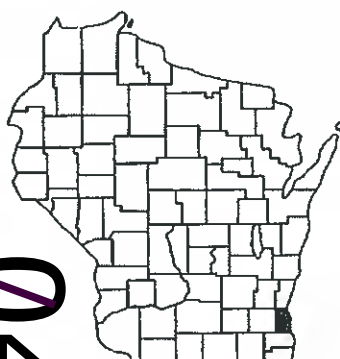


Order of Sheets

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	Gross Sections

TOTAL SHEETS = 58



04

DESIGN DESIGNATION

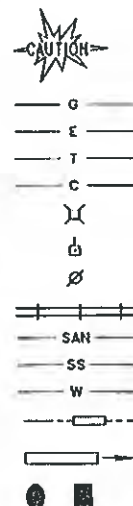
A.A.D.T. 2011 = 33,500
 A.A.D.T. =
 D.H.V. =
 D. =
 T. =
 DESIGN SPEED = 40 M.P.H.
 ESALS =

CONVENTIONAL SYMBOLS

COUNTY LINE
 CORPORATE LIMITS
 PROPERTY LINE
 LOT LINE
 LIMITED EASEMENT
 EXISTING RIGHT OF WAY
 PROPOSED OR NEW R/W LINE
 SURVEY LINE
 SLOPE INTERCEPT
 ORIGINAL GROUND
 MARSH OR ROCK PROFILE
 (To be noted as such)
 MARSH AREA
 WOODED OR SHRUB AREA

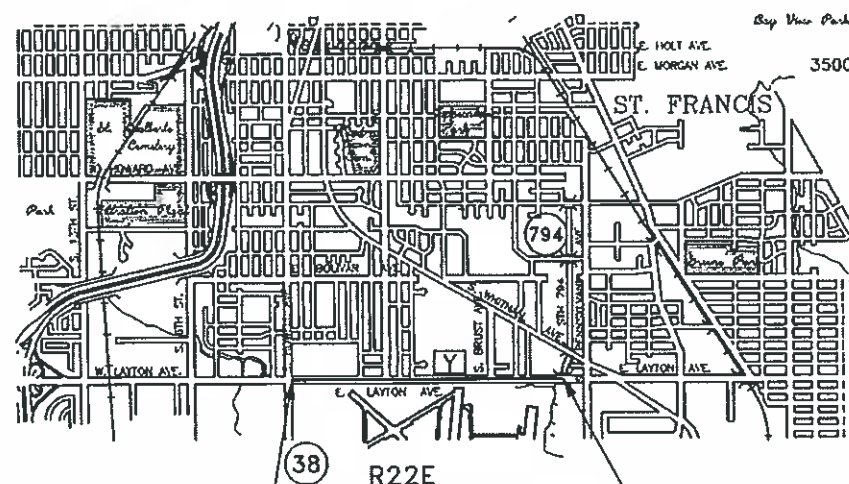


COMBUSTIBLE FLUIDS
 UNDERGROUND UTILITIES
 GAS
 ELECTRIC
 TELEPHONE OR TELEGRAPH
 COMMUNICATIONS LINE
 SERVICE PEDESTAL
 POWER POLE
 TELEPHONE POLE
 RAILROAD
 SANITARY SEWER
 STORM SEWER
 WATER
 EXISTING CULVERT
 PROPOSED CULVERT
 (Box or Pipe)
 CULVERT (Profile View)



STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 PLAN OF PROPOSED IMPROVEMENT
 NS FREEWAY, LAYTON AVE DETOUR
 HOWARD AVE TO VALLEY BRIDGE
 CTH Y
 MILWAUKEE COUNTY

STATE PROJECT NUMBER
 1228-25-60



BEGIN PROJECT 1228-25-60
 STA. 13+80.37
 N = 356 594.80
 E = 2 559 921.67

END PROJECT 1228-25-60
 STA. 81+63.30

Layout
 Scale 0 0.25 M. 0.5 M. 0.75 M. 1 M.
 One Mile
 TOTAL NET LENGTH OF CENTERLINE = 1.285 M.

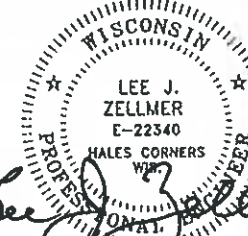
STATE PROJECT
 1228-25-60

FEDERAL PROJECT
 PROJECT
 CONTRACT

MILWAUKEE COUNTY
 DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION SERVICES



SURVEYOR: Milwaukee County



DESIGNER: 7/16/13

REVIEWED: 7/16/13 Joseph A. Wieg
 DATE: Project Manager

RECOMMENDED FOR APPROVAL: 7/16/2013
 DATE: Project Supervisor

APPROVED: 7/16/13
 DATE: Director Department of Transportation

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

PREPARED BY
 Surveyor Milwaukee County
 Designer Milwaukee County
 Project Manager ALLEN GILBERTSON
 Regional Examiner
 Regional Supervisor JAMES FORSETH

APPROVED FOR THE DEPARTMENT
 DATE: 7/16/13
 (Signature)

ELEVATIONS SHOWN ON THIS PLAN
 ARE BASED ON NGVD29.
 ALL COORDINATES SHOWN ON THIS PLAN
 ARE REFERENCED TO THE WISCONSIN STATE
 PLANE COORDINATE SYSTEM (WSPCS), NAD27
 SOUTH ZONE.

E

GENERAL NOTES

REMOVALS

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

UTILITIES

THE LOCATION OF EXISTING, ABANDONED AND PROPOSED UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA NOT SHOWN.

THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS WITH THE APPROPRIATE UTILITY.

EROSION CONTROL/LANDSCAPING

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATION AND DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

SIGNING/MARKING

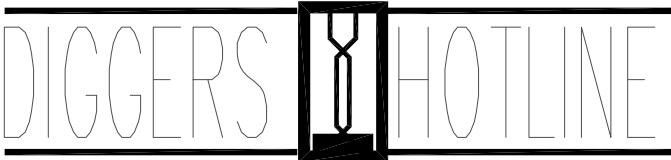
NO SIGNS SHALL BE REMOVED WITHOUT THE CONSENT OF THE ENGINEER. ALL SIGNS REMOVED SHALL BE PLACED AT A SITE SPECIFIED BY THE ENGINEER TO BE PICKED UP BY MILWAUKEE COUNTY. ANY CONFLICTING SIGN SHALL BE COVERED OR REMOVED.

MISCELLANEOUS

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.

THE CONTRACTOR SHALL STAMP ALL ENDS OF MONOLITHIC PORTLAND CEMENT CONCRETE SURFACES WITH A STAMP BEARING THEIR NAME AND THE YEAR OF CONSTRUCTION. ALL LETTERING SHALL BE 2-INCH. THE COST OF THIS WORK SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER PORTLAND CEMENT CONCRETE ITEMS AND NO ADDITIONAL PAYMENT WILL BE MADE.

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



Call 8 1 1
Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www. DiggersHotline.com
WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment
AGG	Aggregate
AH	Ahead
AADT	Annual Average Daily Traffic
ASPH	Asphaltic or Asphalt
BK	Back
BM	Bench Mark
CB	Catch Basin
CL or C/L	Center Line
CONC	Concrete
CTH	County Trunk Highway
CABC	Crushed Aggregate Base Course
C&G	Curb and Gutter
DHV	Design Hourly Volume
DD	Directional Distribution
DWY	Driveway
EL or ELEV	Elevation
ESALS	Equivalent Single Axle Loads
EBS	Excavation Below Subgrade
CWT	Hundredweight
INL	Inlet
INV	Invert
MH	Manhole
MIS	Metropolitan Interceptor Sewer
PAVT	Pavement
PT	Point
PCC	Portland Cement Concrete
RL or R/L	Reference Line
REQD	Required
R/W	Right-of-Way
SEC	Section
SDD	Standard Detail Drawing
STH	State Trunk Highway
STA	Station
SSPRC	Storm Sewer Pipe Reinforced Concrete
S/W	Sidewalk
TLE	Temporary Limited Easement
V	Velocityor Design Speed
VERT	Vertical
VC	Vertical Curve
VPC	Vertical Point of Curve
VPI	Vertical Point of Intersection
VPT	Vertical Point of Tangency

REVISION DATE: 5/23/2013

MILWAUKEE COUNTY DEPT. OF TRANSPORTATION
(MCDOT)- MAINTENANCE DIVISION
10190 WEST WATERTOWN PLANK ROAD
WAUWATOSA, WI 53226
ATTN: CHARLES SMELTZER (414) 257-6580

MCDOT
TRANSPORTATION DIVISION- TRAFFIC ENGINEERING
2711 WEST WELLS STREET, SUITE 300
MILWAUKEE, WI 53208
ATTN: DANIEL MURPHY (414) 278-4842

MCDOT
TRANSPORTATION DIVISION- HIGHWAY ENGINEERING
2711 WEST WELLS STREET, SUITE 300
MILWAUKEE, WI 53208
ATTN: JOSEPH WIECZOREK (414) 278-4893

MCDOT
TRANSPORTATION DIVISION- CONSTRUCTION ENGINEERING
2711 WEST WELLS STREET, SUITE 300
MILWAUKEE, WI 53208
ATTN: AZIZ ALEIDW (414) 278-4911

MCDOT
MAINTENANCE DIVISION-TRAFFIC SIGNAL ELECTRICAL SHOP
10190 W. WATERTOWN PLANK ROAD
WAUWATOSA, WI 53226
ATTN: STANLEY JACKSON (414) 257-6593

GENERAL MITCHELL INTERNATIONAL AIRPORT
OFFICE OF THE AIRPORT ENGINEER
5300 SOUTH HOWELL AVENUE
MILWAUKEE, WI 53207
ATTN: JIM ZSEBE (414) 747-5394

CITY OF MILWAUKEE
MUNICIPAL BUILDING ROOM 780
841 NORTH BROADWAY
MILWAUKEE, WI 53202
ATTN: MR. JEFFREY POLENSKE (414) 286-2400

MILWAUKEE WATER WORKS
ATTN: MR. DAVE GOLDAPP (414) 286-6301

STREET LIGHTING
ATTN: MR. TOM MANSKE (414) 286-3481

TIME WARNER CABLE
1320 NORTH MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
ATTN: MR. STEVE CRAMER (414) 277-4045
MR. STEVEN VEEDER (414) 908-4766
(FIELD ENGINEER)

WE ENERGIES (GAS OPERATIONS)
333 WEST EVERETT STREET- A279
MILWAUKEE, WI 53203
ATTN: MR. DAN SANDE (414) 221-4578

WE ENERGIES (ELECTRIC)
333 WEST EVERETT STREET- A279
MILWAUKEE, WI 53203
ATTN: MR. DAN SANDE (414) 221-4578

WE ENERGIES (PAVING COORDINATOR)
500 S. 116TH ST. - WADC
WEST ALLIS, WI 53214

AT&T WISCONSIN
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
ATTN: MR. KEVIN ANDERSON (262) 896-7440

UTILITIES KNOWN TO EXIST WITHIN PROJECT

OWNER	UTILITY TYPE
MILWAUKEE COUNTY DOT	TRAFFIC SIGNALS AND APPURTENANCES
CITY OF MILWAUKEE	SANITARY SEWERS AND MANHOLES WATER MAINS, VALVES, LATERALS AND HYDRANTS
WE ENERGIES (GAS)	GAS MAINS, VALVES AND LATERALS
WE ENERGIES (ELECTRIC)	OVERHEAD CABLES AND BURIED DUCTS
TIME WARNER CABLE COMMUNICATIONS	OVERHEAD CABLES ON WE ENERGIES POLES
AT&T (FORMERLY SBC)	OVERHEAD CABLES ON WE ENERGIES POLES FIBER OPTICS AND BURIED DUCTS
WISCONSIN DOT	TRAFFIC SIGNAL INTERCONNECT
MILWAUKEE METROPOLITAN SEWERAGE DISTRICT	SANITARY SEWER
QWEST COMMUNICATIONS	BURIED CABLE
MIDWEST FIBER NETWORKS	BURIED FIBER OPTICS
LEVEL THREE COMMUNICATIONS	BURIED FIBER OPTICS
GENERAL MITCHELL INTERNATIONAL AIRPORT	BURIED POWER AND CONTROL CABLES
SPRINT	BURIED FIBER OPTICS

WISCONSIN DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - SIGNALS
2000 PEWAUKEE ROAD, SUITE A
WAUKESHA, WI 53187-0798
ATTN: MS. ANNE RESHADI-NEZHAD (262) 521-5353

FEDERAL AVIATION ADMINISTRATION
FAA AIRWAY FACILITIES
GMIA AIR TRAFFIC CONTROL TOWER
5330 SOUTH HOWELL AVENUE
MILWAUKEE, WI 53207
ATTN: MR. DAVID KRAUS (414) 489-2200

MILWAUKEE COUNTY TRANSIT SYSTEM
1942 N. 17TH STREET
MILWAUKEE, WI 53205
ATTN: DAVE ZIAREK (414) 343-1764

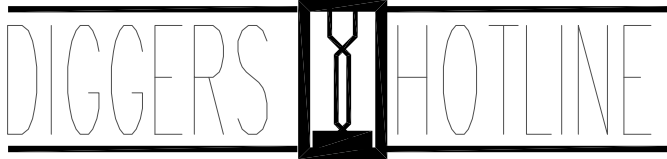
CITY OF ST. FRANCIS
4235 S. NICHOLSON AVENUE
ST. FRANCIS , WI 53217
ATTN: MS. MELINDA DEJEWSKI (414) 481-2300

WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR)
2300 NORTH DR. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
ATTN: KRISTINA BETZOLD (414) 263-8517

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
260 WEST SEEBOTH STREET
MILWAUKEE, WI 53204-1446
ATTN: DEBRA JENSEN (414) 225-2241

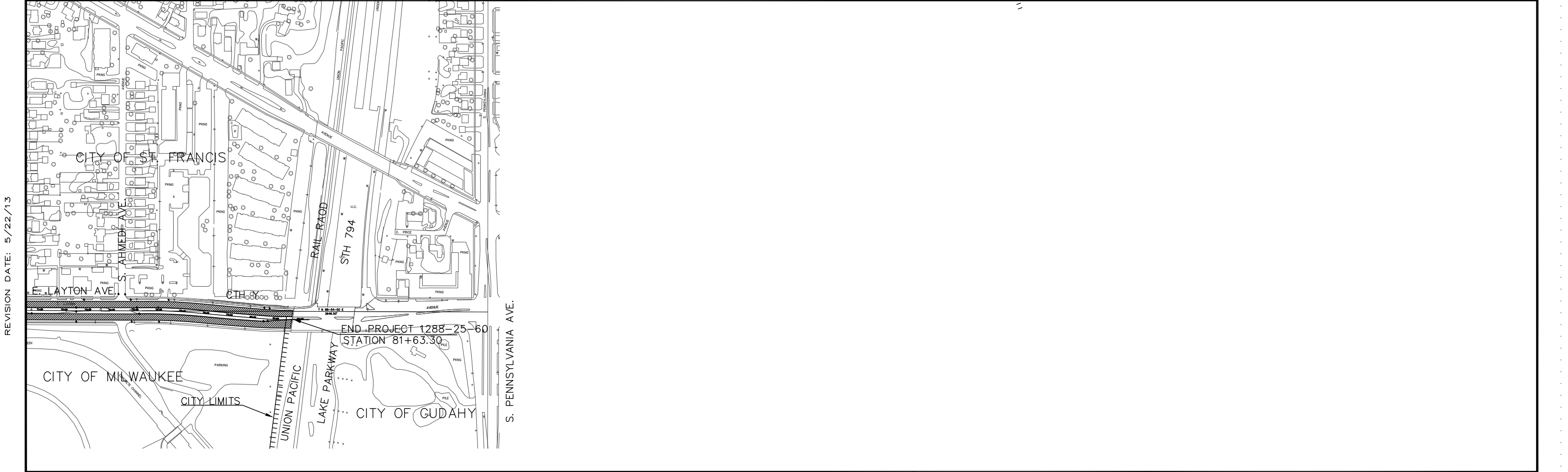
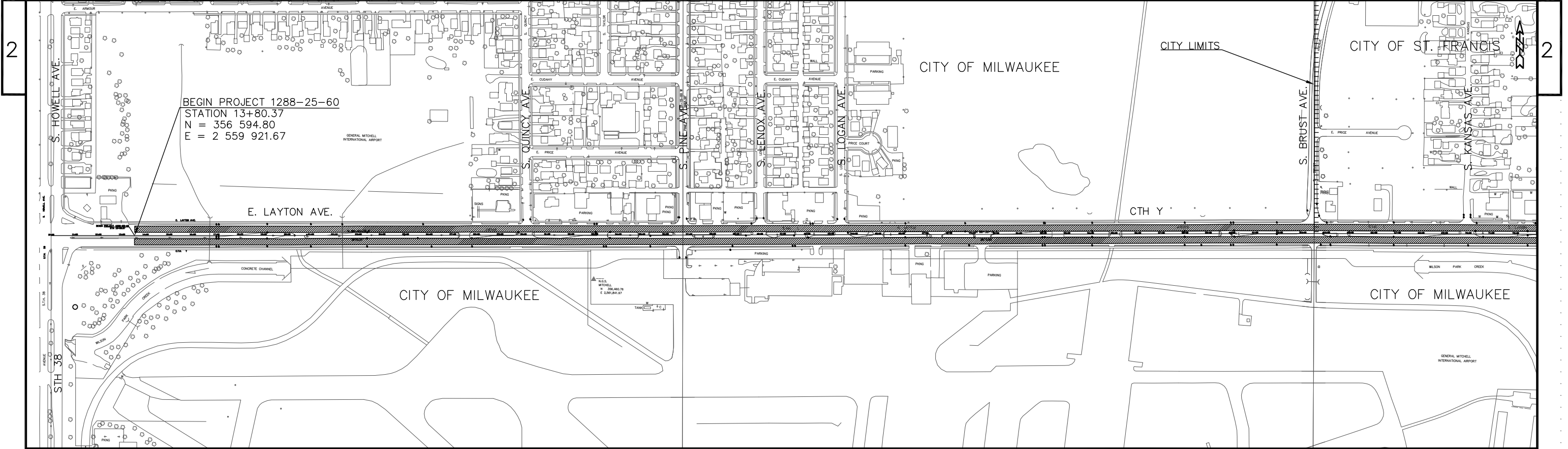
ORDER OF SECTION 2 SHEETS

TITLE	SHEET NO.
WRITTEN MATERIALS	
PROJECT OVERVIEW	
TYPICAL SECTIONS	
CONSTRUCTION DETAILS	
EROSION CONTROL	
PAVEMENT MARKING	
ALIGNMENT DIAGRAM	



Call 8 1 1
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www. DiggersHotline.com
WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

REVISION DATE: 5/23/2013



REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60	HWY: E. LAYTON AVE. (CTH Y)	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SCALE: 1"=200'	SHEET NO:	E
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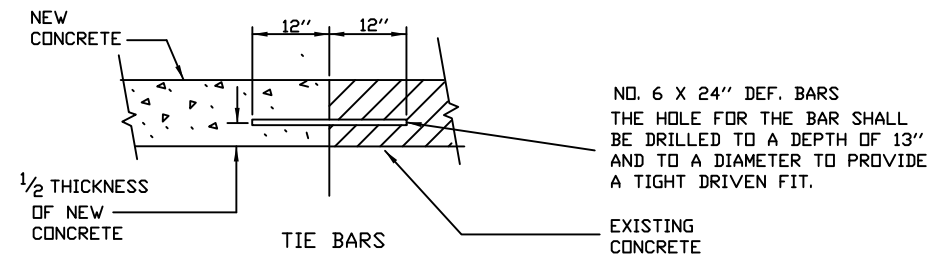
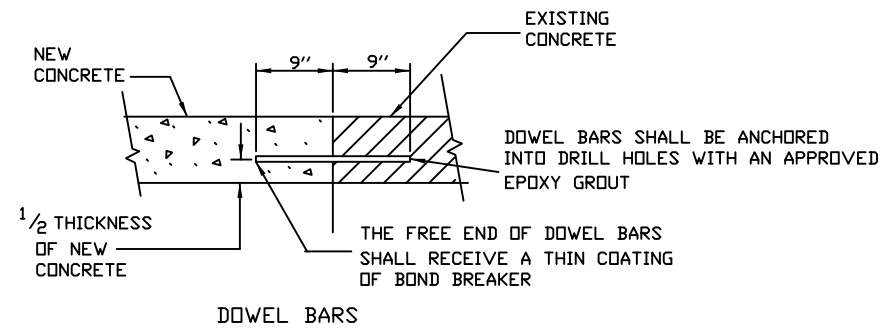
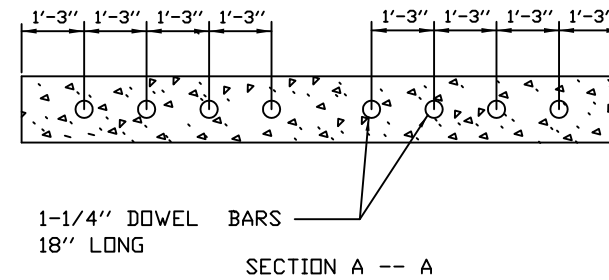
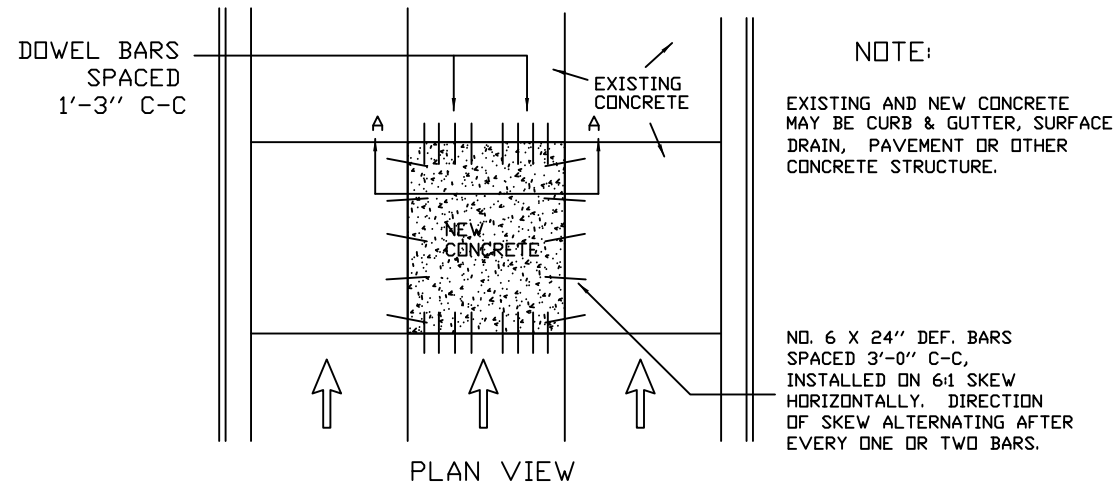


GENERAL NOTES

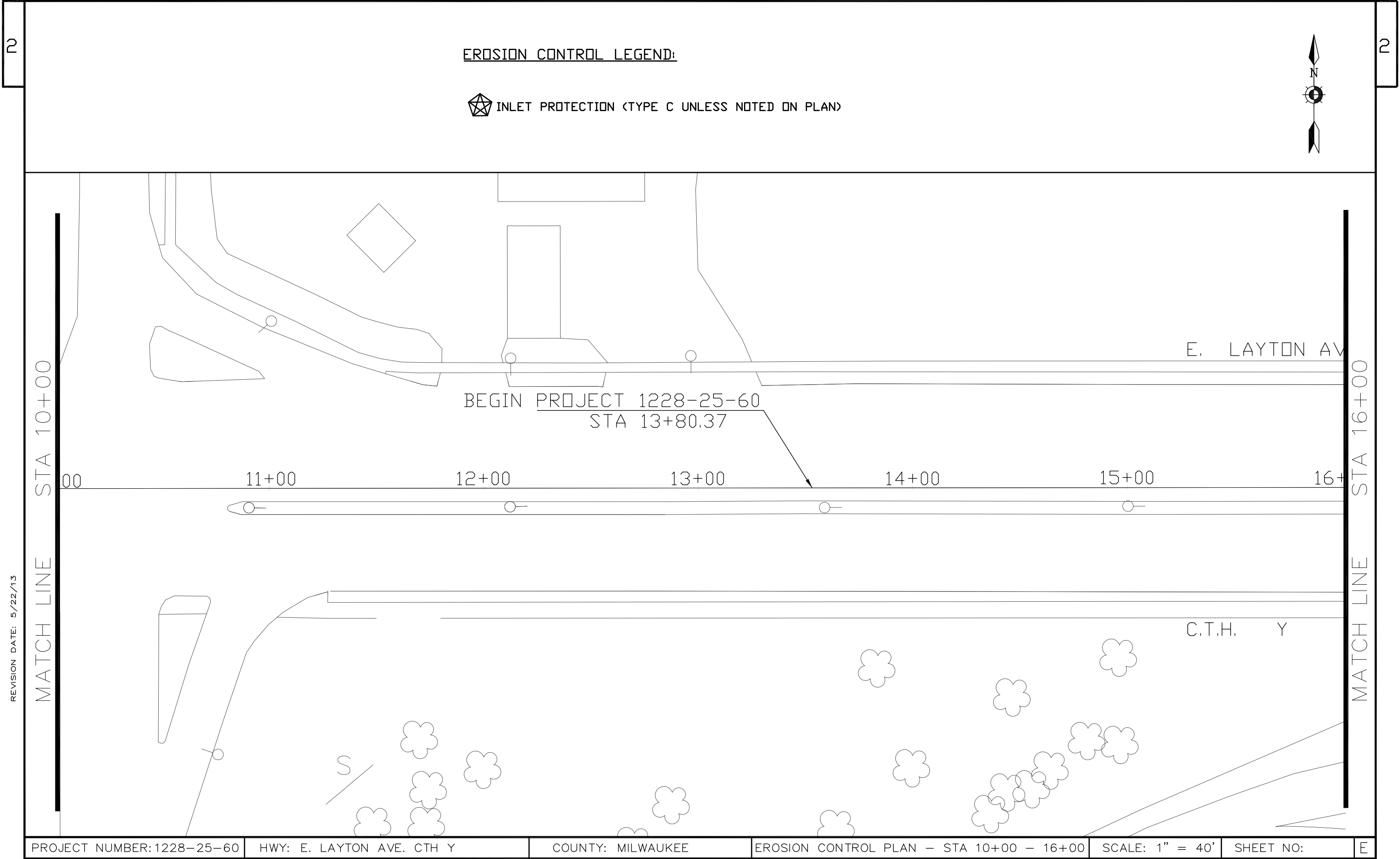
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

DEFORMED BARS USED AS TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

PAVEMENT JOINTS SHALL BE EXTENDED THROUGH INTEGRAL CURB & GUTTER. JOINTS IN INTEGRAL GUTTER SHALL HAVE THE SAME DIMENSIONS AS THE JOINTS IN THE ADJACENT PAVEMENT. JOINTS IN INTEGRAL CURB SHALL BE 1/8" WIDE.



PAVEMENT REPLACEMENT
CONCRETE-PAVEMENT TIES



REVISION DATE: 5/22/13

MATCH LINE STA 10+00

MATCH LINE STA 16+00

PROJECT NUMBER: 1228-25-60	HWY: E. LAYTON AVE. CTH Y	COUNTY: MILWAUKEE	EROSION CONTROL PLAN - STA 10+00 - 16+00	SCALE: 1" = 40'	SHEET NO:	E
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EROSION CONTROL LEGEND:

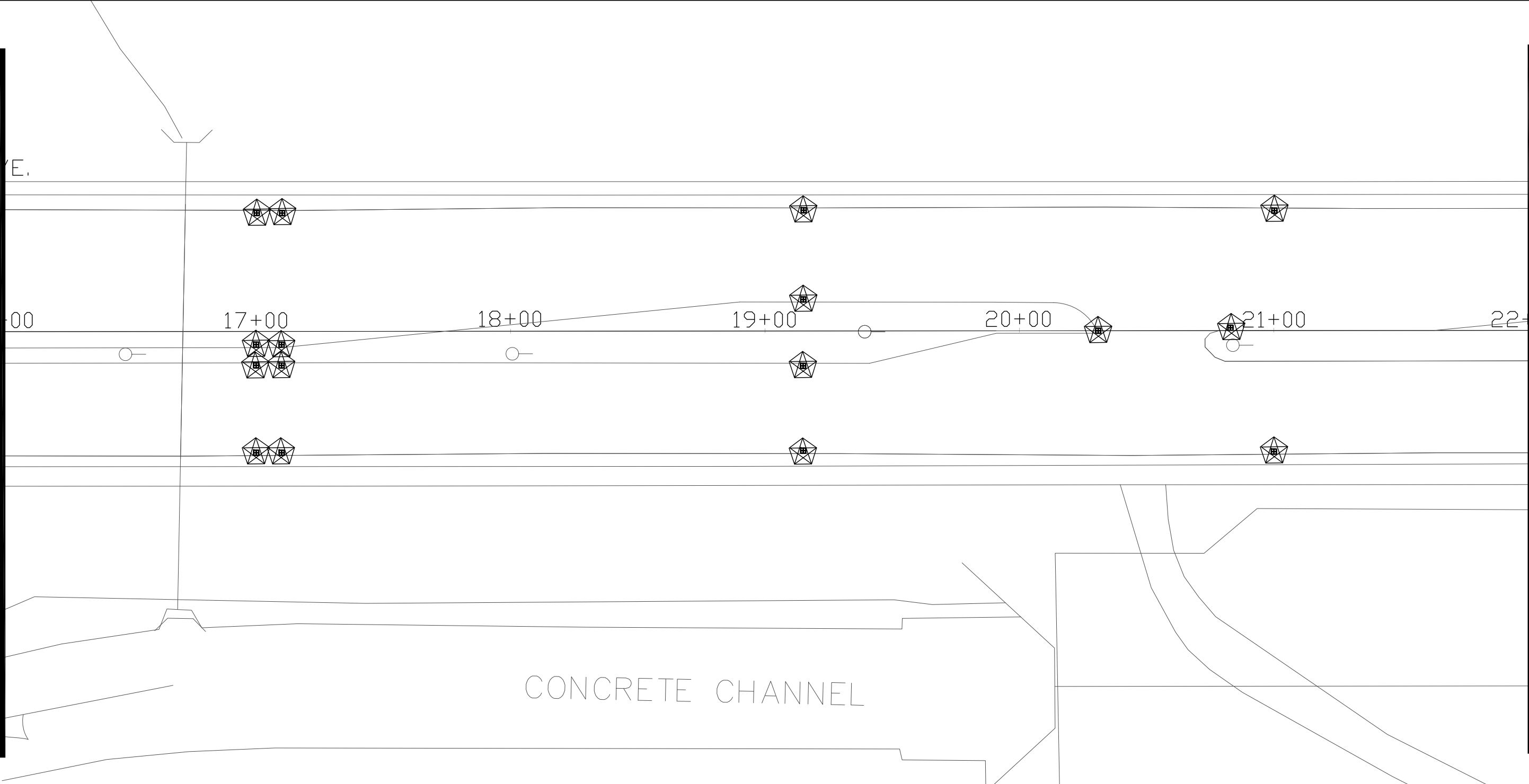


INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13

MATCH LINE STA 16+00

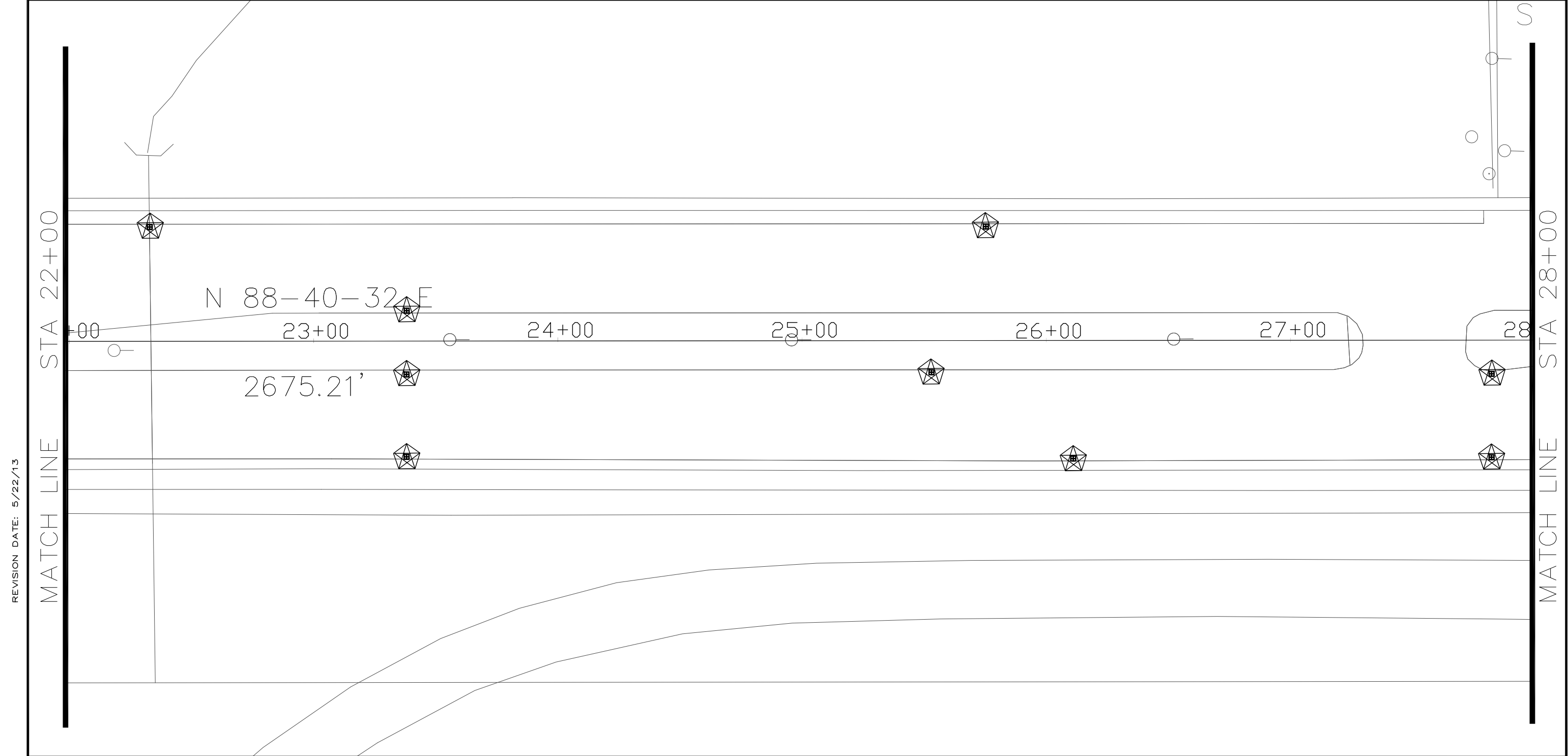


MATCH LINE STA 22+00

EROSION CONTROL LEGEND:



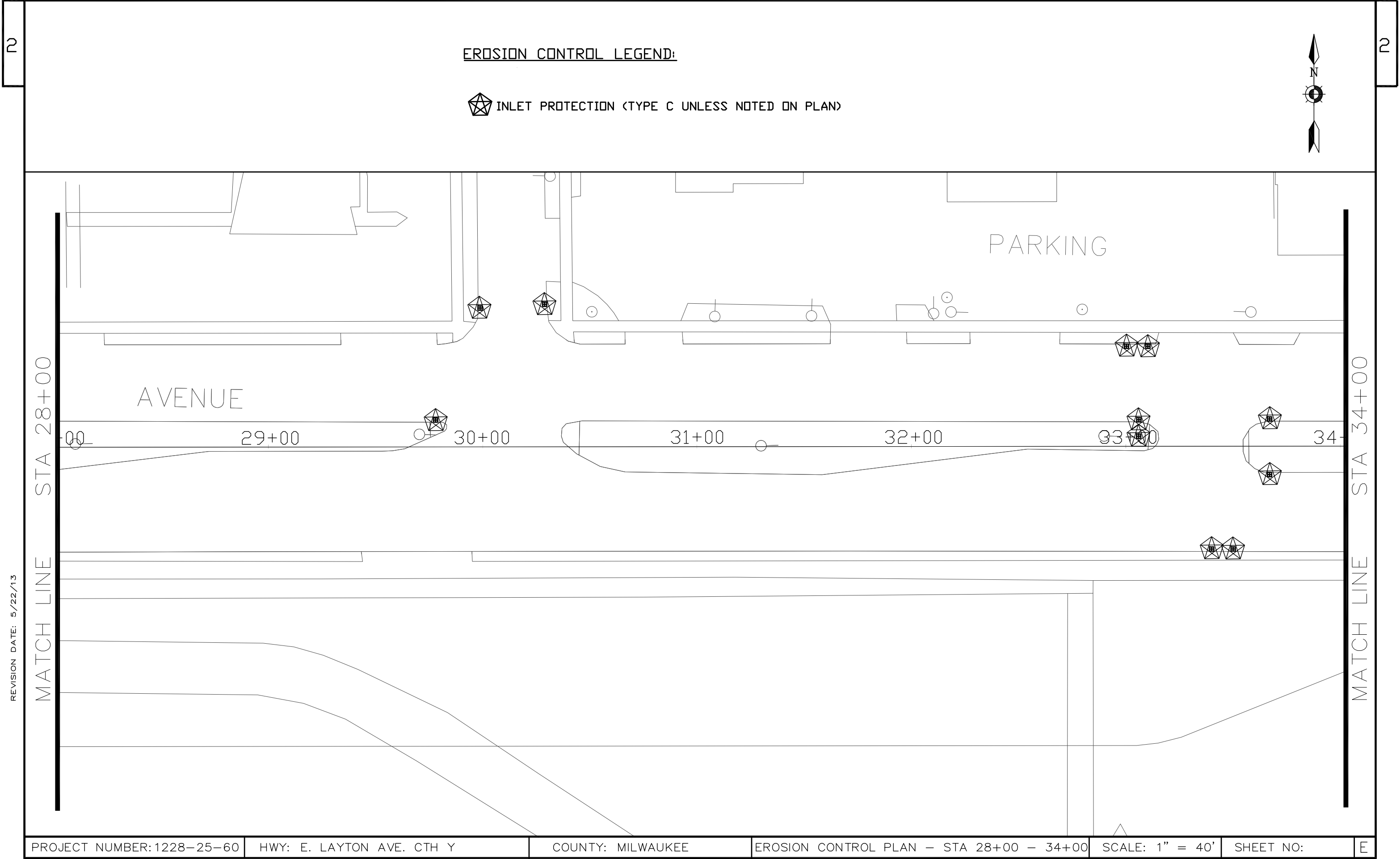
INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13

MATCH LINE STA 22+00

MATCH LINE STA 28+00



REVISION DATE: 5/22/13

EROSION CONTROL LEGEND:

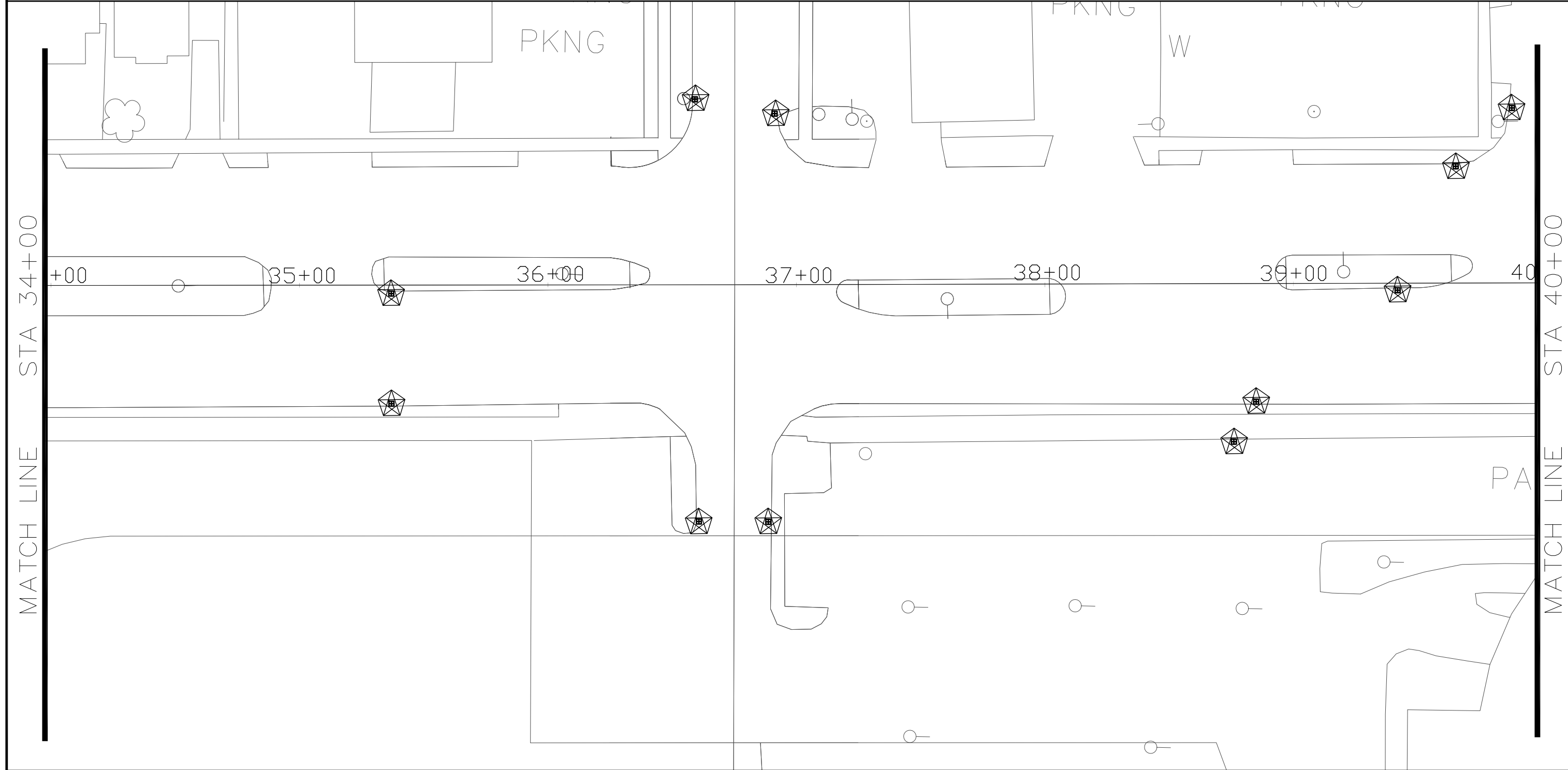
 INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13

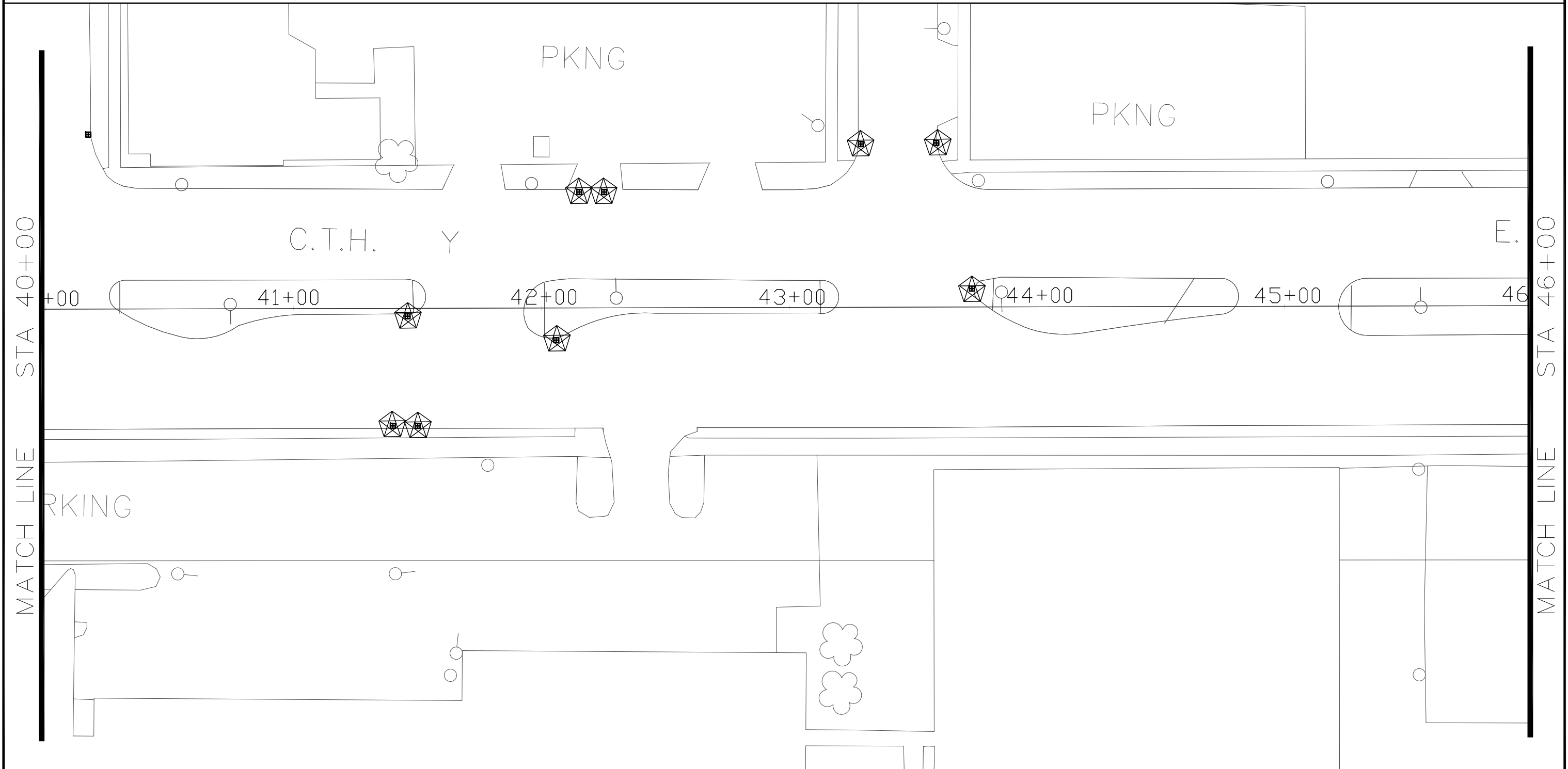
MATCH LINE STA 34+00

MATCH LINE STA 40+00



EROSION CONTROL LEGEND:

 INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13

MATCH LINE STA 40+00

MATCH LINE STA 46+00

EROSION CONTROL LEGEND:

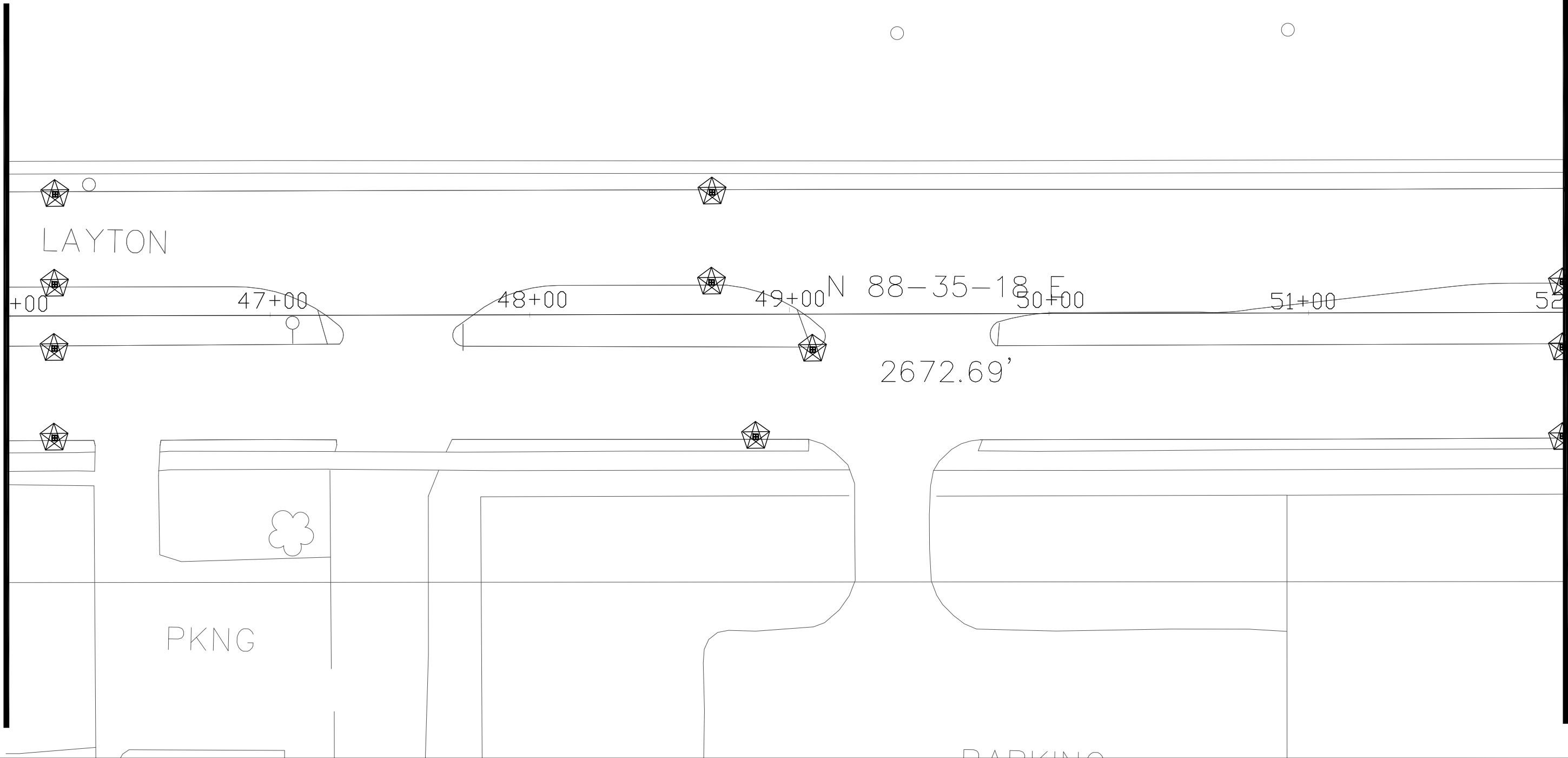


INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13

MATCH LINE STA 46+00



MATCH LINE STA 52+00

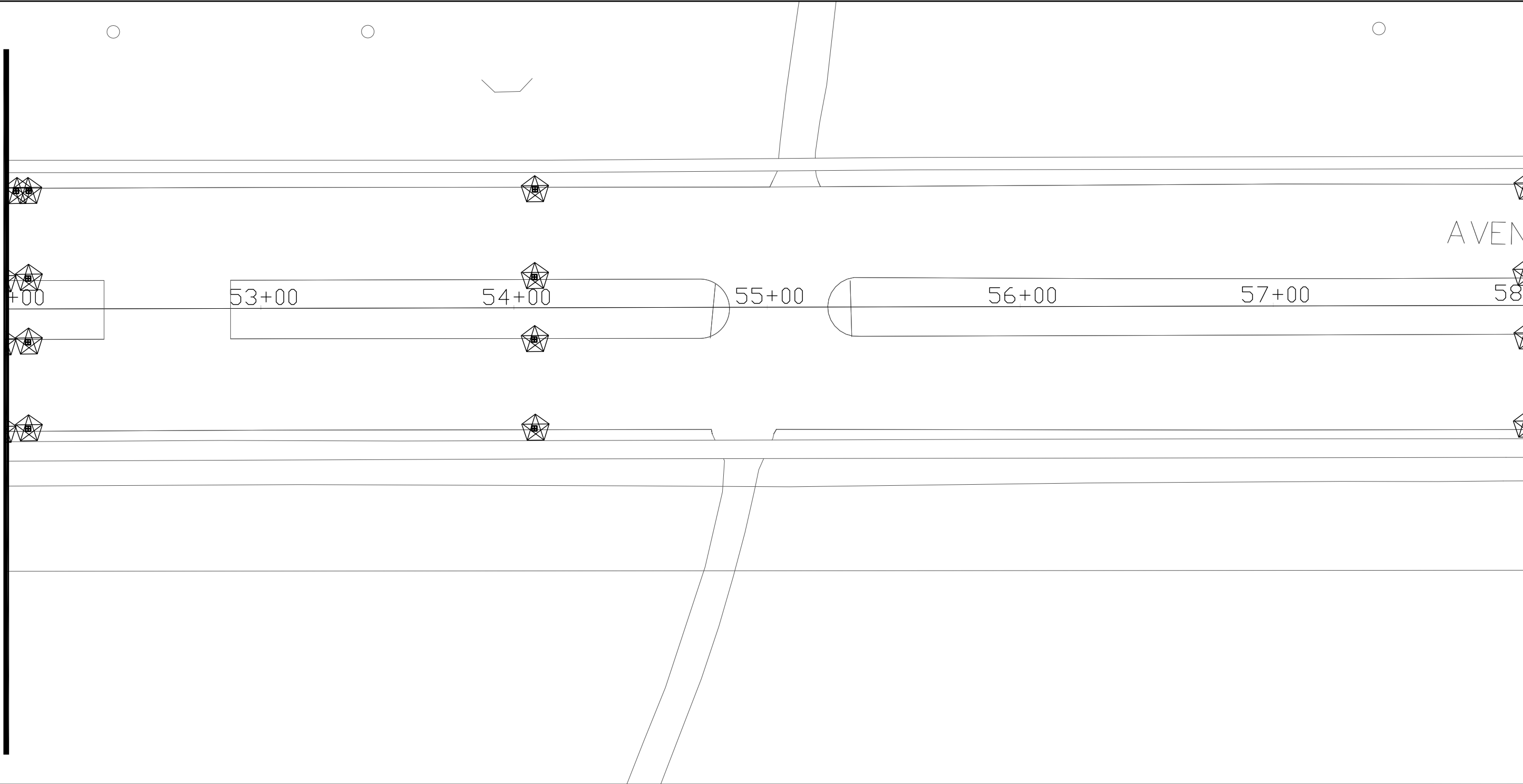
EROSION CONTROL LEGEND:

 INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13

MATCH LINE STA 52+00



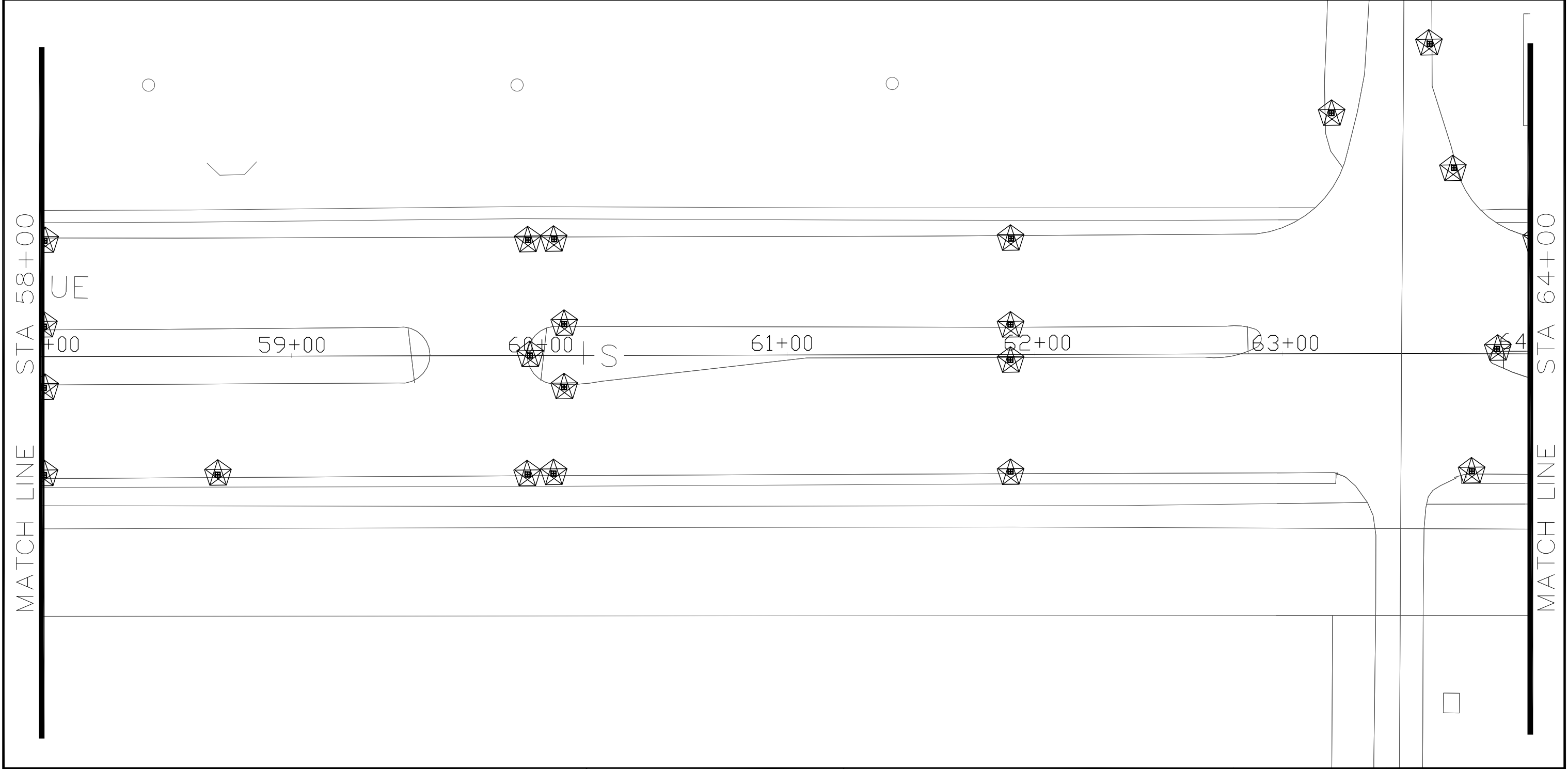
MATCH LINE STA 58+00

EROSION CONTROL LEGEND:

 INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13



EROSION CONTROL LEGEND:



INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13

MATCH LINE STA 64+00

MATCH LINE STA 70+00

C.T.H. Y

+00

65+00

66+00

67+00

68+00

69+00

70+00

WILSON

PARK

EROSION CONTROL LEGEND:



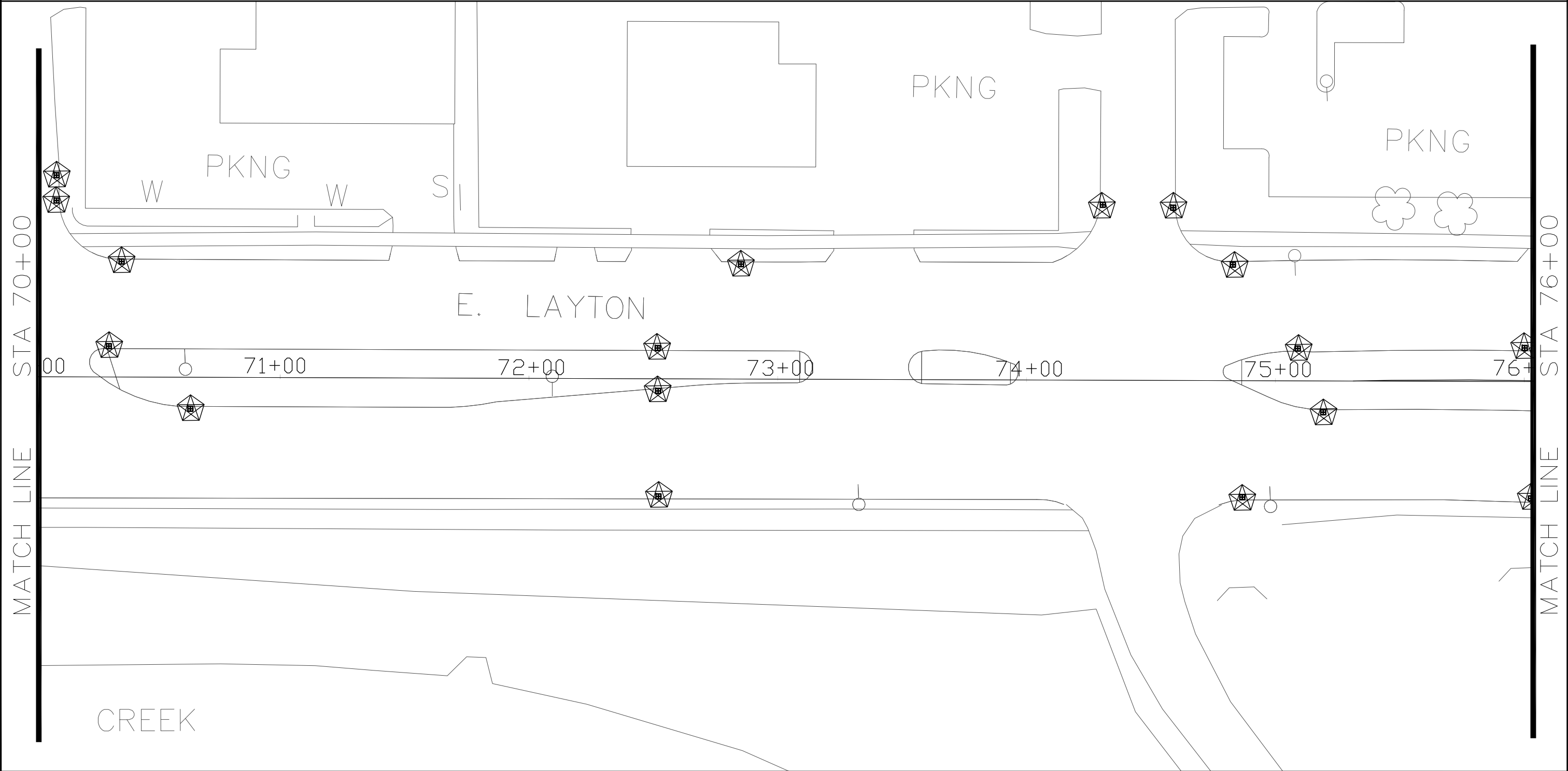
INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13

MATCH LINE STA 70+00

MATCH LINE STA 76+00



EROSION CONTROL LEGEND:

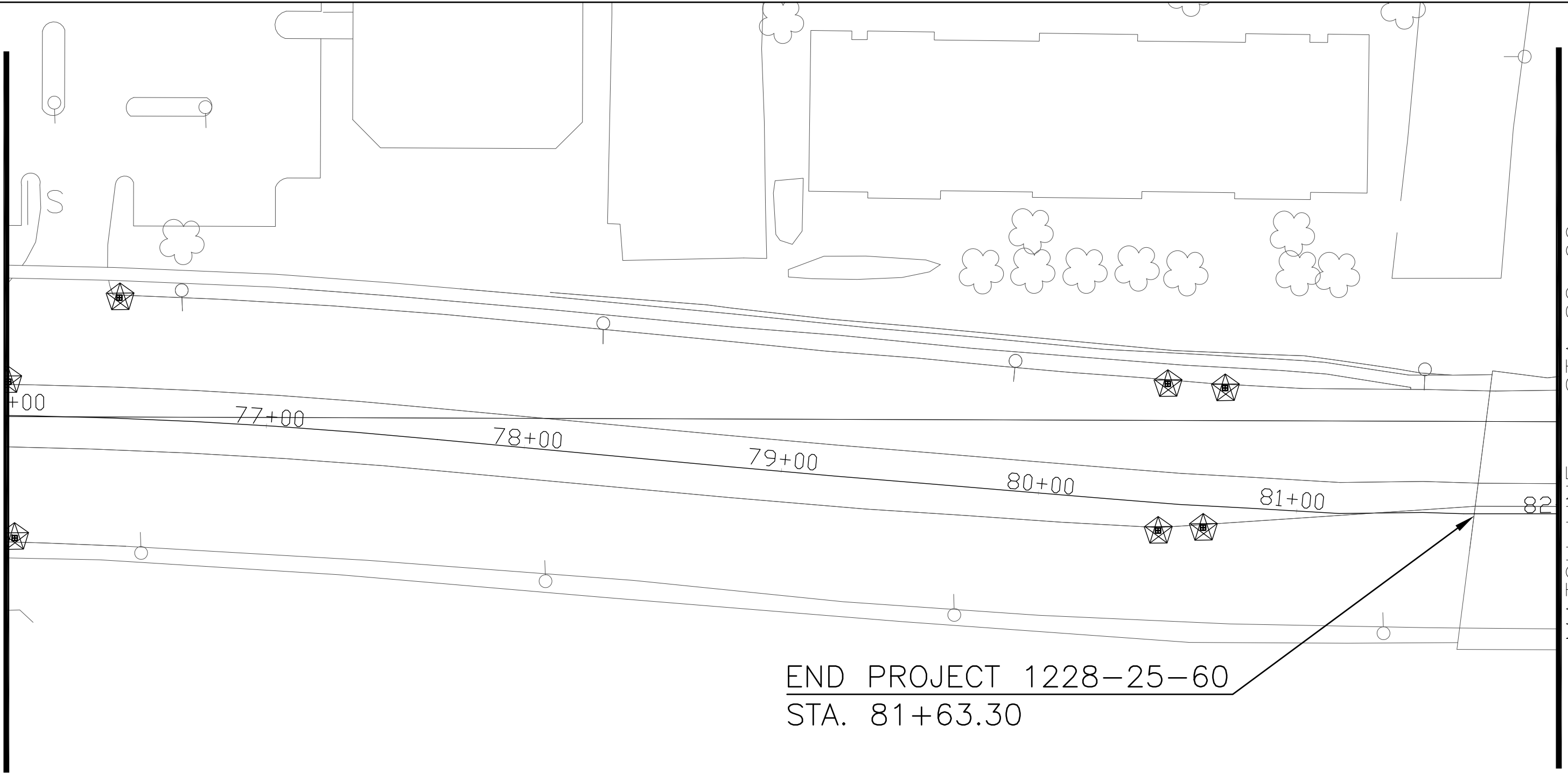
 INLET PROTECTION (TYPE C UNLESS NOTED ON PLAN)



REVISION DATE: 5/22/13

MATCH LINE STA 76+00

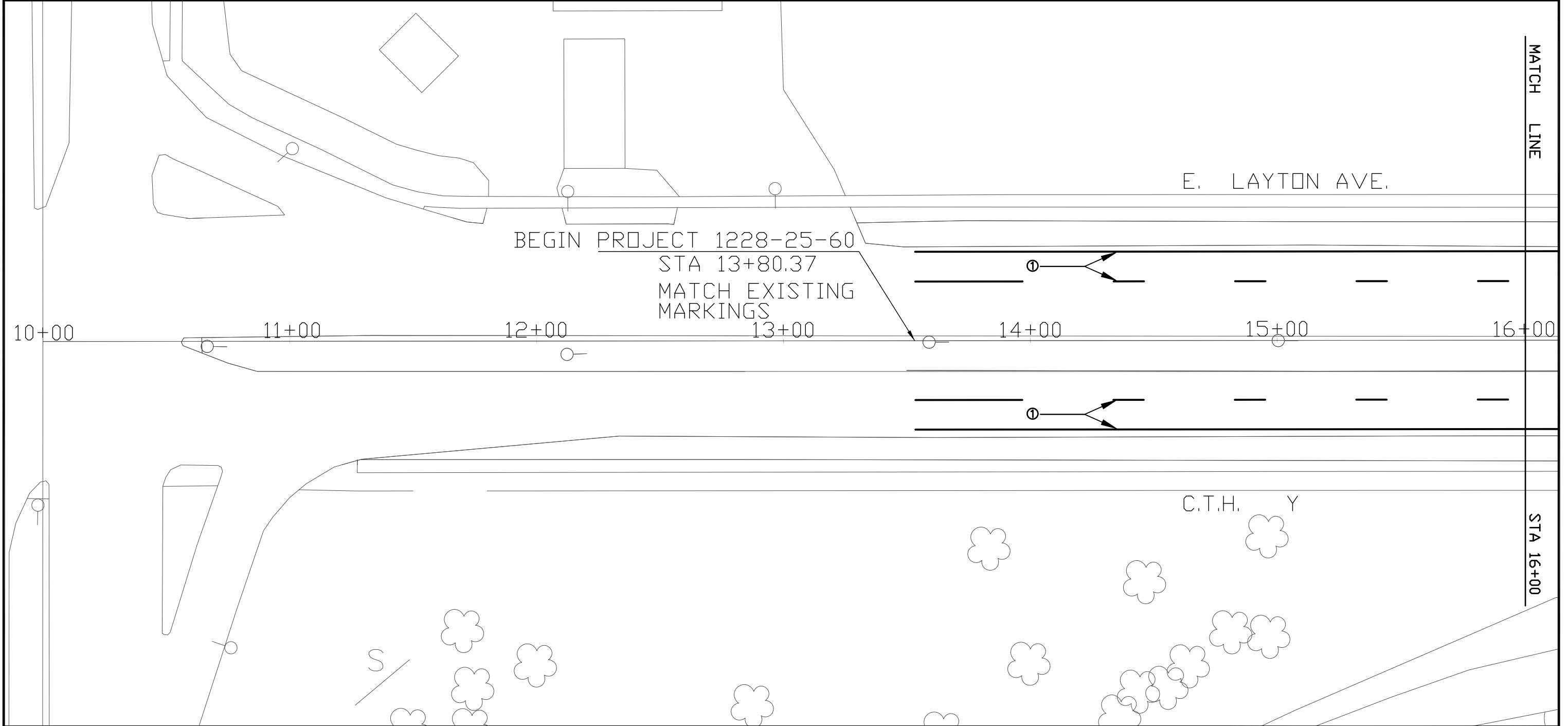
MATCH LINE STA 82+00



END PROJECT 1228-25-60
STA. 81+63.30

NOTE:
PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT
THE PROJECT ENGINEER FOR PROPER LAYOUT.

- PAVEMENT MARKING LEGEND
- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
 - ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK - WHITE)
 - ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING - WHITE)



REVISION DATE: 2/16/11

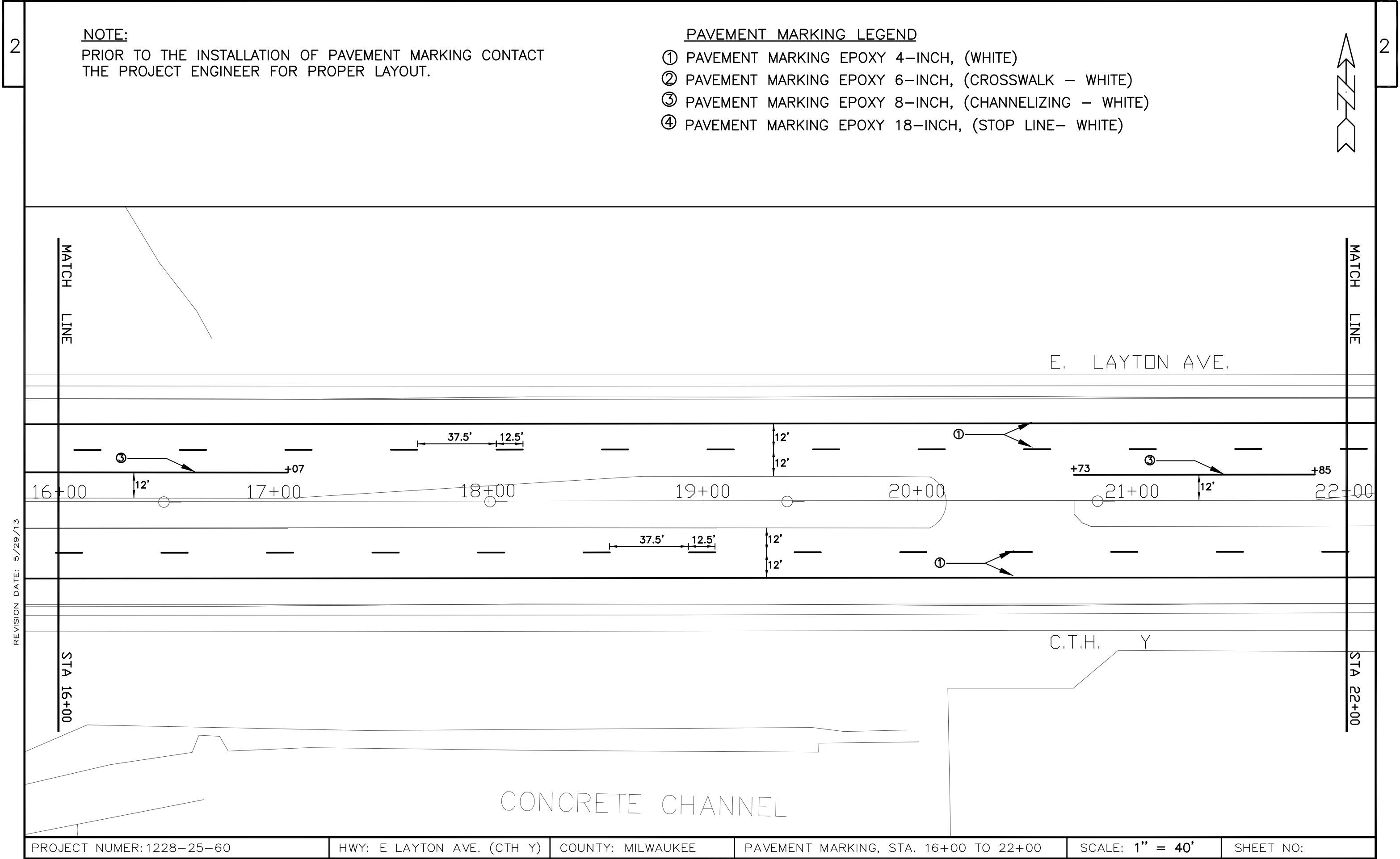
PROJECT NUMER: 1228-25-60	HWY: E LAYTON AVE. (CTH Y)	COUNTY: MILWAUKEE	PAVEMENT MARKING, STA. 10+00 TO 16+00	SCALE: 1" = 40'	SHEET NO:
---------------------------	----------------------------	-------------------	---------------------------------------	-----------------	-----------

2

PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK – WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING – WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE– WHITE)

2

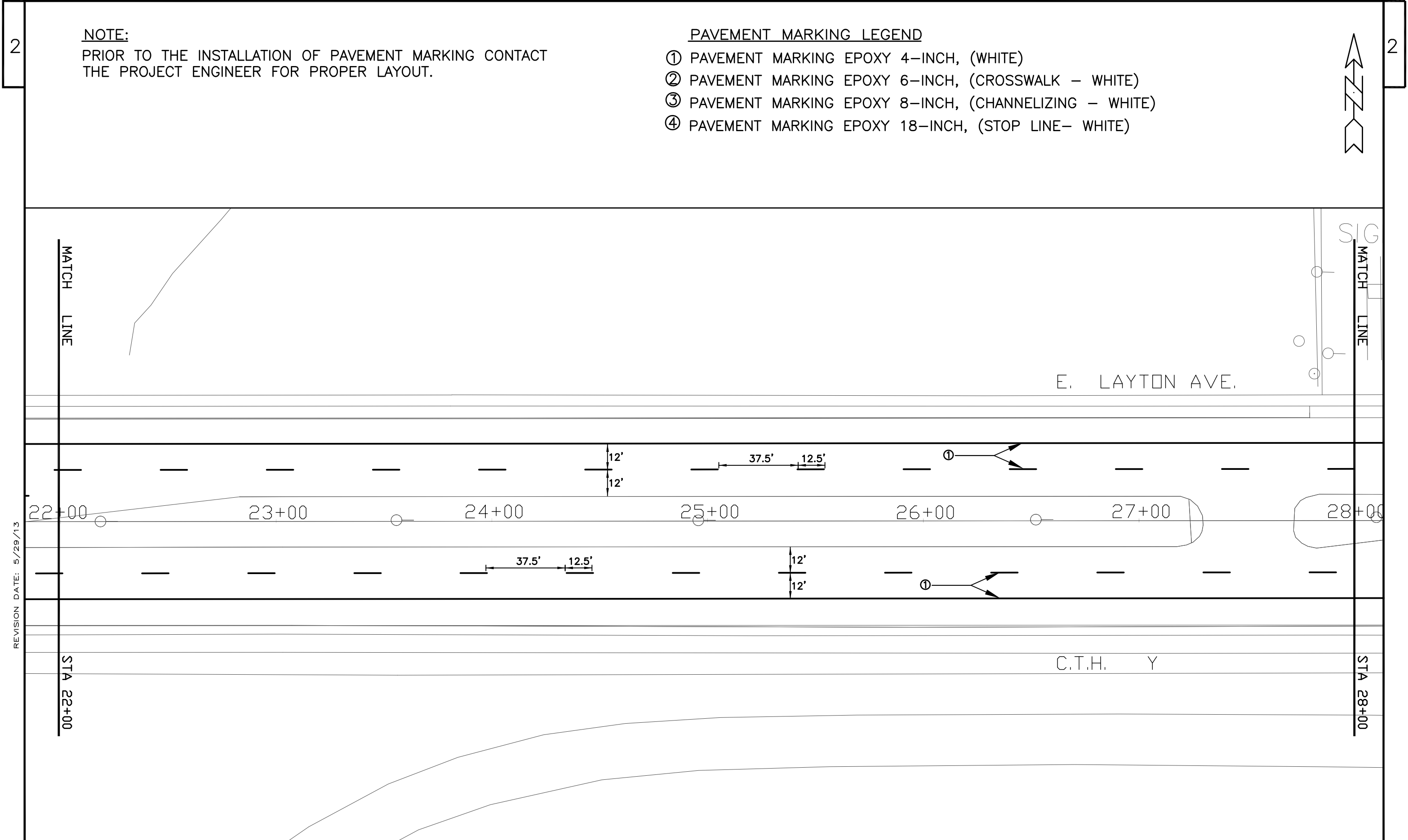


2

PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK - WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING - WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE- WHITE)

2



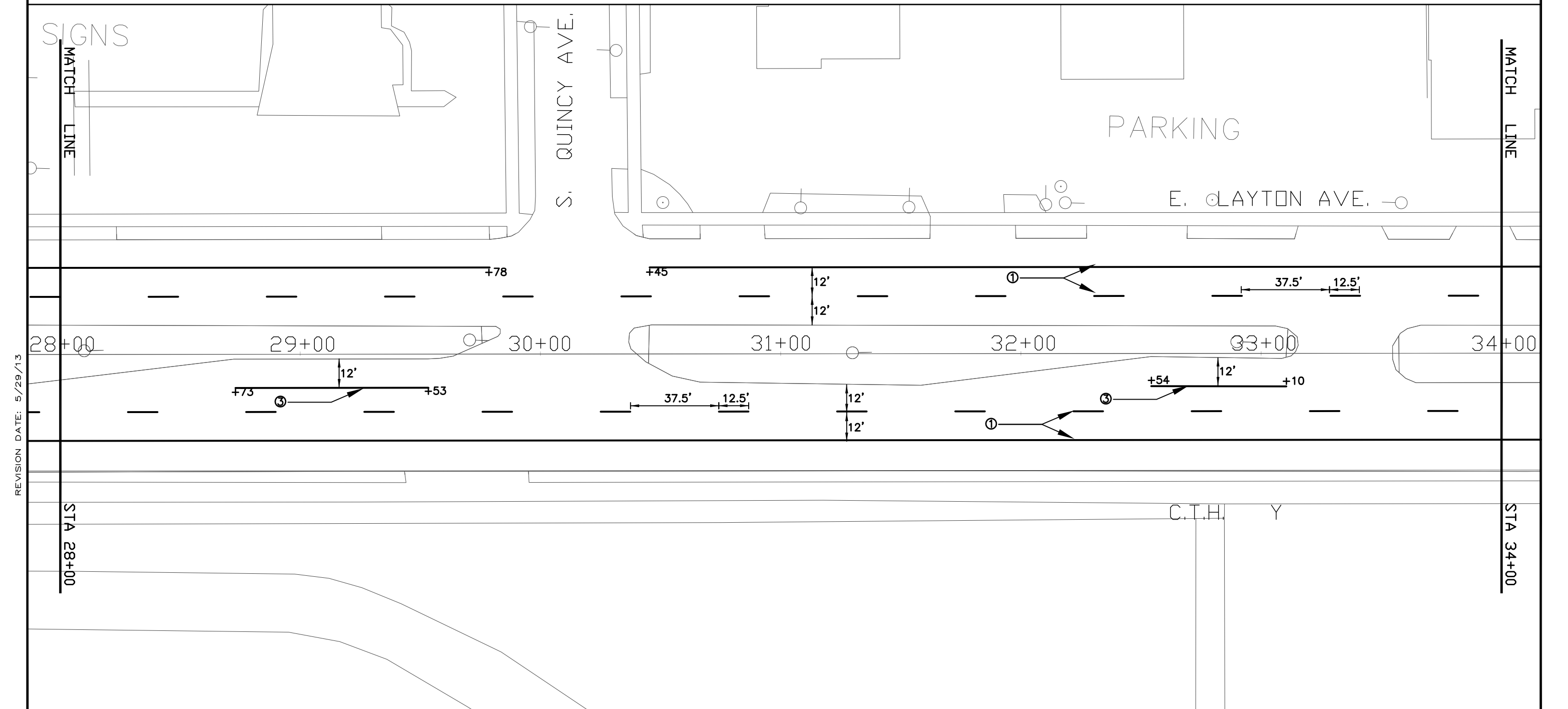
SHEET NO:

2

PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK - WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING - WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE- WHITE)

2

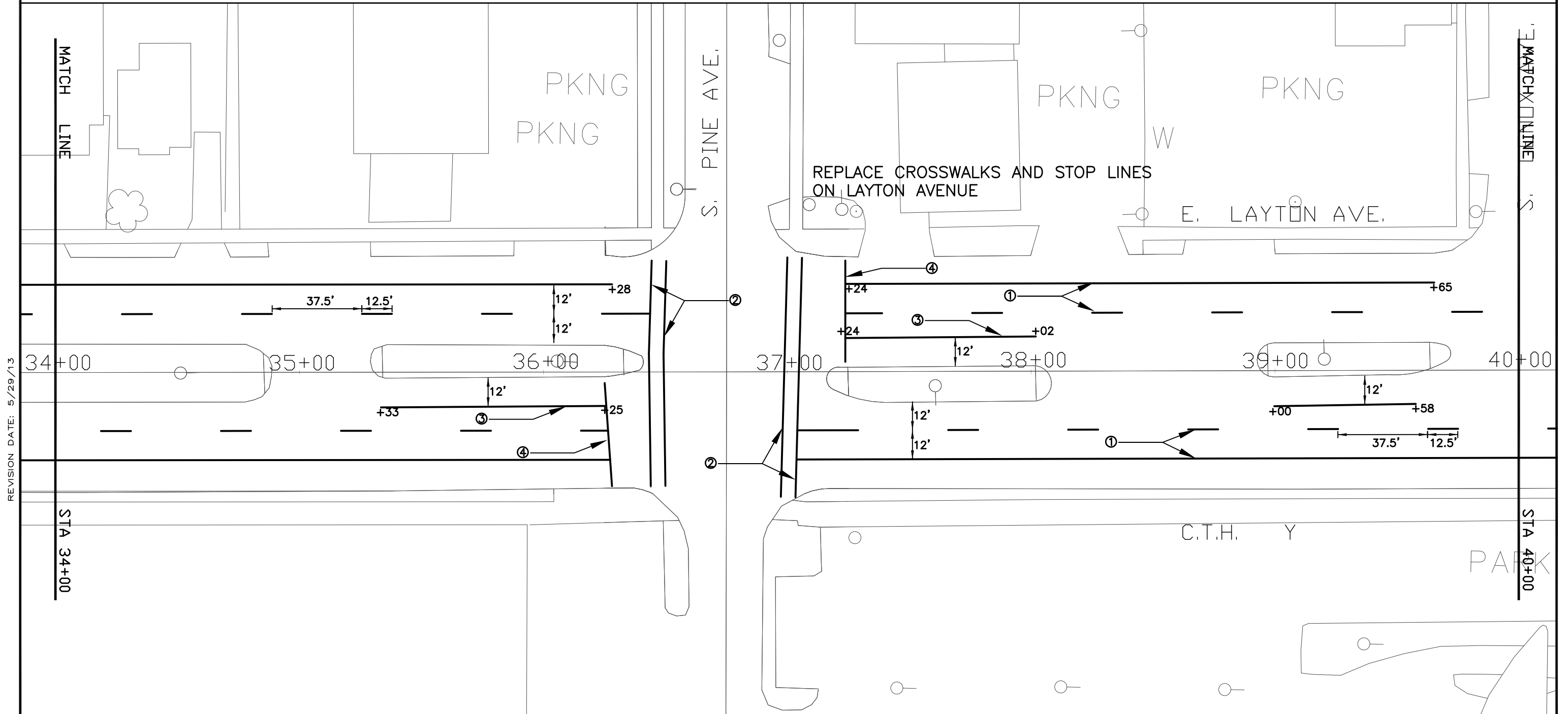


NOTE:

PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK – WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING – WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE– WHITE)



REVISION DATE: 5/29/13

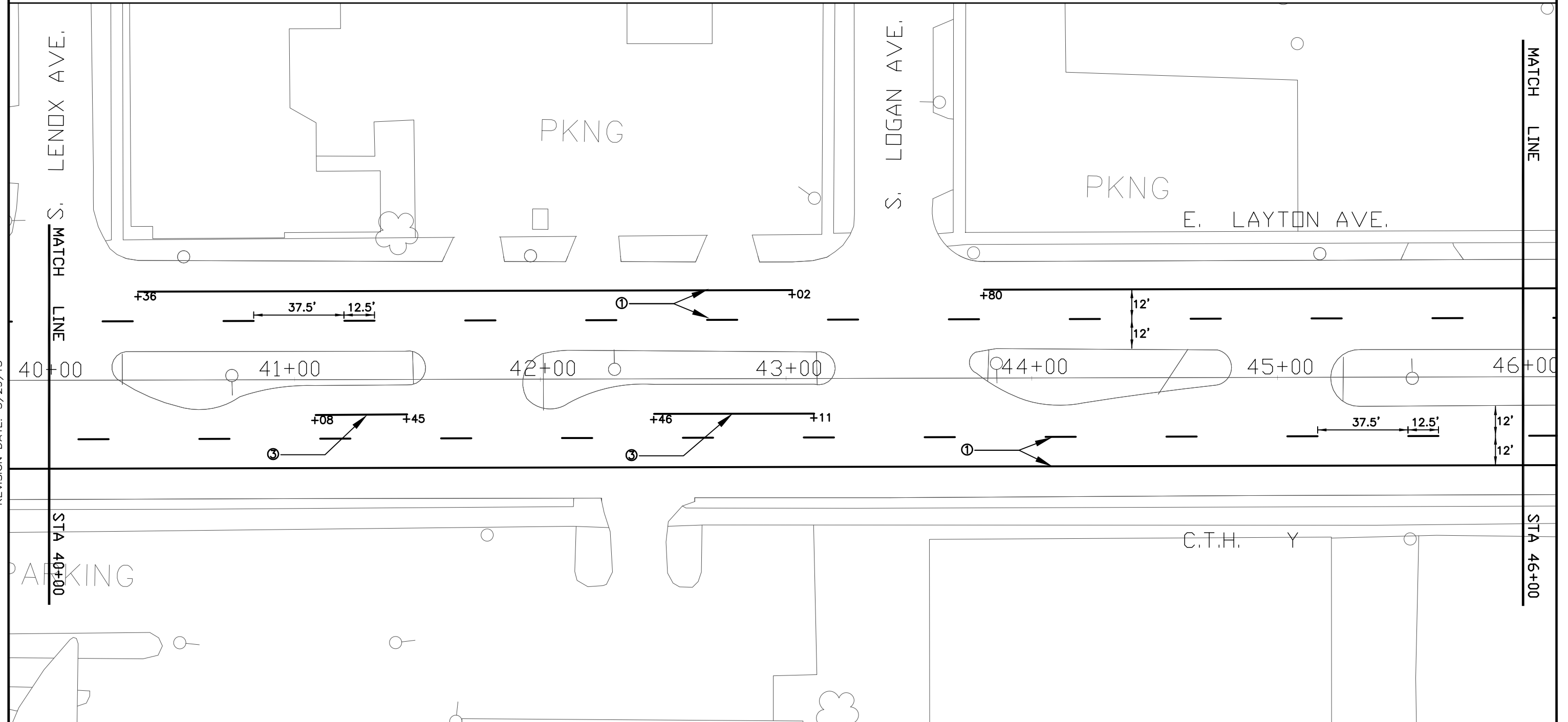
NOTE:

PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK – WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING – WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE– WHITE)

REVISION DATE: 5/29/13



PROJECT NUMER: 1228-25-60

HWY: E LAYTON AVE. (CTH Y)

COUNTY: MILWAUKEE

PAVEMENT MARKING, STA. 40+00 TO 46+00

SCALE: 1" = 40'

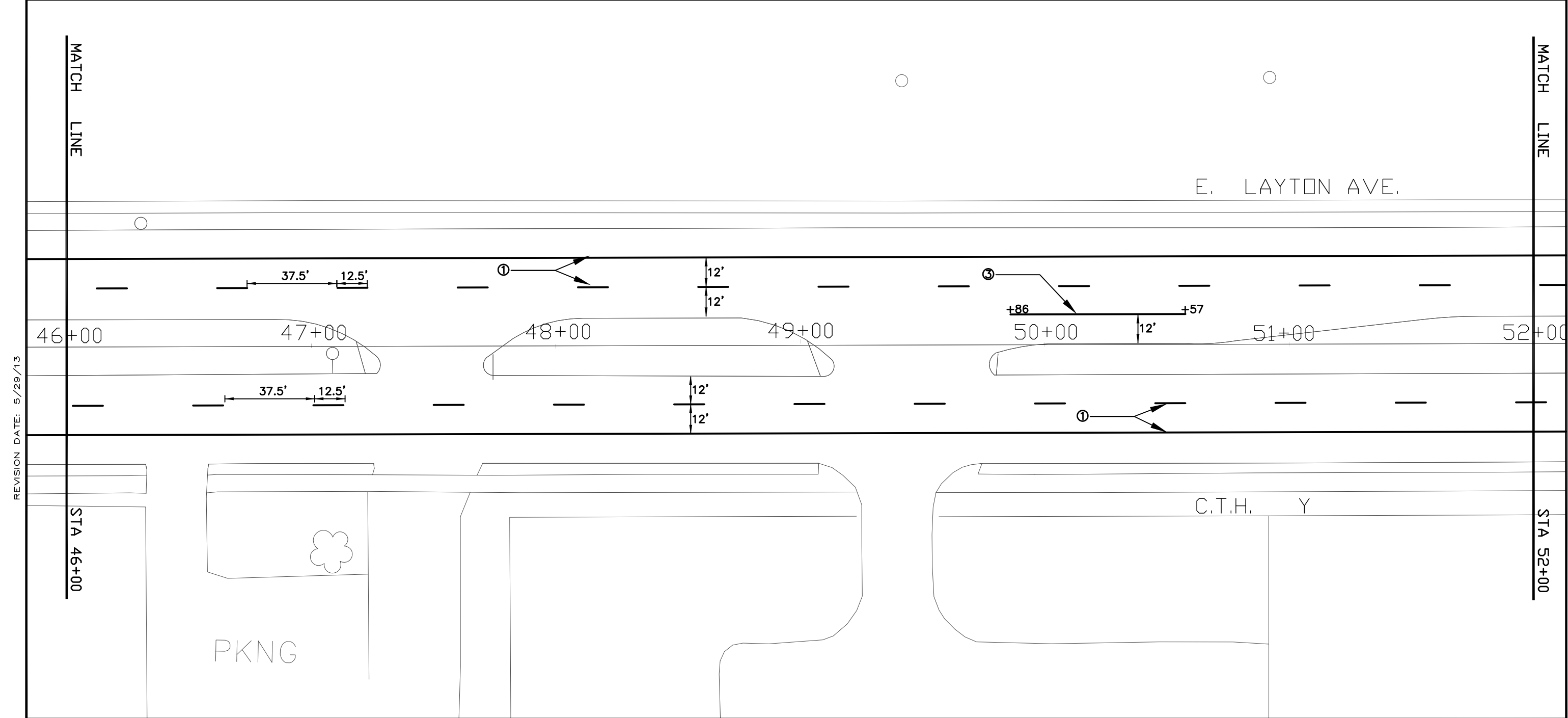
SHEET NO:

NOTE:

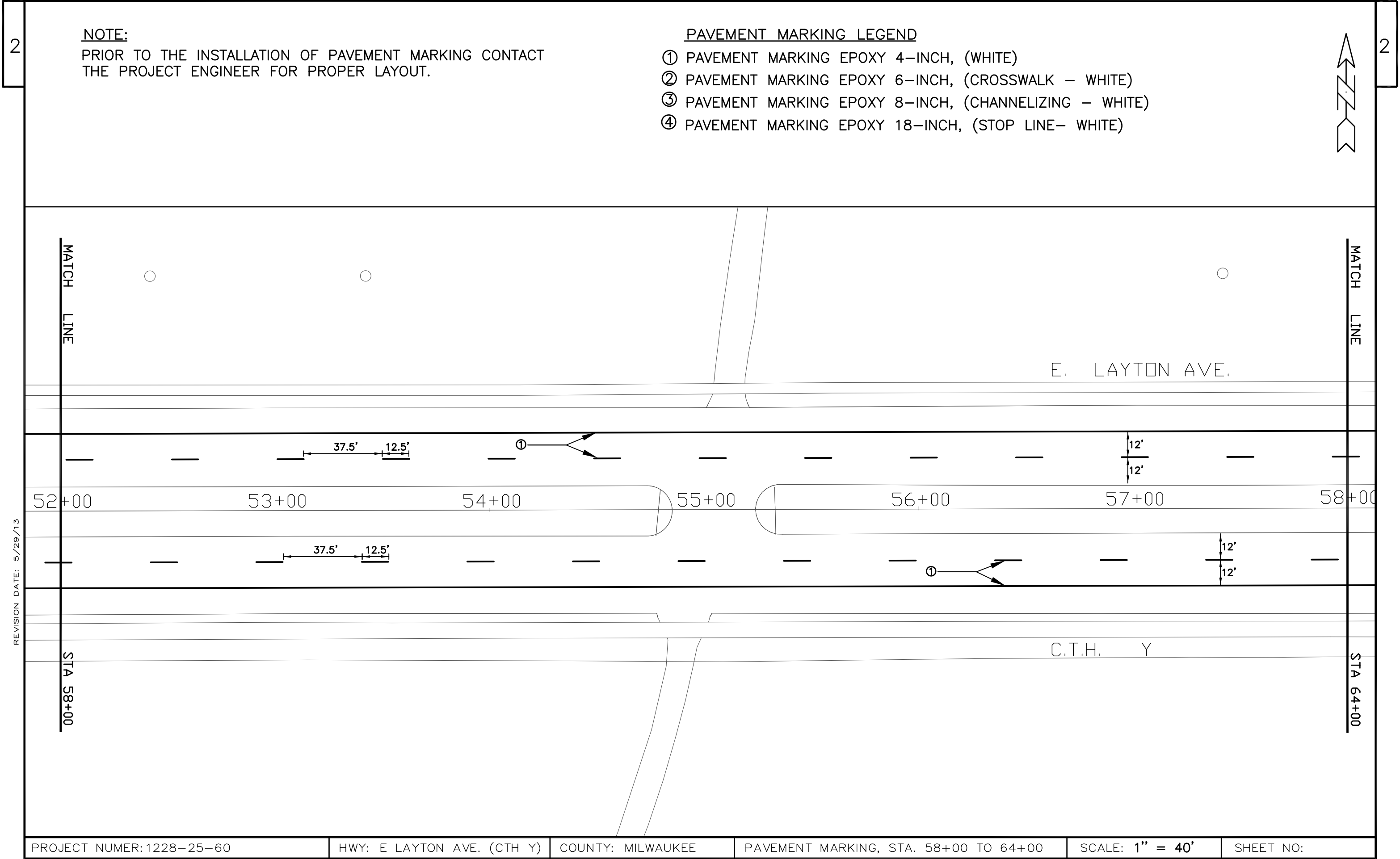
PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK – WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING – WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE– WHITE)



REVISION DATE: 5/29/13



REVISION DATE: 5/29/13

PROJECT NUMER: 1228–25–60	HWY: E LAYTON AVE. (CTH Y)	COUNTY: MILWAUKEE	PAVEMENT MARKING, STA. 58+00 TO 64+00	SCALE: 1" = 40'	SHEET NO:
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NOTE:

PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

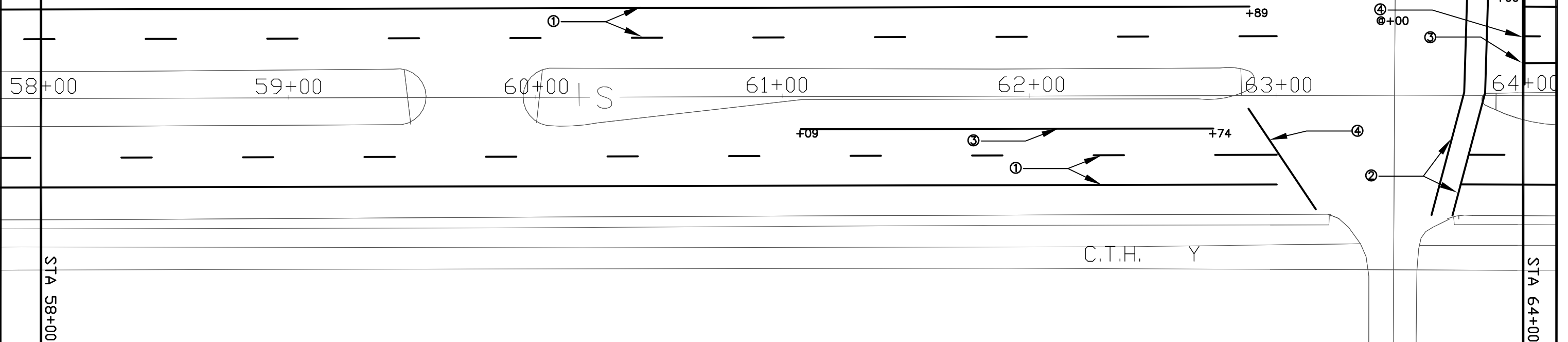
PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK - WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING - WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE- WHITE)

REVISION DATE: 5/29/13

MATCH LINE

STA 58+00



MATCH LINE

STA 64+00

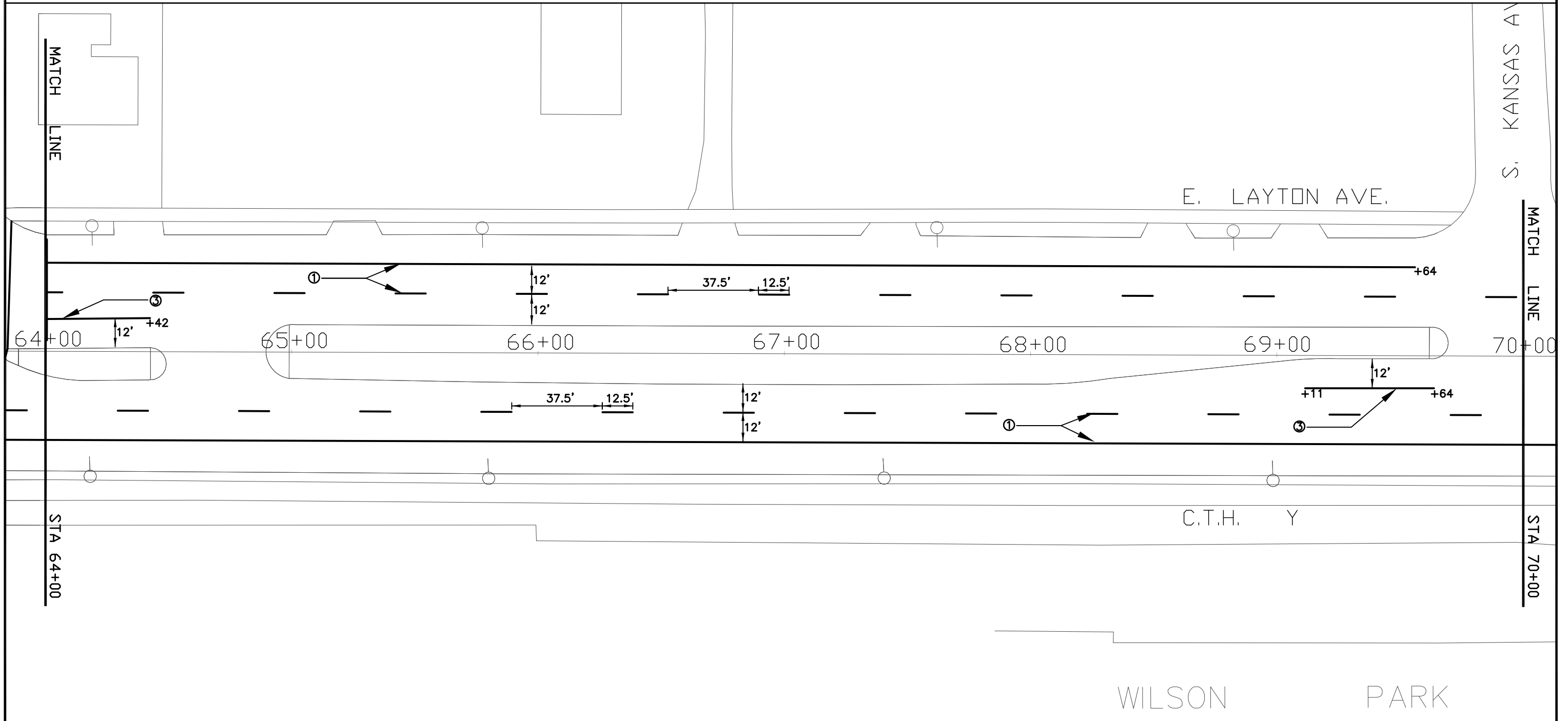
NOTE:

PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK – WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING – WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE– WHITE)

REVISION DATE: 5/29/13



PROJECT NUMER: 1228-25-60

HWY: E LAYTON AVE. (CTH Y)

COUNTY: MILWAUKEE

PAVEMENT MARKING, STA. 64+00 TO 70+00

SCALE: 1" = 40'

SHEET NO:

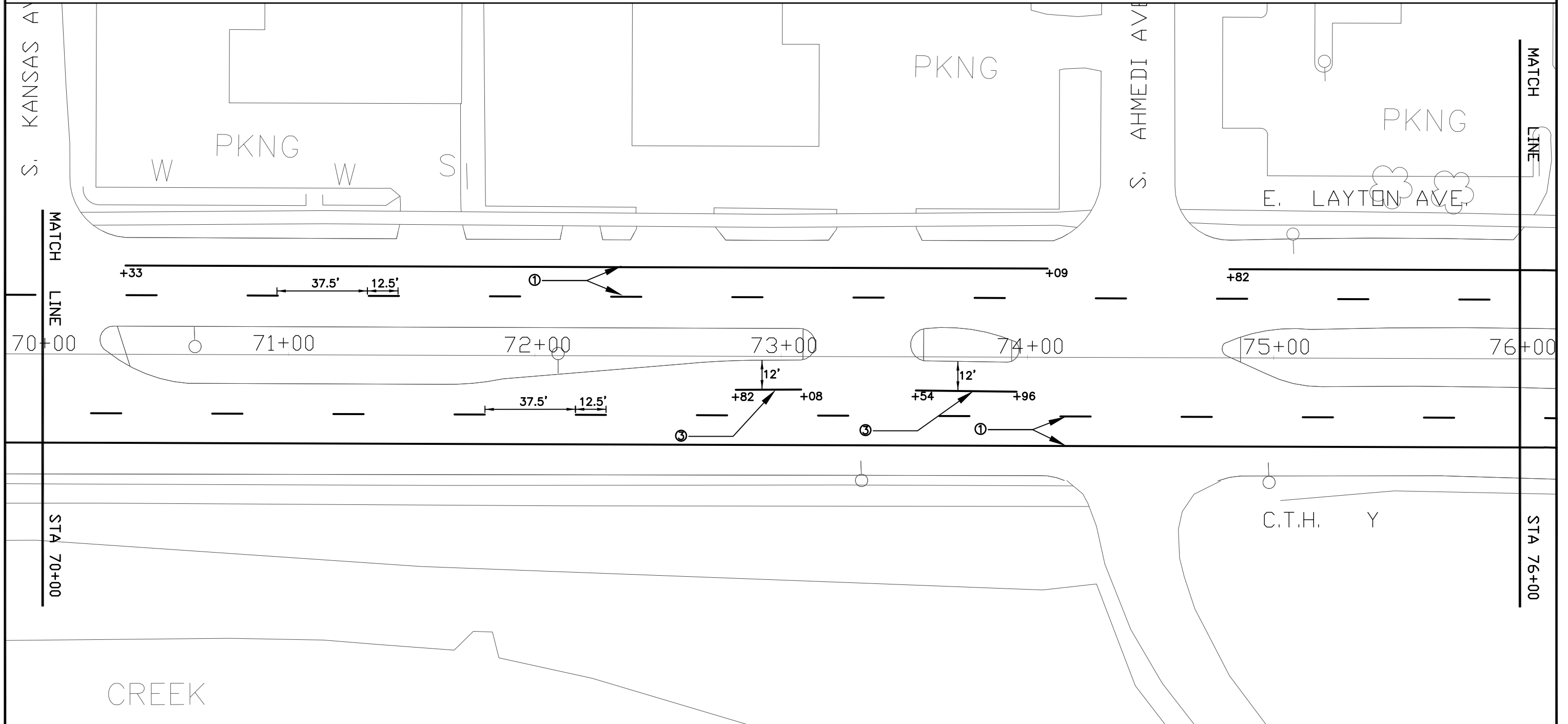
NOTE:

PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK – WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING – WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE– WHITE)

REVISION DATE: 5/29/13



PROJECT NUMER: 1228-25-60

HWY: E LAYTON AVE. (CTH Y)

COUNTY: MILWAUKEE

PAVEMENT MARKING, STA. 70+00 TO 76+00

SCALE: 1" = 40'

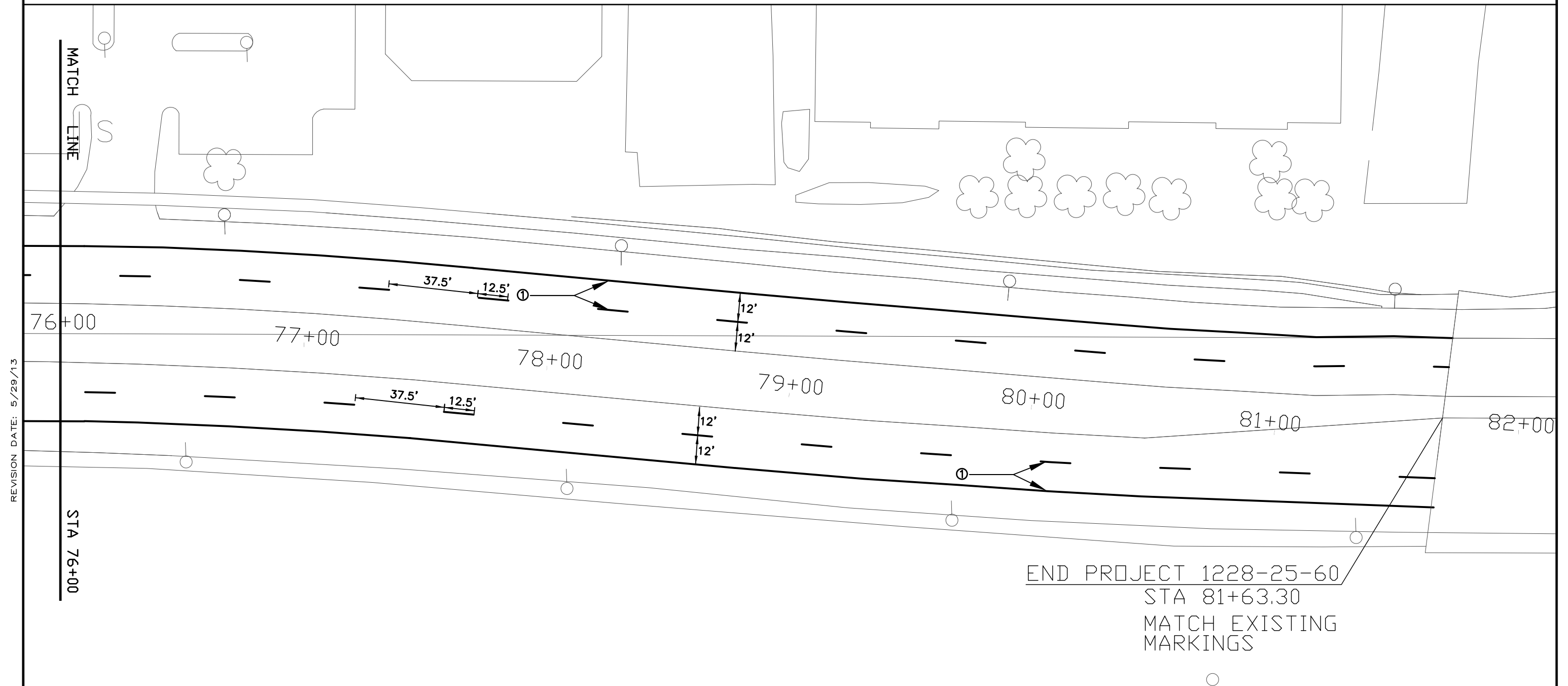
SHEET NO:

NOTE:

PRIOR TO THE INSTALLATION OF PAVEMENT MARKING CONTACT THE PROJECT ENGINEER FOR PROPER LAYOUT.

PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING EPOXY 4-INCH, (WHITE)
- ② PAVEMENT MARKING EPOXY 6-INCH, (CROSSWALK – WHITE)
- ③ PAVEMENT MARKING EPOXY 8-INCH, (CHANNELIZING – WHITE)
- ④ PAVEMENT MARKING EPOXY 18-INCH, (STOP LINE– WHITE)



END PROJECT 1228-25-60
STA 81+63.30
MATCH EXISTING
MARKINGS

REVISION DATE: 5/29/13

S. HOWELL AVE.

BEGIN PROJECT 1288-25-60
STATION 13+80.37
N = 356 594.80
E = 2 559 921.67

E. LAYTON AVE.

N 88° 40' 32" E

2 675.21'

S. QUINCY AVE.

S. PINE AVE.

S. LENOX AVE.

S. LOGAN AVE.

CITY OF MILWAUKEE

N 88° 35' 18" E

2 672.69'

CTH Y

CITY OF ST. FRANCIS

S. BRUST AVE.

S. KANSAS AVE.

N 88° 54' 60" E

2 646.50'

CITY OF MILWAUKEE

CITY OF MILWAUKEE

STH 38



CITY OF ST. FRANCIS

S. AHMEDI AVE.

RAIL ROAD

STH 794

END PROJECT 1288-25-60
STATION 81+63.30

E. LAYTON AVE.

CTH Y

N 88° 54' 50" E

2 646.50'

S. PENNSYLVANIA AVE.

CITY OF MILWAUKEE

CITY OF CUDAHY

CITY LIMITS

UNION PACIFIC
LAKE PARKWAY

REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE. (CTH Y)

COUNTY: MILWAUKEE

ALIGNMENT DIAGRAM

SCALE: 1"=200'

SHEET NO:

E

DATE 17JUL13			E S T I M A T E O F Q U A N T I T I E S		
LINE					1228-25-60
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0005	213.0100	FINISHING ROADWAY (PROJECT) 01. 1228-25-60	EACH	1.000	1.000
0010	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	20.000	20.000
0015	416.0610	DRILLED TIE BARS	EACH	252.000	252.000
0020	416.0620	DRILLED DOWEL BARS	EACH	288.000	288.000
0025	416.1725	CONCRETE PAVEMENT REPLACEMENT SHES	SY	500.000	500.000
0030	420.1000.S	CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING	SY	41,000.000	41,000.000
0035	619.1000	MOBILIZATION	EACH	1.000	1.000
0040	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	1.000	1.000
0045	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1.000	1.000
0050	628.7015	INLET PROTECTION TYPE C	EACH	130.000	130.000
0055	643.0200	TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (PROJECT) 01. 1228-25-60	DAY	30.000	30.000
0060	643.0300	TRAFFIC CONTROL DRUMS	DAY	19,200.000	19,200.000
0065	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	960.000	960.000
0070	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	600.000	600.000
0075	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	60.000	60.000
0080	643.0900	TRAFFIC CONTROL SIGNS	DAY	1,800.000	1,800.000
0085	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	16,300.000	16,300.000
0090	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	1,200.000	1,200.000
0095	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	200.000	200.000
0100	647.0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	630.000	630.000
0105	690.0250	SAWING CONCRETE	LF	1,280.000	1,280.000

3

ITEM 213.0100 FINISHING ROADWAY PROJECT	
LOCATION	L.S.
PROJ 2160-01-70	1
ITEM TOTALS	1
	L.S.

	ITEM 305.0120
	BASE AGGREGATE DENSE 1 1/4- INCH
UNDISTRIBUTED	20
ITEM TOTAL	20
	TON

	ITEM 416.1725
	CONCRETE PAVEMENT REPLACEMENT SHES
LOCATION	SY
UNDISTRIBUTED	500
ITEM TOTALS	500
	SY

	ITEM 416.0610	ITEM 416.0620
	DRILLED TIE BARS	DRILLED DOWEL BARS
LOCATION	EA	EA
UNDISTRIBUTED	252	288
ITEM TOTALS	252	288
	EA	EA

	ITEM 420.1000.S
	CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING
LOCATION	SY
10+00 - 16+00	1600
16+00 - 22+00	3600
22+00 - 28+00	3600
28+00 - 34+00	3600
34+00 - 40+00	3600
40+00 - 46+00	3600
46+00 - 52+00	3600
52+00 - 58+00	3600
58+00 - 64+00	3600
64+00 - 70+00	3600
70+00 - 76+00	3600
76+00 - 84+00	3400
ITEM TOTALS	41000
	SY

	ITEM 619.1000
	MOBILIZATION
LOCATION	EA
PROJ 1228-25-60	1
ITEM TOTALS	1
	EA

3

	ITEM 628.1905
	MOBILIZATIONS EROSION CONTROL
LOCATION	EA
PROJ 1228-25-60	1
ITEM TOTALS	1
	EA
	ITEM 628.1910
	MOBILIZATIONS EMERGENCY EROSION CONTROL
LOCATION	EA
PROJ 1228-25-60	1
ITEM TOTALS	1
	EA

	ITEM 628.7015
	INLET PROTECTION TYPE C
	ITEM TOTAL EACH
LOCATION	
10+00 - 16+00	0
16+00 - 22+00	16
22+00 - 28+00	9
28+00 - 34+00	11
34+00 - 40+00	11
40+00 - 46+00	9
46+00 - 52+00	11
52+00 - 58+00	9
58+00 - 64+00	21
64+00 - 70+00	9
70+00 - 76+00	15
76+00 - 84+00	7
UNDISTRIBUTED	2
ITEM TOTALS	130


TRAFFIC CONTROL ITEMS						
	ITEM 643.0200	ITEM 643.0300	ITEM 643.0420	ITEM 643.0715	ITEM 643.0800	ITEM 643.0900
	TRAFFIC CONTROL SURVEILLANCE & MAINTENANCE DAYS	TRAFFIC CONTROL DRUMS DAYS	TRAFFIC CONTROL BARRICADES TYPE III DAYS	TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	TRAFFIC CONTROL WARNING ARROW BOARDS DAYS	TRAFFIC CONTROL SIGNS DAYS
UNDISTRIBUTED	30	19,200	960	600	60	1,800
ITEM TOTAL	30 DAYS	19,200 DAYS	960 DAYS	600 DAYS	60 DAYS	1,800 DAYS

PAVEMENT MARKING ITEMS

			646.0106 PAVEMENT MARKING	646.0883 S PAVEMENT MARKING CHANNELIZING	647.0666 PAVEMENT MARKING STOP LINE	647.0766 PAVEMENT MARKING CROSSWALK
			EPOXY 4-INCH WHITE	EPOXY 8-INCH WHITE	EPOXY 18-INCH WHITE	EPOXY 6-INCH WHITE
	LOCATION		LF	LF	LF	LF
	10+00	to	16+00	570	220	0
	16+00	to	22+00	1525	110	0
	22+00	to	28+00	1500	0	0
	28+00	to	34+00	1450	140	0
	34+00	to	40+00	1270	228	95
	40+00	to	46+00	1400	102	0
	46+00	to	52+00	1500	70	0
	52+00	to	58+00	1500	0	0
	58+00	to	64+00	1290	165	105
	64+00	to	70+00	1470	95	0
	70+00	to	76+00	1395	70	0
	76+00	to	84+00	1430	0	0
	ITEM TOTALS		16300 LF	1200 LF	200 LF	630 LF

		690.0250 SAWING CONCRETE
LOCATION		LF
UNDISTRIBUTED		1280
ITEM TOTAL		1280 LF

CATEGORY SUMMARY:
ALL ITEMS THIS SHEET ARE CATEGORY 0010

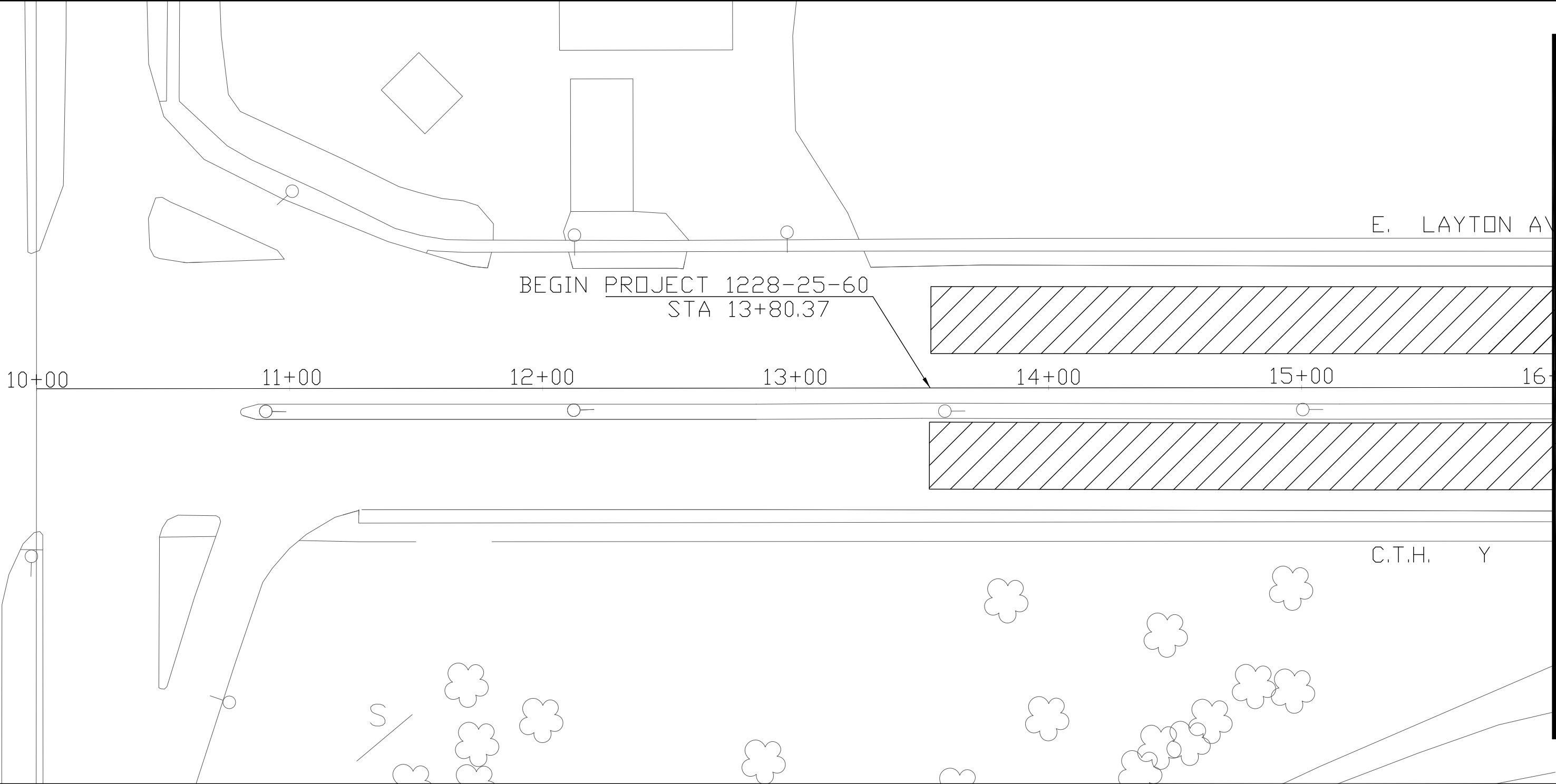
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

1. CONCRETE PAVEMENT REPLACEMENT SHES SHALL AS DIRECTED BY THE ENGINEER
SEE TYPICAL FINISHED SECTION FOR WIDTH OF DIAMOND GRINDING
SEE DETAIL FOR REMOVAL, DOWEL AND TIE BAR INSTALLATION
2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5


REVISION DATE: 5/22/13



5

STA 16+00

MATCH LINE

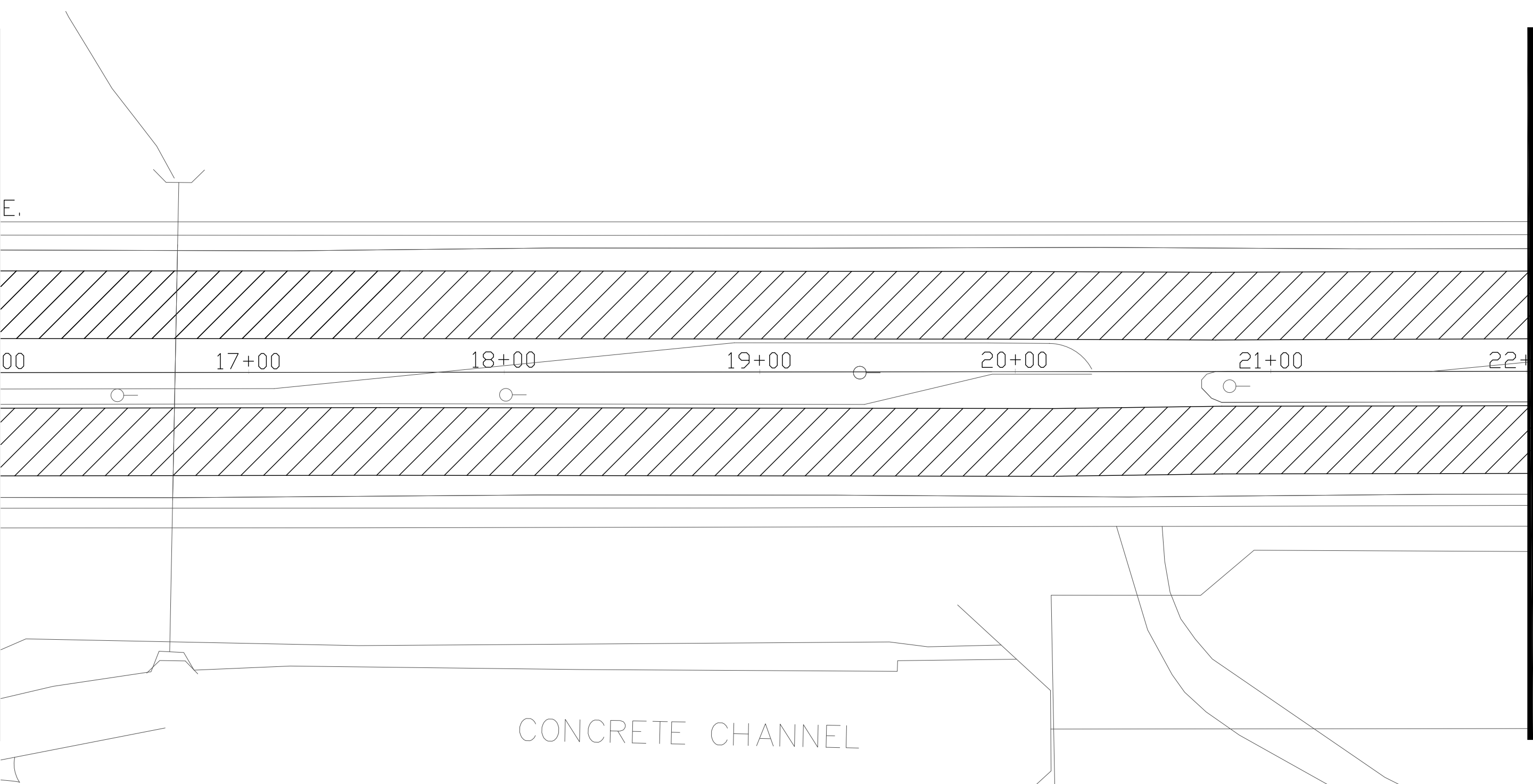
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

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AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

STA 16+00
MATCH LINE



STA 22+00
MATCH LINE

5

REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE (CTH Y)


COUNTY: MILWAUKEE

PLAN, STA. 16+00 TO 22+00

SCALE: 1"=40'

SHEET NO:

E

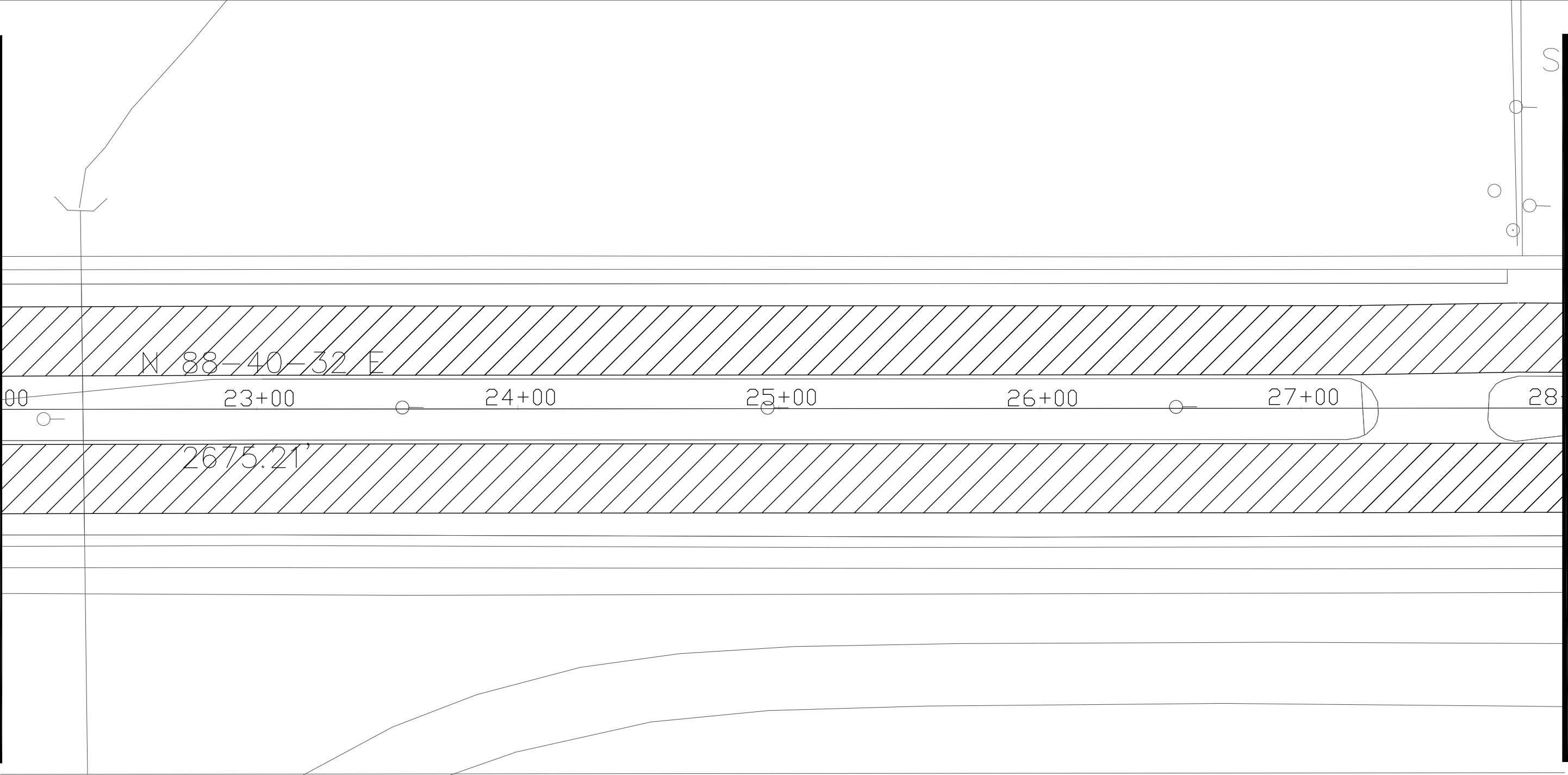
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

1. CONCRETE PAVEMENT REPLACEMENT SHES SHALL AS DIRECTED BY THE ENGINEER
SEE TYPICAL FINISHED SECTION FOR WIDTH OF DIAMOND GRINDING
SEE DETAIL FOR REMOVAL, DOWEL AND TIE BAR INSTALLATION
2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 22+00



MATCH LINE STA 28+00

5

REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE (CTH Y)


COUNTY: MILWAUKEE

PLAN, STA. 22+00 TO 28+00

SCALE: 1"=40'

SHEET NO:

E

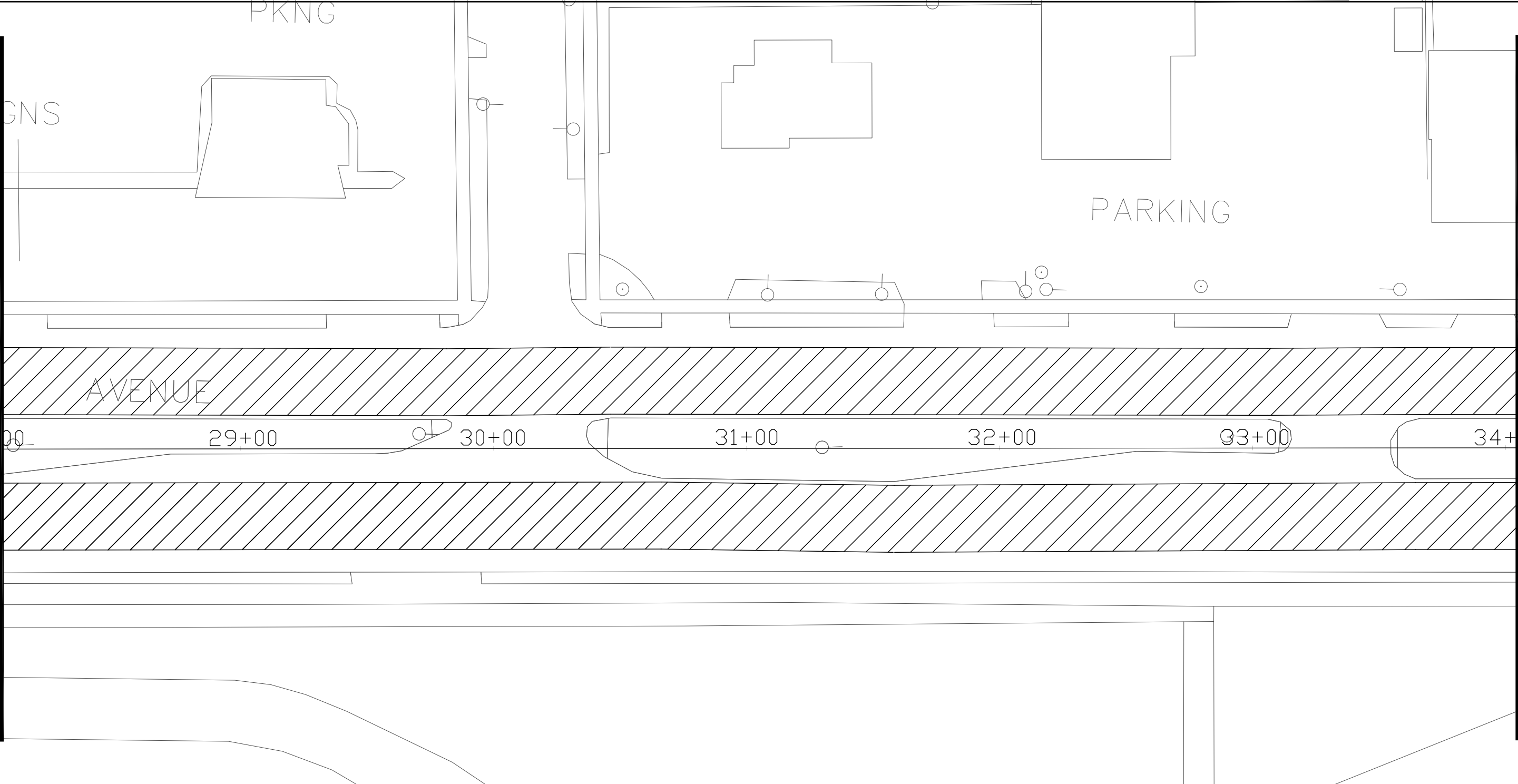
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

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SEE DETAIL FOR REMOVAL, DOWEL AND TIE BAR INSTALLATION
2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 28+00



5

MATCH LINE STA 34+00

REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE (CTH Y)


COUNTY: MILWAUKEE

PLAN, STA. 28+00 TO 34+00

SCALE: 1"=40'

SHEET NO:

E

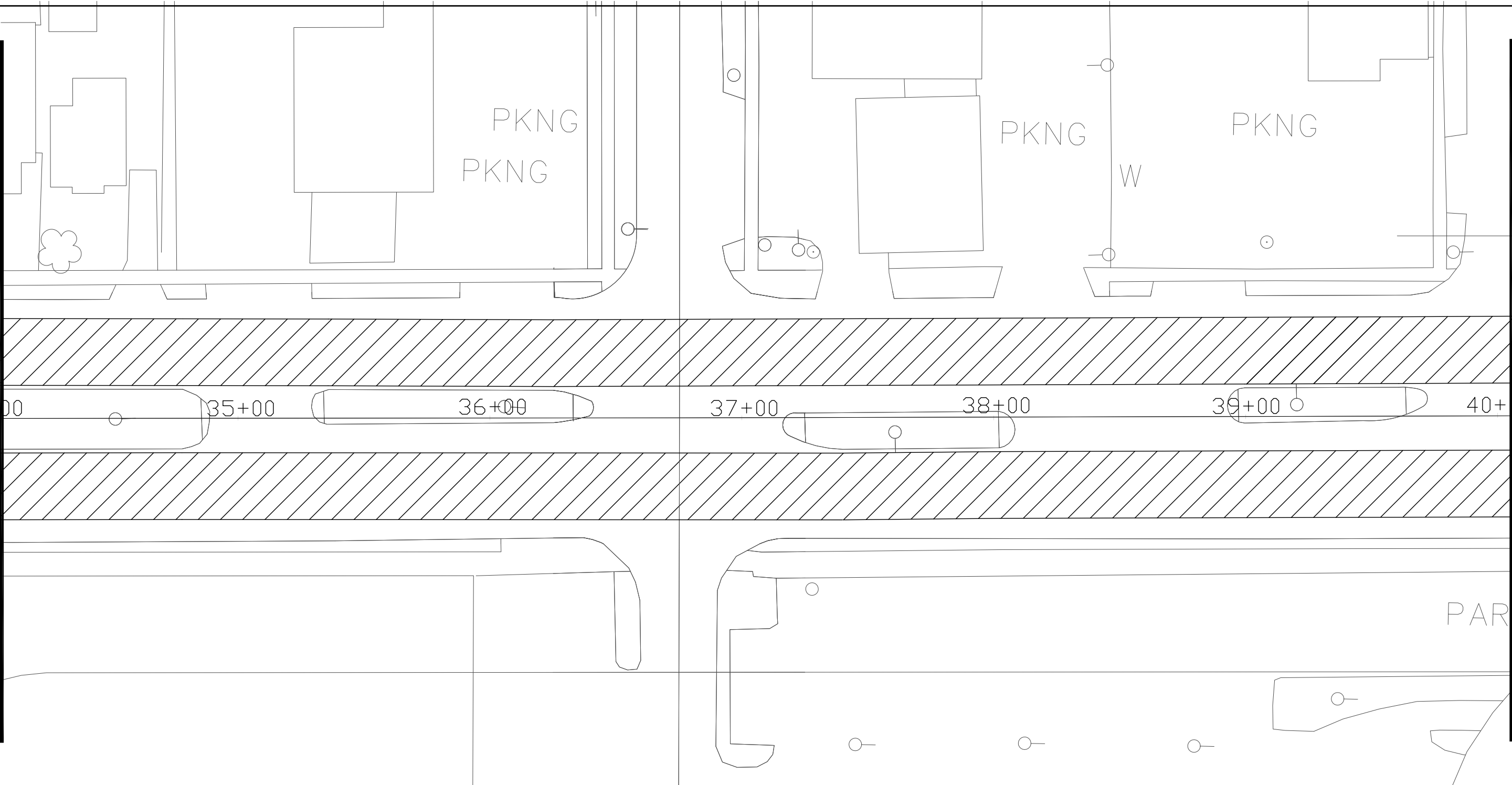
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

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SEE DETAIL FOR REMOVAL, DOWEL AND TIE BAR INSTALLATION
2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 34+00



MATCH LINE STA 40+00

5

REVISION DATE: 5/22/13

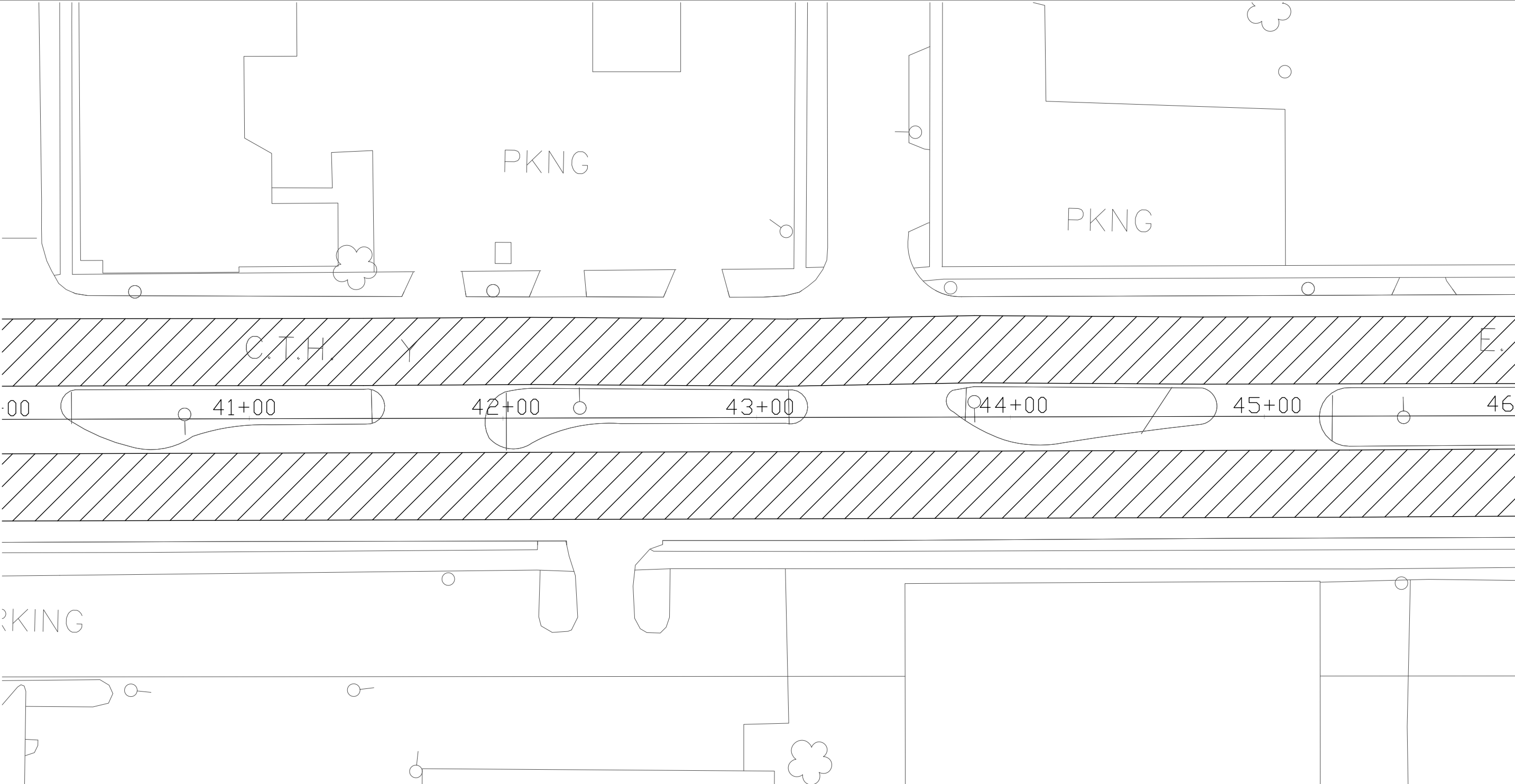
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

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SEE DETAIL FOR REMOVAL, DOWEL AND TIE BAR INSTALLATION
2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 40+00



MATCH LINE STA 46+00

5

CIT INF

REVISION DATE: 5/22/13

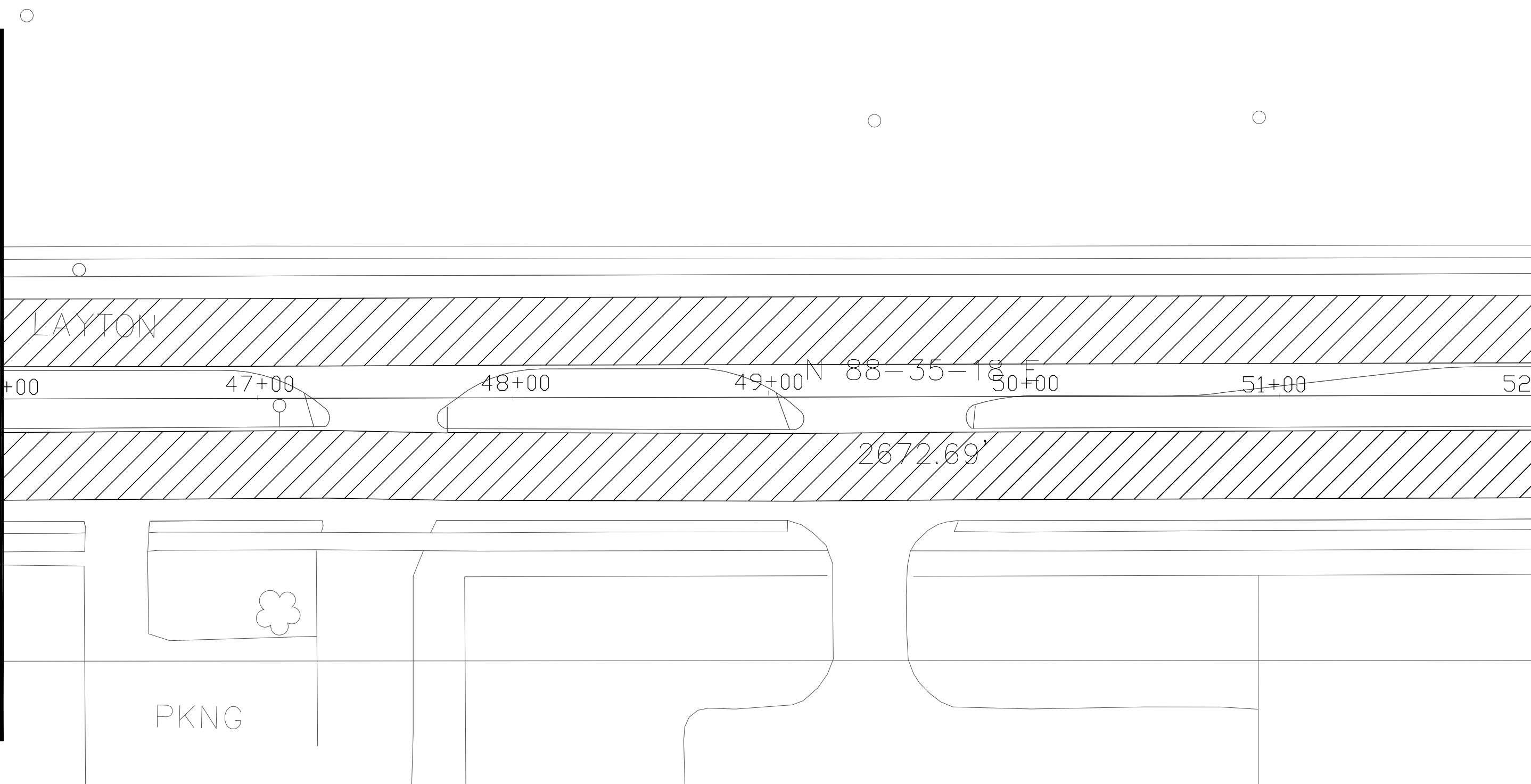
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

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2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 46+00



MATCH LINE STA 52+00

5

REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE (CTH Y)

COUNTY: MILWAUKEE

PLAN, STA. 46+00 TO 52+00

SCALE: 1"=40'

SHEET NO:

E

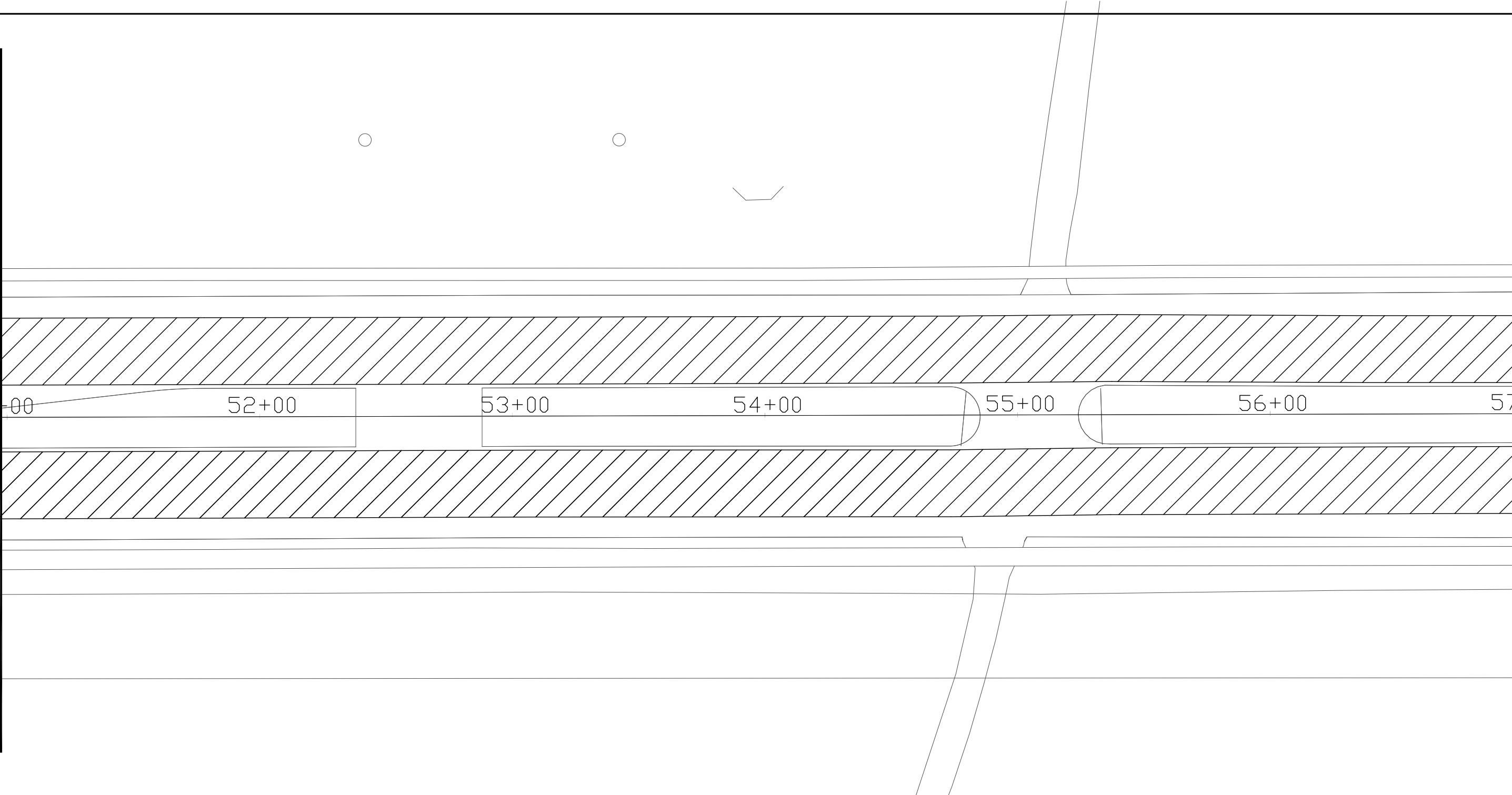
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

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2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 52+00



MATCH LINE STA 58+00

5

CIT INF

REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE (CTH Y)


COUNTY: MILWAUKEE

PLAN, STA. 52+00 TO 58+00

SCALE: 1"=40'

SHEET NO:

E

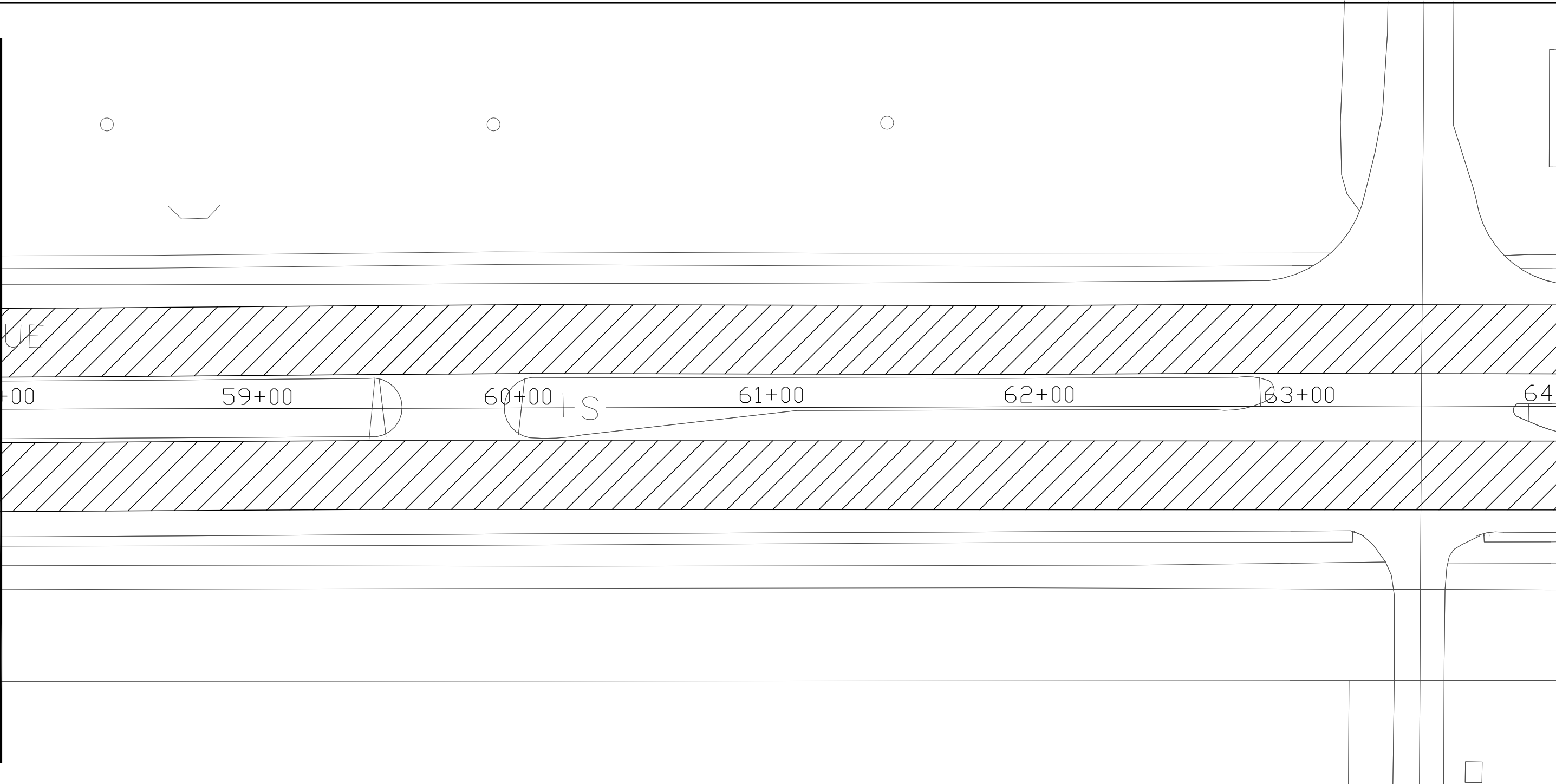
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

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SEE DETAIL FOR REMOVAL, DOWEL AND TIE BAR INSTALLATION
2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 58+00



MATCH LINE STA 64+00

5

REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE (CTH Y)

COUNTY: MILWAUKEE

PLAN, STA. 58+00 TO 64+00

SCALE: 1"=40'

SHEET NO:

E

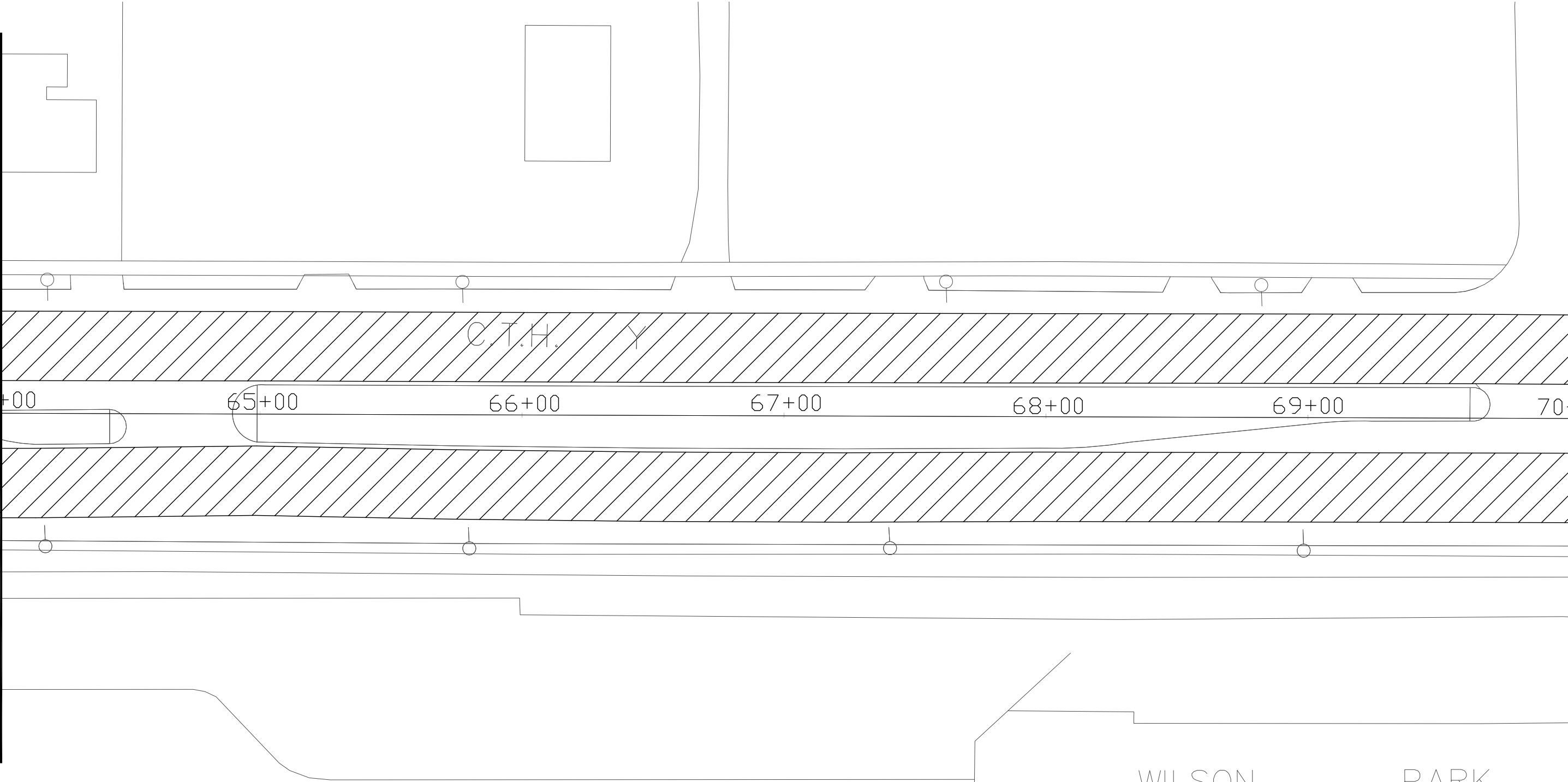
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

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SEE DETAIL FOR REMOVAL, DOWEL AND TIE BAR INSTALLATION
2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 64+00



MATCH LINE STA 70+00

5

REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE (CTH Y)

COUNTY: MILWAUKEE


PLAN, STA. 64+00 TO 70+00

SCALE: 1"=40'

SHEET NO:

E

WILSON PARK

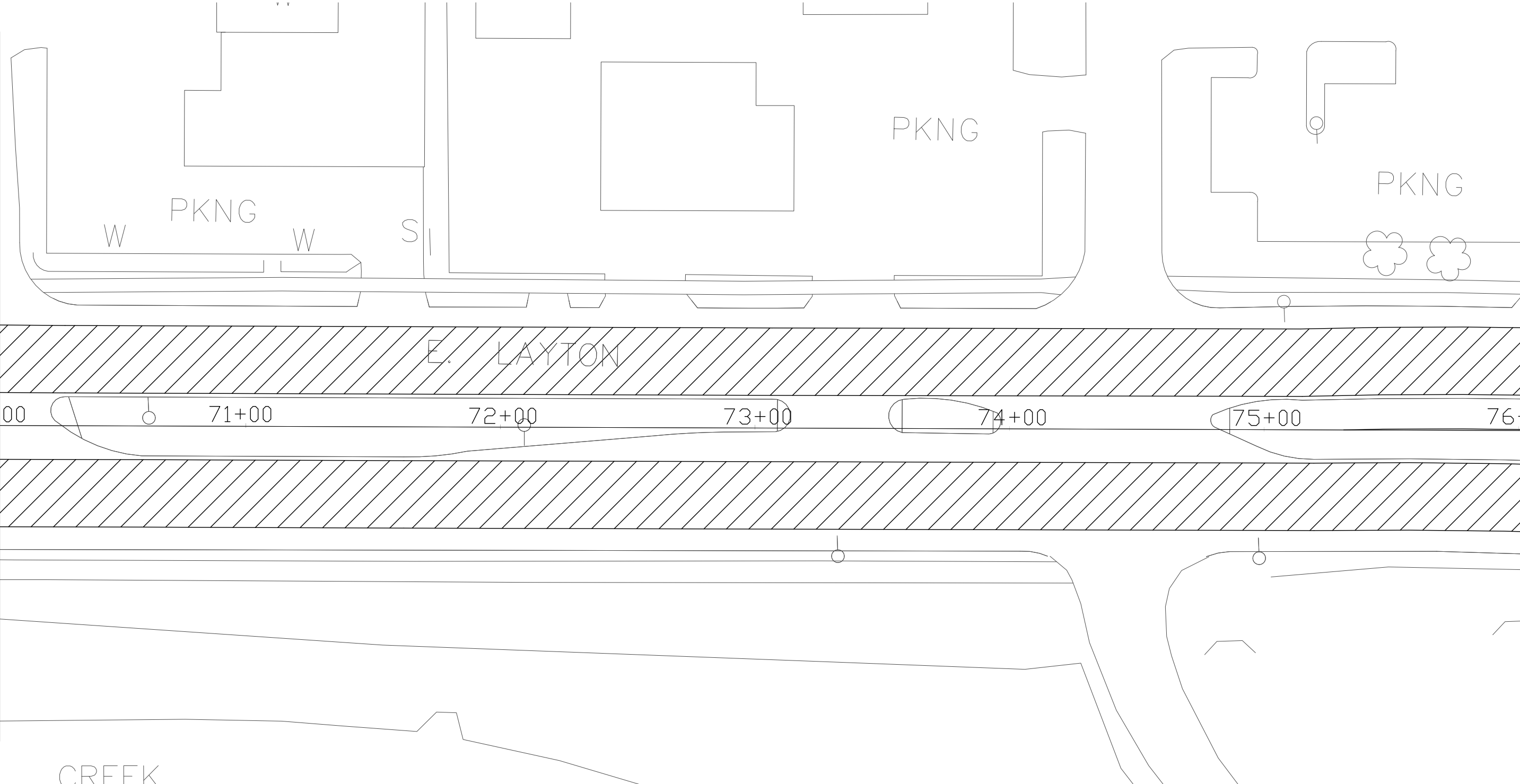
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

1. CONCRETE PAVEMENT REPLACEMENT SHES SHALL AS DIRECTED BY THE ENGINEER
SEE TYPICAL FINISHED SECTION FOR WIDTH OF DIAMOND GRINDING
SEE DETAIL FOR REMOVAL, DOWEL AND TIE BAR INSTALLATION
2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 70+00



MATCH LINE STA 76+00



5

CIT INF

REVISION DATE: 5/22/13

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE (CTH Y)


COUNTY: MILWAUKEE

PLAN, STA. 70+00 TO 76+00

SCALE: 1"=40'

SHEET NO:

E

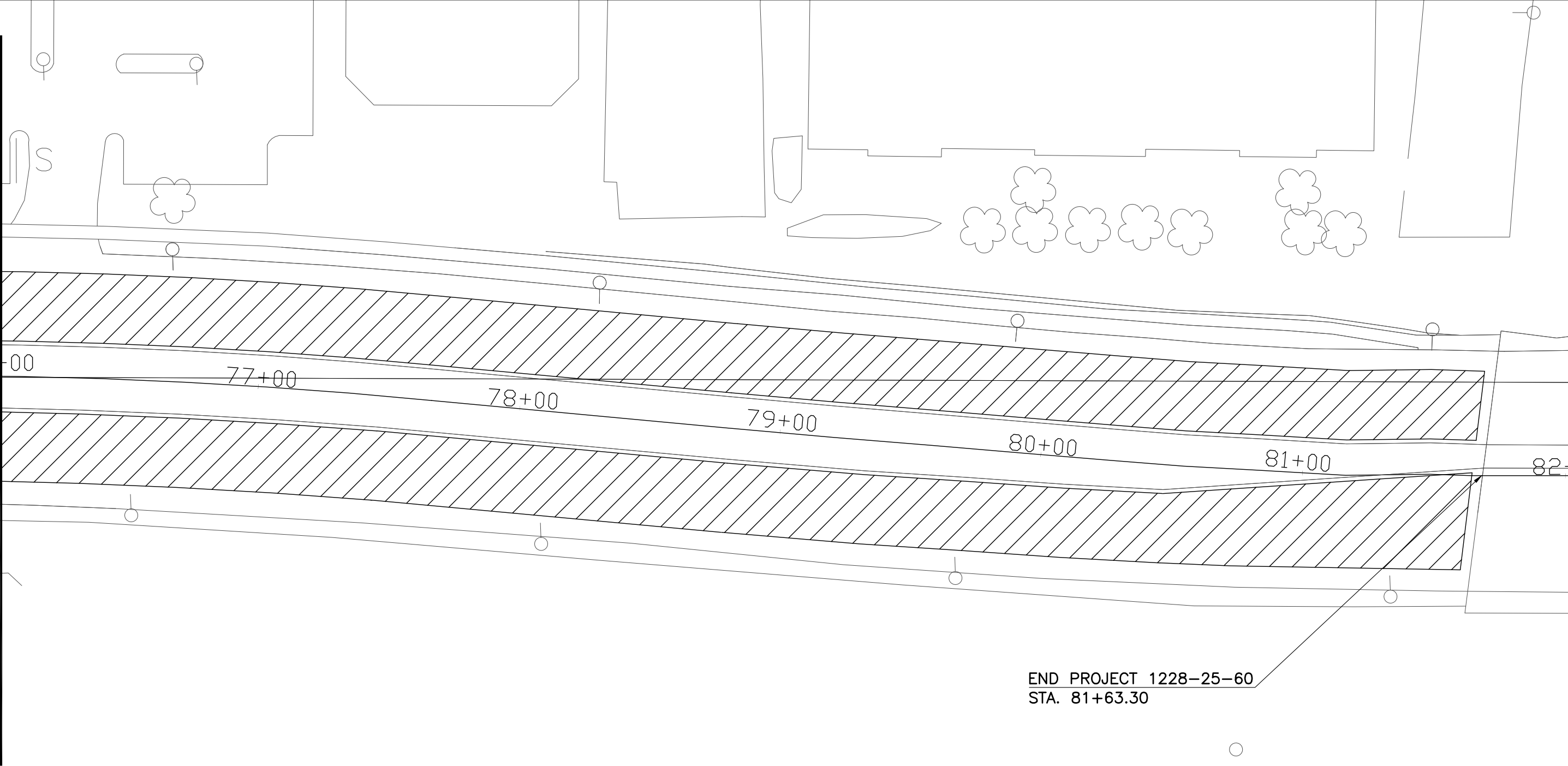
 CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING

NOTES

1. CONCRETE PAVEMENT REPLACEMENT SHES SHALL AS DIRECTED BY THE ENGINEER
SEE TYPICAL FINISHED SECTION FOR WIDTH OF DIAMOND GRINDING
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2. SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
AND S.D.D. TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
FOR TRAFFIC CONTROL DETAILS

5

MATCH LINE STA 76+00



MATCH LINE STA 82+00

5

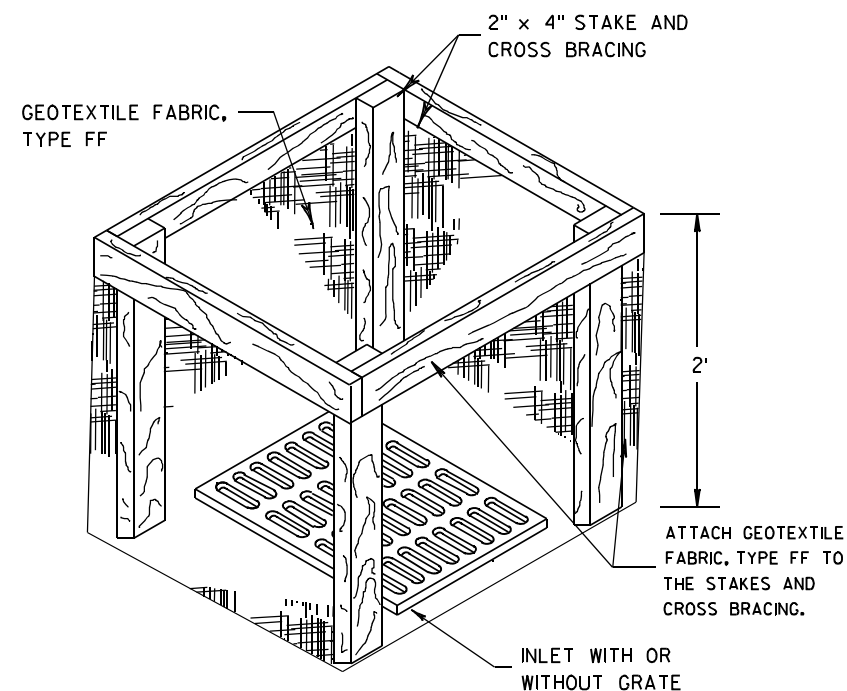
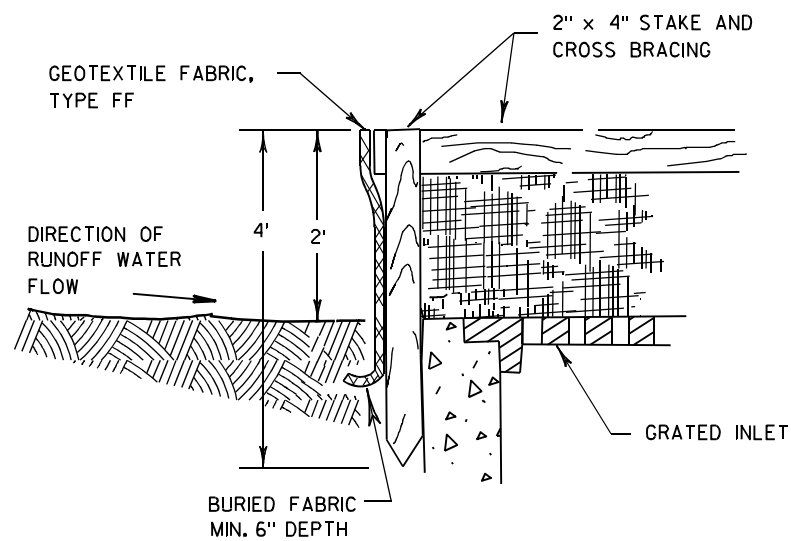
CIT 1 INF

REVISION DATE: 5/22/13

END PROJECT 1228-25-60
STA. 81+63.30

Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
13C18-01A	CONCRETE PAVEMENT JOINTING
13C18-01D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15C05-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M. P. H. OR LESS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15D12-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M. P. H.
15D20-01	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY



INLET PROTECTION, TYPE A

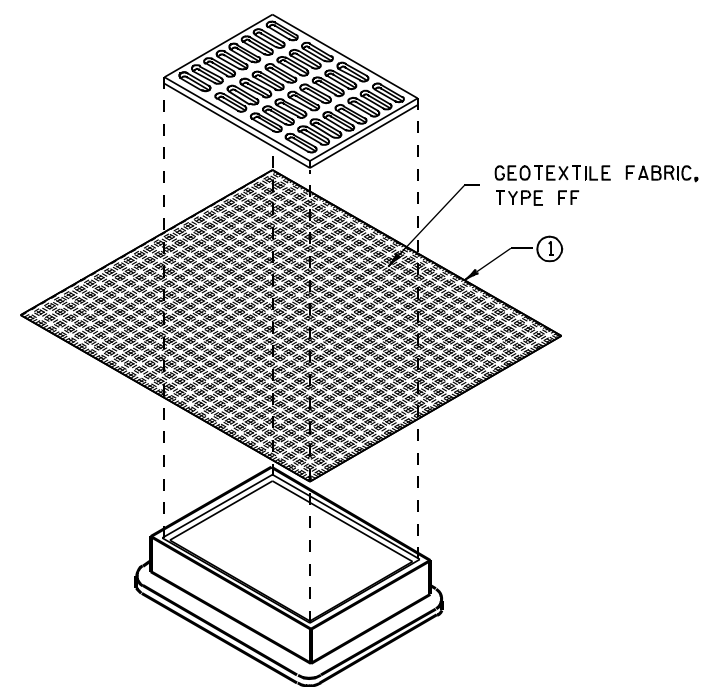
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

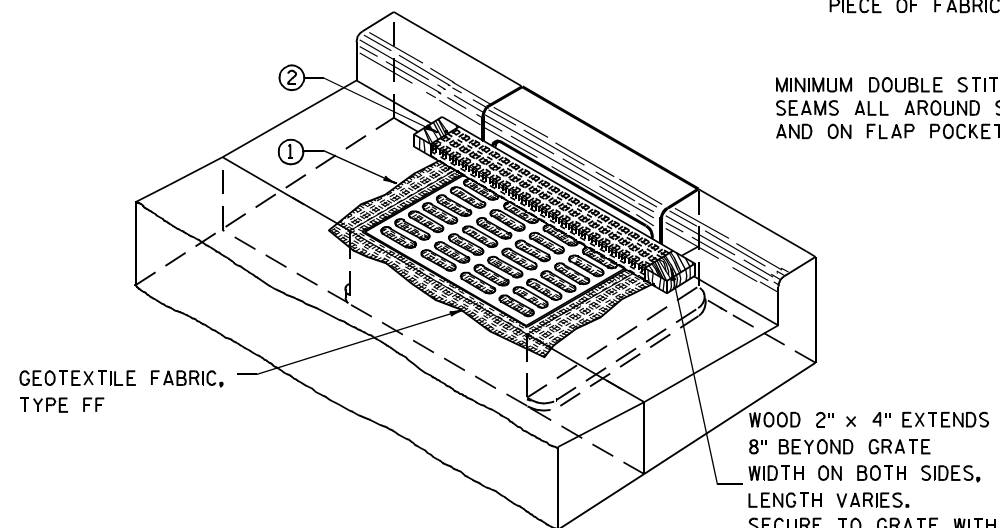
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

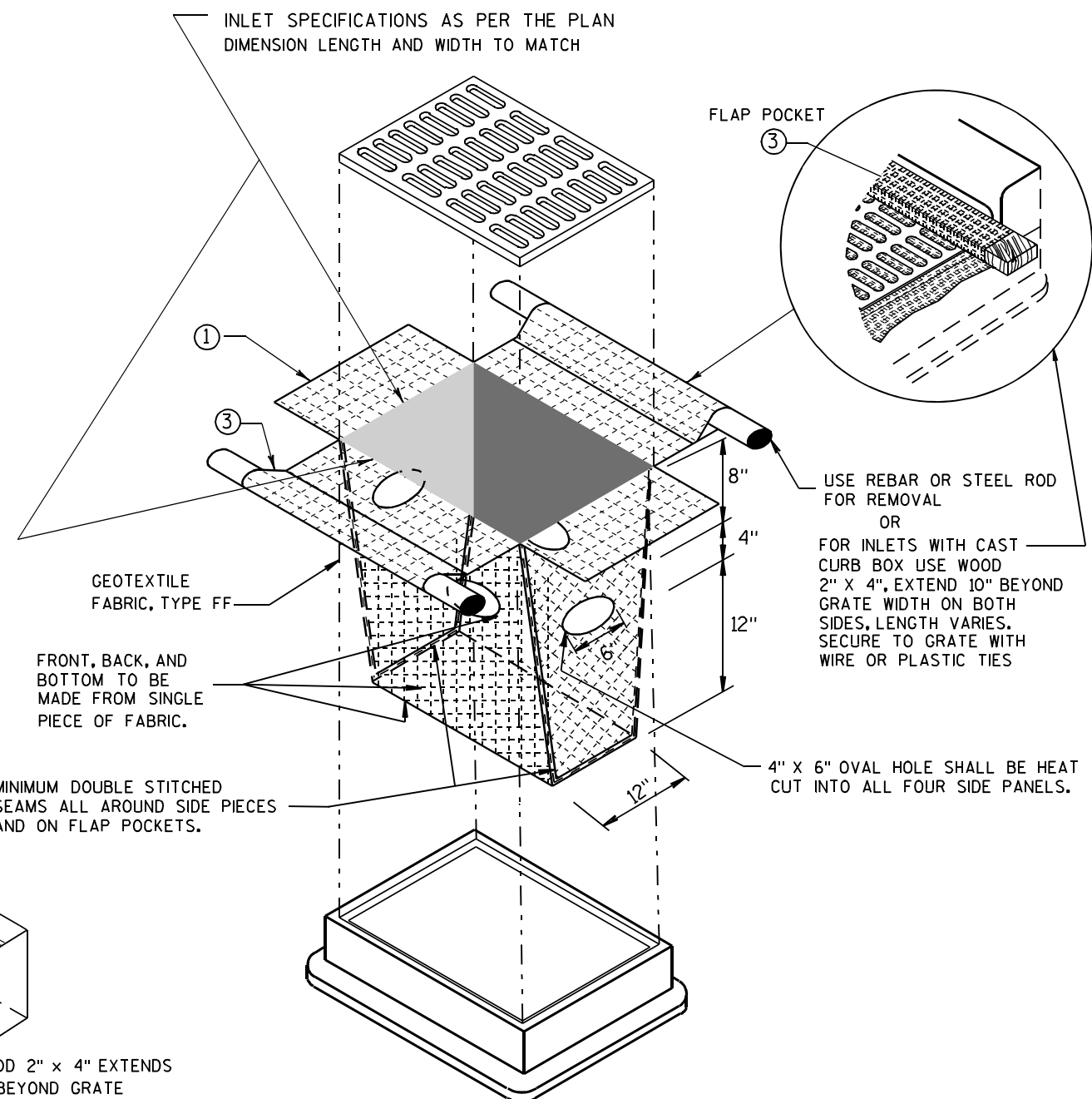
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLower THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



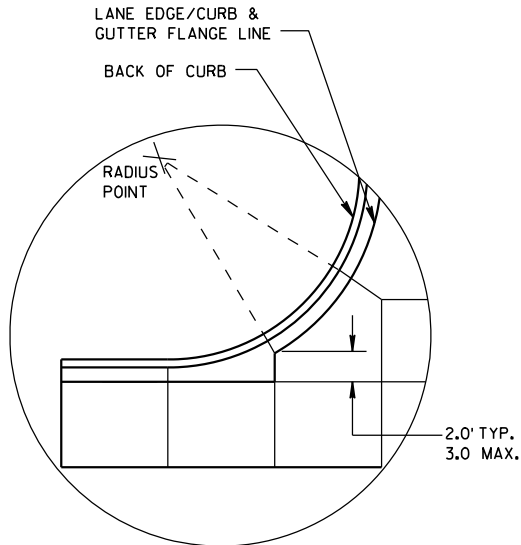
INLET PROTECTION, TYPE D

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

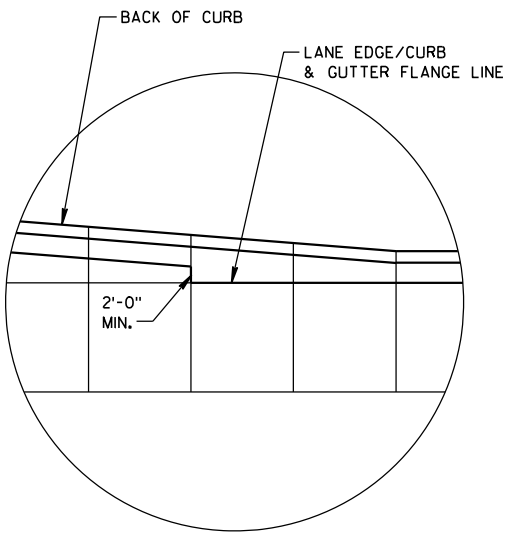
**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

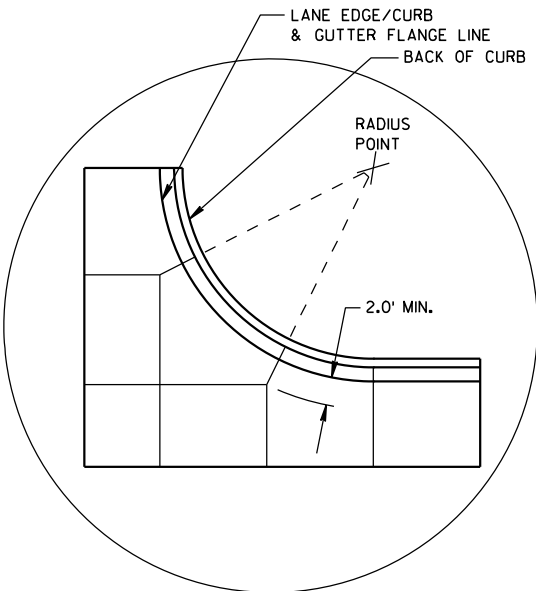
APPROVED
10/16/02 /S/ Beth Cannestra
DATE
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER



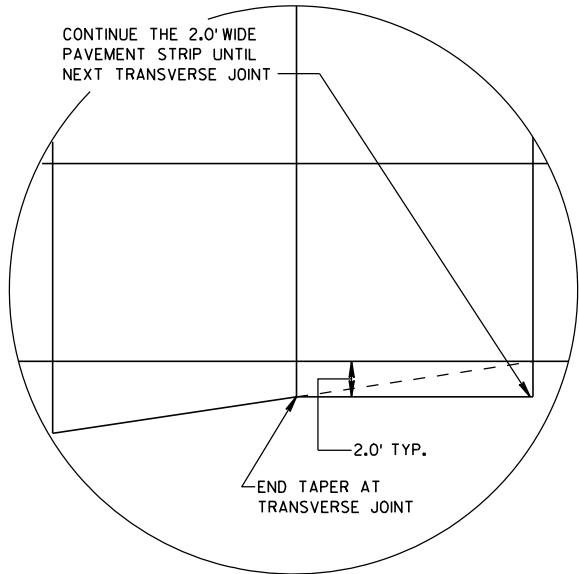
DETAIL "A"



DETAIL "B"



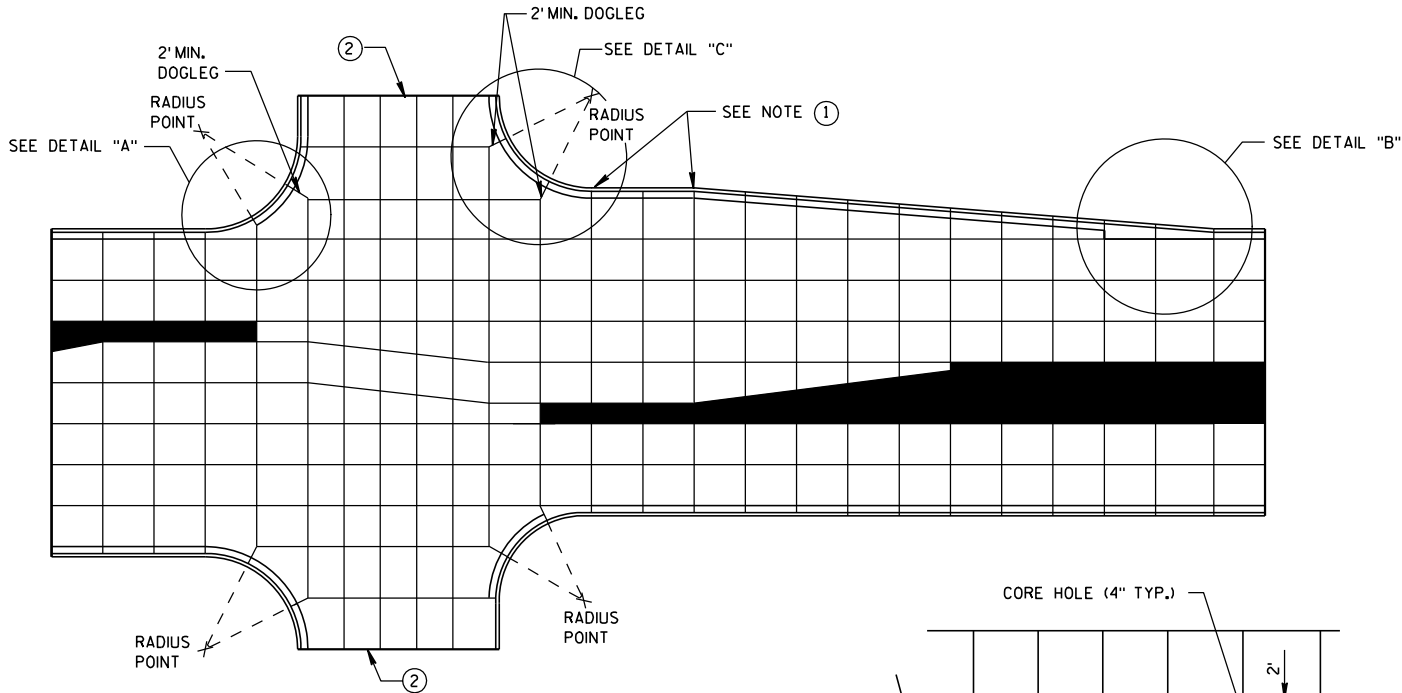
DETAIL "C"



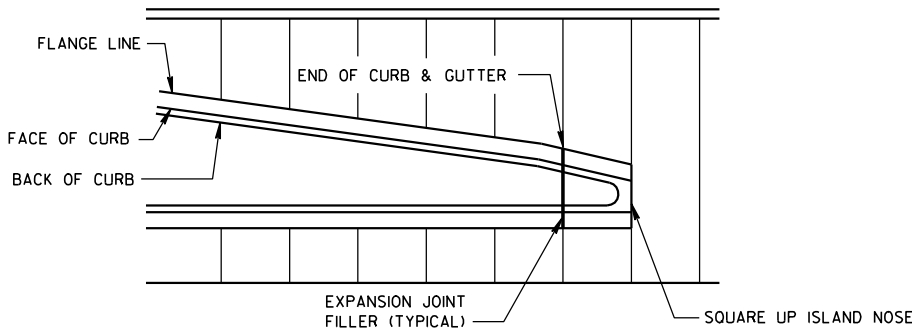
DETAIL "D"

GENERAL NOTES

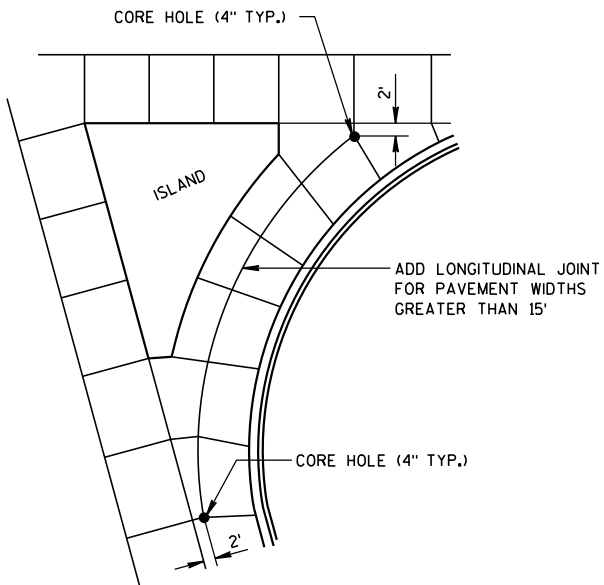
- THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.
- ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.
- CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.
- ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.
- AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.
- SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.
- AVOID ANGLES LESS THAN 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 WITH EDGE OF RADIUS.
 3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



STANDARD INTERSECTION



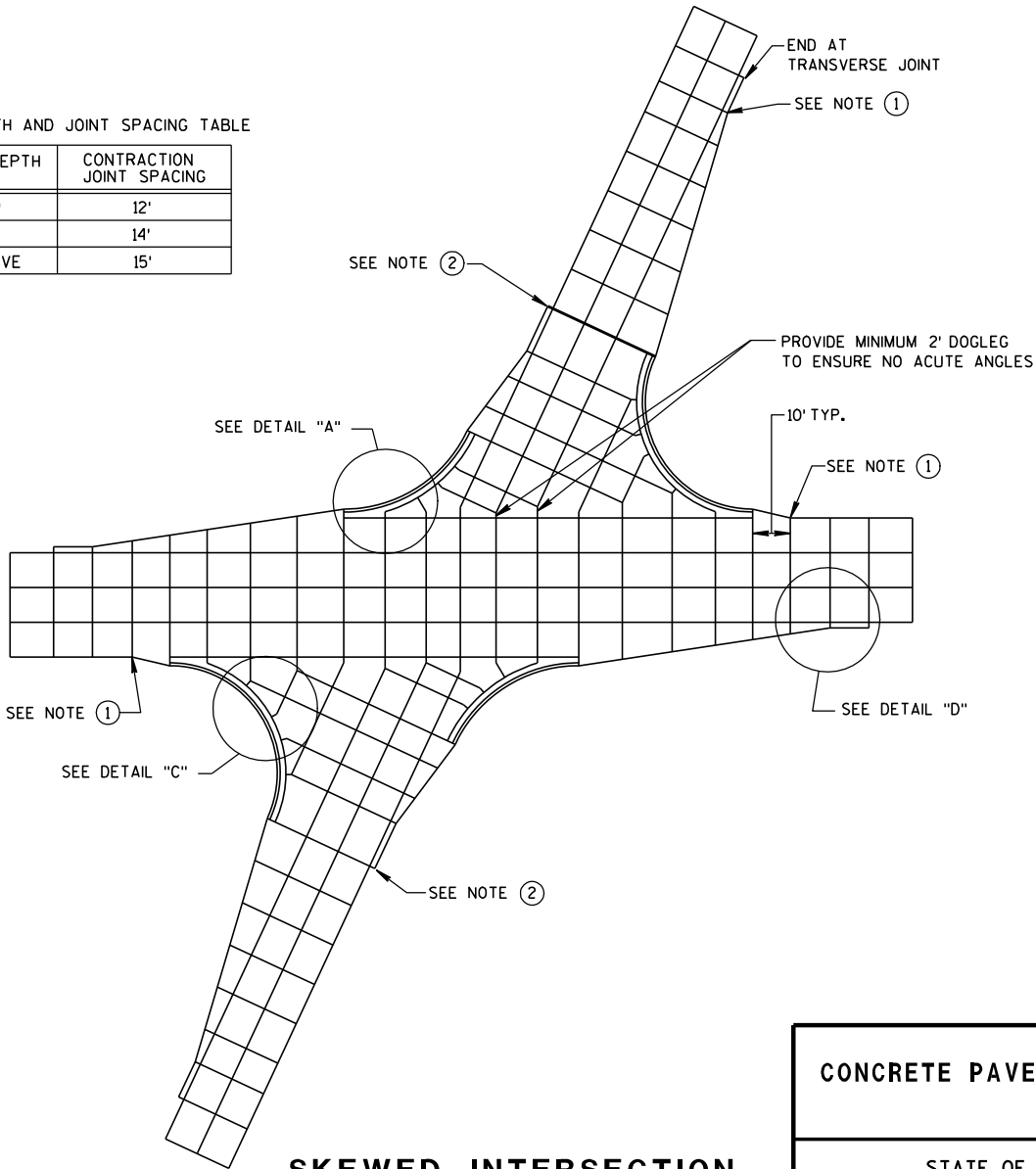
APPROACH TO MEDIAN



LARGE RIGHT TURN

PAVEMENT DEPTH AND JOINT SPACING TABLE

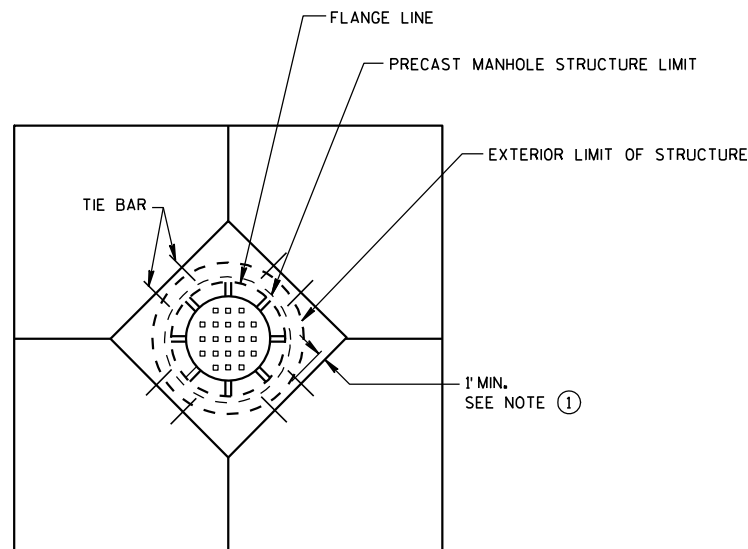
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 1/2"	12'
7", 7 1/2"	14'
8" & ABOVE	15'



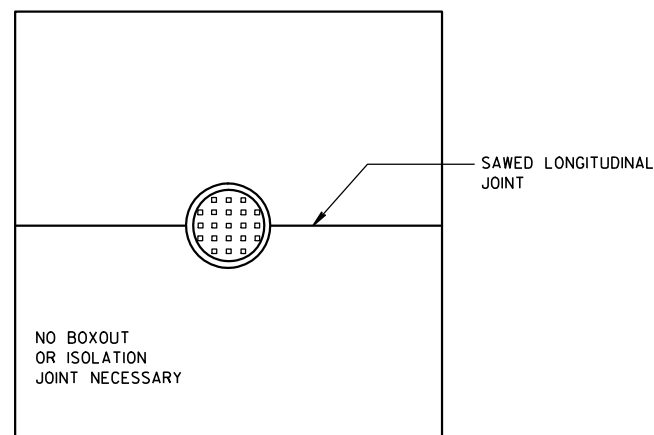
SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

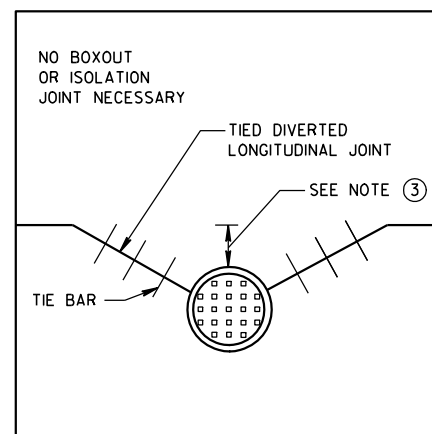
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



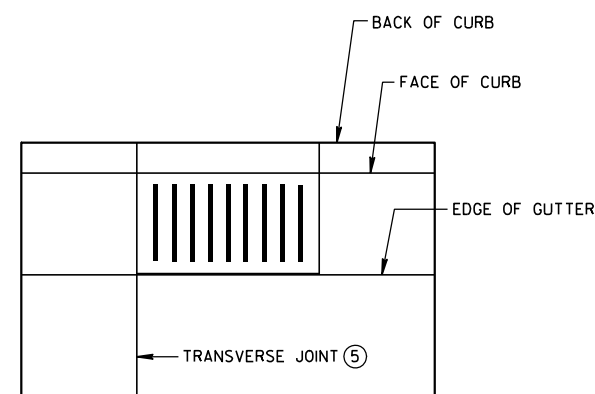
**DIAGONAL MANHOLE BOXOUT
FOR CONSTRUCTION JOINTS**



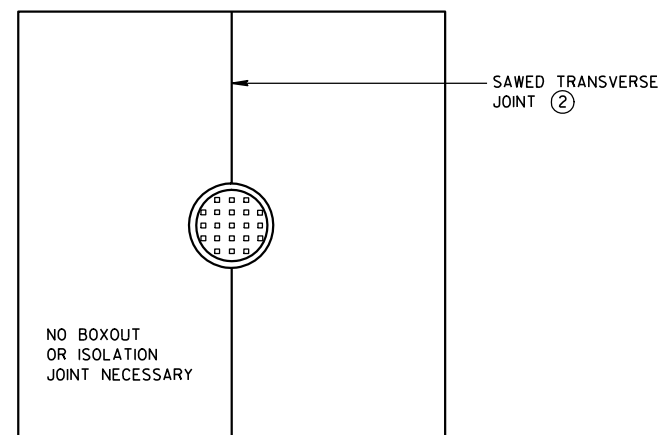
**MANHOLE WITH
LONGITUDINAL JOINT**



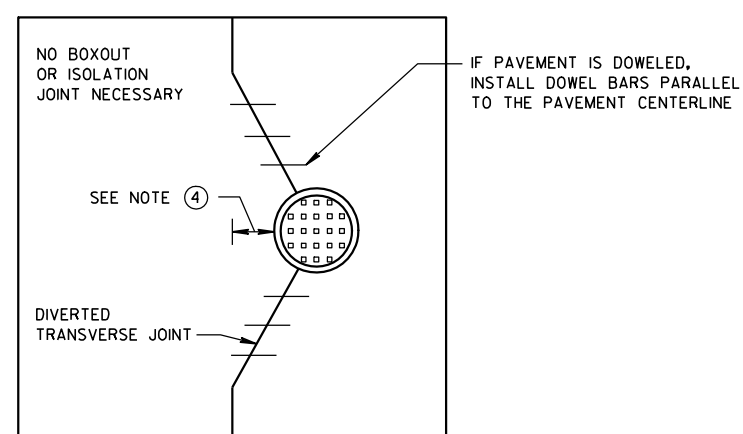
**MANHOLE WITH DIVERTED
LONGITUDINAL CONTRACTION JOINT**



**INLET WITH
TRANSVERSE JOINT**



**MANHOLE WITH
TRANSVERSE JOINT**



**MANHOLE WITH DIVERTED
TRANSVERSE CONTRACTION JOINT**

GENERAL NOTES

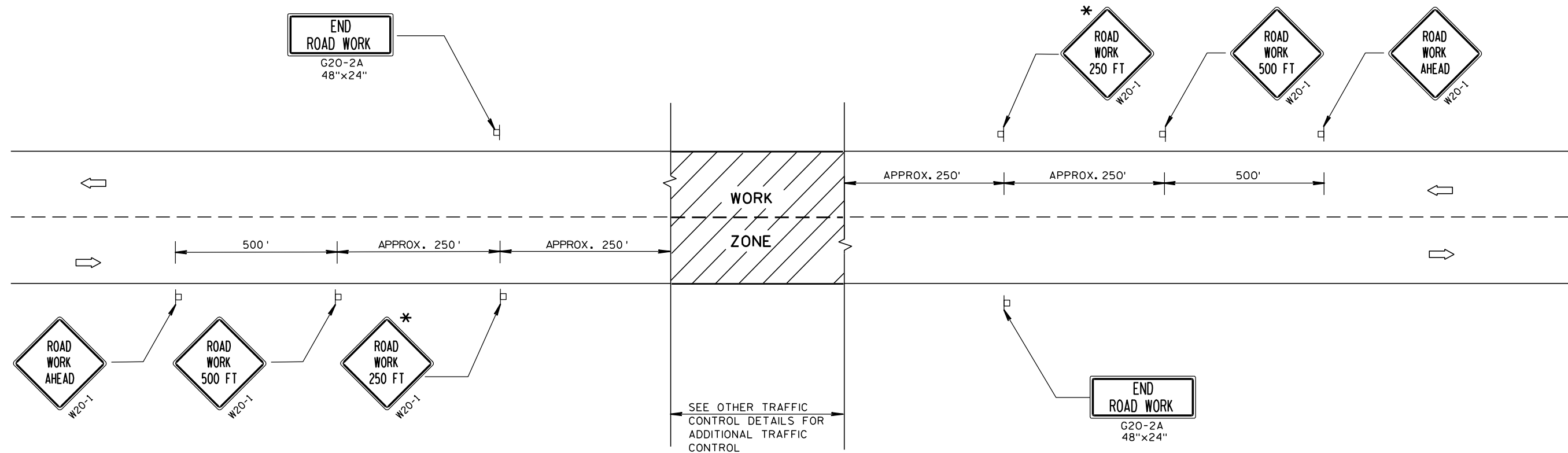
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS GREATER THAN 2 FEET, DO NOT DIVERT JOINT AND SAW LONGITUDINAL JOINT AS NORMAL. IF DISTANCE IS 2 FEET OR LESS, DIVERT LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE.
4. IF DISTANCE FROM THE EDGE OF MANHOLE TO THE NEAREST TRANSVERSE JOINT IS GREATER THAN 4 FEET, REDIRECT JOINT TO INTERSECT MANHOLE. IF DISTANCE IS 4 FEET OR LESS, PLACE REBAR REINFORCEMENT AROUND MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

**CONCRETE PAVEMENT
JOINTING AT UTILITY FIXTURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-5-2010
DATE
FHWA

/S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

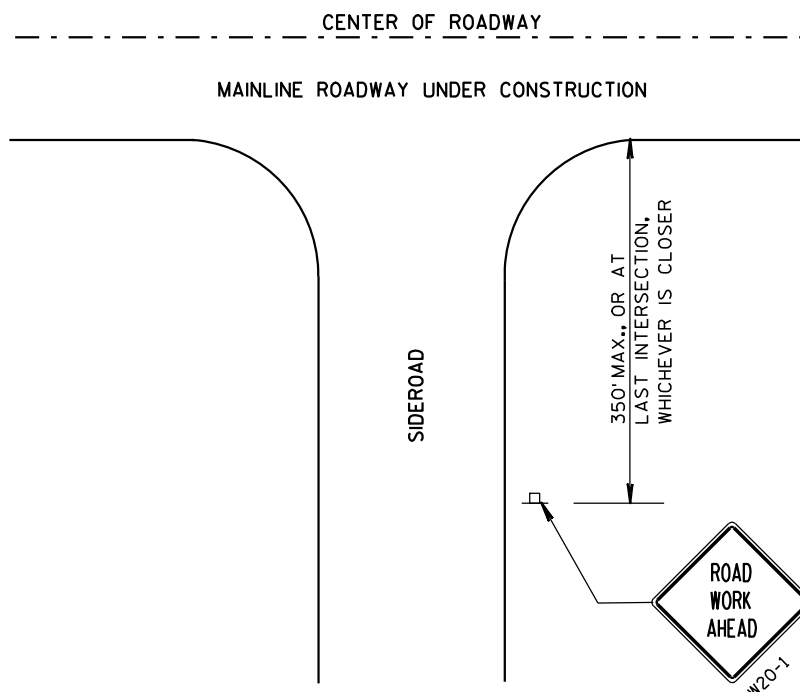
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

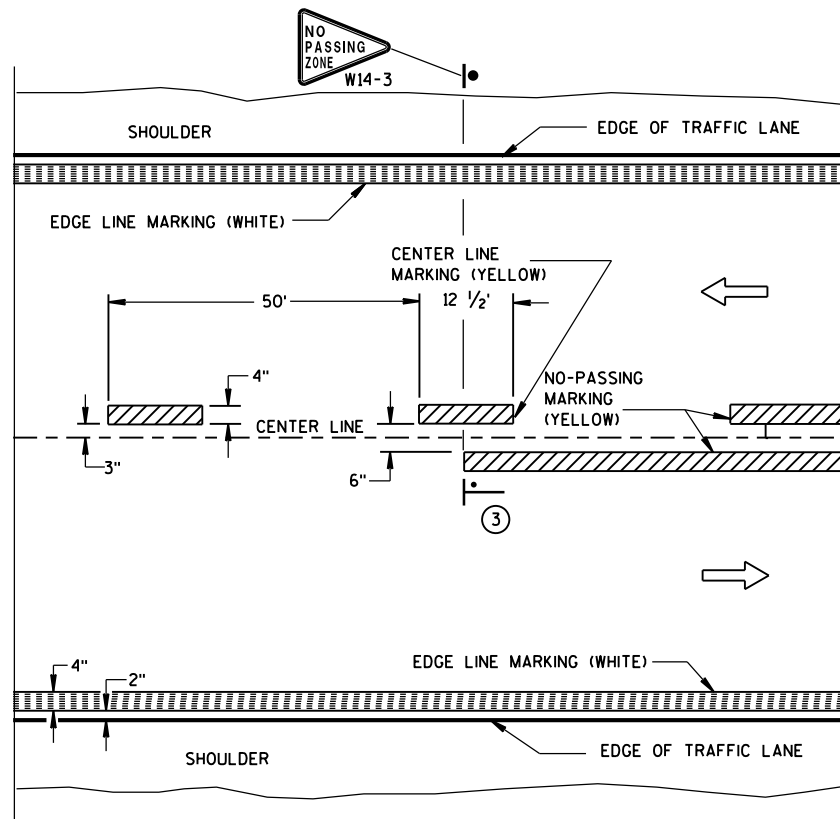
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



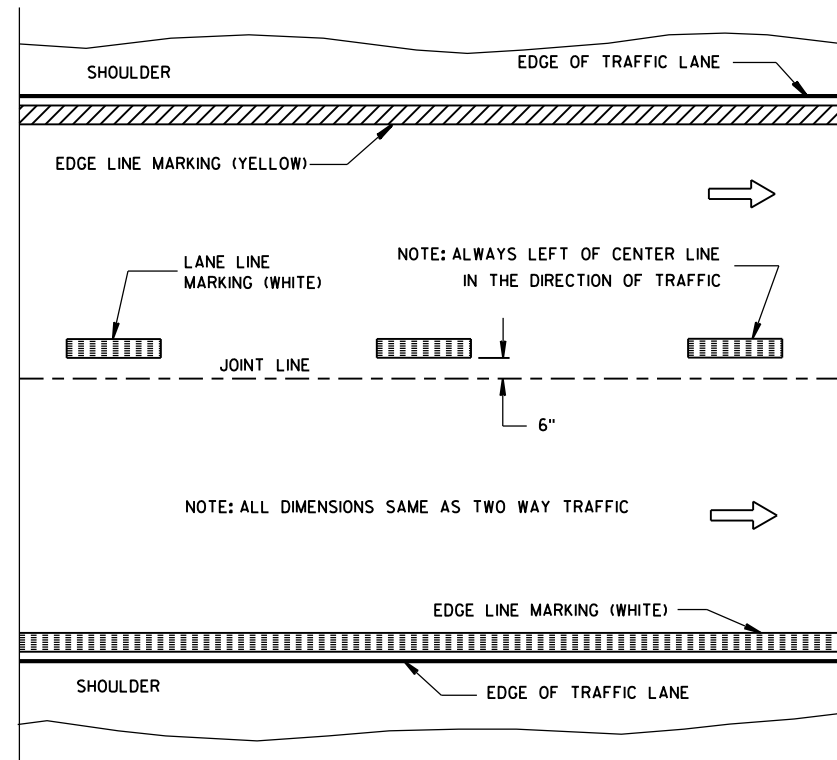
LEGEND

- POST MOUNTED SIGN
- ➡ DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/23/00 DATE	/S/ Chester J. Spang CHIEF SIGNS AND MARKING ENGINEER
FHWA	

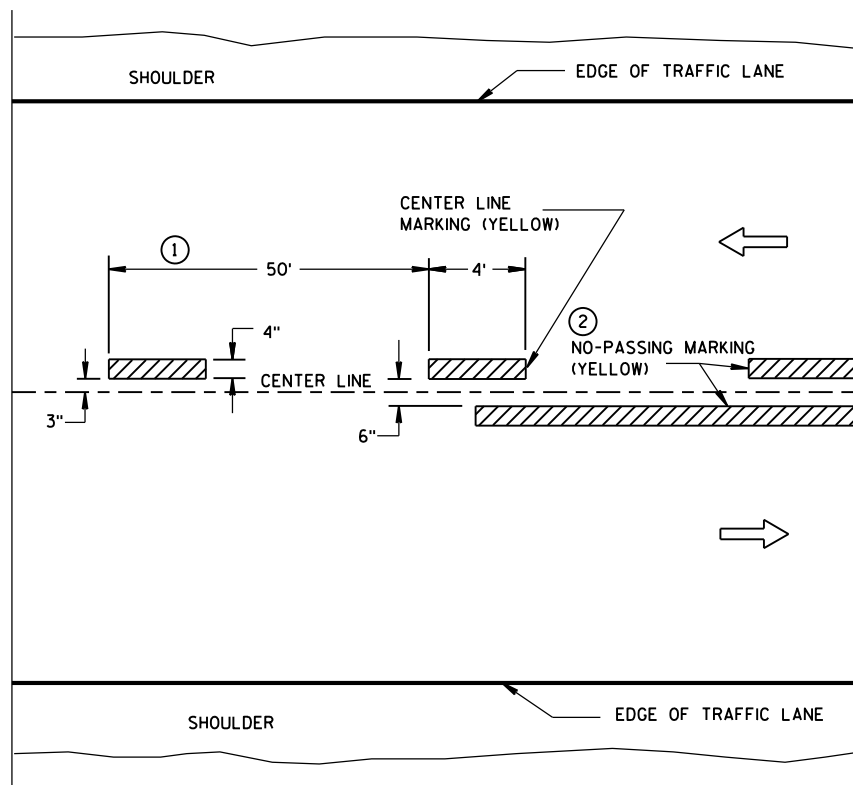


TWO WAY TRAFFIC

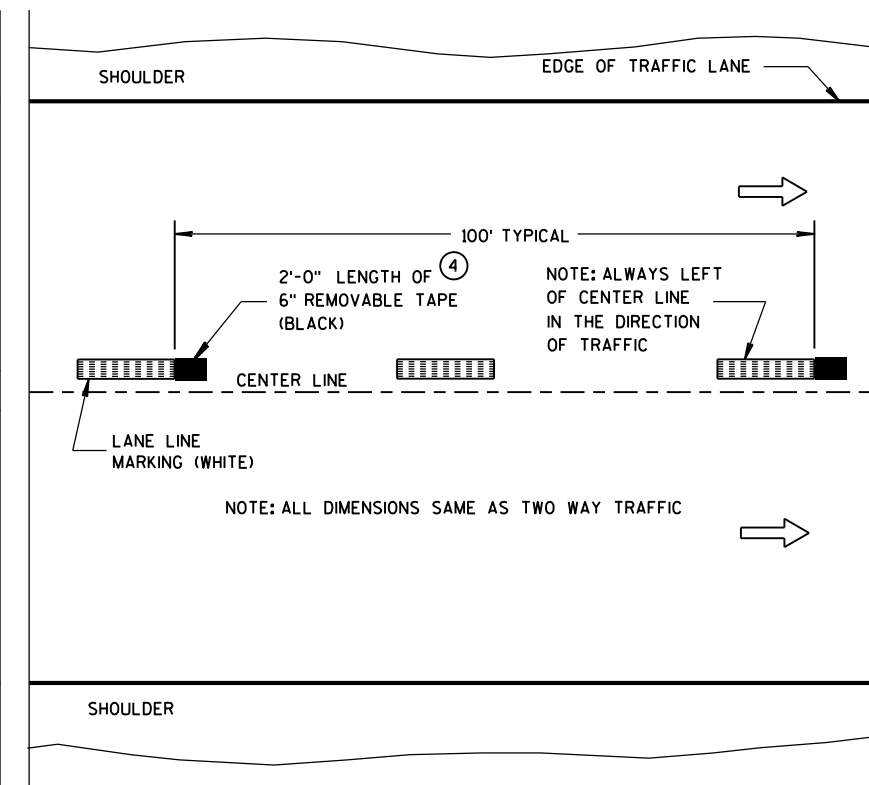


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

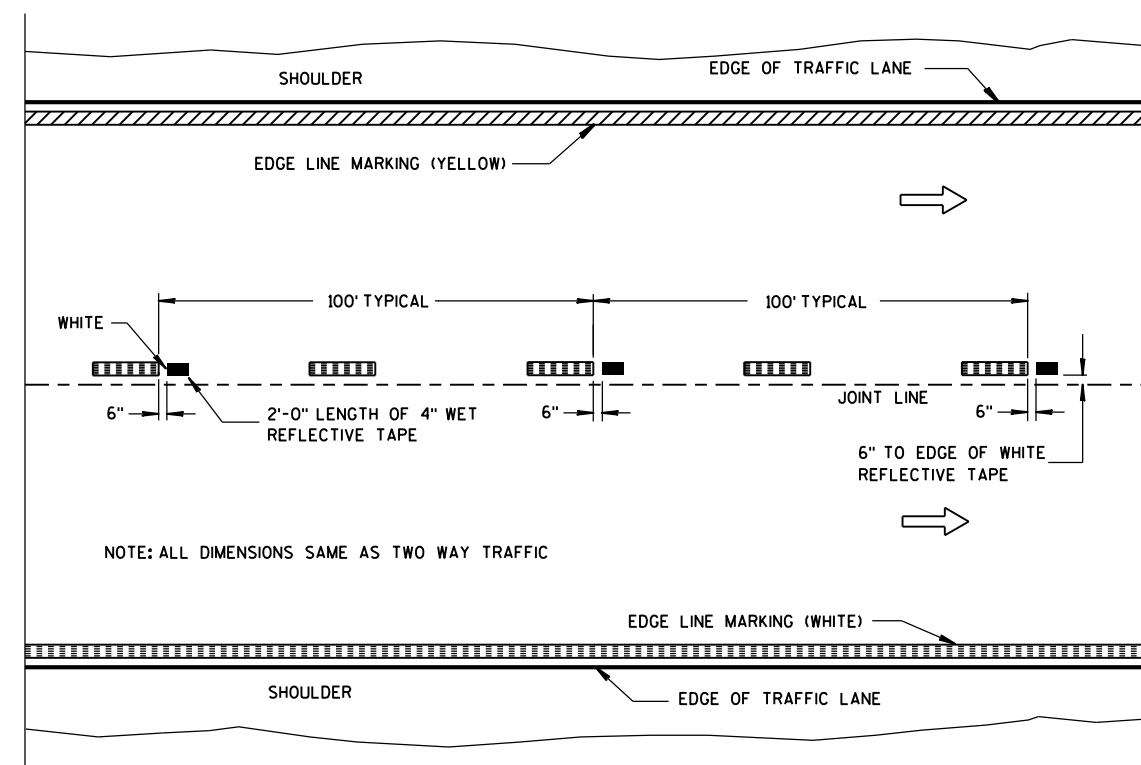
GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

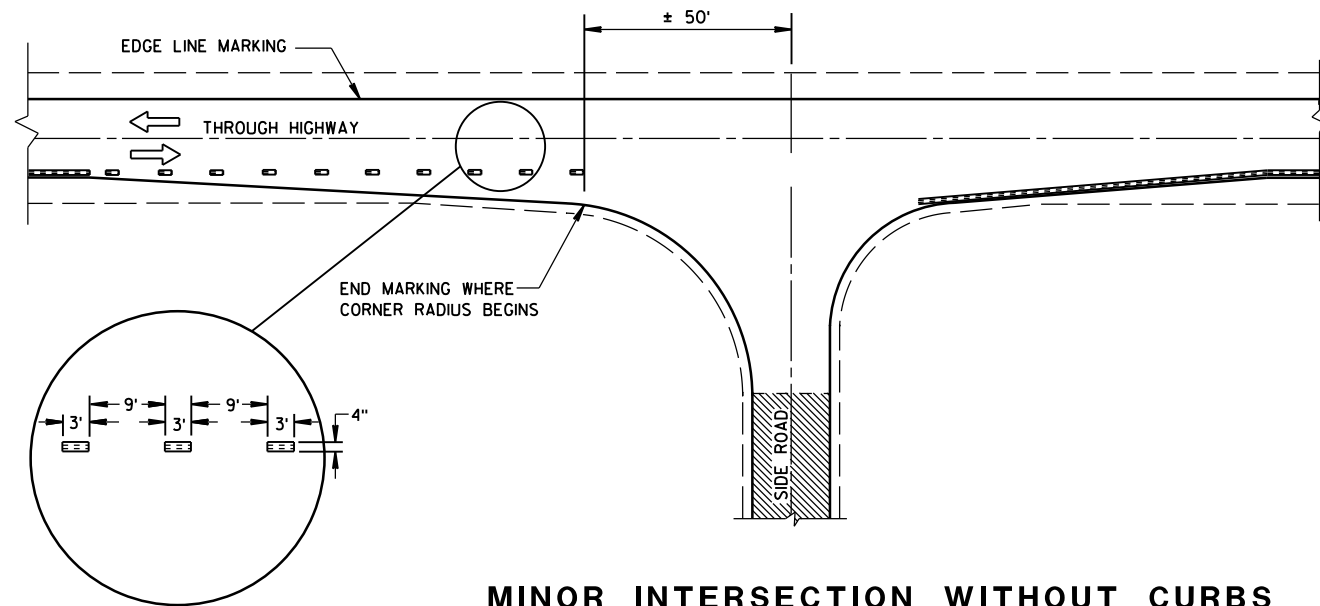
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

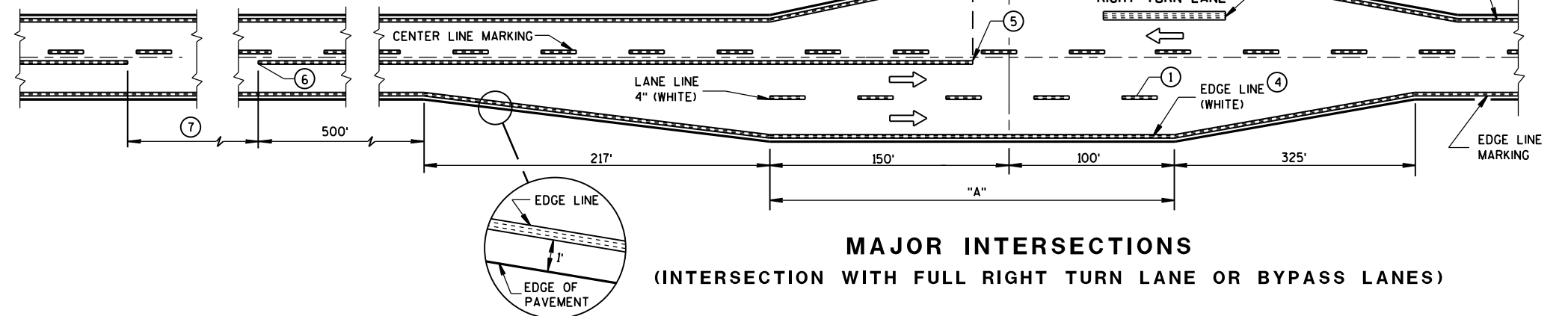
APPROVED
10-1-2012 /S/ Travis Fettes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



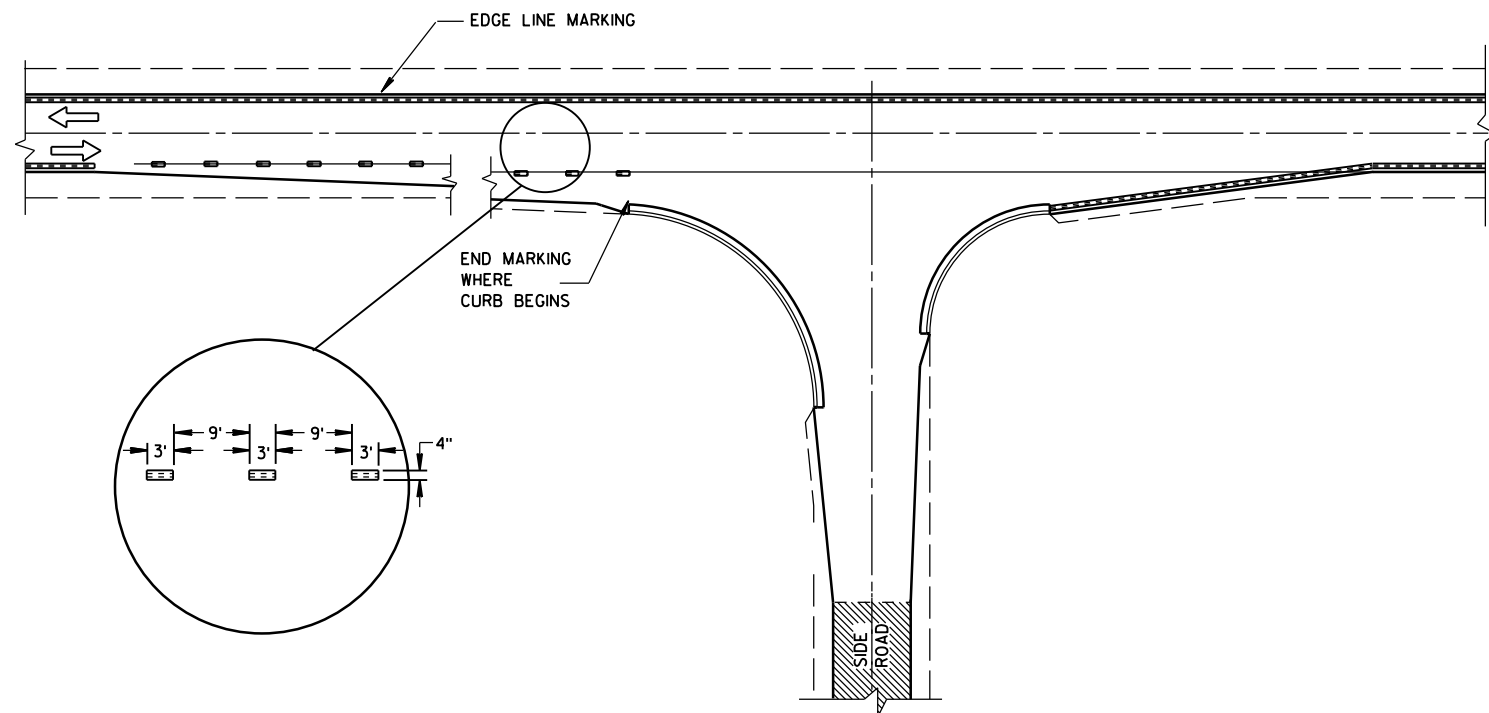
MINOR INTERSECTION WITHOUT CURBS

⑦

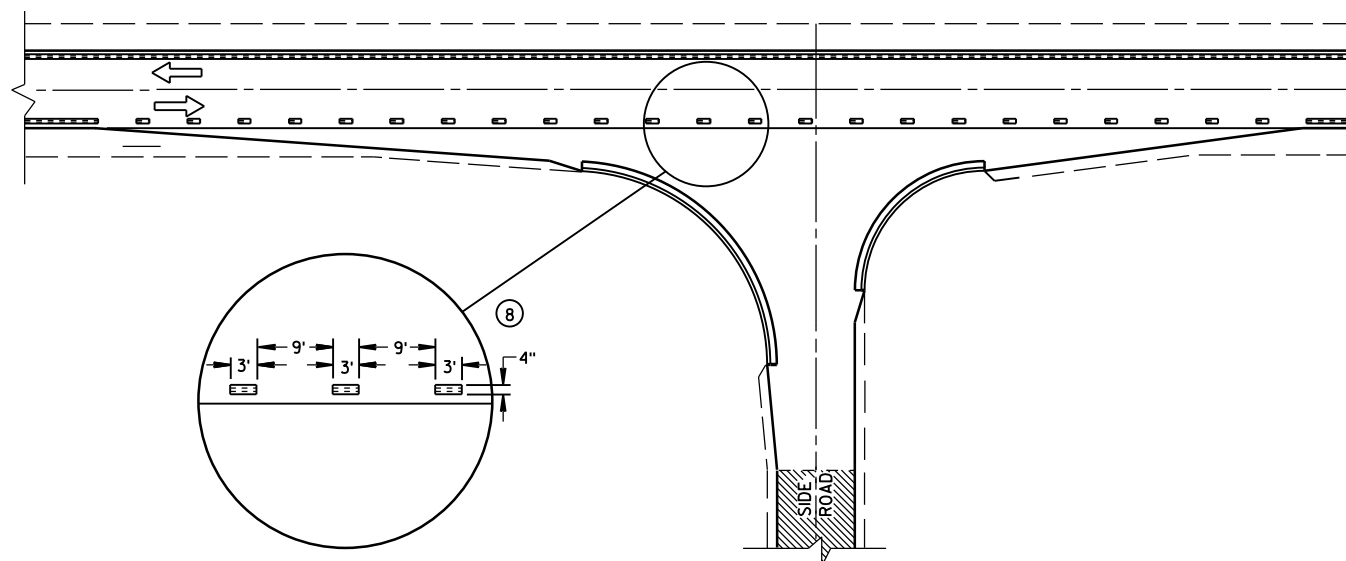
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



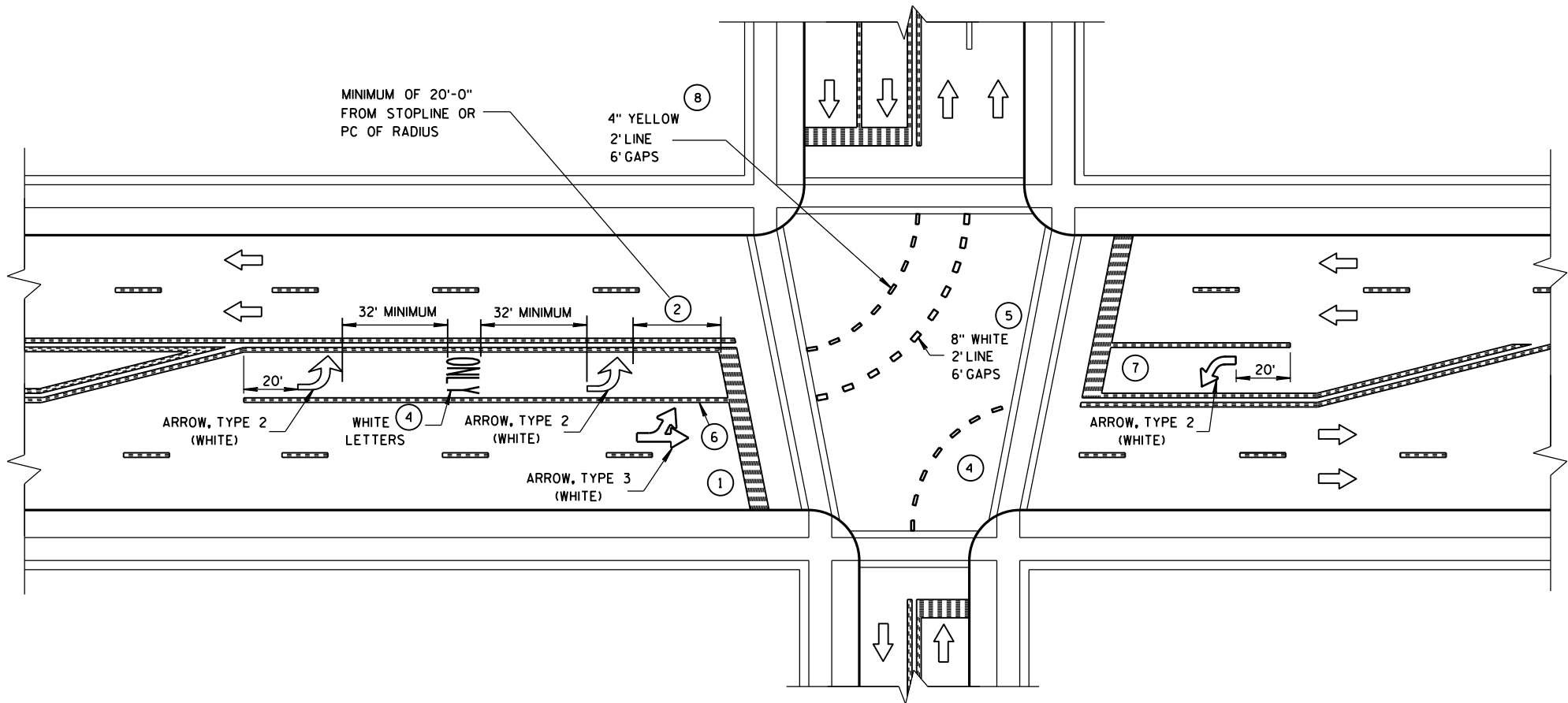
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED 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 ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(INTERSECTIONS)

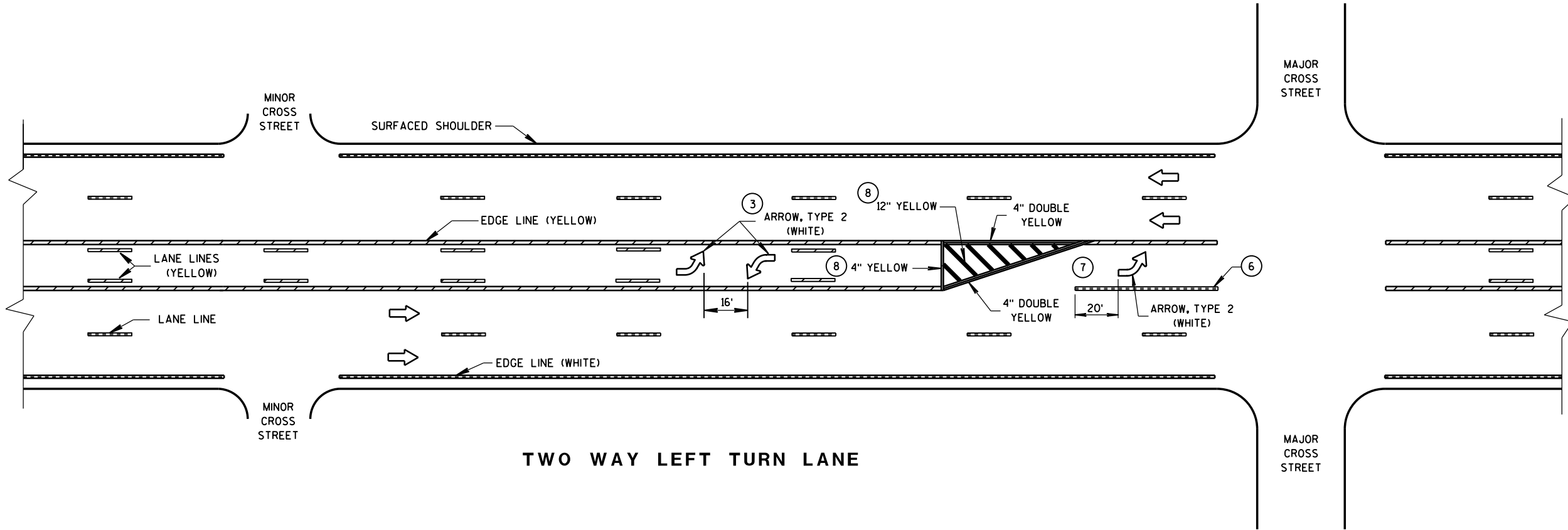
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

- ① STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES, AS APPROVED BY THE ENGINEER.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ ADD EXTRA ARROW AND ONLY PER 160' OR WHEN ON A CURVE.
- ⑤ 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
- ⑥ 8" WHITE
- ⑦ ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108'.
- ⑧ REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

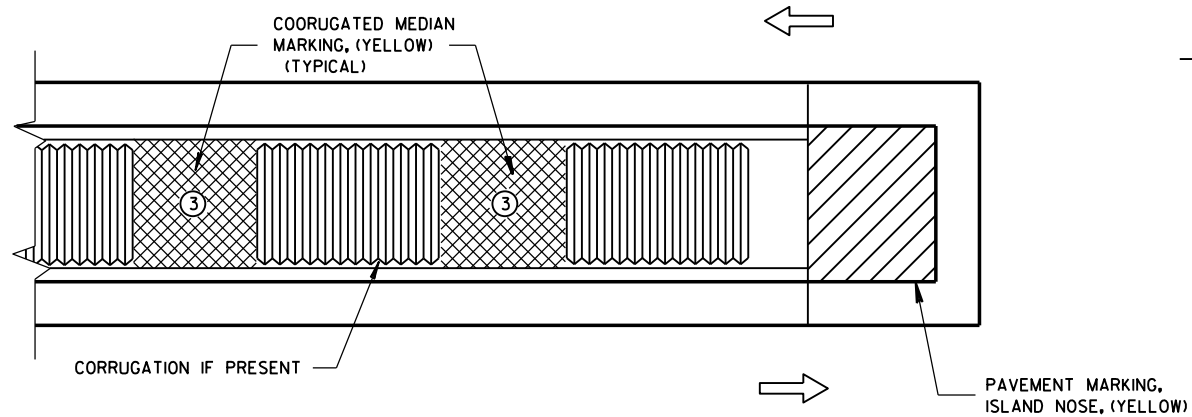
NOTE:
ARROW SYMBOL (➡)
SHOWS DIRECTION OF TRAVEL



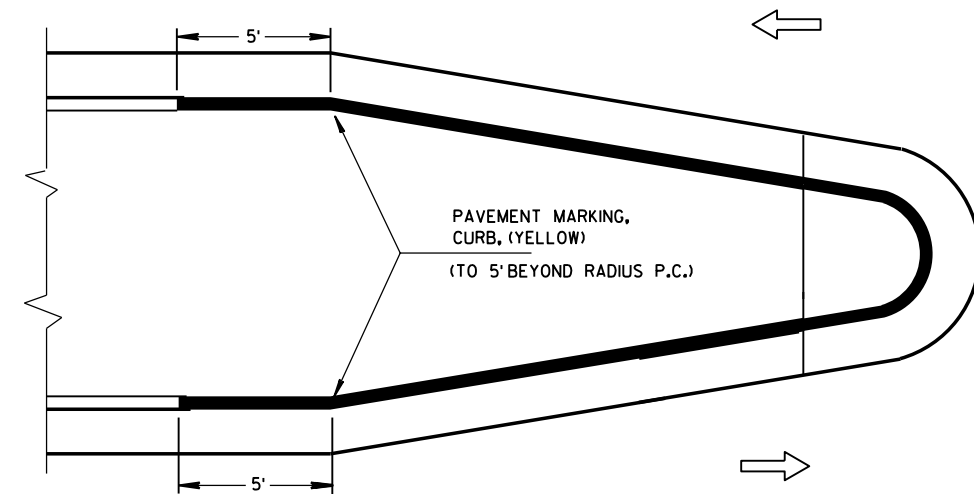
TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(LEFT TURN LANE)

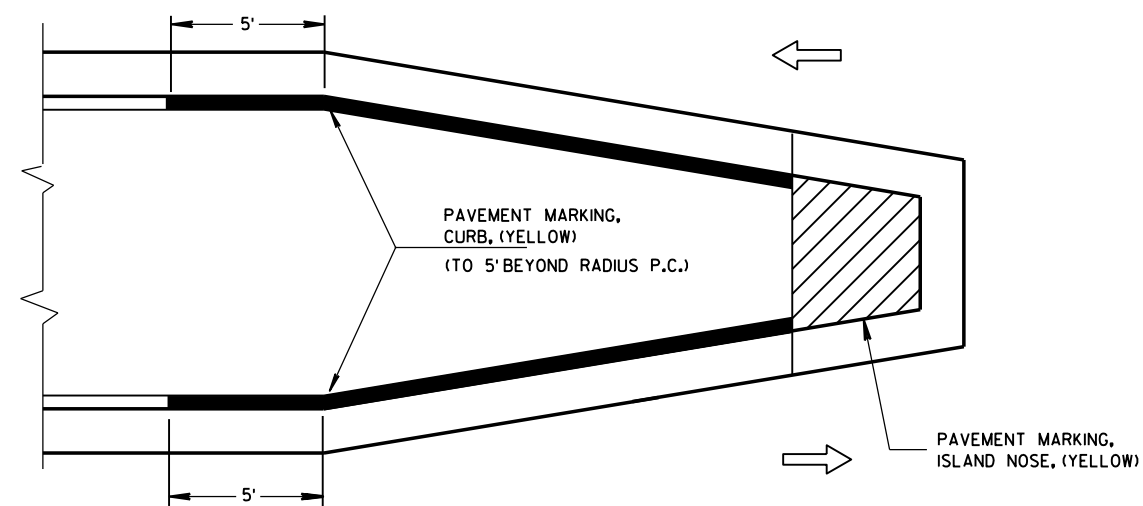
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

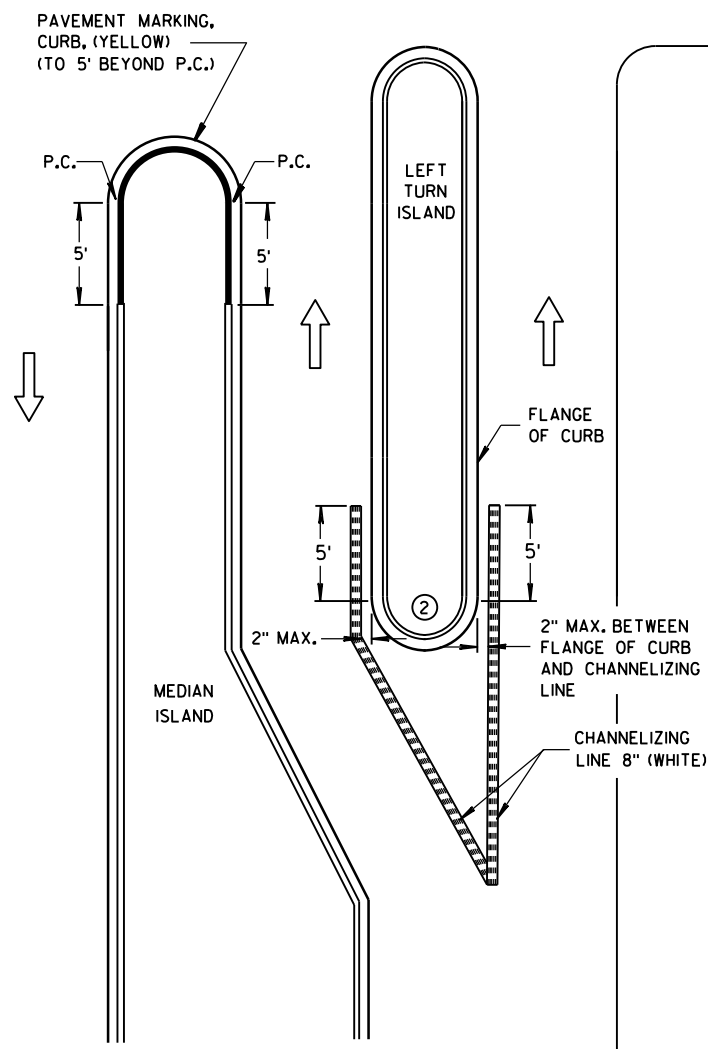


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

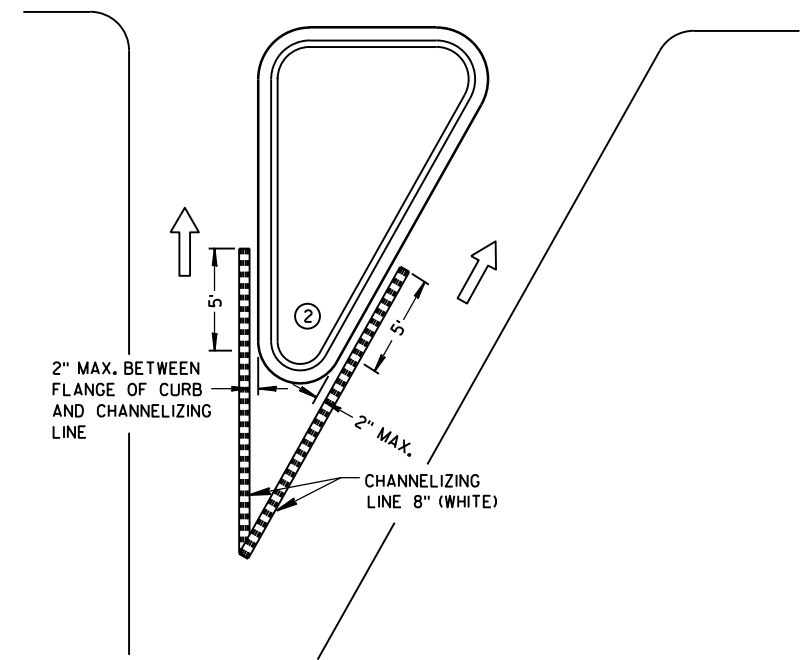
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

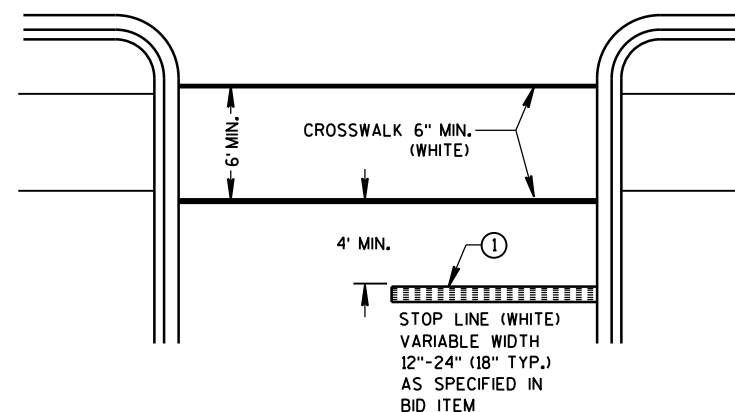
- ① STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- ③ WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL



STOP LINE AND CROSSWALK

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- POST WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN IN DRUM
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- ARROW BOARD
- 8' TYPE III BARRICADE
- *-x-* REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC

GENERAL NOTES :

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

- ① CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

GENERAL NOTES CONTINUED:

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

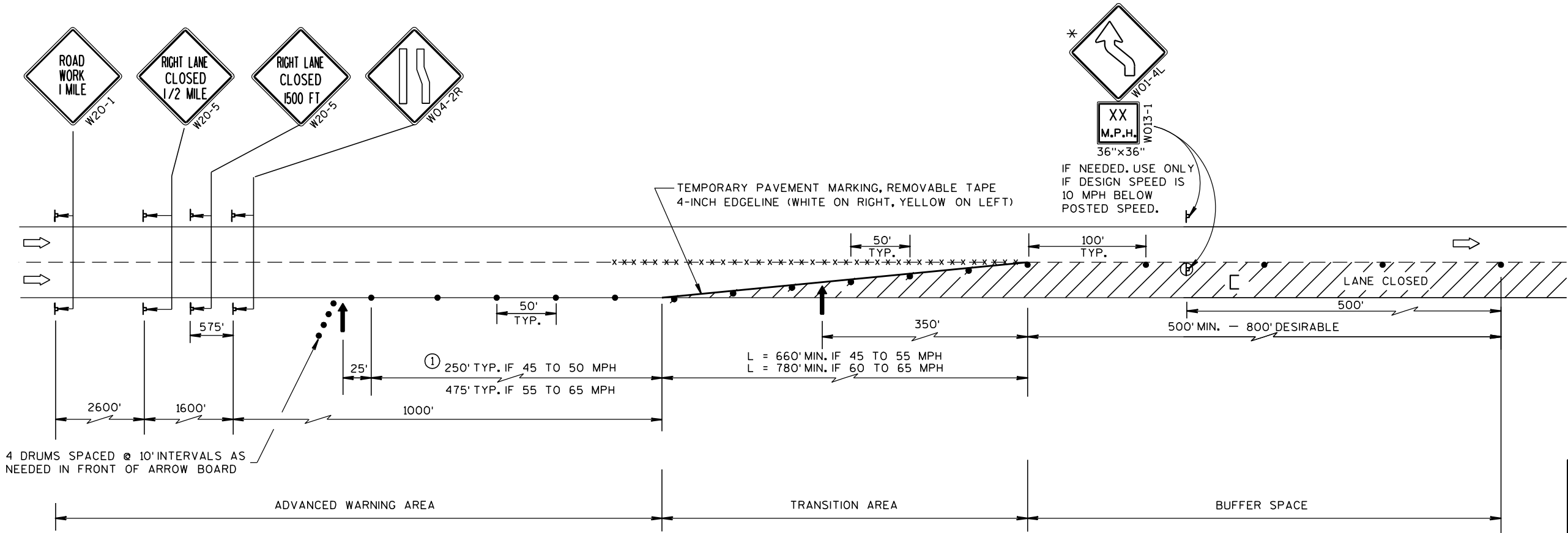
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

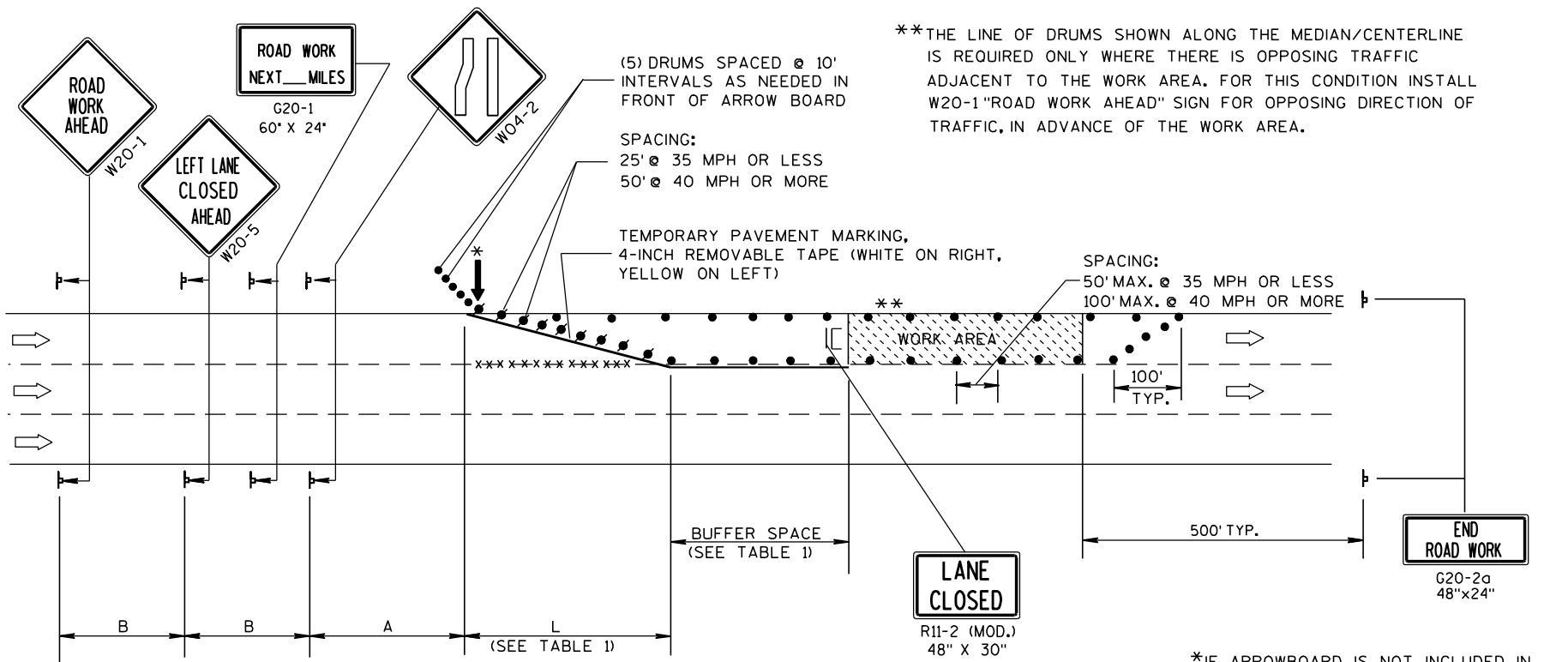
- * THE LEFT REVERSE CURVE SIGN (W01-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL,
LANE CLOSURE, SPEEDS
GREATER THAN 40 M.P.H.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-7-95
DATE /S/ Chester J. Spang
DIRECTOR, OFFICE OF TRAFFIC
FHWA



B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

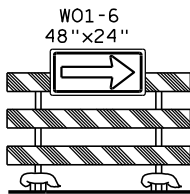
L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- /● DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- ⌵ POST MOUNTED SIGN
- ↑ ARROW BOARD
- IC/C TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- x x x x REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)



GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL,
SINGLE LANE CLOSURE,
NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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