PROJECT	DESIGNATION
2101118	2101118
CONTRACT	
R-44001	

INDIANA

DEPARTMENT OF

TRANSPORTATION

CITY OF EAST CHICAGO

MICHIGAN AVENUE RECONSTRUCTION PROJECT

PROJECT NO. 2101118 (PHASE 1)

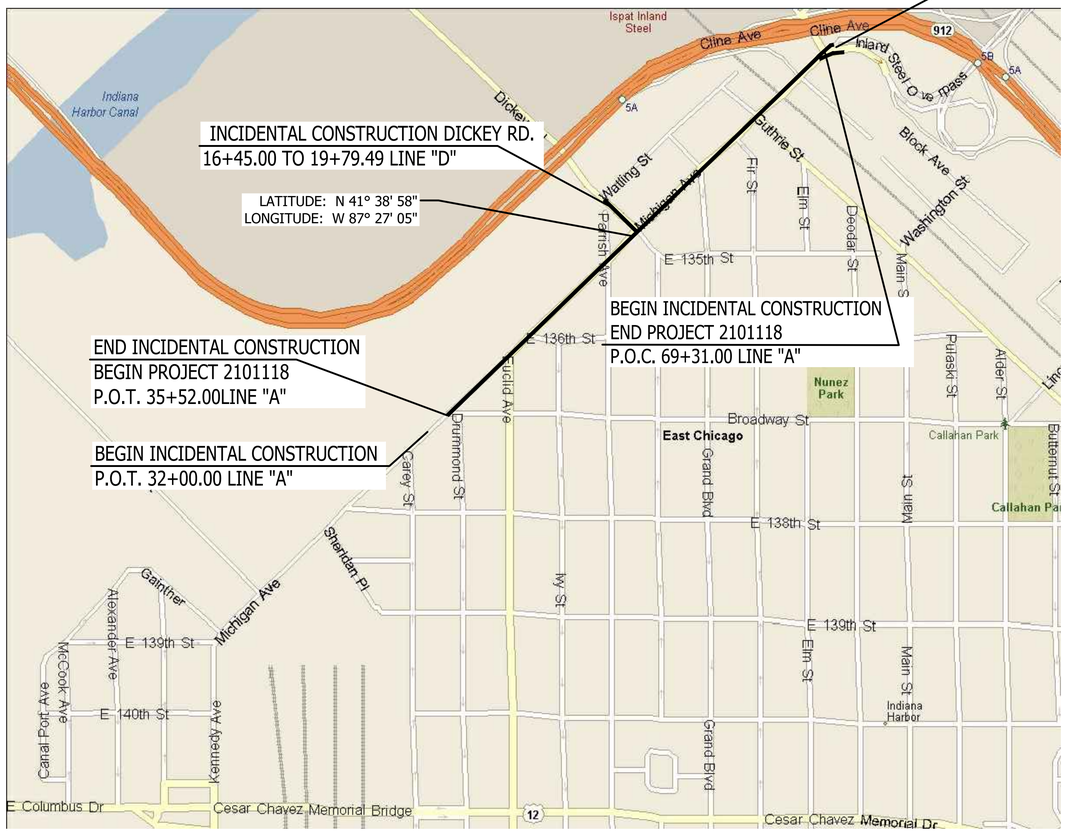
This Reconstruction Project Begins at the Intersection of Broadway Street and Michigan Avenue then Continues Northeast Approximately 3316.00 Feet (0.63 Miles) to the Intersection of Block Ave., then continues Northeast approxilately 254.78 Feet (0.05 Miles), In The City Of East Chicago, Indiana.

Gross Length: 4814.12 Ft. (0.91 Mi.)
Net Length: 4814.12 Ft. (0.91 Mi.)

Max. Grade: X.XX%

TRAFFIC DATA DICKEY RD. & MICHIGAN AVE. NORTH	
A.A.D.T. (2025)	10,574 V.P.D.
A.A.D.T. (2045)	12,574 V.P.D.
D.H.V. (2045)	291 V.P.H.
DIRECTIONAL DISTRIBUTION	50% - 50%
TRUCKS	18.1% D.H.V.
TRAFFIC DATA MICHIGAN AVE. SOUTH OF DICKEY RD.	
A.A.D.T. (2025)	2,608 V.P.D.
A.A.D.T. (2045)	3,128 V.P.D.
D.H.V. (2045)	241 V.P.H.
DIRECTIONAL DISTRIBUTION	50% - 50%
TRUCKS	1.3% D.H.V.
DESIGN DATA	
DESIGN SPEED	35 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	URBAN (BUILT UP)
TERRAIN	LEVEL
ACCESS CONTROL	NONE

END INCIDENTAL CONSTRUCTION
P.O.C. 70+00.00 LINE "A"



SCALE: 1"=500'

PROJECT LOCATION SHOWN BY

EAST CHICAGO BOARD OF PUBLIC WORKS

Valeriano Gomez — President

William Allen — Vice President
Employee in Responsible Charge (ERC)

Olga Cosme — Secretary

Winna Guzman — Member

First Group Engineering Inc.

CITY OF EAST CHICAGO
SEC. 21 & 22, T37N, R9W
NORTH TOWNSHIP, LAKE COUNTY
LAT. 41°38'51" N, LONG. 87°27'16" W

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2022 AND THE CITY OF EAST CHICAGO STANDARDS TO BE USED WITH THESE PLANS

PLANS PREPARED BY: FIRST GROUP ENGR., INC. (317) 290-9549
PHONE NUMBER

CERTIFIED BY: _____ DATE

APPROVED FOR LETTING: _____ INDIANA DEPARTMENT OF TRANSPORTATION DATE

DESIGNATION
2101118

SHEETS		
1	of	XX

CONTRACT	PROJECT
R-44001	2101118

UTILITIES

Gas & Electric

Electric
X
X
X
Attn: Arthur Rosales
ARosales@nisource.com

Gas
1313 167th Street
Hammond, In. 46324
(219) 895-4630
Attn: George Rodgers
georgerodgers@nisource.com

Telephone / Fiber Optic

AT&T
13630 Lorain Ave.
Cleveland, Oh. 44111
(216) 543-0256
Attn: Matt Spindler
ms4822@att.com

Job 8/Zayo
800 Woodlands Parkway, Suite 118
Ridgeland, Ms. 39157
(601) 956-0861
Attn: John Bruce
john.bruce@zayo.com

Wide Open West
1674 Frontenac Rd.
Naperville, Il. 60563
(630) 536-3153
Attn: Tom Jebens
tjebens@wideopenwest.com

Verizon/MCI
6835 Hillsdale Ct.
Indianapolis, In. 46250
(317) 498-1242
Attn: Rolland Craig
dennis.craig@verizon.com

Northwestern Indiana Telephone
P.O. Box 67
Hebron, In. 46341
(219) 996-0216
Attn: Don Schoenbeck
dons@nitco.com

Cable

Comcast
16 W. 84th Dr.
Merrillville, In. 46410
(574) 320-8203
Attn: Larry Smith
Larry_Smith3@comcast.com

Pipelines

Linde/Praxair Inc.
4450 Kennedy Ave.
East Chicago, In. 46312
(219) 391-5183
Attn: Kenny Diego
kenny_diego@praxair.com

Water

East Chicago Water Dept.
400 East Chicago Ave.
East Chicago, In. 46312
(219) 391-8469
Attn: Edward Santen
Esanten@eastchicago.com

Sewer

East Chicago Sewer
5201 Indianapolis Blvd.
East Chicago, In. 46312
(219) 391-8773
Attn: Obed Marrero
Omarrero@eastchicago.com

REVISIONS

SHEET NO.	DATE	REVISED

GENERAL NOTES

**	All Earth shoulders, median areas, and cut and fill slopes shall be plain or mulched seeded except where sodding is specified. Erosion control methods including sodding are to be placed as soon as possible after finished grade is established to minimize erosion.
**	No two drive entrances to the same property shall be closed at the same time.
**	The utilities as shown on the plans are for reference only. It is Contractor's responsibility to contact all utility companies at least 2 weeks prior to any construction and to determine the exact locations of all utilities. Dimensions for all existing utilities are shown in Inches (in.)
**	This set of plans shall not be construed to be a property retracement survey. Where apparent property lines, corners, subdivisions, or section corners information is shown, it is based upon physical evidence or testimony
**	If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division and the INDOT District Environmental Section will be contacted immediately

** REPRESENTS GENERAL NOTES REQUIRED

EARTHWORK SUMMARY TABLE

LINE	COMMON EXCAVATION (CYS)		FILL + 25% (CYS)	
	COMMON	BENCHING	FILL	BENCHING
Line "A"	5145	–	600	–
Line "D"	639	–	0	–
TOTALS	5784		600	

EXCAVATION, COMMON = 5784 CYS

PAVEMENT REMOVAL = 12,315 SYS

BORROW = 100 CYS
(UNDISTRIBUTED)

INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	INDEX AND INFORMATION SHEET
3 – 5	TYPICAL CROSS SECTIONS
6 – 7	MAINTENANCE OF TRAFFIC DETAILS
8 – 25	PLAN AND PROFILES
26	CONSTRUCTION DETAILS
27	SPOT ELEVATION
28 – 35	CURB RAMP DETAILS
X	WATER LINE DETAILS
X	EROSION SEDIMENT CONTROL PLANS
36 – 40	PAVEMENT MARKING AND SIGNING DETAILS
41, 42	TRAFFIC SIGNALS DETAILS
43 – 45	LIGHTING DETAILS
46	SUMMARY OF QUANTITIES AND APPROACH TABLE
X	STRUCTURE DATA TABLES
X	PIPE MATERIAL SHEETS
47 – 74	CROSS SECTIONS

Know what's below. Call before you dig.

First Group Engineering Inc.
5925 Lakeside Blvd.
Indianapolis, Indiana 46278
Phone (317) 290-9549

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

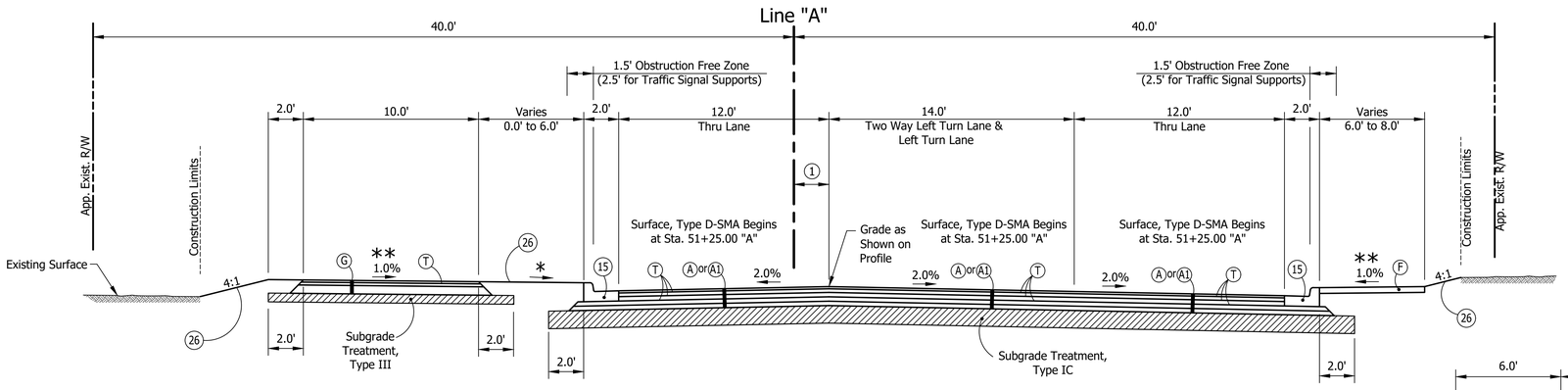
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVE.
INDEX AND INFORMATION SHEET

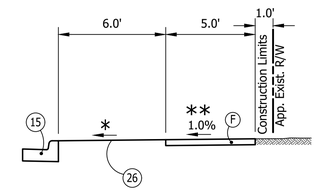
HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	2 of XX
CONTRACT	PROJECT
R-44001	2101118



Typical Cross Section

Sta. 35+52.00 to Sta. 51+50.00 Line "A"

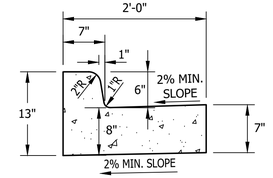
SCALE: 1" = 4'



Alternate Sidewalk Section

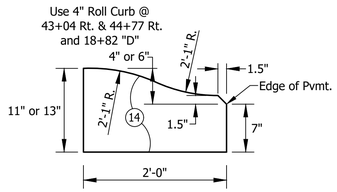
Sta. 47+00.00 to Sta. 51+50.00 Rt. Line "A"

SCALE: 1/4" = 1'-0"



Combined Concrete Curb & Gutter

SCALE: 1" = 1'



Roll Curb, Concrete Detail

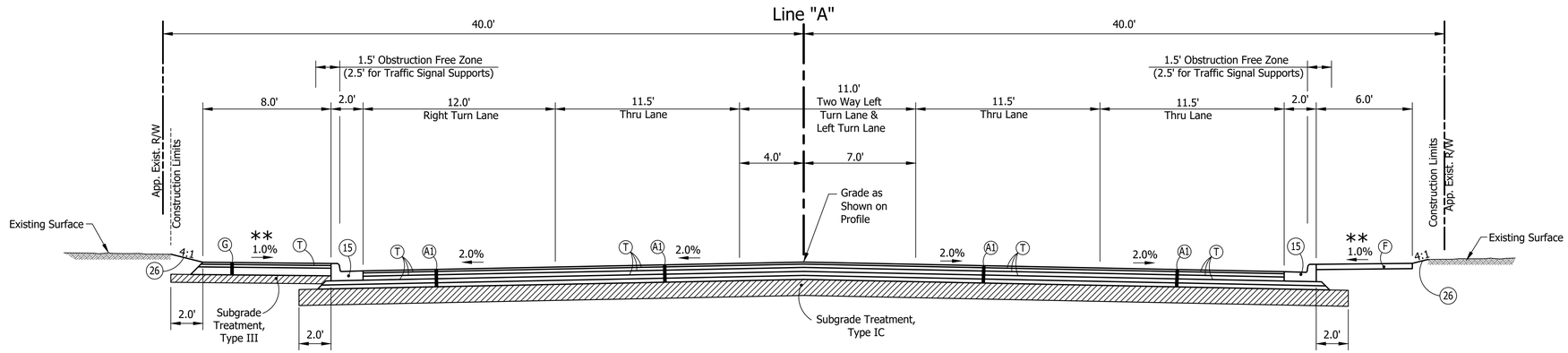
SCALE: 1" = 1'

① Profile Grade

Varies 0.0' to 4.0' Rt. From
Station 35+52.00 to 37+00.00

Varies 4.0' Rt. to 0.0' From
Station 46+00.00 to 47+00.00

Line "A" From Station
47+00.00 to 51+50.00



Typical Cross Section

Sta. 51+50.00 to Sta. 57+47.00 Line "A"

SCALE: 1" = 4'

∗ Slope Varies, 6:1 Max.

∗∗ Slope Varies, Slope 1.0% Unless Shown
Otherwise on Cross Sections (2.0% Max.)

Legend

- (A) 165 #/syd. Hma Surface Type D, 9.5 mm On
  275 #/syd. Hma Intermediate Type D, 19.0mm On
  660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On
  3" Compacted Aggregate No. 53, On
  Subgrade Treatment Type IC
- (A1) 165 #/syd. Hma Surface Type D-SMA, 9.5 mm On
  275 #/syd. Hma Intermediate Type D, 19.0mm On
  660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On
  3" Compacted Aggregate No. 53, On
  Subgrade Treatment Type IC
- (C1) PCCP for Approaches 6" on
  Dense Graded Subbase, on
  Subgrade Treatment Type II
- (C2) PCCP for Approaches 9" on
  Dense Graded Subbase, on
  Geogrid Type 1B, on
  Subgrade Treatment Type II
- (CR) Curb Ramp, Concrete
- (F) Sidewalk, Concrete
- (FT) Sidewalk Elevation Transition
- (G) HMA Sidewalks:
  140 #/syd. Hma Surface Type B On
  220 #/syd. Hma Intermediate Type B On
  6" Compacted Aggregate No. 53
  Subgrade Treatment Type III
- (GT) HMA Elevation Transition
- (R) Milling, Asphalt 1 1/2" with
  165 #/syd. Hma Surface Type D-SMA, 9.5 mm
- (T) Asphalt Material For Tack Coat
- (14) Concrete Roll Curb
- (15) Combined Concrete Curb And Gutter
- (26) Sodding (Nursery) W/topsoil
  (4" As Required Under Sodding)
- (27) Seed Mixture, U

RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

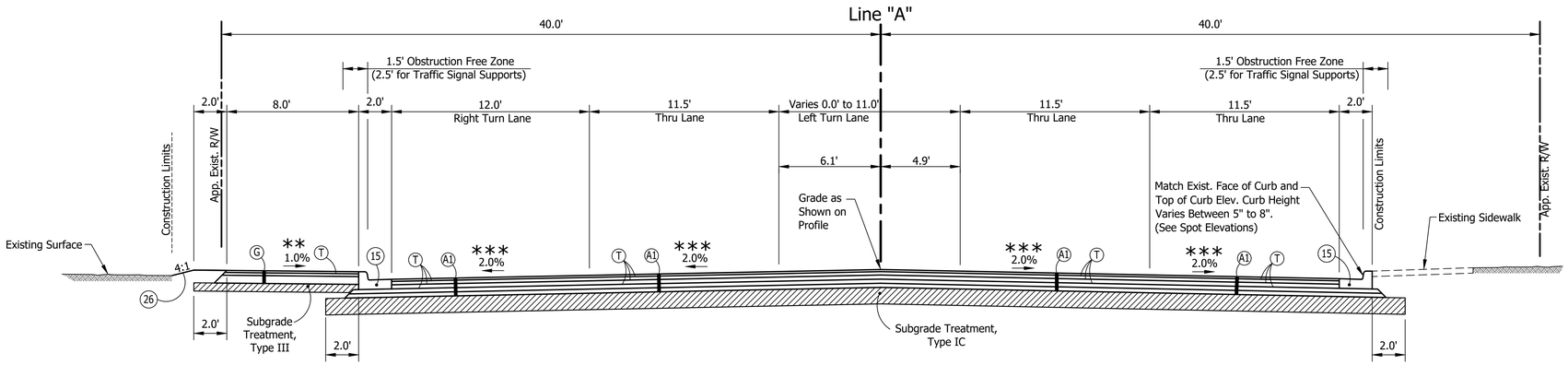
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 4'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118

SURVEY BOOK	SHEETS
N/A	3 of XX
CONTRACT	PROJECT
R-44001	2101118

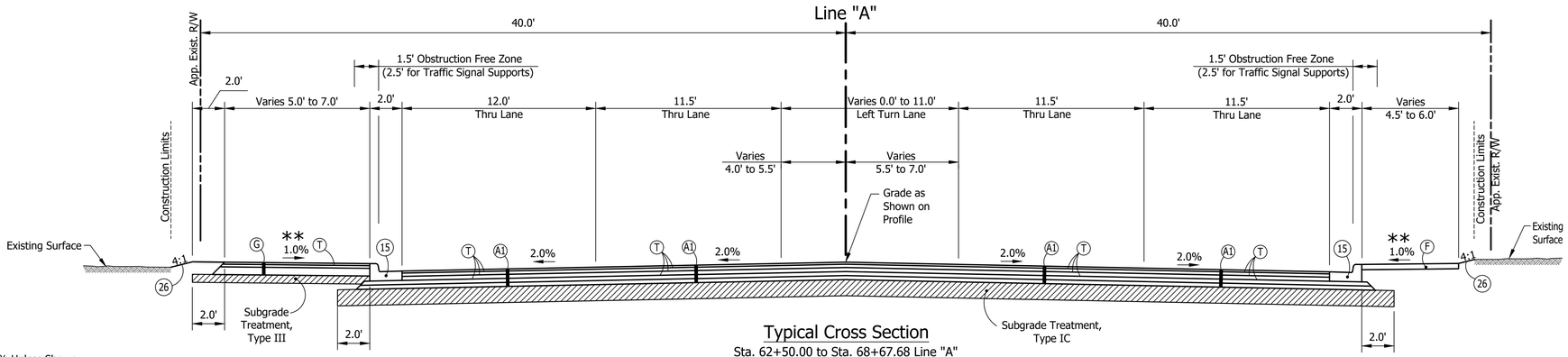


Typical Cross Section

Sta. 57+47.00 to Sta. 62+50.00 Line "A"

SCALE: 1" = 4'

*** Match Exist. Cross Slope and Profile Grade,
Between Sta. 62+03.50 to 62+24.40
(No Typical Section Shown).



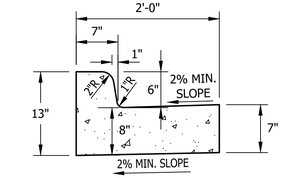
Typical Cross Section

Sta. 62+50.00 to Sta. 68+67.68 Line "A"

SCALE: 1" = 4'

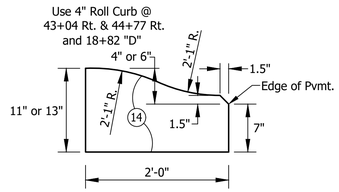
* Slope Varies, 6:1 Max.

** Slope Varies, Slope 1.0% Unless Shown
Otherwise on Cross Sections (2.0% Max.)



Combined Concrete Curb & Gutter

SCALE: 1" = 1'



Roll Curb, Concrete Detail

SCALE: 1" = 1'

Legend

(A) 165 #/syd. Hma Surface Type D, 9.5 mm On
275 #/syd. Hma Intermediate Type D, 19.0mm On
660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On
3" Compacted Aggregate No. 53, On
Subgrade Treatment Type IC

(A1) 165 #/syd. Hma Surface Type D-SMA, 9.5 mm On
275 #/syd. Hma Intermediate Type D, 19.0mm On
660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On
3" Compacted Aggregate No. 53, On
Subgrade Treatment Type IC

(C1) PCCP for Approaches 6" on
Dense Graded Subbase, on
Subgrade Treatment Type II

(C2) PCCP for Approaches 9" on
Dense Graded Subbase, on
Geogrid Type 1B, on
Subgrade Treatment Type II

(CR) Curb Ramp, Concrete

(F) Sidewalk, Concrete

(FT) Sidewalk Elevation Transition

(G) HMA Sidewalks:
140 #/syd. Hma Surface Type B On
220 #/syd. Hma Intermediate Type B On
6" Compacted Aggregate No. 53
Subgrade Treatment Type III

(GT) HMA Elevation Transition

(R) Milling, Asphalt 1 1/2" with
165 #/syd. Hma Surface Type D-SMA, 9.5 mm

(T) Asphalt Material For Tack Coat

(14) Concrete Roll Curb

(15) Combined Concrete Curb And Gutter

(26) Sodding (Nursery) W/topsoil
(4" As Required Under Sodding)

(27) Seed Mixture, U

RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER DATE

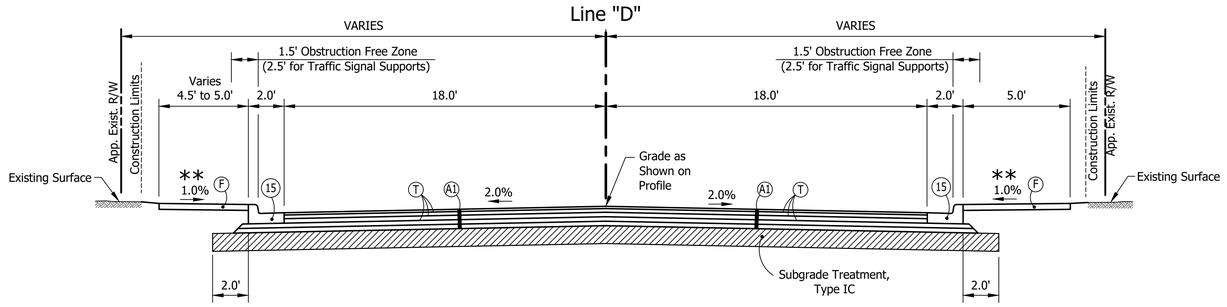
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

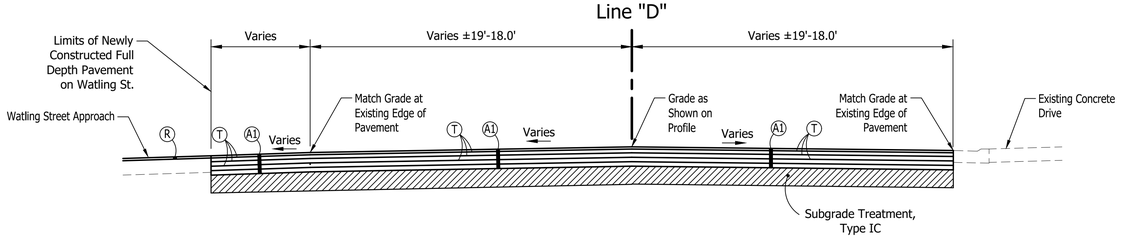
INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
TYPICAL CROSS SECTIONS

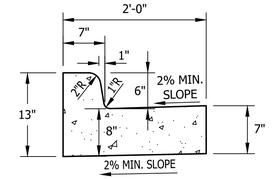
HORIZONTAL SCALE	BRIDGE FILE
1" = 4'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	4 of XX
CONTRACT	PROJECT
R-44001	2101118



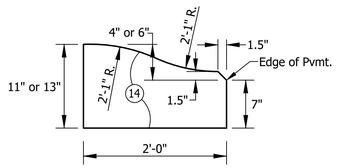
Typical Cross Section
Dickey Road
Sta. 17+45.00 to Sta. 18+99.78 Line "D"
SCALE: 1" = 4'



Typical Cross Section
Dickey Road
Sta. 16+45.00 to Sta. 17+35.00 Line "D"
SCALE: 1" = 4'



Combined Concrete Curb & Gutter
SCALE: 1" = 1'



Roll Curb, Concrete Detail
SCALE: 1" = 1'

Legend

- (A) 165 #/syd. Hma Surface Type D, 9.5 mm On
  275 #/syd. Hma Intermediate Type D, 19.0mm On
  660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On
  3" Compacted Aggregate No. 53, On
  Subgrade Treatment Type IC
- (A1) 165 #/syd. Hma Surface Type D-SMA, 9.5 mm On
  275 #/syd. Hma Intermediate Type D, 19.0mm On
  660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On
  3" Compacted Aggregate No. 53, On
  Subgrade Treatment Type IC
- (C1) PCCP for Approaches 6" on
  Dense Graded Subbase, on
  Subgrade Treatment Type II
- (C2) PCCP for Approaches 9" on
  Dense Graded Subbase, on
  Geogrid Type 1B, on
  Subgrade Treatment Type II
- (CR) Curb Ramp, Concrete
- (F) Sidewalk, Concrete
- (FT) Sidewalk Elevation Transition
- (G) HMA Sidewalks:
  140 #/syd. Hma Surface Type B On
  220 #/syd. Hma Intermediate Type B On
  6" Compacted Aggregate No. 53
  Subgrade Treatment Type III
- (GT) HMA Elevation Transition
- (R) Milling, Asphalt 1 1/2" with
  165 #/syd. Hma Surface Type D-SMA, 9.5 mm
- (T) Asphalt Material For Tack Coat
- (14) Concrete Roll Curb
- (15) Combined Concrete Curb And Gutter
- (26) Sodding (Nursery) W/topsoil
  (4" As Required Under Sodding)
- (27) Seed Mixture, U

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

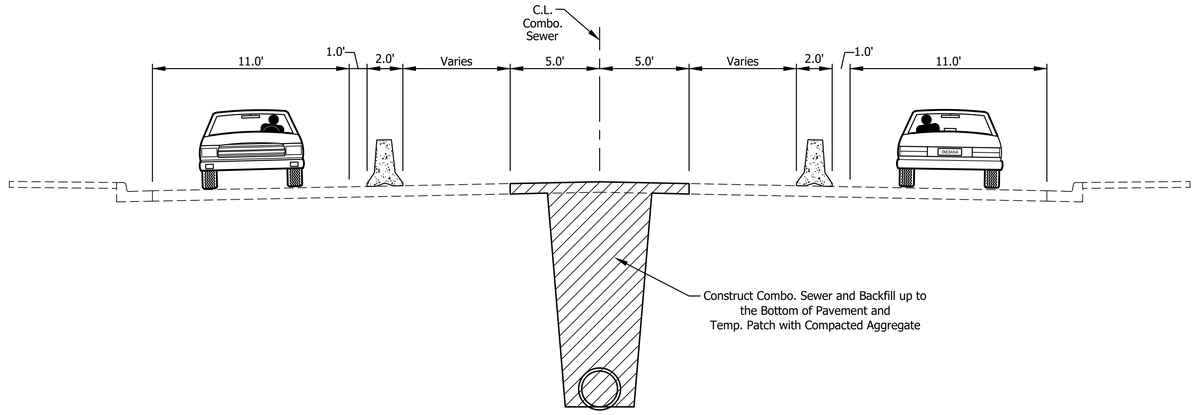
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE & DICKEY ROAD
TYPICAL CROSS SECTIONS

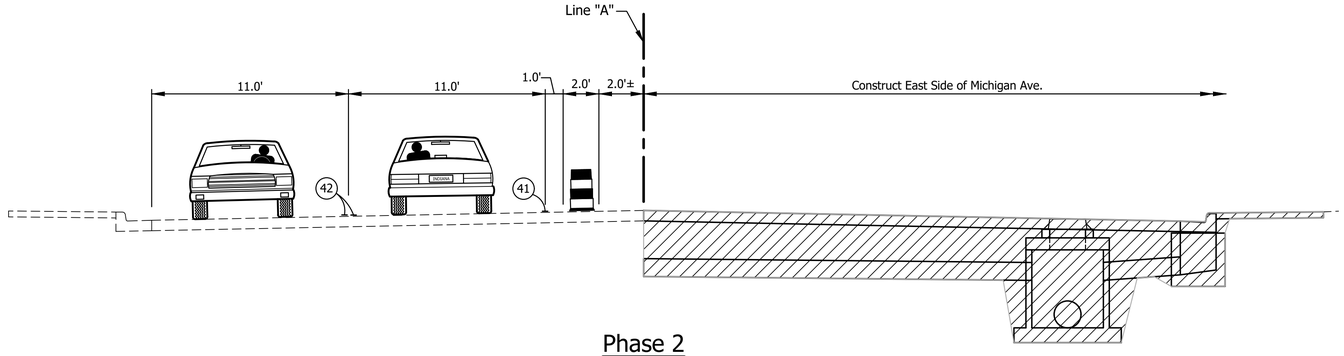
HORIZONTAL SCALE	BRIDGE FILE
1" = 4'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118

SURVEY BOOK	SHEETS
N/A	5 of XX
CONTRACT	PROJECT
R-44001	2101118



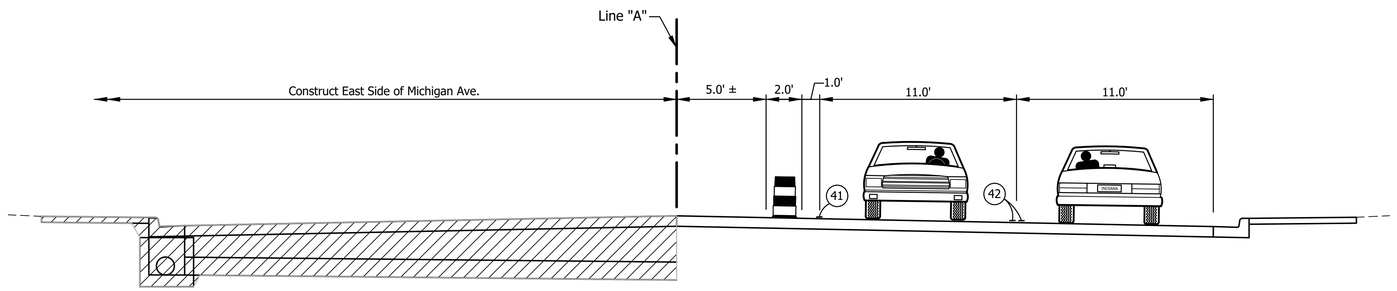
Phase 1

Scale 1" = 4'
From Dickey Rd. to Block Ave.
(See Detours for Broadway St. to Dickey Rd.)



Phase 2

Scale 1" = 4'
From Dickey Rd. to Block Ave.
(See Detours for Broadway St. to Dickey Rd.)



Phase 3

Scale 1" = 4'
From Dickey Rd. to Block Ave.
(See Detours for Broadway St. to Dickey Rd.)

Legend

- Standard Drum
- Standard Drum
- Barricade, Type III-B
- Traffic Flow Arrow
- Construction Signs, Type A or B w/Type "A" Construction Warning Light
- (L) Temproary Traffic Barrier, Type 2
- Flashing Arrow Sign
- Area To Be Constructed During This Phase
- (41) Temp. Pavement Marking, Solid, White, 4"
- (42) Temp. Pavement Marking, Solid, Yellow, 4"

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
1" = 4'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118

SURVEY BOOK	SHEETS
N/A	5 of XX
CONTRACT	PROJECT
R-44001	2101118

Summary Of Maintenance Of Traffic Quantities						
Item						
	Phase 1	Phase 2				TOTALS
Line, Remove						X Lft.
** Temporary Pavement Marking, Solid, White, 4"						X Lft.
Temporary Pavement Marking, 4" (Removable)						X Lft.
Line, Thermoplastic, Solid, White, 4 In. (To Replace Permanent Markings Removed)						X Lft.
Line, Thermoplastic, Solid, Yellow, 4 In. (To Replace Permanent Markings Removed)						X Lft.
Temp. Pavement Message Markings, Thermoplastic, Lane Indication Arrow						* X Each
Construction Signs, Type "A" w/Type "A" Construction Warning Light						* X Each
Construction Signs, Type "B" w/Type "A" Construction Warning Light						* X Each
Barricade, Type III-B						* X Lft.
Flashing Arrow Sign (Days) (at 10 Days Each)						X Days
**** Compacted Aggregate No. 53, Temporary						X Tons
*** Temporary Traffic Barrier, Type 2						* X Lft.
*** Energy-Absorbing Terminal, CZ, TL-2						* X Ea.

* Maximum required during any single phase

** Not a pay item

*** Total includes undistributed quantity for locations deemed necessary by the engineer for sewer or other construction.

**** Estimated quantity for maintaining access to drives. (As required)

NOTES:

Existing pavement markings that conflict with each maintenance of traffic scheme shall be removed prior to construction.

No two adjacent street approaches shall be closed at the same time.

Whenever possible private driveways shall be constructed in portions to allow access to properties at all times. Whenever private driveways are too narrow to accommodate continuous access the contractor shall contact the property owner and work out a time schedule for driveway construction that will cause the least inconvenience to the property owner.

Dimensions for sign locations are approximate only. Actual locations to be determined by the Contractor and approved by the engineer.

CONSTRUCTION ZONE DESIGN SPEED (mph)	SPACING (ft)	
	TAPERED SECTION	TANGENT SECTION
45 or less	25	50
50 or greater	50	100

SUGGESTED MAXIMUM SPACING OF CHANNELIZATION DEVICES

Sequence Of Construction

Phase 1 - Construct Combo. Sewer and Backfill up to the Bottom of Pavement and Temp. Patch with Compacted Aggregate

Phase 2 - Shift Traffic to the West. Construct East Side of Michigan Ave. From Dicky Rd. To Block Ave.

Phase 3 - Shift Traffic to the East. Construct West Side of Michigan Ave. From Dicky Rd. To Block Ave.

Phase 4 - Construct from Broadway St. to Dicky One Block at a Time Using a Standard Urban Detour.

Legend

- Standard Drum
- Standard Drum
- Barricade, Type III-B
- Traffic Flow Arrow
- Construction Signs, Type A or B w/Type "A" Construction Warning Light
- (L) Temproary Traffic Barrier, Type 2
- Flashing Arrow Sign
- Area To Be Constructed During This Phase
- (41) Temp. Pavement Marking, Solid, White, 4"
- (42) Temp. Pavement Marking, Solid, Yellow, 4"

Sign Legend

(48) XG20-7 - Worksite Added Penalty Sign

(49) XW20-1 - Road Construction Ahead

(50) XG20-2 - End Construction

(51) R3-7(R) - Right Lane Must Turn Right

(52) XW9-2A(R) - Lane Ends Merge Right

(53) XW4-2-A(R) - Merge Right (Sym.)

(54) R3-2a - No Left Turn

(55) R9-9 - Sidewalk Closed

(56) R11-3a - Road Closed / Local Traffic Only

(57) R11-2 - Road Closed

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

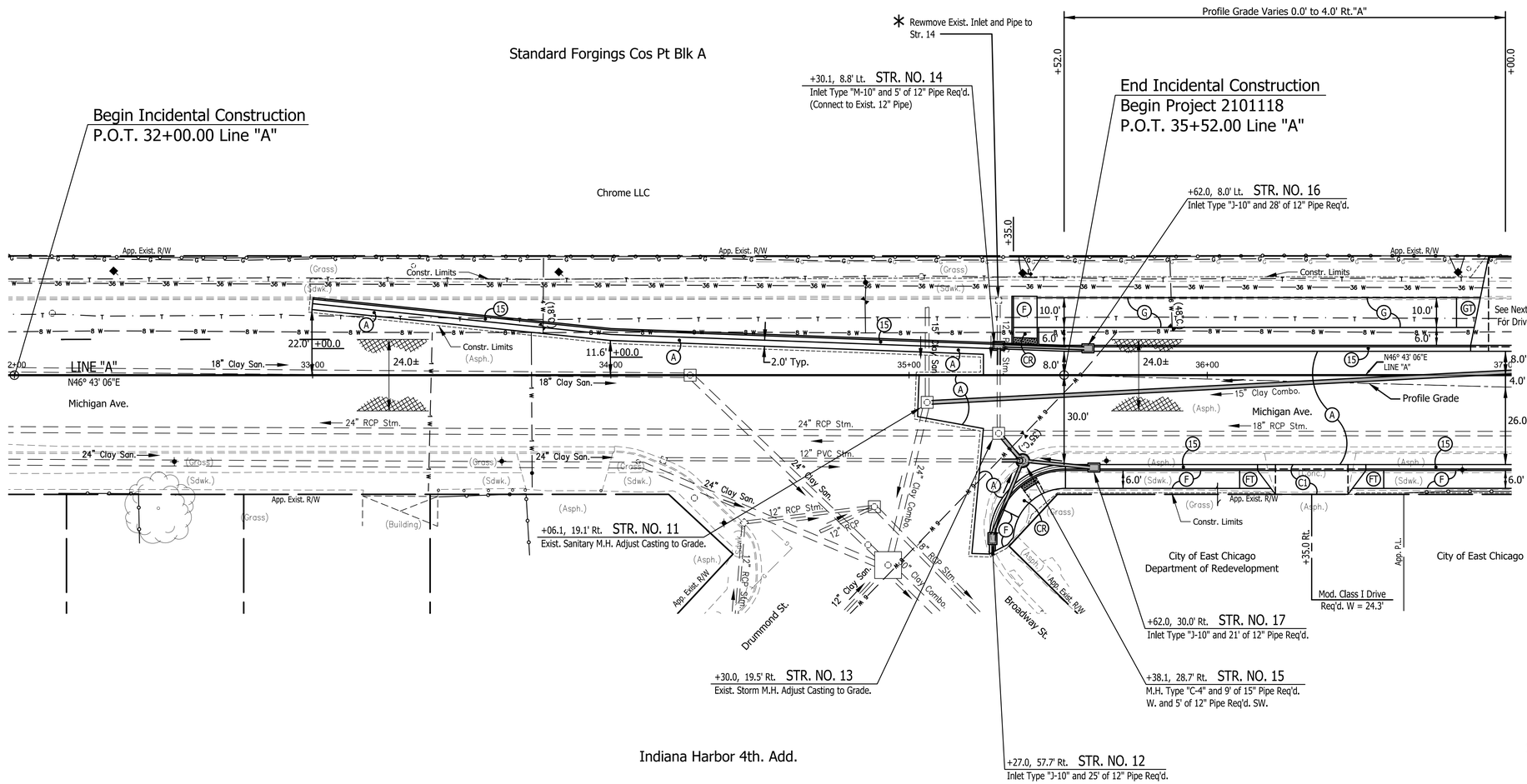
INDIANA DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
1" = 4'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	5 of XX
CONTRACT	PROJECT
R-44001	2101118

32 | 33 | 34 | 35 | 36 | 37

32+12.7,20.8' Tele. M.H.
32+33.3,35' Pwp. (71-902)
33+33.8,36.7' H.H. (Traffic)
33+77.1,16.4' W.V.
33+82.6,34.6' Pwp. (71-901)
SEC. 21, T37N, R9W
NORTH TOWNSHIP
LAKE COUNTY
34+85.2,25.1' W.V.
34+85.4,31.1' F.Hyd.
35+04.2,33' Telephone M.H.
35+30.1,25.1' Inlet (B-15)
35+38.1,34.3' Pwp. (72-431)
35+40.34' Sign (No Parking Any Time)
35+40.83,33' Tr. Box (Comcast)
35+88.2,16' W.V.
36+84.1,34.6' Pwp. (79-979)
36+87.7,35.7' H.H. (Lighting)



32+14,9,39.6' End Fence
32+41.6,39.8' Fence Cor.
32+42,56.4' End Fence
32+48.3,44.7' Maple 30 IN
32+53.6,29' L.I.P. (No No.)
33+42.2,38.6' Sti. Post
33+42.3,40.8' End Fence
33+50.7,38.7' Sti. Post
33+59.38,7' Sti. Post
33+63.4,28.9' L.I.P. (No No.)
33+67.1,38.6' Sti. Post
33+71.3,38.6' Sti. Post
33+71.6,39.8' Fence Cor.
33+72.8,60.4' End Fence
33+73.6,32.8' W.M.
33+96.7,38.7' Sti. Post
34+09.1,29.1' H.H. (Comm.)
34+17.7,28.5' Inlet
34+26.0,0' Sanitary M.H.
34+28.09,41.2' Traf. Sig. M.H.
34+38.0,49.6' L.I.P. (No No.)
34+41.9,83.4' Inlet
34+44.8,49.5' Inlet
34+71.9,107.9' Sign (Broadway/Drummond St.)
34+86.2,56.9' C.B.
34+88.4,44.1' Storm M.H.
34+93.6,3.7' Sanitary M.H.
35+06.1,9.1' Sanitary M.H.
35+10.5,115.5' Inlet
35+30,19.5' Storm M.H.
35+33.8,90.6' Storm M.H.
35+38.1,28.7' C.B. (B-15)
35+38.6,19.9' W.V.
35+44.5,80.4' Inlet
35+66.2,28.7' Lt. P.
36+66.4,39.5' End Fence
36+85.5,31.8' L.I.P. (No No.)

Cut "X" in Curb
Cut "X" in Walk
Mag. Spk. Nail
9.00'
26.99'
26.99'
107
NORTH 2330896.3330
EAST 2851106.8390
Control Pt. Sta. 37+21.91 Rt.

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

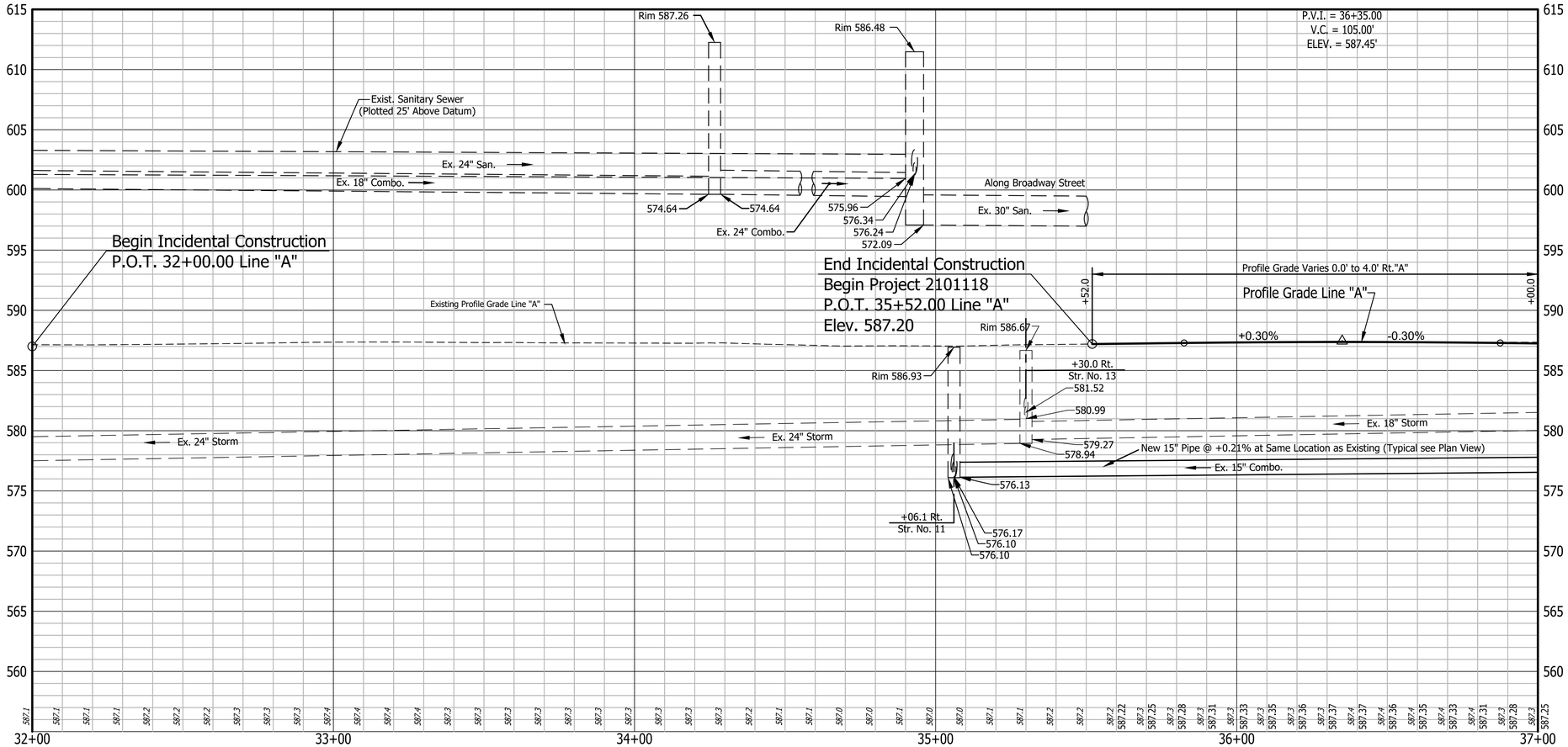
INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	8 of XX
CONTRACT	PROJECT
R-44001	2101118

B.M. NO. 8 Cut Square in Ltp. Fdn.
29+99.11 "A", 29.78 Rt., Elev. 587.21



RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	9 of XX
CONTRACT	PROJECT
R-44001	2101118

37

37+29.5,2.5' Sanitary M.H.

37+79.6,30.5' L.I.P. (No No.)

38

38+31.5,35.2' Pwp. (71–847)

38+48.4,37' Tf. Box

38+49.2,1' Sanitary M.H.

38+76.1,34.6' H.H. (Lighting)

38+79.3,24.7' Inlet (B–15)

38+82.7,35.9 Bol. 6 in.

39

39+15.2,35.6' Bol. 6 in.

39+15.2,27.4' H.H. (Signal)

Street Appr. Req'd. Rt.
Sta. 39+44.6, W = 80.9'

SEC. 21, T37N, R9W
NORTH TOWNSHIP
LAKE COUNTY

39+65.1,30.6' L.I.P. (No No.)

39+81,35.2' Pwp. (71–846)

39+85.3,1.1' Sanitary M.H.

40

40+10.3,16.9' Telephone M.H.

40+18.4,11.8' Telephone M.H.

40+26.3,11.2' W.V.

40+53.4,0.2' Fence Cor.

40+59.7,37.9' Stl. Post

40+60.4,0.2' Stl. Post

40+62.2,42.1' Stl. Post

40+65.4,9.7' Stl. Post

40+65.2,52.1' End Fence and Gate End

40+67.1,33.3 H.H. (Lighting)

41

41+13.5,3.2' End 6' C.L.I.F. w/Barbed Wire and Curve Ext.

41+13.2,49.8' Stl. Post

41+20.3,7' Mailbox

41+25.7,34.9' Pwp. (71–845)

41+26.1,40.6' Fence Cor.

Street Appr. Req'd. Rt.
Sta. 41+83.1, W = 50.5'

41+61.3,0.3' L.I.P. (No No.)

41+63.8,2' Sanitary M.H.

41+66.9,13.7' W.V.

41+71.8,32.3' Fire Hydrant

41+76.9,26.7' W.V.

41+79.5,11.3' W.V.

41+80.3,2.1' Sanitary M.H.

41+89.4,2' C.B.

41+97.9,18.4' Telephone M.H.

42

42+36.2,4.6' Inlet (B–15)

42+80.2,35' Pwp. (71–844)

43

Profile Grade 4.0' Rt. "A"

Profile Grade 4.0' Rt. "A"

Standard Forgings Cos Pt Blk A

Mod. Class III Drive
Req'd. W = 26.5'

+07.6 Lt.

+29.5, 2.5' Lt. STR. NO. 18
M.H. Type "C-4" and 220' of 15" Pipe Req'd.

+25.0, 8.0' Lt. STR. NO. 21
Inlet Type "M-10" and 52' of 12" Pipe Req'd.

+15.0, 8.0' Lt. STR. NO. 19
Inlet Type "J-10" and 8' of 12" Pipe Req'd.

+79.0, 8.0' Lt. STR. NO. 24
Inlet Type "M-10" w/o Curb Box and 5' of 12" Pipe Req'd.
(Connect to Exist. 12" Pipe)

+49.0, 2.1' Lt. STR. NO. 23
M.H. Type C-4 and 118' of 15" Pipe Req'd and 5' of 8" Pipe NW. and SE. (10' Total 8")

Chrome LLC

+80.0, 8.0' Lt. STR. NO. 27
Inlet Type "J-10" and 98' of 12" Pipe Req'd.

Mod. Class III Drive
Req'd. W = 26.5'

+98.4 Lt.

+85.3, 1.1' Lt. STR. NO. 29
M.H. Type "C-4" and 134' of 15" Pipe Req'd. Reconnect 24' of Exist. 12" Pipe (NW.)

Mod. Class III Drive
Req'd. W = 55.0'

+89.7 Lt.

+63.8, 2.0' Lt. STR. NO. 35
M.H. Type "C-4" and 175' of 15" Pipe Req'd. Reconnect 24' of Exist. 10" Pipe (NW.)

Bioswale &
Infiltration Trench
See Sheet No. XX for
Additional Details

Chrome LLC

+22.0, 8.0' Lt. STR. NO. 36
Inlet Type "J-10" and 12' of 12" Pipe Req'd.

+35.8, 8.0' Lt. STR. NO. 38
Inlet Type "M-10" and 5' of 12" Pipe Req'd.
(Connect to Exist. 12" Pipe)

App. Exist. R/W
Constr. Limits
(Grass)
(Sdwk.)
(Asph.)
(Gate)
(Det. Loop)
(Conc.)
(Building)
(29°C)
10" Clay San.
12" Clay San.
8" Clay San.
8" PVC San.
12" PVC Stm.
18" RCP Stm.
15" Clay Combo.
LINE "A"
N46° 43' 06"E
Profile Grade
Michigan Ave.
Euclid Ave.
E. 136th St.
Alley
Gombus, Michael J & Susan M
Delphi-Interloc Inc.
City of East Chicago
Mod. Class I Drive
Req'd. W = 15.1'
+58.0 Rt.
Ave. P.L.
Ave. C.L.
Ave. Exist. R/W
Ave. Prop. R/W
7+00
38+00
39+00
40+00
41+00
42+00
43+00
+95.5
+07.2
+37.3
+21.8

+15.0, 30.0'Rt. STR. NO. 20
Inlet Type "J-10" and 8' of 12" Pipe Req'd.

+25.0, 30.0'Rt. STR. NO. 22
Inlet Type "M-10" and 52' of 12" Pipe Req'd.

+79.0, 19.7' Rt. STR. NO. 25
Exist. Storm M.H. Adjust Casting to Grade & Clean Out Pipe Downstream

+79.0, 30.0' Rt. STR. NO. 26
Inlet Type "M-10" and 9' of 12" Pipe Req'd.

+83.0, 45.1' Rt. STR. NO. 28
Existing Storm Inlet, No Change Req'd.

+08.0, 21.0' Rt. STR. NO. 30
M.H. Type "C-4" and 120' of 12" Pipe Req'd. & 8' of 6' Pipe Req'd. S.

+15.0, 30.0' Rt. STR. NO. 31
Inlet Type "J-10" and 10' of 12" Pipe Req'd.

+30.0, 24.0' Rt. STR. NO. 32
M.H. Type "C-4" and 102' of 12" Pipe Req'd.

+30.0, 30.0' Rt. STR. NO. 33
Inlet Type "M-10" and 5' of 12" Pipe Req'd.

+56.2, 42.1' Rt. STR. NO. 34
Inlet Type "J-10" and 26' of 12" Pipe Req'd.

+22.0, 30.0' Rt. STR. NO. 37
Inlet Type "A-2" and 12' of 12" Pipe Req'd.

+35.3, 18.5' Rt. STR. NO. 39
Exist. Storm M.H. Adjust Casting to Grade, Connect to New Strs. & Clean Out Pipe Downstream.

+35.5, 30.0' Rt. STR. NO. 40
Inlet Type "M-10" and 10' of 12" Pipe Req'd.

Indiana Harbor 4th. Add.

* Remove Existing Structures and Pipes that Conflict with the New Construction. (Typical)

Indicates Pavement Removal

38+78.4,24.3' Inlet (B–15)
38+78.8,19.7' Storm M.H.
38+78.8,58.4' End Fence
38+88.7,50.7' Controller (M)
38+94.0,50.2' Sign (No Trucks)
38+95.4,48.4' Sign
38+95.7,49.5' Sign (No Trucks)
38+96.2,38.9' Fence Cor.

39+83.1,45.1' Inlet
39+89.1,45.6' Sign (No Trucks Sym./Stop)

40+09.4,24.8' Inlet (M–10)

40+67.8,31.2' Sign (No Parking Any Time On Lt.P.)
40+68.1,31.4' Lt.P. (No No.)
40+70.2,39.9' End 6' C.L.T.F.

40+99.1,79.3' End 6' C.L.T.F.

41+30.8,24.1' Inlet (B–15)
41+36.3,70.2' Pwp. (No No.)
41+37.2,68.4' Pwp. (No No.)
41+41.4,62.2' Gy. W.

41+89.5,83.6' Sign (Pastor Parking Only)

42+17.7,45.2' Sign (Stop)

42+35.3,18.5' Storm M.H.
42+35.6,24.3' Inlet (B–15)

42+64.8,32.7' L.I.P. (No No.)

Cut "X" In Curb
Cut "X" In Walk
Mag. Spk. Nail
8.01'
26.96'
26.97'
107 NORTH 2330896.3330 EAST 2851106.8390
Control Pt. Sta. 37+21.91 Rt.

109 NORTH 2331237.4780 EAST 2851480.0150
34.38'
11.77'
22.16'
Control Pt. Sta. 42+27.47 Rt.

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

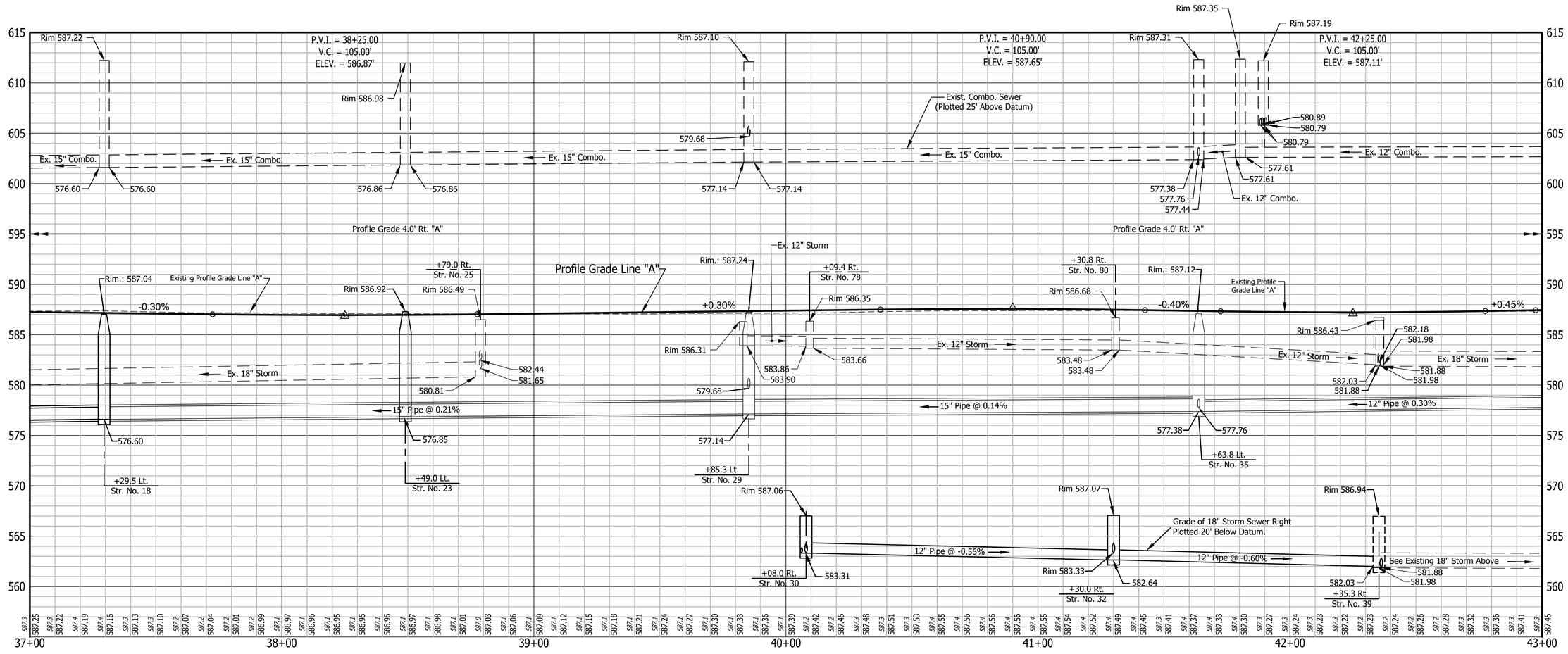
INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	10 of XX
CONTRACT	PROJECT
R–44001	2101118

B.M. NO. 12 Cut Square in Ltp. Fdn.
49+07.56 "A", 34.70 Rt., Elev. 586.98



RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	11 of XX
CONTRACT	PROJECT
R-44001	2101118

43 | 44 | 45 | 46 | 47

43+63.9,29.7' L.L.P. (No No.)

43+98.1.7' Sanitory M.H.

44+30.7,34.8' Pwp. (71-843)

SEC. 21, T37N, R9W
NORTH TOWNSHIP
LAKE COUNTY

44+92.2,39.7' End 6' C.L.F. w/Barbed Wire
44+93.39.8' GATE ST

45+22.9,40.2' GATE END

45+23.9,40.2' End 6' C.L.F.

45+47.2,1.9' Sanitory M.H.

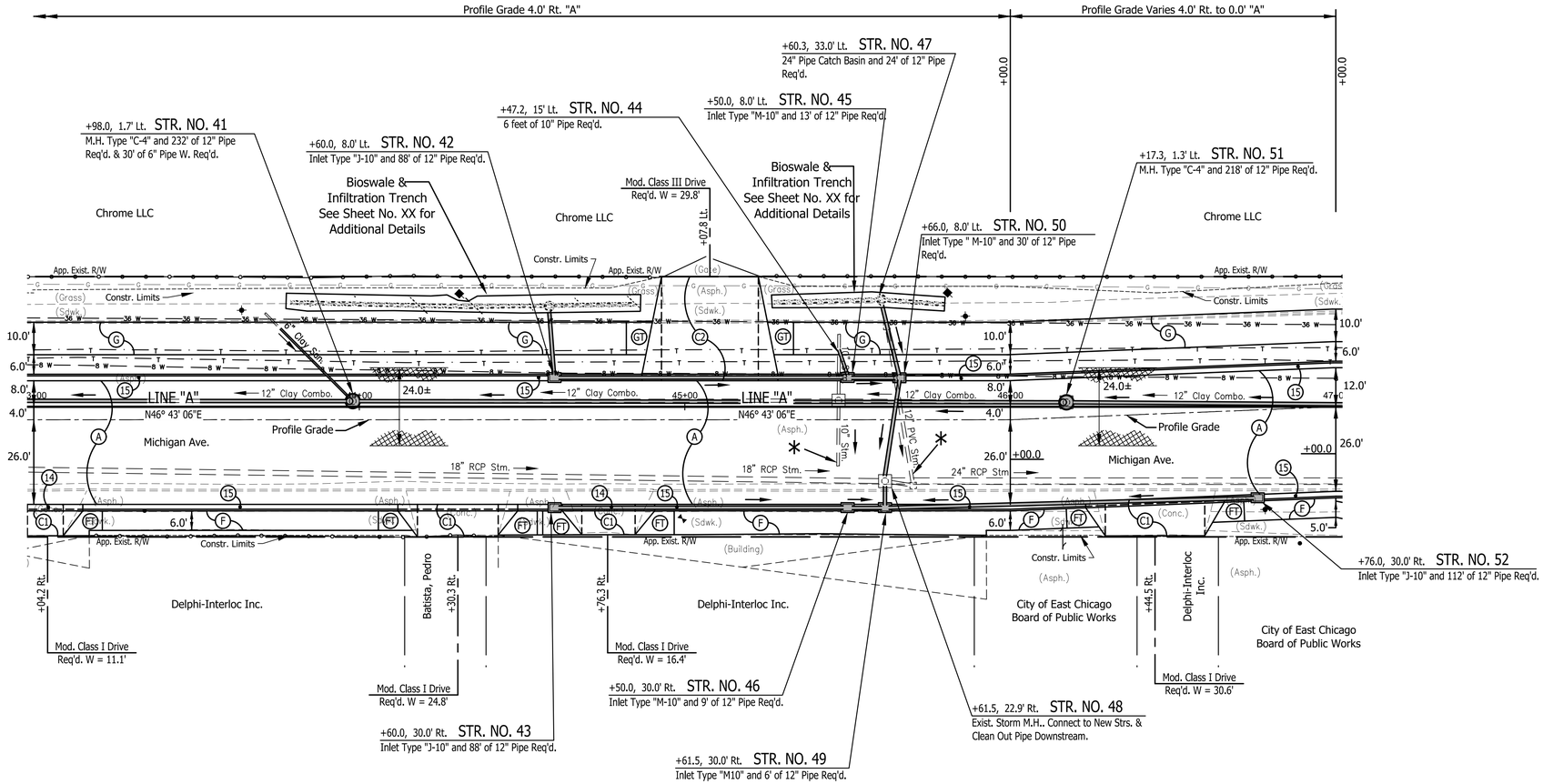
45+62.1,24.7' Inlet

45+80.7,35' Pwp. (71-842)

45+86.2,27.8' L.L.P. (No No.)

46+17.2,1.4' Sanitory M.H.

Standard Forgings Cos Pt Blk A



* Remove Existing Structures and Pipes that Conflict with the New Construction. (Typical)

Indicates Pavement Removal

Norlins Add.

43+17.4,39.6' End Fence

43+34,32' W.M.

44+41.9,39.9' End Fence

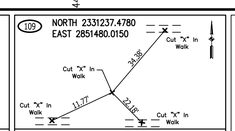
44+99.2,34.4' W.V.

45+61.5,22.9' Storm M.H.

45+70.2,24.2' Inlet

46+78.3,31.6' L.L.P. (No No.)

46+88.9,42' W.M.



Control Pt. Sta. 42+27.47 Rt.

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

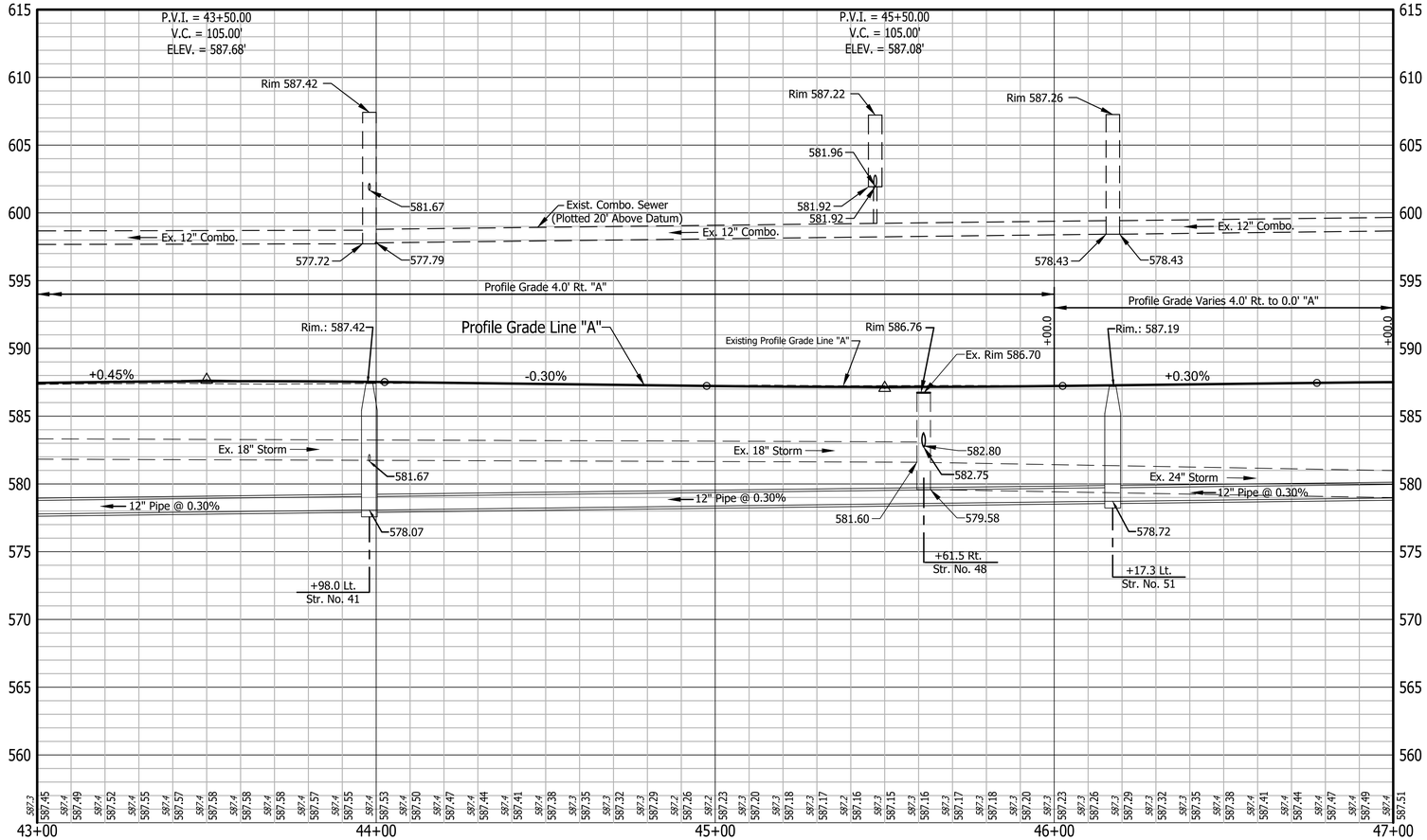
INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	12 of XX
CONTRACT	PROJECT
R-44001	2101118

B.M. NO. 12 Cut Square in Ltp. Fdn.
49+07.56 "A", 34.70 Rt., Elev. 586.98



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1" = 20' / VERTICAL SCALE: 1" = 5' / BRIDGE FILE: N/A / DESIGNATION: 2101118
DESIGNED: B.M.S./C.E.S.	DRAWN: B.M.S.	MICHIGAN AVENUE - LINE "A" PROFILE SHEET	SURVEY BOOK: N/A / SHEETS: 13 of XX
CHECKED: B.M.S./C.E.S.	CHECKED: S.H.S.		CONTRACT: R-44001 / PROJECT: 2101118

Street Appr. Req'd. Rt.
Sta. 48+32.4, W = 57.7'

Street Appr. Req'd. Lt.
Sta. 51+61.5, W = 52.6'

Street Appr. Req'd. Rt.
Sta. 51+68.4, W = 34.0'

47 | 48 | 49 | 50 | 51 | 52 | 53

47+63.6,38.1' Pwp. (95–673)
47+86.7,31.7' Lt. P.
48+13.6,21.4' Water M.H.
48+62.5,33.7' H.H. (Traffic)
48+68.2,30.8' Inlet (B–15)
48+68.8,40.5' Cor. 6" C.I. I.F.
48+70.3,7' W.V.
48+71.1,36.8' H.H. (Lighting)
48+77.9,5.8' W.V.
48+80.1,10.5' W.V.
48+86.6,16.7' Telephone M.H.
48+95.7,12.9' W.V.
49+05.1,8.3' W.V.
SEC. 21, T37N, R9W NORTH TOWNSHIP LAKE COUNTY
49+40.7,28.6' Storm M.H. (Plugged)
49+40.9,32.5' Inlet (B–15)
49+41.5,37.3' Pwp. (No No.)
49+59.5,37.3' Pwp. (71–839)
49+83.3,35.8' Gy. W.
49+84.3,163.2' End 6" C.I. I.F.
49+85.5,35.8' Gy. W.
49+88.5,35.8' Gy. W.
49+92.5,36.9' Lt.P. (No No.)
50+12.2,114.6' Pwp. (No No.)
50+84.4,35.8' W.V.
51+02.1,44.7' Mast Arm Pole
51+03.6,8.3' Det. Hsng.
51+08.3,47.5' Controller
51+11.6,43.7' H.H. (Lighting)
51+14.8,45.3' Inlet (B–15)
51+20.5,43.4' H.H. (Lighting)
51+25.3,49.4' Inlet (B–15)
51+34.1,65.3' H.H. (Lighting)
51+40.6,68.6' Det. Hsng.
51+45.4,17' Telephone M.H.
51+47.3,72' Detector Loop
51+52.1,17' Telephone M.H.
51+58.1,6.8' W.V.
51+58.4,70.2' Det. Hsng.
51+87.8,7.4' W.V.
51+90.2,77.8' H.H. (Lighting)
51+94.6,71.9' B.M. 13
51+95.1,72.4' Stl.Str.P.
52+10.1,38.4' Inlet (B–15)
52+12.1,43.4' Detector Loop
52+13.1,43.4' H.H. (Signal)
52+13.29' Detector Loop
52+17.6,27.5' Det. Hsng.
52+18.9,3.4' Det. Hsng.
52+19.5,14.2' Det. Hsng.
52+27.20,9' Detector Loop
52+27.9,5.1' Detector Loop
52+41.8,21.3' Detector Loop
52+44.1,9.6' Detector Loop
52+50.0,31.7' M.H. (Lighting)
SEC. 22, T37N, R9W NORTH TOWNSHIP LAKE COUNTY
52+95.7,52.2' Crabapple 2 in.

Standard Forgings Cos Pt Blk A

Indiana Harbor (Original Town)

App. N.E. Cor., Sec. 21, T37N, R9W

App. Section Line

Abandoned Parrish Ave.

Chrome LLC

Venegas, Jesus M & Jesus N Meraz

Uremovich, Michael J

City of East Chicago Board of Public Works

Harretos, Mabel G

City of East Chicago Department of Redevelopment

Michigan Ave.

Dickey Rd.

Hemlock St.

Parrish Ave.

LINE "A" N46° 43' 06"E

LINE "D" S46° 59' 09"E

SEE LINE "D" PLAN AND PROFILE FOR ADDITIONAL INFORMATION ON DICKEY RD.

P.O.T. 51+69.69 LINE "A" =
P.O.T. 20+00.00 LINE "D"
N. 2331910.4737
E. 2852140.5050

+77.0, 0.9' Rt. STR. NO. 60
M.H. Type "C-4" and 50' of 21" Pipe Req'd. Reconnect 28' of Exist. 10" Pipe (NW.)

+68.4, 12.0' Lt. STR. NO. 57
Inlet Type "J-10" and 34' of 12" Pipe Req'd. (Connect to Exist. 12" Pipe)

+31.1, 0.1' Rt. STR. NO. 55
M.H. Type "C-4" and 210' of 12" Pipe Req'd. Reconnect 27' of Exist. 12" Pipe (NW.)

+87.0, 12.0' Lt. STR. NO. 61
Inlet Type "M10" and 33' of 12" Pipe Req'd.

+00.0, 8.0' Lt. STR. NO. 64
Inlet Type "J-10" and 10' of 12" Pipe Req'd.

+51.0,57.5" Lt. STR. NO. 70
M.H. Type "C-4" and 54' of 15 " Pipe Req'd.

+33.8, 57.5' Lt. STR. NO. 66
Inlet Type "J-10" and 16' of 12" Pipe Req'd.

+63.3, 1.3' Rt. STR. NO. 71
M.H. Type "C-4" and 283' of 15" Pipe Req'd.

+91.3, 57.3' Lt. STR. NO. 74
Inlet Type "J-10" and 26' of 12" Pipe Req'd.

+00.0, 31.0 Lt STR. NO. 75
M.H. Type "C-4" and 52' of 12" Pipe Req'd.

+52.0, 57.5' Lt. STR. NO. 78
Inlet Type "J-10" and 50' of 12" Pipe Req'd.

+96.0, 30.0' Rt. STR. NO. 53
Furnish New Casting Type "15" on Existing Type B Inlet , Adjust Casting to Grade Req'd. clean out Pipe Downstream

+12.4, 32.6' Rt. STR. NO. 54
Exist. Storm C.B. Adjust Casting to Grade, & Clean Out Pipe Downstream

+68.8, 22.9' Rt. STR. NO. 58
Exist. Storm M.H. Adjust Casting to Grade & Clean Out Pipe Downstream

+75.2, 30.5' Rt. STR. NO. 59
Furnish New Casting Type "15" on Existing Type B Inlet , Adjust Casting to Grade Req'd.

+44.3, 71.3 Rt. STR. NO. 56
Clean Out Existing Inlet & Pipe Downstream

+87.0, 26.0' Rt. STR. NO. 63
Inlet Type "M-10" and 3' of 12" Pipe Req'd.

+00.0, 26.0' Rt. STR. NO. 65
Inlet Type "J-10" and 10' of 12" Pipe Req'd.

+87.0, 22.2' Rt. STR. NO. 62
M.H. Type "C-4" and 10' (5'S,5'N) of 24" Pipe Req'd. & Clean Out Pipe Downstream.

+30.0, 26.0' Rt. STR. NO. 67
Inlet Type "J-10" and 20' of 12" Pipe Req'd.

+50.5, 22.1' Rt. STR. NO. 68
M.H. Type "C-4" and 18' of 24" (8' S & 10' N) Pipe Req'd.

+51.0, 49.0' Rt. STR. NO. 69
Inlet Type "M-10" and 26' of 12" Pipe Req'd.

+63.3, 22.0' Rt. STR. NO. 72
M.H. Type "D-4" and 10' of 30" Pipe Req'd. (Connect to Exist. 30" Pipe)

+10.0, 23.0' Rt. STR. NO. 76
M.H. Type "C-4" and 42' of 18" Pipe Req'd.

+10.0, 29.2' Rt. STR. NO. 77
Inlet Type "J-10" and 5' of 12" Pipe Req'd.

+85.6, 39.8' Rt. STR. NO. 73
Inlet Type "J-10" and 36' of 12" Pipe Req'd.

Mod. Class III Drive Req'd. W = 31.2'

Mod. Class I Drive Req'd. W = 15.6'

Indiana Harbor All Lots 9 & 10 BL. 59

Indiana Harbor All Lots 14, 15 & 16 BL. 70

App. S.E. Cor., Sec. 21, T37N, R9W

✱ Remove Existing Structures and Pipes that Conflict with the New Construction. (Typical)

Indicates Pavement Removal

47+55,33.4' W.V.
47+94,2,37.7' H.H. (Lighting)
47+95,0,28.8' Inlet (B–15)
48+01.6,50.9' Inlet (A–8)
48+12.4,32.6' Storm M.H.
48+31.1,0.1' Sanitary M.H.
48+44.3,71.3' Inlet (Round Casting)
48+64.7,49.1' Sign (Stop)
48+68.8,22.9' Storm M.H.
48+69.4,40.7' Pwp. (No No.)
48+75.2,30.5' Inlet
48+77.0,0.9' Sanitary M.H.
48+82.0,2' C.B.
49+02.2,35.7' Fire Hydrant
49+06.7,35.7' Lt.P. (58)
49+07.6,34.7' B.M. 12
49+11.3,39.3' W.V.
49+99.1,36.6' W.V.
50+09.8,35.9' Lt.P. (No No.)
51+04.4,4.6' Det. Hsng.
51+04.8,15.8' Det. Hsng.
51+46.7,47.4' Stl.Str.P.
51+48.7,43.0' Fire Hydrant
51+50.4,36.7' Inlet (B–15)
51+50.5,22.1' Storm M.H.
51+63.3,1.3' Sanitary M.H.
51+76.9,57.5' Detector Loop
51+77.7,57.5' Detector Loop
51+77.3,42.7' Detector Loop
51+79.7,1' Sanitary M.H.
51+85.2,40.5' Det. Hsng.
51+90.3,42.8' H.H. (Lighting)
51+91.4,40.5' H.H. (Lighting)
51+92.2,29.5' Inlet (B–15)
52+02.4,36.6' Mast Arm Pole
52+29.2,102.5' Monitoring Well
52+45.8,31' L.P. (No No.)
52+81.6,82' Monitoring Well

Cop. Rebar Set
39.87
35.17
30.87
Cut "X" In Walk
Cut "X" In Walk
Cut "X" In Walk
114
NORTH 2332319.3330
EAST 2852489.0530
Control Pt. Sta. 57+03.74 Lt.

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

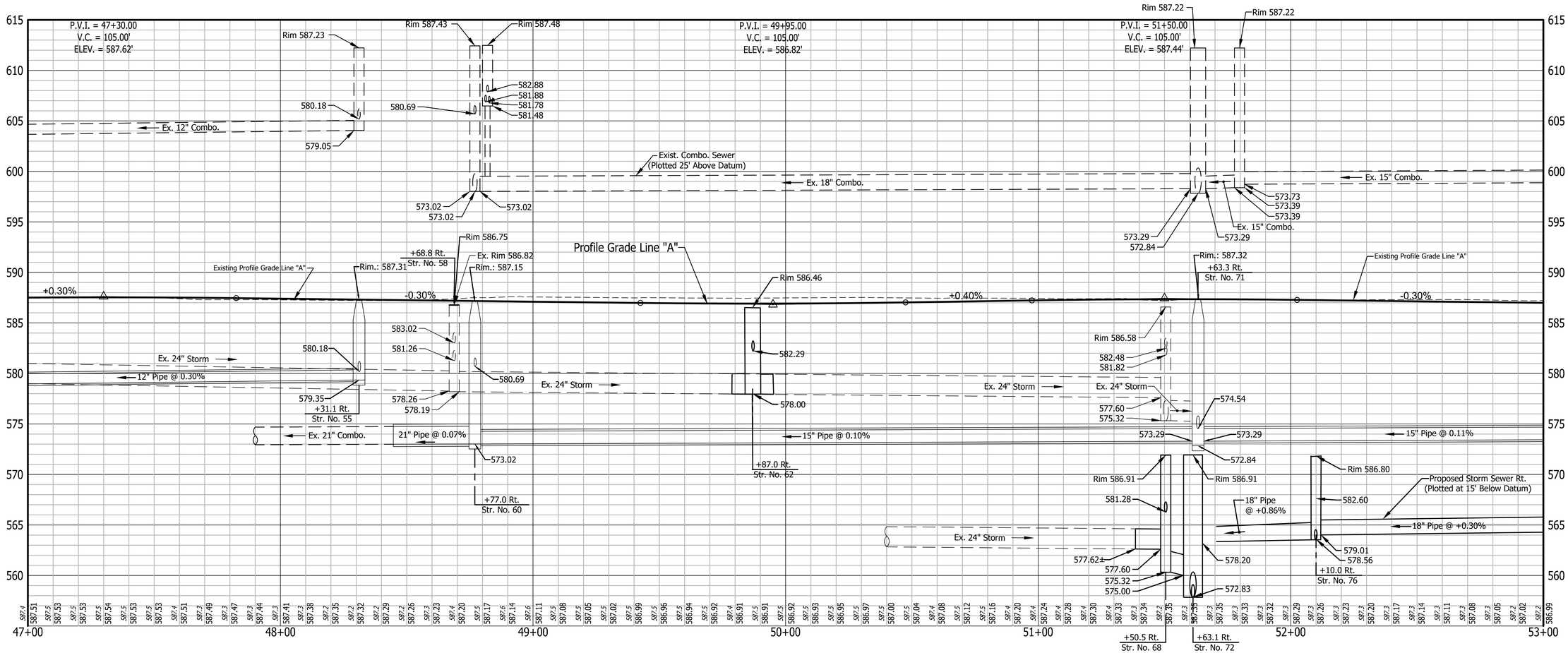
INDIANA DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A" PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	14 of XX
CONTRACT	PROJECT
R–44001	2101118

B.M. NO. 12 Cut Square in Ltp. Fdn.
49+07.56 "A", 34.70 Rt., Elev. 586.98

B.M. NO. 13 Cut Square Steel Strain Pole Fdn.
51+94.56 "A", 71.85 Lt., Elev. 587.00



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	15 of XX
CONTRACT	PROJECT
R-44001	2101118

Street Appr. Req'd. Rt. Sta. 57+17.0, W = 48.8'

Street Appr. Req'd. Lt. Sta. 57+50.0, W = 39.9'

53 | 54 | 55 | 56 | 57 | 58 | 59

53+12.5,21.7' H.H. (Electric)
53+54.1,60.1' Inlet
53+62.6,37.2' Crabapple 2 in.
54+22.0,38.0' Crabapple 2 in.
54+82.9,37.6' Crabapple 2 in.
53+54.1,58.5' Inlet
55+56.2,62.2' H.H. (Elec.)
55+79.0,44.0' End Sign (Manhattan Mechanical)
55+79.1,57.2' End Sign (Manhattan Mechanical)
55+80.3,56.5' Yard Light
55+80.8,60.7' Flag Pole
SEC. 22, T37N, R9W NORTH TOWNSHIP LAKE COUNTY
56+50.6,31.5' Conc. Fdn.
56+65.4,41' Sign (No Parking Any Time)
56+70.45,1' Pwr. (For Lighting)
57+02.4,40.6' Sign (To West 912 w/Arrow Right)
57+11.1,31.1' M.H. (Traffic)
57+15.2,31.9' B.M.
57+22.0,45.4' Sign (Stop)
57+24.0,27.9' Inlet
57+31.6,7.3' W.V.
57+35.4,10.6' W.V.
57+49.6,2' W.V.
57+57.3,17.2' Telephone M.H.
57+75.2,39.3' Inlet
57+75.7,47.7' G.M.
57+88.3,26.6' B.M. 14
57+88.4,28.2' Bollard Lp.
57+94.4,41.6' Sign (No Parking Any Time)
58+00.6,31.5' W.M.
58+10.1,30.6' Conc. Fdn. (Old Parking Meter)
58+24.9,32.1' W.M.
58+52.30,7' Conc. Fdn.

Indiana Harbor (Original Town)

+35.5, 0.4' Rt. STR. NO. 85
M.H. Type "C-4" and 270' of 15" Pipe Req'd.

+98.0, 27.5' Lt. STR. NO. 81
Inlet Type "M-10" and 50' of 12" Pipe Req'd.

+90.0, 27.5' Lt. STR. NO. 86
Inlet Type "M-10" and 90' of 12" Pipe Req'd.

+88.0, 27.5' Lt. STR. NO. 80
Inlet Type "J-10" and 8' of 12" Pipe Req'd.

+00.0, 27.5' Lt. STR. NO. 89
Inlet Type "J-10" and 108' of 12" Pipe Req'd.

+50.2, 1.0' Rt. STR. NO. 96
M.H. Type "C-4" and 312' of 15" Pipe and 10' of 15" Pipe S.E. & 40' of 15" Pipe Req'd. N.W.

+67.0, 29.7' Lt. STR. NO. 100
Inlet Type "M-10" and 52' of 12" Pipe Req'd.

+57.0, 29.7' Lt. STR. NO. 98
Inlet Type "J-10" and 8' of 12" Pipe Req'd.

Mod. Class III Drive Req'd. W = 51.1'
Mod. Class III Drive Req'd. W = 51.8'
Uremovich, Michael J
City of East Chicago Department of Redevelopment
Grand Blvd.
Michigan Ave.
LINE "A" N46° 43' 06"E
Constr. Limits
App. Exist. R/W
Remove Existing Curb
Do Not Disturb Existing Sidewalk
Match Exist. Face of Curb and Top of Curb Elev.

Garcia Family Group LLC

+78.0, 30.0' Rt. STR. NO. 79
Inlet Type "J-10" and 18 ' of 12" Pipe Req'd.

+98.0, 24.0' Rt. STR. NO. 82
M.H. Type "C-4" and 190' of 18" Pipe Req'd.

+98.0, 30.0' Rt. STR. NO. 83
Inlet Type "A-2" and 5' of 12" Pipe Req'd.

+26.0, 30.0' Rt. STR. NO. 84
Inlet Type "J-10" and 26' of 12" Pipe Req'd.

+99.9 Rt.
Mod. Class I Drive Req'd. W = 12.6'

+90.0, 24.0' Rt. STR. NO. 87
M.H. Type "C-4" and 90' of 18" Pipe Req'd.

+90.0, 30.0' Rt. STR. NO. 88
Inlet Type "J-10" and 5' of 12" Pipe Req'd.

+00.0, 24.0' Rt. STR. NO. 90
M.H. Type "C-4" and 108' of 18" Pipe Req'd.

+00.0, 30.0' Rt. STR. NO. 91
Inlet Type "J-10" and 5' of 12" Pipe Req'd.

+90.0, 48.0' Rt. STR. NO. 92
Inlet Type "A-2" and 28' of 12" Pipe Req'd.

+10.0, 24.0' Rt. STR. NO. 93
M.H. Type "C-4" and 108' of 18" Pipe Req'd.

+27.8, 44.8' Rt. STR. NO. 94
M.H. Type "C-4" and 5' of 15" Pipe Req'd.
(Connect to Exist. 15" Pipe)

City of East Chicago Department of Redevelopment

+47.1, 10.3' Rt. STR. NO. 95
M.H. Type "C-4" and 35' of 15" Pipe Req'd. & 20' of 6" Pipe (E.)

+50.2, 53.0' Rt. STR. NO. 97
Inlet Type "E-7" and 46' of 12" Pipe Req'd.

+67.0, 21.8' Rt. STR. NO. 101
M.H. Type "C-4" and 154' of 18" Pipe Req'd.

+67.0, 27.8' Rt. STR. NO. 102
Inlet Type " M-10" and 5' of 12" Pipe Req'd.

+57.0, 27.8' Rt. STR. NO. 99
Inlet Type "J-10" and 8' of 12" Pipe Req'd.

Indiana Harbor Lot 13 Bl. 70

Indicates Pavement Removal

* Remove Existing Structures and Pipes that Conflict with the New Construction. (Typical)

53+00.7,41.4' Cor. 6' C.L.T.F.
53+00.9,77' End 6' C.L.T.F.
53+12.2,31' Conc. Fdn.
53+12.4,21.2' Conc. Fdn.
53+75.7,31.8' L.L.P. (No No.)
54+26.2,40.8' End 6' C.L.T.F.
54+28.8,0.5' C.B. (Possible Buried)
54+31.9,28.5' Inlet
54+35.5,0.4' Sanitary M.H.
56+46.4,40.1' Conc. Fdn.
56+49.5,32.5' L.L.P. (No No.)
56+77.6,47.1' Fire Hydrant
56+78.4,47.6' W.V.
56+83.0,21.4' H.H.(Electric)
56+88.5,27.9' Inlet
57+14.8,80.5' G.V.
57+27.8,44.8' Sanitary M.H. (Brick)
57+40.1,22.4' C.B. (Brick)
57+47.1,10.3' Sanitary M.H.
57+48.7,0.9' W.M.
57+50.2,1' Sanitary M.H.
57+77.5,42.2' M.H.
57+80.2,27.9' Inlet
57+82.2,31' L.L.P. (No No.)
57+84.5,33.6' H.H. (Lighting)

Cop. Rebar Set
59.97'
24.17'
30.83'
Cut "X" in Walk
Cut "X" in Walk
Cut "X" in Walk
114
NORTH 2332319.3330
EAST 2852489.0530
Control Pt. Sta. 57+03.74 Lt.

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

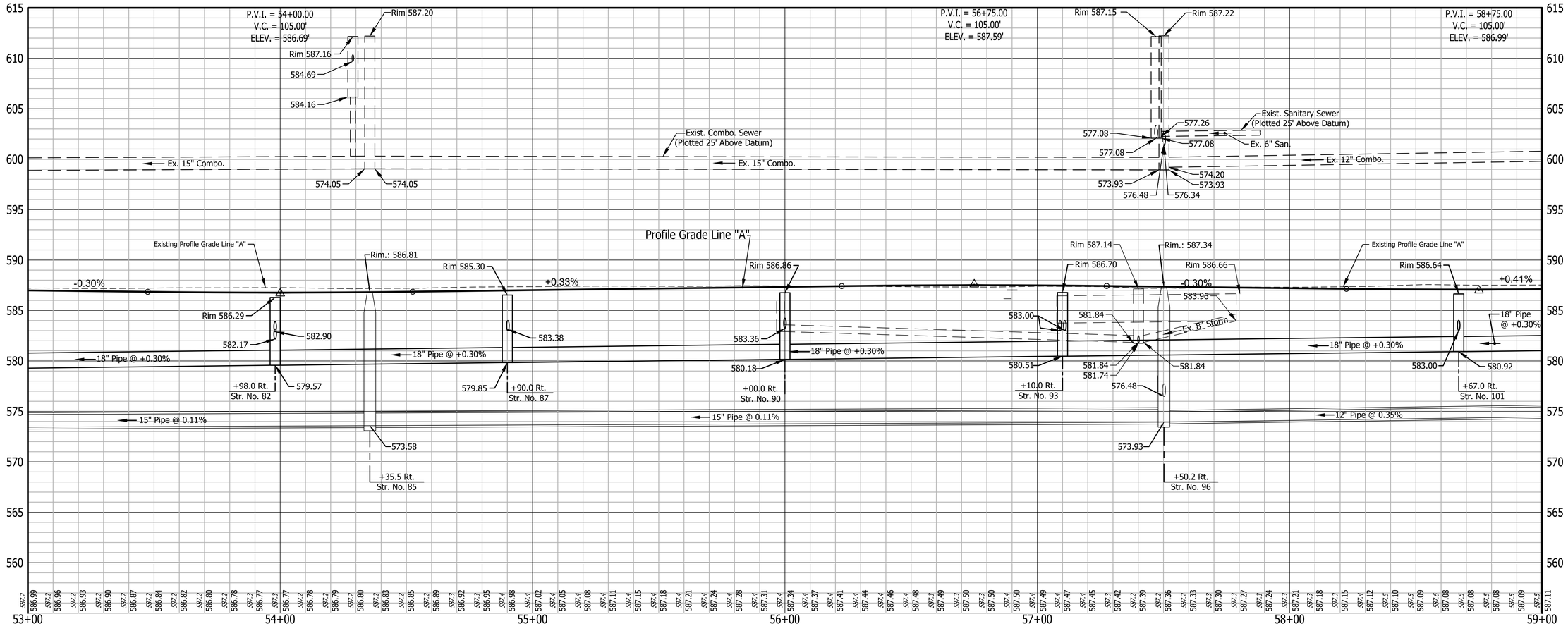
INDIANA DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A" PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	16 of XX
CONTRACT	PROJECT
R-44001	2101118

B.M. NO.	Cut Square in Old Signal Fdn. 57+15.21 "A", 31.93 Lt., Elev. 586.72

B.M. NO. 14	Cut Square in Old Signal Fdn. 57+87.99 "A", 32.60 Lt., Elev. 587.10



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	17 of XX
CONTRACT	PROJECT
R-44001	2101118

Street Appr. Req'd. Rt.
Sta. 60+68.1, W = 47.0'

Street Appr. Req'd. Lt.
Sta. 62+56.3, W = 42.0'

59 | 60 | 61 | 62 | 63 | 64

60+34.31.3' Lt.P. (No No.)
60+54.3,41.9' Sign (No Parking, Any Time)
60+58.7,6.2' W.V.
60+69.3,28.1' Inlet
SEC. 22, T37N, R9W
NORTH TOWNSHIP
LAKE COUNTY
61+33.8,31' Conc. Fdn.
61+73.8,31.3' Conc. Fdn.
61+86.9,9' W.V.
62+07.1,46.3' Sign (No Parking)
62+22.1,31.3' Old Lt. P. Fdn.
62+24.7,31.0' M.H. (Traffic)
62+27.4,32.9' Sign (Stop)
62+46.2,17.3' Telephone M.H.
62+50.1,6' W.V.
62+83.0,54.5' M.H. (Lighting)
62+83.1,9.8' W.V.
62+92.1,39.0' Old Lt. P. Fdn.
62+92.9,10.6' W.V.
62+94.5,41.3' Fire Hydrant
62+96.1,42.7' M.H. (Traffic)
63+01.1,29.4' Sign (Stop)
63+06.5,39.0' Lt.P.
63+09.6,47.7' W.V.
63+14.4,29.8' Lt.P.
63+15.1,47.8' Ash 8 IN
63+19.6,39.9' Tf. Box (CATV)
63+25.7,37.2' Post (Box Truss Sign Support)
63+32.6,37.3' Post (Box Truss Sign Support)
63+54.4,41' Lt.P. (Fire Department)
63+64.2,39.5' Ash 12 IN
63+97.8,7.0' W.V.

Indiana Harbor (Original Town)

Match Existing Profile Grade Thru Intersection

+30.0, 29.8' Lt. STR. NO. 103
Inlet Type "J-10" and 60' of 12" Pipe Req'd.

+20.0, 29.7' Lt. STR. NO. 104
Inlet Type "M-10" and 52' of 12" Pipe Req'd.

+69.8, 0.8' Rt. STR. NO. 108
M.H. Type "C-4" and 315' of 12" Pipe Req'd.

+10.0, 29.7' Lt. STR. NO. 111
Inlet Type "J-10" and 88' of 12" Pipe Req'd.

City of East Chicago
Department of Redevelopment

+00.0, 29.6' Lt. STR. NO. 113
Inlet Type "J-10" and 50' of 12" Pipe Req'd.

+05.0, 29.0' Lt. STR. NO. 116
Inlet Type "J-10" and 38' of 12" Pipe Req'd.

City of East Chicago
Department of Redevelopment

+45.0, 28.4' Lt. STR. NO. 117
Inlet Type "M-10" and 50' of 12" Pipe Req'd.

+90.9, 1.0' Rt. STR. NO. 120
M.H. Type "C-4" and 318' of 12" Pipe Req'd. & 30' of 6" Pipe Req'd. N.W.

+45.0, 22.0' Rt. STR. NO. 118
M.H. Type "C-4" and 142' of 15" Pipe Req'd.

+45.0, 29.1' Rt. STR. NO. 119
Inlet Type "J-10" and 5' of 12" Pipe Req'd.

+18.0, 27.9' Rt. STR. NO. 112
Inlet Type "J-10" and 32' of 12" Pipe Req'd.

+85.0, 22' Rt. STR. NO. 109
M.H. Type "C-4" and 62' of 18" Pipe Req'd.

+00.0, 22.0' Rt. STR. NO. 114
M.H. Type "C-4" and 114' of 15" Pipe Req'd.

+20.0, 22.0' Rt. STR. NO. 105
M.H. Type "C-4" and 150' of 18" Pipe Req'd.

+45.0, 48.0' Rt. STR. NO. 107
Inlet Type "J-10" and 48' of 12" Pipe Req'd.

+20.0, 27.8' Rt. STR. NO. 106
Inlet Type "J-10" and 5' of 12" Pipe Req'd.

+94.0, 48.0' Rt. STR. NO. 110
Inlet Type "M-10" and 26' of 12" Pipe Req'd.

+00.0, 27.9' Rt. STR. NO. 115
Inlet Type "J-10" and 5' of 12" Pipe Req'd.

Michigan Ave.
Guthrie St.
LINE "A"
N46° 43' 06" E
Constr. Limits
App. Exist. R/W
Remove Existing Curb
Match Exist. Face of Curb and Top of Curb Elev.
12" Clay Combo.
8" Clay Strm.
Do Not Disturb Existing Sidewalk
Managed East Chicago Housing Association Inc
City of East Chicago Department of Redevelopment
Overhead Signs on Box Truss
Raymond Wilson Park

Indiana Harbor Lot 13 Bl. 70

Indiana Harbor
L.9 Bl .68 All L.10 Bl.68

Indiana Harbor Ex. Se'ly

* Remove Existing Structures and Pipes that Conflict with the New Construction. (Typical)

Indicates Pavement Removal

59+11.9,31.6' Lt.P. (No No.)
59+50.3,1.1' Sanitary M.H.
60+05.6,31.1' H.H. (Signal)
60+26.1,32.6' Sign (912/One-Way)
60+33.0,31.6' Sign (912/One-Way)
60+34.6,43.4' Lt.P. (Decorative)
60+38.5,28.2' Inlet
60+42.0,42.1' Sign (Stop)
60+43.8,42.2' Fire Hydrant
60+58.5,64.4' W.V.
60+59.6,2.9' W.V.
60+61.2,31.4' W.V.
60+61.7,92' W.V.
60+69.8,0.8' Sanitary M.H.
60+79.6,66.9' W.V.
60+96.3,43.4' Lt.P. (Decorative)
61+06.7,28.1' Inlet
61+34.1,31.6' Conc. Fdn.
61+52.7,0.9' Sanitary M.H.
61+72.5,31.6' Lt. P. (No No.)
62+14.9,31.4' Sign (Stop)
62+37.0,65.5' Lt.P. (Decorative)
62+41.0,63.3' Sign (St. Names)
62+42.1,51.2' Inlet
62+45.7,42.4' W.V.
62+75.0,45.5' M.H.
62+85.7,68.3' Det. Hsrg.
62+89.5,46.2' Inlet
62+92.8,58.3' Sign (Stop)
62+93.6,64.4' Lt.P. (Decorative)
63+09.5,50.2' Locust 27 IN
63+10.1,14.3' Controller (P-1)
63+25.7,36.7' Post (Box Truss Sign Support)
63+32.6,37' Post (Box Truss Sign Support)
63+53.2,49' Locust 24 IN
63+68.7,49.8' Bench End
63+78.6,49.6' Bench End
63+87.7,38.4' Sign (To I-90 Chicago, Arrow Up)
63+90.9,1' Comb. M.H.
63+94.9,50.1' Locust 24 IN
63+96.7,39.9' H.H. (Signal)

Cut "X" In Lip. Fdn.
Cut "X" In Walk
45.45°
47.64'
Mag. Nail Set
116
NORTH 2332812.2594
EAST 2853165.5297
Control Pt. Sta. 65+34.15 Rt.

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

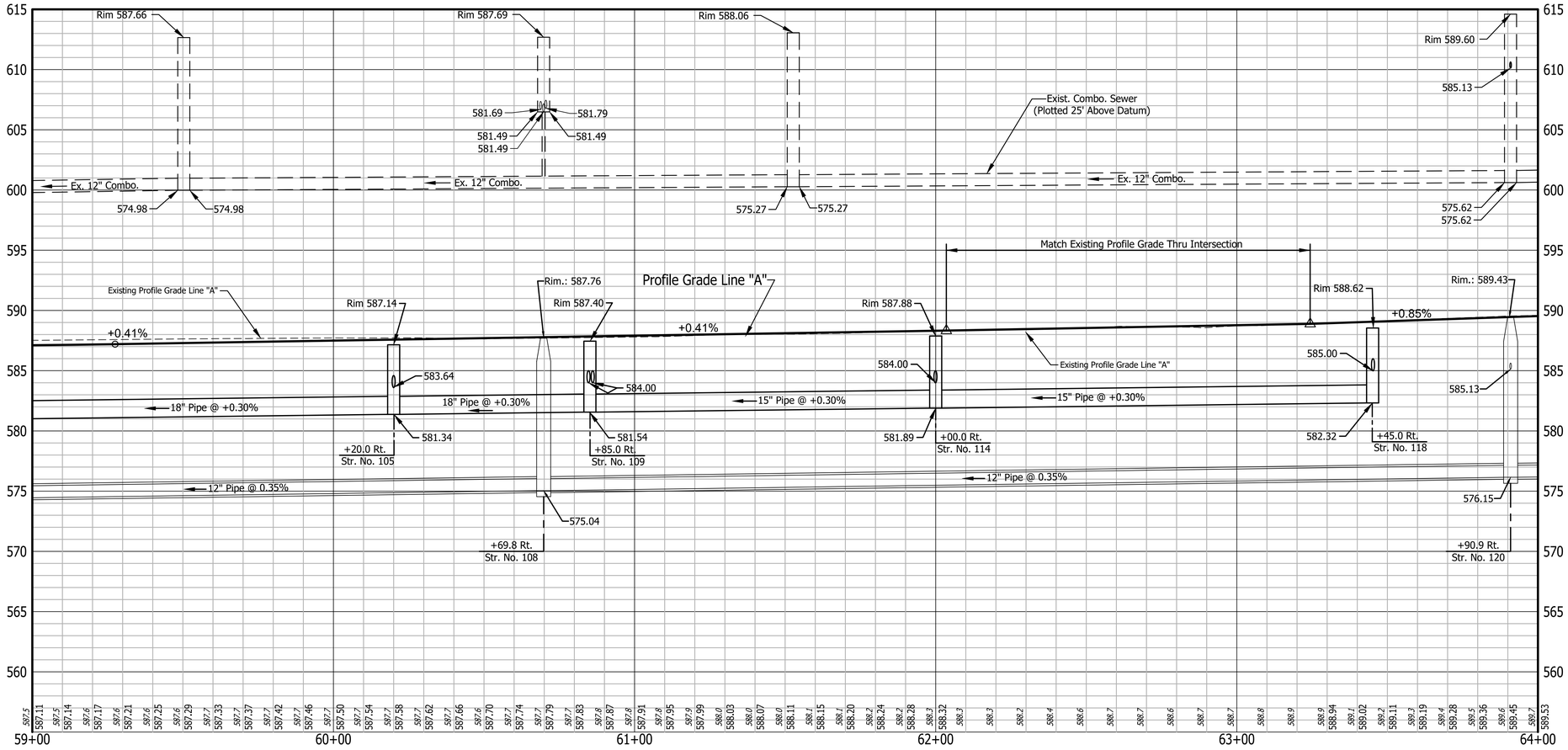
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	18 of XX
CONTRACT	PROJECT
R-44001	2101118

B.M. NO. 15 Top S.W. Anchor Bolt Steel Strain Pole
62+90.54 "A", 37.19 Lt., Elev. 589.12



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	19 of XX
CONTRACT	PROJECT
R-44001	2101118

Street Appr. Req'd. Rt.
Sta. 66+44.4, W = 29.6'

Street Appr. Req'd. Lt.
Sta. 66+92.5, W = 60.0'

64 | 65 | 66 | 67 | 68 | 69

64+05.4,42.4' Lt.P.

64+28.6,38.0' Lt.P.

SEC. 22, T37N, R9W
NORTH TOWNSHIP
LAKE COUNTY

65+40.6,23.8' Detector Loop
65+44.7,41.7' Conc. Fdn.
(Old Mast Arm)
65+45.7,33.6' Det. Hsng.
65+48.2,43.1' H.H. (Signal)

65+63.45' Lt.P. (No No.)

65+92.6,62.4' Sign
(Yield w/Do Not Enter)
65+95.3,79.7' Inlet
(E–7)

66+10.9,68.8' Inlet

66+46.6,63.9' Det. Hsng.
66+48.3,77.7' W.V.

66+55.5,16.2' Telephone M.H.

66+71.2,51.8' Sign (Do Not Enter w/Double One Way)

66+79.6,41.2' H.H. (Signal)

67+03.5,38.2' Fire Hydrant
67+08.5,38.2' W.V.

67+08.6,38' W.V.

67+15.3,33.3' W.V.

67+37.6,55.7' Sign End
(East Chicago Urban Enterprise Zone)
67+38.1,62.6' Sign End
(East Chicago Urban Enterprise Zone)
67+39.9,45.9' Lt.P.
(45–912–S12I)
67+47.4,39.8' Storm M.H.

67+47.5,38.9' Storm M.H.

67+49.5,85.9' Inlet (E–7)

67+58.2,36.8' Sign (No Parking Any Time)

67+71.3,50.9' H.H. (Signal)

67+87.9,100.6' Gy. W.

68+04.6,39.9' C.T.V. Con. Mkr.

68+20.6,44.3' Mast Arm Pole
68+23.6,140.9' Pwp.
(96–429)

68+31.5,84.1' Gy. W.

68+36.5,85.1' Gy. W.

68+41.3,87.8' Gy. W.

68+47.7,102.7' Cen. Conc. Fdn.
68+48.1,98.5' End Sign
(Mich. Ave.)
68+52.6,87.1' End Sign
(Mich. Ave.)
68+55.5,102.1' Cen. Conc. Fdn.
68+59.6,75.2' Det. Hsng.

68+77.2,72.7' Det. Hsng.

Resub. L. 8 TO 19, Bl. 33
Indiana Harbor

+47.4, 39.8' Lt. STR. NO. 127
Existing Storm MH

+81.5, 27.5' Lt. STR. NO. 123
Inlet Type "M-10" and 5' of 12" Pipe Req'd.
Connect to Exist. 12" Pipe N.W.

+45.9, 27.5' Lt. STR. NO. 126
Inlet Type "M-10" and 8' of 12" Pipe Req'd.

City of East Chicago
Department of Redevelopment

Norfolk Southern
Railway Company

City of East Chicago

Exit Ramp

Constr. Limits

App. Exist. R/W

12" RCP Stm.

24" RCP Stm.

Block Ave.

LINE "A"
N46° 43' 06"E

Michigan Ave.

12" Clay Combo.

12" Clay San.

PC: 68+91.30 LINE "A"
N = 2333090.7814
E = 2853393.8259

Managed East Chicago
Housing Association Inc

Norfolk Southern Railway
Company

City of East Chicago
Department of Waterworks

Overhead Sign

City of East Chicago
Department of Waterworks

+26.1, 27.0' Rt. STR. NO. 121
M.H. Type "C-4" and 360' of 12" Pipe Req'd.

+64.5, 30.0' Rt. STR. NO. 122
Inlet Type "J-10" and 60' of 12" Pipe Req'd.

+39.2, 0.4' Rt. STR. NO. 124
M.H. Type "C-4" and 345' of 12" Pipe Req'd.
& 122' of 12" Pipe (NE)

+44.9, 30.0' Rt. STR. NO. 125
Inlet Type "J-10" and 58' of 12" Pipe Req'd.

+51.0, 43.8' Rt. STR. NO. 128
Apparent Existing Storm MH Could Not Find

+58, 33.' Rt.+/- STR. NO. 129
Inlet Type "J-10" and 10' of 12" Pipe Req'd.

+89.7, 27.9' Rt. STR. NO. 130
M.H. Type "C-4" and 5' of 18" Pipe Req'd. N.W.
& 5' of 18" Pipe Req'd. E.

Indiana Harbor Blk. 47
Lots 1 to 24

* Remove Existing Structures and Pipes that Conflict with the New Construction. (Typical)

Indicates Pavement Removal

64+01.9,43.7' Sign (Junction 912 Double Post w/No Parking Any Time)
64+10.7,43.5' Storm M.H.

64+25.9,39.5' L.P. (No No.)

64+29.9,45.8' Woodbox Planter

64+35,45.8' Woodbox Planter

64+51.9,49' Locust 12" IN

64+71.7,49.3' Locust 12" IN

64+91.9,49.4' Locust 12" IN

65+12.8,44.8' End Fence

65+16.8,45.4' Pwp. (105–244)

65+26.1,27' Sanitary M.H.

65+45.5,38.7' B.M. 16

65+45.6,38.7' B.M. 10

65+46.2,40' Lt.P. (No No.)

65+64.4,32.2' Inlet

66+02.8,43.6' Sign
(No Left Turn Sym.)
66+09.2,42.9' Gy. W.
66+09.8,49.0' Pwp. (91–858
w/Transformer & Service Point)

66+21.8,59.8' H.H. (Lighting)

66+24.7,53.1' Old Stl.Str.P. Fdn.

66+35.4,40.8' W.V.

66+59.7,56.6' Det. Hsng.
66+62.5,62' Sign (Stop)

66+71.8,44.2' L.P. (No No.)

66+81.3,44.7' Cor. O.H. Sign
(Joblin)

66+84.2,38.5' Stl.Str.P.

66+84.6,44.6' Cor. O.H. Sign
(Joblin)

66+90.4,38.2' Controller (P–1)

66+94.5,38.5' End 6" Cst.I.F.

67+39.2,0.4' Comb. M.H.

67+44.9,31.8' Inlet (Plugged)

68+10.8,6.7' Det. Hsng.
68+13.9,38.5' M.H. (Traffic)

68+49.0, 39.0' Sign (Do Not Pass)
68+51.0, 43.8' M.H. Storm
68+54.7, 48.4' Sign
(South IN. 912 w/Arrow up, Double Post)
68+56.2, 40.5' Sign
(South IN. 912 w/Arrow Rt.)
68+57.2, 43.7' Inlet

68+75.4,44.0' Controller

68+81.8,45.5' Mast Arm Pole

68+89.7, 27.9' M.H. Sanitary

Control Pt. Sta. 65+34.15 Rt.
116 NORTH 2332812.2594
EAST 2853165.5297
Cut "X" In Ltp. Fdn.
Cut "X" In Walk
Mog. Nail Set
14.35'
41.64'

Control Pt. Sta. 67+88.83 Lt.
118 NORTH 2333062.1619
EAST 2853280.0134
Cut "X" In Walk
Mog. Spk. Nail
60.00'
25.04'
28.17'
Cut "X" In Walk
Cut "X" In Walk

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

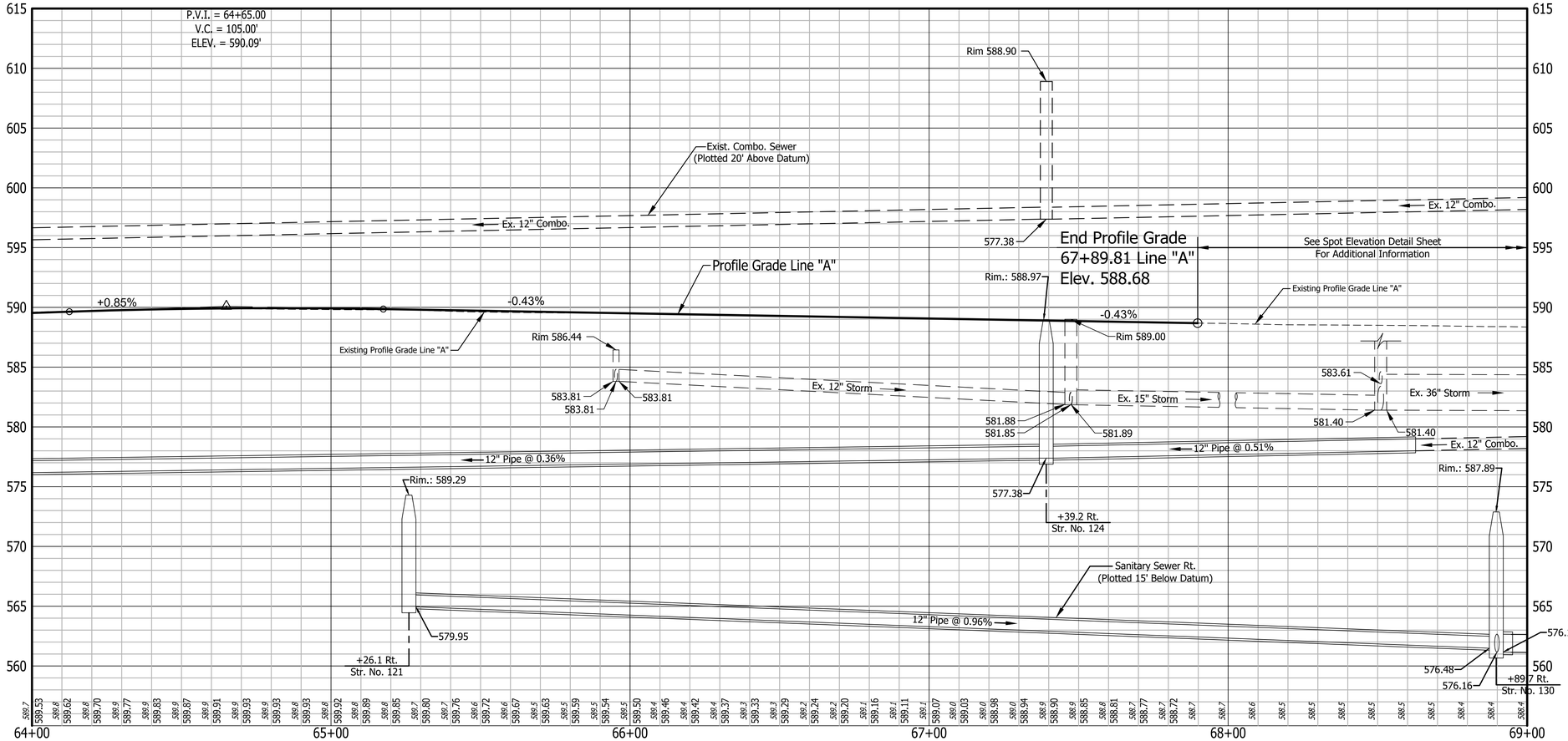
MICHIGAN AVENUE - LINE "A"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	20 of XX
CONTRACT	PROJECT
R–44001	2101118

B.M. NO. 10	Cut Square in Ltp. Fdn. 65+45.60 "A", 38.70 Rt., Elev. 589.70

B.M. NO. 11	Cut Square Mast Arm Pole Fdn. 68+19.02 "A", 43.86 Lt., Elev. 589.17



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1" = 20' / BRIDGE FILE: N/A VERTICAL SCALE: 1" = 5' / DESIGNATION: 2101118
DESIGNED: B.M.S./C.E.S.	DRAWN: B.M.S.	MICHIGAN AVENUE - LINE "A" PROFILE SHEET	SURVEY BOOK: N/A / SHEETS: 21 of XX
CHECKED: B.M.S./C.E.S.	CHECKED: S.H.S.		CONTRACT: R-44001 / PROJECT: 2101118

Street Appr. Req'd. Lt.
Sta. 66+92.5, W = 60.0'

69

69+41.7, 77.0' Inlet
69+46.1, 49.5' Traf. Sig. Ped.

69+69.6, 43.2' Sign
(Do Not Enter)

69+92.1, 42.1' Sign
(Cline Ave. Bridge)

70

71

72

SEC. 22, T37N, R9W
NORTH TOWNSHIP
LAKE COUNTY

Resub. L. 8 TO 19, Bl. 33
Indiana Harbor

End Incidental Construction
P.O.C. 70+00.00 Line "A"

Callahan Pl.

PT: 71+49.58 LINE "A"
N = 2333149.2063
E = 2853633.7538

LINE "A"
S74° 05' 24"E

Block Ave.

Constr. Limits

Begin Incidental Construction
End Project 2101118
P.O.C. 69+31.00 Line "A"

+66.0, 50.0' Rt. STR. NO. 131
Inlet Type "J-10" and 20' (5' N & 15' SE) of 12" Pipe Req'd.

+72.0, 67.2' Rt. STR. NO. 132
Existing Storm M.H.

Curve Data
P.I. 70+33.30 "A"
Δ = 59°11'30"
L = 258.27'
R = 250.00'
T = 142.00'
E = 37.51'
S.E. = Match Exist.

App. Exist. R/W

Indiana Harbor Blk. 47
Lots 1 to 24

Indicates Pavement Removal

69+42.3, 58.2' M.H. (Traffic)
69+46.7, 5.1' Sign (Do Not Enter)
69+72.0, 67.2' M.H. Storm
69+82.8, 5.1' Sign (S.L. 25)
69+90.4, 81.3' Inlet or CB

70+25.6, 8.1' Inlet
70+26.0, 4.2' Inlet

70+55.0, 91.6' Post (Box Truss Sign Support)

70+66.4, 91.1' Post (Box Truss Sign Support)

71+36.6, 0.2' Inlet
71+36.7, 4.1' Inlet
71+40.3, 77.0' M.H. Storm
71+51.7, 96.7' Inlet

Control Pt. Sta. 65+34.15 Rt.
116 NORTH 2332812.2594 EAST 2853165.5297

Control Pt. Sta. 67+88.83 Lt.
118 NORTH 2333062.1619 EAST 2853280.0134

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

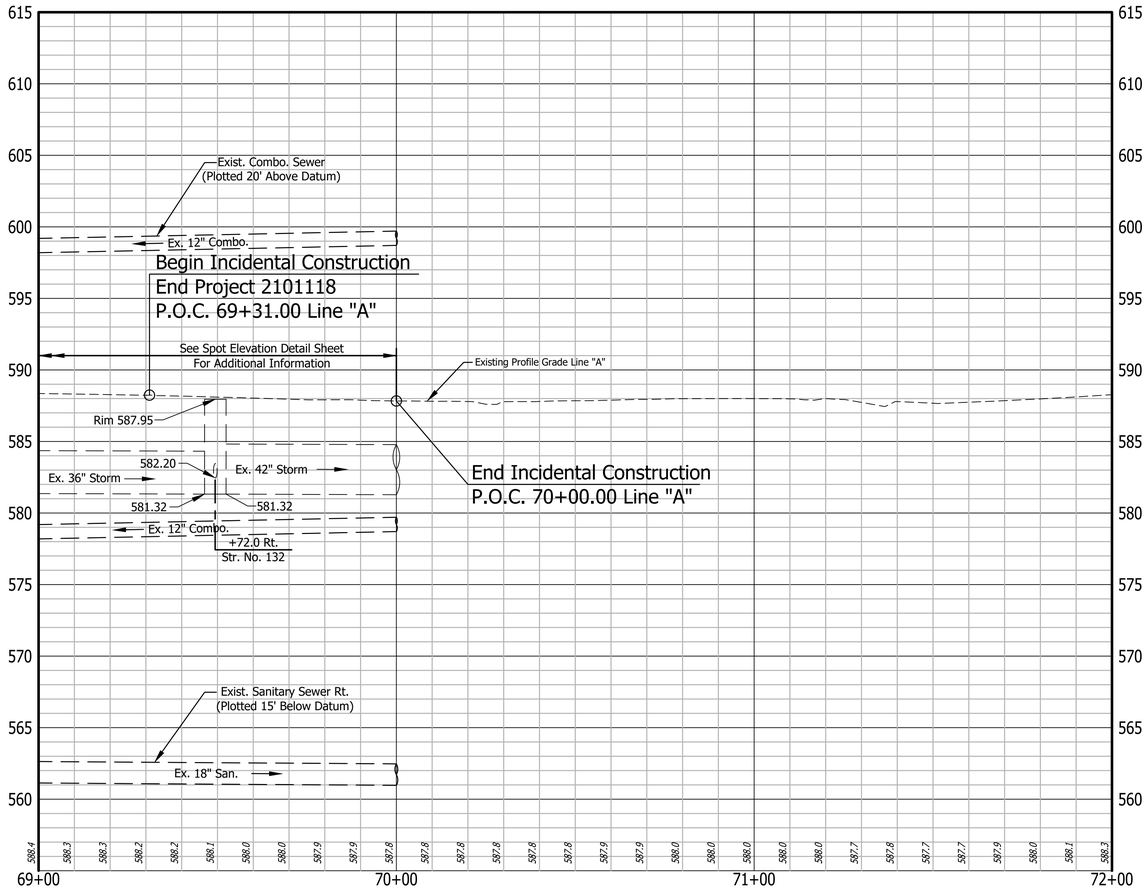
INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	22 of XX
CONTRACT	PROJECT
R-44001	2101118

B.M. NO. 11 Cut Square Mast Arm Pole Fdn.
68+19.02 "A", 43.86 Lt., Elev. 589.17



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE - LINE "A"
PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS		
N/A	23	of	XX
CONTRACT	PROJECT		
R-44001	2101118		

Mod. Street Appr. Req'd. Lt.
Sta. 16+90, W = 34'

Mod. Alley Appr. Req'd. Lt.
Sta. 18+36, W = 13.3'

16 | 17 | 18 | 19 | 20

15+78.6,26.6' Pwp. (94–970)
16+30.8,22.8' H.H. (Lighting)
16+44.2,22.6' Mast Arm Pole
16+46.1,25.3' End 6' C.L.T.F.
16+57.7,28.5' End 6' C.L.T.F.
16+61.6,27.6' Inlet
17+06.2,51.5' Inlet
17+15.2,52.5' Inlet
17+17.4,38.2' H.H. (Signal)
17+21.5,45.9' Gy. W.
17+23.4,24.2' Inlet
17+23.5,33.7' Mast Arm Pole
17+32.1,32.7' Trf. Cntrl. (Type M)
17+40.9,25.1' Cor. 6' C.L.T.F.
17+42.9,22.2' Pwp. (w/2–Serv. Points & Elec. Drop)
17+47.3,23.2' H.H. (Lighting)
17+56.8,21.1' Lt. P. w/Signal Head
17+91.6,24.9' Gy. W.
17+96.2,24.4' Gy. W.
18+01.8,25.0' Gy. W.
18+30.4,42.5' Pwp. (No No.)
19+25.1,32.2' Lt.P.
19+29.3,29.5' H.H. (Lighting)
19+31.5,33.1' SMH. 13"
19+62.0,47.9' M.H. (Signal)
19+65.6,44.7' Inlet (B–15)
19+76.3,46.4' Detector Loop
19+78.1,50.8' Det. Hsng.
19+77.0,53.1' L.T. P.
19+77.0,83.4' M.H. (Lighting)
19+85.9,59.4' Detector Loop
19+87.3,74.1' Detector Loop
19+91.7,51.1' Det. Hsng.
19+94.7,18.9' W.V.

SEC. 21, T37N, R9W
NORTH TOWNSHIP
LAKE COUNTY

SEC. 22, T37N, R9W
NORTH TOWNSHIP
LAKE COUNTY

App. N.E. Cor.,
Sec. 21, T37N, R9W

App. Section Line

Indiana Harbor
(Original Town)

SEE LINE "A" PLAN AND PROFILES FOR
ADDITIONAL INTERSECTION INFORMATION
WITH MICHIGAN AVE.

Lake County Trust Company

Watling St.

App. Exist. R/W

No Change to Str. Req'd.

No Change to Str. Req'd.

3477 Watling Corp

Alley

Uremovich, Michael J

Approximate Limits of
Newly Constructed Full
Depth Pavement on
Watling St.

No Change to
Str. Req'd.

+24.0, 21.5' Lt. STR. NO. 133
Inlet Type "J-10" and 34' of 12" Pipe Req'd.

Construct New Curb
and Gutter and Walk
to Match Edge of
Existing Curb Ramp

P.O.T. 20+00.00 LINE "D" =
P.O.T. 51+69.69 LINE "A"
N. 2331910.4737
E. 2852140.5050

+57.0, 18.0' Lt. STR. NO. 138
Inlet Type "J-10" and 34' of 12" Pipe Req'd.

LINE "A"
N46° 43' 06"E

Michigan Ave.

15" Clay Combo.

App R/W

12" PVC Stm.

20" Rcp

12" PVC

12" DIP Stm.

+00.3
24.4'

+36.1
18.0'

+35.0
18.3'

+45.0
18.0'

+99.8
18.0'

+82 Rt.

Dickey Rd.

LINE "D"
S49° 59' 09"E

Begin Construction
P.O.T. 16+45.00 Line "D"

+24.0, 12.0' Rt. STR. NO. 134
M.H. Type "C-4" and 114' of 12" Pipe Req'd.

+24.0, 18.3' Rt. STR. NO. 135
Inlet Type "J-10" and 5' of 12" Pipe Req'd.

+40.0, 18.0' Rt. STR. NO. 137
Inlet Type "J-10" and 4' of 12" Pipe Req'd.

+40.0, 12.0' Rt. STR. NO. 136
M.H. Type "C-4" and 98' of 12" Pipe Req'd.

Mod. Class III Drive
Req'd. W = 32'

SEE LINE "A" FOR
CONTINUING STRUCTURE
INFORMATION

End Construction
P.O.T. 19+79.49 Line "D"

Chrome LLC

Venegas, Jesus M &
Jesus N Meraz

End New Curb and
Gutter and Sidewalk
at 17+35, Match
Existing

Abandoned Parrish Ave.

Standard Forgings Cos Pt Blk A

App. S.E. Cor.,
Sec. 21, T37N, R9W

SEE LINE "A" PLAN AND PROFILES FOR
ADDITIONAL INTERSECTION INFORMATION
WITH MICHIGAN AVE.

16+38.5,26.8' Sign (South Ind. 912/Arrow Left)
16+44.6,26.4' Pwp. (No No.)
16+48.4,33.8' Mast Arm Pole
16+49.8,37.1' Cor. 6' C.L.T.F.
16+70.7,32.5' Tele. M.H.
17+09.9,50.8' End 6' C.L.T.F.
17+18.6,27.1' H.H. (Lighting)
17+25.0,28.4' Mast Arm Pole
17+29.9,52.0' H.H. (Lighting)
17+33.0,30.2' End Pwp. (On ground)
17+38.2,62.5' 2' X 2' Lighting Fdn.
17+45.8,61.6' Inlet
17+54.6,92.0' Cor. 6' C.L.T.F.
17+63.7,25.2' Sign (To I90/Chicago Skyway/Arrow Left)
17+75.0,28.9' End Guardrail
17+75.2,29.3' End Pwp. (On ground)
17+76.1,27.9' Sign (No Trucks)
17+76.6,24.0' H.H. (Lighting)
17+81.7,19.0' Inlet
17+82.3,48.2' Inlet
17+98.8,34.8' Inlet
18+15.4,82.9' Pwp. (No No.)
18+17.1,84.1' Pwp. (101–577)
18+62.4,1.7' Detector Loop
18+77.1,1.5' Detector Loop
18+80.0,12.8' Detector Loop
18+92.8,1.9' Detector Loop
18+94.9,13.0' Detector Loop
19+06.9,2.4' Detector Loop
19+10.0,12.8' Detector Loop
19+25.8,13.8' Detector Loop
19+28.5,20.9' Det. Hsng.
19+29.0,31.1' Det. Hsng.
19+31.0,27.7' H.H. (Lighting)
19+40.1,43.0' H.H. (Lighting)
19+42.7,48.7' L.T.P.
19+45.7,55.4' Controller (P–1)
19+45.7,38.3' Inlet (B–15)
19+47.5,62.1' Mast Arm Pole
19+49.8,52.6' H.H. (Lighting)
19+54.5,80.5' W.V.
19+80.3,22.2' Telephone M.H.
19+81.1,15.5' Telephone M.H.
19+84.1,64.6' Det. Hsng.
19+91.9,10.7' W.V.
19+96.9,65.4' Det. Hsng.

Cap. Rebar Set
39.87
39.87
Cut "X" In Walk
Cut "X" In Walk
Cut "X" In Walk
114
NORTH 2332319.3330
EAST 2852489.0530
Control Pt. Sta. 57+03.74 Lt.

RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER DATE

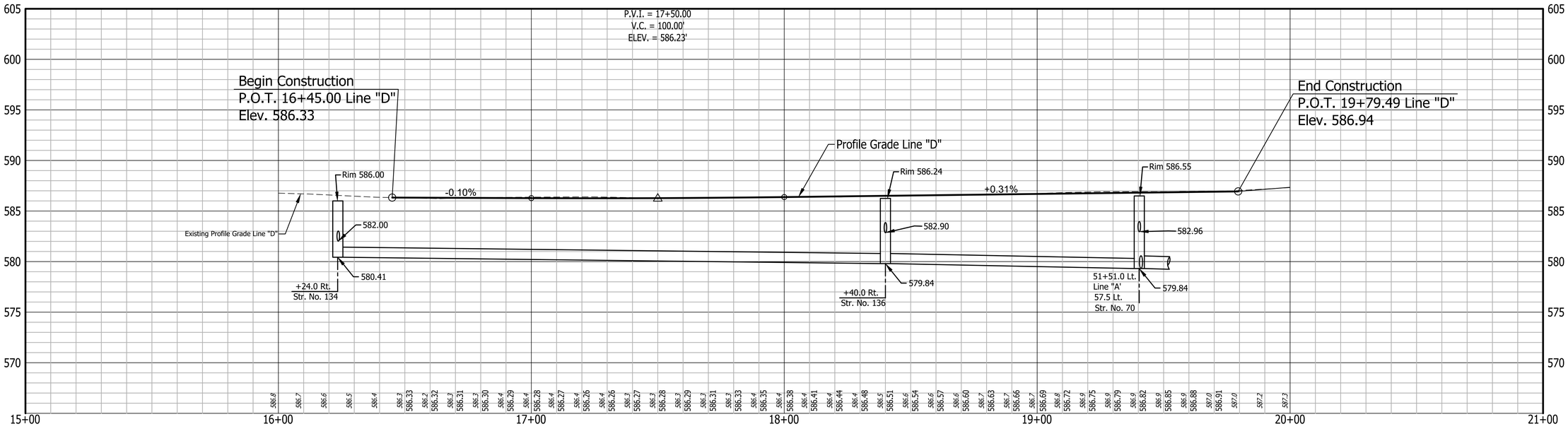
DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

DICKEY ROAD - LINE "D"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	24 of XX
CONTRACT	PROJECT
R–44001	2101118

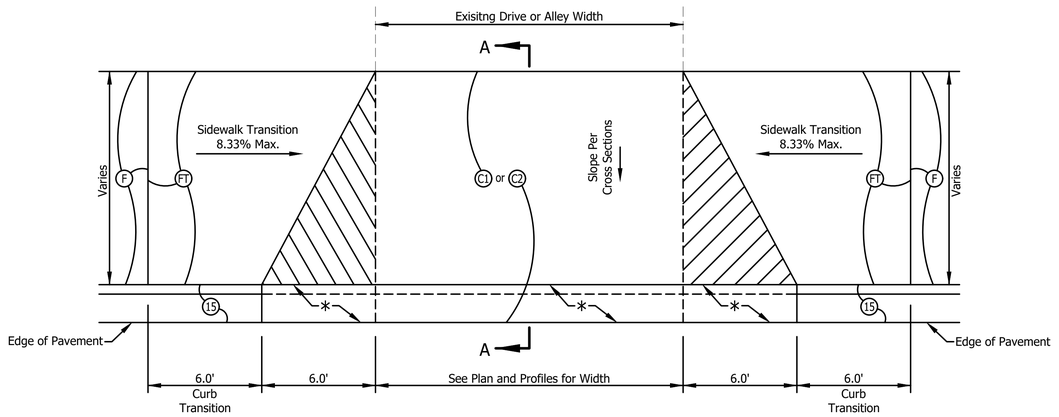
B.M. NO. 12	Cut Square in Ltp. Fdn. 49+07.56 "A", 34.70 Rt., Elev. 586.98
B.M. NO. 13	Cut Square Steel Strain Pole Fdn. 51+94.56 "A", 71.85 Lt., Elev. 587.00



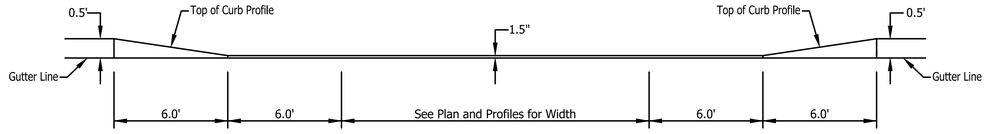
DICKEY ROAD - LINE "D"
PROFILE SHEET

Legend

- (A) 165 #/syd. Hma Surface Type D, 9.5 mm On
  275 #/syd. Hma Intermediate Type D, 19.0mm On
  660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On
  3" Compacted Aggregate No. 53, On
  Subgrade Treatment Type IC
- (A1) 165 #/syd. Hma Surface Type D-SMA, 9.5 mm On
  275 #/syd. Hma Intermediate Type D, 19.0mm On
  660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On
  3" Compacted Aggregate No. 53, On
  Subgrade Treatment Type IC
- (C1) PCCP for Approaches 6" on
  Dense Graded Subbase, on
  Subgrade Treatment Type II
- (C2) PCCP for Approaches 9" on
  Dense Graded Subbase, on
  Geogrid Type 1B, on
  Subgrade Treatment Type II
- (CR) Curb Ramp, Concrete
- (F) Sidewalk, Concrete
- (FT) Sidewalk Elevation Transition
- (G) HMA Sidewalks:
  140 #/syd. Hma Surface Type B On
  220 #/syd. Hma Intermediate Type B On
  6" Compacted Aggregate No. 53
  Subgrade Treatment Type III
- (GT) HMA Elevation Transition
- (R) Milling, Asphalt 1 1/2" with
  165 #/syd. Hma Surface Type D-SMA, 9.5 mm
- (T) Asphalt Material For Tack Coat
- (14) Concrete Roll Curb
- (15) Combined Concrete Curb And Gutter
- (26) Sodding (Nursery) W/topsoil
  (4" As Required Under Sodding)
- (27) Seed Mixture, U

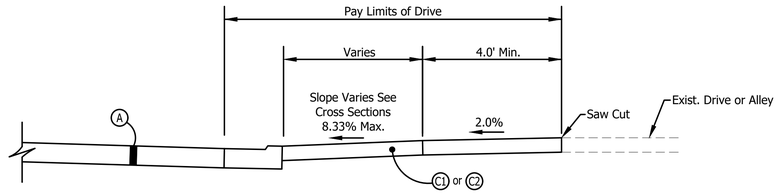


Plan

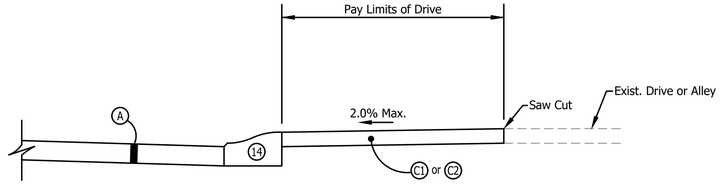


Profile

Note: All Preformed Joint Filler to be Included in the Cost of the Drive and Sidewalk



Section A-A



Section A-A
(Concrete Roll Curb)

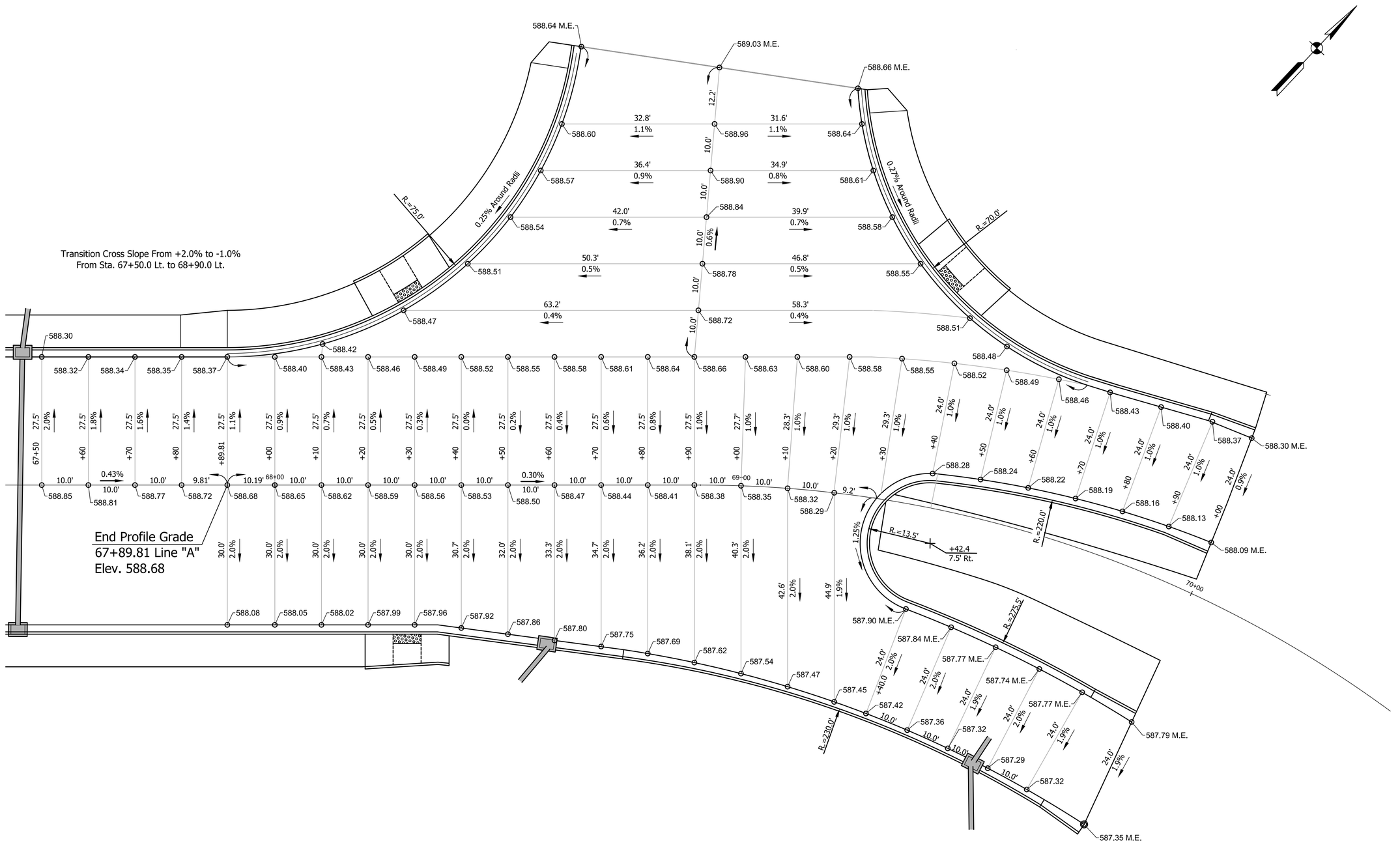
* Concrete Roll Curb Locations

40+58.0 Rt.
43+04.2 Rt.
44+76.3 Rt.
49+67.6 Rt.
53+99.9 Rt.

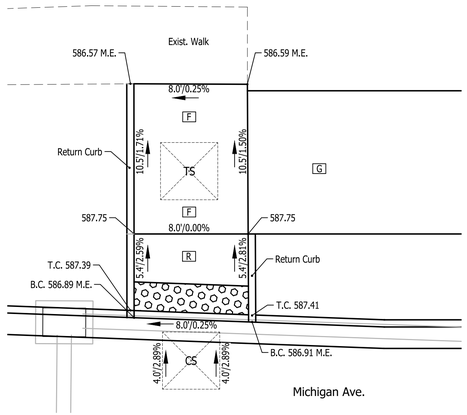
Concrete Drives and Alley Details

Not to Scale

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: NOT TO SCALE / VERTICAL SCALE: N/A; BRIDGE FILE: N/A; DESIGNATION: 2101118
DESIGNED: B.M.S./C.E.S.	DRAWN: B.M.S.	CONSTRUCTION DETAILS	SURVEY BOOK: N/A; SHEETS: 26 of XX
CHECKED: B.M.S./C.E.S.	CHECKED: S.H.S.		CONTRACT: R-44001; PROJECT: 2101118

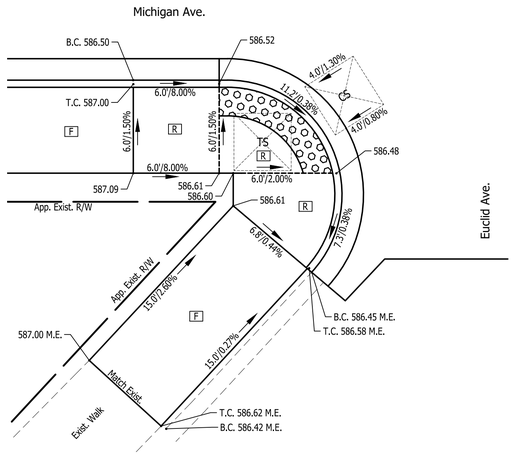


RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1" = 10' / BRIDGE FILE: N/A
			VERTICAL SCALE: N/A / DESIGNATION: 2101118
DESIGNED: B.M.S./C.E.S.	DRAWN: B.M.S.	MICHIGAN AVENUE SPOT ELEVATION	SURVEY BOOK: N/A / SHEETS: 27 of XX
CHECKED: B.M.S./C.E.S.	CHECKED: S.H.S.		CONTRACT: R-44001 / PROJECT: 2101118



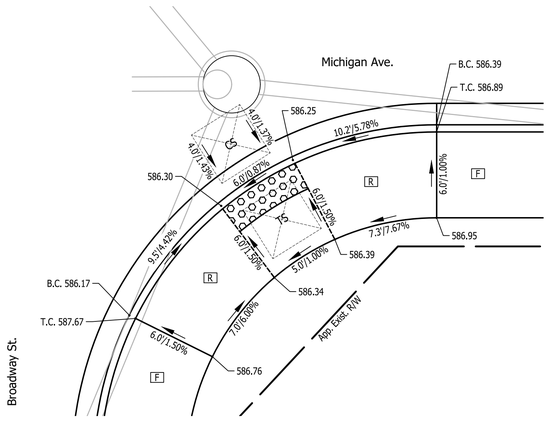
ADA Ramp @ 35+39.0 Lt.
One -Way Directional Perpendicular Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		7 Sys.
Detectable Warning Surfaces		2 Sys.



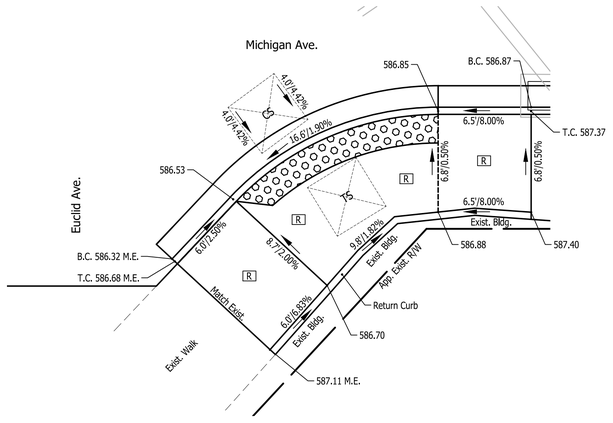
ADA Ramp S.E. Quad. Euclid St.
Depressed Corner Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		14 Sys.
Detectable Warning Surfaces		3 Sys.



ADA Ramp N.E. Quad. Broadway St.
Parallel Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		17 Sys.
Detectable Warning Surfaces		2 Sys.



ADA Ramp N.E. Quad. Euclid St.
Parallel Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		25 Sys.
Detectable Warning Surfaces		4 Sys.

NOTE:
ALL ELEVATIONS SHOWN ARE SURFACE ELEVATIONS ON RAMP OR SIDEWALK UNLESS NOTED OTHERWISE.

LEGEND

- F — CONCRETE SIDEWALK
- FS — FLARED SIDE
- G — HMA SIDEWALK
- R — CURB RAMP
- NEW PEDESTRIAN PUSHBUTTON ASSEMBLY WITH R10-3b (L OR R) CROSSWALK SIGN
- NEW (5' OR 12') PEDESTAL, WITH APS PUSH BUTTON AND R10-3A SIGN ON SIGNAL POLE FOUNDATION 24 IN. X 24 IN. X 36 IN.
- NEW SIGNAL CANTILEVER STRUCTURE SINGLE ARM (SIZE) FT. ON SIGNAL CANTILEVER STRUCTURE, DRILLED SHAFT FOUNDATION, A
- TS — TURNING SPACE 4 ft. X 4 ft.
- PB — PUSH BUTTON CLEAR SPACE 4 ft. X 4 ft.
- CS — CLEAR SPACE

B.C. = BOTTOM OF CURB

M.E. = MATCH EXISTING ELEVATION

T.C. = TOP OF CURB

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

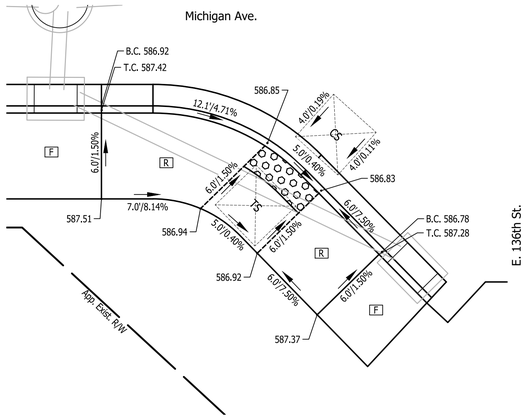
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

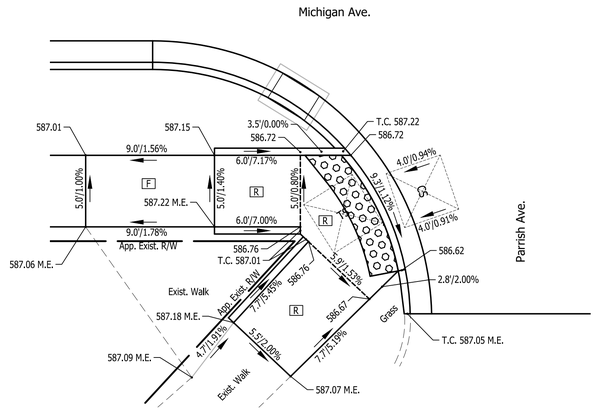
ADA RAMP DETAILS
SPOT ELEVATIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	28 of XX
CONTRACT	PROJECT
R-44001	2101118



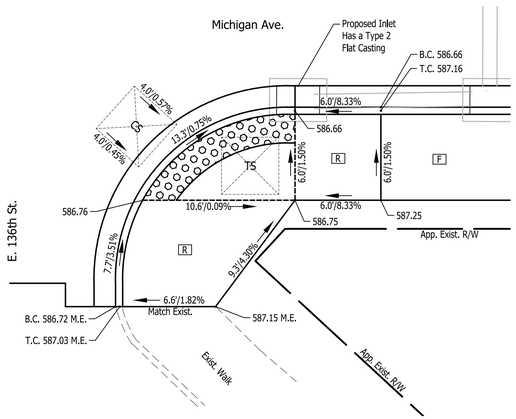
ADA Ramp S.E. Quad. E. 136th St.
Parallel Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		15 Sys.
Detectable Warning Surfaces		2 Sys.



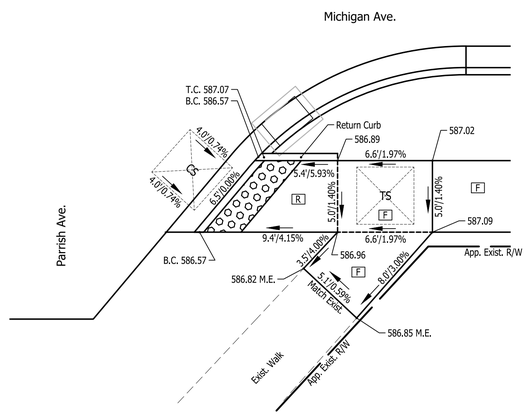
ADA Ramp S.E. Quad. Parrish Ave.
Depressed Corner Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		15 Sys.
Detectable Warning Surfaces		3 Sys.



ADA Ramp N.E. Quad. E. 136th St.
Depressed Corner Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		19 Sys.
Detectable Warning Surfaces		3 Sys.



ADA Ramp N.E. Quad. Parrish Ave.
One -Way Directional Perpendicular Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		5 Sys.
Detectable Warning Surfaces		2 Sys.

NOTE:
ALL ELEVATIONS SHOWN ARE SURFACE ELEVATIONS ON RAMP OR SIDEWALK UNLESS NOTED OTHERWISE.

LEGEND

- F — CONCRETE SIDEWALK
- FS — FLARED SIDE
- G — HMA SIDEWALK
- R — CURB RAMP
- NEW PEDESTRIAN PUSHBUTTON ASSEMBLY WITH R10-3b (L OR R) CROSSWALK SIGN
- NEW (5' OR 12') PEDESTAL, WITH APS PUSH BUTTON AND R10-3A SIGN ON SIGNAL POLE FOUNDATION 24 IN. X 24 IN. X 36 IN.
- NEW SIGNAL CANTILEVER STRUCTURE SINGLE ARM (SIZE) FT. ON SIGNAL CANTILEVER STRUCTURE, DRILLED SHAFT FOUNDATION, A
- TS — TURNING SPACE 4 ft. X 4 ft.
- PB — PUSH BUTTON CLEAR SPACE 4 ft. X 4 ft.
- CS — CLEAR SPACE

B.C. = BOTTOM OF CURB

M.E. = MATCH EXISTING ELEVATION

T.C. = TOP OF CURB

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

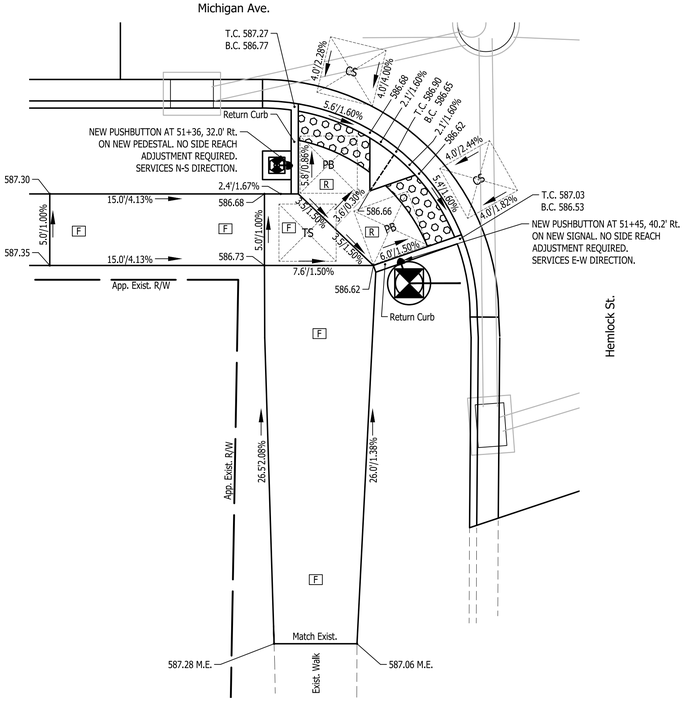
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

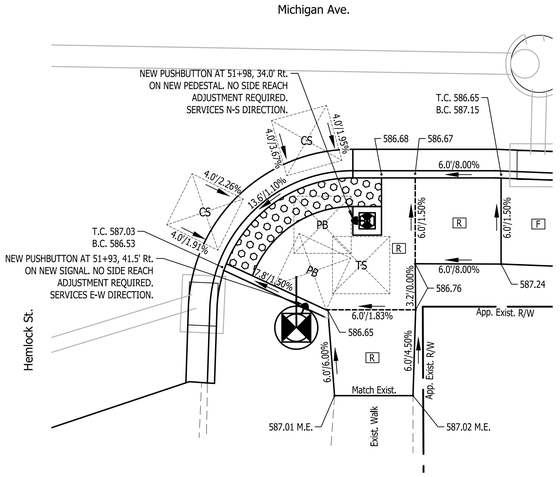
ADA RAMP DETAILS
SPOT ELEVATIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	29 of XX
CONTRACT	PROJECT
R-44001	2101118



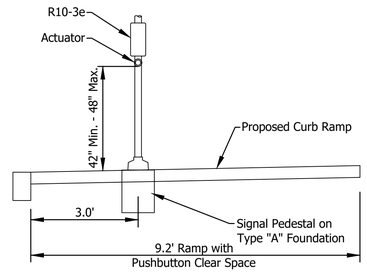
ADA Ramp S.E. Quad. Hemlock St.
Paired Parallel Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		12 Sys.
Detectable Warning Surfaces		3 Sys.

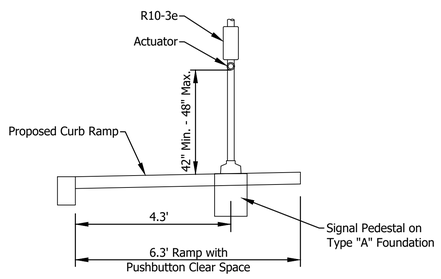


ADA Ramp N.E. Quad. Hemlock St.
Depressed Corner Curb Ramp

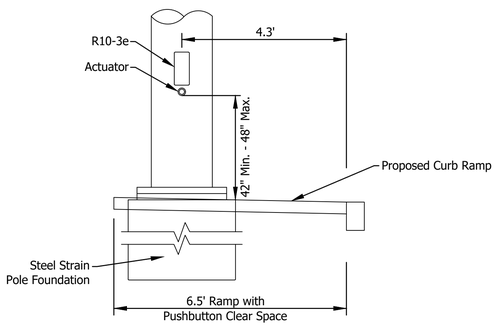
Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		21 Sys.
Detectable Warning Surfaces		3 Sys.



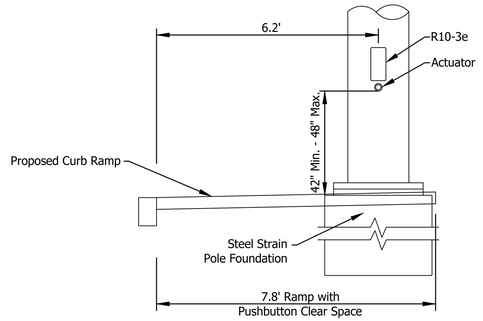
Pedestrian Pushbutton Assembly Elevation 51+98 Rt.
Not to Scale



Pedestrian Pushbutton Assembly Elevation 51+36 Rt.
Not to Scale



Pedestrian Pushbutton Assembly Elevation 51+45 Rt.
Not to Scale



Pedestrian Pushbutton Assembly Elevation 51+93 Rt.
Not to Scale

NOTE:
ALL ELEVATIONS SHOWN ARE SURFACE ELEVATIONS ON RAMP OR SIDEWALK UNLESS NOTED OTHERWISE.

LEGEND

- F — CONCRETE SIDEWALK
- FS — FLARED SIDE
- G — HMA SIDEWALK
- R — CURB RAMP
- NEW PEDESTRIAN PUSHBUTTON ASSEMBLY WITH R10-3b (L OR R) CROSSWALK SIGN
- NEW (5' OR 12') PEDESTAL, WITH APS PUSH BUTTON AND R10-3A SIGN ON SIGNAL POLE FOUNDATION 24 IN. X 24 IN. X 36 IN.
- NEW SIGNAL CANTILEVER STRUCTURE SINGLE ARM (SIZE) FT. ON SIGNAL CANTILEVER STRUCTURE, DRILLED SHAFT FOUNDATION, A
- TS — TURNING SPACE 4 ft. X 4 ft.
- PB — PUSH BUTTON CLEAR SPACE 4 ft. X 4 ft.
- CS — CLEAR SPACE

B.C. = BOTTOM OF CURB

M.E. = MATCH EXISTING ELEVATION

T.C. = TOP OF CURB

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

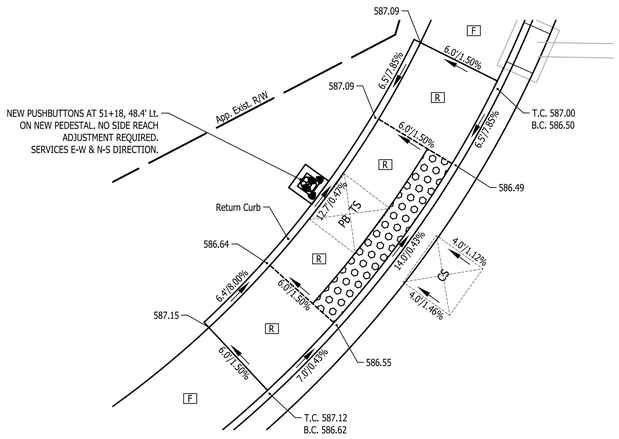
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
SPOT ELEVATIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	30 of XX
CONTRACT	PROJECT
R-44001	2101118

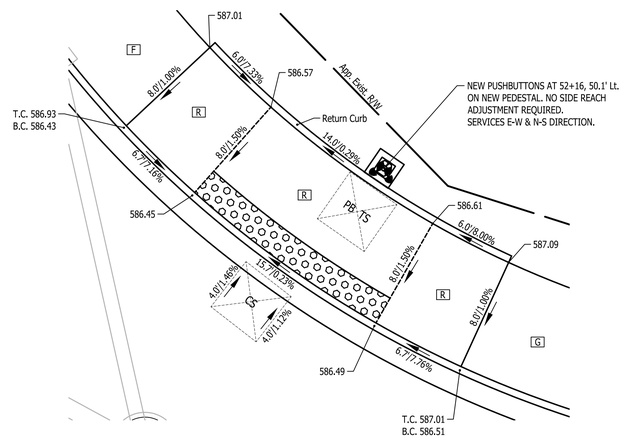


Michigan Ave.

ADA Ramp S.E. Quad. Dickey Rd.
Blended Transition Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		21 Sys.
Detectable Warning Surfaces		3 Sys.

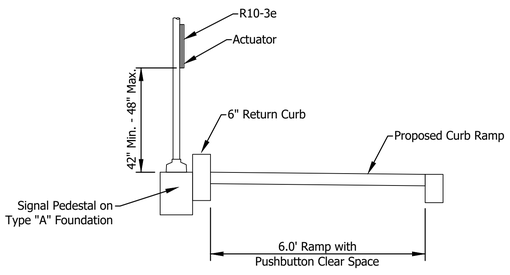
Dickey Rd.



Michigan Ave.

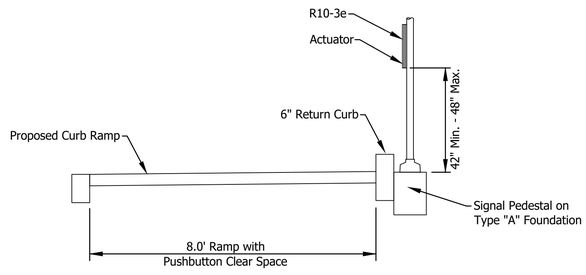
ADA Ramp N.E. Quad. Dickey Rd.
Blended Transition Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		27 Sys.
Detectable Warning Surfaces		4 Sys.



Pedestrian Pushbutton Assembly Elevation 51+18 Lt.

Not to Scale



Pedestrian Pushbutton Assembly Elevation 52+16 Rt.

Not to Scale

NOTE:
ALL ELEVATIONS SHOWN ARE SURFACE ELEVATIONS ON RAMP OR SIDEWALK UNLESS NOTED OTHERWISE.

LEGEND

- F — CONCRETE SIDEWALK
- FS — FLARED SIDE
- G — HMA SIDEWALK
- R — CURB RAMP
- NEW PEDESTRIAN PUSHBUTTON ASSEMBLY WITH R10-3b (L OR R) CROSSWALK SIGN
- NEW (5' OR 12') PEDESTAL, WITH APS PUSH BUTTON AND R10-3A SIGN ON SIGNAL POLE FOUNDATION 24 IN. X 24 IN. X 36 IN.
- NEW SIGNAL CANTILEVER STRUCTURE SINGLE ARM (SIZE) FT. ON SIGNAL CANTILEVER STRUCTURE, DRILLED SHAFT FOUNDATION, A
- TS — TURNING SPACE 4 ft. X 4 ft.
- PB — PUSH BUTTON CLEAR SPACE 4 ft. X 4 ft.
- CS — CLEAR SPACE

B.C. = BOTTOM OF CURB

M.E. = MATCH EXISTING ELEVATION

T.C. = TOP OF CURB

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

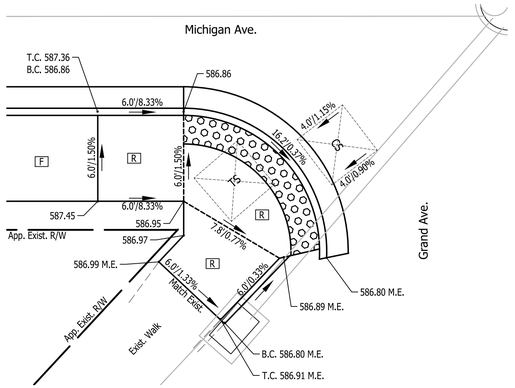
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

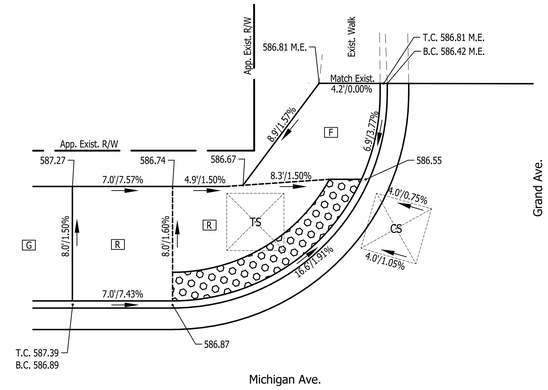
ADA RAMP DETAILS
SPOT ELEVATIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	31 of XX
CONTRACT	PROJECT
R-44001	2101118



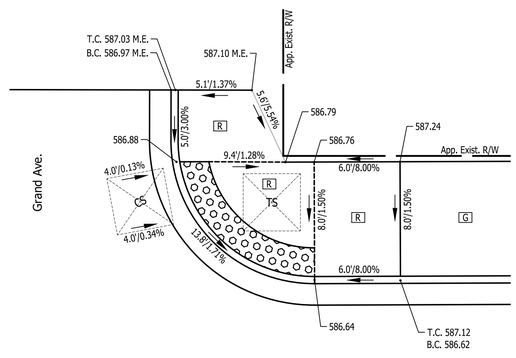
ADA Ramp S.E. Quad. Grand Blvd.
Depressed Corner Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		16 Sys.
Detectable Warning Surfaces		3 Sys.



ADA Ramp S.W. Quad. Grand Blvd.
Depressed Corner Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		17 Sys.
Detectable Warning Surfaces		4 Sys.



ADA Ramp N.E. Quad. Grand Blvd.
Depressed Corner Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		17 Sys.
Detectable Warning Surfaces		3 Sys.

NOTE:
ALL ELEVATIONS SHOWN ARE SURFACE ELEVATIONS ON RAMP OR SIDEWALK UNLESS NOTED OTHERWISE.

LEGEND

- F — CONCRETE SIDEWALK
- FS — FLARED SIDE
- G — HMA SIDEWALK
- R — CURB RAMP
- NEW PEDESTRIAN PUSHBUTTON ASSEMBLY WITH R10-3b (L OR R) CROSSWALK SIGN
- NEW (5' OR 12') PEDESTAL, WITH APS PUSH BUTTON AND R10-3A SIGN ON SIGNAL POLE FOUNDATION 24 IN. X 24 IN. X 36 IN.
- NEW SIGNAL CANTILEVER STRUCTURE SINGLE ARM (SIZE) FT. ON SIGNAL CANTILEVER STRUCTURE, DRILLED SHAFT FOUNDATION, A
- TS — TURNING SPACE 4 ft. X 4 ft.
- PB — PUSH BUTTON CLEAR SPACE 4 ft. X 4 ft.
- CS — CLEAR SPACE

B.C. = BOTTOM OF CURB

M.E. = MATCH EXISTING ELEVATION

T.C. = TOP OF CURB

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

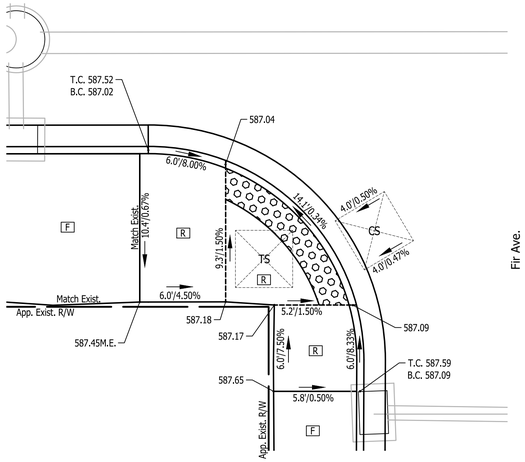
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

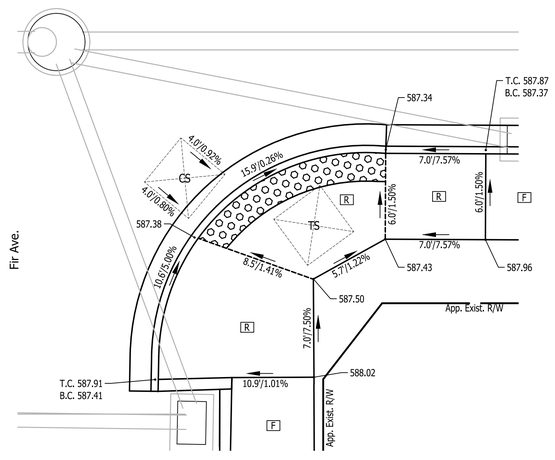
ADA RAMP DETAILS
SPOT ELEVATIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	32 of XX
CONTRACT	PROJECT
R-44001	2101118



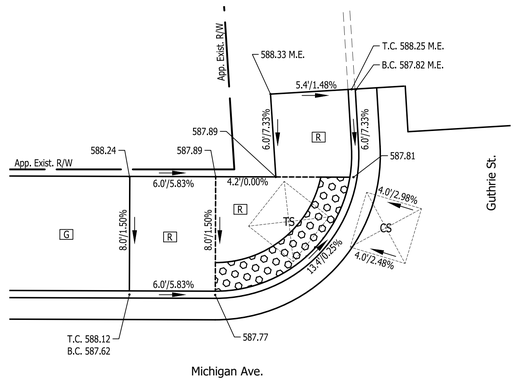
ADA Ramp S.E. Quad. Fir St.
Depressed Corner Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		18 Sys.
Detectable Warning Surfaces		3 Sys.



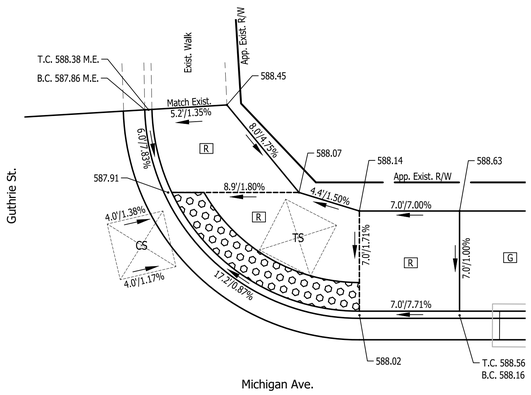
ADA Ramp N.E. Quad. Fir St.
Depressed Corner Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		25 Sys.
Detectable Warning Surfaces		3 Sys.



ADA Ramp S.W. Quad. Guthrie St.
Depressed Corner Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		17 Sys.
Detectable Warning Surfaces		3 Sys.



ADA Ramp N.W. Quad. Guthrie St.
Blended Transition Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		21 Sys.
Detectable Warning Surfaces		4 Sys.

NOTE:
ALL ELEVATIONS SHOWN ARE SURFACE ELEVATIONS ON RAMP OR SIDEWALK UNLESS NOTED OTHERWISE.

LEGEND

- F — CONCRETE SIDEWALK
- FS — FLARED SIDE
- G — HMA SIDEWALK
- R — CURB RAMP
- NEW PEDESTRIAN PUSHBUTTON ASSEMBLY WITH R10-3b (L OR R) CROSSWALK SIGN
- NEW (5' OR 12') PEDESTAL, WITH APS PUSH BUTTON AND R10-3A SIGN ON SIGNAL POLE FOUNDATION 24 IN. X 24 IN. X 36 IN.
- NEW SIGNAL CANTILEVER STRUCTURE SINGLE ARM (SIZE) FT. ON SIGNAL CANTILEVER STRUCTURE, DRILLED SHAFT FOUNDATION, A
- TS — TURNING SPACE 4 ft. X 4 ft.
- PB — PUSH BUTTON CLEAR SPACE 4 ft. X 4 ft.
- CS — CLEAR SPACE

B.C. = BOTTOM OF CURB

M.E. = MATCH EXISTING ELEVATION

T.C. = TOP OF CURB

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

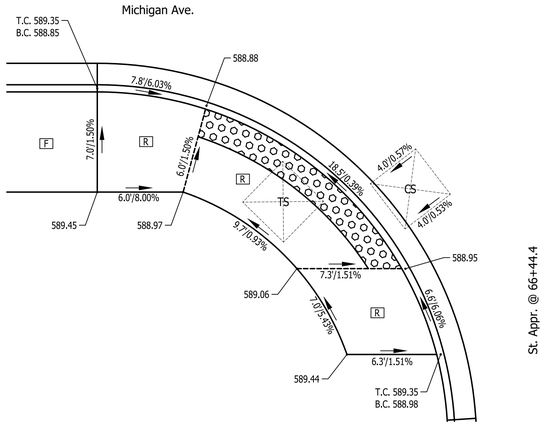
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

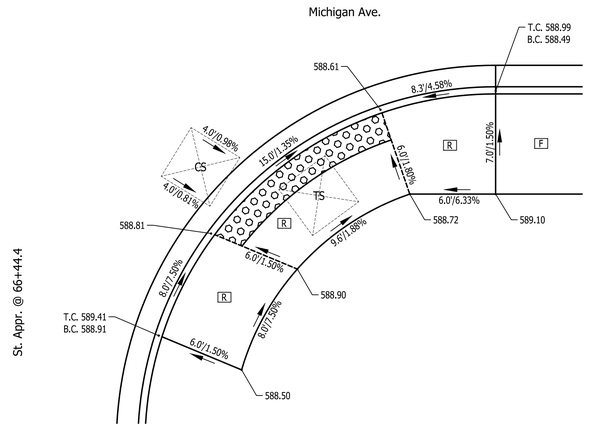
ADA RAMP DETAILS
SPOT ELEVATIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	33 of XX
CONTRACT	PROJECT
R-44001	2101118



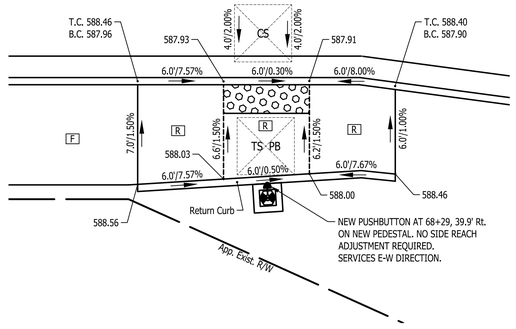
ADA Ramp S.E. Quad. St. Appr @ 66+44.4
Blended Transition Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		21 Sys.
Detectable Warning Surfaces		4 Sys.



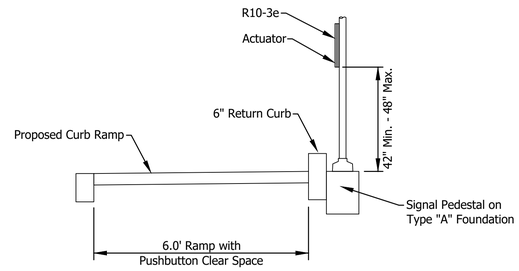
ADA Ramp N.E. Quad. St. Appr @ 66+44.4
Blended Transition Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		21 Sys.
Detectable Warning Surfaces		4 Sys.



ADA Ramp @ 68+28.4 Rt.
Midblock Crossing Ramp

Summary Of Quantities		
Description	Quadrant	Quantity
Curb Ramp, Concrete		15 Sys.
Detectable Warning Surfaces		2 Sys.



Pedestrian Pushbutton Assembly Elevation 68+29 Lt.
Not to Scale

NOTE:
ALL ELEVATIONS SHOWN ARE SURFACE ELEVATIONS ON RAMP OR SIDEWALK UNLESS NOTED OTHERWISE.

LEGEND

- F — CONCRETE SIDEWALK
- FS — FLARED SIDE
- G — HMA SIDEWALK
- R — CURB RAMP
- NEW PEDESTRIAN PUSHBUTTON ASSEMBLY WITH R10-3b (L OR R) CROSSWALK SIGN
- NEW (5' OR 12') PEDESTAL, WITH APS PUSH BUTTON AND R10-3A SIGN ON SIGNAL POLE FOUNDATION 24 IN. X 24 IN. X 36 IN.
- NEW SIGNAL CANTILEVER STRUCTURE SINGLE ARM (SIZE) FT. ON SIGNAL CANTILEVER STRUCTURE, DRILLED SHAFT FOUNDATION, A
- TS — TURNING SPACE 4 ft. X 4 ft.
- PB — PUSH BUTTON CLEAR SPACE 4 ft. X 4 ft.
- CS — CLEAR SPACE

B.C. = BOTTOM OF CURB

M.E. = MATCH EXISTING ELEVATION

T.C. = TOP OF CURB

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

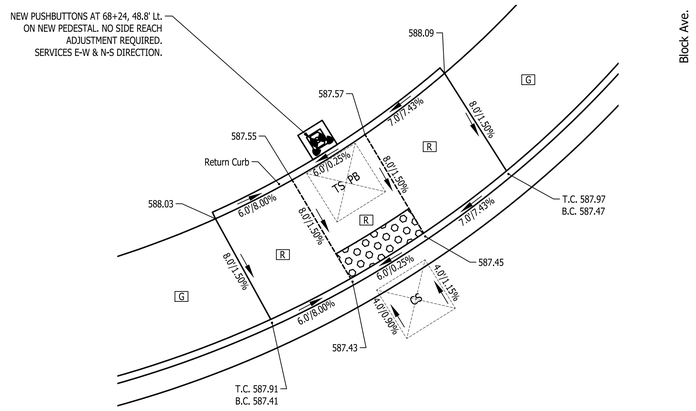
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

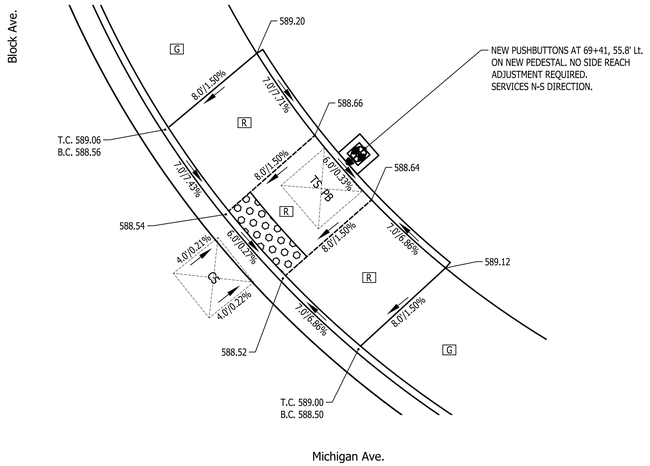
ADA RAMP DETAILS
SPOT ELEVATIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	34 of XX
CONTRACT	PROJECT
R-44001	2101118



ADA Ramp S.W. Quad. Block Ave.
Parallel Curb Ramp

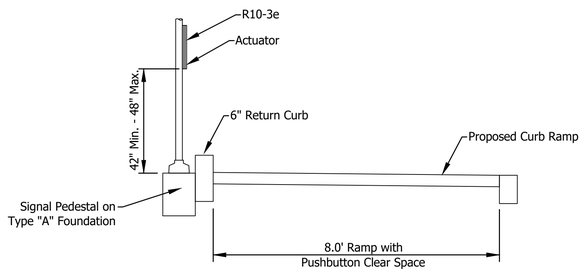
Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		20 Sys.
Detectable Warning Surfaces		2 Sys.



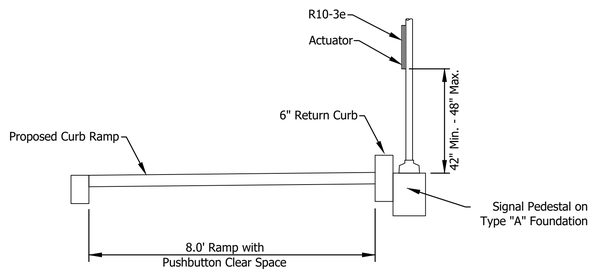
ADA Ramp N.W. Quad. Block Ave.
Parallel Curb Ramp

Summary Of Quantities		
Description		Quantity
Curb Ramp, Concrete		21 Sys.
Detectable Warning Surfaces		2 Sys.

Sidewalk Ramp Summary of Quantities		
Description		Quantity
Curb Ramp, Concrete		427 Sys.
Detectable Warning Surfaces		71 Sys.



Pedestrian Pushbutton Assembly Elevation 68+24 Lt.
Not to Scale



Pedestrian Pushbutton Assembly Elevation 69+41 Lt.
Not to Scale

NOTE:
ALL ELEVATIONS SHOWN ARE SURFACE ELEVATIONS ON RAMP OR SIDEWALK UNLESS NOTED OTHERWISE.

LEGEND

- F — CONCRETE SIDEWALK
- FS — FLARED SIDE
- G — HMA SIDEWALK
- R — CURB RAMP
- NEW PEDESTRIAN PUSHBUTTON ASSEMBLY WITH R10-3b (L OR R) CROSSWALK SIGN
- NEW (5' OR 12') PEDESTAL, WITH APS PUSH BUTTON AND R10-3A SIGN ON SIGNAL POLE FOUNDATION 24 IN. X 24 IN. X 36 IN.
- NEW SIGNAL CANTILEVER STRUCTURE SINGLE ARM (SIZE) FT. ON SIGNAL CANTILEVER STRUCTURE, DRILLED SHAFT FOUNDATION, A
- TS — TURNING SPACE 4 ft. X 4 ft.
- PB — PUSH BUTTON CLEAR SPACE 4 ft. X 4 ft.
- CS — CLEAR SPACE

B.C. = BOTTOM OF CURB

M.E. = MATCH EXISTING ELEVATION

T.C. = TOP OF CURB

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

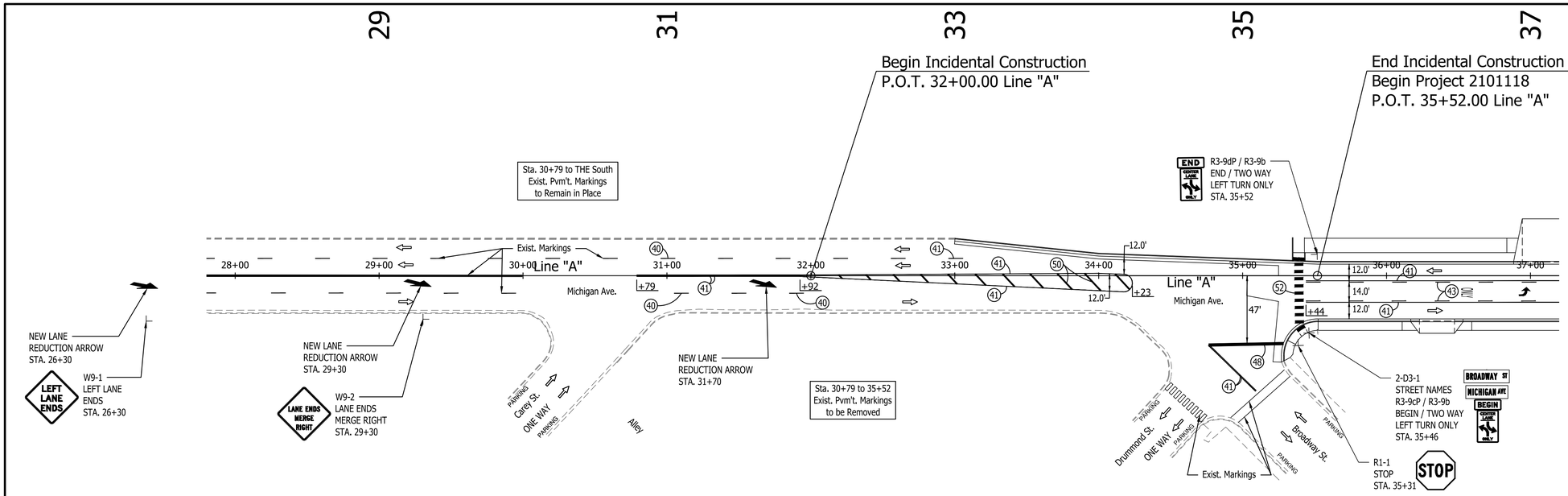
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

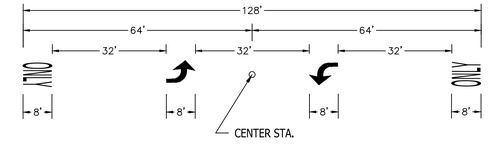
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

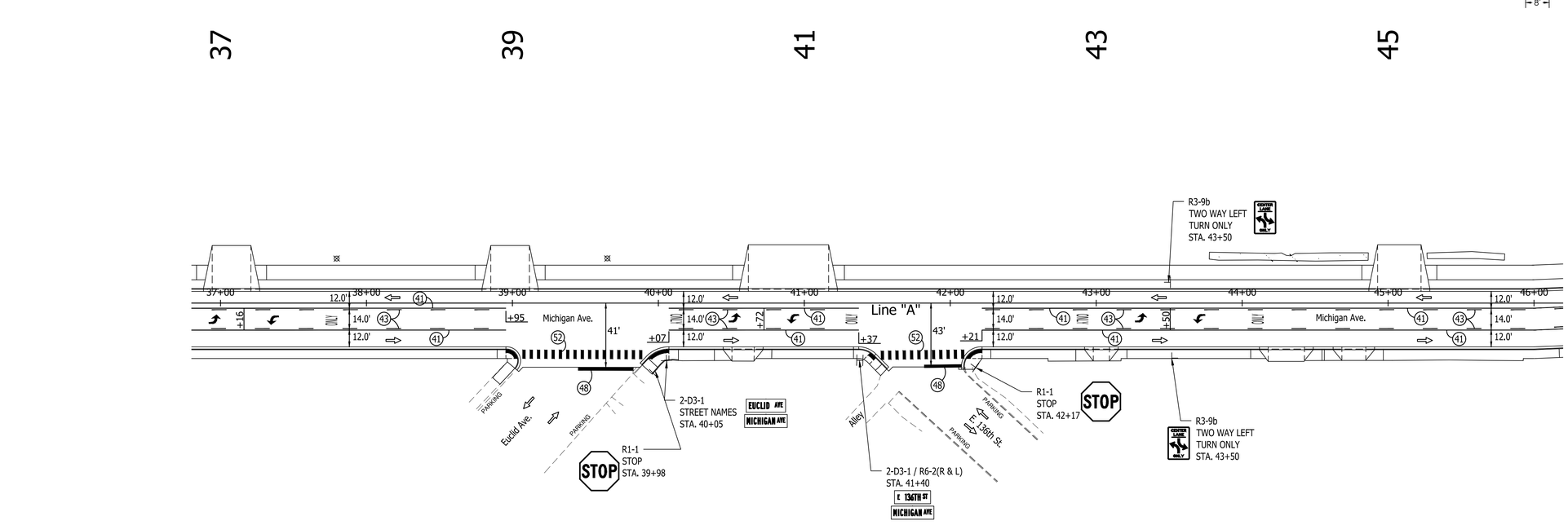
ADA RAMP DETAILS
SPOT ELEVATIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	35 of XX
CONTRACT	PROJECT
R-44001	2101118





BI-DIRECTIONAL PAVEMENT MARKING
LOCATION & SPACING DETAIL



PAVEMENT MARKING LEGEND

- (40) LINE, THERMOPLASTIC, BROKEN, WHITE, 4" (10' SEGMENT, 30' GAP)
- (41) LINE, THERMOPLASTIC, SOLID, YELLOW, 4"
- (42) LINE, THERMOPLASTIC, SOLID, WHITE, 4"
- (43) LINE, THERMOPLASTIC, BROKEN, YELLOW, 4" (10' SEGMENT, 30' GAP)
- (48) TRANSVERSE MARKINGS, THERMOPLASTIC, STOP LINE, 24"
- (50) TRANSVERSE MARKING, THERMOPLASTIC, CROSSHATCH LINE, YELLOW, 12 IN. (20' SPACING, 45° ANGLE)
- (51) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 6"
- (52) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 24"
- PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE INDICATION ARROWS
- PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE INDICATION ARROWS (LANE MERGE)
- PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE REDUCTION INDICATION ARROWS
- ONLY PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, WORD (ONLY)
- TRAFFIC FLOW

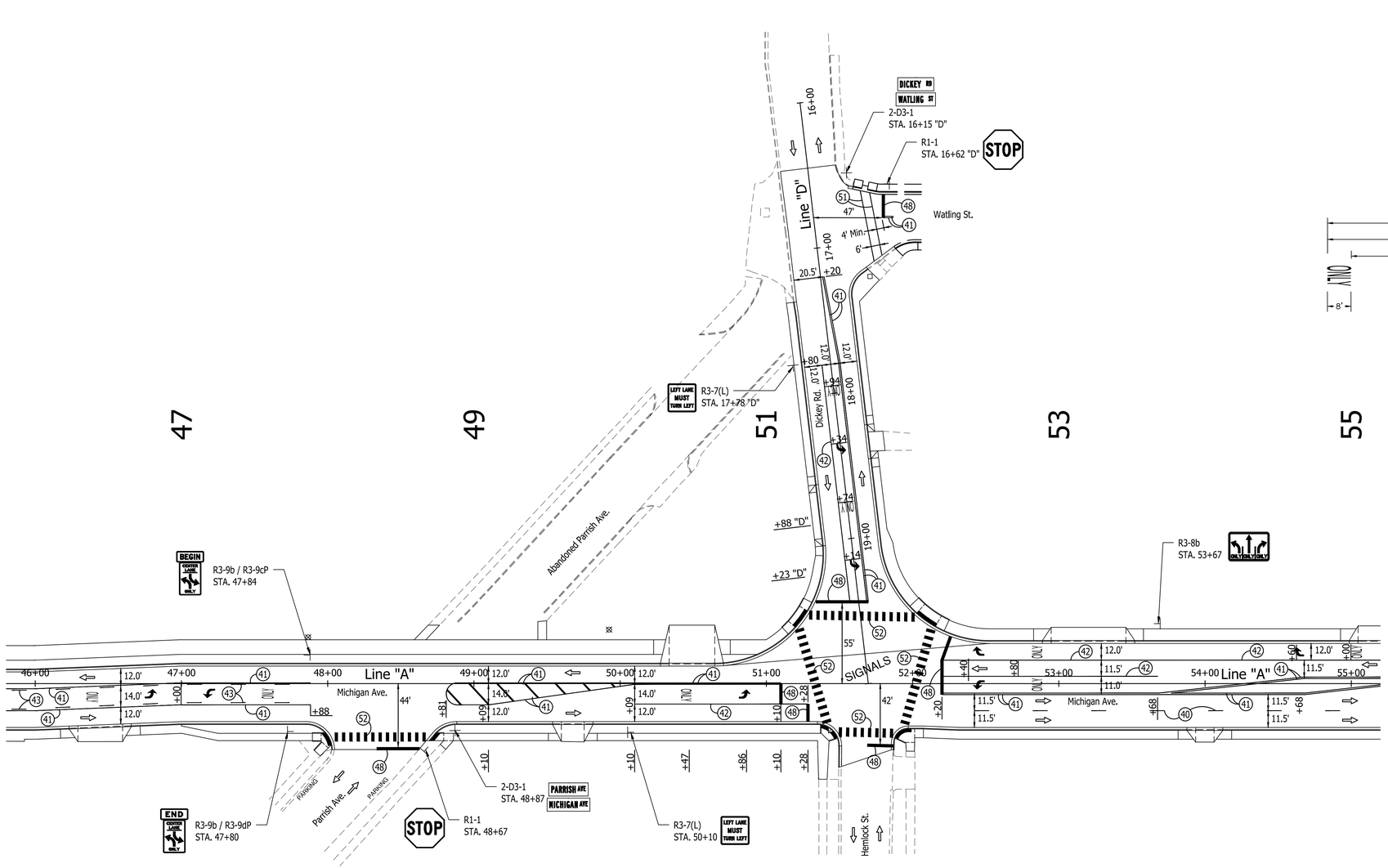
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

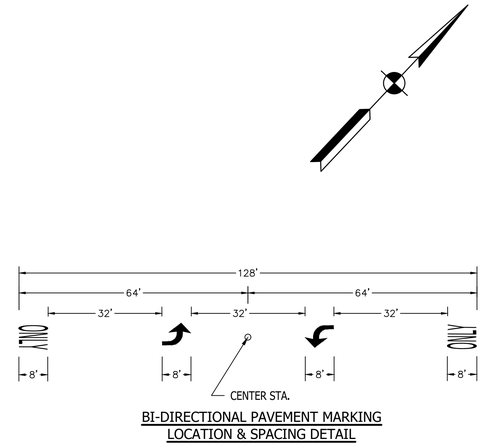
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./T.F.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
PAVEMENT MARKINGS AND SIGNS

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	36 of XX
CONTRACT	PROJECT
R-44001	2101118





BI-DIRECTIONAL PAVEMENT MARKING
LOCATION & SPACING DETAIL

PAVEMENT MARKING LEGEND

- (40) LINE, THERMOPLASTIC, BROKEN, WHITE, 4" (10' SEGMENT, 30' GAP)
- (41) LINE, THERMOPLASTIC, SOLID, YELLOW, 4"
- (42) LINE, THERMOPLASTIC, SOLID, WHITE, 4"
- (43) LINE, THERMOPLASTIC, BROKEN, YELLOW, 4" (10' SEGMENT, 30' GAP)
- (48) TRANSVERSE MARKINGS, THERMOPLASTIC, STOP LINE, 24"
- (50) TRANSVERSE MARKING, THERMOPLASTIC, CROSSHATCH LINE, YELLOW, 12 IN. (20' SPACING, 45° ANGLE)
- (51) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 6"
- (52) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 24"
- PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE INDICATION ARROWS
- PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE INDICATION ARROWS (LANE MERGE)
- PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE REDUCTION INDICATION ARROWS
- ONLY PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, WORD (ONLY)
- TRAFFIC FLOW

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

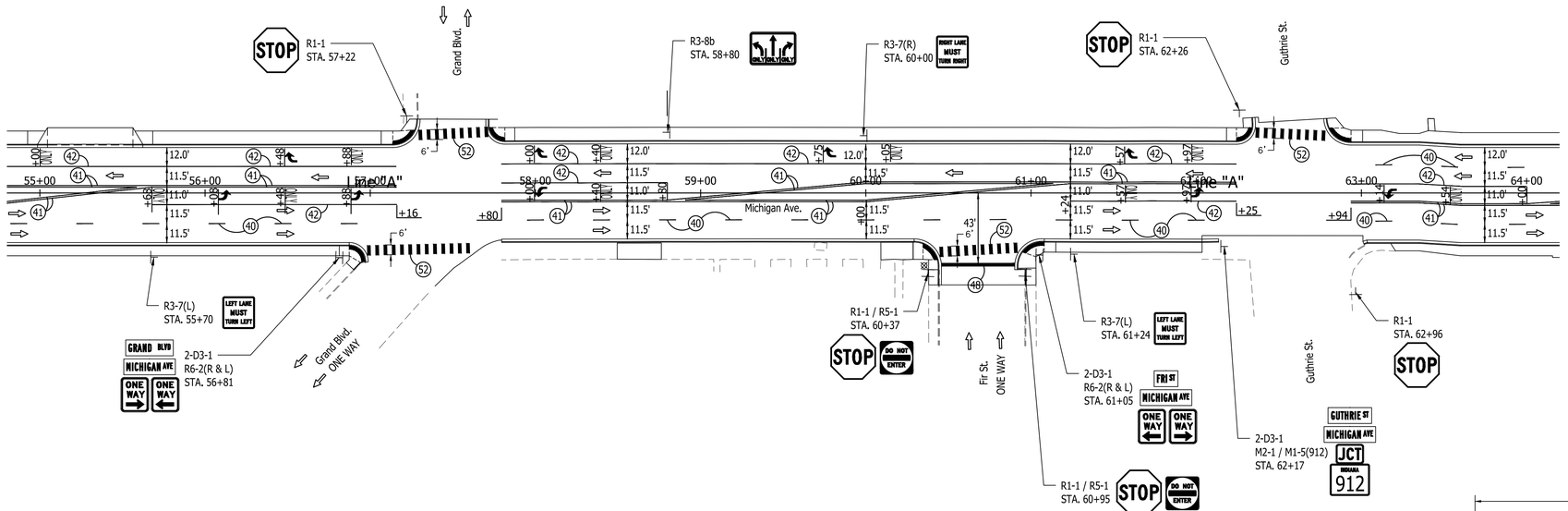
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./T.F.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

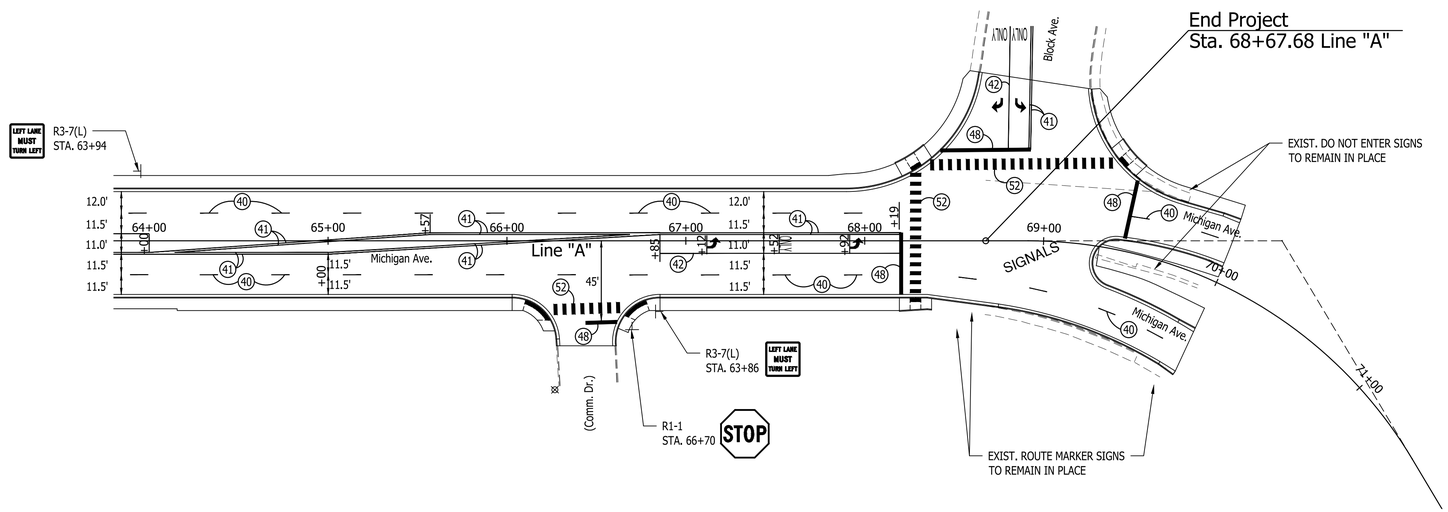
MICHIGAN AVENUE
PAVEMENT MARKINGS AND SIGNS

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118

SURVEY BOOK	SHEETS
N/A	37 of XX
CONTRACT	PROJECT
R-44001	2101118



BI-DIRECTIONAL PAVEMENT MARKING
LOCATION & SPACING DETAIL



PAVEMENT MARKING LEGEND

- (40) LINE, THERMOPLASTIC, BROKEN, WHITE, 4" (10' SEGMENT, 30' GAP)
- (41) LINE, THERMOPLASTIC, SOLID, YELLOW, 4"
- (42) LINE, THERMOPLASTIC, SOLID, WHITE, 4"
- (43) LINE, THERMOPLASTIC, BROKEN, YELLOW, 4" (10' SEGMENT, 30' GAP)
- (48) TRANSVERSE MARKINGS, THERMOPLASTIC, STOP LINE, 24"
- (50) TRANSVERSE MARKING, THERMOPLASTIC, CROSSHATCH LINE, YELLOW, 12 IN. (20' SPACING, 45° ANGLE)
- (51) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 6"
- (52) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 24"
- PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE INDICATION ARROWS
- PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE INDICATION ARROWS (LANE MERGE)
- PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE REDUCTION INDICATION ARROWS
- ONLY PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, WORD (ONLY)
- TRAFFIC FLOW

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

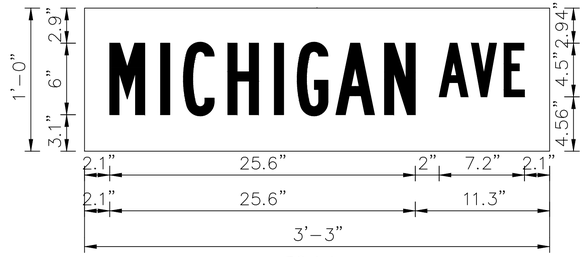
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./T.F.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

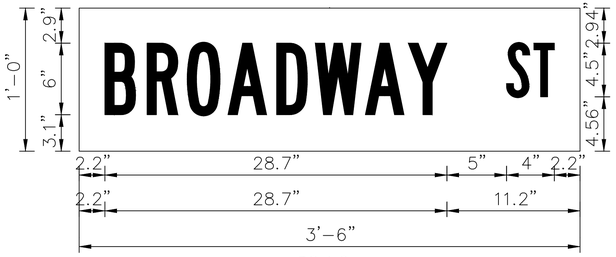
MICHIGAN AVENUE
PAVEMENT MARKINGS AND SIGNS

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118

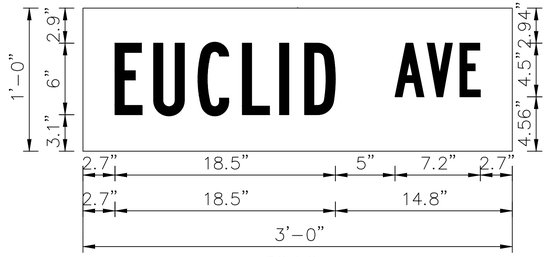
SURVEY BOOK	SHEETS
N/A	38 of XX
CONTRACT	PROJECT
R-44001	2101118



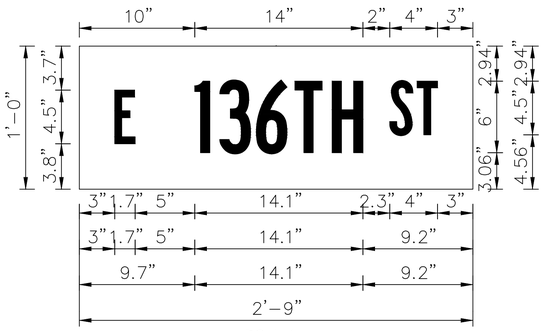
D3-1-1g



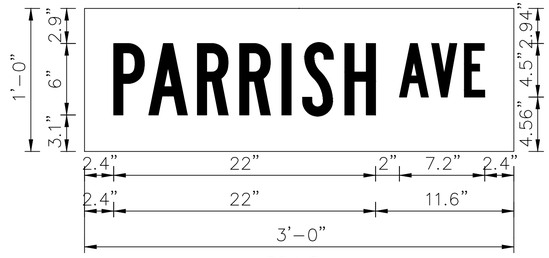
D3-1-2g



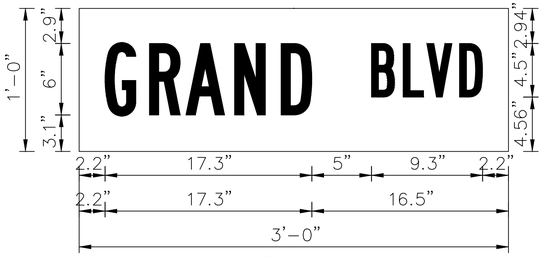
D3-1-3g



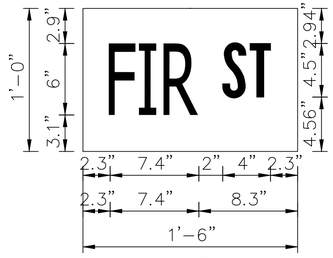
D3-1-4g



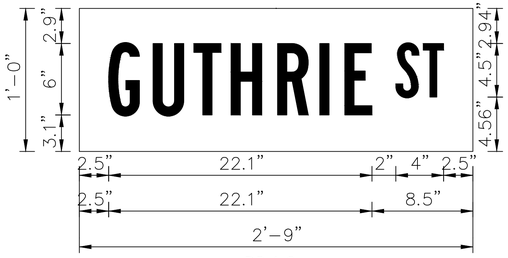
D3-1-5g



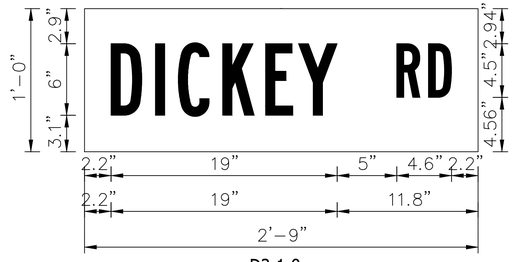
D3-1-6g



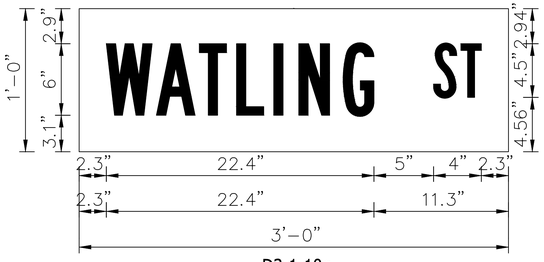
D3-1-7g



D3-1-8g



D3-1-9g



D3-1-10g

GROUND MOUNTED (D3-1-#g) STREET NAME SIGN NOTES:

1. All ground mounted street name signs to be white copy on red background with no borders.

2. Actual sign size may vary according to manufacture recommendations.

3. Contractor to verify all street names prior to ordering any signs.

4. Sign shop drawings are to be submitted for review and approval prior to ordering any sign materials.

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./T.F.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
PAVEMENT MARKINGS AND SIGNS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118

SURVEY BOOK	SHEETS
N/A	39 of XX
CONTRACT	PROJECT
R–44001	2101118

STA.	SIDE	CODE	MESSAGE	SIZE	THICKNESS			SQ. POST TYPE 1	SQ. POST TYPE 2
					0.080 IN." THICK (SFT)	0.100 IN. THICK (SFT.)	DOUBLE SIDED 0.100 IN. THICK (SFT)	LFT.	LFT.
LINE "A" MICHIGAN AVE.									
26+30	RT	W9-1	LEFT LANE ENDS	36X36		9.00		11.5	
29+30	RT	W9-2	LANE ENDS MERGE RIGHT	36X36		9.00		11.5	
35+31	RT	R1-1	STOP	36X36		9.00		11.0	
35+46	RT	D3-1-2o	BROADWAY ST	42X12			3.50	12.0	
		D3-1-1o	MICHIGAN AVE	39X12			3.25		
		R3-9cP	BEGIN	30X12	2.50				
		R3-9b	TWO WAY LEFT TURN ONLY	24X36	6.00				
35+52	LT	R3-9dP	END	30X12	2.50			12.0	
		R3-9b	TWO WAY LEFT TURN ONLY	24X36	6.00				
39+98	RT	R1-1	STOP	36X36		9.00		11.0	
40+04	RT	D3-1-3o	EUCLID AVE	36X12			3.00	8.0	
		D3-1-1o	MICHIGAN AVE	39X12			3.25		
41+40	RT	D3-1-4o	E 136TH ST	33X12			2.75	8.0	
		D3-1-1o	MICHIGAN AVE	39X12			3.25		
42+17	RT	R1-1	STOP	36X36		9.00		11.0	
43+50	LT	R3-9b	TWO WAY LEFT TURN ONLY	24X36	6.00			11.0	
43+50	RT	R3-9b	TWO WAY LEFT TURN ONLY	24X36	6.00			11.0	
47+80	RT	R3-9dP	END	30X12	2.50			12.0	
		R3-9b	TWO WAY LEFT TURN ONLY	24X36	6.00				
47+84	LT	R3-9cP	BEGIN	30X12	2.50			12.0	
		R3-9b	TWO WAY LEFT TURN ONLY	24X36	6.00				
48+67	RT	R1-1	STOP	36X36		9.00		11.0	
48+87	RT	D3-1-5o	PARRISH AVE	36X12			3.00	8.0	
		D3-1-1o	MICHIGAN AVE	39X12			3.25		
50+10	RT	R3-7(L)	LEFT LANE MUST TURN LEFT	30X30	6.50			10.5	
53+67	LT	R3-8b	LEFT - THRU - RIGHT ARROWS ONLY	42X30		8.75		10.5	
55+70	LT	R3-7(L)	LEFT LANE MUST TURN LEFT	30X30	6.50			10.5	
56+81	LT	D3-1-6o	GRAND BLVD	36X12			3.00	10.5	
		D3-1-1o	MICHIGAN AVE	39X12			3.25		
		R6-2(R)	ONE WAY RIGHT	24X30	5.00				
		R6-2(L)	ONE WAY LEFT	24X30	5.00				
57+22	LT	R1-1	STOP	36X36		9.00		11.0	
58+80	LT	R3-8b	LEFT - THRU - RIGHT ARROWS ONLY	42X30		8.75		10.5	
60+00	LT	R3-7(R)	RIGHT LANE MUST TURN RIGHT	30X30	6.50			10.5	
60+37	RT	R1-1	STOP	36X36		9.00		11.0	
		R5-1	DO NOT ENTER (BACK OF STOP SIGN)	30X30	6.25				
60+95	RT	R1-1	STOP	36X36		9.00		11.0	
		R5-1	DO NOT ENTER (BACK OF STOP SIGN)	30X30	6.25				
61+05	RT	D3-1-7o	FIR ST	18X12			1.50	10.5	
		D3-1-1o	MICHIGAN AVE	39X12			3.25		
		R6-2(L)	ONE WAY LEFT	24X30	5.00				
		R6-2(R)	ONE WAY RIGHT	24X30	5.00				
61+24	RT	R3-7(L)	LEFT LANE MUST TURN LEFT	30X30	6.50			10.5	
62+17	RT	D3-1-8o	GUTHRIE ST	33X12			2.75	11.0	
		D3-1-1o	MICHIGAN AVE	39X12			3.25		
		M2-1	JCT	21X15	2.19				
		M1-5(912)	INDIANA 912	30X24	5.00				
62+26	LT	R1-1	STOP	36X36		9.00		11.0	
63+94	LT	R3-7(L)	LEFT LANE MUST TURN LEFT	30X30	6.50			10.5	
66+70	RT	R1-1	STOP	36X36		9.00		11.0	
63+86	RT	R3-7(L)	LEFT LANE MUST TURN LEFT	30X30	6.50			10.5	

STA.	SIDE	CODE	MESSAGE	SIZE	THICKNESS			SQ. POST TYPE 1	SQ. POST TYPE 2
					0.080 IN." THICK (SFT)	0.100 IN. THICK (SFT.)	DOUBLE SIDED 0.100 IN. THICK (SFT)	LFT.	LFT.
LINE "D" DICKEY RD									
16+15	LT	D3-1-9o	DICKEY RD	12X33			2.75	8.0	
		D3-1-10o	WATLING ST	12X36			3.00		
16+62	LT	R1-1	STOP	36X36		9.00		11.0	
17+87	RT	R3-7(L)	LEFT LANE MUST TURN LEFT	30X30	6.50			10.5	
SIGNALS OVERHEAD									
MICHIGAN AVE & DICKEY RD									
		D3-1-1o	MICHIGAN AVE	INTERNAL ILLUMINATED					
		D3-2-1o	HEMLOCK ST -> / <- DICKEY RD	INTERNAL ILLUMINATED					
		D3-2-2o	DICKEY RD -> / <- HEMLOCK ST	INTERNAL ILLUMINATED					
		R10-10	LEFT TURN SIGNAL	30X36	7.50				
MICHIGAN AVE & DICKEY RD									
		D3-1-1o	MICHIGAN AVE	INTERNAL ILLUMINATED					
		D3-1-3o	BLOCK AVE	INTERNAL ILLUMINATED					
		R10-12	LEFT TURN YIELD ON GREEN	30X36	7.50				
TOTALS					146.19	125.50	48.00	361.50	0.00

SIGN SUMMARY TABLE

DESCRIPTION	UNIT	QUANTITY
SIGN POST, SQUARE, TYPE 1, REINFORCED ANCHOR BASE	LFT.	361.50
SIGN, SHEET, AND SUPPORTS, REMOVE (UNDISTRIBUTED)	EACH	28.00
SIGN, SHEET, WITH LEGEND, 0.080 IN. THICKNESS	SFT.	146.19
SIGN, DOUBLED FACED, SHEET, WITH LEGEND, 0.100 IN THICKNESS	SFT.	48.00
SIGN, SHEET, WITH LEGEND, 0.100 IN. THICKNESS	SFT.	125.50
ILLUMINATED SIGN	EACH	4.00

PAVEMENT MARKING SUMMARY TABLE

PAY ITEM	TOTALS	UNITS
(40) LINE, THERMOPLASTIC, BROKEN, WHITE, 4" (10' SEGMENT, 30' GAP)	714	Lft
(41) LINE, THERMOPLASTIC, SOLID, YELLOW, 4"	9104	Lft
(42) LINE, THERMOPLASTIC, SOLID, WHITE, 4"	2071	Lft
(43) LINE, THERMOPLASTIC, BROKEN, YELLOW, 4" (10' SEGMENT, 30' GAP)	577	Lft
(48) TRANSVERSE MARKINGS, THERMOPLASTIC, STOP LINE, 24"	568	Lft
(50) TRANSVERSE MARKING, THERMOPLASTIC, CROSSHATCH LINE, WHITE, 12" (45° - 2-FT. SPACING)	226	Lft
(51) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 6"	101	Lft
(52) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 24"	1138	Lft
ONLY PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, WORD (ONLY)	26	Each
PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE INDICATION ARROWS	30	Each
PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE INDICATION ARROWS (LANE-REDUCTION TRANSITION)		

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

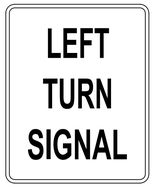
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./T.F.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

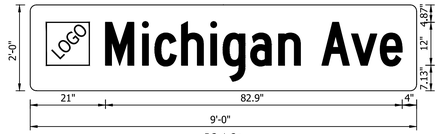
INDIANA DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
PAVEMENT MARKINGS AND SIGNS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	40 of XX
CONTRACT	PROJECT
R-44001	2101118

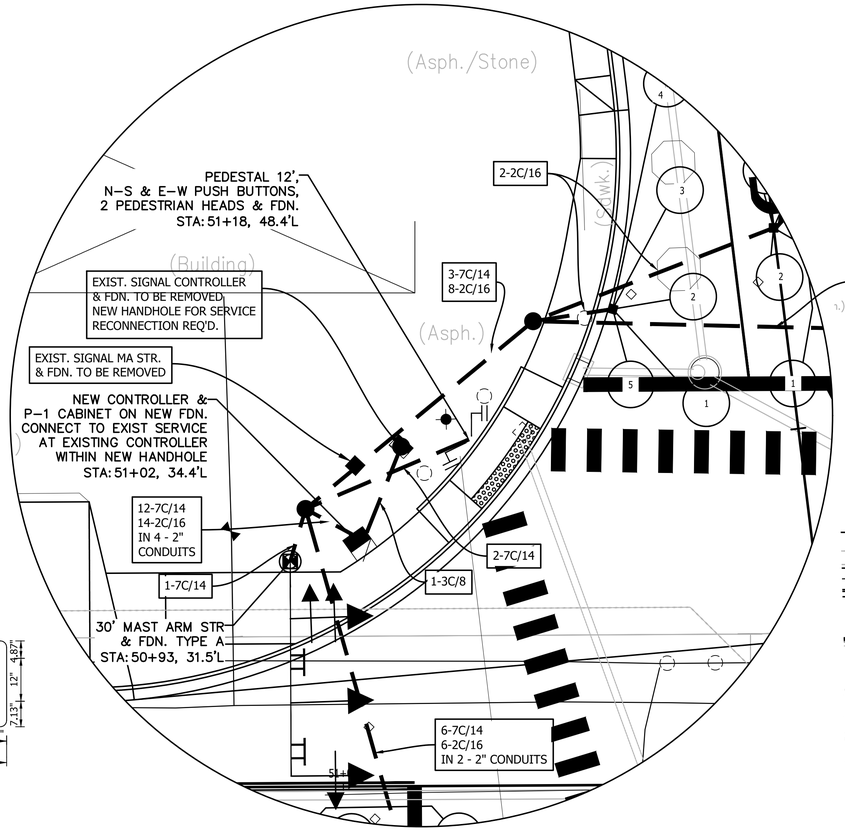


R10-10L
30"X36"

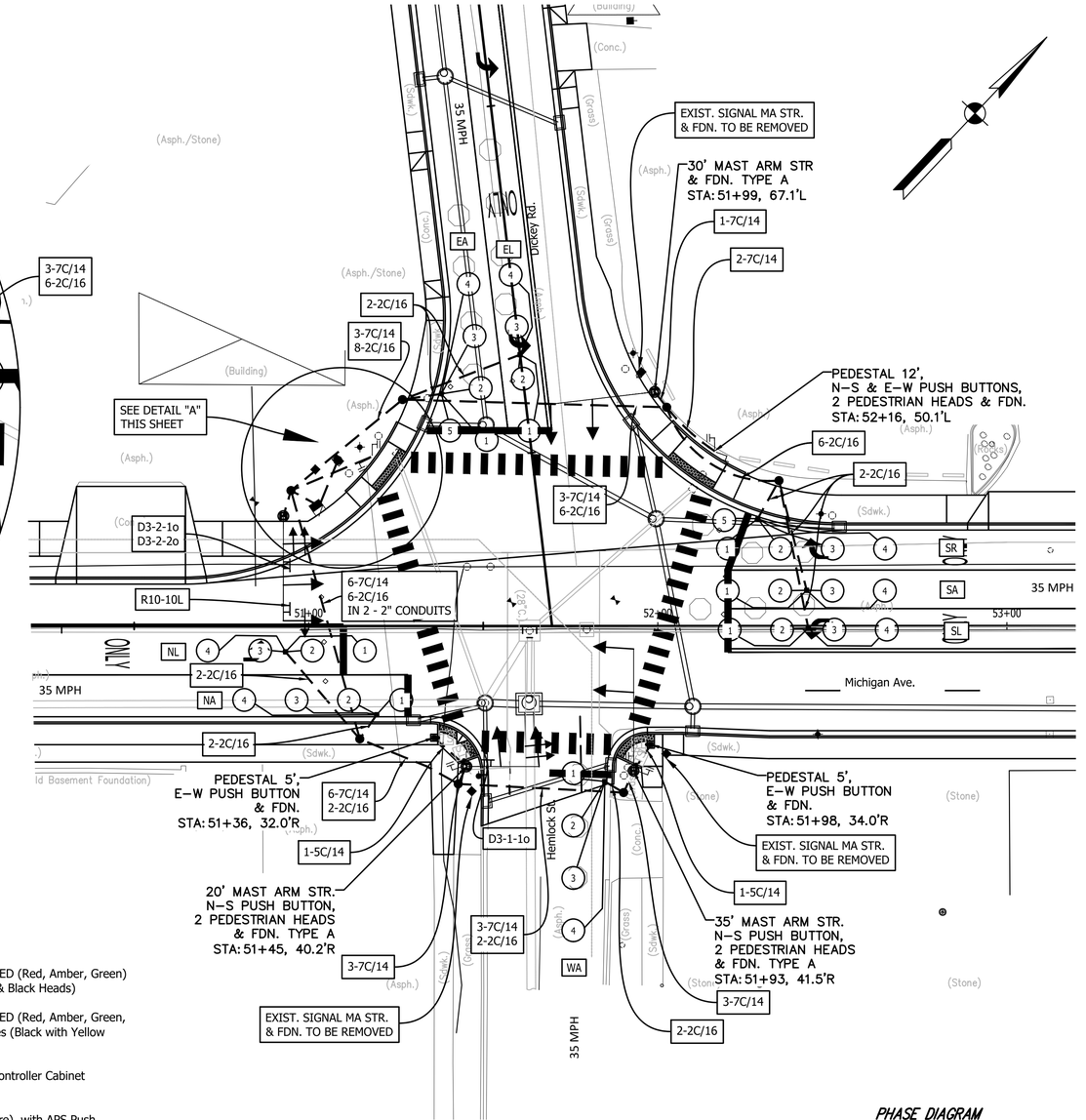


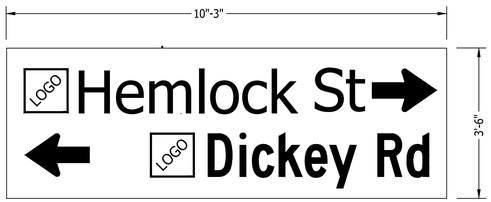
D3-1-2o

Double sided interior
LED illuminated sign

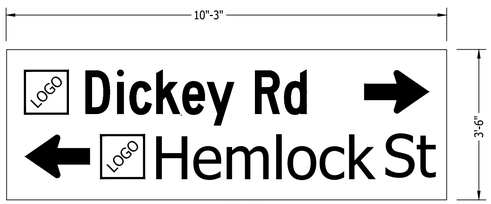


DETAIL "A"
SCALE 1" = 10'





D3-2-1o
Facing NE Bound Michigan Ave.



D3-2-2o
Facing SW Bound Michigan Ave.

Overhead Back to Back
Internal LED Illuminated
Signs

All White Copy on
Red Background

OVERHEAD (D3-1-#o) STREET NAME SIGN NOTES:

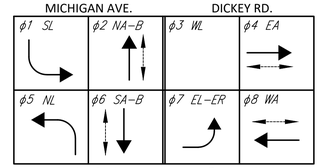
1. All overhead street name signs to be white copy on red background LED internal illuminated, with black metal frame.
2. Actual sign size may vary according to manufacture recommendations.
3. Contractor to verify all street names prior to ordering any signs.
4. Sign shop drawings are to be submitted for review and approval prior to ordering any sign materials.

LEGEND

- Traffic Signal Head, 3-Section 12" All LED (Red, Amber, Green) Back Plates (Black with Yellow Border & Black Heads)
- Traffic Signal Head, 5-Section 12" All LED (Red, Amber, Green, Amber Arrow, Green Arrow) Back Plates (Black with Yellow Border and Black Heads)
- New Controller and Cabinet, P-1 and Controller Cabinet Foundation, P1
- New (5' or 12') Pedestal (Black Structure), with APS Push Button and R10-3a Sign on Signal Pole Foundation 24 in. x 24 in. x 36 in. (See Ramp Details for Locations)
- New Signal Cantilever Structure Single Arm (Size) Ft. on Signal Cantilever Structure, Drilled Shaft Foundation, A (Black Structure)
- New Pedestrian Signal Head, Countdown, 18 in. (Black Heads)
- New Signal Handhole
- New Detector Housing
- New 2 Inch Galvanized Steel Conduit
- (#) New Vehicle Loop Detection
- D3-# New Overhead Street Name Sign

LOOP TAGGING TABLE			
LANE	TAG NUMBER	COUNTING LOOPS	NON-COUNTING LOOPS
NL	NL5-1,2,3,4	4	1,2,3
NA	NA2-1,2,3,4	ALL	
WA	WA8-1,2,3,4	1,4	2,3
SL	SL1-1,2,3,4	4	1,2,3
SA	SA6-1,2,3,4	ALL	
SR	SR7-1,2,3,4,5	1,5	2,3,4
EL	EL7-1,2,3,4	2,3	1,4
EA	EA4-1,2,3,4,5	1,5	2,3,4

PHASE DIAGRAM



MICHIGAN AVE. IS PREFERENTIAL
MICHIGAN AVE. FLASHES AMBER
DICKEY RD. FLASHES RED
CONTRACTOR TO VERFY & INSTALL
PROPER PHASING AND LOOP
TAGGING DURING CONSTRUCTION.

NOTES:
1. New signal controller to be connected to the existing signal service with a handhole at or near the existing controller, or as directed.
2. See ramp detail for push button pedestals locations.
3. Unused signal handholes are to be removed.
4. Additional conduits may be required per INDOT & NEC conduit capacity full requirements.

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

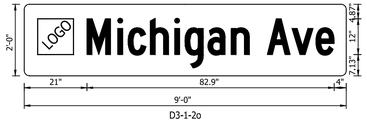
DESIGNED: T.F.S. | DRAWN: J.P.H.
CHECKED: D.W.C. | CHECKED: T.F.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

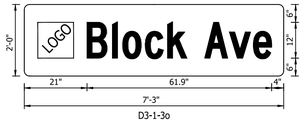
MICHIGAN AVENUE
LIGHTING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118

SURVEY BOOK	SHEETS
N/A	41 of XX
CONTRACT	PROJECT
R–44001	2101118



Single sided interior LED illuminated sign



Double sided interior LED illuminated sign

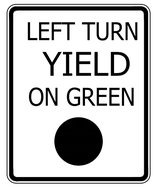
OVERHEAD (D3-1-#o) STREET NAME SIGN NOTES:

1. All overhead street name signs to be white copy on red background LED internal illuminated, with black metal frame.

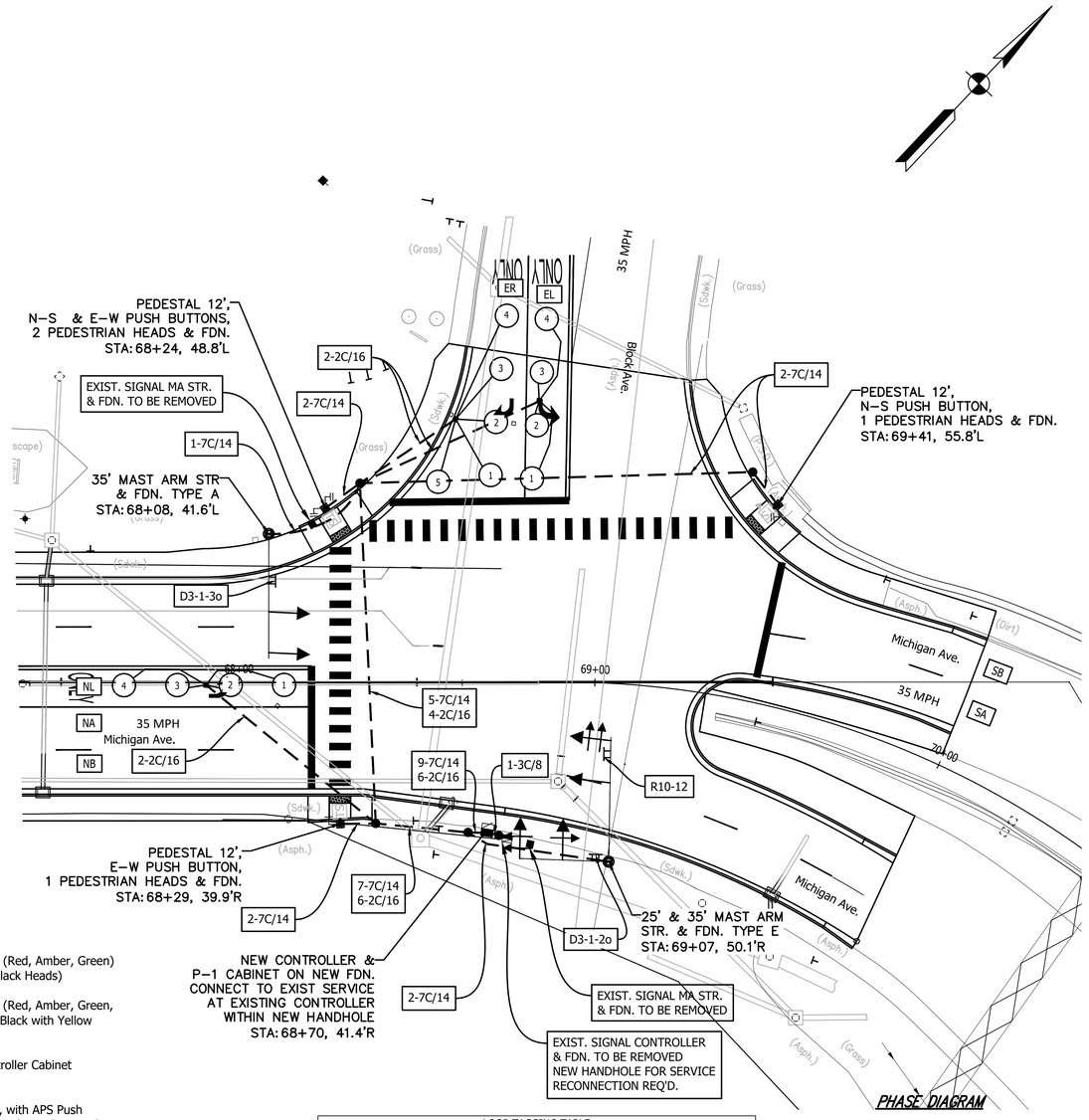
2. Actual sign size may vary according to manufacture recommendations.

3. Contractor to verify all street names prior to ordering any signs.

4. Sign shop drawings are to be submitted for review and approval prior to ordering any sign materials.



R10-12
30"X36"

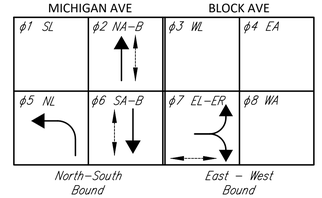


LEGEND

- Traffic Signal Head, 3-Section 12" All LED (Red, Amber, Green) Back Plates (Black with Yellow Border & Black Heads)
- Traffic Signal Head, 5-Section 12" All LED (Red, Amber, Green, Amber Arrow, Green Arrow) Back Plates (Black with Yellow Border and Black Heads)
- New Controller and Cabinet, P-1 and Controller Cabinet Foundation, P1
- New (5' or 12') Pedestal (Black Structure), with APS Push Button and R10-3a Sign on Signal Pole Foundation 24 in. x 24 in. x 36 in. (See Ramp Details for Locations)
- New Signal Cantilever Structure Single Arm (Size) Ft. on Signal Cantilever Structure, Drilled Shaft Foundation, A (Black Structure)
- New Pedestrian Signal Head, Countdown, 18 in. (Black Heads)
- New Signal Handhole
- New Detector Housing
- New 2 Inch Galvanized Steel Conduit
- (#) New Vehicle Loop Detection
- D3-# New Overhead Street Name Sign

LOOP TAGGING TABLE			
LANE	TAG NUMBER	COUNTING LOOPS	NON-COUNTING LOOPS
NL	NL5-1,2,3,4	4	1,2,3
EL	EL7-1,2,3,4	ALL	
ER	ER7-1,2,3,4,5	ALL	

PHASE DIAGRAM



MICHIGAN AVE. IS PREFERENTIAL
MICHIGAN AVE. FLASHES AMBER
DICKEY RD. FLASHES RED
CONTRACTOR TO VERFY & INSTALL
PROPER PHASING AND LOOP
TAGGING DURING CONSTRUCTION.

NOTES:
1. New signal controller to be connected to the existing signal service with a handhole at or near the existing controller, or as directed.
2. See ramp detail for push button pedestals locations.
3. Unused signal handholes are to be removed.
4. Additional conduits may be required per INDOT & NEC conduit capacity full requirements.

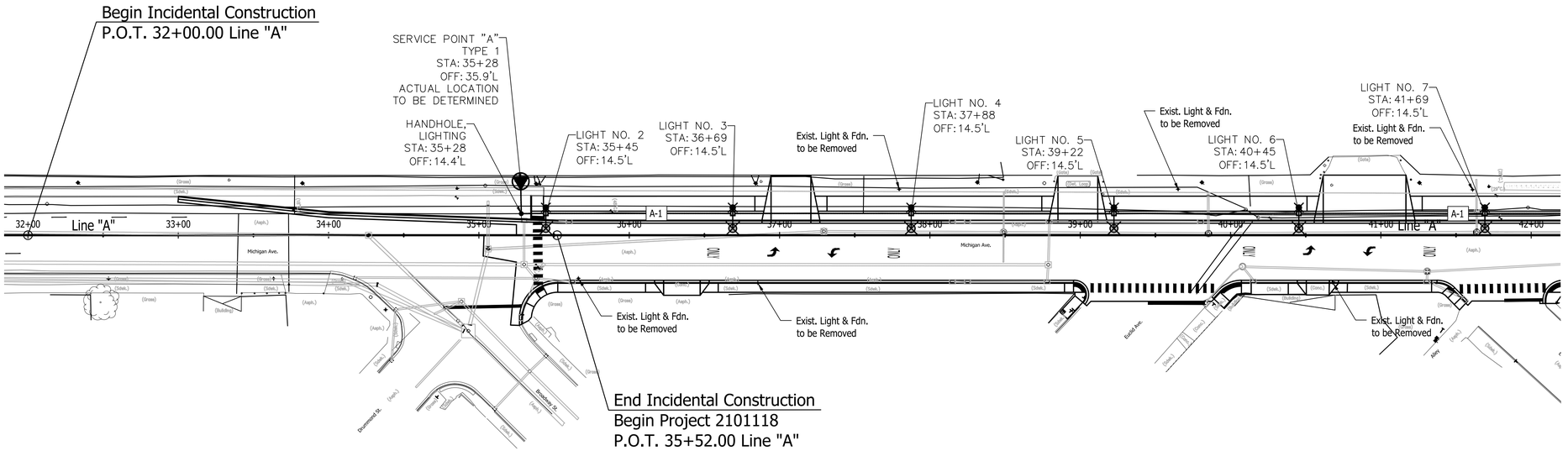
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

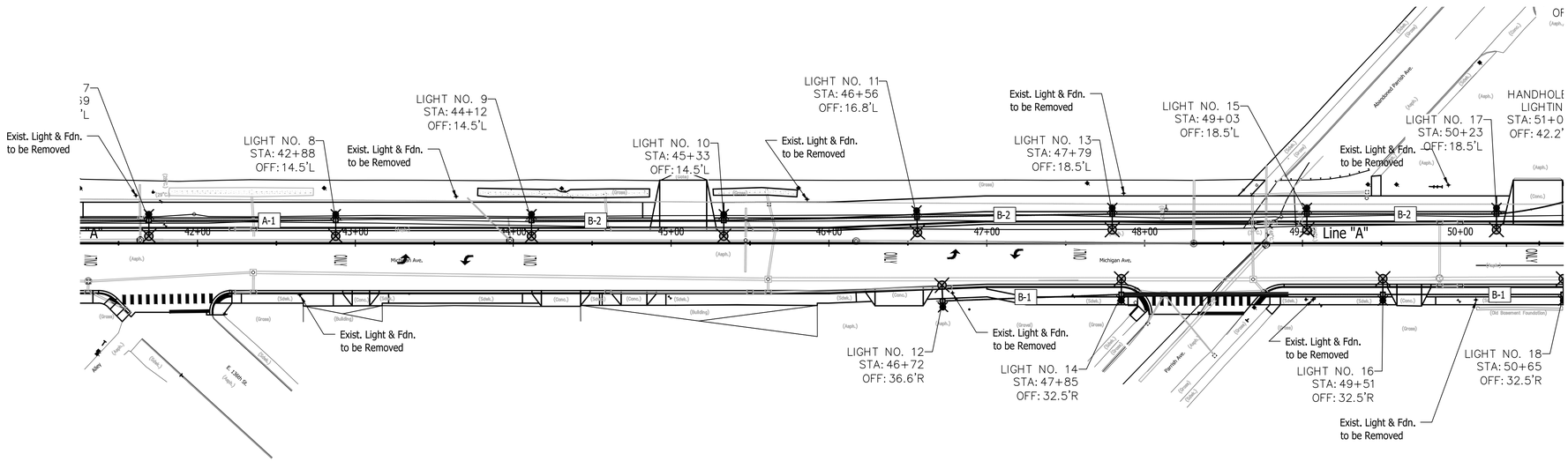
DESIGNED: T.F.S. DRAWN: J.P.H.
CHECKED: D.W.C. CHECKED: T.F.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
LIGHTING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	42 of XX
CONTRACT	PROJECT
R-44001	2101118





LEGEND

- OVERHEAD LUMINAIRE, 25 FT. MOUNTING HEIGHT AND POST TOP LUMINAIRE 12 FT. MOUNTING HEIGH AND 3 FT. DIA. x 8 FT. FOUNDATION (ANCHOR BASE)
- SERVICE POINT TYPE 2 WITH WEATHER HEAD, RISER AND 5 FT. UTILITY CONNECTION DROP ON WOOD POLE
- WIRE, NO. 6, COPPER, IN PLASTIC DUCT, IN TRENCH, 4 I/C
- WIRE, NO. 6, COPPER, IN PLASTIC DUCT, IN CONDUIT 1C
- A-1 — LIGHTING CIRCUIT NUMBER

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: T.F.S. DRAWN: J.P.H.

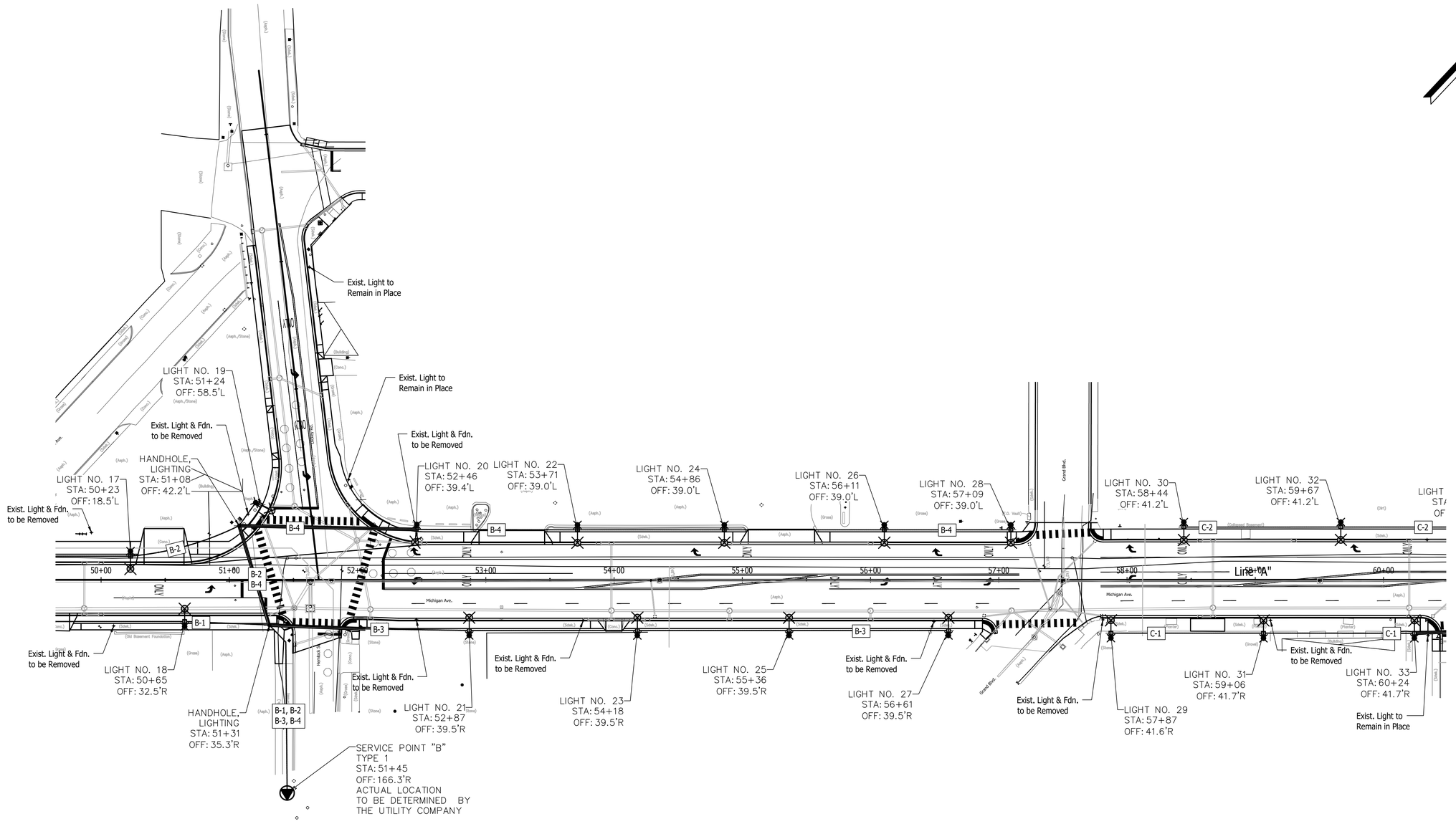
CHECKED: D.W.C. CHECKED: T.F.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
LIGHTING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118

SURVEY BOOK	SHEETS
N/A	43 of XX
CONTRACT	PROJECT
R-44001	2101118



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

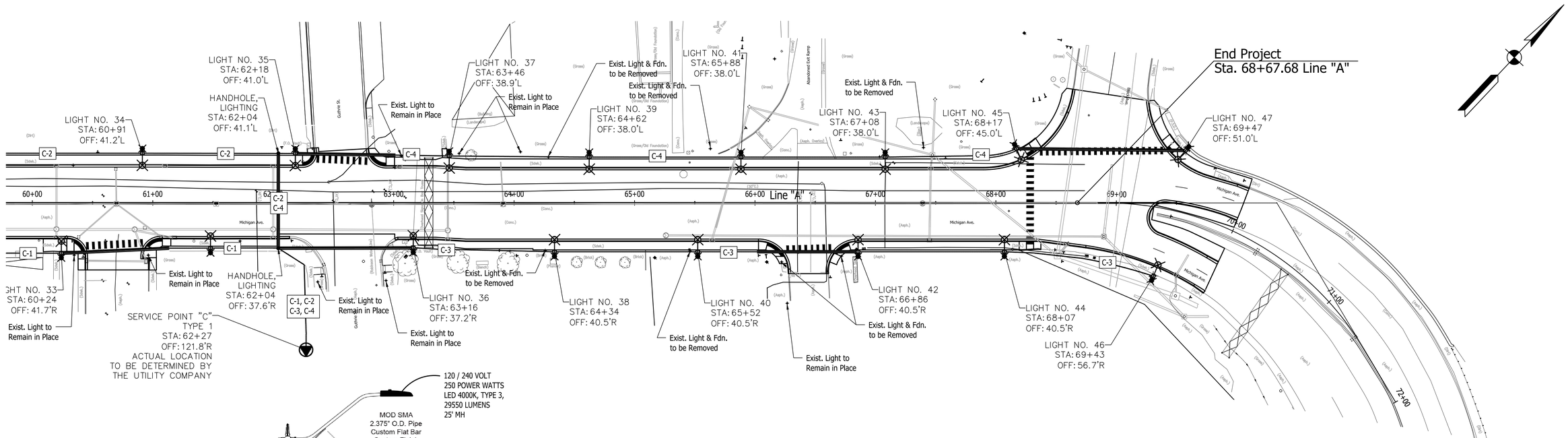
DESIGNED: T.F.S. DRAWN: J.P.H.

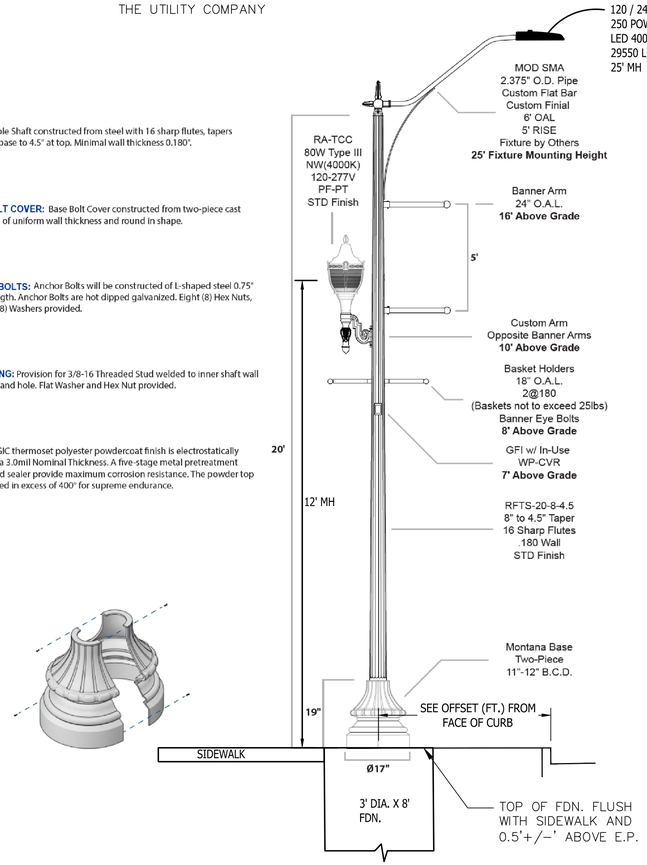
CHECKED: D.W.C. CHECKED: T.F.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
LIGHTING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	44 of XX
CONTRACT	PROJECT
R-44001	2101118





SHAFT: Pole Shaft constructed from steel with 16 sharp flutes, tapers from 8" at base to 4.5" at top. Minimal wall thickness 0.180".

BASE BOLT COVER: Base Bolt Cover constructed from two-piece cast aluminum, of uniform wall thickness and round in shape.

ANCHOR BOLTS: Anchor Bolts will be constructed of L-shaped steel 0.75" x 24" in length. Anchor Bolts are hot dipped galvanized. Eight (8) Hex Nuts, and eight (8) Washers provided.

GROUNDING: Provision for 3/8-16 Threaded Stud welded to inner shaft wall opposite hand hole. Flat Washer and Hex Nut provided.

FINISH: TGIC thermoset polyester powdercoat finish is electrostatically applied at a 3.0mil Nominal Thickness. A five-stage metal pretreatment process and sealer provide maximum corrosion resistance. The powder top coat is baked in excess of 400° for supreme endurance.

SERVICE AMPERAGE TABLE

SERVICE POINT	LOCATION	SERVICE TYPE	SERVICE VOLTAGE	MAIN BREAKER	CIRCUIT NO.	BRANCH CIRCUIT COLOR	BRANCH CIRCUIT BREAKER	BRANCH CIRCUIT DESIGN LOAD	BRANCH CIRCUIT END VOLTAGE	BRANCH CIRCUIT VOLTAGE DROP
			(VOLTS)				(AMPS)	(AMPS)	(VOLTS	(PERCENT)
A	35+28.0 LT	1	120 / 240	100	A-1	RED	30	14.4	114.6	4.5%
						BLACK	30	10.8	115.7	3.6%
B	51+45.0 R.	2	120 / 240	100	B-1	RED	30	7.2	117.7	1.9%
						BLACK	30	7.2	117.3	2.2%
					B-2	RED	30	10.8	115.0	4.1%
						BLACK	30	10.8	114.4	4.7%
					B-3	RED	30	7.2	117.4	2.2%
						BLACK	30	7.2	16.9	2.6%
					B-4	RED	30	10.8	114.9	4.2%
						BLACK	30	10.8	114.2	4.9%
C	52+27.0 RT	2	120 / 240	100	C-1	RED	30	7.2	117.8	1.8%
						BLACK	30	7.2	117.4	2.2%
					C-2	RED	30	7.2	116.2	3.2%
						BLACK	30	3.6	117.4	2.1%
					C-3	RED	30	10.8	115.9	3.4%
						BLACK	30	10.8	115.3	3.9%
					C-4	RED	30	14.4	112.3	6.4%
						BLACK	30	10.8	113.8	5.1%

LUMINAIRE DESIGN TABLE		
LUMINAIRE STYLE	SEE POLE DETAIL	
LAMP TYPE	SEE POLE DETAIL	
CLASSIFICATION	SEE POLE DETAIL	
IES FILE	SEE POLE DETAIL	
VOLTAGE	SEE POLE DETAIL	
NOMINAL MOUNTING HEIGHT (MH)	SEE POLE DETAIL	
LUMINAIRE LOAD OPERATING AMPS	3.6	
	ROADWAY	SDEWALK
AVG. ILLUMINANCE (fc)	1.7 TO 2.3	1.2 TO 2.1
MIN. ILLIMINANCE (fc)	0.6 TO 0.8	0.4 TO 0.6
UNIFORMITY RATIO (AVG. / MIN.)	2.8 TO 3.5	3.0 TO 4.2

LUMINAIRE SUMMARY TABLE

LUMINAIRE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
LOCATION	35+45	36+69	37+88	39+22	40+45	41+69	42+88	44+12	45+33	46+56	46+72	47+79	47+85	49+03	49+51	50+23	50+65	51+24	52+46	52+87	53+71	54+18	54+86	55+36
SIDE	LT.	LT.	LT.	LT.	LT.	LT.	LT.	LT.	LT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	LT.	RT.	LT.	RT.	LT.	RT.
OFFSET (FT.) FROM LINE "A"	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	16.8	36.6	18.5	32.5	18.5	32.5	18.5	32.5	58.5	39.4	39.5	39.0	39.5	39.0	39.5
OFFSET (FT.) FROM FACE OF CURB	4.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	8.0	5.0	5.0	5.0	5.0	5.0	5.0	8.0	10.0	8.0	10.0	8.0	10.0	8.0
CIRCUIT NO.	A-1	A-1	A-1	A-1	A-1	A-1	A-1	B-2	B-2	B-2	B-1	B-2	B-1	B-2	B-1	B-2	B-1	B-4	B-4	B-3	B-4	B-3	B-4	B-3
CIRCUIT COLOR	RED	BLACK	RED	BLACK	RED	BLACK	RED	BLACK	RED	BLACK	BLACK	RED	RED	BLACK	BLACK	RED	RED	RED	BLACK	RED	RED	BLACK	BLACK	RED
CONNECTION TYPE	2	2	2	2	2	2	1	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2

ALL ANCHOR BOLT CONNECTIONS TO BE NON-BREAK-A-WAY

LUMINAIRE SUMMARY TABLE

LUMINAIRE NO.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	
LOCATION	56+11	56+61	57+09	57+87	58+44	59+06	59+67	60+24	60+91	61+48	62+18	63+16	63+46	64+34	64+62	65+52	65+88	65+86	67+08	68+07	68+17	69+43	69+47	
SIDE	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	
OFFSET (FT.) FROM LINE "A"	39.0	39.5	39.0	41.6	41.2	41.7	41.2	41.7	41.2	37.5	41.0	37.2	38.9	40.5	38.0	40.5	38.0	40.5	38.0	40.5	45.0	56.7	51.0	
OFFSET (FT.) FROM FACE OF CURB	10.0	8.0	10.0	12.2	10.0	12.3	10.0	12.4	10.0	8.0	10.0	7.2	9.2	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.0	8.4	10.0	
CIRCUIT NO.	B-4	B-3	B-4	C-1	CC-2	C-1	C-2	C-1	C-2	C-1	C-4	C-3	C-4	C-3	C-4	C-3	C-4	C-3	C-4	C-3	C-4	C-3	C-4	
CIRCUIT COLOR	RED	BLACK	BLACK	BLACK	RED	RED	BLACK	BLACK	RED	RED	RED	RED	BLACK	BLACK	RED	RED	BLACK	BLACK	RED	RED	BLACK	BLACK	RED	
CONNECTION TYPE	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: T.F.S. DRAWN: J.P.H.
CHECKED: D.W.C. CHECKED: T.F.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

MICHIGAN AVENUE
LIGHTING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	45 of XX
CONTRACT	PROJECT
R-44001	2101118

Summary of Quantities and Approach Table

Location (Station)	Description (Approach Type Or Class)	Width	Length	Distance Beyond R/w Line	Radii	Grade (Less Than 10% Not Shown)		Excavation		HMA Surface Type D-SMA 9.5 mm		HMA Surface Type D 9.5 mm		HMA Intermediate Type D 19.0 mm			HMA Base Type D 25.0 mm		HMA for Sidewalk				Compacted Aggregate Base No. 53		Pccp For Approaches		Dense Graded Subbase		Geogrid Type IB	Subgrade Treatment			Pavement Removal	Asphalt Material for Tack Coat	Sidewalk, Concrete	Combined Concrete Curb and Gutter	Concrete Roll Curb	Asphalt Milling 1 ½ In.	Joint Adhesive, Surface	Joint Adhesive, Intermediate	Liquid Asphalt Sealant	Sodding (Nursery)	Topsoil	Concrete, Foundation, or Collar, Remove	Basement, Block and Waterproof	Concrete Foundation, Remove			
								Cyds.		Lbs. Per Syd.		Lbs. Per Syd.		Lbs. Per Syd.			Lbs. Per Syd.		HMA Surface Type B		HMA Intermediate Type B									Type																				
		"W"	"L"			1	2	Cut	Fill	165		165		275			330	330	140		220		3 In	6 In	6 In.	9 In.	6 In.			IC	II	III																	
		Ft.	Ft.	Ft.	Ft.	%	%		+25%	Tons		Tons		Tons			Tons	Tons	Tons		Tons		Tons	Tons	Sys.	Sys.	Cys.		Sys.	Sys.	Sys.	Sys.	Sys.	Tons	Sys.	Lft.	Lft.	Sys.	Lft.	Lft.	Lft.	Sys.	Cys.	Cys.	Each	Each			
Line "A"																																																		
36+35.0 Rt.	Mod. Class I	24.3	10.0	-	-																			36			6			36																			
37+07.6 Lt.	Mod. Class III	26.5	31.5	-	-																					116	20		116		116																		
39+44.6 Rt.	Street Approach	80.9	14.0	-	8.0 - 20.0							12		20			24	27					26							164				0.2		52												
38+98.4 Lt.	Mod. Class III	26.5	31.5	-	-																					116	20		116		116																		
40+58.0 Rt.	Mod. Class I	15.1	7.8	-	-																			19			3				19						28											
40+89.7 Lt.	Mod. Class III	55.0	32.0	-	-																					219	37		219		219																		
41+83.1 Rt.	Street Approach	50.5	13.8	-	15.0 - 12.0							8		14			16	19					19							117				0.1		48												
43+04.2 Rt.	Mod. Class I	11.1	7.7	-	-																			16			3				16						23											
44+30.3 Rt.	Mod. Class I	24.8	10.0	-	-																			36			6				36																	
44+76.3 Rt.	Mod. Class I	16.4	7.3	-	-																			19			3				19						29											
45+07.8 Lt.	Mod. Class III	29.8	32.0	-	-																					129	22		129		129																		
46+44.5 Rt.	Mod. Class I	30.6	11.4	-	-																			48			8				48																	
48+32.4 Rt.	Street Approach	57.7	19.1	-	15.0 - 20.0							13		21			25	29					29							175				0.2		55												
49+67.6 Rt.	Mod. Class I	15.6	11.7	-	-																			29			5				29						28											
50+49.1 Lt.	Mod. Class III	31.2	28.0	-	-																					117	20		117		117																		
51+61.5 Lt.	Street Approach	52.6	42.0	-	75.0 - 75.0					36				60			71	79					80							502				0.4		161												
51+68.4 Rt.	Street Approach	34.0	23.4	-	15.0 - 10.0					9				14			17	21					21							128				0.1		62												
53+20.3 Lt.	Mod. Class III	51.1	11.0	-	-																					72	12		72		72																		
53+99.9 Rt.	Mod. Class I	12.6	8.0	-	-																						17		3		17						25											
55+30.5 Lt.	Mod. Class III	51.8	12.0	-	-																					79	14		79		79																		
57+17.0 Rt.	Street Approach	48.8	24.6	-	10.0 - M.E.					14				23			28	31					31							187				0.2		48												
57+50.0 Lt.	Street Approach	39.9	16.0	-	15.0 - 10.0					8				12			15	18					17							105				0.1		44												
60+68.1 Rt.	Street Approach	47.0	27.8	-	15.0 - 15.0					14				22			27	31					31							190				0.2		66												
62+56.3 Lt.	Street Approach	42.0	14.5	-	10.0 - 15.0					7				11			14	17					16							99				0.1		42												
66+44.4 Rt.	Street Approach	29.6	28.7	-	25.0 - 25.0					11				18			22	27					27							170				0.1		88												
66+92.5 Lt.	Street Approach	60.0	62.8	-	75.0 - 70.0					54				89			107	117					120							735				0.5		200												
Line "D"																																																		
16+90.0 Lt.	Mod. Street Approach	35.5	35.7	-	M.E. - 18.0					17				14			16	18					18							107				0.1		25		110										
18+36.0 Lt.	Mod. Alley Approach	13.3	12.0	-	-																					18	3		18		18																		
18+82.0 Rt.	Mod. Class III	32.0	7.0	-	-																			21			4				21						42											
Subtotals From Above										170		33		318			382	434					435		224	866	203		869	2679	1107		2.4		891	175	110										
Mainline Line "A"										1000		580		3000			3100	3370	200		320		3420	1020						21200		3750		16.0	1598	5409			10340	10340	10340							
Mainline Line "D"										100				150			180	194					200							1250				1.0	245	274			450	450	450							
Totals										1270		613		3468			7660		520				5075		224	866	203		869	25129	1107	3750		19.4	1843	6574	175	110	10790	10790	10790							

First Group Engineering Inc.

5925 Lakeside Blvd.
Indianapolis, Indiana 46278
Phone (317) 290-9549

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
APPROACH TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118

SURVEY BOOK	SHEETS
N/A	46 of XX
CONTRACT	PROJECT
R-44001	2101118

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	LIFE SERVICE	SITE DESIGNATION	pH	STRUCTURE BACKFILL CU. YDS. TYPE 1	STRUCTURE BACKFILL CU. YDS. TYPE 5	REVETMENT RIPRAP	GEOTEXTILES	VIDEO INSPECTION FOR PIPE	PIPE END SECTION	REMARKS
					INCHES			FT.			ELEV.	ELEV.	YR.			TYPE 1	TYPE 5	TONS	SYS.	LFT.	EA.	
	Line "A"																					
11	35+06.1		X				Exist. San. M.H.				*	586.93										Adjust Casting to Grade
					24		Exist. Sani Pipe				576.13	576.00										Connect to Str. No. 18
12	35+27.0		X				Inlet Type "J-10"				*	586.00										
					12	2	Pipe	25		5	583.00	581.30	75	N.		18				25		Connect to Str. No. 15
13	35+30.0		X				Exist. Storm M.H.				*	586.67										Adjust Casting to Grade
					24		Pipe				578.84											Connect to Str. No. 15
14	35+30.1	X					Inlet Type "M-10"				*	586.88										
					12	2	Pipe	5		3	581.77	581.59±	75	N.		3				5		Connect to Exist. Storm Pipes & Str. No. 16
15	35+38.1		X				M.H. Type "C-4"				*	586.35										
					15	2	Pipe	9		2	581.30	581.27	75	N.		4				9		Connect to Str. No. 12, 13 & 17 & Exist. SW
					12	2	Pipe SW	5		2	581.30	581.27	75	N.		2				5		
16	35+62.0	X					Inlet Type "J-10"				*	587.06										
					12	2	Pipe	28		2	584.06	581.77	75	N.		7				28		Connect to Str. No. 14
17	35+62.0		X				Inlet Type "J-10"				*	586.62										
					12	2	Pipe	21		2	583.62	581.30	75	N.		6				21		Connect to Str. No. 15
18	37+29.5	X					M.H. Type "C-4" SS				*	587.04										
					15	2	PVC26 or R.C.P. Pipe SS	220		8	576.60	576.13	75	N.		286				220		Connect to Str. Nos. 11 & 23
19	38+15.0	X					Inlet Type "J-10"				*	586.77										
					12	2	Pipe	8		1.5	583.77	583.67	75	N.		2				8		Connect to Str. No. 21
20	38+15.0		X				Inlet Type "J-10"				*	586.41										
					12	2	Pipe	8		1.5	583.74	583.41	75	N.		2				8		Connect to Str. No. 21
21	38+25.0	X					Inlet Type "M-10"				*	586.77										
					12	2	Pipe	52		2	583.67	583.00	75	N.		13				52		Connect to Str. Nos. 19 & 24
22	38+25.0		X				Inlet Type "J-10"					586.41										
					12	2	Pipe	52		2	583.41	582.54	75	N.		13				52		Connect to Str. Nos. 20 & 26
23	38+49.0	X					M.H. Type "C-4" SS				*	586.92										
					15	2	PVC26 or R.C.P. Pipe SS	115		8	576.85	576.60	75	N.		139				115		Connect to Str. Nos. 18, 29 & 8" NW
					8	2	Pipe NW SS	5			M.E.	M.E.	75	N.		5						
24	38+79.0	X					Inlet Type "M-10" w/o box				*	586.76										
					12	2	Pipe	5		2	583.00	582.37±	75	N.		2				5		Connect to Exist.Pipe to Str. No. 25 & 21 & 27
25	38+79.0		X				Exist. Storm M.H.				*	586.49										Adjust Casting to Grade
											580.81	579.27										Connect to Str. No. 26 Clean Out Pipe Downstream
26	38+79.0		X				Inlet Type "M-10"				*	586.41										
					12	2	Pipe	9		1	582.54	582.44	75	N.		2				9		Connect to Str. Nos. 22 & 25
27	39+80.0	X					Inlet Type "J-10"				*	587.07										Connect to Str. No. 24
					12	2	Pipe	98		1	584.05	583.00	75	N.		24				98		
28	39+83.0		X				Existing Inlet															Connect to Str. No. 30
					6	2	Pipe				M.E.	M.E.										
29	39+85.3	X					M.H. Type "C-4" SS				*	587.24										
					15	2	PVC26 or R.C.P. Pipe SS	134		8	577.14	576.85	75	N.		174				134		Connect to Str. Nos. 23, 35
					12	2	Pipe W. SS	24		6	579.70±	579.68	75	N.		29				24		Connect to Exist. San. Pipe NW
30	40+08.0		X				M.H. Type "C-4"				*	587.06										
					12	2	Pipe	120		4	583.31	582.64	75	N.		70				120		Connect to Str. No. 31, 32 & Exist. 6" S.
					6	2	Pipe S	8		2	M.E.	M.E.	75	N.		1						
31	40+15.0		X				Inlet Type "J-10"				*	586.91										
					12	2	Pipe	10		2	583.91	583.31	75	N.		3				12		Connect to Str. No. 30
32	41+30.0		X				M.H. Type "C-4"				*	587.07										
					12	2	Pipe	102		3	582.64	582.03	75	N.		26				102		Connect to Str. Nos. 30, 33 & 39
33	41+30.0		X				Inlet Type "J-10"				*	586.93										
					12	2	Pipe	5		1	583.53	583.33	75	N.		1				5		Connect to Str. No. 32
34	41+56.2		X				Inlet Type "J-10"				*	586.75										
					12	2	Pipe	26		1	584.08	583.53	75	N.		5				26		Connect to Str. No. 33

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	LIFE SERVICE	SITE DESIGNATION	pH	STRUCTURE BACKFILL CU. YDS. TYPE 1	STRUCTURE BACKFILL CU. YDS. TYPE 5	REVETMENT RIPRAP	GEOTEXTILES	VIDEO INSPECTION FOR PIPE	PIPE END SECTION	REMARKS
					INCHES			FT.			ELEV.	ELEV.	YR.			TYPE 1	TYPE 5	TONS	SYS.	LFT.	EA.	
	Line "A"																					
35	41+63.8	X					M.H. Type "C-4" SS				*	587.12										
					15	2	PVC26 or R.C.P. Pipe SS	175		7	577.38	577.14	75	N.		198				175		Connect to Str. No. 29, 41 & 10" N.W.
					10	2	Pipe N.W. SS	24		7	577.78±	577.76	75	N.		19				24		
36	42+22.0	X					Inlet Type "J-10"				*	586.99										
					12	2	Pipe	12		1	583.99	583.54	75	N.		2				12		Connect to Str. No. 38
37	42+22.0		X				Inlet Type "A-2"				*	586.67										
					12	2	Pipe	12		1	584.00	583.69	75	N.		2				12		Connect to Str. No. 40
38	42+35.8	X					Inlet Type "M-10"				*	586.99										
					12	2	Pipe	5		1	583.54	583.27±	75	N.		1				5		Connect to Str. No. 36 & Existing Pipe to Str. No. 39
39	42+35.3		X				Exist. Storm M.H.				*	586.94										Adjust Casting to Grade, Clean Out Pipe Downstream
											581.88	581.60										Connect to Str. Nos. 32, 38, 40 & 48
40	42+35.5		X				Inlet Type "M-10"				*	586.71										
					12	2	Pipe	10		2	582.08	581.88	75	N.		4				10		Connect to Str. Nos. 37 & 39
41	43+98.0	X					M.H. Type "C-4" SS				*	587.42										
					12	2	PVC26 or R.C.P. Pipe SS	232		7	578.07	577.76	75	N.		240				232		Connect to Str. Nos. 35, 44 & Existing 6" W.
					6	2	Pipe W. SS	30		3	586.69±	581.67	75	N.		8				30		
42	44+60.0	X					Inlet Type "J-10"				*	587.09										
					12	2	Pipe	88		2	584.42	583.89	75	N.		20				88		Connect to Str. No. 44
43	44+60.0		X				Inlet Type "J-10"				*	586.81										
					12	2	Pipe	88		2	584.14	583.61	75	N.		20				88		Connect to Str. No. 46
44	45+47.2	X					Existing 10" Pipe															
					10	2	Pipe	6		2	M.E.	M.E.	75	N.		2				6		Connect to Str. No. 45
45	45+50.0	X					Inlet Type "M-10"				*	586.89										
					12	2	Pipe	13		2	583.89	583.60	75	N.		3				13		Connect to Str. Nos. 42, 44 & 50
46	45+50.0		X				Inlet Type "M-10"				*	586.61										
					12	2	Pipe	9		1	583.61	583.33	75	N.		2				9		Connect to Str. Nos. 43 & 49
47	45+60.3	X					24" Pipe C.B.				*	586.62										
					12	2	Pipe	24		2	584.00	583.60	75	N.		5				24		Connect to Str. No. 50
48	45+61.5		X				Exist. Storm M.H.				*	586.76										Connect to Str. Nos. 39, 49, 50 & 58
											579.58	578.26										Adjust Casting to Grade, Clean Out Pipe Downstream
49	45+61.5		X				Inlet Type "M-10"				*	586.63										
					12	2	Pipe	6		2	583.33	582.75	75	N.		1				6		Connect to Str. Nos. 46, 48 & 52
50	45+66.0	X					Inlet Type "M-10"				*	586.90										
					12	2	Pipe	30		2	583.60	582.75	75	N.		8				30		Connect to Str. Nos. 45, 47 & 48
51	46+17.3	X					M.H. Type "C-4" SS				*	587.19										
					12	2	PVC26 or R.C.P. Pipe SS	218		8	578.72	578.07	75	N.		275				218		Connect to Str. Nos. 41 & 55
52	46+76.0		X				Inlet Type "J-10"				*	586.94										
					12	2	Pipe	112		2	584.27	583.33	75	N.		29				112		Connect to Str. No. 49
53	47+96.0		X				Furnish & Adjust to Grade Type				*	586.66										
							15 Casting on Existing Inlet				Exist.	Exist.										Clean Out Existing Pipe Downstream
54	48+12.4		X				Existing Storm C.B.				*	586.22										Adjust Casting to Grade &
							15 Casting on Existing Inlet				583.63	Exist.										Clean Out Existing Pipe Downstream
55	48+31.1		X				M.H. Type "C-4" SS				*	587.31										
					12	2	PVC26 or R.C.P. Pipe SS	210		6	579.35	578.72	75	N.		183				210		Connect to Str. No. 51
					12	2	Pipe W. SS	27		5	580.20±	580.18	75	N.		20				27		Connect to Exist. San. Pipe West
56	48+44.3		X				Existing Inlet				*	Exist.										Clean Out Existing Inlet & Pipe Downstream
											Exist.	Exist.										
57	48+68.4	X					Inlet Type "J-10"				*	586.96										
					12	2	Pipe	34		2	583.90	583.02	75	N.		9				34		Connect to Str. No. 58

LEGEND FOR ABBREVIATION

A.C.S.2.	ALUMINUM COATED STEEL TYPE 2	C.M.P.	CORRUGATED METAL PIPE
C.S.	CORRUGATED STEEL	D.I.F.	DETERMINE IN FIELD
C.A.	CORRUGATED ALUMINUM	C.P.P.	CORRUGATED PLASTIC PIPE
S.P.S.	STRUCTURAL PLATE STEEL	R.C.P.	REINFORCED CONCRETE PIPE
G.B.E.S.	GRATED BOX END SECTION	M.E.	MATCH EXISTING ELEVATION
V.C.P.	VITRIFIED CLAY PIPE, EXTRA STRENGTH	DI	DUCTILE IRON PIPE, CLASS 350
S.M.E.S.	SAFETY METAL CULVERT END SECTION	PVC26	PVC ASTM-D 3034 SDR 26
*	INDICATES RIM ELEVATION	PVC35	PVC ASTM-D 3034 SDR 35
A.	ABRASIVE	SS	M.H. & PIPE FOR SANITARY SEWER
N.	NON-ABRASIVE		

First Group Engineering Inc.
5925 Lakeside Blvd.
Indianapolis, Indiana 46278
Phone (317) 290-9549

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA TABLE NO. 1

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	47 of XX
CONTRACT	PROJECT
R-44001	2101118

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	LIFE SERVICE	SITE DESIGNATION	pH	STRUCTURE BACKFILL CU. YDS. TYPE 1	STRUCTURE BACKFILL CU. YDS. TYPE 5	REVETMENT RIPRAP	GEOTEXTILES	VIDEO INSPECTION FOR PIPE	PIPE END SECTION	REMARKS
					INCHES			FT.			ELEV.	ELEV.	YR.			TYPE 1	TYPE 5	TONS	SYS.	LFT.	EA.	
	Line "A"																					
58	48+68.8		X				Exist. Storm M.H.				*	586.75										Adjust Casting to Grade, Clean Out Pipe Downstream
											578.19	578.00										Connect to Str. Nos. 48, 57, 59 & 62
59	48+75.2		X				Furnish & Adjust to Grade Type				*	586.61										
							15 Casting on Existing Inlet				581.69	581.31										Clean Out Existing Pipe Downstream
60	48+77.0		X				M.H. Type "C-4"				*	587.15										
					21	2	Pipe	50		10	573.02	572.99±	75	N.		105				50		Connect to Exist. San. Pipe S. & Str. No. 71
					10	2	Pipe W.	28		5	580.71±	580.69	75	N.		20				28		Connect to Exist. San. Pipe West
61	49+87.0	X					Inlet Type "M-10"				*	586.67										
					12	2	Pipe	33		2	583.13	582.29	75	N.		9				33		Connect to Str. Nos. 62 & 64
62	49+87.0		X				M.H. Type "C-4"				*	586.46										Connect to Str. Nos. 58, 61,3 & 68
					24	2	Pipe 5' S.W. & 5' N.E.	10		8	578.00	577.60	75	N.		12				10		Clean Out Existing Pipe Downstream
63	49+87.0		X				Inlet Type "M-10"				*	586.36										
					12	2	Pipe	3		3	582.39	582.29	75	N.		1				3		Connect to Str. Nos. 62 & 65
64	50+00.0	X					Inlet Type "J-10"				*	586.69										
					12	2	Pipe	10		2	583.69	583.17	75	N.		3				10		Connect to Str. No. 61
65	50+00.0		X				Inlet Type "J-10"				*	586.38										
					12	2	Pipe	10		2	583.38	582.39	75	N.		3				10		Connect to Str. No. 63
66	51+33.8	X					Inlet Type "J-10"				*	586.45										
					12	2	Pipe	16		2	583.45	582.96	75	N.		4				16		Connect to Str. No. 70
67	51+30.0		X				Inlet Type "J-10"				*	586.81										
					12	2	Pipe	20		2	583.81	581.28	75	N.		6				20		Connect to Str. No. 68
68	51+50.5		X				M.H. Type "C-4"				*	586.91										Connect to Str. Nos. 62, 67, 69 & 72
					24	2	Pipe 8' S.W. & 10' N.E.	18		10	575.32	575.00	75	N.		32				10		
69	51+51.0		X				Inlet Type "M-10"				*	586.60										
					12	2	Pipe	26		3	583.00	581.28	75	N.		9				26		Connect to Str. Nos. 68 & 73
70	51+51.0	X					M.H. Type "C-4"				*	586.55										Connect to Str. Nos. 66, 75 & 136
					15	2	Pipe	54		6	579.35	579.08	75	N.		48				54		
71	51+63.3	X					M.H. Type "C-4" SS				*	587.32										Connect to Str. Nos. 60 & 85
					18	2	PVC26 or R.C.P. Pipe SS	283		12	573.29	573.02	75	N.		610				283		
72	51+63.3		X				M.H. Type "D-4"				*	586.91										Connect to Str. Nos. 68 & 76
					30	2	Pipe	10		11	573.83	572.7+/-	75	N.		24				10		
73	51+85.6		X				Inlet Type "J-10"				*	586.45										
					12	2	Pipe	36		2	583.45	583.00	75	N.		9				36		Connect to Str. No. 69
74	51+91.3	X					Inlet Type "J-10"				*	586.30										
					12	2	Pipe	26		2	583.30	583.00	75	N.		6				26		Connect to Str. No. 75
75	52+00	X					M.H. Type "C-4"				*	586.70										Connect to Str. Nos. 70, 74, 76 & 78
					12	2	Pipe	52		8	579.08	578.56	75	N.		69				52		
76	52+10.0		X				M.H. Type "C-4"				*	586.80										Connect to Str. Nos. 72, 75, 77 & 82
					18	2	Pipe	42		8	578.56	578.20	75	N.		62				42		
77	52+10.0		X				Inlet Type "J-10"				*	586.67										
					12	2	Pipe	5		2	583.67	583.00	75	N.		2				5		Connect to Str. No. 76
78	52+52.0	X					Inlet Type "J-10"				*	586.58										
					12	2	Pipe	50		2	583.58	583.00	75	N.		12				50		Connect to Str. No. 75
79	53+78.0		X				Inlet Type "J-10"				*	586.16										
					12	2	Pipe	18		2	583.16	582.67	75	N.		4				18		Connect to Str. No. 83
80	53+88.0	X					Inlet Type "J-10"				*	586.22										
					12	2	Pipe	8		2	583.72	583.22	75	N.		2				8		Connect to Str. No. 81
81	53+98.0	X					Inlet Type "M-10"				*	586.22										Connect to Str. Nos. 80, 82 & 86
					12	2	Pipe	50		2	583.22	582.90	75	N.		13				50		

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	LIFE SERVICE	SITE DESIGNATION	pH	STRUCTURE BACKFILL CU. YDS. TYPE 1	STRUCTURE BACKFILL CU. YDS. TYPE 5	REVETMENT RIPRAP	GEOTEXTILES	VIDEO INSPECTION FOR PIPE	PIPE END SECTION	REMARKS
					INCHES			FT.			ELEV.	ELEV.	YR.			TYPE 1	TYPE 5	TONS	SYS.	LFT.	EA.	
	Line "A"																					
82	53+98.0		X				M.H. Type "C-4"				*	586.29										Connect to Str. Nos. 76, 81, 83 & 87
					18	2	Pipe	190		5	579.57	579.01	75	N.		175				190		
83	53+98.0		X				Inlet Type "A-2"				*	586.15										
					12	2	Pipe	5		2	582.67	582.17	75	N.		2				5		Connect to Str. Nos. 79, 82 & 84
84	54+26.0		X				Inlet Type "J-10"				*	586.20										
					12	2	Pipe	26		2	583.20	582.67	75	N.		6				26		Connect to Str. No. 83
85	54+35.5		X				M.H. Type "C-4" SS				*	586.81										Connect to Str. Nos. 71 & 96
					15	2	PVC26 or R.C.P. Pipe SS	270		12	573.58	573.29	75	N.		600				270		
86	54+90.0	X					Inlet Type "M-10""				*	586.41										
					12	2	Pipe	90		2	584.23	583.22	75	N.		23				90		Connect to Str. Nos. 81 & 89
87	54+90.0		X				M.H. Type "C-4"				*	586.50										Connect to Str. Nos. 82, 88 & 90
					18	2	Pipe	90		6	579.85	579.57	75	N.		90				90		
88	54+90.0		X				Inlet Type "J-10""				*	586.38										
					12	2	Pipe	5		2	583.38	583.00	75	N.		1				5		Connect to Str. No. 87
89	56+00.0	X					Inlet Type "J-10""				*	587.77										
					12	2	Pipe	108		2	584.77	584.23	75	N.		28				108		Connect to Str. No. 86
90	56+00.0		X				M.H. Type "C-4"				*	586.86										Connect to Str. Nos. 87, 91 & 93
					18	2	Pipe	108		5	580.18	579.85	75	N.		140				108		
91	56+00.0		X				Inlet Type "J-10""				*	586.72										
					12	2	Pipe	5		2	583.72	583.36	75	N.		1				5		Connect to Str. No. 90
92	56+90.0		X				Inlet Type "A-2"				*	586.70										
					12	2	Pipe	28		2	583.70	582.17	75	N.		7				28		Connect to Str. No. 93
93	57+10.0		X				M.H. Type "C-4"				*	586.70										Connect to Str. Nos. 90, 92, 97 & 101
					18	2	Pipe	108		5	580.51	580.18	75	N.		140				108		
94	57+27.8		X				M.H. Type "C-4" SS				*	586.96										Connect to Str. No. 95 & Exist.
					15	2	PVC26 or R.C.P. Pipe SS	5		8	577.03	M.E.	75	N.		2				5		
95	57+47.10		X				M.H. Type "C-4" SS				*	587.14										
					15	2	PVC26 or R.C.P. Pipe SS	35		9	577.09	577.03	75	N.		50				35		Connect to Str. Nos. 94, 96 & Exist. 6" E.
					6	2	PVC26 Pipe SS	20		3	M.E.	577.26	75	N.		3						
96	57+50.2		X				M.H. Type "C-4" SS				*	587.34										
					15	2	PVC26 or R.C.P. Pipe SS	312		13	573.93	573.58	75	N.		730				312		Connect to Str. Nos. 85, 95, 108 & Exist. 15" N.W.
					15	2	PVC26 or R.C.P. Pipe S.E SS	10		12	577.70	577.93	75	N.		23				10		
					15	2	V.C.P. N.W. SS	40		11	M.E.	576.48	75	N.		85				40		
97	57+50.2		X				Inlet Type "E-7"				*	586.70										
					12	2	Pipe	46		2	583.70	583.00	75	N.		10				46		Connect to Str. No. 93
98	58+57.0	X					Inlet Type "J-10"				*	586.51										
					12	2	Pipe	8		1	583.51	583.30	75	N.		2				8		Connect to Str. No. 100
99	58+57.0		X				Inlet Type "J-10"				*	586.51										
					12	2	Pipe	8		1	583.51	583.30	75	N.		2				8		Connect to Str. No. 102
100	58+67.0	X					Inlet Type "M-10"				*	586.51										
					12	2	Pipe	52		1	583.30	583.00	75	N.		12				52		Connect to Str. Nos. 98, 101 & 103
101	58+67.0		X				M.H. Type "C-4"				*	586.64										Connect to Str. Nos. 93, 100, 102 & 105
					18	2	Pipe	154		4	580.92	580.51	75	N.		130				154		
102	58+67.0		X				Inlet Type "M-10"				*	586.51										
					12	2	Pipe	5		1	583.30	583.00	75	N.		1				5		Connect to Str. Nos. 99 & 101
103	59+30.0	X					Inlet Type "J-10"				*	586.60										
					12	2	Pipe	60		1	583.60	583.30	75	N.		14				60		Connect to Str. No. 100
104	60+20.0	X					Inlet Type "M-10"				*	586.98										
					12	2	Pipe	52		2	583.90	583.64	75	N.		12				52		Connect to Str. Nos. 105 & 111

LEGEND FOR ABBREVIATION

A.C.S.2.	ALUMINUM COATED STEEL TYPE 2	C.M.P.	CORRUGATED METAL PIPE
C.S.	CORRUGATED STEEL	D.I.F.	DETERMINE IN FIELD
C.A.	CORRUGATED ALUMINUM	C.P.P.	CORRUGATED PLASTIC PIPE
S.P.S.	STRUCTURAL PLATE STEEL	R.C.P.	REINFORCED CONCRETE PIPE
G.B.E.S.	GRATED BOX END SECTION	M.E.	MATCH EXISTING ELEVATION
V.C.P.	VITRIFIED CLAY PIPE, EXTRA STRENGTH	DI	DUCTILE IRON PIPE, CLASS 350
S.M.E.S.	SAFETY METAL CULVERT END SECTION	PVC26	PVC ASTM-D 3034 SDR 26
*	INDICATES RIM ELEVATION	PVC35	PVC ASTM-D 3034 SDR 35
A.	ABRASIVE	SS	M.H. & PIPE FOR SANITARY SEWER
N.	NON-ABRASIVE		

First Group Engineering Inc.
5925 Lakeside Blvd.
Indianapolis, Indiana 46278
Phone (317) 290-9549

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA TABLE NO. 2

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	48 of XX
CONTRACT	PROJECT
R-44001	2101118

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	LIFE SERVICE	SITE DESIGNATION	pH	STRUCTURE BACKFILL CU. YDS. TYPE 1	STRUCTURE BACKFILL CU. YDS. TYPE 5	REVETMENT RIPRAP	GEOTEXTILES	VIDEO INSPECTION FOR PIPE	PIPE END SECTION	REMARKS
					INCHES			FT.			ELEV.	ELEV.	YR.			TYPE 1	TYPE 5	TONS	SYS.	LFT.	EA.	
	Line "A"																					
105	60+20.0		X				M.H. Type "C-4"				*	587.14										Connect to Str. Nos. 101, 104, 106 & 109
					18	2	Pipe	150		5	581.34	580.92	75	N.		135				150		
106	60+20.0		X				Inlet Type "J-10"				*	587.00										
					12	2	Pipe	5		1	584.00	583.64	75	N.		1				5		Connect to Str. No. 105
107	60+45.0		X				Inlet Type "J-10"				*	587.10										
					12	2	Pipe	48		1	584.80	584.35	75	N.		6				48		Connect to Str. No. 110
108	60+69.8		X				M.H. Type "C-4" SS				*	587.76										Connect to Str. Nos. 96 & 120
					12	2	PVC26 or R.C.P. Pipe SS	315		13	575.04	573.93	75	N.		760				315		
109	60+85.0		X				M.H. Type "C-4"				*	587.40										Connect to Str. Nos. 105, 110, 112 & 114
					18	2	Pipe	62		5	581.54	581.34	75	N.		68				62		
110	60+94.0		X				Inlet Type "M-10"				*	587.35										
					12	2	Pipe	26		1	584.35	584.00	75	N.		7				26		Connect to Str. Nos. 107 & 109
111	61+10.0	X					Inlet Type "J-10"				*	587.34										
					12	2	Pipe	88		1	584.34	583.90	75	N.		18				88		Connect to Str. No. 104
112	60+94.0		X				Inlet Type "J-10"				*	587.40										
					12	2	Pipe	32		1	584.40	584.00	75	N.		8				32		Connect to Str. No. 109
113	62+00.0	X					Inlet Type "J-10"				*	587.70										
					12	2	Pipe	50		1	584.70	584.00	75	N.		12				50		Connect to Str. No. 114
114	62+00.0		X				M.H. Type "C-4"				*	587.88										Connect to Str. Nos. 109, 113, 115 & 118
					15	2	Pipe	114		5	581.89	581.54	75	N.		100				114		
115	62+00.0		X				Inlet Type "J-10"				*	587.74										
					12	2	Pipe	5		1	584.74	584.00	75	N.		1				5		Connect to Str. No. 114
116	63+05.0	X					Inlet Type "J-10"				*	588.24										
					12	2	Pipe	38		1	585.74	585.47	75	N.		7				38		Connect to Str. No. 117
117	63+45.0	X					Inlet Type "M-10"				*	588.47										
					12	2	Pipe	50		1	585.47	585.00	75	N.		10				50		Connect to Str. Nos. 116 & 118
118	63+45.0		X				M.H. Type "C-4"				*	588.62										Connect to Str. Nos. 114, 117 & 119
					15	2	Pipe	142		5	582.32	581.89	75	N.		90				142		
119	63+45.0		X				Inlet Type "J-10"				*	588.46										
					12	2	Pipe	5		1	585.46	585.00	75	N.		1				5		Connect to Str. No. 118
120	63+90.9		X				M.H. Type "C-4" SS				*	589.43										
					12	2	PVC26 or R.C.P. Pipe SS	318		13	576.15	575.04	75	N.		760				318		Connect to Str. Nos. 108, 124 & Exist. 6" N.W.
					6	2	V.C.P. SS	30		2	585.13	M.E.	75	N.		3						
121	63+90.9		X				M.H. Type "C-4" SS				*	589.29										
					12	2	PVC26 or R.C.P. Pipe SS	360		9	579.95	576.48	75	N.		585				360		Connect to Str. No. 130
122	65+64.5		X				Inlet Type "J-10"				*	589.03										
					12	2	Pipe	60		1	586.03	585.00	75	N.		14				60		Connect to Str. No. 123
123	65+81.0	X					Inlet Type "M-10"				*	589.00										
					12	2	Pipe	5		1	585.00	584.7+/-	75	N.		1				5		Connect to Str. No. 122 & Exist. N.W.
124	67+39.2		X				M.H. Type "C-4" SS				*	588.97										
					12	2	PVC26 or R.C.P. Pipe SS	345		11	577.38	576.15	75	N.		630				345		Connect to Str. No. 120 & Existing @ 68+62
					12	2	PVC26 or R.C.P. Pipe N.E. SS	122		11	577.38	M.E.	75	N.		230				122		
125	67+44.9		X				Inlet Type "J-10"				*	588.25										
					12	2	Pipe	58		1	585.25	583.80	75	N.		12				58		Connect to Str. No. 126
126	67+45.9	X					Inlet Type "M-10"				*	588.30										
					12	2	Pipe	8		1	583.80	581.85	75	N.		2				8		Connect to Str. Nos. 125 & 127
127	67+47.4	X					Exist. Storm M.H.				*	589.00										
					15		Exist. Pipe				581.89	581.85										Connect to Str. No. 126

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	LIFE SERVICE	SITE DESIGNATION	pH	STRUCTURE BACKFILL CU. YDS. TYPE 1	STRUCTURE BACKFILL CU. YDS. TYPE 5	REVETMENT RIPRAP	GEOTEXTILES	VIDEO INSPECTION FOR PIPE	PIPE END SECTION	REMARKS
					INCHES			FT.			ELEV.	ELEV.	YR.			TYPE 1	TYPE 5	TONS	SYS.	LFT.	EA.	
	Line "A"																					
128	68+51+/-		X				Exist. Storm M.H.				*	Exist.										Buried, could not find actual location,
					36		Exist. Pipe			1	Exist.	Exist.										Connect to Str. No. 129
129	68+58.0		X				Inlet Type "J-10"				*	587.78										
					12	2	Pipe	10		1	584.78	584.28	75	N.		2				10		Connect to Str. No. 128
130	68+89.7		X				M.H. Type "C-4" SS				*	587.89										
					18	2	PVC26 or R.C.P. Pipe N.W. SS	5		10	576.16	M.E.	75	N.		2				5		Connect to Str. No. 121 & Existing Pipes
					12	2	PVC26 or R.C.P. Pipe E. SS	5		10	576.16	M.E.	75	N.		2				5		
131	69+66.0		X				Inlet Type "J-10"				*	587.30										
					12	2	Pipe	15		3	583.25	582.20	75	N.		4				15		Connect to Str. No. 132
132	69+72.0		X				Exist. Storm M.H.				*	587.95										
					42		Exist. Pipe			1	581.32	Exist.										Connect to Str. No. 131
	Line "D"																					
133	17+24.0	X					Inlet Type "J-10"				*	585.82										
					12	2	Pipe	34		1	582.82	582.00	75	N.		7				34		Connect to Str. No. 134
134	17+24.0		X				M.H. Type "C-4"				*	586.00										Connect to Str. Nos. 133, 135, & 136
					12	2	Pipe	114		5	580.41	579.84	75	N.		80				114		
135	17+24.0		X				Inlet Type "J-10"				*	585.89										
					12	2	Pipe	5		1	582.89	582.00	75	N.		1				5		Connect to Str. No. 134
136	18+40.0		X				M.H. Type "C-4"				*	586.24										Connect to Str. Nos. 134, 137, 138 & 70
					12	2	Pipe	98		5	579.84	579.35	75	N.		70				98		
137	18+40.0		X				Inlet Type "J-10"				*	586.12										
					12	2	Pipe	4		1	583.12	582.90	75	N.		1				4		Connect to Str. No. 136
138	18+57.0	X					Inlet Type "J-10"				*	586.17										
					12	2	Pipe	34		1	583.17	582.90	75	N.		7				34		Connect to Str. No. 136

Structure Data Summary Des. 2101118

ITEM	QUANTITY	ITEM	QUANTITY
Pipe, Type 2, Circular, 4 in. (200)	200 Lft.	Manhole, "C-4"	20 Each
Pipe, Type 2, Circular, 6 in. (200)	208 Lft.	Manhole, "D-4"	1 Each
Pipe, Type 2, Circular, 10 in.(20)	54 Lft.	Adjust Casting to Grade (3)	10 Each
Pipe, Type 2, Circular, 12 in.(100)	2775 Lft.	Furnish and Adjust Casting to Grade –Type 15 Casting	2 Each
Pipe, Type 2, Circular, 15 in.(50)	370 Lft.	Structure Backfill Type 1 2,229 Cys.	2949 Cys.
Pipe, Type 2, Circular, 18 in.(50)	954 Lft.	Structure Backfill Type 1 (Sanitary Laterals) (720 Cys)	
Pipe, Type 2, Circular, 21 in.(20)	70 Lft.	Pipe, Remove	1110 Lft.
Pipe, Type 2, Circular, 24 in.(20)	50 Lft.	Manhole, Remove	4 Each
Pipe, Type 2, Circular, 30 in.(10)	20 Lft.	Flowable Backfill, Non–Removable (Undistributed)	100 Cys
Inlet, "J–10"	48 Each	Inlet, Remove	14 Each
Inlet, "M–10"	22 Each	Catch Basin, Remove	14 Each
Inlet, "A–2"	3 Each	Manhole, Modify (Undistributed)	10 Each
Inlet, "E–7"	1 Each	Clean Existing Pipe	1110 Lft.
Inlet, "M–10"without Curb Box	1 Each	Video Inspection for Pipe	4050 Lft.
24 in. Pipe Catch Basin	1 Each	Bypass Pumping	1 Ls.

(XXX) INDICATES UNDISTRIBUTED QUANTITY FOR UNDERGROUND CONNECTIONS NOT DISCOVERED DURING THE SURVEY & SANITARY LATERALS CONNECTIONS REQUIRED TO BE REPLACED DUE TO ROAD AND STORM SEWER CONSTRUCTION.

Sanitary Sewer Structure Data Summary

ITEM	QUANTITY
Pipe, Sanitary Sewer, 4 in. (1)200	200 Lft.
Pipe, Sanitary Sewer, 6 in. (1)200	280 Lft.
Pipe, Sanitary Sewer, 8 in. (1)200	210 Lft.
Pipe, Sanitary Sewer, 10 in. (1)200	224 Lft.
Pipe, Sanitary Sewer, 12 in. (1)50' FOR LATERAL CONNECTIONS	2226 Lft.
Pipe, Sanitary Sewer, 15 in. (1)50' FOR LATERAL CONNECTIONS	1366 Lft.
Pipe, Sanitary Sewer, 18 in. (1)50' FOR LATERAL CONNECTIONS	338 Lft.
Manhole, "C–4"	18 Each
Structure Backfill Type 1	6700 Cys.
Video Inspection for Pipe	4154 Lft.

(1) INDICATES UNDISTRIBUTED QUANTITY FOR SANITARY SEWERS & LATERAL CONNECTIONS.

TYPE 2 PIPE MATERIALS

PIPE TYPE/SHAPE	2/CIR
DUCTILE IRON PIPE, CLASS 350 12"	OK
LFRD NON–REINFORCED CONCRETE PIPE, CLASS 3 (S)	OK
REINFORCED CONCRETE CIRCULAR PIPE, CLASS II, LOAD=1000	OK
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)	OK
PVC ASTM–D 3034 SDR 26	OK

First Group Engineering Inc.
5925 Lakeside Blvd.
Indianapolis, Indiana 46278
Phone (317) 290-9549

LEGEND FOR ABBREVIATION

A.C.S.2.	ALUMINUM COATED STEEL TYPE 2	C.M.P.	CORRUGATED METAL PIPE
C.S.	CORRUGATED STEEL	D.I.F.	DETERMINE IN FIELD
C.A.	CORRUGATED ALUMINUM	C.P.P.	CORRUGATED PLASTIC PIPE
S.P.S.	STRUCTURAL PLATE STEEL	R.C.P.	REINFORCED CONCRETE PIPE
G.B.E.S.	GRATED BOX END SECTION	M.E.	MATCH EXISTING ELEVATION
V.C.P.	VITRIFIED CLAY PIPE, EXTRA STRENGTH	DI	DUCTILE IRON PIPE, CLASS 350
S.M.E.S.	SAFETY METAL CULVERT END SECTION	PVC26	PVC ASTM–D 3034 SDR 26
*	INDICATES RIM ELEVATION	PVC35	PVC ASTM–D 3034 SDR 35
A.	ABRASIVE	SS	M.H. & PIPE FOR SANITARY SEWER
N.	NON–ABRASIVE		

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

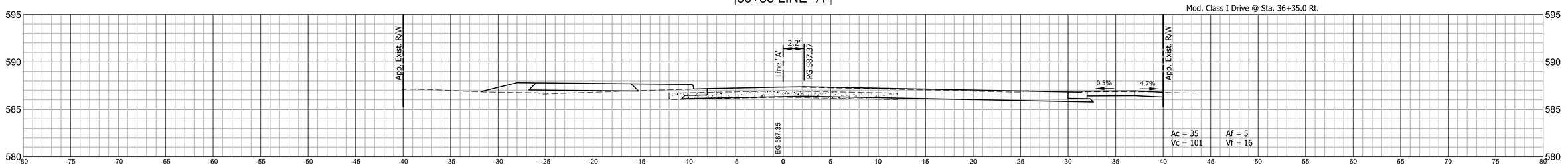
DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S.
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA DEPARTMENT OF TRANSPORTATION

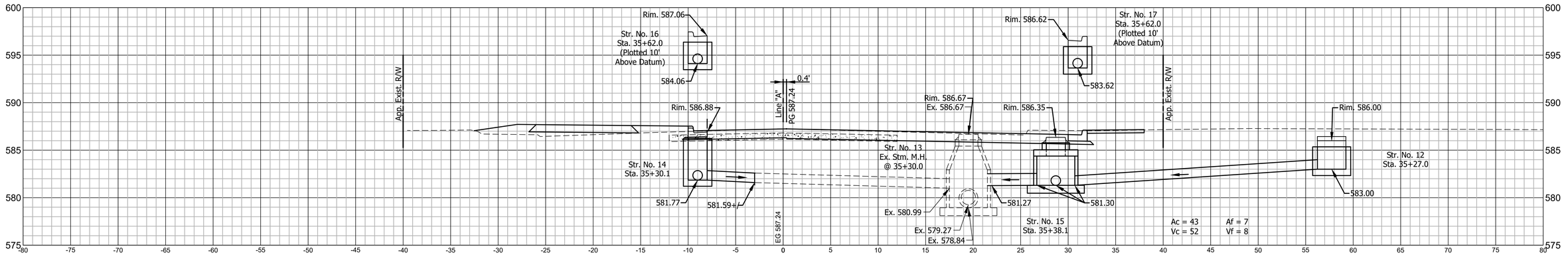
STRUCTURE DATA TABLE NO. 3

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101118
SURVEY BOOK	SHEETS
N/A	49 of XX
CONTRACT	PROJECT
R–44001	2101118

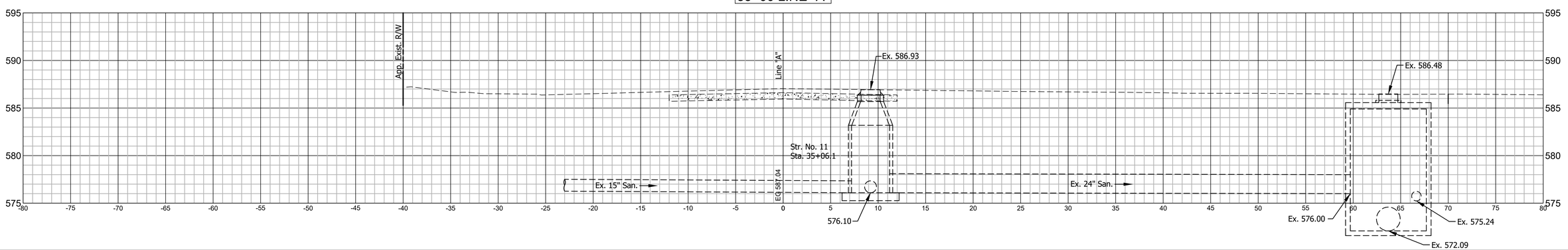
36+35 LINE "A"



35+65 LINE "A"



35+00 LINE "A"



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

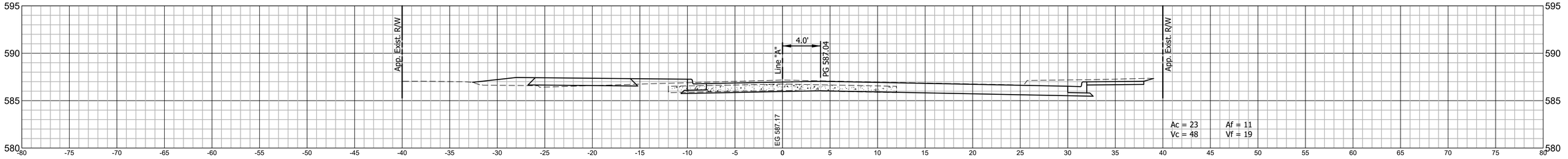
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

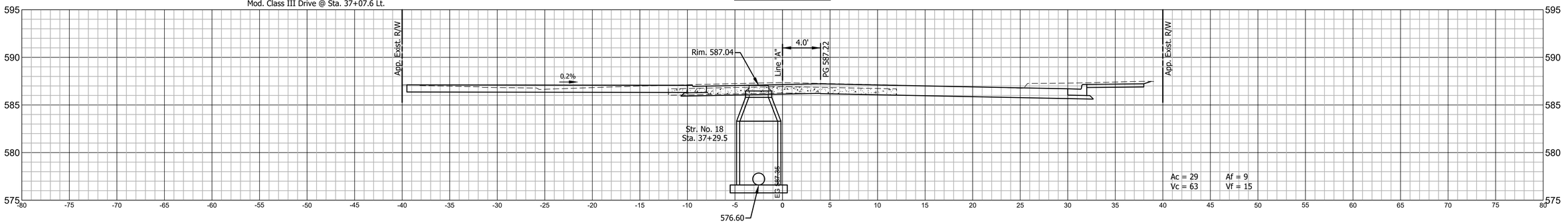
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	50 of XX
CONTRACT	PROJECT
R-44001	2101118

37+70 LINE "A"

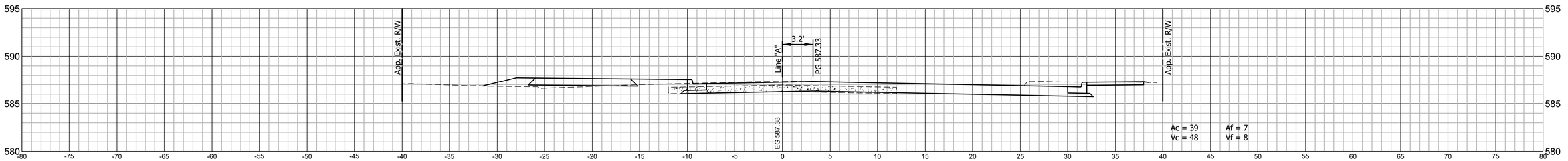


37+10 LINE "A"

Mod. Class III Drive @ Sta. 37+07.6 Lt.



36+70 LINE "A"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

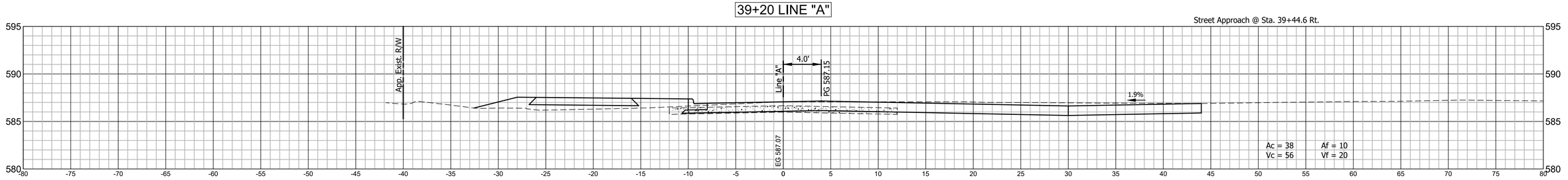
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

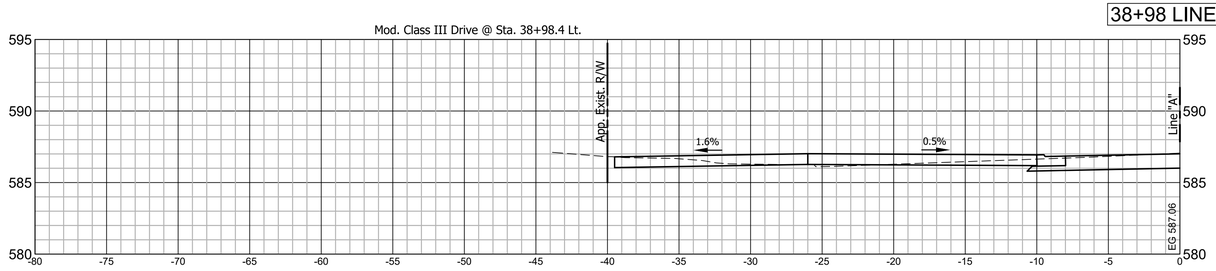
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	51 of XX
CONTRACT	PROJECT
R-44001	2101118

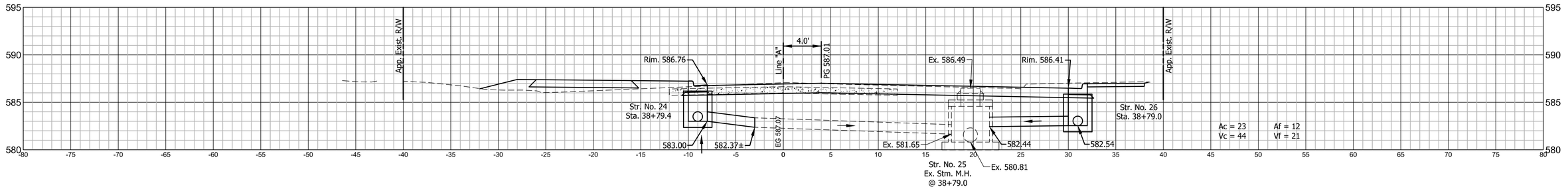
39+20 LINE "A"



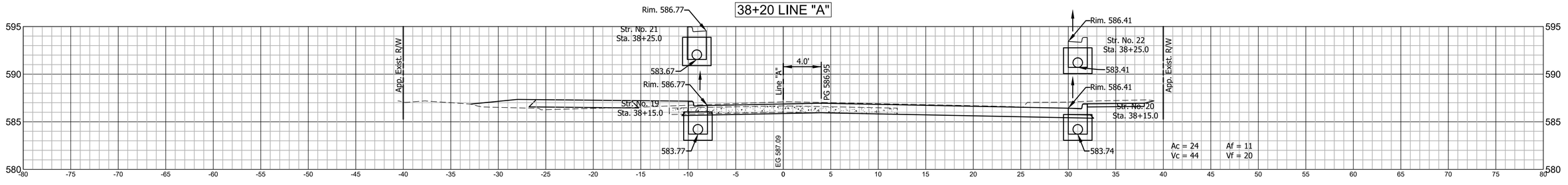
38+98 LINE "A"



38+70 LINE "A"



38+20 LINE "A"



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

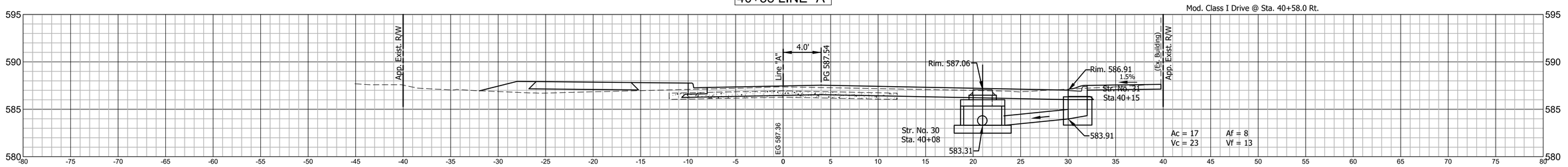
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

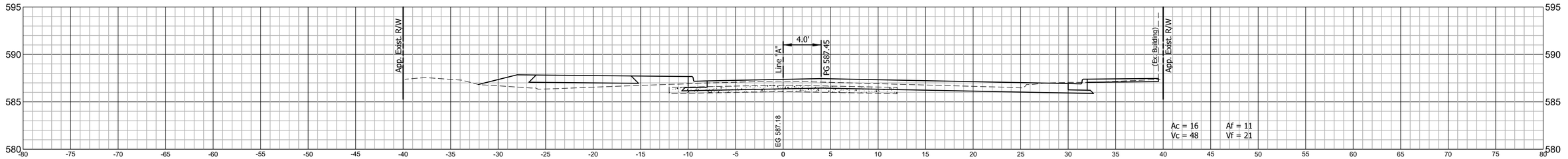
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	52 of XX
CONTRACT	PROJECT
R-44001	2101118

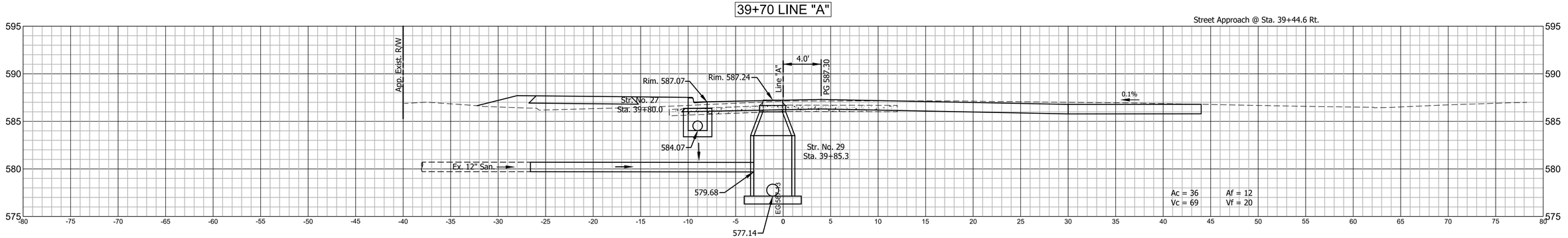
40+58 LINE "A"



40+20 LINE "A"



39+70 LINE "A"



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

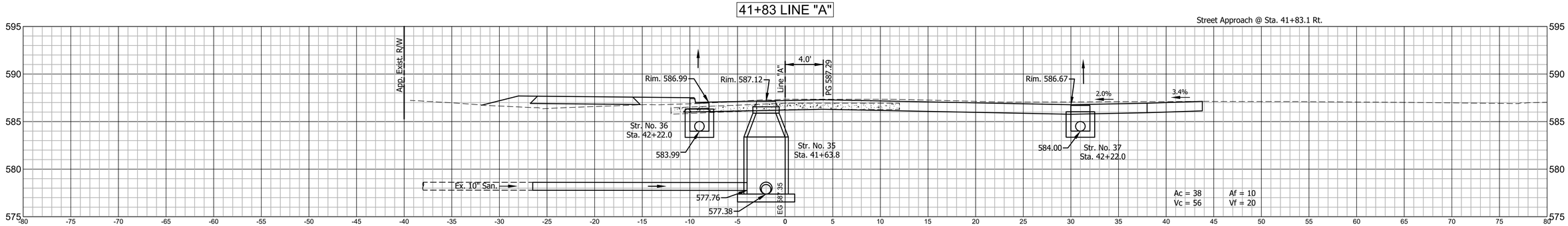
INDIANA DEPARTMENT OF TRANSPORTATION

LINE "A" CROSS SECTIONS

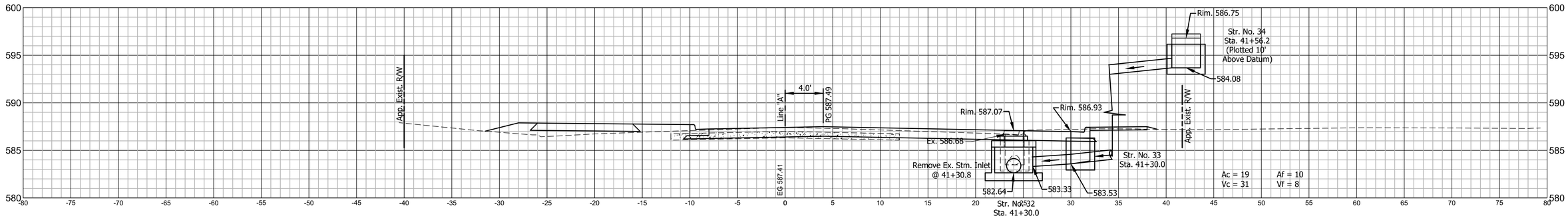
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	53 of XX
CONTRACT	PROJECT
R-44001	2101118

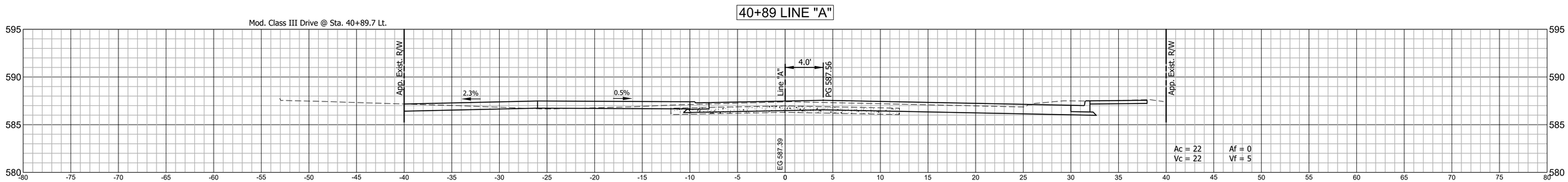
41+83 LINE "A"



41+30 LINE "A"



40+89 LINE "A"



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

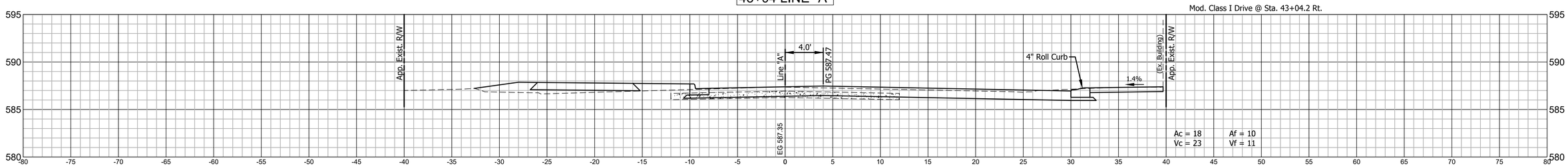
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

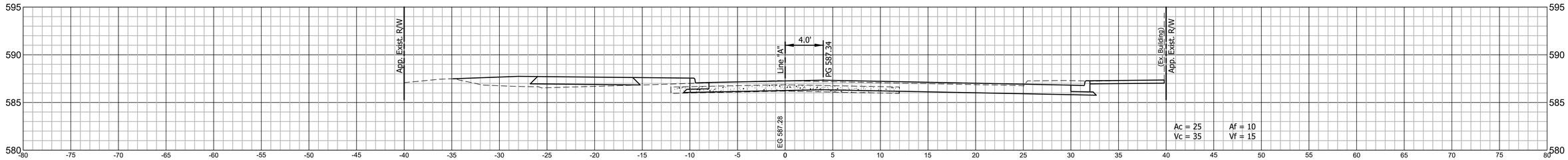
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	54 of XX
CONTRACT	PROJECT
R-44001	2101118

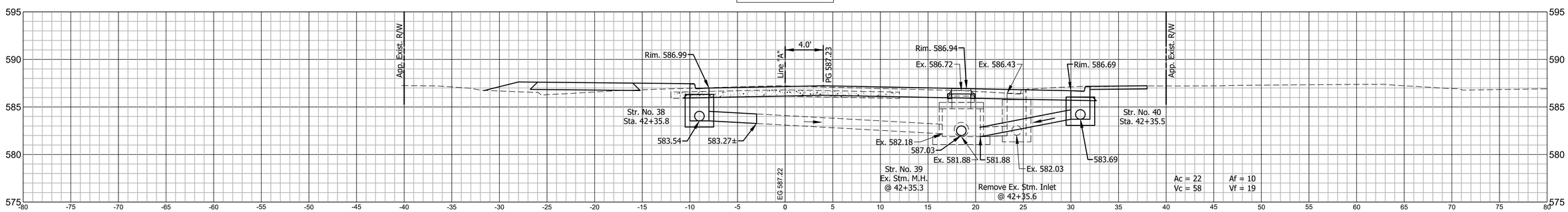
43+04 LINE "A"



42+75 LINE "A"



42+35 LINE "A"



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

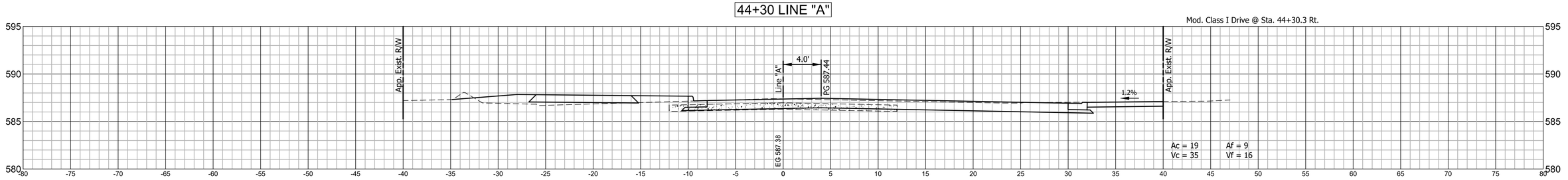
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

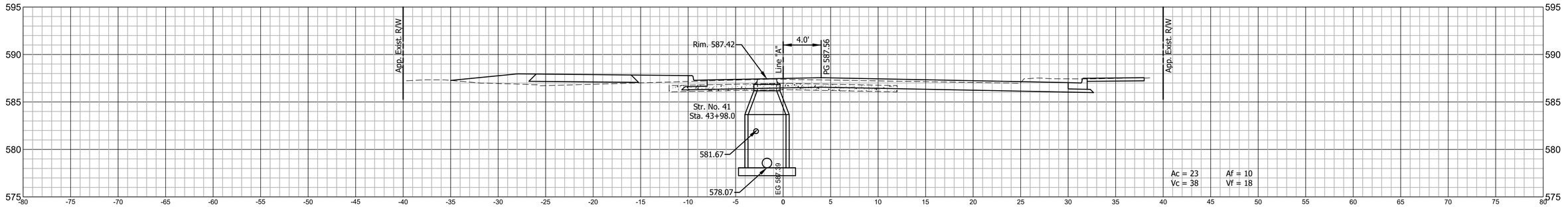
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	55 of XX
CONTRACT	PROJECT
R-44001	2101118

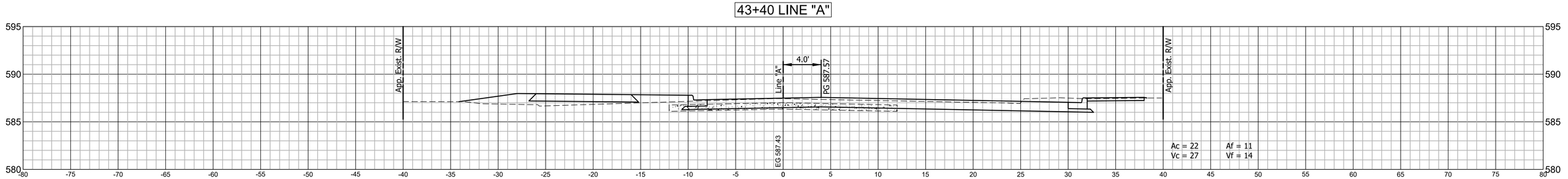
44+30 LINE "A"



43+85 LINE "A"



43+40 LINE "A"



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

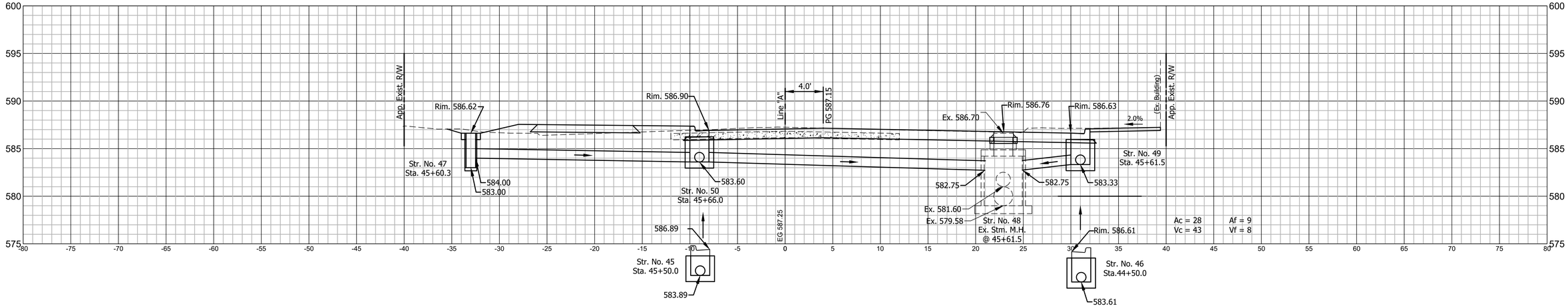
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

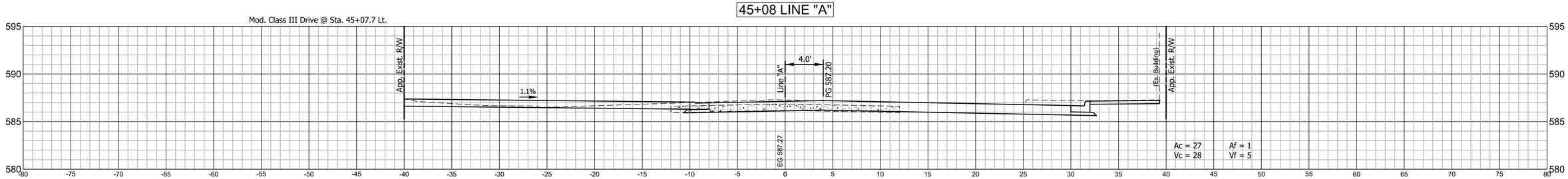
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	56 of XX
CONTRACT	PROJECT
R-44001	2101118

45+50 LINE "A"



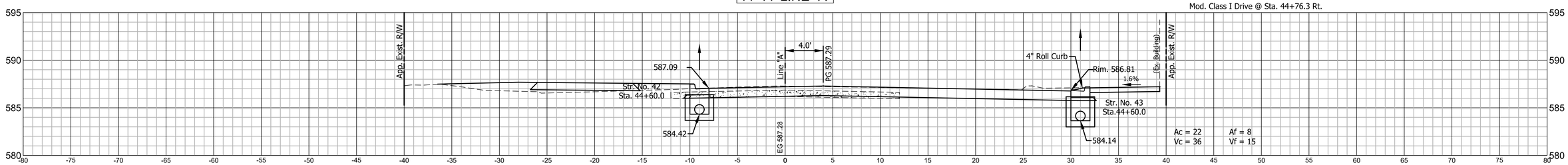
45+08 LINE "A"

Mod. Class III Drive @ Sta. 45+07.7 Lt.



44+77 LINE "A"

Mod. Class I Drive @ Sta. 44+76.3 Rt.



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

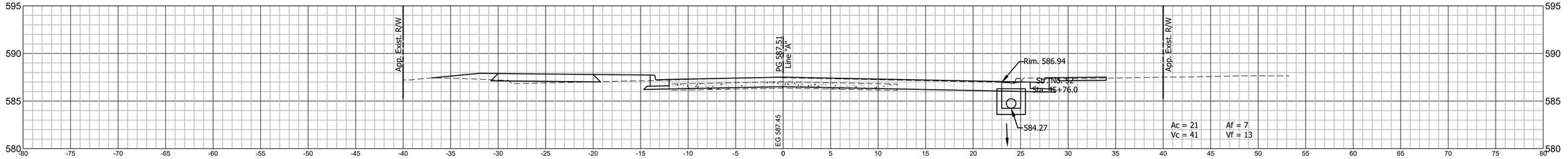
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

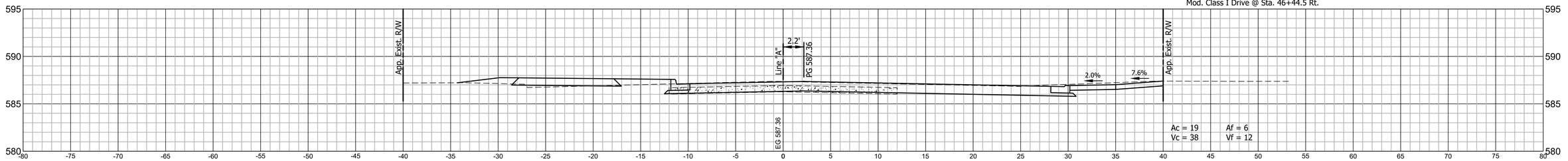
SURVEY BOOK	SHEETS
N/A	57 of XX
CONTRACT	PROJECT
R-44001	2101118

47+00 LINE "A"

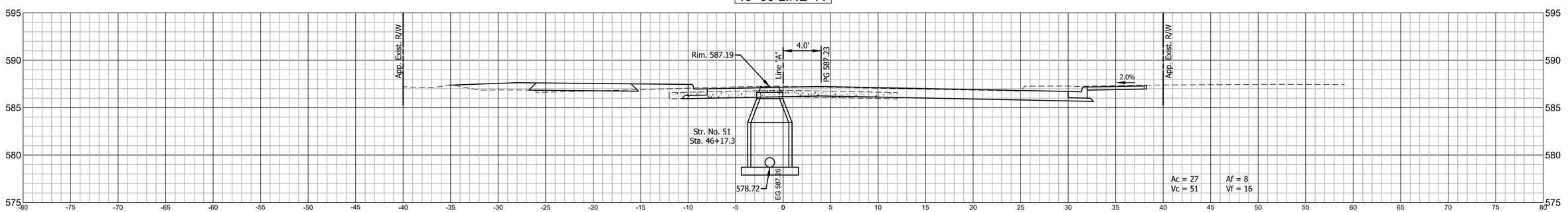


46+45 LINE "A"

Mod. Class I Drive @ Sta. 46+44.5 Rt.



46+00 LINE "A"



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

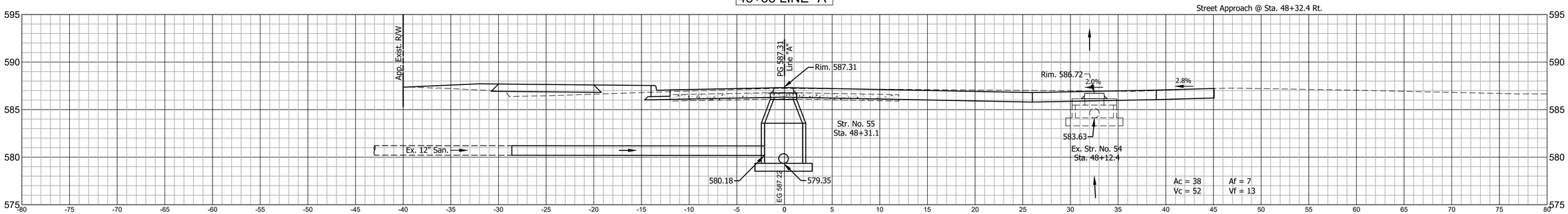
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

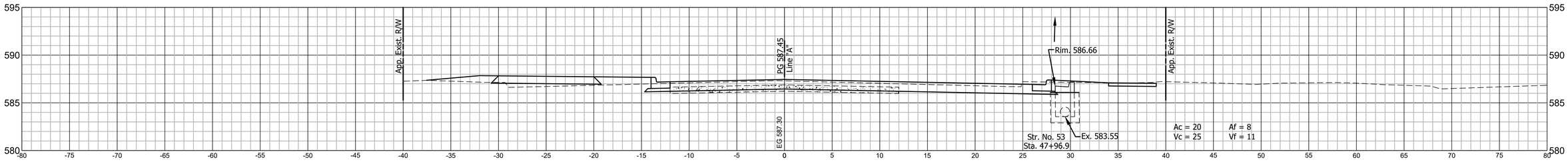
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	58 of XX
CONTRACT	PROJECT
R-44001	2101118

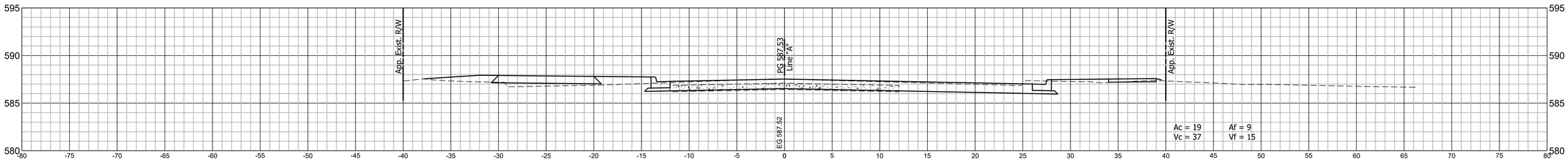
48+33 LINE "A"



47+85 LINE "A"



47+50 LINE "A"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

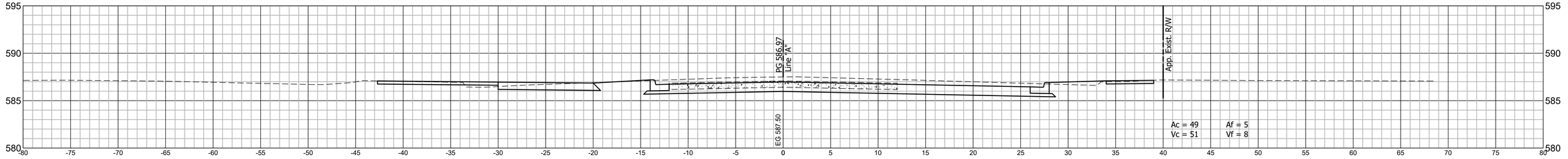
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

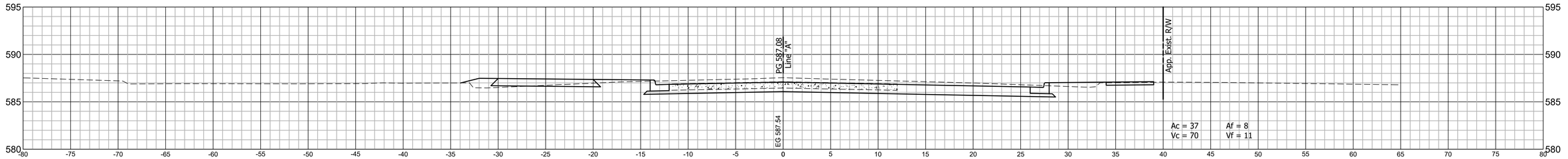
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	59 of XX
CONTRACT	PROJECT
R-44001	2101118

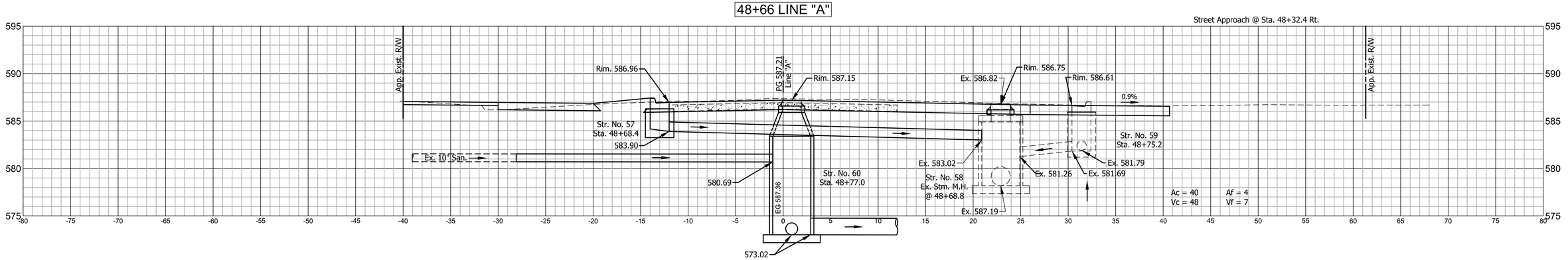
49+47 LINE "A"



49+15 LINE "A"



48+66 LINE "A"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

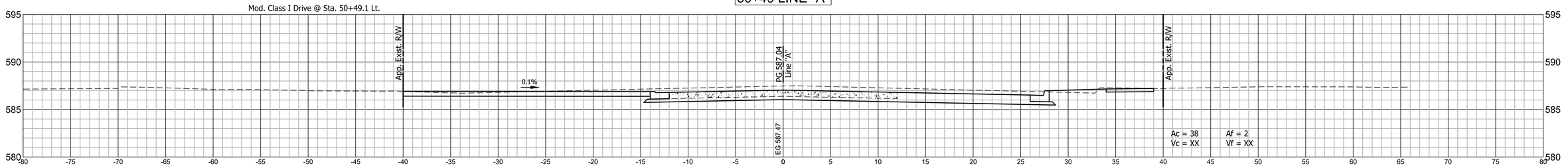
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

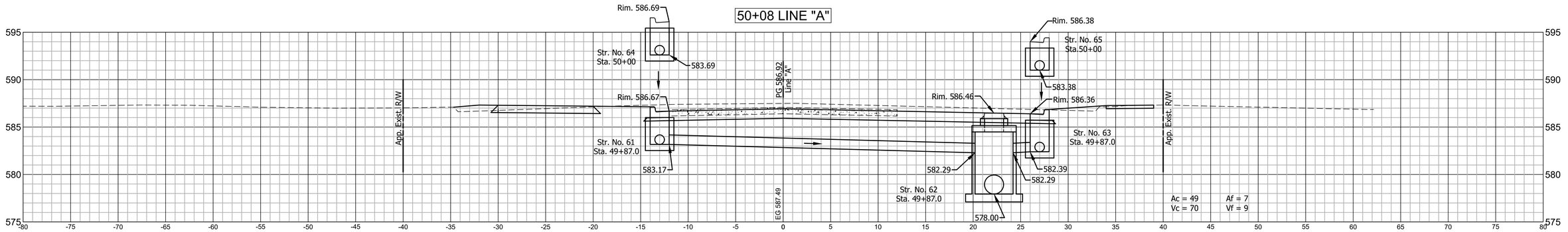
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	60 of XX
CONTRACT	PROJECT
R-44001	2101118

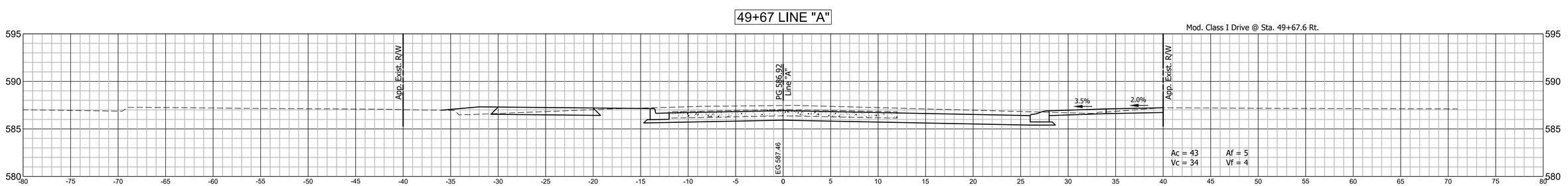
50+49 LINE "A"



50+08 LINE "A"



49+67 LINE "A"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

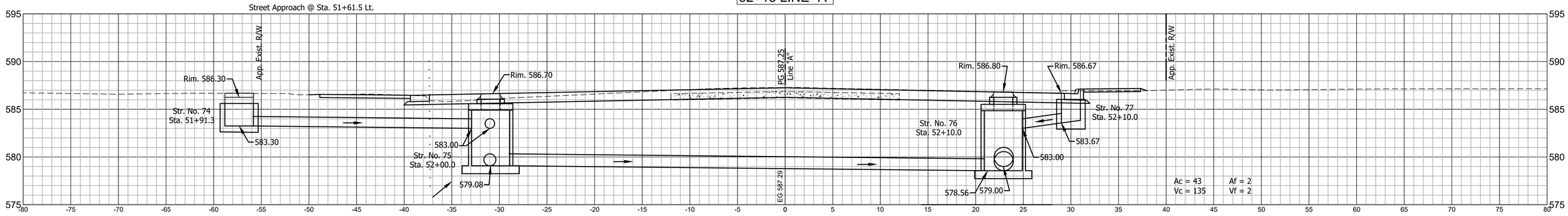
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

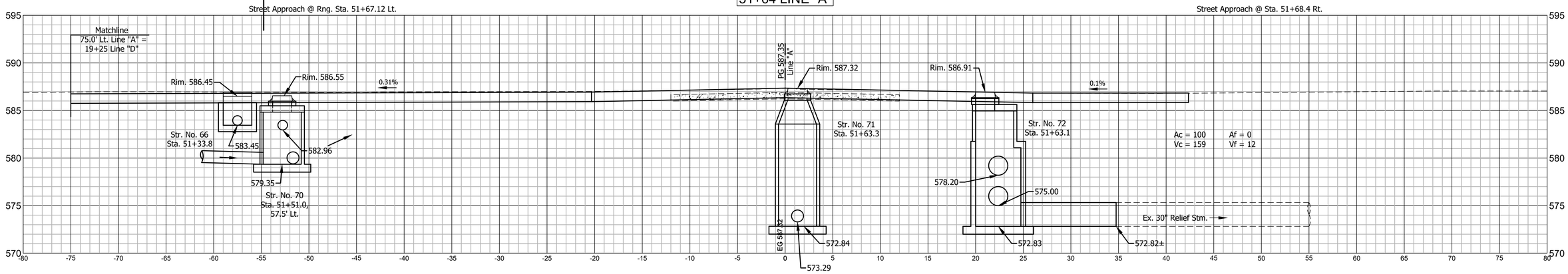
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	61 of XX
CONTRACT	PROJECT
R-44001	2101118

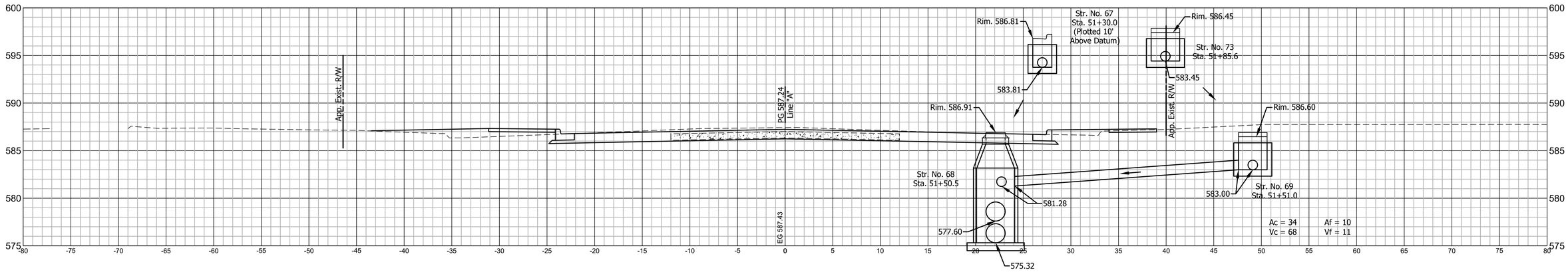
52+15 LINE "A"



51+64 LINE "A"



51+00 LINE "A"



RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

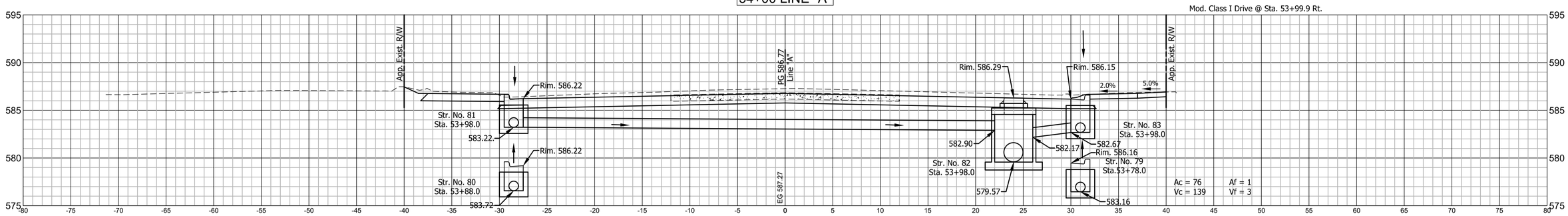
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

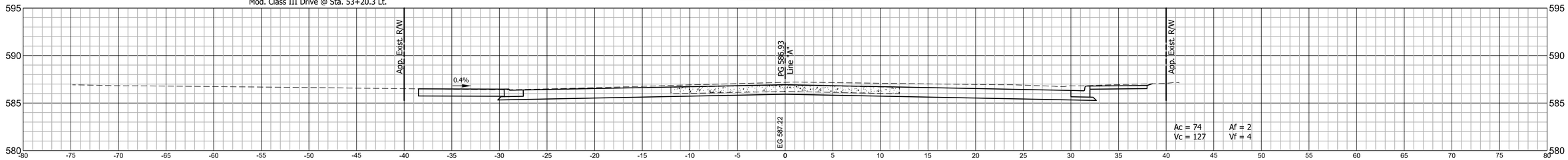
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	62 of XX
CONTRACT	PROJECT
R-44001	2101118

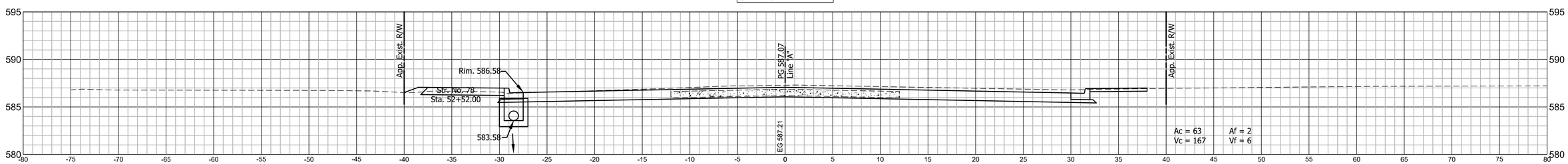
54+00 LINE "A"



53+20 LINE "A"



52+75 LINE "A"



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

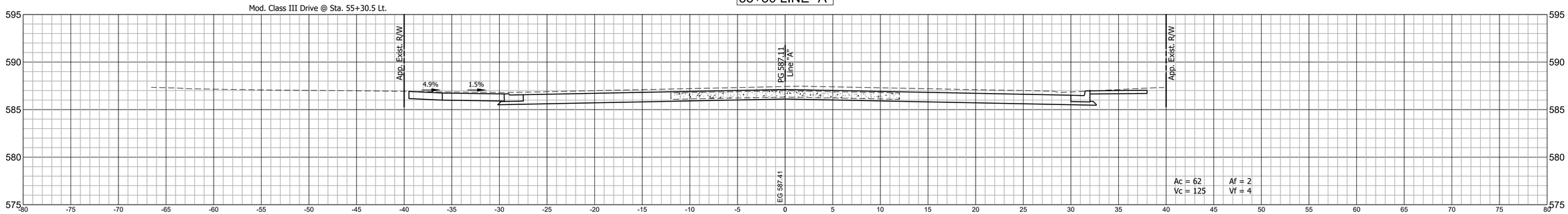
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

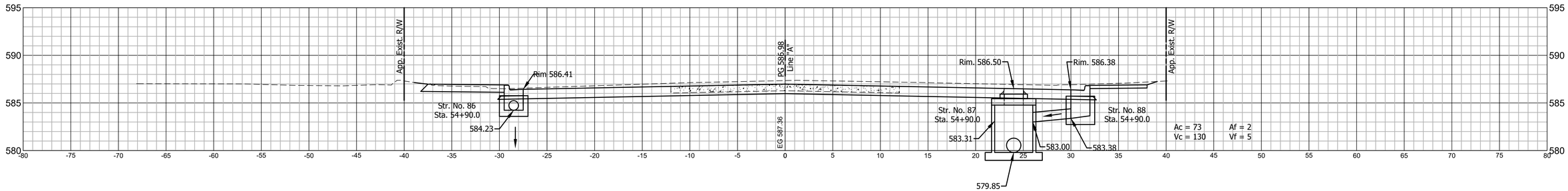
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS		
N/A	63	of	XX
CONTRACT	PROJECT		
R-44001	2101118		

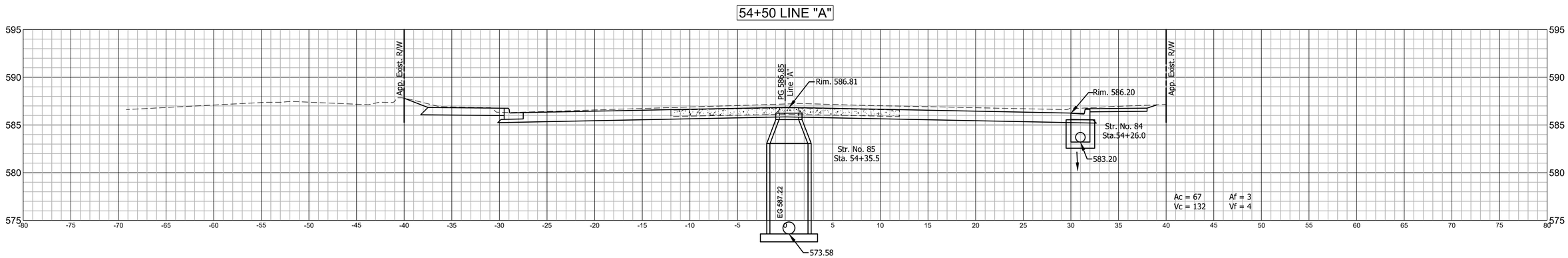
55+30 LINE "A"



54+90 LINE "A"



54+50 LINE "A"



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.

DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S.

CHECKED: S.H.S.

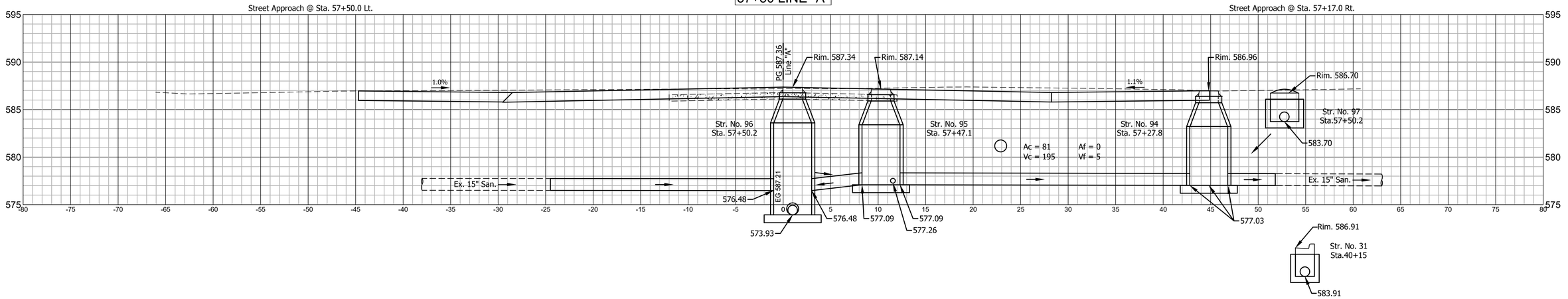
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

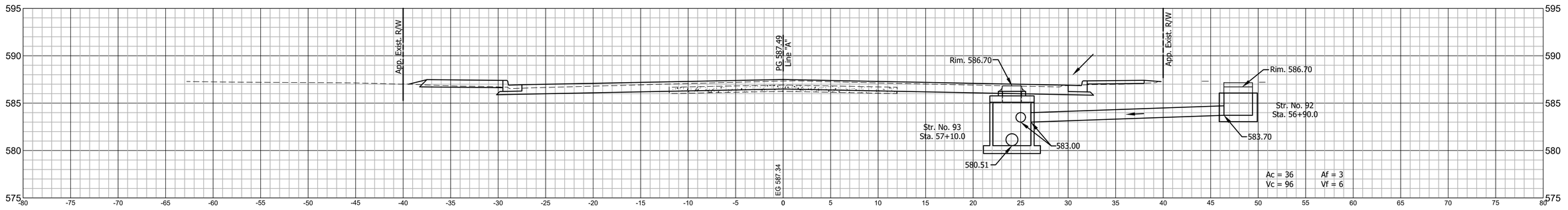
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	64 of XX
CONTRACT	PROJECT
R-44001	2101118

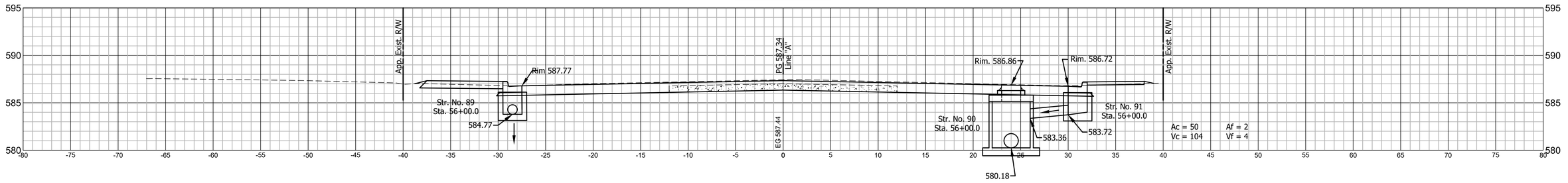
57+50 LINE "A"



56+60 LINE "A"



56+00 LINE "A"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

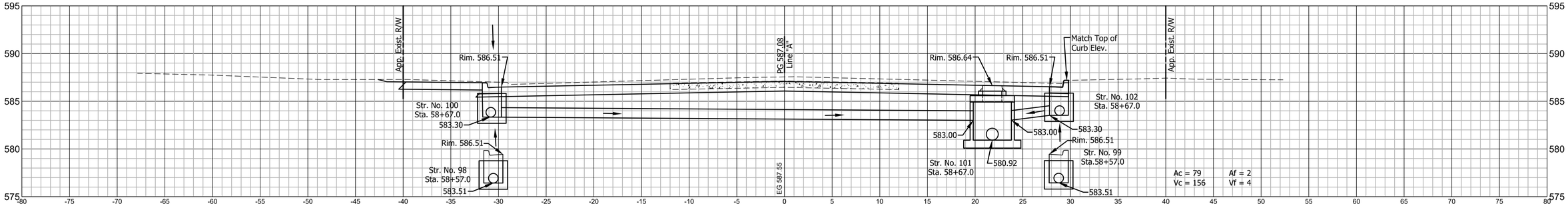
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

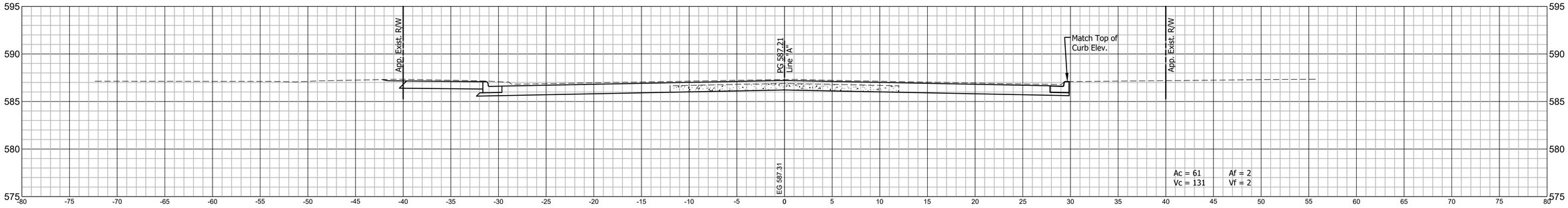
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	65 of XX
CONTRACT	PROJECT
R-44001	2101118

58+60 LINE "A"



58+00 LINE "A"



57+60 LINE "A"

RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

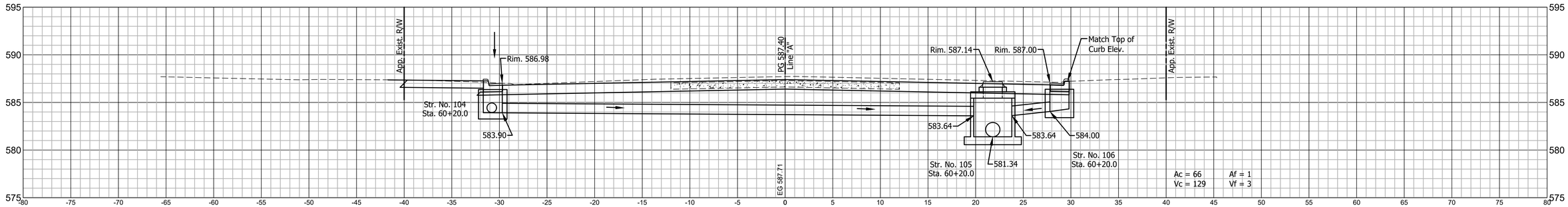
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

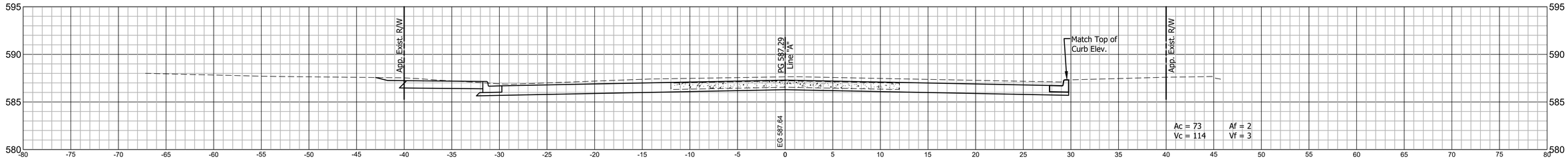
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	66 of XX
CONTRACT	PROJECT
R-44001	2101118

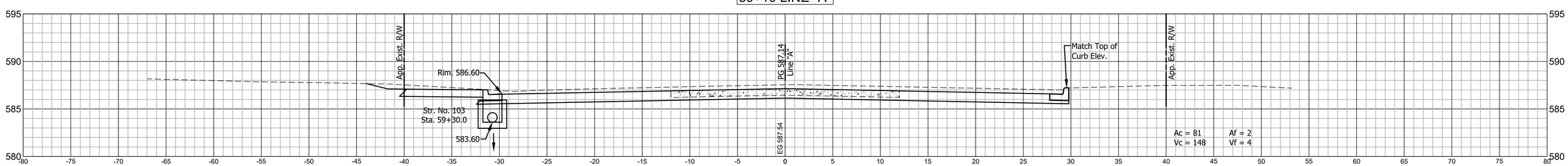
60+00 LINE "A"



59+50 LINE "A"



59+10 LINE "A"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

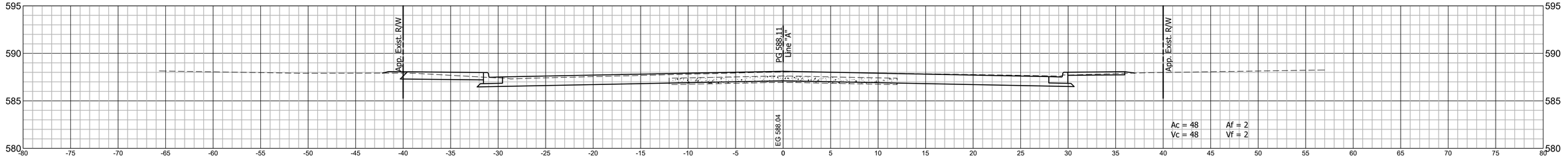
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

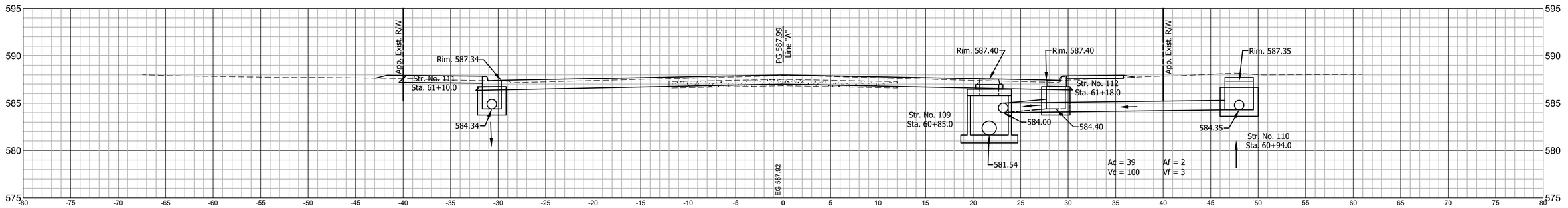
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	67 of XX
CONTRACT	PROJECT
R-44001	2101118

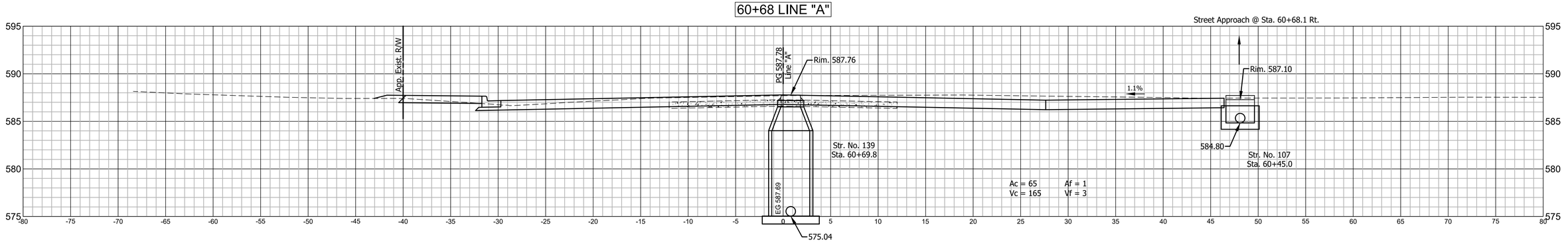
61+50 LINE "A"



61+20 LINE "A"



60+68 LINE "A"



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

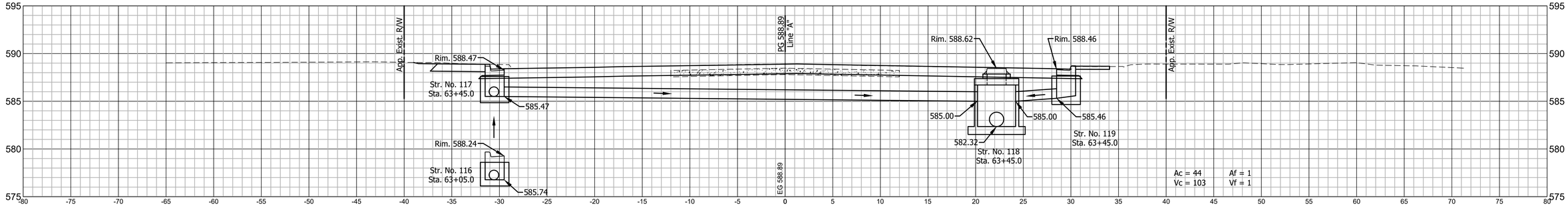
CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

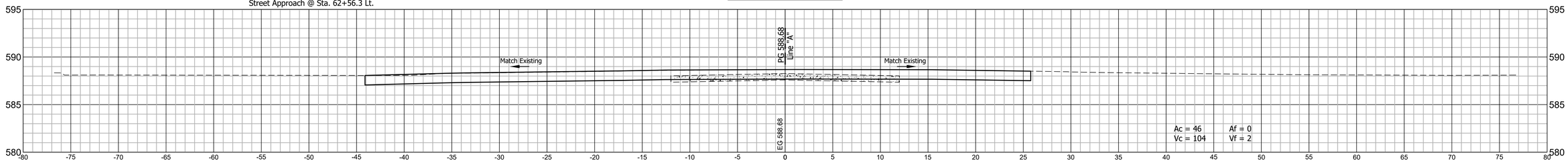
LINE "A"
CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118
SURVEY BOOK	SHEETS
N/A	68 of XX
CONTRACT	PROJECT
R-44001	2101118

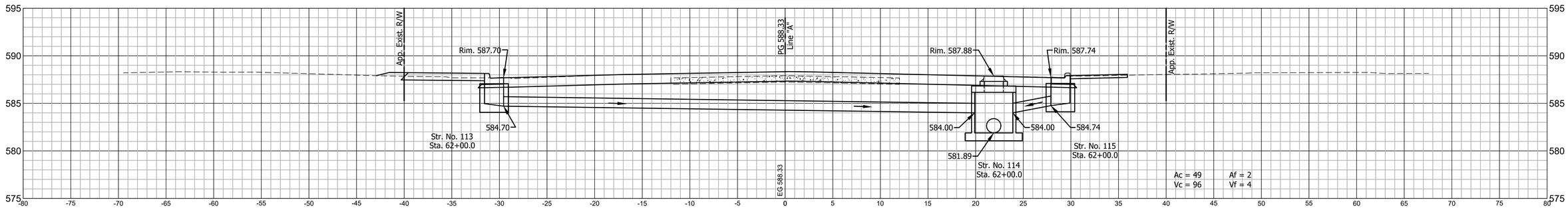
63+24.36 LINE "A"



62+62.50 LINE "A"



62+03.54 LINE "A"



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

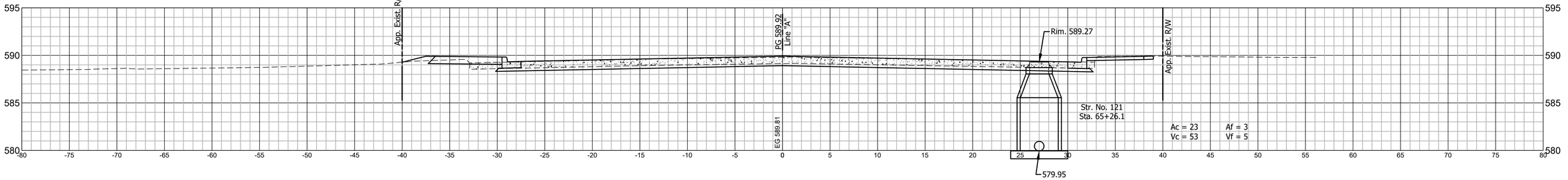
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

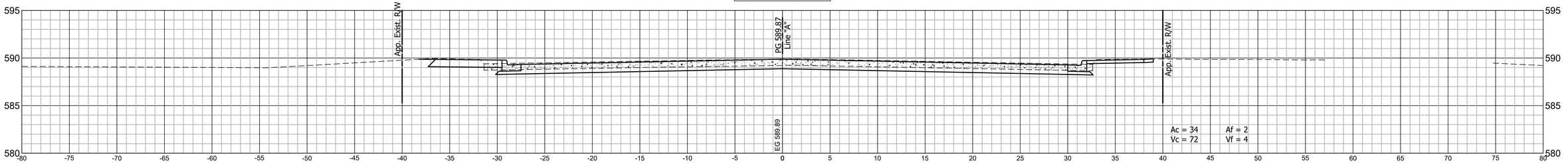
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	69 of XX
CONTRACT	PROJECT
R-44001	2101118

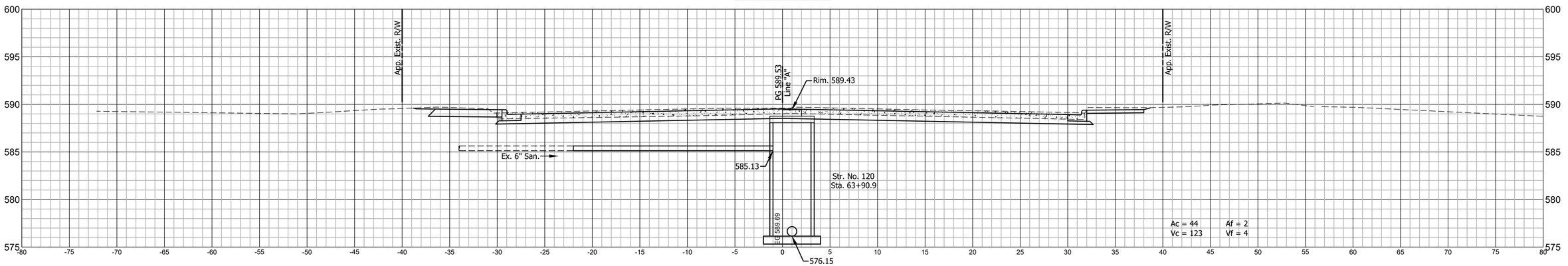
65+00 LINE "A"



64+50 LINE "A"



64+00 LINE "A"



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

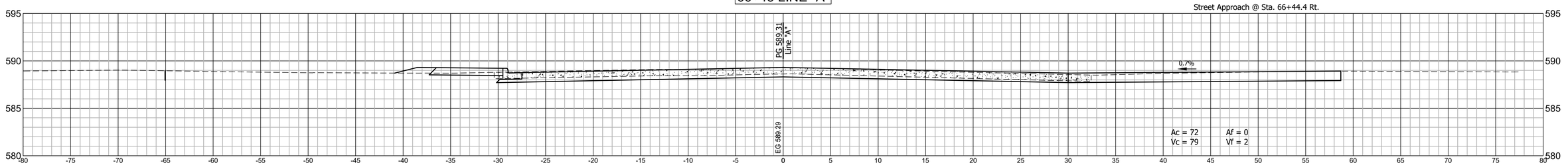
INDIANA DEPARTMENT OF TRANSPORTATION

LINE "A" CROSS SECTIONS

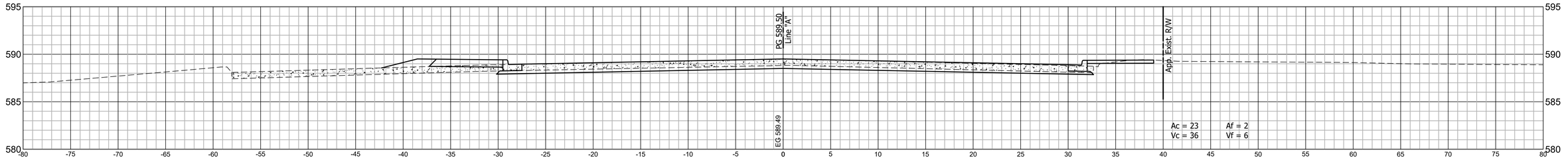
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	70 of XX
CONTRACT	PROJECT
R-44001	2101118

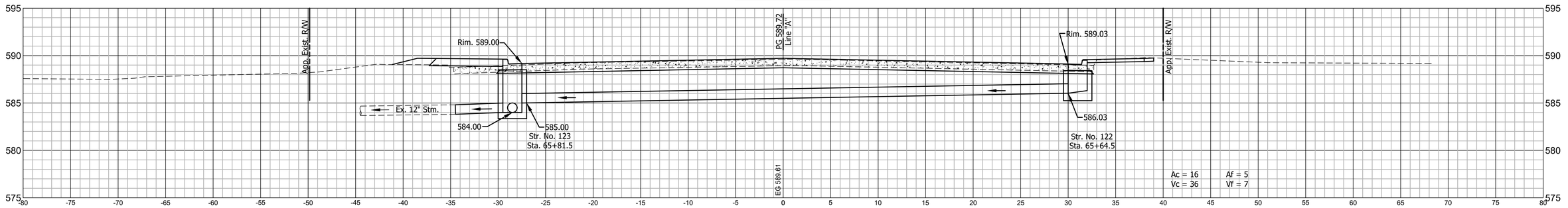
66+45 LINE "A"



66+00 LINE "A"



65+50 LINE "A"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

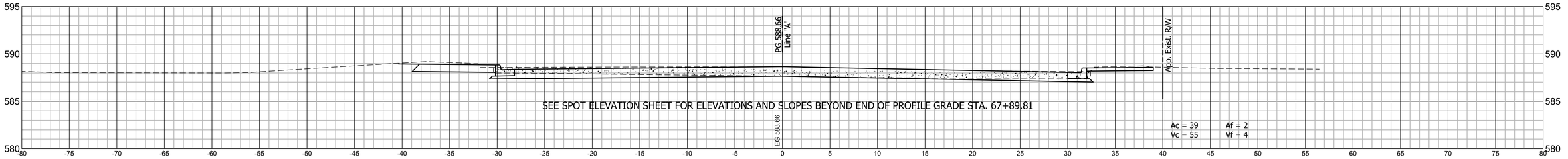
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

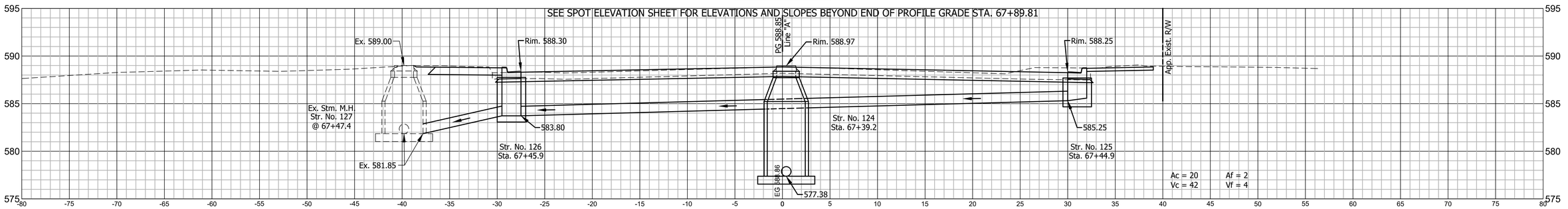
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	71 of XX
CONTRACT	PROJECT
R-44001	2101118

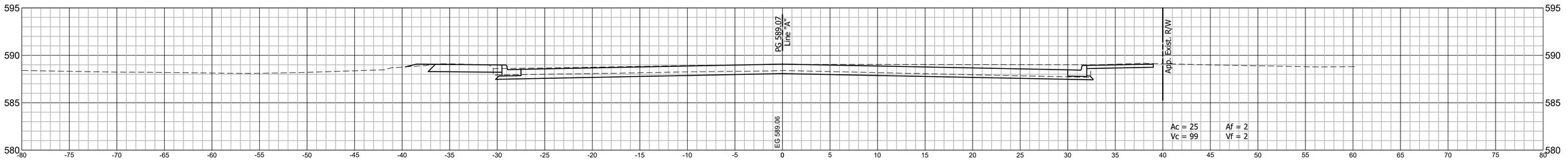
68+00 LINE "A"



67+50 LINE "A"



67+00 LINE "A"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

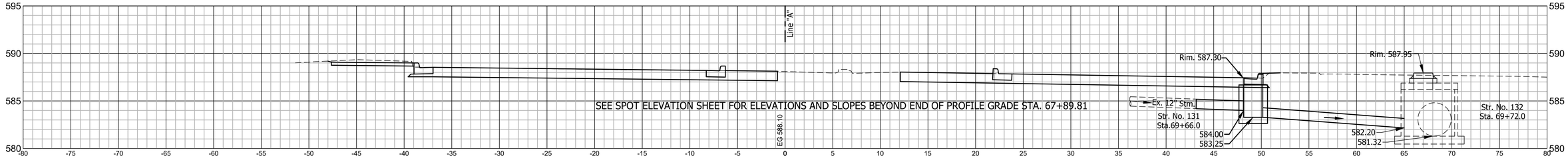
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

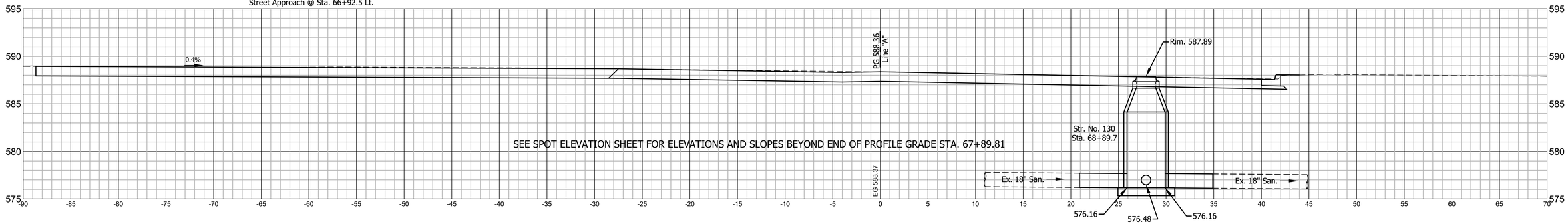
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	72 of XX
CONTRACT	PROJECT
R-44001	2101118

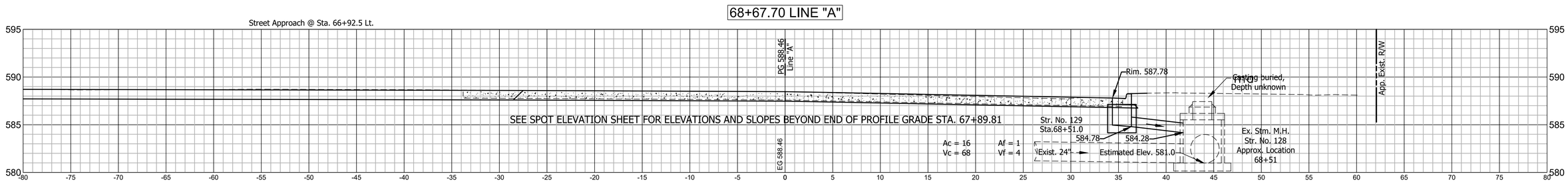
69+50 LINE "A"



69+00 LINE "A"



68+67.70 LINE "A"



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

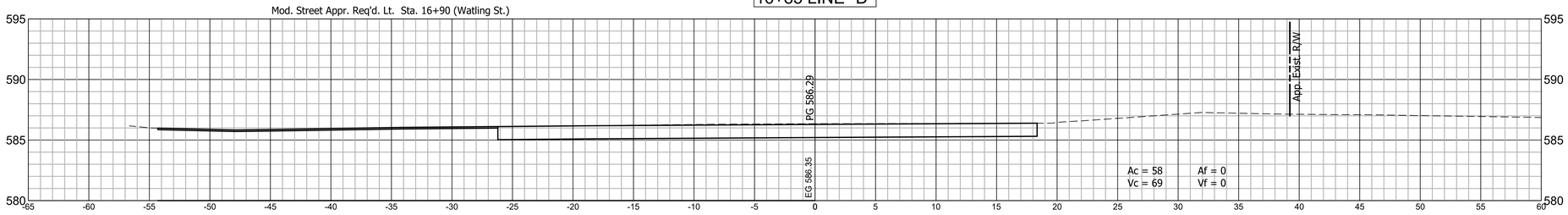
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "A"
CROSS SECTIONS

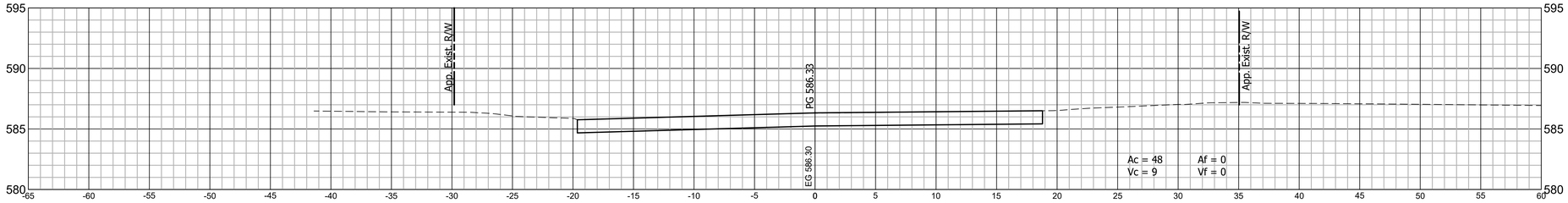
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS		
N/A	73	of	XX
CONTRACT	PROJECT		
R-44001	2101118		

16+85 LINE "D"

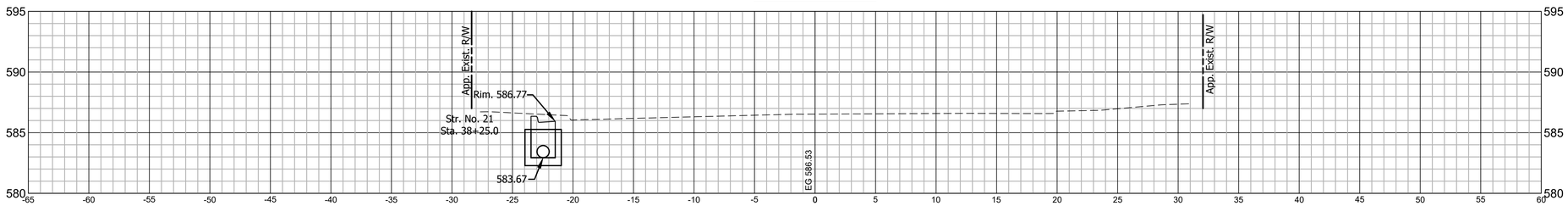


16+50 LINE "D"



Begin Earthwork 16+45 "D"
Ac = 46 Af = 0

16+25 LINE "D"



Rim. 587.07

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

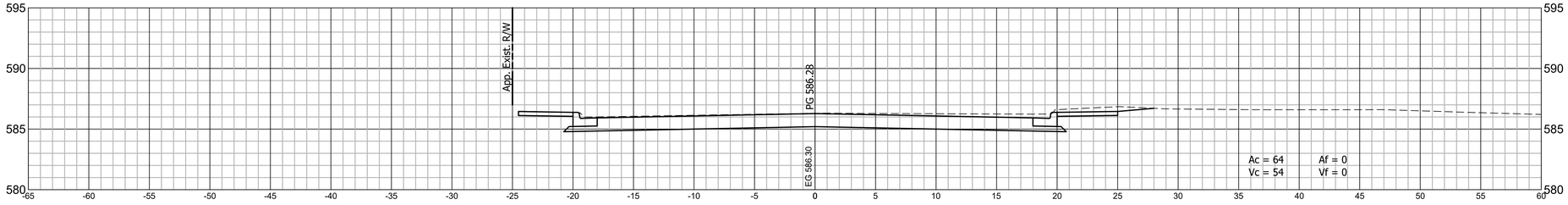
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "D"
CROSS SECTIONS

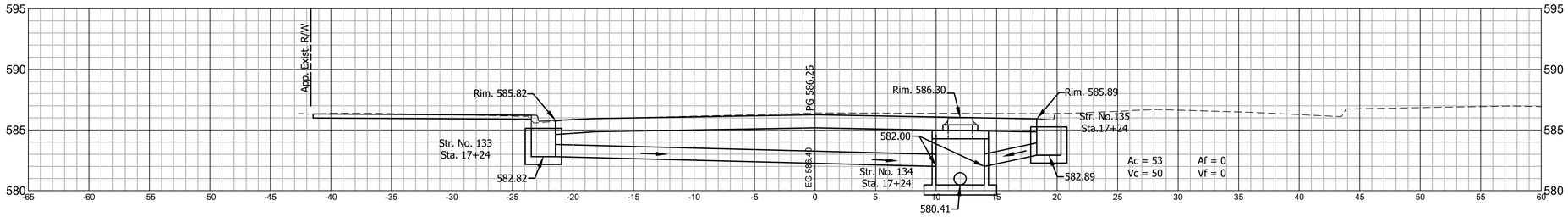
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	74 of XX
CONTRACT	PROJECT
R-44001	2101118

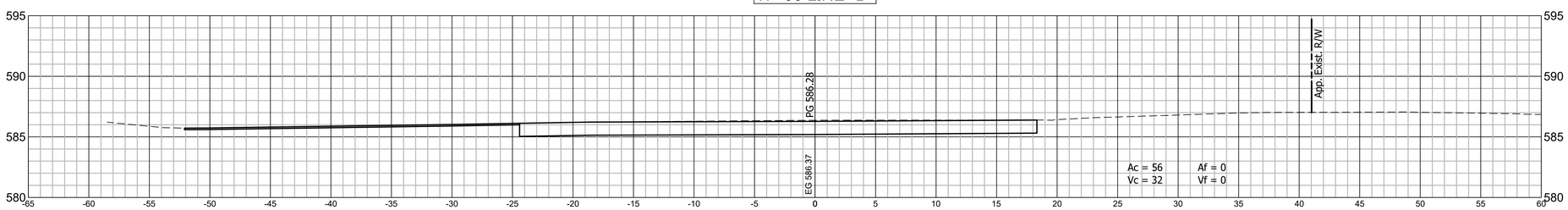
17+50 LINE "D"



17+25 LINE "D"



17+00 LINE "D"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

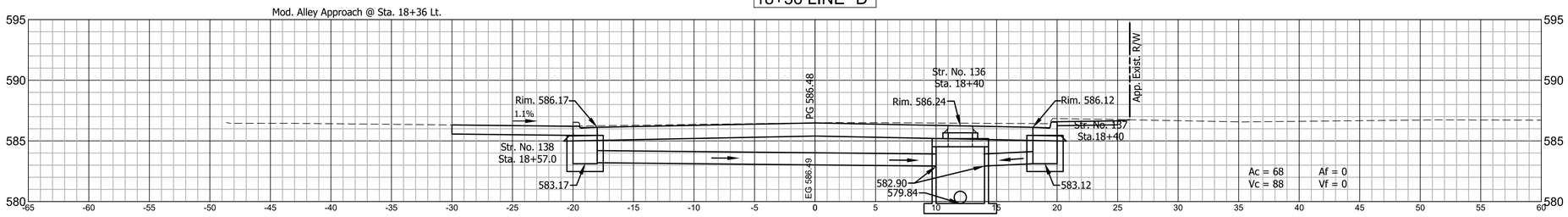
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "D"
CROSS SECTIONS

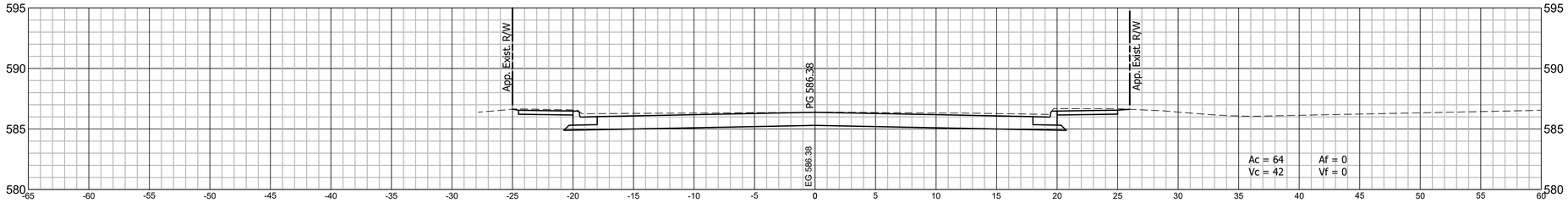
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	75 of XX
CONTRACT	PROJECT
R-44001	2101118

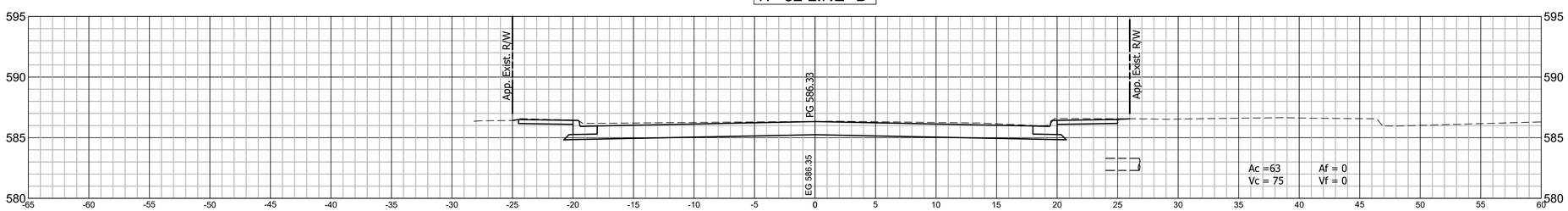
18+36 LINE "D"



18+00 LINE "D"



17+82 LINE "D"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S. DRAWN: B.M.S./C.E.S.

CHECKED: B.M.S./C.E.S. CHECKED: S.H.S.

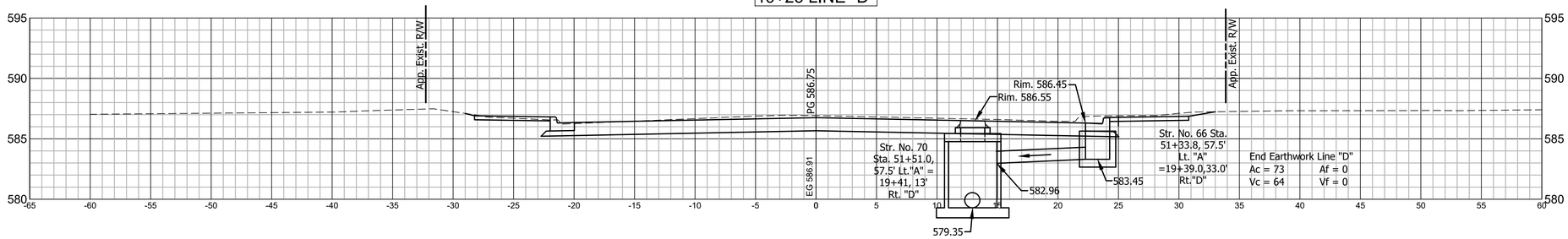
INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "D"
CROSS SECTIONS

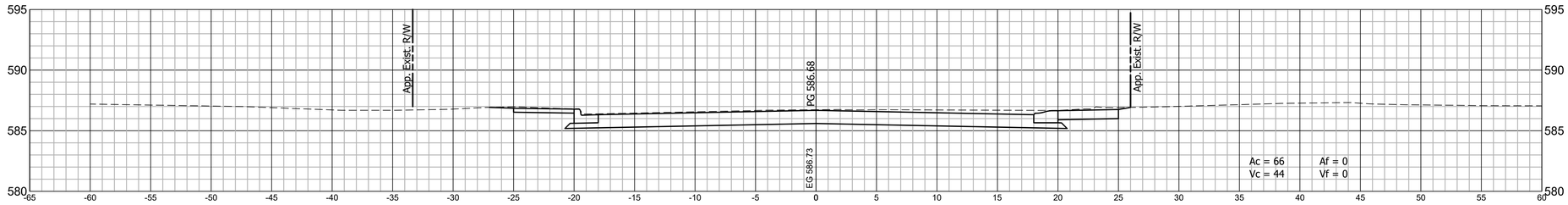
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	76 of XX
CONTRACT	PROJECT
R-44001	2101118

19+25 LINE "D"

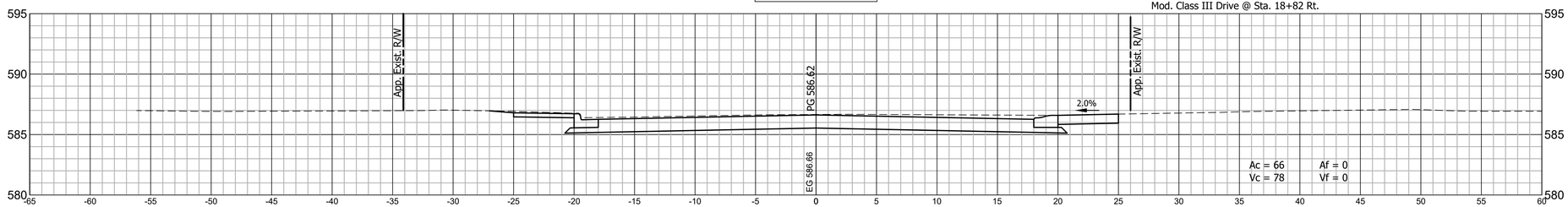


19+00 LINE "D"

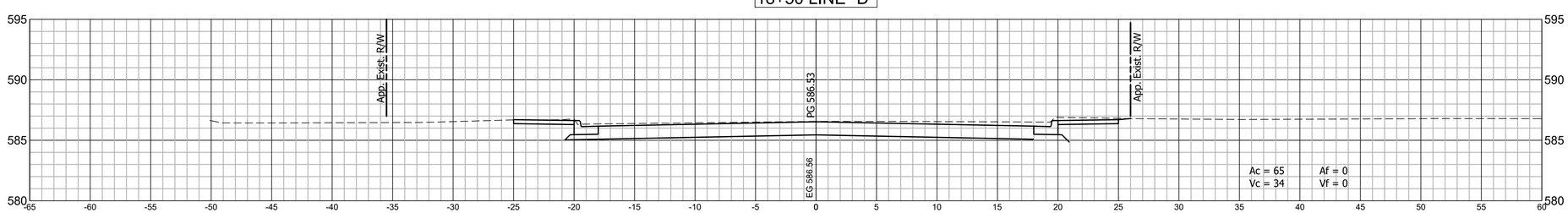


18+82 LINE "D"

Mod. Class III Drive @ Sta. 18+82 Rt.



18+50 LINE "D"



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: B.M.S./C.E.S.
DRAWN: B.M.S./C.E.S.
CHECKED: B.M.S./C.E.S.
CHECKED: S.H.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

LINE "D"
CROSS SECTIONS

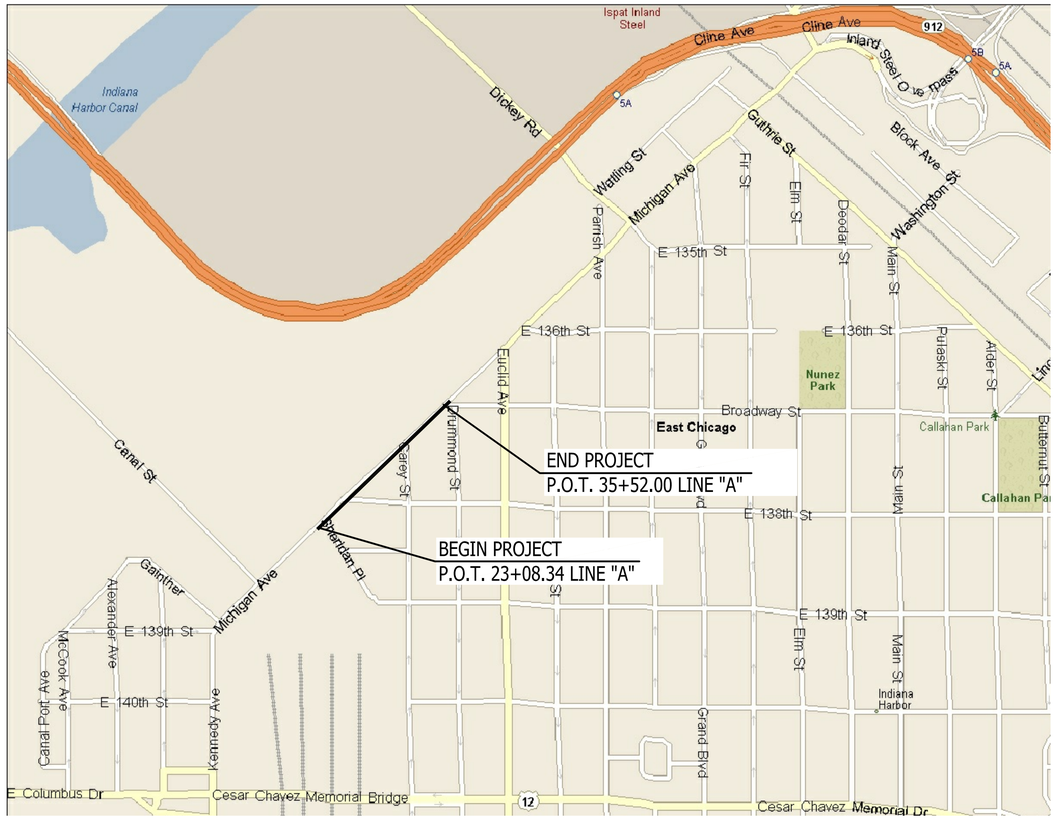
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101118

SURVEY BOOK	SHEETS
N/A	77 of XX
CONTRACT	PROJECT
R-44001	2101118

INDIANA
CITY OF EAST CHICAGO

MICHIGAN AVENUE PHASE 2 RECONSTRUCTION PROJECT

PROJECT LOCATION SHOWN BY



SCALE: 1"=500'

CITY OF EAST CHICAGO
SEC. 21 & 22, T37N, R9W
NORTH TOWNSHIP
LAKE COUNTY, INDIANA

CITY OF EAST CHICAGO
BOARD OF PUBLIC WORKS

Valeriano Gomez, President

William Allen, Vice President

Winna Guzman, Member

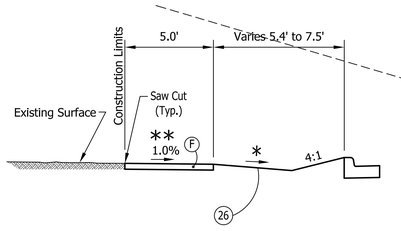
THESE PLANS PREPARED BY:

First Group ENGINEERING, INC.

5925 Lakeside Blvd.
Indianapolis, Indiana 46278
(317) 290-9549

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2023 AND THE CITY OF EAST CHICAGO STANDARDS TO BE USED WITH THESE PLANS

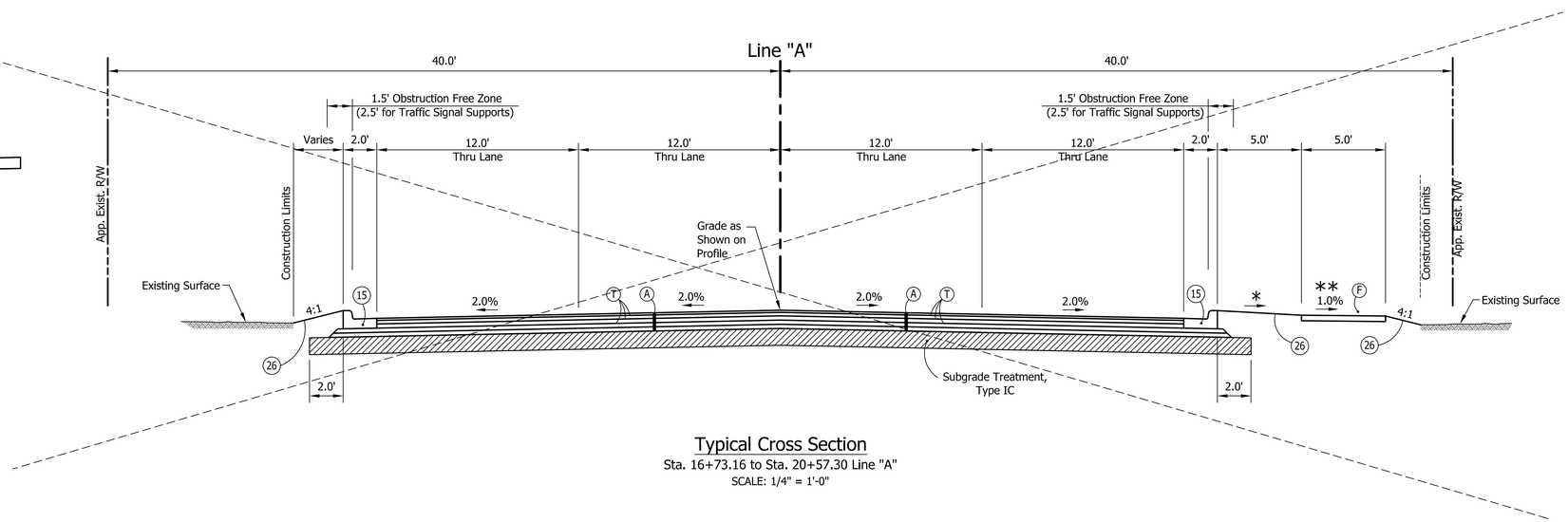
PLANS PREPARED BY:	FIRST GROUP ENGINEERING, INC.	(317) 290-9549 PHONE NUMBER	DESIGNATION
CERTIFIED BY:		DATE	SHEETS: 1 of XXX
APPROVED FOR LETTING:			CONTRACT: 17-0066
			PROJECT: MICHIGAN AVE. - EAST CHICAGO



Alternate Sidewalk Section

Sta. 16+73.16 to Sta. 18+54.44 Lt. Line "A"

SCALE: 1/4" = 1'-0"



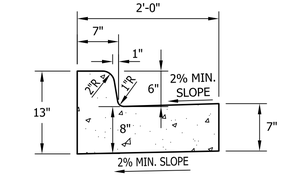
Typical Cross Section

Sta. 16+73.16 to Sta. 20+57.30 Line "A"

SCALE: 1/4" = 1'-0"

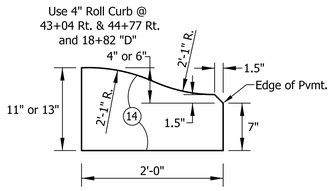
* Slope Varies, 6:1 Max.

** Slope Varies, Slope 1.0% Unless Shown Otherwise on Cross Sections (2.0% Max.)



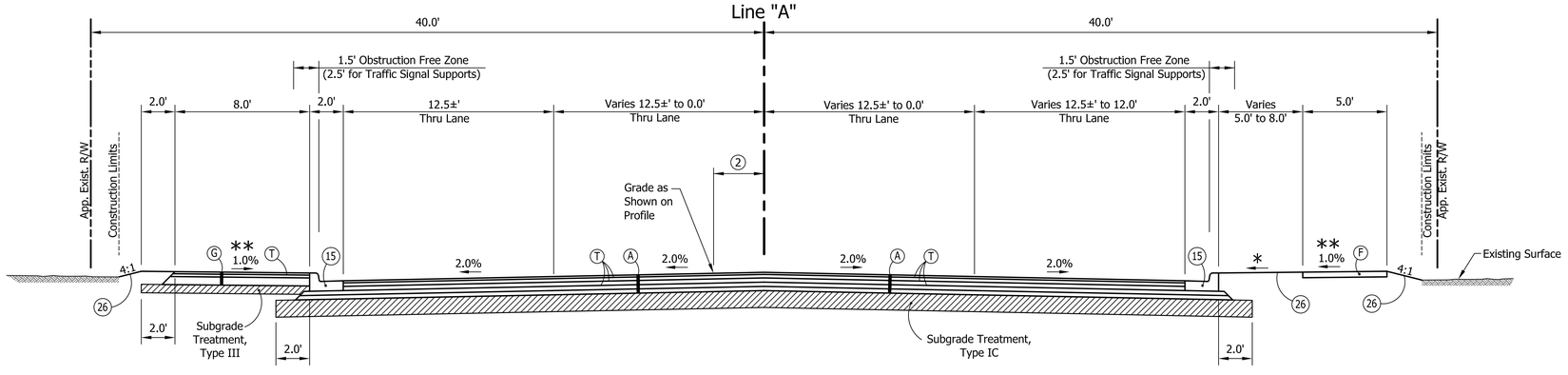
Combined Concrete Curb & Gutter

SCALE: 1" = 1'



Roll Curb, Concrete Detail

SCALE: 1" = 1'



Typical Cross Section

Sta. 23+08.34 to Sta. 26+00.00 Line "A"

SCALE: 1/4" = 1'-0"

② Profile Grade

Varies 0.0' to 3.0' Lt. From Station 25+00.00 to 26+00.00

Legend

- (A) 165 #/syd. Hma Surface Type D, 9.5 mm On 275 #/syd. Hma Intermediate Type D, 19.0mm On 660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On 3" Compacted Aggregate No. 53, On Subgrade Treatment Type IC
- (A1) 165 #/syd. Hma Surface Type D-SMA, 9.5 mm On 275 #/syd. Hma Intermediate Type D, 19.0mm On 660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On 3" Compacted Aggregate No. 53, On Subgrade Treatment Type IC
- (C1) Conc. Pvmt. For Driveways, 6", On Subgrade Treatment Type II
- (C2) Conc. Pvmt. For Driveways, 8", On Subgrade Treatment Type II
- (CR) Curb Ramp, Concrete
- (F) Sidewalk, Concrete
- (FT) Sidewalk Elevation Transition
- (G) HMA Sidewalks: 140 #/syd. Hma Surface Type B On 220 #/syd. Hma Intermediate Type B On 6" Compacted Aggregate No. 53 Subgrade Treatment Type III
- (GT) HMA Elevation Transition
- (H) HMA for Median: 140 #/syd. Hma Surface Type B On 220 #/syd. Hma Intermediate Type B On 6" Compacted Aggregate No. 53
- (R) Milling, Asphalt 1 1/2" with 165 #/syd. Hma Surface Type B, 9.5 mm
- (T) Asphalt Material For Tack Coat
- (14) Concrete Roll Curb
- (15) Combined Concrete Curb And Gutter
- (26) Sodding (Nursery) W/topsoil (4" As Required Under Sodding)

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

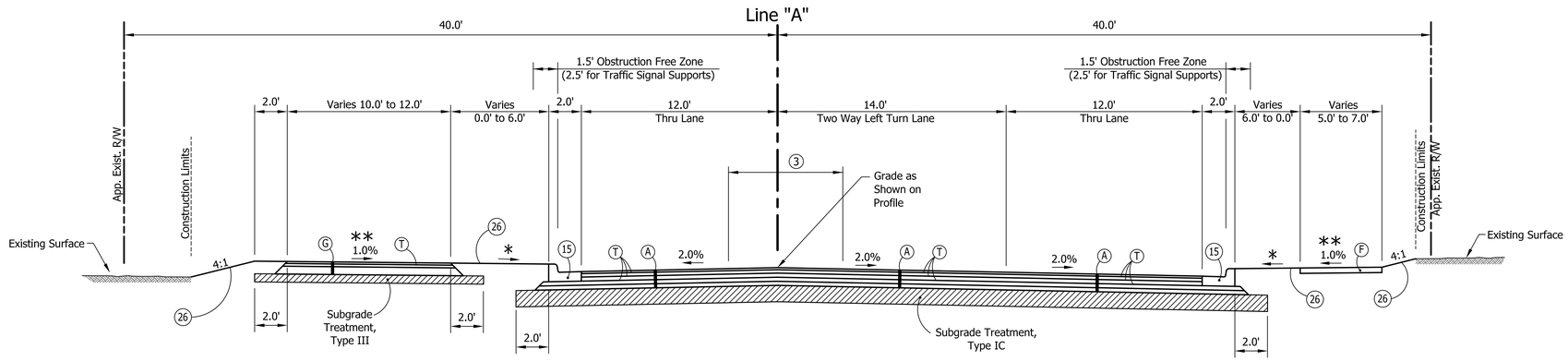
DESIGNED: C.E.S./B.M.S. DRAWN: C.E.S./B.M.S.

CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

CITY OF EAST CHICAGO
DEPARTMENT OF PUBLIC WORKS

MICHIGAN AVENUE
TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	4 of XXX
CONTRACT	PROJECT
17-0066	MICHIGAN AVE. - EAST CHICAGO



Typical Cross Section

Sta. 26+00.00 to Sta. 27+90.00 Line "A"

SCALE: 1/4" = 1'-0"

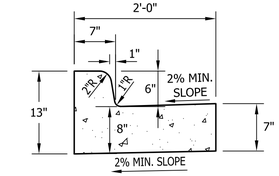
∗ Slope Varies, 6:1 Max.

∗∗ Slope Varies, Slope 1.0% Unless Shown Otherwise on Cross Sections (2.0% Max.)

③ Profile Grade

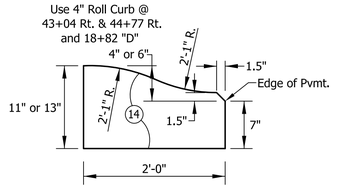
3.0' Lt. From Station 26+00.00 to 26+50.00

Varies 3.0' Lt. to 4.0' Rt. From Station 26+50.00 to 27+90.00



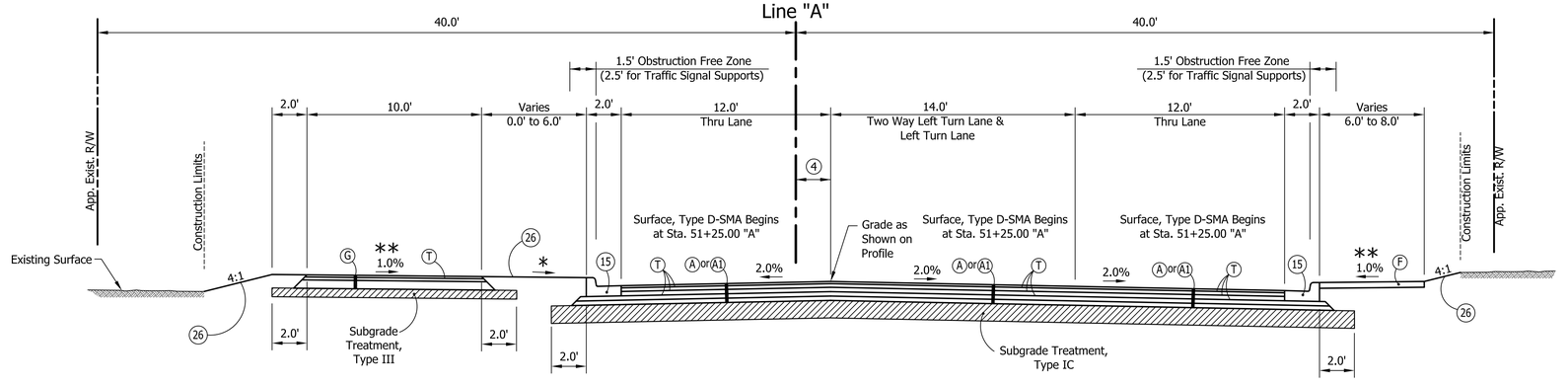
Combined Concrete Curb & Gutter

SCALE: 1" = 1'



Roll Curb, Concrete Detail

SCALE: 1" = 1'



Typical Cross Section

Sta. 27+90.00 to Sta. 35+52.00 Line "A"

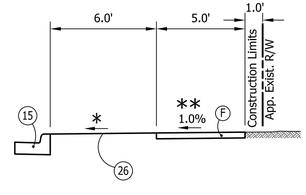
SCALE: 1/4" = 1'-0"

④ Profile Grade

4.0' Rt. From Station 27+90.00 to 46+00.00

Varies 4.0' Rt. to 0.0' From Station 46+00.00 to 47+00.00

Line "A" From Station 47+00.00 to 51+50.00



Alternate Sidewalk Section

Sta. 47+00.00 to Sta. 51+50.00 Rt. Line "A"

SCALE: 1/4" = 1'-0"

Legend

- (A) 165 #/syd. Hma Surface Type D, 9.5 mm On 275 #/syd. Hma Intermediate Type D, 19.0mm On 660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On 3" Compacted Aggregate No. 53, On Subgrade Treatment Type IC
- (A1) 165 #/syd. Hma Surface Type D-SMA, 9.5 mm On 275 #/syd. Hma Intermediate Type D, 19.0mm On 660 #/syd. Hma Base Type D, 25.0mm (2-Lifts) On 3" Compacted Aggregate No. 53, On Subgrade Treatment Type IC
- (C1) Conc. Pvmt. For Driveways, 6", On Subgrade Treatment Type II
- (C2) Conc. Pvmt. For Driveways, 8", On Subgrade Treatment Type II
- (CR) Curb Ramp, Concrete
- (F) Sidewalk, Concrete
- (FT) Sidewalk Elevation Transition
- (G) HMA Sidewalks: 140 #/syd. Hma Surface Type B On 220 #/syd. Hma Intermediate Type B On 6" Compacted Aggregate No. 53 Subgrade Treatment Type III
- (GT) HMA Elevation Transition
- (H) HMA for Median: 140 #/syd. Hma Surface Type B On 220 #/syd. Hma Intermediate Type B On 6" Compacted Aggregate No. 53
- (R) Milling, Asphalt 1 1/2" with 165 #/syd. Hma Surface Type D-SMA, 9.5 mm
- (T) Asphalt Material For Tack Coat
- (14) Concrete Roll Curb
- (15) Combined Concrete Curb And Gutter
- (26) Sodding (Nursery) W/topsoil (4" As Required Under Sodding)

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: C.E.S./B.M.S. DRAWN: C.E.S./B.M.S.

CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

CITY OF EAST CHICAGO
DEPARTMENT OF PUBLIC WORKS

MICHIGAN AVENUE
TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	5 of XXX
CONTRACT	PROJECT
17-0066	MICHIGAN AVE. - EAST CHICAGO

21 | 22 | 23 | 24 | 25 | 26 | 27

Street Appr. Req'd. Rt. Sta. 23+22.6, W = 33.5'

Street Appr. Req'd. Rt. Sta. 25+41.0, W = 51.7'

21+24,49.6' Pwp. (104580)
21+37.3,60.5' Gy. W.
22+62.7,34.2' R.R. Gate w/Finisher
23+10.6,14.6' W.V.
23+33.8,2.3' Sanitary M.H. (Buried)
23+44.4,13.6' W.V.
23+50.1,11' Water Valve M.H.
23+51.2,20.7' Water Valve M.H.
23+55.1,13.5' W.V.
23+70.4,1.3' Sanitary M.H.
23+75.9,39.7' H.H. (Signal)
23+79.7,21.1' Telephone M.H.
23+82.6,39.9' Fence Cor.
23+83.38.2' Elm 15 IN
23+92.2,38.1' Pwp. (No No.)
23+97.2,56.8' End Fence
24+00.8,32.1' Sign (R.R. Crossing)
24+27.24.5' Inlet (B-15)
24+33.5,30.3' F.Hyd.
24+42.5,26.6' Sli. Post
24+70.1,38.9' Gy. W.
24+75.2,32.3' Pwp. (71-307)
24+76.2,38.4' Gy. W.
24+81.7,38.3' Gy. W.
24+97.9,39' Fence Cor.
25+05.2,33.8' Fence Cor.
25+09.5,2' Sanitary M.H. (Buried)
25+81.5,33.3' Fence Cor.
25+99.7,38.5' Fence Cor.
26+08.6,35' Gy. W.
26+13.1,35.4' Gy. W.
26+17,35.4' Gy. W.
26+46.2,39' Gy. W.
26+47.2,35' Pwp. (71-905)
26+51.2,38.6' Gy. W.
26+54.7,38.8' Gy. W.
26+58.8,2.2' Sanitary M.H.
26+63.7,33.4' Telephone M.H.

BEGIN PROJECT
Sta. 23+08.34 Line "A"

+70.4, 1.6' Lt. STR. NO. 33
M.H. Type "C-4" and 136' of 12" Pipe Req'd.

+33.8, 2.3' Lt. STR. NO. 31
M.H. Type "C-4" and 33' of 12" Pipe Req'd.

+27.2, 20.8' Lt. STR. NO. 34
Inlet Type "J-10" and 5' of 12" Pipe Req'd.
(Connect to Exist. 12" Pipe)

+99.0, 11.9' Rt. STR. NO. 37
Exist. Storm M.H. Adjust Casting to Grade.

Profile Grade Varies 0.0' to 3.0' Lt. "A"
Profile Grade 3.0' Lt. "A"
Profile Grade Varies 3.0' Lt. to 4.0' Rt. "A"

+09.5, 1.9' Lt. STR. NO. 39
M.H. Type "C-4" and 146' of 12" Pipe Req'd.

+58.8, 2.1' Lt. STR. NO. 44
M.H. Type "C-4" and 225' of 12" Pipe Req'd.

Northfolk Southern Railway Company
Chrome LLC
Michigan Ave.
LINE "A"
N46° 43' 06"E
Profile Grade
See Next Plan Sheet

+04.2, 30.0' Rt. STR. NO. 29
Inlet Type "A-2" and 10' of 12" Pipe Req'd.
(Connect to Exist. 12" Pipe).

+24.5, 30.6' Rt. STR. NO. 30
Exist. San. M.H. Adjust Casting to Grade with 29' of 24" Pipe Req'd.

+57.0, 35.0' Rt. STR. NO. 32
M.H. Type "C-4" and 226' of 24" Pipe Req'd.

Board of Sanitary Commissioners

+29.7, 23.0' Rt. STR. NO. 35
Inlet Type "M-10" and 5' of 12" Pipe Req'd.
(Connect to Exist. 12" Pipe). Reconnect 5' of Exist. 12" Pipe (W.)

City of East Chicago Board of Public Works

+82.0, 23.0' Rt. STR. NO. 36
Inlet Type "M-10" and 16' of 12" Pipe Req'd.

Iglesia De Dios Pentacostal M.I. Emmanuel Inc.

+01.0, 24.5' Rt. STR. NO. 38
M.H. Type "C-4" and 5' of 12" Pipe Req'd.

+10.7, 40.3' Rt. STR. NO. 40
Inlet Type "M-10" and 16' of 12" Pipe Req'd.

+66.1, 41.1' Rt. STR. NO. 41
Inlet Type "M-10" and 56' of 12" Pipe Req'd.

+84.0, 23.2' Rt. STR. NO. 42
Inlet Type "J-10" and 23' of 12" Pipe Req'd.

+87.0, 35.0' Rt. STR. NO. 43
M.H. Type "C-4" and 210' of 24" Pipe Req'd.

City of East Chicago Department of Redevelopment

+90.4, 18.1' Rt. STR. NO. 45
Exist. Storm M.H. Adjust Casting to Grade.

Indicates Pavement Removal

22+28.3,41.2' End Fence
22+29.9,27.9' Gy. W.
22+35.3,27.9' Pwp. (65-683)
22+62.6,48.3' End Fence
22+66.4,31.2' Storm M.H.
23+05.2,33' Inlet
23+24.5,30.6' Storm M.H.
23+40.7,87.7' Pwp. (No No.)
23+48.1,27.7' Pwp. (65-684)
23+48.5,43.1' Sign (Stop)
23+65.9,28.1' L.P. (No No.)
23+67.8,28.4' Gy. W.
24+29.8,24.5' Inlet (B-15)
24+74.1,27.4' Pwp. (No No.)
24+84.28.7' L.P. (No No.)
24+98.2,32.1' W.V.
24+99.11.9' Storm M.H.
25+01.7,32.8' Inlet
25+27.3,30.2' Sanitary M.H.
25+66.8,41.8' Inlet (J-10)
25+71.47.1' Pwp. (65-464)
25+73.1,49.5' Sign (Stop)
25+90.7,27' Pwp. (71-906)
26+25.4,28.8' L.P. (No No.)
26+62.2,28.3' Pwp. (71-908)
26+74.4,39.7' Sli. Post
26+77.4,28.8' Gy. W.
26+78.36.6' Sli. Post
26+79.2,24.2' Inlet (B-15)
26+81.8,28.8' Gy. W.
26+85.6,28.6' Gy. W.
26+89.9,38.6' Sli. Post
26+90.4,18.1' Storm M.H.
26+92.4,29.8' Gy. W.

Control Pt. Sta. 29+77.49 Rt.
NORTH 2330381.0060
EAST 2850569.5750

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: C.E.S./B.M.S. DRAWN: B.M.S.
CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

CITY OF EAST CHICAGO
DEPARTMENT OF PUBLIC WORKS

MICHIGAN AVENUE - LINE "A"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
N/A	12 of XXX
CONTRACT	PROJECT
17-0066	MICHIGAN AVE. - EAST CHICAGO

B.M. NO. 8 Cut Square in Ltp. Fdn.
29+99.11 "A", 29.78 Rt., Elev. 587.21

+33.8 Lt. Str. No. 31
+24.5 Rt. Str. No. 30
+70.4 Lt. Str. No. 33
+09.5 Lt. Str. No. 39
+27.3 Rt. Str. No. __
+58.8 Lt. Str. No. 44
+90.4 Rt. Str. No. 45
+57.0 Rt. Str. No. 32
+90.0 Rt. Str. No. 37
+87.0 Rt. Str. No. 43

Rim 586.45
Rim 586.90
Rim 586.96
Rim 587.05
Rim 586.42
Rim 586.95
Rim 586.40

Ex. 24" San.
Exist. Sanitary Sewer (Plotted 35' Above Datum)
Exist. Combo. Sewer (Plotted 35' Above Datum)
Ex. 12" Combo.
577.18
575.62
575.62
575.62
576.92
575.62
576.52
575.62
575.52
581.20

Railroad Exception
Profile Grade Varies 0.0' to 3.0' Lt. "A"
Profile Grade 3.0' Lt. "A"
Profile Grade Varies 3.0' Lt. to 4.0' Rt. "A"
Profile Grade Line "A"
Existing Profile Grade Line "A"
+08.3
+00.0
+00.0
+50.0
Rim.: 586.63
Rim.: 586.54
Rim 586.66
Rim.: 586.63
Rim.: 586.60
-0.30%
+0.30%
-0.30%

580.67
580.08
575.71
12" Pipe @ 0.08%
575.68
12" Pipe @ 0.10%
12" Pipe @ 0.09%
Ex. 30" Storm
574.77
575.54
575.40
12" Pipe @ 0.10%
575.81
Rim.: 586.90
Rim.: 586.88

Ex. 60" Storm
Ex. 84" Storm
Ex. 24" San.
Sanitary Sewer Rt. (Plotted 15' Below Datum)
565.00
560.00
560.00
24" Pipe @ 0.13%
577.14
24" Pipe @ 0.10%
560.26
560.36
576.91

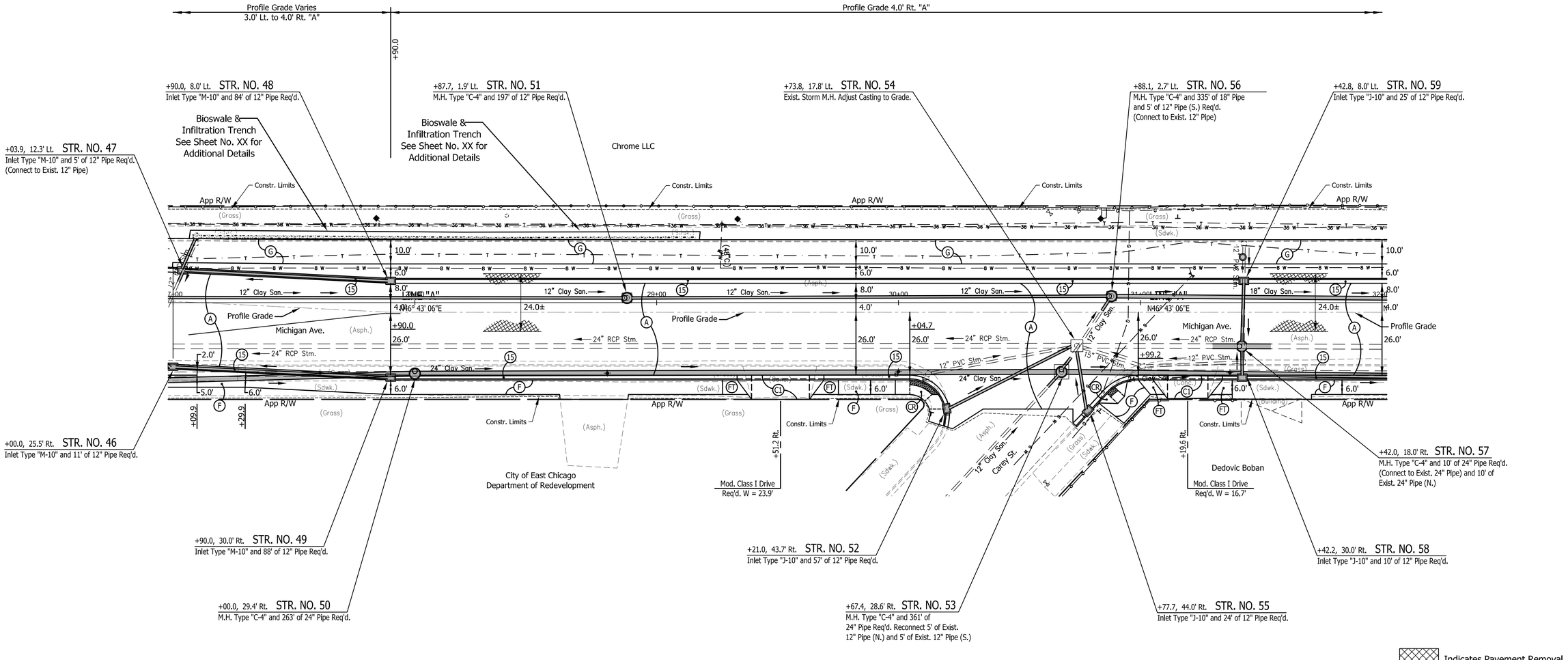
21+00 22+00 23+00 24+00 25+00 26+00 27+00

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		CITY OF EAST CHICAGO DEPARTMENT OF PUBLIC WORKS	HORIZONTAL SCALE 1" = 20' / VERTICAL SCALE 1" = 5' / BRIDGE FILE N/A / DESIGNATION
DESIGNED: C.E.S./B.M.S.	DRAWN: B.M.S.	MICHIGAN AVENUE - LINE "A" PROFILE SHEET	SURVEY BOOK N/A / SHEETS 13 of XXX
CHECKED: C.E.S./B.M.S.	CHECKED: D.W.C.		CONTRACT 17-0066 / PROJECT MICHIGAN AVE. - EAST CHICAGO

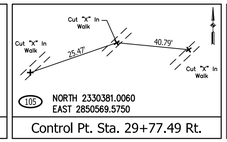
Street Appr. Req'd. Rt.
Sta. 30+46.3, W = 51.7'

27 | 28 | 29 | 30 | 31 | 32

27+09.3,24.6' Inlet (B-15)
27+84.1,34.9' Pwp. (71-914)
28+38.35.9 H.H. (Signal)
28+87.7,2' Sanitary M.H.
29+26.3,20.8' W.V.
29+27.32.4' F.Hyd.
29+33.5,34.6' Pwp. (71-904)
30+62.5,37.1' G.V.
30+74.38.2' G.V.
30+83.6,34.7' Pwp. (71-903)
30+88.12.7' Sanitary M.H.
31+15.5,34.8' Sign (No Turning 4PM-7PM Time)
31+21.31.5 W.V.
31+42.9,24.4' Inlet (B-15)



27+60.8,29' Lt.P. (No No.)
28+79.6,29.2' Lt.P. (No No.)
29+77.5,126.5' Sanitary M.H.
29+99.1,29.8' B.M.
30+00.28.5' Lt.P. (No No.)
30+10.1,32' Sign (Double One Way Arrow)
30+12.4,29.3' Inlet (B-15)
30+13.6,45.3' Sign (Do Not Enter)
30+61.2,74.7' G.V.
30+66.6,81.3' Fence Cor.
30+67.4,28.6' Sanitary M.H.
30+73.8,17.8' Storm M.H.
30+78.4,92.6' End Fence
30+82.8,45.1' Sign (Stop)
31+01.26.2' Inlet (M-10)
31+03.8,40.6' Fence Cor.
31+11.9,40.6' End Fence
31+24.1,40.6' End Fence
31+37.1,29' Lt.P. (No No.)
31+39.9,40.5' End Fence
31+42.5,24.6' Inlet (B-15)



Control Pt. Sta. 29+77.49 Rt.

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

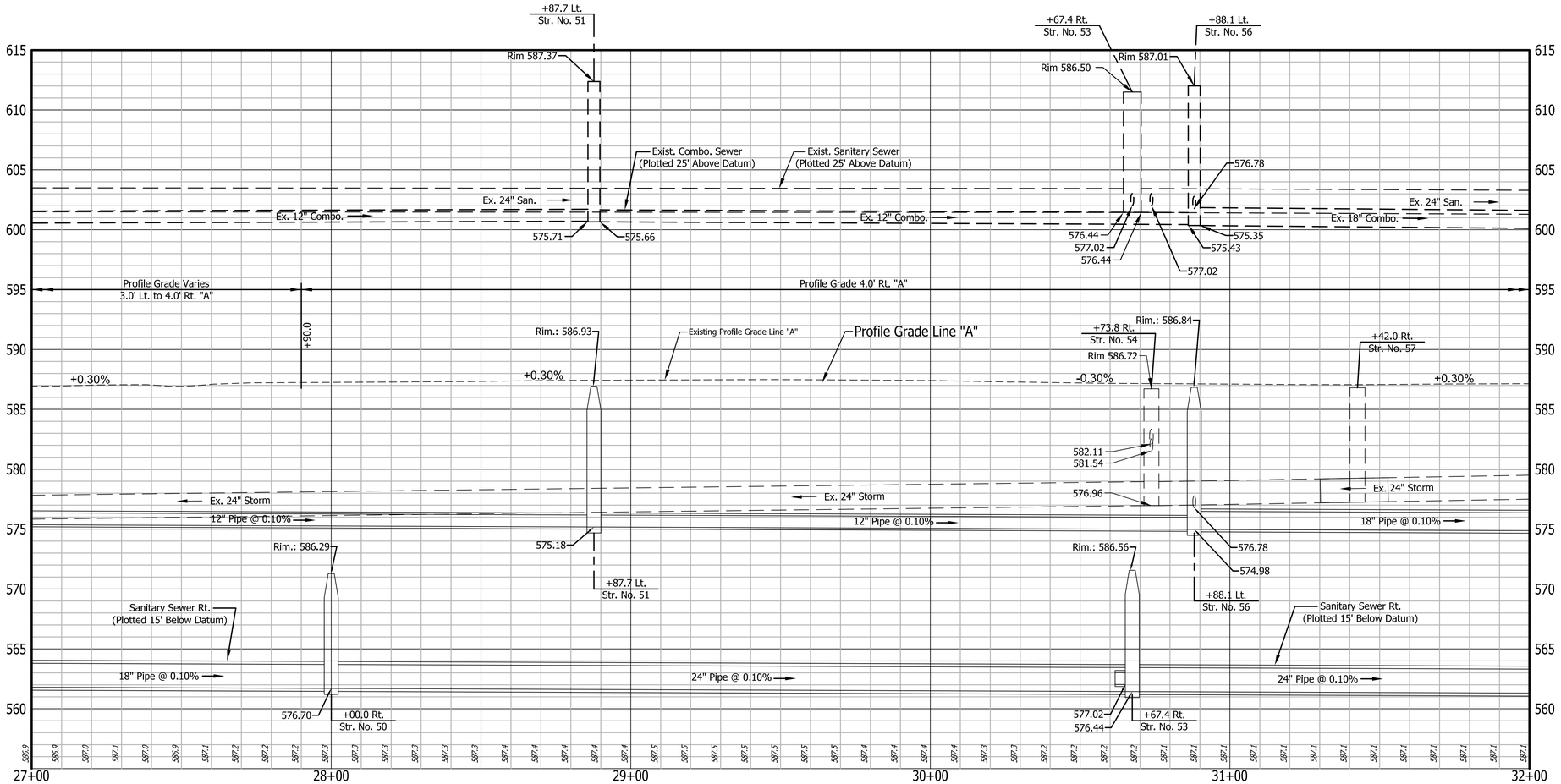
DESIGNED: C.E.S./B.M.S. DRAWN: B.M.S.
CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

CITY OF EAST CHICAGO
DEPARTMENT OF PUBLIC WORKS

MICHIGAN AVENUE - LINE "A"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
N/A	14 of XXX
CONTRACT	PROJECT
17-0066	MICHIGAN AVE. - EAST CHICAGO

B.M. NO. 8 Cut Square in Ltp. Fdn.
29+99.11 "A", 29.78 Rt., Elev. 587.21



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: C.E.S./B.M.S. DRAWN: B.M.S.

CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

CITY OF EAST CHICAGO
DEPARTMENT OF PUBLIC WORKS

MICHIGAN AVENUE - LINE "A"
PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	
SURVEY BOOK	SHEETS
N/A	15 of XXX
CONTRACT	PROJECT
17-0066	MICHIGAN AVE. - EAST CHICAGO

Street Appr. Req'd. Rt.
Sta. 34+88.6, W = 76.7'

32 | 33 | 34 | 35 | 36 | 37

32+12.7,20.8' Tele. M.H.
32+33.3,35' Pwp. (71–902)
33+33.8,36.7' H.H. (Traffic)
33+77.1,16.4' W.V.
33+82.6,34.6' Pwp. (71–901)
34+85.2,25.1' W.V.
34+85.4,31.1' F.Hyd.
35+04.2,33' Telephone M.H.
35+30.1,25.1' Inlet (B–15)
35+38.1,34.3' Pwp. (72–915)
35+40.3,34' Sign (No Parking Any Time)
35+40.8,33.9' Tf. Box (Comcast)
35+88.2,16' W.V.
36+84.1,34.6' Pwp. (72–979)
36+87.7,35.7' H.H. (Lighting)

Profile Grade 4.0' Rt. "A"

+26.6, 0.0' STR. NO. 60
M.H. Type "C-4" and 85' of 24" Pipe Req'd.

+06.1, 9.2' Rt. STR. NO. 65
M.H. Type "C-4" and 50' of 24" Pipe Req'd. Reconnect 19' of Exist. 15" Pipe (W.)

+30.1, 8.0' Lt. STR. NO. 67
Inlet Type "J-10" and 5' of 12" Pipe Req'd. (Connect to Exist. 12" Pipe)

+62.0, 8.0' Lt. STR. NO. 70
Inlet Type "M-10" and 28' of 12" Pipe Req'd.

END PROJECT
Sta. 35+52.00 Line "A"

Chrome LLC
Chrome LLC

Constr. Limits | App R/W | (Grass) | (Sdwk.) | 10.0' | 6.0' | 8.0' | 4.0' | 26.0' | 18" C.S.P. | 48" C.S.P.

LINE "A" N46° 43' 06"E

33+00 | 34+00 | 35+00 | 36+00 | 37+0

18" Clay San. | 24.0± | 24" Clay San. | 15" Clay San. | 15" Clay Combo.

Profile Grade | +13.1 | +42.8

Michigan Ave. | (Asph.)

24" RCP Stm. | 18" RCP Stm. | 12" PVC Stm. | 24" Clay San. | 12" Clay San. | 15" Clay Combo. | 6" RCP Stm. | 12" RCP Stm.

(Sdwk.) | (Grass) | (Building) | (Asph.) | (Conc.)

+84.3 Rt.

City of East Chicago

Steel Fabrication & Welding Inc.

Almaraz Juan Luna &
Esmeralda Cuellar Luna

Mod. Class I Drive
Req'd. W = 25.6'

City of East Chicago
Department of Redevelopment

Drummond St.

Broadway St.

+32.4, 32.9' Rt. STR. NO. 61
M.H. Type "C-4" and 62' of 24" Pipe Req'd.

+45.3, 50.6' Rt. STR. NO. 62
Inlet Type "M-10" and 42' of 12" Pipe and 5' of 12" Pipe (E.) Req'd. (Connect to Exist. 12" Pipe)

+88.4, 44.1' Rt. STR. NO. 63
Exist. Storm M.H. Adjust Casting to Grade with 27' of 18" Pipe Req'd.

+93.0, 63.7' Rt. STR. NO. 64
Exist. San M.H. Adjust Casting to Grade.

+30.0, 19.5' Rt. STR. NO. 66
Exist. Storm M.H. Adjust Casting to Grade.

+27.0, 57.7' Rt. STR. NO. 68
Inlet Type "M-10" and 25' of 12" Pipe Req'd.

Indicates Pavement Removal

32+14.9,39.6' End Fence
32+41.6,39.8' Fence Cor.
32+42.56,4' End Fence
32+48.3,44.7' Maple 30 IN
32+53.6,29' L.t.P. (No No.)
33+42.2,38.6' Stl. Post
33+42.3,40.8' End Fence
33+50.7,38.7' Stl. Post
33+59,38.7' Stl. Post
33+63.4,28.9' L.t.P. (No No.)
33+67.1,38.6' Stl. Post
33+71.3,38.6' Stl. Post
33+71.6,39.8' Fence Cor.
33+72.8,60.4' End Fence
33+73.6,32.8' W.M.
33+96.7,38.7' Stl. Post
34+17.3,28.2' Inlet (J–10)
34+26.6,0' Sanitary M.H.
34+27.9,41' H.H. (Signal)
34+32.1,44.2' Conc. Fdn.
34+37.8,49.5' L.t.P. (No No.)
34+41.9,83.7' Inlet
34+44.5,49.5' Inlet
34+71.9,107.9' Sign (Broadway/Drummond St.)
34+86.2,56.9' C.B.
34+88.4,44.1' Storm M.H.
34+93.6,3.7' Sanitary M.H.
35+06.1,9.1' Sanitary M.H.
35+10.5,115.5' Inlet
35+30,19.5' Storm M.H.
35+33.8,90.6' Storm M.H.
35+38.1,28.7' C.B. (B–15)
35+38.6,19.9' W.V.
35+44.5,80.4' Inlet
35+66.2,28.7' Lt. P.
36+66.4,39.5' End Fence
36+85.5,31.8' L.t.P. (No No.)

Cut "X" In Curb | Cut "X" In Walk | Mog. Spk. Nail | Cut "X" In Walk | 9.01' | 26.99' | 18.79' | 107

NORTH 2330896.3330
EAST 2851106.8390

Control Pt. Sta. 37+21.91 Rt.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

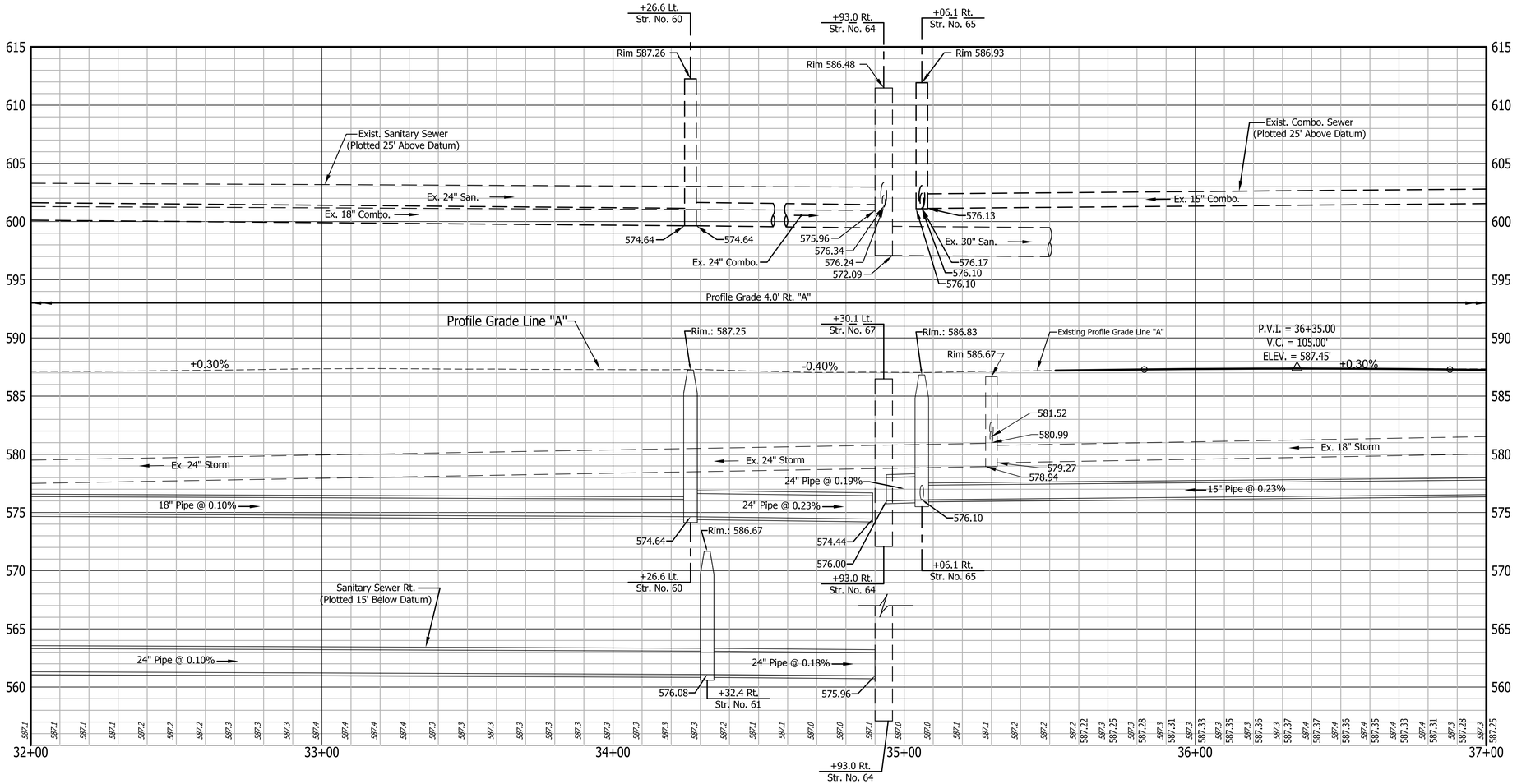
DESIGNED: C.E.S./B.M.S. DRAWN: B.M.S.
CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

CITY OF EAST CHICAGO
DEPARTMENT OF PUBLIC WORKS

MICHIGAN AVENUE - LINE "A"
PLAN SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
N/A	16 of XXX
CONTRACT	PROJECT
17–0066	MICHIGAN AVE. – EAST CHICAGO

B.M. NO. 8 Cut Square in Ltp. Fdn.
29+99.11 "A", 29.78 Rt., Elev. 587.21



RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: C.E.S./B.M.S. DRAWN: B.M.S.

CHECKED: C.E.S./B.M.S. CHECKED: D.W.C.

CITY OF EAST CHICAGO
DEPARTMENT OF PUBLIC WORKS

MICHIGAN AVENUE - LINE "A"
PROFILE SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	
SURVEY BOOK	SHEETS
N/A	17 of XXX
CONTRACT	PROJECT
17-0066	MICHIGAN AVE. - EAST CHICAGO