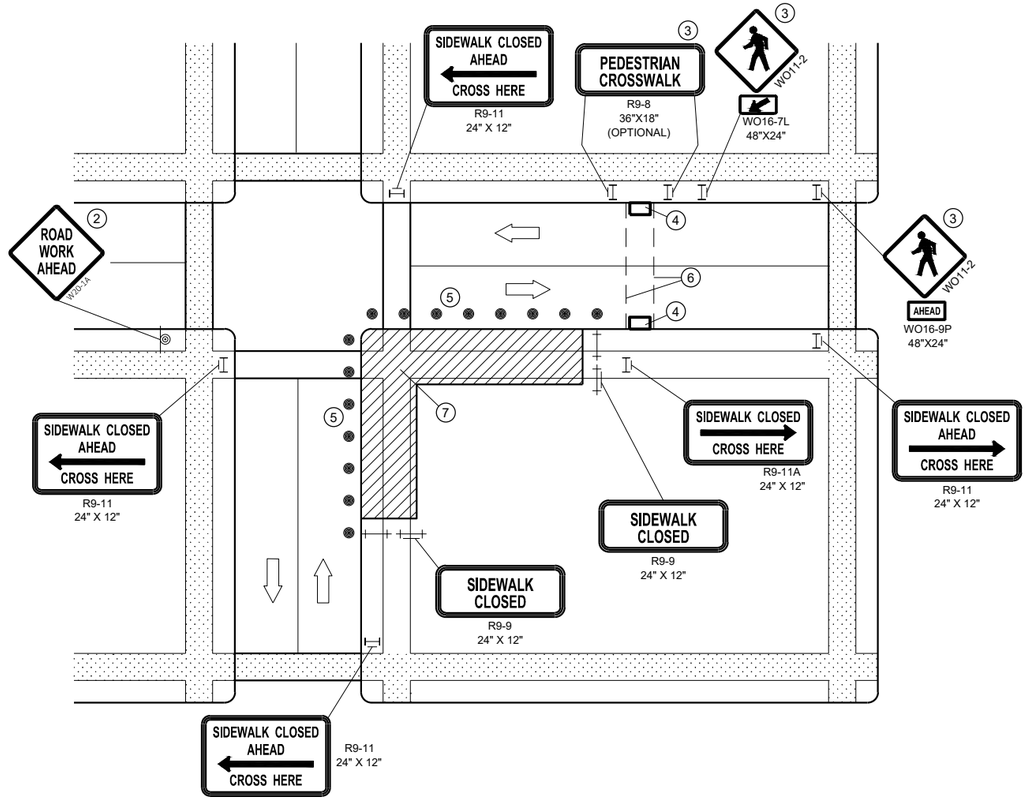
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

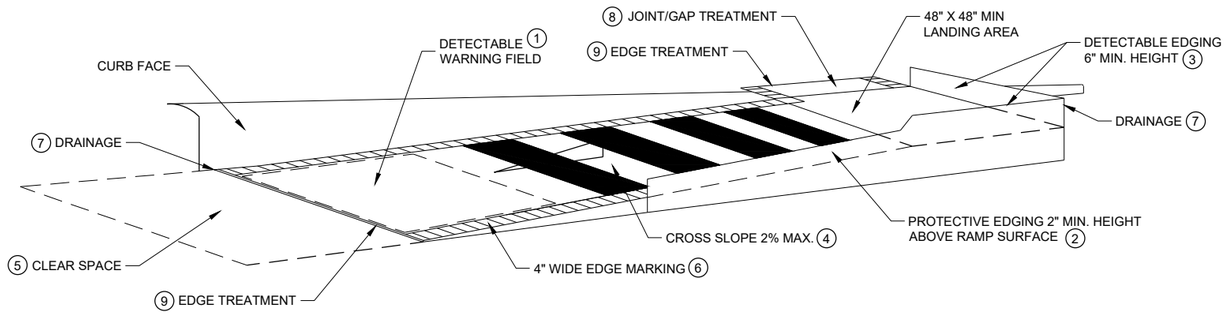
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

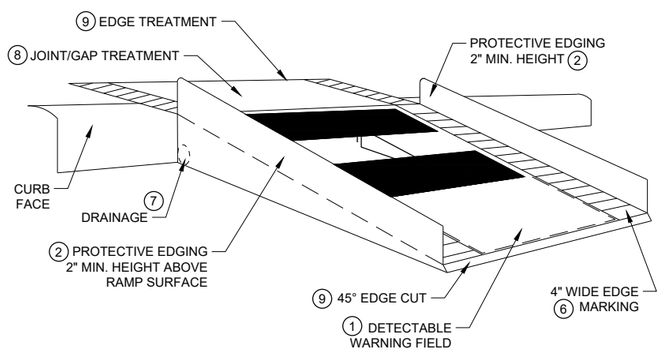
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

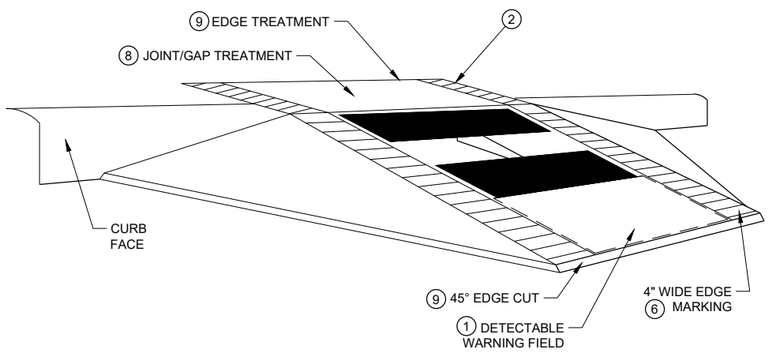
SDD15D30 - 06a



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

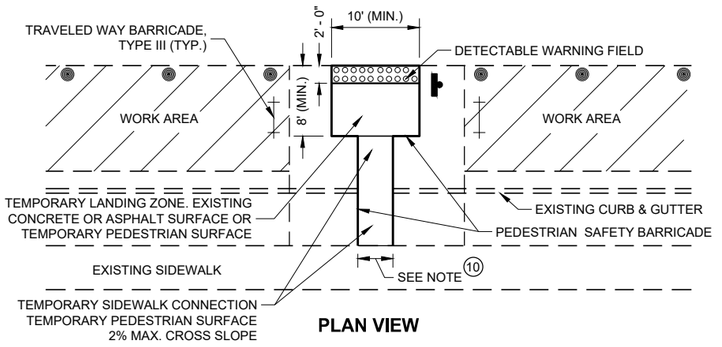
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

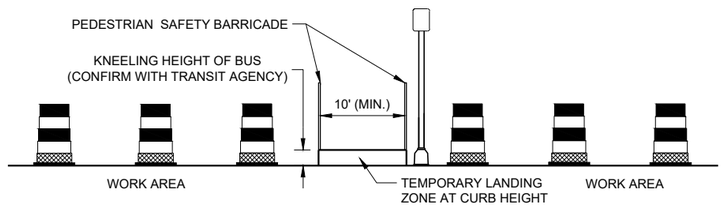
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

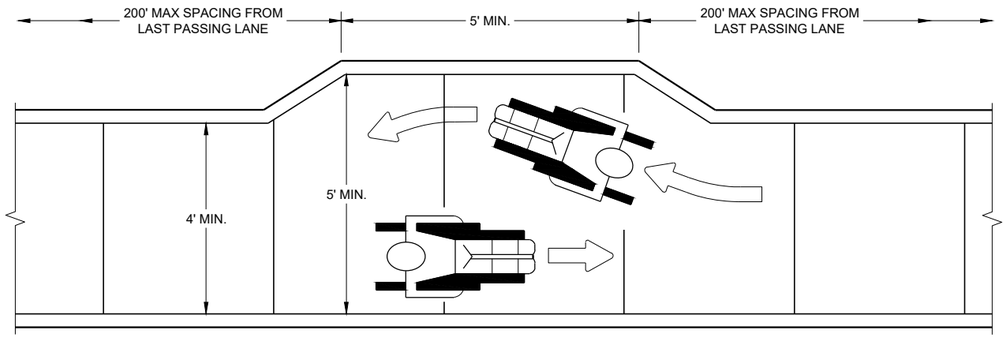
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

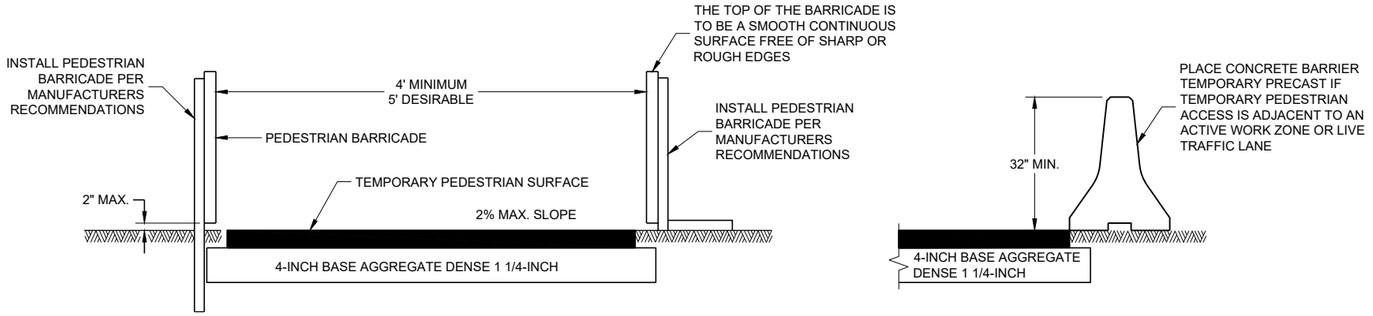
SDD 15D30 - 06b

6

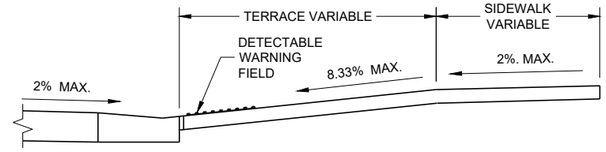
SDD 15D30 - 06b



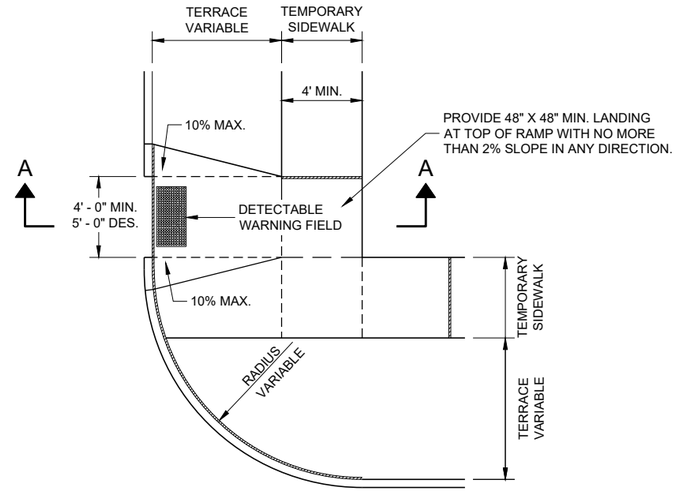
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS



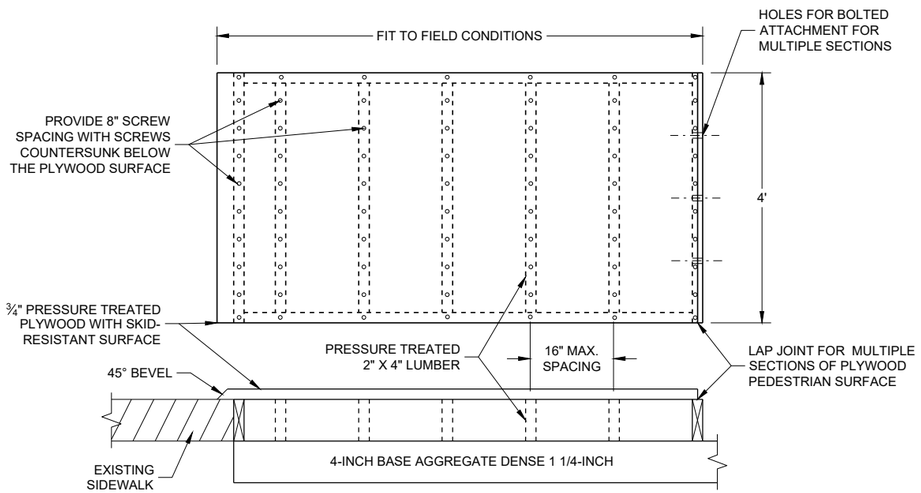
SECTION A - A



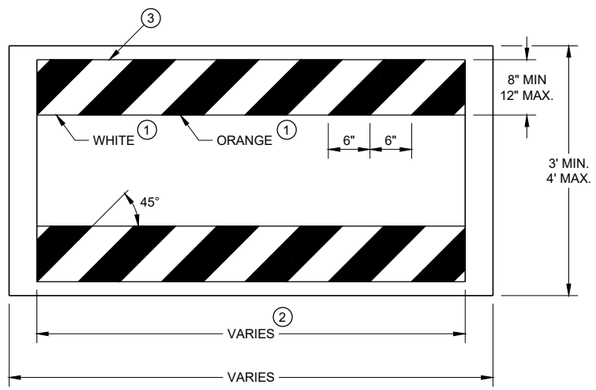
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

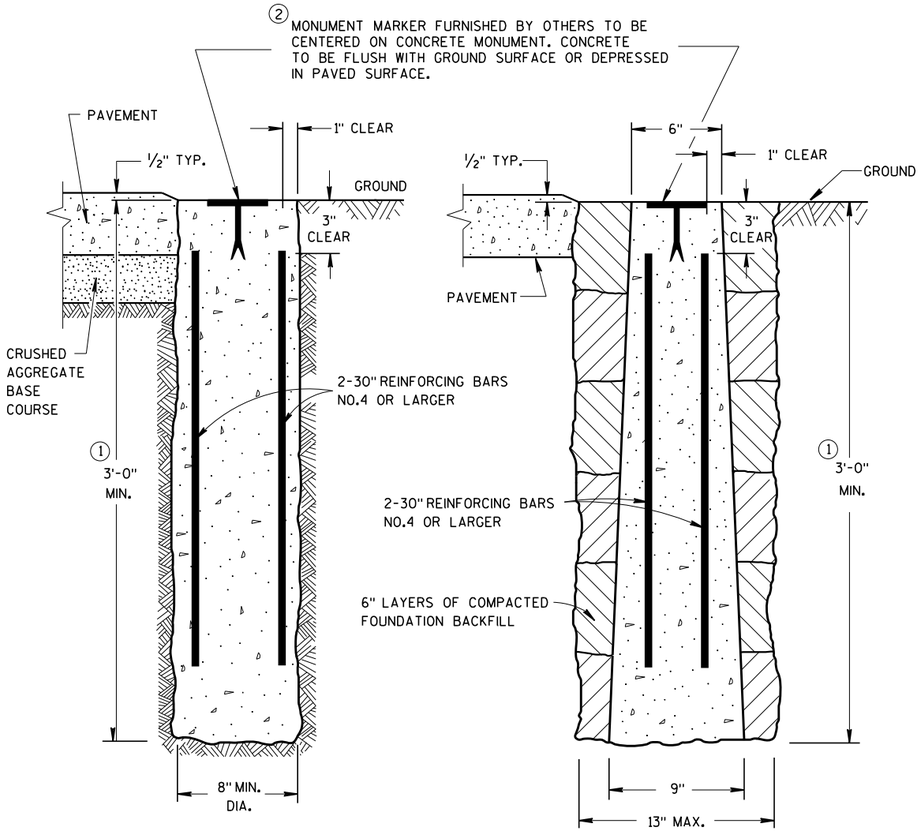
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15D30 - 06c

6

SDD 15D30 - 06c

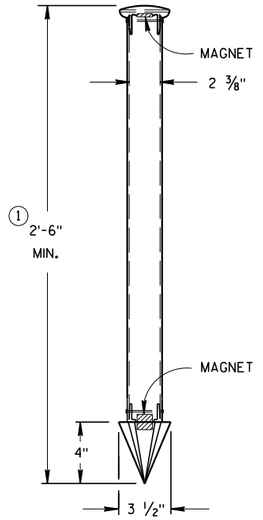


CAST-IN-PLACE

PRECAST

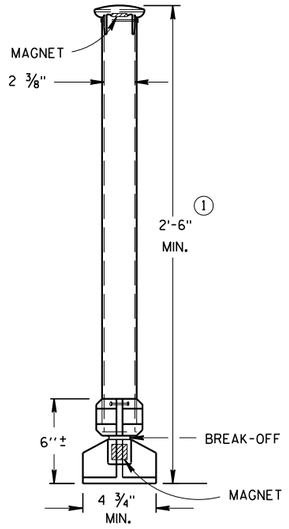
CONCRETE MONUMENTS

TYPE A



TYPE C

DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

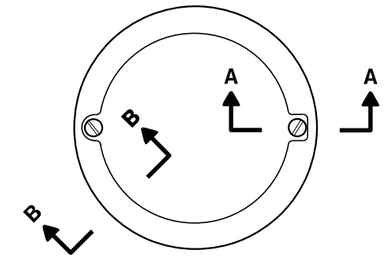
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

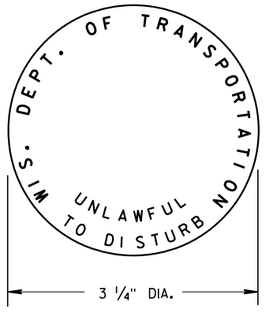
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

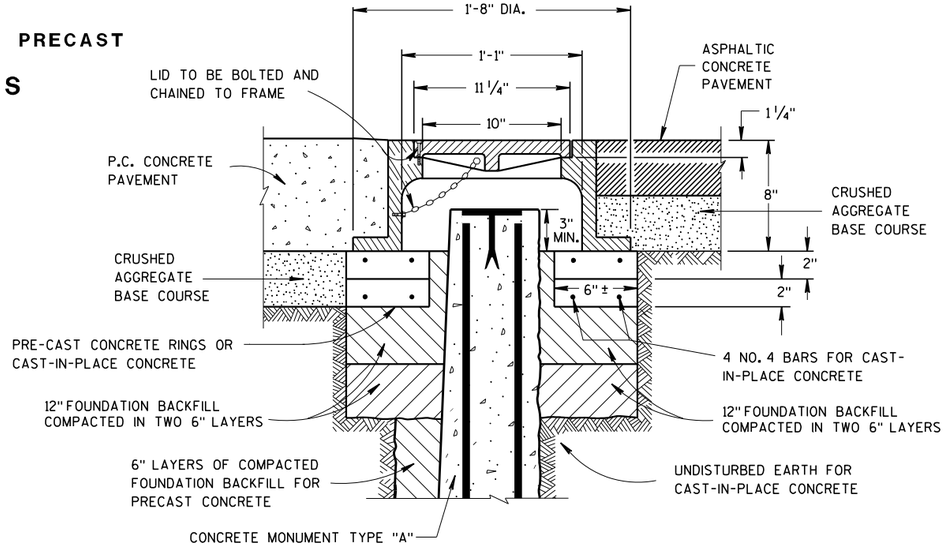


TOP VIEW



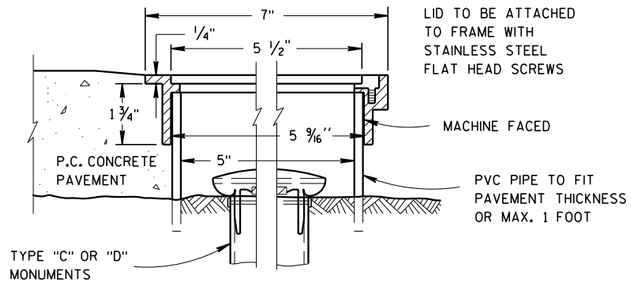
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C", & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

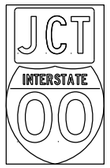
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

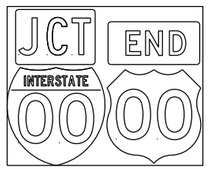
6

S.D.D. 16 A 1-7

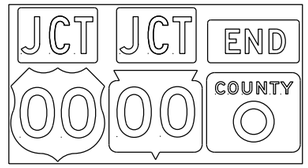
TYPICAL ASSEMBLIES



J1-1



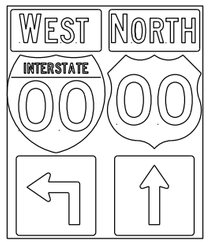
J1-2



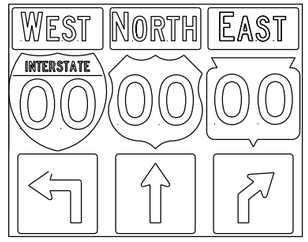
J1-3

JR1-1

J2-1

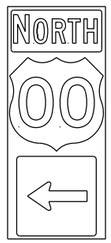


J2-2

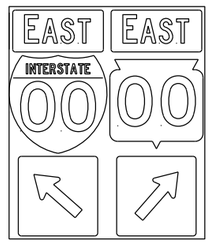


J2-3

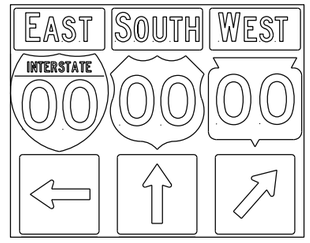
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



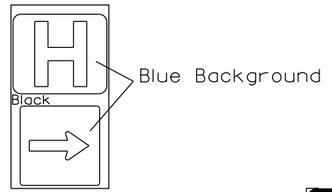
J3-1



J3-2

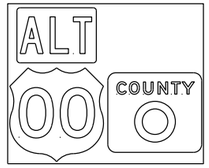


J3-3

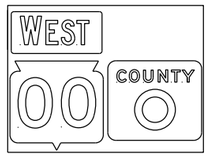


JH-1

J4-1

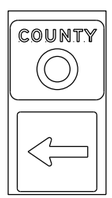


J4-2

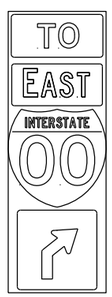


J4-2

J12-1

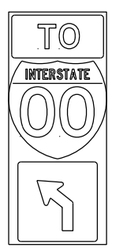


J13-1



J32-1

J33-1



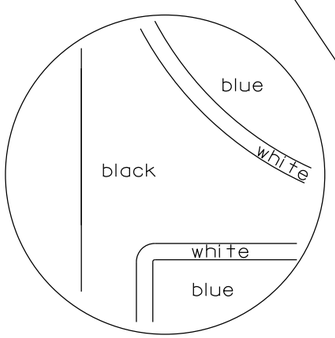
J22-1

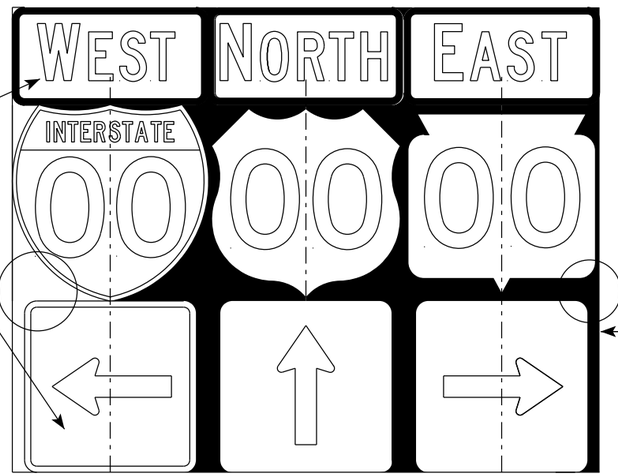
J23-1

JR13-1

JR23-1

JR99-1





NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

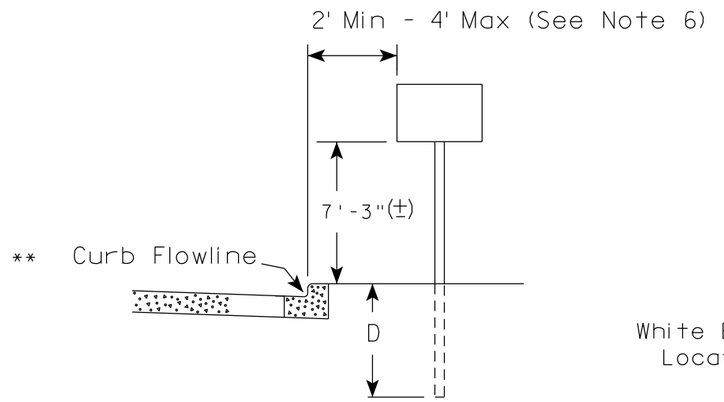
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

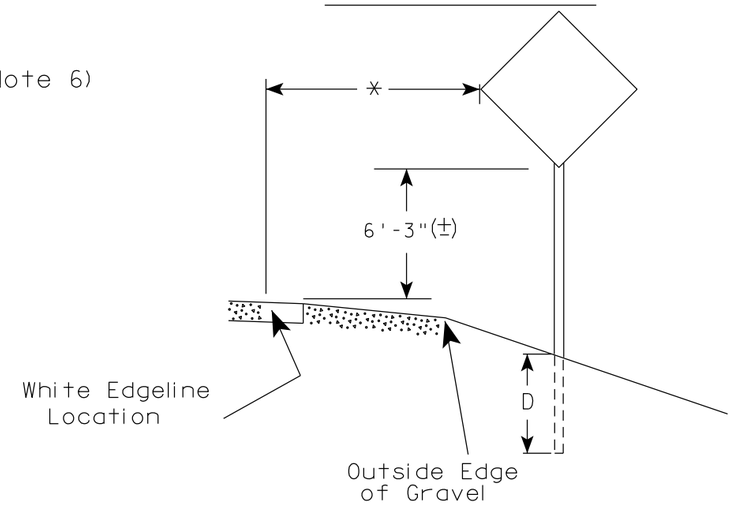
PROJECT NO:

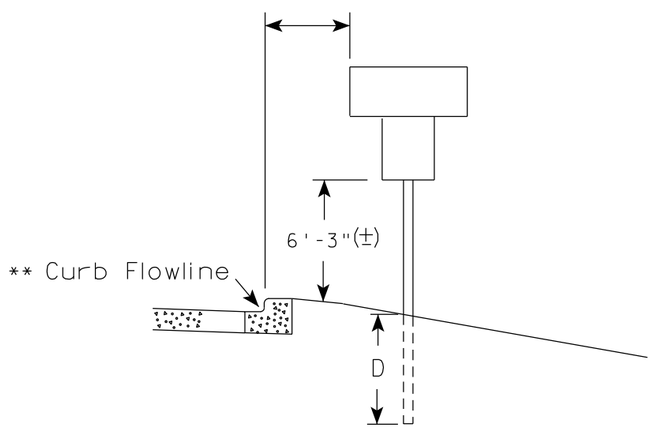
SHEET NO: 260 **E**

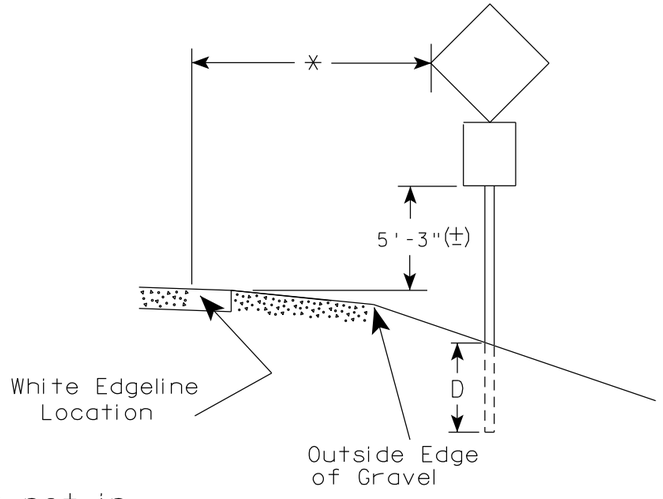
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

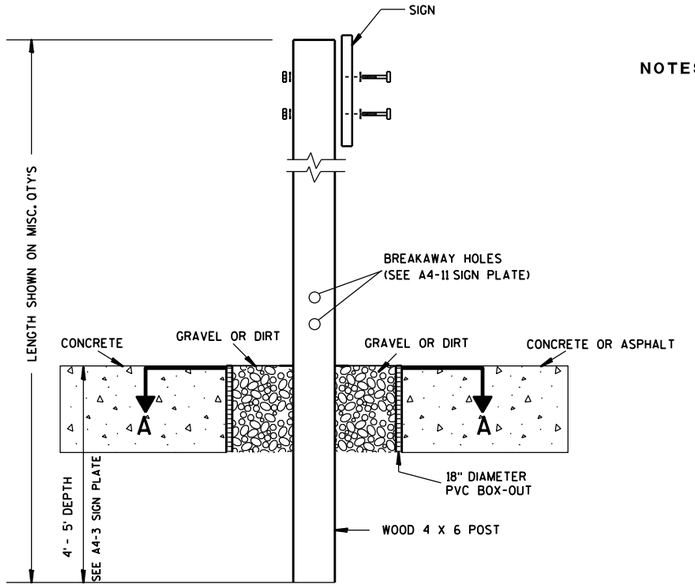
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

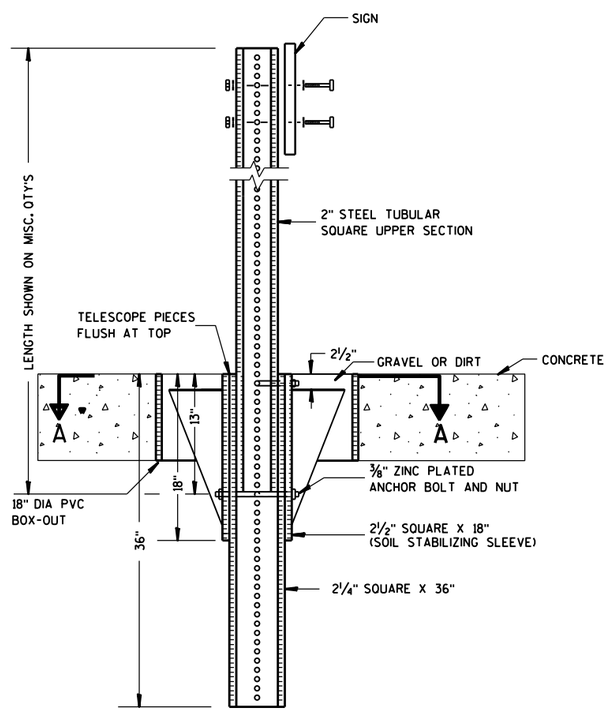
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 261	E



ELEVATION VIEW

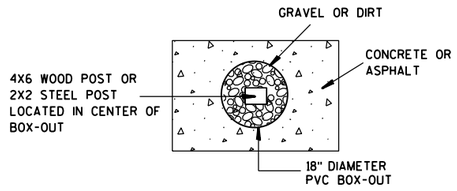
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

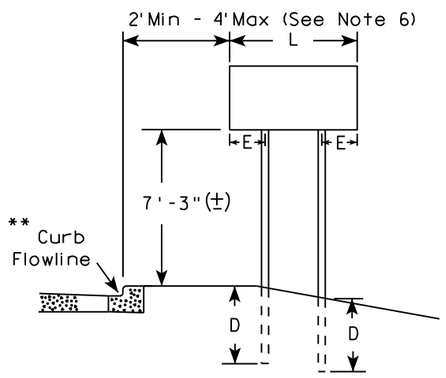
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

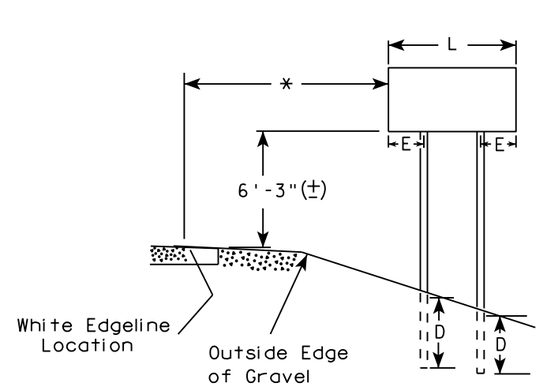
DATE 1/27/14 PLATE NO. A4-3B.1

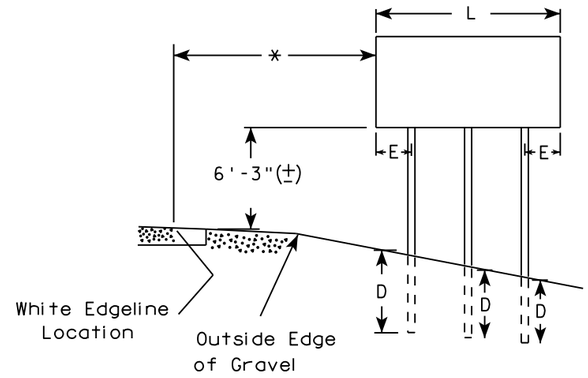
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

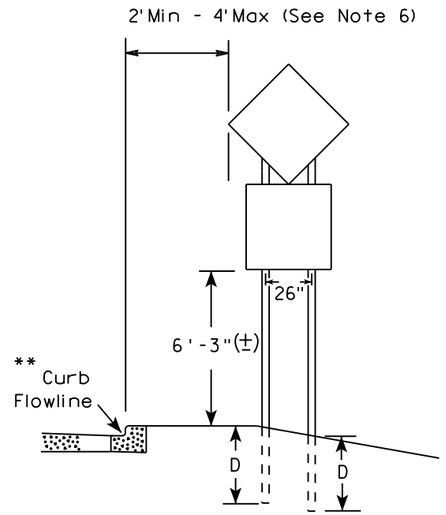
URBAN AREA



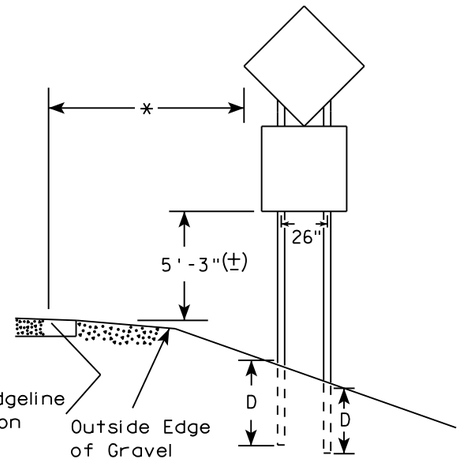
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

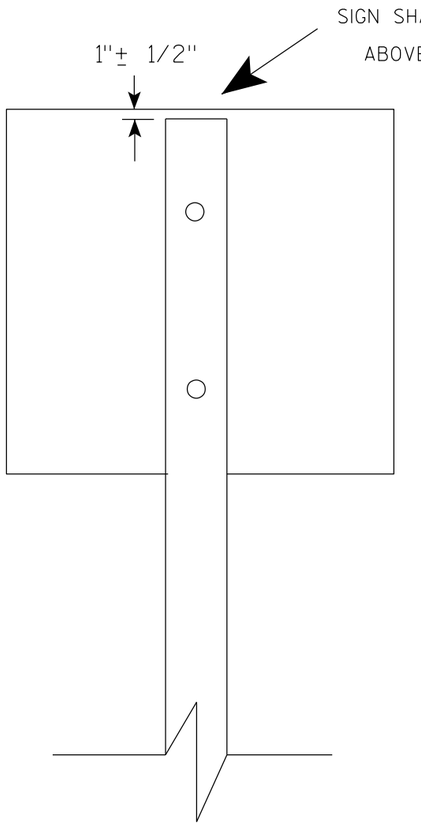
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

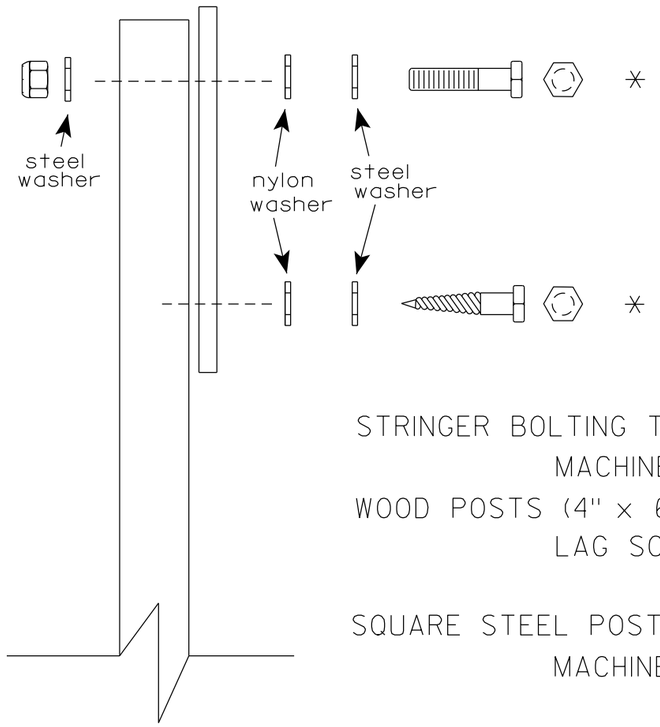
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 263	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

SHEET NO: 264 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 01-APRIL-2020 PLOT BY : dotc4c

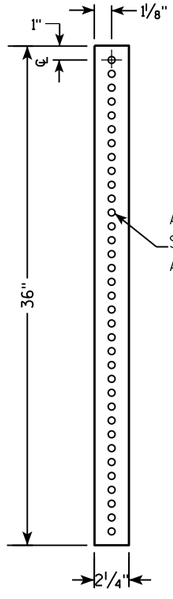
WISDOT/CADDS SHEET 42

7

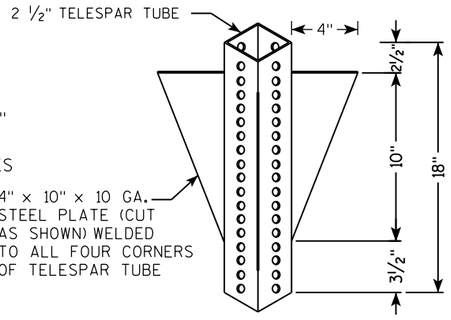
7

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

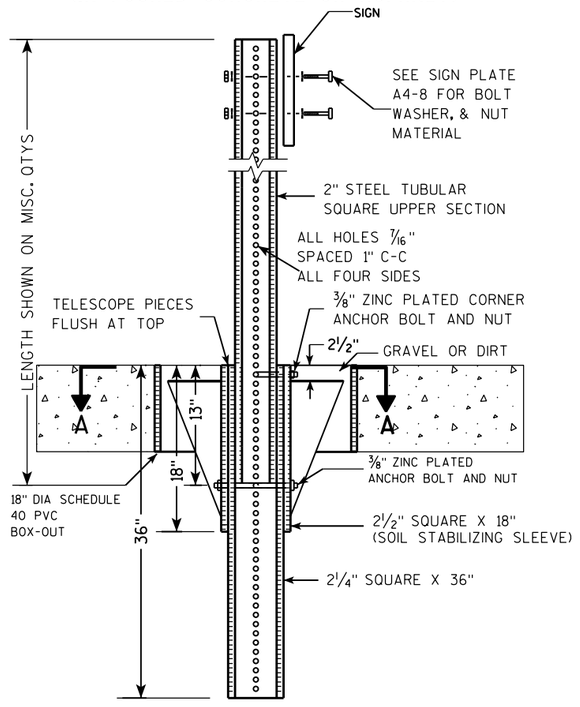
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



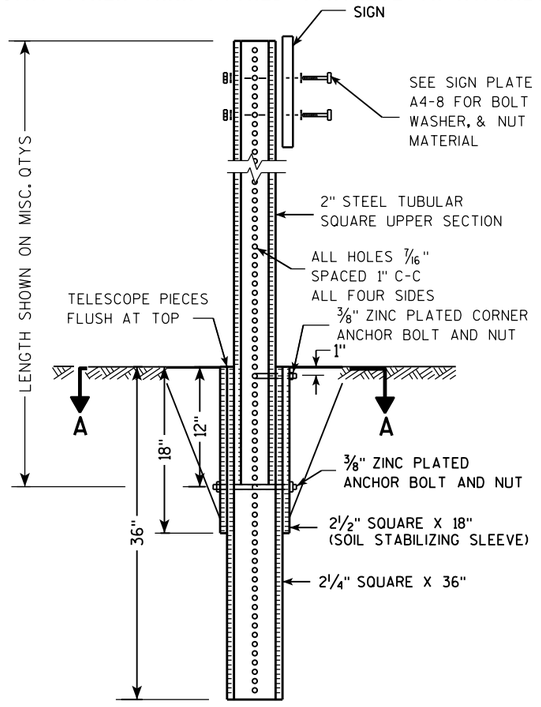
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

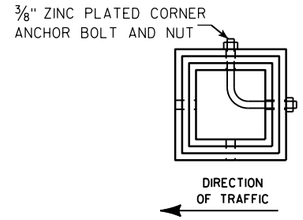


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

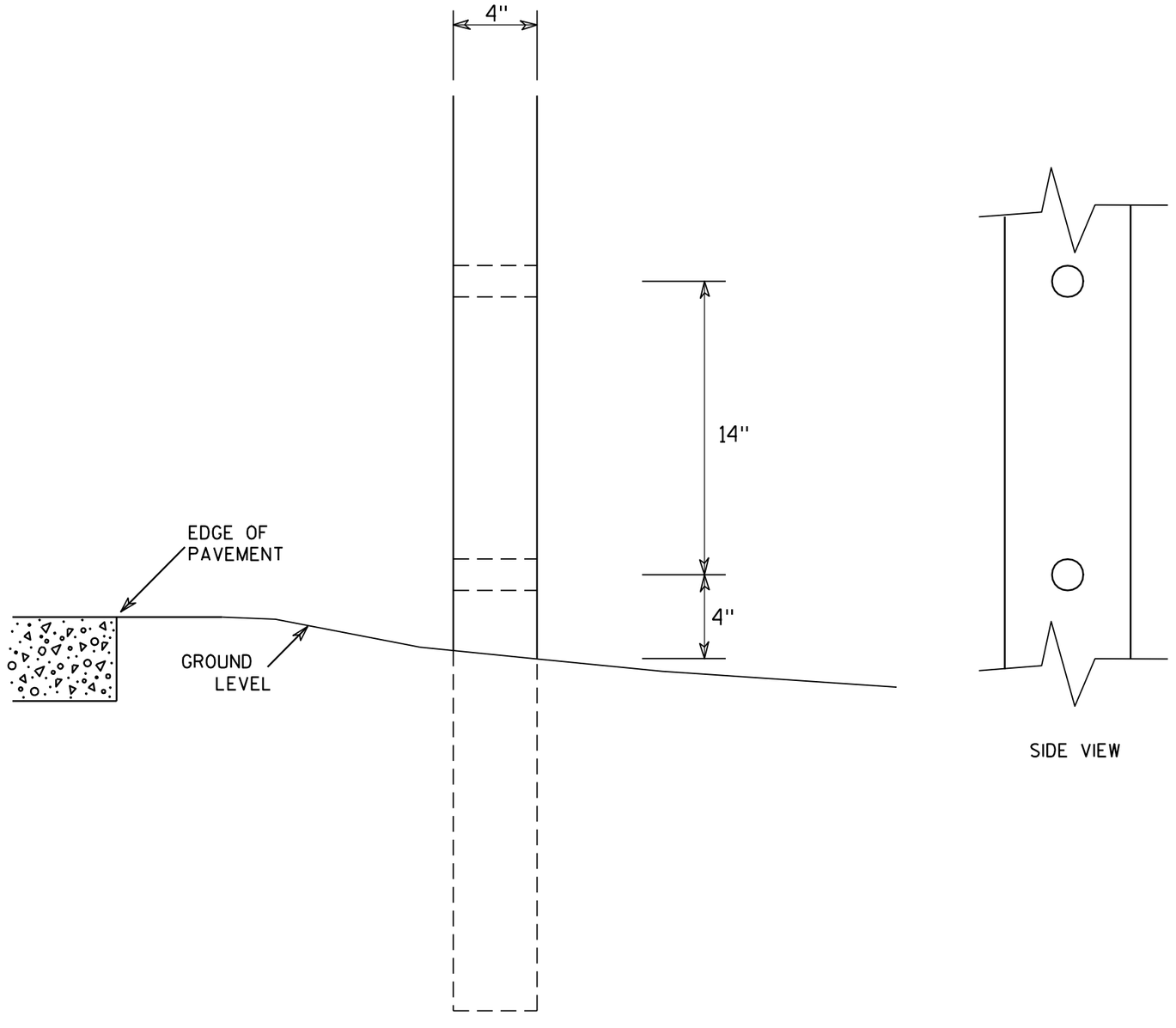
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 265 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

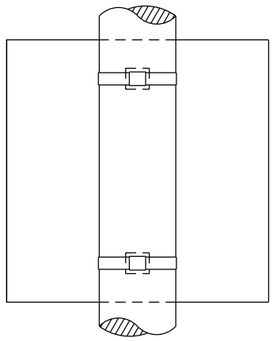
APPROVED Chester J Spang for State Traffic Engineer

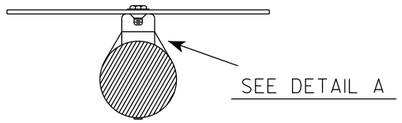
DATE 3/27/97 PLATE NO. A4-11.2

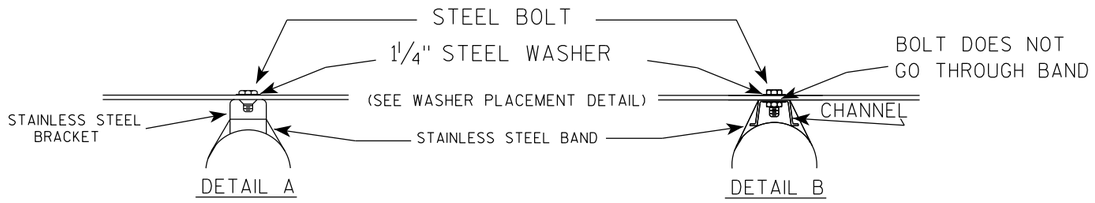
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 266	E

BANDING

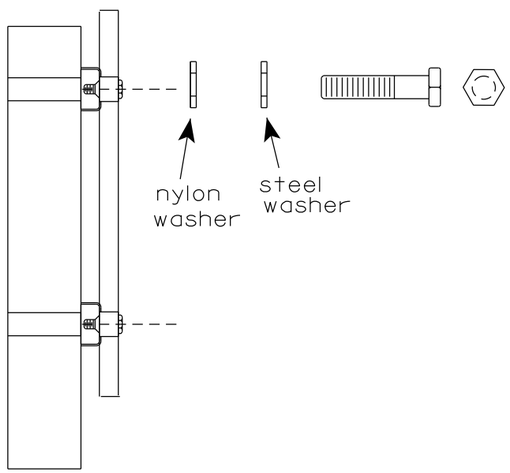
SINGLE SIGN







WASHER PLACEMENT

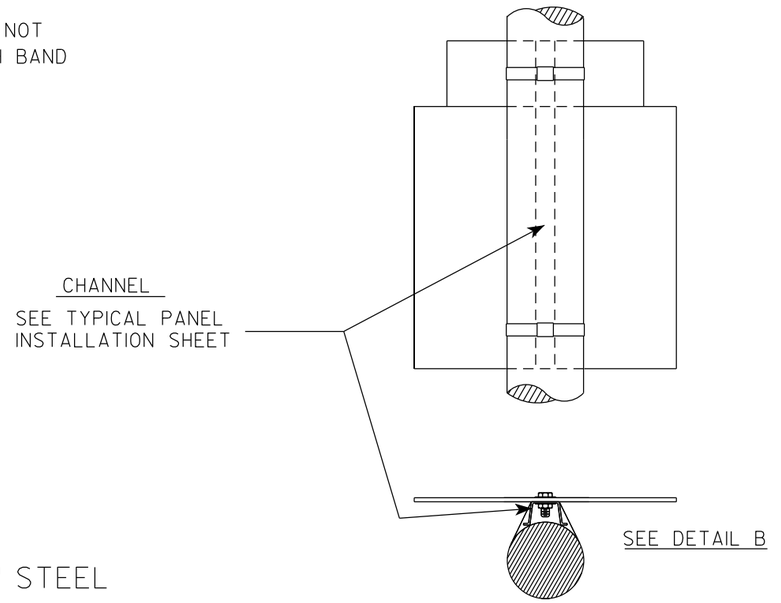


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

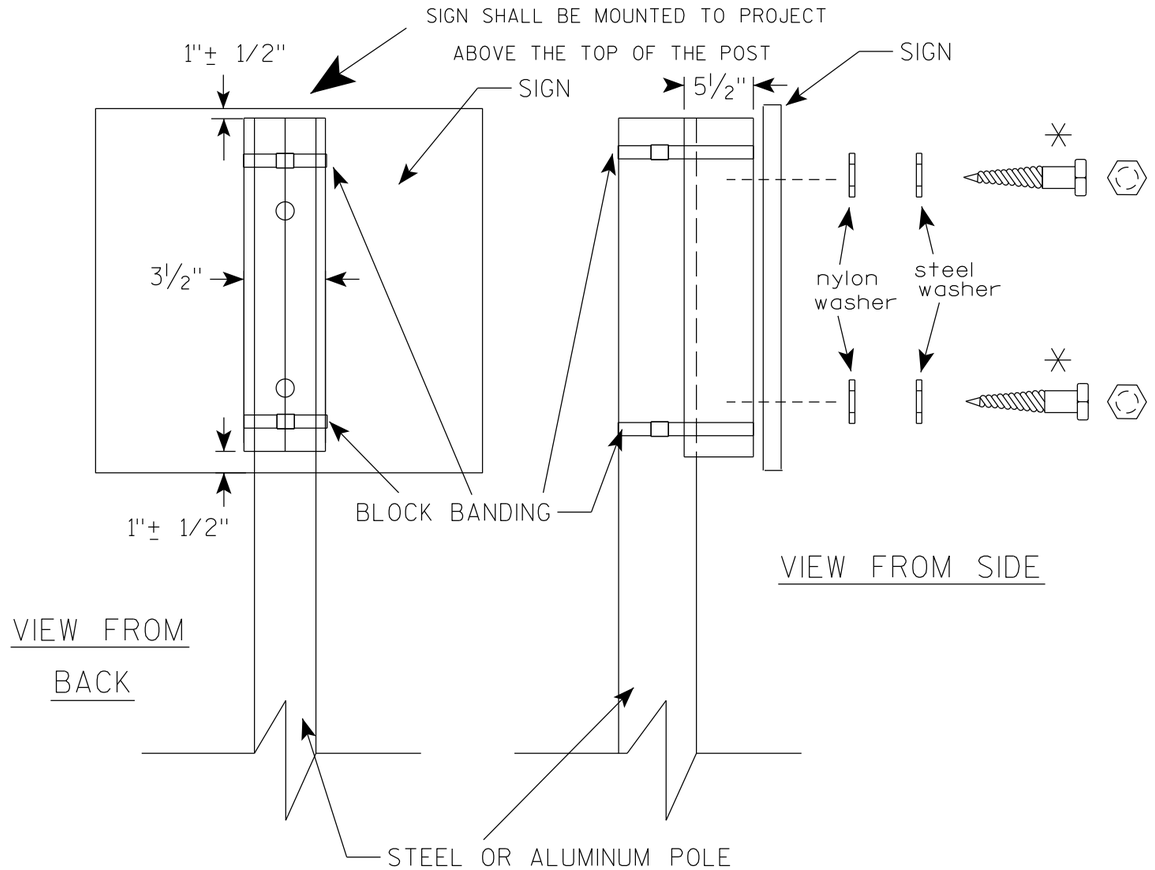
DATE 6/10/19 PLATE NO. A5-9.4

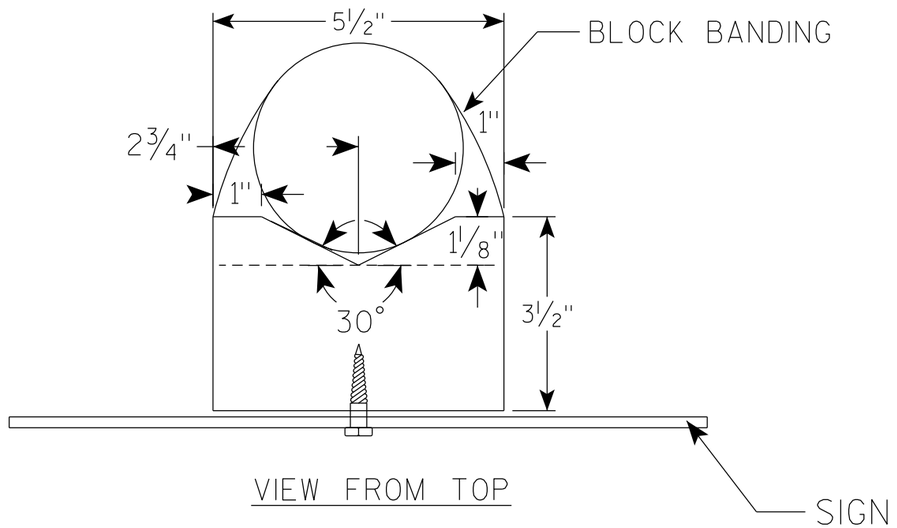
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 267	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

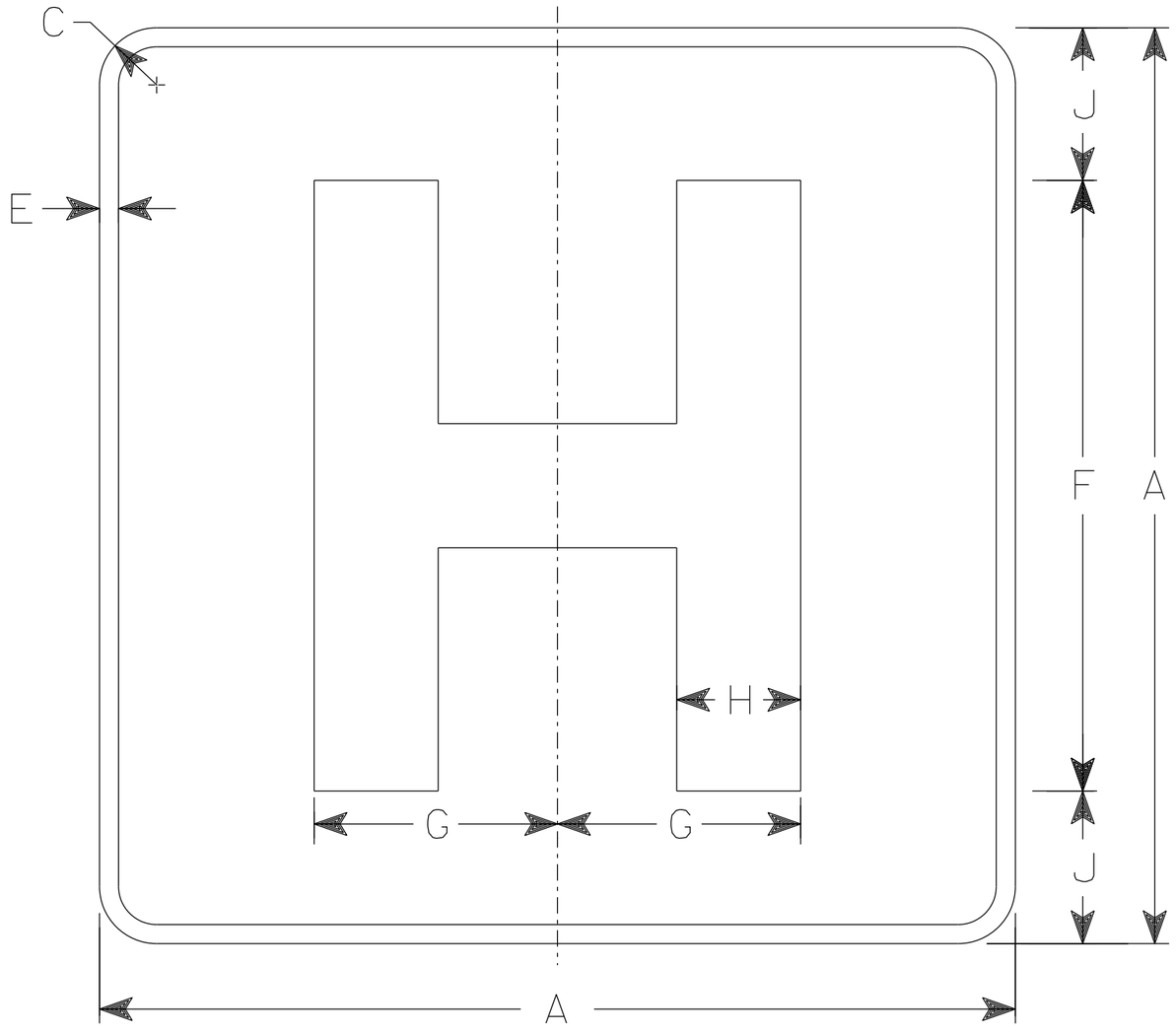
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:

SHEET NO: 268 E



D9-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
3. Message Series - E Modified
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8		1/2	12	4 3/4	2 3/8		3																	2.25
2S	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
2M	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

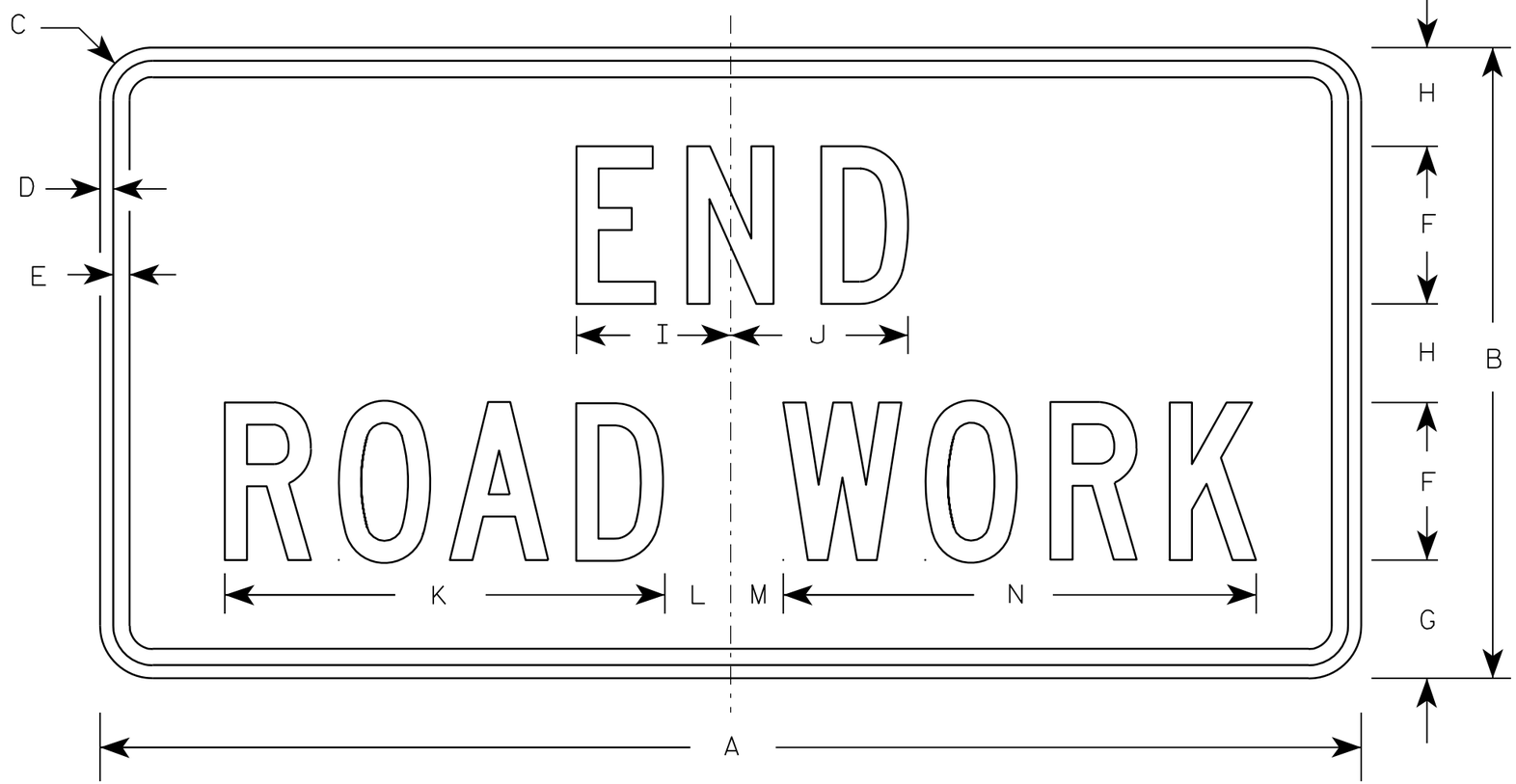
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/28/21 PLATE NO. D9-2.5

PROJECT NO:

SHEET NO: 269 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

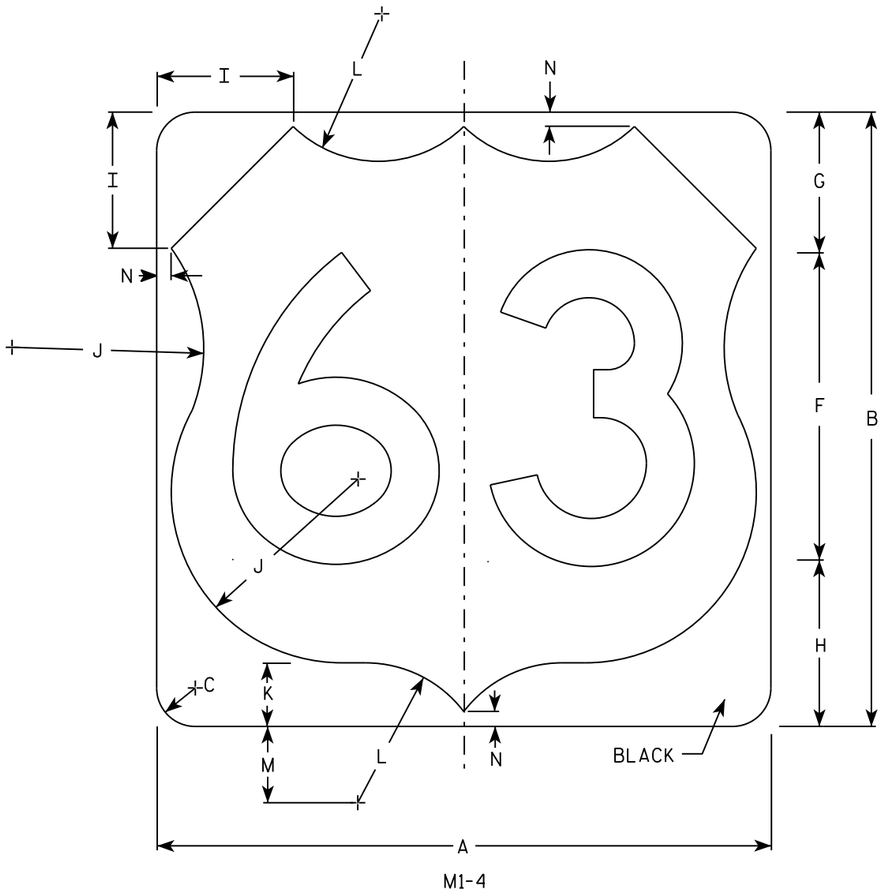
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

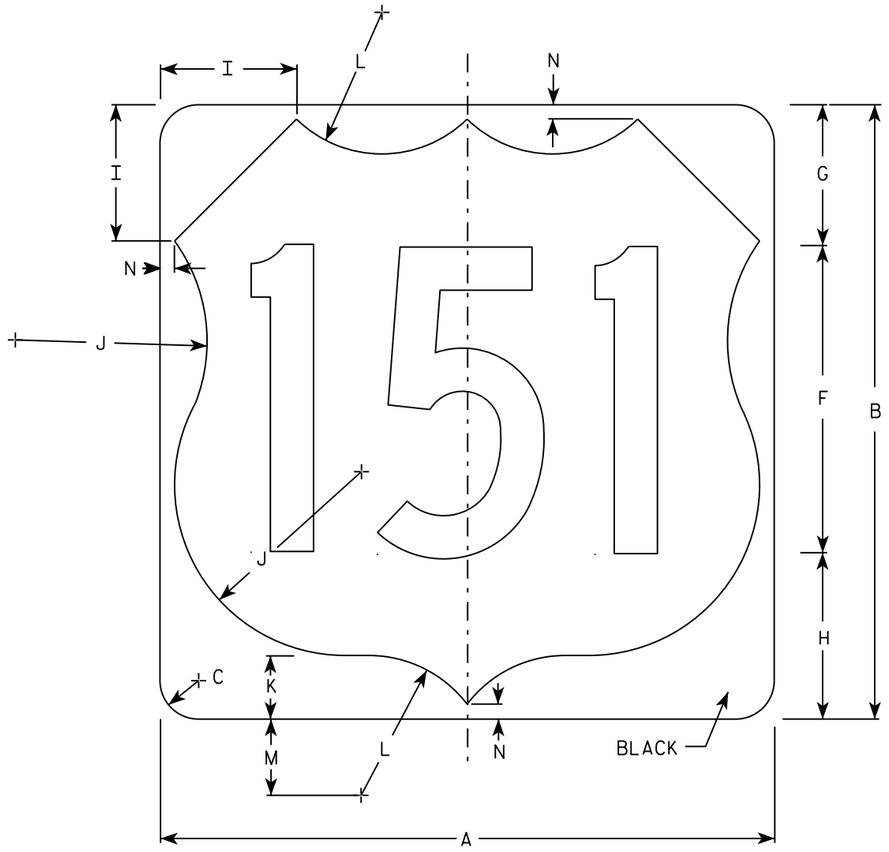
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 270	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M1-4



M1-4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. ft.
1																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

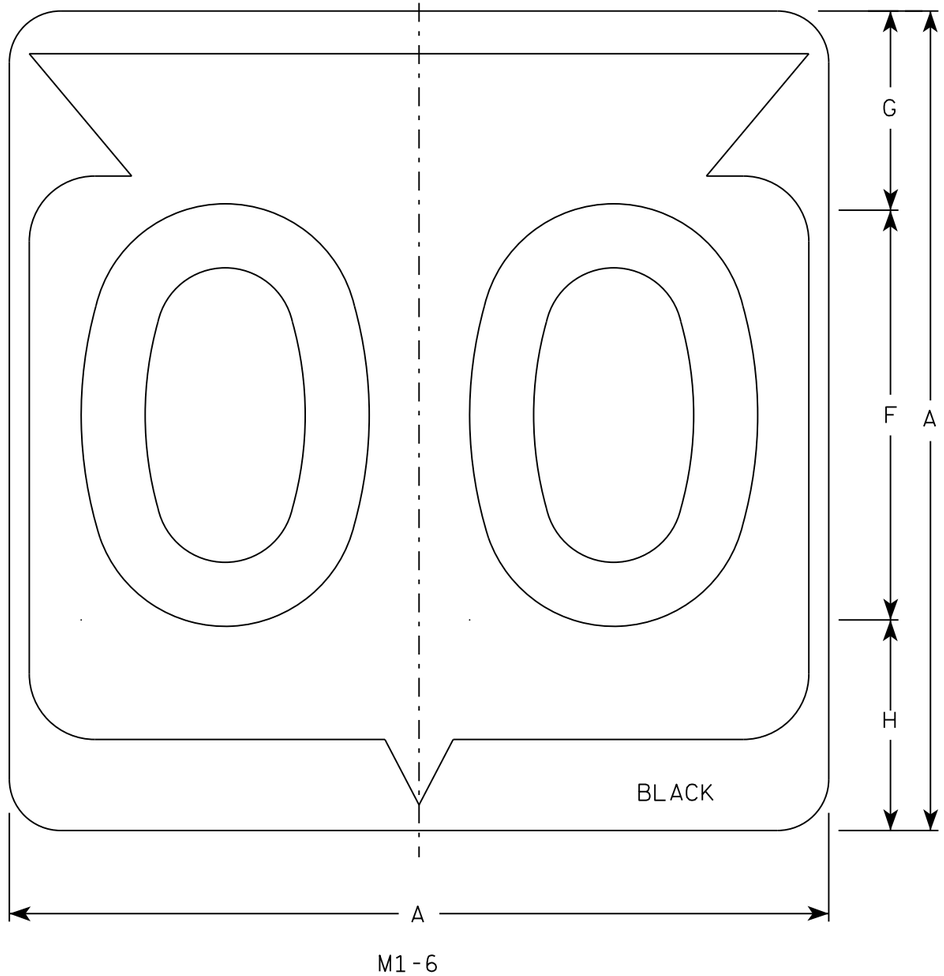
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-4.10

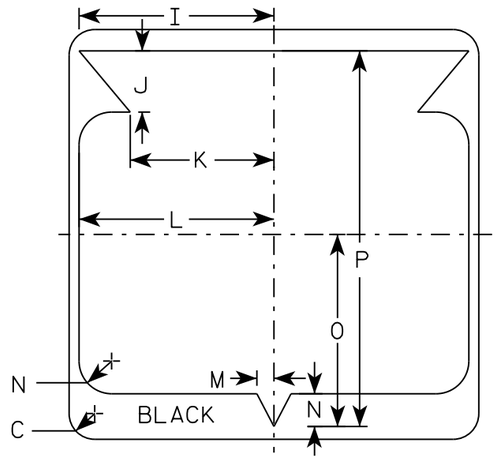
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 271 | E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

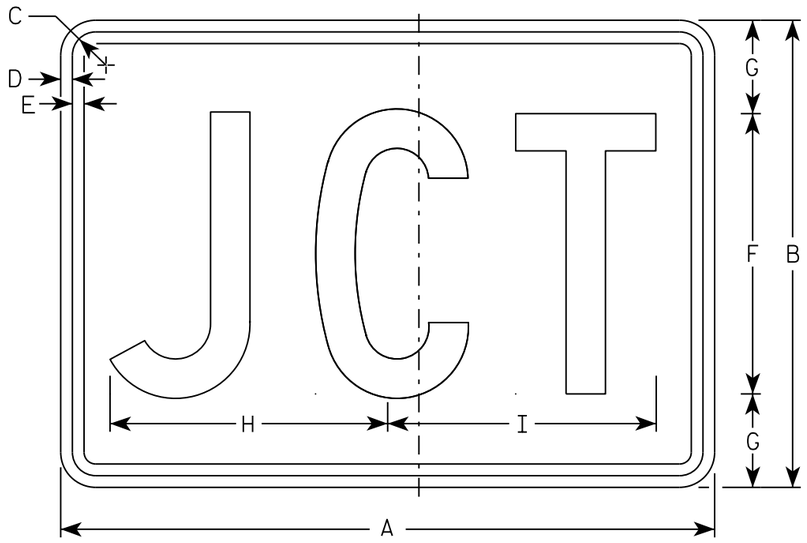
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

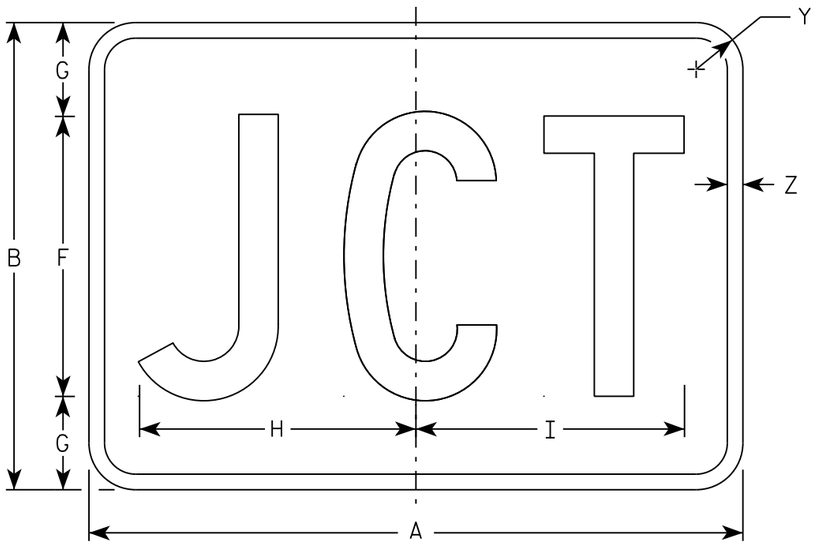
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 272	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

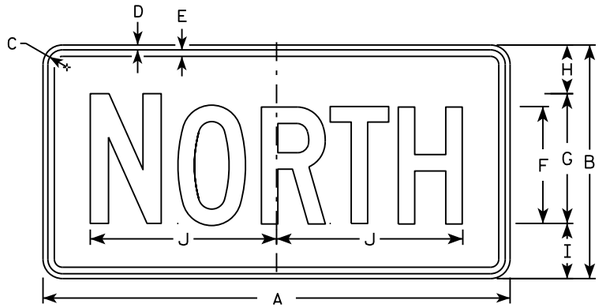
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

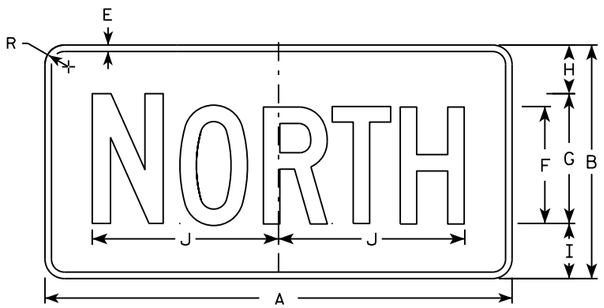
DATE 10/15/15 PLATE 273 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



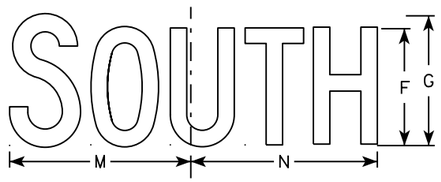
M3-1
MM3-1
MP3-1



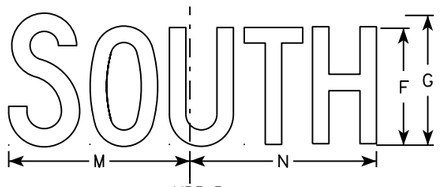
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

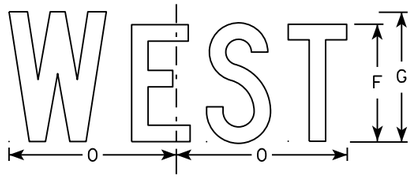
MB3-2
MK3-2
MN3-2



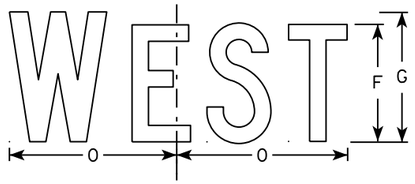
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

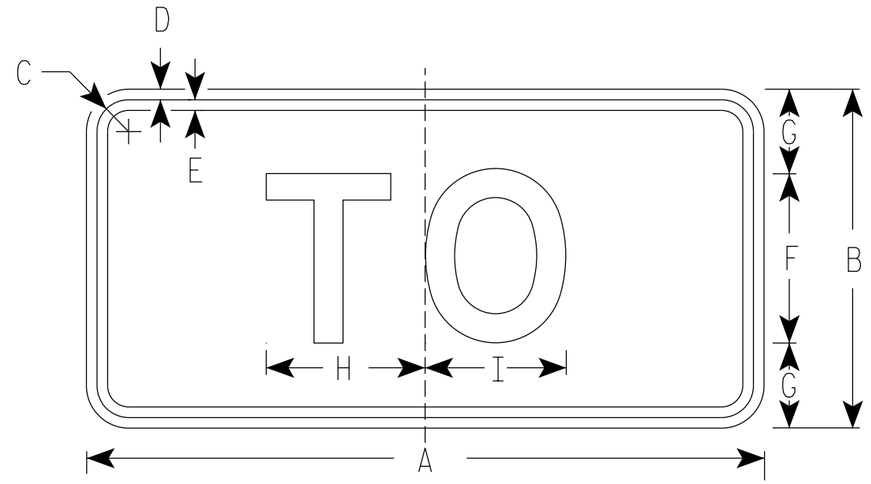
APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

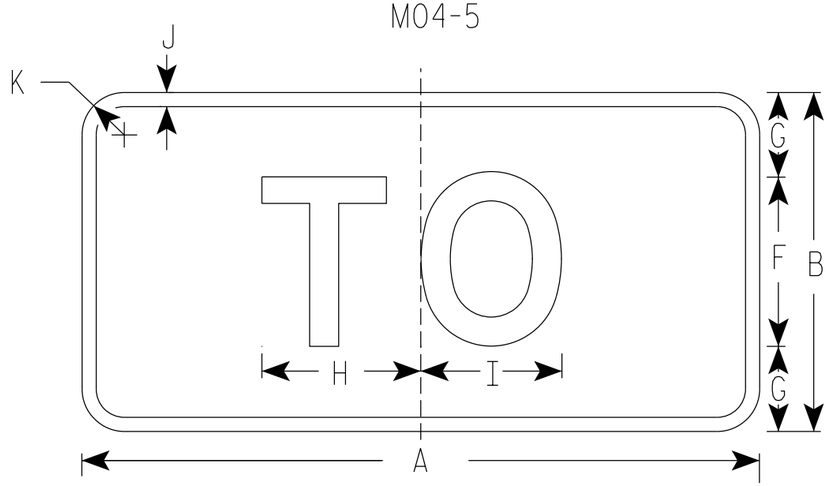
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000

7



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

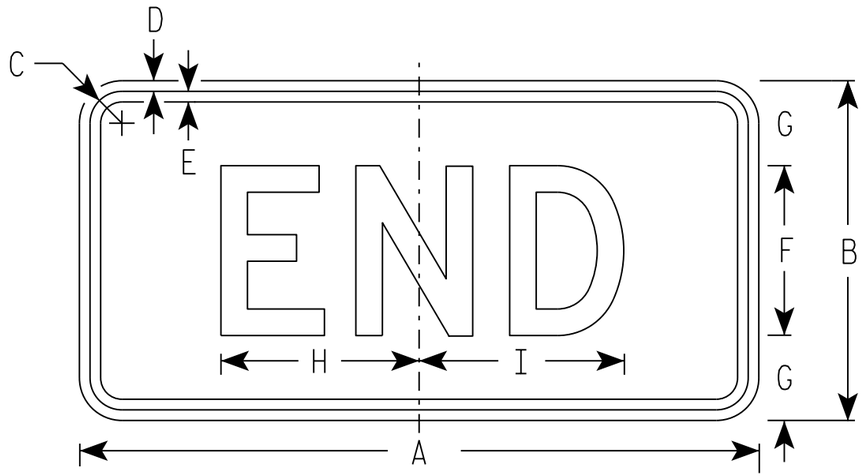
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

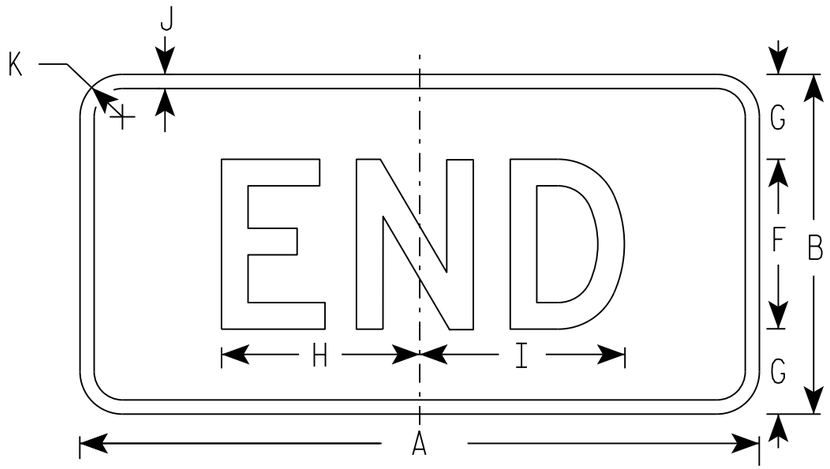
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 275 | E



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-6 Background - White
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

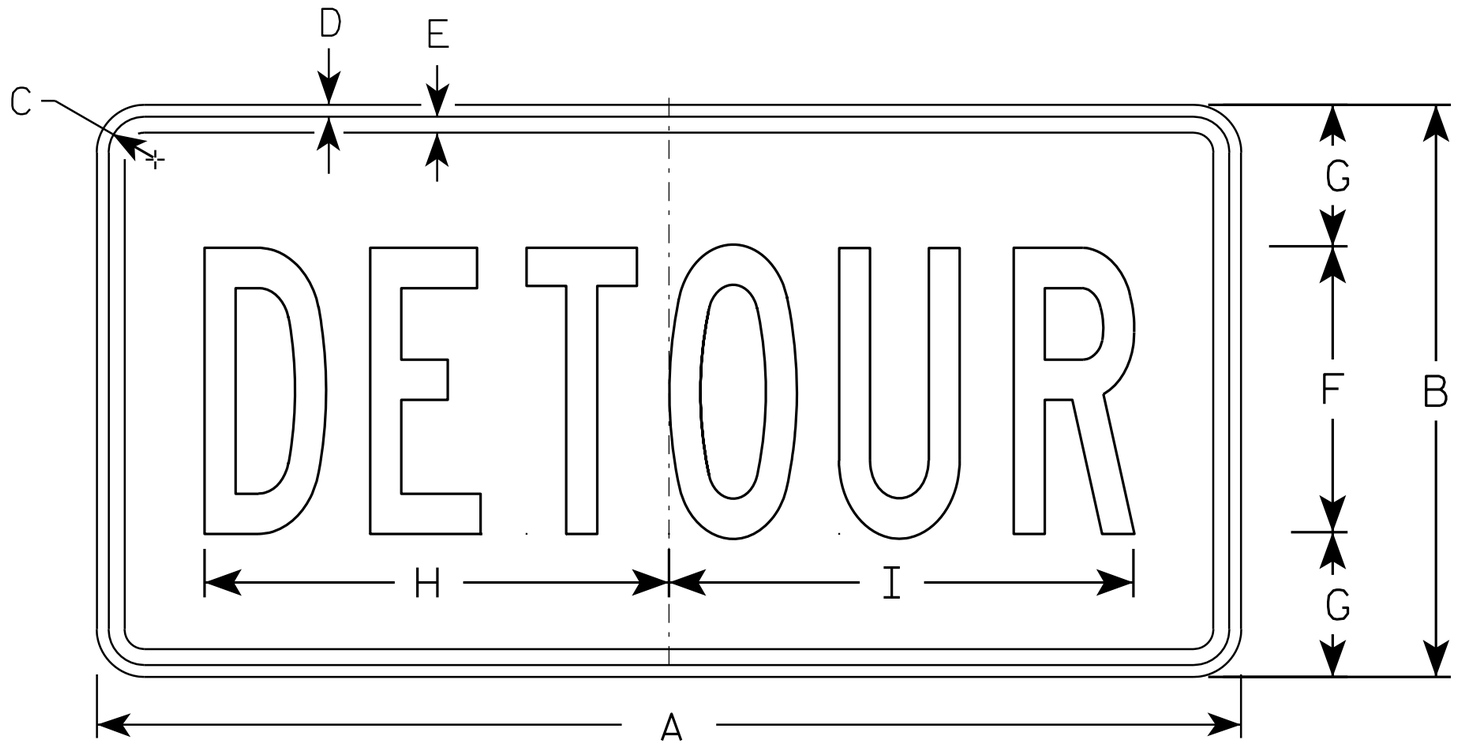
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 276 '14-7.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M46.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

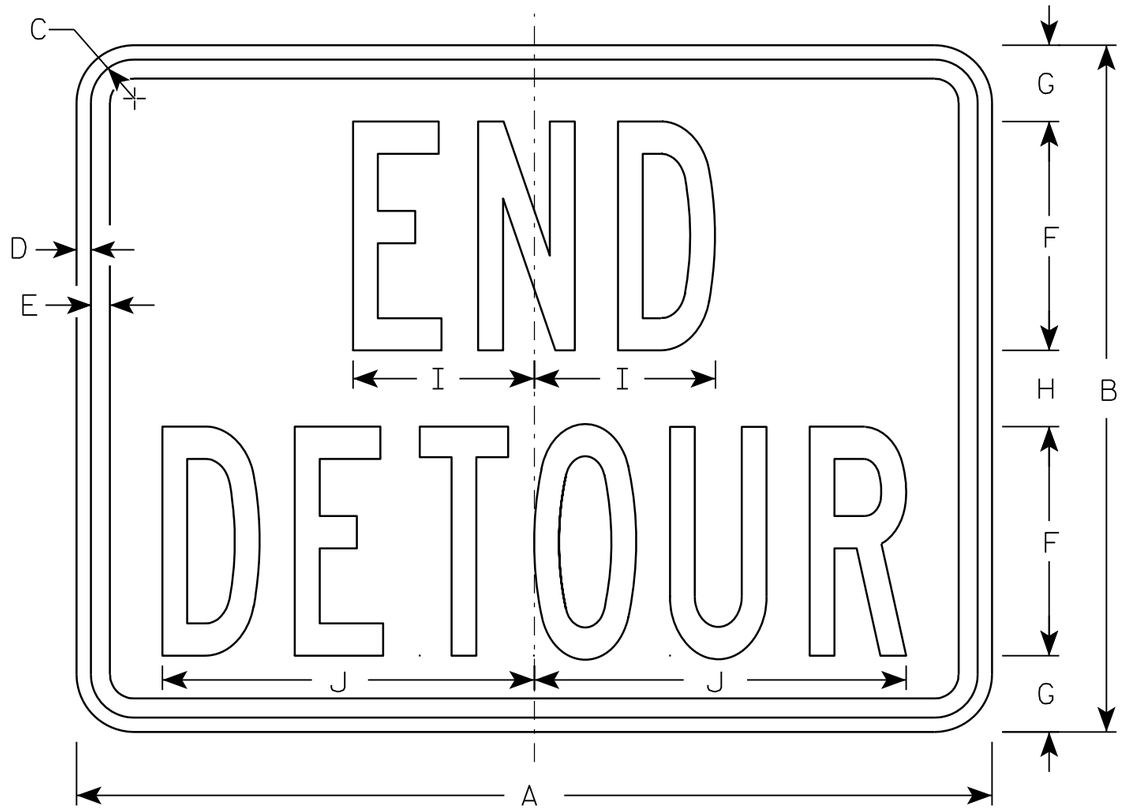
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 277	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48.DGN PLOT DATE : 10-NOV-2010 13:18 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.767233:1.000000

WISDOT/CADDS SHEET 42

7

7



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

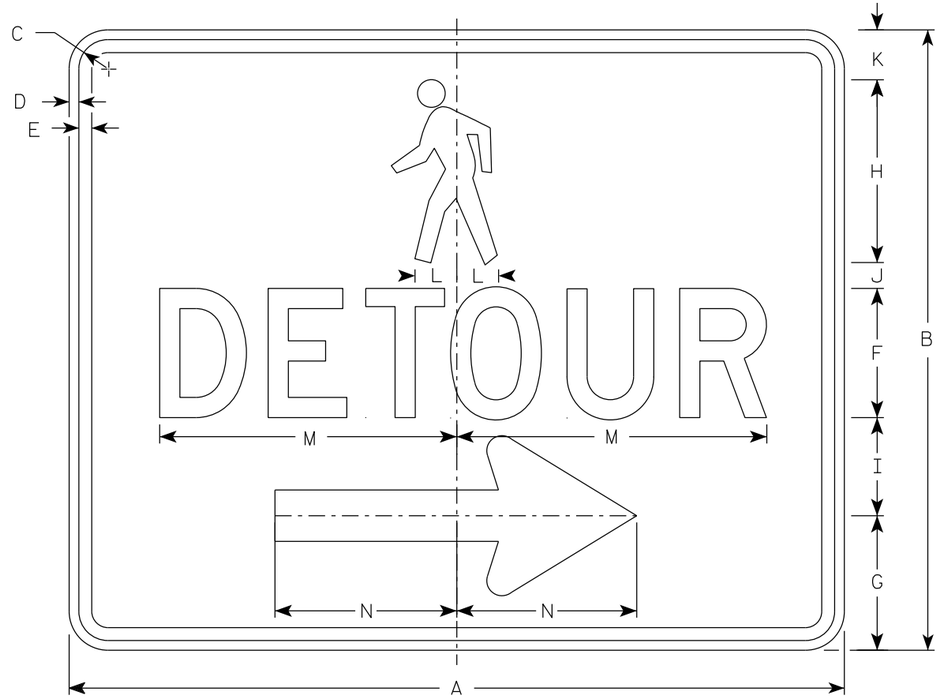
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

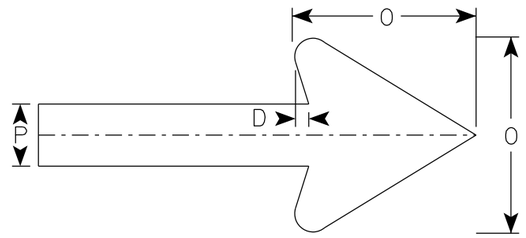
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 278	E



M4-9BR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

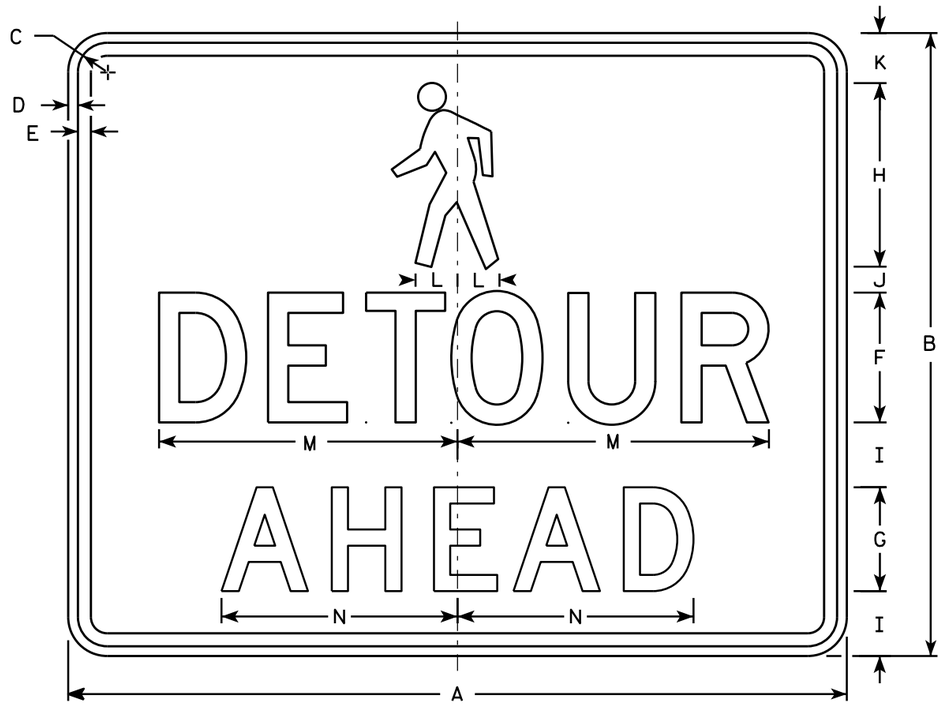
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/1/19 PLATE NO. M4-9B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 279 | E



M4-9BA

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7 1/8	2 1/2	1	1 7/8	1 5/8	11 3/4	9 1/8													5.0
3																											
4																											
5																											

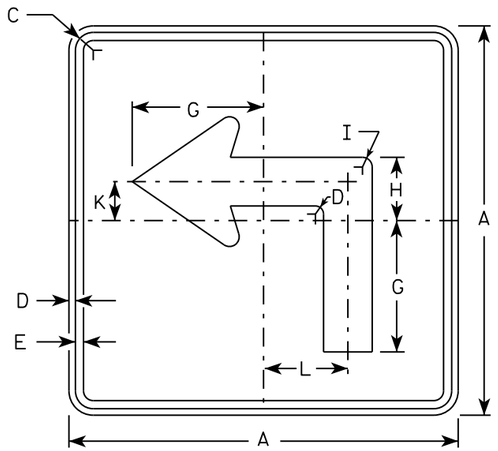
STANDARD SIGN
M4-9BA

WISCONSIN DEPT OF TRANSPORTATION

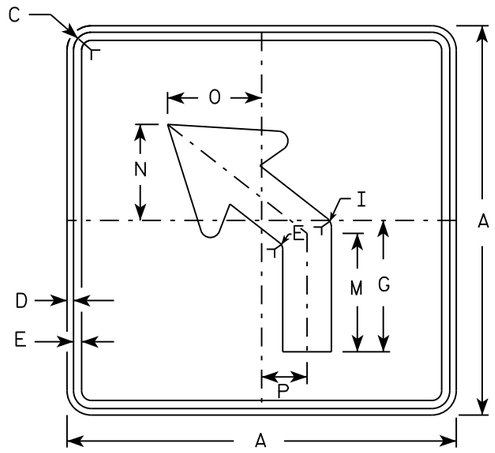
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/16 PLATE NO. M4-9BA.1

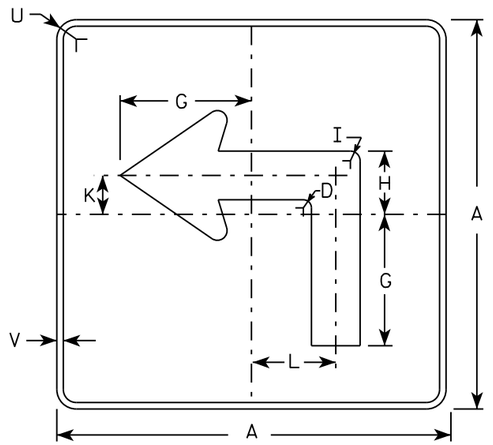
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



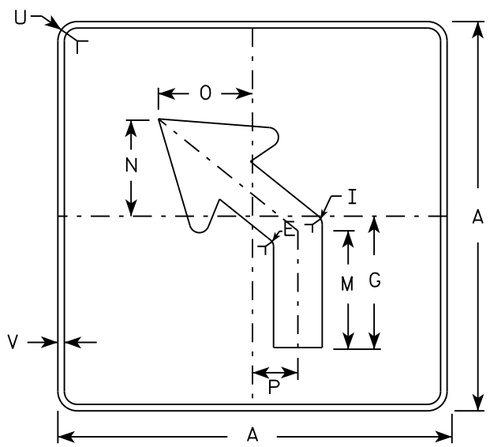
M5-1L
MM5-1L
MO5-1L
MP5-1L



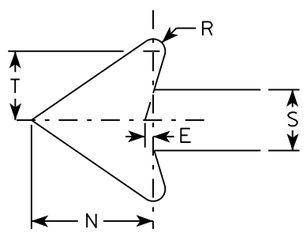
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

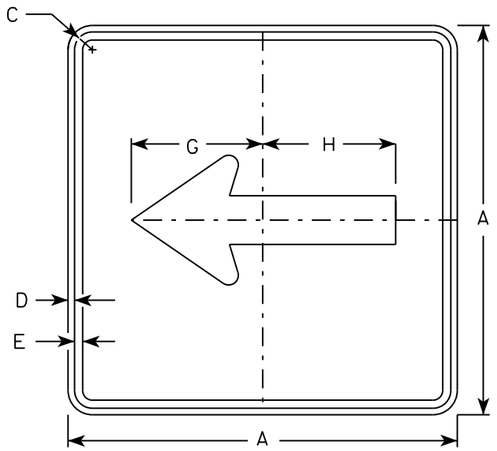
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

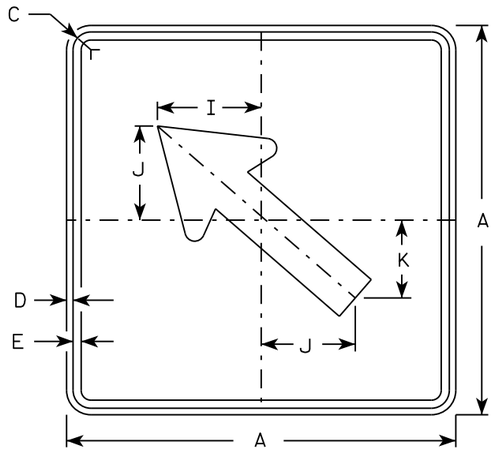
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



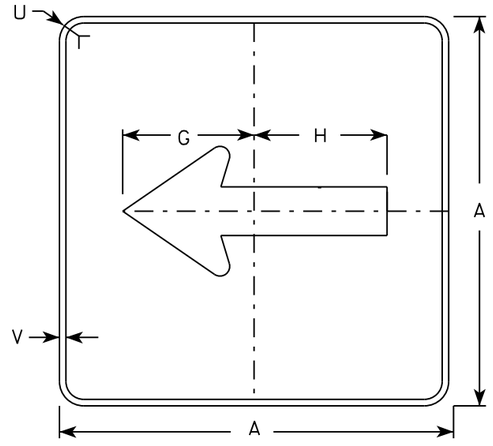
M6-1
MM6-1
MO6-1
MP6-1



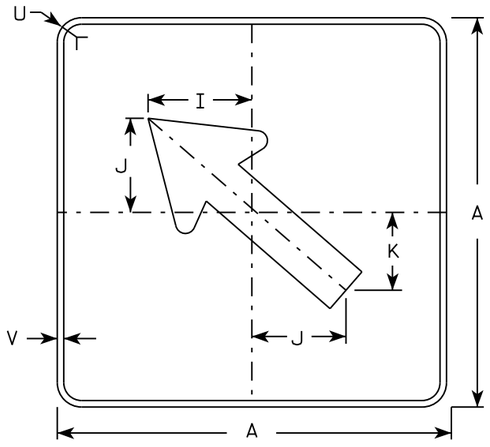
M6-2
MM6-2
MO6-2
MP6-2

NOTES

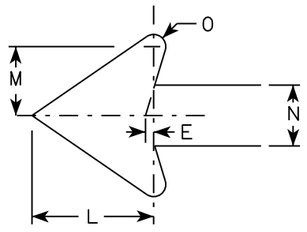
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

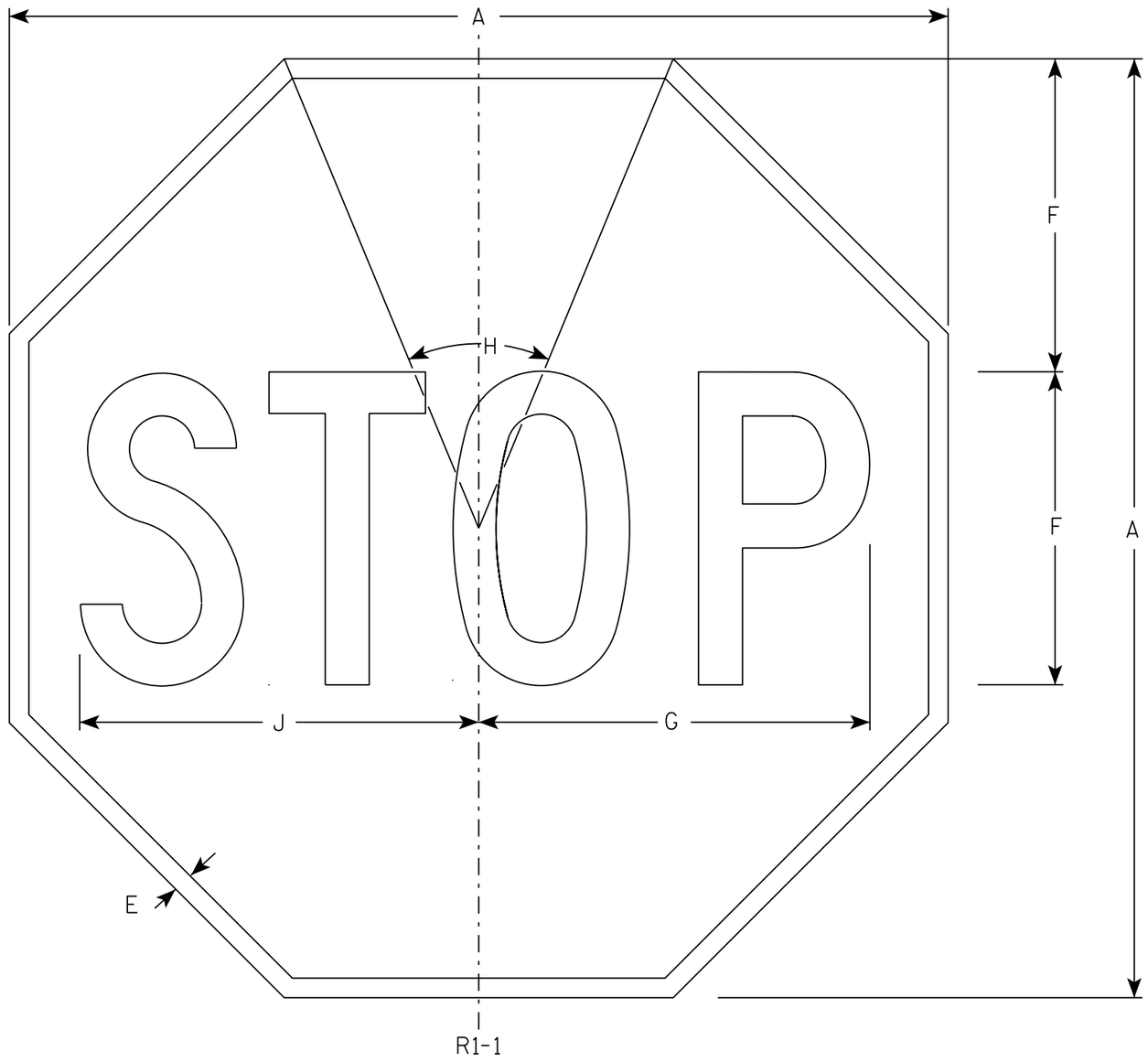
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATI 282 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

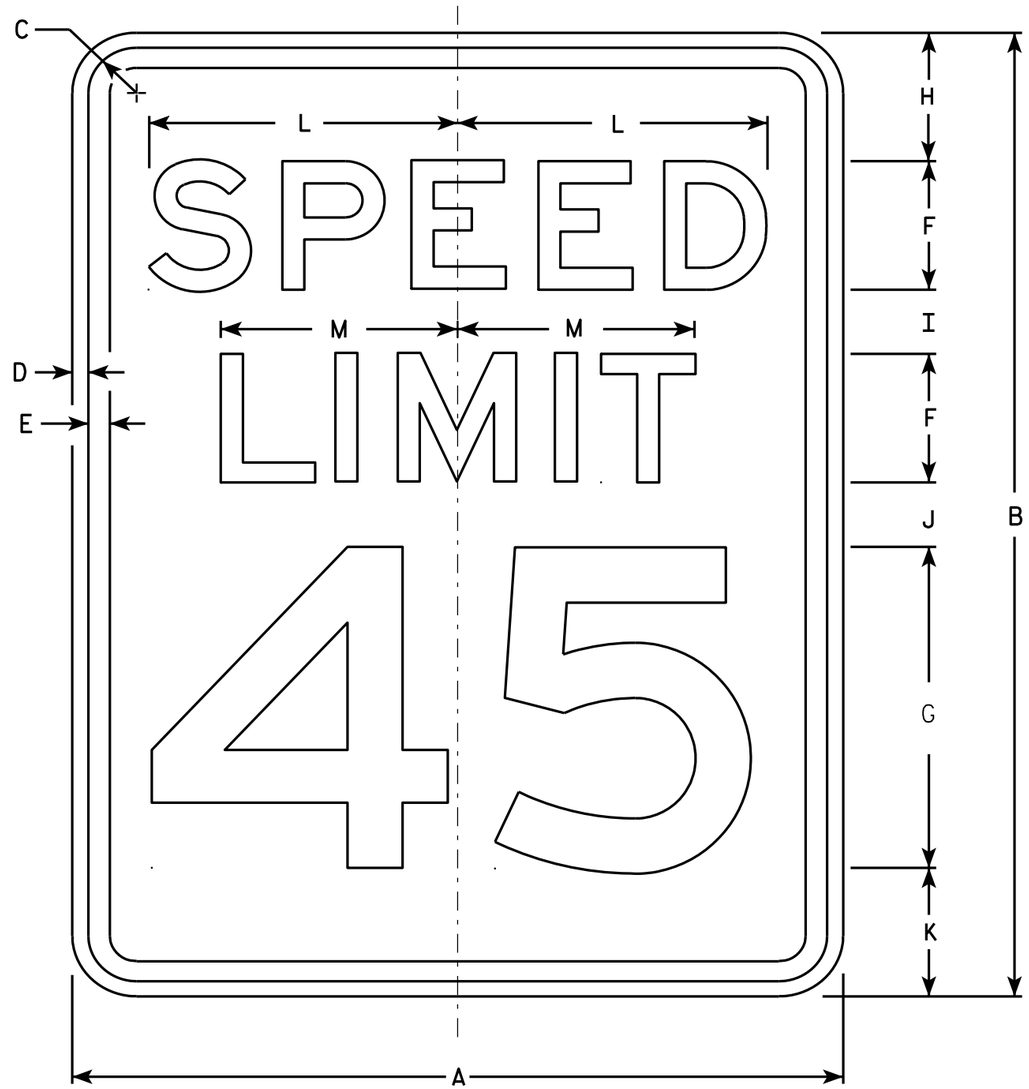
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 283	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

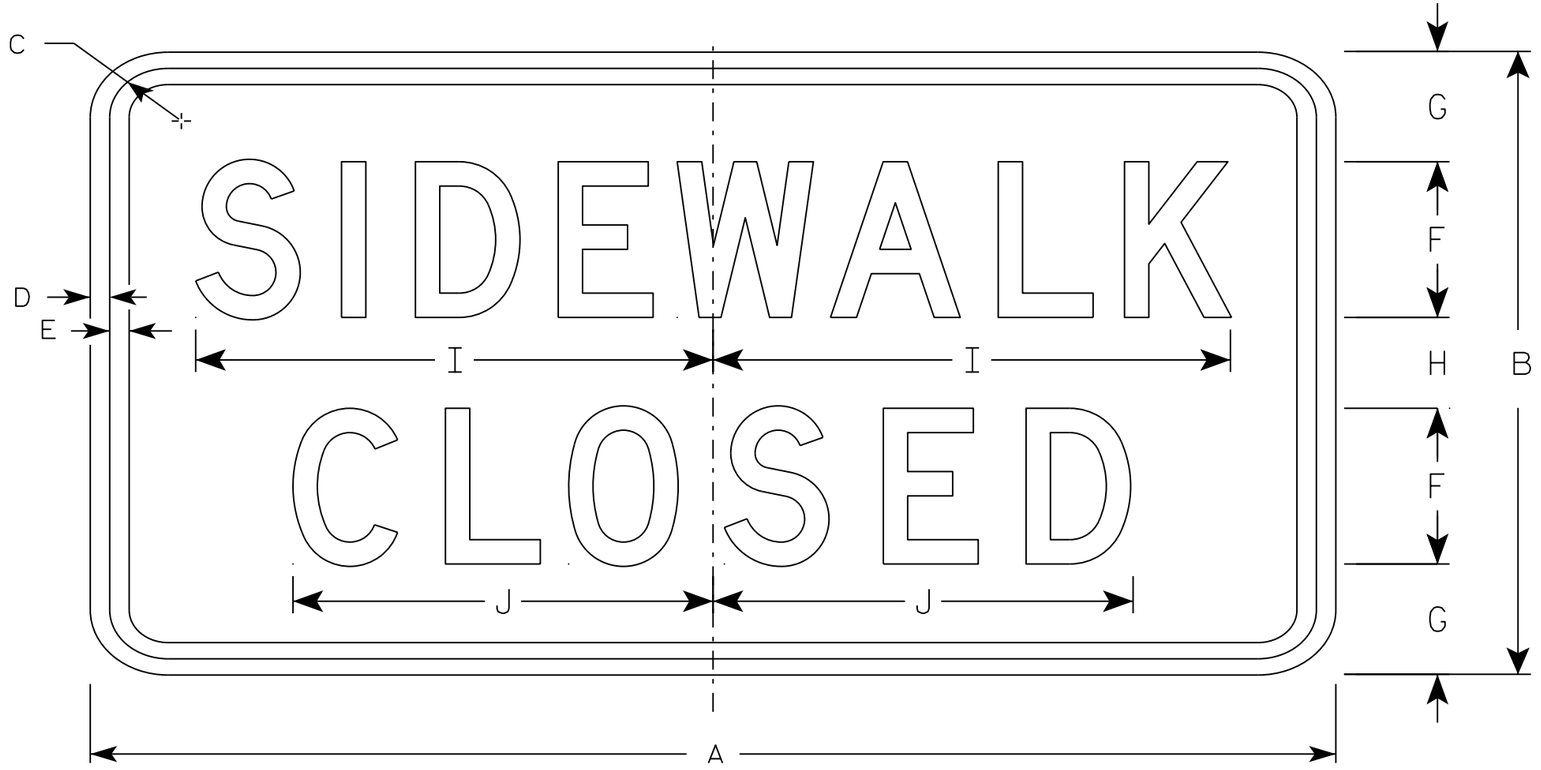
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 284	E



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

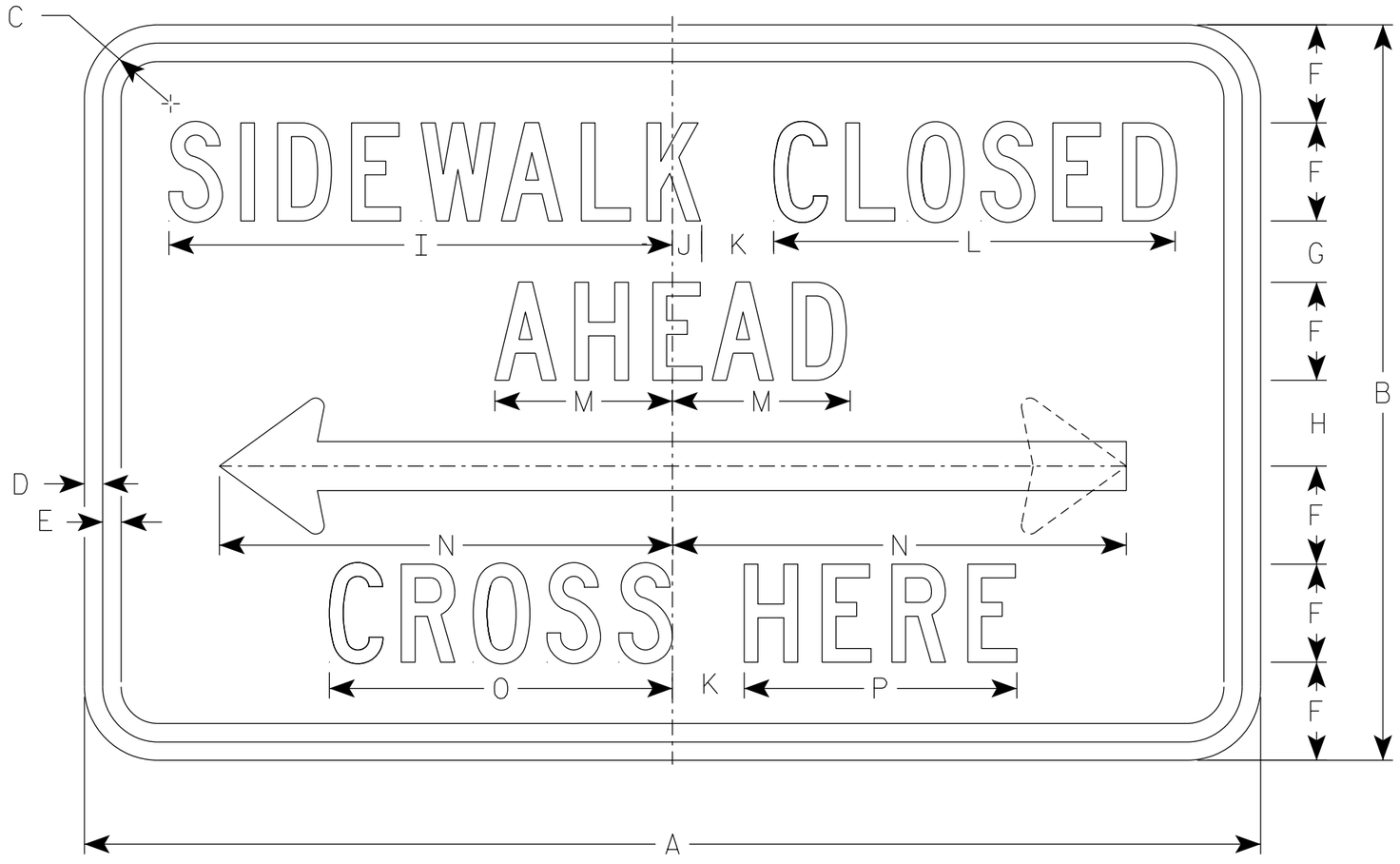
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

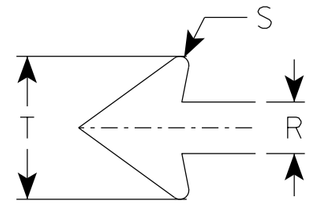
DATE 8/11/16 PLATE 285 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-11



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.
6. R9-11 D (double arrow)
   R9-11 L (left arrow)
   R9-11 R (right arrow)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 7/8	6 7/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

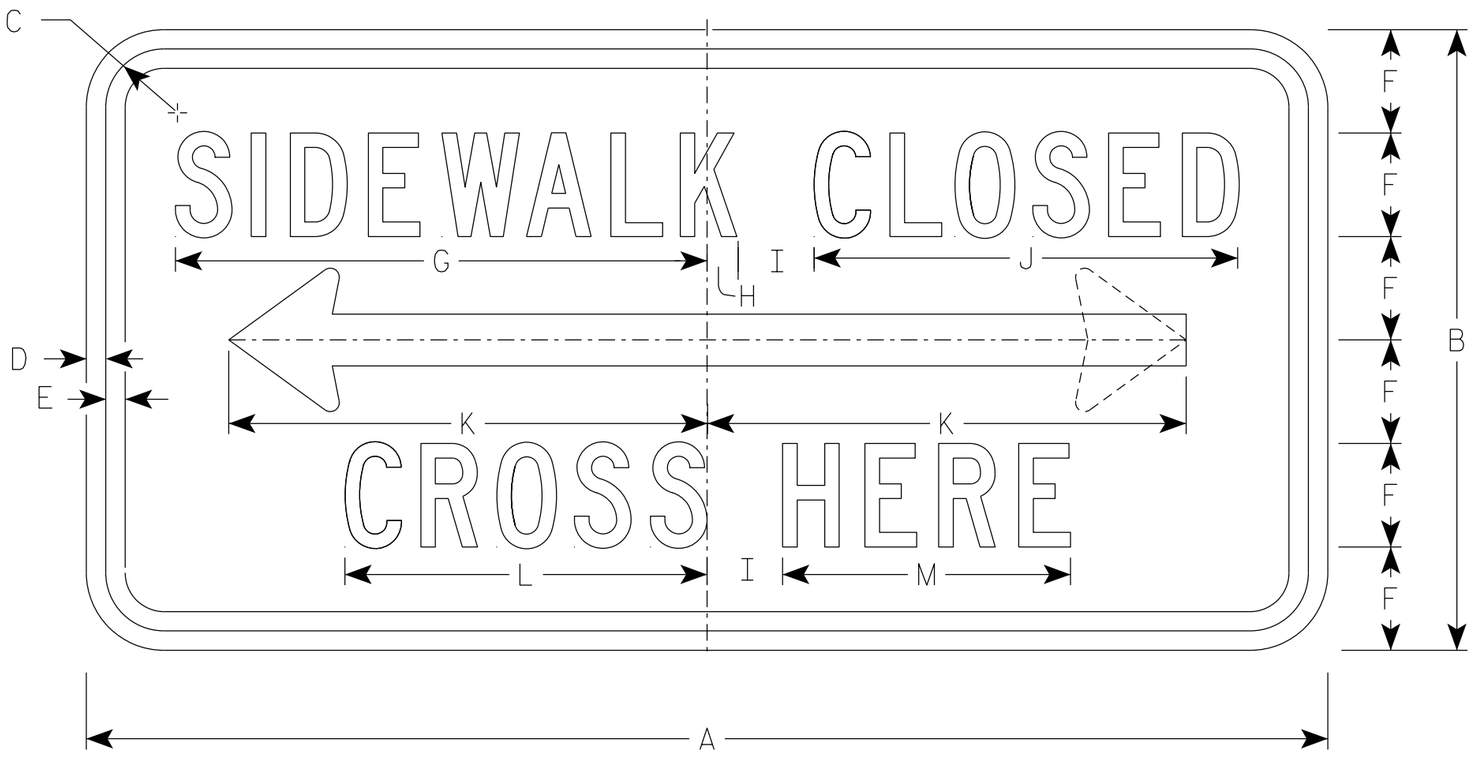
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/30/2021 PLATE NO. R9-11.4

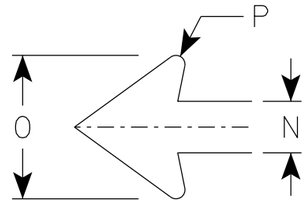
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 286 | E



R9-11A

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for paths and Trails.
6. R9-11AD (double arrow)
   R9-11AL (left arrow)
   R9-11AR (right arrow)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 5/8	1	2 3/4	1/8											2.0
2M	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 5/8	1	2 3/4	1/8											2.0
3	30	15	1 1/8	3/8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	8 5/8	6 3/4	1 1/4	3 5/8	1/4											3.125
4																											
5																											

STANDARD SIGN
R9-11A

WISCONSIN DEPT OF TRANSPORTATION

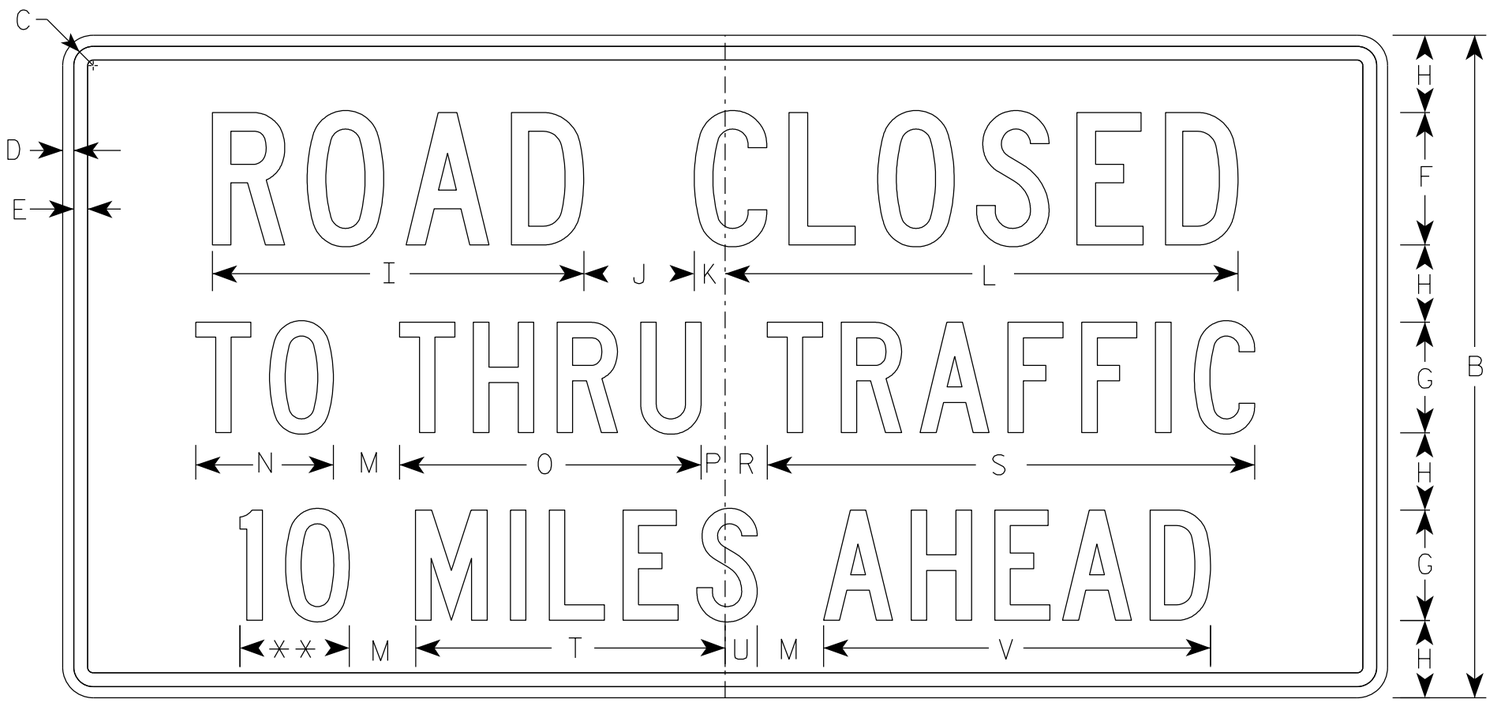
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R9-11A.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 287 | E

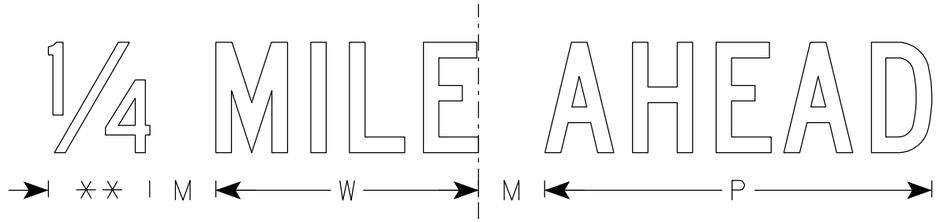
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



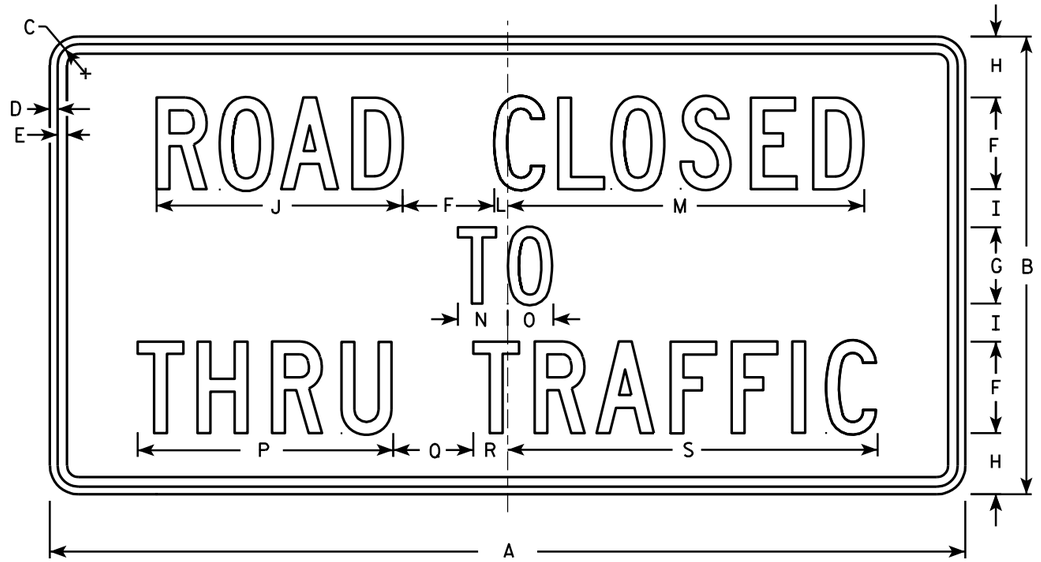
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 288	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

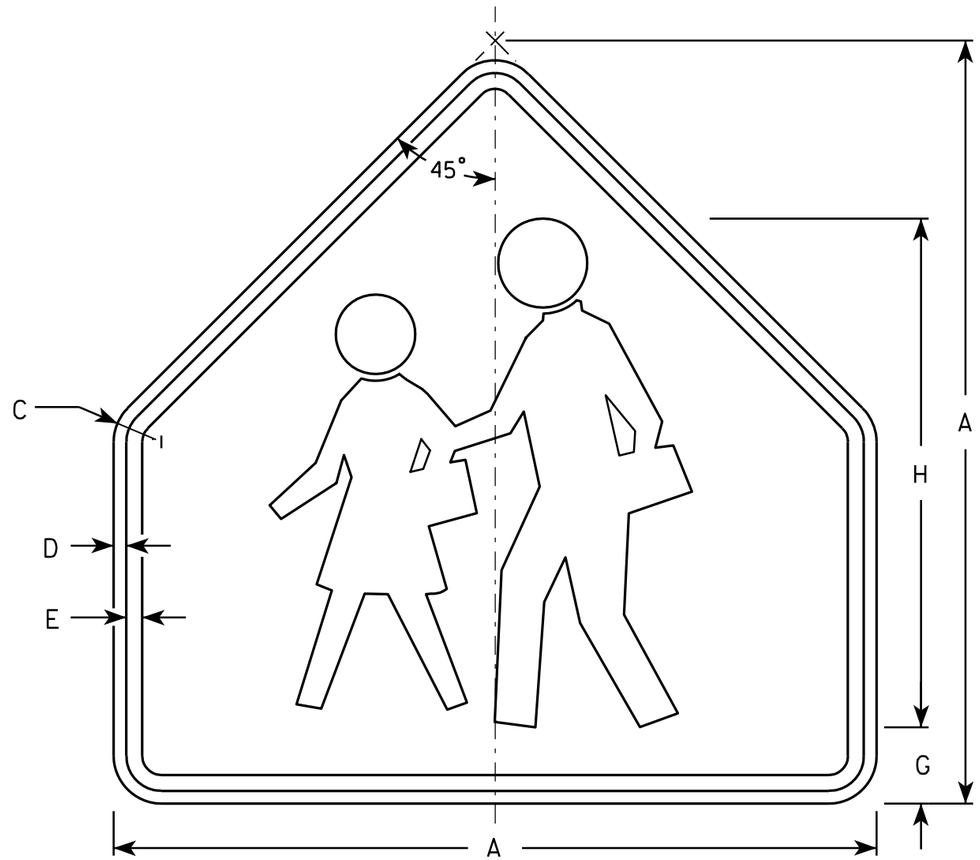
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 289 | E



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

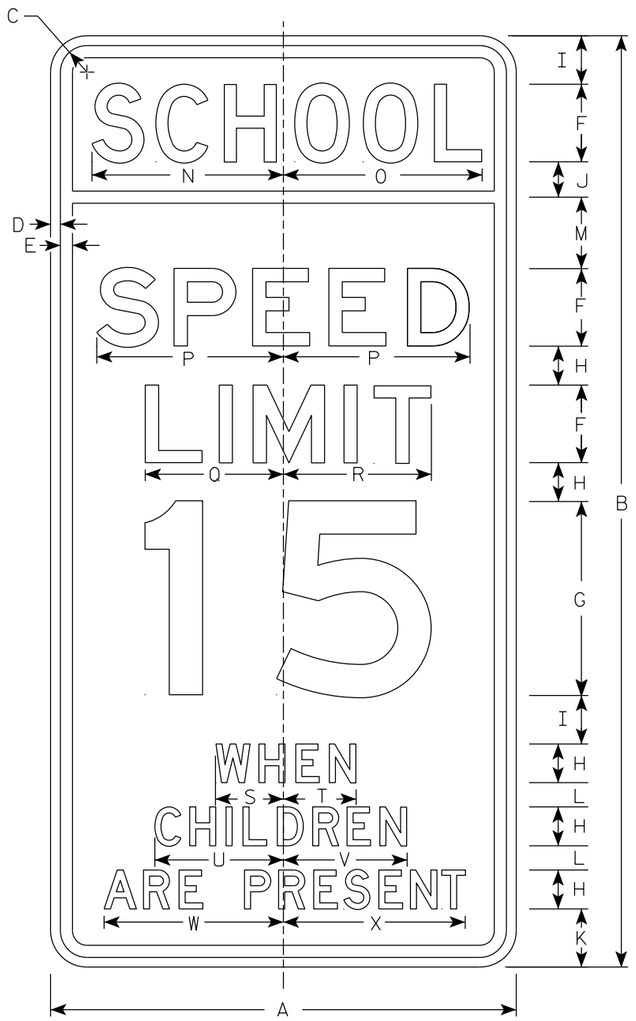
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 290	E



S4-51

NOTES

1. Sign is Type II - See Note 2 for Sheeting Type
2. Color:
   Background - See Note 4
   Message - Black
3. Message Series - See Note 5
4. Top panel (SCHOOL) background - Yellow Green - Type F Reflective
   Lower panel background - White - Type SH Reflective
5. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
6. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00
4																											
5																											

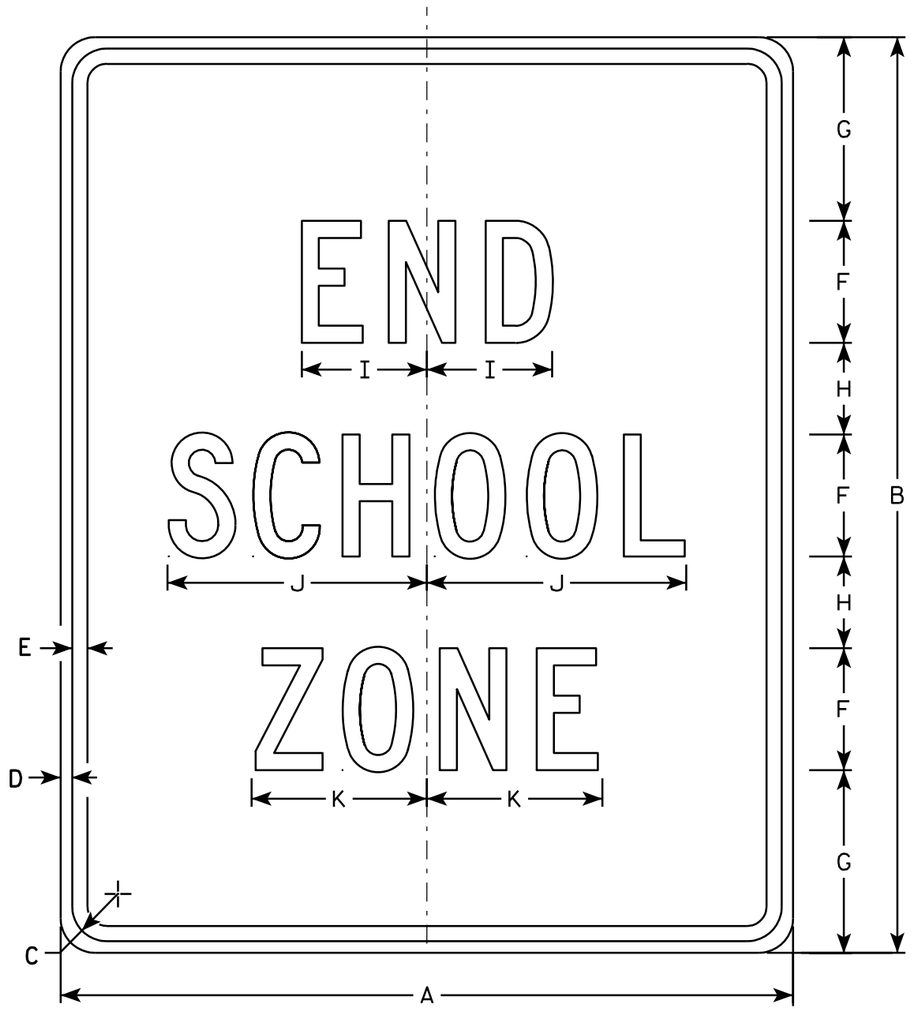
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/27/2020 PLATE NO. S4-51.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 291 E



S5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

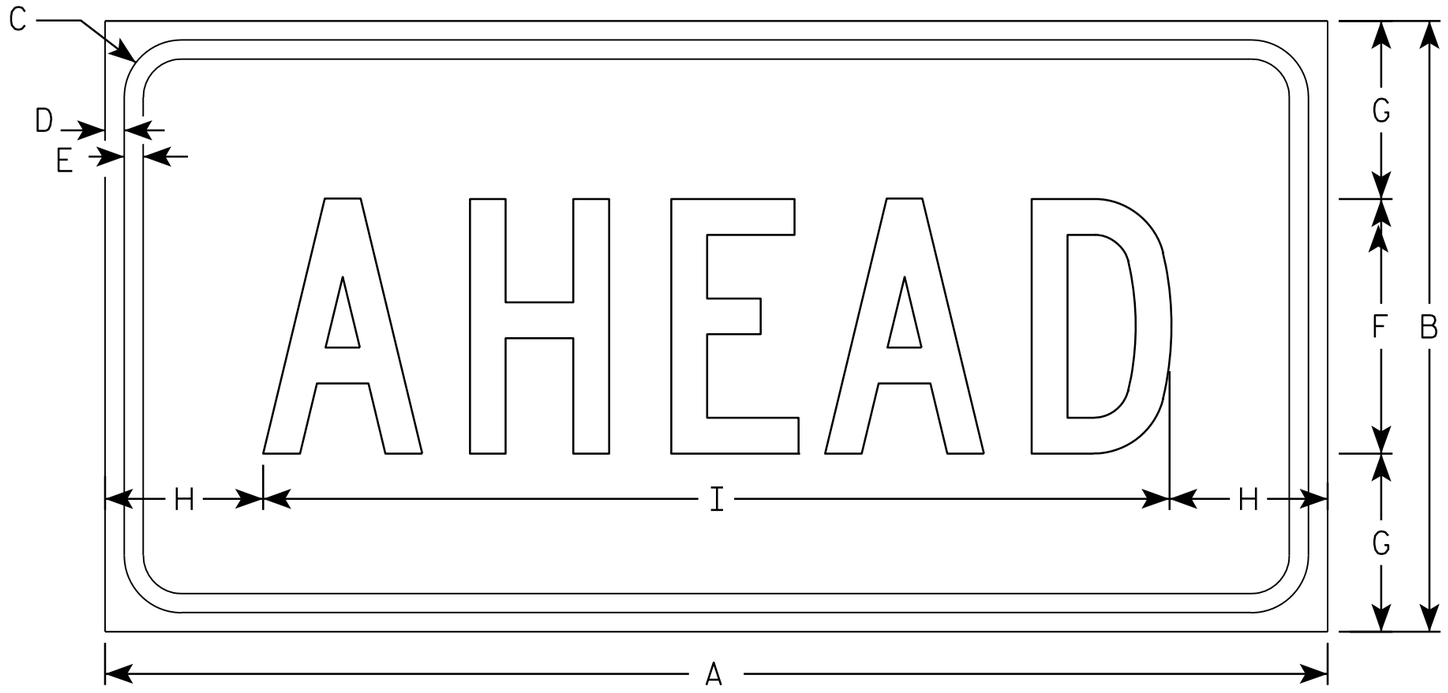
STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 292 | E



S16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

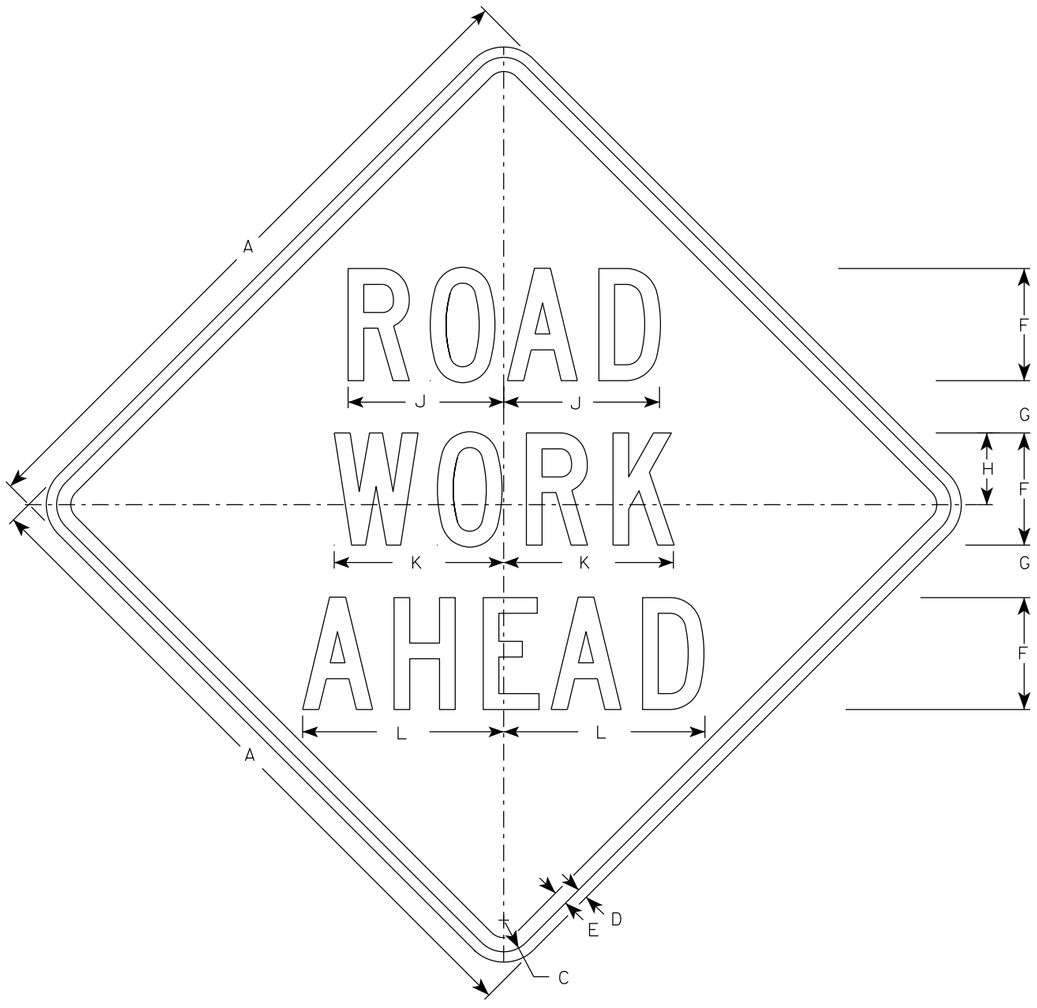
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

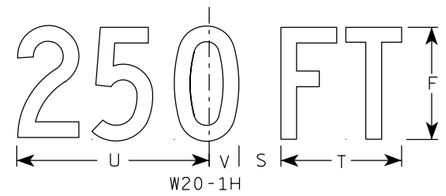
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 293 | E

NOTES

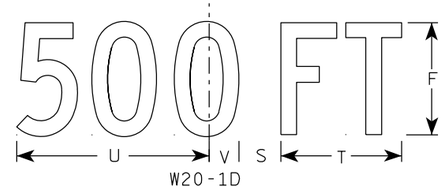
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A

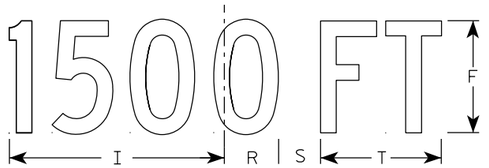


W20-1H

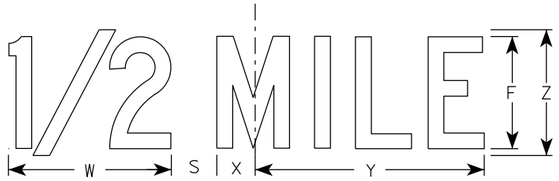


W20-1D

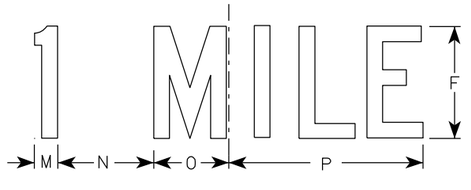
W20-1C



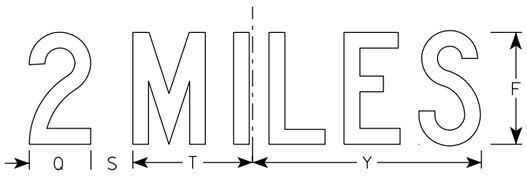
W20-1B



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

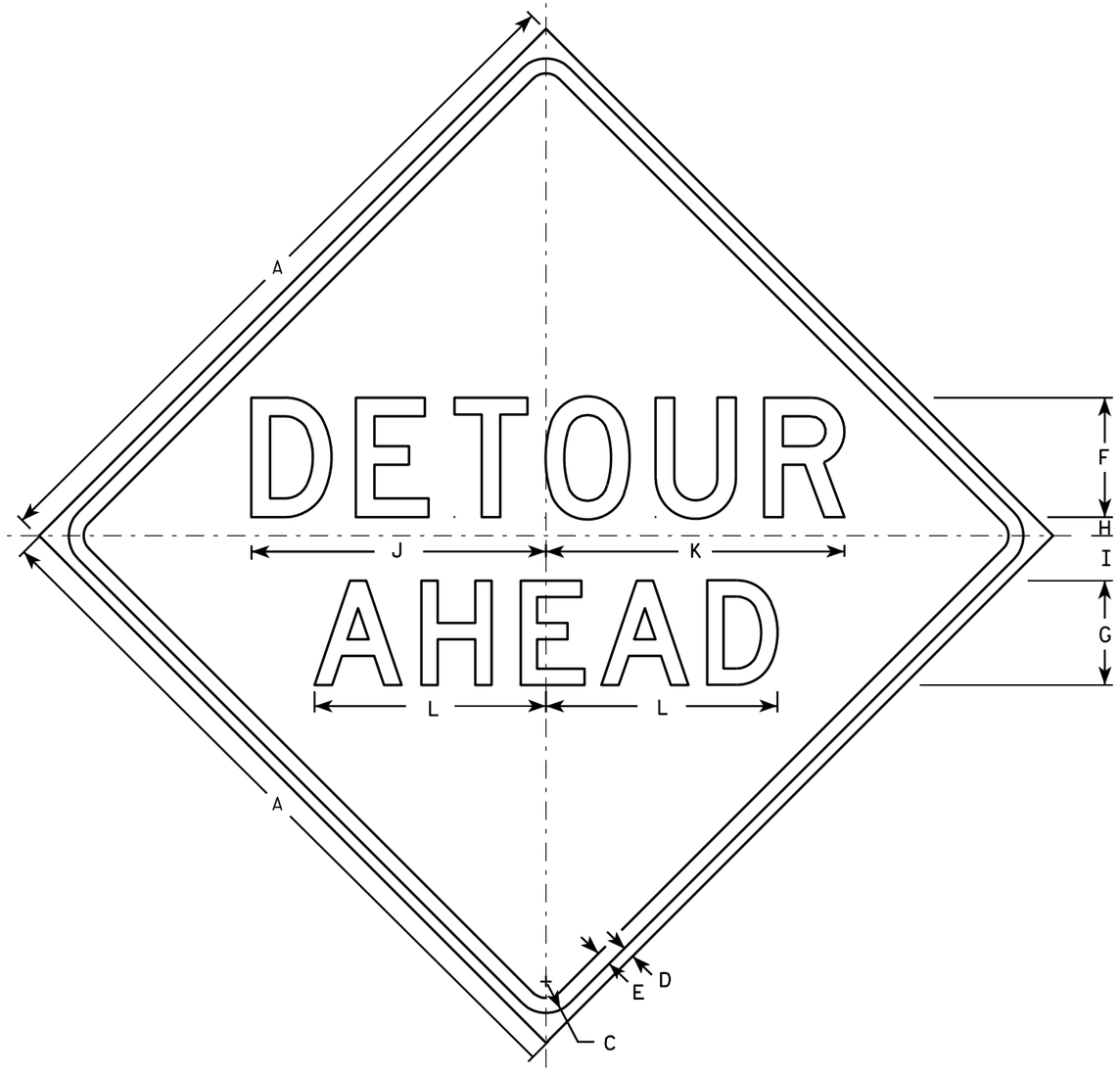
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

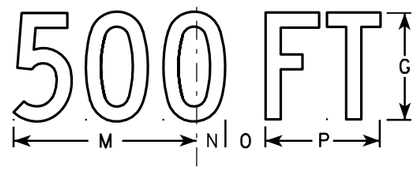
WISDOT/CADDS SHEET 42

7

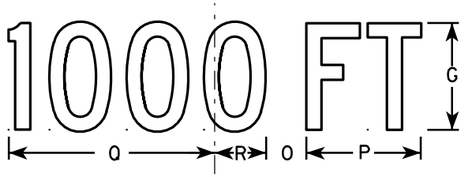
7



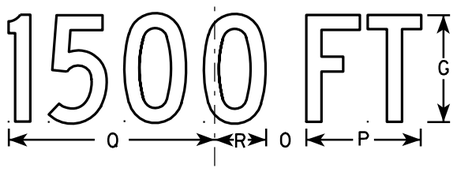
W20-2A



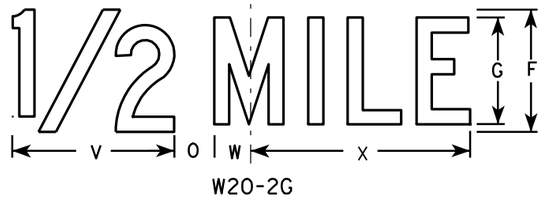
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

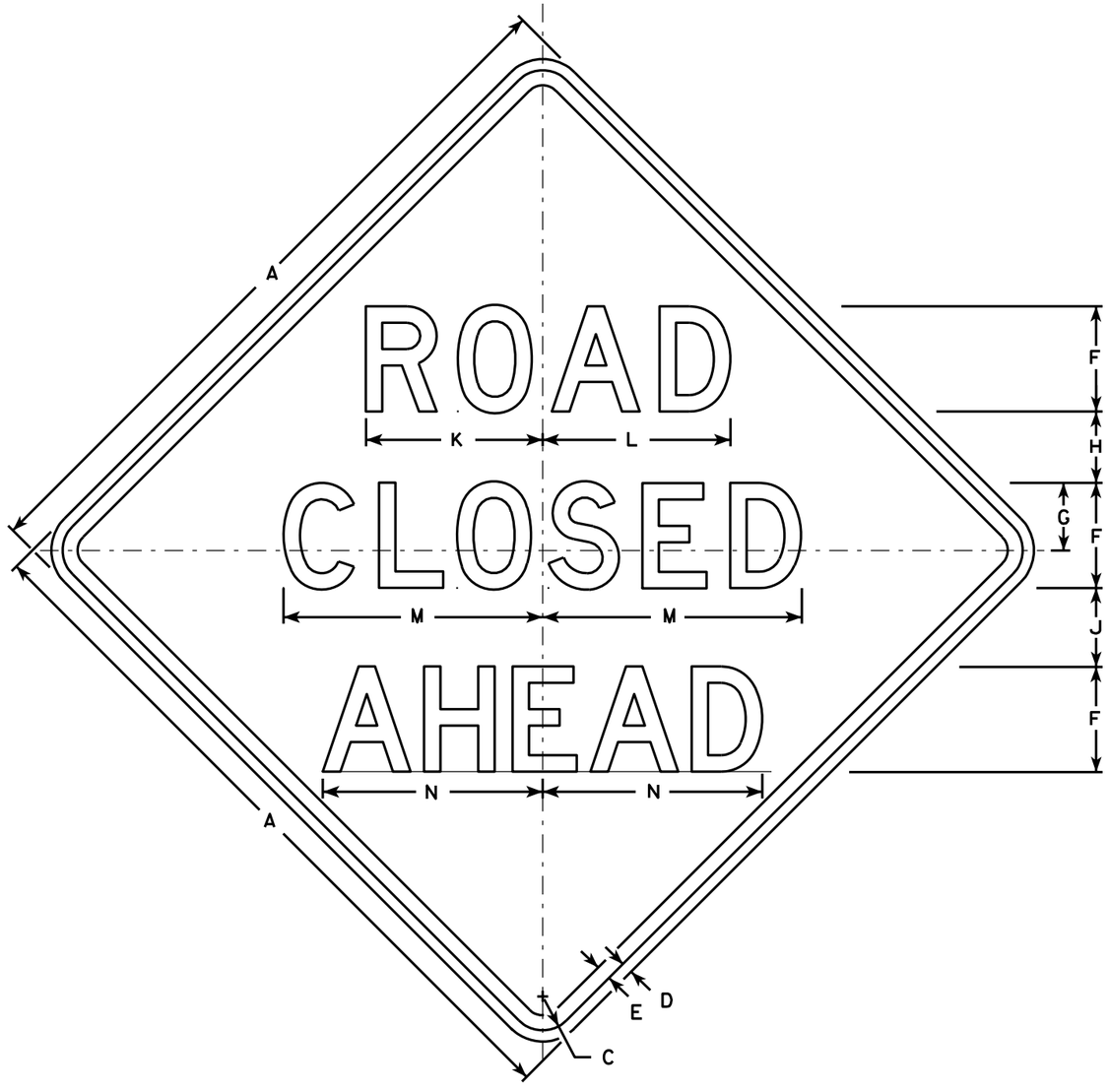
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

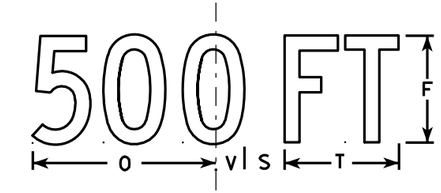
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-2.6

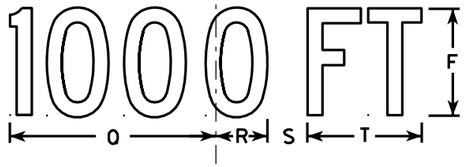
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 295	E



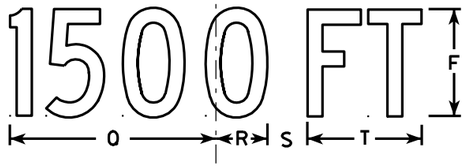
W20-3A



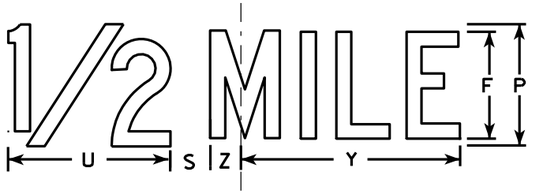
W20-3D



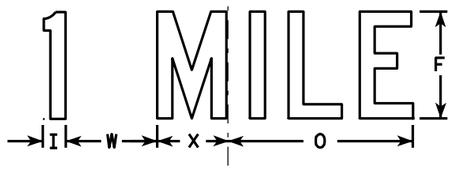
W20-3C



W20-3B



W20-3G



W20-3F

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

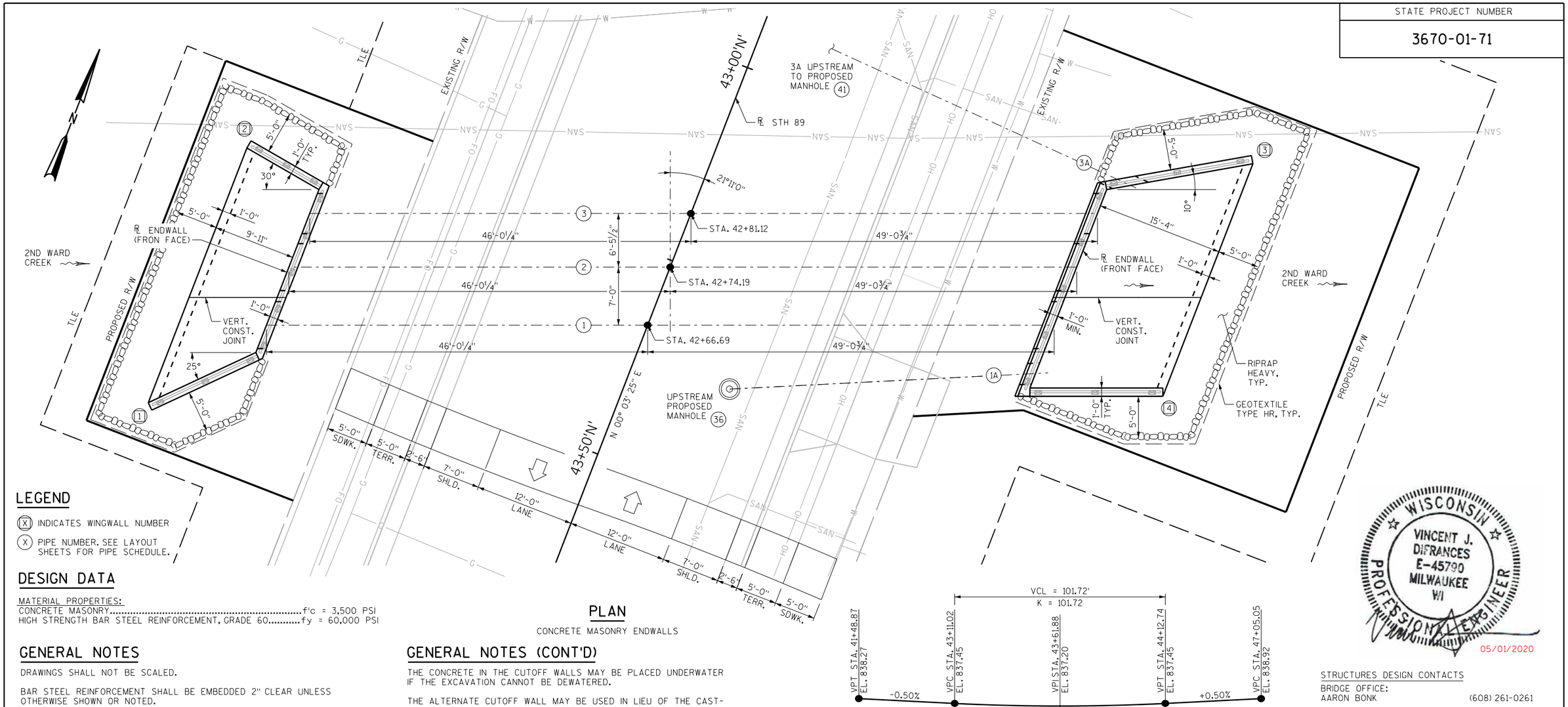
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 296 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER

3670-01-71



LEGEND

(X) INDICATES WINGWALL NUMBER

X PIPE NUMBER. SEE LAYOUT SHEETS FOR PIPE SCHEDULE.

DESIGN DATA

MATERIAL PROPERTIES:
CONCRETE MASONRY.....f'c = 3,500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 PSI

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS M-11-0010" SHALL BE THE EXISTING GROUNDLINE.

UNDER CUT 1'-0". EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURE. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE NEW CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE FOOTPRINT OF THE ENDWALL.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON SHEETS 2 & 3 AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIERD BEHIND WALL AND WING WALLS AS SHOWN. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURE.

NAME PLATE SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY CULVERTS". REFER TO THE STANDARD DETAILS FOR NAME PLATE DETAILS.

PLAN

CONCRETE MASONRY ENDWALLS

GENERAL NOTES (CONT'D)

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE ALTERNATE CUTOFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUTOFF WALL. PAYMENT SHALL BE BASED ON THE CONCRETE CUT OFF WALLS.

FILL EMBANKMENTS AND FINISHED GROUND AT THE ENDWALL AND WING WALLS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENTS SHOWN.

REFER TO SECTION 2 OF THE PLANS FOR STAGED DRAINAGE DETAILS. MAINTAINING DRAINAGE DURING CONSTRUCTION SHALL BE INCIDENTAL TO BID ITEM "EXCAVATION FOR CULVERTS M-11-0010".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

LIST OF DRAWINGS

1. GENERAL PLAN
2. WEST ENDWALL LAYOUT
3. EAST ENDWALL LAYOUT
4. APRON REINFORCEMENT
5. WINGWALL ELEVATIONS
6. WINGWALL REINFORCEMENT SECTIONS
7. WALL ELEVATIONS
8. WALL REINFORCEMENT SECTIONS 1
9. WALL REINFORCEMENT SECTIONS 2
10. BILL OF BARS 1
11. BILL OF BARS 2
12. COMBINATION RAIL TYPE "C4" ELEVATIONS
13. COMBINATION RAIL TYPE "C4" DETAILS

TRAFFIC DATA

STH 89
A.D.T. = 1,500 (2022)
A.D.T. = 1,850 (2042)
R.D.S. = 30 MPH

PROFILE GRADE LINE - STH 89

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	WEST	EAST	TOTAL
206.2000	EXCAVATION FOR CULVERTS M-11-0010	LS	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	95	265	360
311.0115	BREAKER RUN	CY	15	25	40
504.0100	CONCRETE MASONRY CULVERTS	CY	22	42	64
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1830	4410	6240
513.8021	RAILING STEEL PEDESTRIAN TYPE C4	LF	46	61	107
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	12	16	28
606.0300	RIPRAP HEAVY	CY	30	30	60
645.0105	GEOTEXTILE TYPE C	SY	45	65	110
645.0120	GEOTEXTILE TYPE HR	SY	80	80	160
	NON-BID ITEMS				
	NAME PLATE	EACH			1

ALL BID ITEMS ARE CATEGORY 0040

WISCONSIN
VINCENT J. DIFRANCES
E-45790
MILWAUKEE
WI
PROFESSIONAL ENGINEER

05/01/2020

STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE:
AARON BONK (608) 261-0261

CONSULTANT:
VINCENT DIFRANCES, P.E. (920) 468-4771

NO.	DATE	REVISION	BY

jt ENGINEERING, INC
Consultant Services

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 08/20/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE M-11-0010

STH 89 OVER 2ND WARD CREEK

COUNTY	CITY
COLUMBIA	COLUMBUS

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
VJD	BRS	VJD	BRS

GENERAL PLAN

SHEET 1 OF 13
297

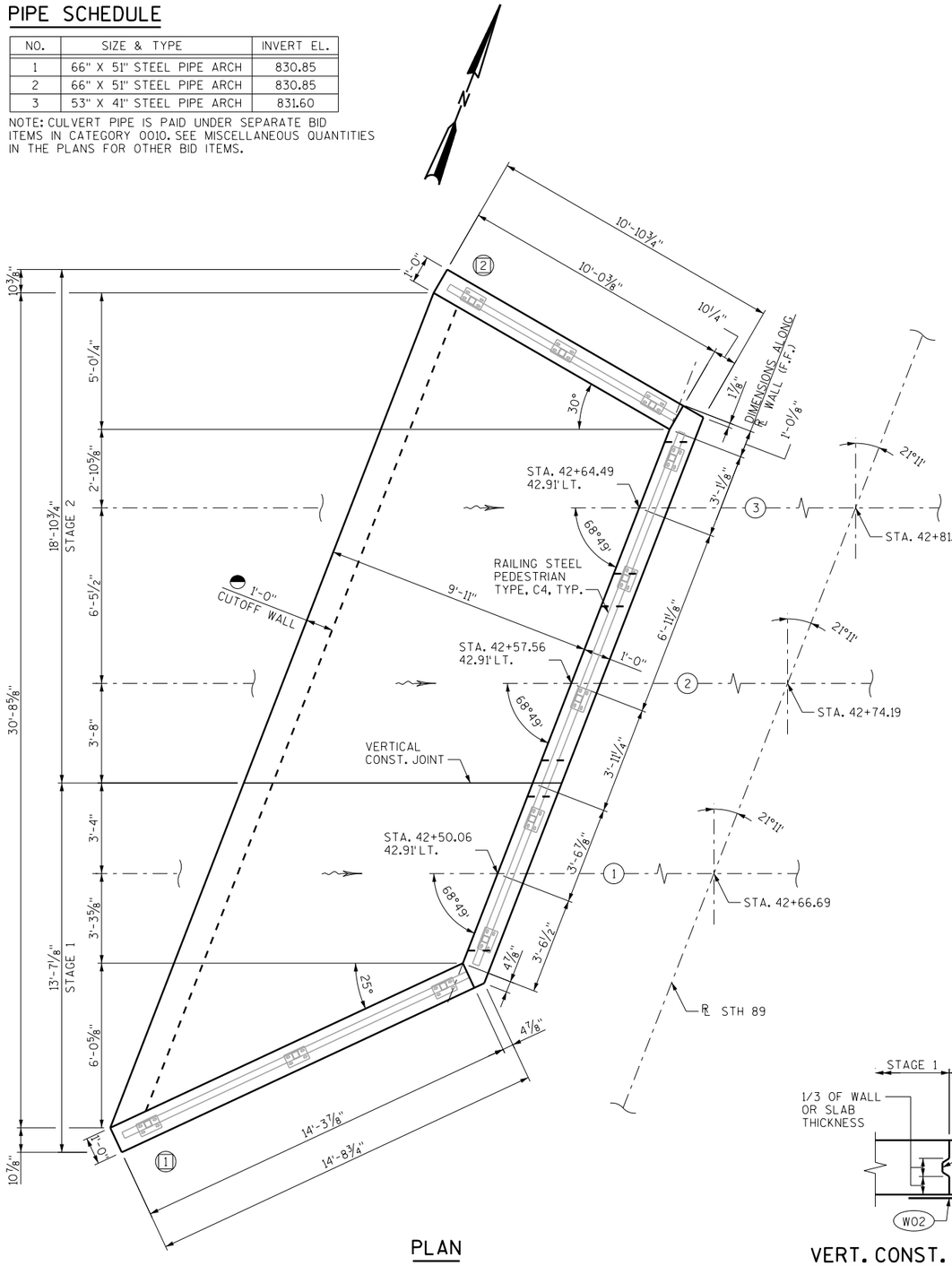
STATE PROJECT NUMBER

3670-01-71

PIPE SCHEDULE

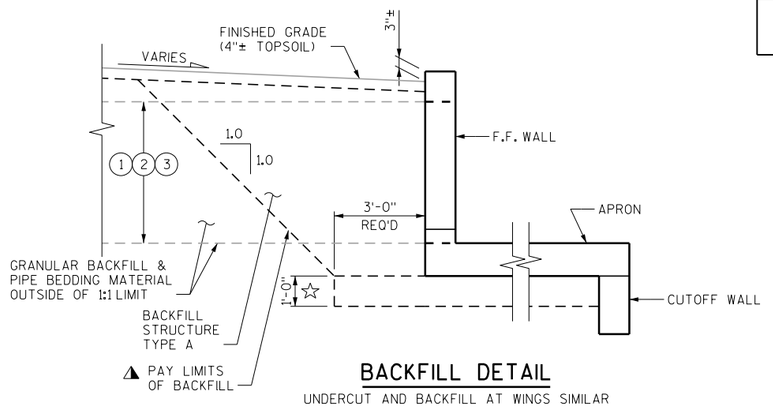
NO.	SIZE & TYPE	INVERT EL.
1	66" X 51" STEEL PIPE ARCH	830.85
2	66" X 51" STEEL PIPE ARCH	830.85
3	53" X 41" STEEL PIPE ARCH	831.60

NOTE: CULVERT PIPE IS PAID UNDER SEPARATE BID ITEMS IN CATEGORY 0010. SEE MISCELLANEOUS QUANTITIES IN THE PLANS FOR OTHER BID ITEMS.



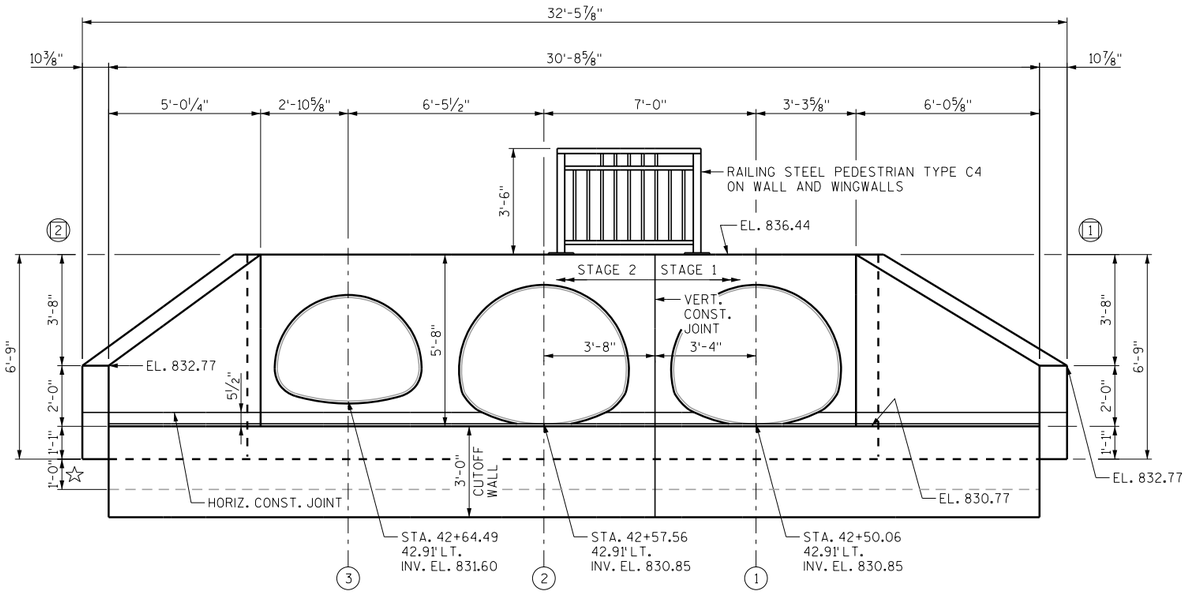
PLAN

SHOWING ENDWALL LAYOUT
SEE SHEETS 12 & 13 FOR RAILING AND POST DETAILS



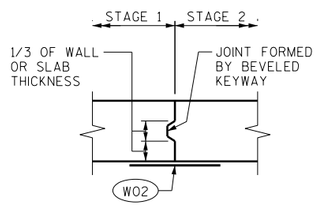
BACKFILL DETAIL

UNDERCUT AND BACKFILL AT WINGS SIMILAR



ELEVATION

LOOKING EAST AT FRONT FACE
DIMENSIONS ARE NORMAL TO ℄ PIPES 1 THRU 3



VERT. CONST. JOINT DETAIL

EXTEND REINFORCEMENT THRU JOINT
RMW ON B.F. WALL ONLY

LEGEND

☆ UNDER CUT 1'-0". EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURE. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN". REFER TO GENERAL NOTES ON SHEET 1 FOR ALTERNATIVE BACKFILL MATERIALS.

◭ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMIT OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

(X) INDICATES WING WALL NUMBER.

X INDICATES PIPE NUMBER. SEE PIPE SCHEDULE.

◓ FOR SECTION THRU CUTOFF WALL, SEE SHEET 6.

W02 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

WEST ENDWALL LAYOUT

SHEET 2 OF 13
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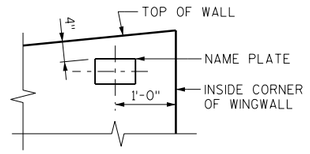
STATE PROJECT NUMBER

3670-01-71

PIPE SCHEDULE

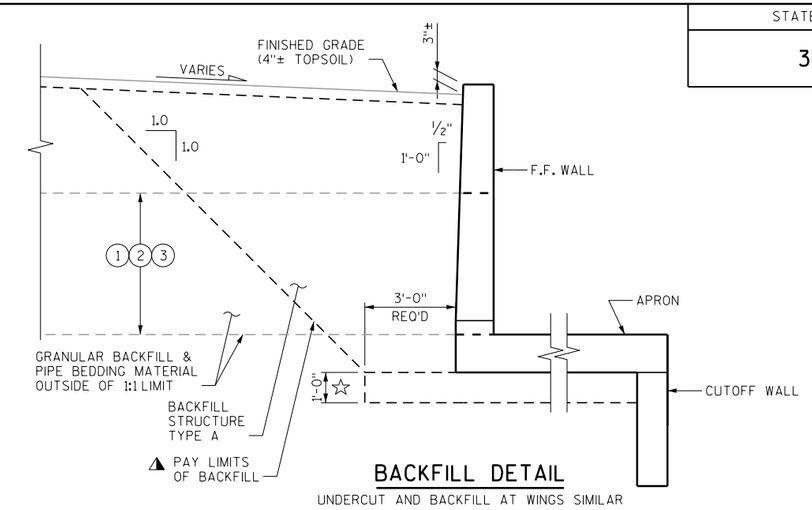
NO.	SIZE & TYPE	INVERT EL.	PIPE WALL "T"
1A	24" DIA. RCP	831.28	3"
1	66" X 51" STEEL PIPE ARCH	829.00	1"
2	66" X 51" STEEL PIPE ARCH	829.00	1"
3	53" X 41" STEEL PIPE ARCH	830.00	1"
3A	24" DIA. RCP	830.00	3"

NOTE: STORM SEWER AND CULVERT PIPE ARE PAID UNDER SEPARATE BID ITEMS IN CATEGORY 0010. SEE MISCELLANEOUS QUANTITIES IN THE PLANS FOR OTHER BID ITEMS.



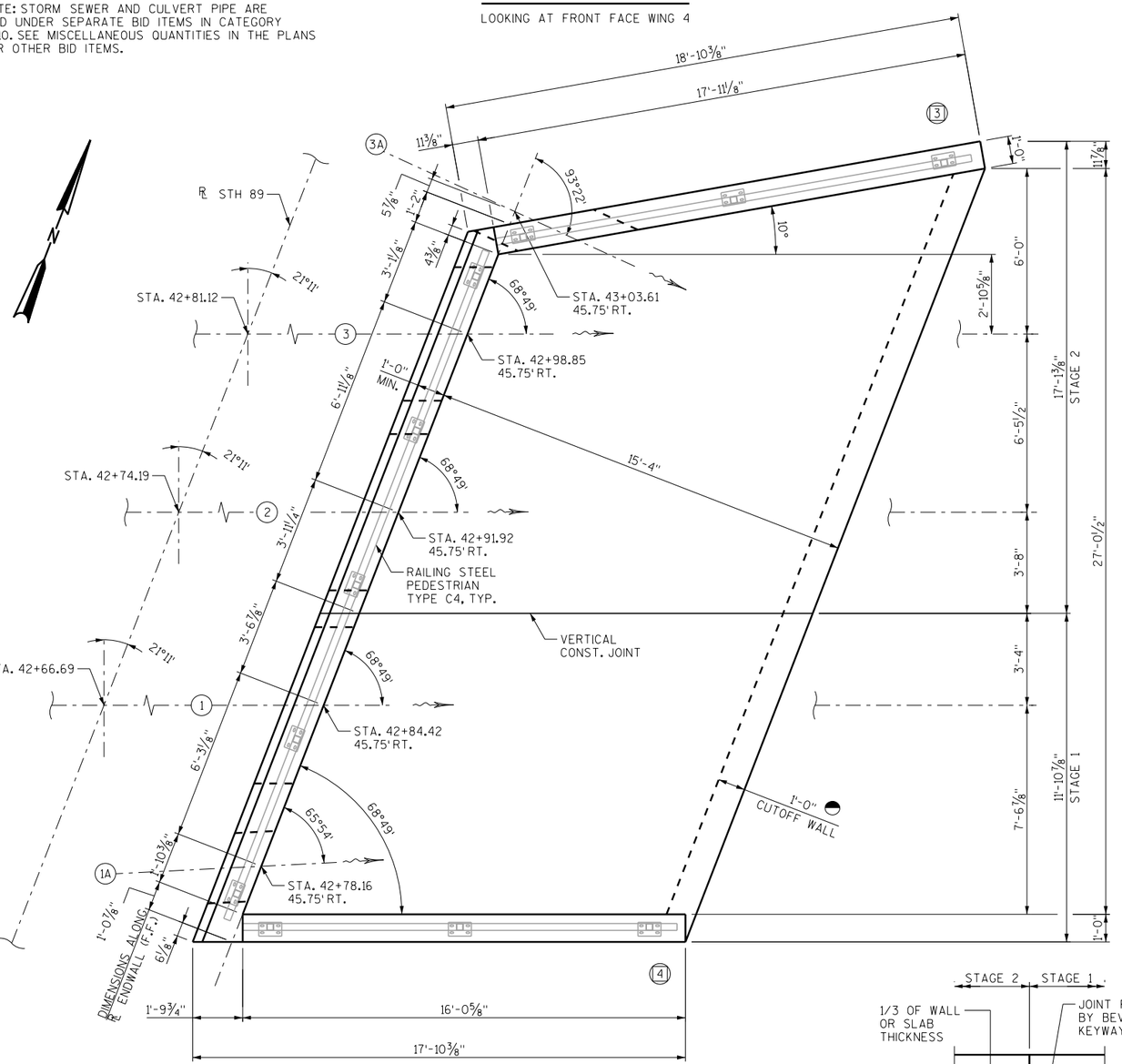
NAME PLATE DETAIL

LOOKING AT FRONT FACE WING 4



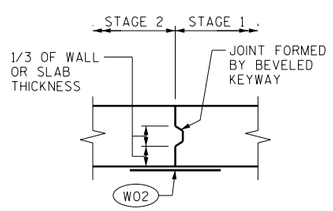
BACKFILL DETAIL

UNDERCUT AND BACKFILL AT WINGS SIMILAR



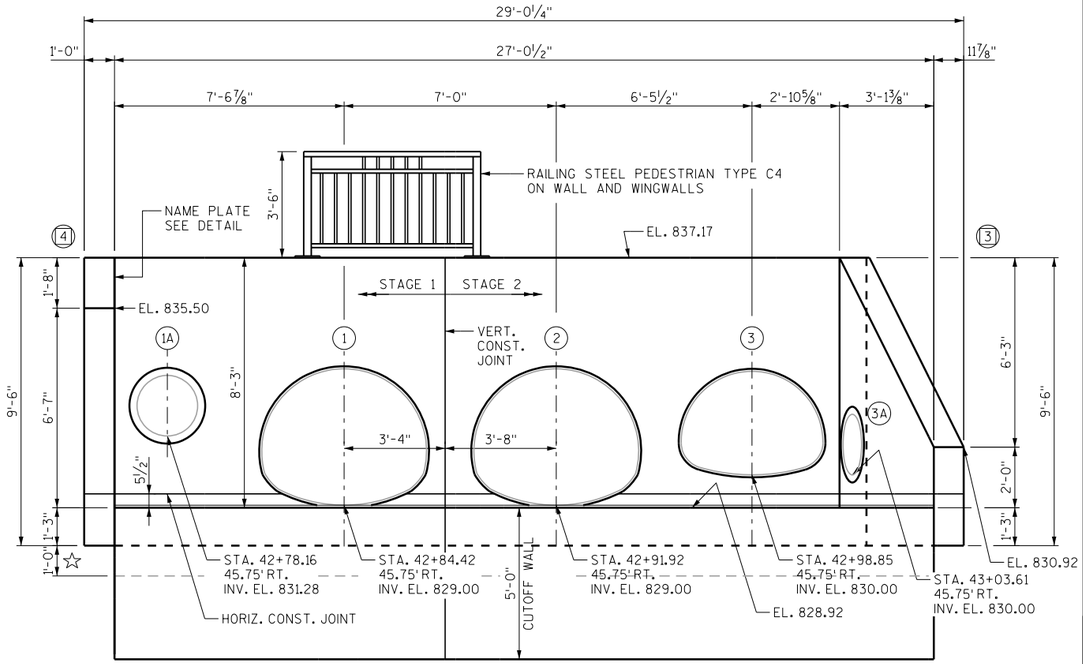
PLAN

SHOWING ENDWALL LAYOUT
SEE SHEET 12 & 13 FOR RAILING AND POST DETAILS



VERT. CONST. JOINT DETAIL

EXTEND REINFORCEMENT THRU JOINT
RMW ON B.F. WALL ONLY



ELEVATION

LOOKING WEST AT FRONT FACE
DIMENSIONS ARE NORMAL TO ℄ PIPES 1 THRU 3

LEGEND

- ☆ UNDER CUT 1'-0". EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURE. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN". REFER TO GENERAL NOTES ON SHEET 1 FOR ALTERNATIVE BACKFILL MATERIALS.
- ◭ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMIT OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- (X) INDICATES WING WALL NUMBER.
- X INDICATES PIPE NUMBER. SEE PIPE SCHEDULE.
- ◓ FOR SECTION THRU CUTOFF WALL, SEE SHEET 6.
- (W02) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

EAST ENDWALL LAYOUT

SHEET 3 OF 13
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FILE NAME : X:\Projects\Columbia\3670-01-01 STH 89\Structure\CAD\Sheets\M110010_080103_East Endwall Layout.dgn PLOT DATE : 4/30/2020 4:38:43 PM PLOT BY : vdifrances PLOT SCALE : 5.0000 sf / in.

STATE PROJECT NUMBER
3670-01-71

LEGEND

(W02) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING. SEAL AND HORIZONTAL AND VERTICAL JOINTS AT BACK FACE.

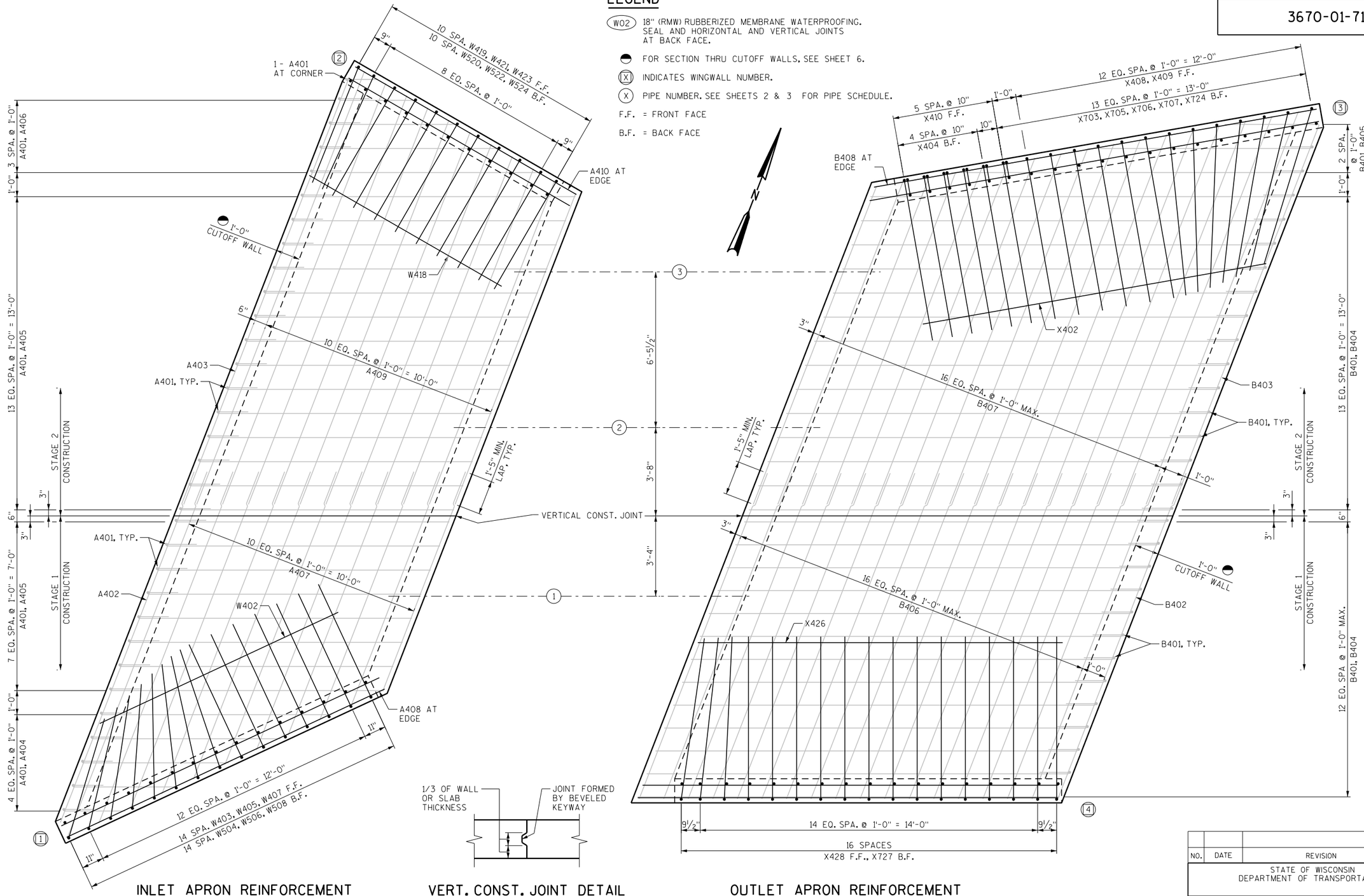
◓ FOR SECTION THRU CUTOFF WALLS, SEE SHEET 6.

(X) INDICATES WINGWALL NUMBER.

(X) PIPE NUMBER. SEE SHEETS 2 & 3 FOR PIPE SCHEDULE.

F.F. = FRONT FACE

B.F. = BACK FACE



INLET APRON REINFORCEMENT

BARS DEVELOPED FROM THE WALL TO THE APRON NOT SHOWN FOR CLARITY. SEE SHEETS 7 & 8.

VERT. CONST. JOINT DETAIL

EXTEND REINFORCEMENT THRU JOINT

OUTLET APRON REINFORCEMENT

BARS DEVELOPED FROM THE WALL TO THE APRON NOT SHOWN FOR CLARITY. SEE SHEETS 7 & 8.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

APRON REINFORCEMENT

SHEET 4 OF 13
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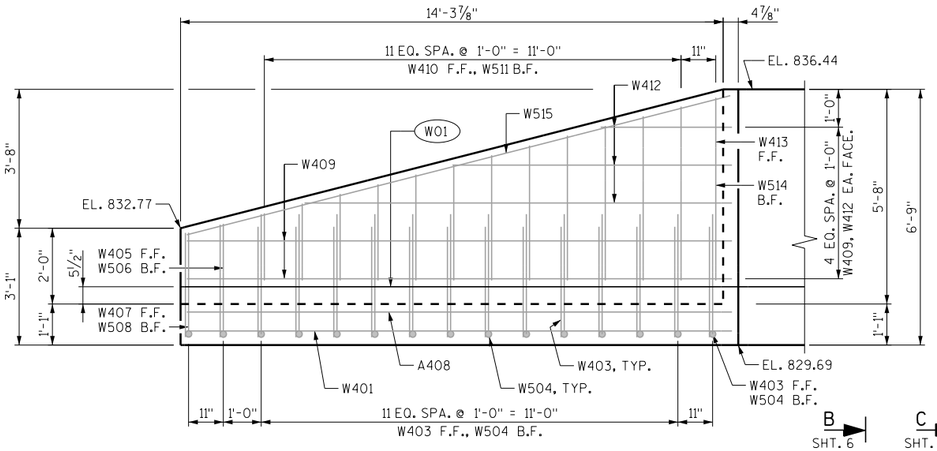
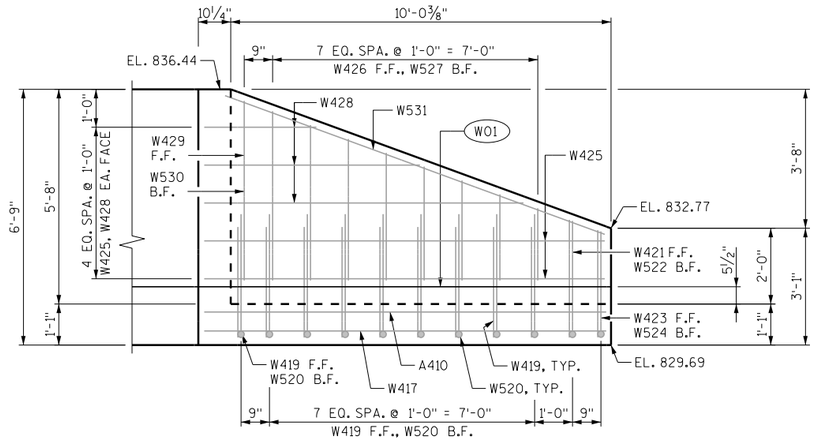
STATE PROJECT NUMBER

3670-01-71

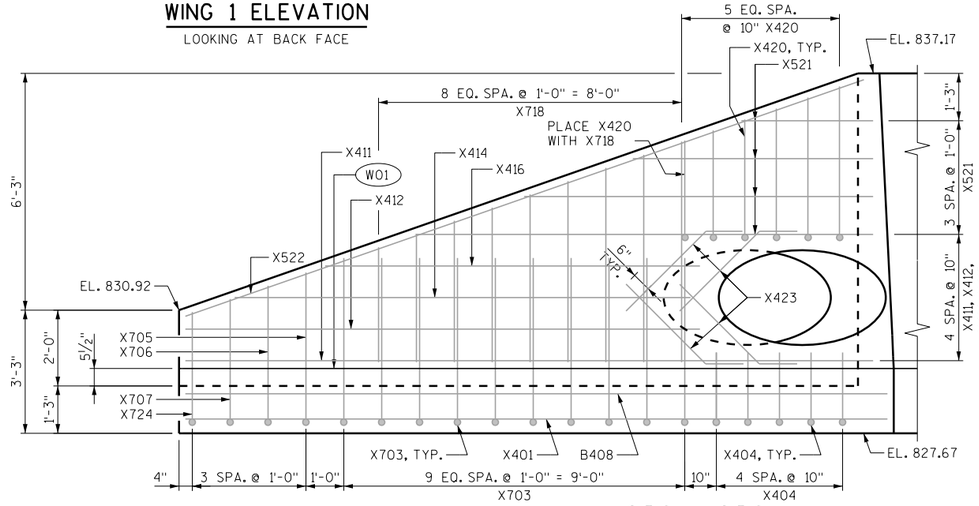




B SHT. 6 C SHT. 6

WING 1 ELEVATION

LOOKING AT BACK FACE



WING 3 ELEVATION

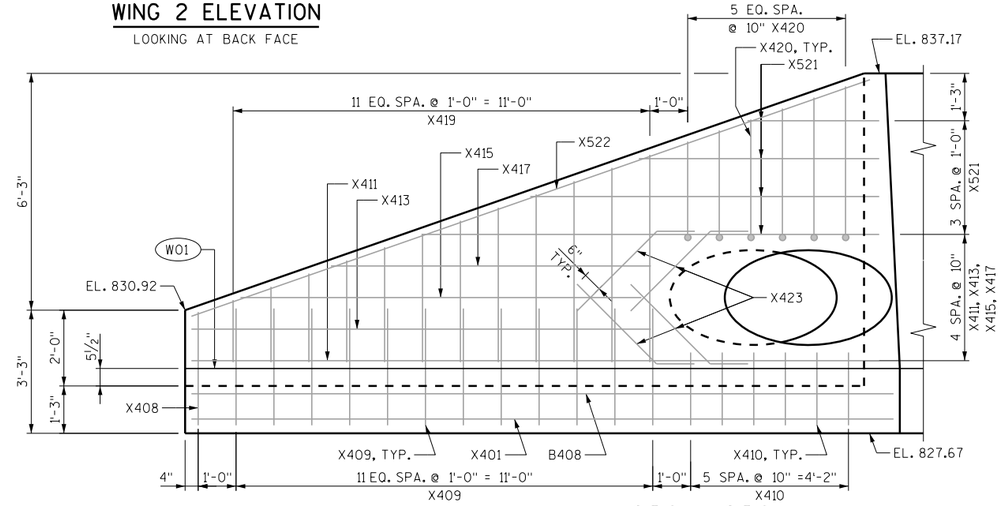
LOOKING AT BACK FACE
SHOWING BACK FACE REINFORCEMENT

B SHT. 6 C SHT. 6

B SHT. 6 C SHT. 6

WING 2 ELEVATION

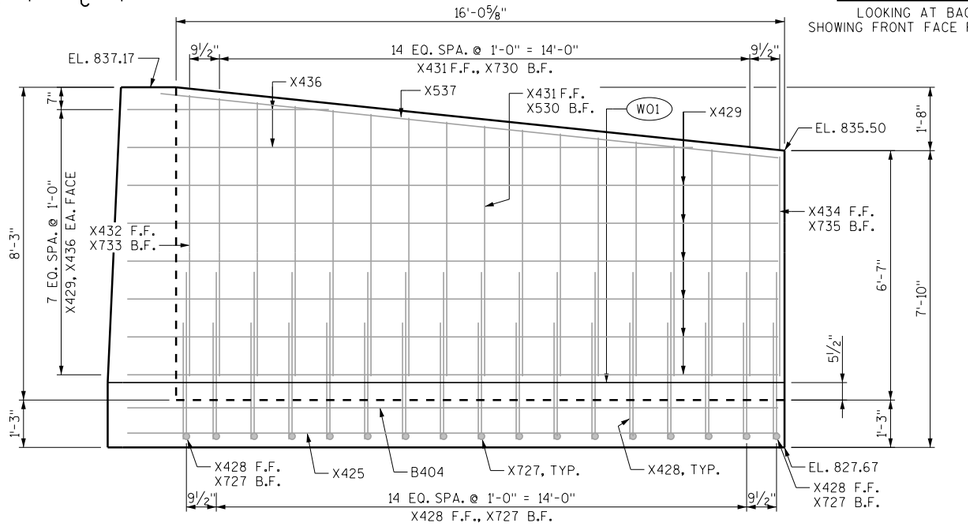
LOOKING AT BACK FACE



WING 3 ELEVATION

LOOKING AT BACK FACE
SHOWING FRONT FACE REINFORCEMENT

B SHT. 6 C SHT. 6



WING 4 ELEVATION

LOOKING AT BACK FACE

NOTES

1. FOR TYPICAL SECTIONS THRU WINGWALLS AND SECTION B-B AND C-C LOCATION, SEE SHEET 6.
2. FOR APRON REINFORCEMENT, SEE SHEET 4.
3. FOR ADDITIONAL WINGWALL LAYOUT DETAILS, SEE SHEETS 2 AND 3.
4. FOR BILL OF BARS, SEE SHEET 10.
5. WHERE SHOWN, PLACE BENT VERTICAL REINFORCEMENT NORMAL TO WING FACE.

LEGEND

(WO1) HORIZONTAL CONSTRUCTION JOINT

F.F. = FRONT FACE

B.F. = BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

WINGWALL ELEVATIONS

SHEET 5 OF 13
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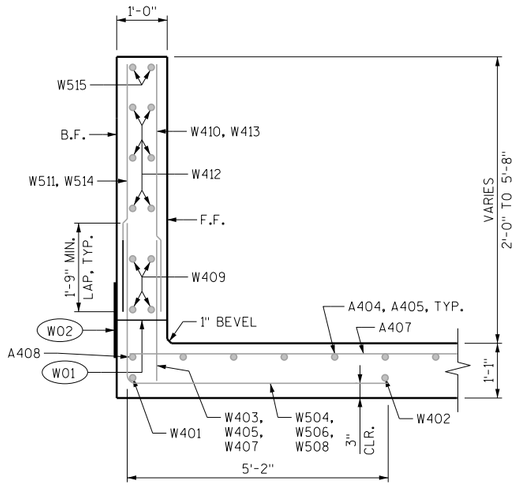
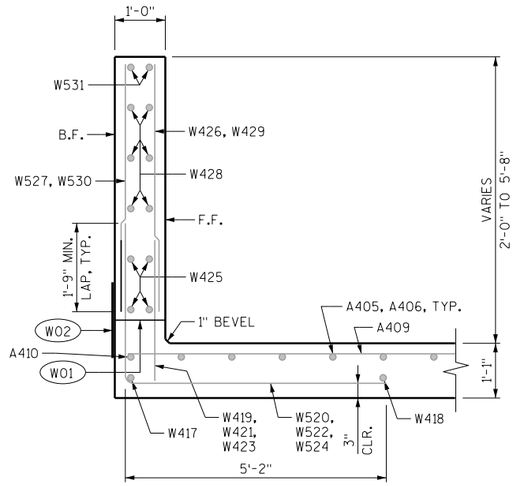
STATE PROJECT NUMBER

3670-01-71



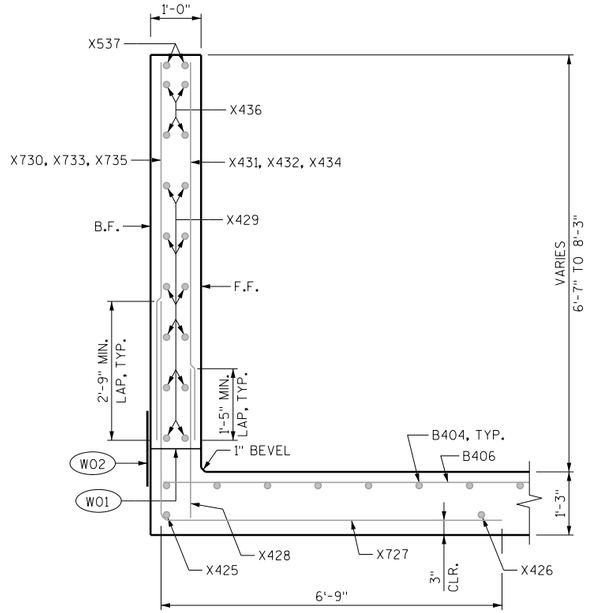
SECTION THRU WING 1

STAGE 1 CONSTRUCTION



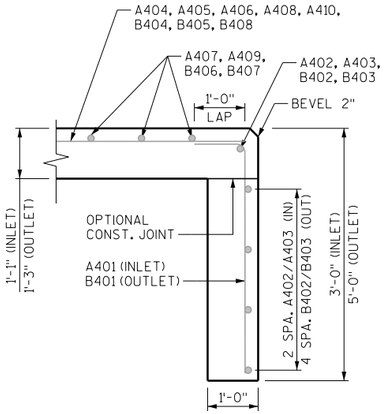
SECTION THRU WING 2

STAGE 2 CONSTRUCTION

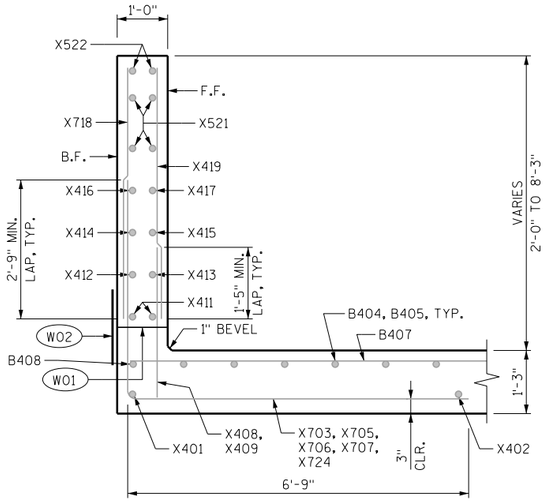


SECTION THRU WING 4

STAGE 1 CONSTRUCTION

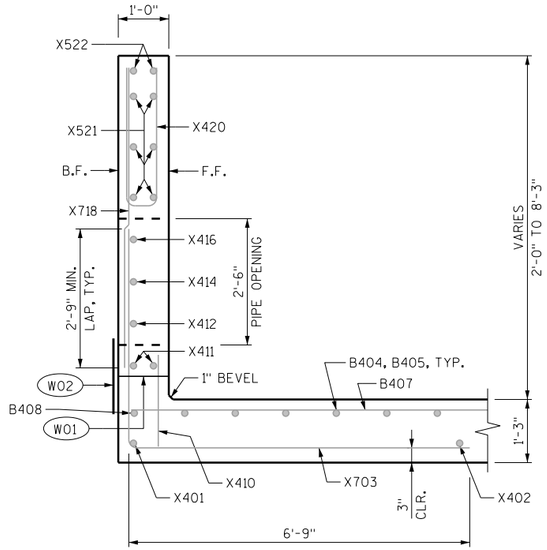


SECTION THRU CUTOFF WALL



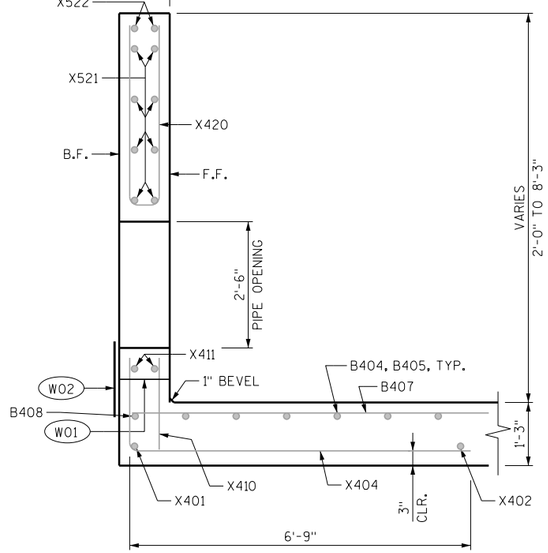
SECTION THRU WING 3

STAGE 2 CONSTRUCTION
SHOWING SECTIONS AWAY FROM WALL OPENING



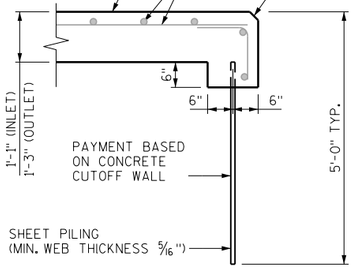
WING 3 SECTION B-B

STAGE 2 CONSTRUCTION



WING 3 SECTION C-C

STAGE 2 CONSTRUCTION



ALTERNATE CUTOFF WALL

NOTES

1. FOR WINGWALL ELEVATIONS, SEE SHEET 5.
2. FOR LOCATION OF SECTION B-B AND C-C SEE SHEET 5.
3. FOR BILL OF BARS, SEE SHEET 10.

LEGEND

- (W01) HORIZONTAL CONSTRUCTION JOINT.
- (W02) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- F.F. = FRONT FACE
- B.F. = BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

WINGWALL REINFORCMENT SECTIONS

SHEET 6 OF 13
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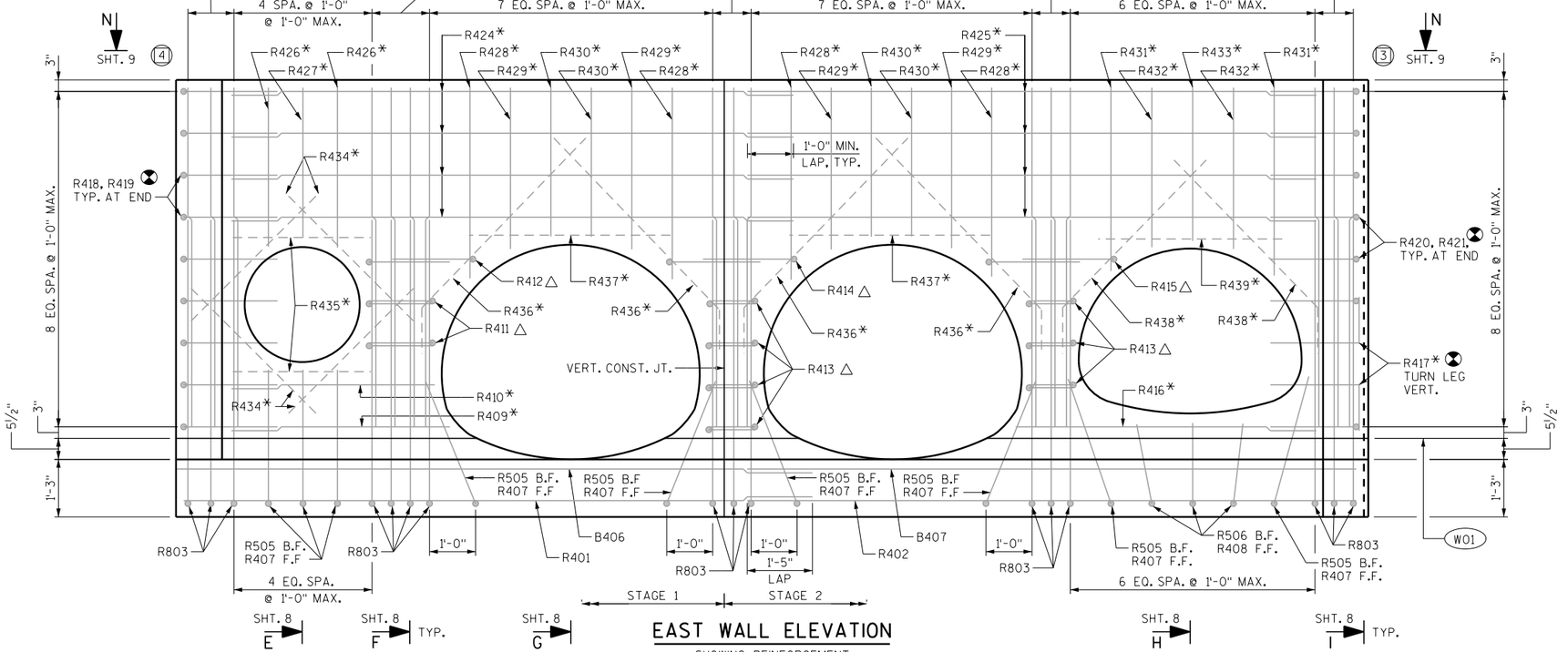
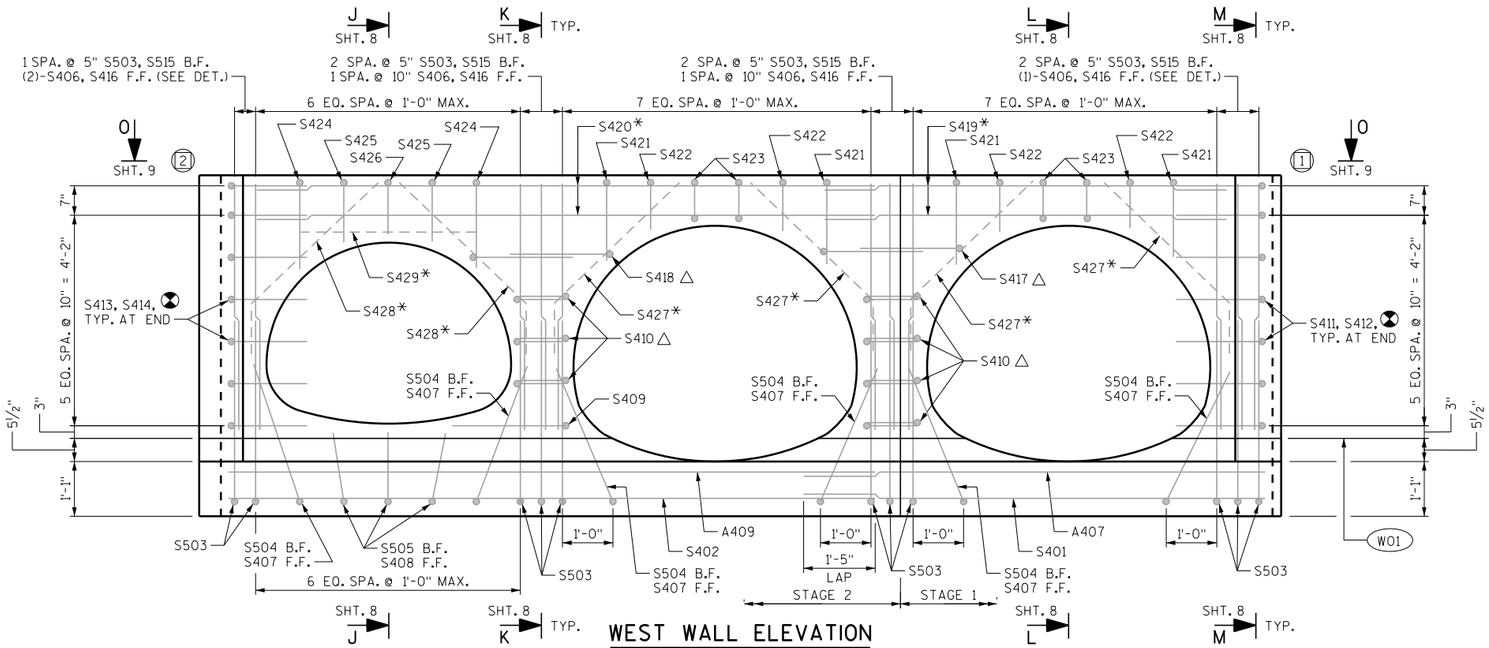
STATE PROJECT NUMBER

3670-01-71



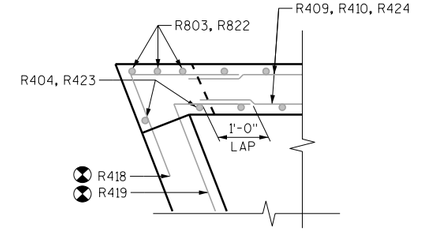
EAST WALL ELEVATION

SHOWING REINFORCEMENT
LOOKING WEST AT FRONT FACE
BAR SPACINGS ARE ALONG WALL FACE



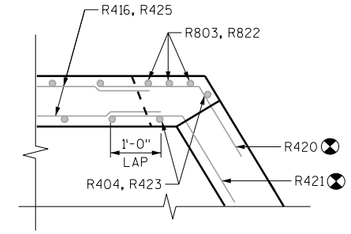
WEST WALL ELEVATION

SHOWING REINFORCEMENT
LOOKING EAST AT FRONT FACE
BAR SPACINGS ARE ALONG WALL FACE



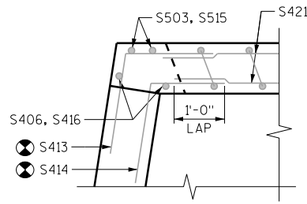
WING 4 CORNER

PLACE BARS AS SHOWN



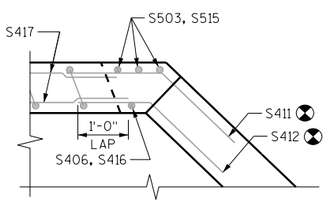
WING 3 CORNER

PLACE BARS AS SHOWN



WING 2 CORNER

PLACE BARS AS SHOWN



WING 1 CORNER

PLACE BARS AS SHOWN

NOTES

1. FOR TYPICAL SECTIONS THRU WALLS AND SECTIONS E-E THRU M-M, SEE SHEET 8.
2. FOR SECTIONS N-N AND O-O, SEE SHEET 9.
2. FOR APRON REINFORCEMENT, SEE SHEET 4
3. FOR ADDITIONAL WALL LAYOUT DETAILS, SEE SHEETS 2 AND 3.
4. FOR BILL OF BARS, SEE SHEET 11.
5. WHERE SHOWN, PLACE BENT VERTICAL REINFORCEMENT PARALLEL ℄ OF PIPES.
6. FLARE R803 AND S503 LEG IN APRON SLAB TO 30° AS ALLOWED BY ALIGNMENT OF VERTICAL CONSTRUCTION JOINT, WINGWALLS, AND ADJACENT BARS.

LEGEND

- (WO1) HORIZONTAL CONSTRUCTION JOINT
- ⊗ TRIM BARS TO FIT AROUND PIPE OPENING.
- * PLACE BARS AT EACH FACE OF WALL.
- △ U-BAR PLACED IN PAIRS.
- (X) INDICATES WINGWALL NUMBER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

WALL ELEVATIONS

SHEET 7 OF 13
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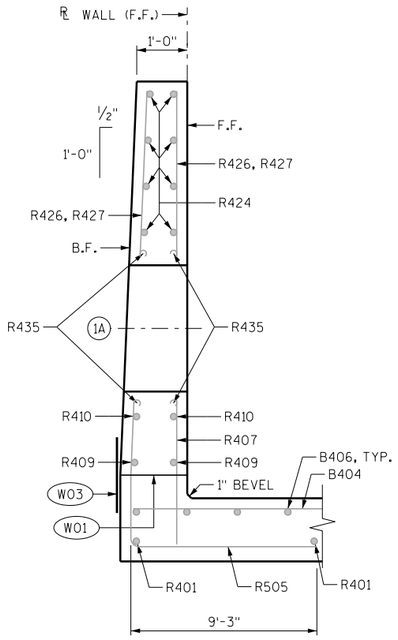
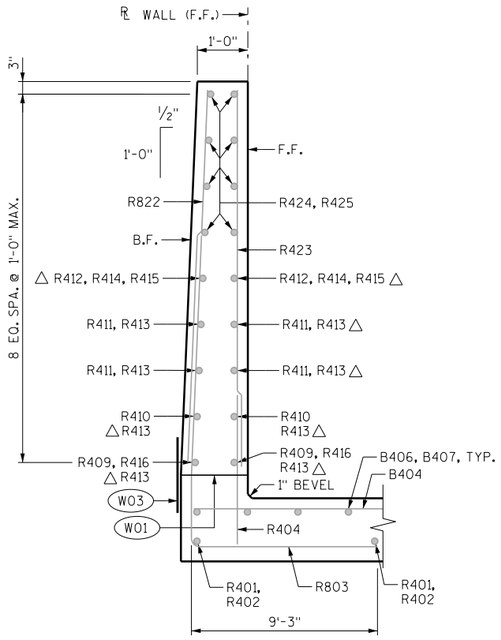
STATE PROJECT NUMBER

3670-01-71



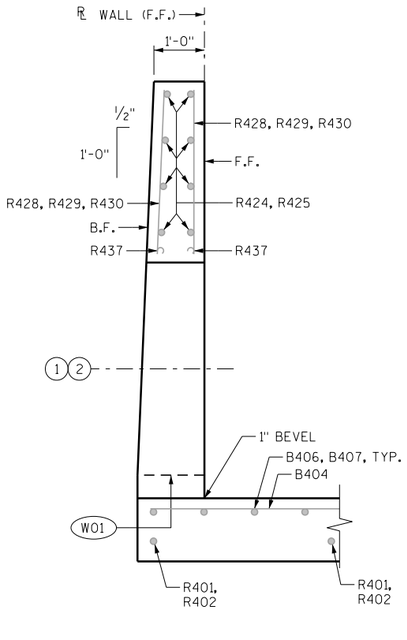
SECTION E-E

SHOWING REINFORCEMENT AT 24" RCP



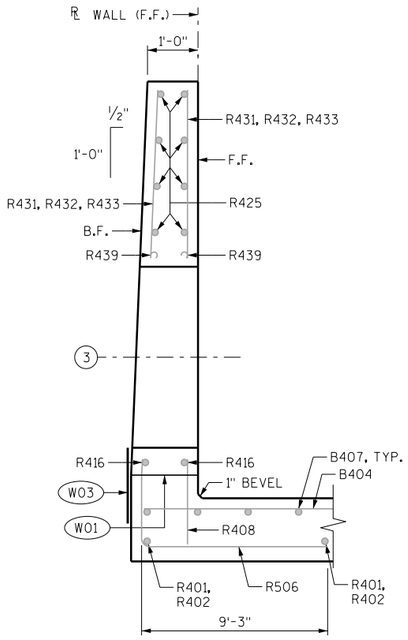
SECTION F-F

REINFORCEMENT TYPICAL BETWEEN OPENINGS



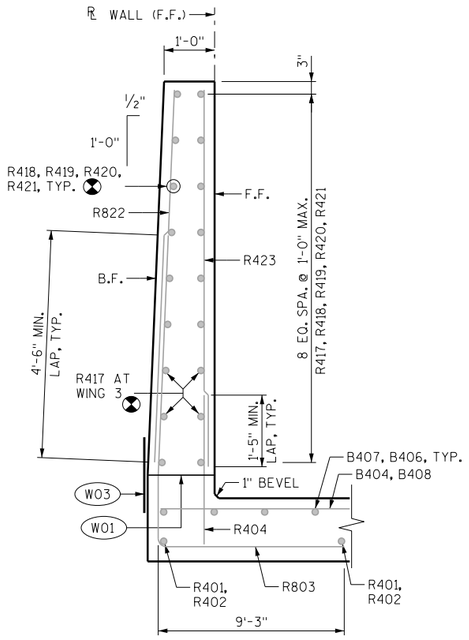
SECTION G-G

SHOWING REINFORCEMEN AT 66" X 51" PIPE ARCHES



SECTION H-H

SHOWING REINFORCEMEN AT 53" X 41" PIPE ARCHES

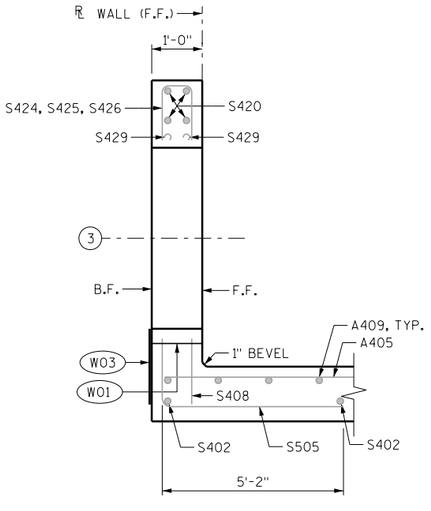


SECTION I-I

REINFORCEMENT TYPICAL AT WALL ENDS

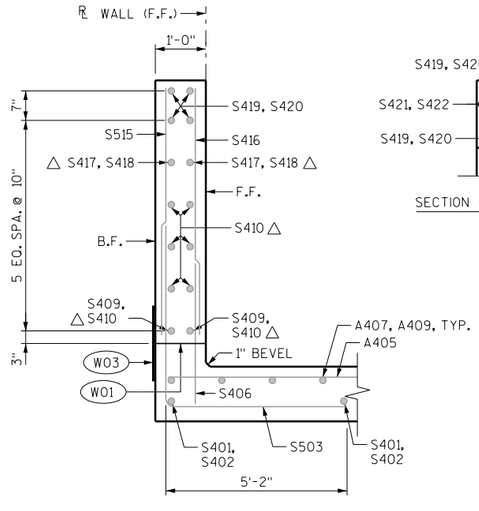
SECTIONS THRU EAST WALL

SEE LOCATIONS ON SHEET 7



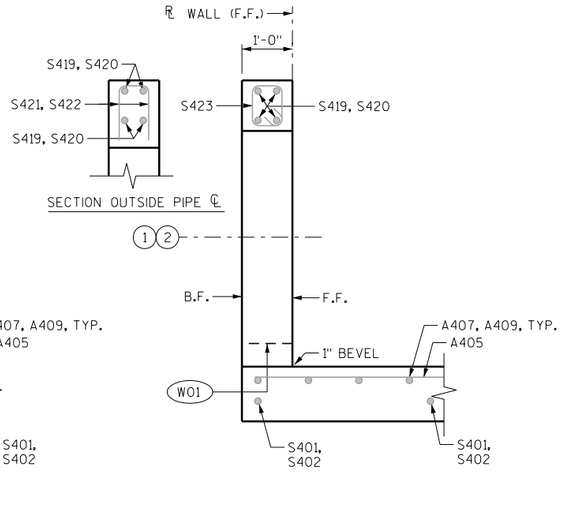
SECTION J-J

SHOWING REINFORCEMENT AT 53" X 41" PIPE ARCH



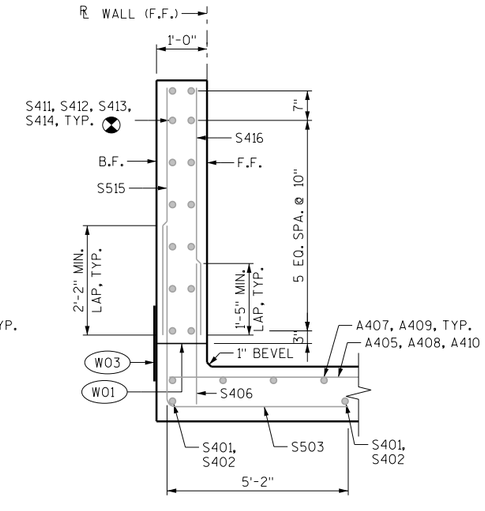
SECTION K-K

REINFORCEMENT TYPICAL BETWEEN OPENINGS



SECTION L-L

SHOWING REINFORCEMENT AT 66" X 51" PIPE ARCHES



SECTION M-M

REINFORCEMENT TYPICAL AT WALL ENDS

SECTIONS THRU WEST WALL

SEE LOCATIONS ON SHEET 7

NOTES

1. FOR SECTION LOCATIONS, SEE SHEET 7.
2. FOR APRON REINFORCEMENT, SEE SHEET 4.
3. FOR BILL OF BARS, SEE SHEET 11.
4. WHERE SHOWN, PLACE BENT VERTICAL REINFORCEMENT PARALLEL TO ℄ OF PIPES.
5. FLARE R803 AND S503 LEG IN APRON SLAB TO 30° AS ALLOWED BY ALIGNMENT OF VERTICAL CONSTRUCTION JOINT, WINGWALLS, AND ADJACENT BARS.

LEGEND

- (WO1) HORIZONTAL CONSTRUCTION JOINT.
- (WO3) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- ⊗ TRIM BARS TO FIT AROUND PIPE OPENINGS.
- △ U-BAR PLACED IN PAIRS.
- F.F. = FRONT FACE
- B.F. = BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

WALL REINFORCEMENT SECTIONS 1

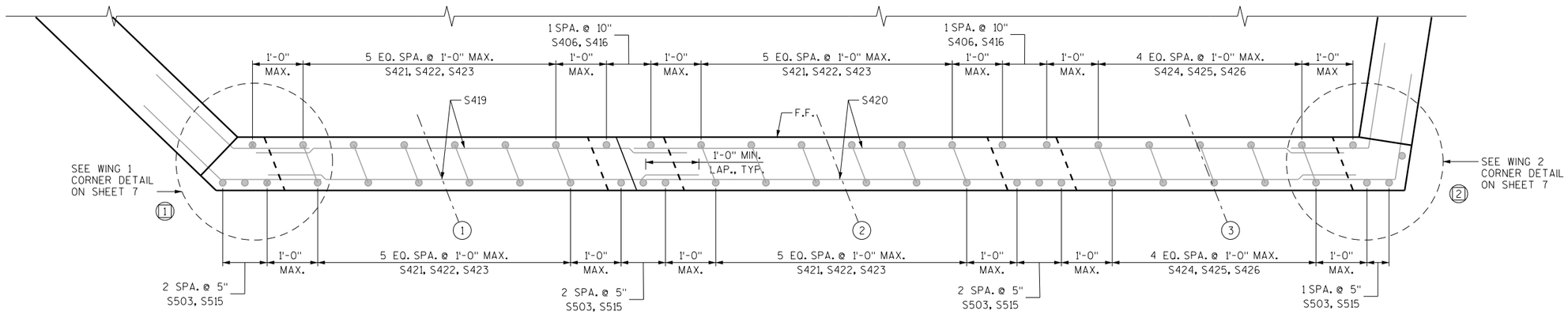
SHEET 8 OF 13

304

8

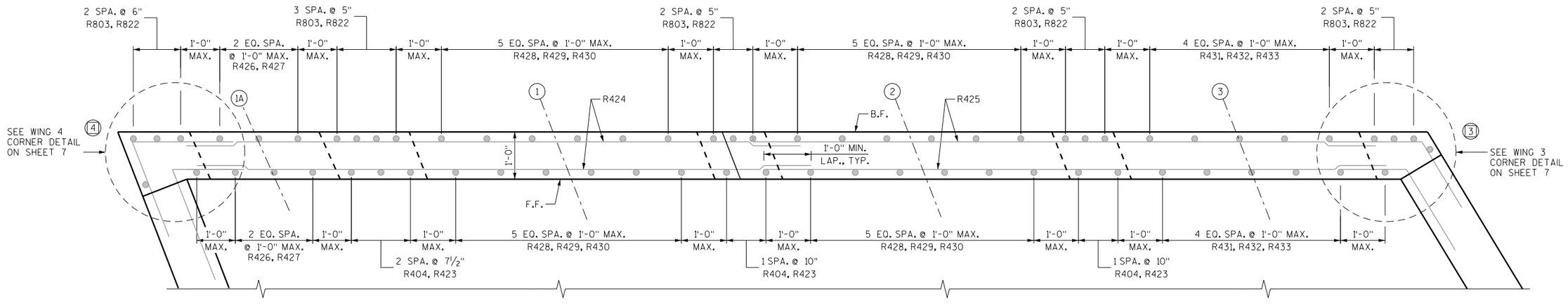
8

STATE PROJECT NUMBER
3670-01-71



SECTION O-O

AT WEST ENDWALL
SEE SHEET 7 FOR LOCATION



SECTION N-N

AT EAST ENDWALL
SEE SHEET 7 FOR LOCATION

NOTES

1. FOR SECTION LOCATIONS, SEE SHEET 7.
2. FOR BILL OF BARS, SEE SHEET 11.
3. FLARE R803 AND S503 LEG IN APRON SLAB TO 30° AS ALLOWED BY ALIGNMENT OF VERTICAL CONSTRUCTION JOINT, WINGWALLS, AND ADJACENT BARS.

LEGEND

(X) INDICATES WINGWALL NUMBER.

(X) INDICATES PIPE NUMBER. SEE PIPE SCHEDULE ON SHEETS 2 & 3.

F.F. = FRONT FACE

B.F. = BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

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WALL REINFORCEMENT SECTIONS 2

SHEET 9 OF 13
305

8

FILE NAME : X:\Projects\Columbia\3670-01-01 STH 89\Structure\CAD\Sheets\M110010_080109_Wall Reinf. Sections 2.dgn PLOT DATE : 4/30/2020 4:38:56 PM PLOT BY : vdifrances PLOT SCALE : 2.2500 sf / in.

STATE PROJECT NUMBER

3670-01-71

* LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BILL OF BARS - WING 1

COATED: 0 LBS
UNCOATED: 360 LBS

	BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
	W401		1	14'-4"			WING 1 - HORIZ. - BOTTOM APRON AT B.F.
	W402		1	11'-0"			WING 1 - HORIZ. - BOTTOM APRON IN SLAB
	W403		13	2'-11"			WING 1 - VERT. - DOWEL F.F.
	W504		13	8'-3"	X		WING 1 - VERT. - DOWEL B.F.
	W405		1	3'-0"			WING 1 - VERT. - DOWEL F.F.
	W506		1	8'-0"	X		WING 1 - VERT. - DOWEL B.F.
	W407		1	2'-9"			WING 1 - VERT. - DOWEL F.F.
	W508		1	7'-9"	X		WING 1 - VERT. - DOWEL B.F.
	W409		4	14'-4"			WING 1 - HORIZ. - EACH FACE
*	W410		12	3'-2"		X	WING 1 - VERT. - F.F.
*	W511		11	3'-3"		X	WING 1 - VERT. B.F.
*	W412		6	7'-4"		X	WING 1 - HORIZ. - EACH FACE
	W413		1	4'-10"			WING 1 - VERT. - F.F. CORNER
	W514		1	4'-10"			WING 1 - VERT. B.F. CORNER
	W515		2	14'-10"			WING 1 - HORIZ. - EACH FACE TOP

BILL OF BARS - WING 2

COATED: 0 LBS
UNCOATED: 270 LBS

	BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
	W417		1	10'-7"			WING 2 - HORIZ. - BOTTOM APRON AT B.F.
	W418		1	9'-3"			WING 2 - HORIZ. - BOTTOM APRON IN SLAB
	W419		9	2'-11"			WING 2 - VERT. - DOWEL F.F.
	W520		9	8'-9"	X		WING 2 - VERT. - DOWEL B.F.
	W421		1	3'-1"			WING 2 - VERT. - DOWEL F.F.
	W522		1	8'-0"	X		WING 2 - VERT. - DOWEL B.F.
	W423		1	2'-9"			WING 2 - VERT. - DOWEL F.F.
	W524		1	7'-9"	X		WING 2 - VERT. - DOWEL B.F.
	W425		4	10'-7"			WING 2 - HORIZ. - EACH FACE
*	W426		8	3'-2"		X	WING 2 - VERT. - F.F
*	W527		8	3'-2"		X	WING 2 - VERT. - B.F.
*	W428		6	5'-8"		X	WING 2 - HORIZ. - EACH FACE
	W429		1	4'-9"			WING 2 - VERT. - F.F. CORNER
	W530		1	4'-9"			WING 2 - VERT. - B.F. CORNER
	W531		2	10'-8"			WING 2 - HORIZ. - EACH FACE TOP

BILL OF BARS - WING 3

COATED: 0 LBS
UNCOATED: 730 LBS

	BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
	X401		1	18'-6"			WING 3 - HORIZ. - BOTTOM APRON AT B.F.
	X402		1	14'-6"			WING 3 - HORIZ. - BOTTOM APRON IN SLAB
	X703		10	10'-11"	X		WING 3 - VERT. - BACK FACE DOWEL
	X404		5	8'-7"	X		WING 3 - VERT. - BACK FACE DOWEL PIPE 3A
	X705		1	10'-6"	X		WING 3 - VERT. - BACK FACE DOWEL
	X706		1	10'-2"	X		WING 3 - VERT. - BACK FACE DOWEL
	X707		1	9'-10"	X		WING 3 - VERT. - BACK FACE DOWEL
	X408		1	3'-0"			WING 3 - VERT. - FRONT FACE DOWEL AT TIP
	X409		12	3'-1"			WING 3 - VERT. - FRONT FACE DOWEL
	X410		6	1'-11"			WING 3 - VERT. - FRONT FACE DOWEL PIPE 3A
	X411		2	18'-2"			WING 3 - HORIZ. - F.F. & B.F.
	X412		1	13'-7"			WING 3 - HORIZ. - B.F.
	X413		1	12'-2"			WING 3 - HORIZ. - F.F.
	X414		1	12'-0"			WING 3 - HORIZ. - B.F.
	X415		1	10'-7"			WING 3 - HORIZ. - F.F.
	X416		1	9'-10"			WING 3 - HORIZ. - B.F.
	X417		1	8'-5"			WING 3 - HORIZ. - F.F.
*	X718		9	4'-5"		X	WING 3 - VERT. B.F.
*	X419		12	3'-6"		X	WING 3 - VERT. F.F.
*	X420		6	6'-12"	X	X	WING 3 - VERT. OVER PIPE 3A
*	X521		8	7'-9"		X	WING 3 - HORIZ. - OVER PIPE 3A
	X522		2	18'-11"			WING 3 - HORIZ. - F.F. & B.F. TOP
	X423		4	4'-5"	X		WING 3 - AROUND PIPE 3A
	X724		1	9'-5"			WING 3 - VERT. - BACK FACE DOWEL

BILL OF BARS - WING 4

COATED: 0 LBS
UNCOATED: 950 LBS

	BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
	X425		1	17'-3"			WING 4 - HORIZ. - BOTTOM APRON AT B.F.
	X426		1	15'-2"			WING 4 - HORIZ. - BOTTOM APRON IN SLAB
	X727		17	10'-11"	X		WING 4 - VERT. - BACK FACE DOWEL
	X428		17	3'-1"			WING 4 - VERT. - FRONT FACE DOWEL
	X429		12	17'-2"			WING 4 - HORIZ. - F.F. & B.F.
*	X730		15	6'-7"		X	WING 4 - VERT. - BACK FACE
*	X431		15	6'-7"		X	WING 4 - VERT. - FRONT FACE
	X432		1	7'-5"			WING 4 - VERT. - F.F. AT WALL
	X733		1	7'-5"			WING 4 - VERT. - B.F. AT WALL
	X434		1	5'-9"			WING 4 - VERT. - F.F. AT TIP
	X735		1	5'-9"			WING 4 - VERT. - B.F. AT TIP
*	X436		4	10'-1"		X	WING 4 - HORIZ. - F.F. & B.F.
	X537		2	16'-4"			WING 4 - HORIZ. - F.F. & B.F. AT TOP

BAR SERIES TABLE		
BAR MARK	NO. REQ'D	LENGTH
W410	1 SERIES OF 12	1'-9" - 4'-7"
W511	1 SERIES OF 11	2'-0" - 4'-7"
W412	2 SERIES OF 3	3'-5" - 11'-3"

BUNDLE AND TAG BARS SEPARATELY

BAR SERIES TABLE		
BAR MARK	NO. REQ'D	LENGTH
W426	1 SERIES OF 8	1'-11" - 4'-5"
W527	1 SERIES OF 8	1'-11" - 4'-5"
W428	2 SERIES OF 3	2'-11" - 8'-5"

BUNDLE AND TAG BARS SEPARATELY

BAR SERIES TABLE		
BAR MARK	NO. REQ'D	LENGTH
X718	1 SERIES OF 9	3'-0" - 5'-10"
X419	1 SERIES OF 12	1'-6" - 5'-6"
X420	1 SERIES OF 6	5'-6" - 8'-5"
X521	2 SERIES OF 4	3'-6" - 12'-1"

BUNDLE AND TAG BARS SEPARATELY

BAR SERIES TABLE		
BAR MARK	NO. REQ'D	LENGTH
X530	1 SERIES OF 15	5'-11" - 7'-4"
X431	1 SERIES OF 15	5'-11" - 7'-4"
X436	2 SERIES OF 2	5'-4" - 14'-11"

BUNDLE AND TAG BARS SEPARATELY

BILL OF BARS - WEST APRON

COATED: 0 LBS
UNCOATED: 620 LBS

	BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
	A401		32	3'-9"	X		WEST APRON - VERT. - CUTOFF WALL
	A402		4	15'-7"			WEST APRON - HORIZ. - CUTOFF WALL STAGE 1
	A403		4	19'-0"			WEST APRON - HORIZ. - CUTOFF WALL STAGE 2
*	A404		5	6'-0"		X	WEST APRON - HORIZ. - STAGE 1
	A405		22	11'-4"			WEST APRON - HORIZ. - STAGE 1 & 2
*	A406		5	6'-4"		X	WEST APRON - HORIZ. - STAGE 2
*	A407		11	13'-0"		X	WEST APRON - TRANS. - STAGE 1
	A408		1	14'-6"			WEST APRON - TRANS. - AT WING 1
*	A409		11	16'-7"		X	WEST APRON - TRANS. - STAGE 2
	A410		1	10'-7"			WEST APRON - TRANS. - AT WING 2

BAR SERIES TABLE		
BAR MARK	NO. REQ'D	LENGTH
A404	1 SERIES OF 5	2'-3" - 9'-7"
A406	1 SERIES OF 5	3'-2" - 9'-6"
A407	1 SERIES OF 11	9'-8" - 16'-3"
A409	1 SERIES OF 11	13'-11" - 19'-3"

BUNDLE AND TAG BARS SEPARATELY

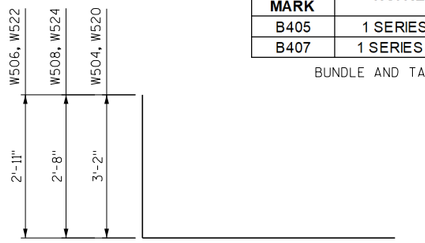
BILL OF BARS - EAST APRON

COATED: 0 LBS
UNCOATED: 940 LBS

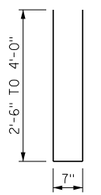
	BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
	B401		30	5'-9"	X		EAST APRON - VERT. - CUTOFF WALL
	B402		6	14'-7"			EAST APRON - HORIZ. - CUTOFF WALL STAGE 1
	B403		6	16'-11"			EAST APRON - HORIZ. - CUTOFF WALL STAGE 2
	B404		27	17'-6"			EAST APRON - HORIZ. - STAGE 1 & 2
*	B405		3	9'-3"		X	EAST APRON - HORIZ. - STAGE 2
	B406		17	14'-7"			EAST APRON - TRANS. - STAGE 1
*	B407		17	15'-10"		X	EAST APRON - TRANS. - STAGE 2
	B408		1	18'-7"			EAST APRON - TRANS. - WING 3

BAR SERIES TABLE		
BAR MARK	NO. REQ'D	LENGTH
B405	1 SERIES OF 3	3'-11" - 14'-6"
B407	1 SERIES OF 17	14'-2" - 17'-6"

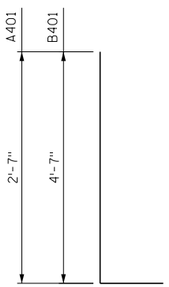
BUNDLE AND TAG BARS SEPARATELY



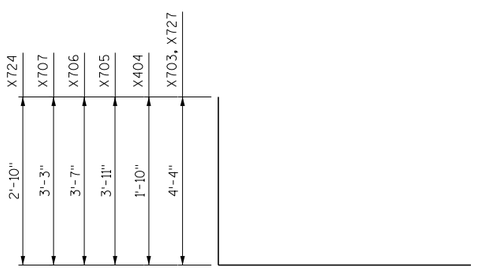
W504, W506, W508, W520, W522, W524



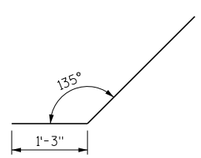
X420



A401, B401



X703, X404, X705, X706, X707, X724, X727



X423

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

BILL OF BARS 1

SHEET 10 OF 13
306

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STATE PROJECT NUMBER

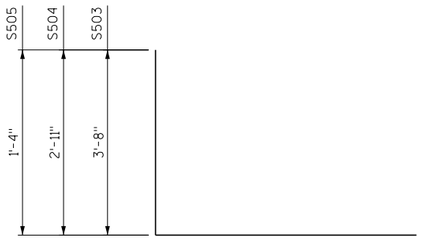
3670-01-71

BILL OF BARS - WEST WALL — COATED: 0 LBS; UNCOATED: 580 LBS

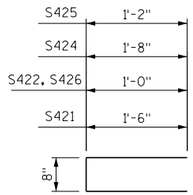
BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
S401		4	6'-3"			WEST WALL - HORIZ. - APRON STAGE 1 - LAP 1'
S402		4	9'-3"			WEST WALL - HORIZ. - APRON STAGE 2 - LAP 1'
S503		11	8'-9"	X		WEST WALL - VERT. B.F. DOWEL
S504		6	8'-0"	X		WEST WALL - VERT - B.F. DOWEL - INCLINED
S505		3	6'-5"	X		WEST WALL - VERT. - B.F. UNDER PIPE 3
S406		7	2'-10"			WEST WALL - VERT. - F.F. DOWEL
S407		6	2'-11"			WEST WALL - VERT. - F.F. DOWEL - INCLINED
S408		3	1'-4"			WEST WALL - VERT. - F.F. UNDER PIPE 3
S409		1	5'-4"	X		WEST WALL - HORIZ. - BTWN PIPES 2 & 3
S410		14	2'-6"	X		WEST WALL - HORIZ. - BTWN PIPES
S411		7	4'-0"	X		WEST WALL - HORIZ. - B.F. WING 1 CORNER
S412		7	3'-7"	X		WEST WALL - HORIZ. - F.F. WING 1 CORNER
S413		7	3'-10"	X		WEST WALL - HORIZ. - B.F. WING 2 CORNER
S414		7	3'-7"	X		WEST WALL - HORIZ. - F.F. WING 2 CORNER
S515		11	4'-10"			WEST WALL - VERT. - B.F.
S416		7	4'-10"			WEST WALL - VERT. - F.F.
S417		2	4'-10"	X		WEST WALL - HORIZ. - BTWN PIPES 1 & 2
S418		2	4'-10"	X		WEST WALL - HORIZ. - BTWN PIPES 2 & 3
S419		4	8'-3"			WEST WALL - HORIZ. - STAGE 1 OVER PIPE 1
S420		4	13'-6"			WEST WALL - HORIZ. - STAGE 2 OVER PIPES
S421		4	3'-6"	X		WEST WALL - VERT. - OVER PIPES 1 & 2
S422		4	2'-6"	X		WEST WALL - VERT. - OVER PIPES 1 & 2
S423		4	3'-0"	X		WEST WALL - VERT. - OVER PIPES 1 & 2
S424		2	3'-10"	X		WEST WALL - VERT. - OVER PIPE 3
S425		2	2'-10"	X		WEST WALL - VERT. - OVER PIPE 3
S426		1	2'-6"	X		WEST WALL - VERT. - OVER PIPE 3
S427		8	4'-10"	X		WEST WALL - VERT. - AROUND PIPES 1 &2
S428		4	4'-10"	X		WEST WALL - VERT. - AROUND PIPE 3
S429		2	4'-0"			WEST WALL - HORIZ. - OVER PIPE 3

BILL OF BARS - EAST WALL — COATED: 0 LBS; UNCOATED: 1,790 LBS

BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
R401		2	12'-3"			EAST WALL - HORIZ. - APRON STAGE 1
R402		4	8'-10"			EAST WALL - HORIZ. - APRON STAGE 2 - LAP 1'
R803		16	15'-3"	X		EAST WALL - VERT. - B.F. DOWEL
R404		11	3'-0"			EAST WALL - VERT. - F.F. DOWEL
R505		9	12'-0"	X		EAST WALL - VERT. - B.F. DOWEL INCLINED
R506		3	10'-11"	X		EAST WALL - VERT. - B.F. DOWEL UNDER PIPE 3
R407		9	2'-10"			EAST WALL - VERT. - F.F. DOWEL INCLINED
R408		3	1'-8"			EAST WALL - VERT. - F.F. DOWEL UNDER PIPE 3
R409		2	5'-1"			EAST WALL - HORIZ. - UNDER PIPE 1A
R410		2	4'-9"			EAST WALL - HORIZ. - UNDER PIPE 1A
R411		4	3'-8"	X		EAST WALL - HORIZ. - BTWN PIPES 1 & 1A PAIRS
R412		2	4'-6"	X		EAST WALL - HORIZ. - BTWN PIPES 1 & 1A PAIR
R413		14	2'-8"	X		EAST WALL - HORIZ. - BTWN PIPES PAIRS
R414		2	5'-0"	X		EAST WALL - HORIZ. - BTWN PIPES PAIRS
R415		2	5'-0"	X		EAST WALL - HORIZ. - BTWN PIPES PAIRS
R416		2	6'-11"			EAST WALL - HORIZ. - UNDER PIPE 3
R417		4	3'-3"	X		EAST WALL - HORIZ. - WING 3 CORNER AT PIPE 3A
R418		9	5'-0"	X		EAST WALL - HORIZ. - B.F. WING 4 CORNER
R419		9	4'-4"	X		EAST WALL - HORIZ. - F.F. WING 4 CORNER
R420		7	4'-4"	X		EAST WALL - HORIZ. - B.F. WING 3 CORNER
R421		7	3'-9"	X		EAST WALL - HORIZ. - F.F. WING 3 CORNER
R822		16	7'-4"			EAST WALL - VERT. - B.F.
R423		11	7'-5"			EAST WALL - VERT. - F.F.
R424		8	13'-0"			EAST WALL - HORIZ. - OVER PIPES STAGE 1
R425		8	13'-2"			EAST WALL - HORIZ. - OVER PIPES STAGE 2
R426		4	3'-5"			EAST WALL - VERT. - OVER PIPE 1A
R427		2	3'-3"			EAST WALL - VERT. - OVER PIPE 1A
R428		8	4'-2"			EAST WALL - VERT. - OVER 66" PIPE ARCHES
R429		8	3'-6"			EAST WALL - VERT. - OVER 66" PIPE ARCHES
R430		8	3'-2"			EAST WALL - VERT. - OVER 66" PIPE ARCHES
R431		4	3'-11"			EAST WALL - VERT. - OVER 53" PIPE ARCH
R432		4	3'-5"			EAST WALL - VERT. - OVER 53" PIPE ARCH
R433		2	3'-4"			EAST WALL - VERT. - OVER 53" PIPE ARCH
R434		8	4'-1"			EAST WALL - INCLINED AROUND PIPE 1A
R435		4	3'-3"			EAST WALL - HORIZ. - PIPE 1A
R436		8	6'-6"	X		EAST WALL - VERT. - AROUND 66" PIPE ARCHES
R437		4	4'-9"			EAST WALL - HORIZ. - ABOVE 66" PIPE ARCHES
R438		4	6'-0"	X		EAST WALL - VERT. - AROUND 53" PIPE ARCH
R439		2	4'-6"			EAST WALL - HORIZ. - ABOVE 53" PIPE ARCH



S503, S504, S505



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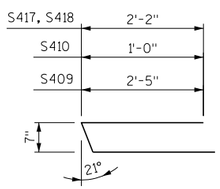
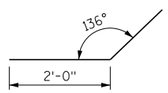
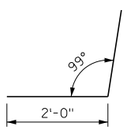


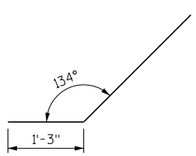
S409, S410, S417, S418



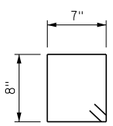
S411, S412
2'-0" LEG IN WING



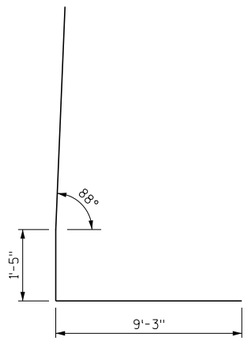
S413, S414
2'-0" LEG IN WING



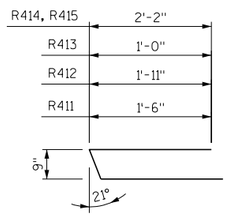
S427, S428



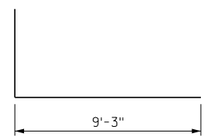
S423



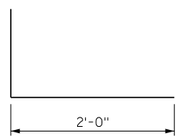
R803, R505



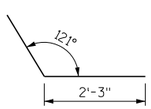
R411, R412, R413, R414, R415



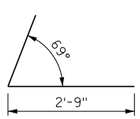
R506



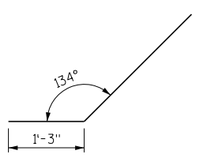
R417
2'-0" LEG IN WALL



R420, R421
2'-3" LEG IN WING



R418, R419
2'-9" LEG IN WING



R436, R438

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

BILL OF BARS 2

SHEET 11 OF 13
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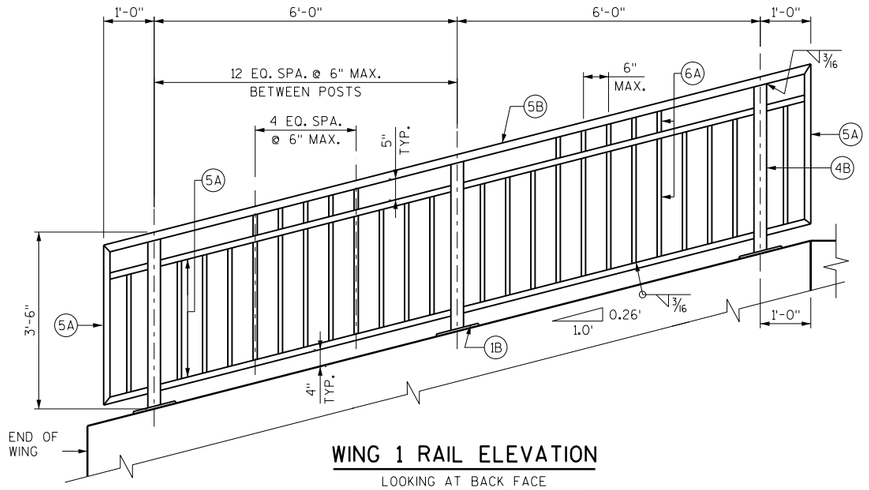
8

8

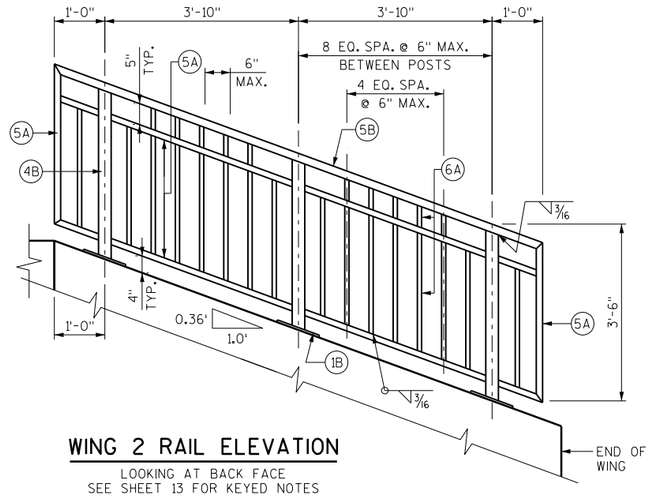
STATE PROJECT NUMBER

3670-01-71



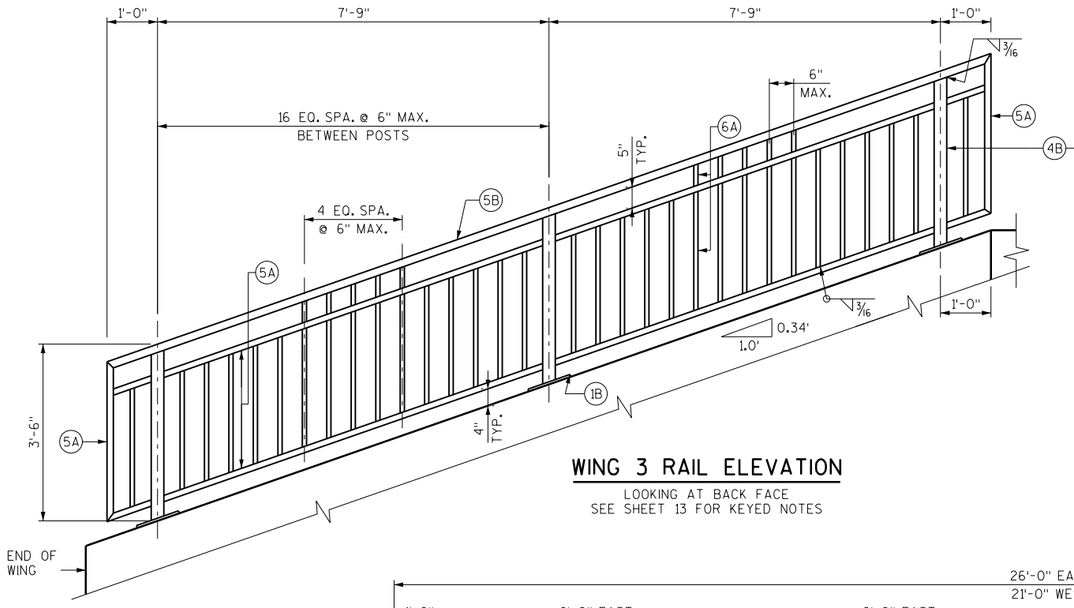
WING 1 RAIL ELEVATION

LOOKING AT BACK FACE
SEE SHEET 13 FOR KEYED NOTES



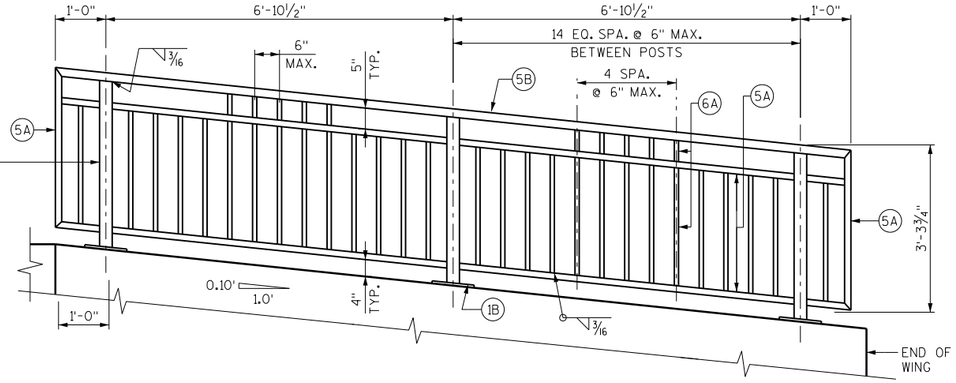
WING 2 RAIL ELEVATION

LOOKING AT BACK FACE
SEE SHEET 13 FOR KEYED NOTES



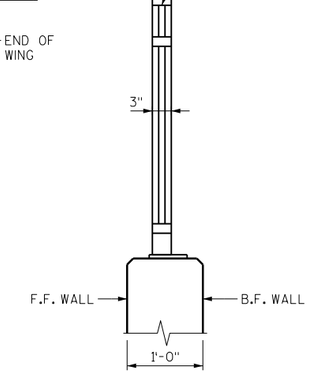
WING 3 RAIL ELEVATION

LOOKING AT BACK FACE
SEE SHEET 13 FOR KEYED NOTES

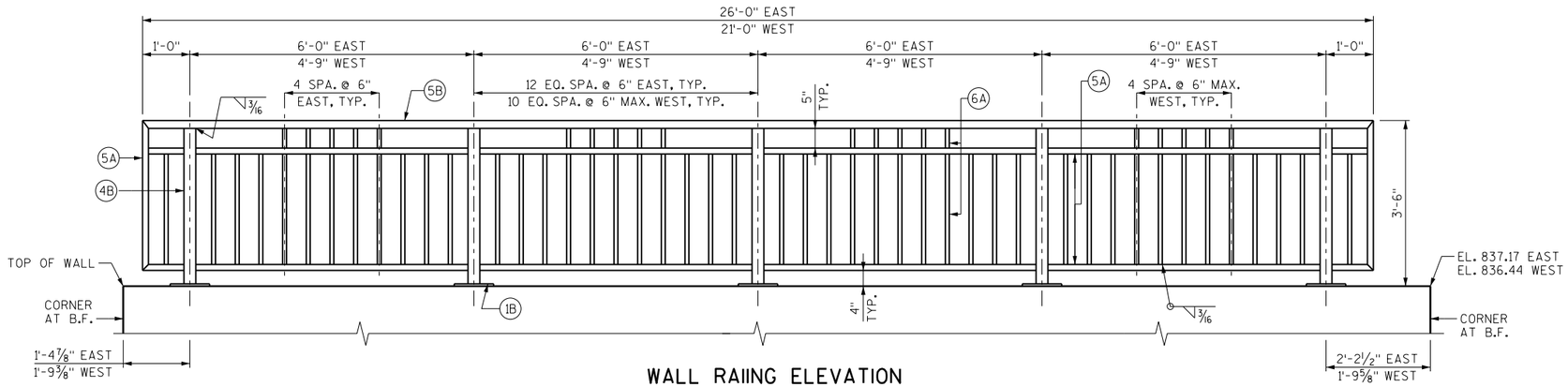


WING 4 RAIL ELEVATION

LOOKING AT BACK FACE
SEE SHEET 13 FOR KEYED NOTES



TYPICAL SECTION THRU RAIL



WALL RAIING ELEVATION

LOOKING AT BACK FACE
SEE SHEET 13 FOR KEYED NOTES

8

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

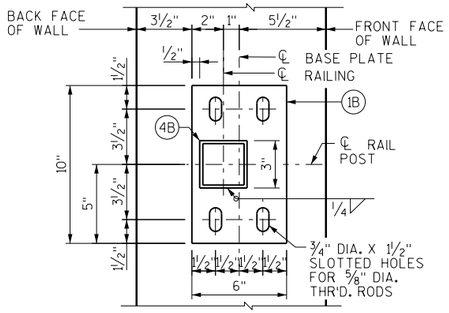
DRAWN BY VJD | PLANS CK'D. BRS

COMBINATION RAIL TYPE "C4" ELEVATIONS

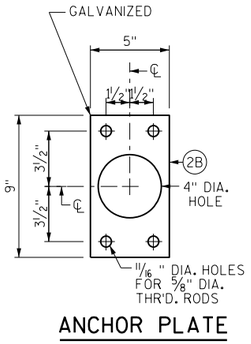
SHEET 12 OF 13
308

STATE PROJECT NUMBER

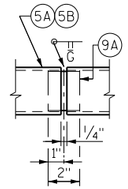
3670-01-71



TYPICAL RAIL POST BASE PLATE

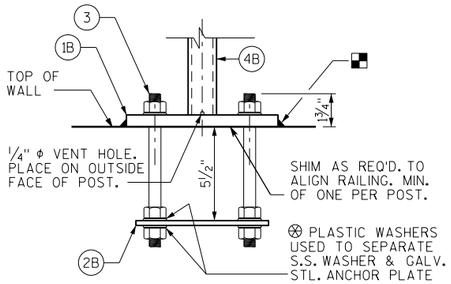


ANCHOR PLATE



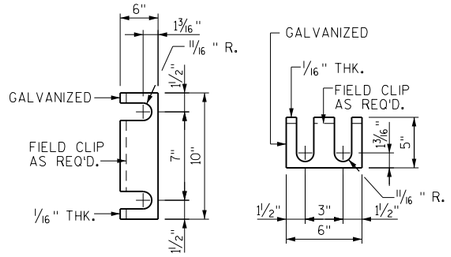
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



ANCHORAGE FOR RAIL POSTS

NTOE: ANCHOR NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



RAIL POST SHIM DETAIL

(2 SETS PER POST)

LEGEND

(1B) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES.

(2B) ¼" X 5" X 9" ANCHOR PLATE WITH 11/16 " DIA. HOLES FOR THR'D RODS NO. 3.

(3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OR SAME ALLOT GROUP. ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS ⅝-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

(4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.

(5B) STRUCTURAL TUBING 3" X 2" X 3/16" RAILS. WELD TO NO. 1 & 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.

(9A) RECTANGULAR SLEEVE FABRICATED FORM 3/16" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. 1'-4" AT FIELD ERECTION JOINTS.

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C4", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STD. COLOR NO. 27038, BLACK.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE M-11-0010

DRAWN BY VJD | PLANS CK'D. BRS

COMBINATION RAIL TYPE "C4" DETAILS

SHEET 13 OF 13

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STH 73

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
69+38.003	6938.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
69+40	6940.00	2.00	0.00	0.00	0.00	0	0	0	0	0	0
69+45	6945.00	5.00	0.00	0.00	0.00	0	0	0	0	0	0
69+50	6950.00	5.00	0.00	0.00	0.00	0	0	0	0	0	0
69+55	6955.00	5.00	10.56	0.00	0.72	1	0	0	1	0	1
69+60	6960.00	5.00	109.02	0.00	1.36	11	0	0	12	0	12
69+65	6965.00	5.00	118.12	0.00	0.01	21	0	0	33	0	33
69+70	6970.00	5.00	128.43	0.00	0.23	23	0	0	56	0	56
69+75	6975.00	5.00	131.10	0.00	0.00	24	0	0	80	0	80
69+80	6980.00	5.00	121.36	0.00	0.18	23	0	0	103	0	103
69+85	6985.00	5.00	115.56	0.00	0.17	22	0	0	125	0	125
69+90	6990.00	5.00	109.70	0.00	0.11	21	0	0	146	0	146
69+95	6995.00	5.00	103.79	0.00	0.09	20	0	0	166	0	166
70+00	7000.00	5.00	98.10	0.00	0.09	19	0	0	185	0	185
70+05	7005.00	5.00	104.06	0.00	0.25	19	0	0	204	0	204
70+10	7010.00	5.00	110.79	0.00	0.16	20	0	0	224	0	224
70+15	7015.00	5.00	117.58	0.00	0.12	21	0	0	245	0	245
70+20	7020.00	5.00	125.67	0.00	0.00	23	0	0	268	0	268
70+25	7025.00	5.00	137.00	0.00	0.00	24	0	0	292	0	292
70+30	7030.00	5.00	129.78	0.00	0.00	25	0	0	317	0	317
70+35	7035.00	5.00	115.06	0.00	0.31	23	0	0	340	0	340
70+40	7040.00	5.00	110.68	0.00	1.36	21	0	0	361	0	361
70+44.586	7044.59	4.59	1.52	0.00	1.11	10	0	0	371	0	371
				STH 73 TOTAL		**371**	**0**	**0**			

STH 89

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
02+47.34	247.34	0.00	0.00	0.00	0.00	0	0	0	0	0	0
02+50	250.00	2.66	0.13	0.00	0.00	0	0	0	0	0	0
02+75	275.00	25.00	4.25	0.00	0.00	2	0	0	2	0	2
03+00	300.00	25.00	59.70	0.00	2.23	30	0	1	32	1	31
03+25	325.00	25.00	65.07	0.00	5.16	58	0	3	90	5	85
03+50	350.00	25.00	70.70	0.00	6.39	63	0	5	153	12	141
03+63.405	363.40	13.40	74.45	0.00	8.56	36	0	4	189	17	172
03+65	365.00	1.60	72.99	0.00	8.75	4	0	1	193	19	174
03+70	370.00	5.00	69.87	0.00	7.28	13	0	1	206	20	186
03+75	375.00	5.00	70.26	0.00	7.72	13	0	1	219	21	198
03+80	380.00	5.00	76.81	0.00	7.84	14	0	1	233	23	210
03+85	385.00	5.00	92.81	0.00	0.46	16	0	1	249	24	225
03+90	390.00	5.00	96.56	0.00	0.00	18	0	0	267	24	243
03+95	395.00	5.00	92.79	0.00	0.00	18	0	0	285	24	261
04+00	400.00	5.00	86.30	0.00	0.00	17	0	0	302	24	278
04+05	405.00	5.00	80.98	0.00	0.00	15	0	0	317	24	293
04+10	410.00	5.00	75.61	0.00	0.00	14	0	0	331	24	307
04+15	415.00	5.00	78.63	0.00	0.00	14	0	0	345	24	321
04+20	420.00	5.00	80.82	0.00	0.00	15	0	0	360	24	336
04+25	425.00	5.00	84.06	0.00	0.00	15	0	0	375	24	351
04+30	430.00	5.00	86.48	0.00	0.00	16	0	0	391	24	367
04+35	435.00	5.00	88.22	0.00	0.00	16	0	0	407	24	383
04+40	440.00	5.00	87.33	0.00	1.20	16	0	0	423	24	399
04+45	445.00	5.00	78.33	0.00	4.38	15	0	1	438	25	413
04+50	450.00	5.00	72.85	0.00	2.87	14	0	1	452	27	425
04+55	455.00	5.00	70.73	0.00	1.35	13	0	0	465	27	438
04+59.514	459.51	4.51	69.95	0.00	1.47	12	0	0	477	27	450
04+75	475.00	15.49	67.00	0.00	3.89	39	0	2	516	29	487
05+00	500.00	25.00	66.96	0.00	4.97	62	0	4	578	35	543
05+25	525.00	25.00	69.31	0.00	7.65	63	0	6	641	43	598
05+50	550.00	25.00	71.59	0.00	6.76	65	0	7	706	52	654
05+75	575.00	25.00	70.17	0.00	13.47	66	0	9	772	64	708
06+00	600.00	25.00	71.13	0.00	13.09	65	0	12	837	80	757
06+25	625.00	25.00	68.91	0.00	13.90	65	0	12	902	96	806
06+50	650.00	25.00	68.44	0.00	11.78	64	0	12	966	112	854
06+75	675.00	25.00	68.48	0.00	11.94	63	0	11	1,029	126	903
07+00	700.00	25.00	66.45	0.00	14.20	62	0	12	1,091	142	949
07+25	725.00	25.00	66.74	0.00	9.79	62	0	11	1,153	157	996
07+50	750.00	25.00	66.48	0.00	7.18	62	0	8	1,215	168	1,047
07+75	775.00	25.00	65.56	0.00	8.94	61	0	7	1,276	177	1,099
08+00	800.00	25.00	65.40	0.00	7.94	61	0	8	1,337	188	1,149
08+25	825.00	25.00	67.28	0.00	6.39	61	0	7	1,398	197	1,201
08+50	850.00	25.00	69.17	0.00	7.27	63	0	6	1,461	205	1,256
08+75	875.00	25.00	74.60	0.00	8.09	67	0	7	1,528	214	1,314
09+00	900.00	25.00	78.37	0.00	0.37	71	0	4	1,599	219	1,380
09+25	925.00	25.00	82.22	0.00	0.10	74	0	0	1,673	219	1,454
09+50	950.00	25.00	80.54	0.00	5.37	75	0	3	1,748	223	1,525
09+75	975.00	25.00	76.35	0.00	8.16	73	0	6	1,821	231	1,590
10+00	1000.00	25.00	66.81	0.00	13.06	66	0	10	1,887	245	1,642
					PAGE TOTAL	1,887.00	0.00	184.00			

STH 89 CONTINUED

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
10+25	1025.00	25.00	64.03	0.00	13.91	61	0	12	1,948	261	1,687
10+50	1050.00	25.00	65.57	0.00	18.04	60	0	15	2,008	281	1,727
10+75	1075.00	25.00	67.38	0.00	18.47	62	0	17	2,070	303	1,767
11+00	1100.00	25.00	67.71	0.00	18.41	63	0	17	2,133	326	1,807
11+25	1125.00	25.00	70.07	0.00	17.08	64	0	16	2,197	347	1,850
11+50	1150.00	25.00	70.46	0.00	20.37	65	0	17	2,262	370	1,892
11+75	1175.00	25.00	71.58	0.00	19.32	66	0	18	2,328	394	1,934
12+00	1200.00	25.00	73.61	0.00	18.90	67	0	18	2,395	418	1,977
12+25	1225.00	25.00	73.24	0.00	19.21	68	0	18	2,463	442	2,021
12+50	1250.00	25.00	73.62	0.00	17.81	68	0	17	2,531	464	2,067
12+75	1275.00	25.00	73.55	0.00	28.33	68	0	21	2,599	492	2,107
13+00	1300.00	25.00	71.79	0.00	18.39	67	0	22	2,666	521	2,145
13+25	1325.00	25.00	71.86	0.00	14.86	67	0	15	2,733	541	2,192
13+50	1350.00	25.00	76.20	0.00	15.78	69	0	14	2,802	560	2,242
13+75	1375.00	25.00	80.04	0.00	18.88	72	0	16	2,874	581	2,293
14+00	1400.00	25.00	82.71	0.00	5.19	75	0	11	2,949	596	2,353
14+25	1425.00	25.00	94.15	0.00	3.46	82	0	4	3,031	601	2,430
14+50	1450.00	25.00	72.31	0.00	1.69	77	0	2	3,108	604	2,504
14+75	1475.00	25.00	65.14	0.00	8.28	64	0	5	3,172	610	2,562
15+00	1500.00	25.00	62.25	0.00	24.06	59	0	15	3,231	630	2,601
15+25	1525.00	25.00	64.01	0.00	16.06	58	0	19	3,289	656	2,633
15+50	1550.00	25.00	67.13	0.00	13.96	61	0	14	3,350	674	2,676
15+75	1575.00	25.00	72.94	0.00	12.55	65	0	12	3,415	690	2,725
16+00	1600.00	25.00	69.77	0.00	14.35	66	0	12	3,481	706	2,775
16+25	1625.00	25.00	63.86	0.00	26.70	62	0	19	3,543	732	2,812
16+50	1650.00	25.00	62.79	0.00	18.08	59	0	21	3,602	759	2,843
16+75	1675.00	25.00	58.28	0.00	20.70	56	0	18	3,658	783	2,875
17+00	1700.00	25.00	60.65	0.00	27.19	55	0	22	3,713	813	2,900
17+25	1725.00	25.00	62.14	0.00	22.96	57	0	23	3,770	843	2,927
17+50	1750.00	25.00	64.92	0.00	21.43	59	0	21	3,829	871	2,958
17+75	1775.00	25.00	73.00	0.00	17.45	64	0	18	3,893	895	2,998
18+00	1800.00	25.00	76.74	0.00	13.46	69	0	14	3,962	914	3,048
18+14.713	1814.71	14.71	83.95	0.00	10.64	44	0	7	4,006	923	3,083
18+15	1815.00	0.29	84.21	0.00	10.56	1	0	0	4,007	923	3,084
18+20	1820.00	5.00	100.91	0.00	12.54	17	0	2	4,024	926	3,098
18+25	1825.00	5.00	104.31	0.00	11.33	19	0	2	4,043	928	3,115
18+30	1830.00	5.00	110.16	0.00	11.15	20	0	2	4,063	931	3,132
18+35	1835.00	5.00	119.04	0.00	10.68	21	0	2	4,084	934	3,150
18+40	1840.00	5.00	129.35	0.00	10.14	23	0	2	4,107	936	3,171
18+45	1845.00	5.00	117.11	0.00	9.91	23	0	2	4,130	939	3,191
18+50	1850.00	5.00	107.18	0.00	9.45	21	0	2	4,151	942	3,209
18+55	1855.00	5.00	97.66	0.00	8.88	19	0	2	4,170	944	3,226
18+59.981	1859.98	4.98	88.25	0.00	8.22	17	0	2	4,187	947	3,240
18+60.062	1860.06	0.08	92.54	0.00	8.21	0	0	0	4,187	947	3,240
18+65	1865.00	4.94	99.97	0.00	7.87	18	0	1	4,205	948	3,257
18+70	1870.00	5.00	107.71	0.00	7.75	19	0	1	4,224	950	3,274
18+75	1875.00	5.00	115.82	0.00	7.62	21	0	1	4,245	951	3,294
18+80	1880.00	5.00	124.07	0.00	7.66	22	0	1	4,267	952	3,315
18+85	1885.00	5.00	126.20	0.00	8.86	23	0	2	4,290	955	3,335
18+90	1890.00	5.00	115.83	0.00	15.08	22	0	2	4,312	958	3,354
			PAGE TOTAL			**2,425.00**	**0.00**	**536.00**			

STH 89 CONTINUED

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
18+95	1895.00	5.00	109.29	0.00	25.30	21	0	4	4,333	963	3,370
19+00	1900.00	5.00	106.04	0.00	33.81	20	0	5	4,353	970	3,383
19+05	1905.00	5.00	104.94	0.00	31.14	20	0	6	4,373	978	3,395
19+06.172	1906.17	1.17	104.35	0.00	31.09	5	0	1	4,378	979	3,399
19+25	1925.00	18.83	101.36	0.00	43.01	72	0	26	4,450	1,013	3,437
19+50	1950.00	25.00	100.31	0.00	36.29	93	0	37	4,543	1,063	3,480
19+75	1975.00	25.00	103.57	0.00	30.60	94	0	31	4,637	1,104	3,533
20+00	2000.00	25.00	105.15	0.00	27.09	97	0	27	4,734	1,140	3,594
20+25	2025.00	25.00	109.42	0.00	24.17	99	0	24	4,833	1,172	3,661
20+50	2050.00	25.00	115.63	0.00	21.60	104	0	21	4,937	1,200	3,737
20+75	2075.00	25.00	120.73	0.00	20.88	109	0	20	5,046	1,226	3,820
21+00	2100.00	25.00	126.26	0.00	18.18	114	0	18	5,160	1,250	3,910
21+25	2125.00	25.00	128.80	0.00	17.93	118	0	17	5,278	1,273	4,005
21+50	2150.00	25.00	130.65	0.00	18.53	120	0	17	5,398	1,295	4,103
21+75	2175.00	25.00	132.45	0.00	14.72	122	0	15	5,520	1,315	4,205
22+00	2200.00	25.00	137.52	0.00	17.55	125	0	15	5,645	1,335	4,310
22+25	2225.00	25.00	147.77	0.00	19.40	132	0	17	5,777	1,358	4,419
22+50	2250.00	25.00	155.95	0.00	16.14	141	0	16	5,918	1,379	4,539
22+75	2275.00	25.00	115.32	0.00	12.98	126	0	13	6,044	1,397	4,648
23+00	2300.00	25.00	113.86	0.00	8.79	106	0	10	6,150	1,410	4,740
23+25	2325.00	25.00	111.20	0.00	9.38	104	0	8	6,254	1,420	4,834
23+50	2350.00	25.00	109.22	0.00	10.97	102	0	9	6,356	1,432	4,924
23+75	2375.00	25.00	110.02	0.00	7.85	101	0	9	6,457	1,444	5,013
24+00	2400.00	25.00	110.97	0.00	6.46	102	0	7	6,559	1,454	5,105
24+25	2425.00	25.00	111.93	0.00	5.08	103	0	5	6,662	1,460	5,202
24+50	2450.00	25.00	112.36	0.00	4.45	104	0	4	6,766	1,466	5,300
24+75	2475.00	25.00	111.81	0.00	4.51	104	0	4	6,870	1,471	5,399
25+00	2500.00	25.00	111.36	0.00	4.60	103	0	4	6,973	1,476	5,497
25+25	2525.00	25.00	111.32	0.00	3.51	103	0	4	7,076	1,482	5,594
25+50	2550.00	25.00	111.16	0.00	4.11	103	0	4	7,179	1,487	5,692
25+75	2575.00	25.00	111.64	0.00	2.88	103	0	3	7,282	1,491	5,791
26+00	2600.00	25.00	116.84	0.00	0.97	106	0	2	7,388	1,494	5,894
26+25	2625.00	25.00	133.40	0.00	0.00	116	0	0	7,504	1,494	6,010
26+29.464	2629.46	4.46	126.41	0.00	0.00	21	0	0	7,525	1,494	6,031
26+30	2630.00	0.54	126.41	0.00	0.06	3	0	0	7,528	1,494	6,034
26+35	2635.00	5.00	127.33	0.00	0.00	23	0	0	7,551	1,494	6,057
26+40	2640.00	5.00	124.95	0.00	0.00	23	0	0	7,574	1,494	6,080
26+45	2645.00	5.00	121.97	0.00	0.00	23	0	0	7,597	1,494	6,103
26+50	2650.00	5.00	110.28	0.00	0.00	22	0	0	7,619	1,494	6,125
26+55	2655.00	5.00	104.78	0.00	0.00	20	0	0	7,639	1,494	6,145
26+60	2660.00	5.00	105.28	0.00	0.16	19	0	0	7,658	1,494	6,164
26+65	2665.00	5.00	107.01	0.00	0.17	20	0	0	7,678	1,494	6,184
26+70	2670.00	5.00	109.22	0.00	0.16	20	0	0	7,698	1,494	6,204
26+75	2675.00	5.00	112.25	0.00	0.16	21	0	0	7,719	1,494	6,225
26+79.425	2679.42	4.42	119.77	0.00	0.50	19	0	0	7,738	1,494	6,244
26+79.425	2679.42	0.00	0.00	0.00	0.00	0	0	0	7,738	1,494	6,244
27+00	2700.00	20.58	136.74	0.00	0.12	52	0	0	7,790	1,494	6,296
27+25	2725.00	25.00	120.03	0.00	0.09	119	0	0	7,909	1,494	6,415
27+50	2750.00	25.00	119.53	0.00	0.05	111	0	0	8,020	1,494	6,526
27+75	2775.00	25.00	138.61	0.00	0.00	120	0	0	8,140	1,494	6,646
				PAGE TOTAL	3,828.00		0.00	403.00			

STH 89 CONTINUED

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
28+00	2800.00	25.00	125.99	0.00	0.00	123	0	0	8,263	1,494	6,769
28+25	2825.00	25.00	124.24	0.00	0.00	116	0	0	8,379	1,494	6,885
28+50	2850.00	25.00	138.27	0.00	0.00	122	0	0	8,501	1,494	7,007
28+75	2875.00	25.00	126.70	0.00	0.00	123	0	0	8,624	1,494	7,130
29+00	2900.00	25.00	122.55	0.00	0.04	115	0	0	8,739	1,494	7,245
29+25	2925.00	25.00	118.05	0.00	0.24	111	0	0	8,850	1,494	7,356
29+50	2950.00	25.00	112.42	0.00	0.21	107	0	0	8,957	1,494	7,463
29+75	2975.00	25.00	114.20	0.00	0.17	105	0	0	9,062	1,494	7,568
30+00	3000.00	25.00	106.51	0.00	2.90	102	0	1	9,164	1,495	7,669
30+25	3025.00	25.00	105.71	0.00	2.12	98	0	2	9,262	1,498	7,764
30+50	3050.00	25.00	106.70	0.00	2.06	98	0	2	9,360	1,500	7,860
30+75	3075.00	25.00	125.27	0.00	1.37	107	0	2	9,467	1,503	7,964
31+00	3100.00	25.00	101.62	0.00	1.67	105	0	1	9,572	1,504	8,068
31+25	3125.00	25.00	98.65	0.00	1.82	93	0	2	9,665	1,507	8,158
31+50	3150.00	25.00	100.85	0.00	0.75	92	0	1	9,757	1,508	8,249
31+75	3175.00	25.00	89.48	0.00	6.15	88	0	3	9,845	1,512	8,333
32+00	3200.00	25.00	93.78	0.00	4.53	85	0	5	9,930	1,519	8,411
32+25	3225.00	25.00	95.94	0.00	2.24	88	0	3	10,018	1,523	8,495
32+50	3250.00	25.00	95.94	0.00	3.35	89	0	3	10,107	1,527	8,580
32+75	3275.00	25.00	102.58	0.00	1.23	92	0	2	10,199	1,530	8,670
33+00	3300.00	25.00	116.87	0.00	0.00	102	0	1	10,301	1,531	8,770
33+25	3325.00	25.00	115.84	0.00	0.68	108	0	0	10,409	1,531	8,878
33+50	3350.00	25.00	121.90	0.00	0.61	110	0	1	10,519	1,532	8,987
33+75	3375.00	25.00	106.66	0.00	1.26	106	0	1	10,625	1,533	9,092
34+00	3400.00	25.00	113.89	0.00	0.31	102	0	1	10,727	1,535	9,192
34+25	3425.00	25.00	108.76	0.00	2.39	103	0	1	10,830	1,536	9,294
34+50	3450.00	25.00	102.85	0.00	1.13	98	0	2	10,928	1,539	9,389
34+75	3475.00	25.00	117.48	0.00	0.00	102	0	1	11,030	1,540	9,490
35+00	3500.00	25.00	124.70	0.00	1.03	112	0	0	11,142	1,540	9,602
35+25	3525.00	25.00	107.57	0.00	0.84	108	0	1	11,250	1,541	9,709
35+50	3550.00	25.00	130.90	0.00	1.04	110	0	1	11,360	1,543	9,817
35+75	3575.00	25.00	104.26	0.00	1.26	109	0	1	11,469	1,544	9,925
36+00	3600.00	25.00	109.85	0.00	1.34	99	0	1	11,568	1,545	10,023
36+00.458	3600.46	0.46	110.15	0.00	1.33	2	0	0	11,570	1,545	10,025
36+05	3605.00	4.54	117.78	0.00	0.00	19	0	0	11,589	1,545	10,044
36+10	3610.00	5.00	118.70	0.00	1.08	22	0	0	11,611	1,545	10,066
36+10.051	3610.05	0.05	118.68	0.00	1.09	0	0	0	11,611	1,545	10,066
36+15	3615.00	4.95	120.27	0.00	0.04	22	0	0	11,633	1,545	10,088
36+20	3620.00	5.00	127.49	0.00	0.34	23	0	0	11,656	1,545	10,111
36+25	3625.00	5.00	144.35	0.00	0.00	25	0	0	11,681	1,545	10,136
36+30	3630.00	5.00	146.30	0.00	0.00	27	0	0	11,708	1,545	10,163
36+35	3635.00	5.00	134.42	0.00	0.00	26	0	0	11,734	1,545	10,189
36+40	3640.00	5.00	123.91	0.00	0.00	24	0	0	11,758	1,545	10,213
36+45	3645.00	5.00	111.48	0.00	0.00	22	0	0	11,780	1,545	10,235
36+50	3650.00	5.00	96.25	0.00	0.00	19	0	0	11,799	1,545	10,254
36+55	3655.00	5.00	95.62	0.00	0.00	18	0	0	11,817	1,545	10,272
36+60	3660.00	5.00	109.30	0.00	0.00	19	0	0	11,836	1,545	10,291
36+65	3665.00	5.00	120.82	0.00	0.00	21	0	0	11,857	1,545	10,312
36+70	3670.00	5.00	132.15	0.00	0.00	23	0	0	11,880	1,545	10,335
36+75	3675.00	5.00	135.42	0.00	0.22	25	0	0	11,905	1,545	10,360
				PAGE TOTAL	3,765.00		0.00	39.00			

STH 89 CONTINUED

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
36+80	3680.00	5.00	131.23	0.00	0.93	25	0	0	11,930	1,545	10,385
36+85	3685.00	5.00	113.83	0.00	1.01	23	0	0	11,953	1,545	10,408
36+90	3690.00	5.00	106.97	0.00	1.54	20	0	0	11,973	1,545	10,428
36+91.183	3691.18	1.18	106.78	0.00	2.00	5	0	0	11,978	1,545	10,433
36+95	3695.00	3.82	102.21	0.00	1.82	15	0	0	11,993	1,545	10,448
37+00	3700.00	5.00	96.18	0.00	2.10	18	0	0	12,011	1,545	10,466
37+02.288	3702.29	2.29	93.56	0.00	3.78	8	0	0	12,019	1,545	10,474
37+25	3725.00	22.71	96.74	0.00	5.25	80	0	4	12,099	1,551	10,548
37+50	3750.00	25.00	106.98	0.00	1.87	94	0	3	12,193	1,555	10,638
37+75	3775.00	25.00	110.49	0.00	0.79	101	0	1	12,294	1,556	10,738
38+00	3800.00	25.00	118.12	0.00	0.70	106	0	1	12,400	1,557	10,843
38+25	3825.00	25.00	109.80	0.00	1.82	106	0	1	12,506	1,559	10,947
38+50	3850.00	25.00	111.69	0.00	2.20	103	0	2	12,609	1,561	11,048
38+75	3875.00	25.00	122.74	0.00	0.11	109	0	1	12,718	1,563	11,155
39+00	3900.00	25.00	115.29	0.00	0.17	110	0	0	12,828	1,563	11,265
39+25	3925.00	25.00	119.10	0.00	0.22	109	0	0	12,937	1,563	11,374
39+50	3950.00	25.00	113.66	0.00	0.60	108	0	0	13,045	1,563	11,482
39+75	3975.00	25.00	108.25	0.00	1.74	103	0	1	13,148	1,564	11,584
39+86.946	3986.95	11.95	109.58	0.00	1.68	48	0	1	13,196	1,565	11,631
39+90	3990.00	3.05	111.80	0.00	0.22	13	0	0	13,209	1,565	11,644
39+90.418	3990.42	0.42	111.73	0.00	0.06	2	0	0	13,211	1,565	11,646
39+95	3995.00	4.58	107.07	0.00	0.88	19	0	0	13,230	1,565	11,665
40+00	4000.00	5.00	112.34	0.00	2.09	20	0	0	13,250	1,565	11,685
40+05	4005.00	5.00	126.71	0.00	1.49	22	0	0	13,272	1,565	11,707
40+10	4010.00	5.00	146.95	0.00	0.27	25	0	0	13,297	1,565	11,732
40+15	4015.00	5.00	138.94	0.00	0.00	26	0	0	13,323	1,565	11,758
40+20	4020.00	5.00	130.13	0.00	0.00	25	0	0	13,348	1,565	11,783
40+25	4025.00	5.00	118.59	0.00	0.00	23	0	0	13,371	1,565	11,806
40+30	4030.00	5.00	104.03	0.00	0.00	21	0	0	13,392	1,565	11,827
40+35	4035.00	5.00	98.88	0.00	0.00	19	0	0	13,411	1,565	11,846
40+40	4040.00	5.00	115.10	0.00	0.00	20	0	0	13,431	1,565	11,866
40+45	4045.00	5.00	128.47	0.00	0.00	23	0	0	13,454	1,565	11,889
40+50	4050.00	5.00	138.02	0.00	0.09	25	0	0	13,479	1,565	11,914
40+55	4055.00	5.00	130.59	0.00	1.21	25	0	0	13,504	1,565	11,939
40+60	4060.00	5.00	129.91	0.00	1.31	24	0	0	13,528	1,565	11,963
40+65	4065.00	5.00	116.08	0.00	1.06	23	0	0	13,551	1,565	11,986
40+67.536	4067.54	2.54	114.62	0.00	0.07	11	0	0	13,562	1,565	11,997
40+70	4070.00	2.46	116.01	0.00	0.00	11	0	0	13,573	1,565	12,008
40+75	4075.00	5.00	110.10	0.00	0.19	21	0	0	13,594	1,565	12,029
40+80	4080.00	5.00	107.96	0.00	1.60	20	0	0	13,614	1,565	12,049
40+82.37	4082.37	2.37	107.98	0.00	1.95	9	0	0	13,623	1,565	12,058
41+00	4100.00	17.63	107.37	0.00	2.92	70	0	2	13,693	1,568	12,125
41+25	4125.00	25.00	105.46	0.00	1.84	99	0	2	13,792	1,571	12,221
41+50	4150.00	25.00	99.18	0.00	5.06	95	0	3	13,887	1,575	12,312
41+75	4175.00	25.00	93.31	0.00	4.74	89	0	5	13,976	1,581	12,395
42+00	4200.00	25.00	92.56	0.00	4.17	86	0	4	14,062	1,587	12,475
42+25	4225.00	25.00	90.56	0.00	7.74	85	0	6	14,147	1,595	12,552
42+50	4250.00	25.00	86.83	0.00	16.30	82	0	11	14,229	1,609	12,620
42+75	4275.00	25.00	85.39	0.00	10.18	80	0	12	14,309	1,625	12,684
43+00	4300.00	25.00	83.57	0.00	17.03	78	0	13	14,387	1,643	12,744
					PAGE TOTAL	2,482.00	0.00	73.00			

STH 89 CONTINUED

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
43+25	4325.00	25.00	96.83	0.00	6.06	84	0	11	14,471	1,657	12,814
43+50	4350.00	25.00	100.40	0.00	1.58	91	0	4	14,562	1,663	12,900
43+75	4375.00	25.00	91.38	0.00	3.20	89	0	2	14,651	1,665	12,986
44+00	4400.00	25.00	95.25	0.00	3.50	86	0	3	14,737	1,669	13,068
44+25	4425.00	25.00	93.71	0.00	4.21	87	0	4	14,824	1,674	13,150
44+50	4450.00	25.00	90.03	0.00	5.75	85	0	5	14,909	1,681	13,228
44+75	4475.00	25.00	93.46	0.00	2.92	85	0	4	14,994	1,686	13,308
45+00	4500.00	25.00	84.31	0.00	16.15	82	0	9	15,076	1,698	13,378
45+25	4525.00	25.00	83.02	0.00	12.53	77	0	13	15,153	1,716	13,437
45+50	4550.00	25.00	84.09	0.00	10.26	77	0	11	15,230	1,730	13,500
45+75	4575.00	25.00	85.55	0.00	8.51	79	0	9	15,309	1,742	13,567
46+00	4600.00	25.00	83.50	0.00	8.71	78	0	8	15,387	1,753	13,634
46+25	4625.00	25.00	93.91	0.00	2.25	82	0	5	15,469	1,760	13,709
46+50	4650.00	25.00	99.73	0.00	2.62	90	0	2	15,559	1,762	13,797
46+75	4675.00	25.00	86.83	0.00	4.51	86	0	3	15,645	1,766	13,879
47+00	4700.00	25.00	90.70	0.00	6.64	82	0	5	15,727	1,773	13,954
47+25	4725.00	25.00	97.62	0.00	0.82	87	0	3	15,814	1,777	14,037
47+50	4750.00	25.00	106.91	0.00	0.00	95	0	0	15,909	1,777	14,132
47+75	4775.00	25.00	117.36	0.00	1.76	104	0	1	16,013	1,778	14,235
48+00	4800.00	25.00	129.58	0.00	0.14	114	0	1	16,127	1,780	14,347
48+25	4825.00	25.00	141.75	0.00	0.00	126	0	0	16,253	1,780	14,473
48+50	4850.00	25.00	120.59	0.00	1.31	121	0	1	16,374	1,781	14,593
48+75	4875.00	25.00	118.14	0.00	1.53	111	0	1	16,485	1,782	14,703
49+00	4900.00	25.00	125.35	0.00	0.81	113	0	1	16,598	1,784	14,814
49+25	4925.00	25.00	114.17	0.00	0.93	111	0	1	16,709	1,785	14,924
49+50	4950.00	25.00	117.41	0.00	1.66	107	0	1	16,816	1,786	15,030
49+67.42	4967.42	17.42	125.58	0.00	0.88	78	0	1	16,894	1,788	15,106
49+70	4970.00	2.58	123.20	0.00	0.03	12	0	0	16,906	1,788	15,118
49+75	4975.00	5.00	120.11	0.00	0.99	23	0	0	16,929	1,788	15,141
49+80	4980.00	5.00	105.63	0.00	0.00	21	0	0	16,950	1,788	15,162
49+85	4985.00	5.00	63.62	0.00	0.00	16	0	0	16,966	1,788	15,178
					PAGE TOTAL	**2,579**	**0**	**109**			
					STH 89 TOTAL	**16,966**	**0**	**1,344**			

AVALON ROAD

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
09+52.181	952.18	0.00	77.57	0.00	0.00	0	0	0	0	0	0
09+55	955.00	2.82	86.28	0.00	0.27	9	0	0	9	0	9
09+60	960.00	5.00	87.11	0.00	2.39	16	0	0	25	0	25
09+65	965.00	5.00	91.28	0.00	1.16	17	0	0	42	0	42
09+70	970.00	5.00	68.41	0.00	0.00	15	0	0	57	0	57
09+75	975.00	5.00	41.43	0.00	0.00	10	0	0	67	0	67
09+80	980.00	5.00	16.34	0.00	0.00	5	0	0	72	0	72
				AVALON ROAD TOTALS		72	0	0			

FOLSOM STREET

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
49+47.316	4947.32	0.00	6.07	0.00	0.00	0	0	0	0	0	0
49+50	4950.00	2.68	85.84	0.00	0.54	5	0	0	5	0	5
49+55	4955.00	5.00	87.70	0.00	1.08	16	0	0	21	0	21
49+56.261	4956.26	1.26	88.89	0.00	1.18	4	0	0	25	0	25
49+60	4960.00	3.74	93.82	0.00	0.67	13	0	0	38	0	38
49+65	4965.00	5.00	90.79	0.00	0.17	17	0	0	55	0	55
49+70	4970.00	5.00	73.34	0.00	0.00	15	0	0	70	0	70
49+75	4975.00	5.00	42.16	0.00	0.00	11	0	0	81	0	81
49+80	4980.00	5.00	7.02	0.00	0.00	5	0	0	86	0	86
49+80.904	4980.90	0.90	0.30	0.00	0.00	0	0	0	86	0	86
50+19.055	5019.06	38.15	0.23	0.00	0.00	0	0	0	86	0	86
50+20	5020.00	0.94	7.39	0.00	0.00	0	0	0	86	0	86
50+25	5025.00	5.00	44.50	0.00	0.00	5	0	0	91	0	91
50+30	5030.00	5.00	79.62	0.00	0.00	11	0	0	102	0	102
50+35	5035.00	5.00	105.25	0.00	0.00	17	0	0	119	0	119
50+40	5040.00	5.00	102.88	0.00	0.00	19	0	0	138	0	138
50+44.819	5044.82	4.82	94.75	0.00	0.56	18	0	0	156	0	156
50+45	5045.00	0.18	94.51	0.00	0.57	1	0	0	157	0	157
50+50	5050.00	5.00	87.16	0.00	0.01	17	0	0	174	0	174
50+51.393	5051.39	1.39	84.45	0.00	0.00	4	0	0	178	0	178
				FOLSOM STREET TOTALS		178	0	0			

FRONTAGE ROAD

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.33	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
39+33.056	3933.06	0.00	9.42	0.00	0.00	0	0	0	0	0	0
39+35	3935.00	1.94	54.69	0.00	0.01	2	0	0	2	0	2
39+40	3940.00	5.00	76.67	0.00	0.00	12	0	0	14	0	14
39+45	3945.00	5.00	78.23	0.00	0.00	14	0	0	28	0	28
39+50	3950.00	5.00	63.14	0.00	0.00	13	0	0	41	0	41
39+55	3955.00	5.00	73.24	0.00	0.00	13	0	0	54	0	54
39+60	3960.00	5.00	79.25	0.00	0.00	14	0	0	68	0	68
39+65	3965.00	5.00	91.41	0.00	0.21	16	0	0	84	0	84
39+70	3970.00	5.00	93.37	0.00	0.00	17	0	0	101	0	101
39+75	3975.00	5.00	113.14	0.00	0.16	19	0	0	120	0	120
39+75.038	3975.04	0.04	113.14	0.00	0.16	0	0	0	120	0	120
39+80	3980.00	4.96	19.46	0.00	0.00	12	0	0	132	0	132
39+80.998	3981.00	1.00	0.04	0.00	0.00	0	0	0	132	0	132
				FRONTAGE ROAD TOTALS		132	0	0			

WATERLOO STREET

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.33	
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
30+17.096	3017.10	0.00	0.00	0.00	0	0	0	0	0
30+19.017	3019.02	1.92	5.33	0.00	0	0	0	0	0
30+20	3020.00	0.98	11.11	0.00	0	0	0	0	0
30+25	3025.00	5.00	40.32	0.00	5	0	5	0	5
30+30	3030.00	5.00	70.51	0.00	10	0	15	0	15
30+35	3035.00	5.00	100.81	0.12	16	0	31	0	31
30+40	3040.00	5.00	93.98	2.49	18	0	49	0	49
30+45	3045.00	5.00	85.55	10.61	17	1	66	1	65
30+50	3050.00	5.00	83.23	25.62	16	3	82	5	77
30+52.182	3052.18	2.18	83.08	28.96	7	2	89	8	81
30+53.425	3053.43	1.24	83.13	13.12	4	1	93	9	84
30+55	3055.00	1.57	83.19	30.52	5	1	98	11	87
30+60	3060.00	5.00	83.45	32.16	15	6	113	19	94
30+65	3065.00	5.00	82.99	30.40	15	6	128	27	101
30+70	3070.00	5.00	81.95	20.93	15	5	143	33	110
30+75	3075.00	5.00	79.10	9.55	15	3	158	37	121
30+80	3080.00	5.00	80.59	0.70	15	1	173	39	134
30+81.161	3081.16	1.16	73.93	0.00	3	0	176	39	137
			WATERLOO STREET TOTALS		176	29			

POET STREET

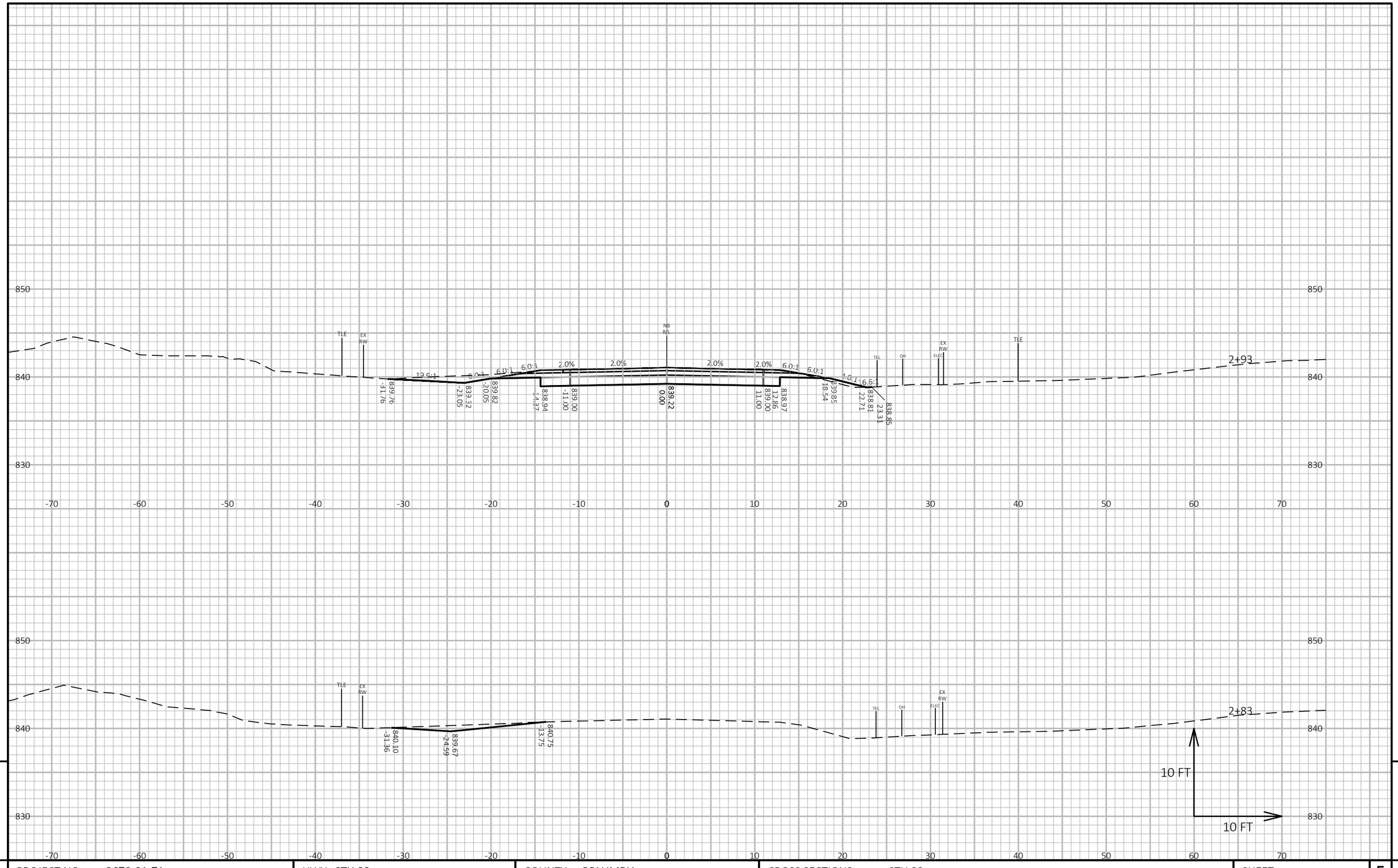
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
59+47.83	5947.83	0.00	35.44	0.00	1.79	0	0	0	0	0	0
59+50	5950.00	2.17	62.86	0.00	3.15	4	0	0	4	0	4
59+55	5955.00	5.00	65.47	0.00	5.72	12	0	1	16	1	15
59+55.874	5955.87	0.87	66.44	0.00	5.49	2	0	0	18	1	17
59+60	5960.00	4.13	73.05	0.00	4.31	11	0	1	29	3	26
59+65	5965.00	5.00	79.82	0.00	1.52	14	0	1	43	4	39
59+70	5970.00	5.00	67.53	0.00	0.00	14	0	0	57	4	53
59+75	5975.00	5.00	38.59	0.00	0.00	10	0	0	67	4	63
59+80	5980.00	5.00	6.45	0.00	0.00	4	0	0	71	4	67
59+80.818	5980.82	0.82	0.88	0.00	0.00	0	0	0	71	4	67
60+19.237	6019.24	38.42	1.81	0.00	0.00	2	0	0	73	4	69
60+20	6020.00	0.76	8.40	0.00	0.00	0	0	0	73	4	69
60+25	6025.00	5.00	49.45	0.00	0.00	5	0	0	78	4	74
60+30	6030.00	5.00	88.55	0.00	0.00	13	0	0	91	4	87
60+35	6035.00	5.00	116.22	0.00	0.00	19	0	0	110	4	106
60+40	6040.00	5.00	107.59	0.00	0.00	21	0	0	131	4	127
60+42.323	6042.32	2.32	101.44	0.00	0.00	9	0	0	140	4	136
60+45	6045.00	2.68	97.47	0.00	0.14	10	0	0	150	4	146
60+49.336	6049.34	4.34	4.70	0.00	0.72	8	0	0	158	4	154
				POET STREET TOTALS		158	0	3			

HOFFMAN POND

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
00+10	10.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
00+16.172	16.17	6.17	0.00	0.00	0.00	0	0	0	0	0	0
00+25	25.00	8.83	0.01	0.00	42.04	0	0	7	0	9	-9
00+37.309	37.31	12.31	0.09	0.00	51.83	0	0	21	0	37	-37
00+50	50.00	12.69	63.61	0.00	17.85	15	0	16	15	59	-44
00+75	75.00	25.00	111.22	0.00	6.10	81	0	11	96	73	23
00+76.699	76.70	1.70	113.00	0.00	5.90	7	0	0	103	73	30
01+00	100.00	23.30	102.18	0.00	4.01	93	0	4	196	78	118
01+19.449	119.45	19.45	97.29	0.00	5.39	72	0	3	268	82	186
01+25	125.00	5.55	92.92	0.00	4.46	20	0	1	288	84	204
01+50	150.00	25.00	92.32	0.00	4.62	86	0	4	374	89	285
01+52.897	152.90	2.90	93.11	0.00	6.59	10	0	1	384	90	294
01+75	175.00	22.10	0.00	0.00	1.74	38	0	3	422	94	328
01+76.409	176.41	1.41	0.00	0.00	0.00	0	0	0	422	94	328
01+80	180.00	3.59	0.00	0.00	0.00	0	0	0	422	94	328
				HOFFMAN POND TOTALS		422	0	71			

9

9



9

9

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 320	E

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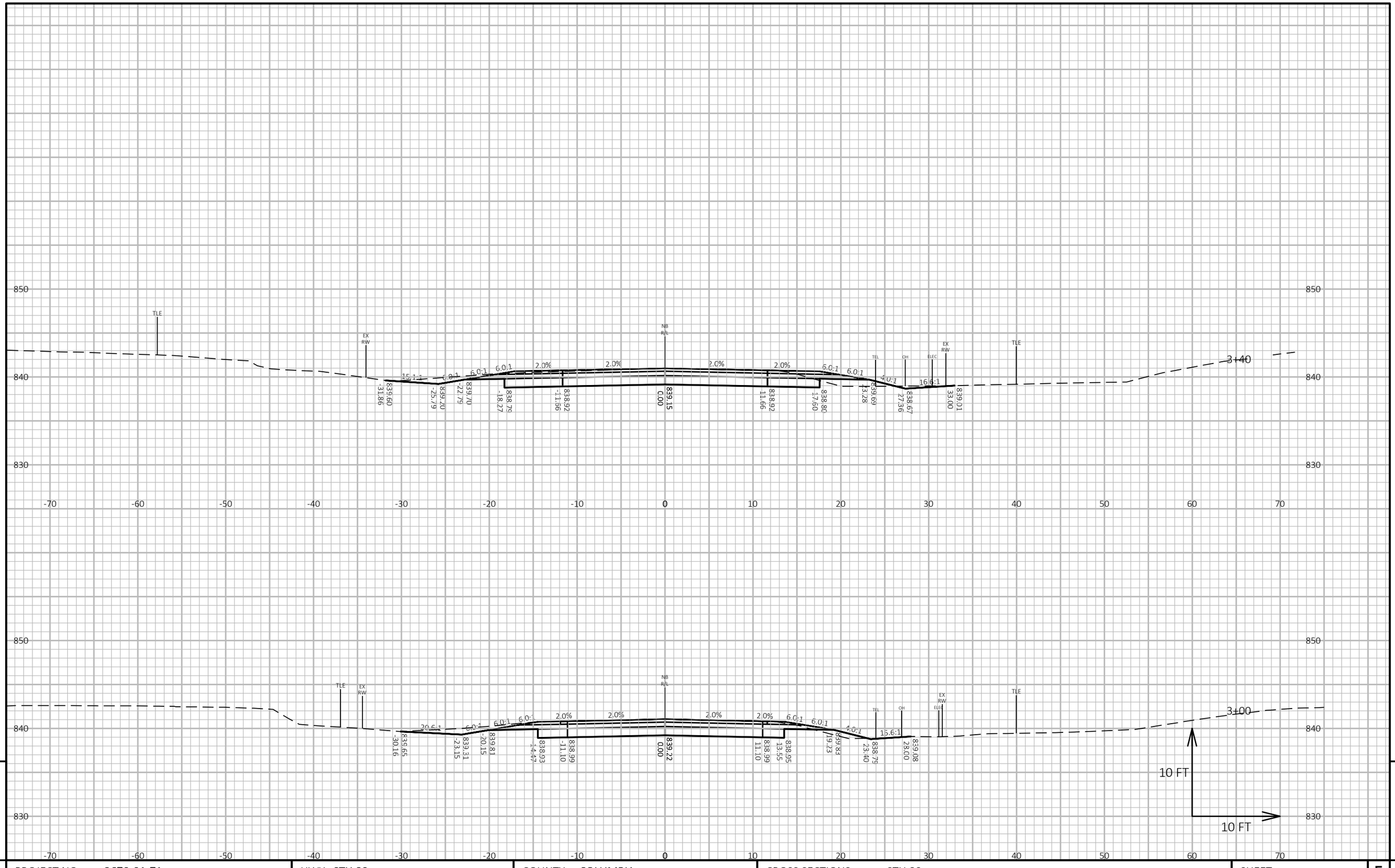
PLOT DATE : 3/4/2020 11:35 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PLOT DATE : 3/4/2020 11:35 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

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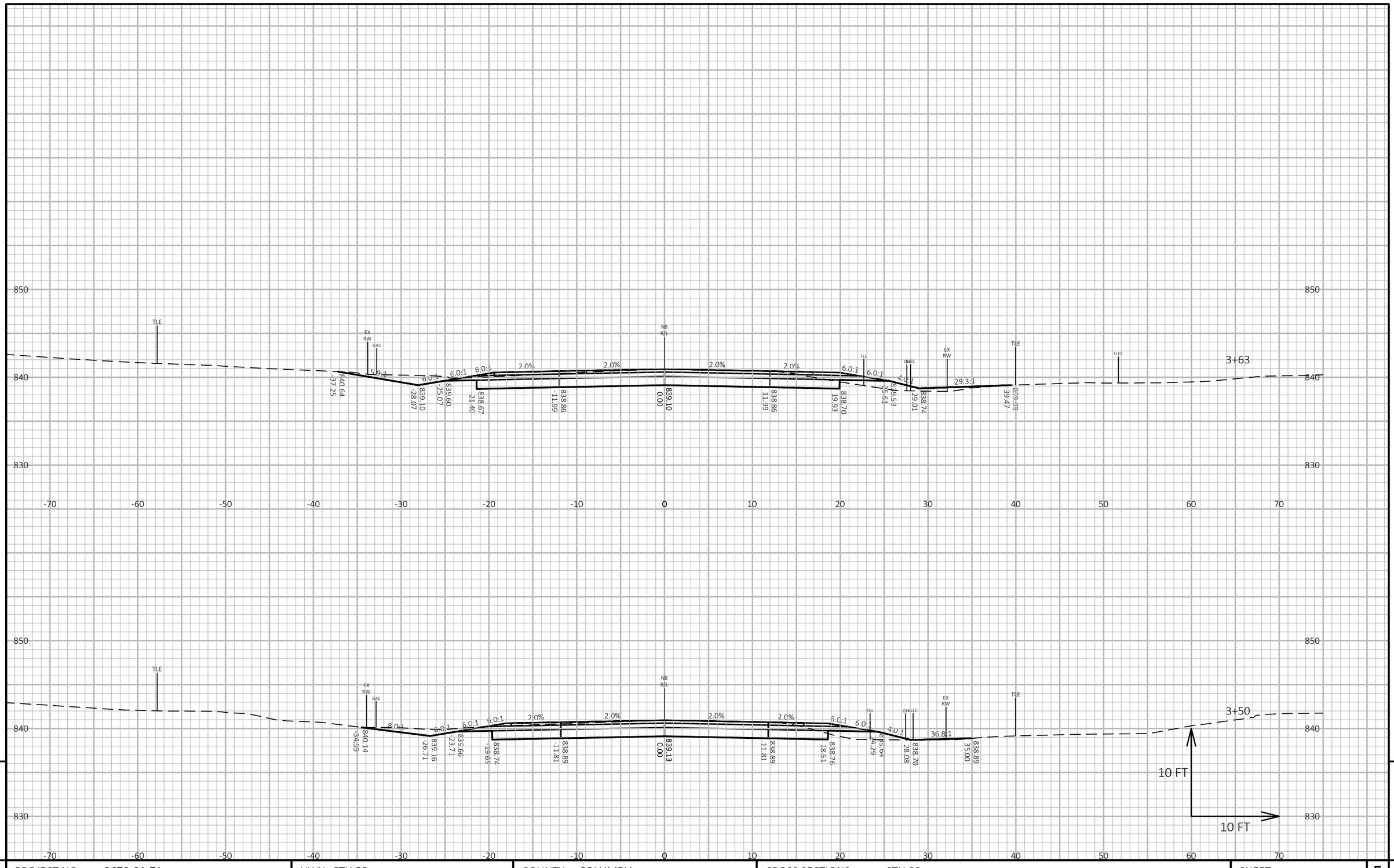
WISDOT/CADDS SHEET 49



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LAYOUT NAME - 090201_xs(47)

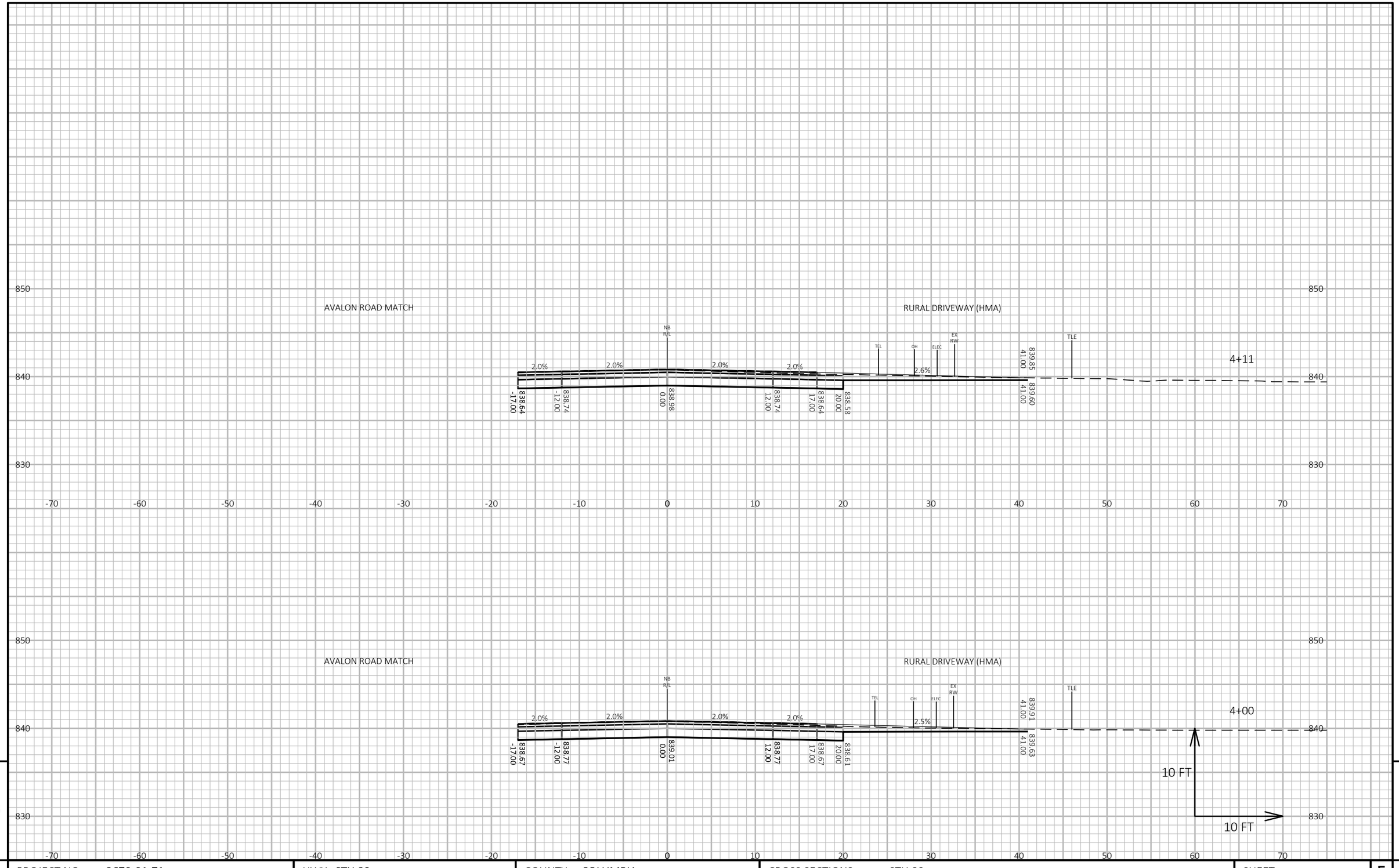
PLOT DATE : 3/4/2020 11:36 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 323	E

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LAYOUT NAME - 090201_xs(48)

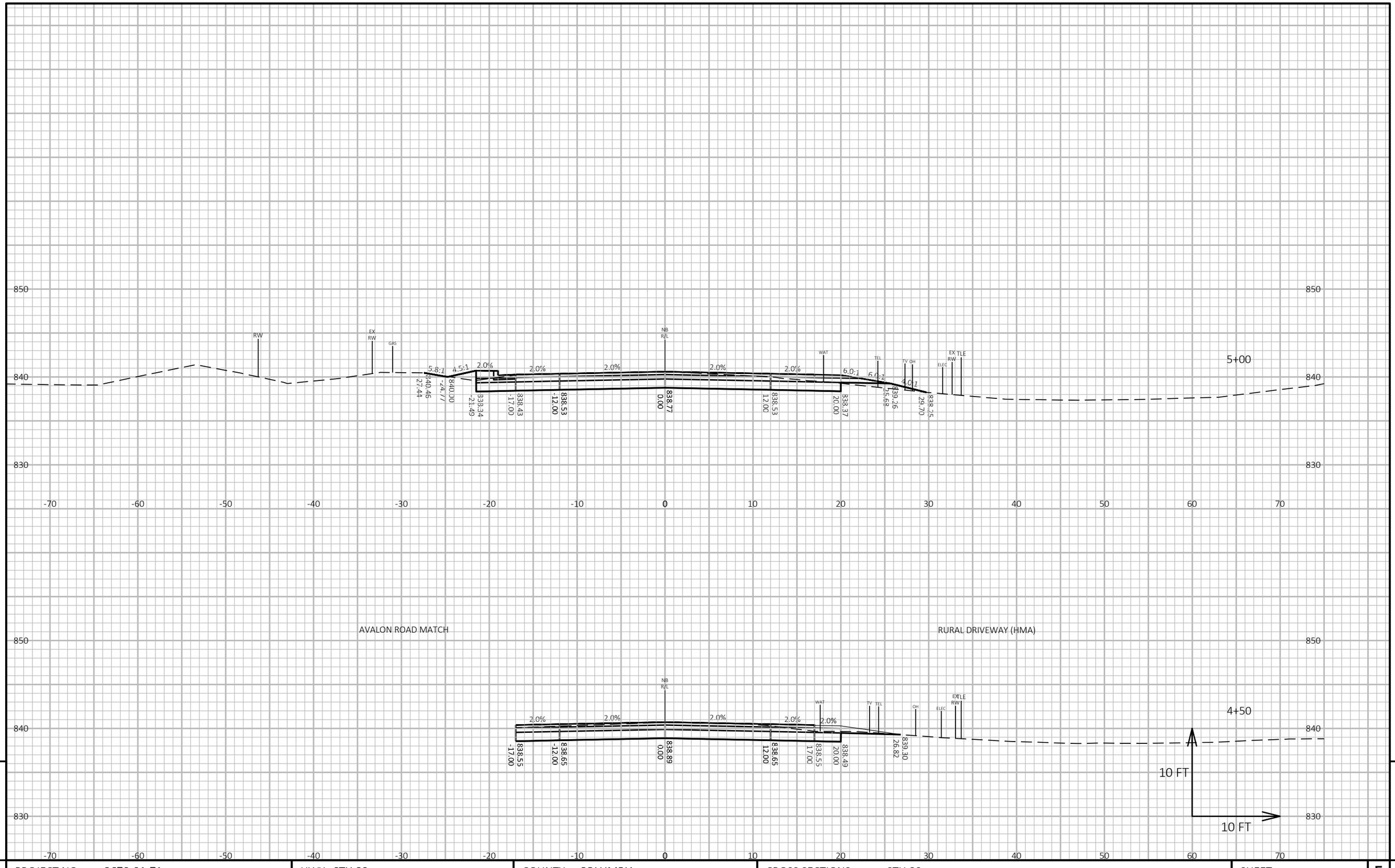
PLOT DATE : 3/4/2020 11:36 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 324	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(49)

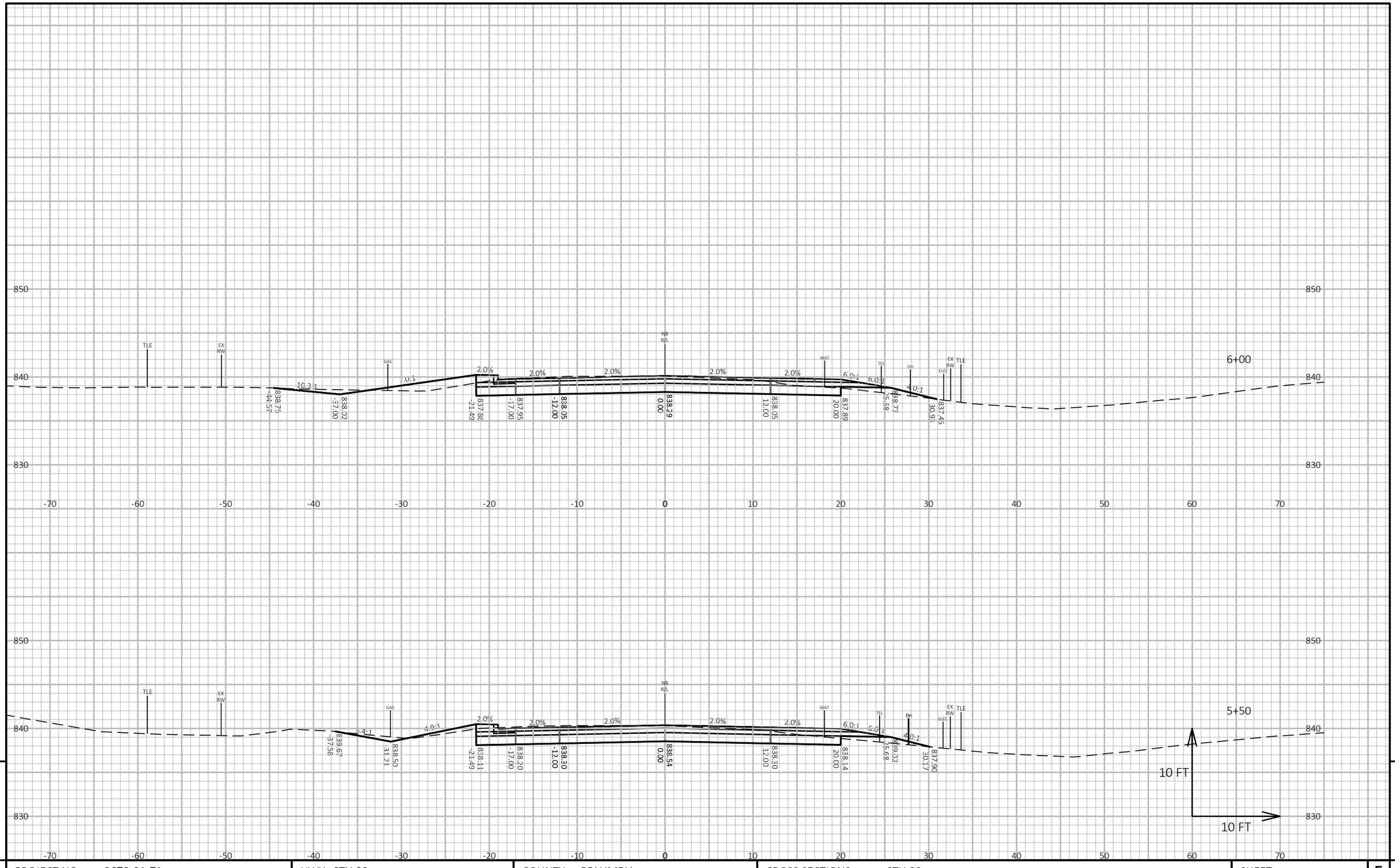
PLOT DATE : 3/4/2020 11:36 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 325	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(50)

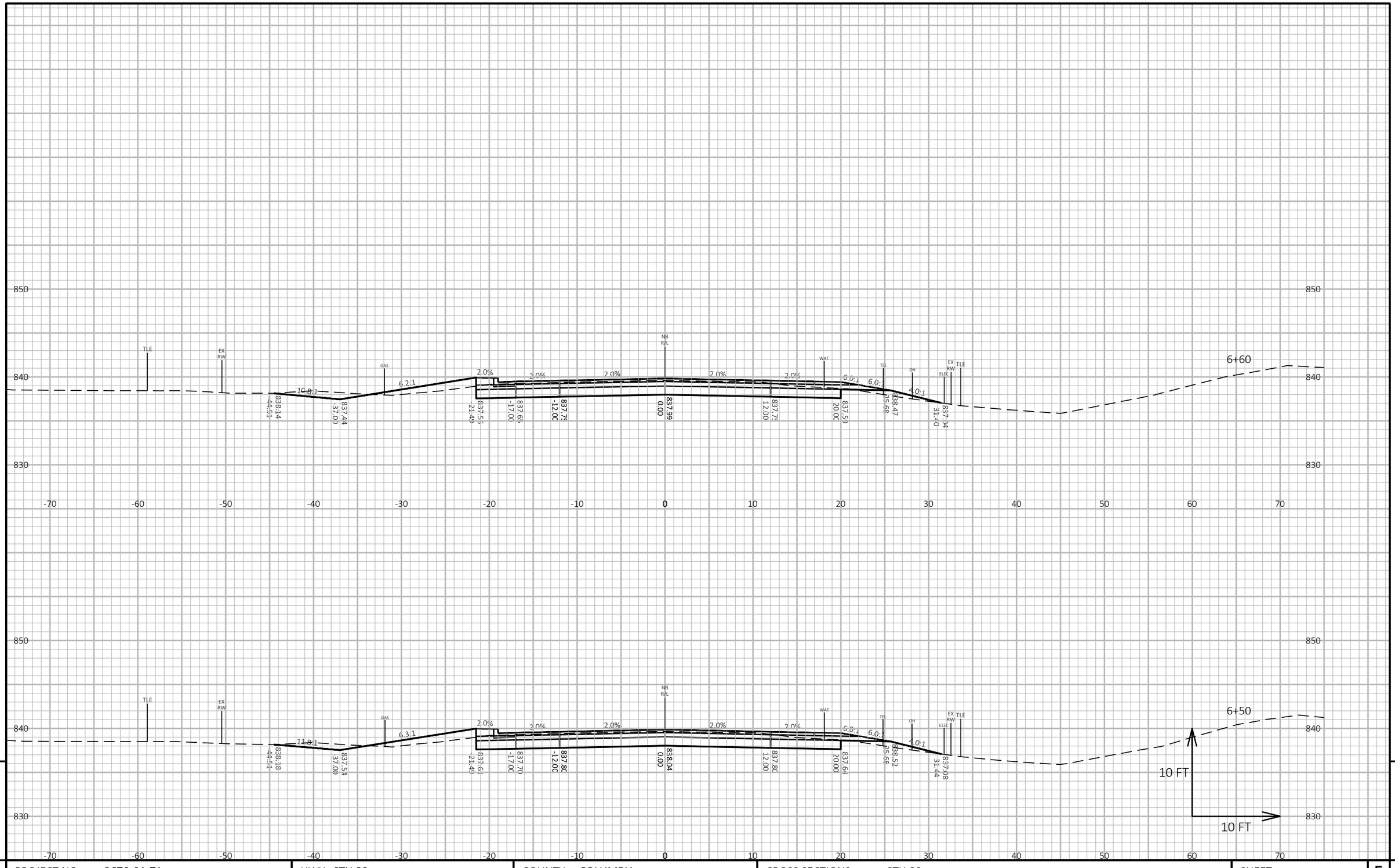
PLOT DATE : 3/4/2020 11:36 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 326	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(51)

PLOT DATE : 3/4/2020 11:37 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 327	E

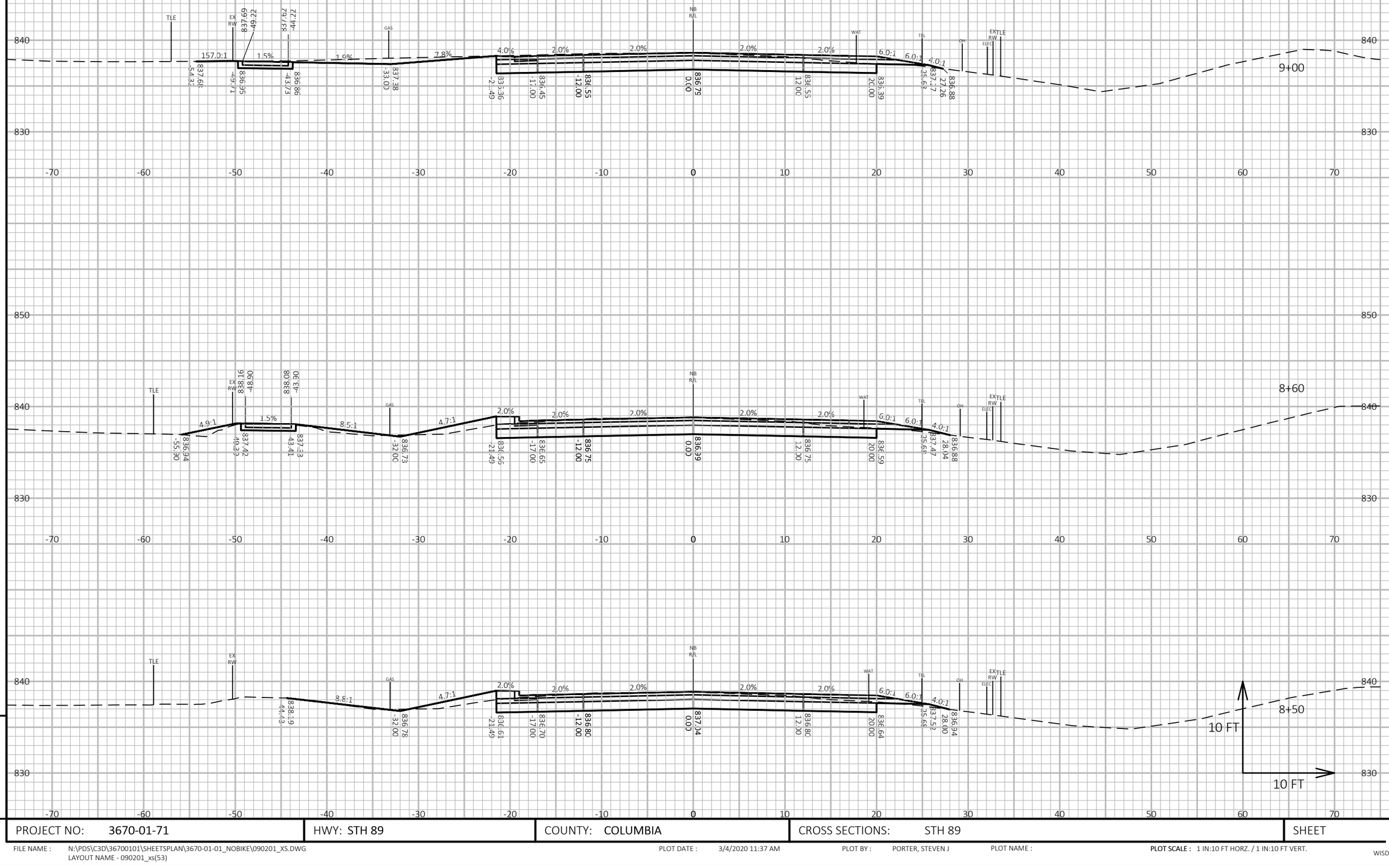
FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(52)

PLOT DATE : 3/4/2020 11:37 AM PLOT BY : PORTER, STEVEN J PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CE SAINT JEROME'S CHURCH/SCHOOL (HMA)



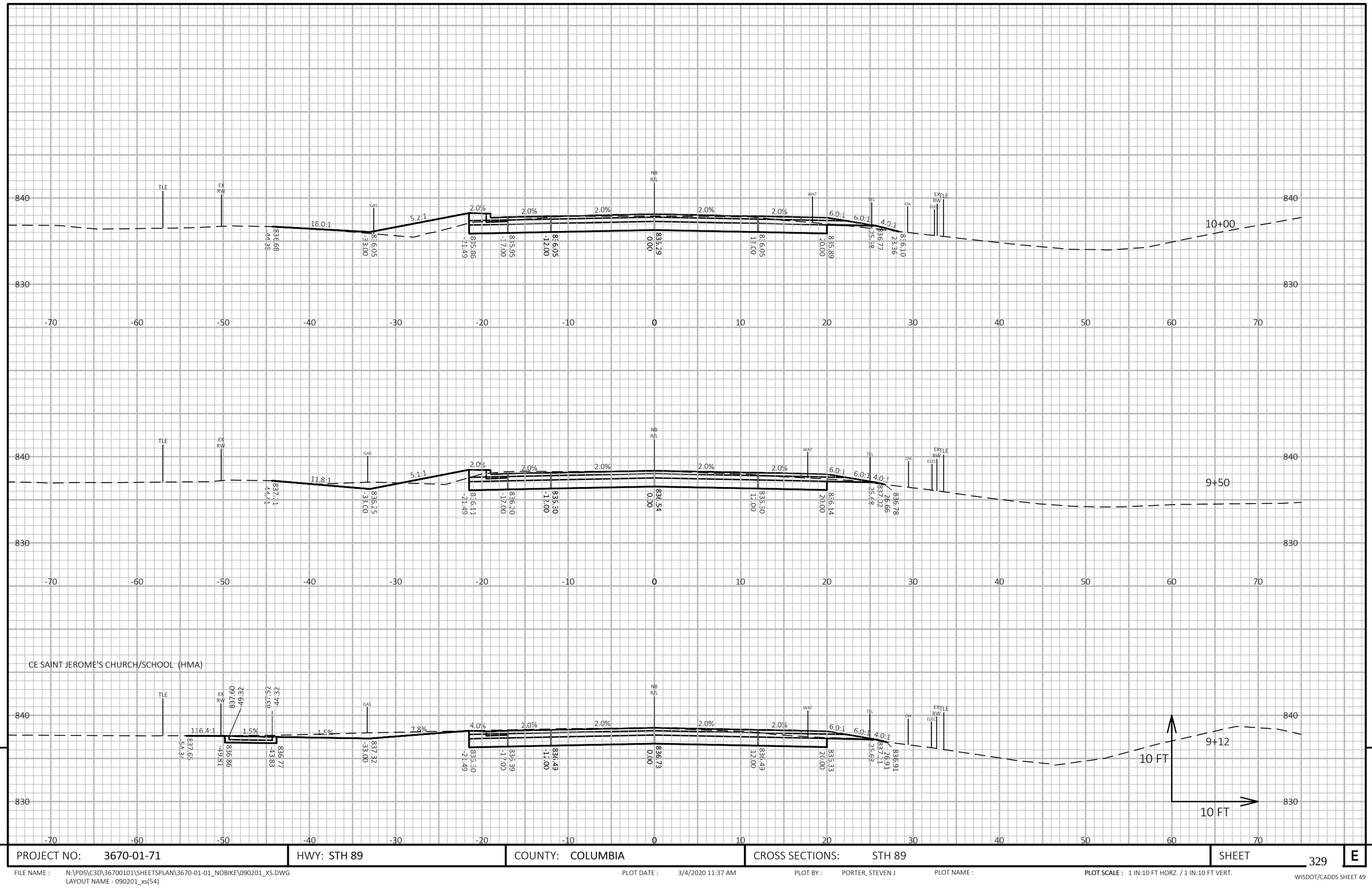
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 328	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(53)

PLOT DATE : 3/4/2020 11:37 AM PLOT BY : PORTER, STEVEN J PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 329	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(54)

PLOT DATE : 3/4/2020 11:37 AM

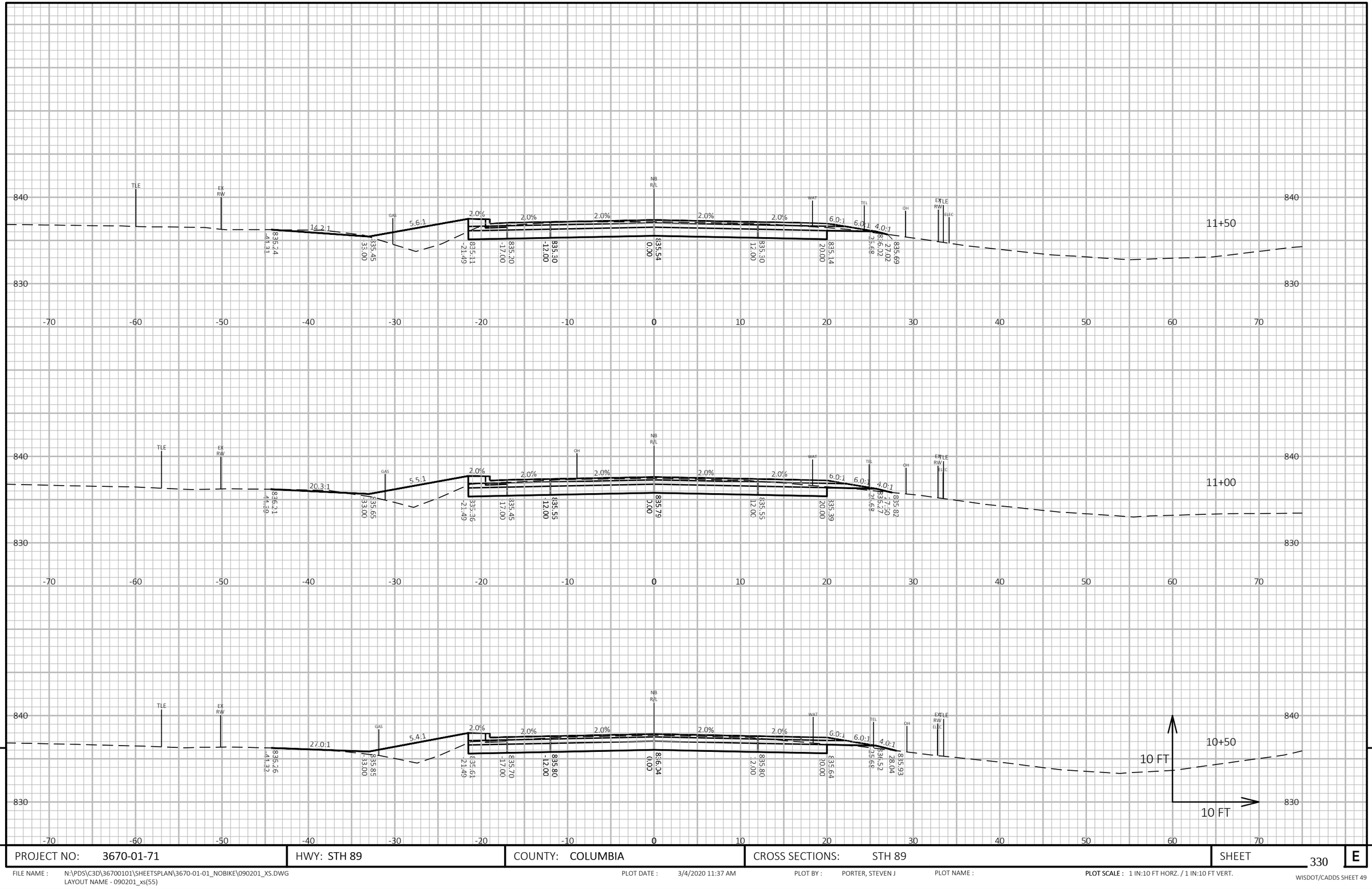
PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 330	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(55)

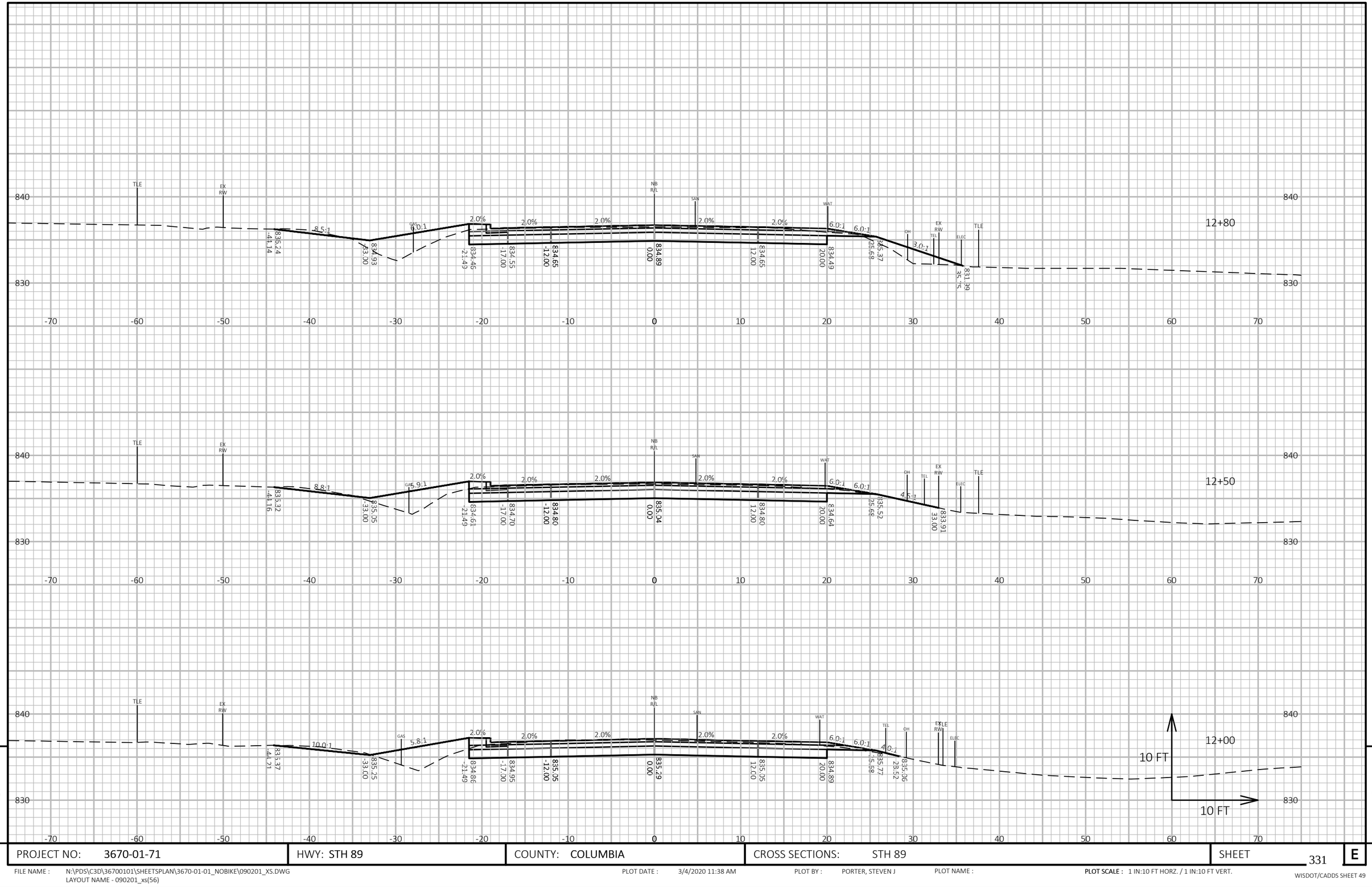
PLOT DATE : 3/4/2020 11:37 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 331	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(56)

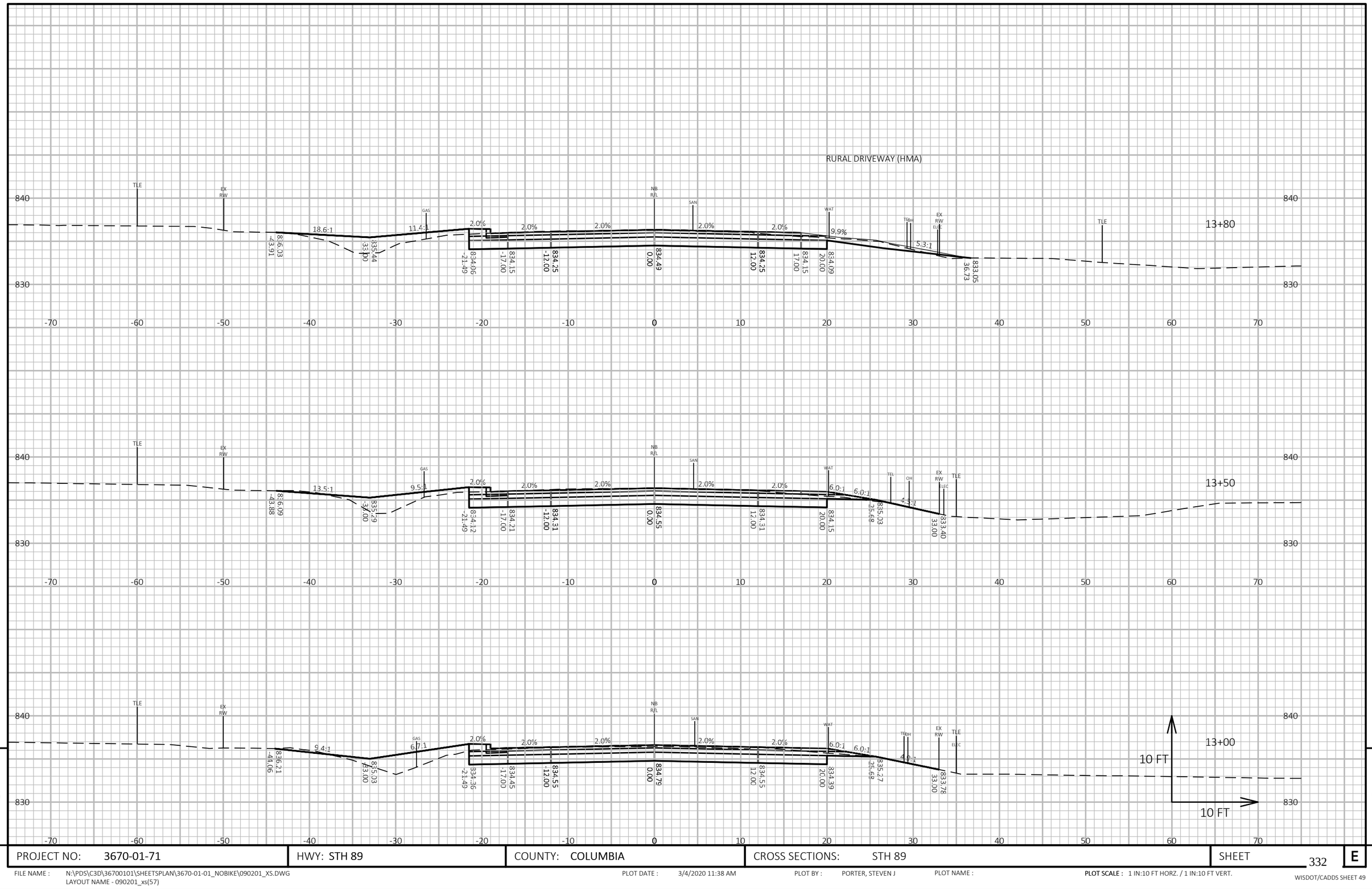
PLOT DATE : 3/4/2020 11:38 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 332	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(57)

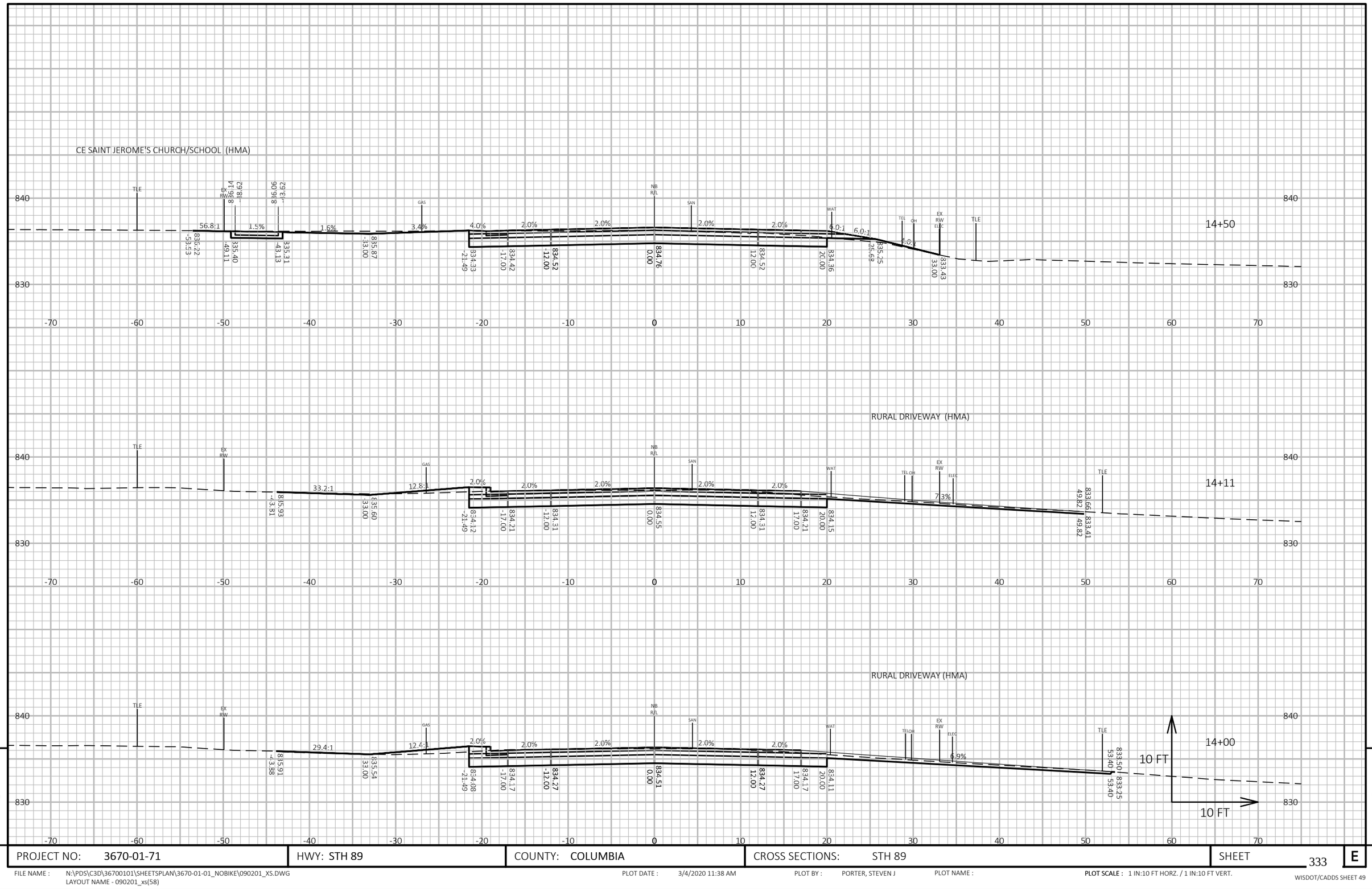
PLOT DATE : 3/4/2020 11:38 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 333	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(58)

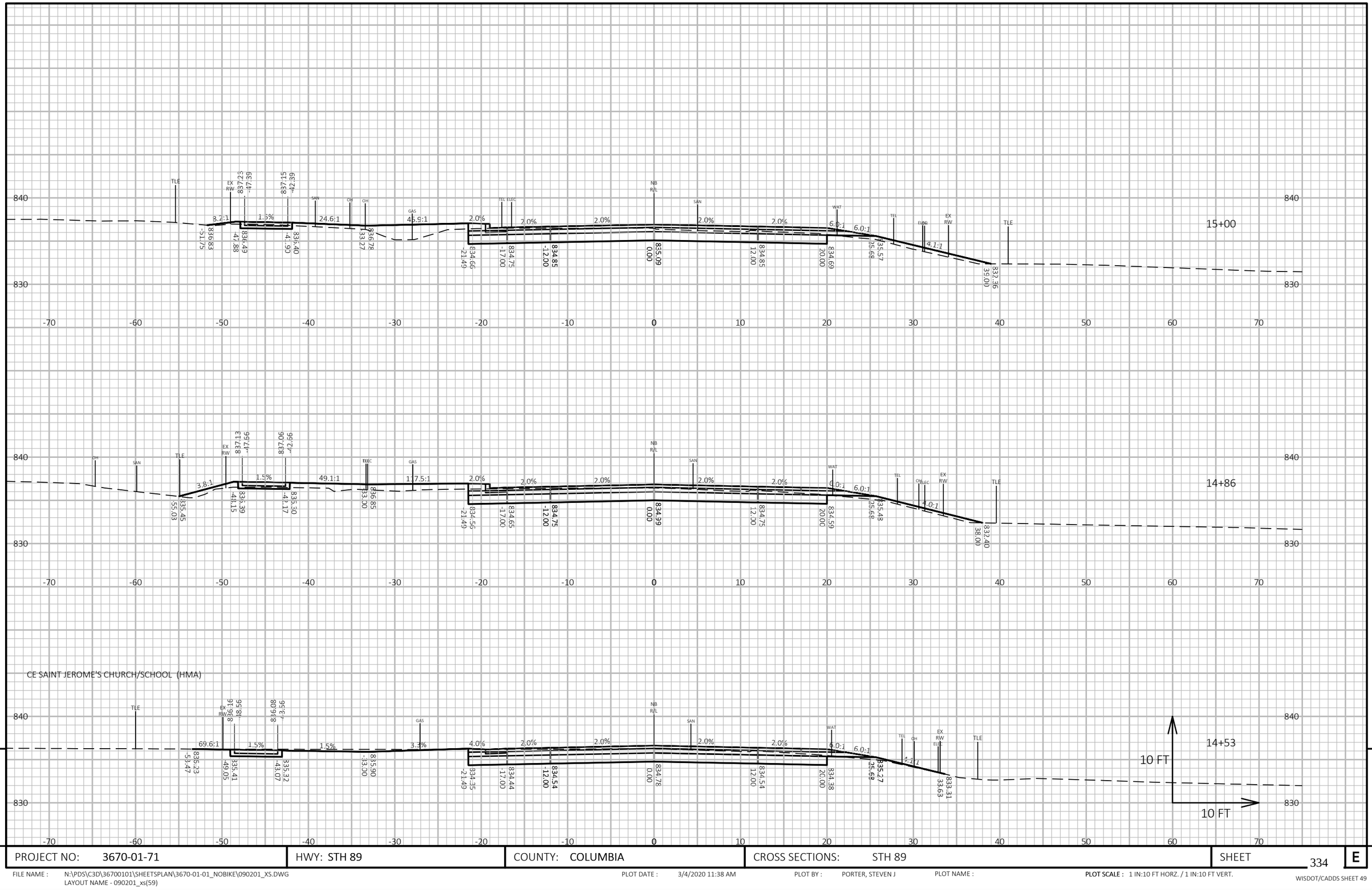
PLOT DATE : 3/4/2020 11:38 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



CE SAINT JEROME'S CHURCH/SCHOOL (HMA)

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 334 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(59)

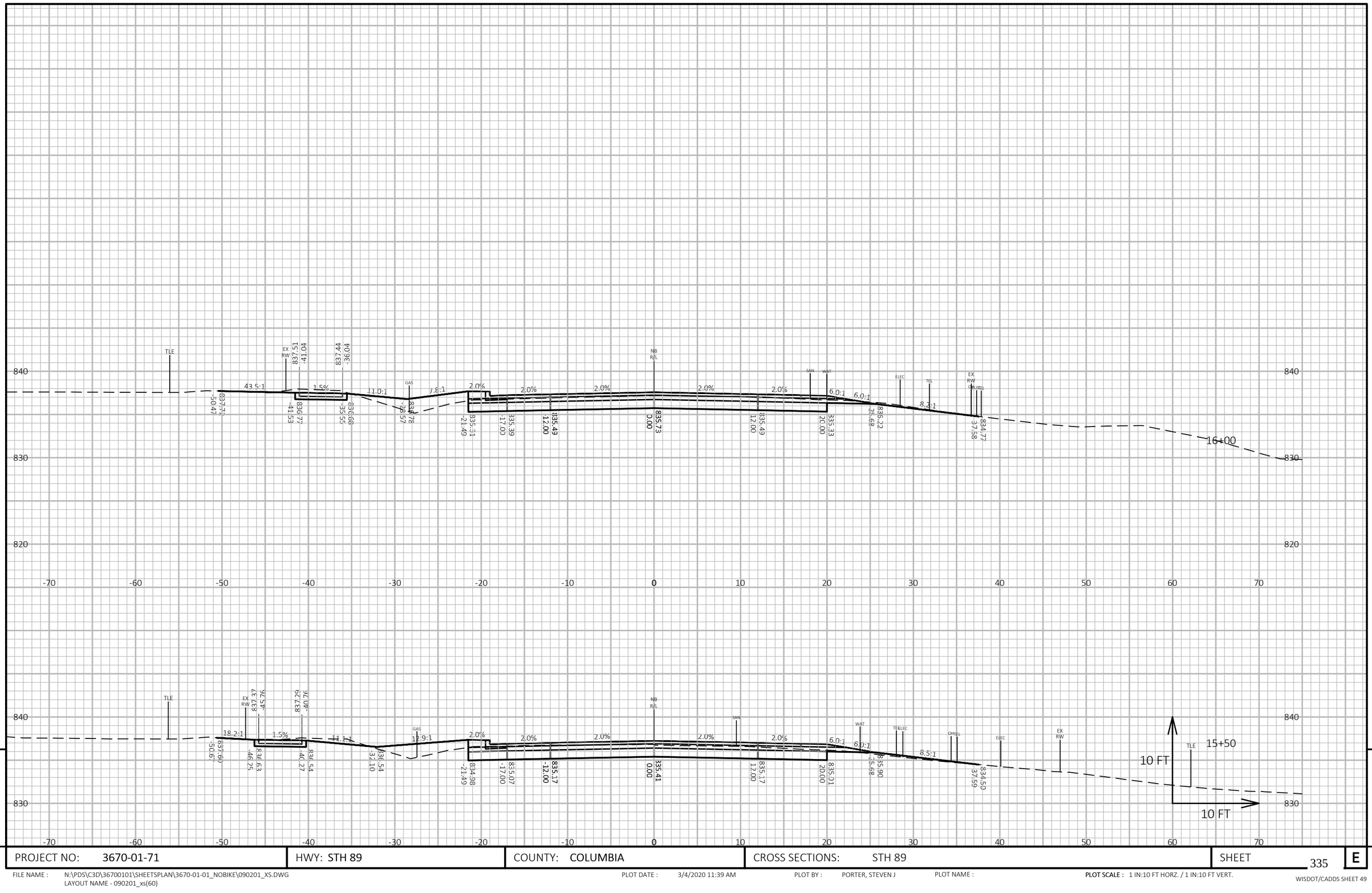
PLOT DATE : 3/4/2020 11:38 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

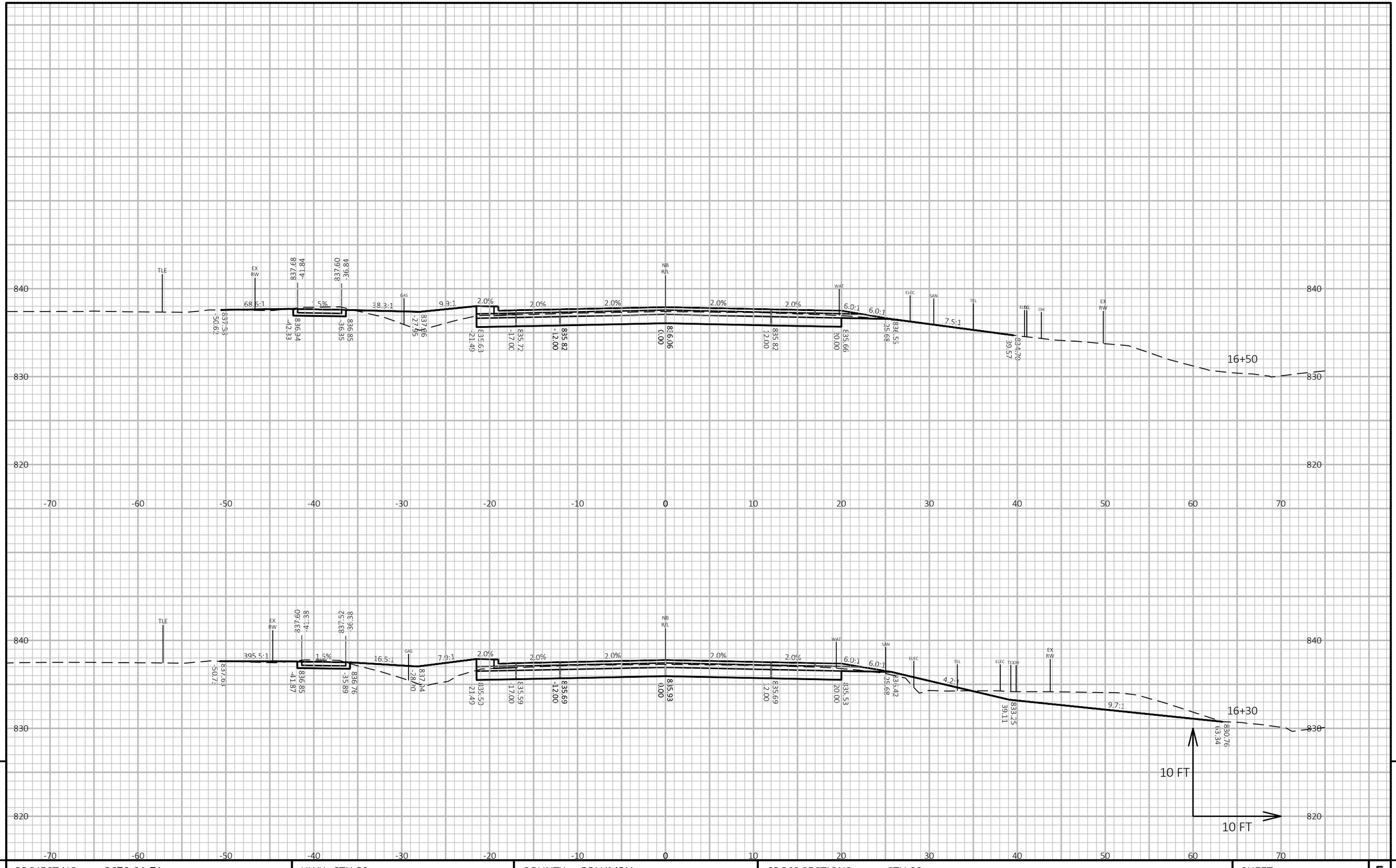


PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 335	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(60)

PLOT DATE : 3/4/2020 11:39 AM PLOT BY : PORTER, STEVEN J PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 336	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(61)

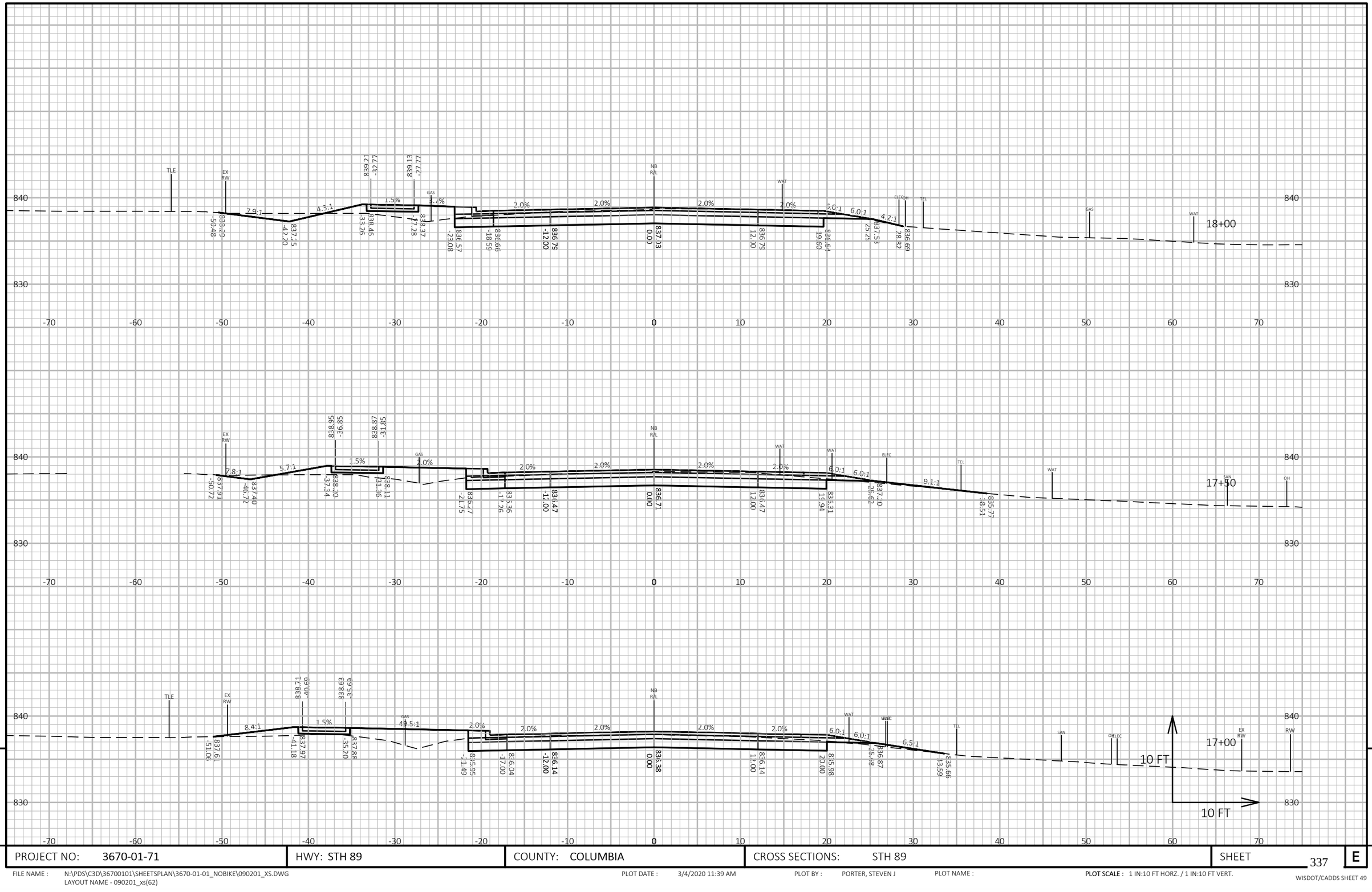
PLOT DATE : 3/4/2020 11:39 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 337 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(62)

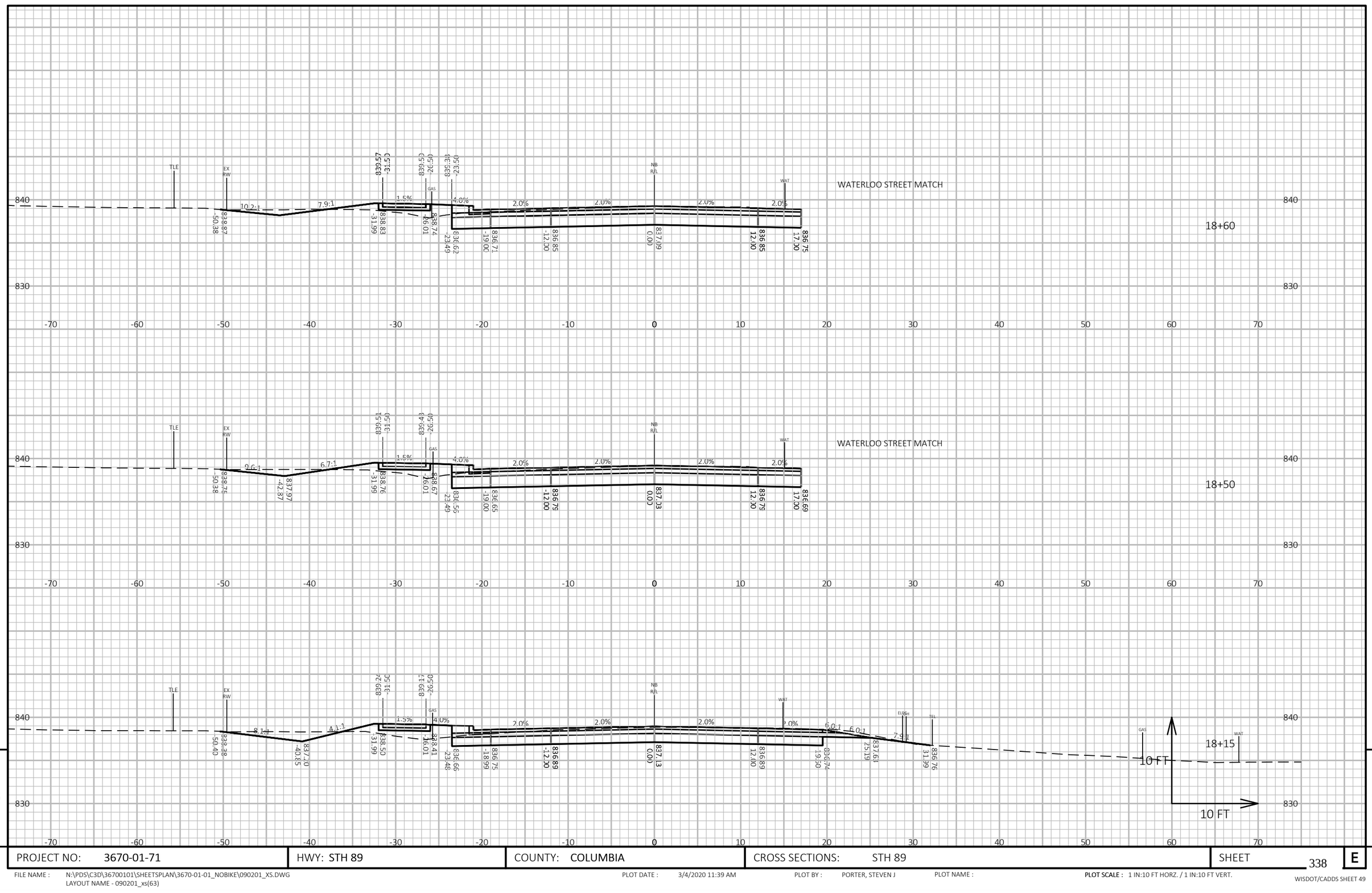
PLOT DATE : 3/4/2020 11:39 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 338	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(63)

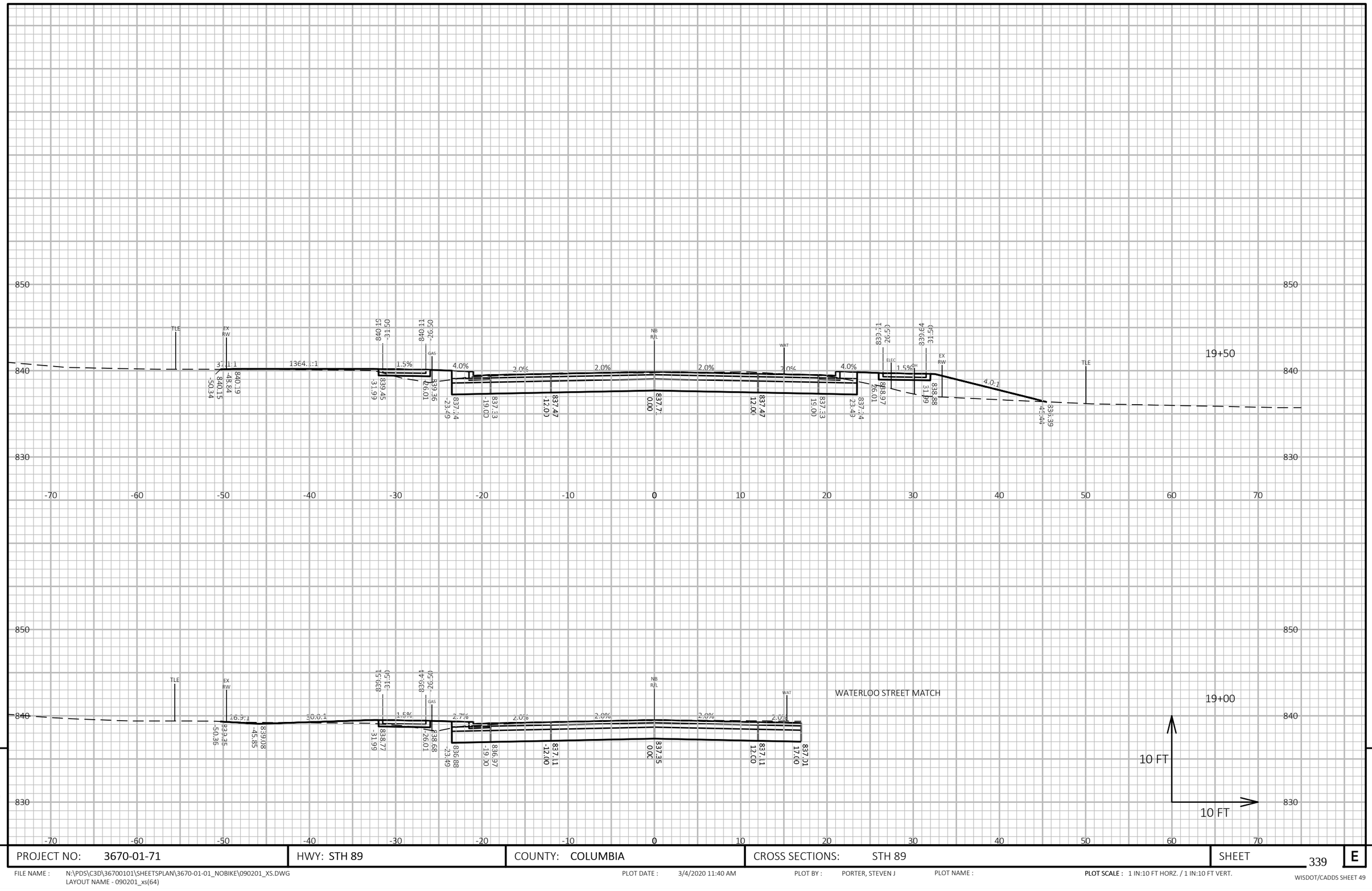
PLOT DATE : 3/4/2020 11:39 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 339	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(64)

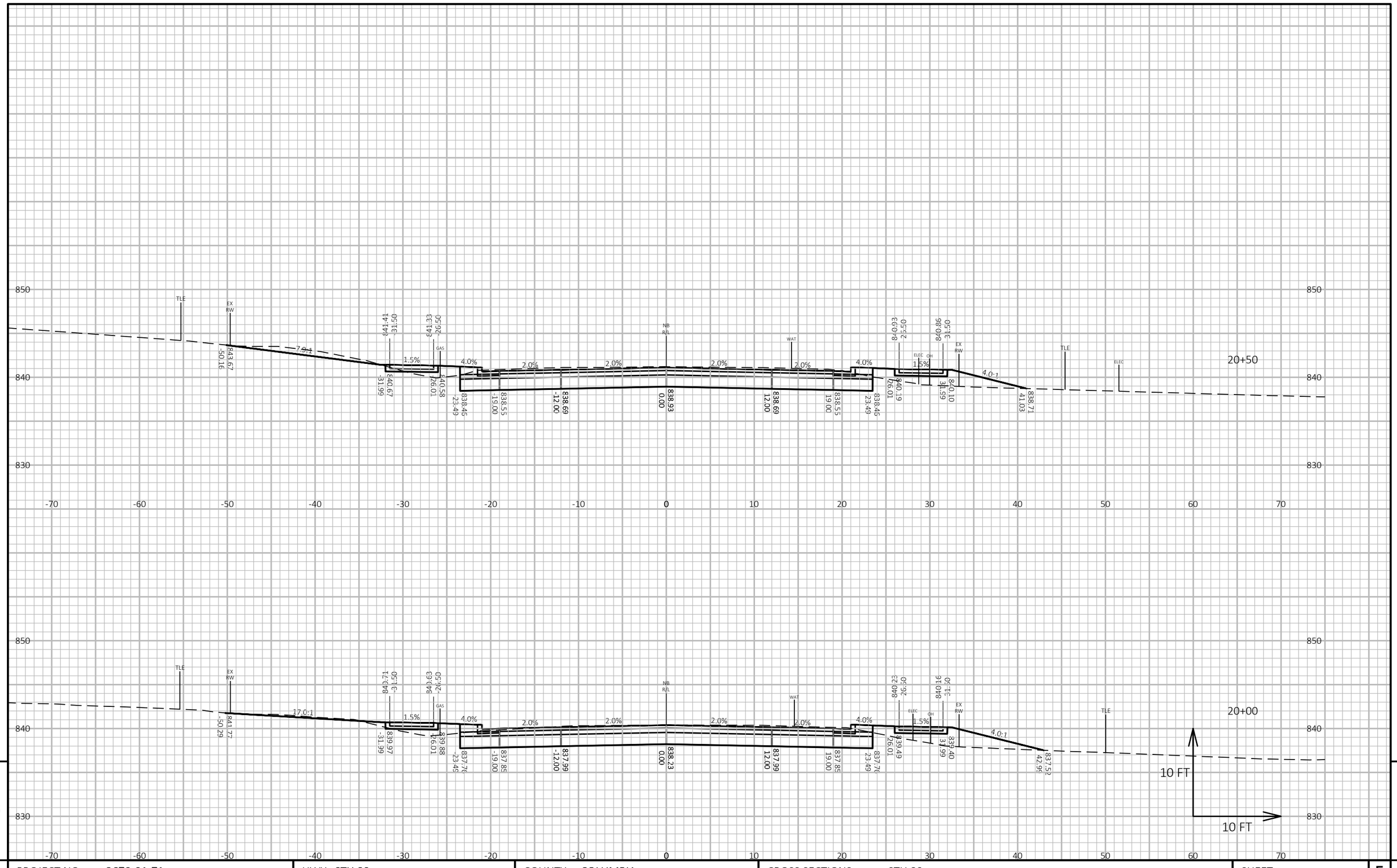
PLOT DATE : 3/4/2020 11:40 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 340	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(65)

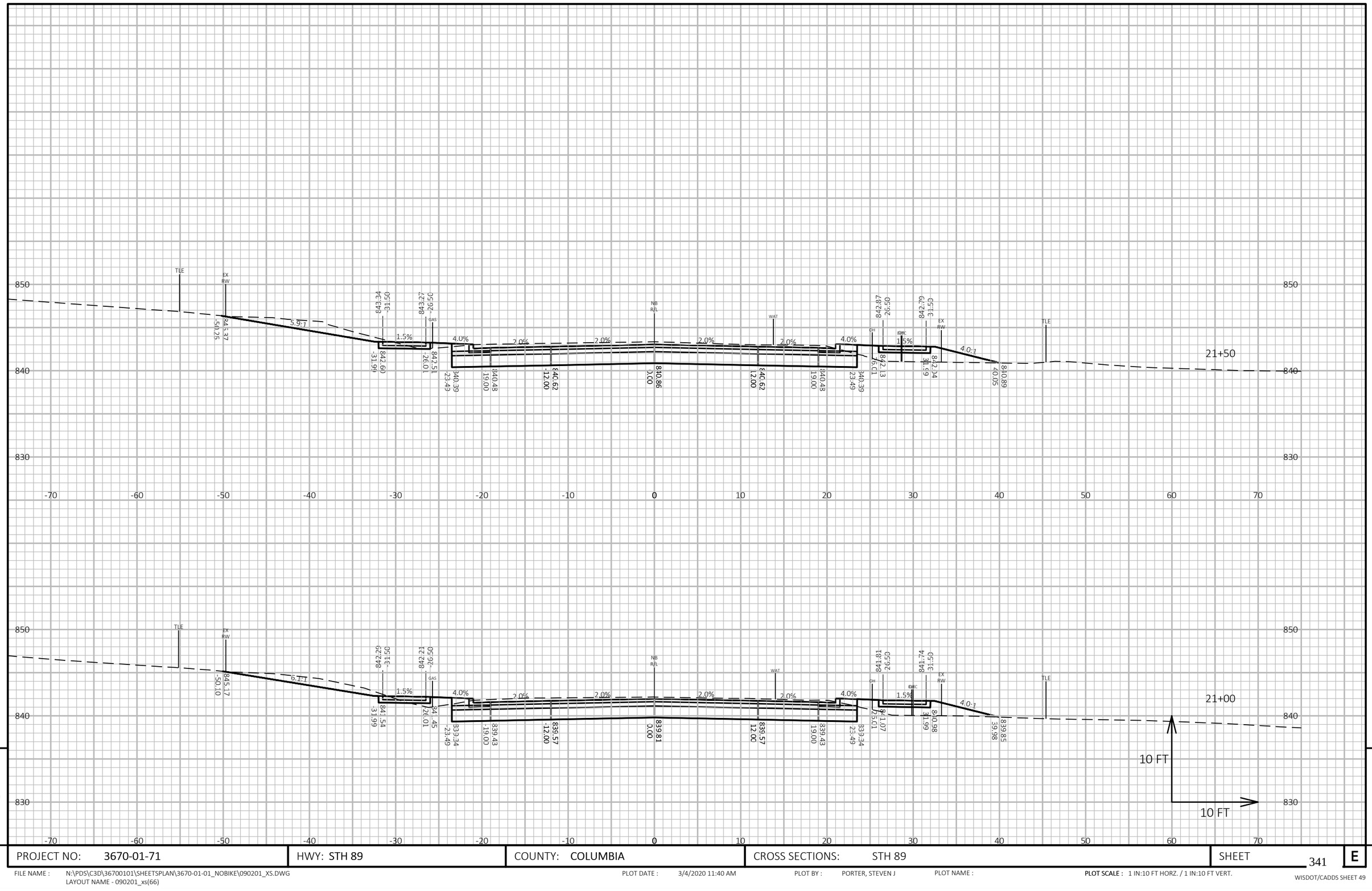
PLOT DATE : 3/4/2020 11:40 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 341	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(66)

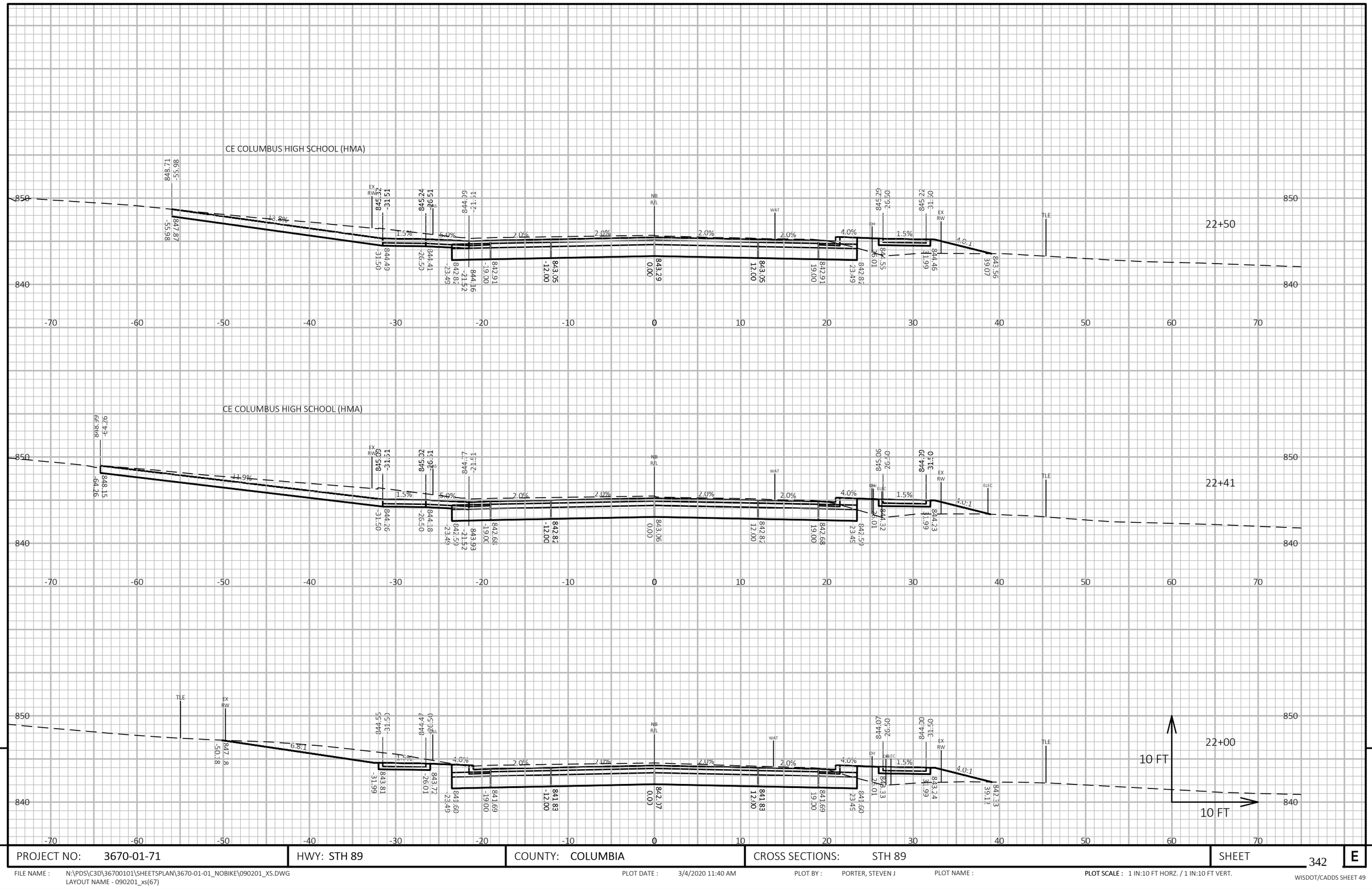
PLOT DATE : 3/4/2020 11:40 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 342	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(67)

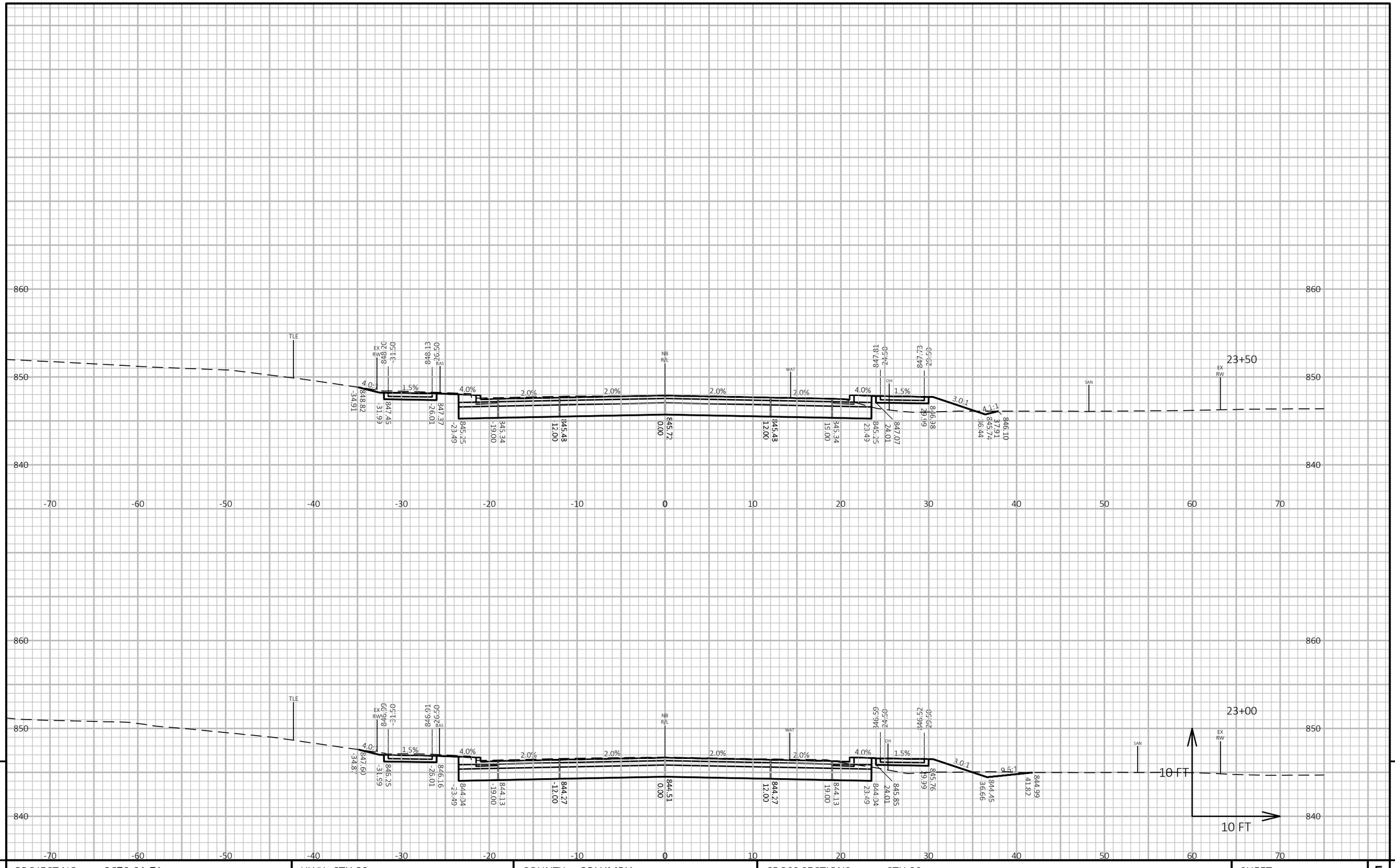
PLOT DATE : 3/4/2020 11:40 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 343	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(68)

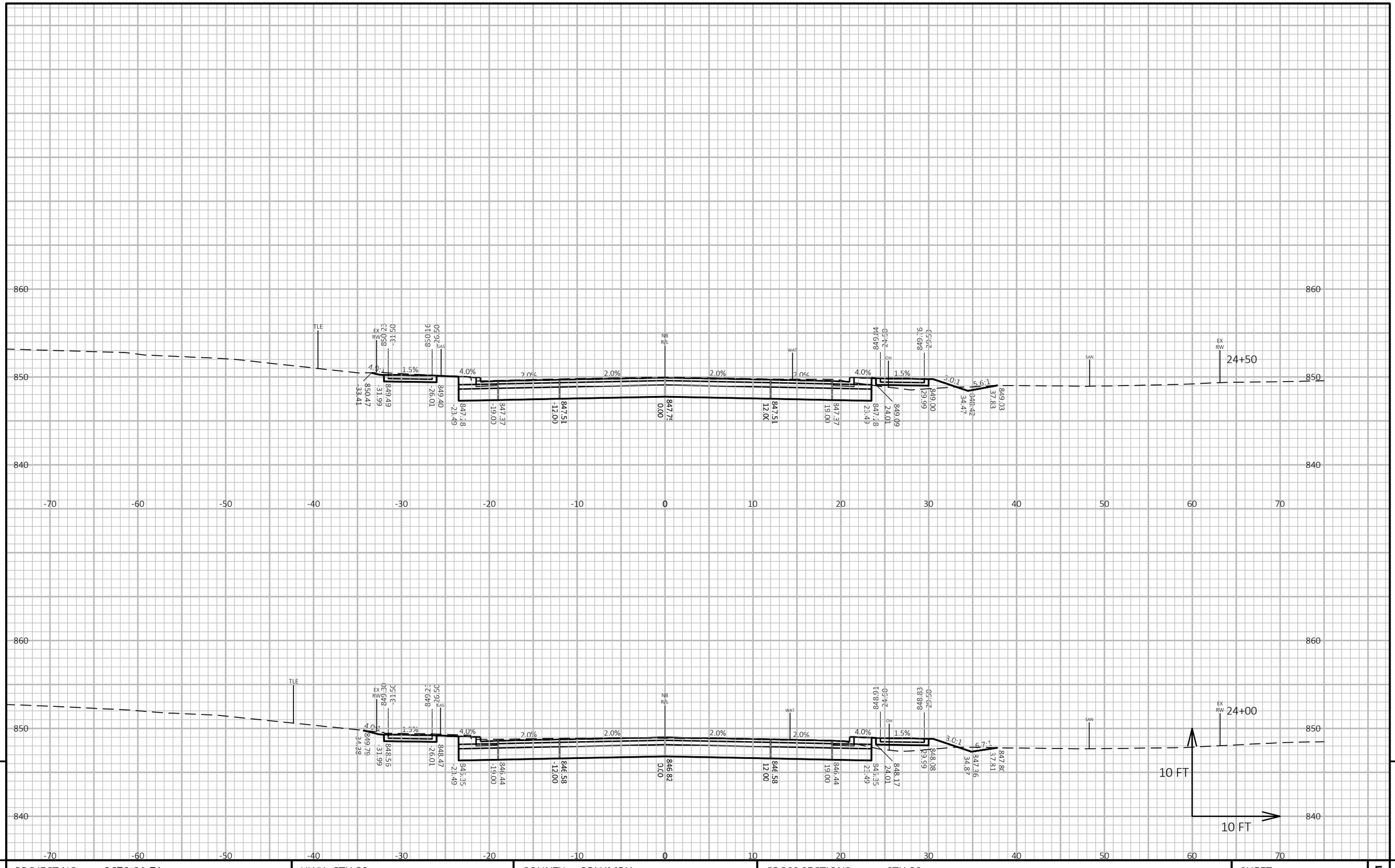
PLOT DATE : 3/4/2020 11:40 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 344	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(69)

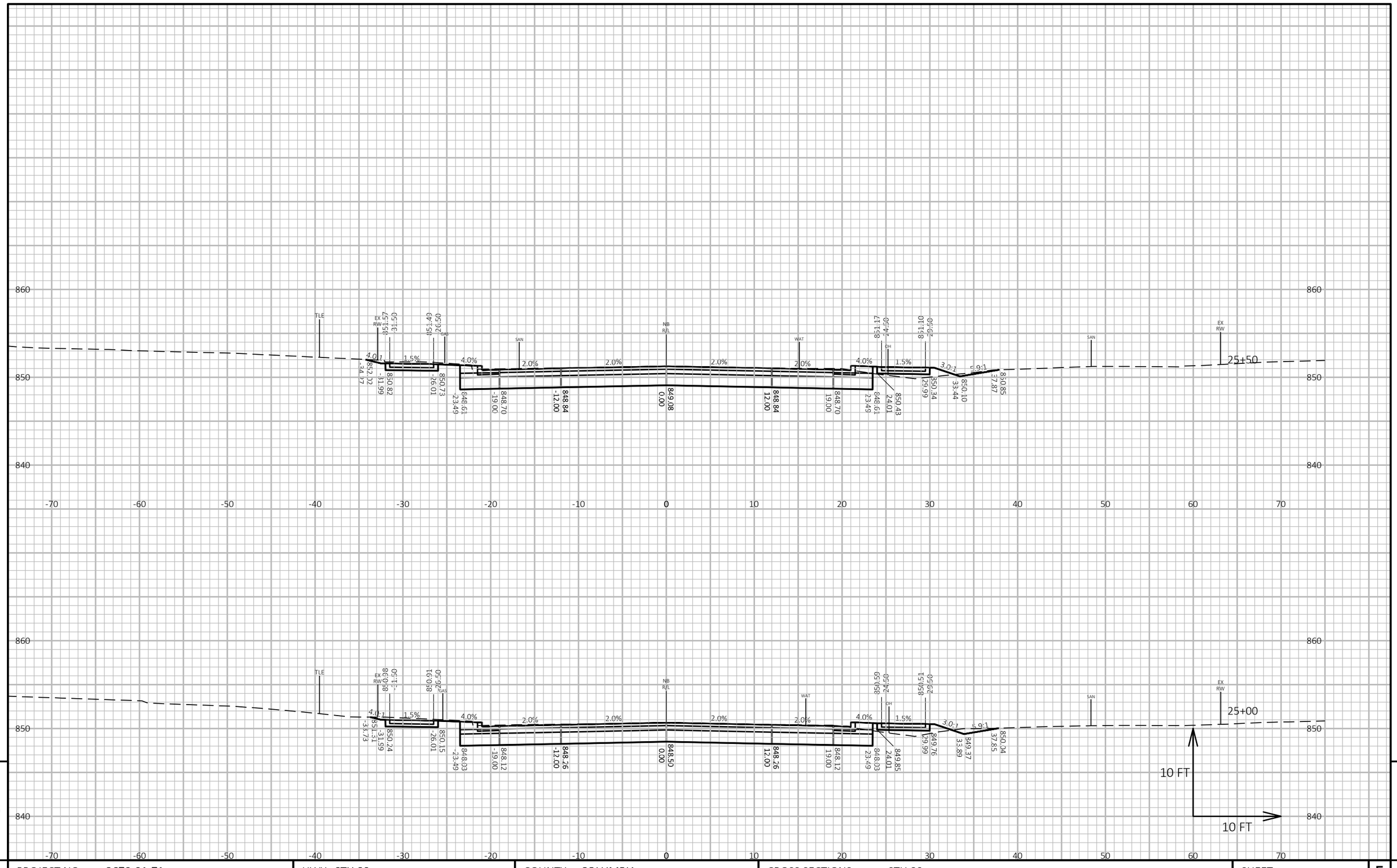
PLOT DATE : 3/4/2020 11:41 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 345	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(70)

PLOT DATE : 3/4/2020 11:41 AM

PLOT BY : PORTER, STEVEN J

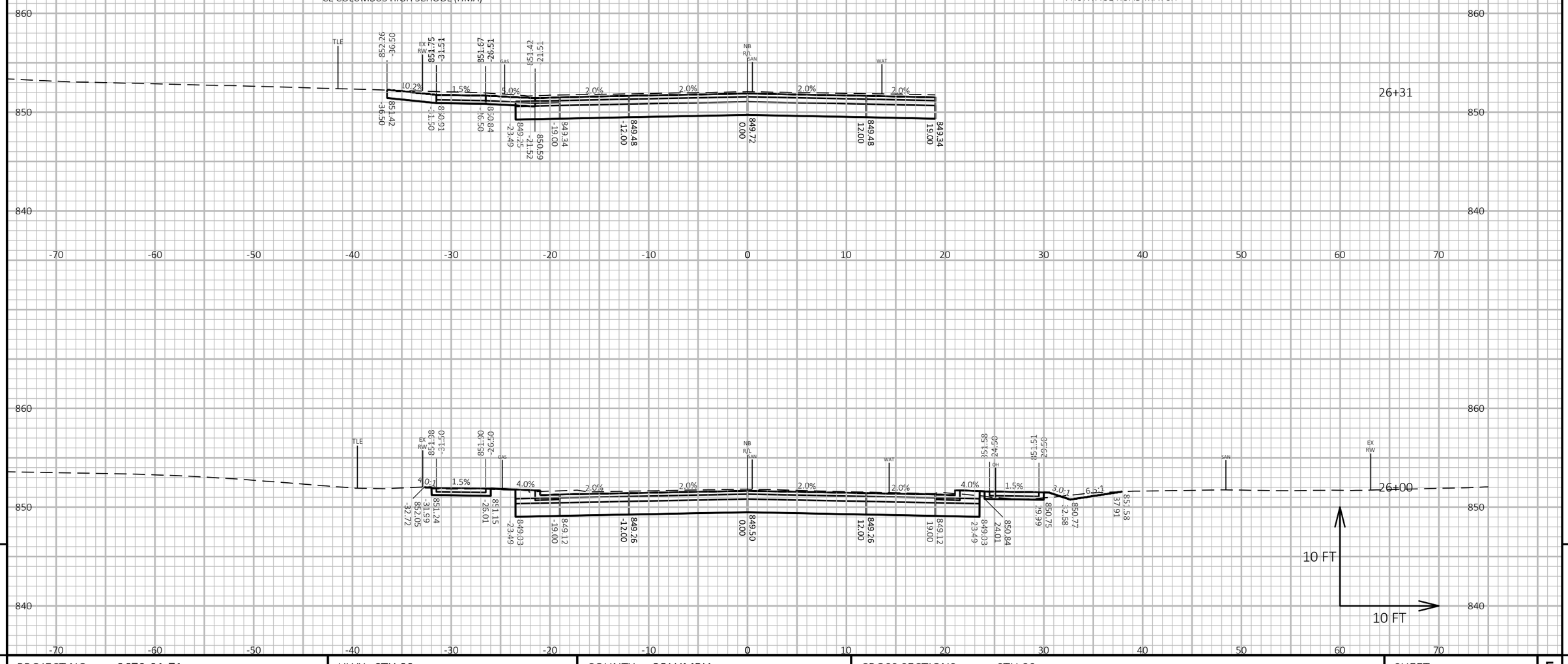
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CE COLUMBUS HIGH SCHOOL (HMA)

FRONTAGE ROAD MATCH



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 346	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(71)

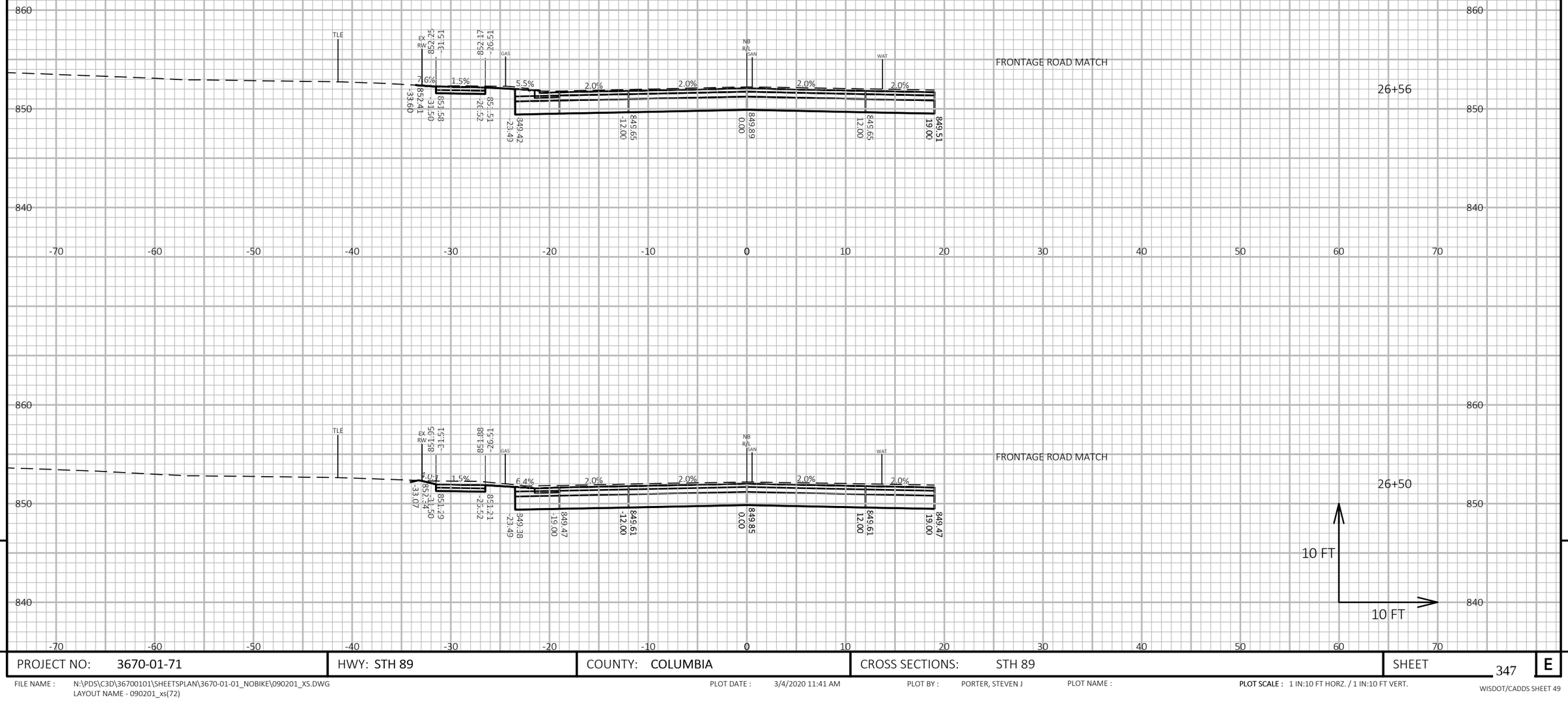
PLOT DATE : 3/4/2020 11:41 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 347	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(72)

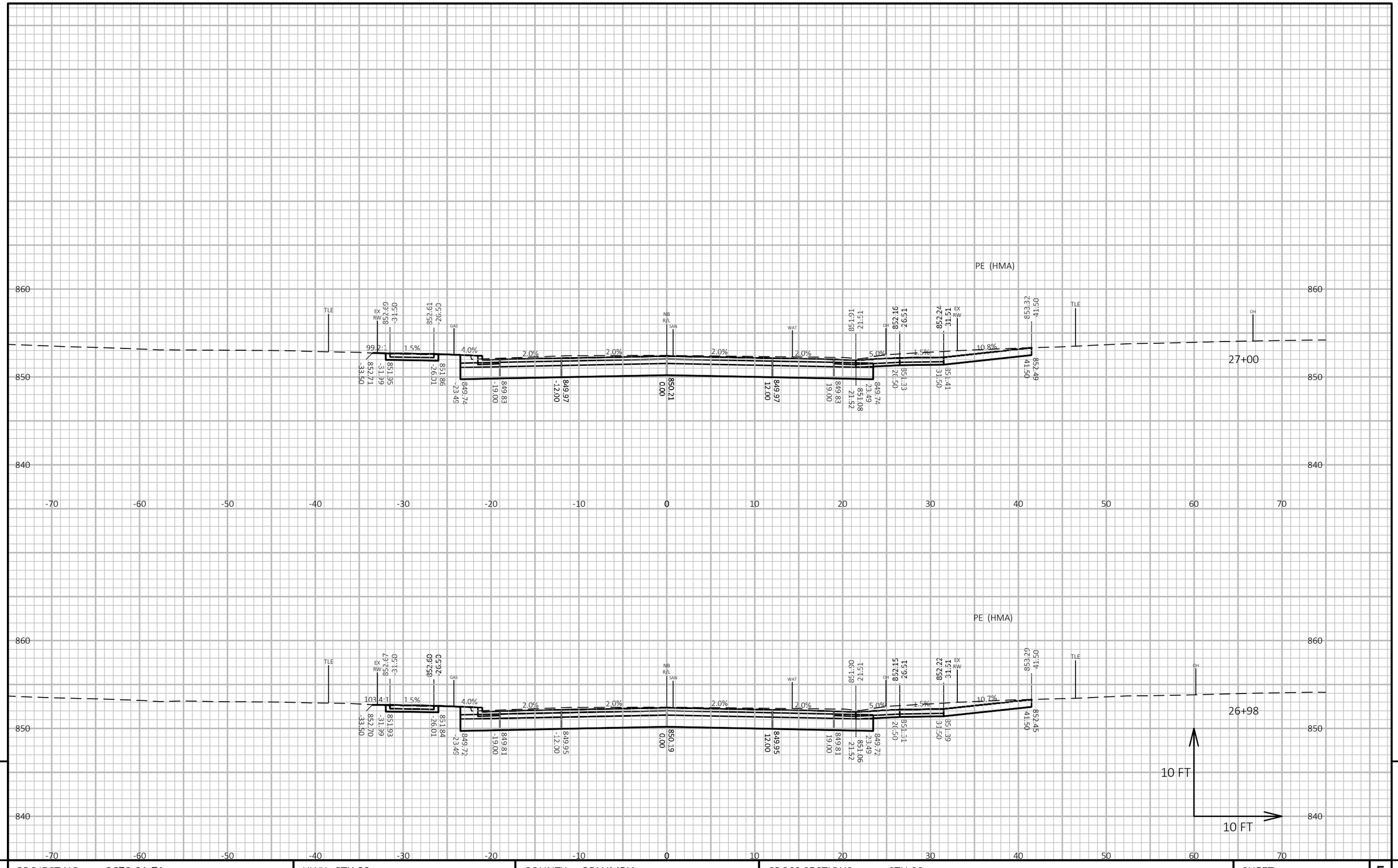
PLOT DATE : 3/4/2020 11:41 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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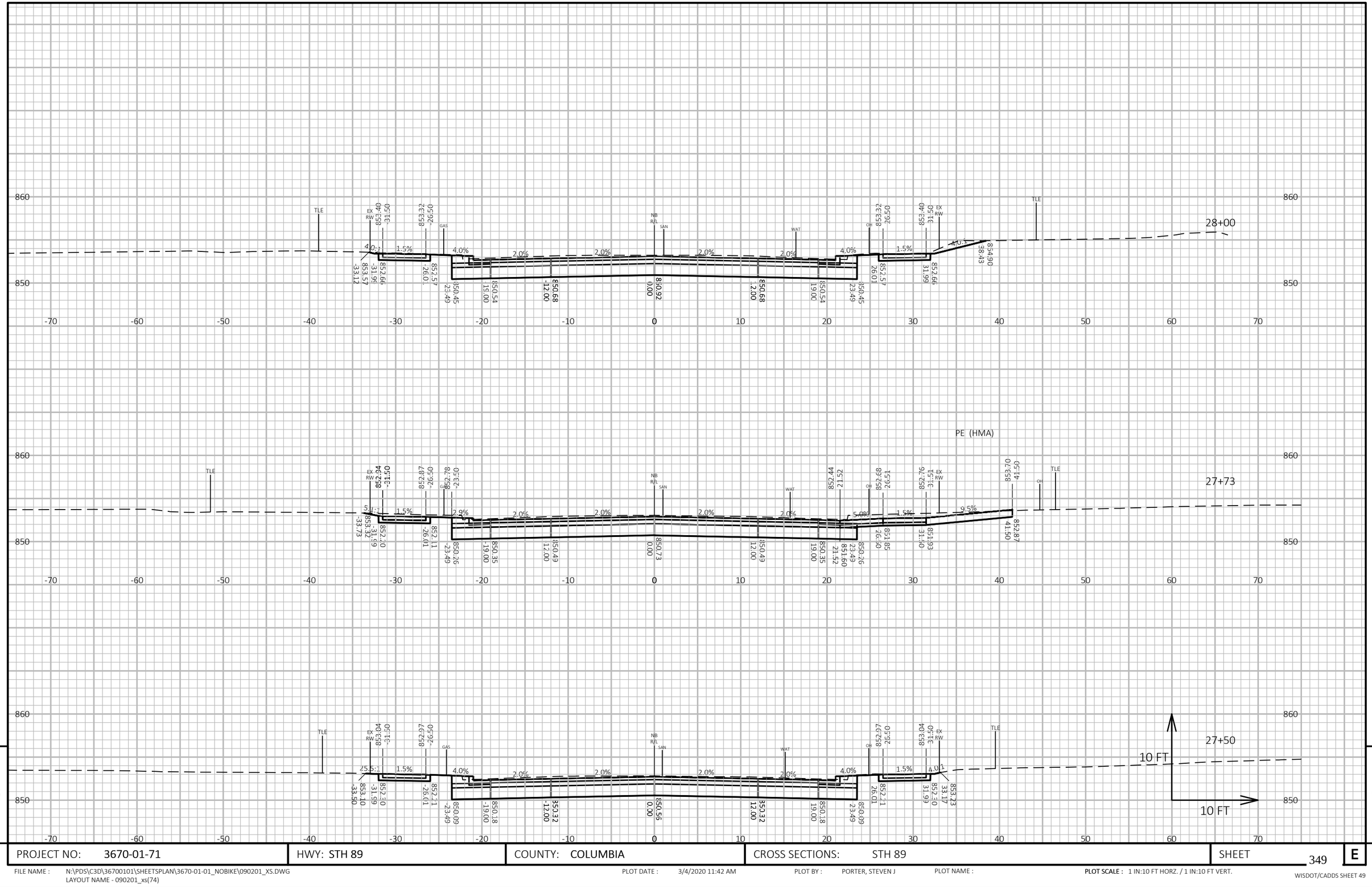
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 348	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(73)

PLOT DATE : 3/4/2020 11:42 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 349	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(74)

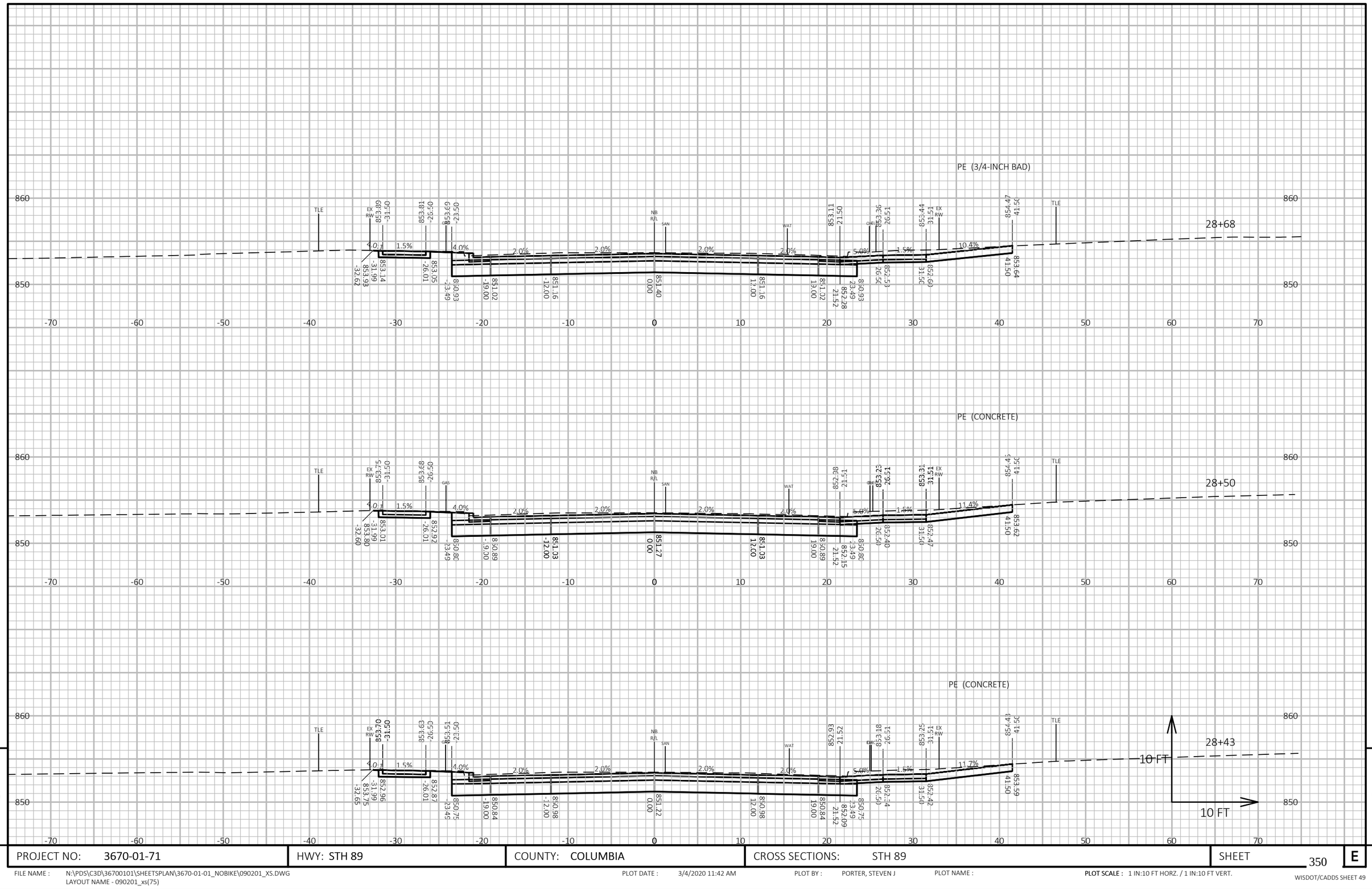
PLOT DATE : 3/4/2020 11:42 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 350	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(75)

PLOT DATE : 3/4/2020 11:42 AM

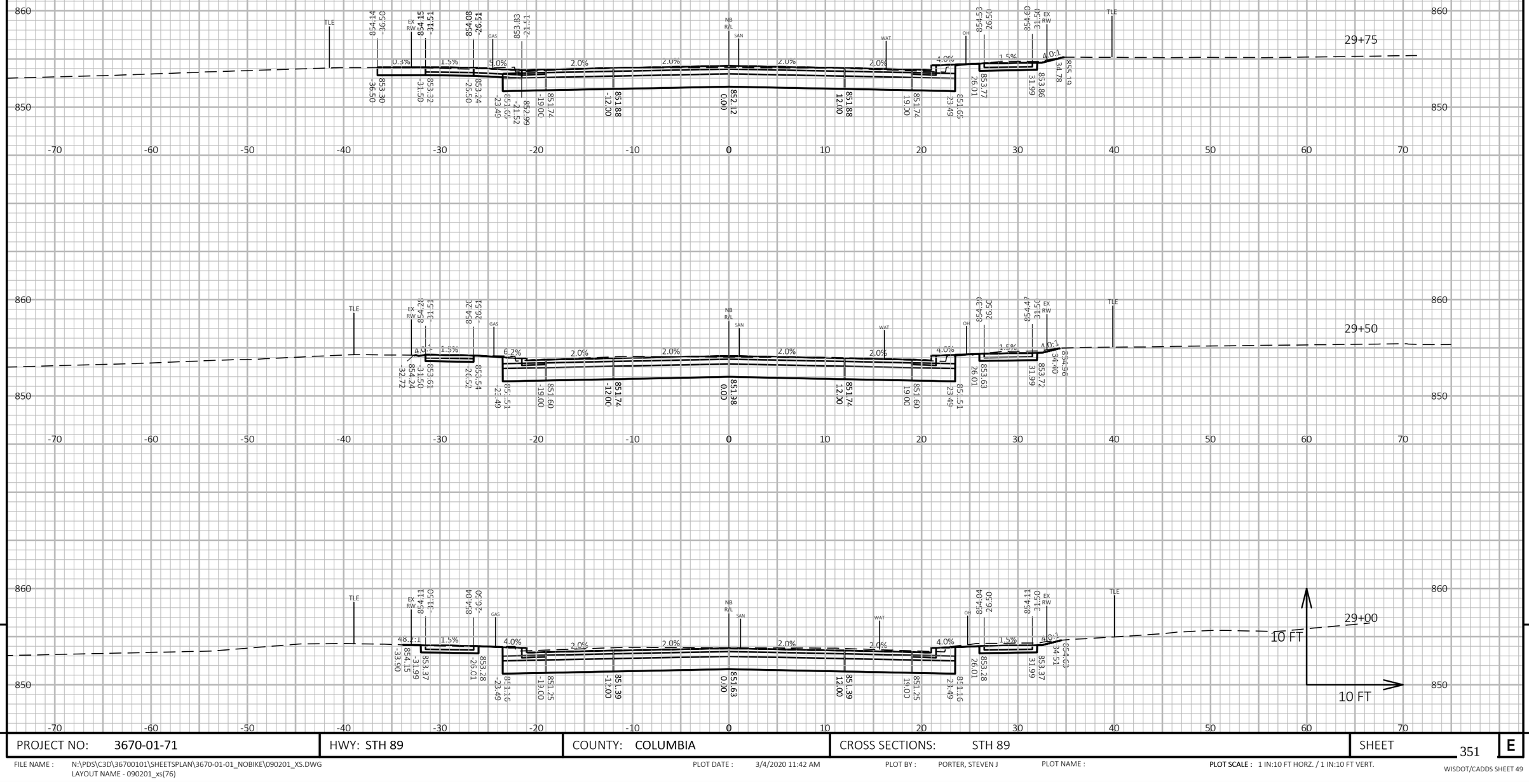
PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CE COLUMBUS HIGH SCHOOL (HMA)



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 351	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(76)

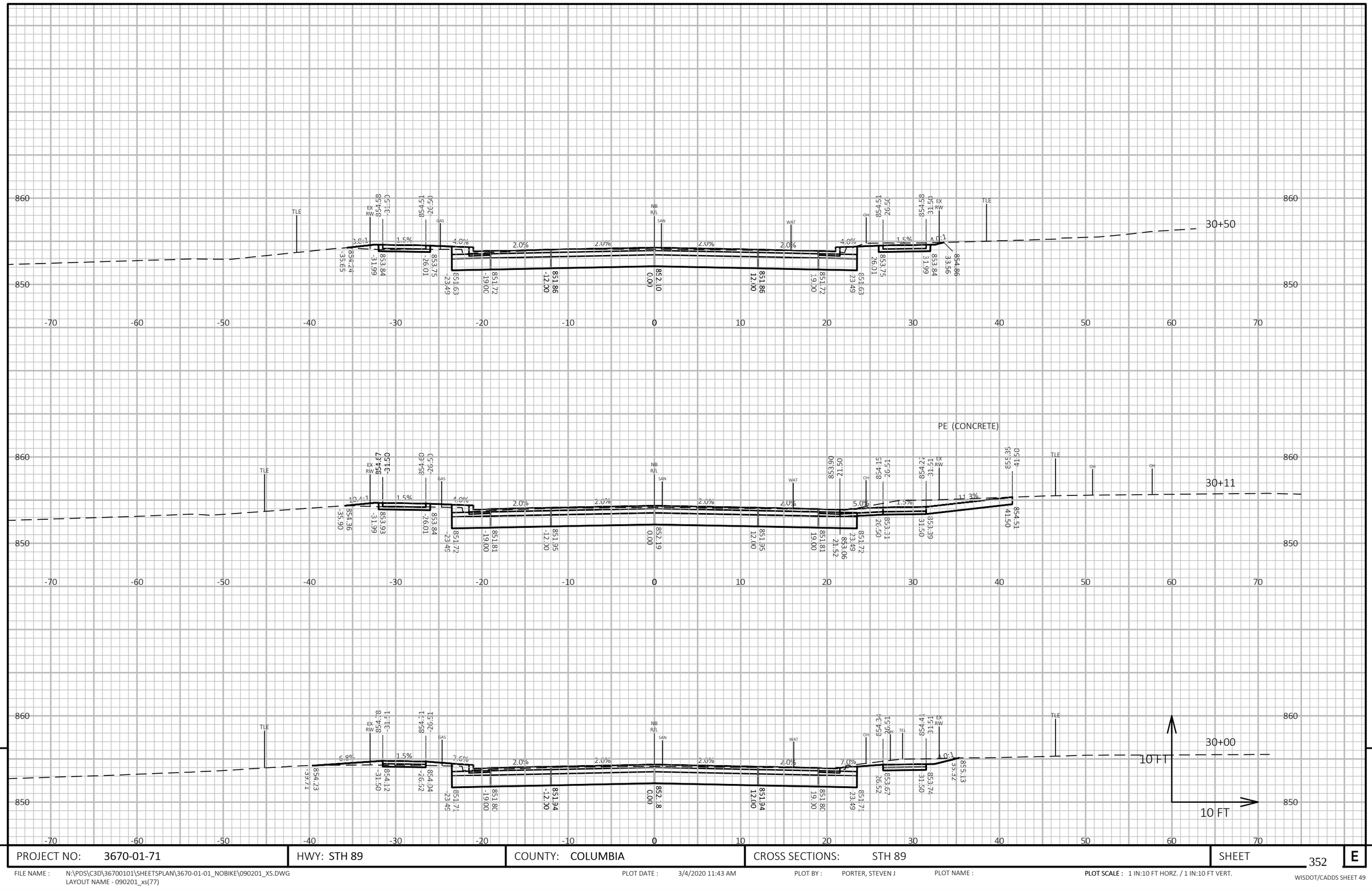
PLOT DATE : 3/4/2020 11:42 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 352	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(77)

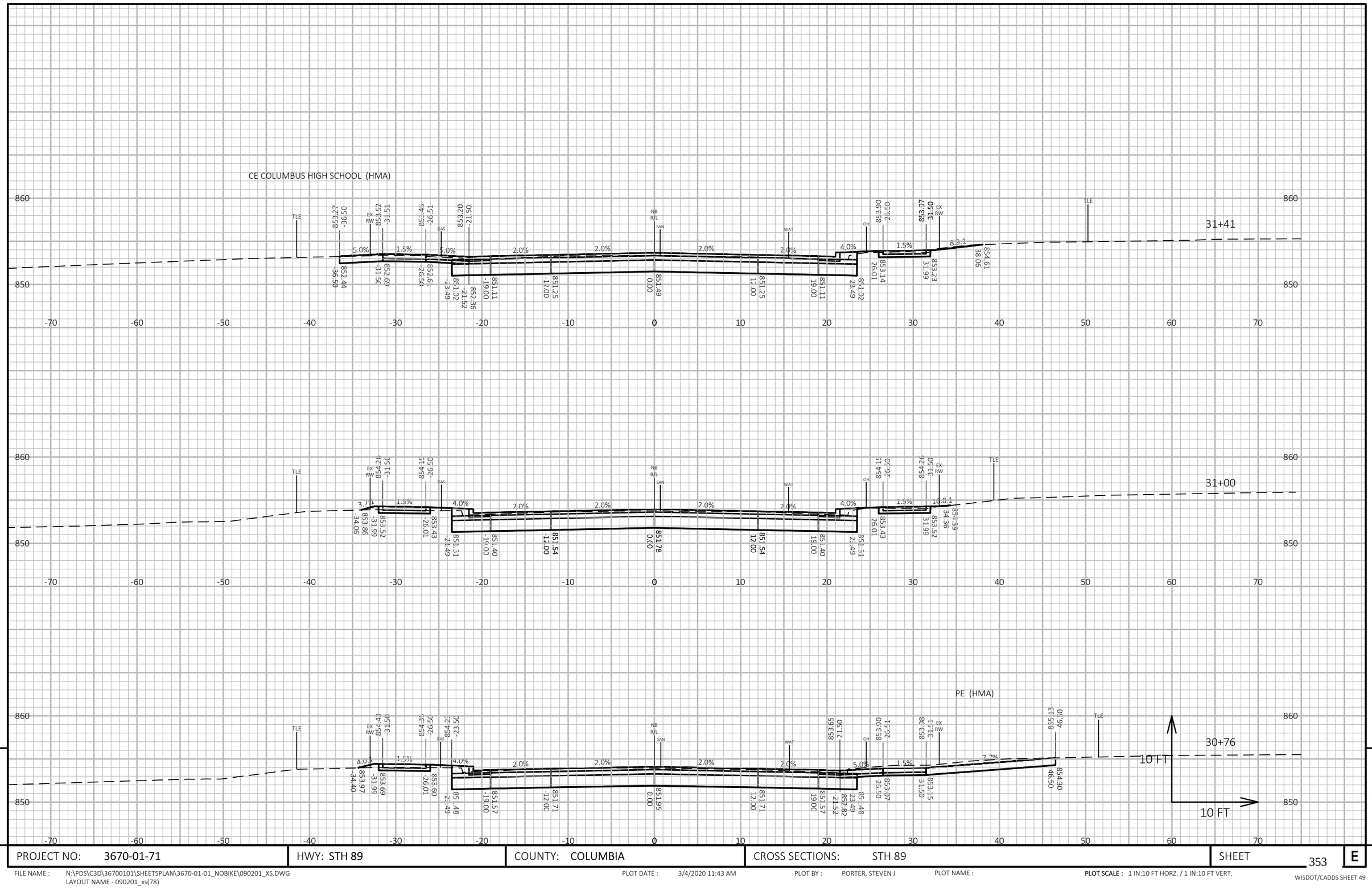
PLOT DATE : 3/4/2020 11:43 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 353	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(78)

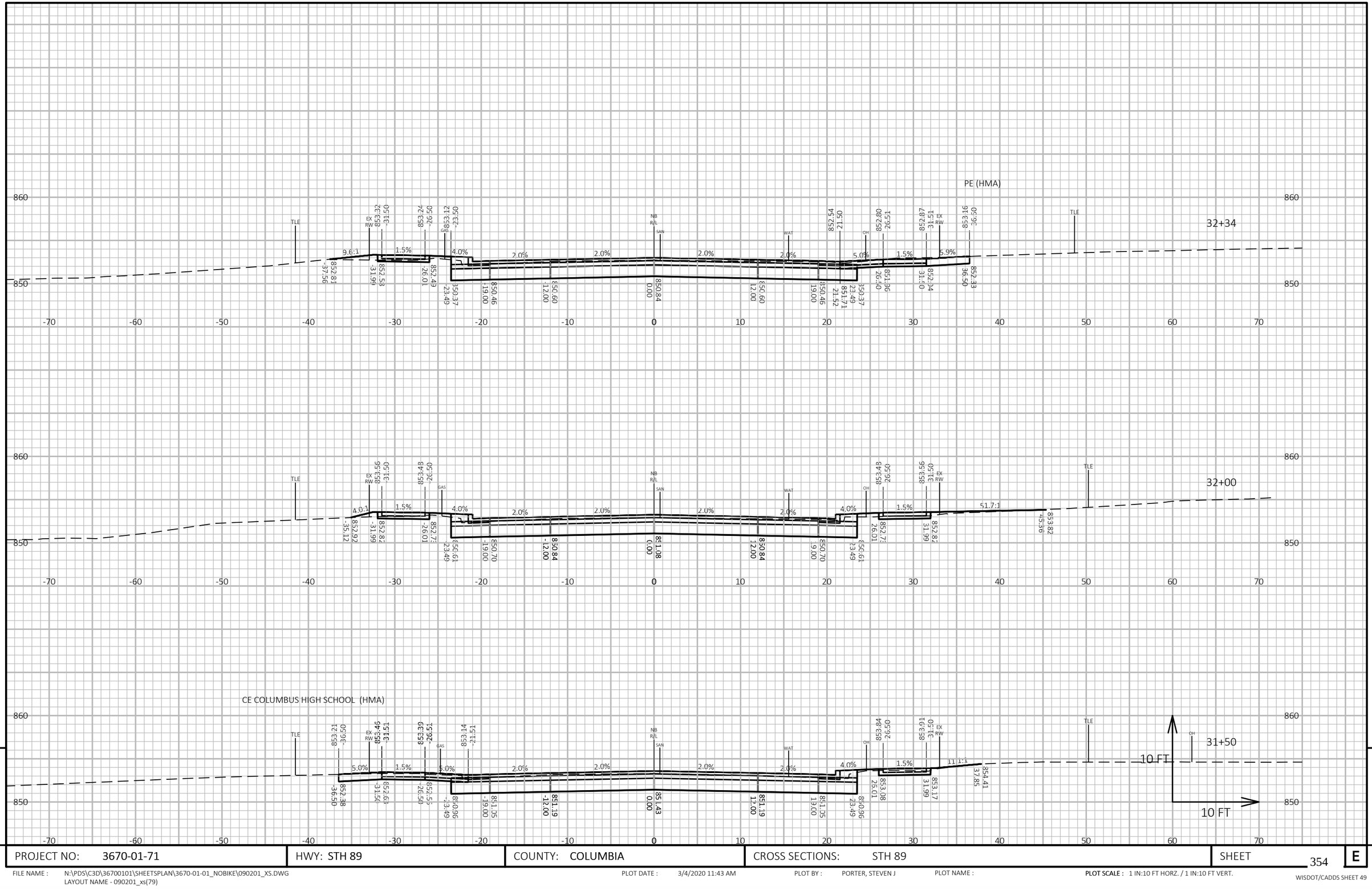
PLOT DATE : 3/4/2020 11:43 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 354	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(79)

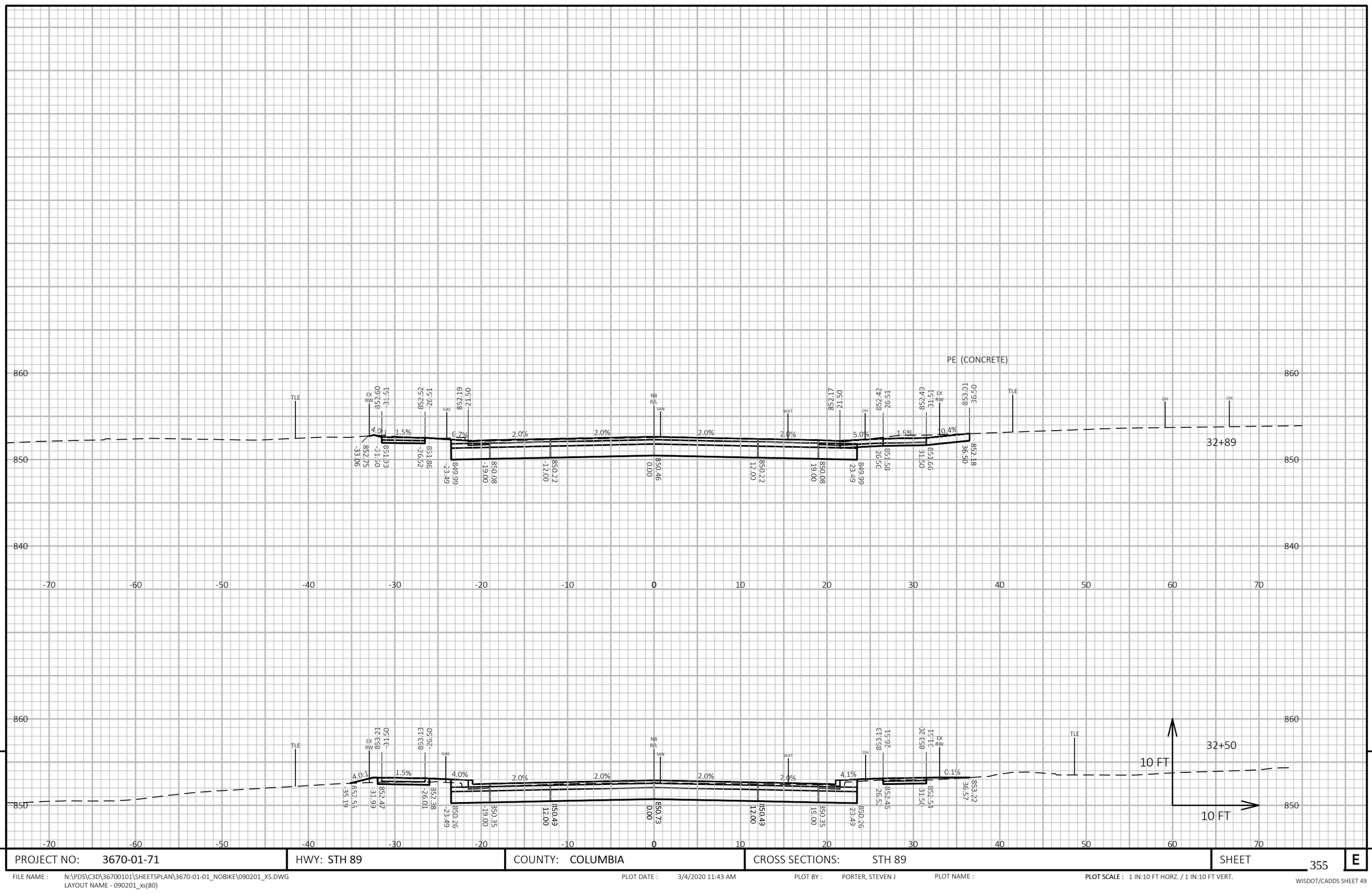
PLOT DATE : 3/4/2020 11:43 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



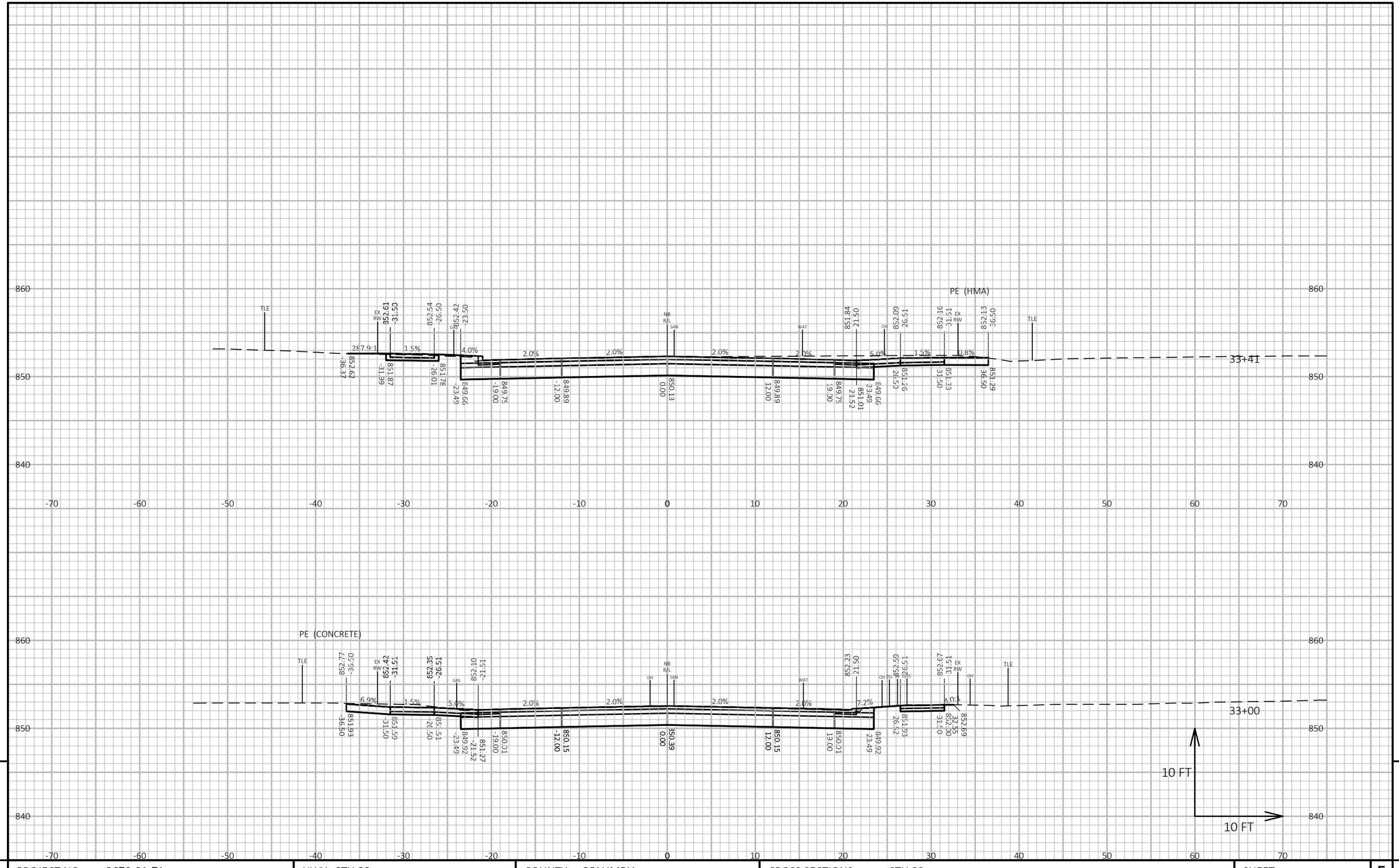
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 355 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(80)

PLOT DATE : 3/4/2020 11:43 AM PLOT BY : PORTER, STEVEN J PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PE (CONCRETE)

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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 356	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(81)

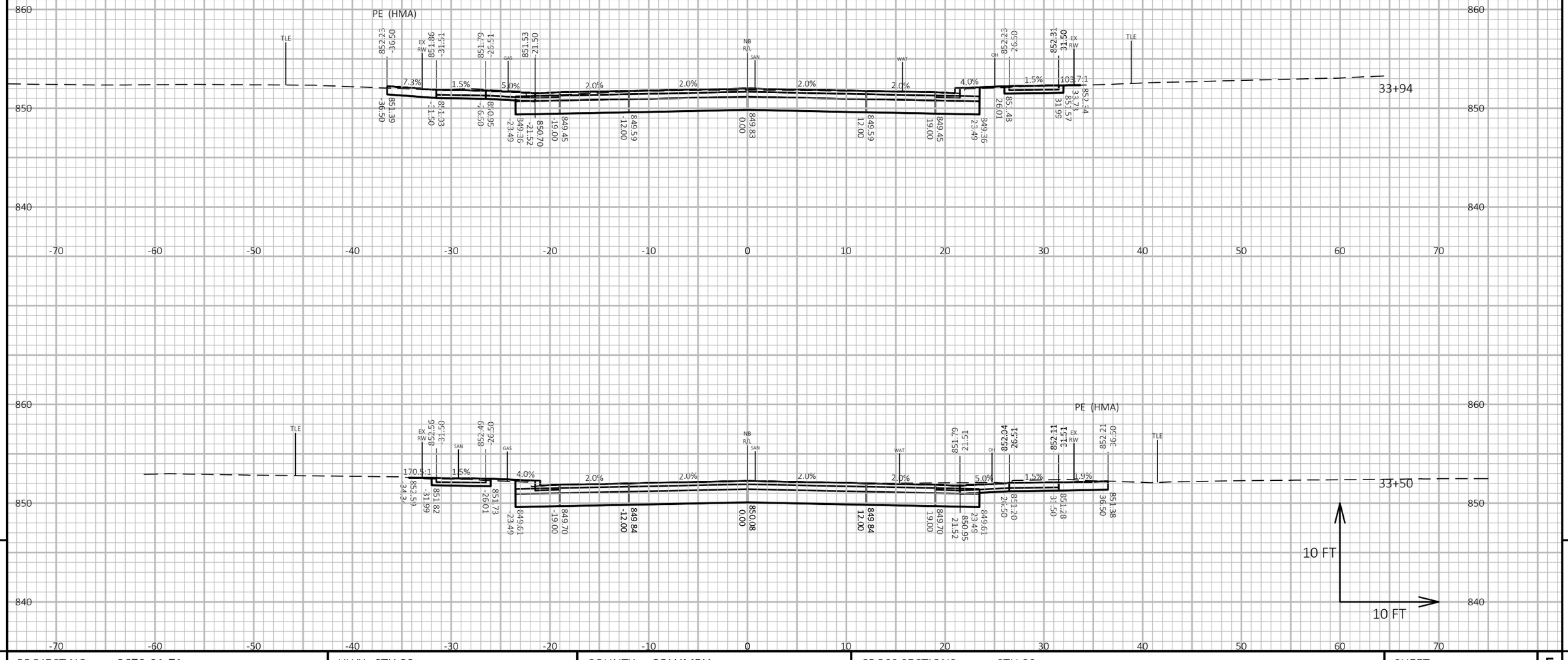
PLOT DATE : 3/4/2020 11:43 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 357	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(82)

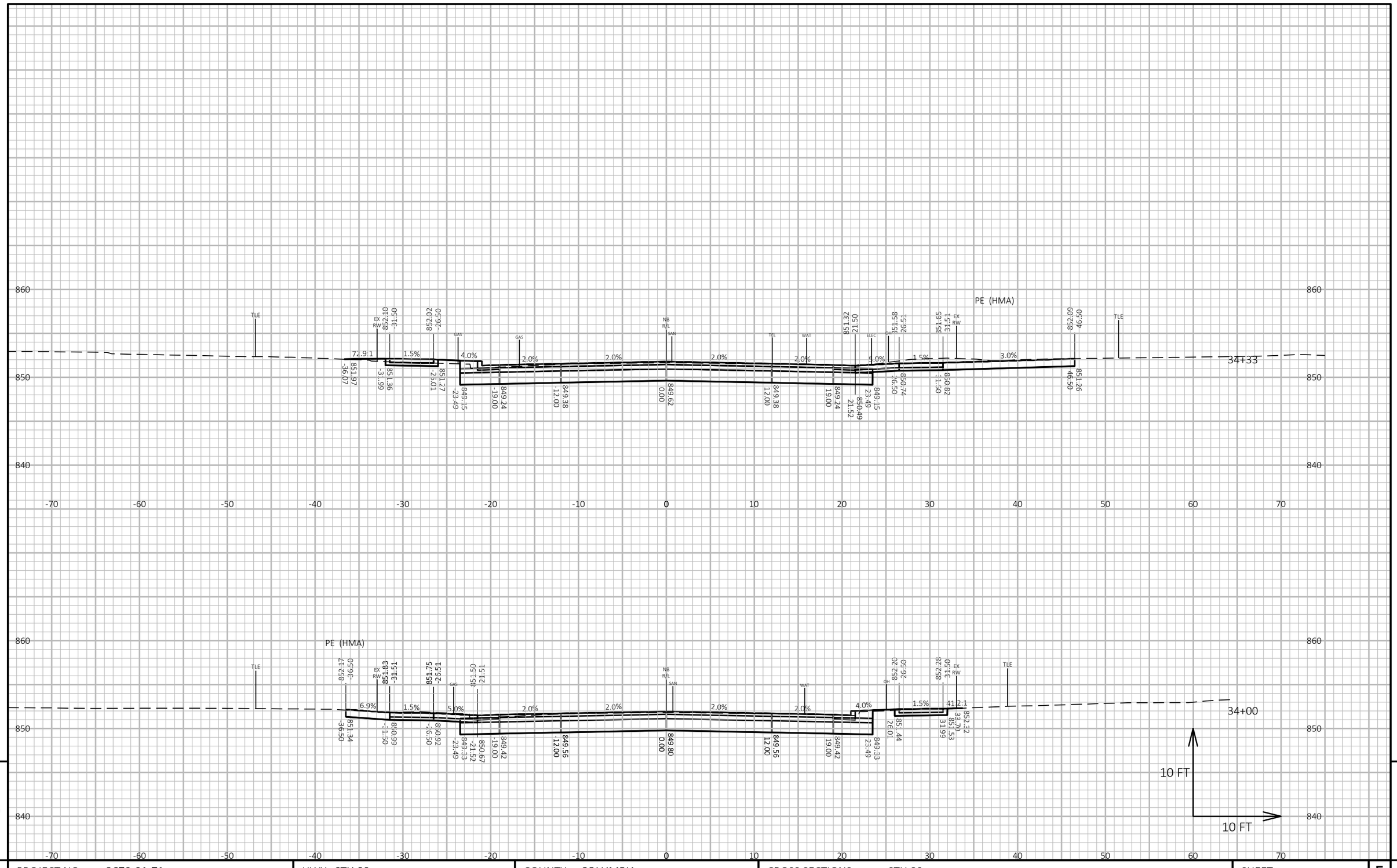
PLOT DATE : 3/4/2020 11:44 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 358 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(83)

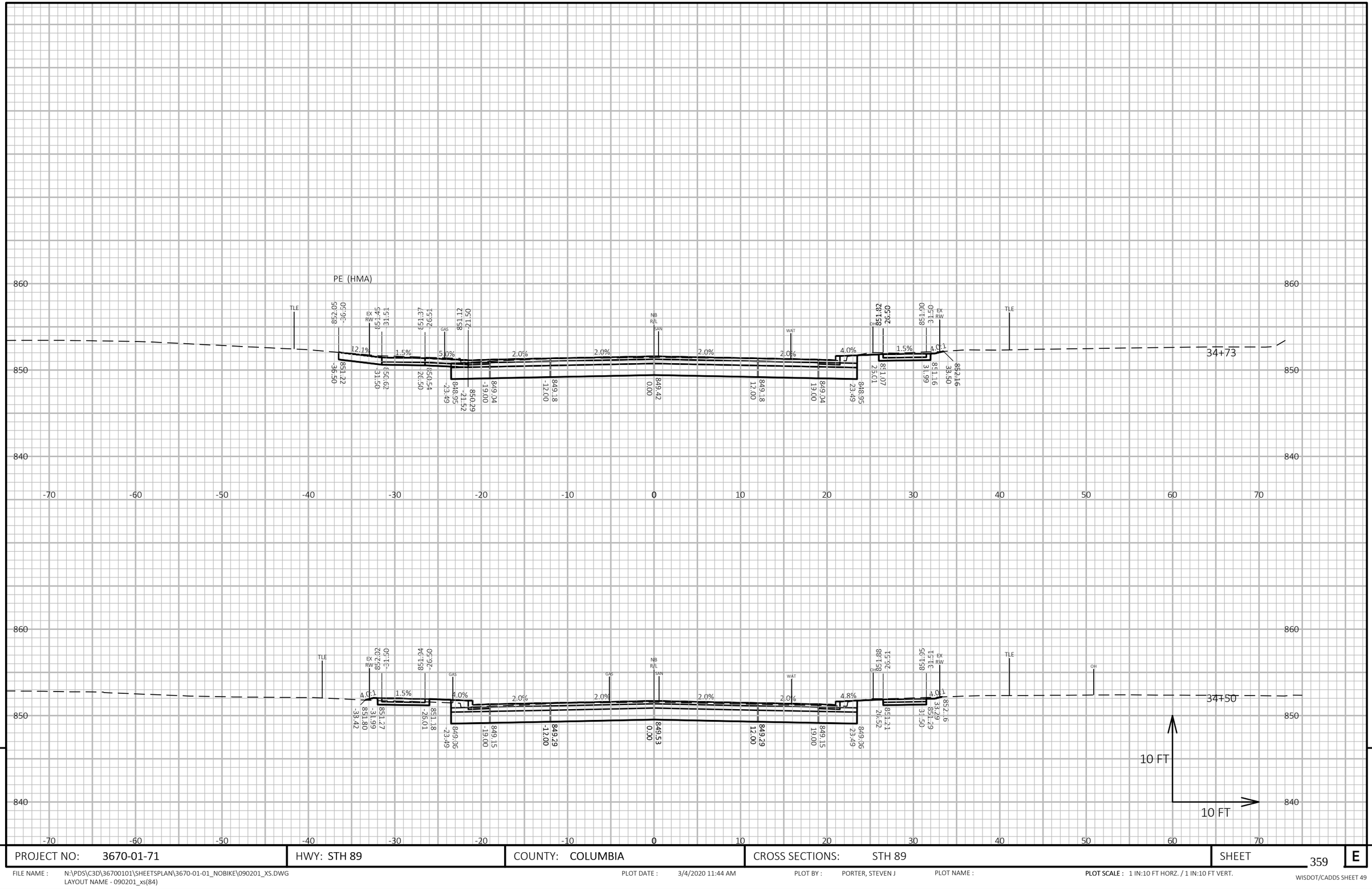
PLOT DATE : 3/4/2020 11:44 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 359	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(84)

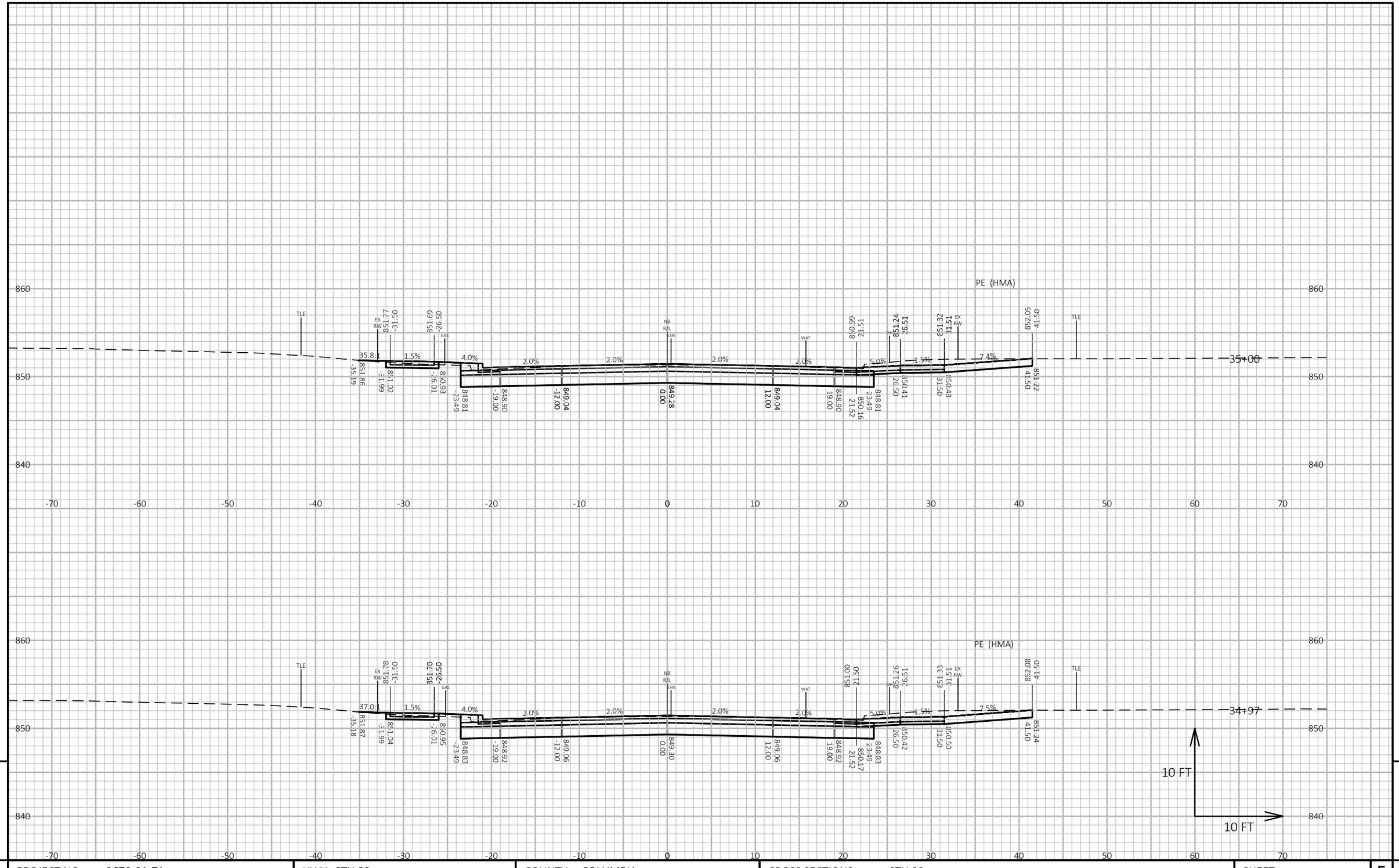
PLOT DATE : 3/4/2020 11:44 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 360	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(85)

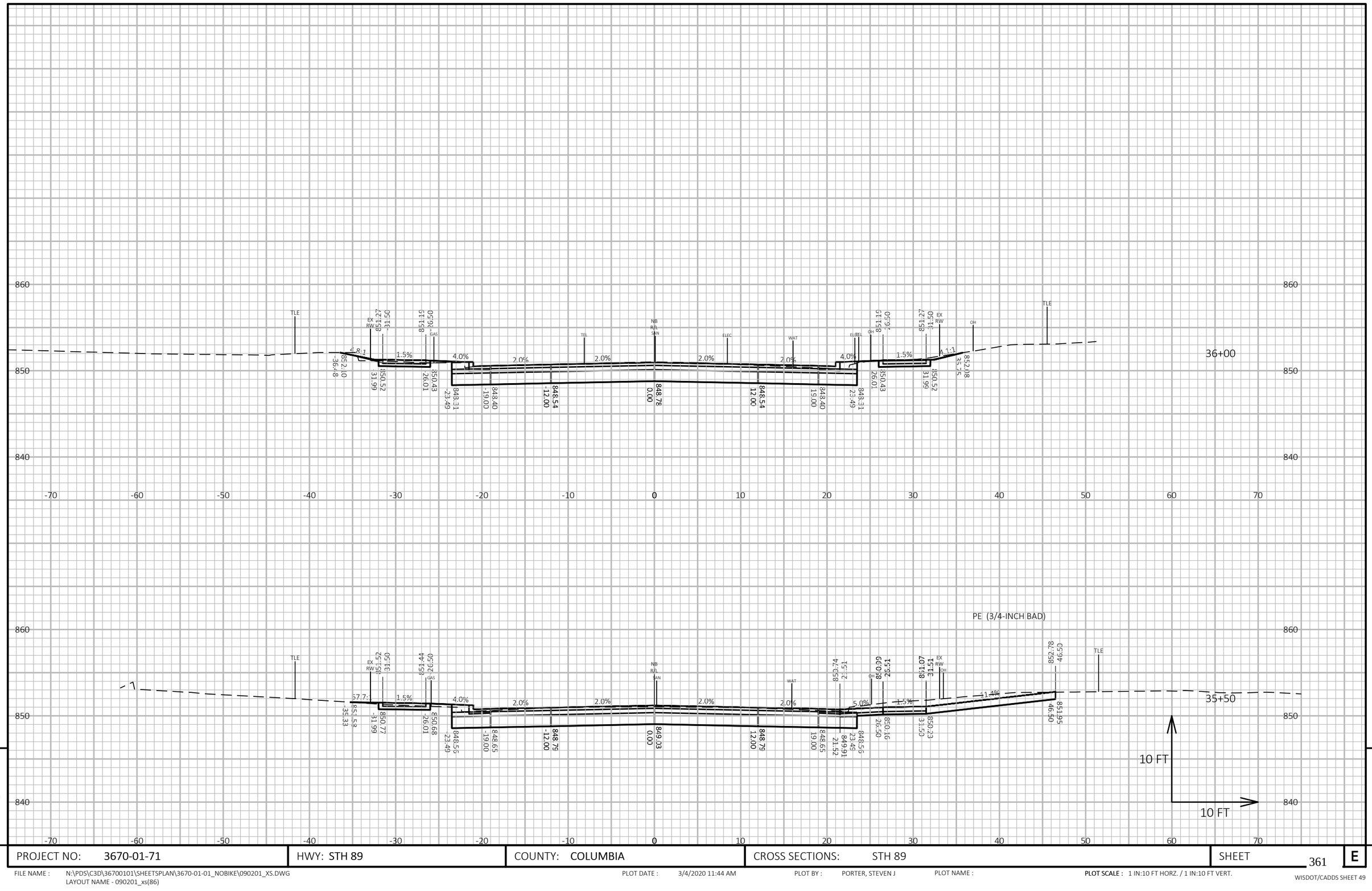
PLOT DATE : 3/4/2020 11:44 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 361	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(86)

PLOT DATE : 3/4/2020 11:44 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

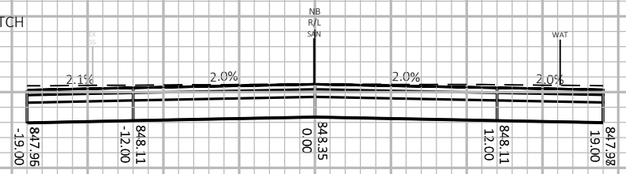
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

860
850
840

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

FOLSOM STREET MATCH



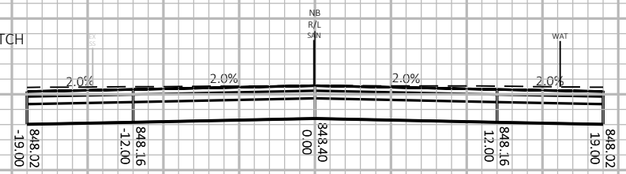
FOLSOM STREET MATCH

36+53

860
850
840

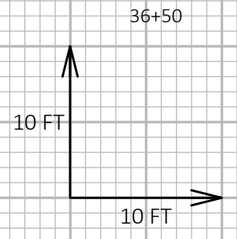
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

FOLSOM STREET MATCH



FOLSOM STREET MATCH

36+50



860
850
840

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

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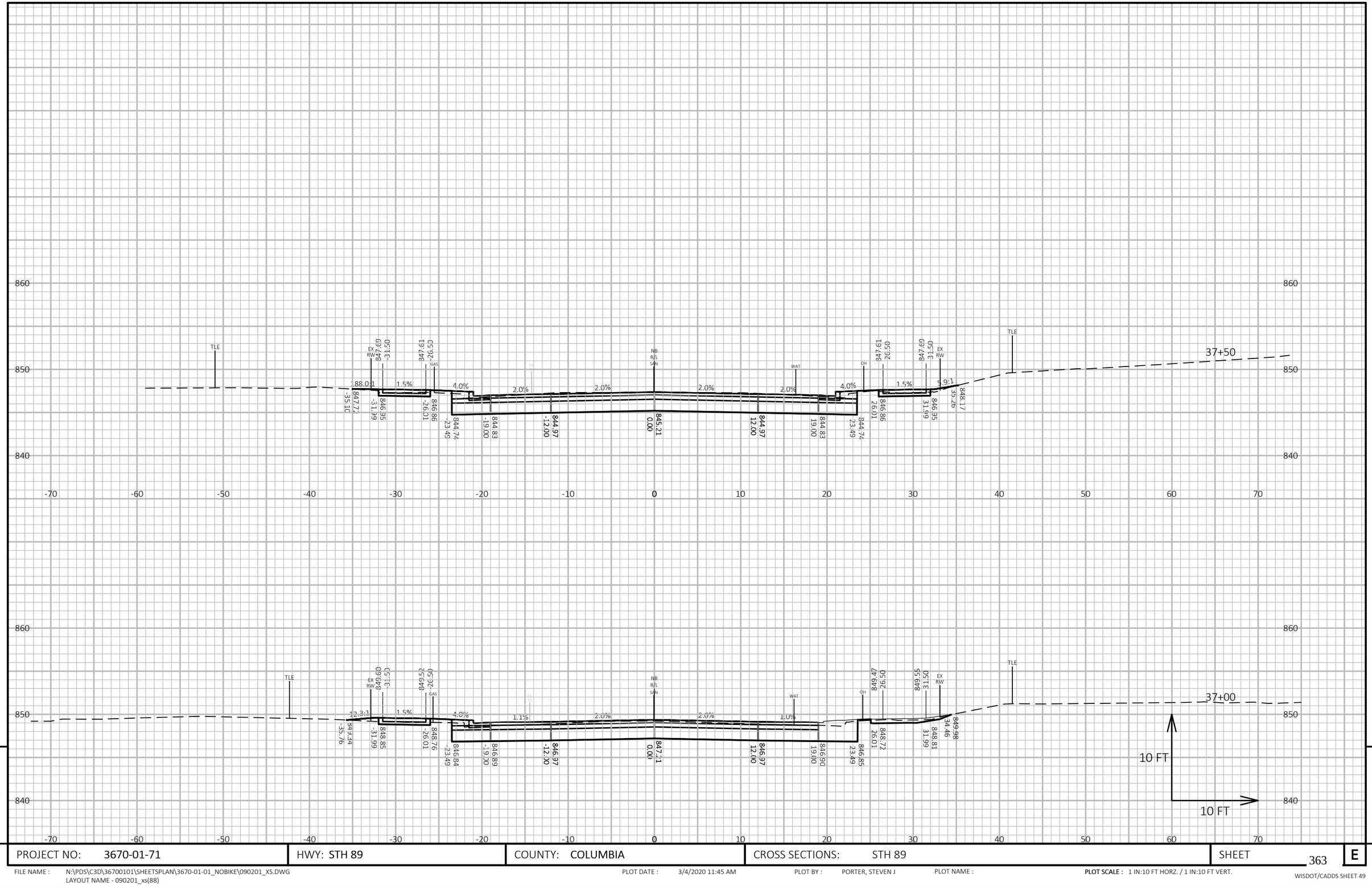
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 362	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(87)

PLOT DATE : 3/4/2020 11:45 AM PLOT BY : PORTER, STEVEN J PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

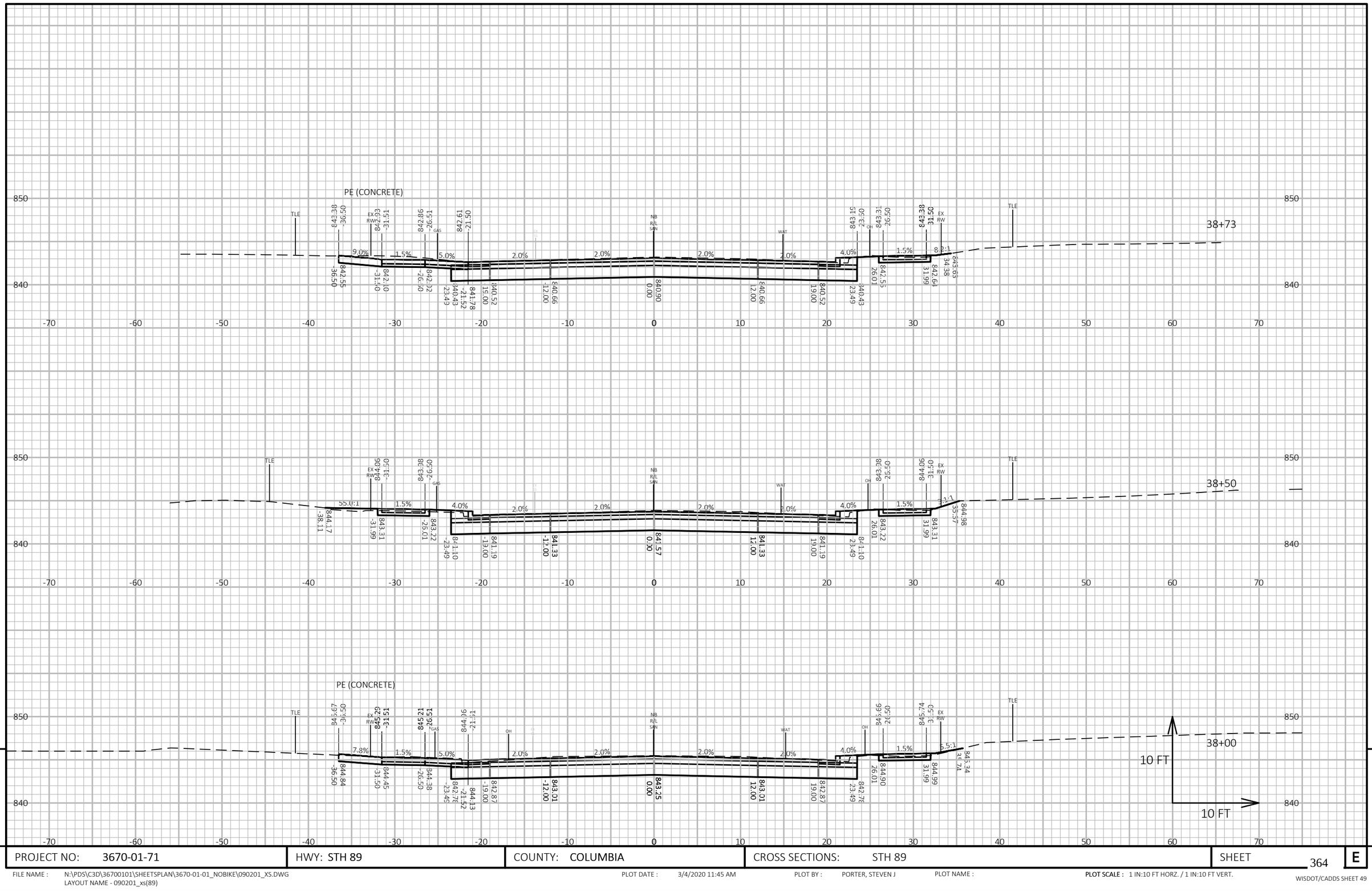


PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 363 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(88)

PLOT DATE : 3/4/2020 11:45 AM PLOT BY : PORTER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 364	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(89)

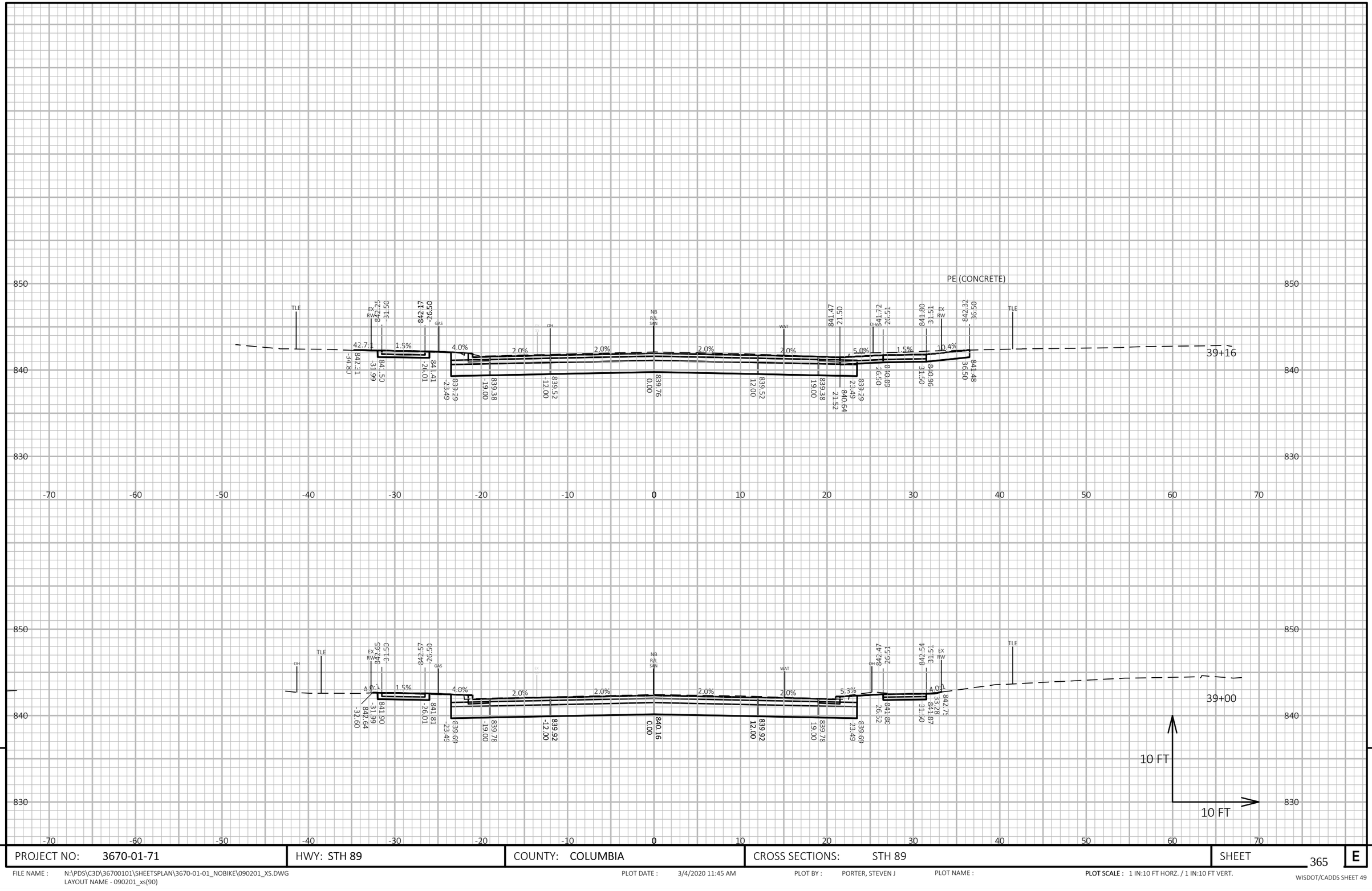
PLOT DATE : 3/4/2020 11:45 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 365	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(90)

PLOT DATE : 3/4/2020 11:45 AM

PLOT BY : PORTER, STEVEN J

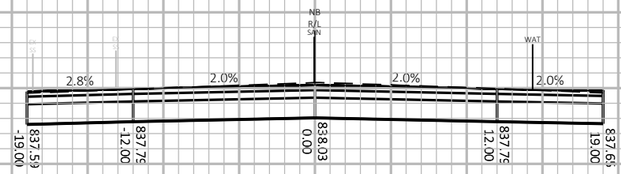
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

POET STREET MATCH

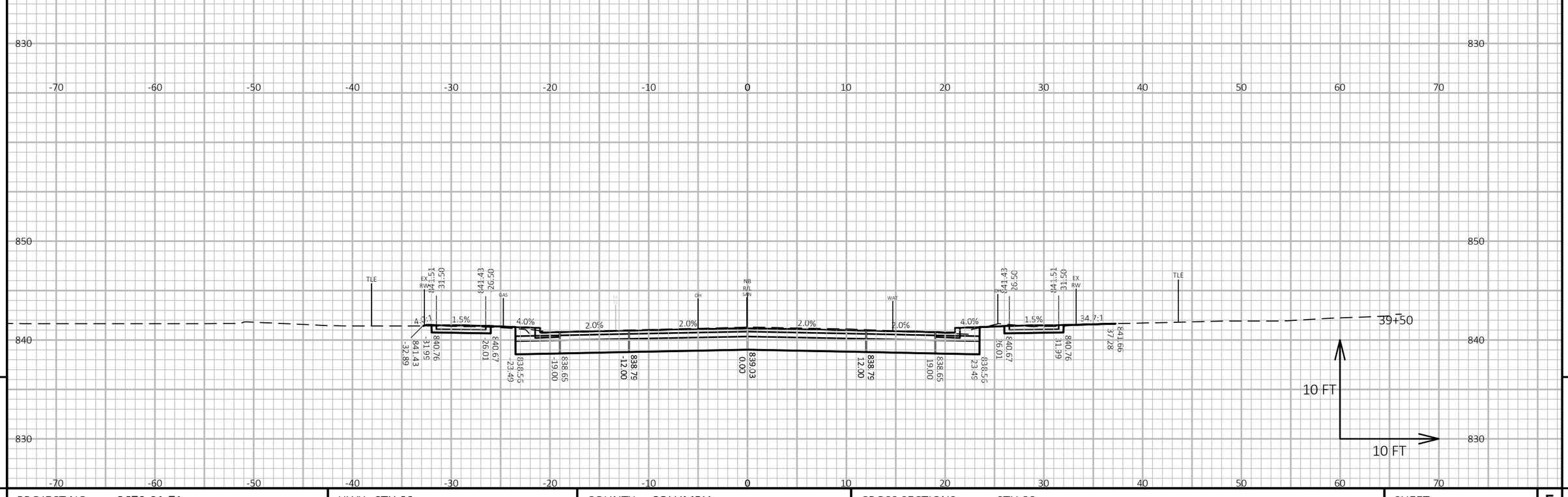
POET STREET MATCH



40+00

850
840
830

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 366	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(91)

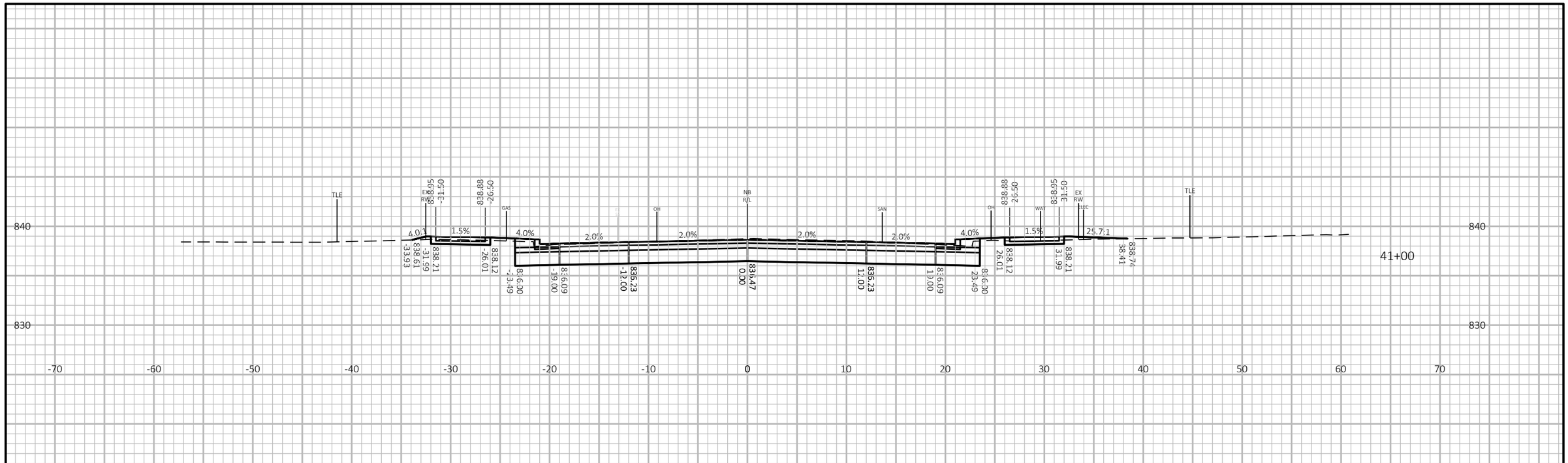
PLOT DATE : 3/4/2020 11:45 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 367	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(92)

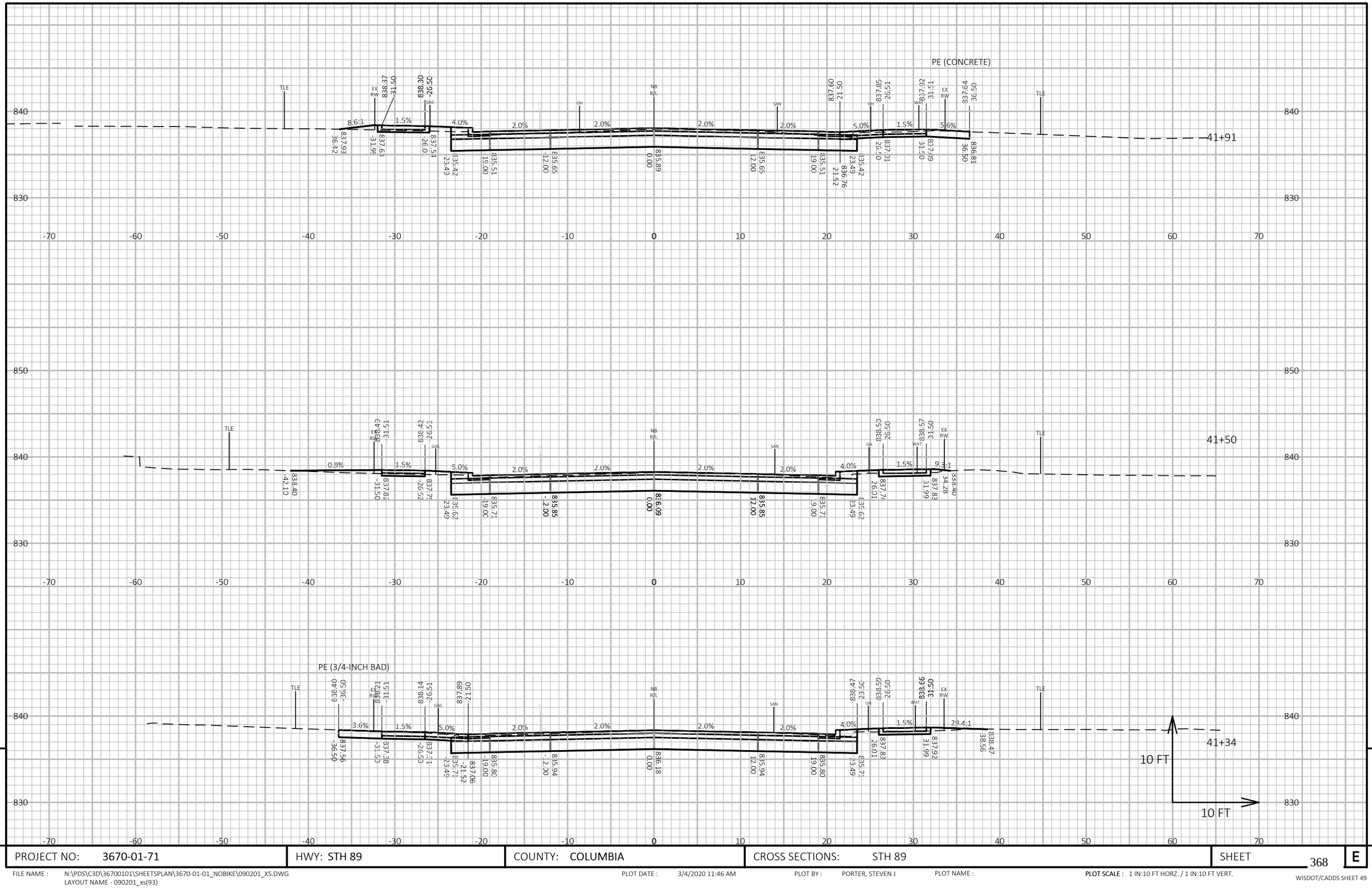
PLOT DATE : 3/4/2020 11:46 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 368	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(93)

PLOT DATE : 3/4/2020 11:46 AM

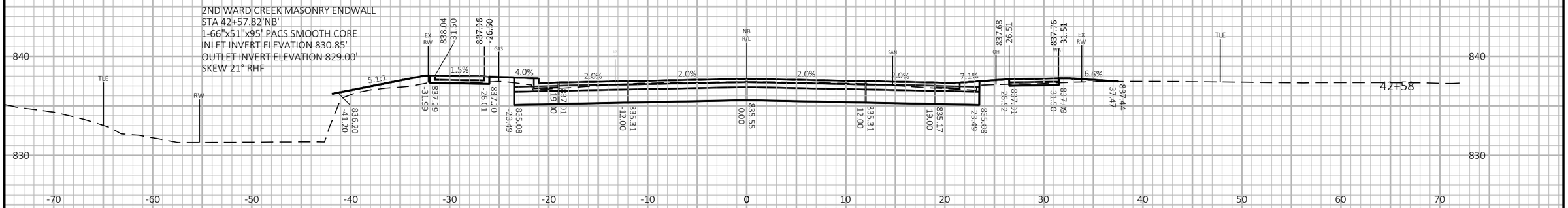
PLOT BY : PORTER, STEVEN J

PLOT NAME :

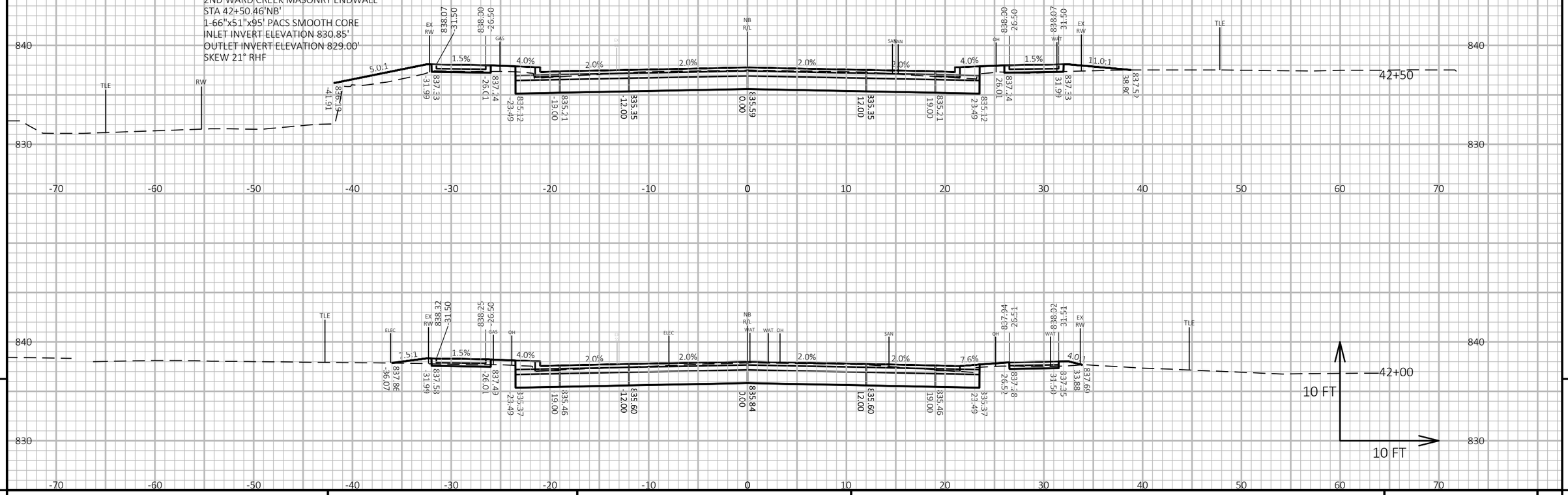
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

2ND WARD CREEK MASONRY ENDWALL
STA 42+57.82'NB'
1-66"x51"x95' PACS SMOOTH CORE
INLET INVERT ELEVATION 830.85'
OUTLET INVERT ELEVATION 829.00'
SKEW 21° RHF



2ND WARD CREEK MASONRY ENDWALL
STA 42+50.46'NB'
1-66"x51"x95' PACS SMOOTH CORE
INLET INVERT ELEVATION 830.85'
OUTLET INVERT ELEVATION 829.00'
SKEW 21° RHF



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 369	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(94)

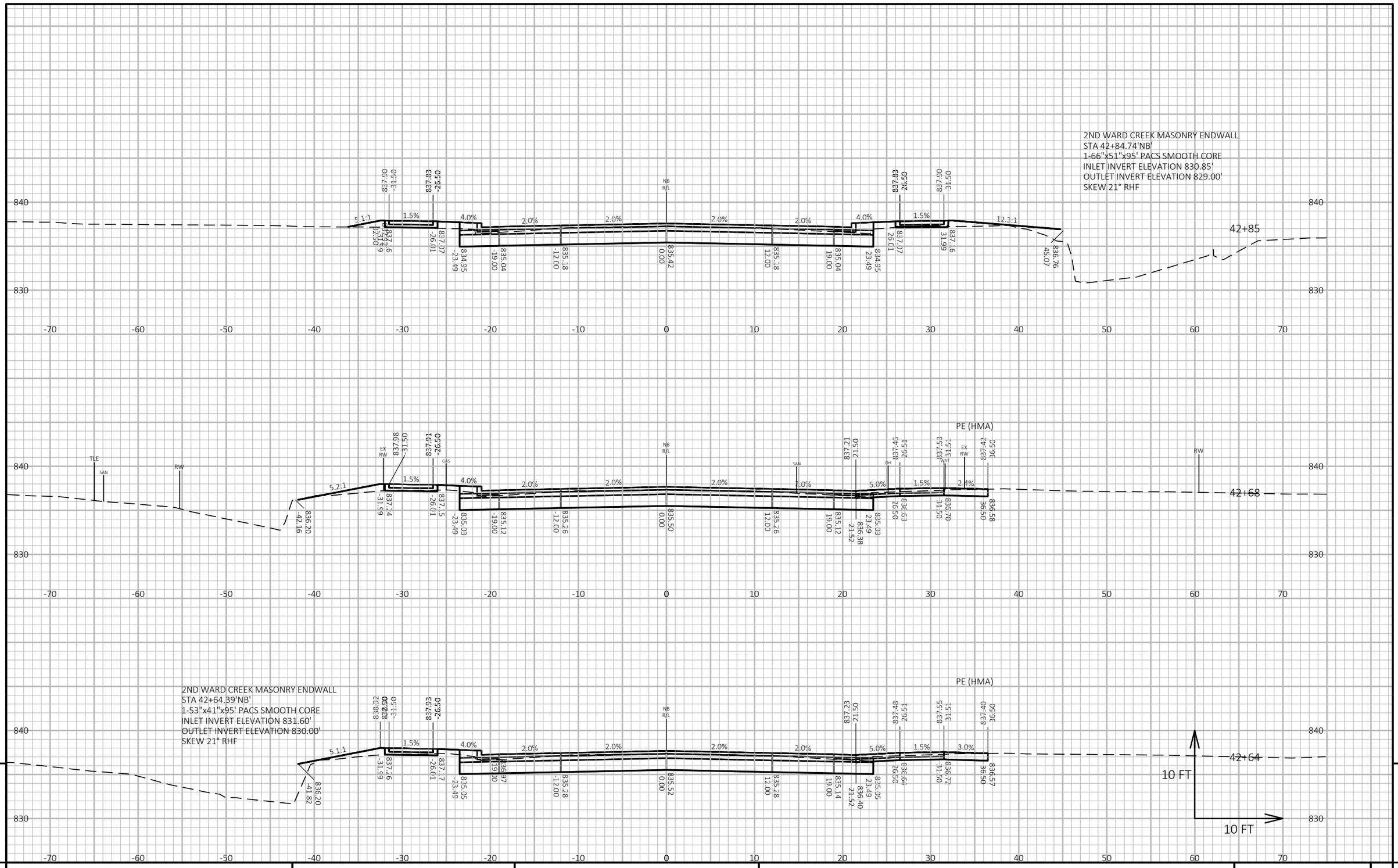
PLOT DATE : 3/4/2020 11:46 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 370	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(95)

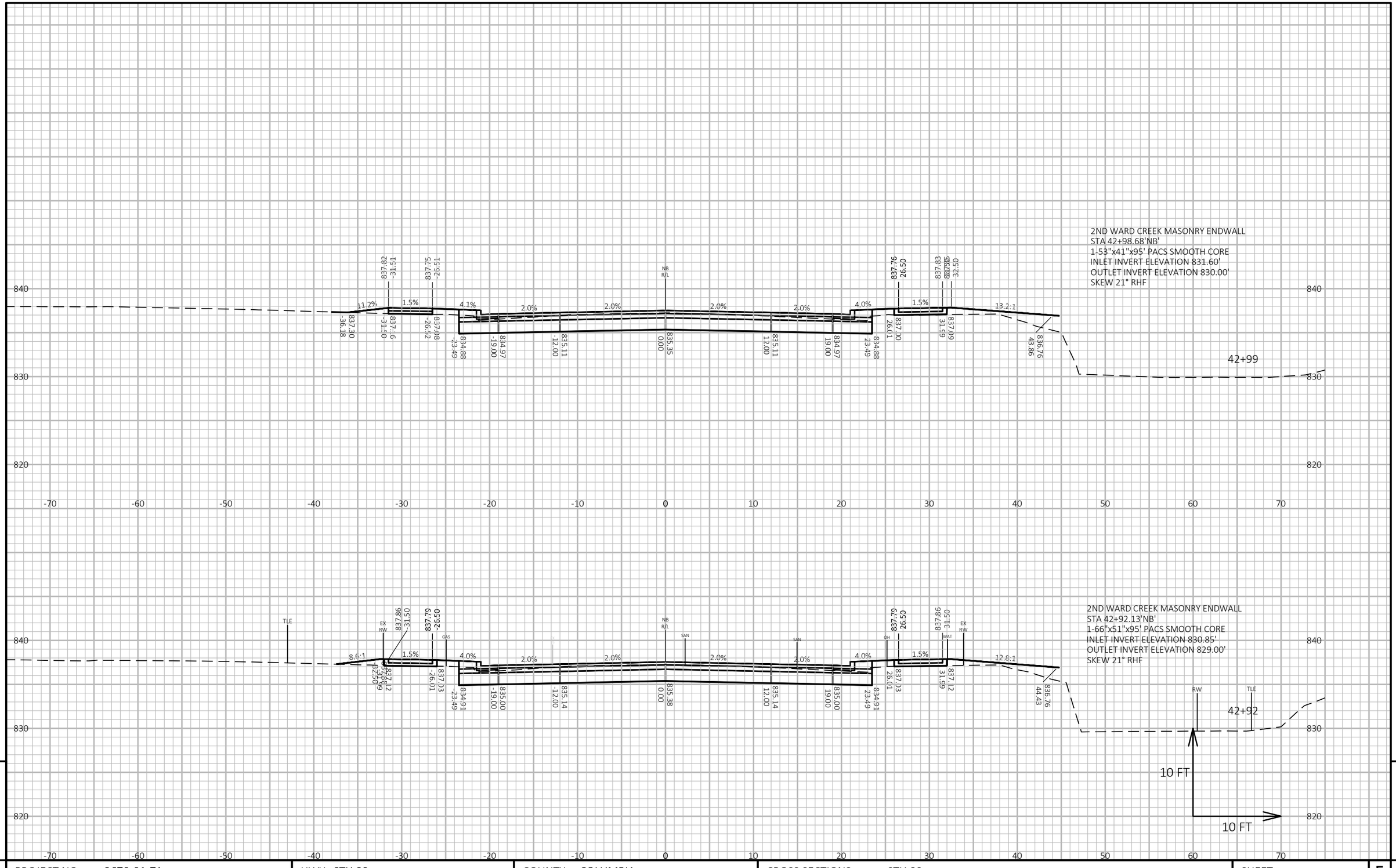
PLOT DATE : 3/4/2020 11:46 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 371	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(96)

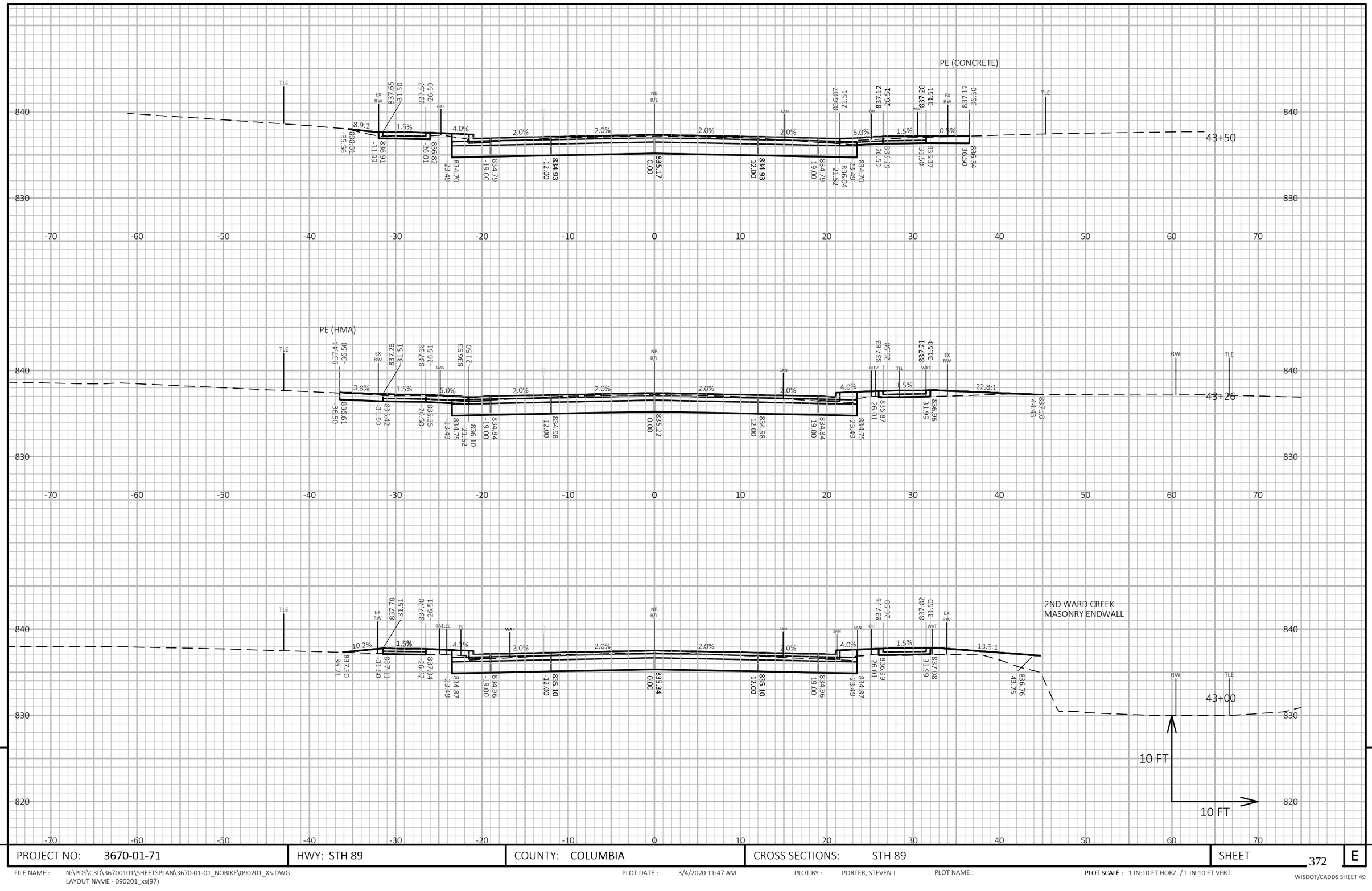
PLOT DATE : 3/4/2020 11:46 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 372	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(97)

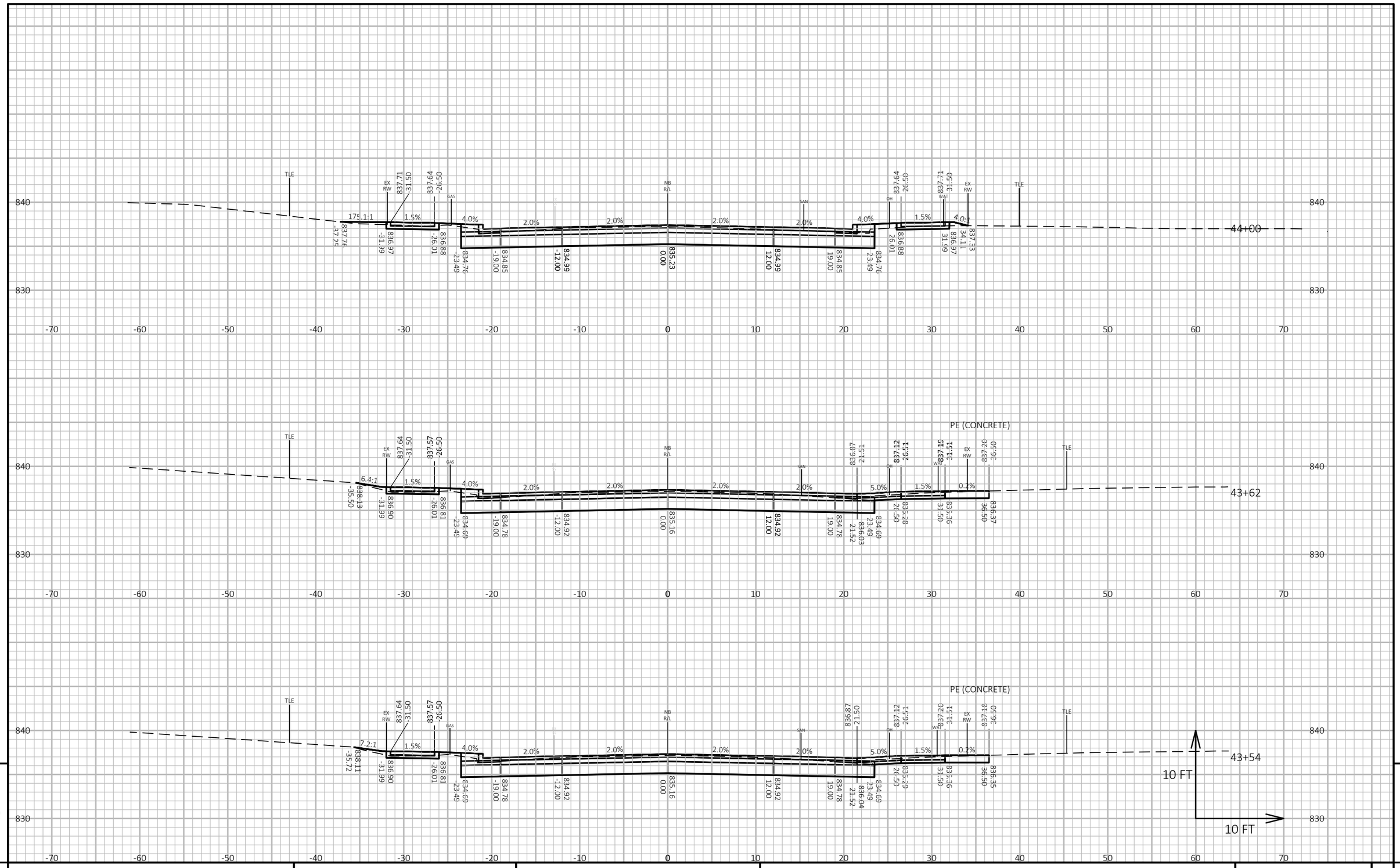
PLOT DATE : 3/4/2020 11:47 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 373	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(98)

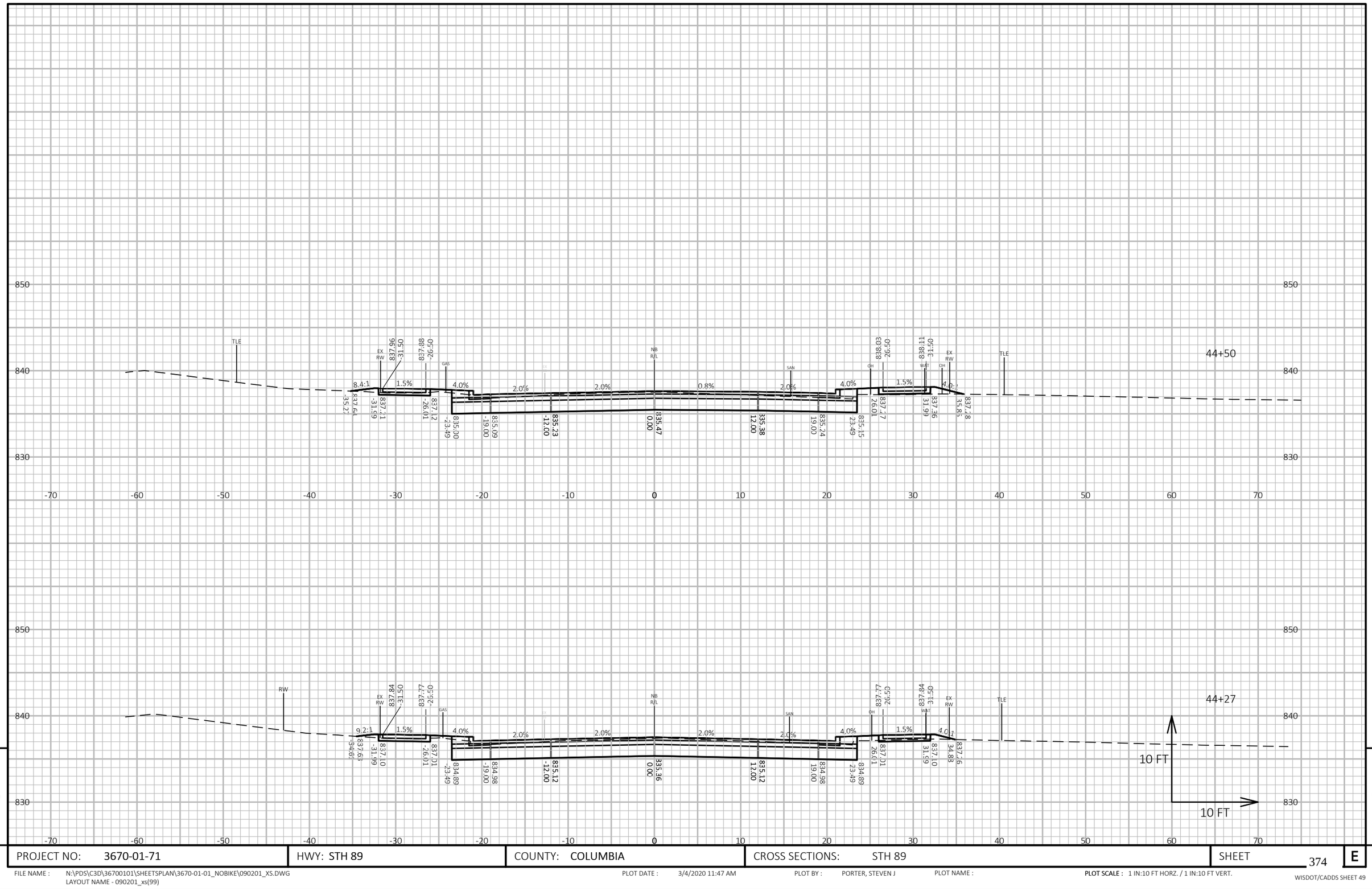
PLOT DATE : 3/4/2020 11:47 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 374	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(99)

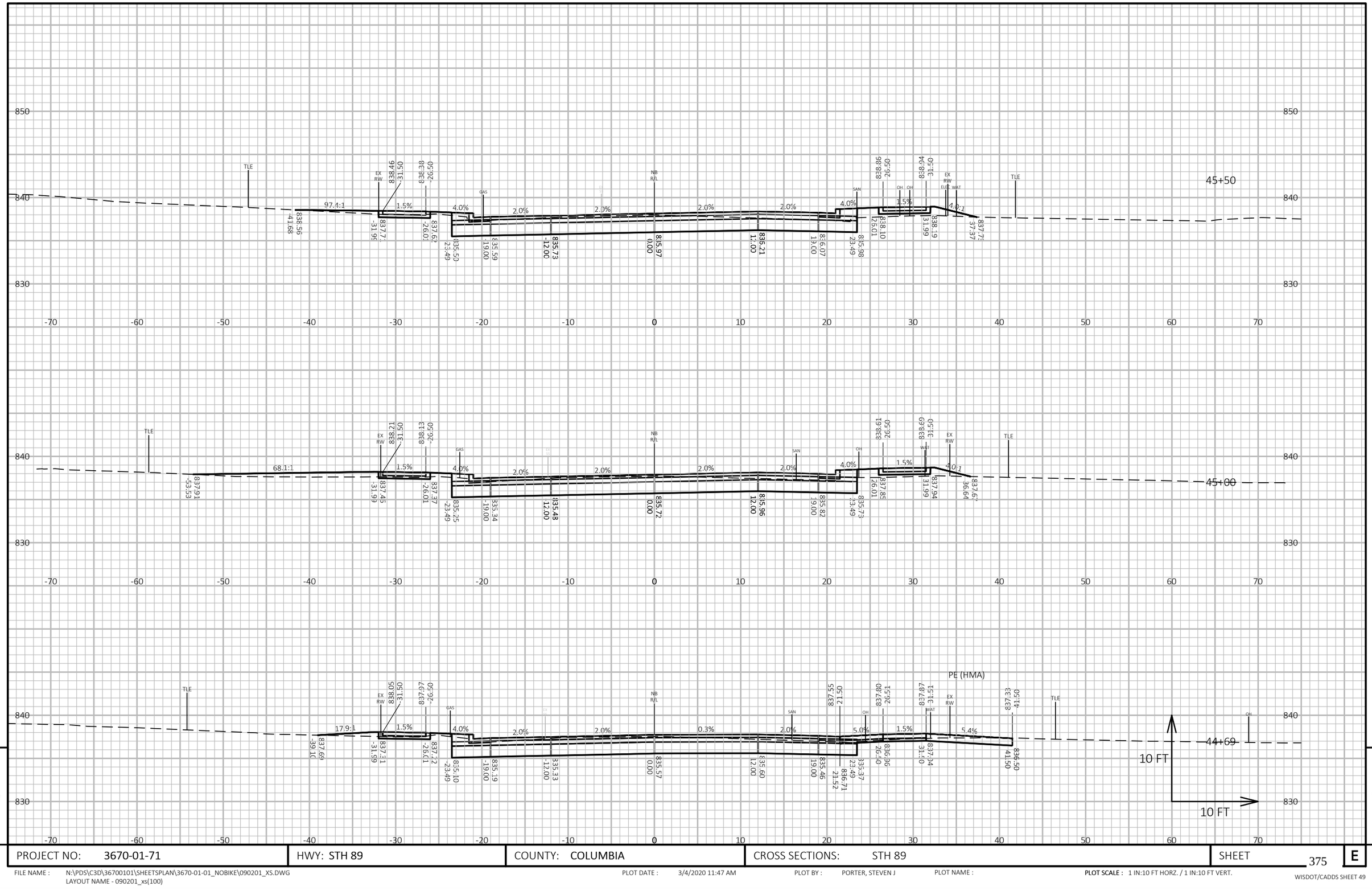
PLOT DATE : 3/4/2020 11:47 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 375 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(100)

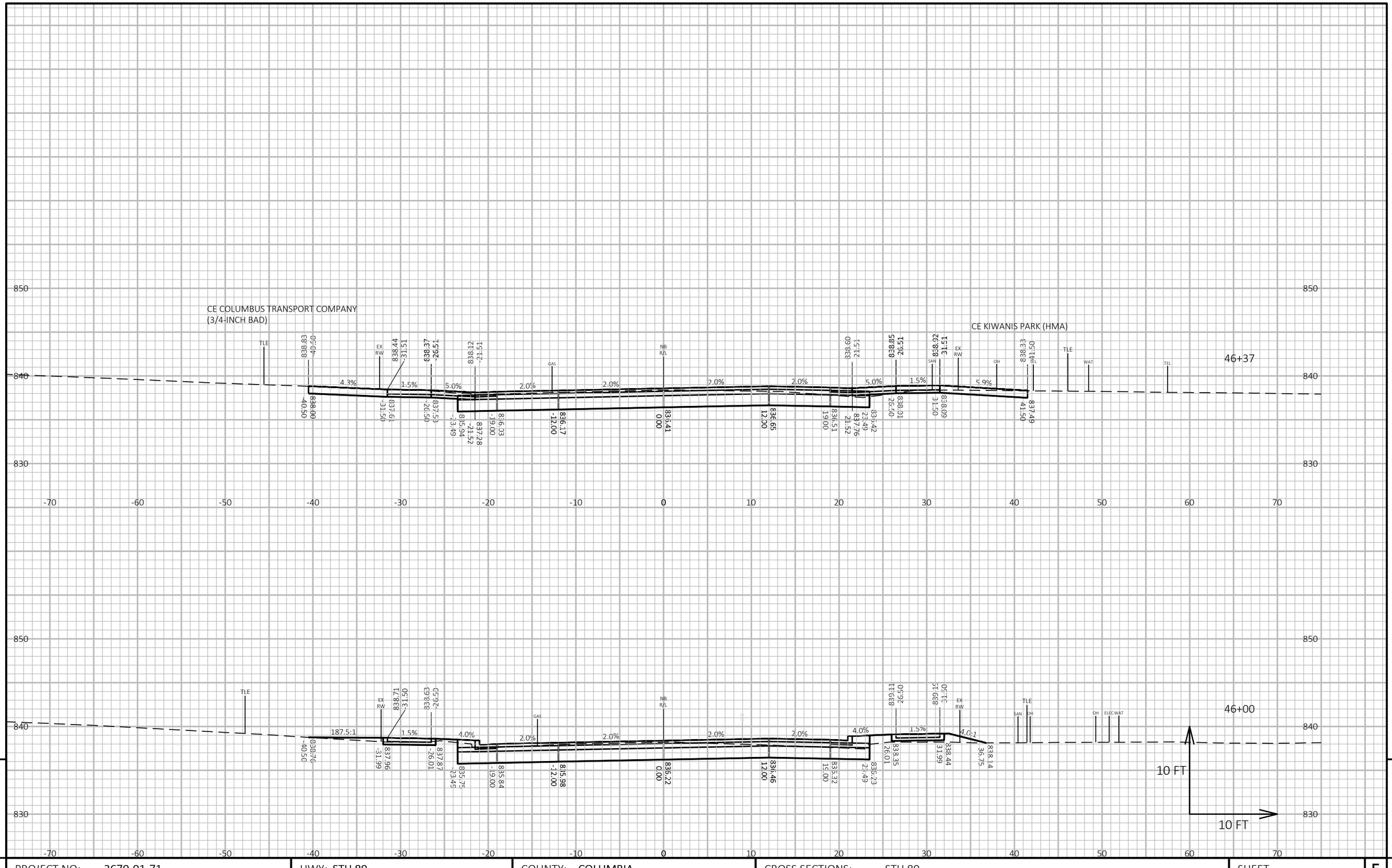
PLOT DATE : 3/4/2020 11:47 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 376	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(101)

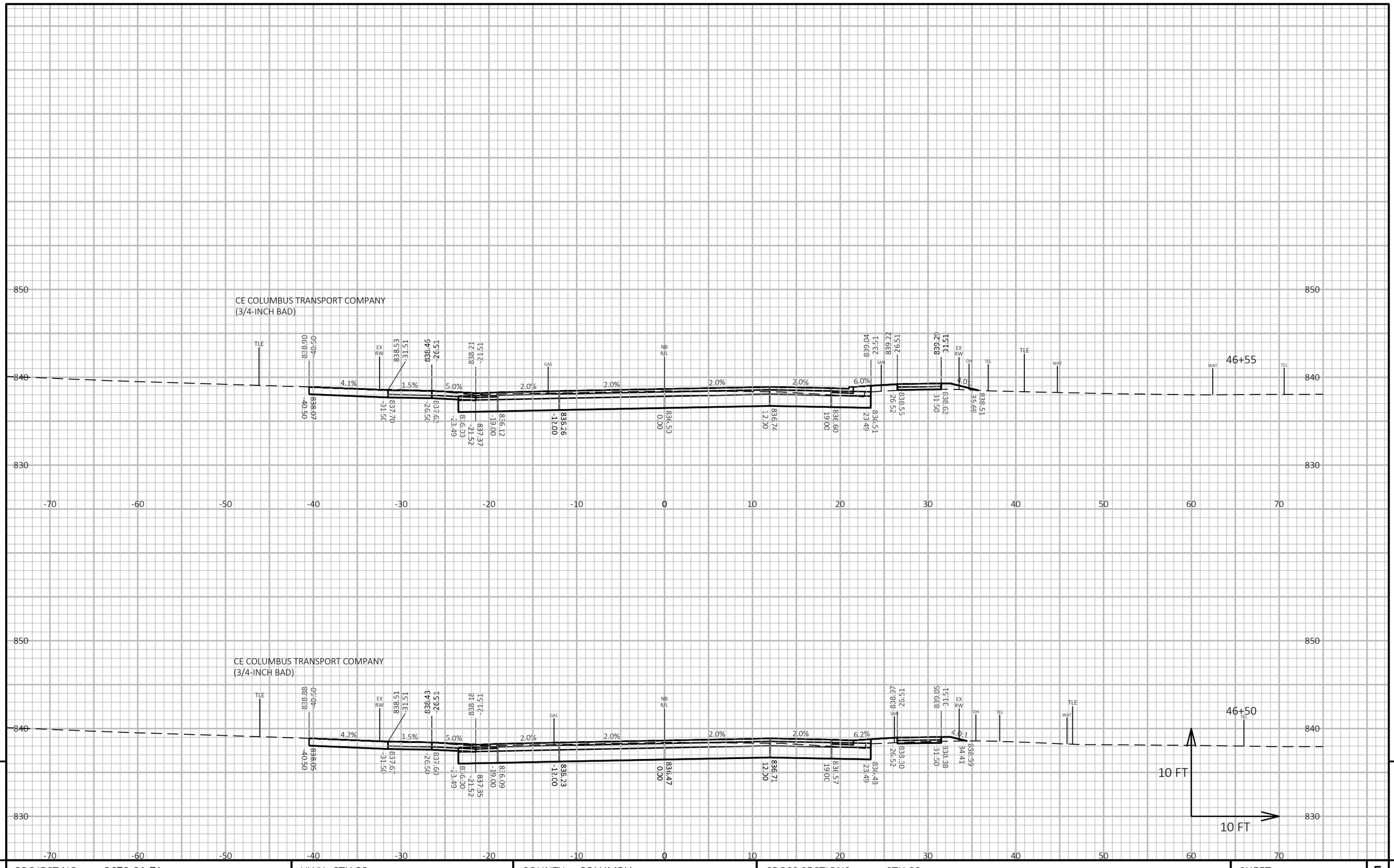
PLOT DATE : 3/4/2020 11:47 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 377	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(102)

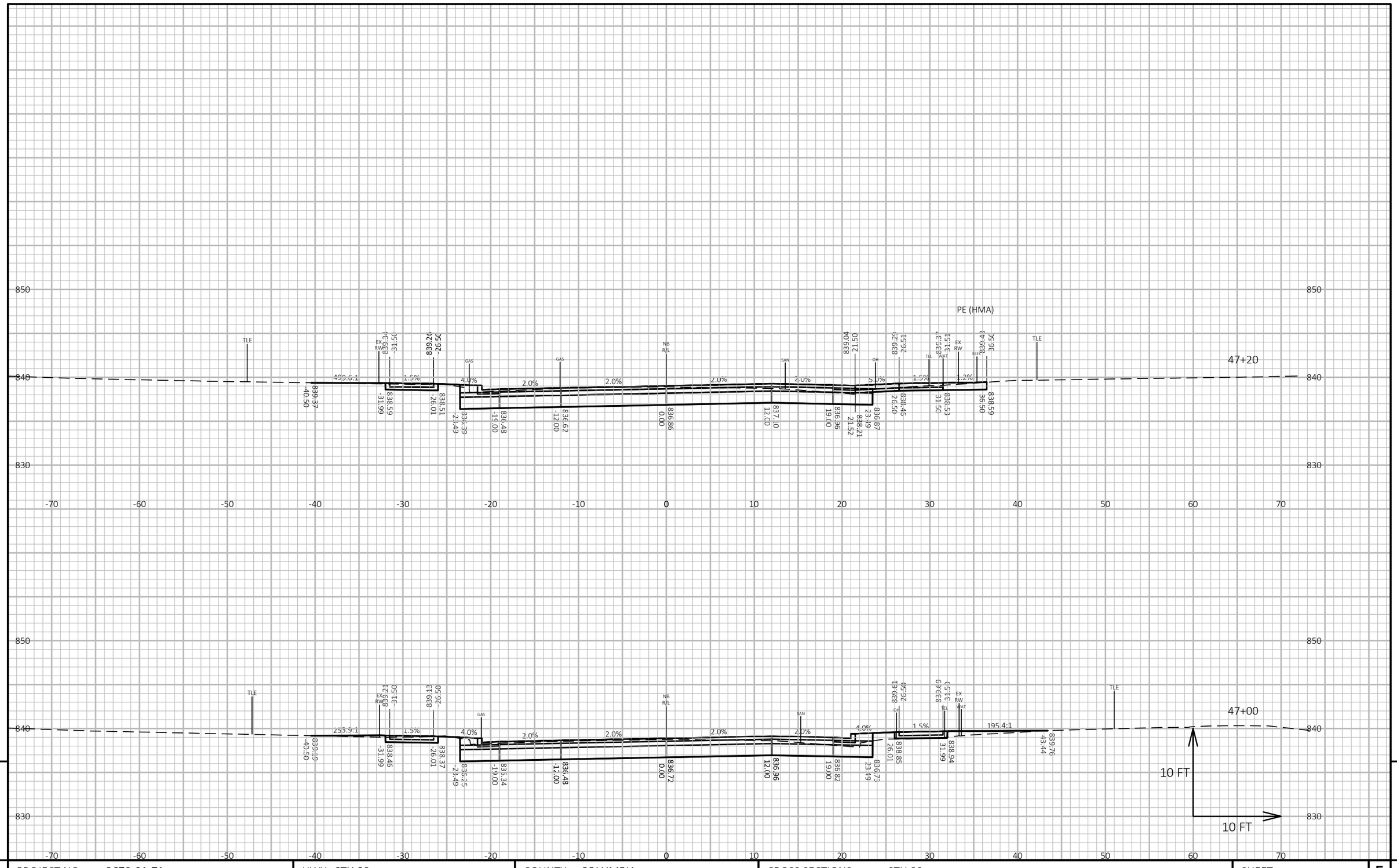
PLOT DATE : 3/4/2020 11:47 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 378	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(103)

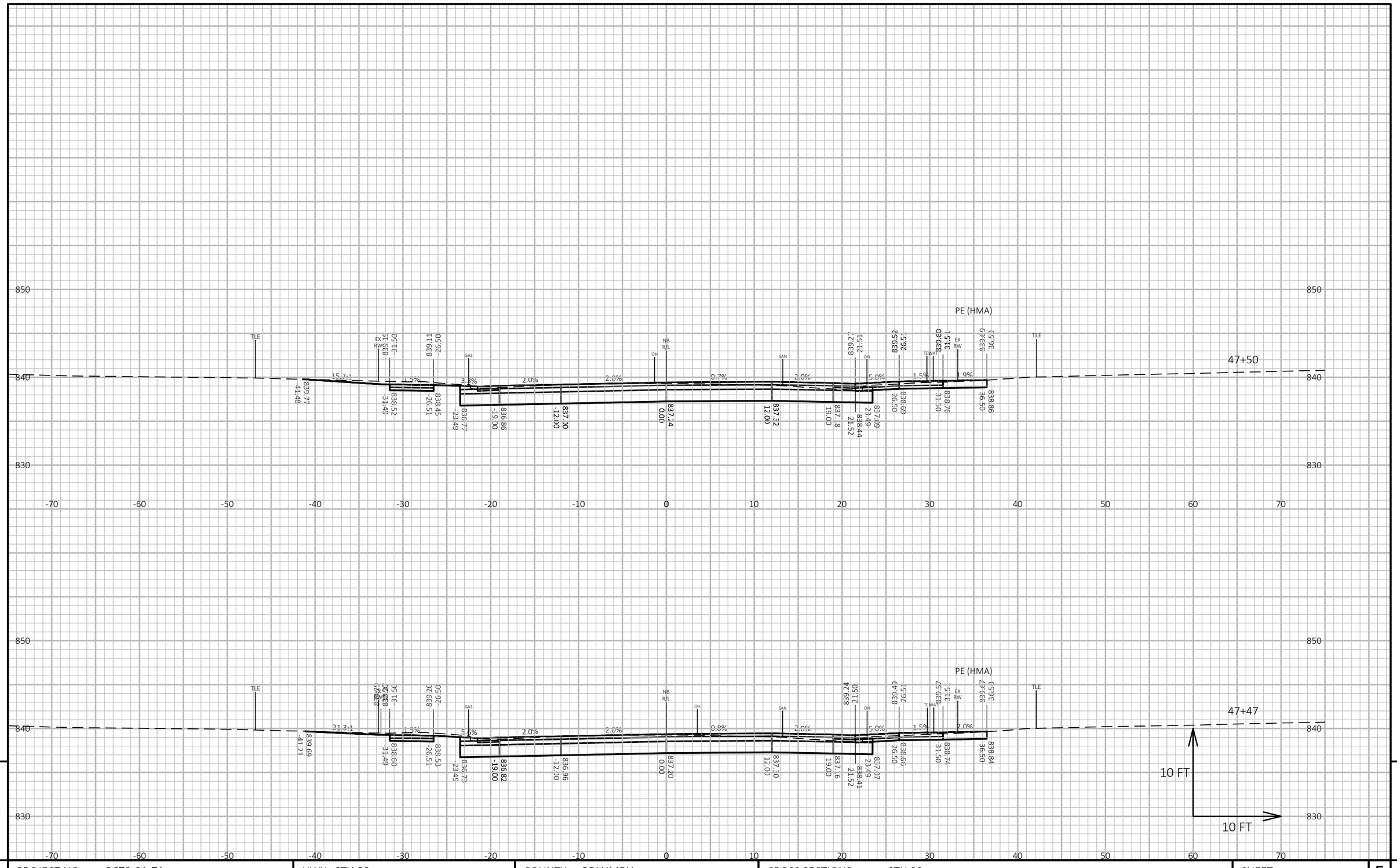
PLOT DATE : 3/4/2020 11:48 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 379	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(104)

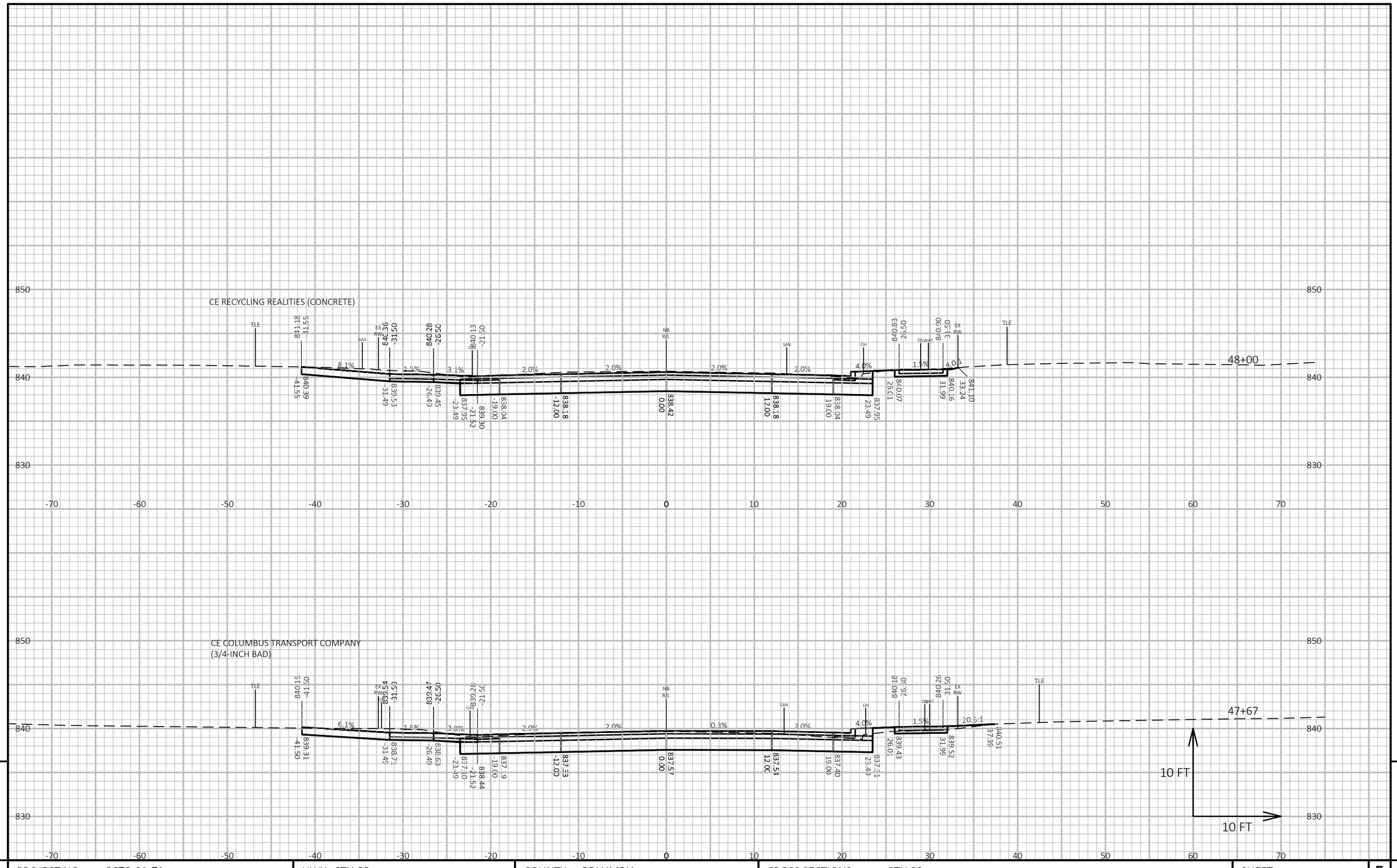
PLOT DATE : 3/4/2020 11:48 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 380	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(105)

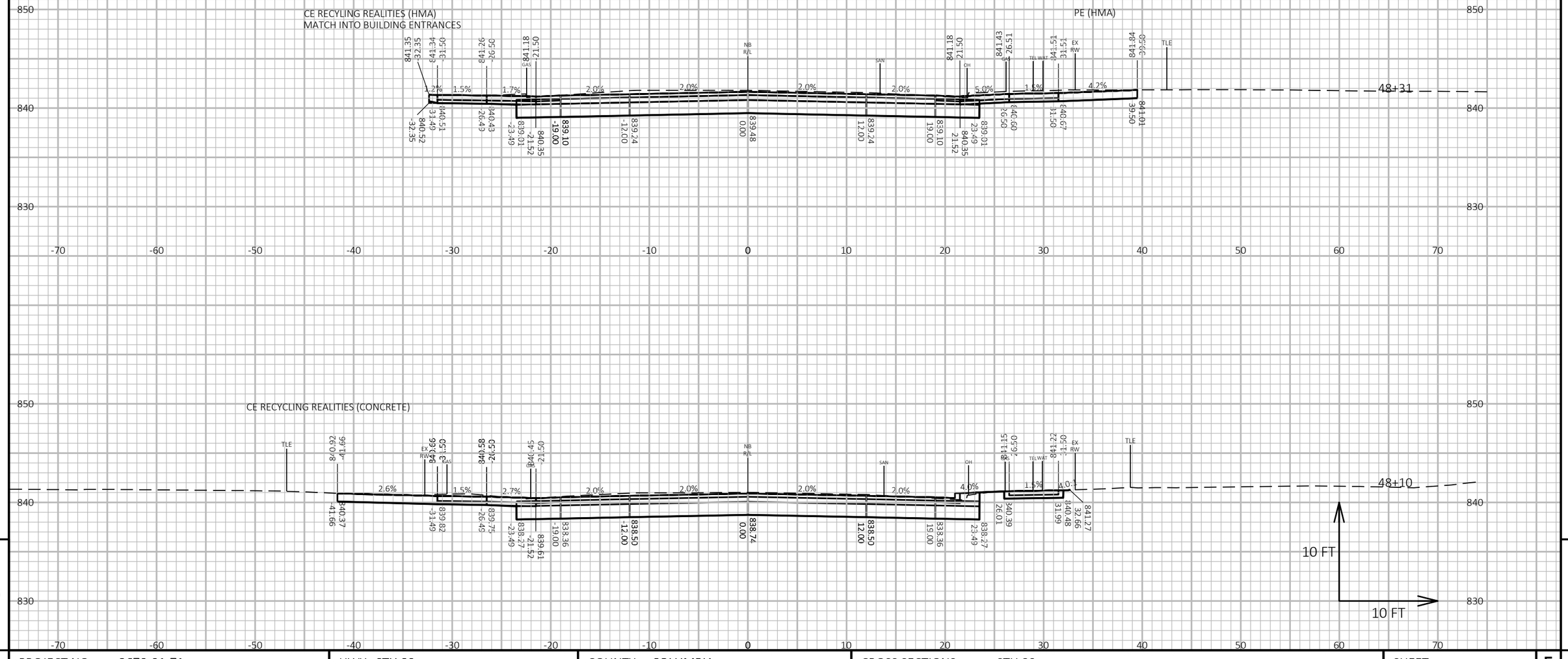
PLOT DATE : 3/4/2020 11:48 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 381	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(106)

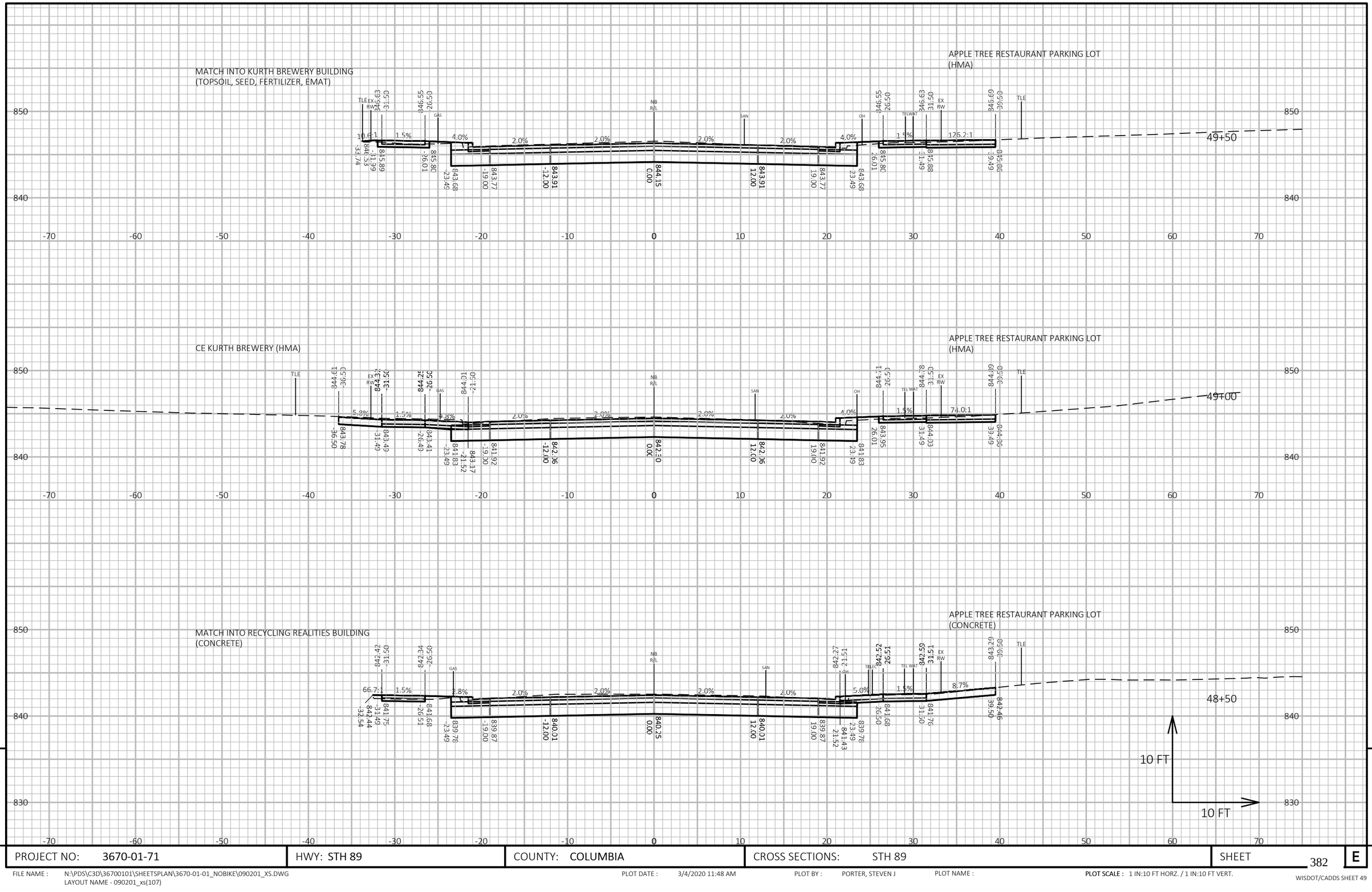
PLOT DATE : 3/4/2020 11:48 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: STH 89	SHEET 382	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090201_XS.DWG
LAYOUT NAME - 090201_xs(107)

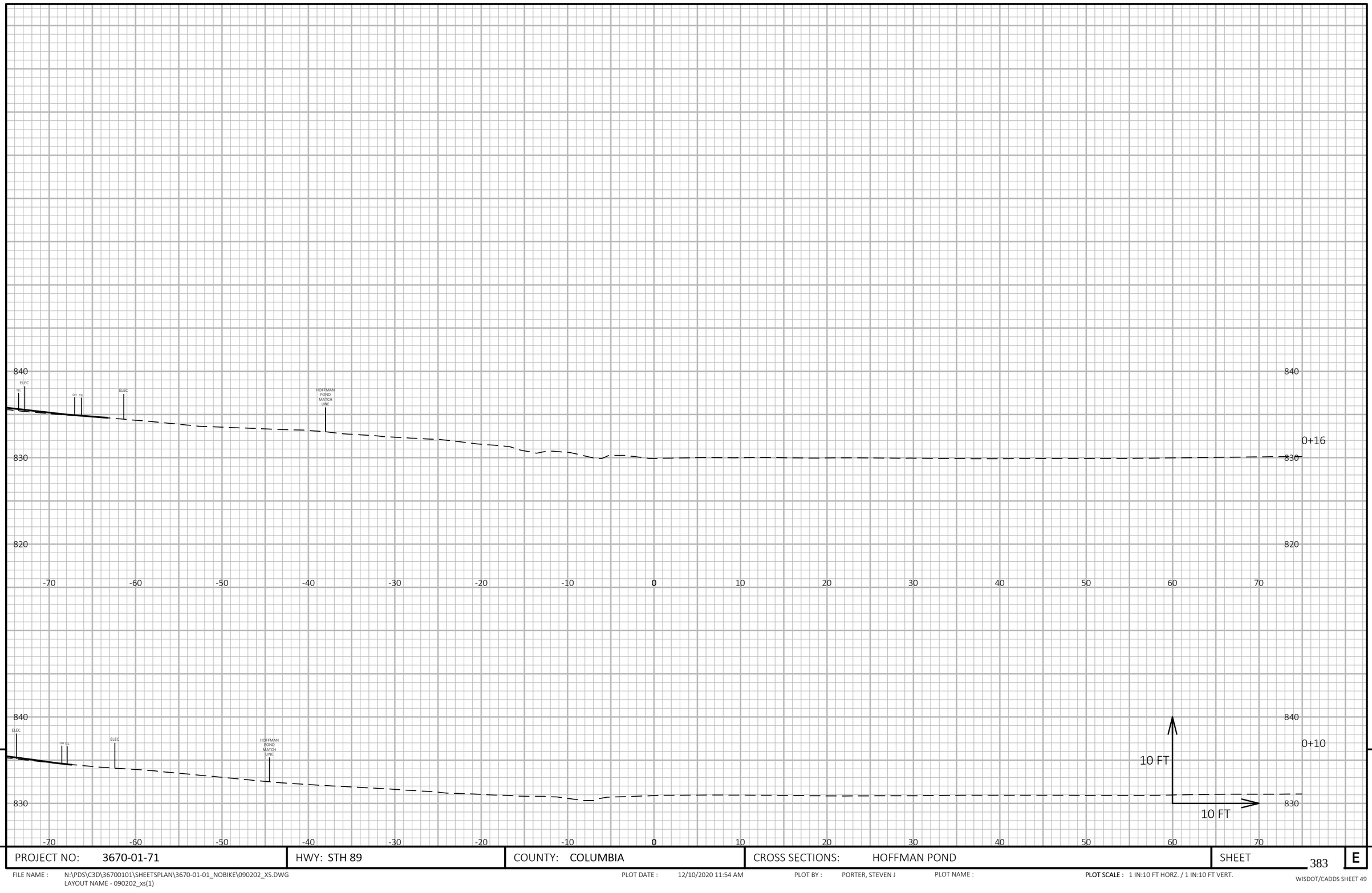
PLOT DATE : 3/4/2020 11:48 AM

PLOT BY : PORTER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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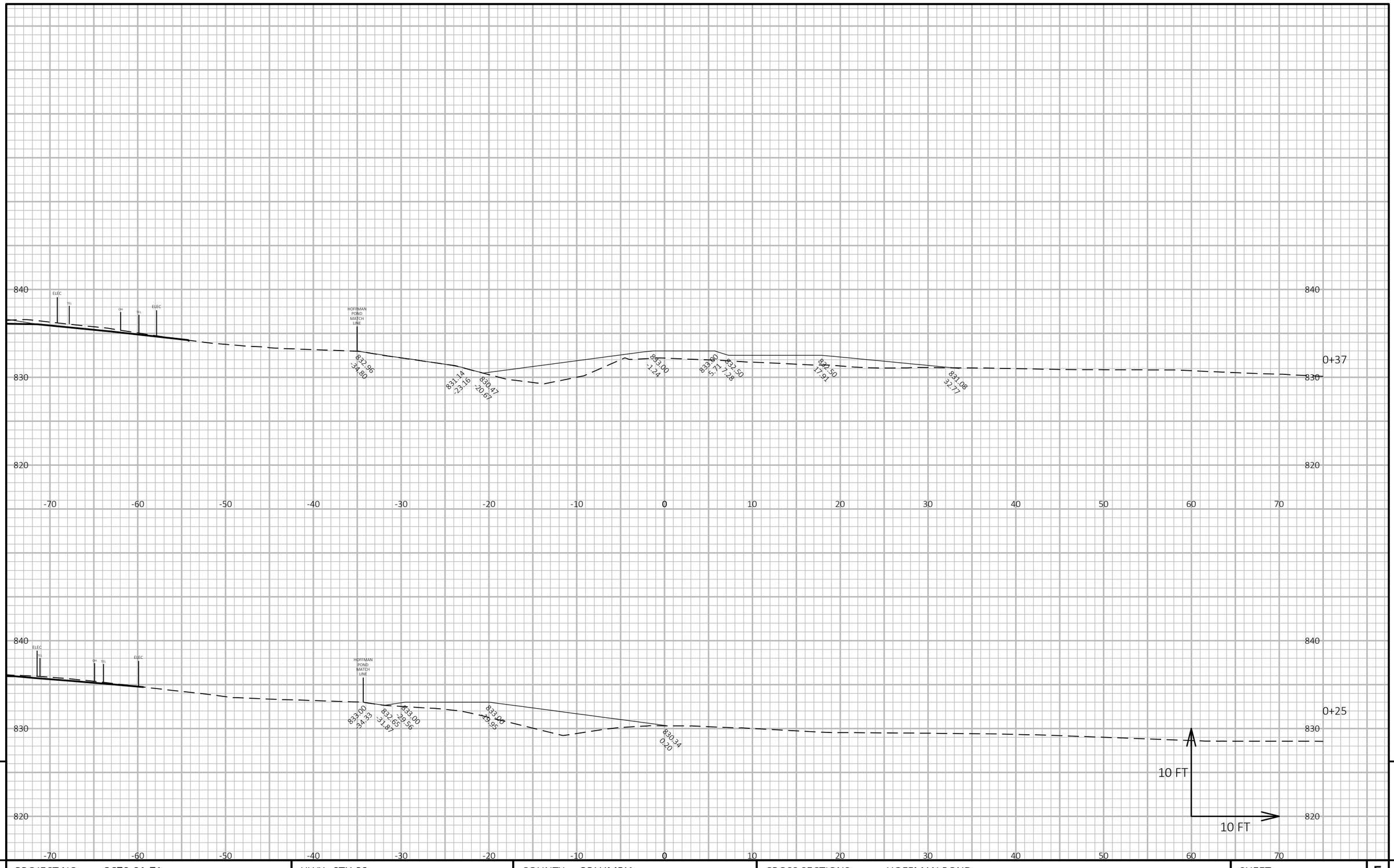
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: HOFFMAN POND	SHEET 383	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090202_XS.DWG
LAYOUT NAME - 090202_xs(1)

PLOT DATE : 12/10/2020 11:54 AM PLOT BY : PORTER, STEVEN J PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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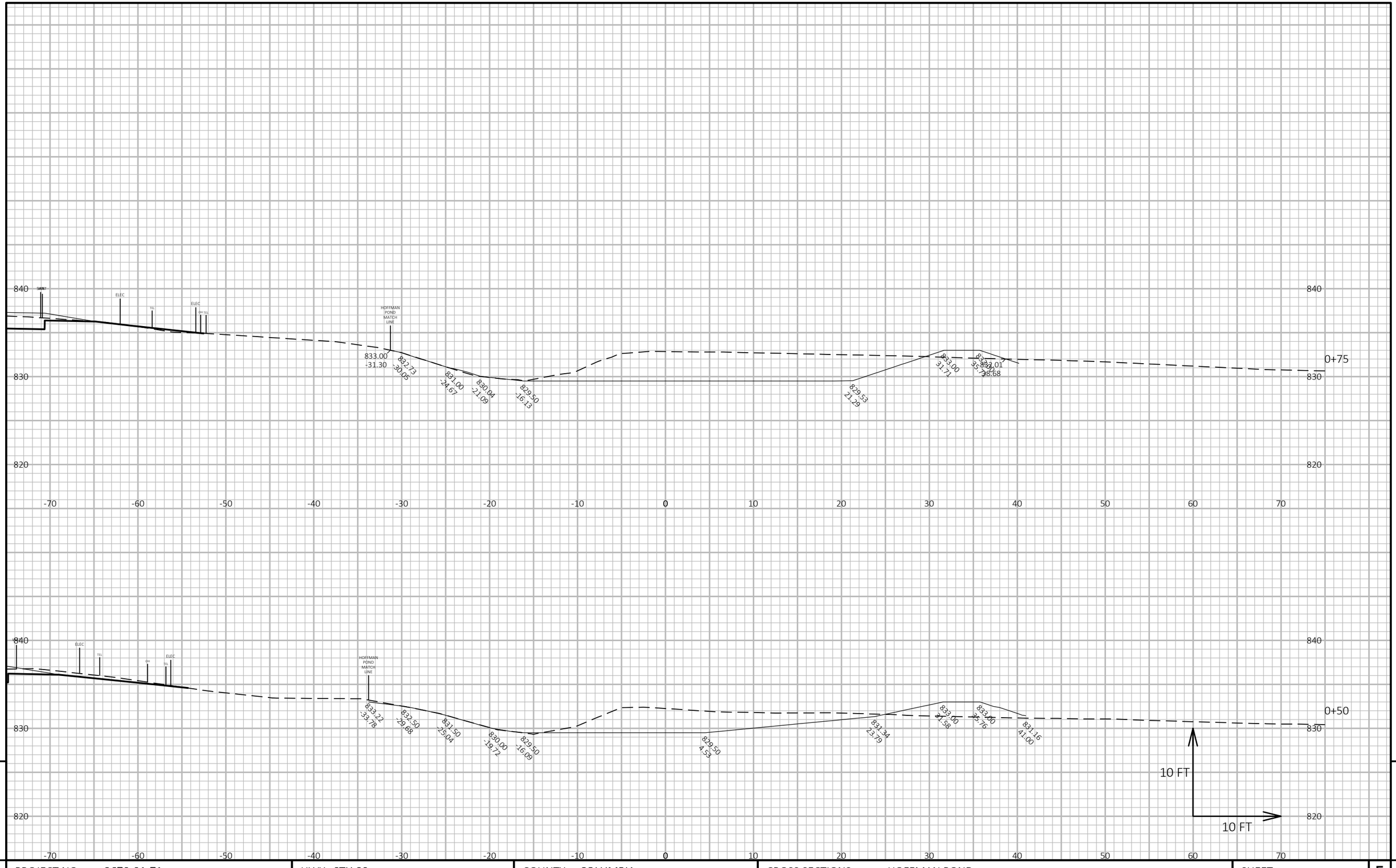
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: HOFFMAN POND	SHEET 384	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090202_XS.DWG
LAYOUT NAME - 090202_xs(2)

PLOT DATE : 12/10/2020 11:54 AM PLOT BY : PORTER, STEVEN J PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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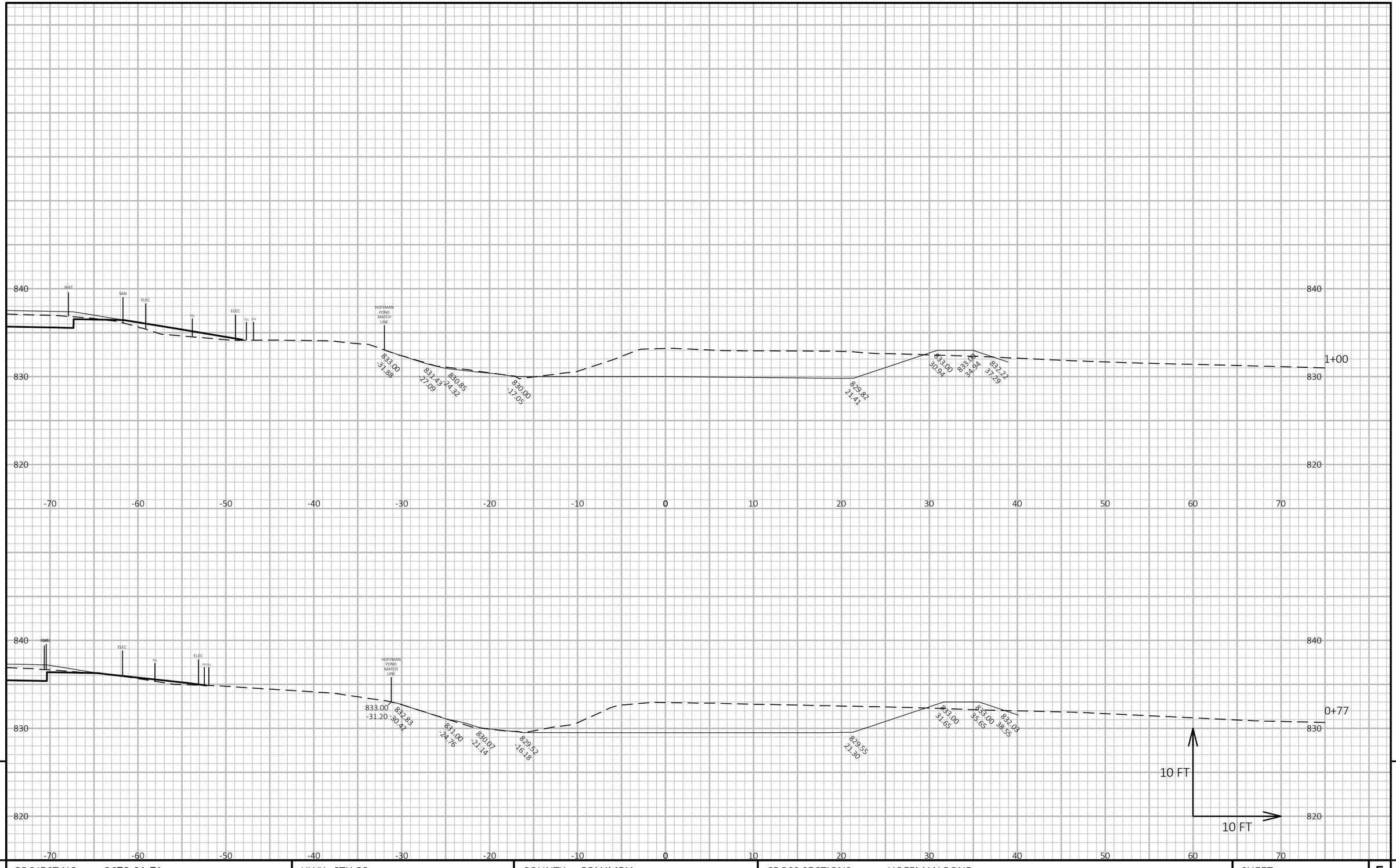
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: HOFFMAN POND	SHEET 385	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090202_XS.DWG
LAYOUT NAME - 090202_xs(3)

PLOT DATE : 12/10/2020 11:54 AM PLOT BY : PORTER, STEVEN J PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



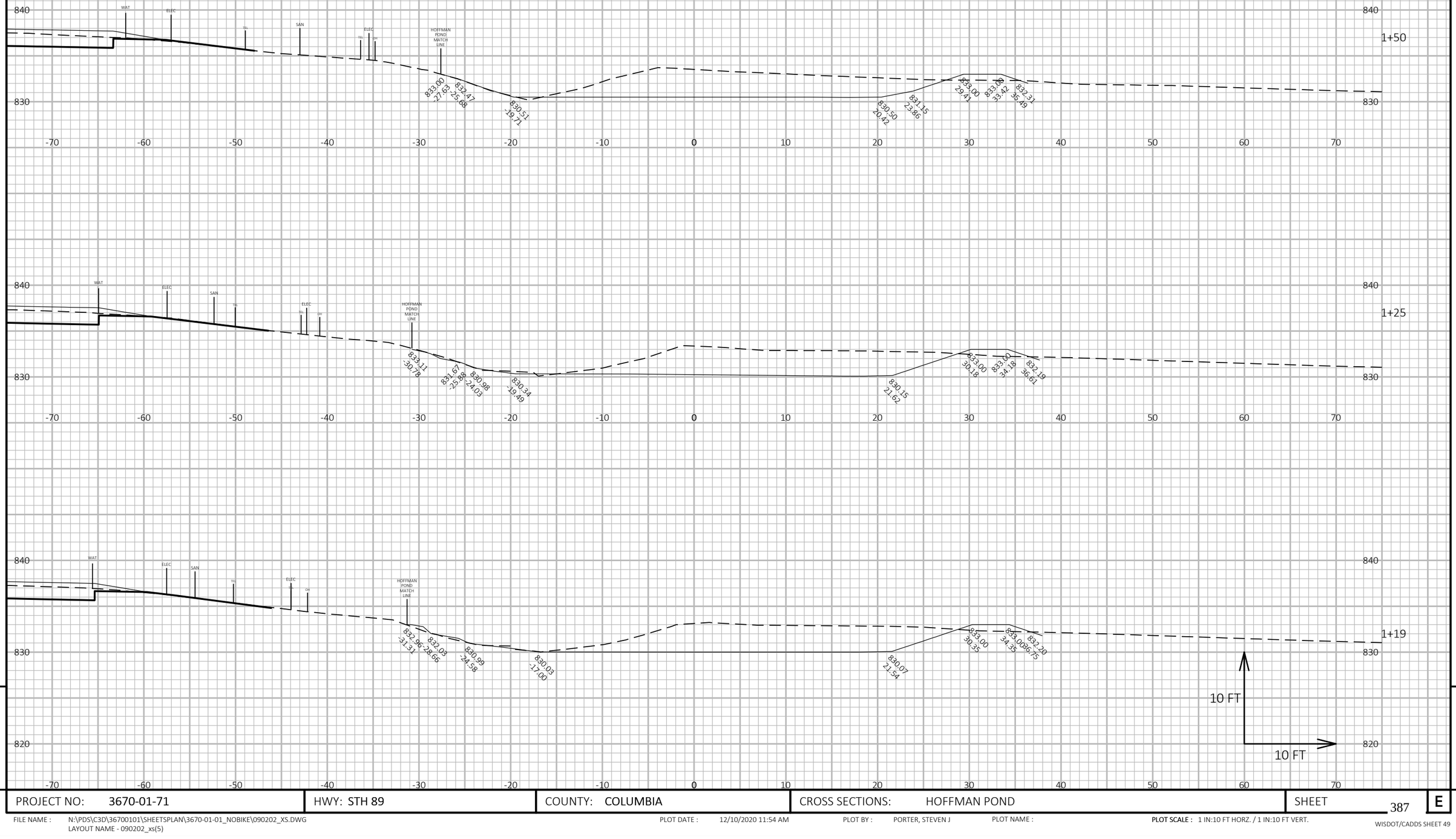
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: HOFFMAN POND	SHEET 386	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090202_XS.DWG
LAYOUT NAME - 090202_xs(4)

PLOT DATE : 12/10/2020 11:54 AM PLOT BY : PORTER, STEVEN J PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



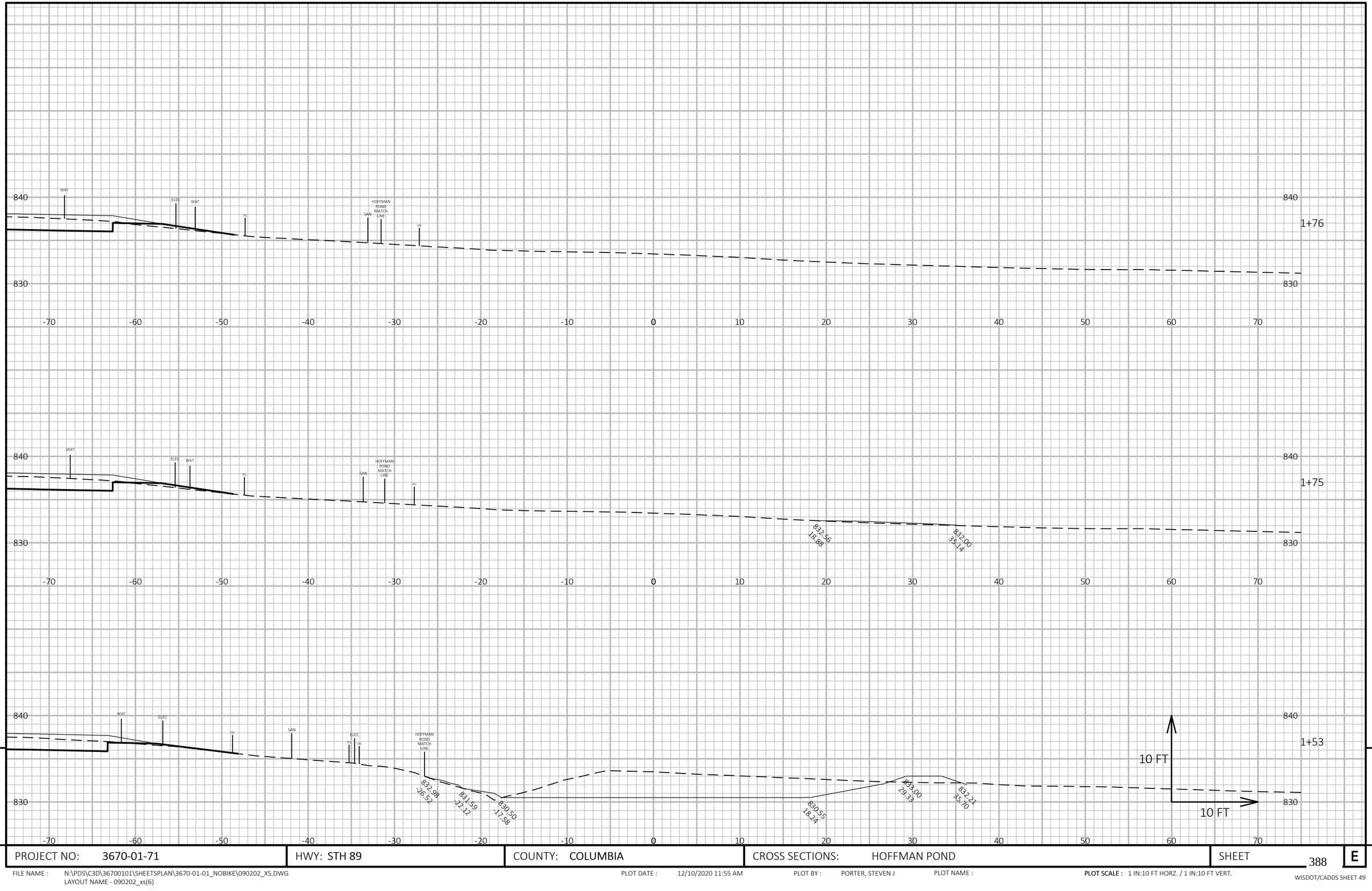
9 9

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: HOFFMAN POND	SHEET 387 E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090202_XS.DWG
LAYOUT NAME - 090202_xs(5)

PLOT DATE : 12/10/2020 11:54 AM PLOT BY : PORTER, STEVEN J PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



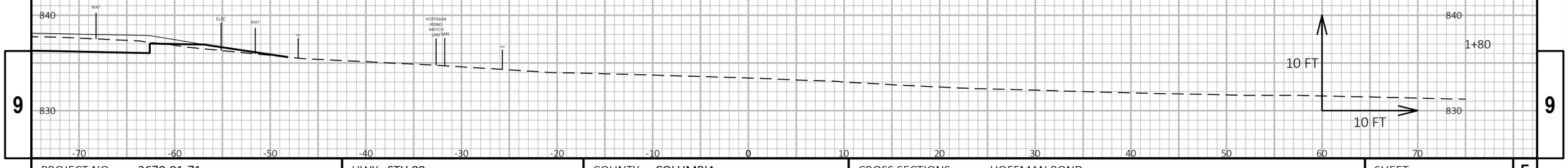
PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: HOFFMAN POND	SHEET 388	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090202_XS.DWG
LAYOUT NAME - 090202_xs(6)

PLOT DATE : 12/10/2020 11:55 AM PLOT BY : PORTER, STEVEN J PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 3670-01-71	HWY: STH 89	COUNTY: COLUMBIA	CROSS SECTIONS: HOFFMAN POND	SHEET 389	E

FILE NAME : N:\PDS\C3D\36700101\SHEETSPLAN\3670-01-01_NOBIKE\090202_XS.DWG
LAYOUT NAME - 090202_xs(7)

PLOT DATE : 12/10/2020 11:55 AM PLOT BY : PORTER, STEVEN J PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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