HOBSON ROAD REHABILITATION
FROM STATE BOULEVARD TO STELLHORN ROAD

MAYOR
HONORABLE THOMAS C. HENRY

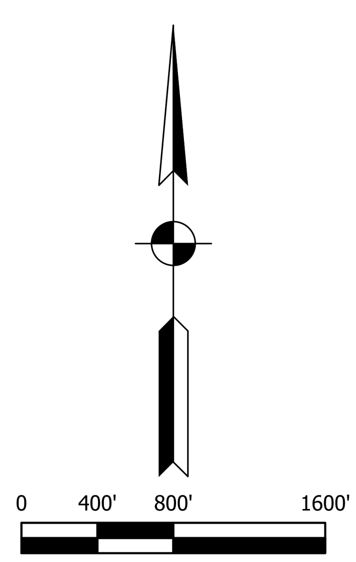
THE BOARD OF PUBLIC WORKS

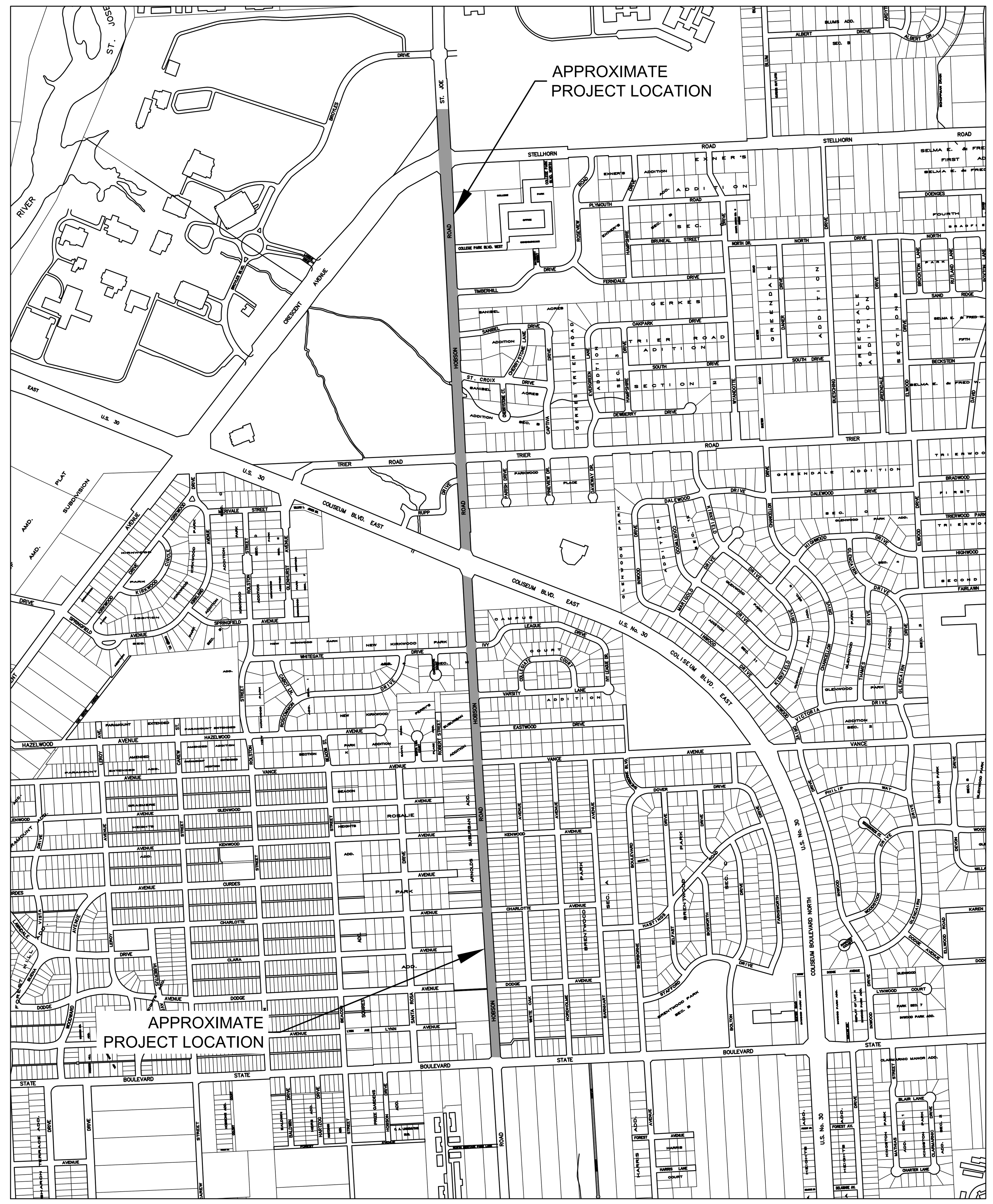
ROBERT P. KENNEDY
CHAIRMAN

KUMAR MENON
MEMBER

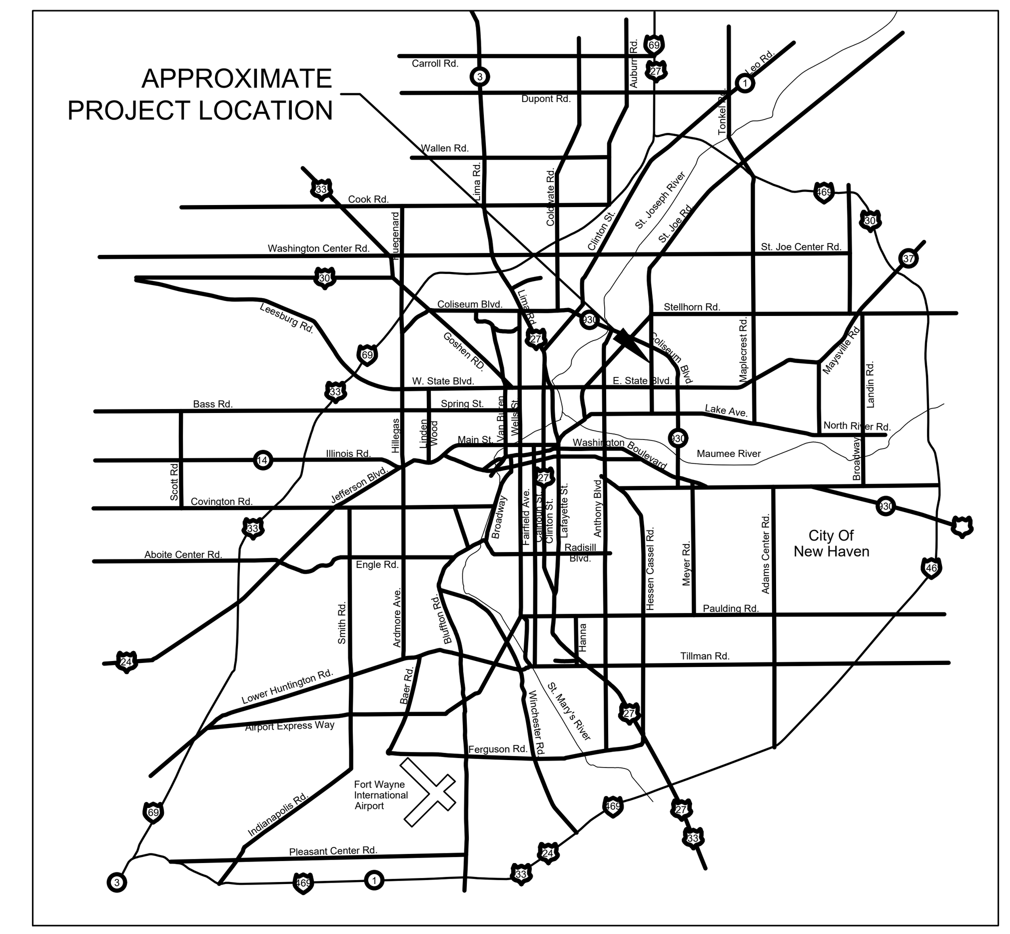
MATTHEW WIRTZ
MEMBER

MIKE AVILA
MEMBER





LOCATION MAP



CITY VICIINITY MAP
SCALE: N.T.S.

PLANS PREPARED BY:
VS ENGINEERING, INC.

10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
www.vsengineering.com
Phone: (260) 489-6635
Fax: (260) 489-6605

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

11/30/15

NOT FOR CONSTRUCTION
PREFINAL PLANS

DRAFTING SCHEDULE

NO.	DATE	DESCRIPTION	BY	APR.

TRANSPORTATION ENGINEERING SERVICES — CITIZENS SQUARE, 200 EAST BERRY STREET 46802

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

		RES.	W.O.	S.T.
DESIGNED BY:	MH			
DRAWN BY:	LG			
CHECKED BY:	HF			

GENERAL NOTES

1. All materials and workmanship shall comply with the City of Fort Wayne Transportation Engineering standards.

2. The general project notes apply to all drawings in this set, and to the process of construction. These notes are part of the binding contract between owner and contractor.

3. Any and all field changes to the design/design intent shall immediately be brought to the attention of the City of Fort Wayne Transportation Engineering Department and the construction supervisor, prior to execution.

4. If the contractor, in the course of the work, finds any discrepancies between the plans and the physical conditions of the locality or any error in the plans it shall be his/her duty to immediately inform the City of Fort Wayne Transportation Engineering Department and the construction supervisor. Any work done after such discovery without authorization will be at the contractor's risk.

5. The existing utilities shown on the plans have been prepared from information available to the engineer and City, and may not be accurate to extent or locations. Prior to any work, the contractor shall notify all utility entities and have them locate and mark or re-mark their facilities. Contractor to notify Indiana Underground (1-800-382-5544) 48 hours prior to construction for the exact location of existing utilities.

6. The contractor is responsible for contacting and coordinating all work in accordance with private utility companies' and City departments' requirements.

7. The contractor shall preserve and protect everything that does not reasonably interfere with demolition or construction. Damage by the contractor to City, State, or privately owned property shall be restored at the contractor's expense.

8. All materials and execution of the work shall be in accordance with federal, state and local laws, rules and regulations.

9. Contractor shall notify merchants/property owners 3 days prior to any demolition or construction in areas adjacent to their locations. Merchants/property owners are responsible for removal of any personal property within the right-of-way. Handling of private property is at contractor's risk.

10. Contractor is responsible for providing barricades and safety measures for all areas being demolished and constructed.

11. Contractor shall provide traffic control measures per the plans and per specifications.

12. Limits of work shown are to the nearest control/score joint. The location shown on the plan is approximate.

13. Structural backfill material shall be installed per INDOT specification.

14. Manholes shall be constructed without steps installed.

15. All sewer trenches within the road right-of-way, under parking lots, drives, sidewalks and existing pipes shall be backfilled with #53, #73 aggregates, compacted to 95% proctor density, unless otherwise noted.

16. All permits required for the execution of the work shall be obtained and paid for by the contractor.

15. The gravity sanitary sewer shall have a minimum cover of 4'-0" from the finished grade to the top of the pipe, per City Standards Unit IV, Ch. 3, Sec. 3.4.1 Exceptions to this requirement will be addressed by water resources on a case by case basis. All gravity sewer pipe shall be installed using a laser and target system thru the pipe.

16. Any existing pipe or tile(s), which are damaged during construction, shall be replaced with equal or better materials and construction methods.

17. All areas disturbed during construction shall be regraded to the original or approved controus prior to completion of the project.

18. Any pavement or improved road surface or sidewalk damaged during construction shall be replaced with equal or better materials and construction methods.

19. All grassed areas, which are damaged during the course of construction, shall be seeded with comparable grass seed and covered with straw. Water shall be applied as required to assure growth.

20. The contractor will be responsible for final adjustment of all castings (manholes, inlets, water valves, etc.).

21. The contractor shall notify the engineer and City of Fort Wayne a minimum of 72 hours prior to beginning construction and must give prior notice each day thereafter when work will not be taking place.

22. Contractor should maintain a safe traffic construction zone throughout the entirety of the project. Maintaining clean roads of debris daily as well as the proper construction signs depicting the construction zone from all incoming directions.

UTILITIES & CONTACTS

American Electric Power
P.O. Box 60, Floor 24
Fort Wayne, IN 46801-0060
(260) 408-1895
Mr. Mark Walls

Comcast Cablevision
720 Taylor Street
Fort Wayne, IN 46802
(260) 410-1895
Mr. Dave Harris

Frontier Communications
8001 W. Jefferson Blvd.
Mail Code: INFAOI
Fort Wayne, IN 46804
(260) 461-3650

Indiana Fiber Network
5520 West 76th Street
Indianapolis, IN 46268
(317) 280-4636
Mr. Jim Royer

NIPSCO
1501 Hale Avenue
Fort Wayne, IN 46802
(260) 439-1221
Ms. Lisa Otis

RVP Fiber Company, LLC.
201 Ionia Ave. SW
Grand Rapids, MI 49503
(616) 988-7194
Mr. Chris Lentine

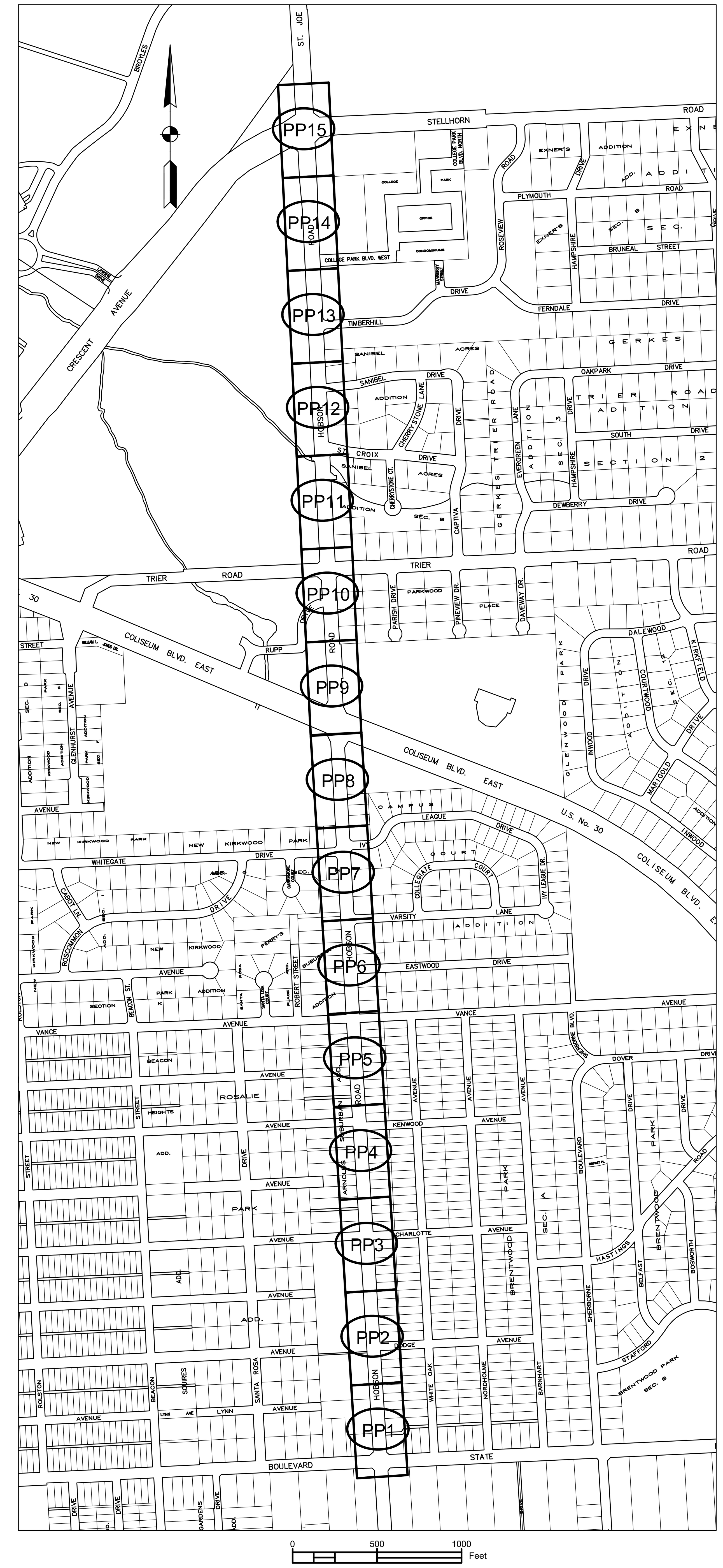
Zayo Bandwidth
625 East 11th Street
Indianapolis, IN 46202
(317) 524-5711

Sanitary Sewer/Storm Sewer/Water
City of Fort Wayne Development Services
Citizens Square
200 East Berry Street
Suite 140
Fort Wayne, IN 46802
(260) 427-2680
Mr. Craig Berndt

Street Lighting
City of Fort Wayne Street Lighting Engineering
Citizens Square
200 East Berry Street
Suite 210
Fort Wayne, IN 46802
(260) 427-1172
Mr. Herb Berg

Traffic Signal & Interconnect
City of Fort Wayne Traffic Engineering
Citizens Square
200 East Berry Street
Suite 210
Fort Wayne, IN 46802
(260) 427-1172
Mr. Shan Gunawardena

INDEX TO SHEETS



TEMPORARY BENCHMARK TABLE

TBM #	SHEET #	NORTHING	EASTING	ELEV.	DESCRIPTION
1	PP1	2170128.1550	490489.2021	792.97	CUT "X" ON THE SOUTHWEST BOLT OF THE MAST ARM LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF HOBSON ROAD AND STATE BOULEVARD +/- 20' EAST OF HOBSON ROAD AND +/- 40' NORTH OF STATE BOULEVARD.
2	PP4	2171126.5130	490460.1464	807.05	CUT "X" IN THE SOUTH BOLT OF A FIRE HYDRANT LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF KENWOOD AVENUE AND HOBSON ROAD +/- 15' NORTH OF KENWOOD AVENUE AND +/- 35' WEST OF HOBSON ROAD.
3	PP7	2172504.0880	490430.9636	793.84	CUT "X" IN THE SOUTH BOLT OFA FIRE HYDRANT LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF HOBSON ROAD AND IVY LEAGUE DRIVE +/- 15' NORTH OF IVY LEAGUE DRIVE AND +/- 35' EAST OF HOBSON ROAD.
4	PP11	2172503.7960	489447.9488	786.36	CUT SQUARE IN THE NORTHWEST CORNER OF A CONCRETE BASE FOR LIGHT POLE #R26002. LIGHT POLE IS +/- 25' EAST OF HOBSON ROAD AND +/- 150' NORTH OF TRIER ROAD.
5	PPxx	2172464.1740	487853.6102	799.09	CUT "X" IN THE NORTH BOLT OF A MAST ARM FOR A TRAFFIC LIGHT LOCATED IN THE SOUTHEAST CORNER OF THE INTERSECTION OF HOBSON ROAD AND STELLHORN ROAD. +/- 35' EAST OF HOBSON ROAD AND +/- 40' SOUTH OF STELLHORN ROAD.

LEGEND

ALIGNMENT
SECTION LINE
PARCEL LINE
EASEMENT LINE
RIGHT-OF-WAY
W — WATER LINE
UGT — TELEPHONE LINE
G — GAS LINE
UGE — ELECTRIC LINE
SANITARY SEWER
STORM SEWER
STM — STEAM LINE
HEDGEROW
TREELINE
FLOWLINE
X — FENCE LINE
EXISTING PAVEMENT (CONC./ASPH./GRAV./CURB/SIDEWALK)
INDEX CONTOUR
INTER. CONTOUR

TF TRAFFIC MANHOLE
E ELECTRIC MANHOLE
LIGHTPOLE
GROUND LIGHT
ELECTRIC HANDHOLE
ELECTRIC METER
POWER POLE
GUY ANCHOR
C CABLE BOX
PEDESTRIAN SIGNAL
BOLLARD/POST
TELEPHONE PEDESTAL
COMM COMMUNICATION BOX
T TELEPHONE MARKER
FLAG POLE
MB MAILBOX
PLANTER
PL PLAQUE
R/W MARKER
SIGN
BORE HOLE
TRASHCAN

ST STORM MANHOLE
T TELEPHONE MANHOLE
STANDPIPE
PARKING METER
WATER VALVE
FIRE HYDRANT
WATER METER
W WATER MANHOLE
SPRINKLER
WELL WELL
GAS METER
GAS VALVE
G GAS MARKER
MAST ARM POLE
SIG CONT TRAFFIC CABINET
DETECTOR LOOP
DETECTOR HOUSING
STRAIN POLE

SS SANITARY MANHOLE
SM STEAM MANHOLE
SM STEAM MANHOLE SQ.
MH MANHOLE OTHER
CURB INLET
ST CURB INLET/MANHOLE
ROUND INLET
SQUARE INLET
CONIFEROUS TREE w/TRUNK SIZE
DECIDUOUS TREE w/TRUNK SIZE
SHRUB
STUMP
CP CONTROL POINT
PROPERTY CORNER

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

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Prefinal Plans
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DESIGNED BY:	MH
CHECKED BY:	HF
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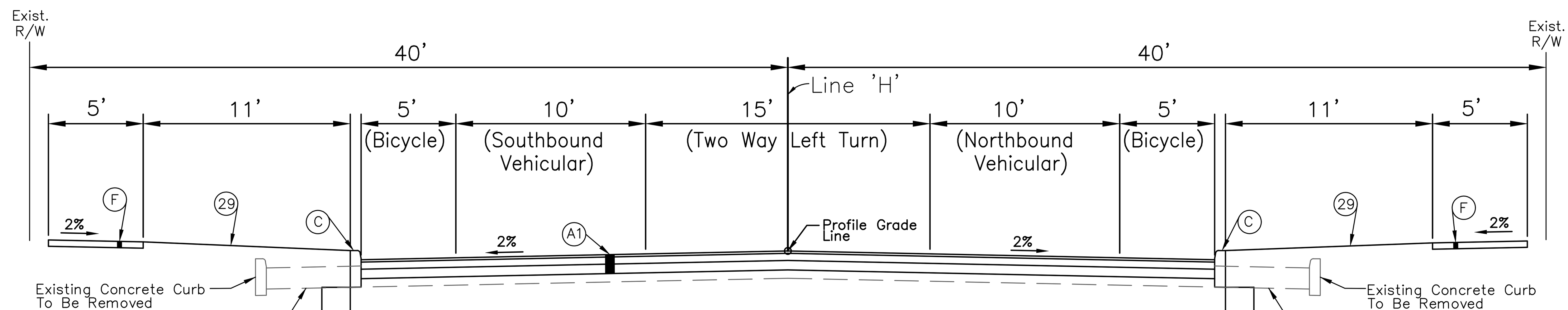
JOB NO:	
SCALE:	H=1:20

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

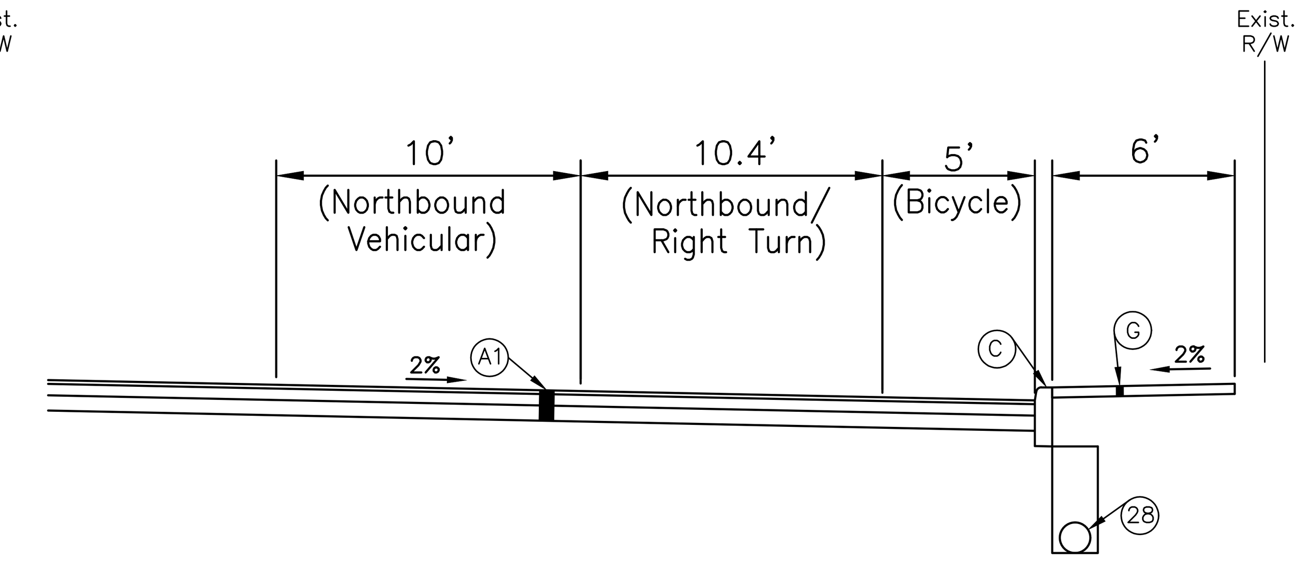
INDEX SHEET

DRAWING NO.
G1

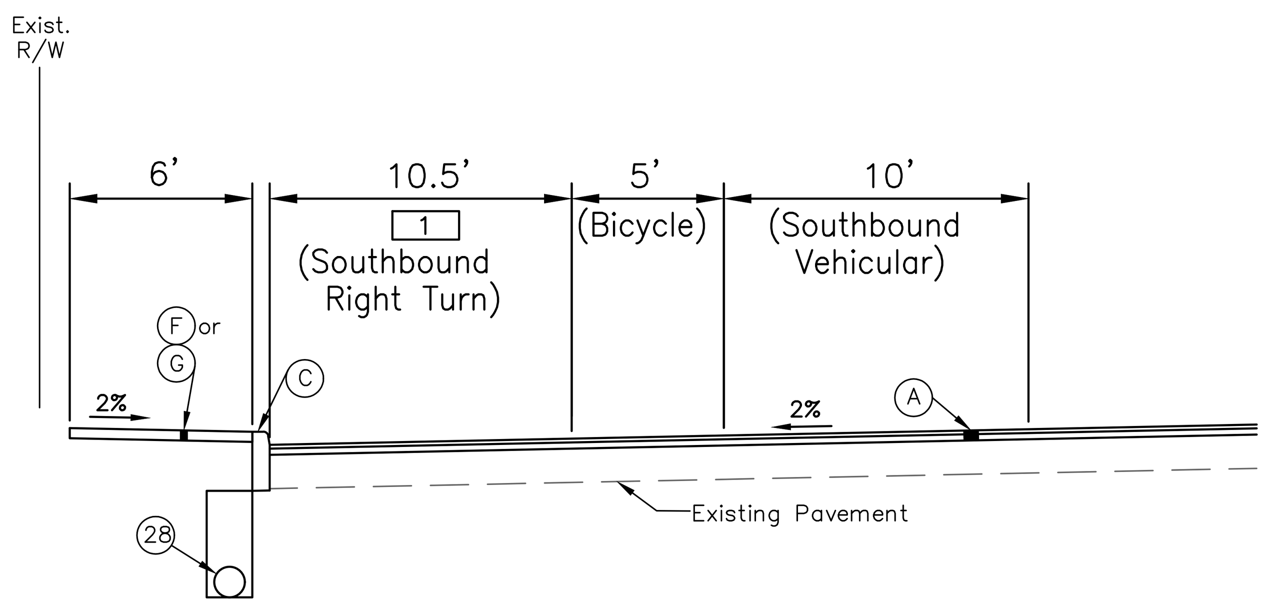


HOBSON RD. – STATE BLVD. TO STELLHORN RD.

Line 'H', Sta. 10+92.07 – Sta. 11+92.00
Line 'H', Sta. 53+08.00 – Sta. 54+08.79
Line 'H', Sta. 55+53.03 – Sta. 56+53.00
Line 'H', Sta. 88+48.00 – Sta. 89+48.83

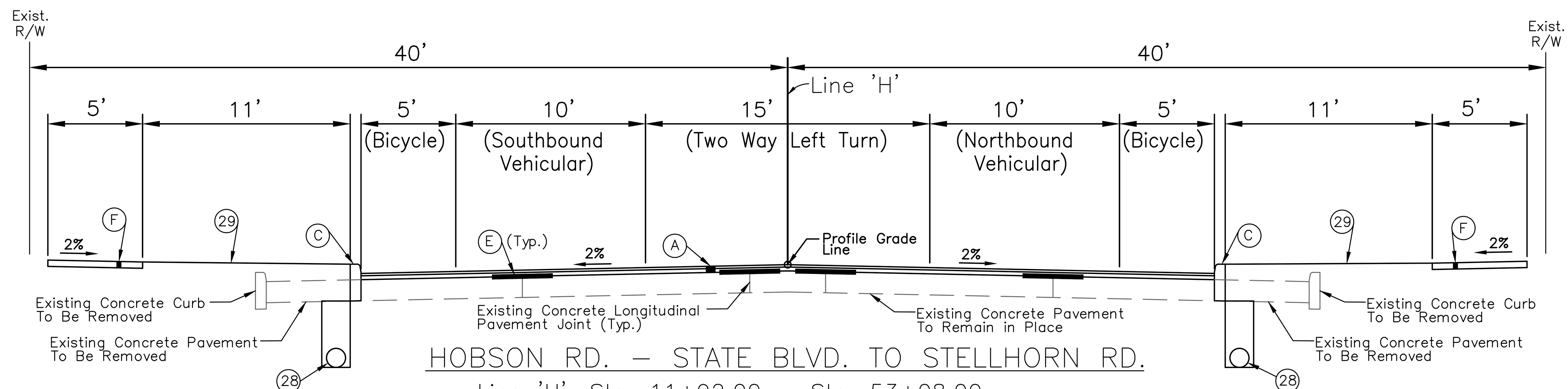


HOBSON RD. – Line 'H' Sta. 88+48.00 – Sta. 89+48.83



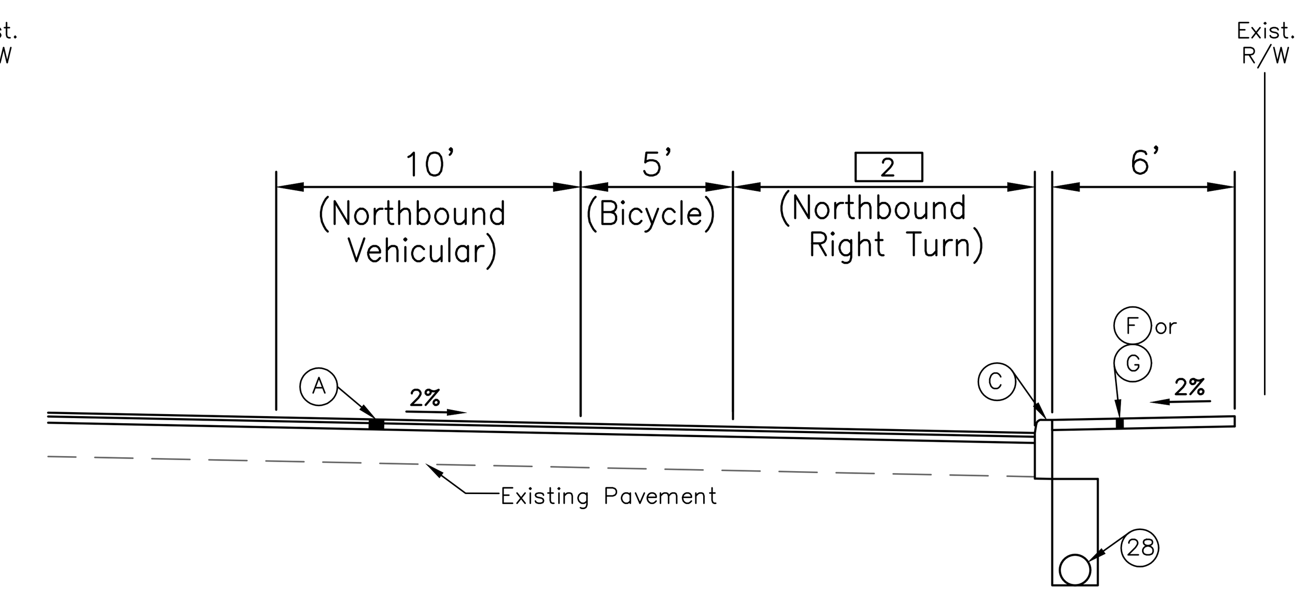
HOBSON RD. – Line 'H' Sta. 59+49.55 – Sta. 60+49.55

1 Varies from 10'–6" at Sta. 59+49.55 to 0'–0" Sta. 60+49.55



HOBSON RD. – STATE BLVD. TO STELLHORN RD.

Line 'H', Sta. 11+92.00 – Sta. 53+08.00
Line 'H', Sta. 56+53.00 – Sta. 85+09.66

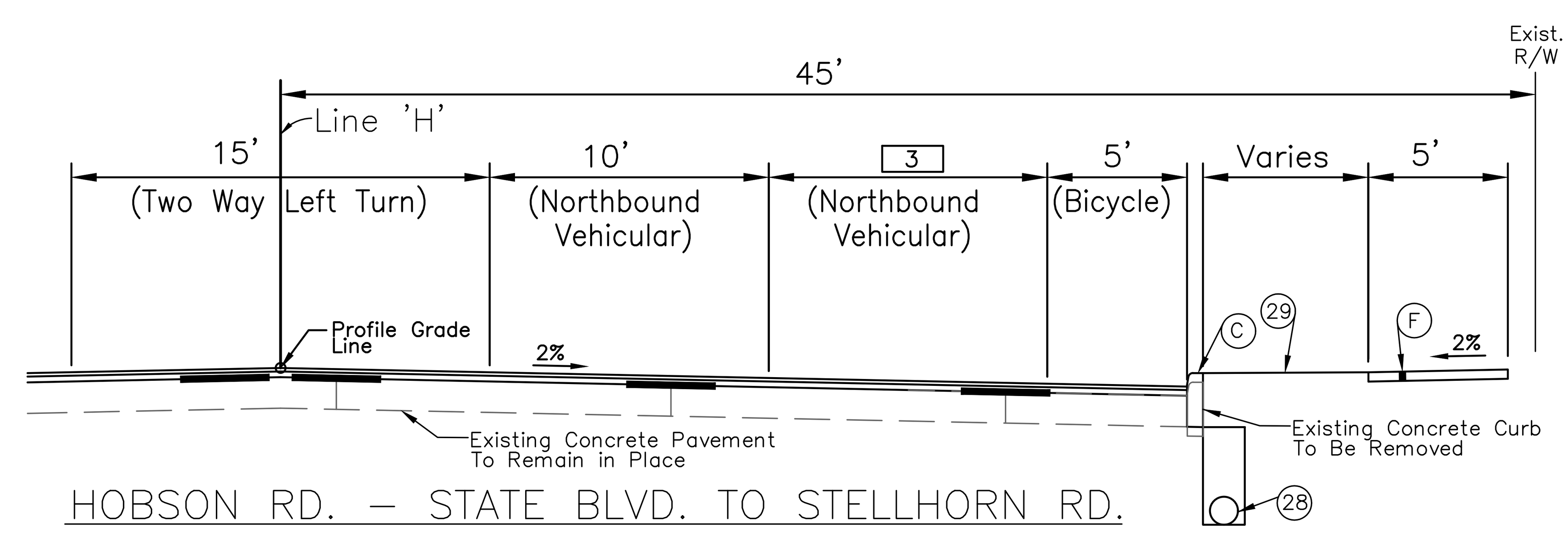


HOBSON RD. – Line 'H' Sta. 49+05.60 – Sta. 53+08.00

2 Varies from 0'–0" at Sta. 11+92.00 to 10'–5" Sta. 50+66.00
10'–5" from Sta. 50+66.00 to Sta. 53+08.00

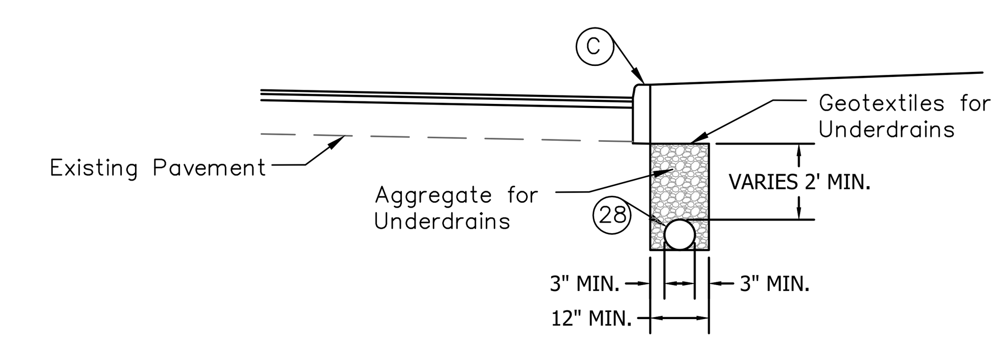
LEGEND

- (A) 165#/SYD 9.5 mm Surface Type A on 275#/SYD 12.5 mm Intermediate Type A
- (A1) 165#/SYD 9.5 mm Surface Type A on 495#/SYD 12.5 mm Intermediate Type A on 660#/SYD 25.0 mm Base Type A
- (A2) 165#/SYD 9.5 mm Surface Type A on 275#/SYD 12.5 mm Intermediate Type A on 660#/SYD 25.0 mm Base Type A
- (A3) Variable Depth Milling 165#/SYD 9.5 mm Surface Type A on Variable Depth Wedge & Level Type A
- (C) Concrete Curb, Type III
- (E) Fiberglass Engineered Paving Mat
- (F) Sidewalk, PCCP 4" (where necessary)
- (G) Curbface Sidewalk, PCCP 4" (where necessary)
- (M) Concrete Median, 4'
- (28) Underdrain, 6" Perforated Pipe
- (29) Tall Fescue Seed Mixture



HOBSON RD. – STATE BLVD. TO STELLHORN RD.

3 Varies from 0'–0" at Sta. 85+09.66 to 10'–5" Sta. 86+49.66
10'–5" from Sta. 86+49.66 to Sta. 88+48.00



UNDERDRAIN DETAIL

-- REVISIONS --			
NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.

10305 Dawsons Creek Blvd. Ste. A
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vsei@vsengineering.com
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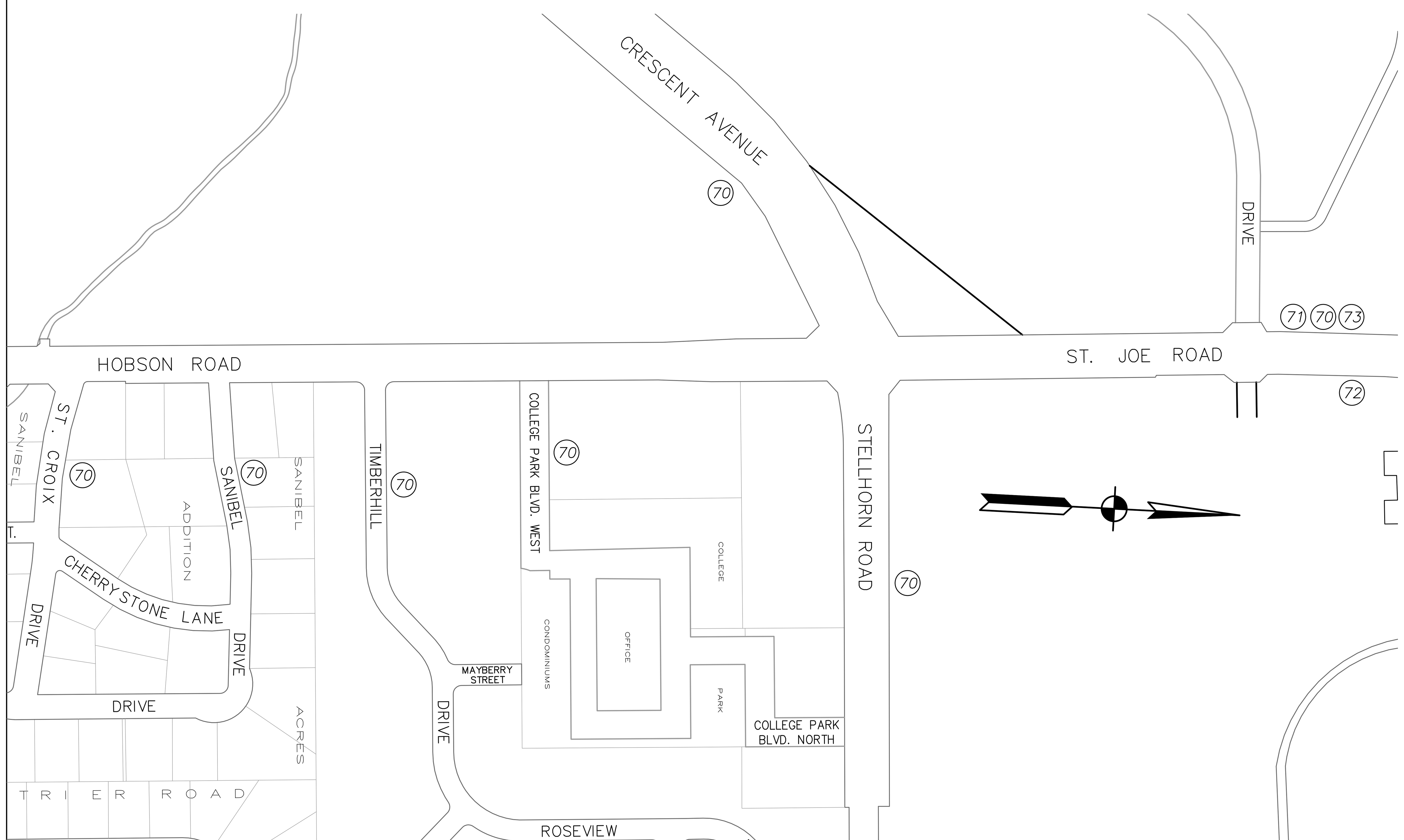
DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	H=1:20

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

TYPICAL SECTIONS

DRAWING NO.
TS1



GENERAL SIGNING SUMMARY

SIGN TYPE	SIGN TYPE
TYPE A CONSTRUCTION SIGNS	32 EA.
TYPE C CONSTRUCTION SIGNS	2 EA.
MOBILE CONSTRUCTION SIGNS*	6 SIGNS/DAY

*MOBILE CONSTRUCTION SIGNS: 6 SIGNS PER DAY X 45 DAYS = 270 DAYS

LEGEND

- (70) ROAD CONSTRUCTION AHEAD
- (71) ROAD CONSTRUCTION NEXT 1.5 MILES
- (72) END CONSTRUCTION
- (73) MAXIMUM PENALTY – XG20-7

-- REVISIONS --

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SCALE:	1:200

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

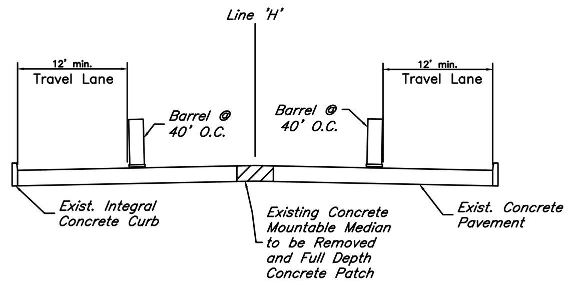
MAINTENANCE OF TRAFFIC - SIGNING PLAN

DRAWING NO.

MOT1

MOUNTABLE MEDIAN REMOVAL & PATCHING-PHASE 1A

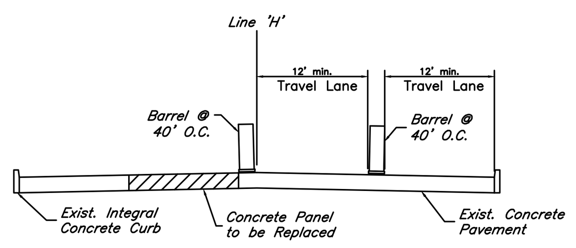
GENERAL LANE TAPER DIAGRAM



PHASE 1A TYPICAL SECTION
N.T.S.

LEFT-SOUTHBOUND LANE CONCRETE PANEL REPLACEMENT-PHASE 1B

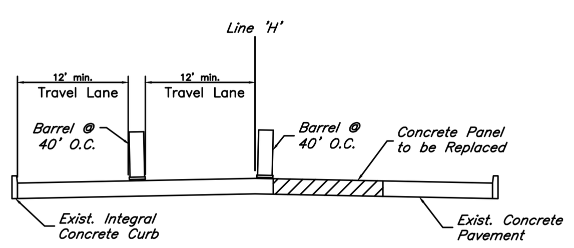
GENERAL LANE TAPER DIAGRAM



PHASE 1B TYPICAL SECTION
N.T.S.

LEFT-NORTHBOUND LANE CONCRETE PANEL REPLACEMENT-PHASE 1C

GENERAL LANE TAPER DIAGRAM



PHASE 1C TYPICAL SECTION
N.T.S.

NOTES:
1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.
4. Phase I shall consist of removal of the mountable center median and concrete patching, and removal and replacement of all deteriorated panels of concrete in the left northbound and left southbound travel lanes.

* = 150' for 30 MPH, 204' for 35 MPH, 267' for 40 MPH
** = 225' for 30 MPH, 306' for 35 MPH, 400' for 40 MPH

LEGEND
- FLASHING ARROW BOARD
- BARREL
- MOBILE CONSTRUCTION SIGN
- CONCRETE PANEL REPLACEMENT
- TRAVEL DIRECTION

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
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Fort Wayne, Indiana 46825
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DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	1:50

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.
MOT2

MAINTENANCE OF TRAFFIC-PHASE 2-1

NOTES:
1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.
4. Phase II shall consist of removing the southbound, right hand lane concrete necessary for the road diet and full depth concrete patching for the remaining southbound travel lane, and intermediate asphalt paving for the southbound bicycle lane and southbound vehicular travel lane.
5. Phase II shall also consist of removal and replacing the southbound lane concrete curb, removal and replacement of the concrete driveways along the west side of Hobson Rd., removal and replacement of the necessary sidewalk sections along the west side of Hobson Rd., and placement of the Concrete Center Curb, Type C.
6. Phase II at the intersection of Hobson Rd. and Vance Ave. will have lanes reduced to one lane each direction, signals are to be bagged, and the intersection will become a four way stop controlled sign intersection.

LEGEND
- FLASHING ARROW BOARD
- BARREL
- BAG SIGNAL
- BARREL STOP SIGN
- BARRICADE
- ROAD CLOSURE SIGN ASSEMBLY
- CONSTRUCTION AREA
- TRAVEL DIRECTION
- (48) TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN.

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

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JOB NO:	
SCALE:	1:50

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.
MOT3

MAINTENANCE OF TRAFFIC-PHASE 2-2

NOTES:

1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.
4. Phase II shall consist of removing the southbound, right hand lane concrete necessary for the road diet and full depth concrete patching for the remaining southbound travel lane and intermediate asphalt paving for the southbound bicycle lane and southbound vehicular travel lane.
5. Phase II shall also consist of removal and replacing the southbound lane concrete curb, removal and replacement of the concrete driveways along the west side of Hobson Rd., removal and replacement of the necessary sidewalk sections along the west side of Hobson Rd., placement of the Concrete Center Curb, Type C, and placement of the 2.5" of intermediate course asphalt for the southbound bicycle lane and southbound vehicular travel lane.
6. Phase II at the intersection of Hobson Rd. and Trier Rd. will have lanes reduced to one lane each direction, signals are to be bagged, and the intersection will become a four way stop controlled sign intersection.

LEGEND

- FLASHING ARROW BOARD
- BARREL
- BAG SIGNAL
- BARREL STOP SIGN
- BARRICADE
- ROAD CLOSURE SIGN ASSEMBLY
- CONSTRUCTION AREA
- TRAVEL DIRECTION
- (48) TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN.

-- REVISIONS --

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PROJECT MANAGER

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SCALE:	1:50

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

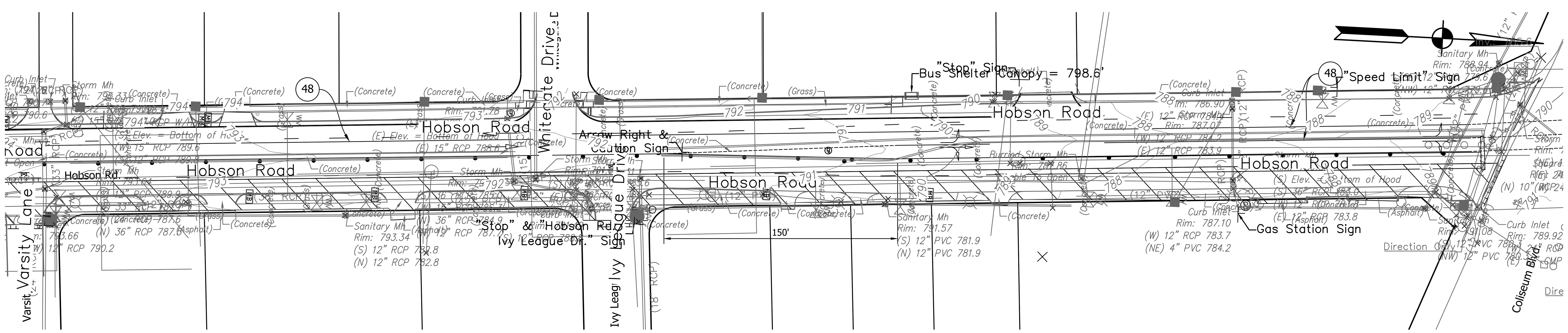
HOBSON ROAD REHABILITITATION

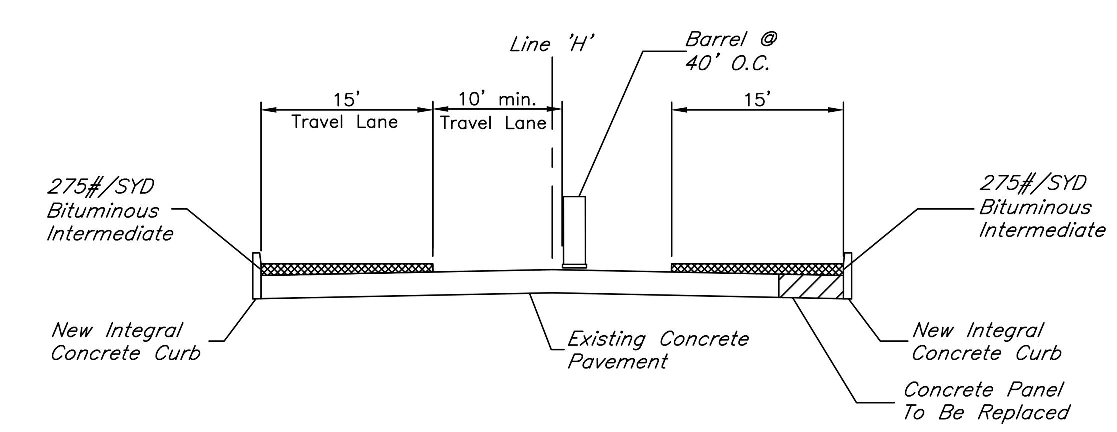
MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.

MOT4

MAINTENANCE OF TRAFFIC-PHASE 3-1





NOTES:

1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.
4. Phase III shall consist of removing the southbound, right hand lane concrete necessary for the road diet and full depth concrete patching for the remaining southbound travel lane, and intermediate asphalt for the northbound bicycle lane and northbound vehicular lane.
5. Phase III shall also consist of removal and replacing the northbound lane concrete curb, removal and replacement of the concrete driveways along the east side of Hobson Rd., removal and replacement of the necessary sidewalk sections along the east side of Hobson Rd., and placement of the Concrete Center Curb, Type C.
6. Phase III at the intersection of Hobson Rd. and Vance Ave. will have lanes reduced to one lane each direction, signals are to be bagged, and the intersection will become a four way stop controlled sign intersection.

LEGEND

- FLASHING ARROW BOARD
- BARREL
- BAG SIGNAL
- BARREL STOP SIGN
- BARRICADE
- ROAD CLOSURE SIGN ASSEMBLY
- CONSTRUCTION AREA
- TRAVEL DIRECTION
- (48) TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN.

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.

10305 Dawsons Creek Blvd. Ste. A
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Fax: (260) 489-6605

DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	1:50

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

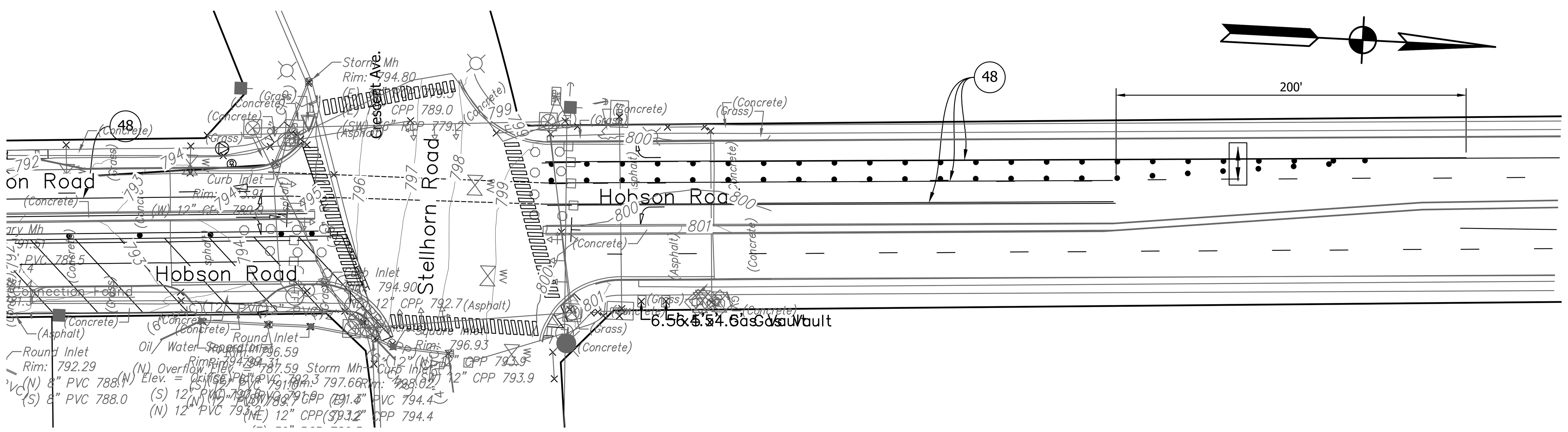
HOBSON ROAD REHABILITITATION

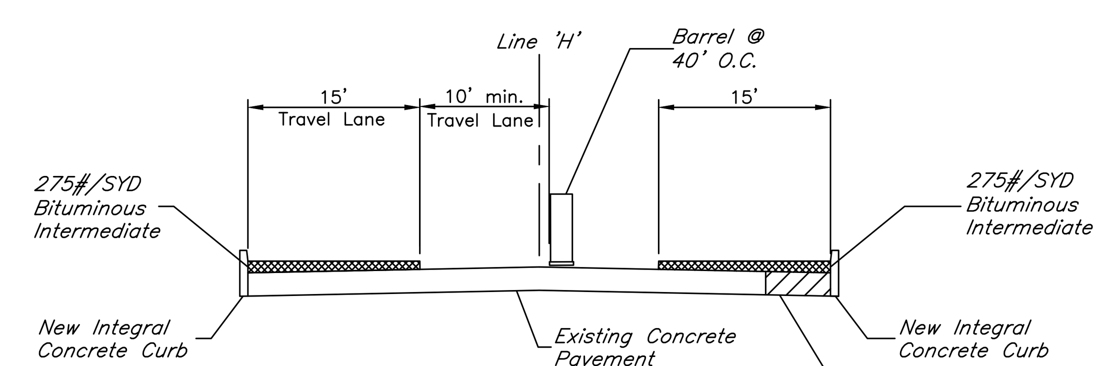
MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.

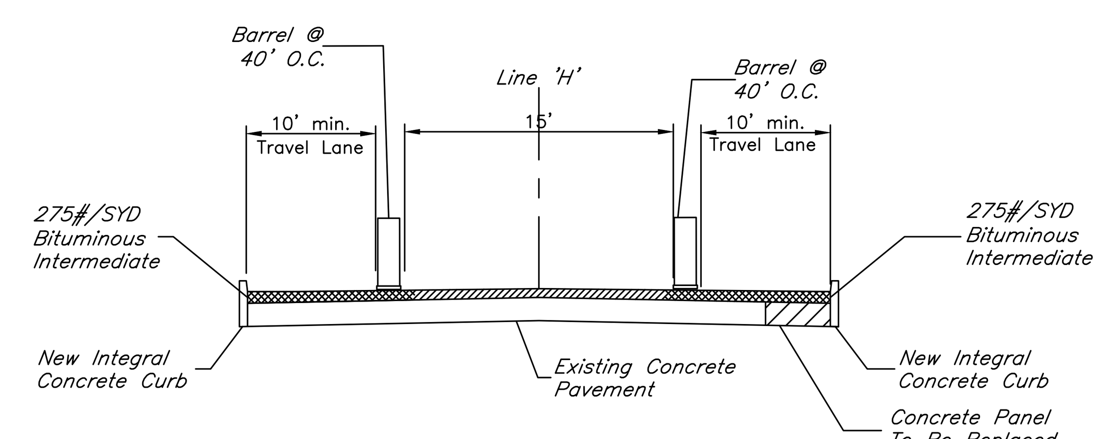
MOT5

MAINTENANCE OF TRAFFIC-PHASE 3-2





Phase 3–2



Phase 3–2a

NOTES:

1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.
4. Phase III shall consist of removing the southbound, right hand lane concrete necessary for the road diet and full depth concrete patching for the remaining southbound travel lane, and intermediate asphalt for the northbound bicycle lane and northbound vehicular lane.
5. Phase III shall also consist of removal and replacing the northbound lane concrete curb, removal and replacement of the concrete driveways along the east side of Hobson Rd., removal and replacement of the necessary sidewalk sections along the east side of Hobson Rd., and placement of the Concrete Center Curb, Type C.
6. Phase III at the intersection of Hobson Rd. and Trier Rd. will have lanes reduced to one lane each direction, signals are to be bagged, and the intersection will become a four way stop controlled sign intersection.

LEGEND

- FLASHING ARROW BOARD
- BARREL
- BAG SIGNAL
- BARREL STOP SIGN
- BARRICADE
- ROAD CLOSURE SIGN ASSEMBLY
- CONSTRUCTION AREA
- TRAVEL DIRECTION
- (48) TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN.

-- REVISIONS --

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SCALE:	1:50

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

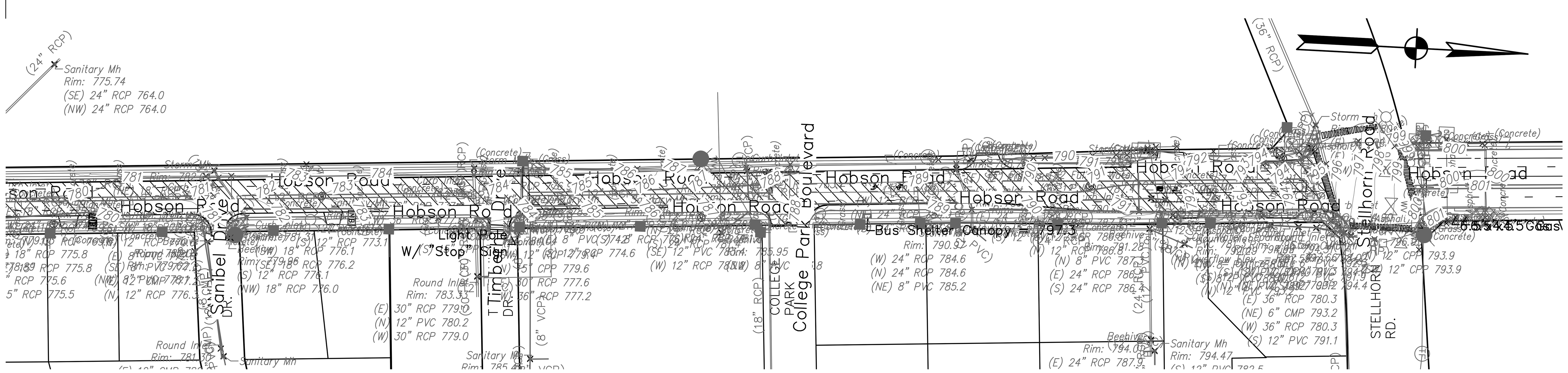
HOBSON ROAD REHABILITITATION

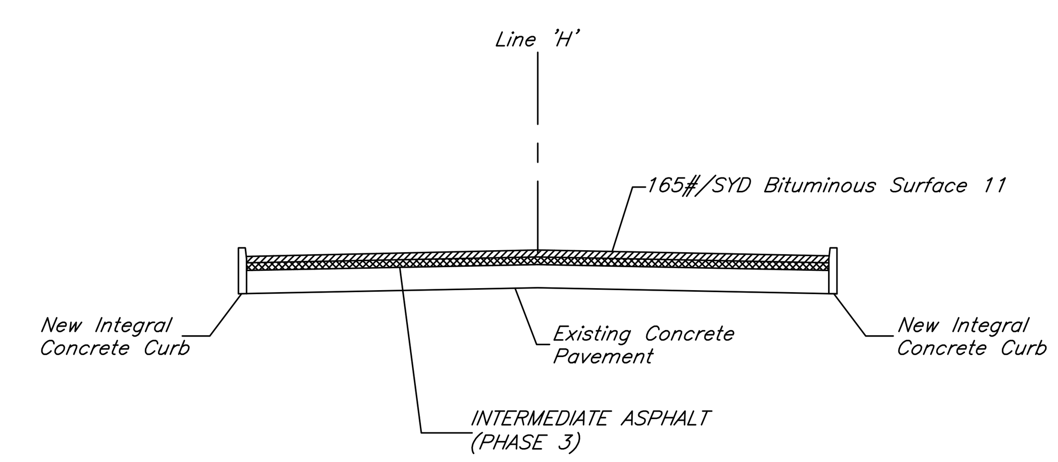
MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.

MOT6

MAINTENANCE OF TRAFFIC-PHASE 4





NOTES:
1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.
4. Phase IV shall consist of constructing 1 1/2" asphalt surface and permanent pavement markings.

LEGEND
- FLASHING ARROW BOARD
- BARREL
- CONE
- REMOVE EXISTING PAVEMENT
- TRAVEL DIRECTION
- (48) TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN.

-- REVISIONS --

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SCALE:	1:100

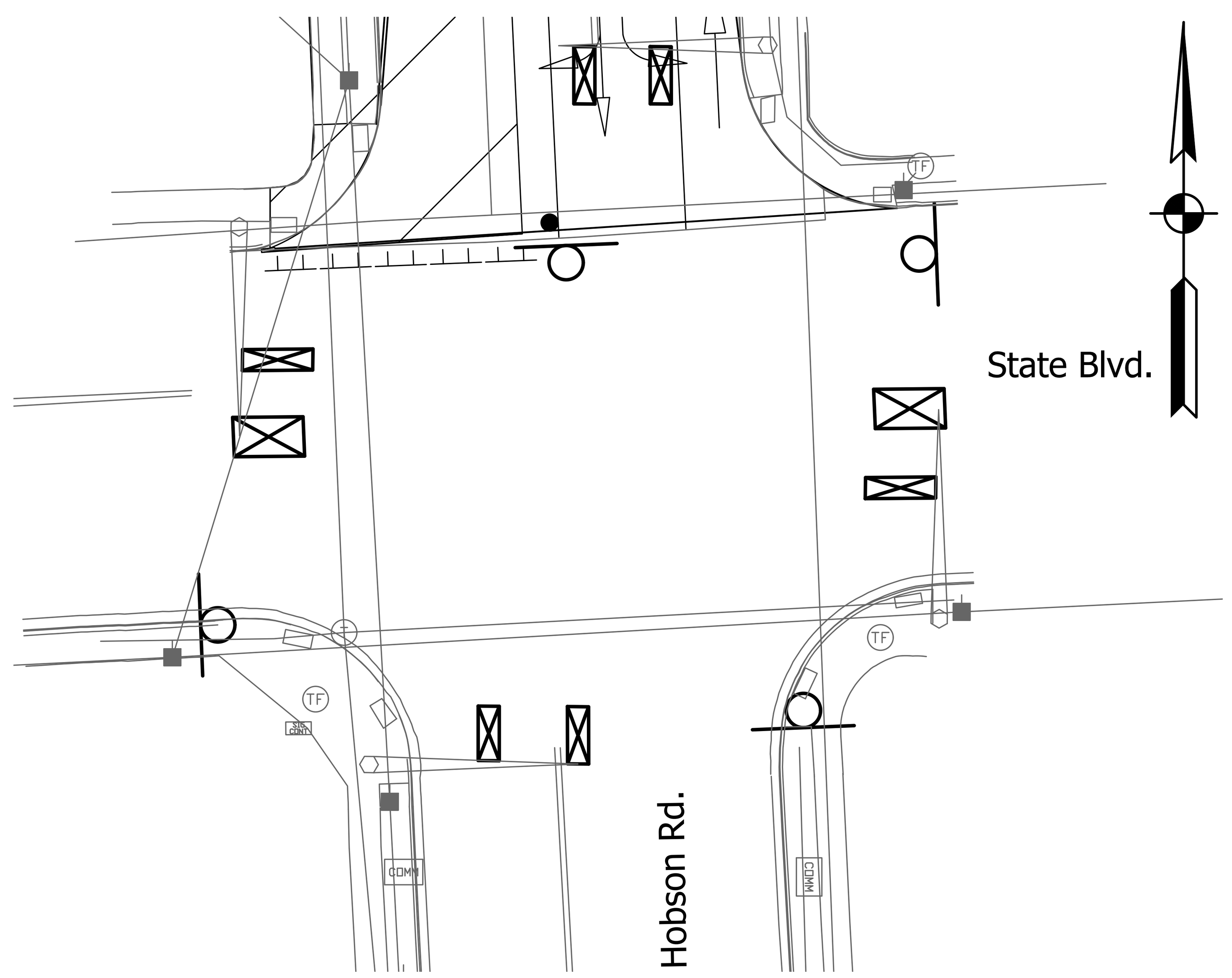
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

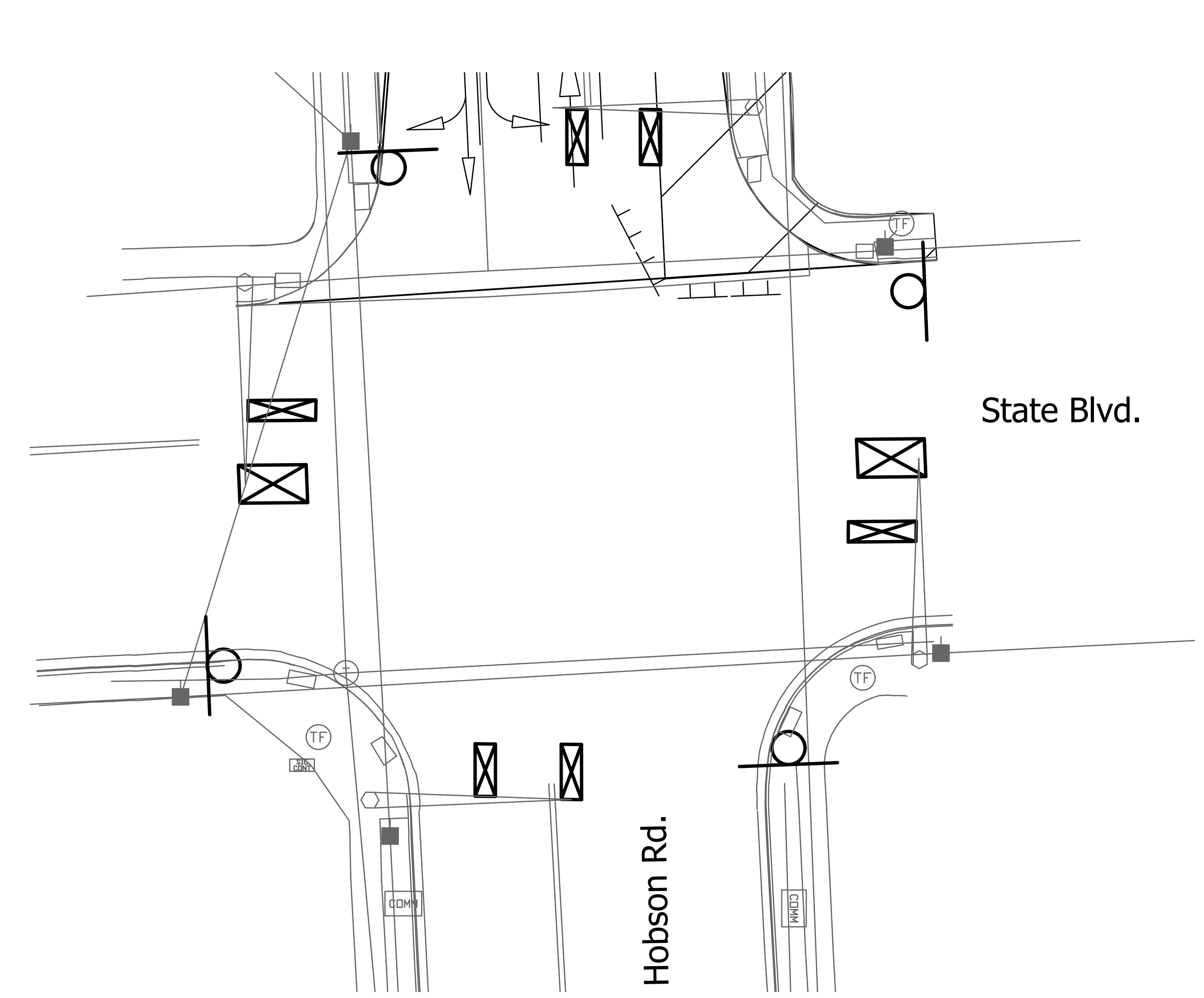
MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.
MOT7

TEMPORARY SIGNAL FOR STATE BLVD. PHASE 2



TEMPORARY SIGNAL FOR STATE BLVD. PHASE 3



NOTES:
1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.
4. During construction, the intersection of Hobson Rd. and State Blvd. shall have the existing traffic signal heads covered with bags and the intersection shall be a four way stop controlled intersection. Temporary Stop Sign assemblies shall be utilized.

LEGEND
- *TEMPORARY 4-SECTION SIGNAL HEAD*
- *TEMPORARY 3-SECTION SIGNAL HEAD*
- *FLASHING ARROW BOARD*
- *BARREL*
- *BAG SIGNAL*
- *BARREL STOP SIGN*
- *BARRICADE*
- *ROAD CLOSURE SIGN ASSEMBLY*
- *CONSTRUCTION AREA*
- *TRAVEL DIRECTION*
- 48 *TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN.*

-- REVISIONS --

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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.
MOT8

TEMPORARY SIGNAL FOR COLISEUM BLVD. PHASE 2

TEMPORARY SIGNAL FOR COLISEUM BLVD. PHASE 3

NOTES:
1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.

LEGEND
- *TEMPORARY 4-SECTION SIGNAL HEAD*
- *TEMPORARY 3-SECTION SIGNAL HEAD*
- *FLASHING ARROW BOARD*
- *BARREL*
- *BAG SIGNAL*
- *BARREL STOP SIGN*
- *BARRICADE*
- *ROAD CLOSURE SIGN ASSEMBLY*
- *CONSTRUCTION AREA*
- *TRAVEL DIRECTION*
- 48 *TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN.*

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SCALE:	1:20

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

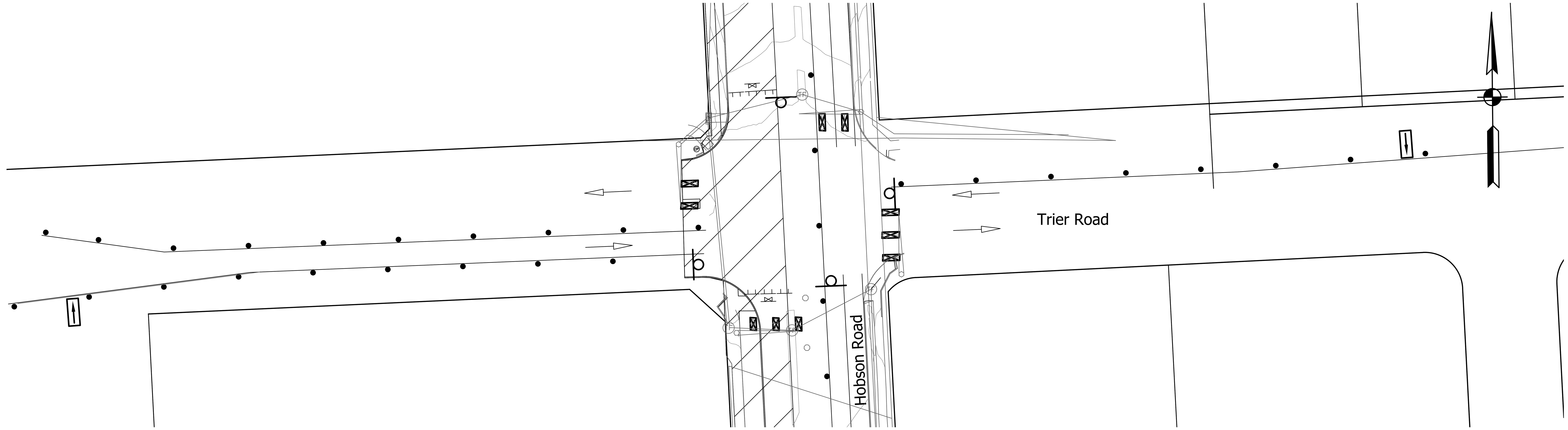
HOBSON ROAD REHABILITITATION

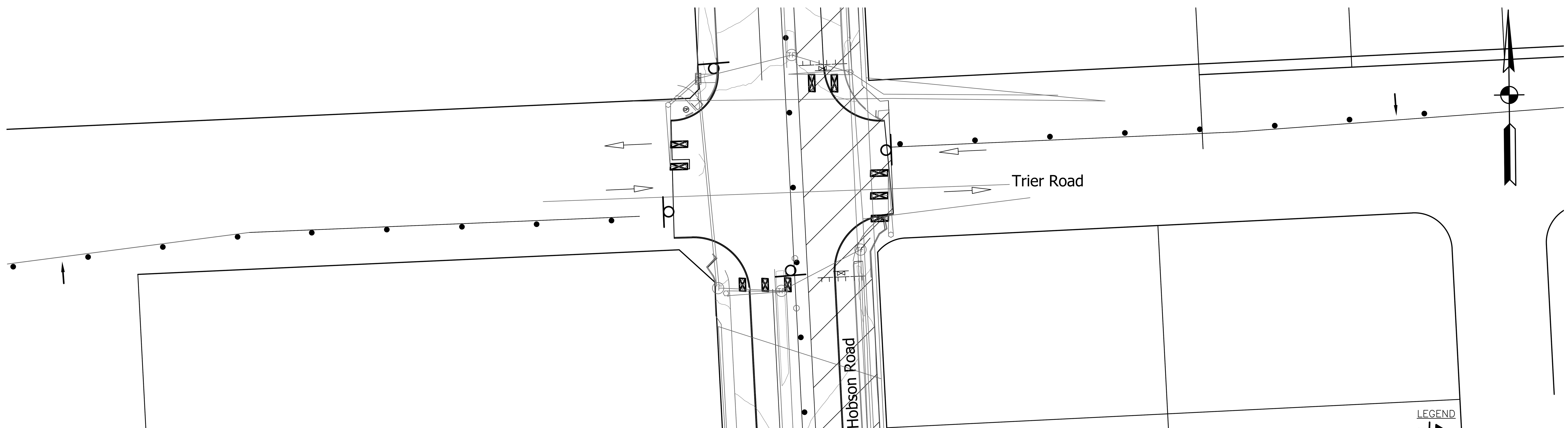
MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.

MOT9

TEMPORARY SIGNAL FOR TRIER ROAD PHASE 2





TEMPORARY SIGNAL FOR TRIER ROAD PHASE 3

NOTES:
1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.
4. During construction, the intersection of Hobson Rd. and Trier Rd. shall have the existing traffic signal heads covered with bags and the intersection shall be a four way stop controlled intersection. Temporary Stop Sign assemblies shall be utilized.

LEGEND
- TEMPORARY 4-SECTION SIGNAL HEAD
- TEMPORARY 3-SECTION SIGNAL HEAD
- FLASHING ARROW BOARD
- BARREL
- BAG SIGNAL
- BARREL STOP SIGN
- BARRICADE
- ROAD CLOSURE SIGN ASSEMBLY
- CONSTRUCTION AREA
- TRAVEL DIRECTION
- 48 TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN.

-- REVISIONS --

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SCALE:	1:30

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

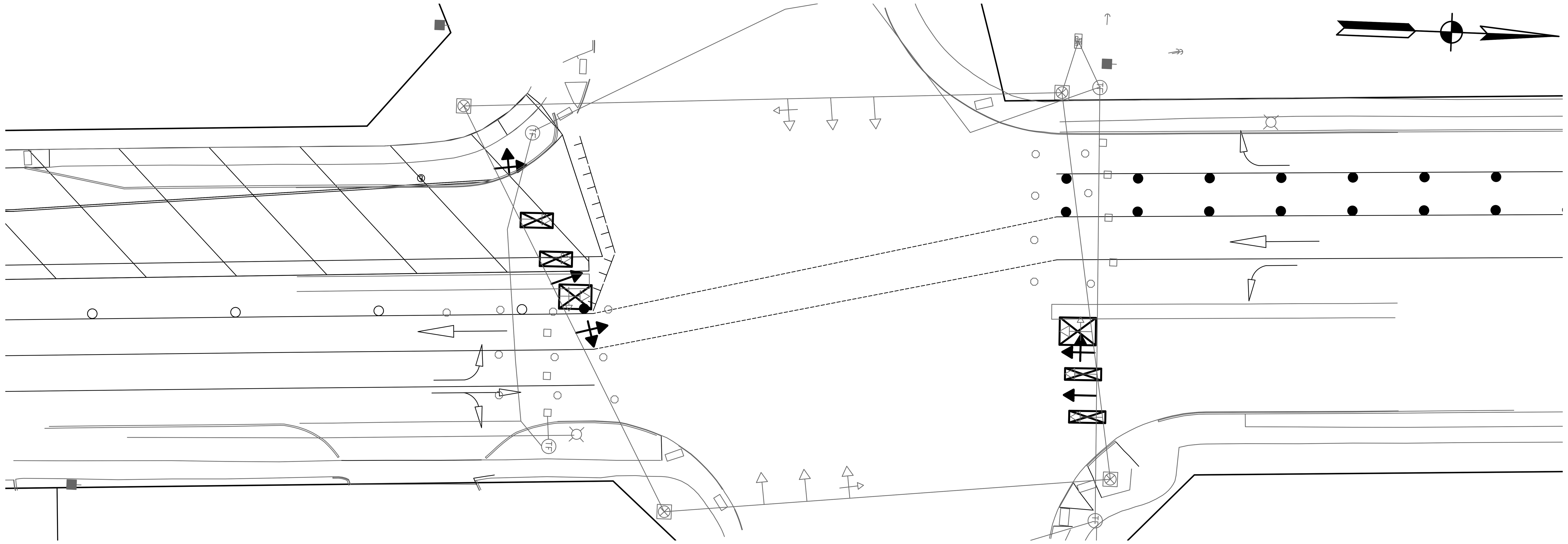
HOBSON ROAD REHABILITITATION

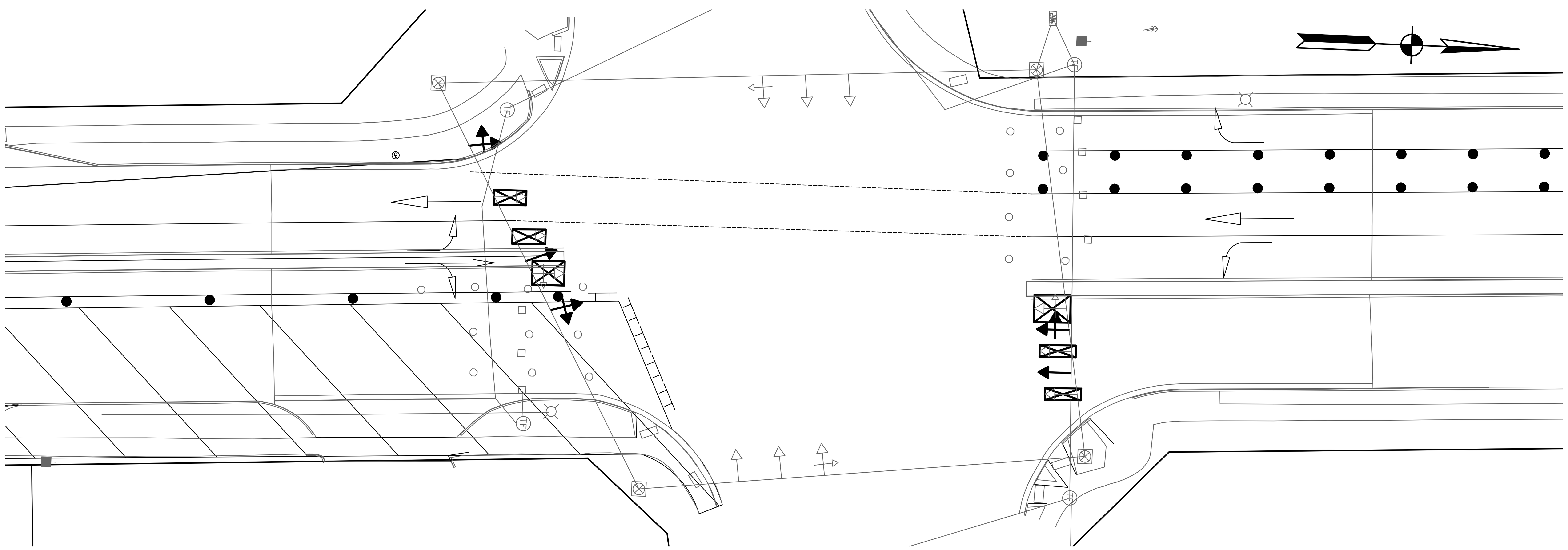
MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.

MOT10

TEMPORARY SIGNAL FOR STELLHORN ROAD PHASE 2





TEMPORARY SIGNAL FOR STELLHORN ROAD PHASE 3

NOTES:
1. Traffic Control shall meet INDOT requirements.
2. All travel lanes shall be a minimum 10' wide at all times.
3. At all time, during all phases of construction, there shall be at least one lane in each direction open to thru traffic.
4. Phase III shall consist of removing the southbound, right hand lane concrete necessary for the road diet and full depth concrete patching for the remaining southbound travel lane, and intermediate asphalt for the northbound bicycle lane and northbound vehicular lane.
5. Phase III shall also consist of removal and replacing the northbound lane concrete curb, removal and replacement of the concrete driveways along the east side of Hobson Rd., removal and replacement of the necessary sidewalk sections along the east side of Hobson Rd., and placement of the Concrete Center Curb, Type C.

LEGEND
- TEMPORARY 4-SECTION SIGNAL HEAD
- TEMPORARY 3-SECTION SIGNAL HEAD
- FLASHING ARROW BOARD
- BARREL
- BAG SIGNAL
- BARREL STOP SIGN
- BARRICADE
- ROAD CLOSURE SIGN ASSEMBLY
- CONSTRUCTION AREA
- TRAVEL DIRECTION
- 48 TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN.

-- REVISIONS --			
NO.	DATE	DESCRIPTION	REVISED BY

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PROJECT MANAGER

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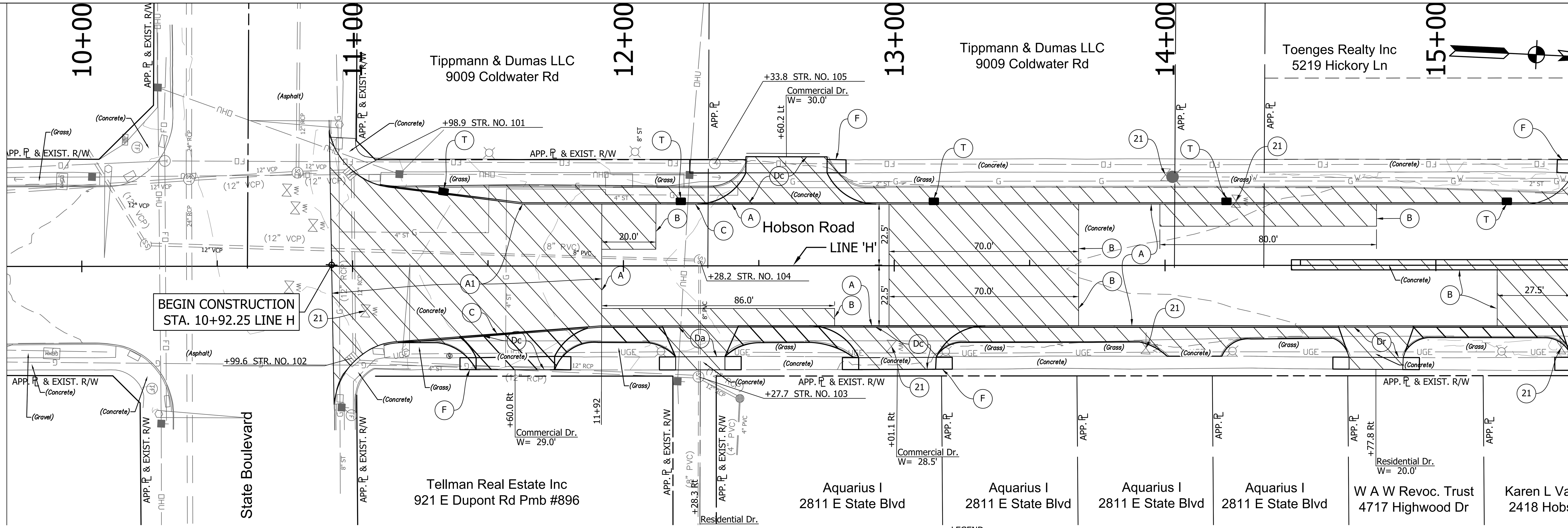
JOB NO:	
SCALE:	1:20

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

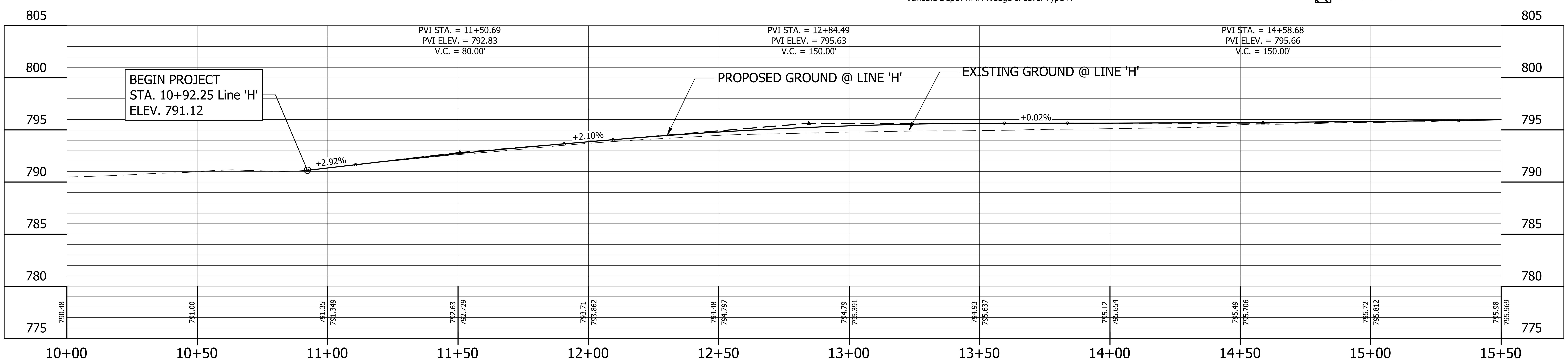
MAINTENANCE OF TRAFFIC PLAN

DRAWING NO.
MOT11



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
- (Dr) Residential Drive Approach - PCCP, 6"
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE – LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

-- REVISIONS --			
NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

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SCALE:	H=1:20 V=1:5

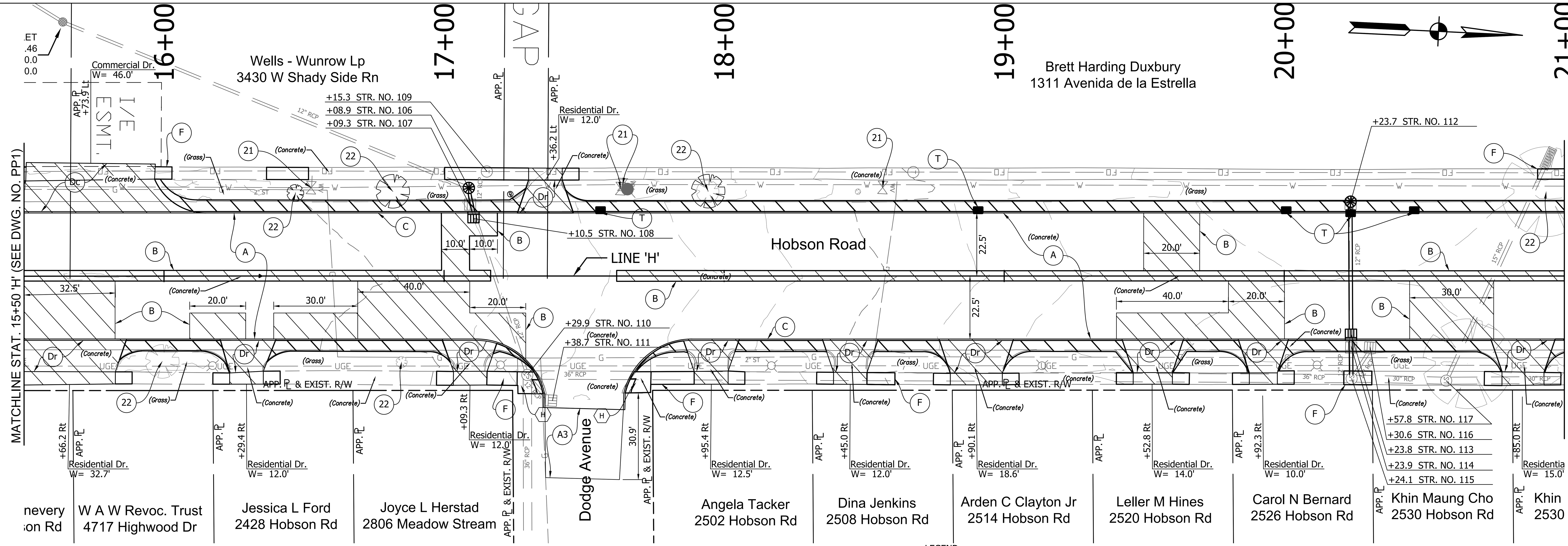
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

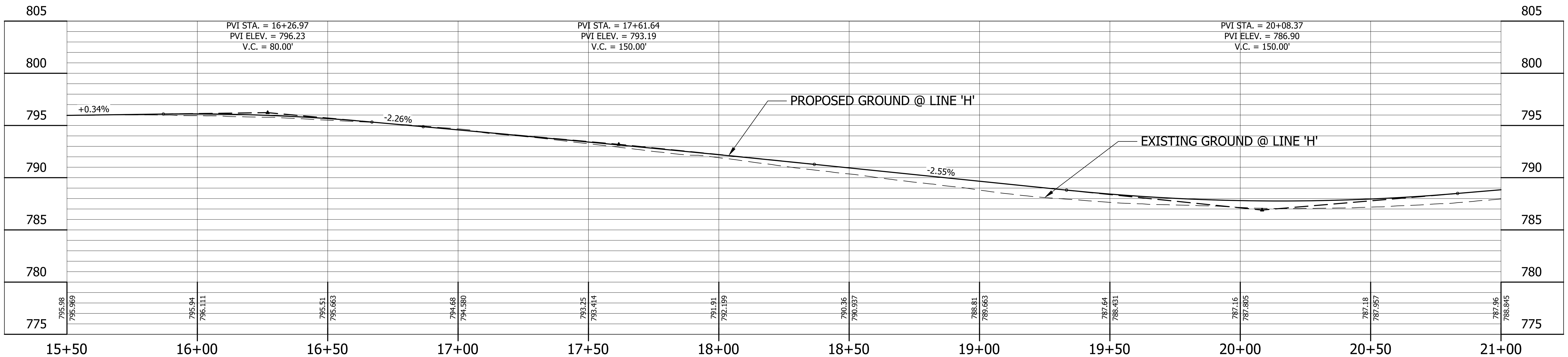
DRAWING NO.

PP1



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
- (Dr) Residential Drive Approach - PCCP, 6"
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE - LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

NO.	DATE	DESCRIPTION	REVISED BY

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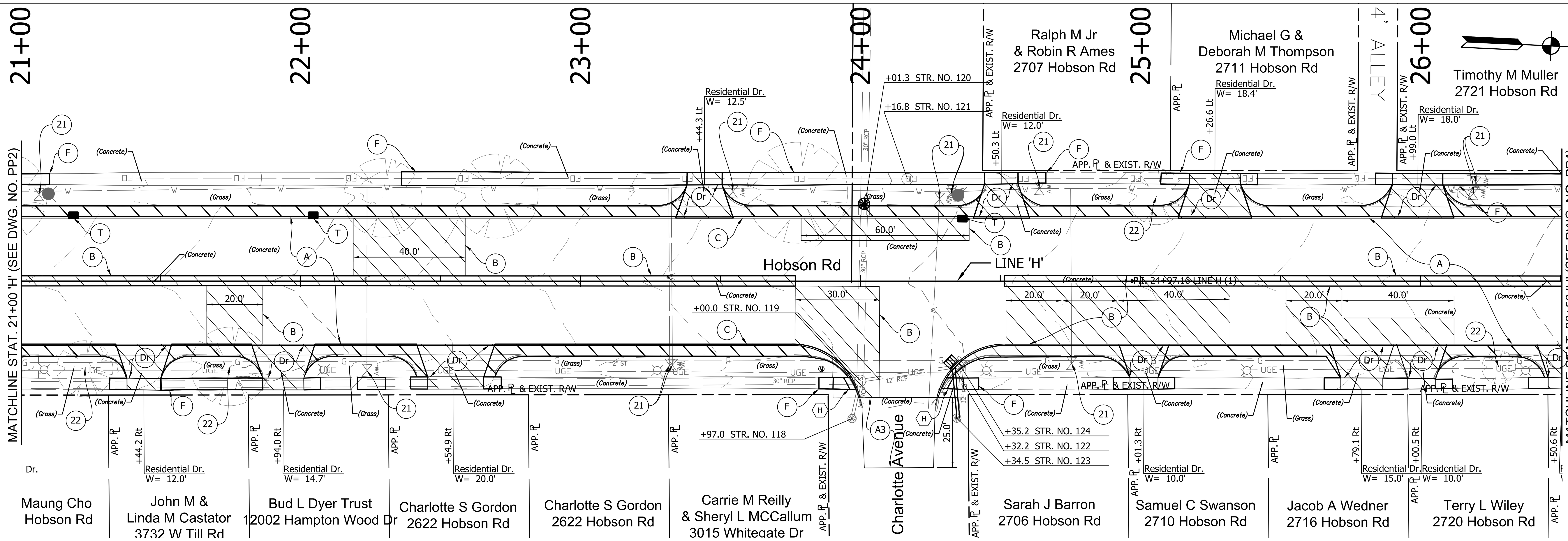
JOB NO:	
SCALE:	H=1:20 V=1:5

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

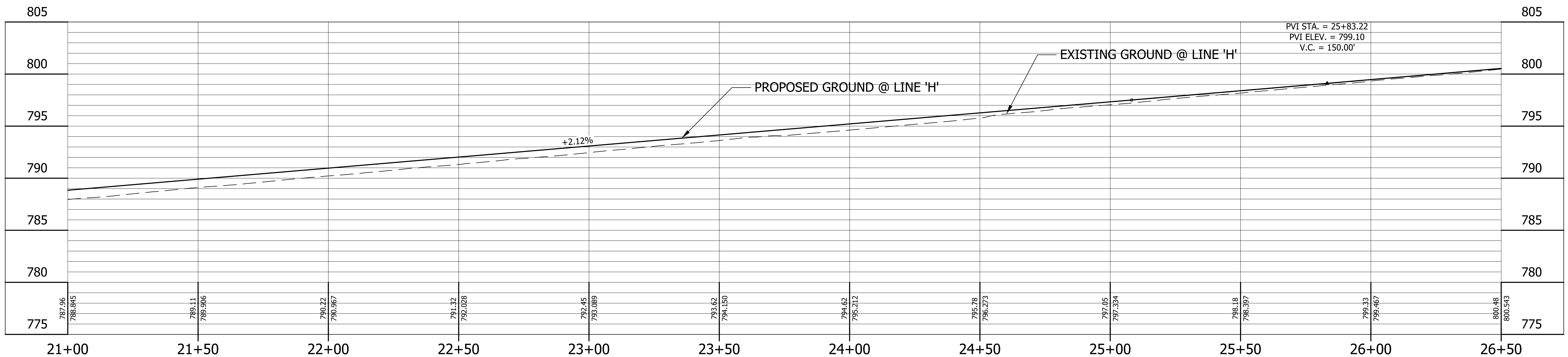
PLAN & PROFILE SHEET, LINE H

DRAWING NO.
PP2



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
- (Dr) Residential Drive Approach - PCCP, 6"
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE – LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

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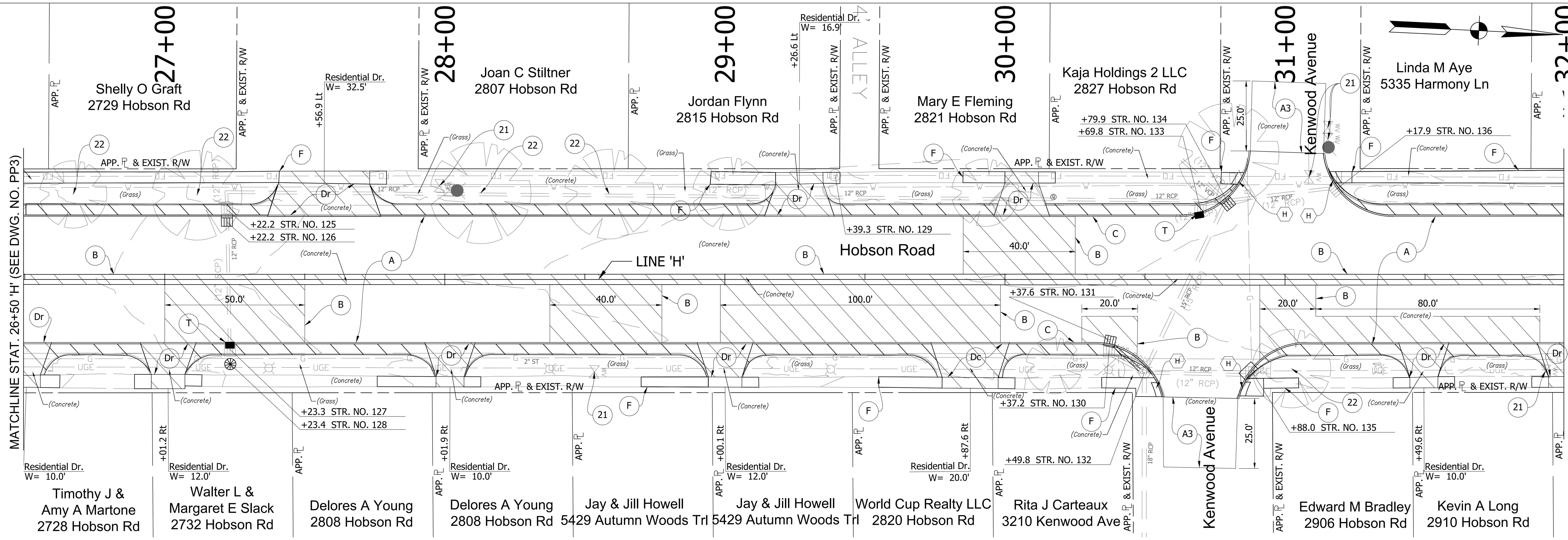
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

DRAWING NO.

PP3



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
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- (Da) Alley Approach
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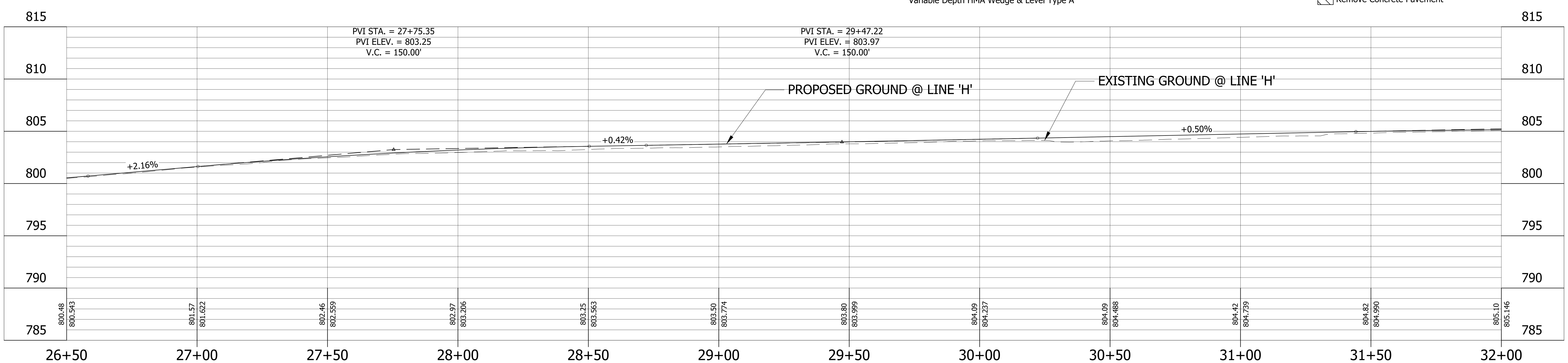
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE - LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.

10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
www.vsengineering.com
Phone: (260) 489-6635
Fax: (260) 489-6605

DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	H=1:20 V=1:5

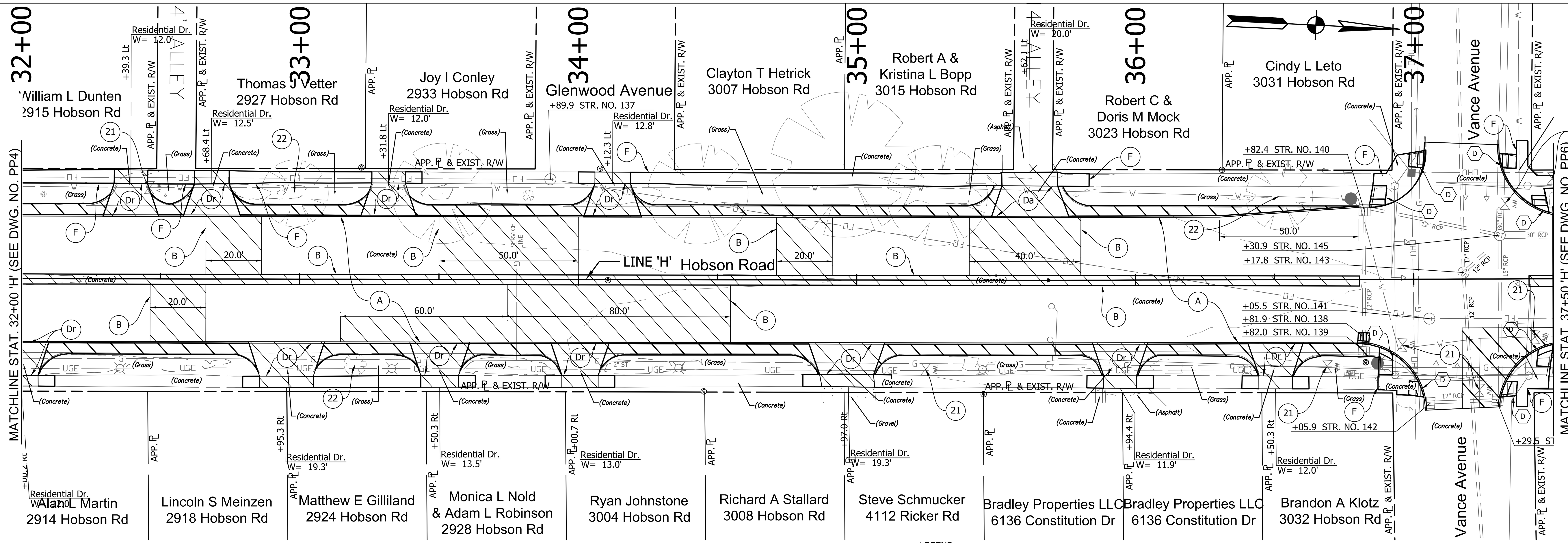
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

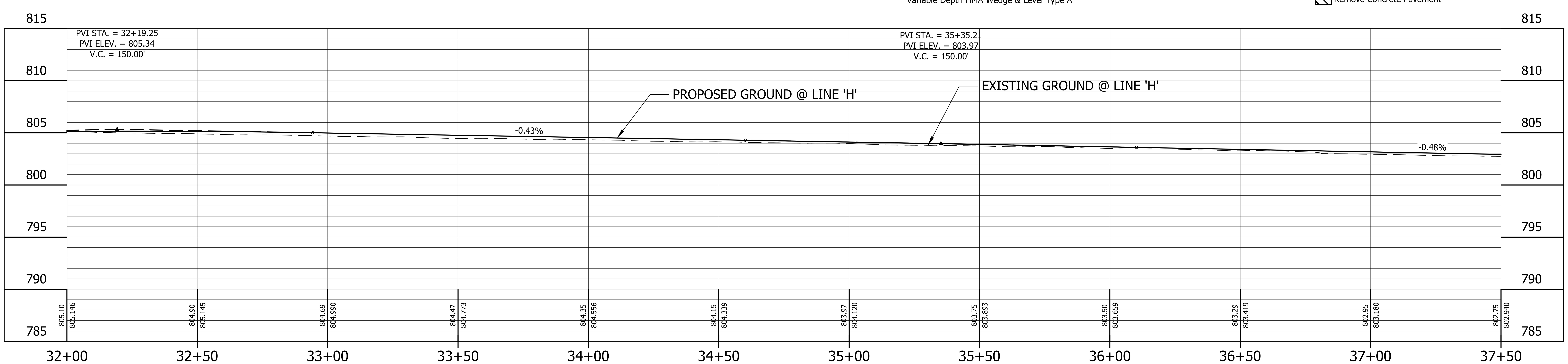
DRAWING NO.

PP4



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
- (Dr) Residential Drive Approach - PCCP, 6"
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE – LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1 =5'

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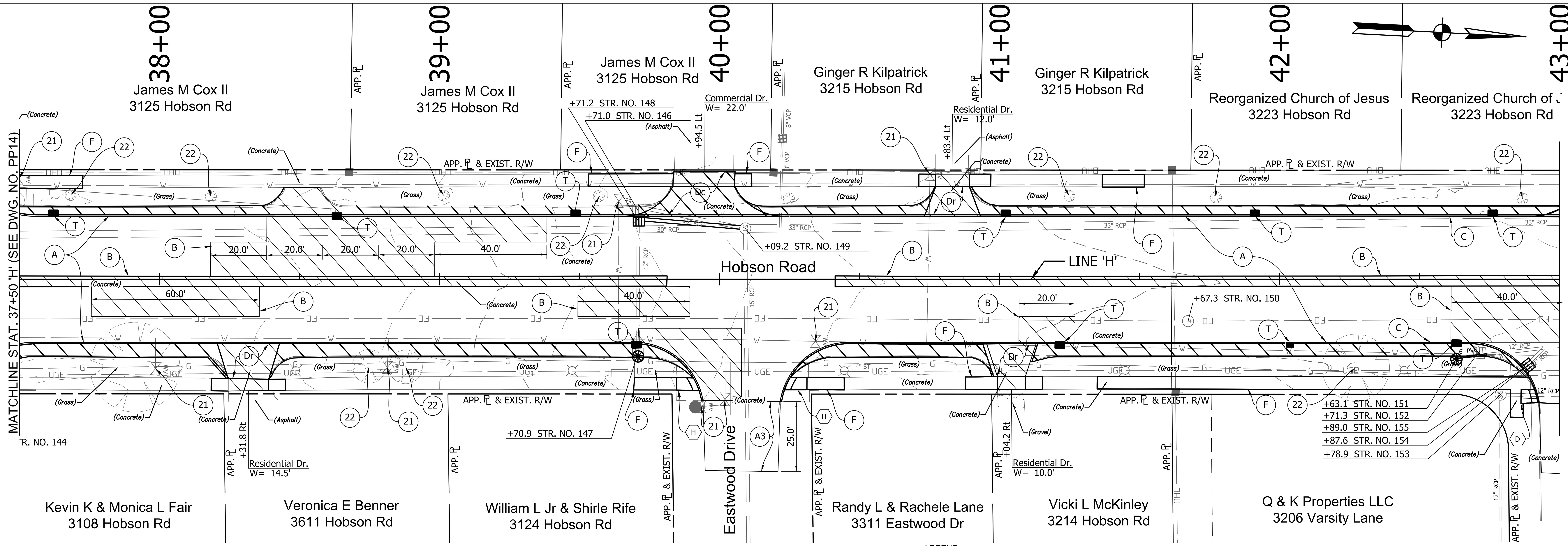
PLAN & PROFILE SHEET, LINE H

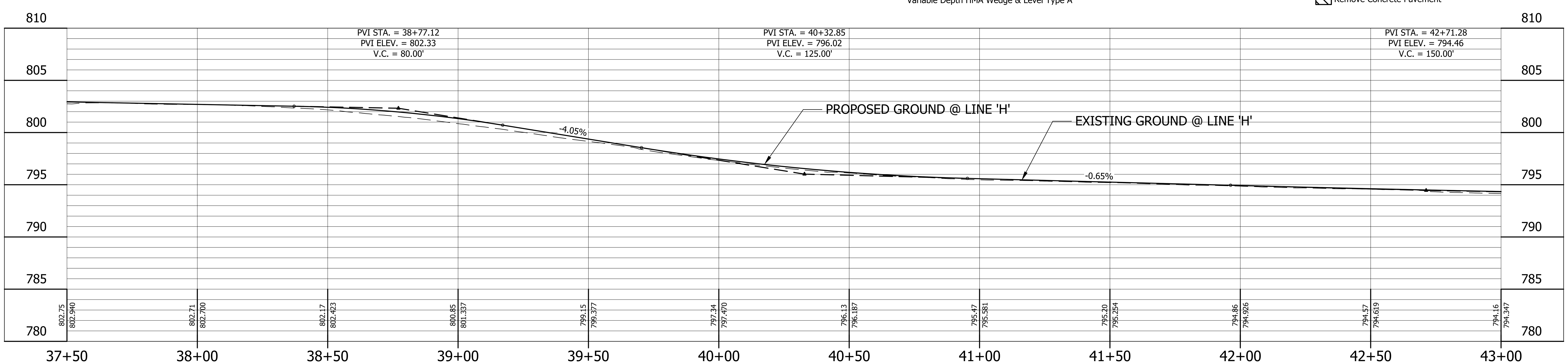
DRAWING NO.

PP5



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
- (Dr) Residential Drive Approach - PCCP, 6"
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE - LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

-- REVISIONS --

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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

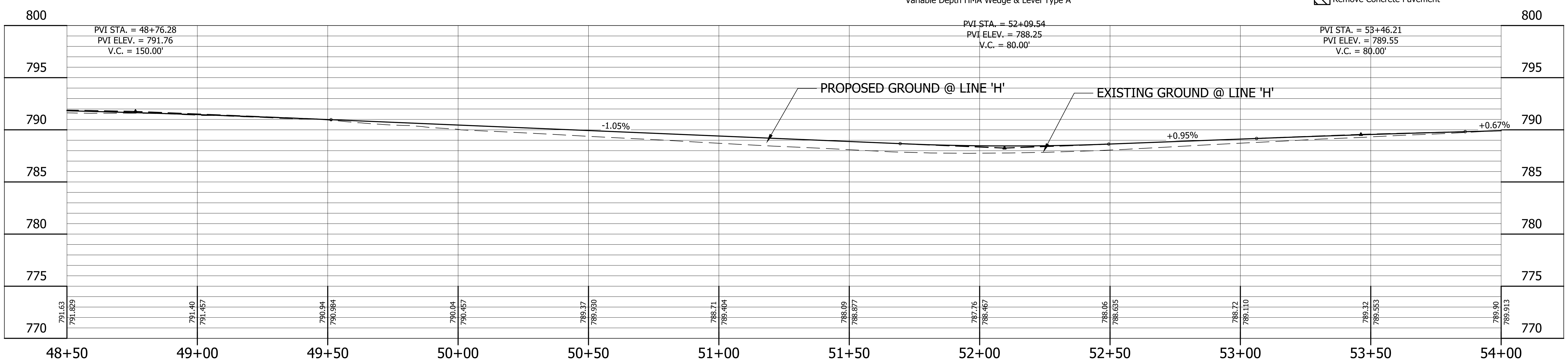
HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

DRAWING NO.
PP6

LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
- (Dr) Residential Drive Approach - PCCP, 6"
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE - LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1 =5'

-- REVISIONS --

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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

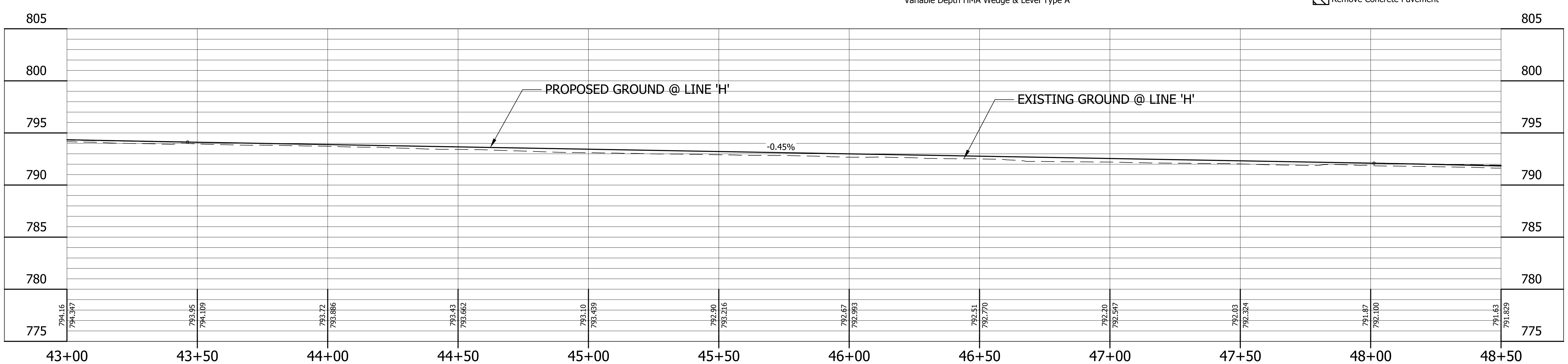
HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

DRAWING NO.
PP8

LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
- (Dr) Residential Drive Approach - PCCP, 6"
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE - LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1 =5'

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

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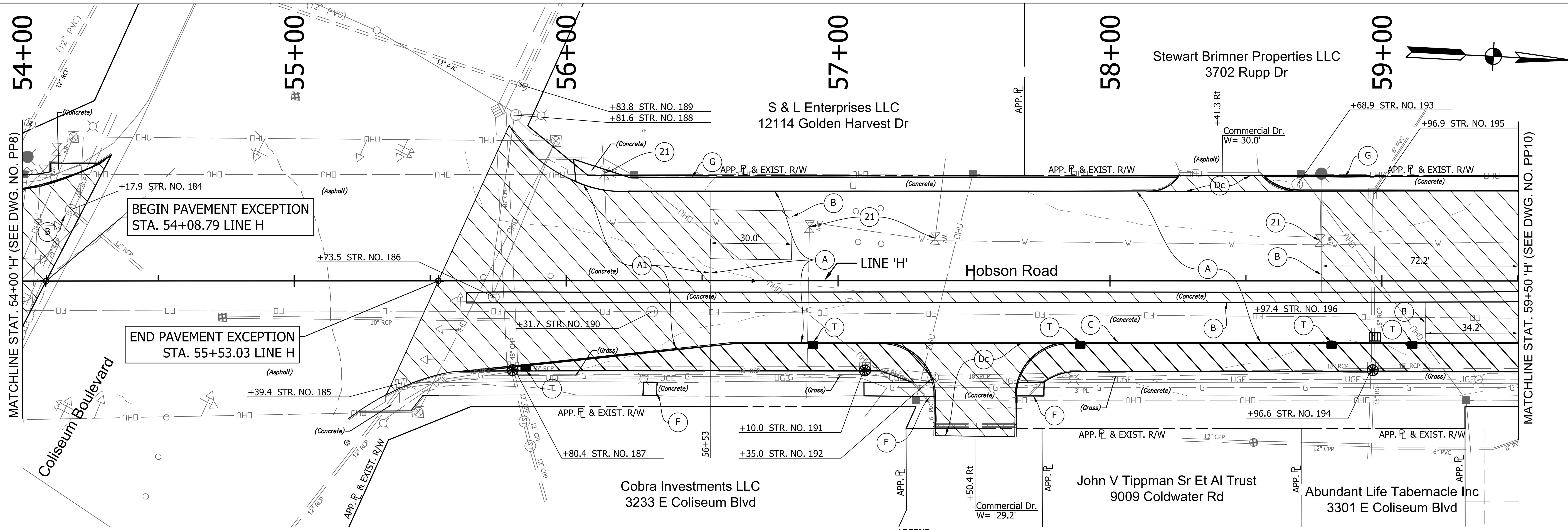
HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

DRAWING NO.

PP7



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
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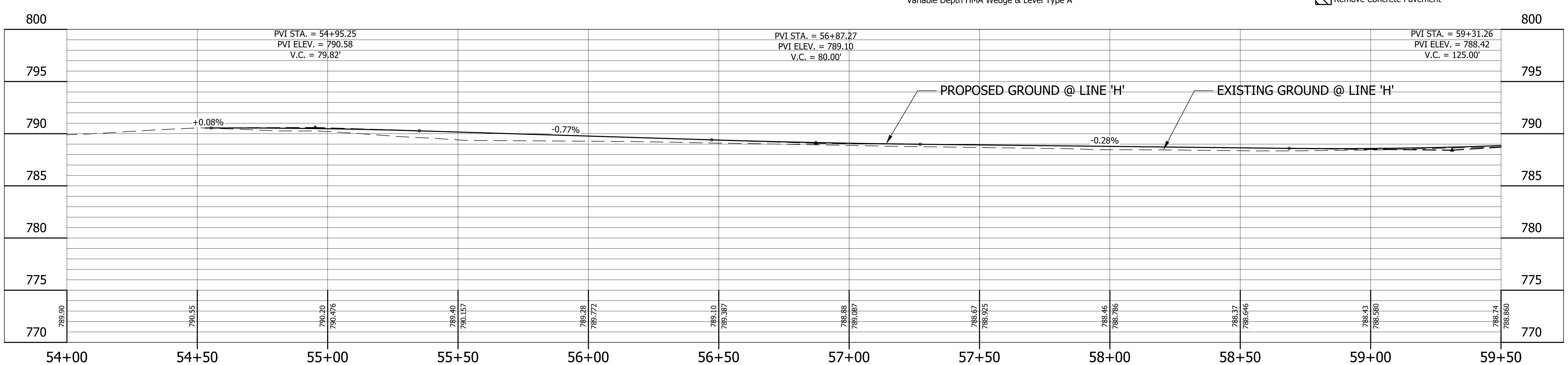
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE – LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

-- REVISIONS --			
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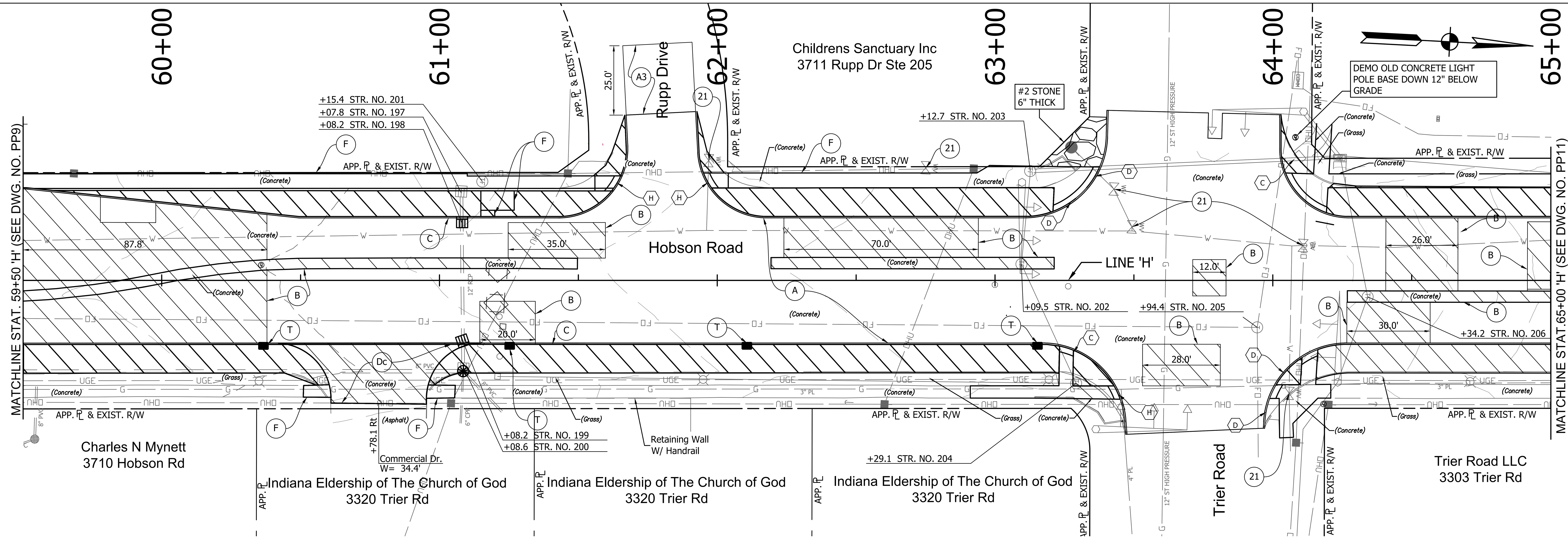
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

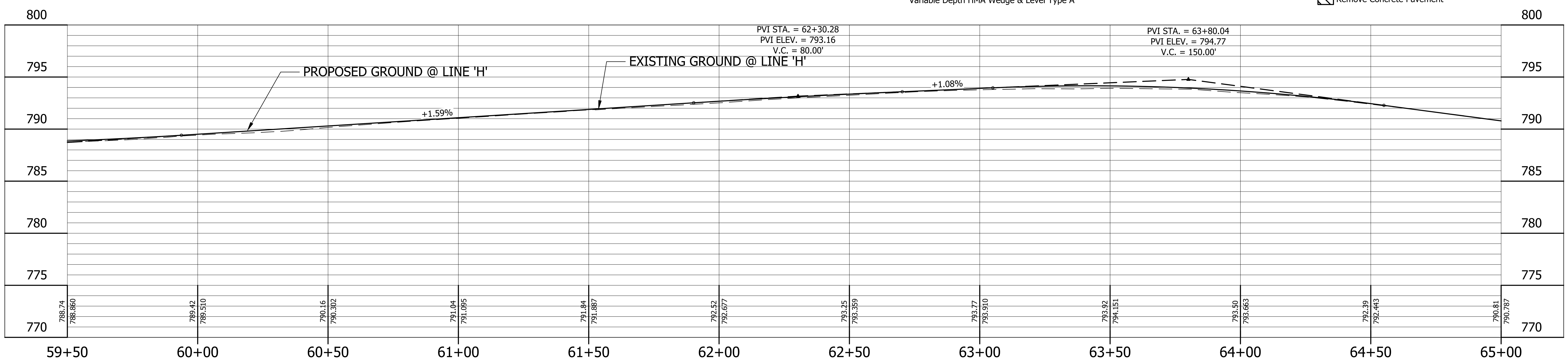
PLAN & PROFILE SHEET, LINE H

DRAWING NO.
PP9



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
- (Dr) Residential Drive Approach - PCCP, 6"
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE – LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

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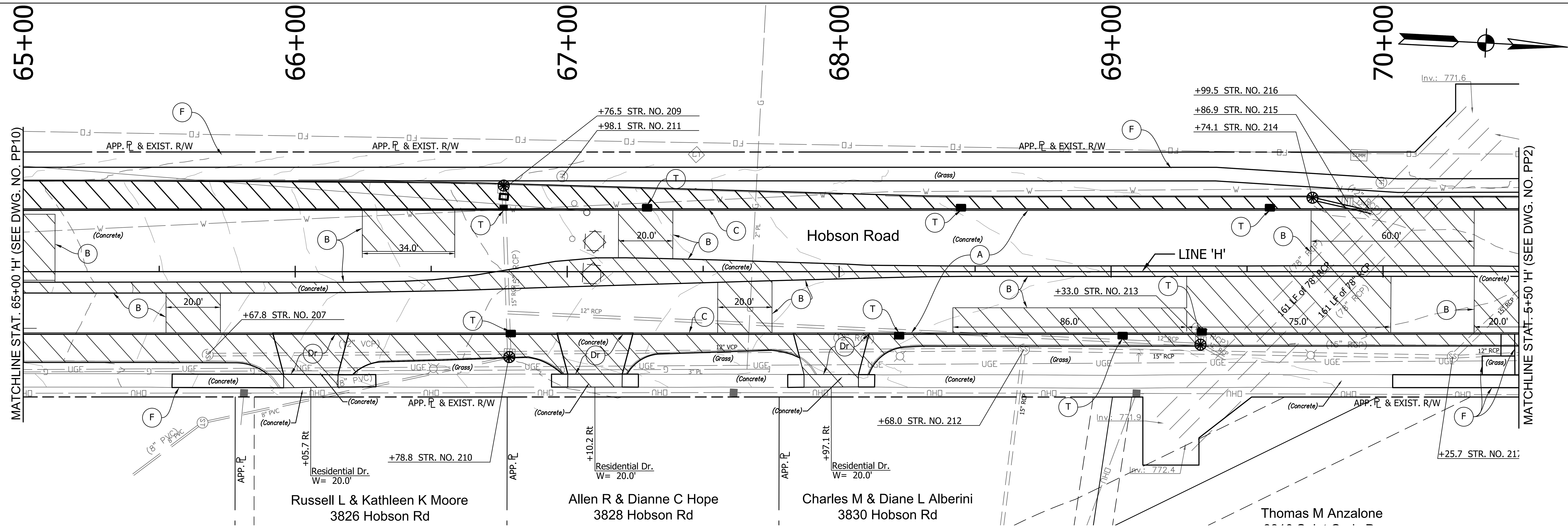
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

DRAWING NO.
PP10



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
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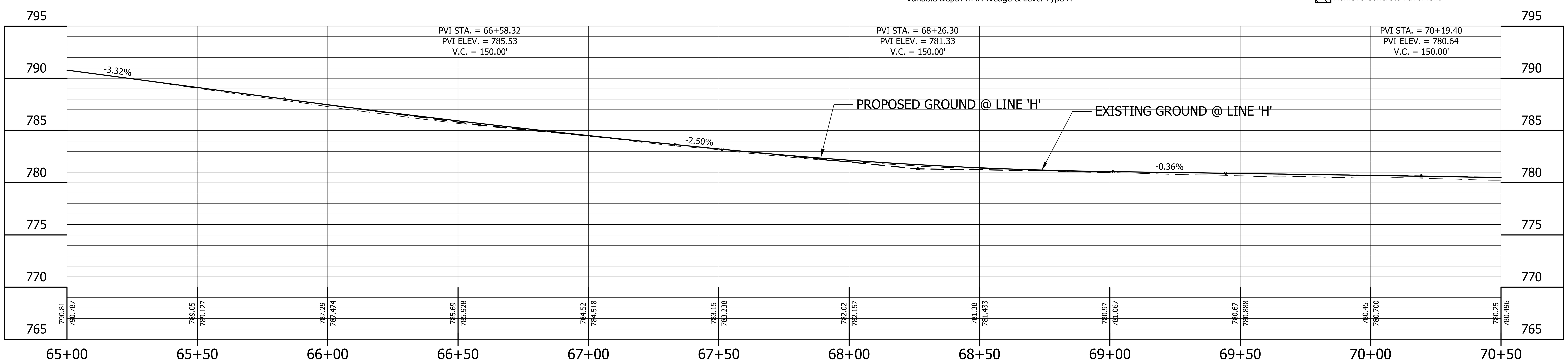
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE - LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1 =5'

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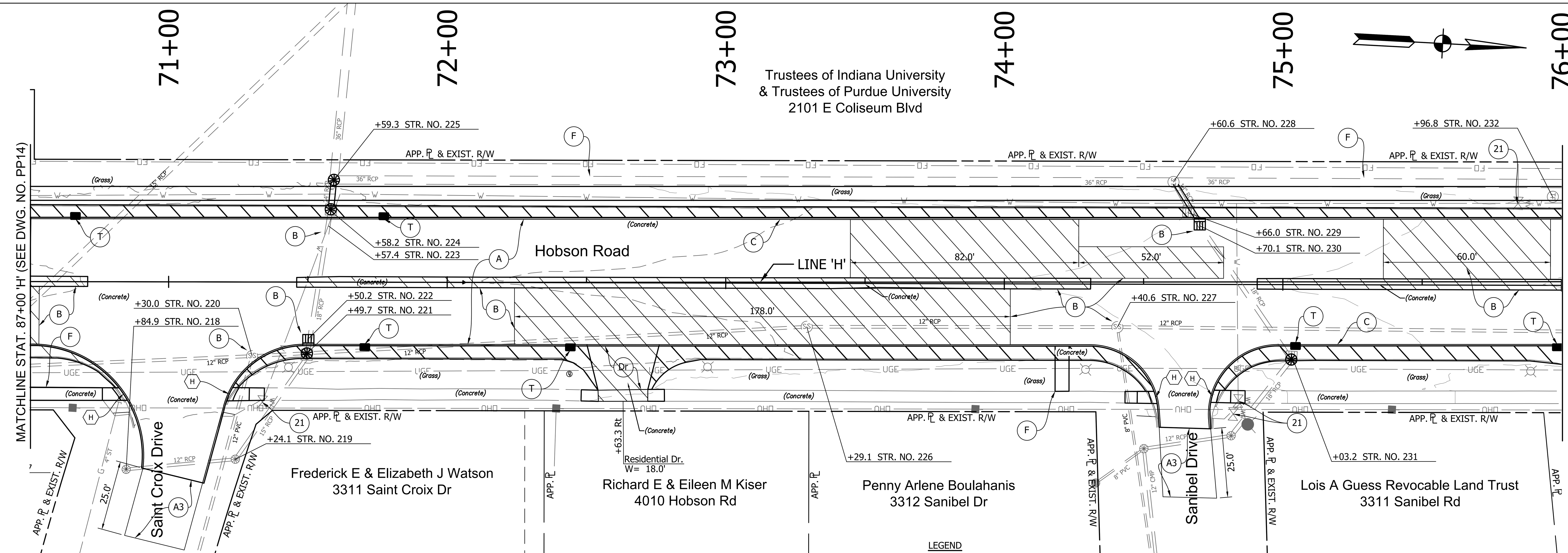
SCALE:	H=1:20 V=1:5

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

DRAWING NO.
PP11



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
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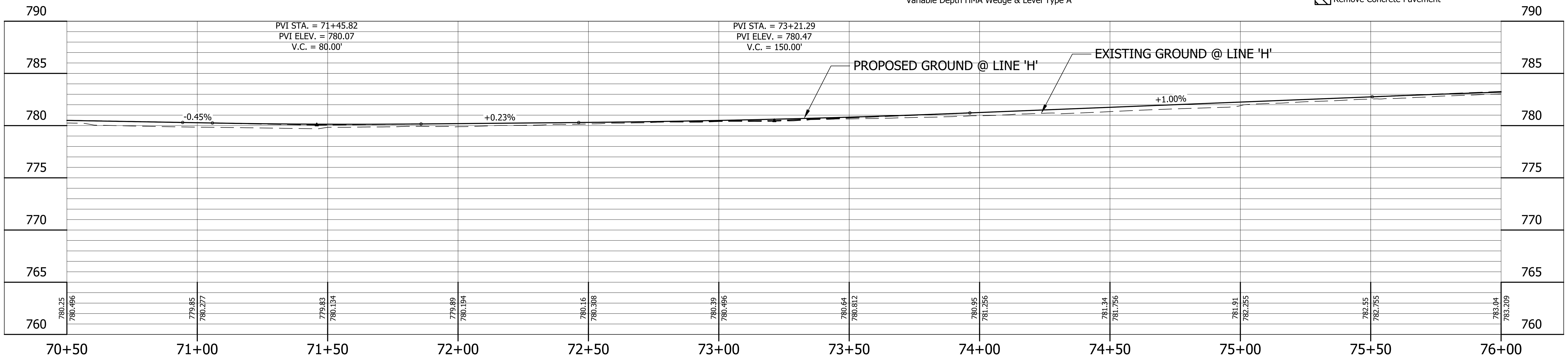
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE - LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

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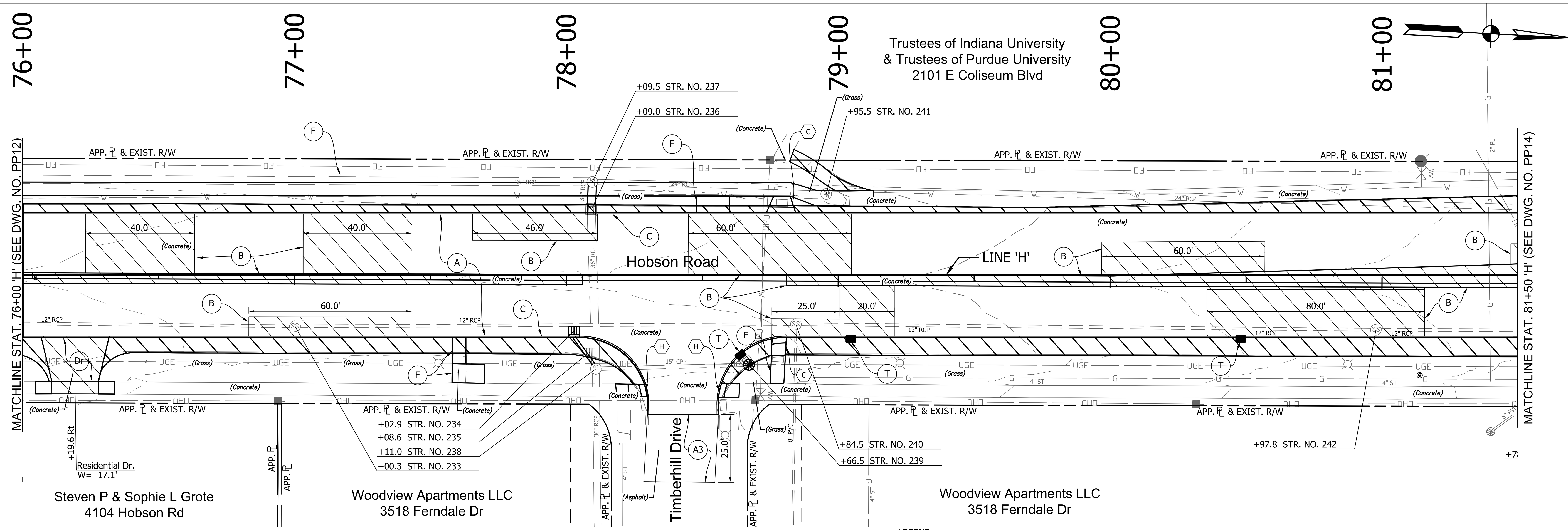
HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

DRAWING NO.
PP12



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
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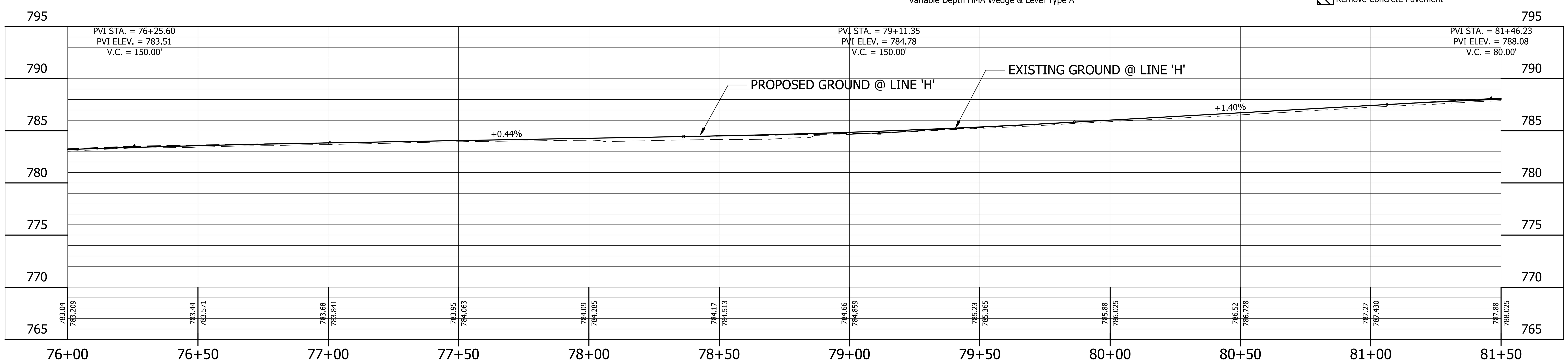
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE – LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

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CITY OF FORT WAYNE
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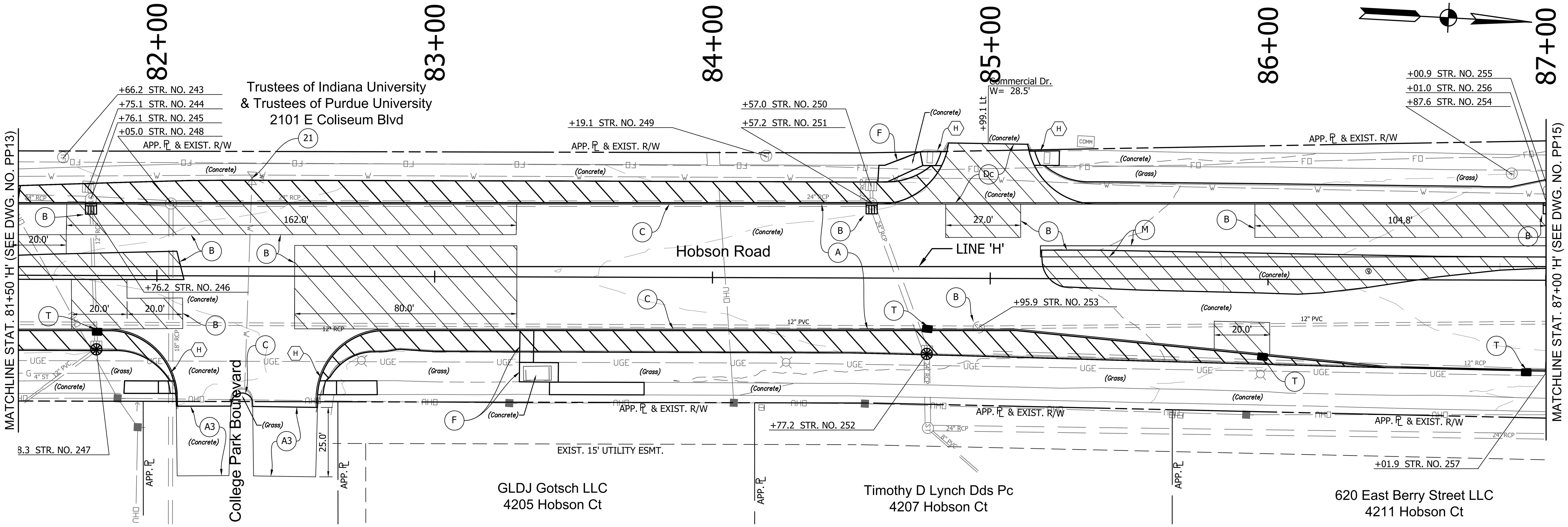
HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

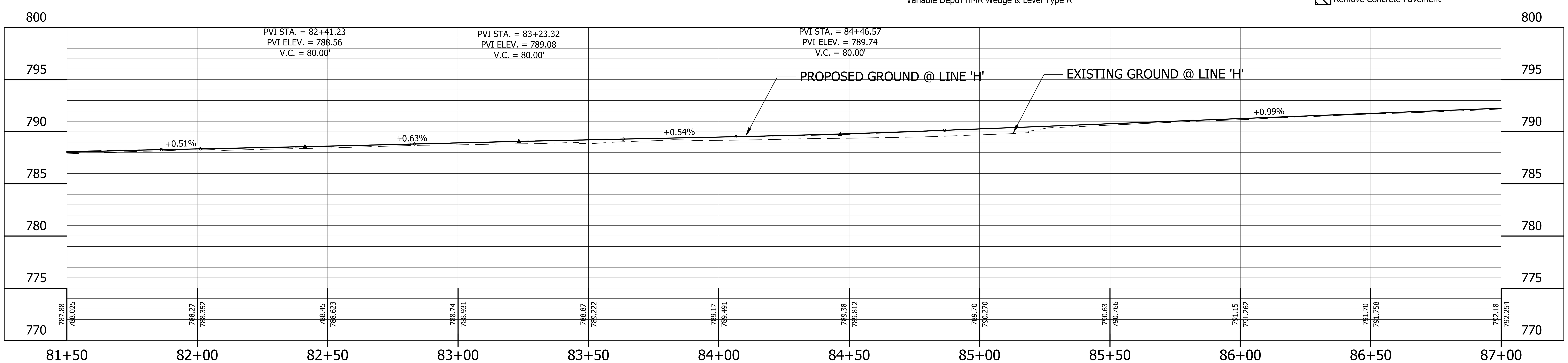
DRAWING NO.

PP13



LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A2) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
- (A3) Variable Depth Milling 165#/SYD 9.5mm Surface Type A on Variable Depth HMA Wedge & Level Type A
- (B) Concrete Patching, 10"
- (C) Concrete Curb, Type III
- (Da) Alley Approach
- (Dc) Commercial Drive Approach - PCCP, 9"
- (Dr) Residential Drive Approach - PCCP, 6"
- (F) Sidewalk, PCCP 4"
- (G) Curbface Sidewalk, PCCP 4"
- (M) Concrete Median, 4'
- (T) Concrete Curb Turnout
- (20) Adjust Casting To Grade
- (21) Adjust Water Valve To Grade
- (22) Remove Tree
- (26) Sodding, Nursery
- (*) Curb Ramp, Type '*'
- Remove Concrete Pavement



PROFILE - LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1" =5'

-- REVISIONS --			
NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION Prefinal Plans

VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
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Phone: (260) 489-6635
Fax: (260) 489-6605

DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	H=1:20 V=1:5

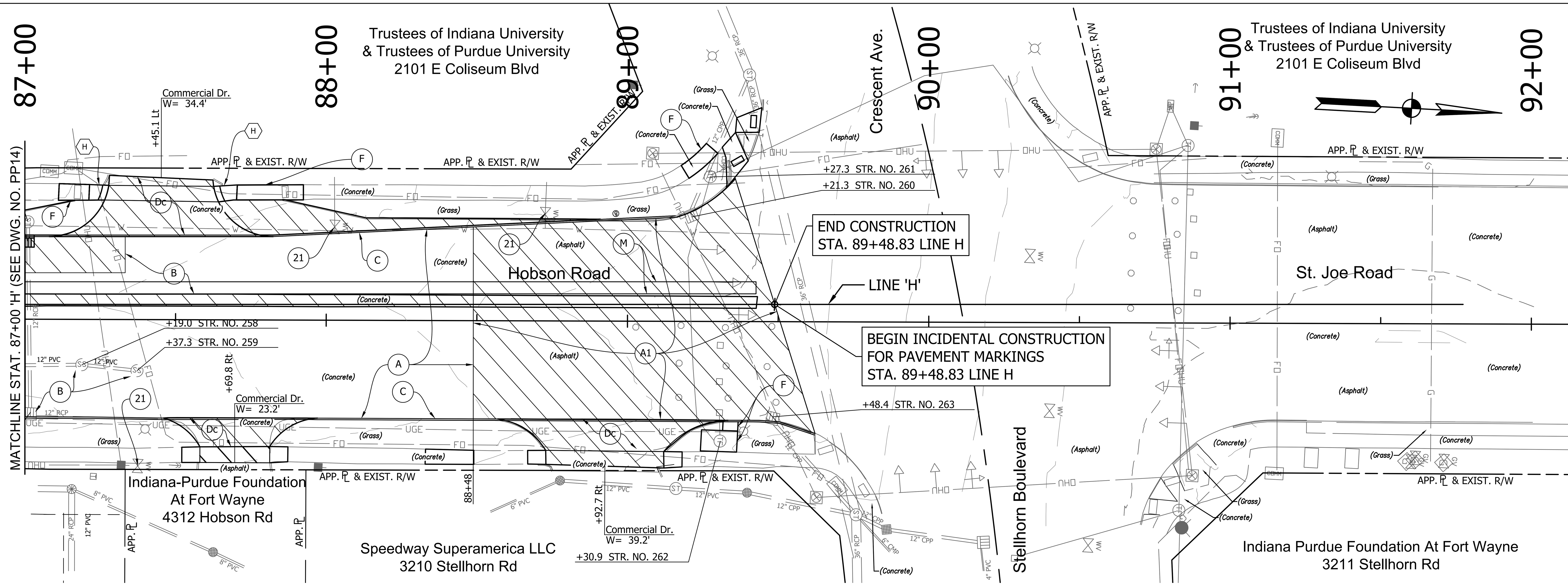
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

DRAWING NO.

PP14



TREE REMOVAL TABLE		
Station	Offset	Size
15+97	31' R	6"
16+47	30' L	4"
16+82	30' L	6"
16+85	31' R	2"
17+95	30' L	4"
20+94	30' L	16"
21+23	32' R	6"
21+74	31' R	14"
25+07	30' L	10"
26+28	31' R	6"
26+67	30' L	12"
27+13	30' L	16"
28+13	30' L	18"
28+59	31' L	16"
31+02	32' R	14"
32+98	30' L	12"
33+20	31' R	4"
34+43	32' L	18"
36+52	30' L	12"
37+68	30' L	2"
38+19	29' L	2"
38+75	31' R	6"
38+88	31' R	6"
39+02	30' L	2"
39+57	29' L	2"
41+25	29' L	2"
41+78	29' L	2"
42+27	32' R	12"
42+87	28' L	2"

LEGEND

- (A) 165#/SYD 9.5mm Surface Type A on 275#/SYD 12.5mm Intermediate Type A
- (A1) 165#/SYD 9.5mm Surface Type A on 495#/SYD 12.5mm Intermediate Type A on 660#/SYD 25mm Base
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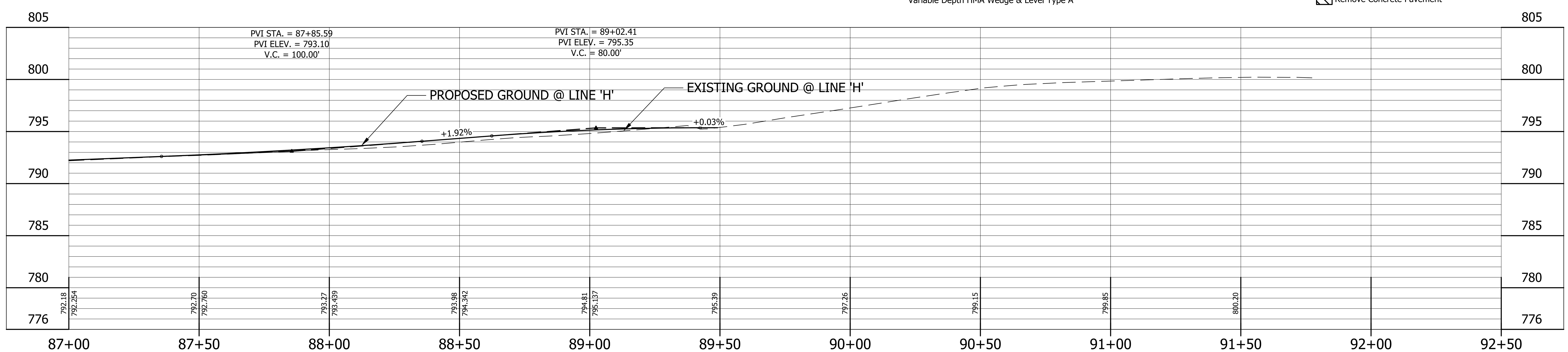

PROFILE – LINE 'H'
HORIZONTAL SCALE 1" =20'
VERTICAL SCALE 1 =5'

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SCALE:	H=1:20 V=1:5

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

PLAN & PROFILE SHEET, LINE H

DRAWING NO.

PP15

Bio-Retention Plan Keynotes

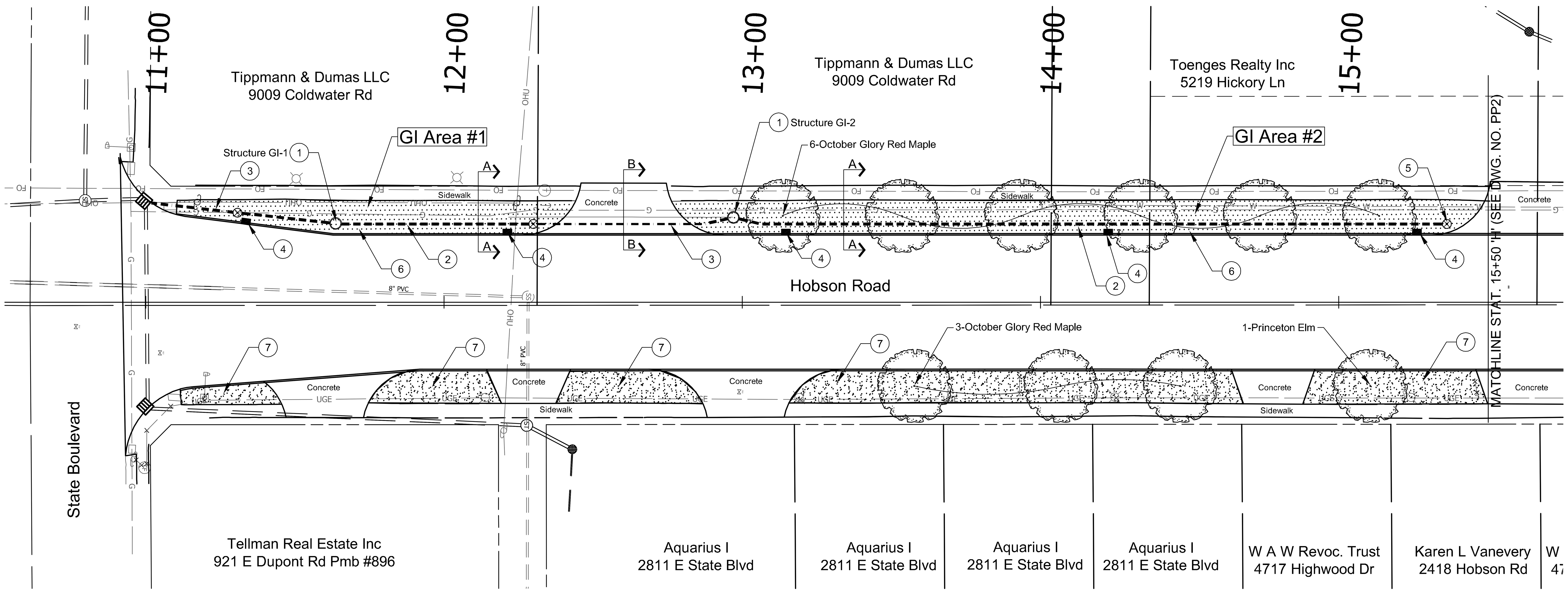
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



Green Infrastructure Grading Notes

1. The plans prepared by Earth Source, Inc shall be utilized for establishing grades for GI structures, underdrains, and bioswales.
2. Contractor shall maintain relative grade differentials between curb depressions and GI structure rim elevations.

SCALE: 1" = 20'
0 10 20 40

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS PREPARED BY:
Earth·Source Inc
14921 Hand Road, Fort Wayne IN
(260) 489-8511

PLANS CERTIFIED BY:
DAVE WEADOCK
PROJECT MANAGER
THIS __ DAY OF ________, 20__

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DRAWN BY: DPW
DESIGNED BY: DPW
CHECKED BY: DLE
DATE: 11-30-15
JOB NO:
SCALE: 1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.
G1

Bio-Retention Plan Keynotes

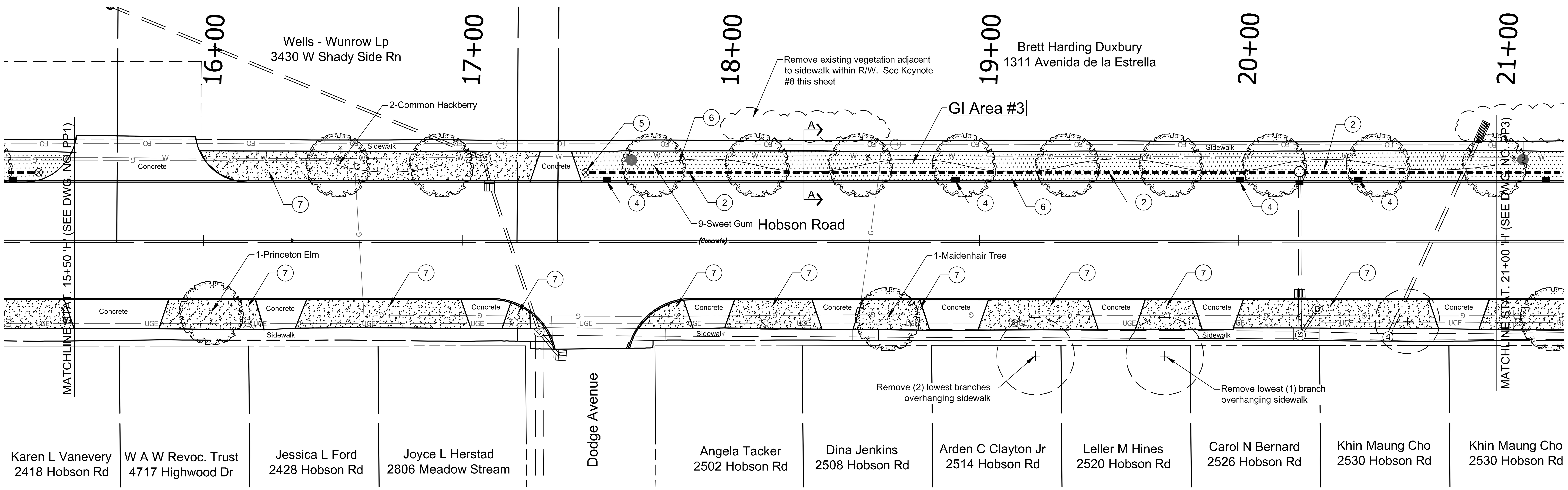
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



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PLANS PREPARED BY:

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(260) 489-8511

PLANS CERTIFIED BY:

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DRAWN BY: DPW
DESIGNED BY: DPW
CHECKED BY: DLE
DATE: 11-30-15
JOB NO:
SCALE: 1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.
G2

Bio-Retention Plan Keynotes

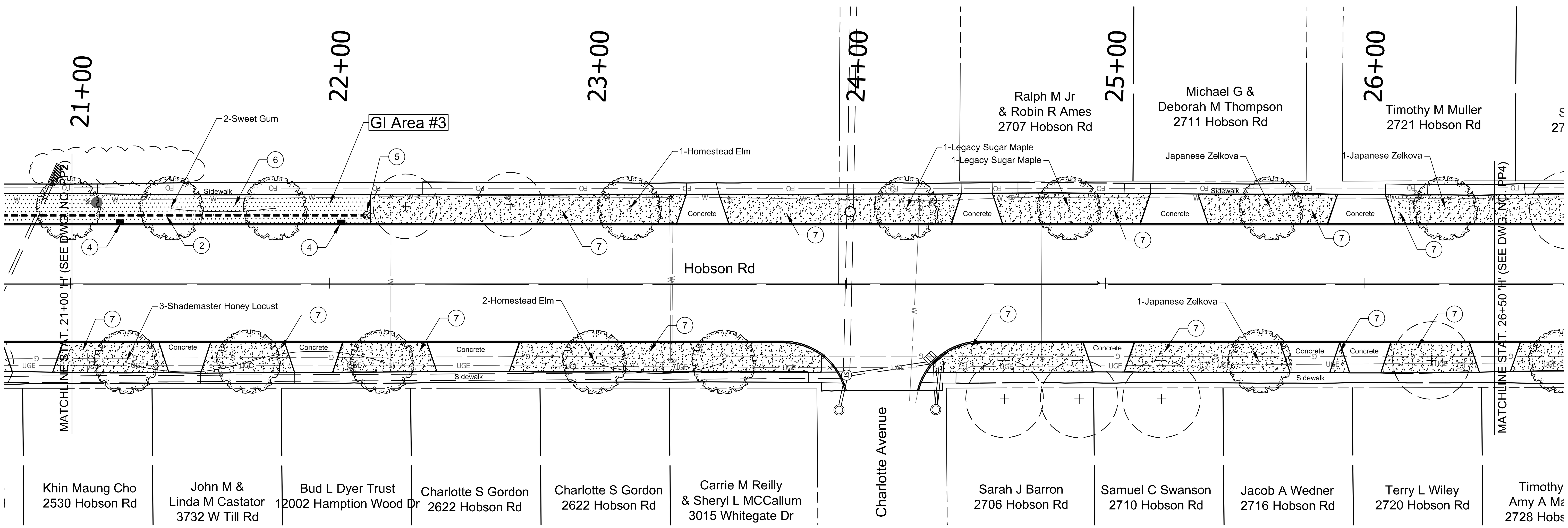
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



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DRAWN BY:	DPW
DESIGNED BY:	DPW
CHECKED BY:	DLE
DATE:	11-30-15
JOB NO:	
SCALE:	1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G3

Bio-Retention Plan Keynotes

1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
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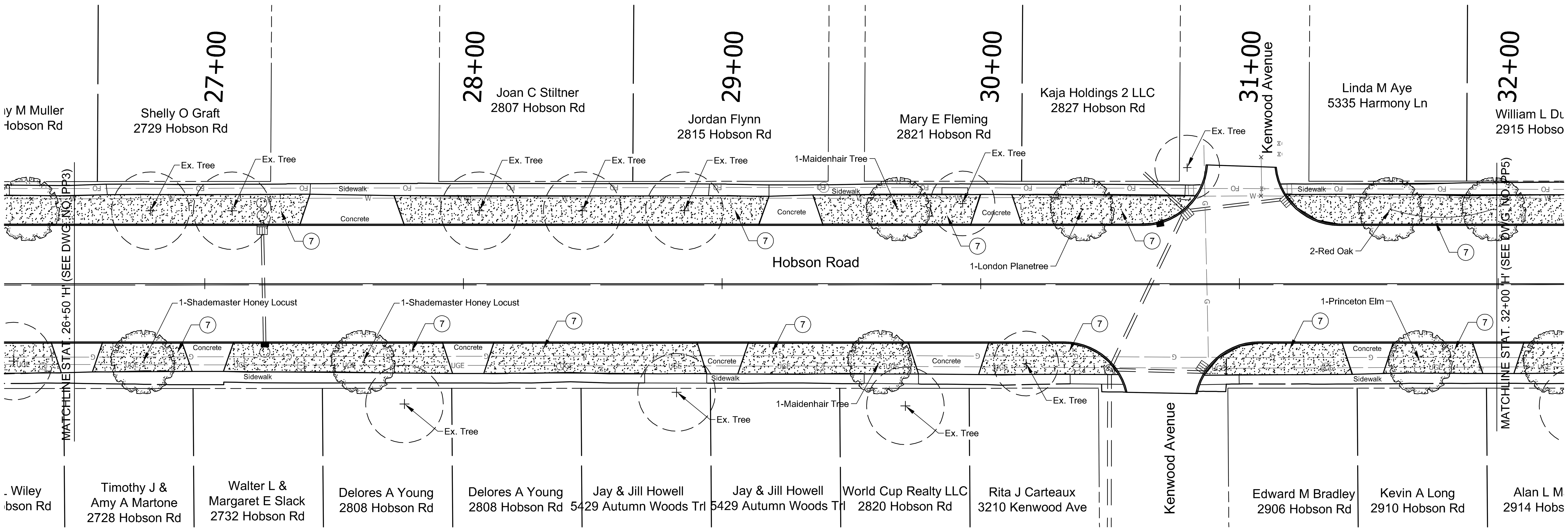
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



SCALE: 1" = 20'
0 10 20 40

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SCALE:	1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G4

Bio-Retention Plan Keynotes

1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
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Green Infrastructure Areas Location Table (Sheets G1-G15)

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#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
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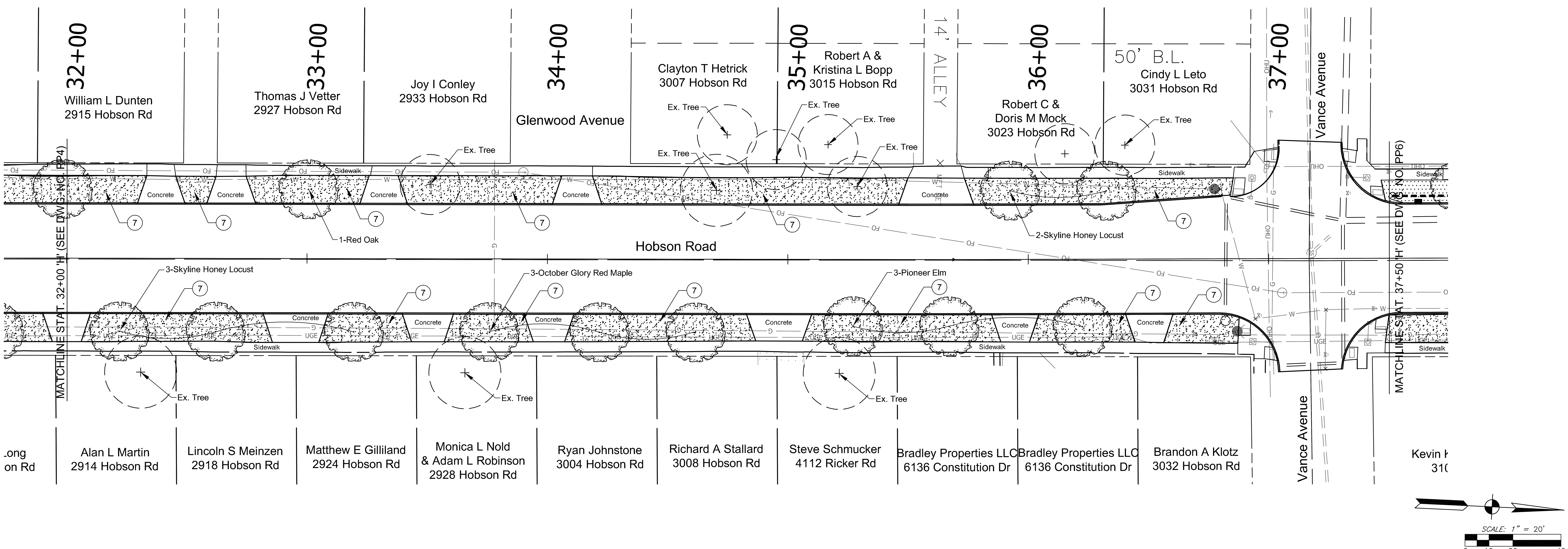
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



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HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G5

Bio-Retention Plan Keynotes

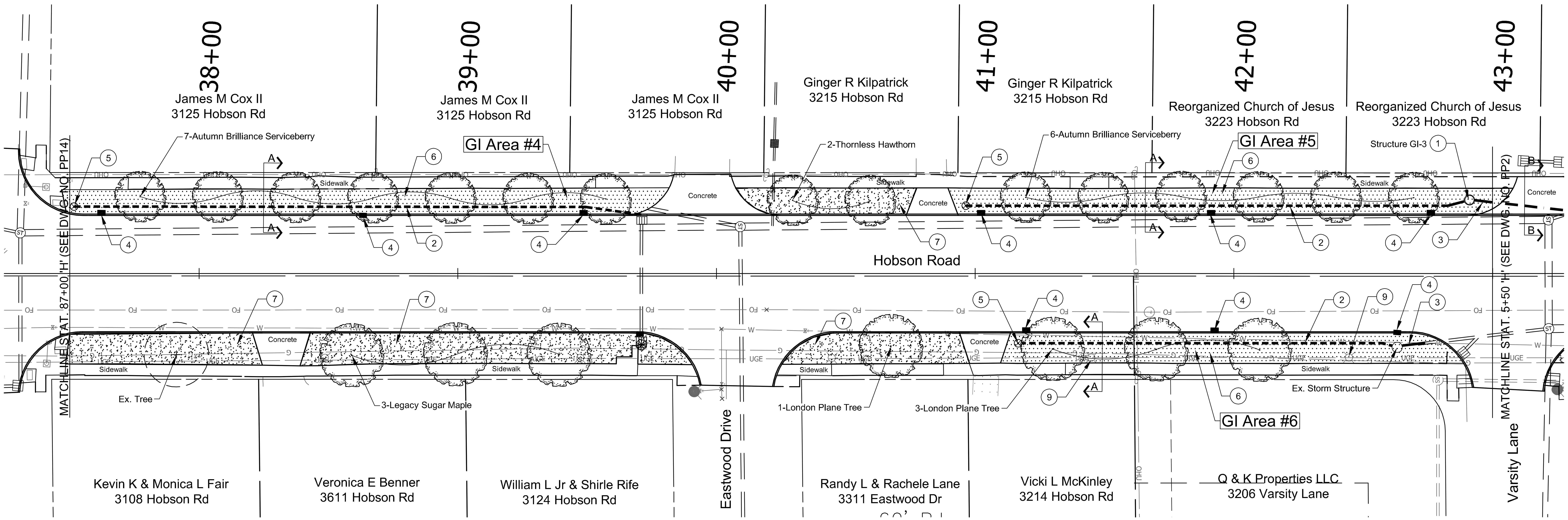
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



SCALE: 1" = 20'
0 10 20 40

-- REVISIONS --			
NO.	DATE	DESCRIPTION	REVISED BY

PLANS PREPARED BY:

Earth·Source Inc
14921 Hand Road, Fort Wayne IN
(260) 489-8511

PLANS CERTIFIED BY:

DAVE WEADOCK
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Pre-Final Plans
VS ENGINEERING, INC.

PLANS PREPARED FOR:

VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
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Phone: (260) 489-6635
Fax: (260) 489-6605

DRAWN BY:	DPW
DESIGNED BY:	DPW
CHECKED BY:	DLE
DATE:	11-30-15
JOB NO:	
SCALE:	1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G6

Bio-Retention Plan Keynotes

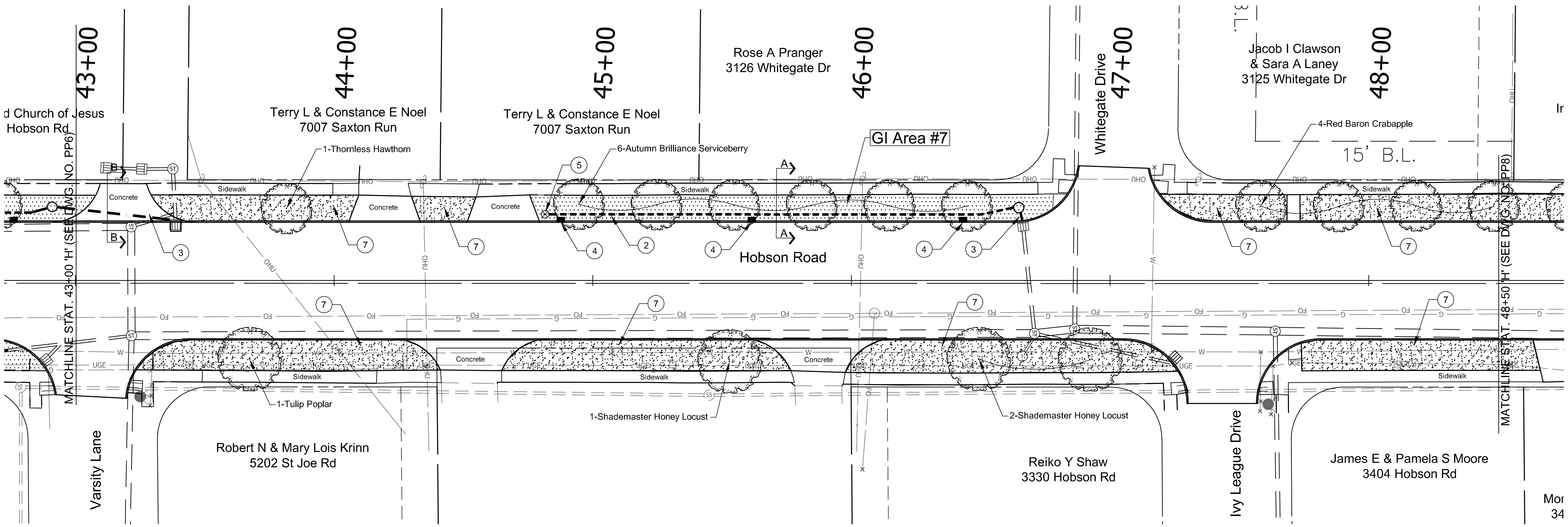
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



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DRAWN BY:	DPW
DESIGNED BY:	DPW
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DATE:	11-30-15
JOB NO:	
SCALE:	1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G7

Bio-Retention Plan Keynotes

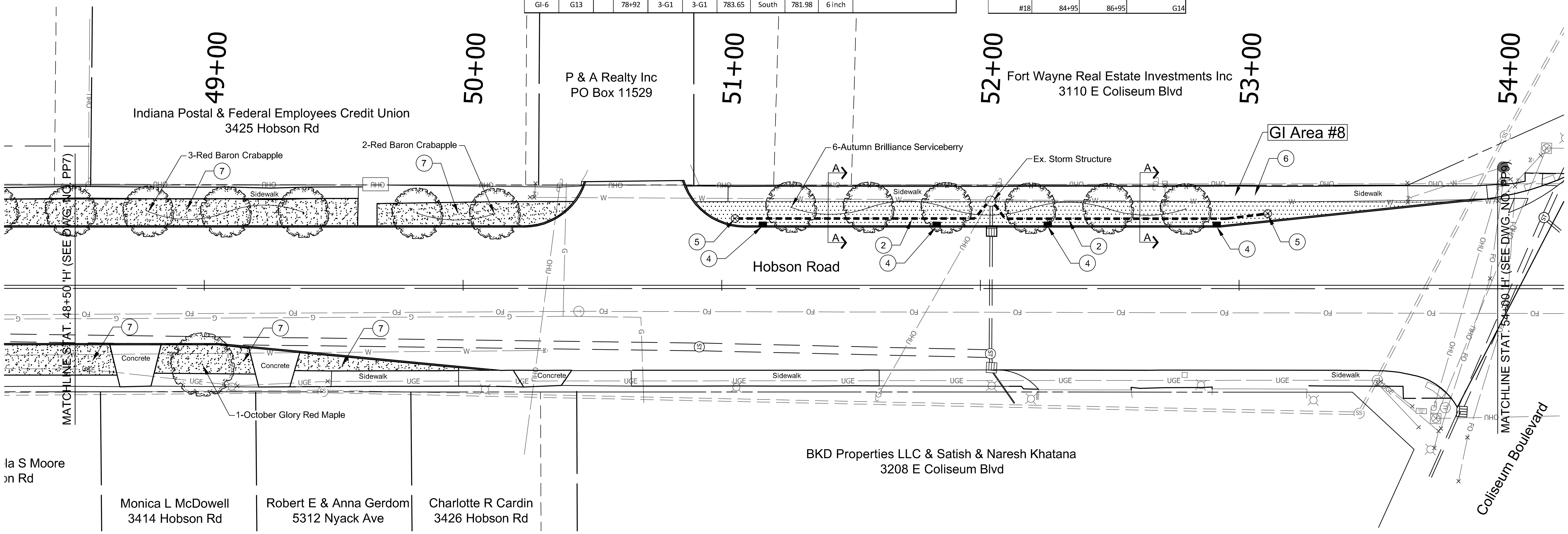
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



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DRAWN BY: DPW
DESIGNED BY: DPW
CHECKED BY: DLE
DATE: 11-30-15
JOB NO:
SCALE: 1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G8

Bio-Retention Plan Keynotes

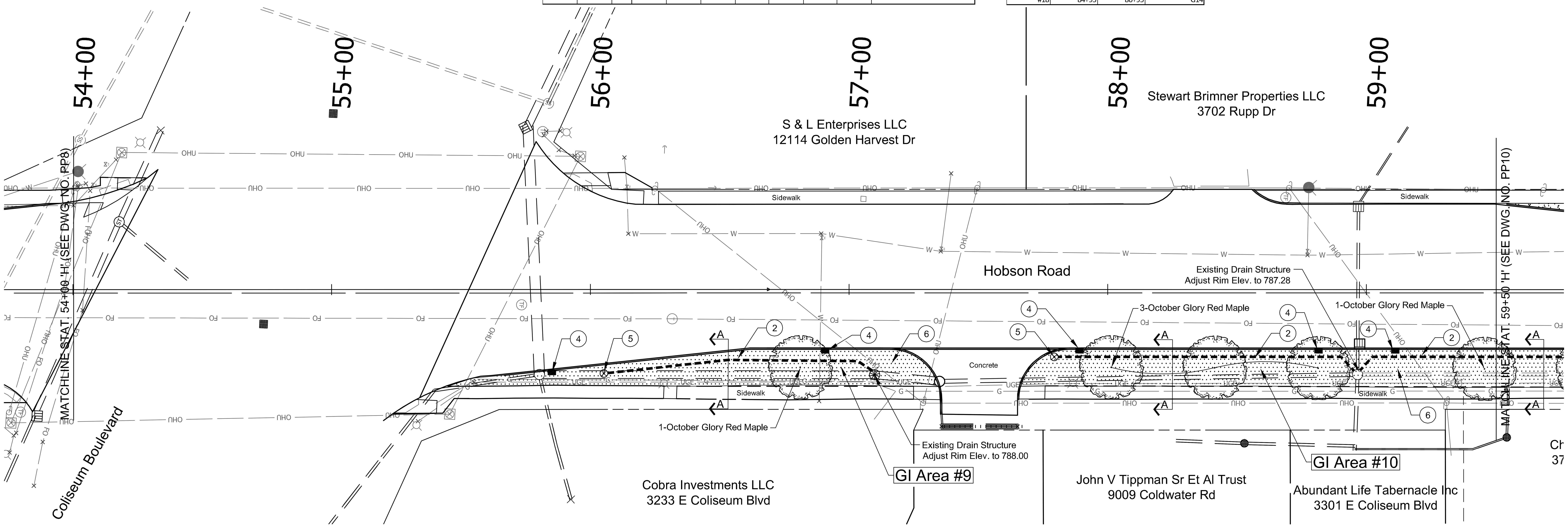
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



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DRAWN BY: DPW
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SCALE: 1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.
G9

Bio-Retention Plan Keynotes

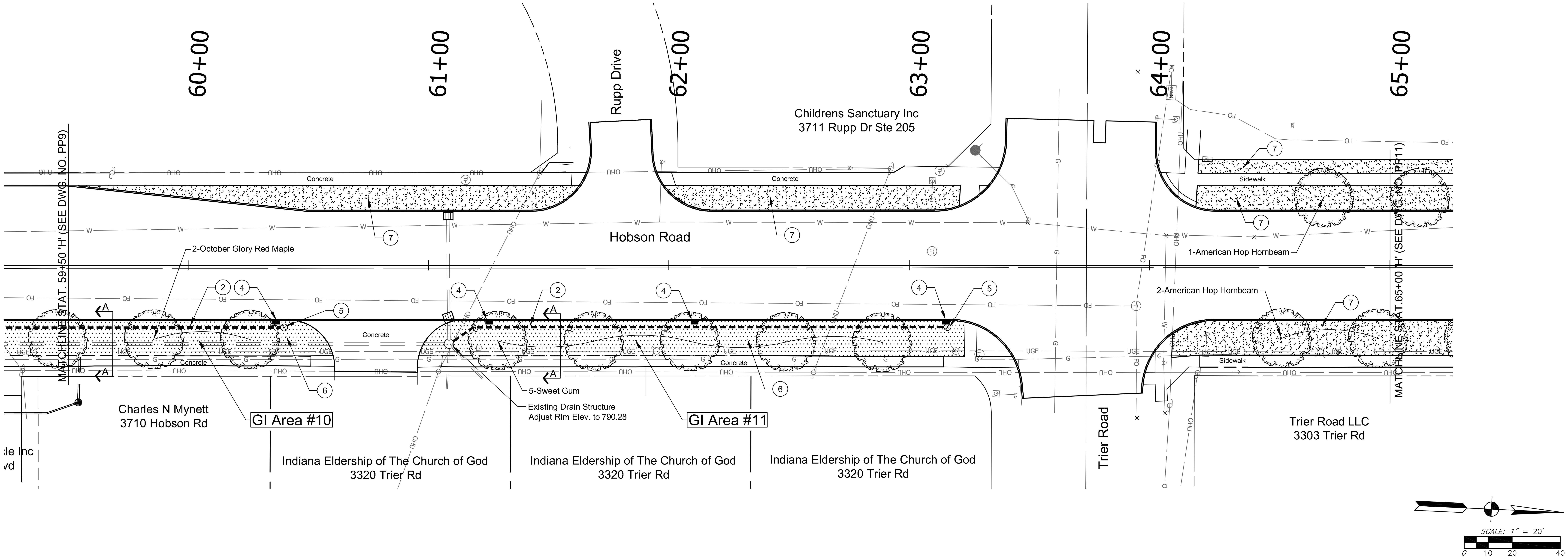
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



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DRAWN BY:	DPW
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JOB NO:	
SCALE:	1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G10

Bio-Retention Plan Keynotes

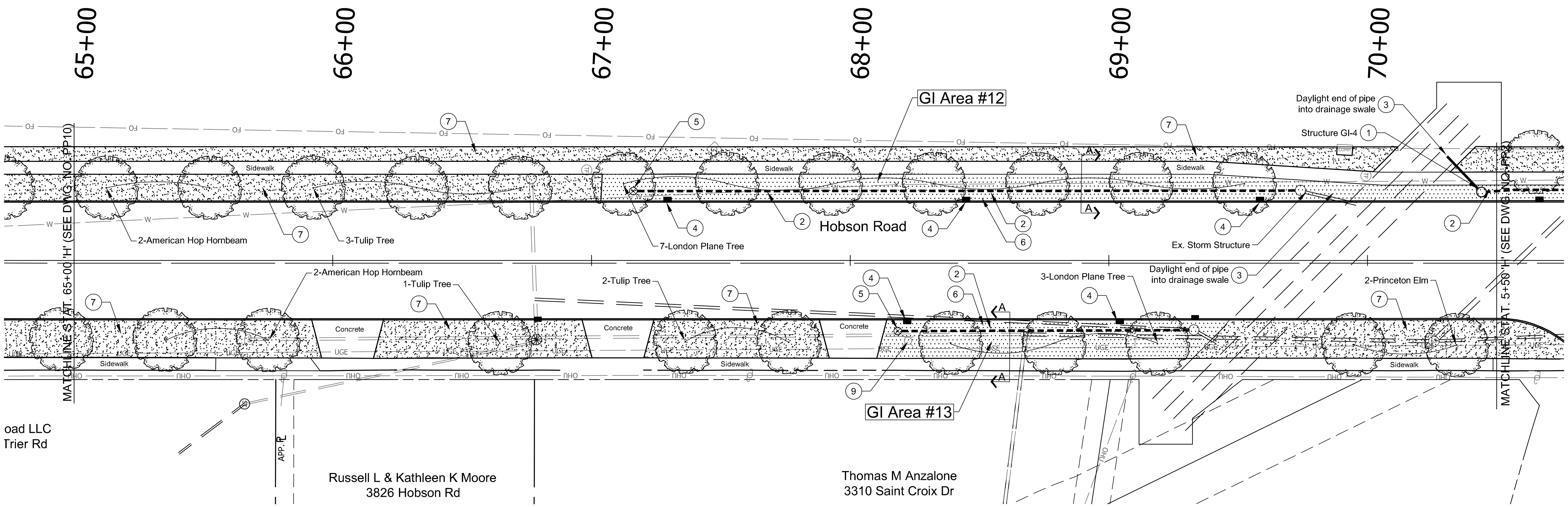
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



SCALE: 1" = 20'
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DRAWN BY:	DPW
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SCALE:	1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G11

Bio-Retention Plan Keynotes

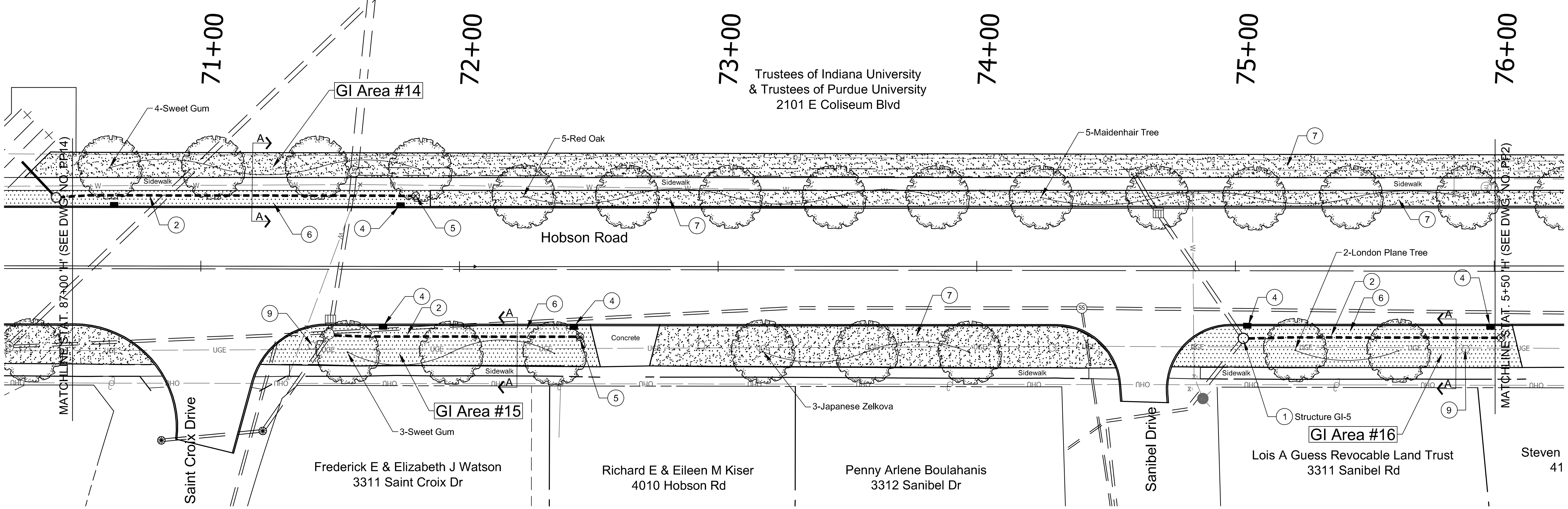
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



SCALE: 1" = 20'
0 10 20 40

NO.	DATE	-- REVISIONS -- DESCRIPTION	REVISED BY

PLANS PREPARED BY:

Earth·Source Inc
14921 Hand Road, Fort Wayne IN
(260) 489-8511

PLANS CERTIFIED BY:

DAVE WEADOCK
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Pre-Final Plans
VS ENGINEERING, INC.

PLANS PREPARED FOR:

VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
www.vsengineering.com
Phone: (260) 489-6635
Fax: (260) 489-6605

DRAWN BY:	DPW
DESIGNED BY:	DPW
CHECKED BY:	DLE
DATE:	11-30-15
JOB NO:	
SCALE:	1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G12

Bio-Retention Plan Keynotes

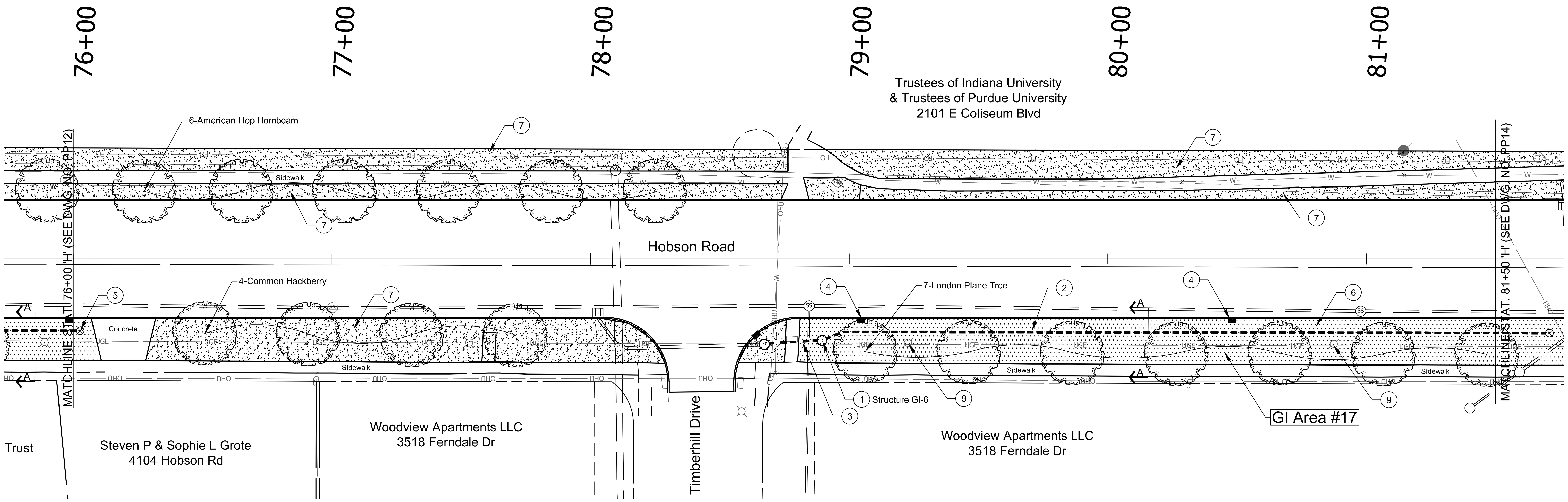
1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
GI-1	G1		11+15	3-G1	3-G1	791.40	South	789.73	12 inch	
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



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0 10 20 40

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HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G13

Bio-Retention Plan Keynotes

1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

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#2	12+75	15+40	G1
#3	17+40	22+05	G2-G3
#4	37+50	39+80	G6
#5	40+90	43+00	G6
#6	41+05	42+65	G6
#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
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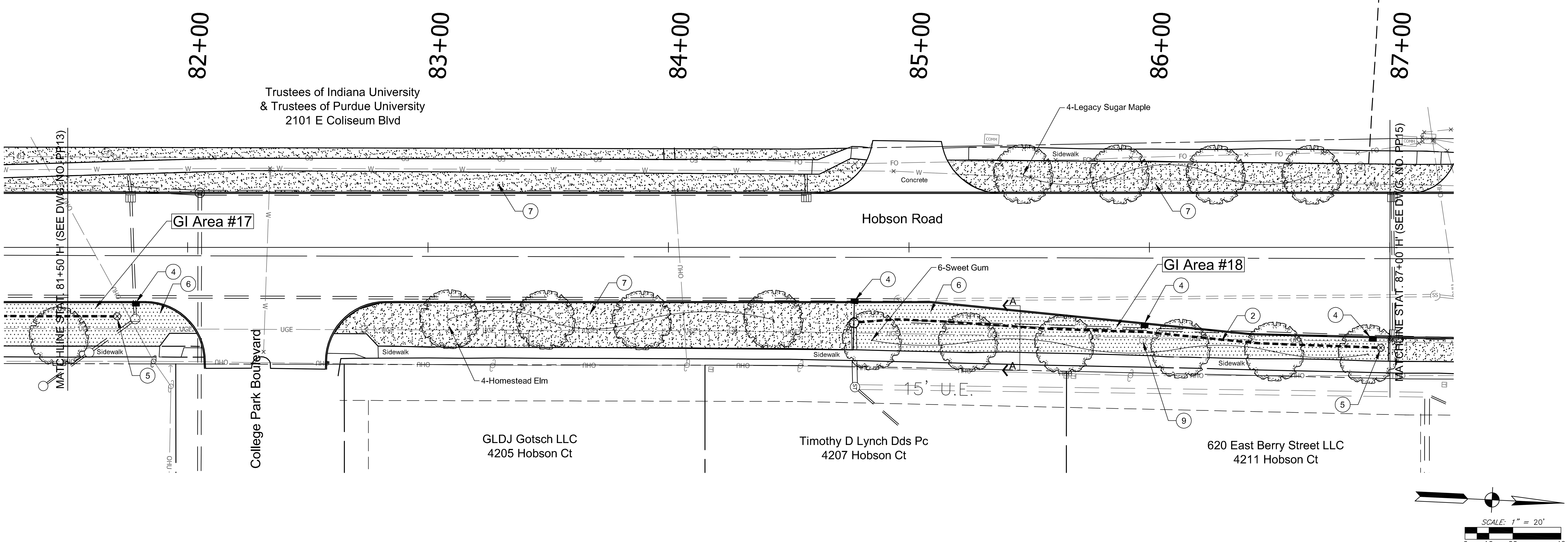
GI-2	G1		12+96	3-G1	3-G1	793.70	South	792.03	6 inch	
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



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DESIGNED BY:	DPW
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SCALE:	1" = 20'

HOBSON ROAD REHABILITITATION

BIOSWALE DEVELOPMENT PLAN

DRAWING NO.

G14

Bio-Retention Plan Keynotes

1. Storm drain basin, see Detail 3, Sheet G16.
2. 6" Perforated drain line, see Detail 1, Sheet G16.
3. 6" Solid drain line. See Detail 2, Sheet G16.
4. Depressed curb section, see engineering drawings.
5. Cleanout. See Detail 5, Sheet G16.
6. Seeded bio-swale area with Turf-Type Tall Fescue. Include erosion control materials and soil separator per Detail 1, Sheet G1
7. Seeded lawn area with Turf-Type Tall Fescue.
8. Completely remove existing vegetation within right-of-way and grind stumps a minimum of 6" below finish grade. Dispose of debris off-site. Seed disturbed area with Tall Fescue Seed Mixture.
9. See Detail 6, Sheet G16 for treatment adjacent to existing light pole

Green Infrastructure Areas Location Table (Sheets G1-G15)

GI Area No.	Station Start	Station End	Drawing Sheet
#1	11+05	12+33	G1
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#7	44+85	46+65	G7
#8	50+95	53+85	G8
#9	55+85	57+10	G9
#10	57+85	60+25	G9-G10
#11	61+00	63+10	G10
#12	67+05	70+00	G11
#13	68+05	69+10	G11
#14	70+35	71+85	G12
#15	71+65	72+50	G12
#16	75+00	75+90	G12
#17	78+95	81+60	G13-G14
#18	84+95	86+95	G14

GREEN INFRASTRUCTURE - PROPOSED STRUCTURE DATA

STRUCTURE NUMBER	DRAWING NUMBER	LINE	STATION	MANHOLE TYPE	CASTING TYPE	TOP OF CASTING ELEV.	INVERT DIRECTION	INVERT ELEVATION	PIPE SIZE (IN.)	REMARKS
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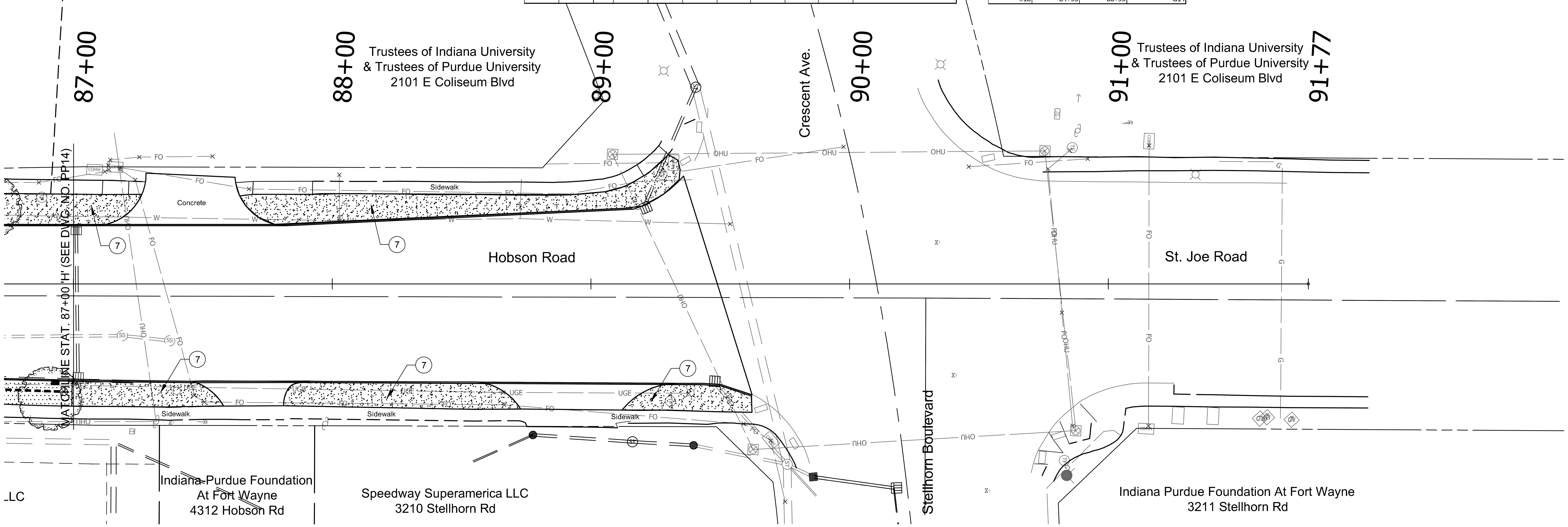
GI-3	G6		42+85	3-G1	3-G1	793.28	North	791.61	6 inch	
GI-4	G11		70+30	3-G1	3-G1	778.90	South	777.23	6 inch	Outlet to open ditch
GI-5	G12		75+05	3-G1	3-G1	781.00	South	779.33	6 inch	
GI-6	G13		78+92	3-G1	3-G1	783.65	South	781.98	6 inch	



SCALE: 1" = 20'
0 10 20 40

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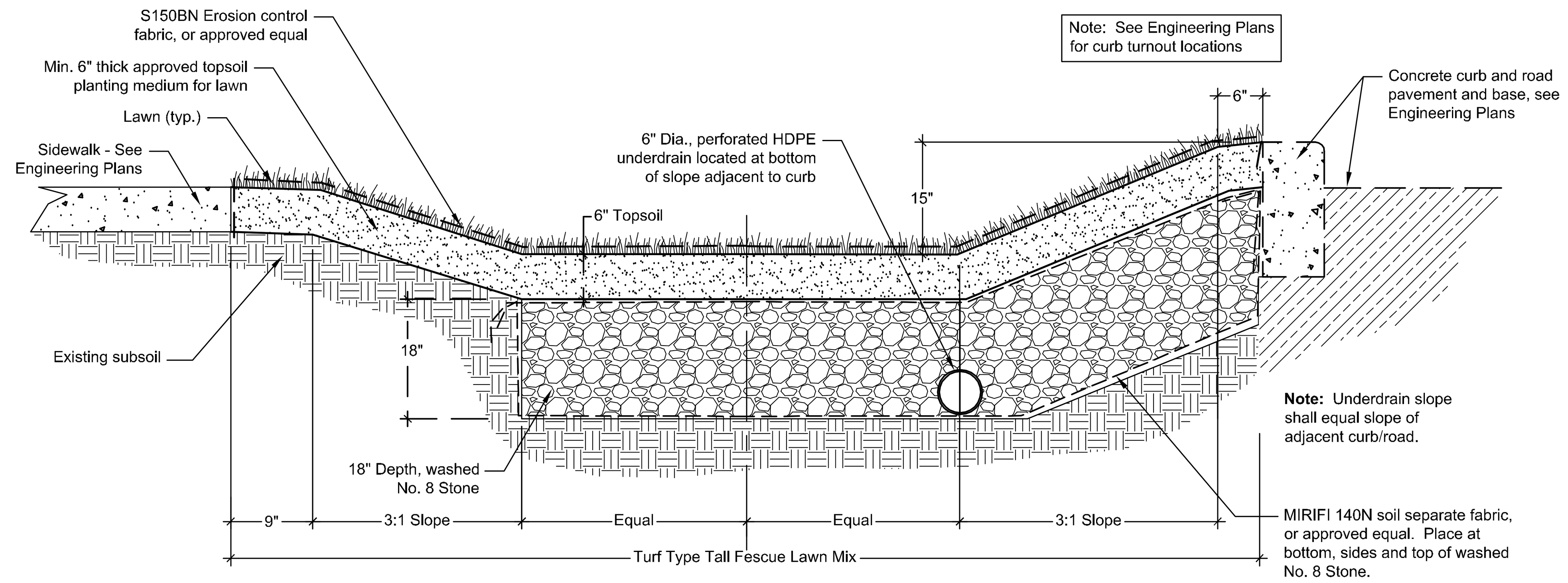
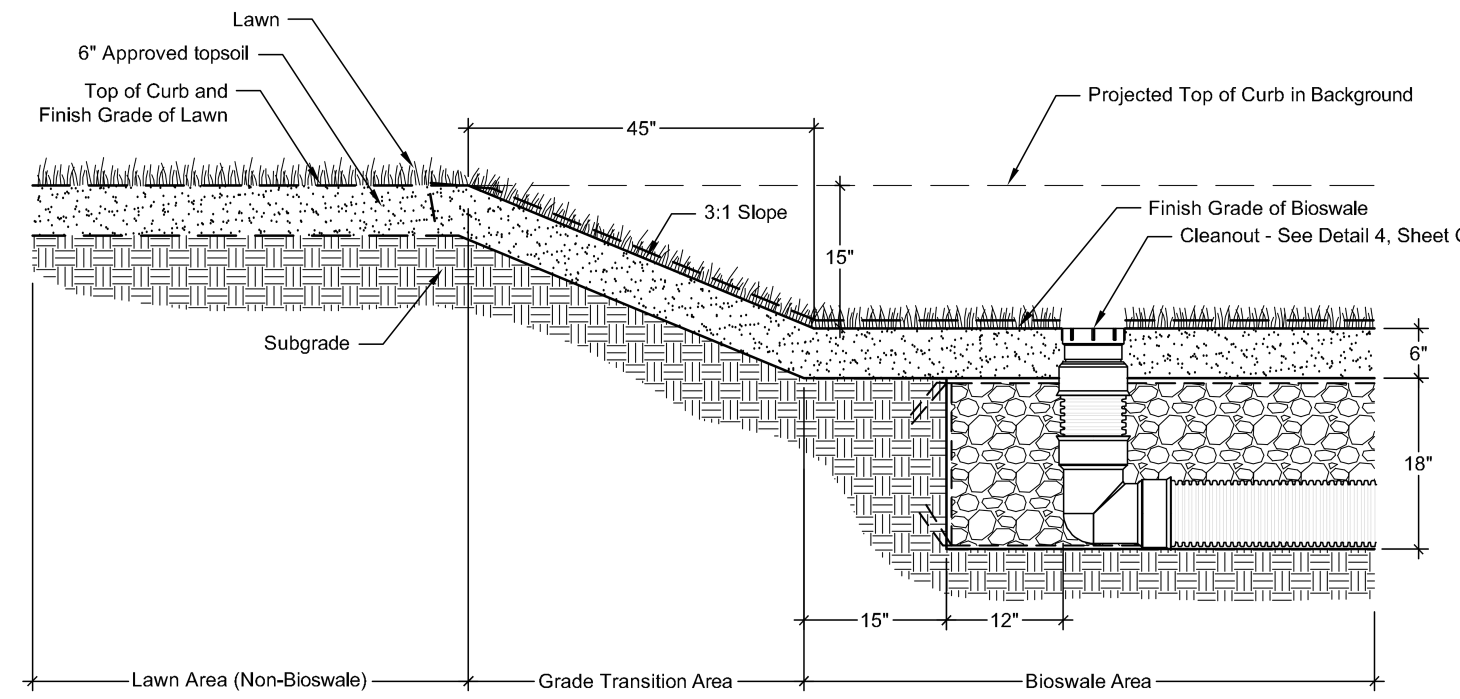
HOBSON ROAD REHABILITITATION
BIOSWALE DEVELOPMENT PLAN

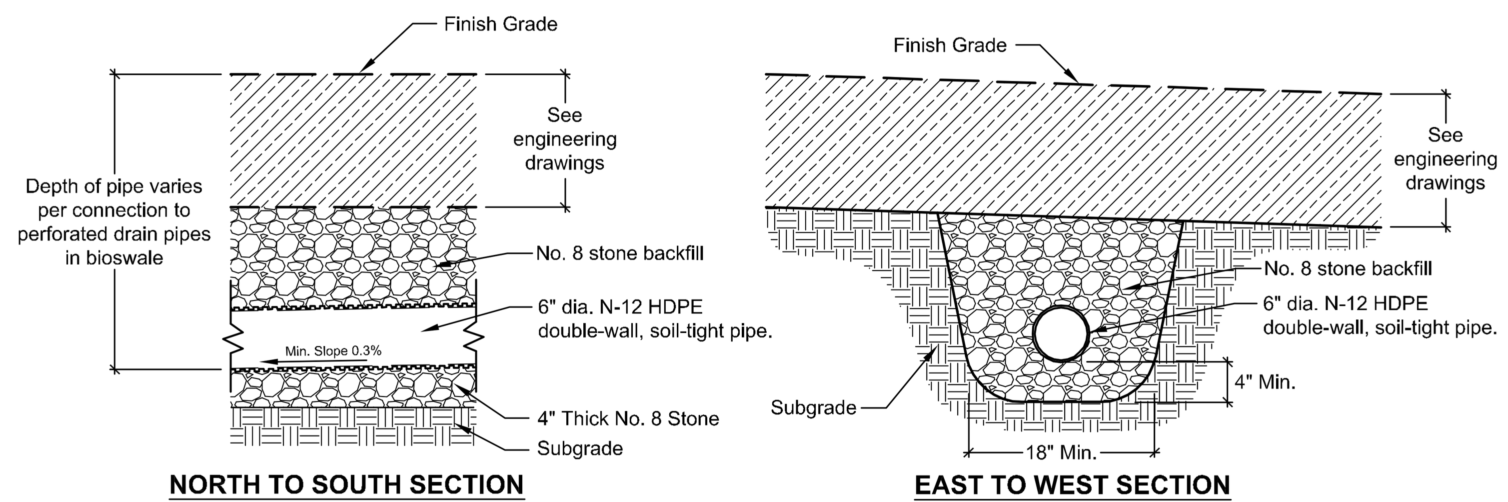
DRAWING NO.
G15



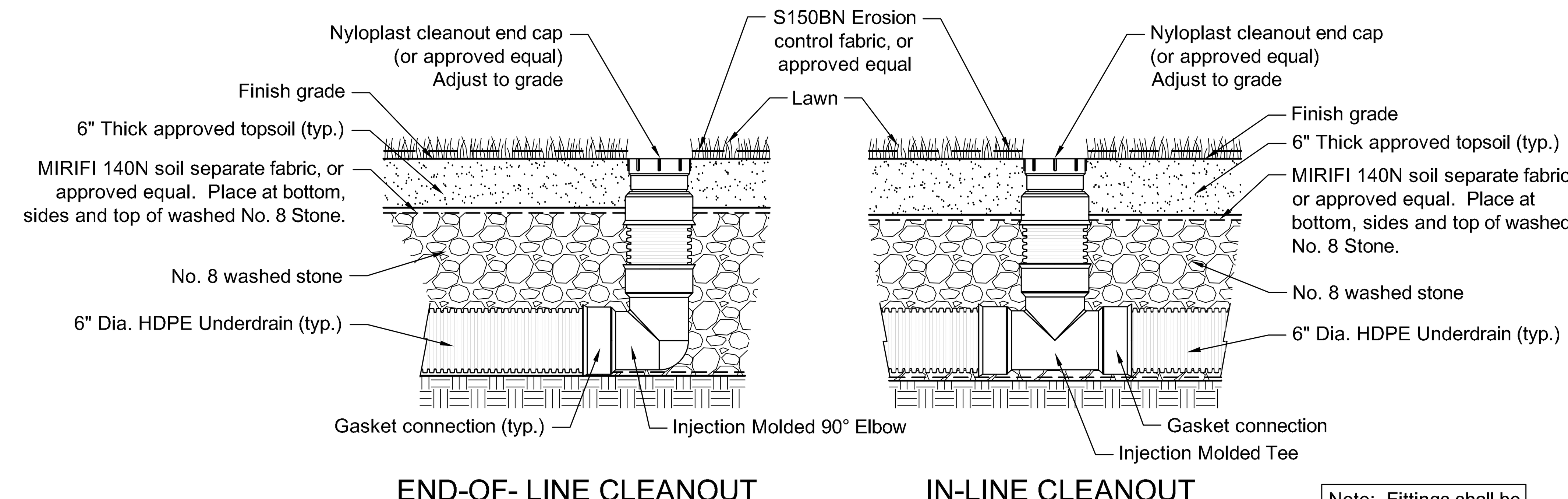
1 G16 **Typical Bio-Swale Cross-Section "A"**
Scale: 3/4" = 1'-0"



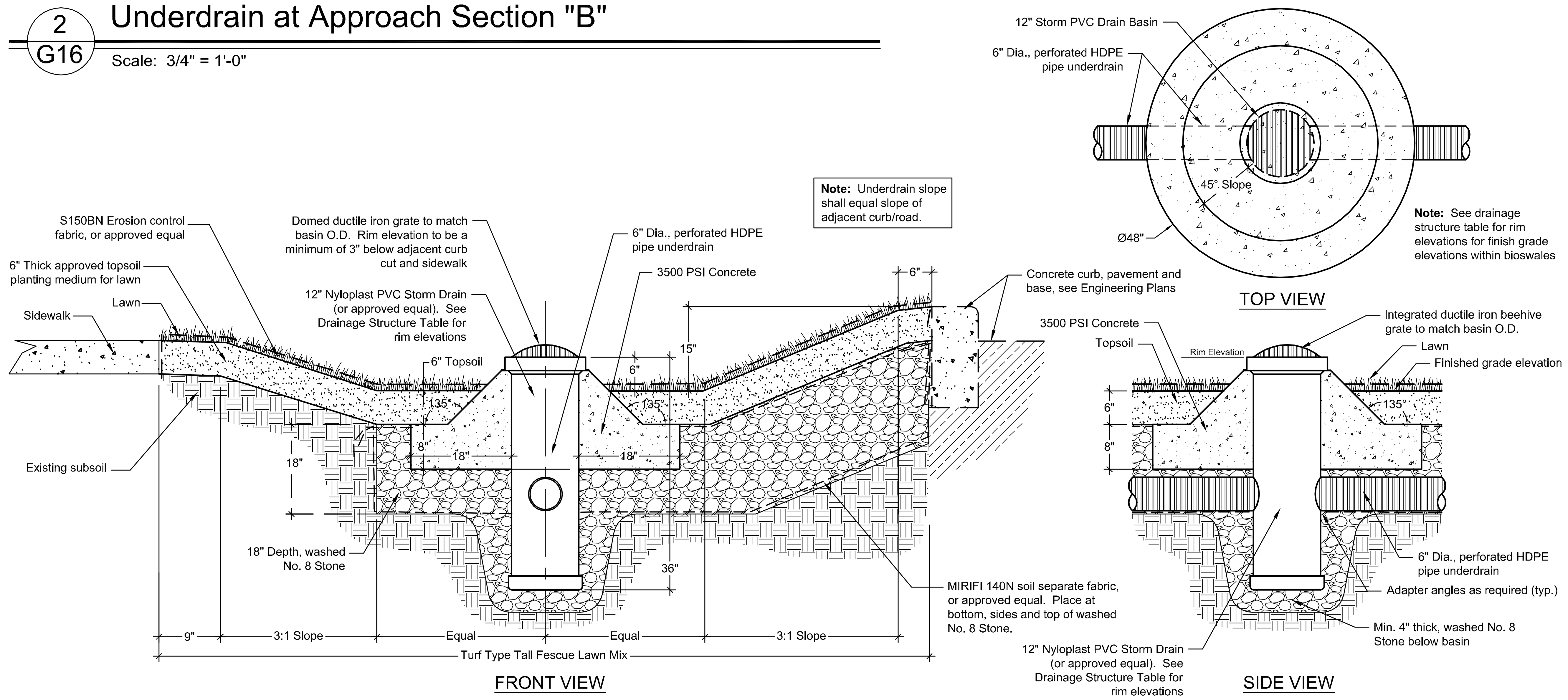
4 G16 **Bioswale Grade Transition Section**
Scale: 3/4" = 1'-0"



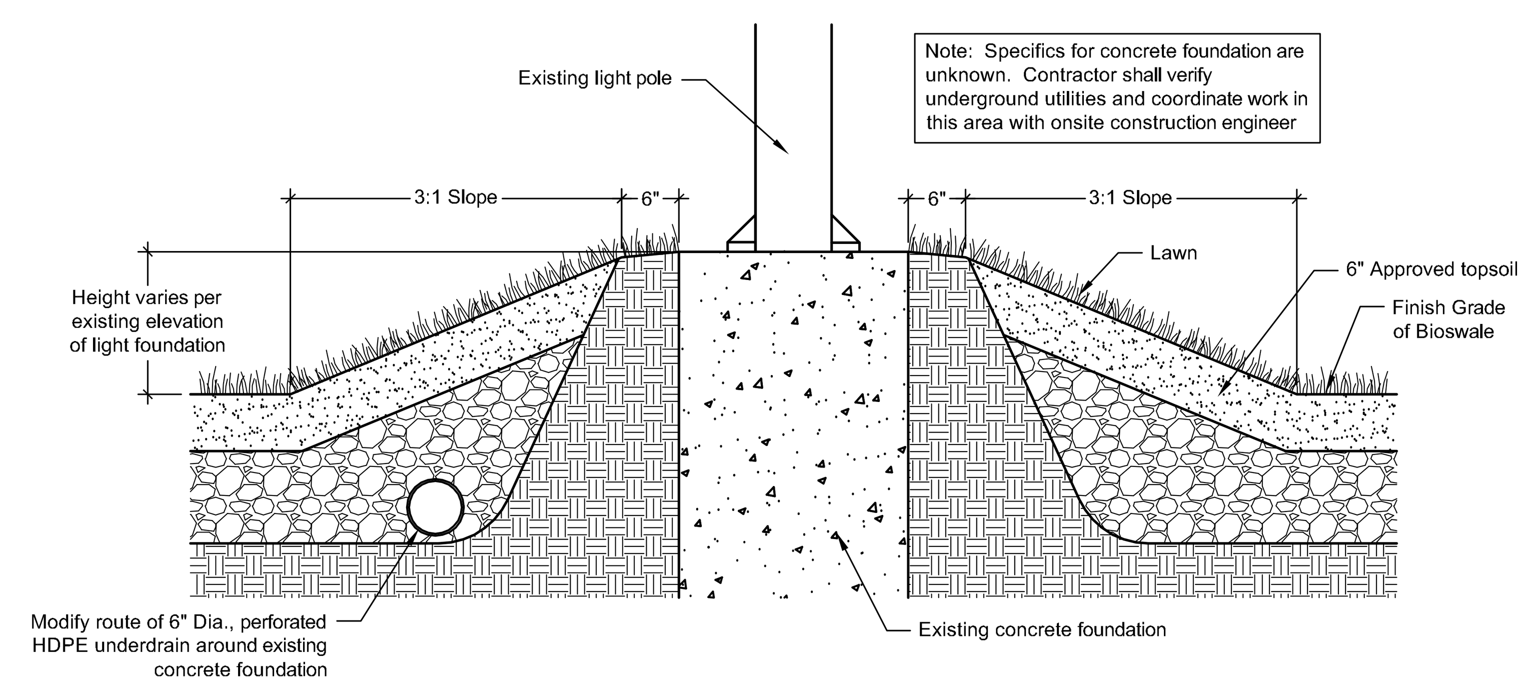
2 G16 **Underdrain at Approach Section "B"**
Scale: 3/4" = 1'-0"



5 G16 **Cleanout Detail**
Scale: 1" = 1'-0"



3 G16 **Typical Bio-Swale Drain Section**
Scale: 3/4" = 1'-0"



6 G16 **Existing Light Pole Treatment in Bioswale**
Scale: 3/4" = 1'-0"

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

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Earth·Source Inc
14921 Hand Road, Fort Wayne IN
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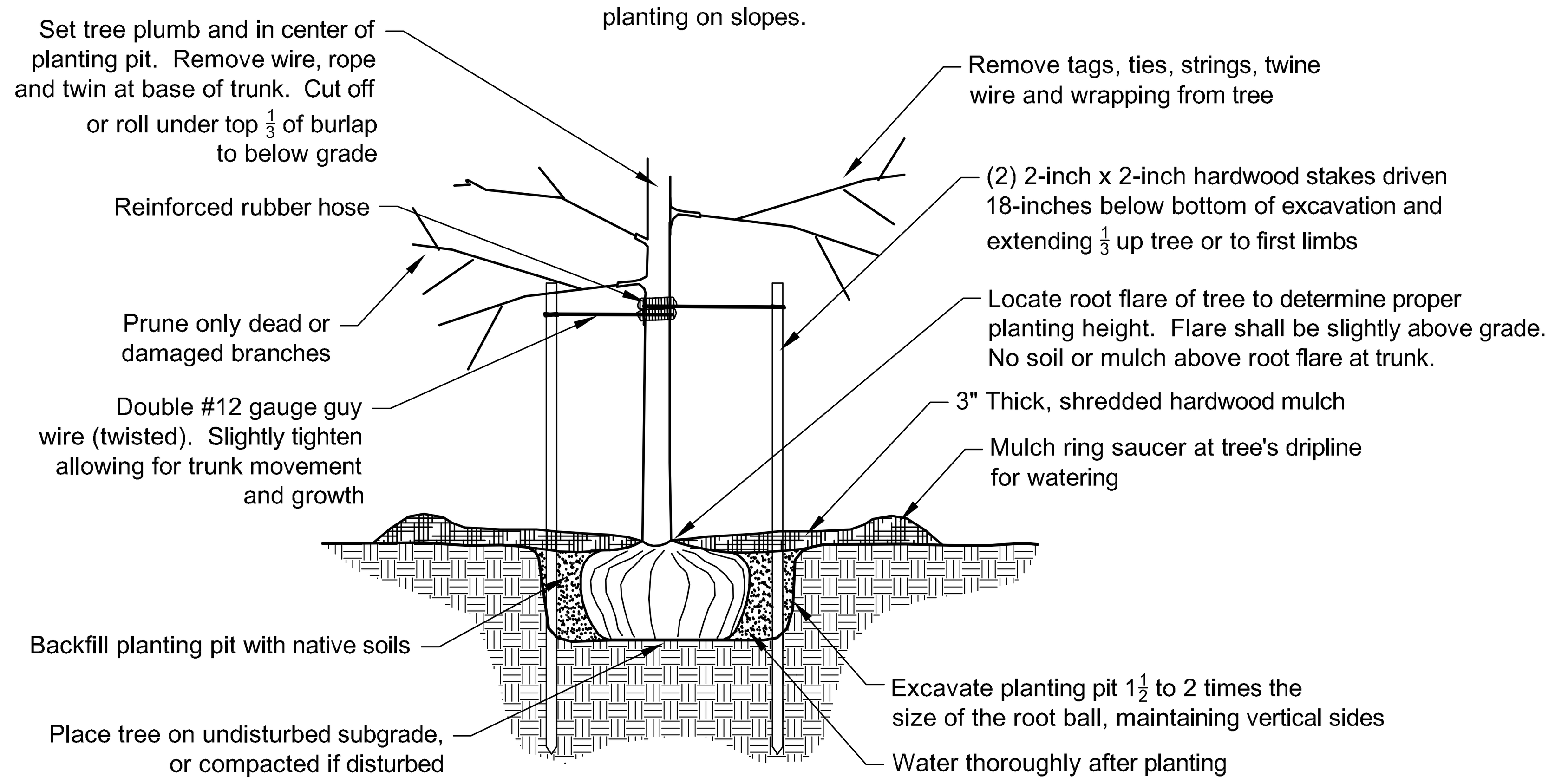
HOBSON ROAD REHABILITITATION

BIOSWALE DETAILS

DRAWING NO.
G16
45 OF 95

Notes:
1. Size of tree and root ball may vary. Refer to plant list for tree sizes.
2. Contractor shall remove hardwood stakes, guy wire and rubber hose at end of guarantee period.
3. Finish grades vary. Ensure tree trunk remains vertical and root flare location is determined when planting on slopes.



Typical Tree Planting Detail

Scale: 3/4" = 1'-0"

PLANT LIST

TREES

Qty.	Botanical Name	Common Name	Plant Size	Spacing	Remarks
20	*Acer rubrum "October Glory"*	Octobery Glory Red Maple	2.5" Cal. B&B	40' O.C.	
9	*Acer saccharum "Legacy"*	Legacy Sugar Maple	2.5" Cal. B&B	40' O.C.	
25	*Amelanchier canadensis*	Shadblow Serviceberry	1.75" Cal. B&B	30' O.C.	Single-Stem Variety
6	*Celtis occidentalis*	Common Hackberry	2.5" Cal. B&B	40' O.C.	
3	*Crataegus crus-galli inermis*	Thornless Hawthorn	2" Cal. B&B	30' O.C.	
8	*Ginkgo biloba*	Maidenhair Tree	2.5" Cal. B&B	40' O.C.	Male Variety Only
8	*Gleditsia tri. inermis "Shademaster"*	Shademaster Honeylocust	3" Cal. B&B	40' O.C.	
5	*Gleditsia triacanthos inermis "Skycole"*	Skyline Honeylocust	3" Cal. B&B	40' O.C.	
7	*Liriodendron tulipifera*	Tulip Poplar	2" Cal. B&B	40' O.C.	
29	*Liquidambar styraciflua*	Sweet Gum	2.5" Cal. B&B	40' O.C.	
9	*Malus "Red Baron"*	Red Baron Crabapple	2" Cal. B&B	30' O.C.	
13	*Ostrya virginiana*	American Hop Hornbeam	2" Cal. B&B	40' O.C.	
24	*Platanus x acerifolia "Bloodgood"*	London Plane Tree	2.5" Cal. B&B	40' O.C.	
8	*Quercus rubra*	Red Oak	2.5" Cal. B&B	40' O.C.	
5	*Ulmus x "Princeton"*	Princeton Elm	2.5" Cal. B&B	40' O.C.	
7	*Ulmus x "Homestead"*	Homestead Elm	2.5" Cal. B&B	40' O.C.	
3	*Ulmus x "Pioneer"*	Pioneer Elm	2.5" Cal. B&B	40' O.C.	
6	*Zelkova serrata "Green Vase"*	Green Vase Japanese Zelkova	3" Cal. B&B	40' O.C.	

Note: Tree spacing indicates typical spacing between trees. Refer to plans for different spacing as required per utility locations or other field conditions that may alter the placement of trees. Contact City Representative if tree(s) requir a shift in location that differs from the plans.

PLANTING NOTES

1. Work shall be done in accordance with the plans prepared by Earth Source, Inc. (ESI). Any and all field changes to the design/design intent shall immediately be brought to the attention of ESI at (260) 489-8511, prior to execution. Any work done prior to or without such notification shall release ESI of all responsibilities and liabilities.
2. The Contractor shall secure all permits/approvals from agencies governing the work prior to beginning construction.
3. The Contractor shall keep the premises and adjacent construction equipment clean and free of dirt and debris. Public streets and sidewalks shall remain open unless authorization for closure is procured from the Owner.
4. The Contractor shall field verify all existing utility line locations prior to any construction. Deviations from the design locations shall be reported to ESI prior to relocation. The Contractor is responsible for repairing any and all damage to utilities and structures that occur as a result of the construction.
5. Materials and workmanship shall comply with all applicable codes, specifications, local ordinances, industry standards, and utility company regulations.
6. Work will be inspected and all underground work must be approved before any trench is backfilled.
7. The Contractor is responsible for coordinating and scheduling work with other contractors and trades.
8. The Contractor shall notify ESI immediately if any discrepancies in the construction documents are found.
9. Contractor shall provide a minimum 6" thick approved topsoil in lawn areas disturbed during construction. Topsoil shall be hauled to the site from an approved, off-site source, and then spread. Hydroseed all disturbed areas with specified seed mixture.
10. Contractor shall hydroseed all bioswale and disturbed areas after installation of approved topsoil with the following seed mixture:

    Seed Mixture:
    AG Plus Tall Fescue Blue (or approved equal)
    34.61% Tanzania Tall Fescue
    32.41% Firecracker LS Tall Fescue
    32.38% Spyder LS Tall Fescue

    Application Rate: 10 Lbs./1,000 S.F.

    Contact: AG Plus at (260) 749-5139

11. A satisfactory stand of 85% coverage shall be established in all bioswale and lawn areas prior to granting substantial completion.
12. The Contractor shall maintain positive drainage away from structures. Take special care to ensure that bed preparation does not inhibit proposed drainage.
13. Any series of trees or shrubs to be placed in a particular arrangement may be field checked and approved by ESI for accuracy of spacing prior to planting. Any plants not arranged per the plans will be relocated at the expense of the Contractor.
14. Tree plantings shall have a minimum of 3" thick, shredded, hardwood mulch installed per the planting detail.
15. Trees shall be straight trunked, full-headed and staked per the planting details.
16. Dimensions for height, spread and caliper of trees specified on the Plant List are general guides for the minimum desired size of each plant. Each plant shall have a uniform and consistent shape as it pertains to the latest edition of American Standard for Nursery Stock. Any plant material which fails to conform to the specifications is subject to rejection by Owner/ESI.
17. Where provided, area take-offs and plant quantity estimates in plant list are for information only. Contractor is responsible to verify quantity take-offs for all plant materials shown on plans. In case of any discrepencies, plans take precendence over callouts and/or plant list.
18. The Contractor shall completely guarantee plant material for the period of one (1) full year beginning at the date of total acceptance by the Owner/ESI. The Contractor shall promptly make like replacements before or at the end of the guarantee period as the growing season permits.
19. The Contractor shall remove staking and guying immediately following the end of the guarantee period.

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS PREPARED BY:

Earth·Source Inc
14921 Hand Road, Fort Wayne IN
(260) 489-8511

PLANS CERTIFIED BY:

DAVE WEADOCK
PROJECT MANAGER

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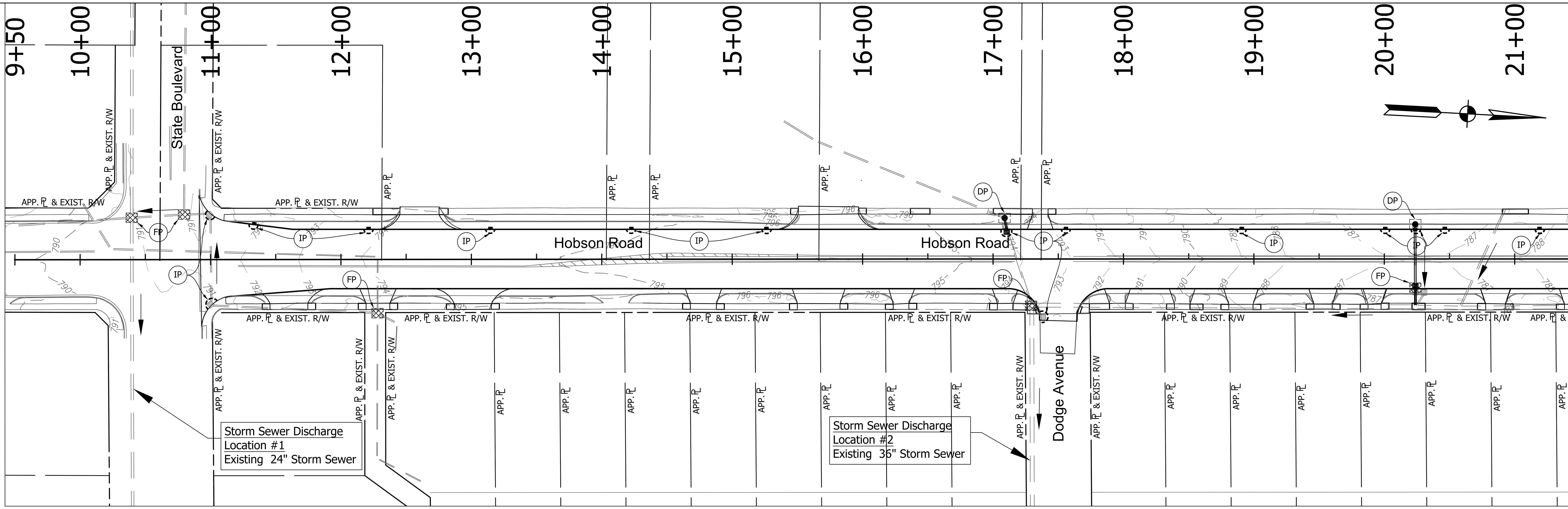
SCALE:	1" = 20'

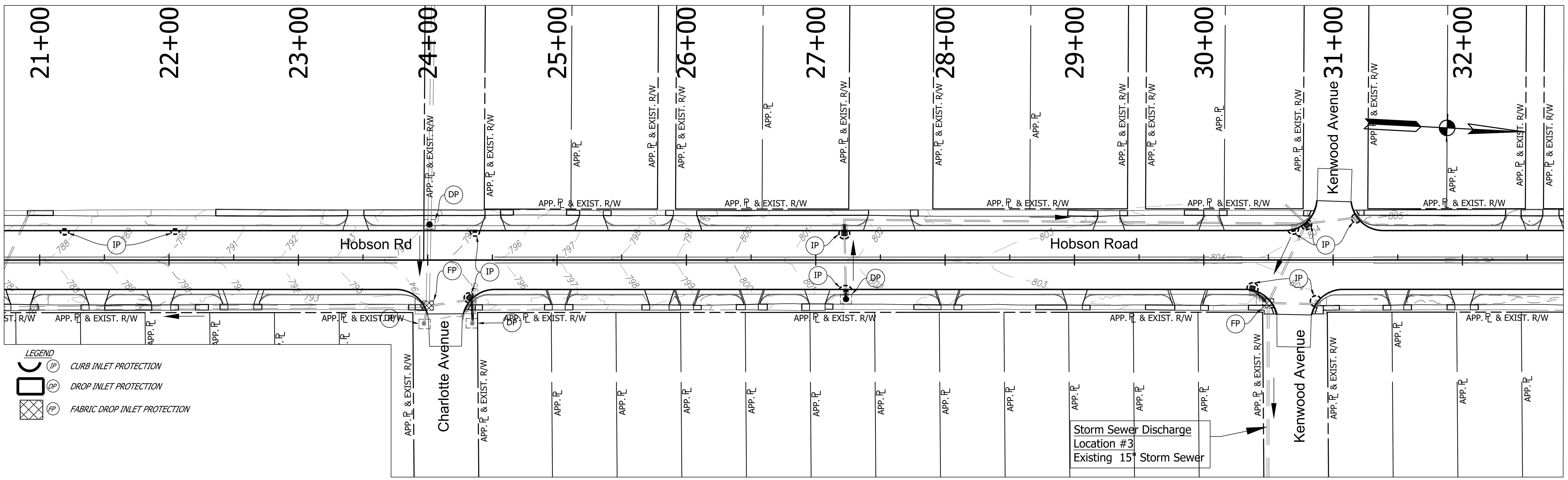
HOBSON ROAD REHABILITITATION

BIOSWALE DETAILS

DRAWING NO.

G17





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PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

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DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	H=1:40

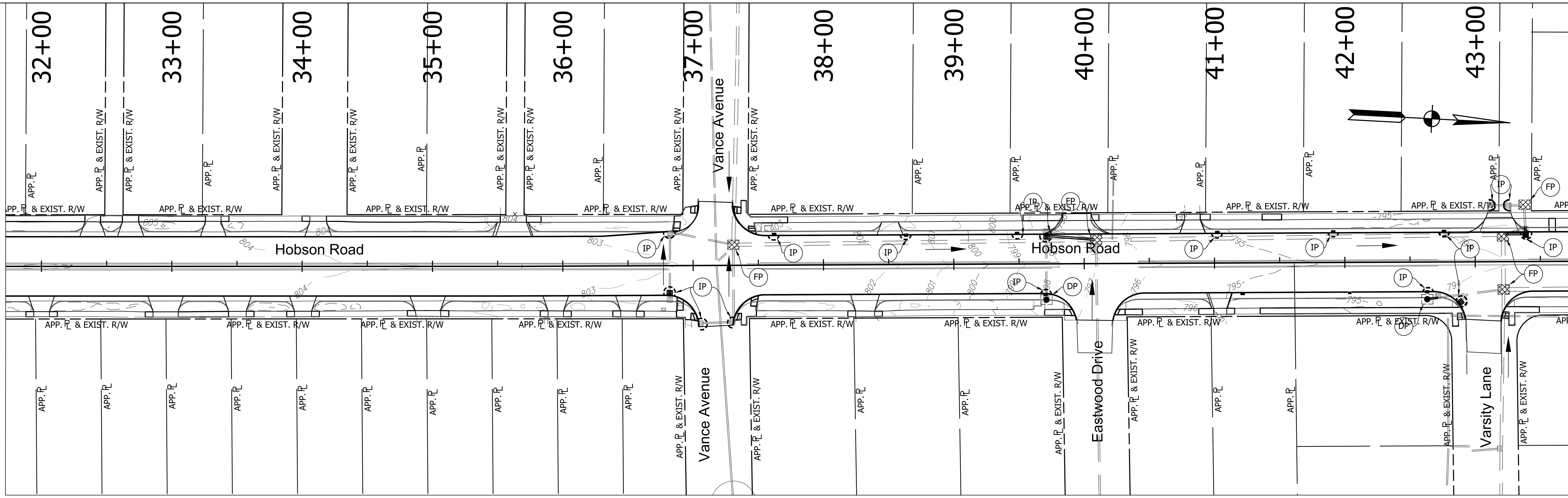
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

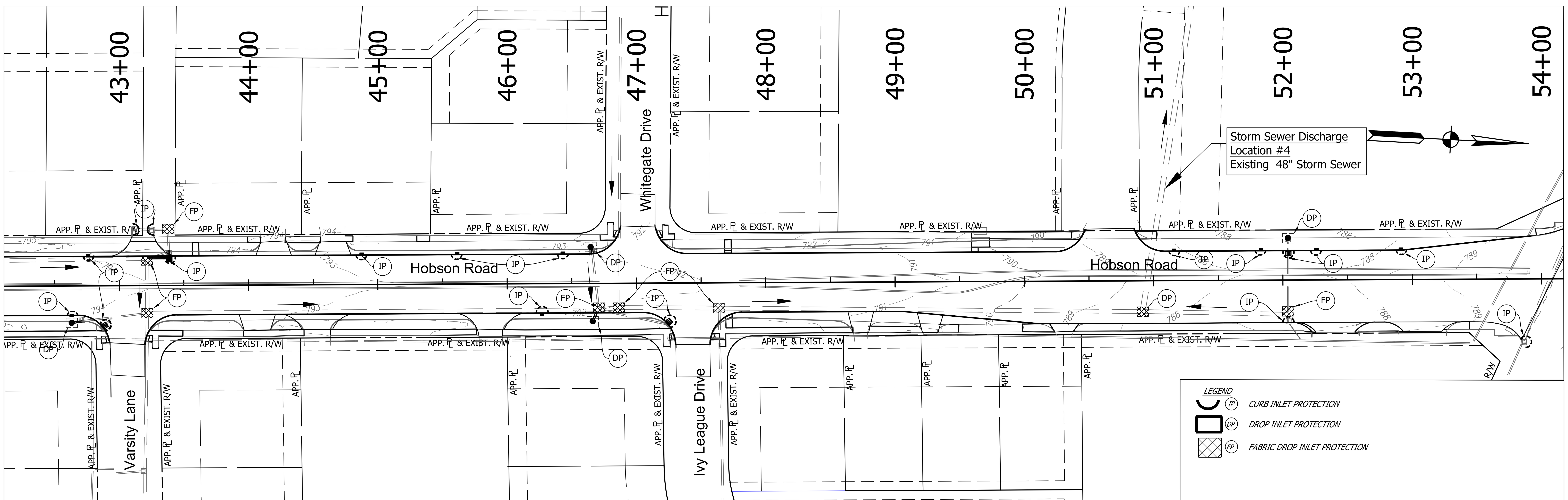
HOBSON ROAD REHABILITITATION

EROSION CONTROL

DRAWING NO.

EC1





-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
www.vsengineering.com
Phone: (260) 489-6635
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DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	H=1:40

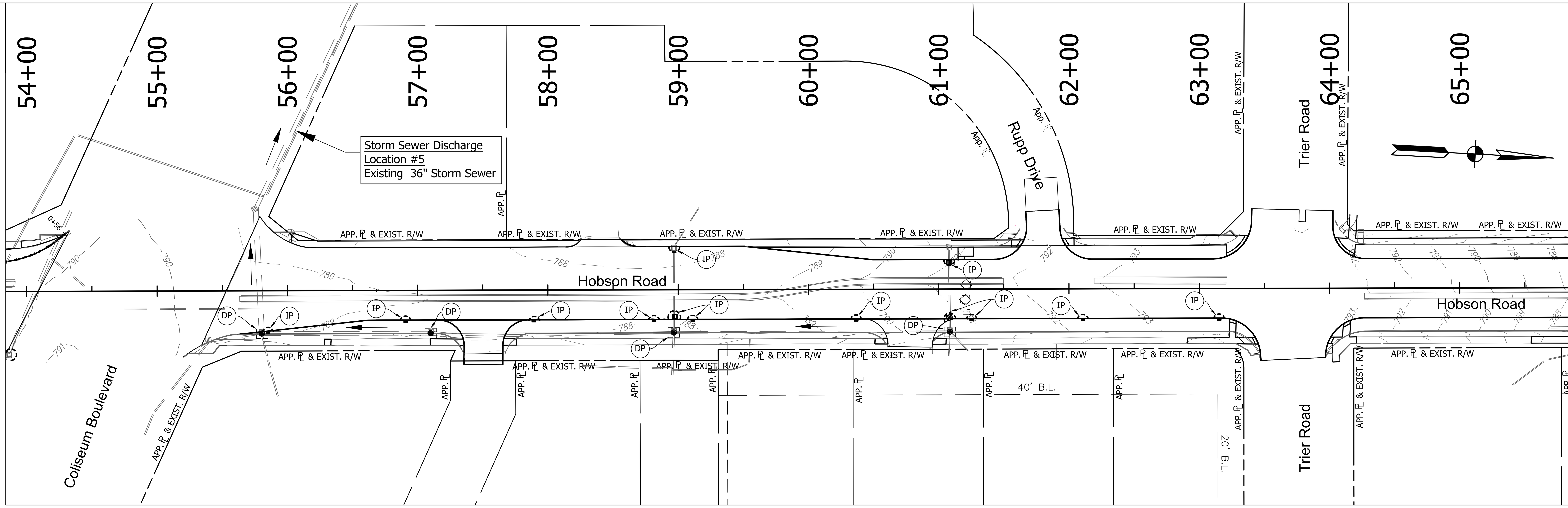
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

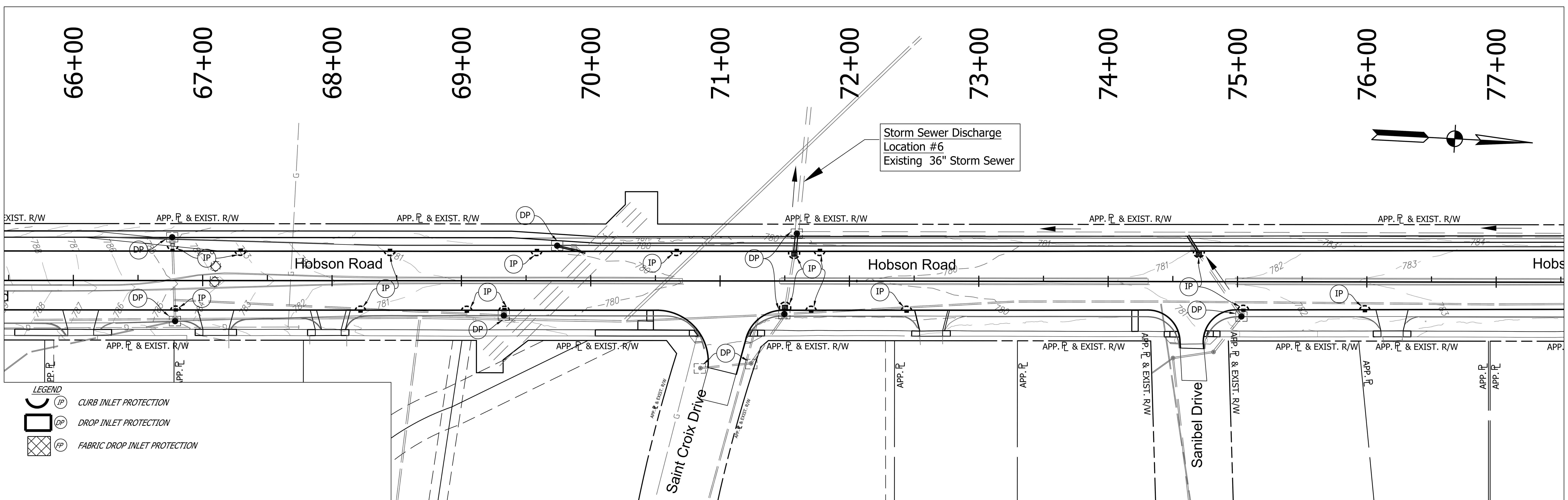
HOBSON ROAD REHABILITITATION

EROSION CONTROL

DRAWING NO.

EC2





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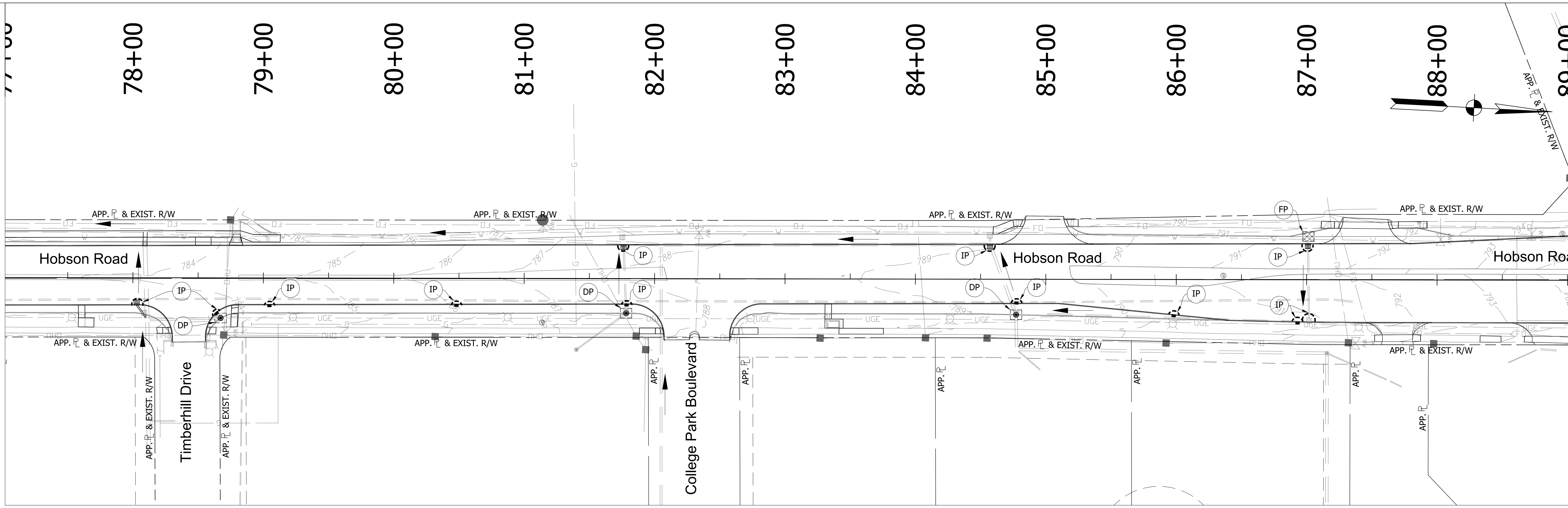
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

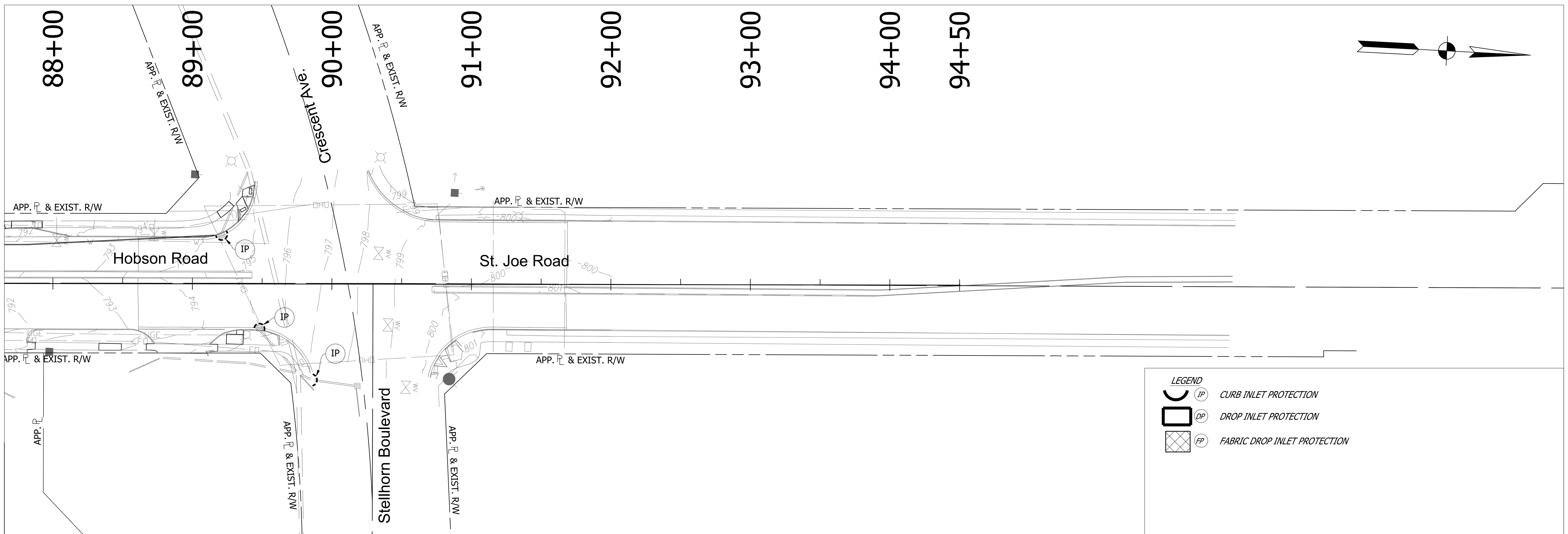
HOBSON ROAD REHABILITITATION

EROSION CONTROL

DRAWING NO.

EC3





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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

EROSION CONTROL

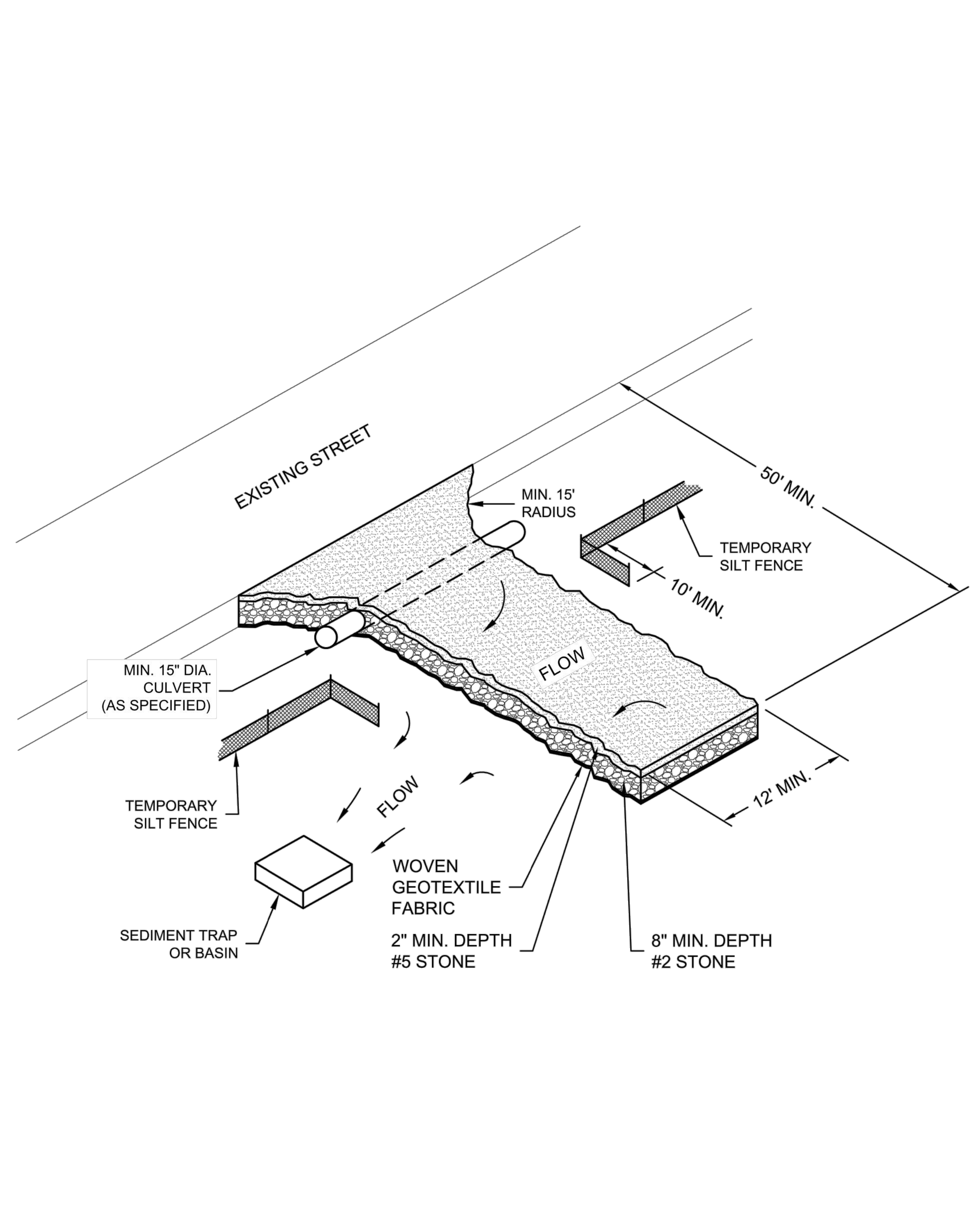
DRAWING NO.

EC4

Fort Wayne City Utilities Design Standards Manual

TEMPORARY CONSTRUCTION ENTRANCE

Created: November 30, 2011 | Revised: February 9, 2015
Scale: N.T.S. | Approved: May 16, 2012

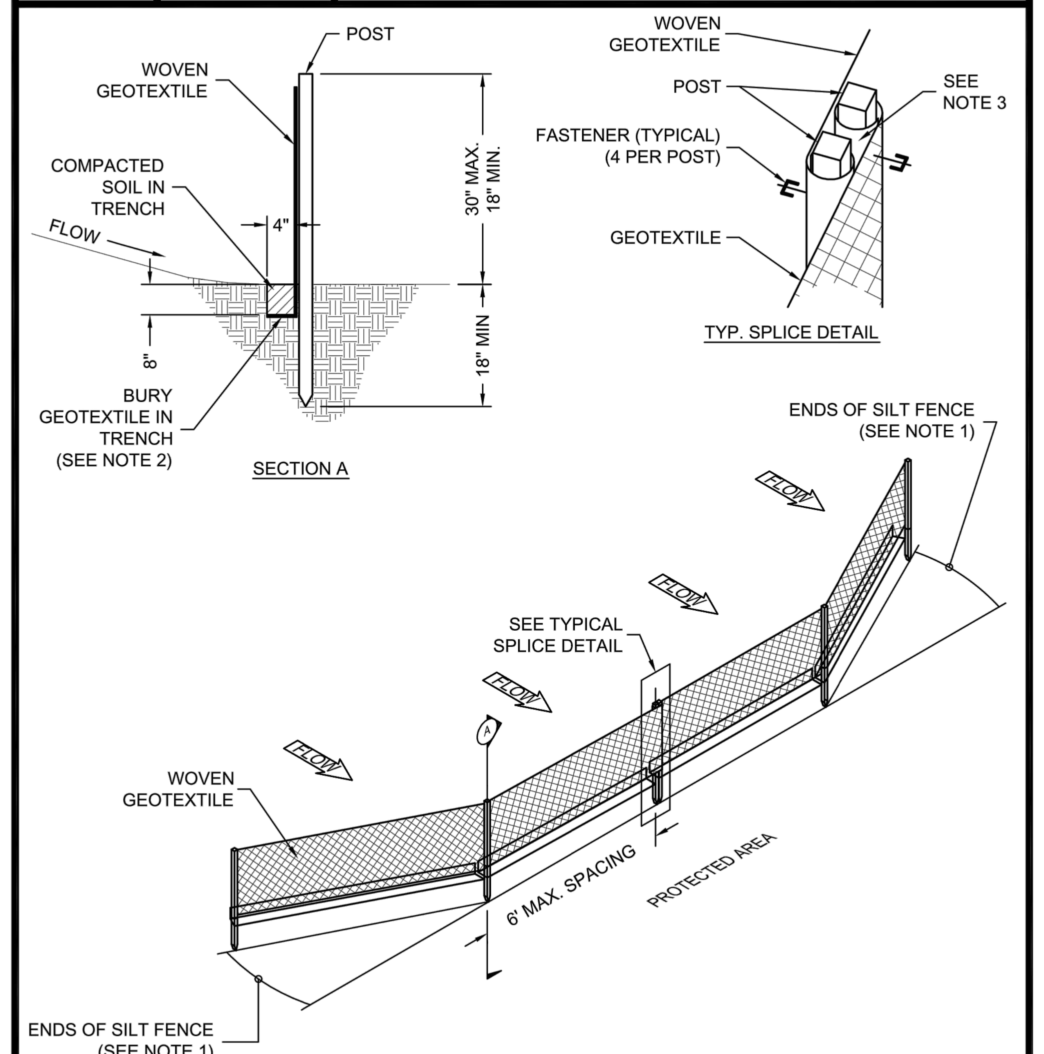


EROS-1

Fort Wayne City Utilities Design Standards Manual

TEMPORARY PERIMETER PROTECTION SILT FENCE

Created: January 1, 2002 | Revised: July 1, 2013
Scale: N.T.S. | Approved: May 16, 2012



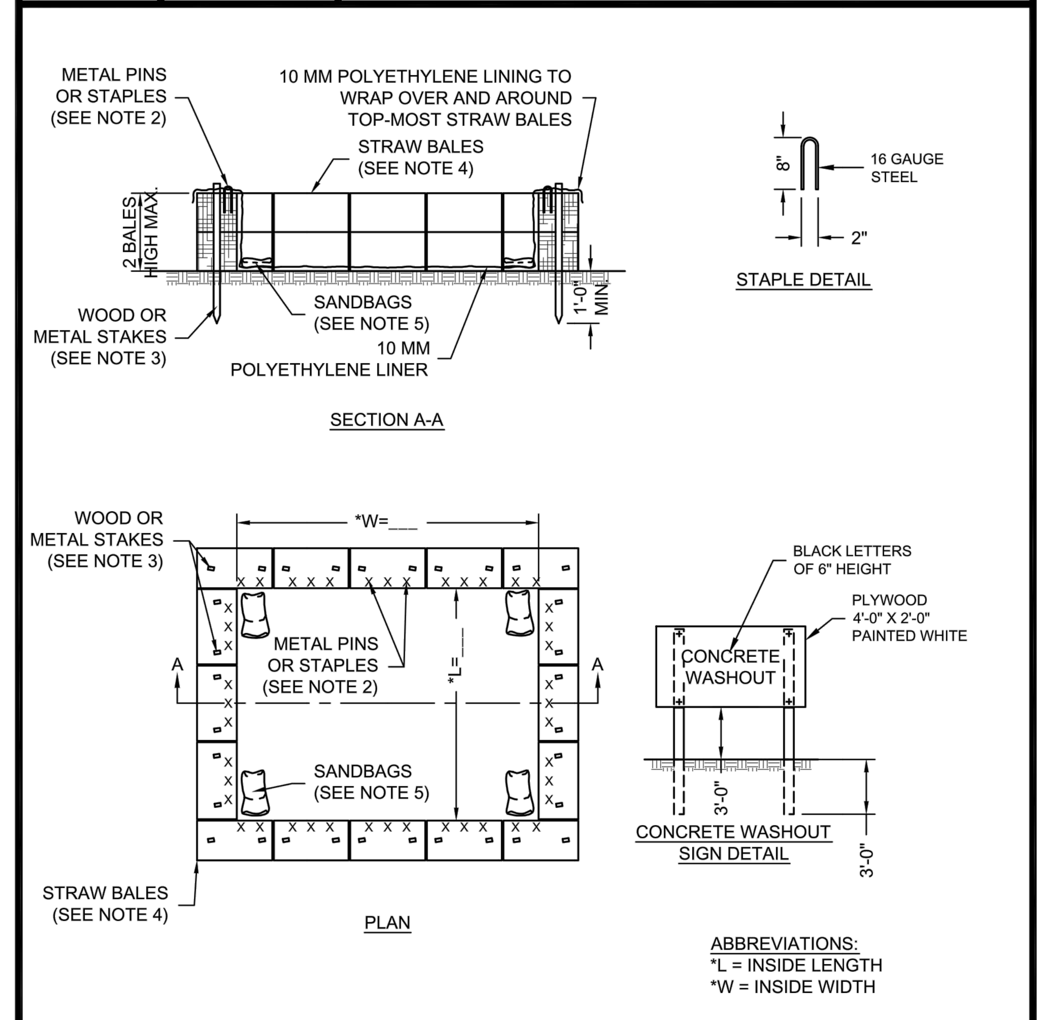
NOTES:
1. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UP-SLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
2. GEOTEXTILE FABRIC LAID ON DOWN-SLOPE SIDE AND BOTTOM OF TRENCH. DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS.
3. SPLICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT-LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SUMP LOCATIONS.

EROS-2-1

Fort Wayne City Utilities Design Standards Manual

CONCRETE WASHOUT - ABOVE GRADE

Created: December 2, 2011 | Revised: August 9, 2013
Scale: N.T.S. | Approved: May 16, 2012



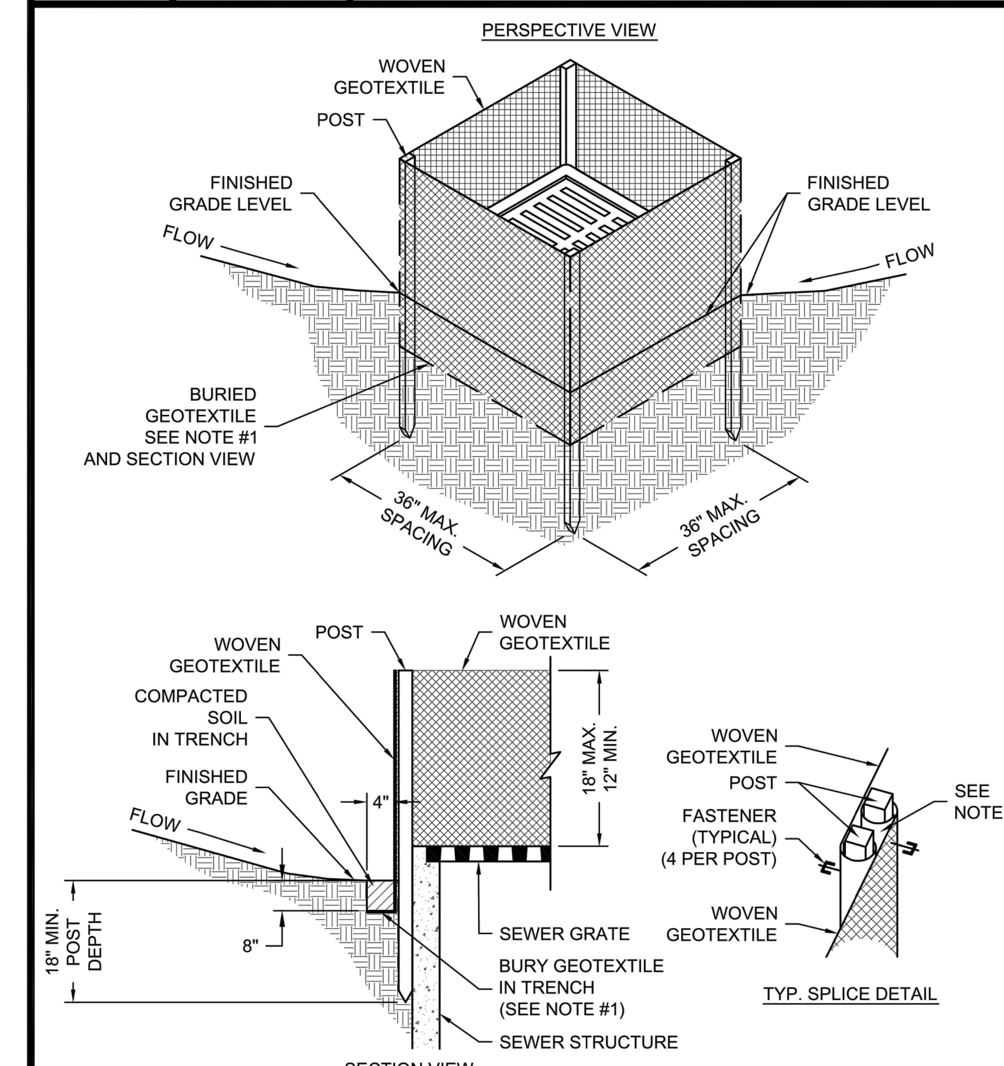
NOTES:
1. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 10 FT. OF THE TEMPORARY CONCRETE WASHOUT UNIT.
2. THE POLYETHYLENE LINER SHALL BE SECURED TO STRAW BALES WITH METAL PINS OR STAPLES.
3. WOOD OR METAL STAKES TO SECURE THE STRAW BALES (2 PER BALE)
4. ALTERNATIVE MATERIALS CAN BE SUBSTITUTED FOR THE STRAW BALES TO PROVIDE STRUCTURAL CONTAINMENT WITH PRIOR APPROVAL FROM CITY UTILITIES PROGRAM MANAGER.
5. SANDBAGS, GRAVEL-FILLED BAGS OR OTHER APPROPRIATE ANCHORING SYSTEM SHALL BE USED TO HOLD POLYETHYLENE LINING DOWN.
6. PREFABRICATED WASHOUT SYSTEMS MAY BE USED WITH PRIOR APPROVAL FROM PROJECT ENGINEER.
7. THE SYMBOL "*" INDICATES A DIMENSION THAT IS TO BE PROVIDED BY THE DESIGNER.

EROS-3-1

Fort Wayne City Utilities Design Standards Manual

TEMPORARY INLET PROTECTION GEOTEXTILE FABRIC

Created: January 9, 2012 | Revised: July 1, 2013
Scale: N.T.S. | Approved: May 16, 2012



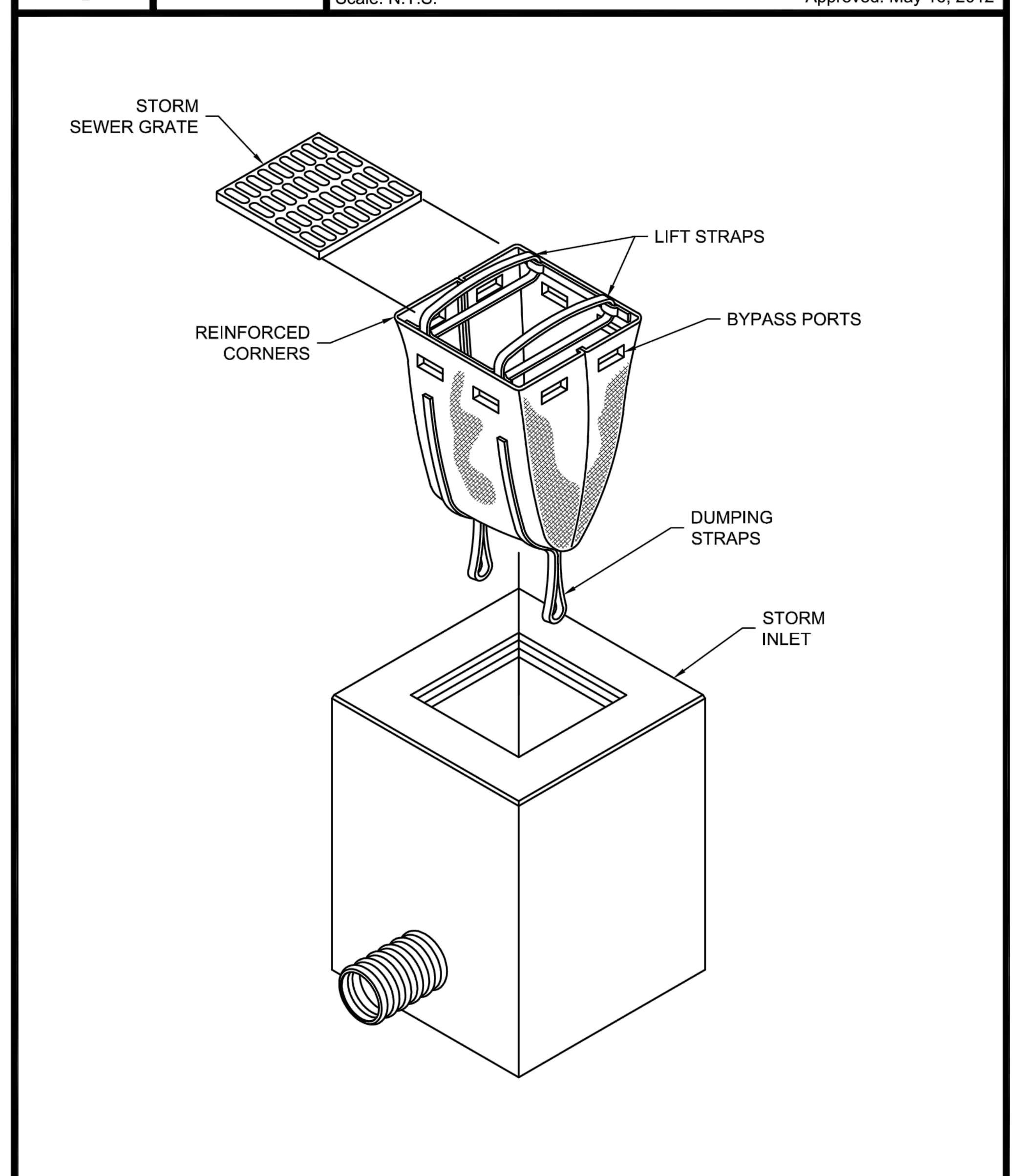
NOTES:
1. GEOTEXTILE FABRIC LAID ON DOWN-SLOPE SIDE AND BOTTOM OF TRENCH ALONG FULL PERIMETER OF SEWER STRUCTURE. DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS.
2. IF SPLICING IS NECESSARY, FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO CREATE A SEAMLESS JOINT AND PREVENT SILT-LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SUMP LOCATIONS.
3. PREFABRICATED UNITS MAY BE USED WITH PRIOR APPROVAL FROM PROJECT ENGINEER.

EROS-6-1

Fort Wayne City Utilities Design Standards Manual

TEMPORARY INLET PROTECTION SEDIMENT CONTROL SACK

Created: January 11, 2012 | Revised: August 9, 2013
Scale: N.T.S. | Approved: May 16, 2012



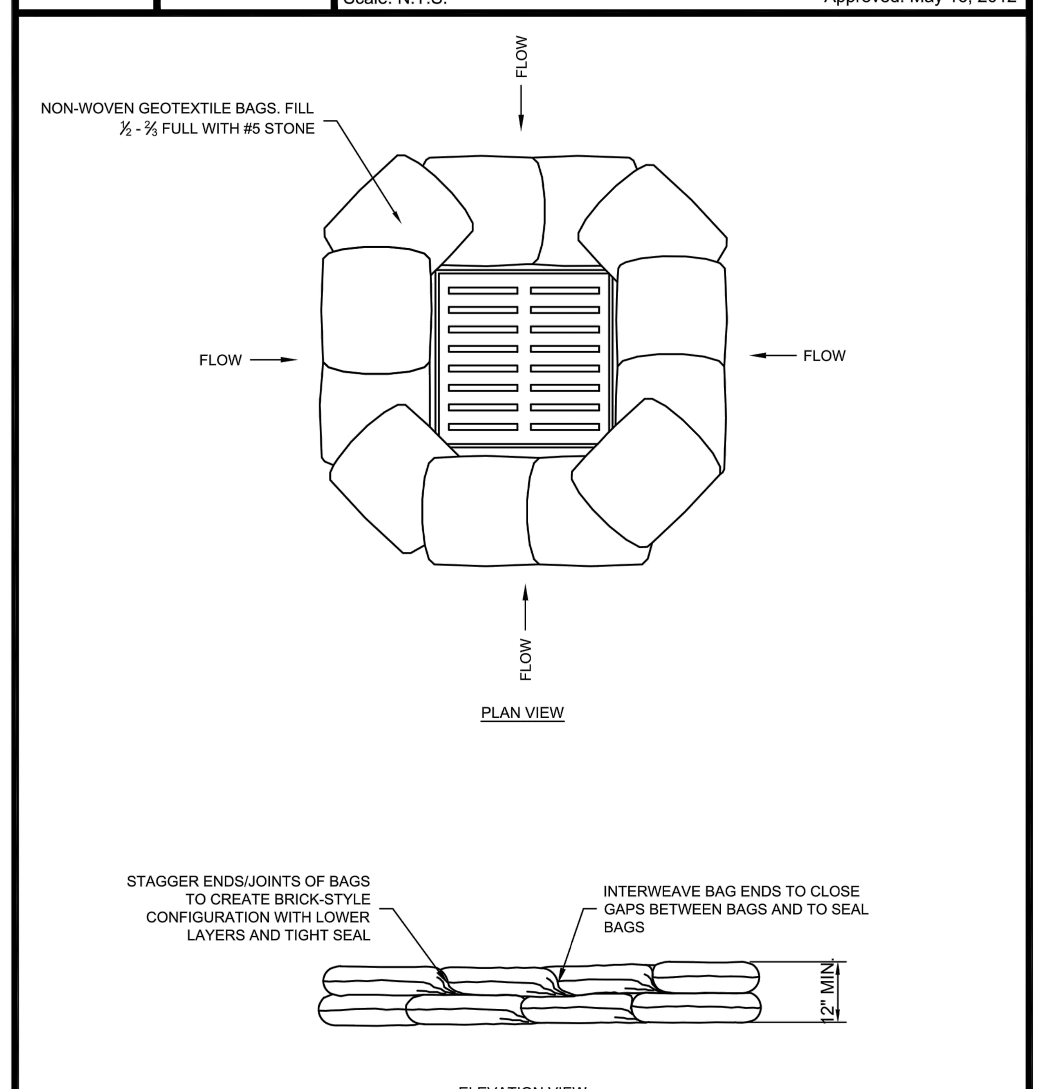
NOTES:
1. REMOVE INLET PROTECTION WHEN THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.

EROS-6-2

Fort Wayne City Utilities Design Standards Manual

TEMPORARY INLET PROTECTION STONE BAGS RING - SUMP

Created: January 10, 2012 | Revised: August 9, 2013
Scale: N.T.S. | Approved: May 16, 2012



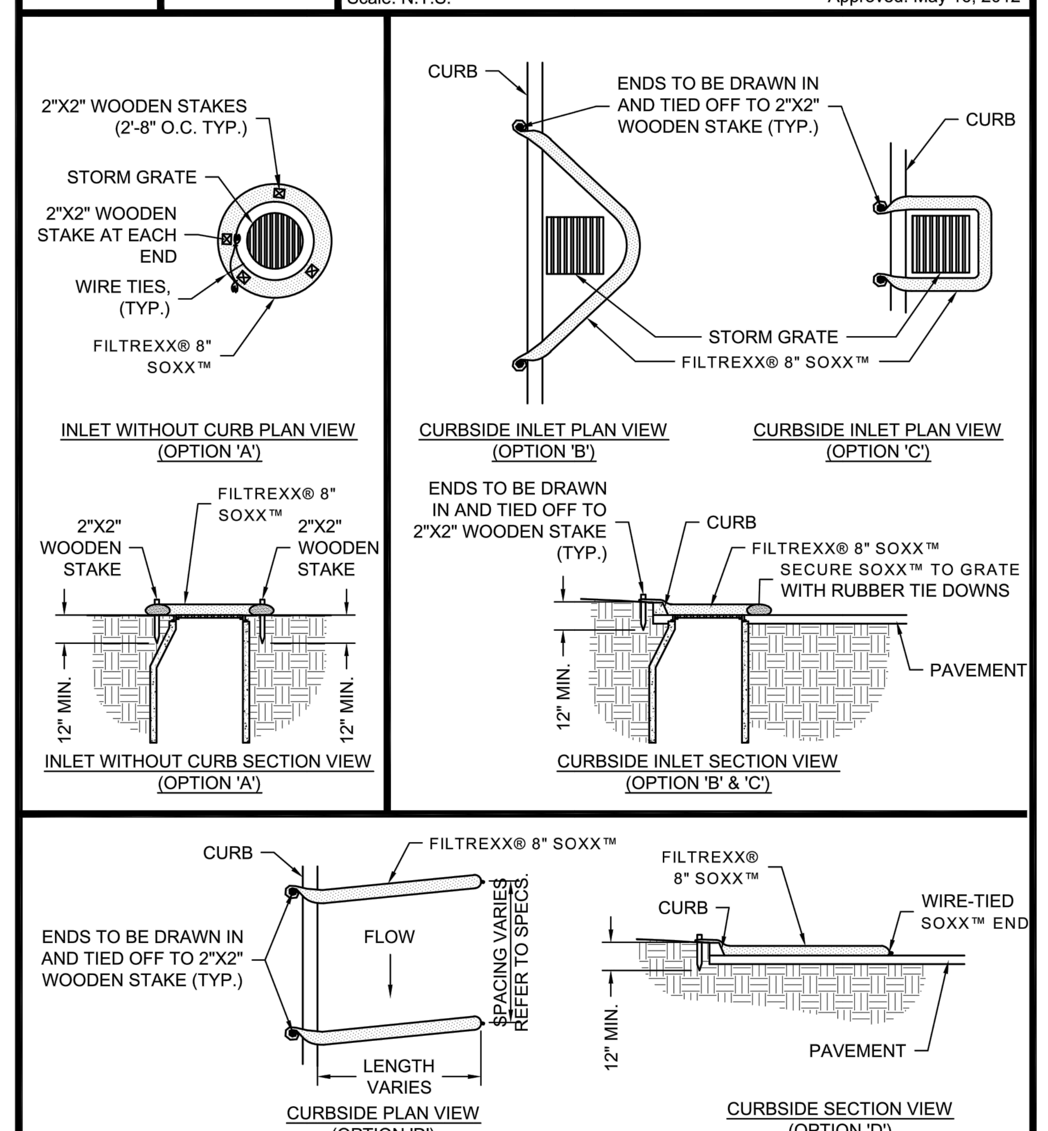
NOTES:
1. REMOVE INLET PROTECTION WHEN THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.

EROS-6-3

Fort Wayne City Utilities Design Standards Manual

TEMPORARY INLET PROTECTION FILTER SOCK

Created: February 28, 2012 | Revised: August 9, 2013
Scale: N.T.S. | Approved: May 16, 2012



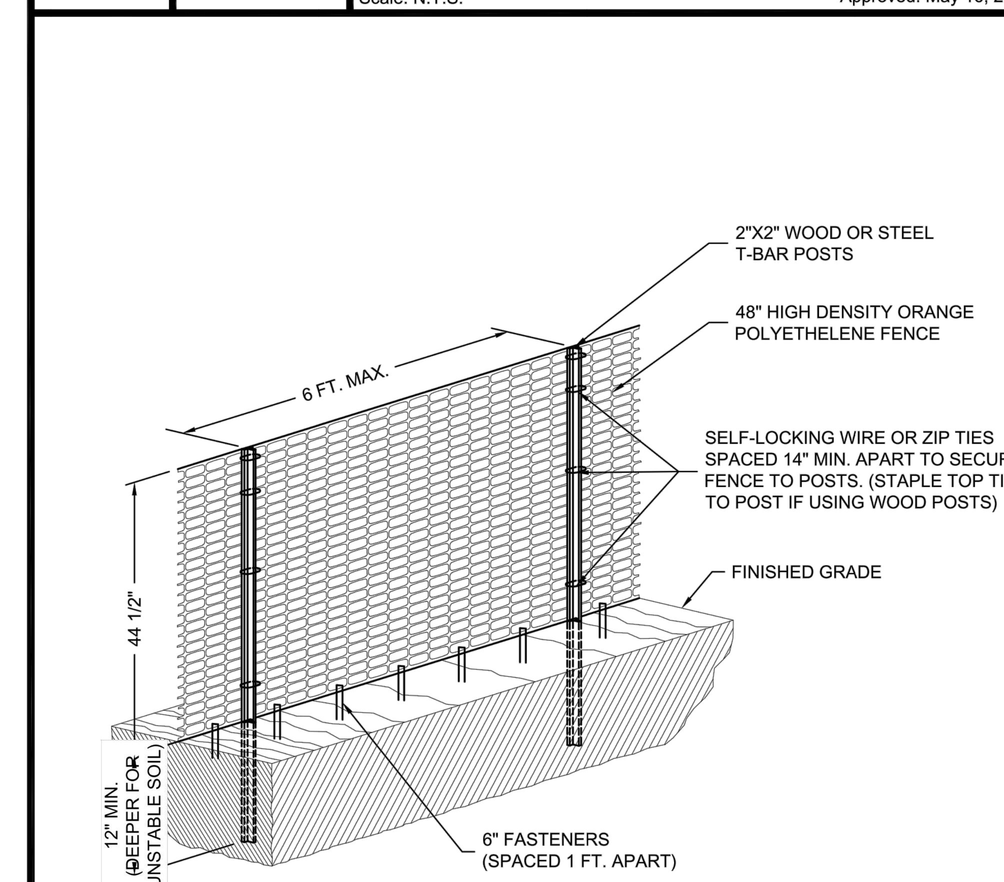
NOTES: (FOR ALL OPTIONS)
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY CITY UTILITIES PROJECT ENGINEER.
4. OPTION 'D' SHOULD NOT BE USED DIRECTLY UPSLOPE FROM DRAIN INLETS.
5. OTHER EQUIVALENT PRODUCTS MAY BE USED WITH PRIOR APPROVAL FROM PROJECT ENGINEER.

EROS-6-6

Fort Wayne City Utilities Design Standards Manual

TEMPORARY 48" CONSTRUCTION FENCE

Created: March 24, 2011 | Revised: July 2, 2013
Scale: N.T.S. | Approved: May 16, 2012



NOTES:
1. FENCE SHOULD BE FASTENED SECURELY TO THE WOOD OR STEEL T-POSTS.
2. FENCE MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION. ANY CHANGE OF THE CONSTRUCTION FENCING MUST BE APPROVED BY PROJECT ENGINEER.

EROS-10

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ______, 20__

NOT FOR CONSTRUCTION Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
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DRAWN BY: LG
DESIGNED BY: MH
CHECKED BY: HF
DATE: 11/30/15
JOB NO:
SCALE: H=1:40

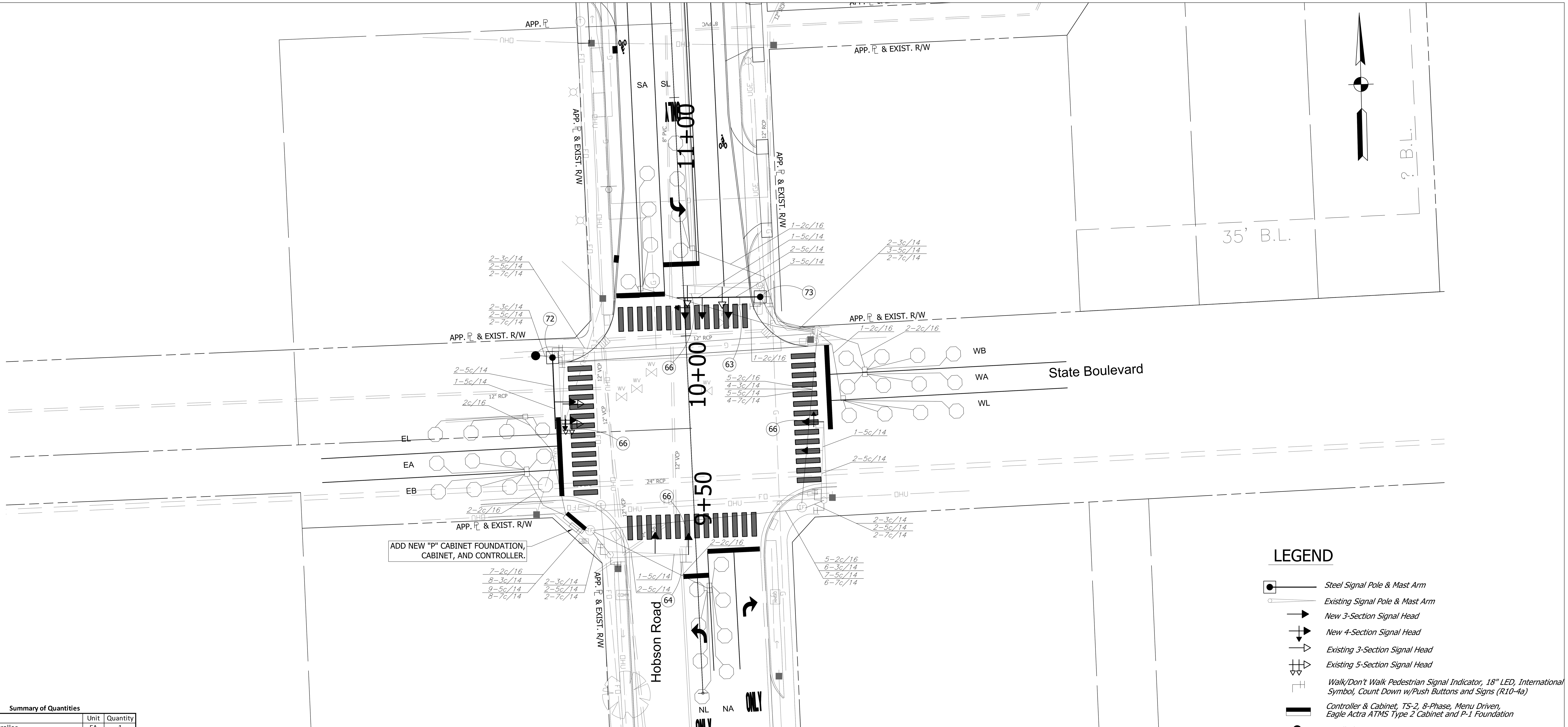
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

EROSION CONTROL

DRAWING NO.

EC5



LEGEND

- Steel Signal Pole & Mast Arm
- Existing Signal Pole & Mast Arm
- New 3-Section Signal Head
- New 4-Section Signal Head
- Existing 3-Section Signal Head
- Existing 5-Section Signal Head
- Walk/Don't Walk Pedestrian Signal Indicator, 18" LED, International Symbol, Count Down w/Push Buttons and Signs (R10-4a)
- Controller & Cabinet, TS-2, 8-Phase, Menu Driven, Eagle Actra ATMS Type 2 Cabinet and P-1 Foundation
- Handhole
- Sheet Sign
- Existing Sheet Sign
- Existing Handhole
- Existing Controller Cabinet
- Conduit, Steel, Galvanized, 2"
- 63 R3-5R (30"x36")
- 64 R3-5L (30"x36")
- 65 Exist. R3-5R (To Remain/Relocate)
- 66 Exist. R3-5L (To Remain/Relocate)
- 68 R10-H12c (24"x30")
- 72 Signal Cantilever Structure, Signal Mast Arm 30 FT. With Drilled Shaft Foundation, Type B
- 73 Signal Cantilever Structure, Signal Mast Arm 35 FT. With Drilled Shaft Foundation, Type B

Summary of Quantities

Item	Unit	Quantity
Cabinet & Controller	EA	1
New Cabinet Foundation, Type P	EA	1
Signal Cantilever Strucutre, Signal Mast Arm 30 FT. With Drilled Shaft Foundation,	EA	1
Signal Cantilever Strucutre, Signal Mast Arm 35 FT. With Drilled Shaft Foundation,	EA	1
Detector Housing	EA	10
Handhole	EA	2
Loop Detector Delay Amplifier, 2 Channel	EA	10
Misc. Equip. for Traffic Signals	EA	1
3-Section Signal Head	EA	6
4-Section Signal Head	EA	3
2" Steel Conduit	LF	698
Sawcut for Roadway Loop & Sealer	LF	1750
Cable, Roadway Loop, 1c/14	LF	4700
Cable, 2c/16	LF	1440
Cable, 3c/14	LF	1680
Cable, 5c/14	LF	2515
Cable, 7c/14	LF	1810
Sheet Sign, 0.080"	SFT	7.5
Pedestrian Signal Head, Contdown, LED, 1	EA	4
Pedestrian Signal Push Button w/Sign	EA	4

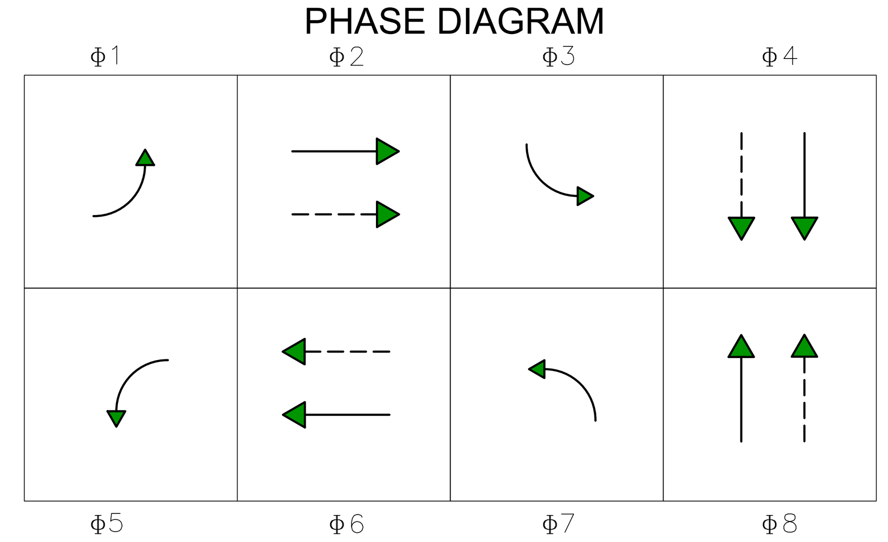
Location Table
Line "H"

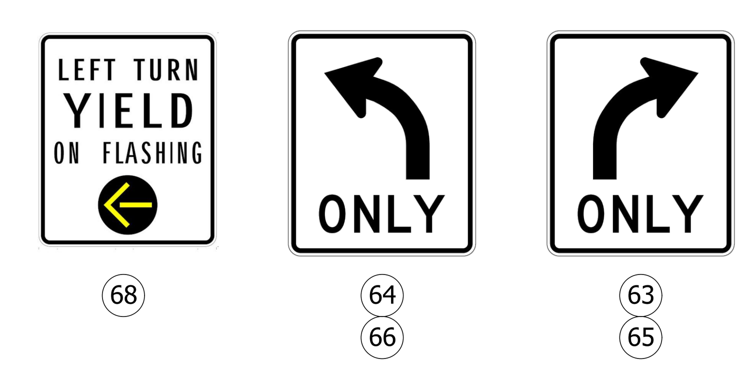
	STATION	OFFSET
SP1	10+94	56.3' L
SP2	11+15	32.6' R
Controller	10+22	50.6' L

LOOP TAGGING TABLE

Lane	Tag No.
NL	NL7-1,2,3,4
NA	NA8-1,2,3,4
EL	EL1-1,2,3,4
EA	EA2-1,2,3,4
EB	EB2-1,2,3,4
SL	SL3-1,2,3,4
SA	SA4-1,2,3,4,5
WL	WL5-1,2,3,4
WA	WA6-1,2,3,4
WB	WA6-1,2,3,4

PHASE DIAGRAM





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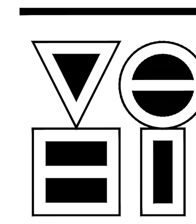

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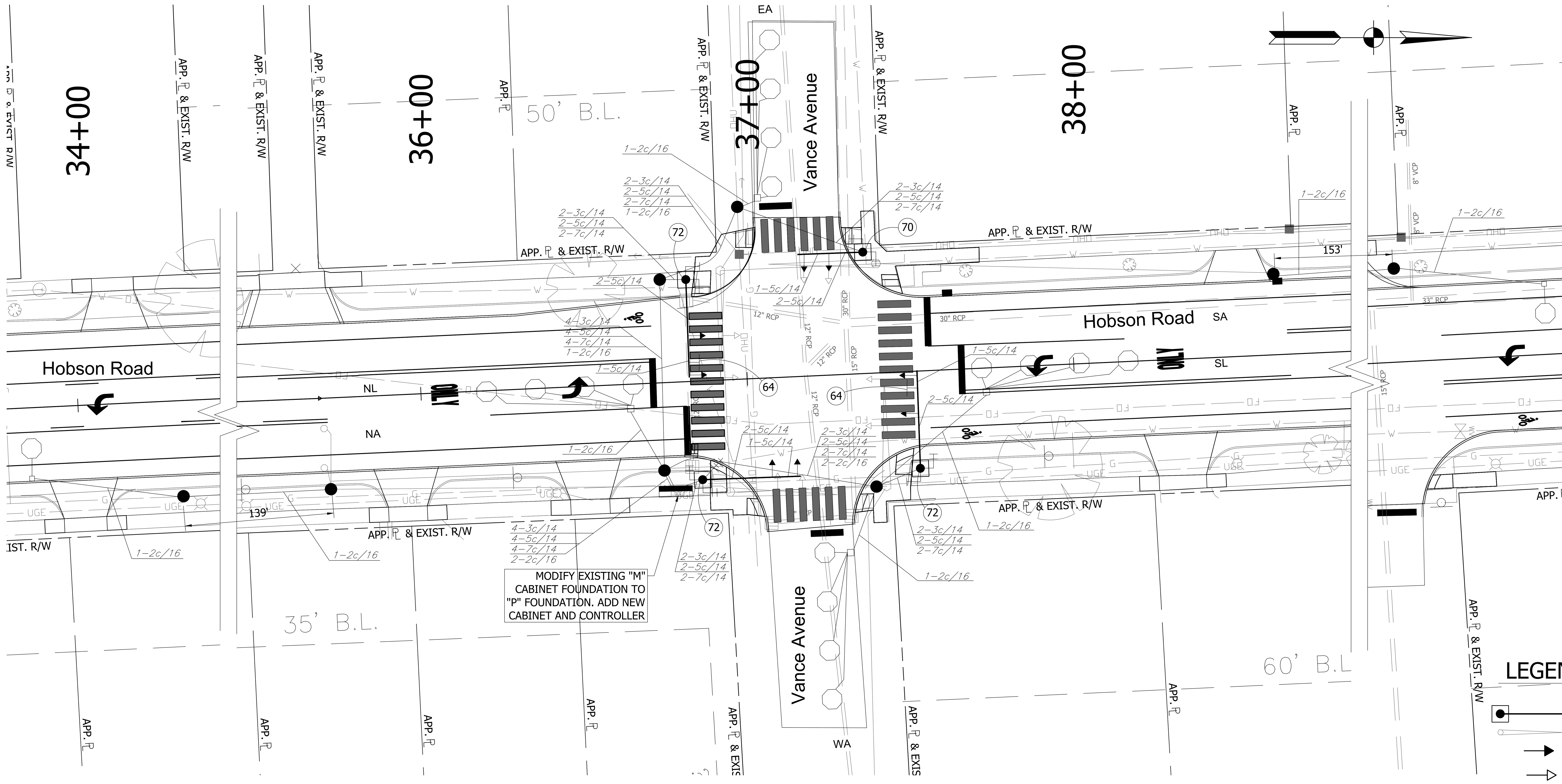
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

SIGNAL PLANS, LINE H

DRAWING NO.

SP1



Summary of Quantities

Item	Unit	Quantity
Cabinet & Controller	EA	1
Modify Existing Cabinet Foundation	EA	1
Signal Cantilever Strucutre, Signal Mast Arm 20 FT. With Drilled Shaft Foundation, Type B	EA	1
Signal Cantilever Strucutre, Signal Mast Arm 30 FT. With Drilled Shaft Foundation, Type B	EA	3
Detector Housing, Remove	EA	4
Detector Housing	EA	6
Handhole	EA	8
Loop Detector Delay Amplifier, 2 Channel	EA	8
Misc. Equip. for Traffic Signals	EA	1
3-Section Signal Head	EA	8
2" Steel Conduit	LF	811
Sawcut for Roadway Loop & Sealer	LF	750
Cable, Roadway Loop, 1c/14	LF	2040
Cable, 2c/16	LF	895
Cable, 3c/14	LF	1080
Cable, 5c/14	LF	1405
Cable, 7c/14	LF	1080
Sheet Sign, 0.080"	SFT	15
Pedestrian Signal Head, Contdown, LED, 1	EA	8
Pedestrian Signal Push Button w/Sign	EA	8

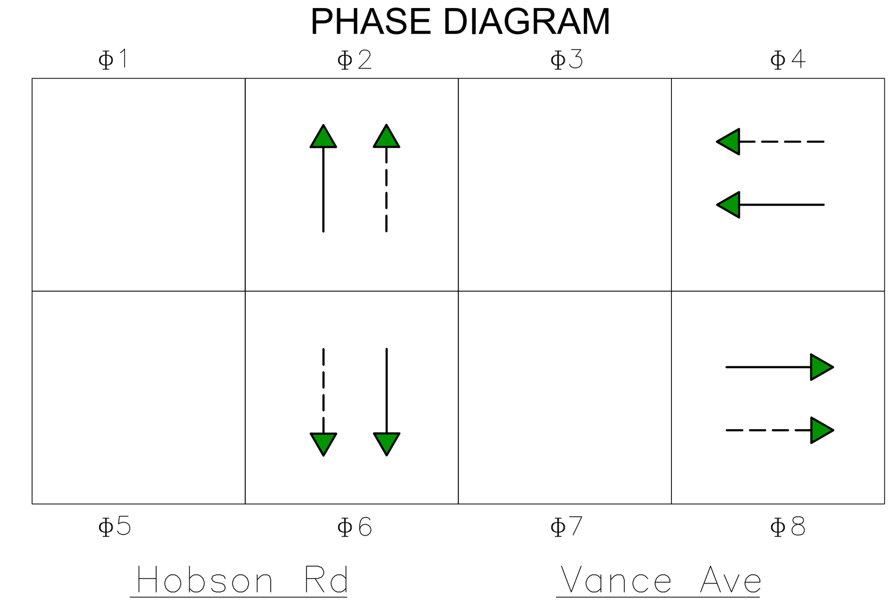
Location Table
Line "H"

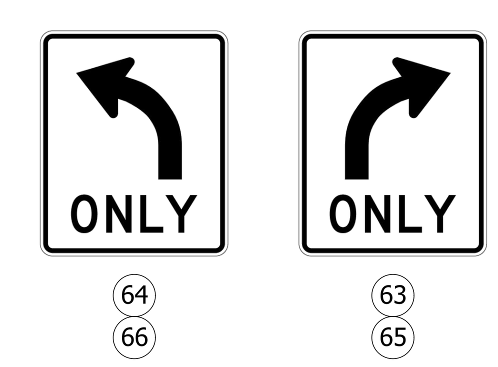
	STATION	OFFSET
SP1	36+83	31.0' L
SP2	37+37	37.0' L
SP3	37+52	29.9' R
SP4	36+85	30.2' R
Controller	36+77	33.3' R

Loop Tagging Table

Lane	Tag No.
NA	NA2-1
NL	NL2-1,2,3,4
EA	EA8-1,2,3,4
SA	SA6-1
SL	SL6-1,2,3,4
WA	WA4-1,2,3,4

PHASE DIAGRAM





LEGEND

- Steel Signal Pole & Mast Arm
- Existing Signal Pole & Mast Arm
- New 3-Section Signal Head
- Existing 3-Section Signal Head
- Walk/Don't Walk Pedestrian Signal Indicator, 18" LED, International Symbol, Count Down w/Push Buttons and Signs (R10-4a)
- Radio, Yagi Antenna
- Controller & Cabinet, TS-2, 8-Phase, Menu Driven, Eagle Actra ATMS Type 2 Cabinet and P-1 Foundation
- Handhole
- Sheet Sign
- Existing Sheet Sign
- Existing Handhole
- Existing Controller Cabinet
- Conduit, Steel, Galvanized, 2"
- 63 R3-5R
- 64 R3-5L
- 65 Exist. R3-5R (To Remain)
- 66 Exist. R3-5L (To Remain/Relocate)
- 68 R10-H12c (24"x30")
- 70 Signal Cantilever Structure, Signal Mast Arm 20 FT. With Drilled Shaft Foundation, Type B
- 72 Signal Cantilever Structure, Signal Mast Arm 30 FT. With Drilled Shaft Foundation, Type B

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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

SIGNAL PLANS, LINE H

DRAWING NO.

SP2

GENERAL NOTES:

1. EXISTING SIGNAL HEADS HAVE ALREADY BEEN UPDATED. REALIGN SIGNAL HEADS TO NEW LANE CONFIGURATION. ONE NEW 3-SECTION SIGNAL HEAD WITH RIGHT TURN ARROWS WILL BE ADDED FOR EACH NB AND SB RIGHT TURN LANES.
2. CONTRACTOR SHALL REMOVE ALL DETECTOR HOUSINGS WHICH ARE NO LONGER IN SERVICE.

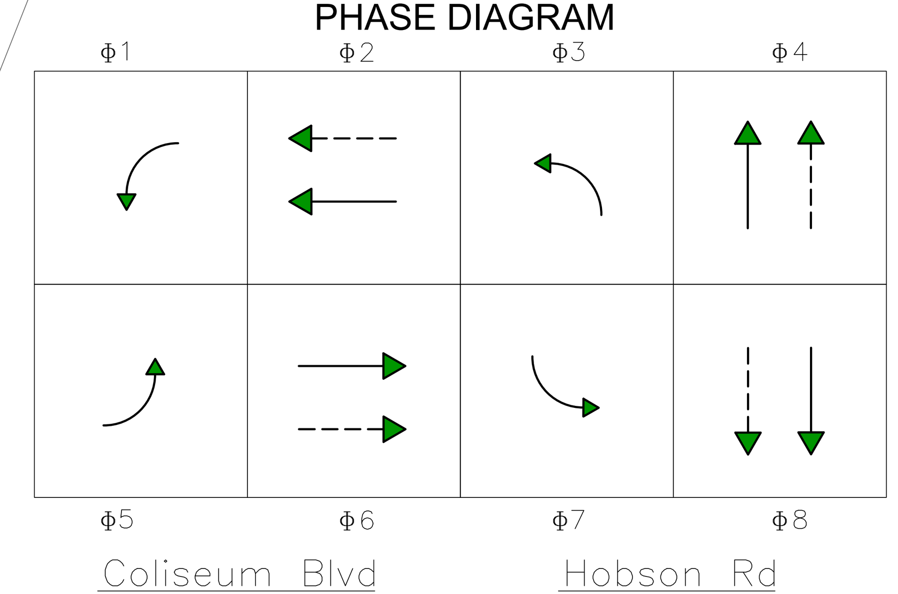
Summary of Quantities

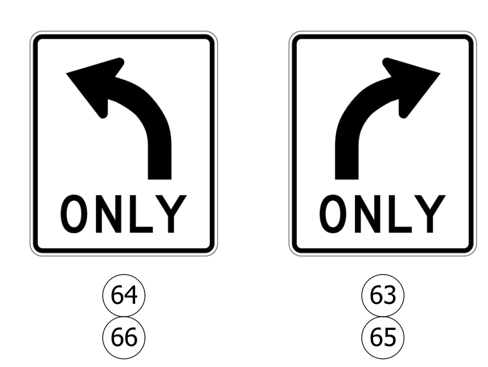
Item	Unit	Quantity
Detector Housing, Remove	EA	4
Detector Housing	EA	4
Loop Detector Delay Amplifier, 2 Channel	EA	4
Misc. Equip. for Traffic Signals	EA	1
2" Steel Conduit	LF	470
Sawcut for Roadway Loop & Sealer	LF	580
Cable, Roadway Loop, 1c/14	LF	1520
Cable, 2c/16	LF	530
Sheet Sign, 0.080"	SFT	15

Loop Tagging Table

Lane	Tag No.
NL	NL3–1,2,3,4
NA	NA4–1,2
SL	SL7–1,2,3,4
SA	SA8–1,2

PHASE DIAGRAM





LEGEND

- Existing Signal Pole & Mast Arm
- Existing 3-Section Signal Head
- Existing 4-Section Signal Head
- Existing 5-Section Signal Head
- New 3-Section Signal Head
- New 4-Section Signal Head
- Walk/Don't Walk Pedestrian Signal Indicator, 18" LED, International Symbol, Count Down w/Push Buttons and Signs (R10-4a)
- Controller & Cabinet, TS-2, 8-Phase, Menu Driven, Eagle Actra ATMS Type 2 Cabinet and P-1 Foundation
- Handhole
- Sheet Sign
- Existing Sheet Sign
- Existing Handhole
- Existing Controller Cabinet
- Conduit, Steel, Galvanized, 2"
- 63 R3-5R
- 64 R3-5L
- 65 Exist. R3-5R (To Remain)
- 66 Exist. R3-5L (To Remain)

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

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SCALE:	

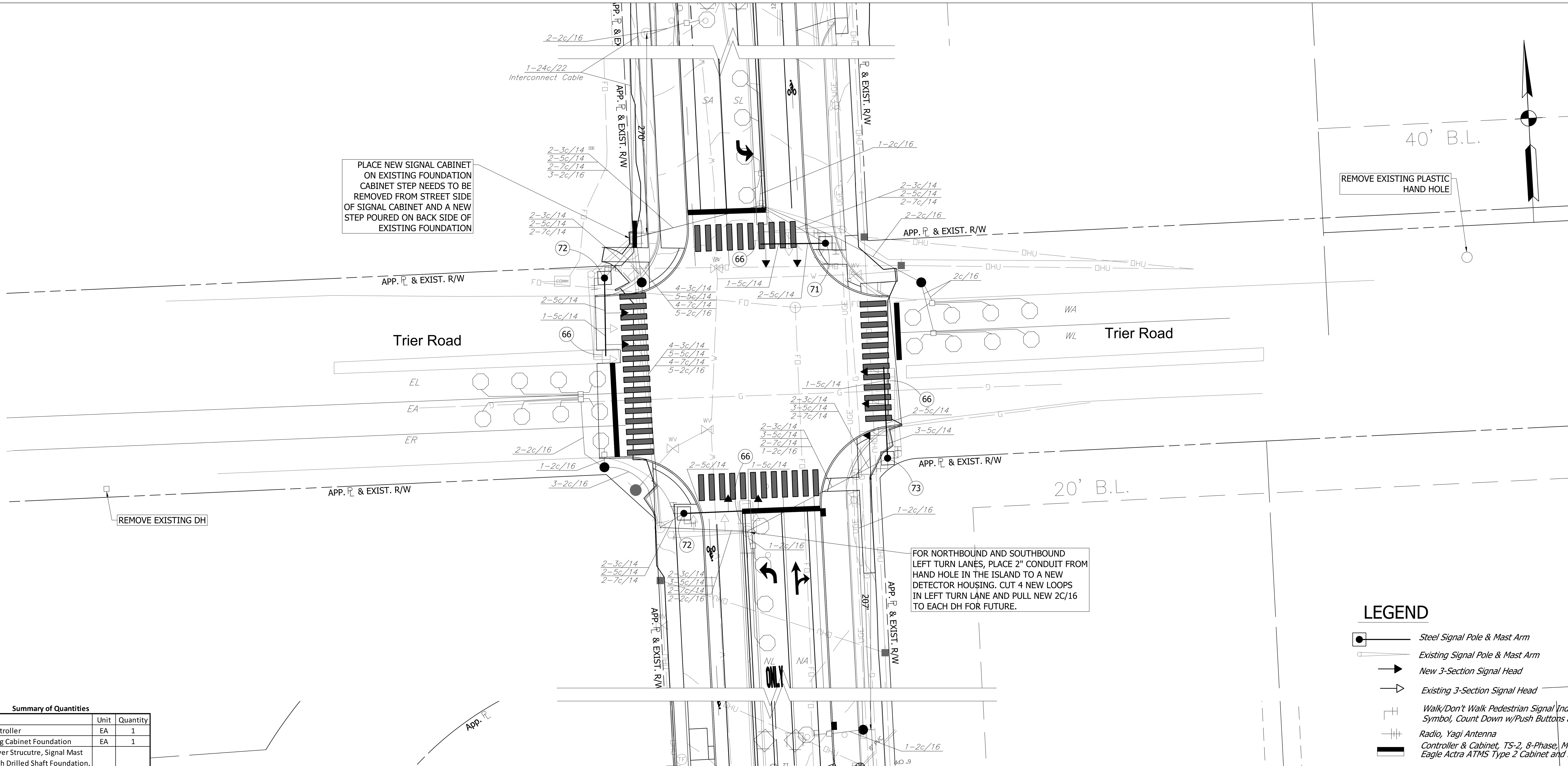
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

SIGNAL PLANS, LINE H

DRAWING NO.

SP3



Summary of Quantities

Item	Unit	Quantity
Cabinet & Controller	EA	1
Modify Existing Cabinet Foundation	EA	1
Signal Cantilever Strucutre, Signal Mast Arm 25 FT. With Drilled Shaft Foundation, Type B	EA	1
Signal Cantilever Strucutre, Signal Mast Arm 30 FT. With Drilled Shaft Foundation, Type B	EA	2
Signal Cantilever Strucutre, Signal Mast Arm 35 FT. With Drilled Shaft Foundation, Type B	EA	1
Detector Housing, Remove	EA	3
Detector Housing	EA	9
Handhole, Remove	EA	1
Handhole	EA	4
Loop Detector Delay Amplifier, 2 Channel	EA	9
Misc. Equip. for Traffic Signals	EA	1
3-Section Signal Head	EA	9
2" Steel Conduit	LF	1025
Sawcut for Roadway Loop & Sealer	LF	1125
Cable, Roadway Loop, 1c/14	LF	3060
Cable, 2c/16	LF	1835
Cable, 3c/14	LF	1160
Cable, 5c/14	LF	1780
Cable, 7c/14	LF	1160
Pedestrian Signal Head, Contdown, LED, 1	EA	8
Pedestrian Signal Push Button w/Sign	EA	8

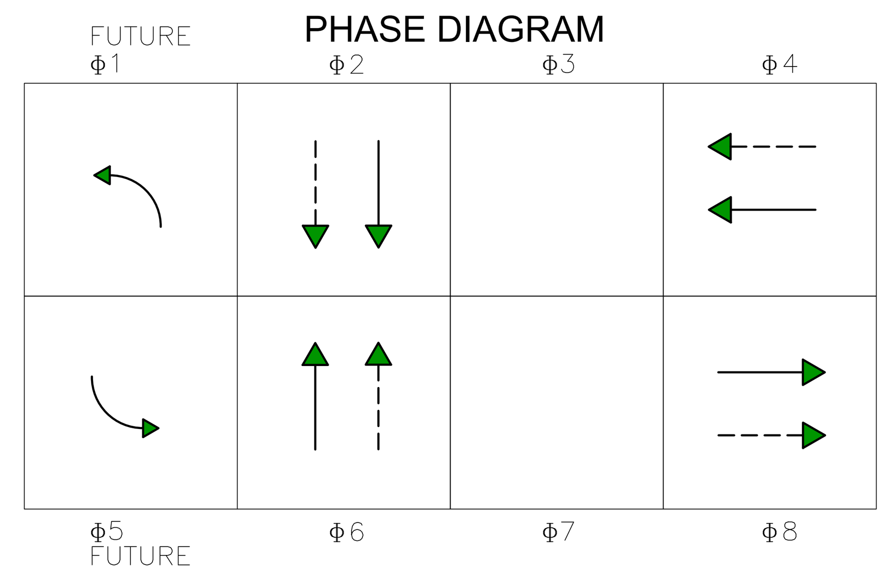
Location Table Line "H"

	STATION	OFFSET
SP1	63+18	29.7' L
SP2	64+09	55.6' L
SP3	64+18	29.7' R
SP4	63+35	49.2' R
Controller	64+24	44.2' R

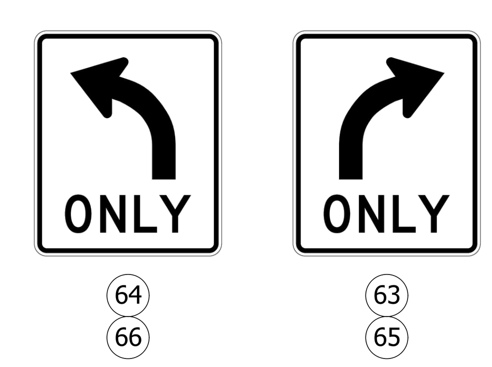
Loop Tagging Table

Lane	Tag No.
NL	NL1-1,2,3,4
NA	NA6-1
EL	EL8-1,2,3,4
EA	EA8-1,2,3,4
ER	ER8-1
SL	SL5-1,2,3,4
SA	SA2-1
WL	WL4-1,2,3,4
WA	WA4-1,2,3,4

PHASE DIAGRAM



Hobson Rd — Trier Rd



LEGEND

- Steel Signal Pole & Mast Arm
- Existing Signal Pole & Mast Arm
- New 3-Section Signal Head
- Existing 3-Section Signal Head
- Walk/Don't Walk Pedestrian Signal Indicator, 18" LED, International Symbol, Count Down w/Push Buttons and Signs (R10-4a)
- Radio, Yagi Antenna
- Controller & Cabinet, TS-2, 8-Phase, Menu Driven, Eagle Actra ATMS Type 2 Cabinet and P-1 Foundation
- Handhole
- Sheet Sign
- Existing Sheet Sign
- Existing Handhole
- Existing Controller Cabinet
- Conduit, Steel, Galvanized, 2"
- 63 R3-5R
- 64 R3-5L
- 65 Exist. R3-5R (Relocate)
- 66 Exist. R3-5L (Relocate)
- 68 R10-H12c (24"x30")
- 71 Signal Cantilever Structure, Signal Mast Arm 25 FT. With Drilled Shaft Foundation, Type B
- 72 Signal Cantilever Structure, Signal Mast Arm 30 FT. With Drilled Shaft Foundation, Type B
- 73 Signal Cantilever Structure, Signal Mast Arm 35 FT. With Drilled Shaft Foundation, Type B

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ______, 20__

NOT FOR CONSTRUCTION Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
www.vsengineering.com
Phone: (260) 489-6635
Fax: (260) 489-6605

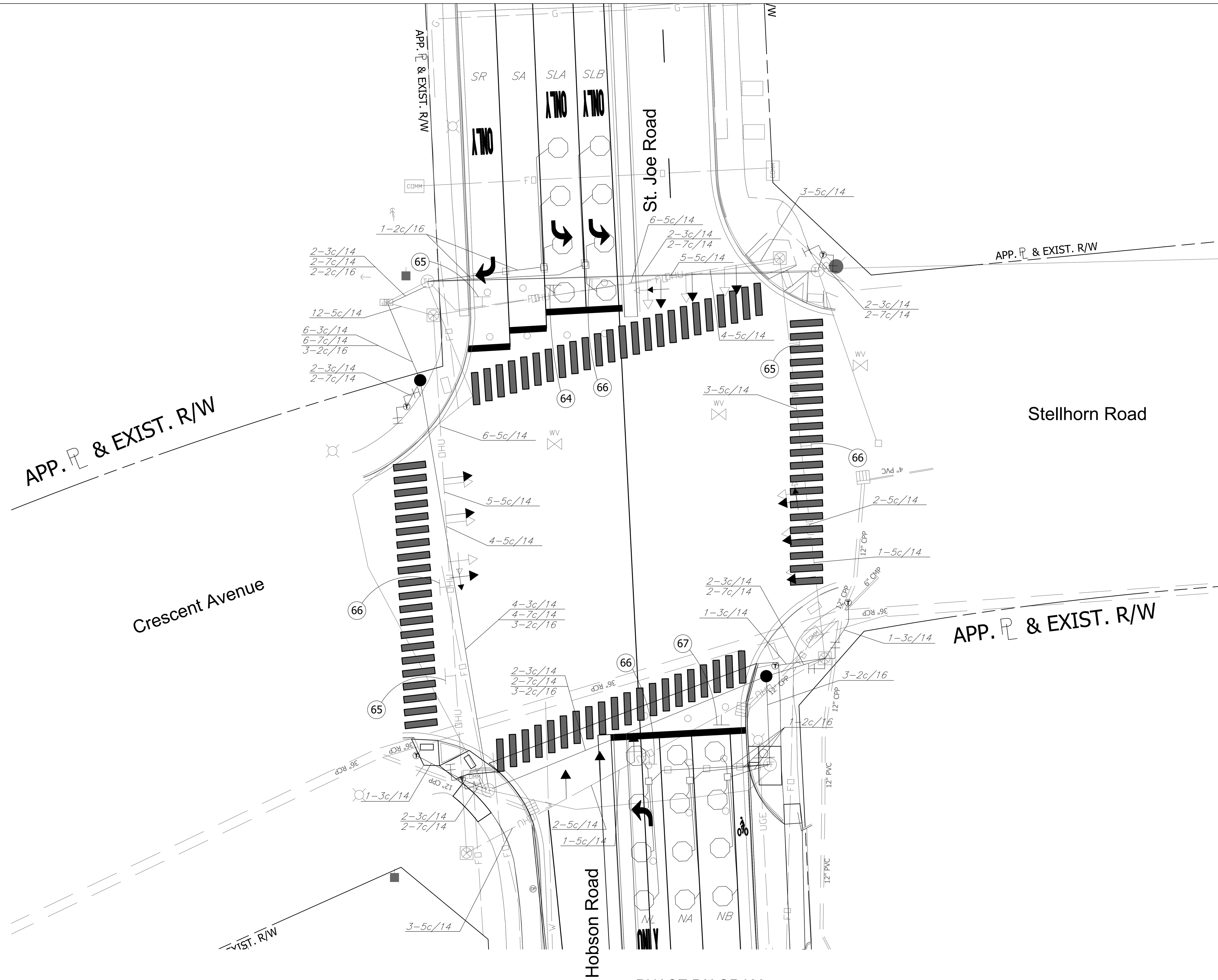
DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	H=1:20

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

SIGNAL PLANS, LINE H

DRAWING NO.
SP4



LEGEND

- Existing Signal Pole & Mast Arm
- Existing 3-Section Signal Head
- Existing 4-Section Signal Head
- New 3-Section Signal Head
- New 4-Section Signal Head
- Walk/Don't Walk Pedestrian Signal Indicator, 18" LED, International Symbol, Count Down w/Push Buttons and Signs (R10-4a)
- Handhole
- Sheet Sign
- Existing Sheet Sign
- Existing Handhole
- Existing Controller Cabinet
- Conduit, Steel, Galvanized, 2"
- T Pedestrian Signal Push Button
- 63 R3-5R
- 64 R3-5L
- 65 Exist. R3-5R (To Remain)
- 66 Exist. R3-5L (To Remain)
- 67 R3-6R
- 68 R10-H12c

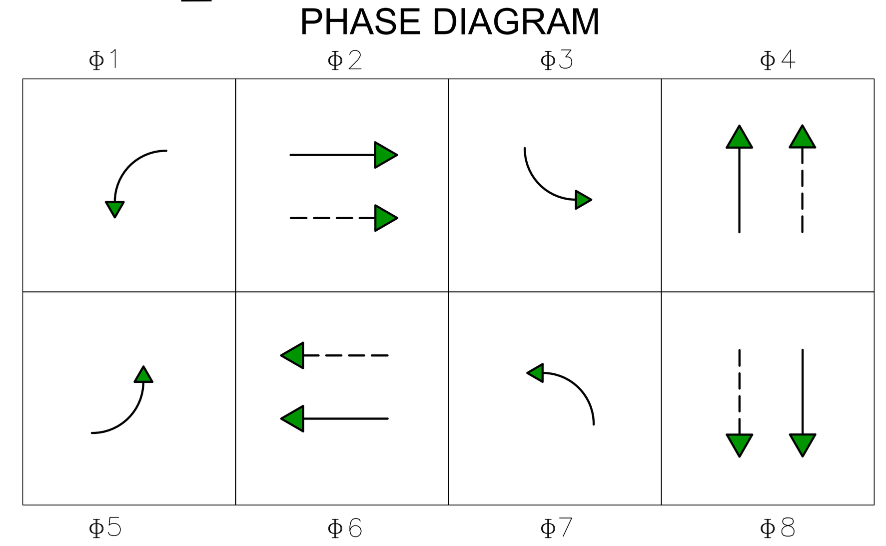
Summary of Quantities

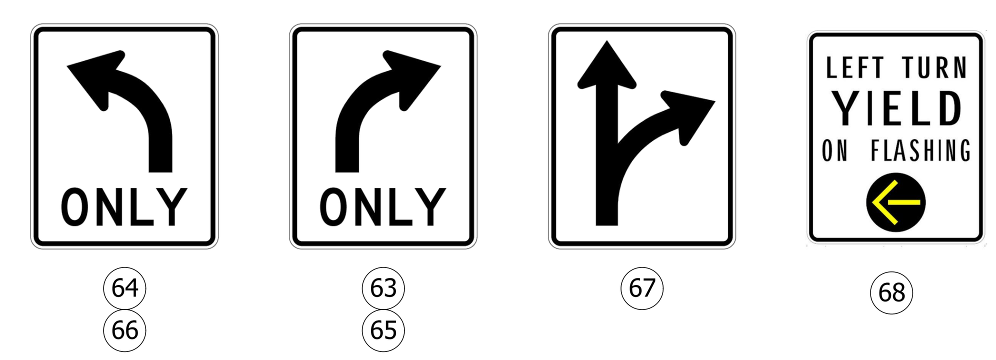
Item	Unit	Quantity
Detector Housing, Remove	EA	6
Detector Housing	EA	5
Handhole	EA	2
Loop Detector Delay Amplifier, 2 Channel	EA	6
Misc. Equip. for Traffic Signals	EA	1
3-Section Signal Head	EA	9
4-Section Signal Head	EA	3
2" Steel Conduit	LF	700
Sawcut for Roadway Loop & Sealer	LF	950
Cable, Roadway Loop, 1c/14	LF	2400
Cable, 2c/16	LF	1200
Cable, 3c/14	LF	1495
Cable, 5c/14	LF	6840
Cable, 7c/14	LF	1460
Pedestrian Signal Head, Contdown, LED, 1	EA	8
Pedestrian Signal Push Button w/Sign	EA	8
Pedestrian Signal Pedistal and Base, 11'	EA	6
Pedestrian Signal Pole Foundation, Type A	EA	6

Loop Tagging Table

Lane	Tag No.
NL	NL7–1,2,3,4
NA	NA4–1,2,3,4
NB	NB4–1,2,3,4
SLA	SLA3–1,2,3,4
SLB	SLB3–1,2,3,4

PHASE DIAGRAM





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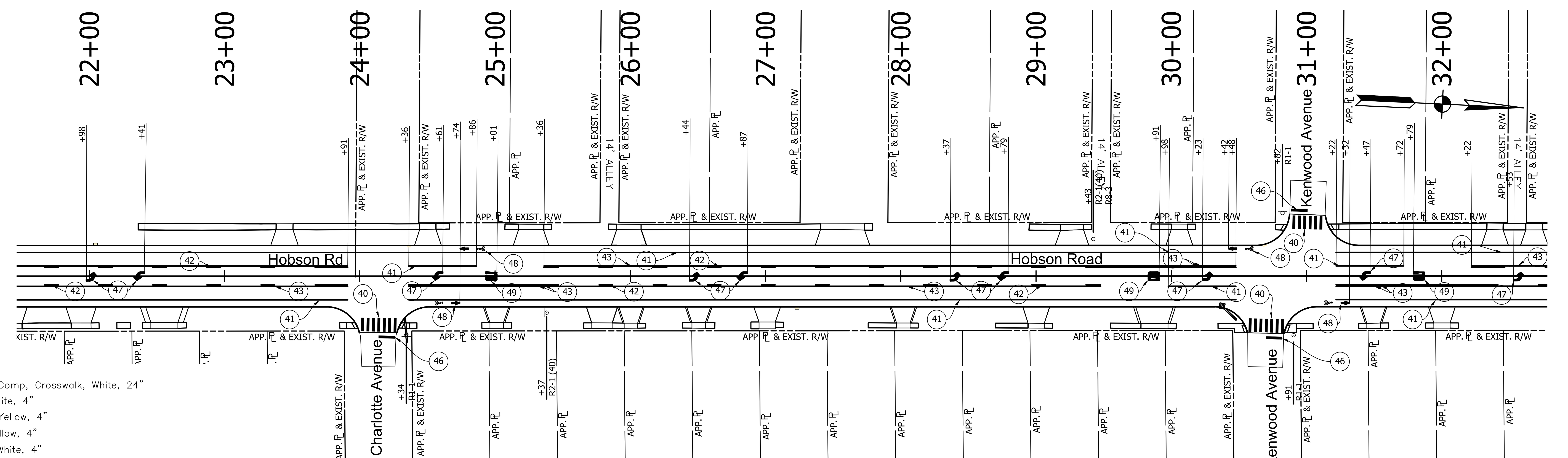
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

SIGNAL PLANS, LINE H

DRAWING NO.

SP5



PAVEMENT MARKING LEGEND

- 40 Transverse Markings, Multi-Comp, Crosswalk, White, 24"
- 41 Line, Multi-Comp, Solid, White, 4"
- 42 Line, Multi-Comp, Broken, Yellow, 4"
- 43 Line, Multi-Comp, Solid, Yellow, 4"
- 44 Line, Multi-Comp, Dotted, White, 4"
- 45 Transverse Markings, Multi-Comp, Solid, Yellow, Crosshatch Line, 12"
- 46 Transverse Markings, Multi-Comp, Stop Line, 24"
- 47 Pavement Message Marking, Multi-Comp, Lane Indication Arrow
- 48 Pavement Message Marking, Multi-Comp, Bike Symbol and Arrow
- 49 Pavement Message Marking, Multi-Comp, Word, "ONLY"

-- REVISIONS --			
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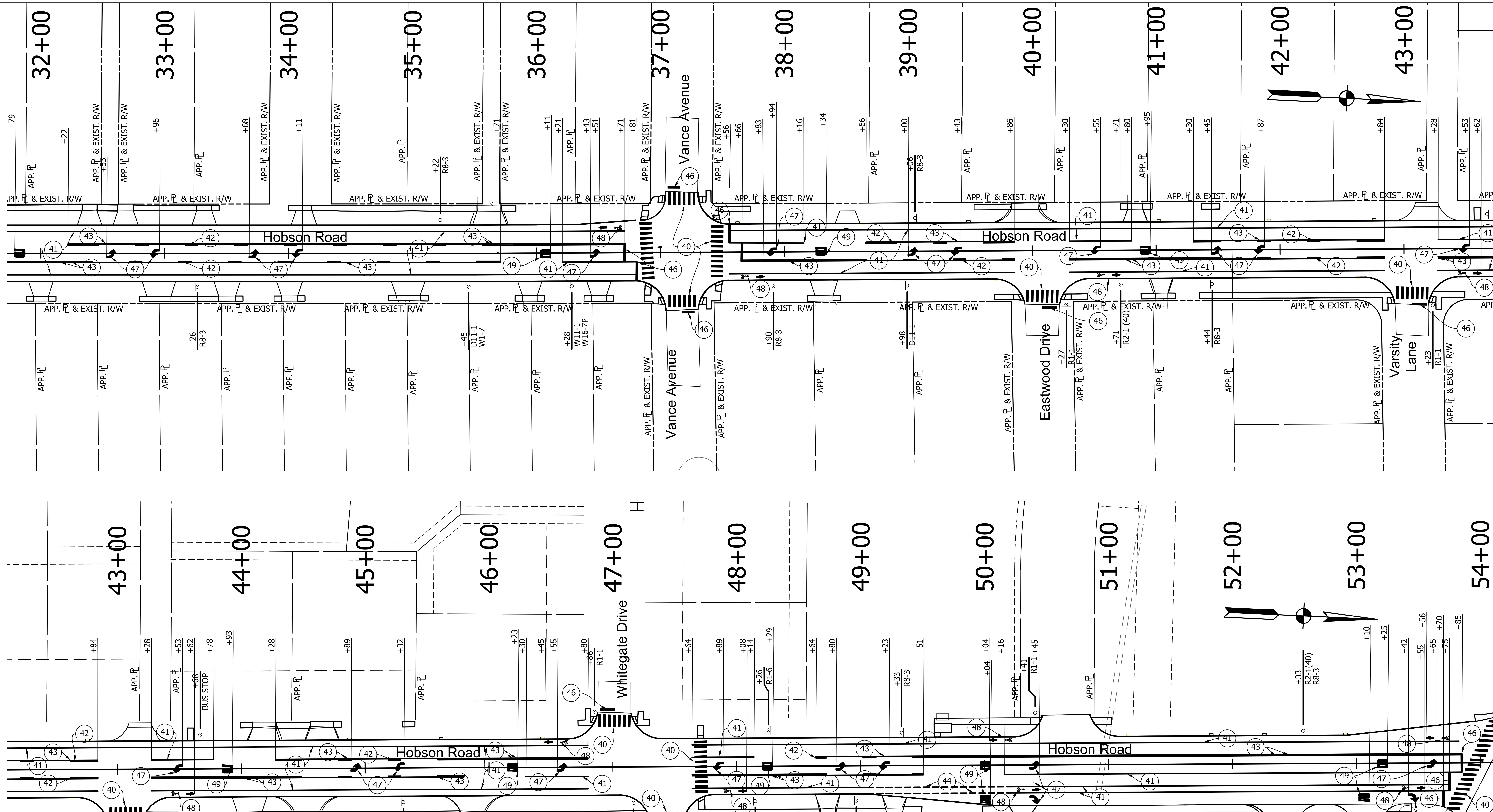
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

PAVEMENT MARKINGS, LINE H

DRAWING NO.

PMP1



PAVEMENT MARKING LEGEND

- (40) Transverse Markings, Multi-Comp, Crosswalk, White, 24"
- (41) Line, Multi-Comp, Solid, White, 4"
- (42) Line, Multi-Comp, Broken, Yellow, 4"
- (43) Line, Multi-Comp, Solid, Yellow, 4"
- (44) Line, Multi-Comp, Dotted, White, 4"
- (45) Transverse Markings, Multi-Comp, Solid, Yellow, Crosshatch Line, 12"
- (46) Transverse Markings, Multi-Comp, Stop Line, 24"
- (47) Pavement Message Marking, Multi-Comp, Lane Indication Arrow
- (48) Pavement Message Marking, Multi-Comp, Bike Symbol and Arrow
- (49) Pavement Message Marking, Multi-Comp, Word, "ONLY"

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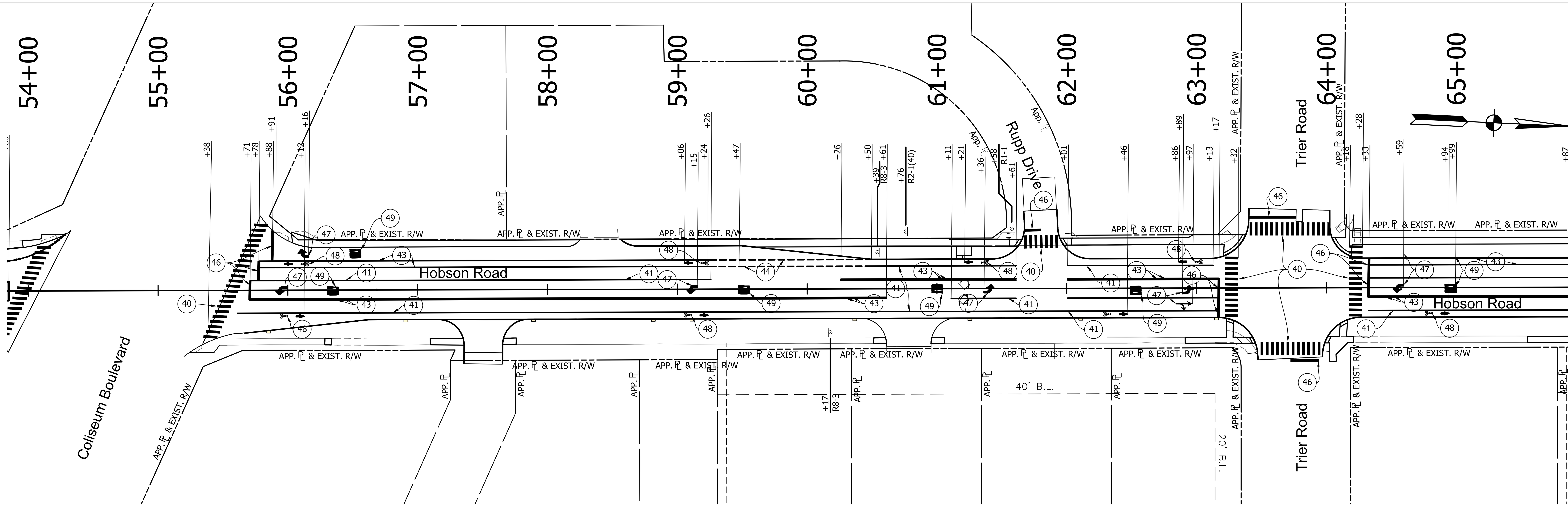
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

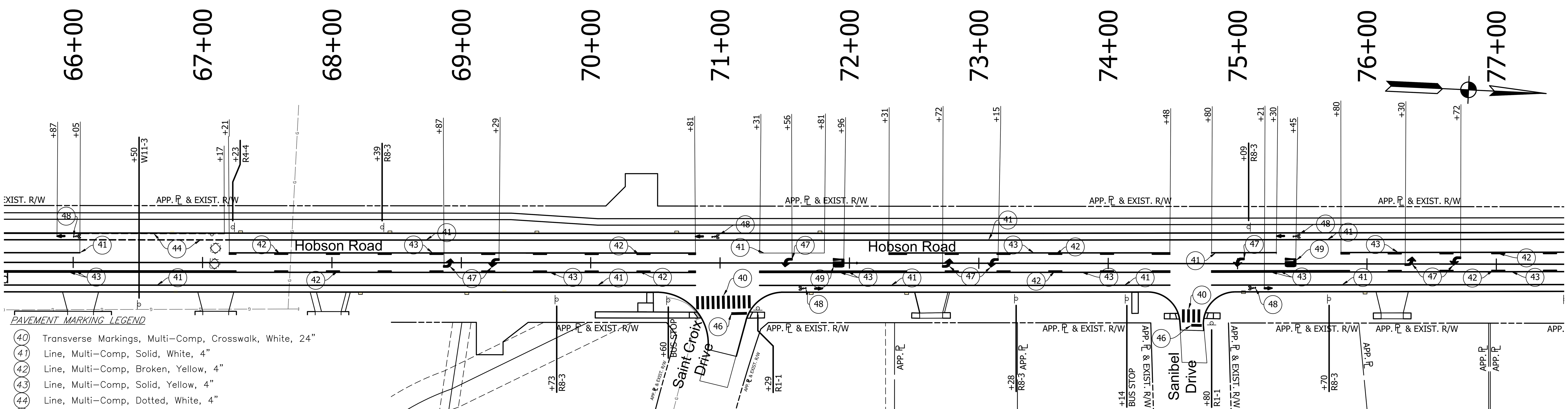
HOBSON ROAD REHABILITITATION

PAVEMENT MARKINGS, LINE H

DRAWING NO.

PMP2





PAVEMENT MARKING LEGEND

- (40) Transverse Markings, Multi–Comp, Crosswalk, White, 24"
- (41) Line, Multi–Comp, Solid, White, 4"
- (42) Line, Multi–Comp, Broken, Yellow, 4"
- (43) Line, Multi–Comp, Solid, Yellow, 4"
- (44) Line, Multi–Comp, Dotted, White, 4"
- (45) Transverse Markings, Multi–Comp, Solid, Yellow, Crosshatch Line, 12"
- (46) Transverse Markings, Multi–Comp, Stop Line, 24"
- (47) Pavement Message Marking, Multi–Comp, Lane Indication Arrow
- (48) Pavement Message Marking, Multi–Comp, Bike Symbol and Arrow
- (49) Pavement Message Marking, Multi–Comp, Word, "ONLY"

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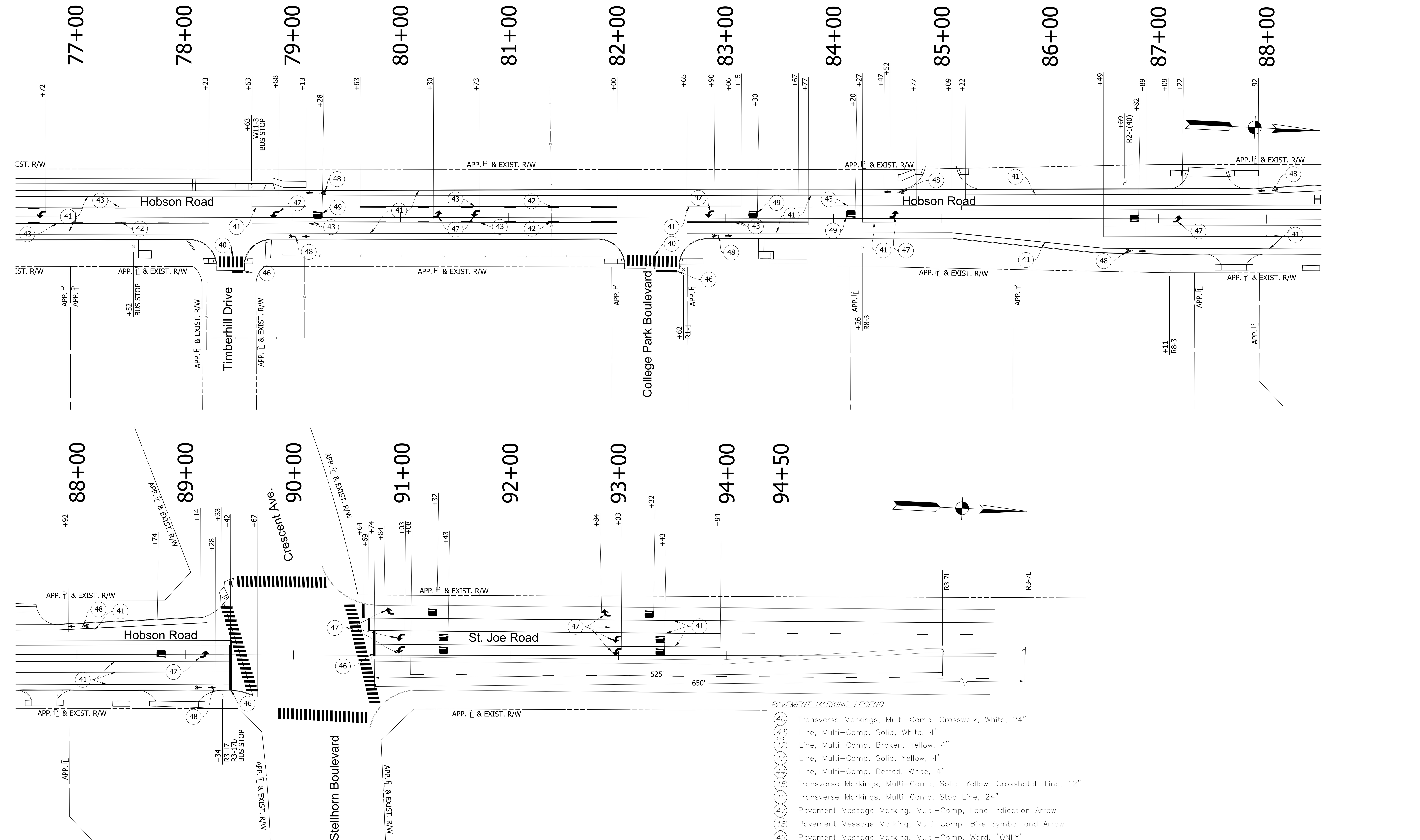
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

PAVEMENT MARKINGS, LINE H

DRAWING NO.

PMP3



PAVEMENT MARKING LEGEND

- 40 Transverse Markings, Multi-Comp, Crosswalk, White, 24"
- 41 Line, Multi-Comp, Solid, White, 4"
- 42 Line, Multi-Comp, Broken, Yellow, 4"
- 43 Line, Multi-Comp, Solid, Yellow, 4"
- 44 Line, Multi-Comp, Dotted, White, 4"
- 45 Transverse Markings, Multi-Comp, Solid, Yellow, Crosshatch Line, 12"
- 46 Transverse Markings, Multi-Comp, Stop Line, 24"
- 47 Pavement Message Marking, Multi-Comp, Lane Indication Arrow
- 48 Pavement Message Marking, Multi-Comp, Bike Symbol and Arrow
- 49 Pavement Message Marking, Multi-Comp, Word, "ONLY"

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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

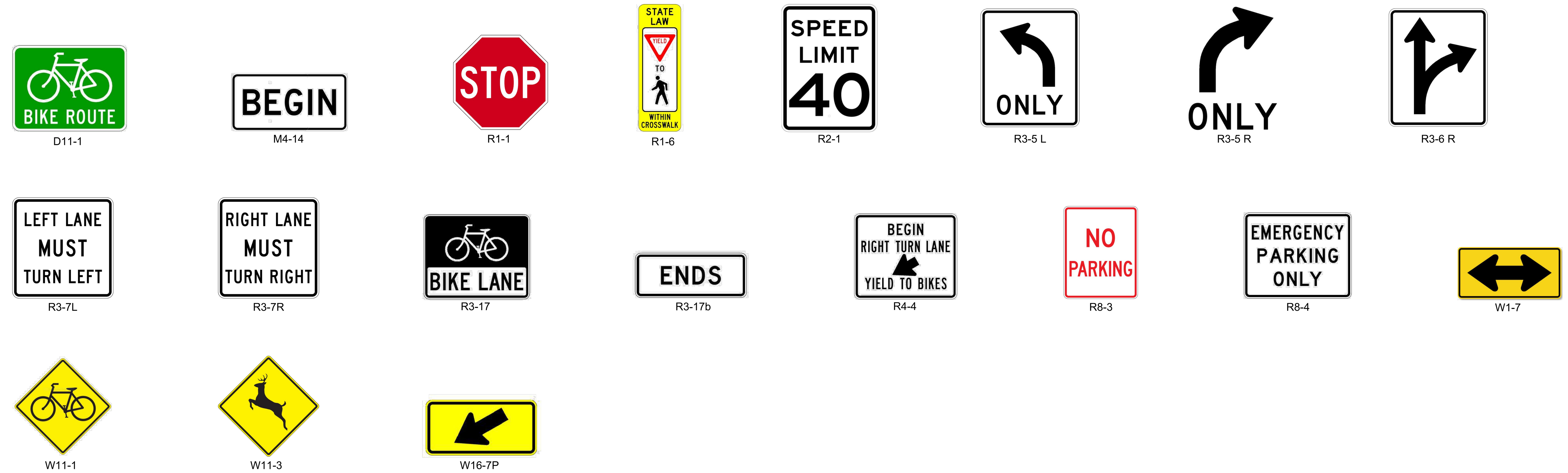
HOBSON ROAD REHABILITITATION

PAVEMENT MARKINGS, LINE H

DRAWING NO.
PMP4

SIGN & POST SUMMARY TABLE								
				Sign Area (ft²)			U-Channel Post Length (ft)	
Sheet No.	Station	Sign Code	Sign Size	0.080"	0.100"	0.125"		Remarks
PMP1	7+09 R	R3-7R	30"x30"	6.25			15	
PMP1	11+64 L	R3-17	24"x30"	5			15	
		R3-17b	24"x12"	2				Mount W/Above
PMP1	14+26 R	M4-14	24"x12"	2			15	Mount W/Above
		R2-1(40)	24"x30"	5				
PMP1	17+70 R	R1-1	30"x30"	6.25			15	
PMP1	21+25 L	R2-1(40)	24"x30"	5			14	
PMP1	24+34 R	R1-1	30"x30"	6.25			15	
PMP1	24+37 R	R2-1(40)	24"x30"	5			14	
PMP1	29+43 L	R2-1(40)	24"x30"	5			15	
		R8-3	18"x24"	3				Mount w/Above
PMP1	30+82 L	R1-1	30"x30"	6.25			15	
PMP1	30+91 R	R1-1	30"x30"	6.25			15	
PMP2	33+26 R	R8-3	18"x24"	3			12	
PMP2	35+22 L	R8-3	18"x24"	3			12	
PMP2	35+45 R	D11-1	24"x18"	3			12	
		W1-7	36"x18"	4.5				Mount w/ Below
PMP2	36+28 R	W11-1	30"x30"	6.25			15	
		W16-7P	24"x12"	2				Mount w/ Below
PMP2	37+90 R	R8-3	18"x24"	3			12	
PMP2	38+98 R	D11-1	24"x18"	3			12	
PMP2	39+06 L	R8-3	18"x24"	3			12	
PMP2	40+27 R	R1-1	30"x30"	6.25			15	
PMP2	40+71 R	R2-1(40)	24"x30"	5			14	
PMP2	41+44 R	R8-3	18"x24"	3			12	
PMP2	43+23 R	R1-1	30"x30"	6.25			15	
PMP2	43+68 L	Bus Stop					10	
PMP2	45+30 R	R8-3	18"x24"	3			12	
PMP2	46+86 L	R1-1	30"x30"	6.25			15	
PMP2	47+16 R	R1-6	12"x36"	3			15	
PMP2	47+61 R	R1-1	30"x30"	6.25			15	
PMP2	48+14 R	R8-3	18"x24"	3			12	
PMP2	48+26 L	R1-6	12"x36"	3			15	
PMP2	48+96 R	R4-4	30"x36"	7.5			15	
PMP2	49+33 L	R8-3	18"x24"	3			12	
PMP2	50+41 L	R1-1	30"x30"	6.25			15	
PMP2	52+33 L	R2-1(40)	24"x30"	5			15	
		R8-3	18"x24"	3				Mount w/Above
PMP3	60+17 R	R8-3	18"x24"	3			12	
PMP3	60+39 L	R8-3	18"x24"	3			12	
PMP3	60+76 L	R2-1(40)	24"x30"	5			14	
PMP3	61+58 L	R1-1	30"x30"	6.25			15	
PMP3	66+50 R	W11-3	30"x30"	6.25			15	
PMP3	67+23 L	R4-4	30"x36"	7.5			15	
PMP3	68+39 L	R8-3	18"x24"	3			12	
PMP3	69+73 R	R8-3	18"x24"	3			12	
PMP3	70+60 R	Bus Stop					10	
PMP3	71+29 R	R1-1	30"x30"	6.25			15	
PMP3	73+28 R	R8-3	18"x24"	3			12	
PMP3	74+14 R	Bus Stop					10	
PMP3	74+80 R	R1-1	30"x30"	6.25			15	
PMP3	75+09 L	R8-3	18"x24"	3			12	
PMP3	75+70 R	R8-3	18"x24"	3			12	
PMP4	77+52 R	Bus Stop					10	
PMP4	78+63 L	W11-3	30"x30"	6.25			15	
		Bus Stop						Mount W/Above
PMP4	82+62 R	R1-1	30"x30"	6.25			15	
PMP4	84+26 R	R8-3	18"x24"	3			12	
PMP4	86+69 L	R2-1(40)	24"x30"	5			14	
PMP4	87+11 R	R8-3	18"x24"	3			12	
PMP4	89+34 R	R3-17	24"x30"	5			15	
		R3-17b	12"x30"	2.5				Mount W/Above
		Bus Stop						Mount W/Above
PMP4	95+99 L	R3-7L	30"x30"	6.25			15	
PMP4	97+24 L	R3-7L	30"x30"	6.25			15	
SP1	11+18 R	R3-5R	36"x30"	7.5				Mount on Mast Arm
SP2	36+92 L	R3-5L	36"x30"	7.5				Mount on Mast Arm
SP2	37+41 R	R3-5L	36"x30"	7.5				Mount on Mast Arm
SP3	53+84 R	R3-5R	36"x30"	7.5				Mount on Signal Span
SP3	55+88 L	R3-5R	36"x30"	7.5				Mount on Signal Span
SP5	89+47 R	R3-6R	36"x30"	7.5				Mount on Signal Span
SP5	90+80 L	R3-5L	36"x30"	7.5				Mount on Signal Span
TOTALS:				318.25			758	

SIGN LEGEND:



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SCALE: H=1:40

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

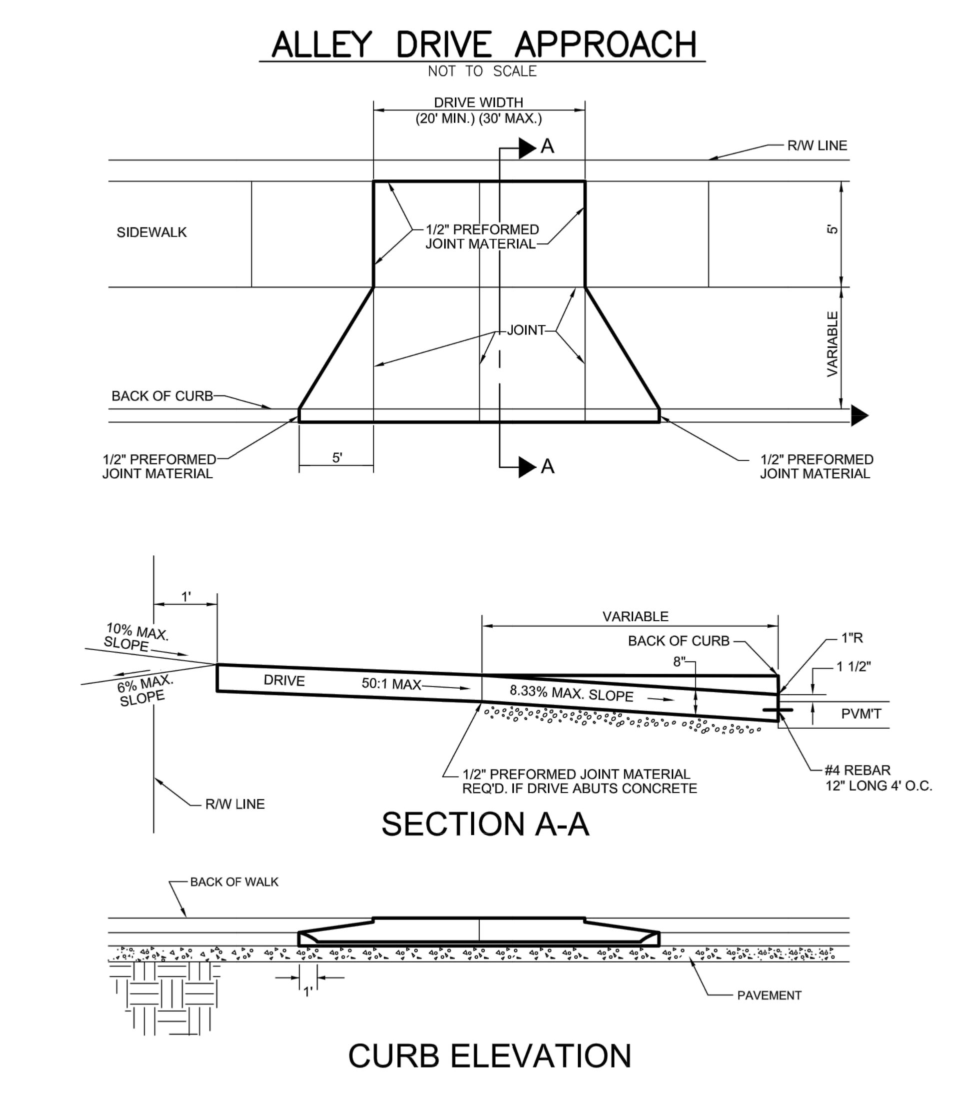
PAVEMENT MARKINGS, LINE H

DRAWING NO.

PMP5

TRANSPORTATION ENGINEERING STANDARD DETAILS

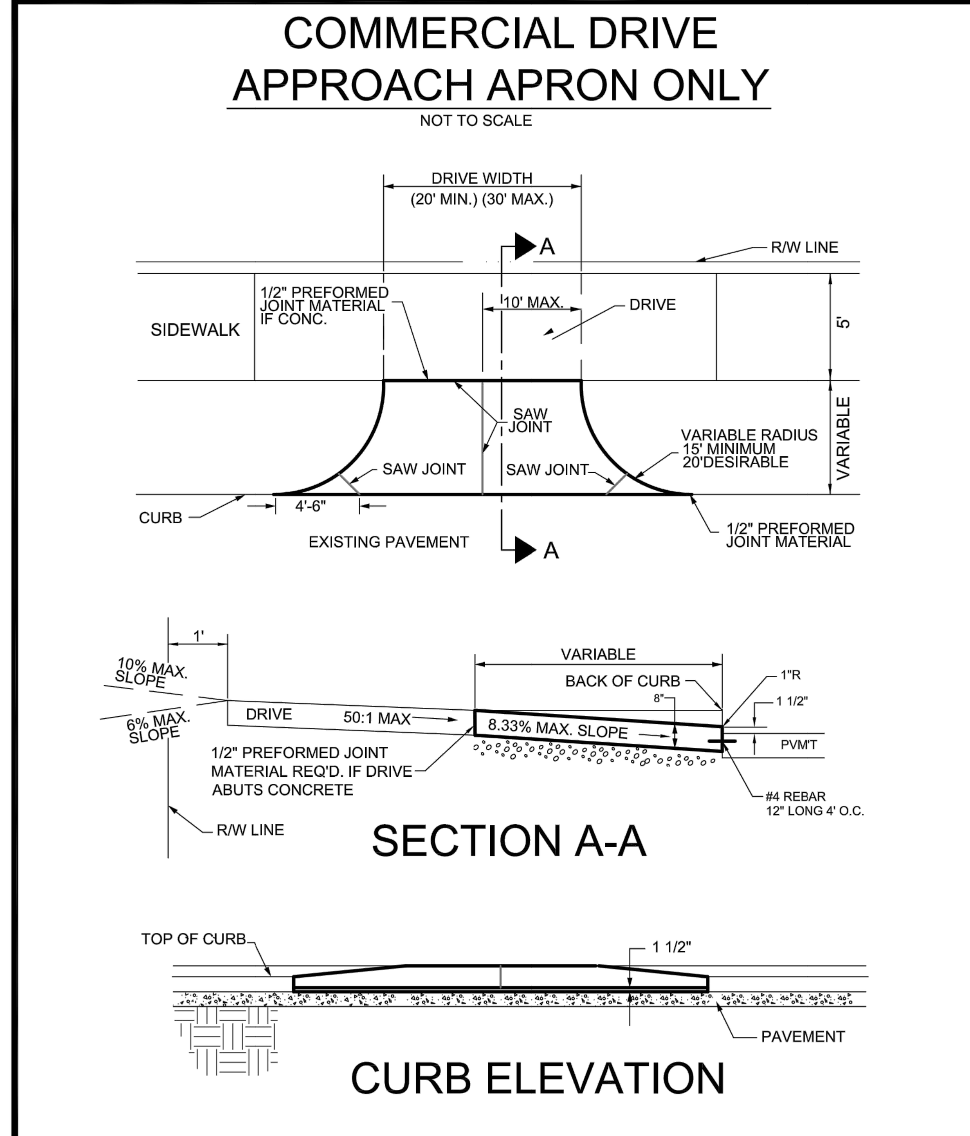
ALLEY DRIVE APPROACH



DATE: 3/5/12 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: APPROACH 6

TRANSPORTATION ENGINEERING STANDARD DETAILS

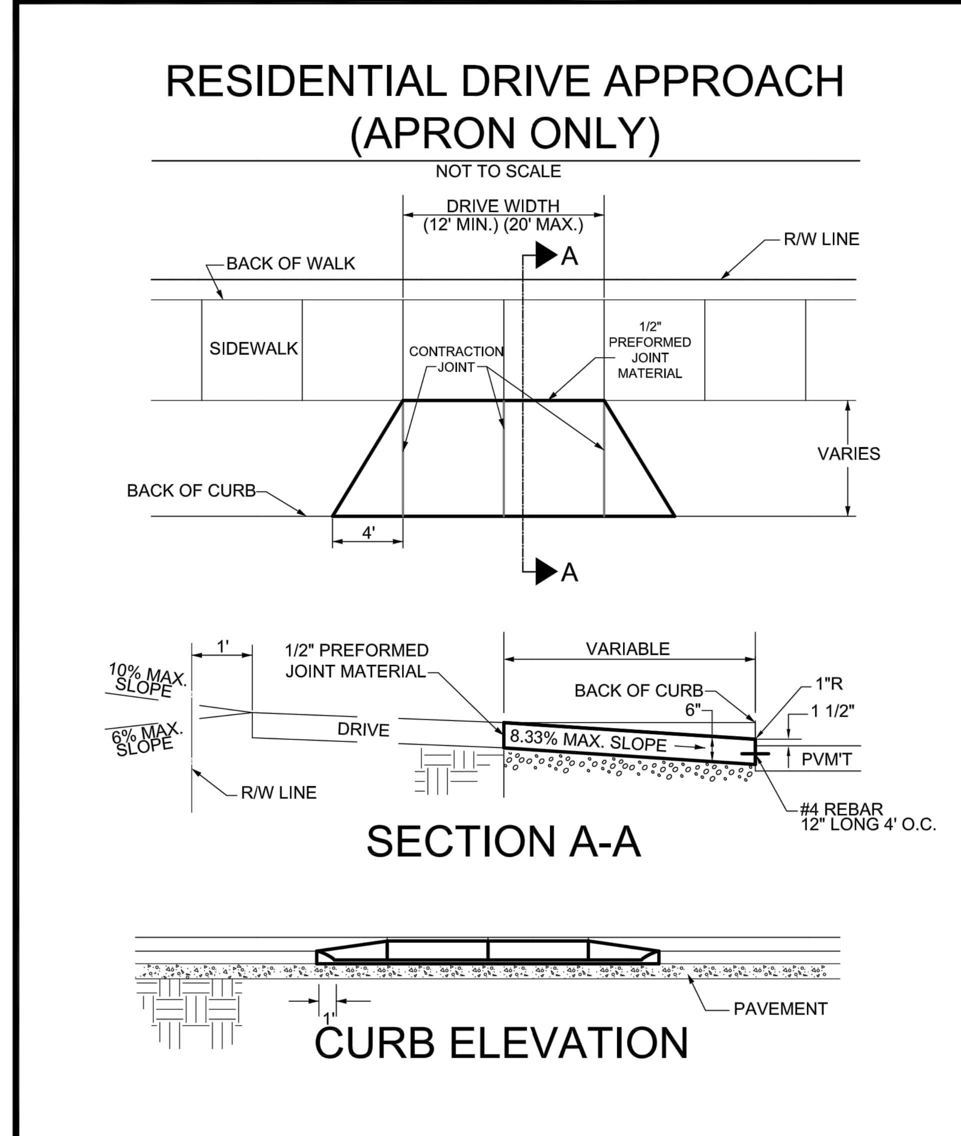
COMMERCIAL DRIVE APPROACH APRON ONLY



DATE: 3/5/12 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: APPROACH 5

TRANSPORTATION ENGINEERING STANDARD DETAILS

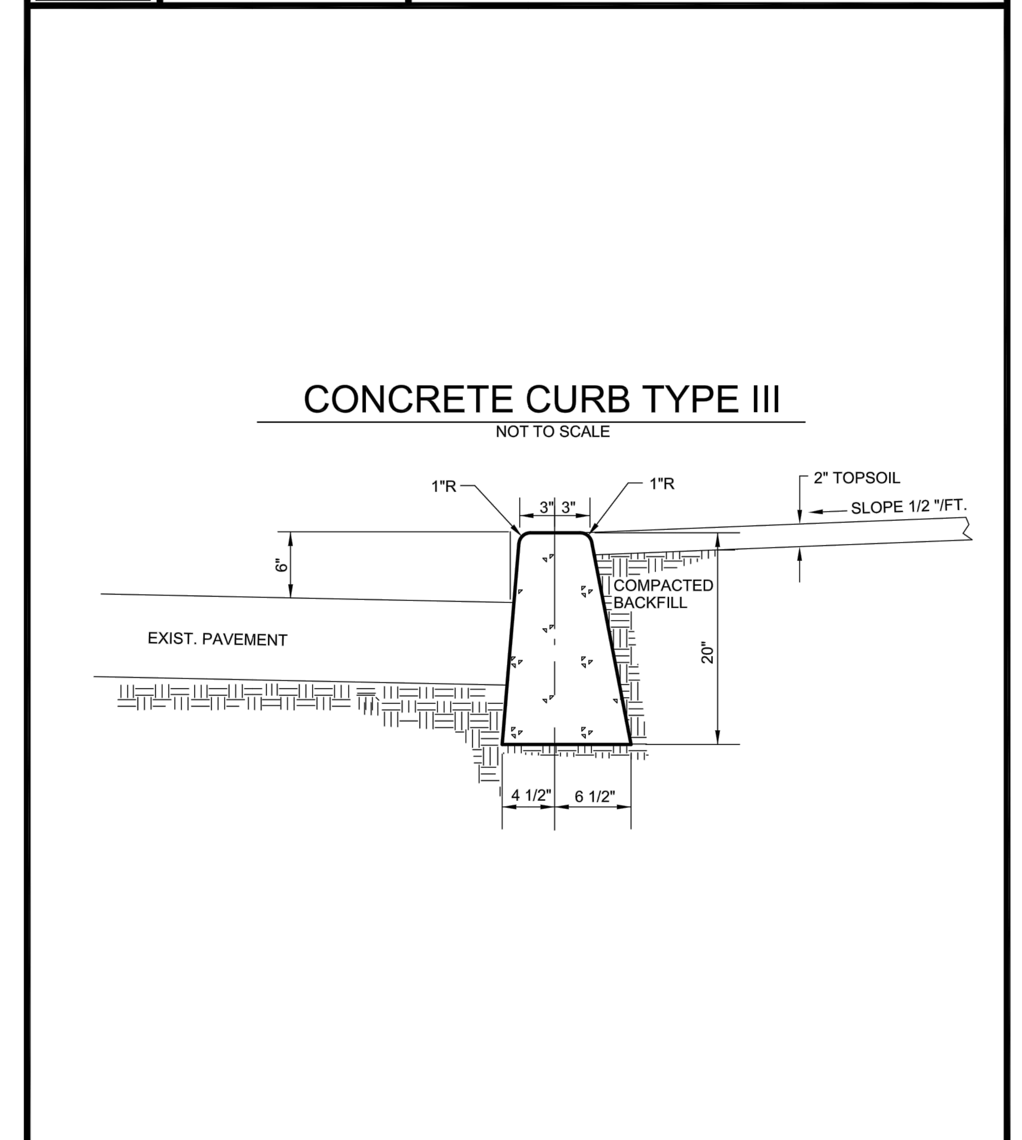
RESIDENTIAL DRIVE APPROACH (APRON ONLY)



DATE: 3/5/12 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: APPROACH 2

TRANSPORTATION ENGINEERING STANDARD DETAILS

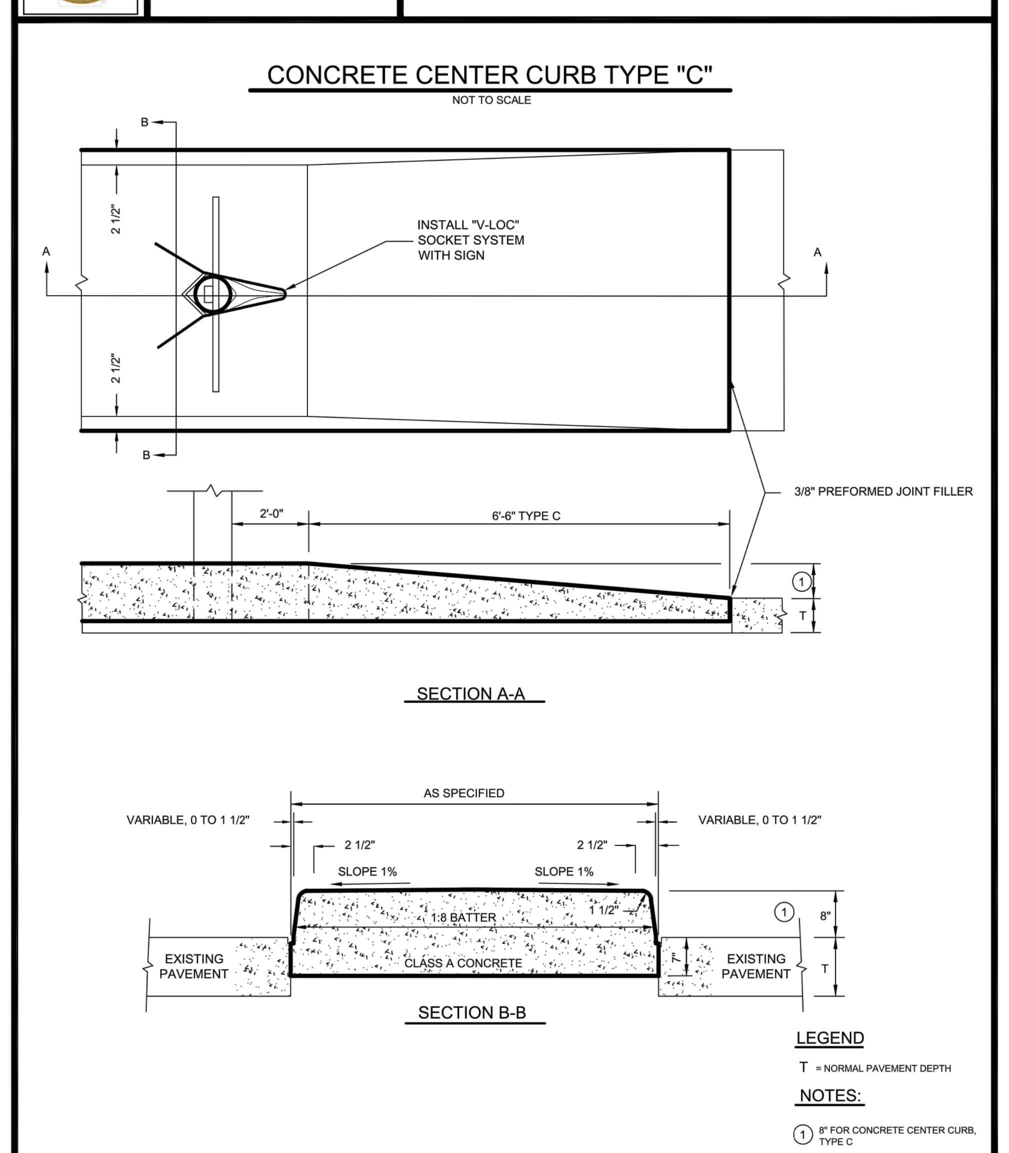
CONCRETE CURB TYPE III



DATE: 2/22/12 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: CURBS 11

TRANSPORTATION ENGINEERING STANDARD DETAILS

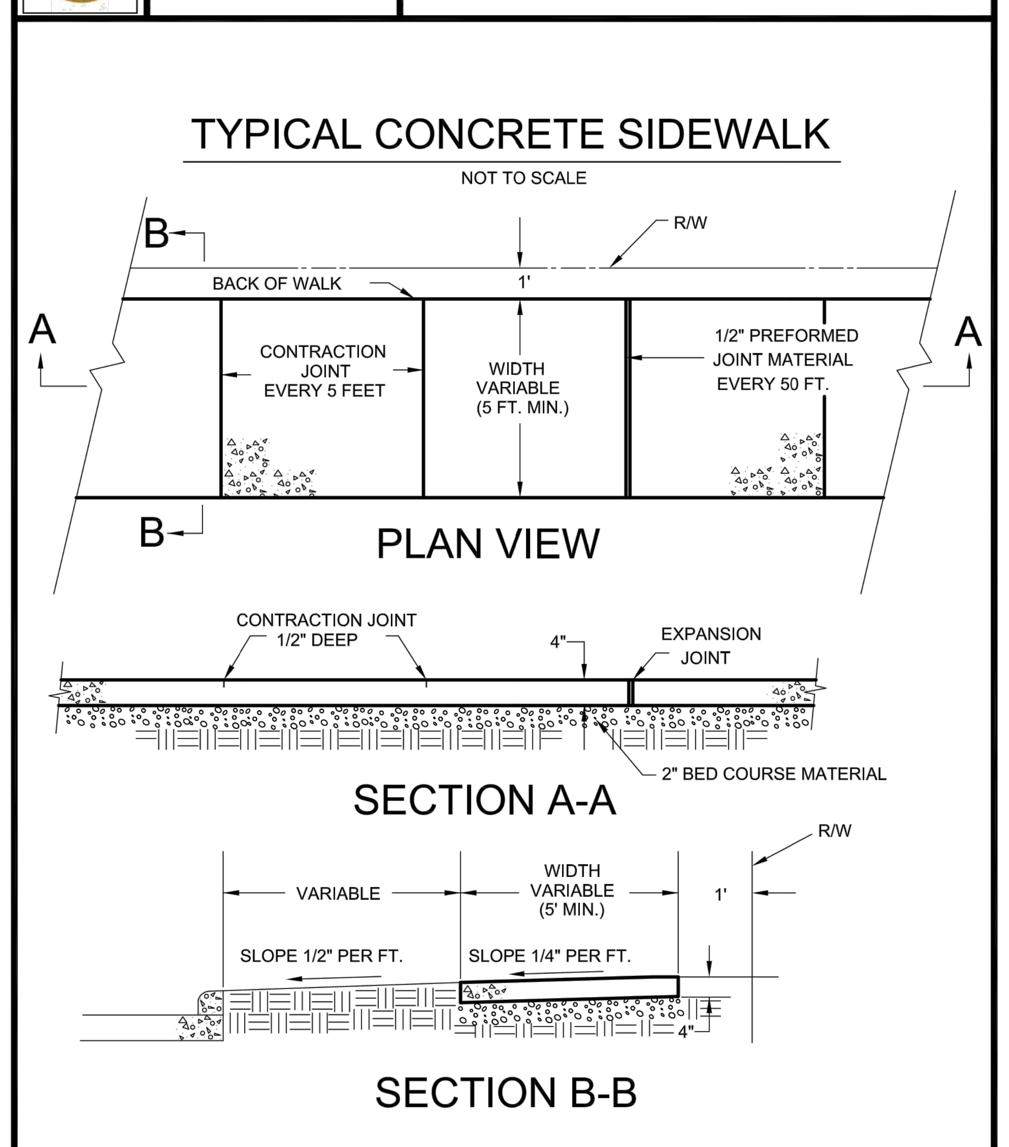
CONCRETE CENTER CURB TYPE "C"



DATE: 9/13/13 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: CURBS 8

TRANSPORTATION ENGINEERING STANDARD DETAILS

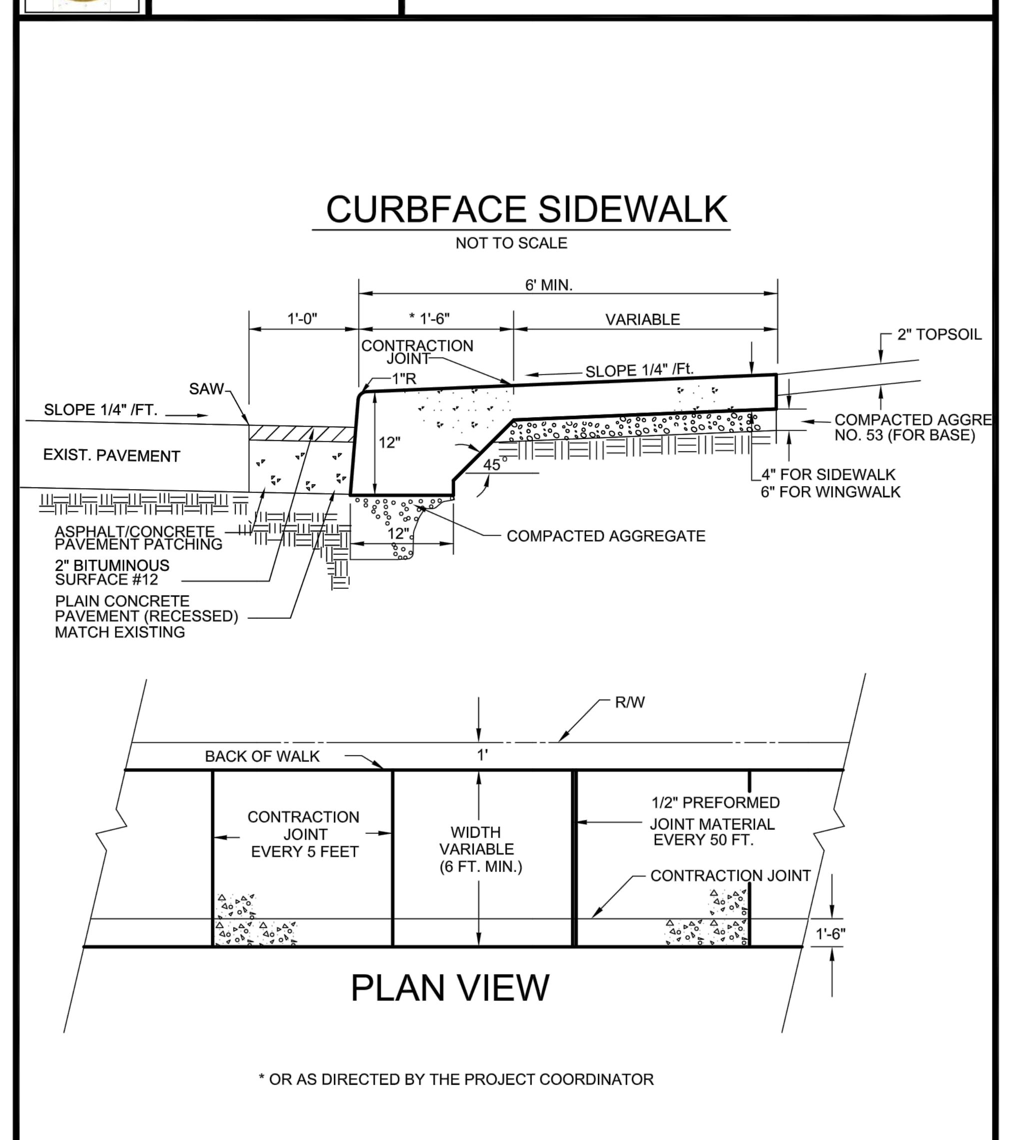
SIDEWALK



DATE: 2/22/12 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: SIDEWALKS 1

TRANSPORTATION ENGINEERING STANDARD DETAILS

CURBFACE SIDEWALK



DATE: 7/30/12 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: SIDEWALKS 2

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
www.vsengineering.com
Phone: (260) 489-6635
Fax: (260) 489-6605

DRAWN BY: LG
DESIGNED BY: MH
CHECKED BY: HF
DATE: 11/30/15
JOB NO:
SCALE:

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

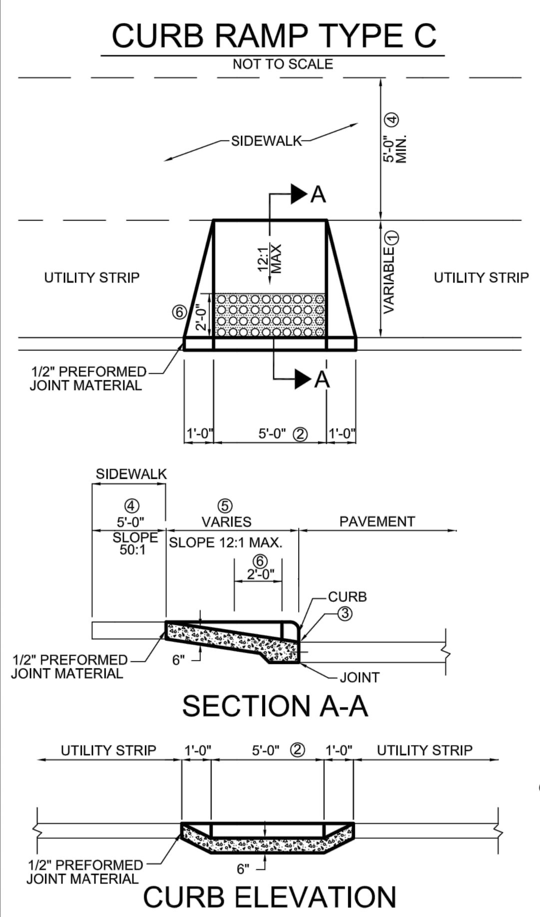
HOBSON ROAD REHABILITITATION

MISCELLANEOUS DETAILS

DRAWING NO.
MD1

TRANSPORTATION ENGINEERING STANDARD DETAILS

CURB RAMP TYPE "C"



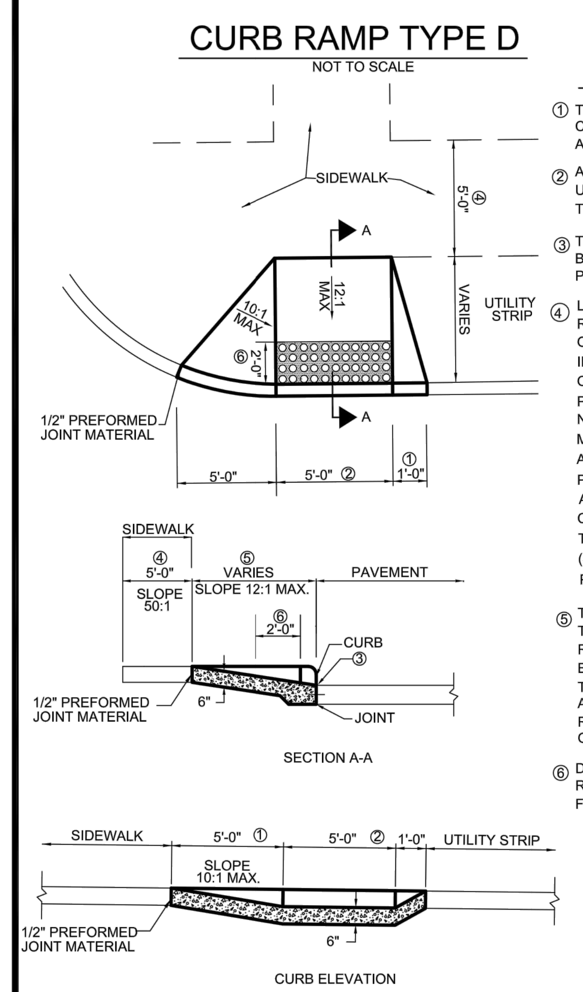
GENERAL NOTES

1. THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
2. A 4'-0" MINIMUM WIDTH RAMP MAY BE USED WHEN EXISTING SPACE PROHIBITS THE CONSTRUCTION OF THE 5'-0" WIDE RAMP.
3. THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.
4. LANDING AREA AT THE TOP OF CURB RAMPS SHALL HAVE MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION. WHERE SITE INFEASIBILITY PRECLUDES A LANDING SLOPE OF 50:1 IN ANY DIRECTION, THE SLOPE PERPENDICULAR TO THE CURB FACE SHALL NOT EXCEED 50:1. A TURNING SPACE (4.0 FT.) MINIMUM BY (4.0 FT) MINIMUM SHALL BE PROVIDED AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF THE SIDEWALK, THE TURNING SPACE SHALL BE (4.0 FT) MINIMUM BY (5.0 FT) MINIMUM. THE (5.0 FT) DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
5. THE RUNNING SLOPE OF THE CURB RAMP SHALL CUT THROUGH OR SHALL BE BUILT UP TO THE CURB AT RIGHT ANGLES OR SHALL MEET THE GUTTER GRADE BREAK AT RIGHT ANGLES WHERE THE CURB IS CURVED. THE RUNNING SLOPE OF THE CURB SHALL BE 5% MIN. AND 8.3% MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED (15.0 FT). THE RUNNING SLOPE OF THE TURNING SPACE SHALL BE 2% MAXIMUM.
6. DETECTABLE WARNING SURFACE SHALL BE BRICK RED IN COLOR. SEE SPECIAL PROVISIONS FOR ACCEPTED TACTILE WARNING UNITS.

DATE: 1/22/13 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: CURBS 3

TRANSPORTATION ENGINEERING STANDARD DETAILS

CURB RAMP TYPE "D"



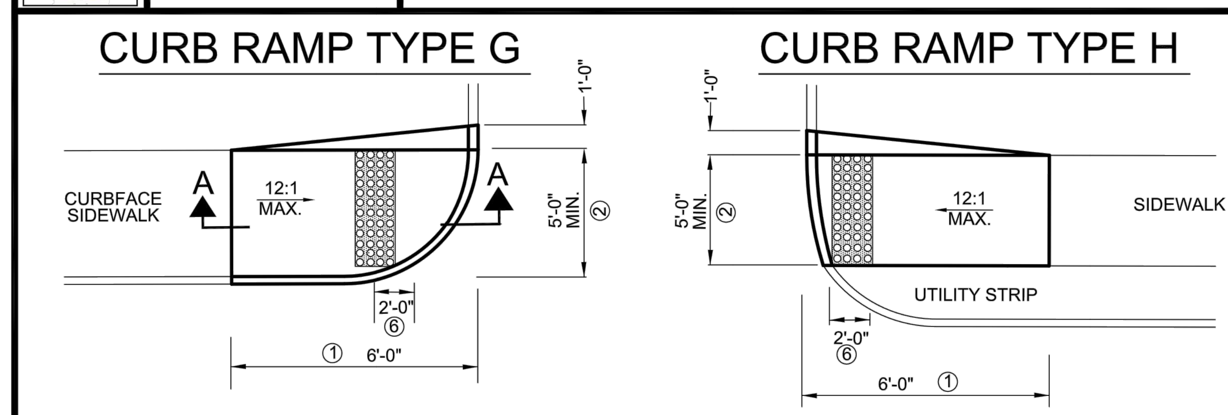
GENERAL NOTES

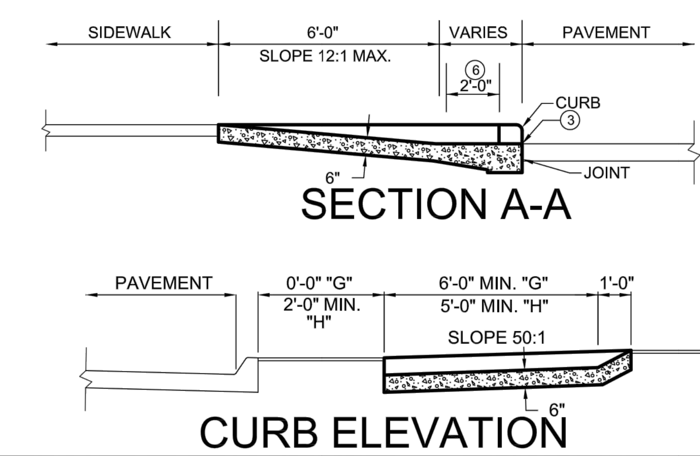
1. THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
2. A 4'-0" MINIMUM WIDTH RAMP MAY BE USED WHEN EXISTING SPACE PROHIBITS THE CONSTRUCTION OF THE 5'-0" WIDE RAMP.
3. THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.
4. LANDING AREA AT THE TOP OF CURB RAMPS SHALL HAVE MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION. WHERE SITE INFEASIBILITY PRECLUDES A LANDING SLOPE OF 50:1 IN ANY DIRECTION, THE SLOPE PERPENDICULAR TO THE CURB FACE SHALL NOT EXCEED 50:1. A TURNING SPACE (4.0 FT.) MINIMUM BY (4.0 FT) MINIMUM SHALL BE PROVIDED AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF THE SIDEWALK, THE TURNING SPACE SHALL BE (4.0 FT) MINIMUM BY (5.0 FT) MINIMUM. THE (5.0 FT) DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
5. THE RUNNING SLOPE OF THE CURB RAMP SHALL CUT THROUGH OR SHALL BE BUILT UP TO THE CURB AT RIGHT ANGLES OR SHALL MEET THE GUTTER GRADE BREAK AT RIGHT ANGLES WHERE THE CURB IS CURVED. THE RUNNING SLOPE OF THE CURB SHALL BE 5% MIN. AND 8.3% MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED (15.0 FT). THE RUNNING SLOPE OF THE TURNING SPACE SHALL BE 2% MAXIMUM.
6. DETECTABLE WARNING SURFACE SHALL BE BRICK RED IN COLOR. SEE SPECIAL PROVISIONS FOR ACCEPTED TACTILE WARNING UNITS.

DATE: 1/25/13 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: RAMPS 4

TRANSPORTATION ENGINEERING STANDARD DETAILS

CURB RAMP TYPE "G & H"





GENERAL NOTES

1. THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
2. A 4'-0" MINIMUM WIDTH RAMP MAY BE USED WHEN EXISTING SPACE PROHIBITS THE CONSTRUCTION OF THE 5'-0" WIDE RAMP.
3. THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.
6. DETECTABLE WARNING SURFACE SHALL BE BRICK RED IN COLOR. SEE SPECIAL PROVISIONS FOR ACCEPTED TACTILE WARNING UNITS.

DATE: 1/22/13 | NOT TO SCALE | APPROVED BY: M.T. | SHEET NO: RAMPS 7

-- REVISIONS --			
NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
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Fort Wayne, Indiana 46825
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www.vsengineering.com
Phone: (260) 489-6635
Fax: (260) 489-6605

DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

MISCELLANEOUS DETAILS

DRAWING NO.
MD2

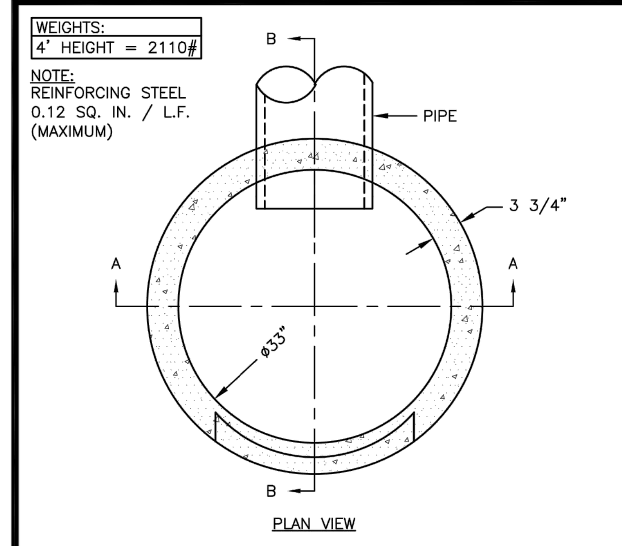
PRECAST 33" ROUND INLET

Fort Wayne City Utilities Design Standards Manual

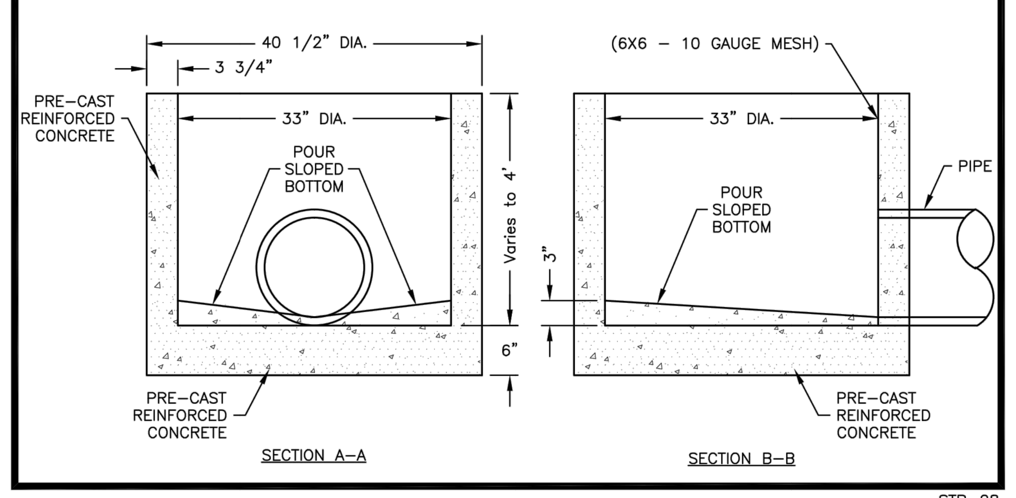
Created: July 28, 2010 | Revised: April 5, 2012
Scale: N.T.S. | Approved: May 16, 2012

WEIGHTS:
4' HEIGHT = 2110#

NOTE:
REINFORCING STEEL 0.12 SQ. IN. / L.F. (MAXIMUM)



NOTES:
1. ALL CONCRETE TO BE A MINIMUM OF 4500 PSI @ 28 DAYS.
2. MANUFACTURED IN ACCORDANCE WITH ASTM C-478 AND INDOT SPEC. 907.04.
3. MANHOLE JOINTS TO BE TONGUE AND GROOVE WITH BUTYL RUBBER SEALANT OR O'RING PER ASTM C-443.
4. LIFTING HOLES REQUIRE PLUGGING BEFORE TESTING.
5. PIPE CONNECTIONS AVAILABLE ARE PSX BOOTS, A-LOK OR NON-SHRINK GROUT BY CONTRACTOR.
6. PRE-POURED INVERTS ARE AVAILABLE ON REQUEST.
7. ALL REINFORCING STEEL MEETS OR EXCEEDS ASTM C-478.
8. BASE SECTION COMES STANDARD WITH 6" MONOLITHIC BASE. SEPARATE BASE AND FLAT TOP IS AVAILABLE ON REQUEST. BASE SECTION IS TO BE SET PER JOB SPECIFICATIONS.
9. CONTRACTOR SHALL POUR SLOPED CONCRETE BOTTOM TO ALLOW ADEQUATE DRAINAGE IN INLET.
10. THE CASTING TO BE USED WITH THIS INLET SHALL BE A 33" ROUND CURB & GUTTER W/ADJUSTING RING FOR SUPPORT OF CASTING OR OTHER PRE-APPROVED CASTING AS NOTED ON THE PROJECT DETAIL SHEET(S).

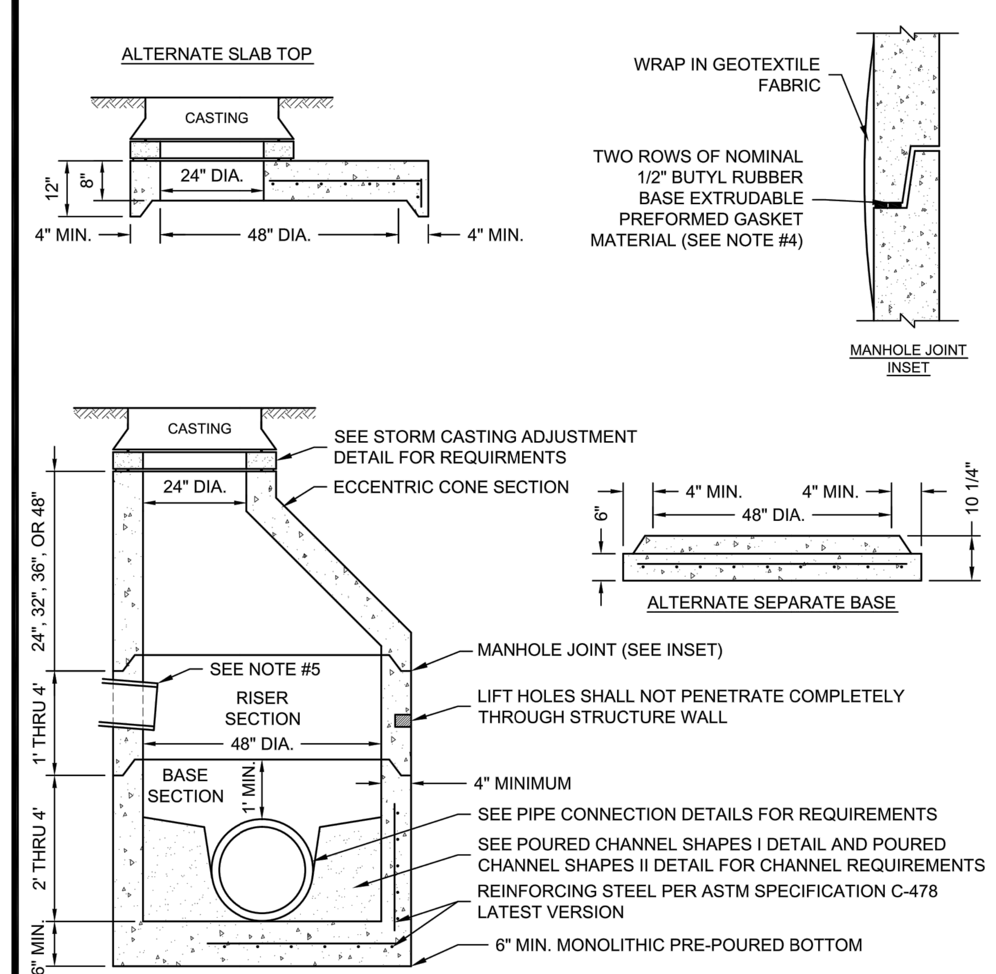


STR-28

48" STORM MANHOLE

Fort Wayne City Utilities Design Standards Manual

Created: April 19, 2013 | Revised: March 18, 2015
Scale: N.T.S. | Approved: ________ __, 20__



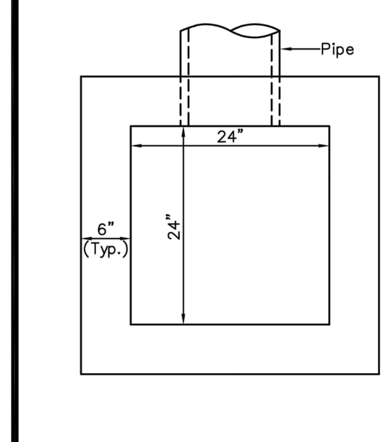
NOTES:
1. FOR ALTERNATE POURED IN PLACE BASE, SEE POURED IN PLACE BASE 48" AND LESS DETAIL.
2. THE BASE SHALL BE PLACED ON COMPACTED GRAVEL OR STONE, 4" MINIMUM.
3. THE INSIDE WALL DISTANCE BETWEEN OPENINGS SHALL BE A MINIMUM OF 6".
4. USE RU 106 RUB'RNEK LTM AS MANUFACTURED BY HENRY CO., KENT-SEAL NO. 2 AS MANUFACTURED BY HAMILTON-KENT OR EZ-STICK BUTYL-RUBBER-BASED PREFORMED FLEXIBLE SEALANT AS MANUFACTURED BY PRESS-SEAL.
5. UNDERDRAIN CONNECTION SHALL BE ABOVE BENCH. SEE PIPE CONNECTION DETAILS FOR REQUIREMENTS.

STR-30-1

2' X 2' INLET

Fort Wayne City Utilities Design Standards Manual

Created: January 1, 2002 | Revised: April 5, 2012
Scale: N.T.S. | Approved: May 16, 2012



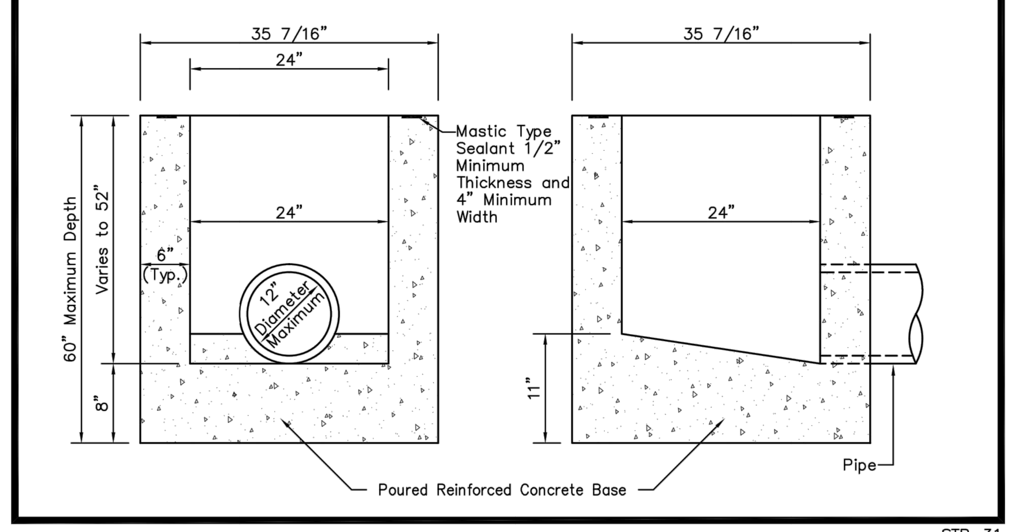
NOTE:
Reinforcing Steel Per ASTM C-890

Casting
2' x 2' Curb and Gutter Grate or 2' x 2' Alley Casting

Pipe Connection Notes:
Inlet and Outlet Pipes Shall Extend Through the Box Inlet Walls a Sufficient Distance to Allow for Placement of Grouting Material Around the Pipe Diameter Both Inside and Outside of the Structure Wall, Preventing Leakage Around the Pipes Outer Surface. Inlet and Outlet Pipes Shall Not Extend Through the Inlet or Manhole Wall to Such a Degree that Flow is Obstructed.

Holes for Connections of Storm Sewer Pipes Shall be Preformed by the Manufacturer, or Field Cut or Drilled. At No Time Shall the Pipe Hole Exceed the Outer Pipe Diameter Plus Four-Inches (O.D. + 4"), to Ensure a Proper Connection is Achieved. Should the Contractor Elect to Use Box Inlet Structures with Preformed Thin Wall "Knock-outs", the Balance of the "Knock-out" Area not Occupied by the Pipe Connection and All Remaining Unused "Knock-outs" Shall be Filled with 4000 psi Class A Concrete to a Finished Wall Thickness Not Less Than Required by these Standards.

The Annular Space Between the Pipe and the Box Inlet Wall Shall be Filled Inside and Outside with a Grout Mixture Composed of 2 parts of No. 23 Fine Aggregate and One Part Portland Cement. As an Alternative, Pipe Connections to Box Inlet Utilizing an Approved Rubber Gasket Manufactured and Installed in Accordance with ASTM C 923 Will be Accepted.

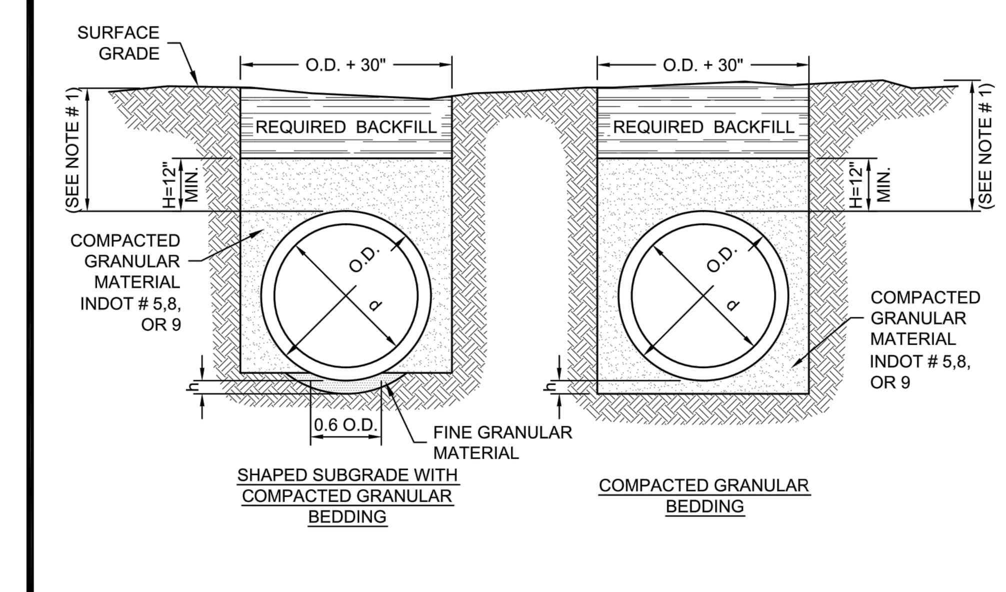


STR-31

GENERAL CONCRETE PIPE BEDDING DETAIL

Fort Wayne City Utilities Design Standards Manual

Created: January 1, 2002 | Revised: January 28, 2014
Scale: N.T.S. | Approved: May 16, 2012



LEGEND:
O.D.= OUTSIDE DIAMETER
H= BACKFILL COVER ABOVE TOP OF PIPE
d= INSIDE DIAMETER
h= $\frac{O.D.}{8}$ 4" MINIMUM

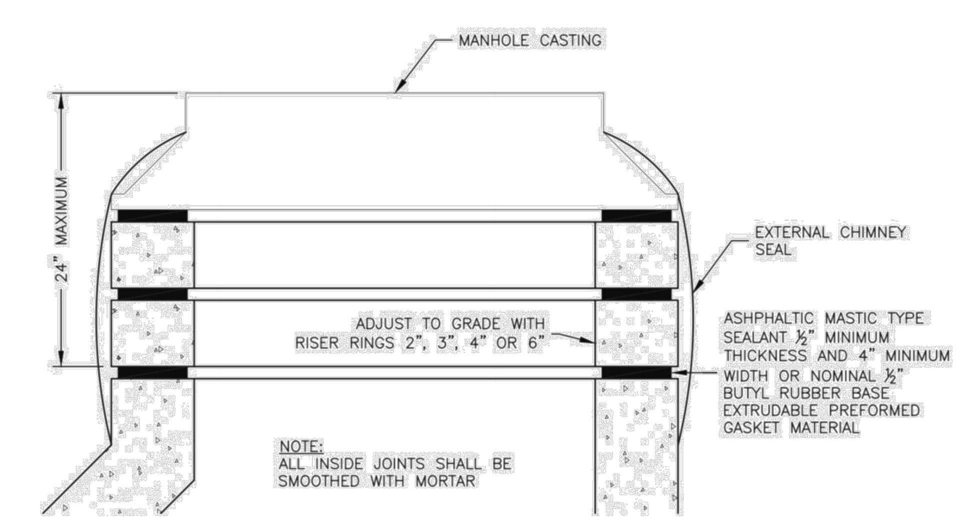
NOTES:
1. MINIMUM COVER - STORMWATER 3', SANITARY 4', WATER 5'.
2. FOR ROCK OR OTHER NON-COMPRESSIVE MATERIALS; THE TRENCH SHOULD BE OVER-EXCAVATED A MINIMUM OF 6" AND REFILLED WITH GRANULAR MATERIAL.

BS-4

CASTING ADJUSTMENT

City Utilities Department of Water Resources

Created: January 1, 2002 | Revised: April 6, 2012
Scale: N.T.S. | Approved: May 16, 2012



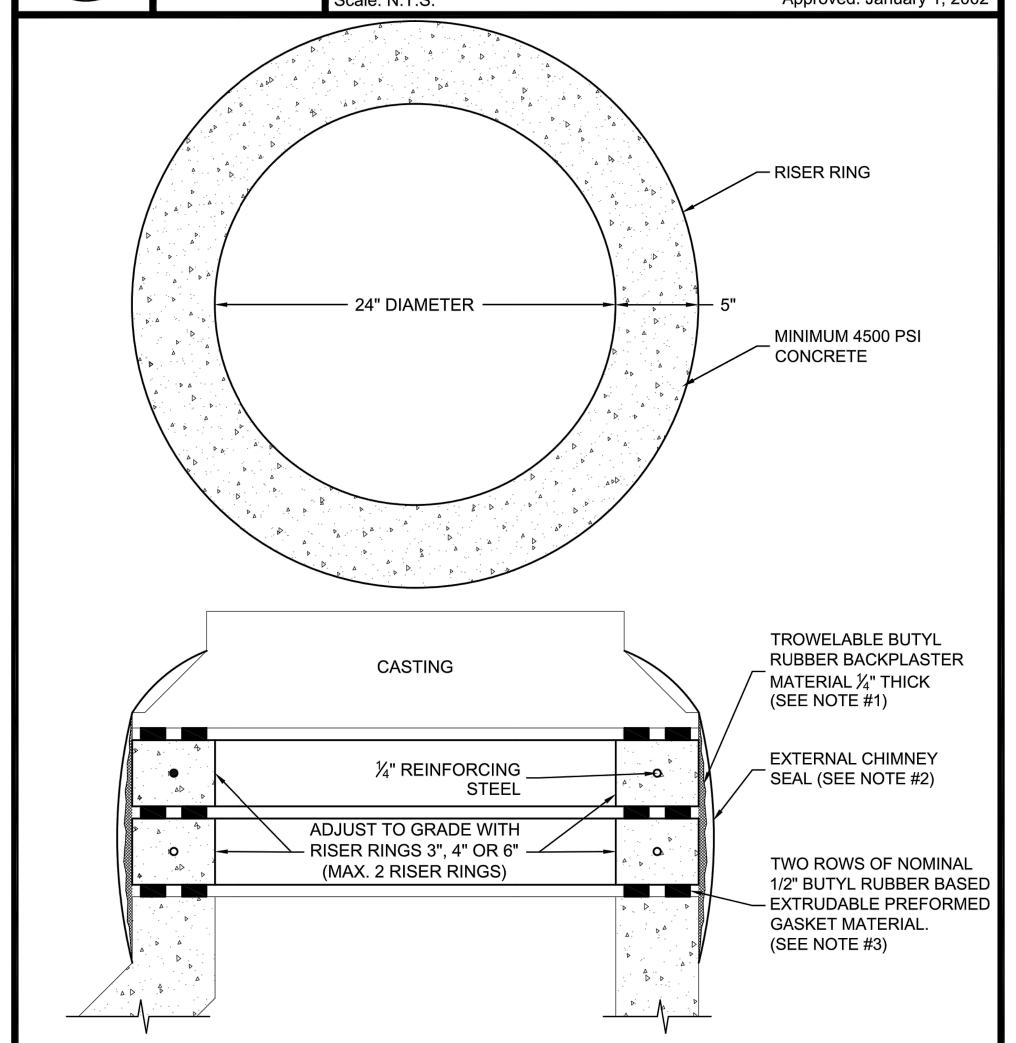
GENERAL CONSTRUCTION REQUIREMENTS:
EXTERNAL CHIMNEY SEAL SHALL CONSIST OF A HEAT-SHRINKING WRAP AROUND SLEEVE. USE WRAPIDSEAL AS MANUFACTURED BY CANUSA OR ENGINEER APPROVED EQUAL.

STR-19

SANITARY CASTING ADJUSTMENT

Fort Wayne City Utilities Design Standards Manual

Created: January 1, 2002 | Revised: November 24, 2014
Scale: N.T.S. | Approved: January 1, 2002



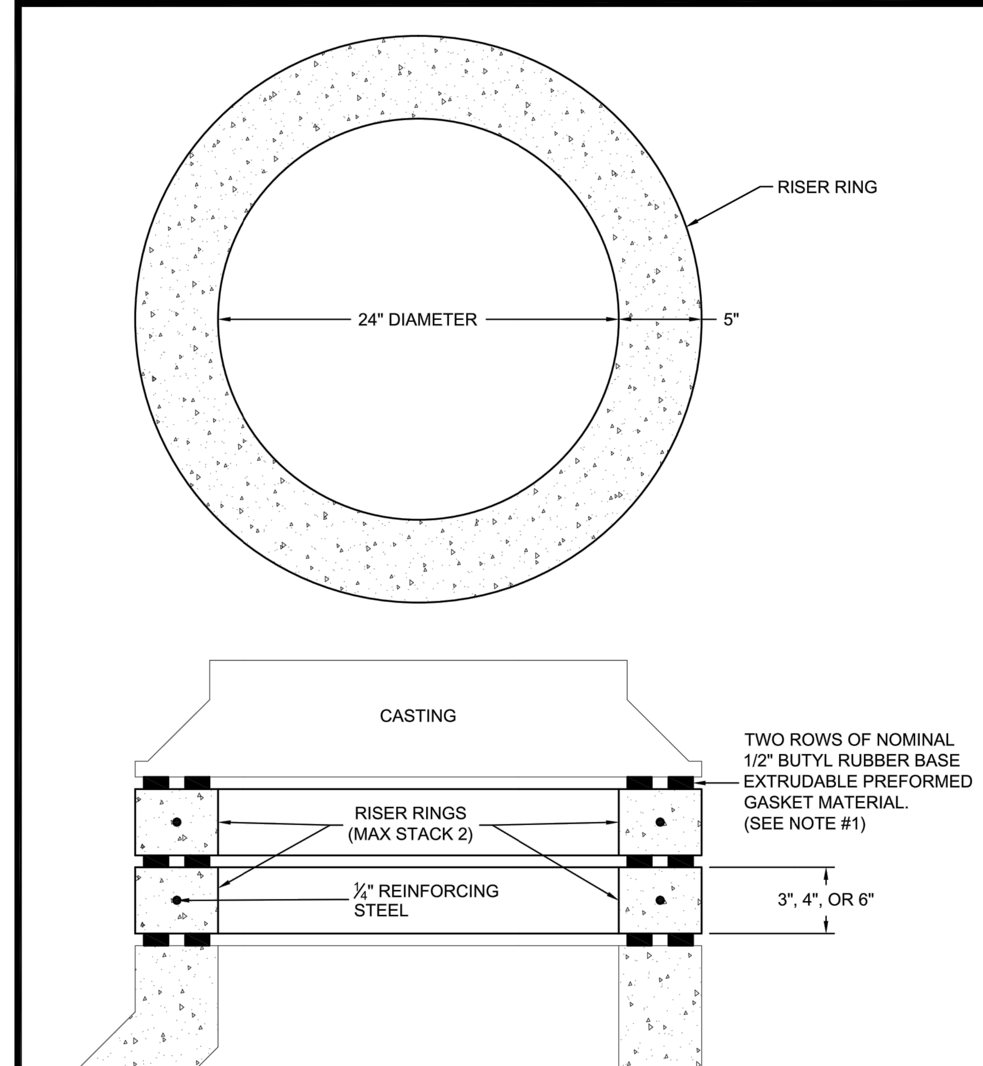
NOTES:
1. APPLY TROWELABLE BUTYL RUBBER BACKPLASTER MATERIAL 1/4" THICK (WHEN DRY) OVER RISER RINGS FROM 6" ABOVE TO 6" BELOW RISER RING JOINTS. USE TROWELABLE EZ-STICK #3, AS MANUFACTURED BY PRESS-SEAL GASKET CORP.
2. EXTERNAL CHIMNEY SEAL SHALL CONSIST OF A HEAT-SHRINKING WRAP-AROUND SLEEVE OR EXTERNAL CHIMNEY SEAL (AS MANUFACTURED BY CRETEX). (USE WRAPIDSEAL AS MANUFACTURED BY CANUSA).
3. USE RU 106 RUB'RNEK LTM AS MANUFACTURED BY HENRY CO., KENT-SEAL NO. 2 AS MANUFACTURED BY HAMILTON-KENT OR EZ-STICK BUTYL-RUBBER-BASED PREFORMED FLEXIBLE SEALANT AS MANUFACTURED BY PRESS-SEAL.

STR-23-1

STORM CASTING ADJUSTMENT

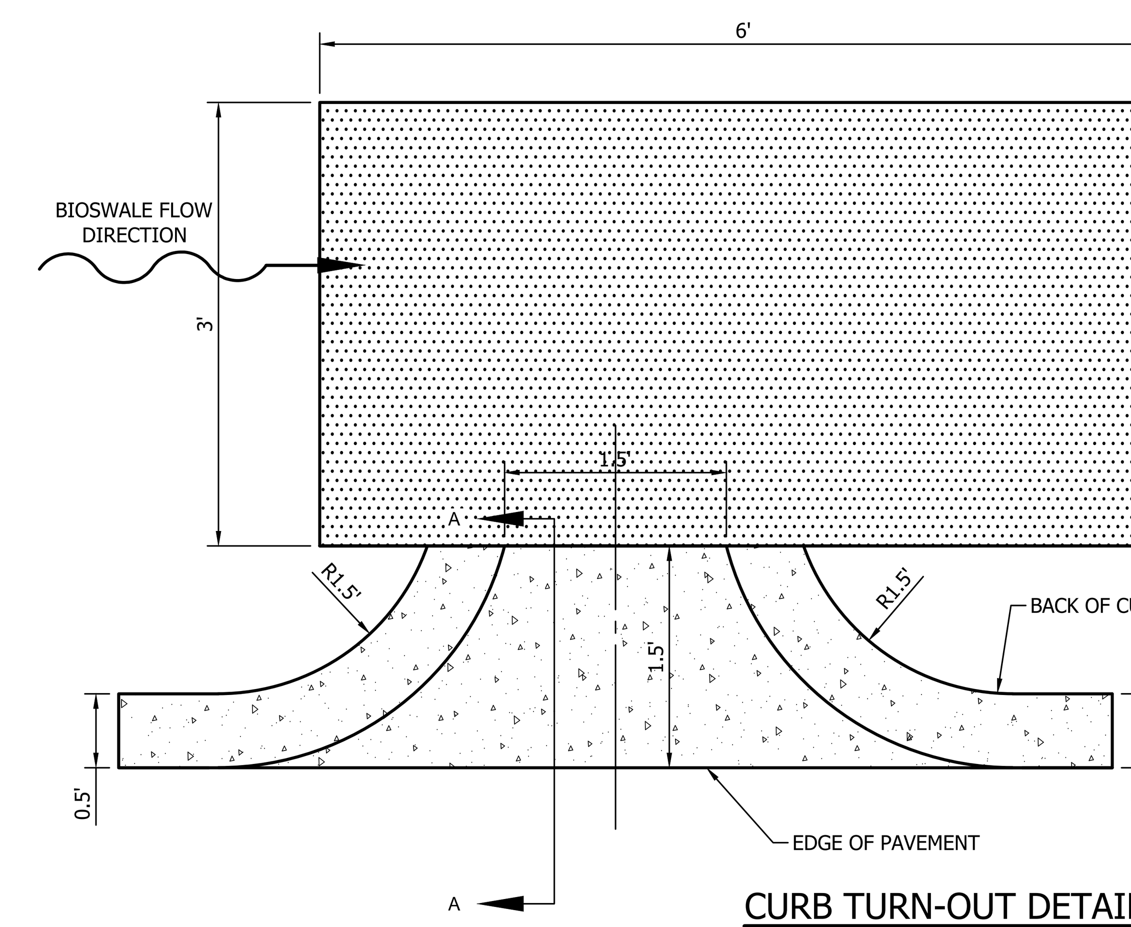
Fort Wayne City Utilities Design Standards Manual

Created: January 1, 2002 | Revised: August 5, 2014
Scale: N.T.S. | Approved: January 1, 2002



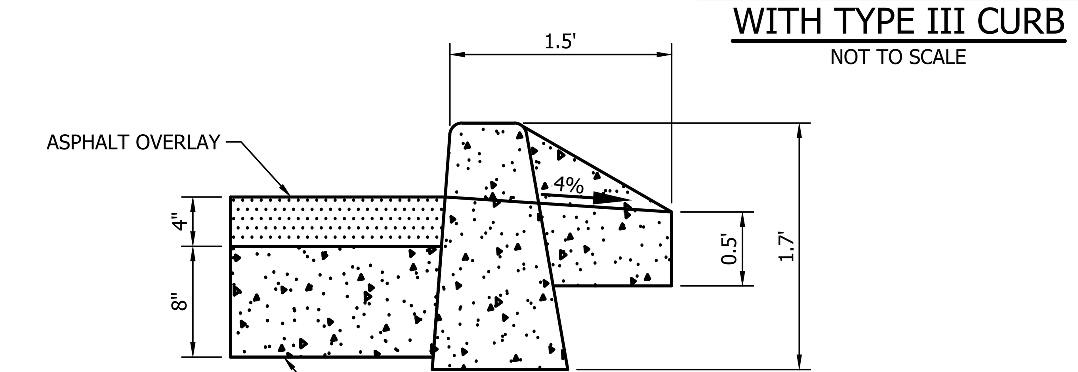
NOTES:
1. USE RU 106 RUB'RNEK LTM AS MANUFACTURED BY HENRY CO., KENT-SEAL NO. 2 AS MANUFACTURED BY HAMILTON-KENT OR EZ-STICK BUTYL-RUBBER-BASED PREFORMED FLEXIBLE SEALANT AS MANUFACTURED BY PRESS-SEAL.
2. MINIMUM 4,500 PSI CONCRETE SHALL BE USED FOR RISER RINGS, ALTERNATE PRODUCTS MAY BE USED WITH PRIOR APPROVAL FROM THE CITY UTILITITES PROJECT ENGINEER.

STR-33-1



CURB TURN-OUT DETAIL WITH TYPE III CURB

NOT TO SCALE



SECTION A-A

NOT TO SCALE

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

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Prefinal Plans
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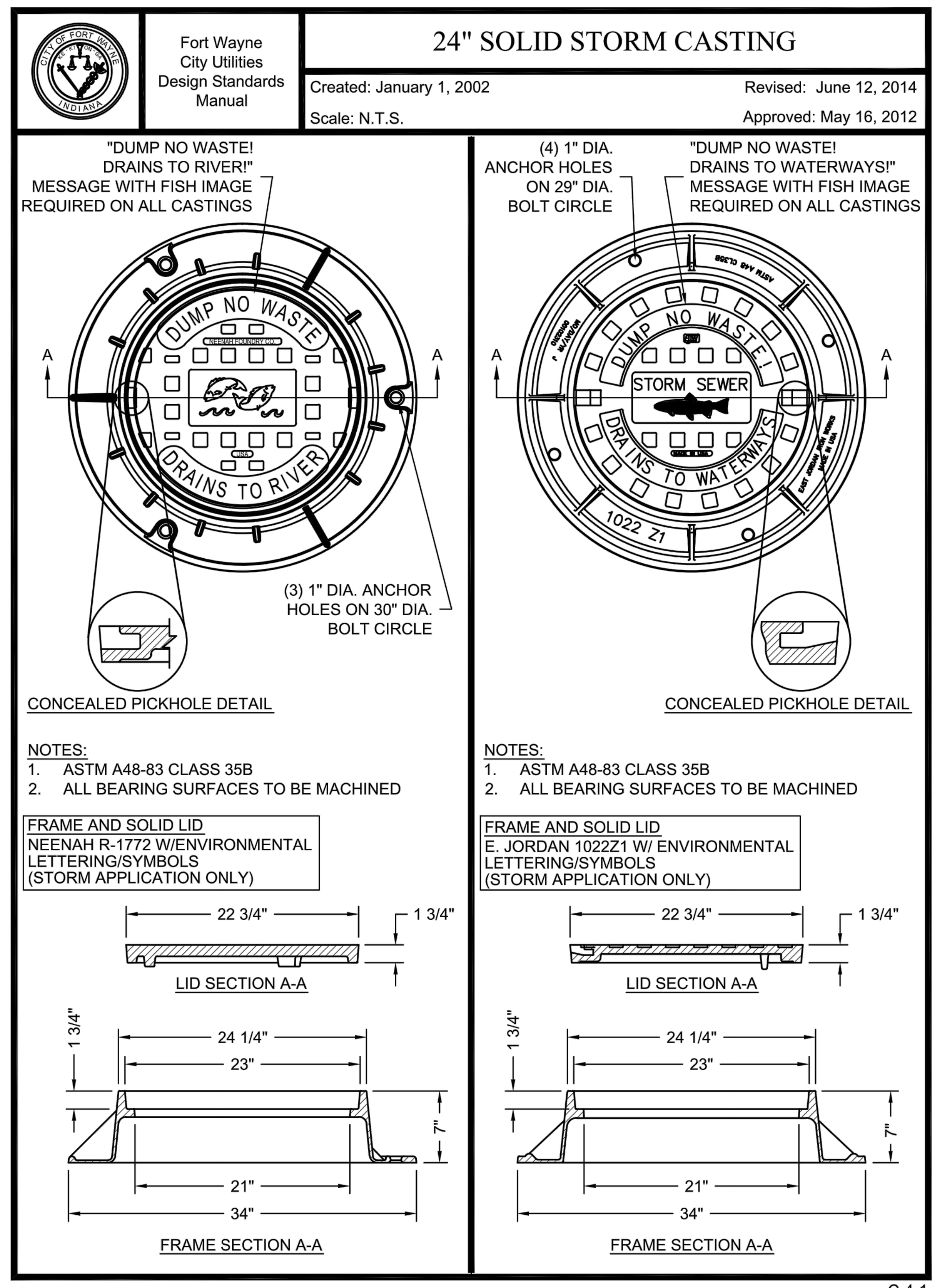
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

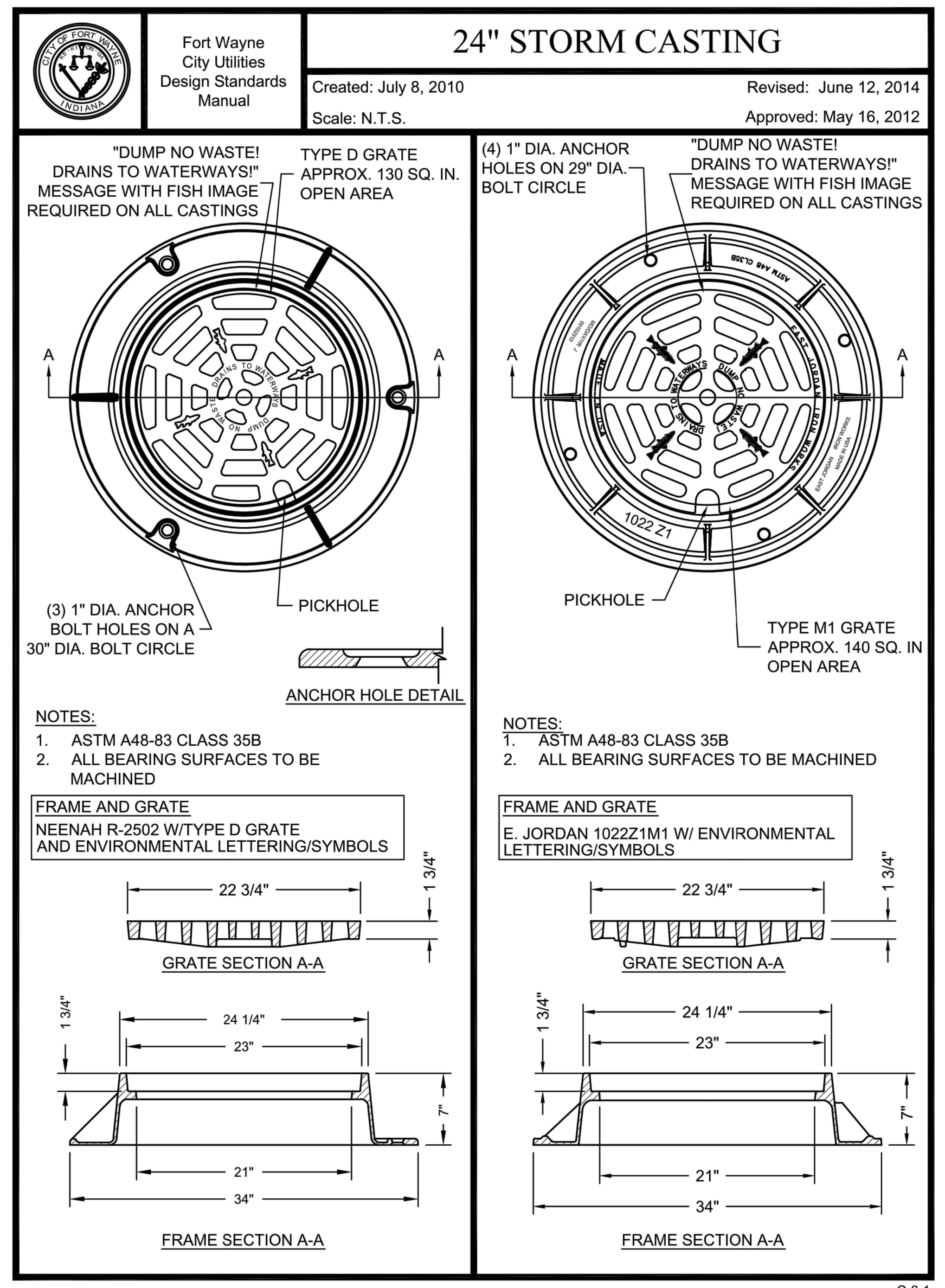
HOBSON ROAD REHABILITITATION

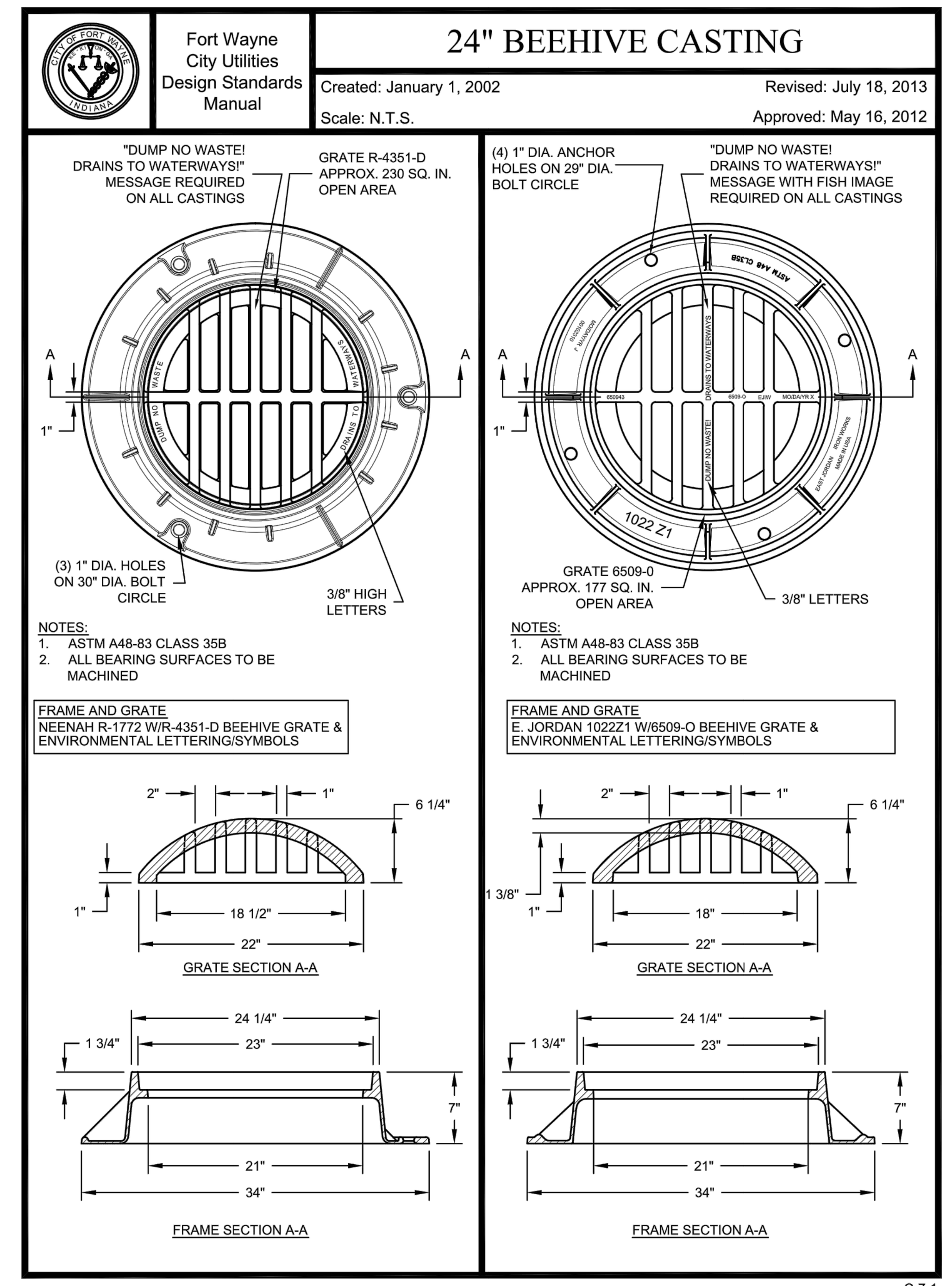
MISCELLANEOUS DETAILS

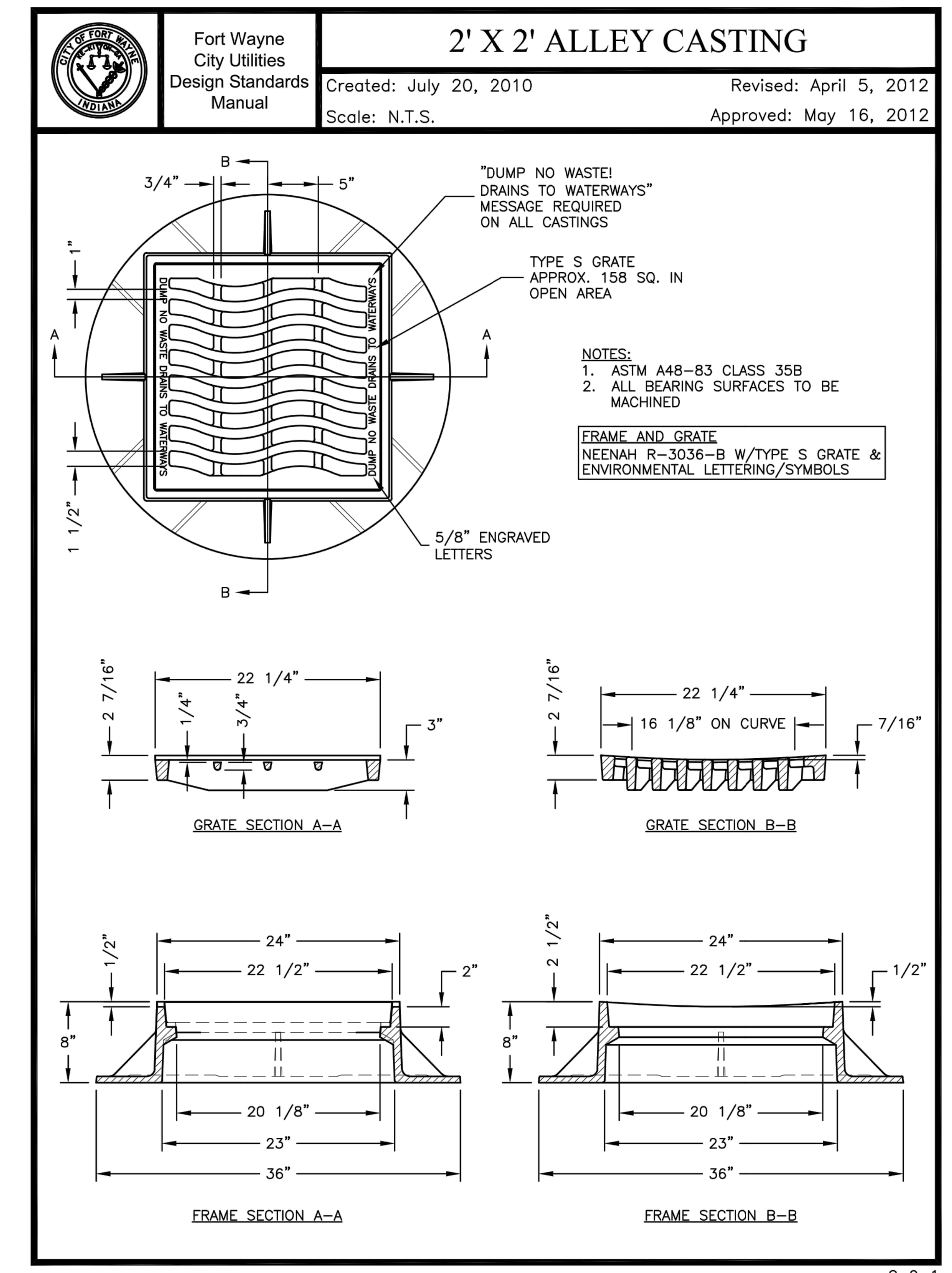
DRAWING NO.

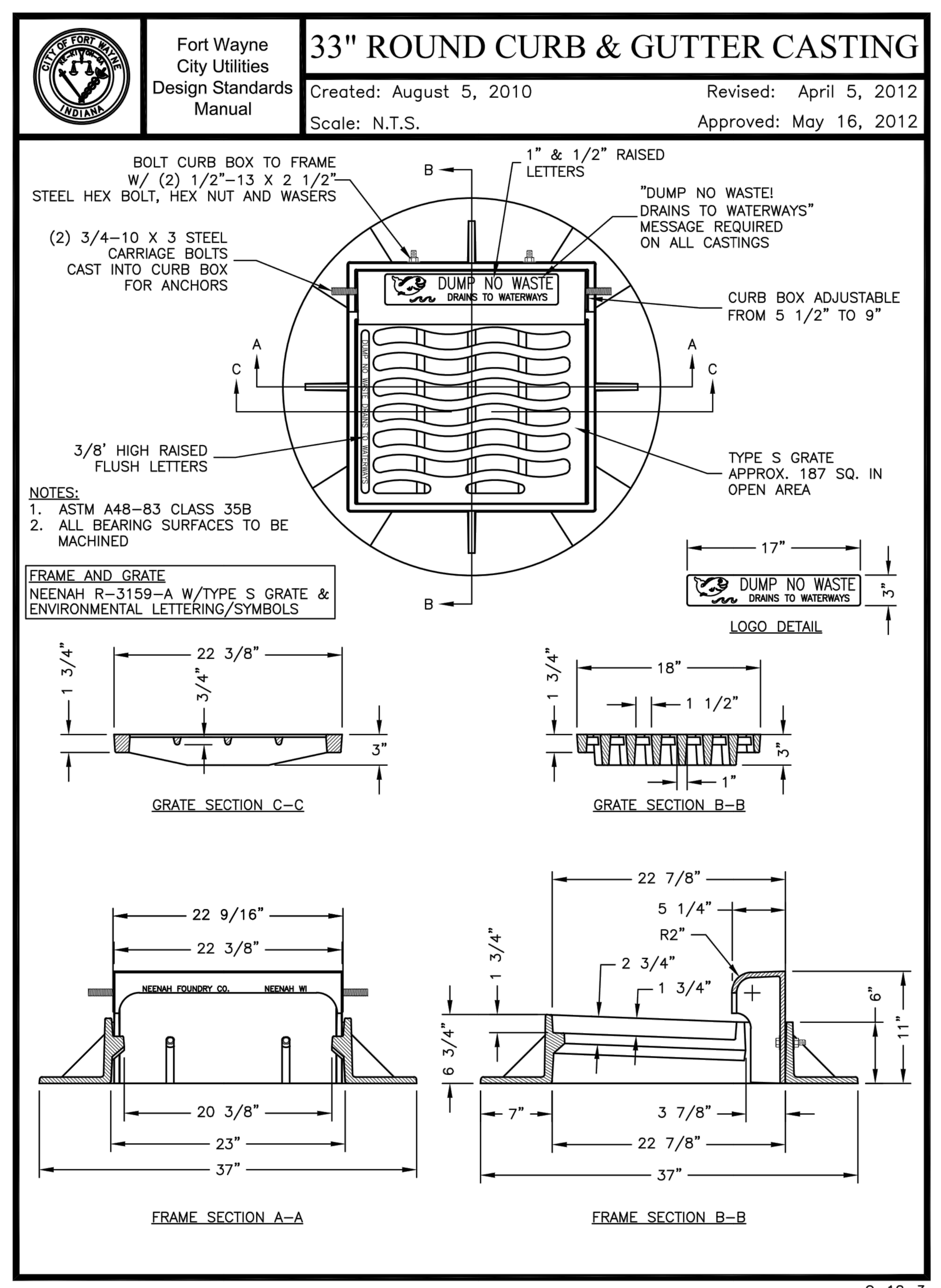
MD3

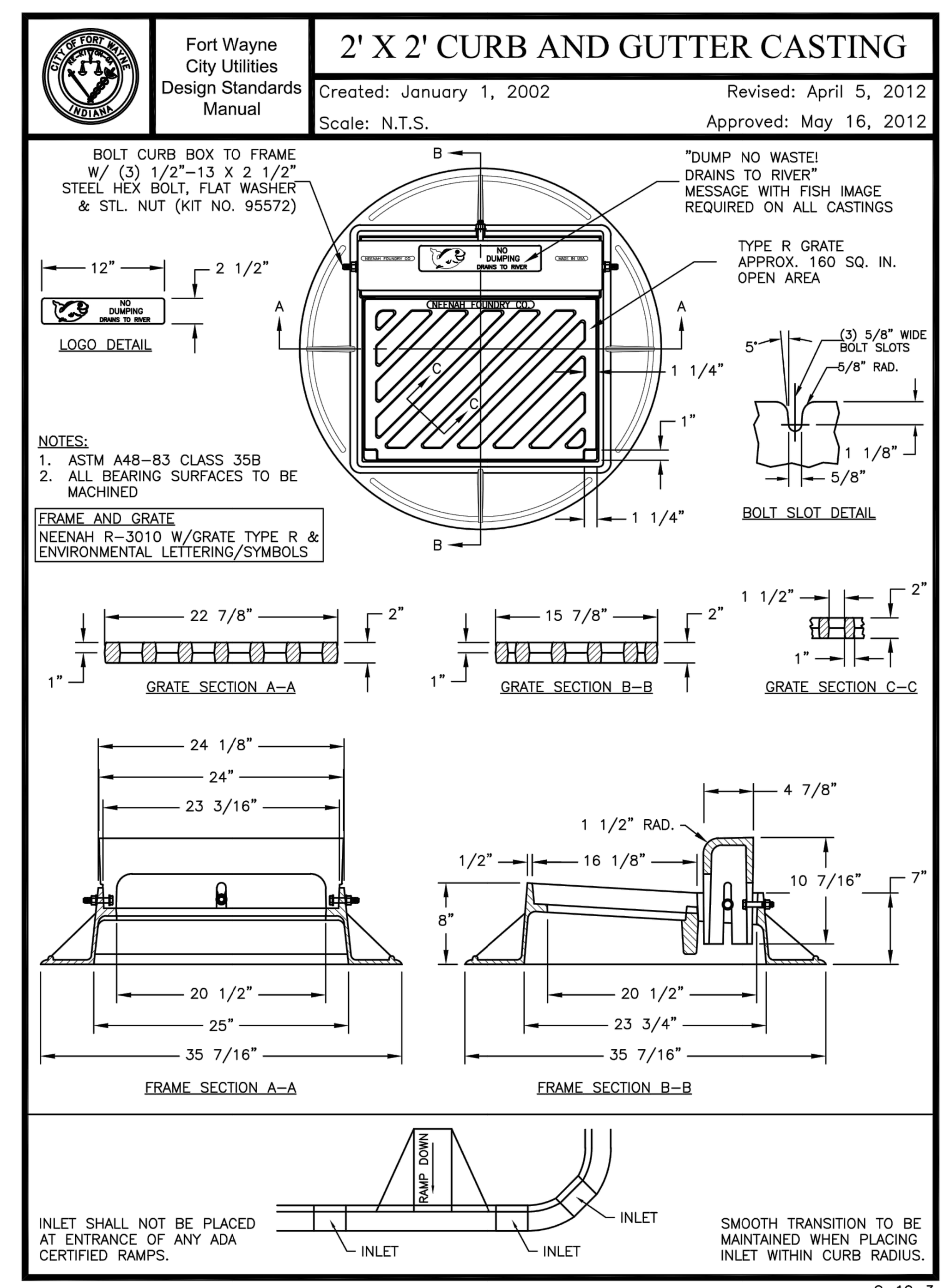


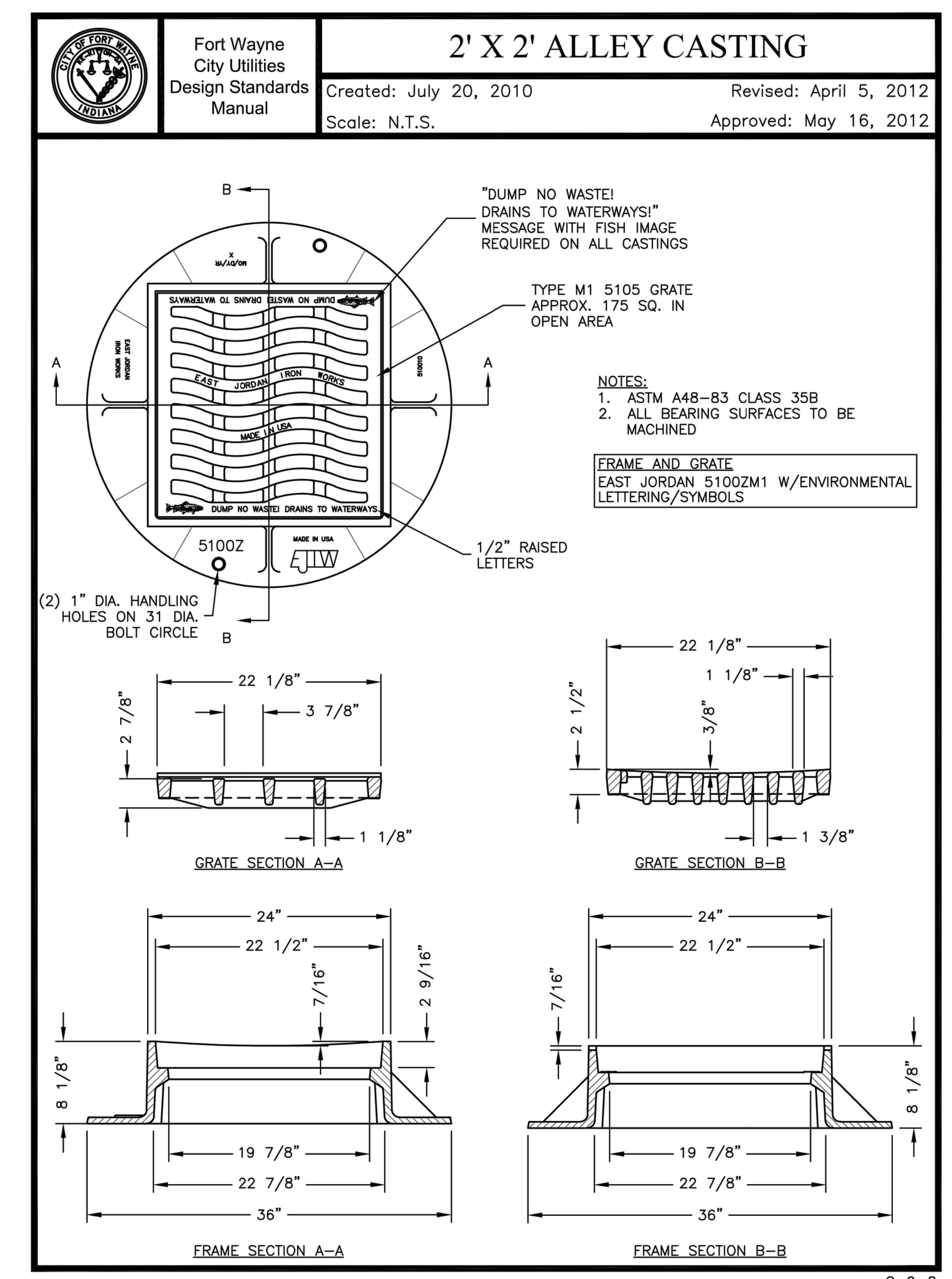












-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
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SCALE:	

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

MISCELLANEOUS DETAILS

DRAWING NO.

MD4

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH FT	LENGTH FT	RADII FT	RADII FT	SURFACE BEYOND R/W: VARIABLE DEPTH MILLING	SURFACE BEYOND R/W: 165#/SYD 9.5MM SURFACE TYPE A	SURFACE BEYOND R/W: VARIABLE DEPTH WEDGE AND LEVEL TYPE A	GRADE 1 %	GRADE 2 %	EXCAVATION CUT CYS	EXCAVATION FILL CYS	SUBGRADE TREATMENT TYPE IA SYS	SUBGRADE TREATMENT TYPE IIIA SYS	ASPHALT MILLING VARIABLE DEPTH SYS	APPROACH MILLING SYS	QC/QA-HMA MATERIAL FOR ROADS: SURFACE 9.5mm 3, 70 (165 #/SYD) TONS	QC/QA-HMA: INTERM. 19.0mm 3, 70 (275) TONS	QC/QA-HMA: BASE 25.0mm 3, 70 (440) TONS	QC/QA-HMA: XXXXX (XXXX) TONS	QC/QA-HMA: XXXXX (XXXX) TONS	HMA MATERIAL FOR ROADS: SURFACE 9.5mm (165 #/SYD) TONS	HMA: INTERM. 12.5mm (275) TONS	HMA: INTERM. 12.5mm (495) TONS	HMA: BASE 25.0mm (660) TONS	HMA: WEDGE & LEVEL (XXXX) TONS	HMA: XXXXXX (XXXX) TONS	ASPHALT MATERIAL FOR: PRIME COAT TONS	ASPHALT MATERIAL FOR: TACK COAT TONS	HMA FOR APPROACHES TYPE B #/SYD XXXX TONS	HMA FOR APPROACHES TYPE B #/SYD XXXX TONS	COMPACTED AGGREGATE, BASE, NO. 53 DEPTH 6" SYS	COMPACTED AGGREGATE, BASE, NO. 53 DEPTH 9" SYS	PCCP FOR APPRAOCHES DEPTH 6" SYS	PCCP FOR APPRAOCHES DEPTH 8" SYS	CONCRETE REMOVAL SYS	REMARKS
Line H																																					
11+60	Commercial Drive	25.9	13	20	20					4.69																									48	46	
12+28.4	Alley	18.2	12																															30		18	
12+60.2	Commercial Drive	28.6	17	20.0	20.0				4.06																										74	52	
13+01.2	Commercial Drive	25.7	16	20	20					0.54																									65	42	
14+09.21	Commercial Drive	19.1	11																																		
14+77.9	Residential Drive	20.0	12							0.57																								32		23	
15+66.2	Residential Drive	32.7	12							1.03																								46		36	
15+73.9	Commercial Drive	46.0	18	20	20																														110	81	
16+29.4	Residential Drive	12.0	12							0.81																								20		16	
17+09.4	Residential Drive	12.0	11							-2.00																								20		13	
17+36.0	Residential Drive	12.0	12						4.36																									20		15	
17+50.0	Dodge Ave	27	25												81											7.5			0.042							65	
17+95.4	Residential Drive	12.1	11							0.31																								20		12	
18+45.0	Residential Drive	11.9	12							-3.22																								20		12	
18+90.1	Residential Drive	18.6	12							-5.37																								30		24	
19+53.1	Residential Drive	14.3	12							-2.98																								24		19	
19+92.7	Residential Drive	12.0	12							-2.17																								20		16	
20+85.2	Residential Drive	15.6	12							-4.47																								25		20	
21+44.1	Residential Drive	12.3	12							-5.02																								21		18	
21+93.9	Residential Drive	14.7	12							-3.74																								24		20	
22+55.5	Residential Drive	28.0	12							-1.10																								40		31	
23+44.3	Residential Drive	11.4	12						-2.33																									21		17	
24+14.4	Charlotte Ave	25	25																																	78	
24+50.3	Residential Drive	12.0	12						-0.72																									21		16	
25+01.7	Residential Drive	12.0	12							1.97																								20		15	
25+26.6	Residential Drive	18.3	12						1.17																									28		23	
25+79.1	Residential Drive	15.4	12							3.88																								24		17	
25+99.0	Residential Drive	18.4	12						2.01																									28		23	
26+00.5	Residential Drive	12.0	12							2.66																								20		15	
26+50.6	Residential Drive	12.0	12							2.59																								20		17	
27+01.2	Residential Drive	12.0	11							2.36																								19		17	
27+56.9	Residential Drive	32.5	12						3.58																									46		35	
28+02.4	Residential Drive	12.0	12							1.44																								20		16	
29+00.1	Residential Drive	12.0	12							1.55																								21		18	
29+26.6	Residential Drive	16.9	12						1.30																									26		19	
29+87.6	Residential Drive	23.2	12							1.48																											
30+06.7	Residential Drive	12.0	12						2.68																												
30+69.4	Kenwood Ave Right	26	25												77											6.50			0.042							63	
31+00.8	Kenwood Ave Left	27	25												77											6.50			0.042							71	
31+49.6	Residential Drive	12.0	12							-0.71																								21		15	
32+00.1	Residential Drive	12.2	12							0.06																								21		17	
32+39.3	Residential Drive	12.0	12						0.58																									19		15	
32+68.4	Residential Drive	12.5	12						1.34																									19		17	
32+95.3	Residential Drive	19.3	12							-1.94																								30		24	
33+31.8	Residential Drive	12.0	12						0.90																									21		16	
33+50.3	Residential Drive	13.5	12							0.93																								22		18	
34+00.7	Residential Drive	13.0	12							2.85																								21		17	
34+12.3	Residential Drive	12.7	12						2.15																									22		17	
34+96.4	Residential Drive	19.3	11							3.25																								28		23	
35+62.1	Residential Drive	19.7	16						3.45																									46		62	
35+94.4	Alley	11.9	12																															20		16	
36+50.3	Residential Drive	12.0	12							2.21																								21		16	
37+17.4	Vance Ave Left	25.9	12																																	73	
TOTALS																																					

-- REVISIONS --			
NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
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DESIGNED BY: MH
CHECKED BY: HF
DATE: 11/30/15
JOB NO:
SCALE:

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

DRAWING NO.
AT1

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII		SURFACE BEYOND R/W: VARIABLE DEPTH MILLING	SURFACE BEYOND R/W: 165#/SYD 9.5MM SURFACE TYPE A	SURFACE BEYOND R/W: VARIABLE DEPTH HMA WEDGE AND LEVEL	GRADE		EXCAVATION		SUBGRADE TREATMENT TYPE IA	SUBGRADE TREATMENT TYPE IIIA	ASPHALT MILLING VARIABLE DEPTH	APPROACH MILLING	QC/QA-HMA MATERIAL FOR ROADS: SURFACE 9.5mm 3, 70	QC/QA-HMA: INTERM. 19.0mm 3, 70	QC/QA-HMA: BASE 25.0mm 3, 70	QC/QA-HMA: XXXXX	QC/QA-HMA: XXXXX	HMA MATERIAL FOR ROADS: SURFACE 9.5mm	HMA: INTERM. 12.5mm	HMA: INTERM. 12.5mm	HMA: BASE 25.0mm	HMA: WEDGE & LEVEL	HMA: XXXXXX	ASPHALT MATERIAL FOR: PRIME COAT	ASPHALT MATERIAL FOR: TACK COAT	HMA FOR APPROACHES TYPE B		COMPACTED AGGREGATE, BASE, NO. 53		PCCP FOR APPRAOCHES		CONCRETE REMOVAL	REMARKS
									1	2	CUT	FILL					#/SYD 165	275	440	XXXX	XXXX	#/SYD 165	275	495	660	XXXX	XXXX			#/SYD XXXX	XXXX	DEPTH 6"	9"	DEPTH 6"	8"		
		FT	FT	FT					%	%	CYS	CYS	SYS	SYS	SYS	SYS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SYS	SYS	SYS	SYS	SYS	
LINE "H"																																					
37+17.3	Vance Ave Right	26.7	11.0																																	89	
38+31.8	Residential Drive	14.3	13.0							0.99																								27		19	
38+51.1	Residential Drive	12.3	10						0.28																									19		15	
39+94.5	Commercial Drive	21.9	16																																54	36	
40+09.7	Eastwood Drive	26.0	25												80											6.5			0.042							65	
40+83.4	Residential Drive	12.1	11						4.41																									19		16	
41+03.8	Residential Drive	12.0	12							2.64																								22		14	
43+02.8	Varsity Lane Right	26	26												77											6.5			0.042							73	
43+18.6	Commercial Drive	17.9	15	20	20																														45	32	
44+06.7	Residential Drive	20.1	12							4.58																								34		24	
44+19.5	Residential Drive	19.7	11						2.77																									29		22	
44+53.0	Commercial Drive	23.6	12	20	20																														46	23	
44+65.5	Residential Drive	20.0	11						2.40																									30		22	
45+87.1	Commercial Drive	21.0	13	20	20																														88	25	
47+00.9	Whitegate Drive	27	25												78											6.5			0.042							53	
47+43.6	Ivy League Drive	27	25												78											6.5			0.042							82	
48+73.4	Residential Drive	10.5	17							4.27																								29		17	
49+27.4	Residential Drive	10.7	15							4.90																								25		13	
50+30.7	Residential Drive	14.6	6							6.60																								13		15	
50+66.1	Commercial Drive	40.6	18	20	20																														100	39	
52+40.4	Commercial Drive	36.0	7	20	20																														35	35	
53+07.9	Commercial Drive	36.8	7	20	20																														35	34	
57+50.5	Commercial Drive	29.2	26	20	20																														103	57	
58+41.3	Commercial Drive	28.5	6	20	20																														25	30	
60+78.1	Commercial Drive	34.4	22	20	20																														103	44	
61+78.9	Rupp Drive Left	25	25												74											6.5			0.042							112	
63+71.0	Trier Rd Left	50.0	18.5																																	123	
63+71.0	Trier Rd Right	50.0	18.5																																	133	
66+05.7	Residential Drive	20.0	15							2.23																								41		23	
67+10.3	Residential Drive	20.0	15							3.09																								41		22	
68+01.1	Residential Drive	18.3	15							1.83																								38		28	
71+03.4	Saint Croix Drive	22	25												66											5.5			0.031							130	
72+63.9	Residential Drive	18.3	16							5.61																								42		40	
74+63.8	Sanibel Drive	20	25												56											4.7			0.028							83	
76+19.4	Residential Drive	12.1	16							2.68																								40		31	
78+44.1	Timberhill Drive	26	25												76											6.5			0.020							107	
82+30.8	College Park Blvd.	40	25												122											10.5			0.065							143	
84+99.3	Commercial Drive	28.5	22	25	25																														99	26	
87+45.2	Commercial Drive	34.4	20	20	20																														95	109	
87+69.8	Commercial Drive	23.8	10																																30	22	
88+92.2	Commercial Drive	40.2	10																																56	56	
10+92.7 - 11+92.0	Hobson Rd																					53		157	208				0.32								
11+92.0 - 53+08.0	Hobson Rd																					1824	3040						11.10								
53+08.0 - 54+08.79	Hobson Rd																					64		190	254				0.39								
55+53.03 - 56+53.0	Hobson Rd																					65		194	259				0.39								
56+53.0 - 88+48.0	Hobson Rd																					1535	2558						9.31								
88+48.0 - 89+48.83	Hobson Rd																					167		199	265				0.40								
TOTALS															942							3708	5598	740	986	80			22.48					1444	1211	3467	

-- REVISIONS --			
NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITITATION

DRAWING NO.

AT2

STRUCTURE DATA

LOCATION					PIPE SIZE	PIPE TYPE	DESCRIPTION	LENGTH	SKEW	FLOW LINE			CASTING TYPE	RIM ELEVATION	BACKFILL METHOD	STRUCTURE BACKFILL		FLOWABLE BACKFILL		RIPRAP					CONCRETE, CLASS "A" FPR STRUCTURES	PIPE END SECTION	PIPE ANCORS		GRATED BOX END SECTION			SAFETY METAL END SECTION		CONNECT TO STR. NO.	VIDEO INSPECTION	PATCHING		REMARKS
STRUCTURE NUMBER	STATION	LEFT	RIGHT	CROSS			MAN HOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE			COVER	UP STREAM	DOWN STREAM								REVETMENT	CLASS I	CLASS II	UNIFORM	GEOTEXTILES														
					INCHES			LFT		FT	ELEVATION	ELEVATION				TYPE	CYS	TYPE	CYS	TONS	TONS	TONS	TONS	SYS	CYS	EACH	TYPE	EACH	TYPE	SLOPE	EACH	SLOPE	EACH		LFT	TYPE	SYS	
	LINE "H"																																					
101	11+98	X					EXISTING 36" DIAMETER INLET																															ADJUST CASTING TO GRADE.
102	11+99		X				EXISTING 18"x24" INLET																															ADJUST CASTING TO GRADE.
103	12+27		X				EXISTING 24" INLET																															ADJUST CASTING TO GRADE.
104	12+28			X			EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
105	12+33	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
106	17+08	X					EXISTING 48" DIAMETER MANHOLE						NEENAH R-1772W, R-4351D	794.41																								REMOVE SOLID LID AND REPLACE WITH BEEHIVE. ADJUST TO GRADE.
107	17+09	X					EXISTING 24" SQUARE INLET																															REMOVE EXISTING INLET AND SECTION OF 12" PIPE CONNECTING TO STR. NO. 106
108	17+10	X			12	RCP	PROPOSED 2'X2' INLET	8		8	787.31	787.23	NEENAH R-3010	793.93																				106				INSTALL NEW INLET WITH 7' OF 12" PIPE CONNECTING TO STR. NO. 106
109	17+15	X					EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
110	17+29		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
111	17+38		X				EXISTING 24" SQUARE INLET																															ADJUST CASTING TO GRADE.
111A	18+68	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
112	20+23	X			18	RCP	EXISTING 24" SQUARE INLET	47		4	782.30	782.77	NEENAH R-1772W, R-4351D	786.89																				113		PCCP	23	REMOVE AND REPLACE WITH 30" ROUND STRUCTURE AND 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE. REMOVE AND REPLACE EXISTING 12" RCP WITH 47' OF 18" RCP CONNECTING TO STR. NO. 113
113	20+23		X		118	RCP	PROPOSED 2'X2' INLET	12		4	782.10	782.00	NEENAH R-3010	787.50																				115		PCCP	2	INSTALL NEW INLET WITH 12' OF 12" PIPE CONNECTING TO STR. NO. 115
114	20+23		X				EXISTING 36" DIAMETER INLET																															REMOVE EXISTING CURB INLET AND SECTION OF 12" PIPE CONNECTING TO STR. NO. 115
115	20+24		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
116	20+30		X				EXISTING 24"X36" INLET																															REMOVE STRUCTURE AND 12" PIPE CONNECTING TO STR. NO. 115. PLUG HOLE IN STR. NO. 115.
117	20+57		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
118	23+97		X				EXISTING 36" SQUARE INLET																															ADJUST CASTING TO GRADE.
119	24+00		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
120	24+01	X					EXISTING 48" DIAMETER MANHOLE						NEENAH R-1772W, R-4351D	795.30																								REPLACE CURB INLET CASTING WITH BEEHIVE. ADJUST TO GRADE.
121	24+16	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
122	24+32		X		12	RCP	PROPOSED 2'X2' INLET	20		7	787.57	787.37	NEENAH R-3010	795.46																				123		PCCP	2	INSTALL NEW INLET WITH 20' OF 12" PIPE CONNECTING TO STR. NO. 123
123	24+34		X				EXISTING 36" SQUARE INLET																															ADJUST CASTING TO GRADE.
124	24+35		X				EXISTING 36" DIAMETER INLET																															REMOVE STRUCTURE AND 12" PIPE CONNECTING TO STR. NO. 123.
125	27+22	X					EXISTING 24" SQUARE INLET																															REMOVE EXISTING STRUCTURE.
126	27+22	X			12	RCP	PROPOSED 2'X2' INLET	8		4	796.92	796.84	NEENAH R-3010	801.66																				128		PCCP	2	INSTALL NEW INLET WITH 4.5' OF 12" PIPE CONNECTING TO EXISTING 12" PIPE.
127	27+23		X				EXISTING 24" SQUARE INLET																															REMOVE EXISTING STRUCTURE.
128	27+23		X		12	RCP	PROPOSED 2'X2' INLET	5		1	799.25	799.07	NEENAH R-1772W, R-4351D	801.86																								INSTALL NEW INLET WITH 5' OF 12" PIPE CONNECTING TO EXISTING 12" PIPE.
129	29+39	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
130	30+37		X				EXISTING 24" SQUARE INLET																															REMOVE STRUCTURE AND 12" PIPE CONNECTING TO STR. NO. 132.
131	30+37		X		12	RCP	PROPOSED 2'X2' INLET	13		2	799.50	799.37	NEENAH R-3010	803.62																				132				INSTALL NEW INLET WITH 13' OF 12" PIPE CONNECTING TO STR. NO. 132.
132	30+49		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.

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PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

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SCALE:	H=1:20

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

STRUCTURE DATA TABLE

DRAWING NO.

SD1

STRUCTURE DATA

STRUCTURE NUMBER	STATION	LOCATION LEFT	RIGHT	CROSS	PIPE SIZE	PIPE TYPE	DESCRIPTION MAN HOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	CASTING TYPE	RIM ELEVATION	BACKFILL METHOD	STRUCTURE BACKFILL		FLOWABLE BACKFILL		RIPRAP REVETMENT	CLASS I	CLASS II	UNIFORM	GEOTEXTILES	CONCRETE, CLASS "A" FPR STRUCTURES	PIPE END SECTION	PIPE ANCORS		GRATED BOX END SECTION			SAFETY METAL END SECTION		CONNECT TO STR. NO.	VIDEO INSPECTION	PATCHING		REMARKS
					INCHES			LFT		FT	ELEVATION	ELEVATION				TYPE	CYS	TYPE	CYS	TONS	TONS	TONS	TONS	SYS	CYS	EACH	TYPE	EACH	TYPE	SLOPE	EACH	SLOPE	EACH		LFT	TYPE	SYS	
	LINE "H"																																					
133	30+69	X					EXISTING 24" SQUARE INLET																															REMOVE STRUCTURE AND 12" PIPE CONNECTING TO STR. NO. 134. PLUG HOLE IN STR. NO. 134.
134	30+79	X					EXISTING 48" DIAMETER MANHOLE						NEENAH R-3010	804.09																						PCCP	2	REPLACE SOLID LID CASTING WITH 2'X2' CURB AND GUTTER CASTING. ADJUST CASTING TO GRADE. PLUG HOLE FROM 12" PIPE FROM STR. NO. 133.
135	30+88		X				EXISTING 24" SQUARE INLET																													PCCP	2	ADJUST CASTING TO GRADE.
136	31+17	X					EXISTING 24" SQUARE INLET																													PCCP	2	ADJUST CASTING TO GRADE.
137	33+89	X					EXISTING SIGNAL HANDHOLE																															ADJUST CASTING TO GRADE.
138	36+81		X				PROPOSED 2'X2' INLET						NEENAH R-3010	802.74																						PCCP	2	INSTALL NEW INLET AND RECONNECT TO EXISTING 12"
139	36+82		X				EXISTING 24" SQUARE INLET																															REMOVE STRUCTURE AND 5' OF 12" PIPE.
140	36+82	X					EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
141	37+05			X			EXISTING SIGNAL HANDHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
142	37+05		X				EXISTING 24" SQUARE INLET																													PCCP	2	ADJUST CASTING TO GRADE.
143	37+17			X			EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
144	37+29		X				EXISTING 24" SQUARE INLET																													PCCP	2	ADJUST CASTING TO GRADE.
145	37+30			X			EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
146	39+71	X					EXISTING 48"DIAMETER MANHOLE																															REMOVE STRUCTURE AND 35' OF 15" PIPE.
147	39+71		X				EXISTING 24" SQUARE INLET						NEENAH R-1772W, R-4351D	797.75																								REPLACE CURB INLET CASTING. REPLACE WITH BEEHIVE CASTING. ADJUST CASTING TO GRADE.
148	39+71	X			15	RCP	PROPOSED 48" STORM MANHOLE	35		4	790.31	790.24	NEENAH R-3010	798.19																				149		PCCP	2	INSTALL NEW STRUCTURE WITH 35' OF 15" PIPE CONNECTING TO STR. NO. 149.
149	40+09			X			EXISTING 72" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
150	41+67			X			EXISTING TELEPHONE MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
151	42+63		X		12	RCP	PROPOSED 48" STORM MANHOLE	7		4	790.31	790.24	NEENAH R-1772W, R-4351D	793.57																				155				INSTALL NEW STRUCTURE WITH BEEHIVE CASTING AND 7' OF 12" PIPE. RECONNECT TO EXISTING 12".
152	42+71		X				EXISTING 48" DIAMETER MANHOLE																															REMOVE EXISTING STRUCTURE.
153	42+78		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
154	42+87		X				EXISTING 24" SQUARE INLET																															REMOVE INLET AND 1.5' OF 12" PIPE.
155	42+89		X				PROPOSED 2'X2' INLET						NEENAH R-3010	794.05																				158		PCCP	2	INSTALL NEW INLET AND CONNECT EXISTING 12" PIPE.
156	43+12	X					EXISTING 36" DIAMETER INLET																													PCCP	2	ADJUST CASTING TO GRADE.
157	43+21	X					EXISTING MANHOLE, SIZE UNKNOWN																													PCCP	2	ADJUST CASTING TO GRADE.
158	43+21		X				EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
159	43+25	X					EXISTING 36" DIAMETER INLET																													PCCP	2	ADJUST CASTING TO GRADE.
160	43+37	X					EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
161	43+38	X					EXISTING 36" DIAMETER INLET																															REMOVE STRUCTURE AND 12" RCP PIPE CONNECTED TO STR. NO. 157.
162	43+38	X			15	RCP	PROPOSED 2'X2' INLET	5		3	789.60	789.47	NEENAH R-3036-B	793.80																				157		PCCP	2	INSTALL NEW INLET AND 14' OF 15" RCP TO STR. NO. 157. INSTALL 5' OF 15" RCP TO EXISTING 15" TO WEST.
					15	RCP		14		3	784.42	789.28																										
163	45+45		X				EXISTING 48" DIAMETER MANHOLE																															NO CHANGE REQUIRED.
164	46+08			X			EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
165	46+64	X			15	RCP	PROPOSED 33" ROUND INLET	4		2	788.79	788.59	NEENAH R-1772W, R-4351D	791.73																								INSTALL NEW INLET AND 4' OF 15"RCP TO EXISTING 15" RCP.
166	46+65	X					EXISTING 36" DIAMETER INLET																															REMOVE EXISTING INLET.
167	46+66		X		15	RCP	PROPOSED 2'X2' INLET	8		3	787.58	787.50	NEENAH R-1772W, R-4351D	792.17																				168				INSTALL NEW INLET AND 8' OF 15" RCP TO STR. NO. 168.

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
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DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	H=1:20

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

STRUCTURE DATA TABLE

DRAWING NO.

SD2

STRUCTURE DATA

LOCATION						DESCRIPTION				FLOW LINE										RIPRAP																		
STRUCTURE NUMBER	STATION	LEFT	RIGHT	CROSS	PIPE SIZE	PIPE TYPE	MAN HOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	UP STREAM	DOWN STREAM	CASTING TYPE	RIM ELEVATION	BACKFILL METHOD	STRUCTURE BACKFILL		FLOWABLE BACKFILL		REVETMENT	CLASS I	CLASS II	UNIFORM	GEOTEXTILES	CONCRETE, CLASS "A" FPR STRUCTURES	PIPE END SECTION	PIPE ANCORS		GRATED BOX END SECTION			SAFETY METAL END SECTION		CONNECT TO STR. NO.	VIDEO INSPECTION	PATCHING		REMARKS
					INCHES			LFT		FT	ELEVATION	ELEVATION				TYPE	CYS	TYPE	CYS	TONS	TONS	TONS	TONS	SYS	CYS	EACH	TYPE	EACH	TYPE	SLOPE	EACH	SLOPE	EACH		LFT	TYPE	SYS	
	LINE "H"																																					
168	46+70		X				EXISTING 72"X72" BOX STRUCTURE																															ADJUST CASTING TO GRADE.
169	46+86		X				EXISTING 48"X48" BOX STRUCTURE																															ADJUST CASTING TO GRADE.
170	47+24		X				EXISTING 24" SQUARE INLET																															REMOVE EXISTING INLET.
171	47+25		X				PROPOSED 2'X2' INLET						NEENAH R-3010	792.05																						PCCP	2	INSTALL NEW INLET AND CONNECT EXISTING 12".
172	47+63		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
173	48+17		X				EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
174	49+45		X				EXISTING 48" DIAMETER MANHOLE																															NO CHANGE REQUIRED.
175	50+44			X			EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
176	50+91		X				BURIED MANHOLE, SIZE UNKNOWN																															ADJUST CASTING TO GRADE.
177	52+03		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
178	52+04	X					EXISTING 24" SQUARE INLET						NEENAH R-1772W, R-4351D	786.91																								REMOVE CURB AND GUTTER CASTING. REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
179	52+04	X					EXISTING 24" SQUARE INLET																															ADJUST CASTING TO GRADE.
180	52+04	X					PROPOSED 2'X2' INLET						NEENAH R-3010	787.54																						PCCP	2	INSTALL NEW INLET. INTERCEPT EXISTING 12".
181	52+04		X				EXISTING 36" DIAMETER INLET																															ADJUST CASTING TO GRADE.
182	53+46		X				EXISTING 48" DIAMETER MANHOLE																															NO CHANGE REQUIRED.
183	53+86		X				EXISTING 48" DIAMETER MANHOLE																															NO CHANGE REQUIRED.
184	54+17	X					EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
185	55+39		X				EXISTING 36" DIAMETER INLET																															ADJUST CASTING TO GRADE.
186	55+73			X			EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
187	55+80		X				EXISTING 72" DIAMETER MANHOLE						NEENAH R-1772W, R-4351D	788.90																								REMOVE CURB AND GUTTER CASTING AND REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
188	55+81	X					EXISTING UTILITY HANDHOLE																															NO CHANGE REQUIRED.
189	55+83	X					EXISTING 48" DIAMETER MANHOLE																															NO CHANGE REQUIRED.
190	56+31			X			EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
191	57+10		X				EXISTING 48" DIAMETER MANHOLE						NEENAH R-1772W, R-4351D	788.08																								REMOVE CURB AND GUTTER CASTING AND REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
192	57+35		X				EXISTING 60" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
193	58+68	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
194	58+96		X				EXISTING 24" SQUARE INLET						NEENAH R-1772W, R-4351D	788.40																								REMOVE CURB AND GUTTER CASTING AND REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
195	58+96	X					EXISTING 24" SQUARE INLET																															ADJUST CASTING TO GRADE.
196	58+97		X				PROPOSED 2'X2' INLET						NEENAH R-3010	788.21																						PCCP	2	INTERCEPT EXISTING 15" RCP AND INSTALL NEW INLET.
197	61+07	X					EXISTING 36" DIAMETER INLET																															REMOVE EXISTING INLET AND 12" RCP CONNECTING TO STR. NO. 198.
198	61+08	X					PROPOSED 2'X2' INLET						NEENAH R-3010	790.86																						PCCP	2	INTERCEPT EXISTING 12" RCP PIPE AND INSTALL NEW CURB INLET.
199	61+08		X				PROPOSED 2'X2' INLET						NEENAH R-3010	790.86																						PCCP	2	INTERCEPT EXISTING 12" RCP PIPE AND INSTALL NEW CURB INLET.
200	61+08		X				EXISTING 36" DIAMETER INLET						NEENAH R-1772W, R-4351D	790.25																								REMOVE CURB AND GUTTER CASTING AND REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
201	61+15	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

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Prefinal Plans
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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

STRUCTURE DATA TABLE

DRAWING NO.
SD3

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION: STATION	LOCATION: LEFT	LOCATION: RIGHT	LOCATION: CROSS	PIPE SIZE (INCHES)	PIPE TYPE	DESCRIPTION: MAN HOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH (LFT)	SKEW	FLOW LINE: COVER (FT)	FLOW LINE: UP STREAM (ELEVATION)	FLOW LINE: DOWN STREAM (ELEVATION)	CASTING TYPE	RIM ELEVATION	BACKFILL METHOD	STRUCTURE BACKFILL: TYPE	STRUCTURE BACKFILL: CYS	FLOWABLE BACKFILL: TYPE	FLOWABLE BACKFILL: CYS	RIPRAP: REVETMENT (TONS)	RIPRAP: CLASS I (TONS)	RIPRAP: CLASS II (TONS)	RIPRAP: UNIFORM (TONS)	GEOTEXTILES (SYS)	CONCRETE, CLASS "A" FPR STRUCTURES (CYS)	PIPE END SECTION (EACH)	PIPE ANCORS: TYPE	PIPE ANCORS: EACH	GRATED BOX END SECTION: TYPE	GRATED BOX END SECTION: SLOPE	GRATED BOX END SECTION: EACH	SAFETY METAL END SECTION: SLOPE	SAFETY METAL END SECTION: EACH	CONNECT TO STR. NO.	VIDEO INSPECTION (LFT)	PATCHING: TYPE	PATCHING: SYS	REMARKS
	LINE "H"																																					
202	63+09			X			EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
203	63+12	X					EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
204	63+29		X				EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
205	63+94			X			EXISTING UTILITY HANDHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
206	64+34			X			EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
207	65+67		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
208																																						STRUCTURE NUMBER NOT USED.
209	66+76	X					EXISTING 36" DIAMETER INLET																															REMOVE CURB AND GUTTER CASTING AND REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
210	66+78		X				EXISTING 48" DIAMETER MANHOLE						NEENAH R-1772W, R-4351D	782.90																								REMOVE CURB AND GUTTER CASTING AND REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
211	66+98	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
212	68+68		X				EXISTING 48" DIAMETER MANHOLE						EAST JORDAN 1022Z1PT																									REMOVE AND REPLACE CASTING WITH WATER TIGHT CASTING. ADJUST CASTING TO GRADE.
213	69+33		X				EXISTING 36" DIAMETER INLET						NEENAH R-1772W, R-4351D	779.96																								REMOVE CURB AND GUTTER CASTING AND REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
214	69+74	X			12	RCP	PROPOSED 2'X2' INLET	20		3	776.25	776.05	NEENAH R-1772W, R-4351D	779.81																								INSTALL NEW INLET AND 20' OF 12" PIPE DRAINING INTO THE 78" RCP PIPE.
215	69+86	X					EXISTING 48" DIAMETER MANHOLE																															REMOVE EXISTING MANHOLE AND EXISTING 12" PIPE.
216	69+99	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
217	70+25		X				EXISTING 48" DIAMETER MANHOLE						EAST JORDAN 1022Z1PT																									REMOVE AND REPLACE CASTING WITH WATER TIGHT CASTING. ADJUST CASTING TO GRADE.
218	70+84		X				EXISTING 36" DIAMETER INLET																															ADJUST CASTING TO GRADE.
219	71+24		X				EXISTING 36" DIAMETER INLET																															ADJUST CASTING TO GRADE.
220	71+30		X				EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
221	71+49		X				EXISTING 36" DIAMETER INLET						NEENAH R-1772W, R-4351D	779.16																								REMOVE CURB AND GUTTER CASTING. REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
222	71+50		X				PROPOSED 2'X2' INLET						NEENAH R-3010	779.77																								INTERCEPT EXISTING 18" RCP PIPE. INSTALL NEW CURB INLET. ADJUST CASTING TO GRADE.
223	71+57	X			24	RCP	PROPOSED 2'X2' INLET	12			774.12	774.00	NEENAH R-3010	779.78																				225		PCCP	2	INTERCEPT EXISTING 18" RCP PIPE. INSTALL NEW CURB INLET AND 12' OF 24" PIPE TO STR. NO. 225.
224	71+58	X					EXISTING 36" DIAMETER INLET																															REMOVE EXISTING STRUCTURE AND 24" PIPE.
225	71+59	X					EXISTING 60" DIAMETER MANHOLE						NEENAH R-1772W, R-4351D	780.27																								ADJUST CASTING TO GRADE.
226	73+29			X			EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
227	74+40			X			EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
228	74+60	X					EXISTING 60" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
229	74+66	X					EXISTING 36" DIAMETER INLET																															REMOVE EXISTING INLET AND 18" RCP PIPE CONNECTING TO STR. NO. 228.
230	74+70	X			18	RCP	PROPOSED 2'X2' INLET	15		4	775.98	775.83	NEENAH R-3010	781.59																				228		PCCP	2	INSTALL NEW CURB INLET AND 15' OF 18" PIPE TO STR. NO. 228.
231	75+03		X				EXISTING 48" DIAMETER MANHOLE						NEENAH R-1772W, R-4351D	781.12																								REMOVE CURB AND GUTTER CASTING AND REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
232	75+96	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
233	77+00			X			EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

STRUCTURE DATA TABLE

DRAWING NO.

SD4

STRUCTURE DATA

LOCATION STRUCTURE NUMBER	LOCATION STATION	LOCATION LEFT	LOCATION RIGHT	LOCATION CROSS	PIPE SIZE INCHES	DESCRIPTION PIPE TYPE	DESCRIPTION MAN HOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH LFT	SKEW	FLOW LINE COVER FT	FLOW LINE UP STREAM ELEVATION	FLOW LINE DOWN STREAM ELEVATION	CASTING TYPE	RIM ELEVATION	BACKFILL METHOD	STRUCTURE BACKFILL TYPE	STRUCTURE BACKFILL CYS	FLOWABLE BACKFILL TYPE	FLOWABLE BACKFILL CYS	RIPRAP REVETMENT TONS	RIPRAP CLASS I TONS	RIPRAP CLASS II TONS	RIPRAP UNIFORM TONS	RIPRAP GEOTEXTILES SYS	CONCRETE, CLASS "A" FPR STRUCTURES CYS	PIPE END SECTION EACH	PIPE ANCORS TYPE	PIPE ANCORS EACH	GRATED BOX END SECTION TYPE	GRATED BOX END SECTION SLOPE	GRATED BOX END SECTION EACH	SAFETY METAL END SECTION SLOPE	SAFETY METAL END SECTION EACH	CONNECT TO STR. NO.	VIDEO INSPECTION LFT	PATCHING TYPE	PATCHING SYS	REMARKS
	LINE "H"																																					
234	77+02		X		12	RCP	PROPOSED 2'X2' INLET	13		3	779.57	779.44	NEENAH R-3010	783.49																				238		PCCP	2	INSTALL NEW CURB INLET AND 13' OF 12" PIPE TO CONNECTING TO STR. NO. 238.
235	77+08		X				EXISTING 24" DIAMETER INLET																															REMOVE EXISTING STRUCTURE AND 12" PIPE CONNECTING TO STR. NO. 238.
236	78+09	X					EXISTING 24" SQUARE INLET																															REMOVE EXISTING STRUCTURE AND 36" PIPE CONNECTING TO STR. NO. 237.
237	78+09	X			36	RCP	EXISTING 60" DIAMETER MANHOLE	11		5	777.03	777.98																										INSTALL 11' OF NEW 36" RCP FROM STRUCTURE TO EXISTING 36".
238	78+11		X				EXISTING 60" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
239	78+66		X				EXISTING 36" DIAMETER INLET						NEENAH R-1772W, R-4351D	784.06																								REMOVE CURB AND GUTTER CASTING. REPLACE WITH 24" BEEHIVE CASTING. ADJUST CASTING TO GRADE.
240	78+84			X			EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
241	79+95	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
242	80+97		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
243	81+66	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
244	81+75	X					EXISTING 24" SQUARE INLET																															REMOVE EXISTING STRUCTURE AND 12" RCP PIPE CONNECTING TO STR. NO. 245.
245	81+76	X					EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
246	81+76	X					PROPOSED 2'X2' INLET						NEENAH R-3010	787.72																				244				REMOVE SOLID LID CASTING. REPLACE WITH CURB AND GUTTER CASTING. ADJUST CASTING TO GRADE.
247	81+78		X				EXISTING 48" DIAMETER MANHOLE																															REMOVE CURB AND GUTTER CASTING. REPLACE WITH BEEHIVE CASTING.
248	82+05	X					EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
249	84+19	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
250	84+57	X					EXISTING 24" SQUARE INLET																															REMOVE EXISTING STRUCTURE AND 12" RCP PIPE.
251	84+57	X					EXISTING 48" DIAMETER MANHOLE						NEENAH R-3010	789.49																								REMOVE SOLID LID CASTING. REPLACE WITH CURB AND GUTTER CASTING. ADJUST CASTING TO GRADE.
252	84+77		X				EXISTING 24" SQUARE INLET						NEENAH R-1772W, R-4351D	789.94																								REMOVE CURB AND GUTTER CASTING. REPLACE WITH BEEHIVE CASTING. ADJUST CASTING TO GRADE.
253	84+95		X				EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
254	86+87	X					EXISTING TELEPHONE MANHOLE																															ADJUST CASTING TO GRADE.
255	87+01	X					EXISTING 24" DIAMETER INLET																															ADJUST CASTING TO GRADE.
256	87+01	X					PROPOSED 2'X2' INLET						NEENAH R-3010	791.90																								INTERCEPT EXISTING 12" RCP PIPE. INSTALL NEW CURB INLET. ADJUST CASTING TO GRADE.
257	87+01		X				EXISTING 48" DIAMETER MANHOLE																															ADJUST CASTING TO GRADE.
258	87+19			X			EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
259	87+37			X			EXISTING 48" DIAMETER MANHOLE																													PCCP	2	ADJUST CASTING TO GRADE.
260	89+21	X					EXISTING 24"X36" RECTANGULAR INLET																													PCCP	2	ADJUST CASTING TO GRADE.
261	89+27	X					EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
262	89+30		X				EXISTING UTILITY HANDHOLE																															ADJUST CASTING TO GRADE.
263	89+48		X				EXISTING 24"X36" RECTANGULAR INLET																															ADJUST CASTING TO GRADE.

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

STRUCTURE DATA TABLE

DRAWING NO.

SD5

UNDERDRAIN TABLE

UNDERDRAIN PIPE LIMITS: FROM STA. / TO STA.	UNDERDRAIN PIPE LIMITS: LT/RT/M	UNDERDRAIN PIPE: TYPE 4 PIPE 4 INCH	UNDERDRAIN PIPE: TYPE 4 PIPE 6 INCH	GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDERDRAIN PIPE TO STR. NO. ___	STRUCTURE INVERT ELEVATION	OUTLET PIPE: 45 DEGREE LEBOS REQUIRED (1 OR 2)	6 INCH OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ___	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCUTRE NO. ___	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTORS: OUTLET PROTECTOR NO. ___	OUTLET PROTECTOR TYPE 1	OUTLET PROTECTOR TYPE 2	OUTLET PROTECTOR TYPE 3	OUTLET PROTECTOR TYPE	LOCATION: OUTSIDE LEFT	LOCATION: MEDIAN LEFT	LOCATION: MEDIAN RIGHT	LOCATION: OUTSIDE RIGHT	REMARKS
		LFT	LFT	SYS	CYS	TONS	%		YES/NO				LFT							CYS	TONS										
LINE "H"			0	0	0																										
Sta. 11+00 Sta. 15+85	RT		485	458	44			793.60	NO	102	789.15																				
Sta. 15+86 Sta. 20+22	RT		436	412	39			793.60	NO	113	785.27																				
Sta. 16+10 Sta. 17+08	LT		98	93	9			793.60	NO	108	791.90																				
Sta. 20+32 Sta. 23+90	RT		358	338	32			793.00	NO	113	785.31																				
Sta. 24+32 Sta. 27+17	RT		285	269	26			799.66	NO	122	793.41																				
Sta. 24+02 Sta 27+12	LT		310	293	28			799.36	NO	120	792.73																				
Sta. 27+24 Sta. 30+34	LT		310	293	28			801.91	NO	126	799.59																				
Sta. 27+25 Sta. 30+30	RT		305	288	27			801.89	NO	128	799.61																				
Sta. 31+20 Sta. 32+35	LT		115	109	10			805.16	NO	136	802.35																				
Sta. 30+90 Sta. 32+35	RT		145	137	13			805.16	NO	135	802.19																				
Sta. 32+36 Sta. 36+80	LT		444	419	40			805.16	NO	140	800.77																				
Sta. 32+36 Sta. 36+80	RT		444	419	40			805.16	NO	138	800.77																				
Sta. 37+50 Sta. 39+70	RT		220	208	20			800.44	NO	147	796.06																				
Sta. 43+40 Sta. 47+22	RT		382	361	34			791.65	NO	171	789.94																				
Sta. 47+60 Sta. 52+03	RT		443	418	40			789.77	NO	181	785.40																				
Sta. 47+22 Sta. 51+00	LT		378	357	34			789.95	NO	Bioretention underdrain																					Connect North end of underdrain to South end of bioretention undrain.
Sta. 56+22 Sta. 58+95	LT		273	258	25			786.81	NO	195	786.07																				
Sta. 58+98 Sta. 63+15	LT		417	394	38			791.54	NO	196	786.07																				
Sta. 64+10 Sta. 66+77	RT		267	252	24			790.96	NO	210	782.65																				
Sta. 64+20 Sta. 66+74	LT		254	240	23			790.76	NO	208	782.74																				
Sta. 66+85 Sta. 68+15	RT		130	123	12			782.43	NO	Bioretention underdrain																					Connect North end of underdrain to South end of bioretention undrain.
Sta. 71+60 Sta. 74+60	LT		300	283	27			779.36	NO	223	777.64																				
Sta. 72+80 Sta. 74+44	RT		164	155	15			779.19	NO	Bioretention underdrain																					Connect South end of underdrain to North end of bioretention undrain.
Sta. 74+69 Sta. 78+04	LT		335	316	30			781.80	NO	230	779.36																				
Sta. 75+94 Sta. 78+04	RT		210	198	19			781.80	NO	Bioretention underdrain																					
Sta. 78+10 Sta. 81+70	LT		360	340	32			785.67	NO	237	781.80																				
Sta. 82+75 Sta. 84+75	RT		200	189	18			786.28	NO	252	784.74																				
Sta. 81+77 Sta. 84+52	LT		275	260	25			787.40	NO	246	785.72																				
Sta. 84+59 Sta. 86+95	LT		236	223	21			789.74	NO	251	787.42																				
Sta. 87+03 Sta. 89+00	LT		197	186	18			792.40	NO	256	789.80																				
Totals:			**8776**	**8288**	**790**																										

-- REVISIONS --

NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
www.vsengineering.com
Phone: (260) 489-6635
Fax: (260) 489-6605

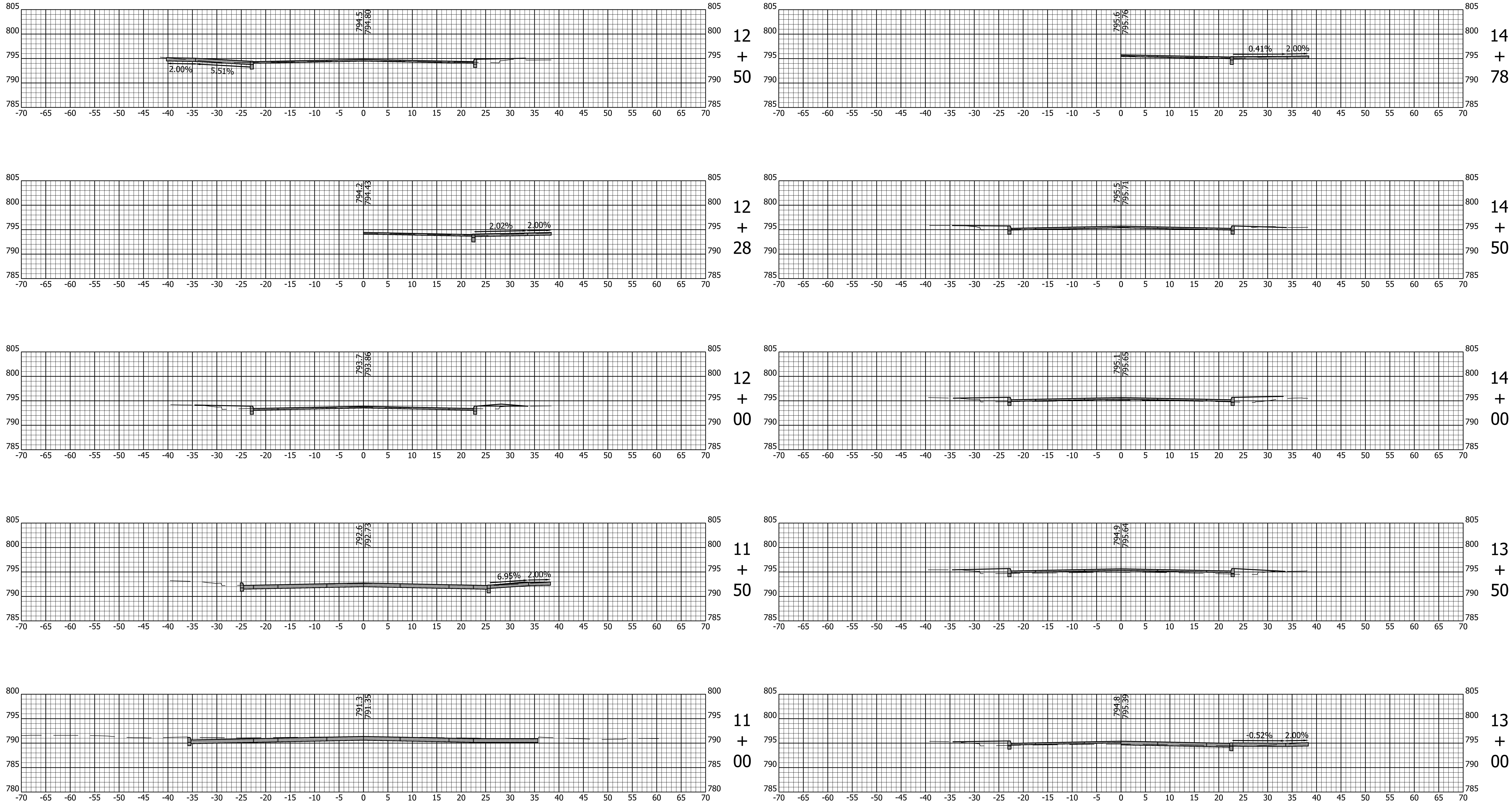
DRAWN BY: LG
DESIGNED BY: MH
CHECKED BY: HF
DATE: 11/30/15
JOB NO:
SCALE: H=1:20

CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

UNDERDRAIN TABLE

DRAWING NO.
UT1



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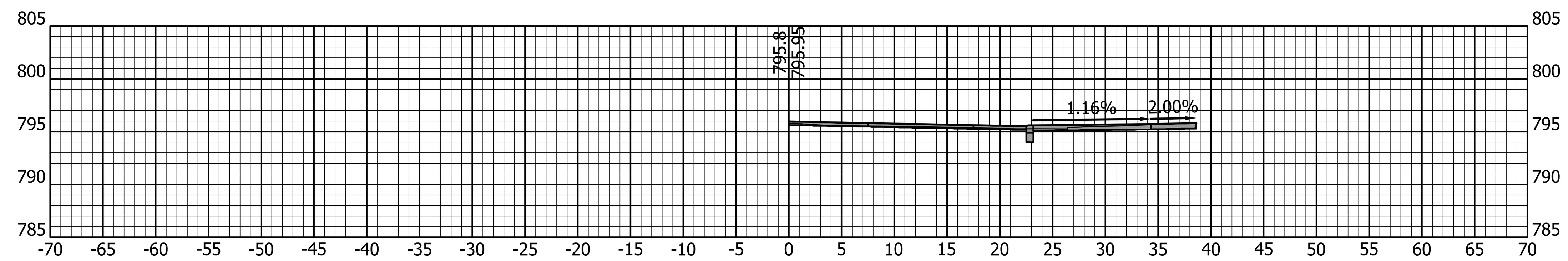
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS1



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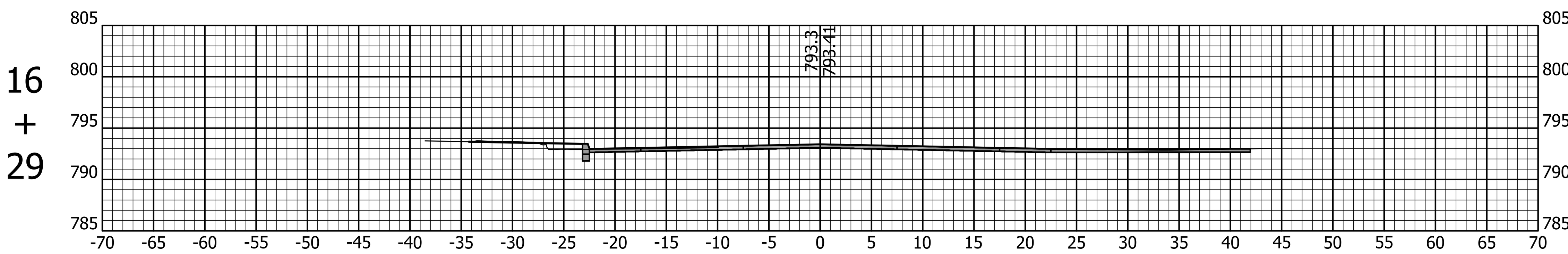

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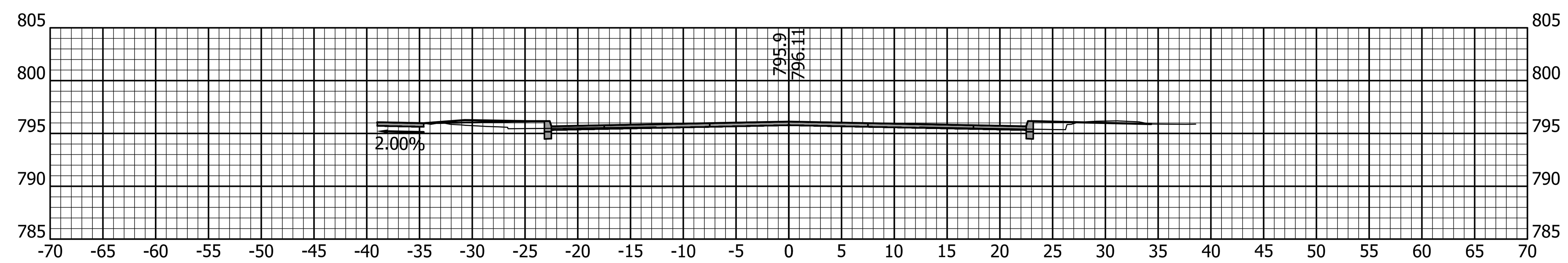

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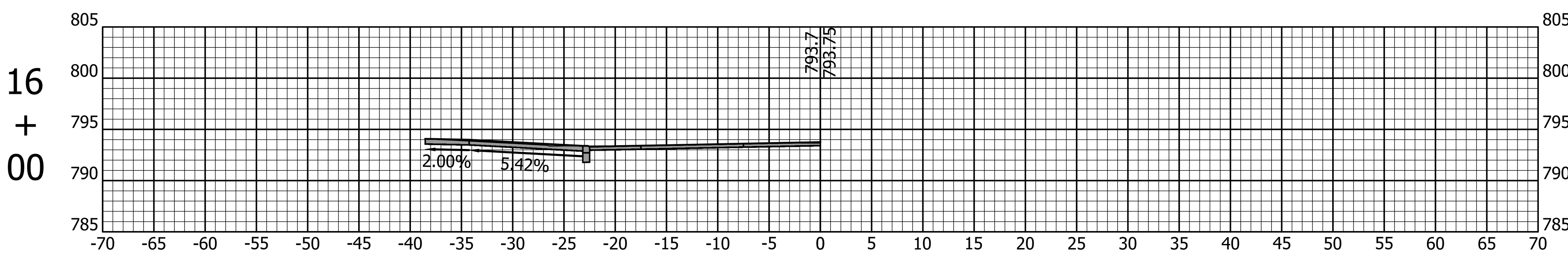

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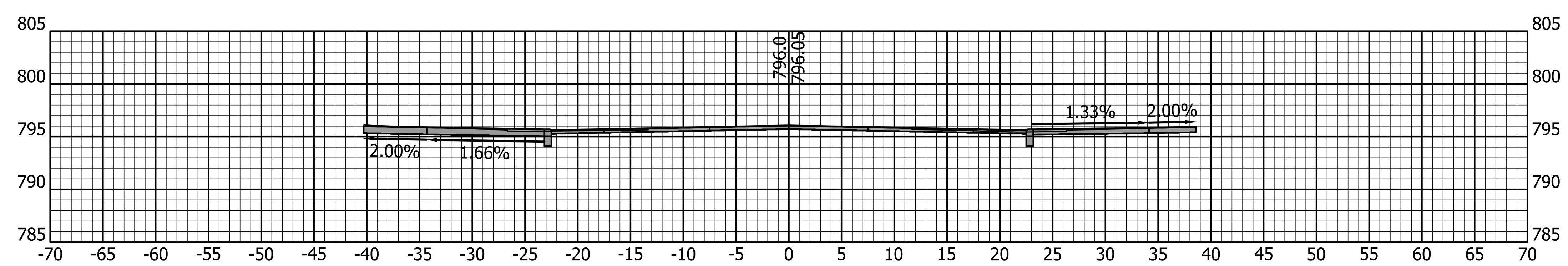

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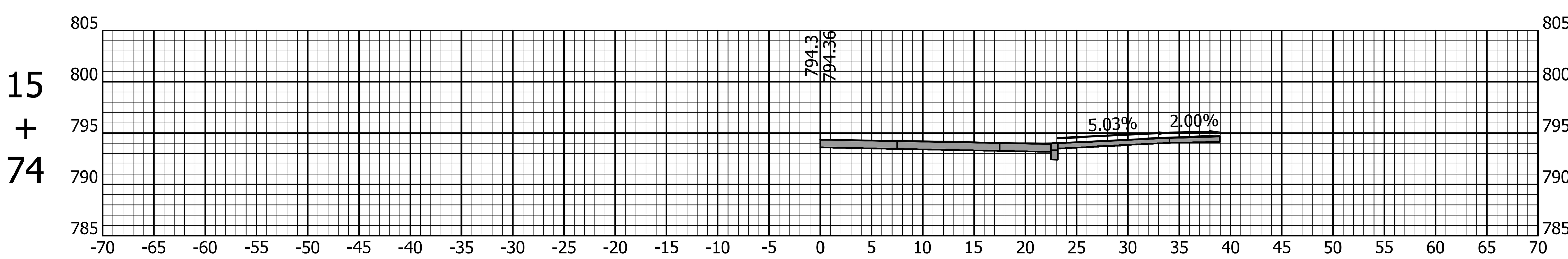

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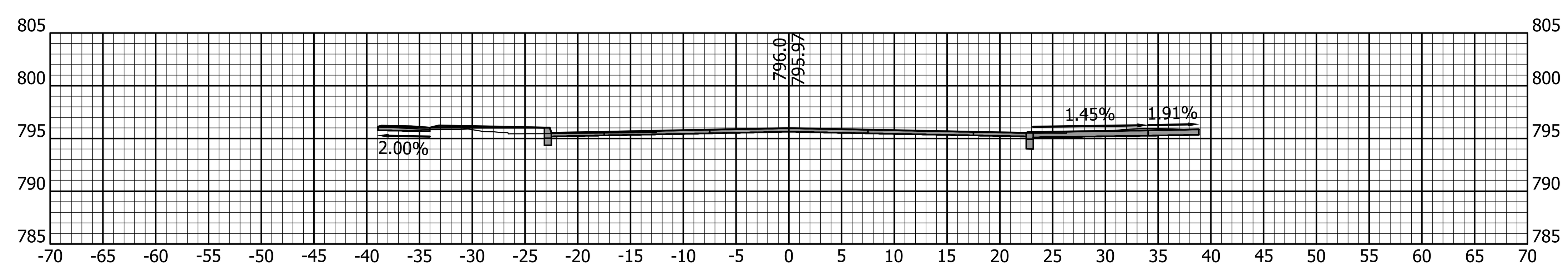

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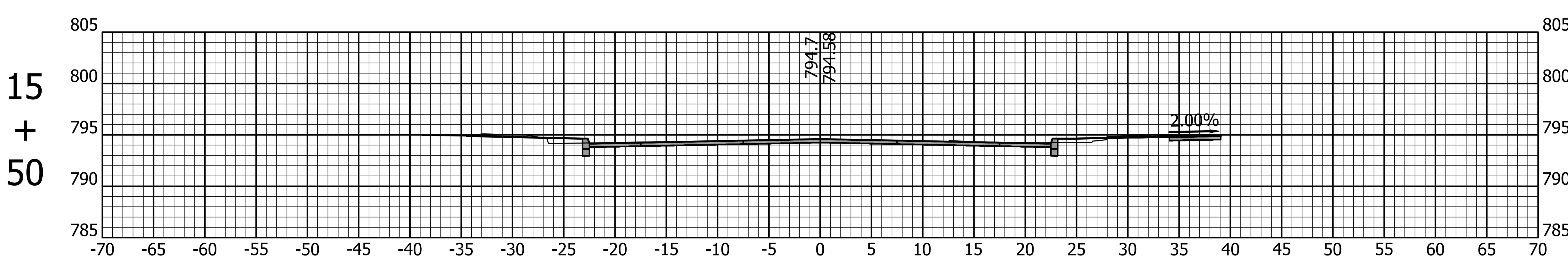

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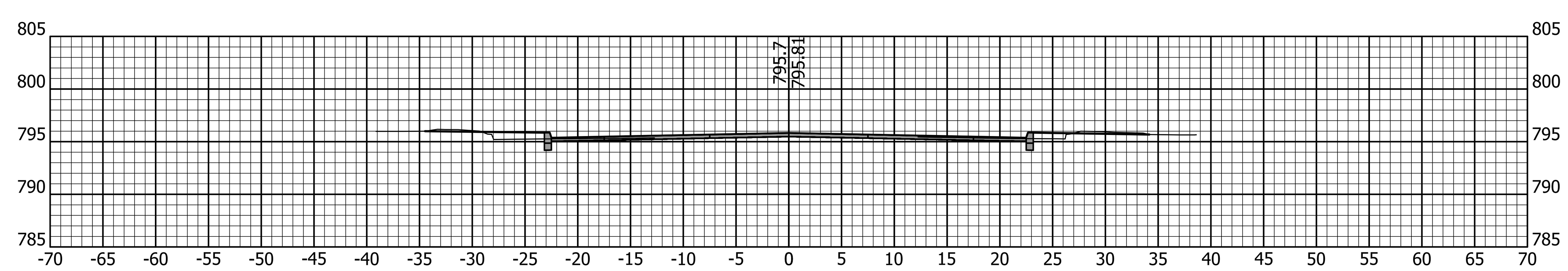

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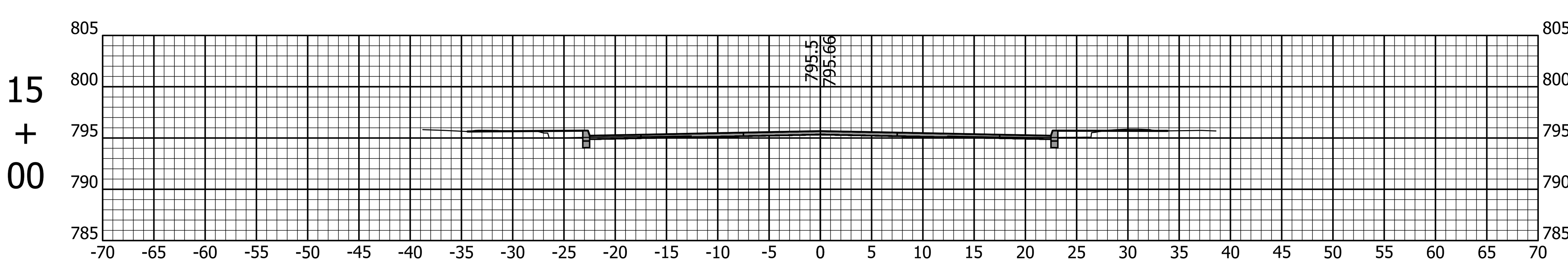

16 + 50

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CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

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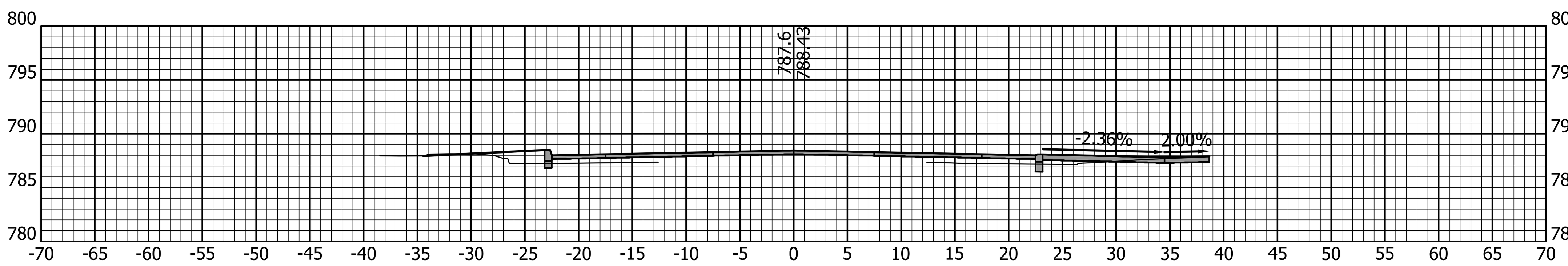

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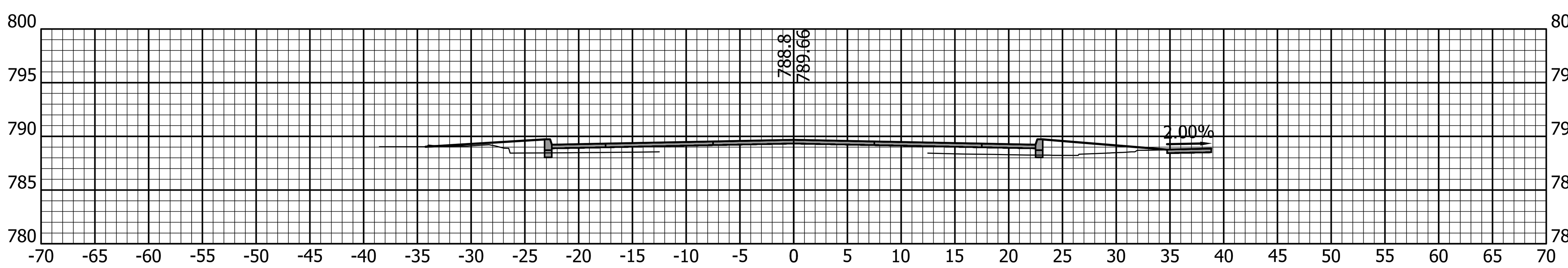

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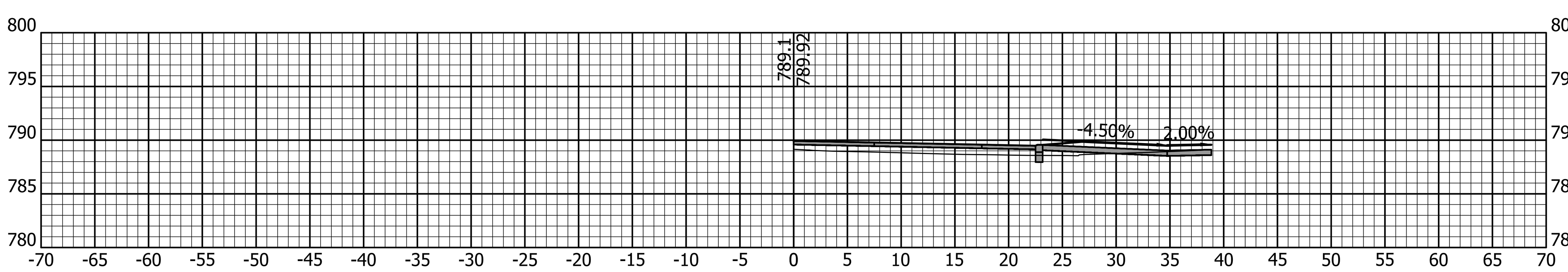

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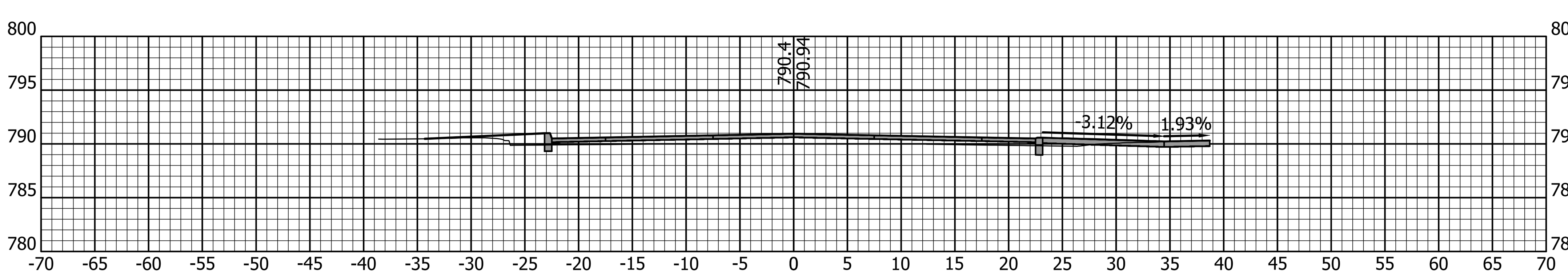

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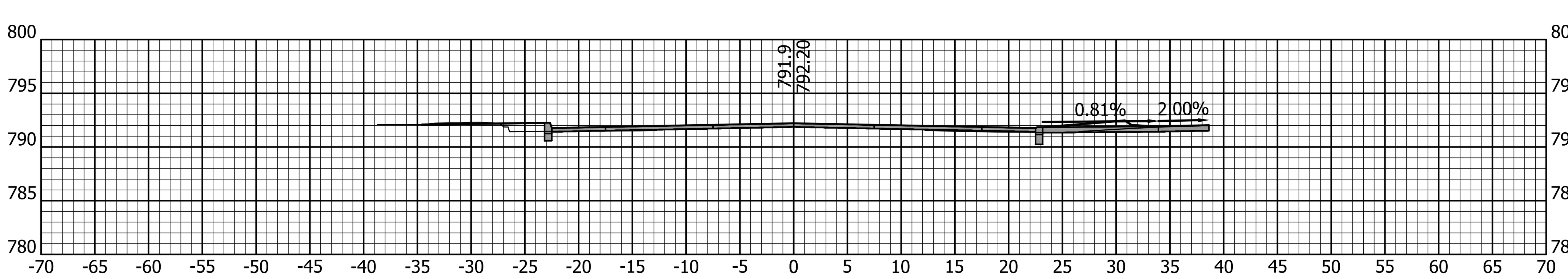

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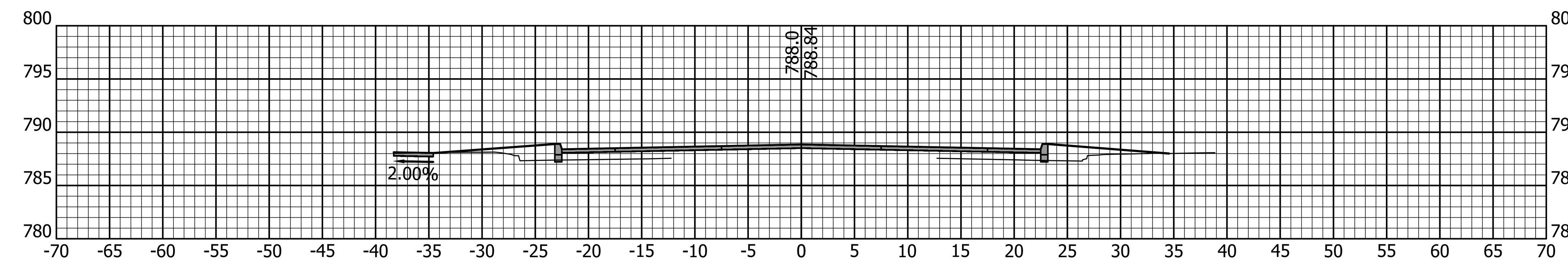

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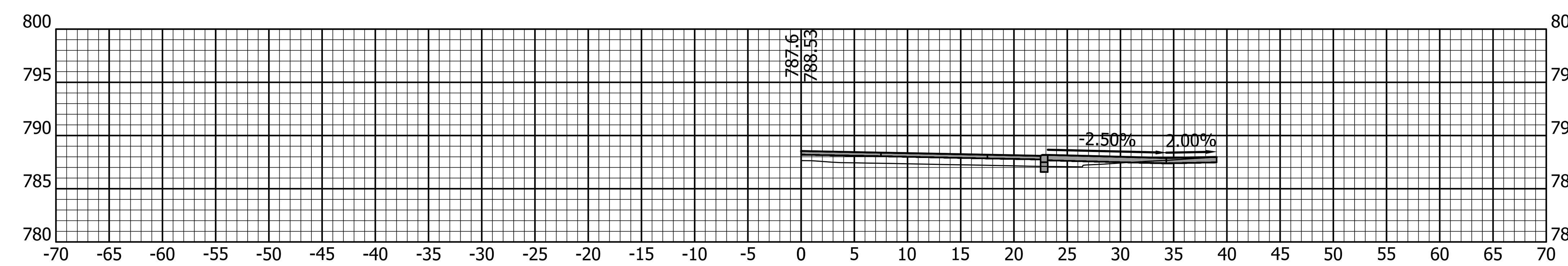

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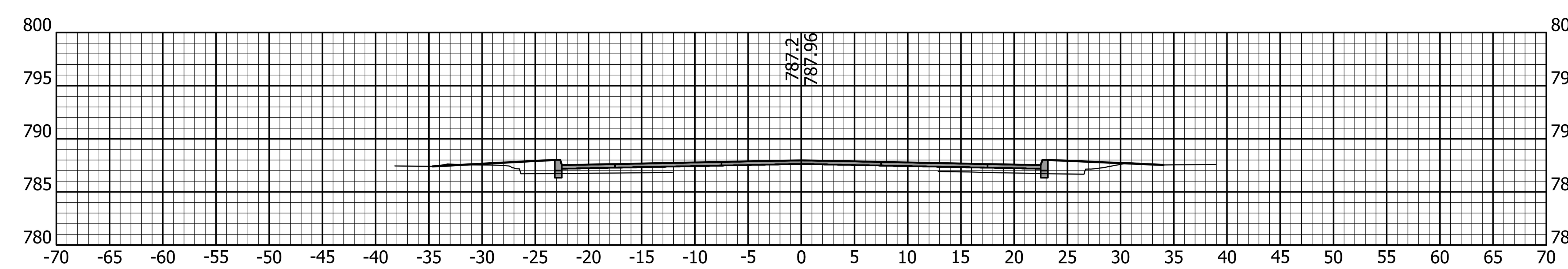

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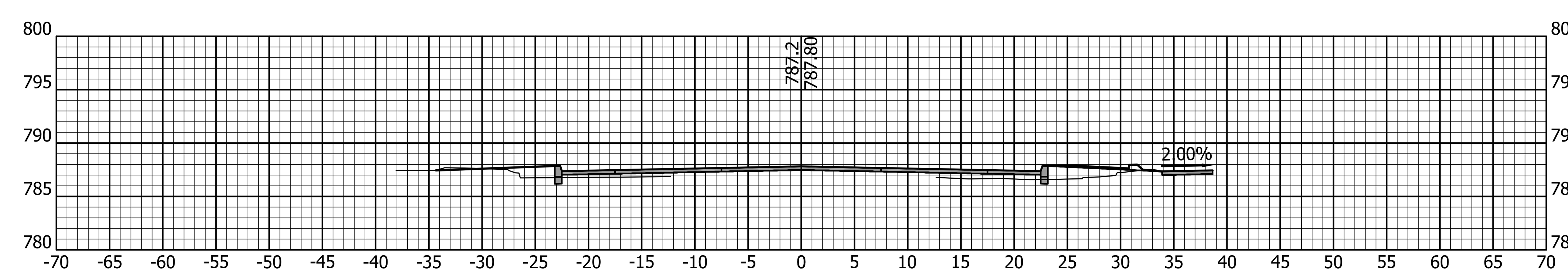

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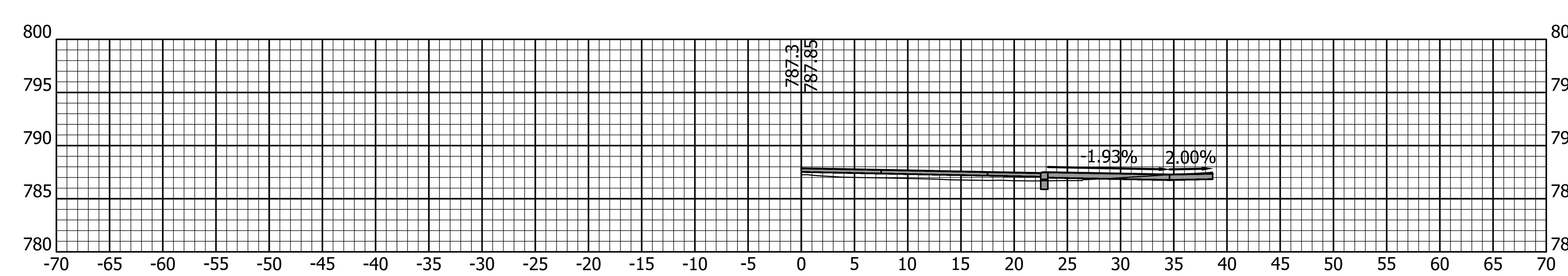

19 + 92

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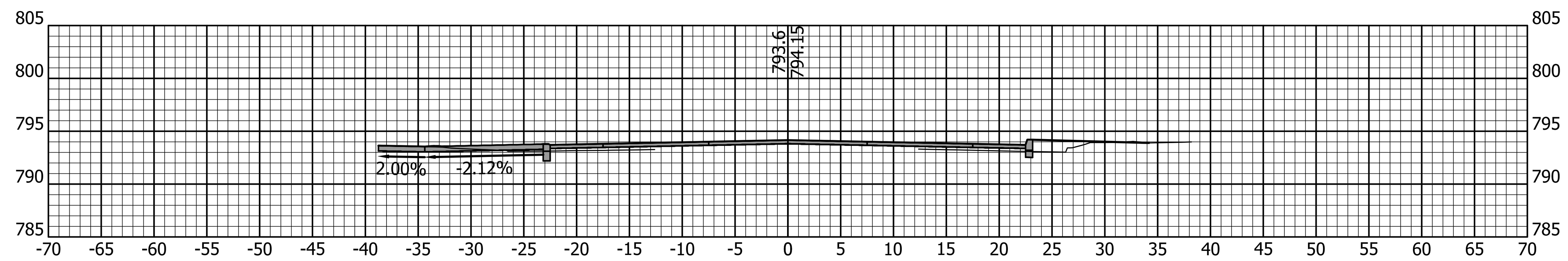
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS3



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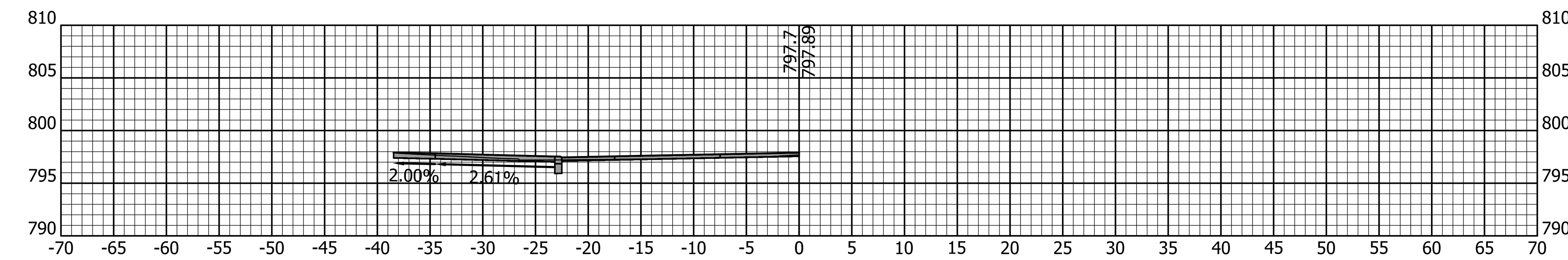

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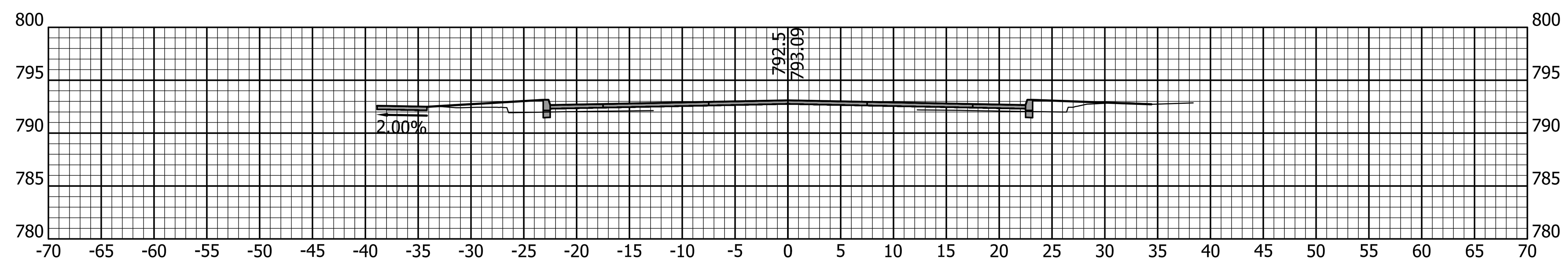

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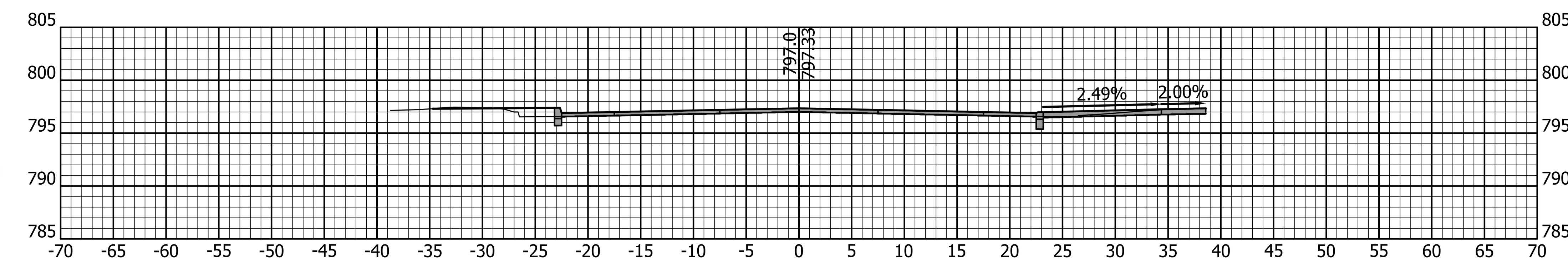

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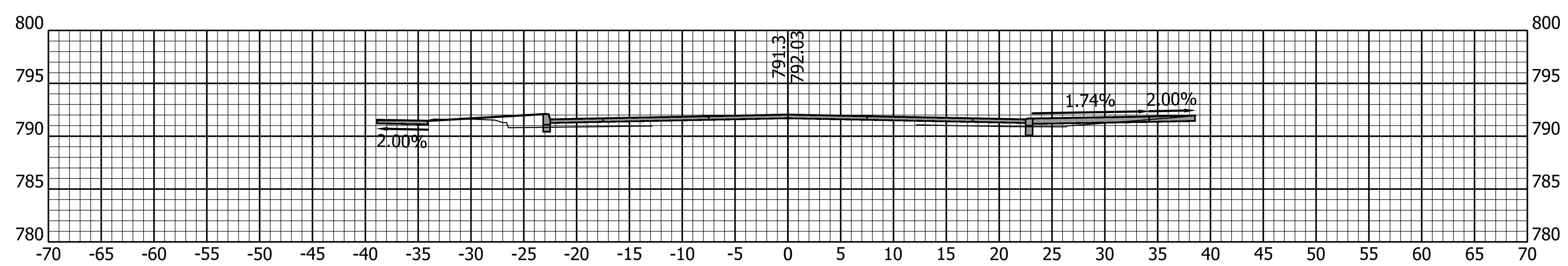

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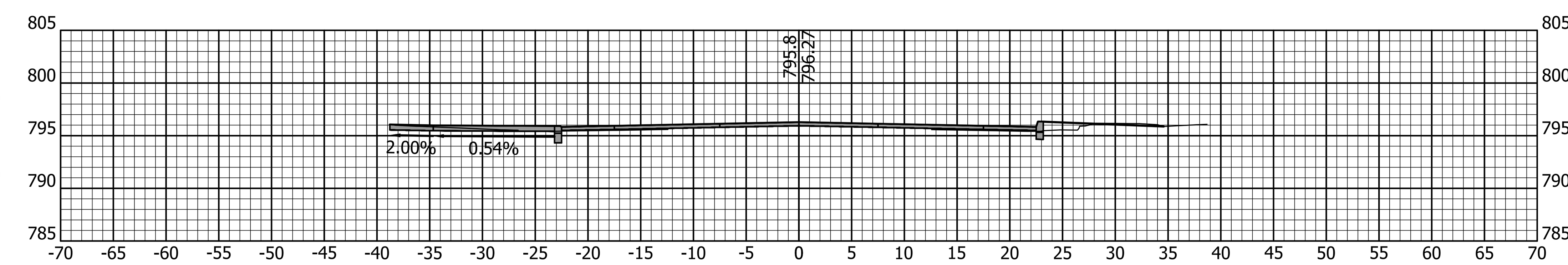

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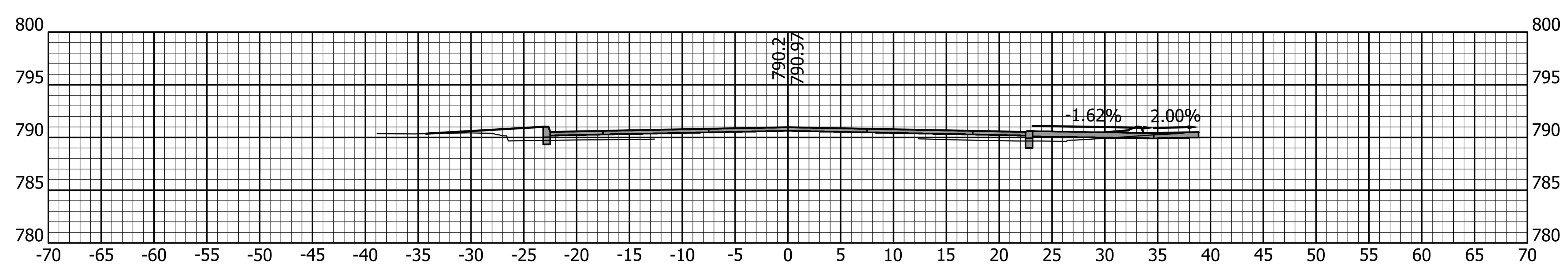

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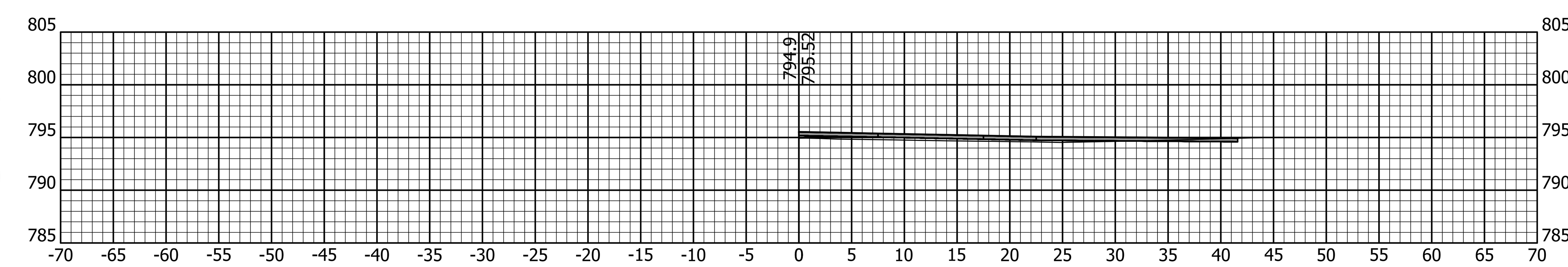

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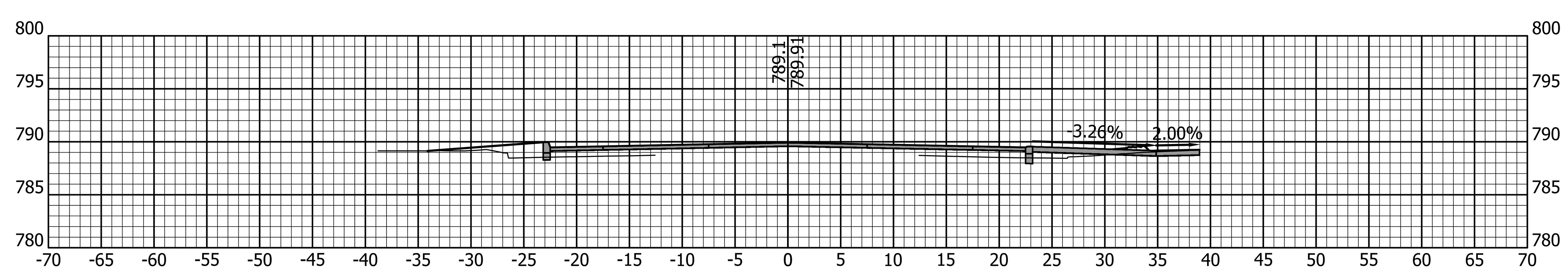

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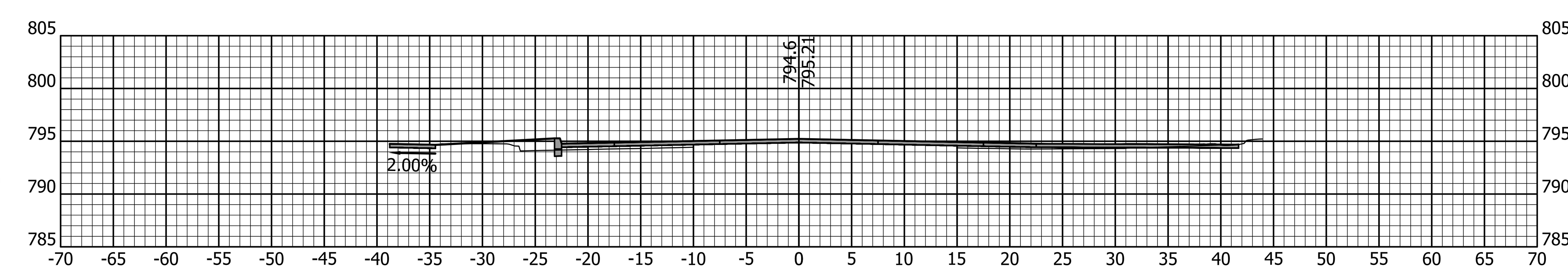

24 + 00

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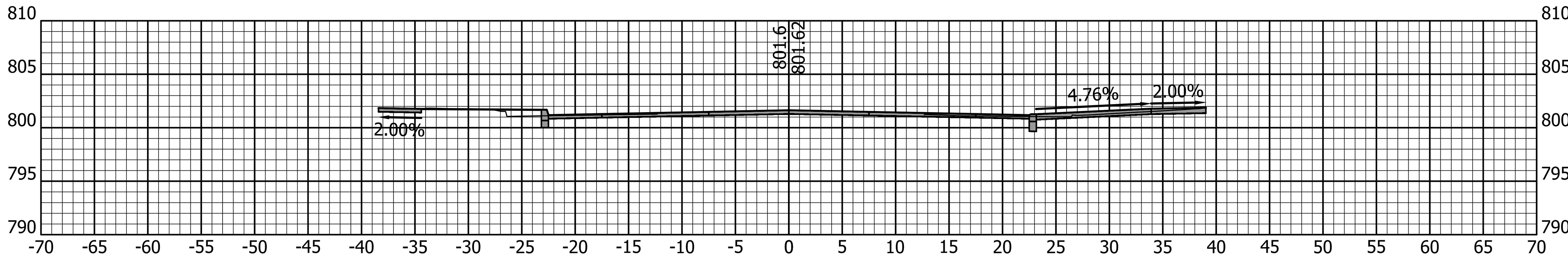
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS4



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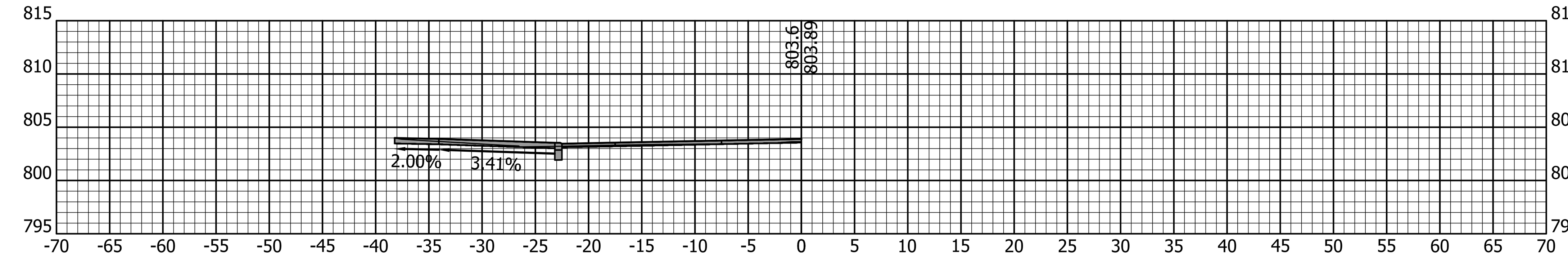

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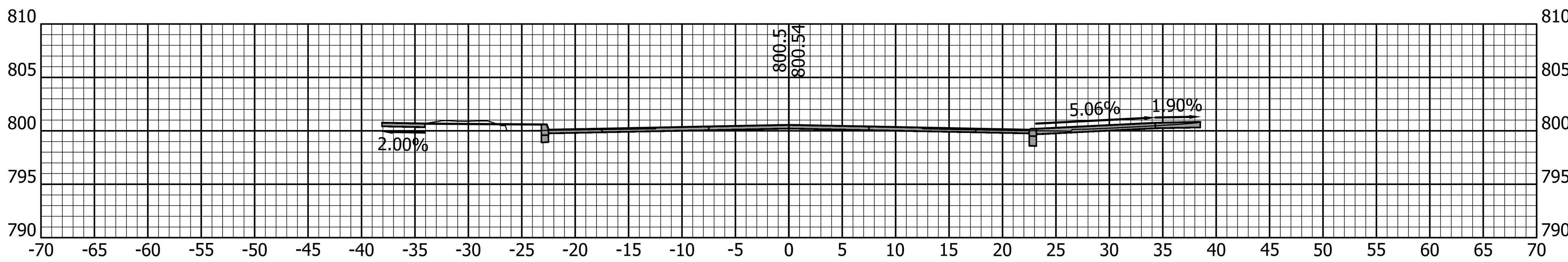

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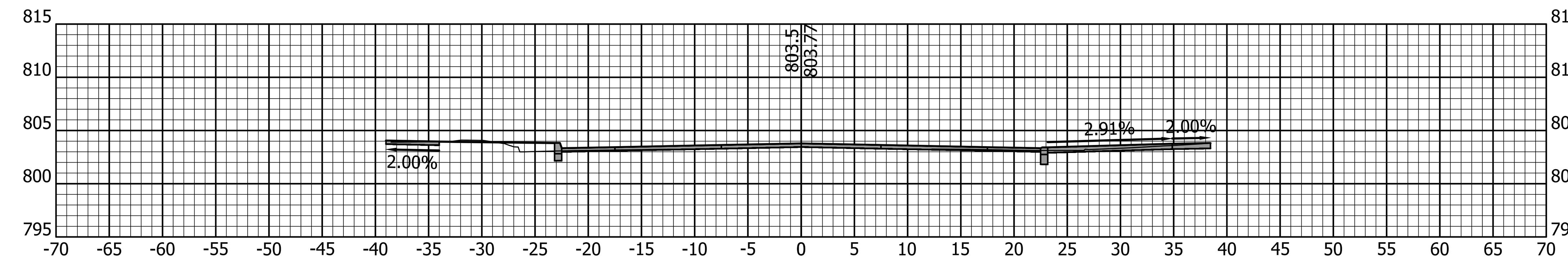

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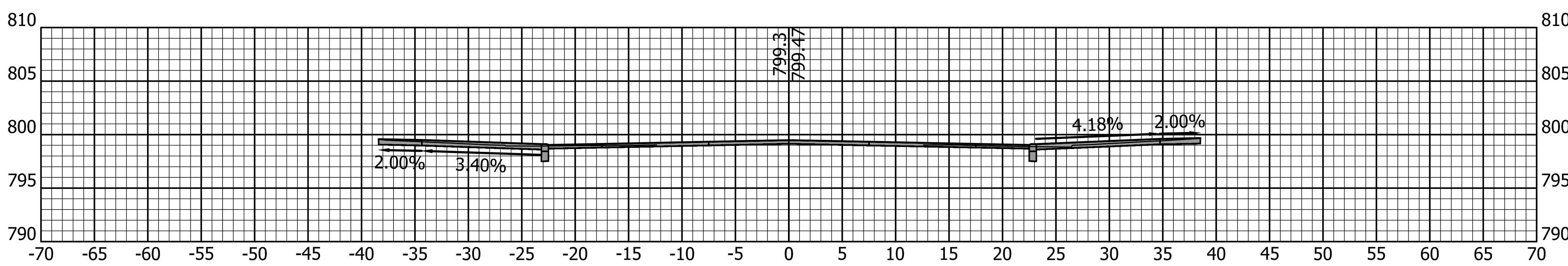

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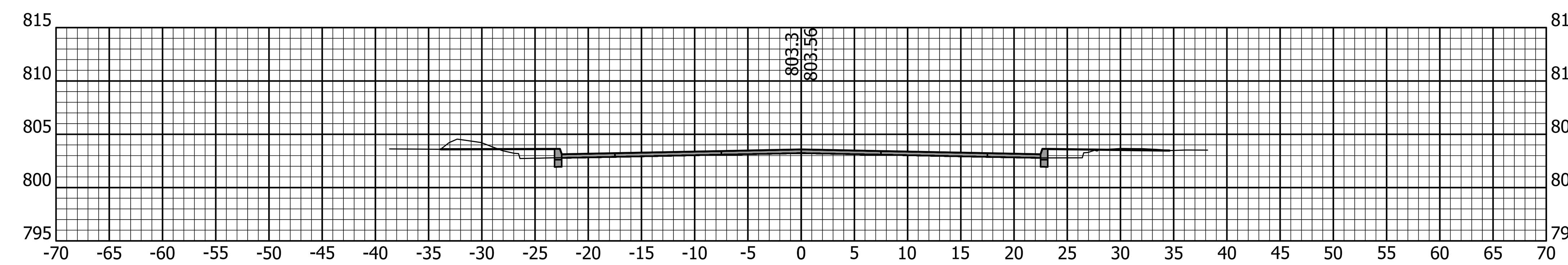

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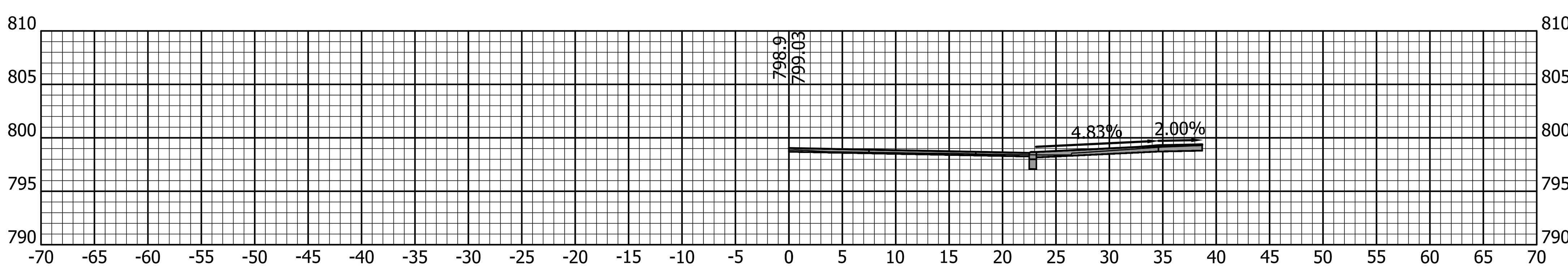

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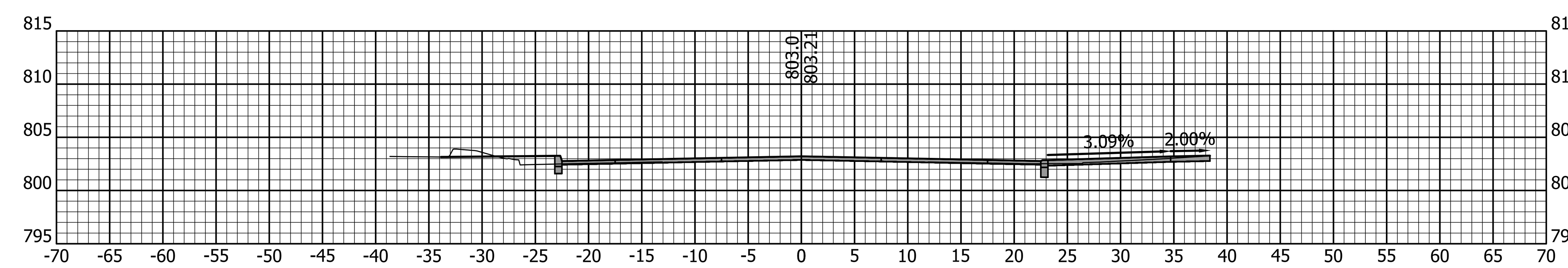

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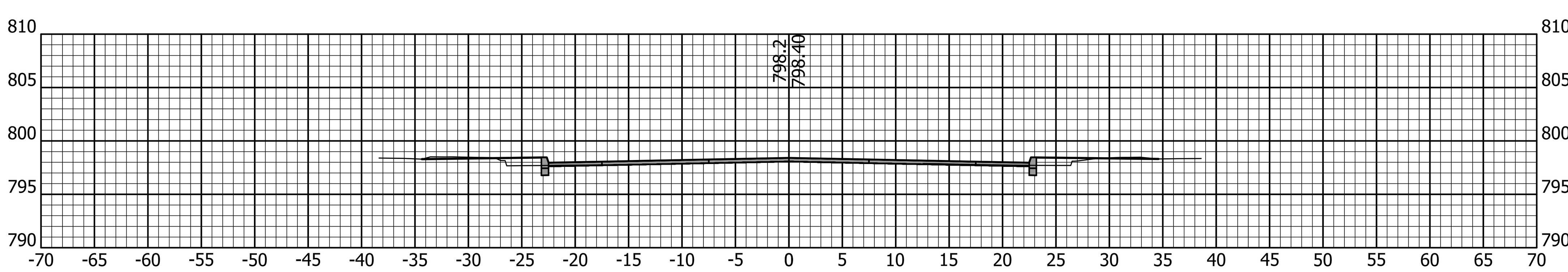

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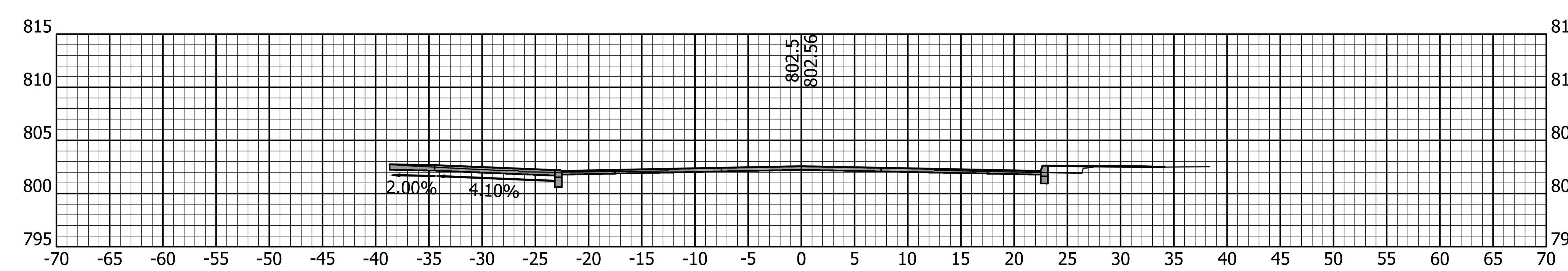

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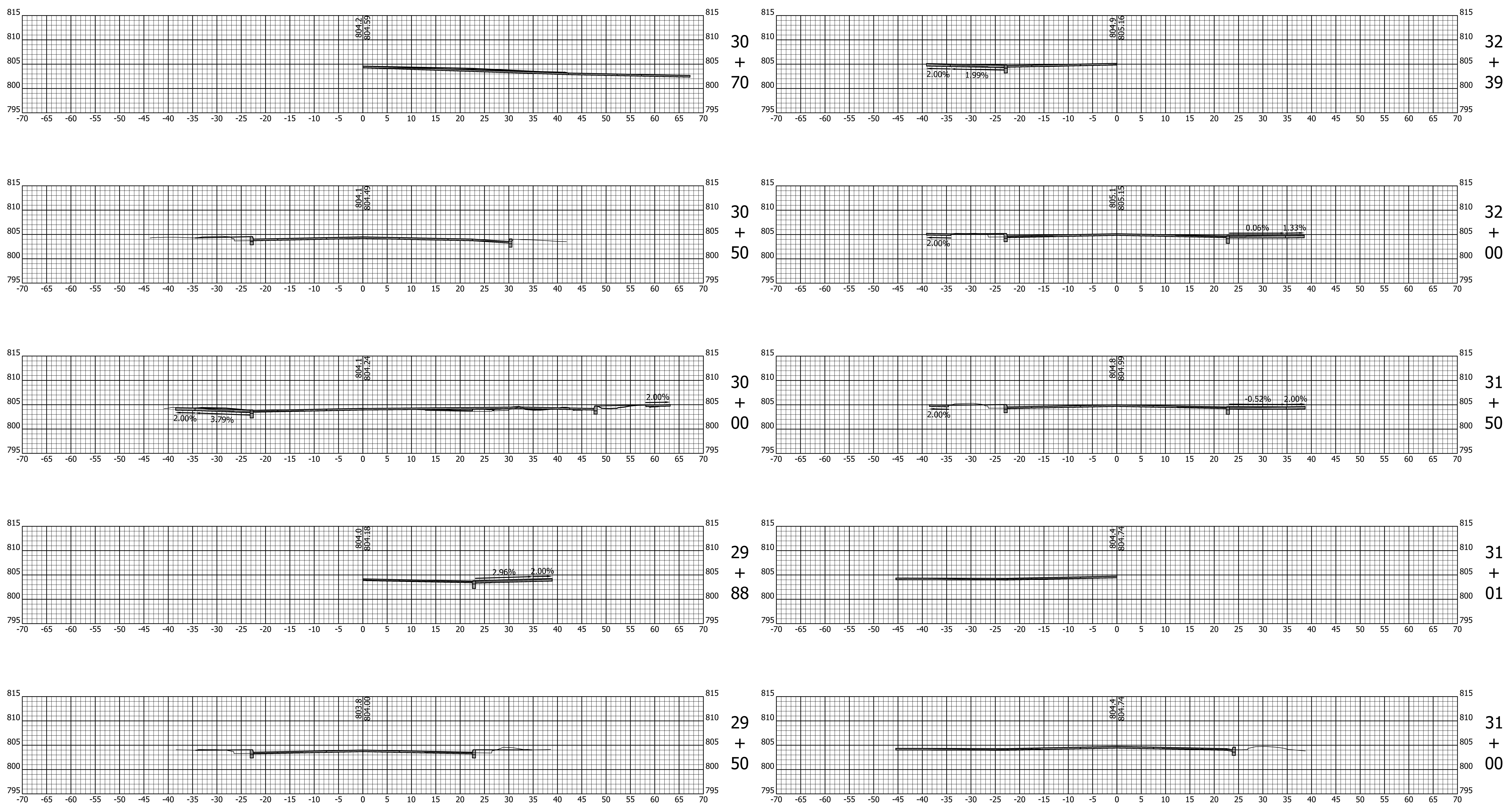
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS5



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CITY OF FORT WAYNE
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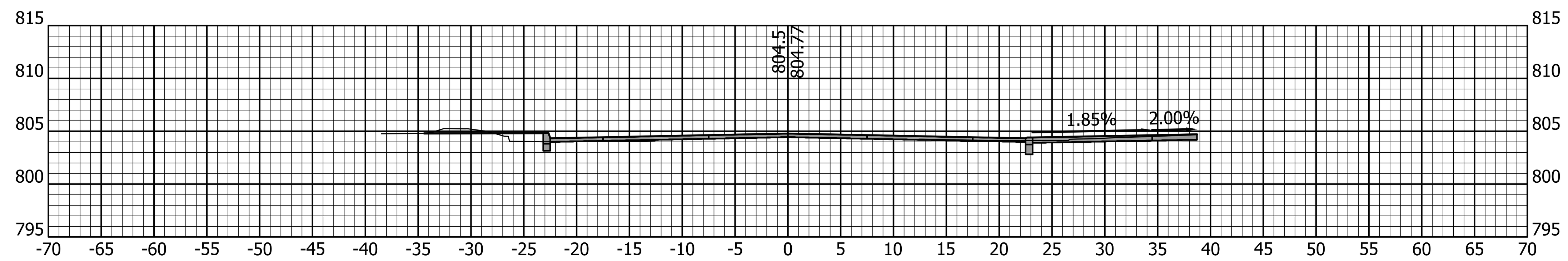
HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS6



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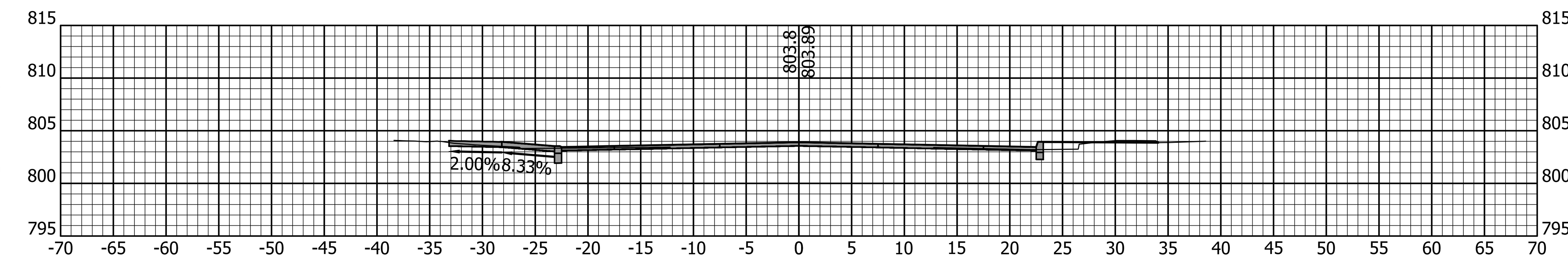

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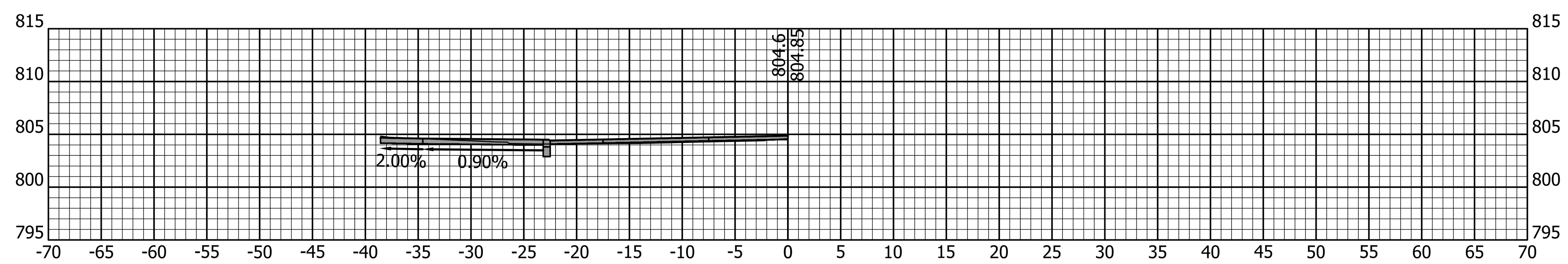

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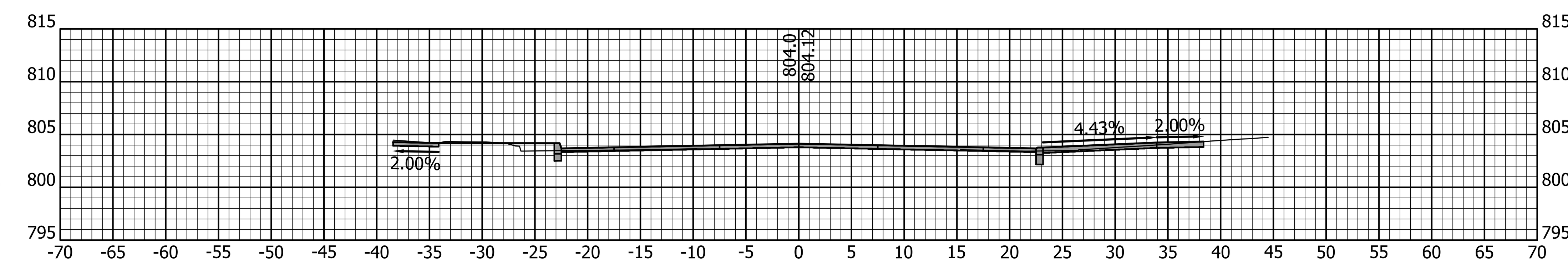

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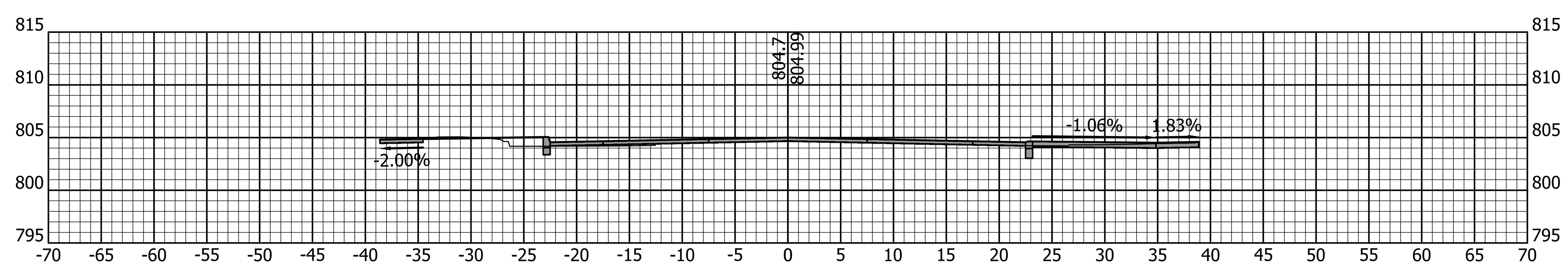

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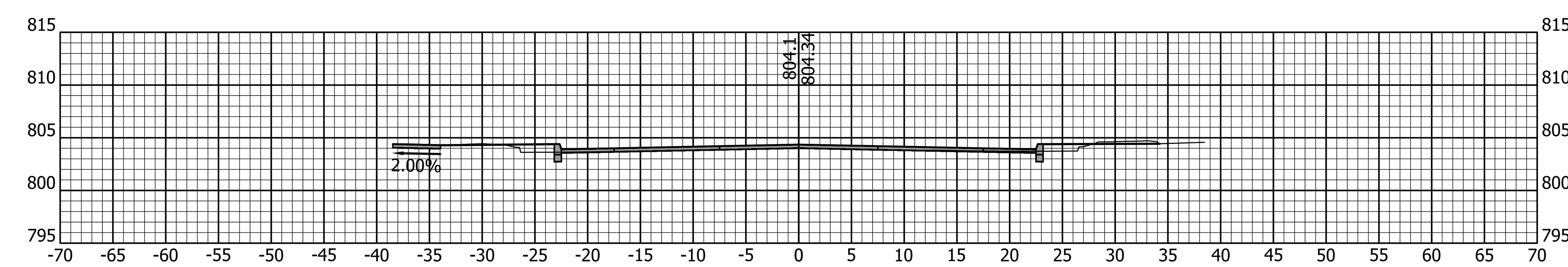

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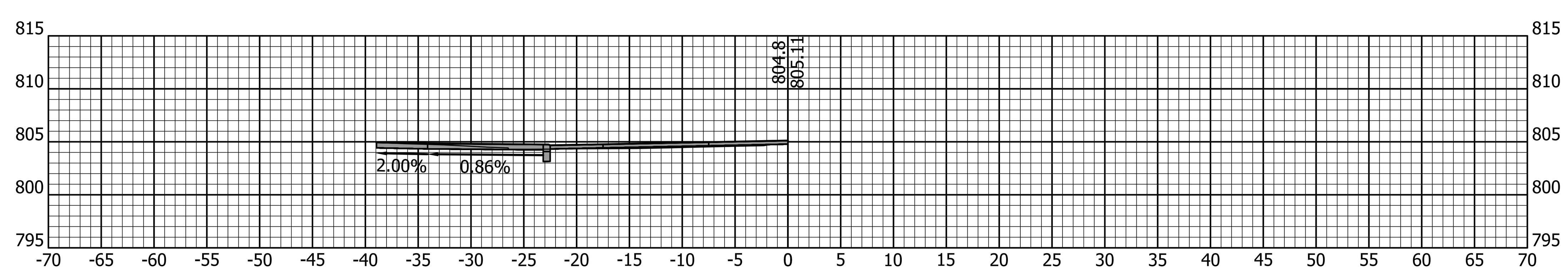

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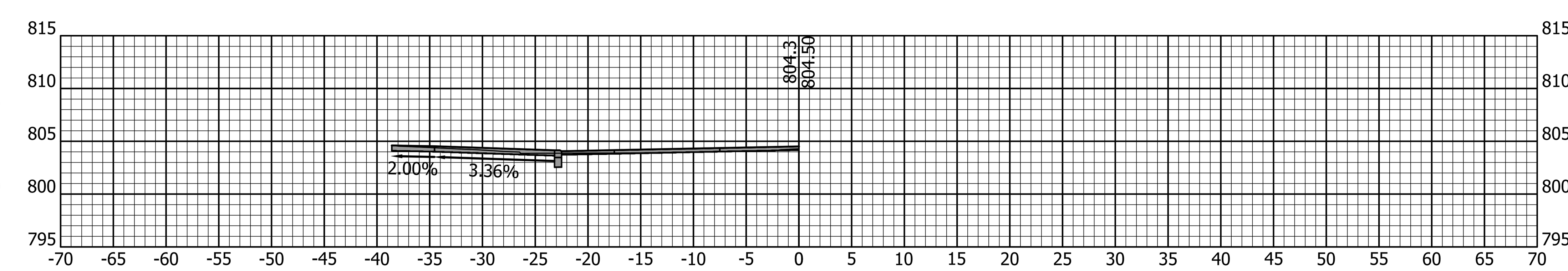

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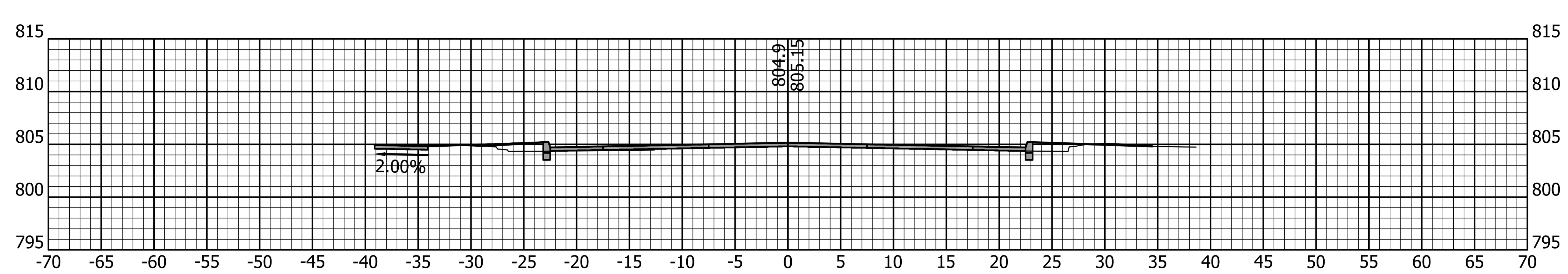

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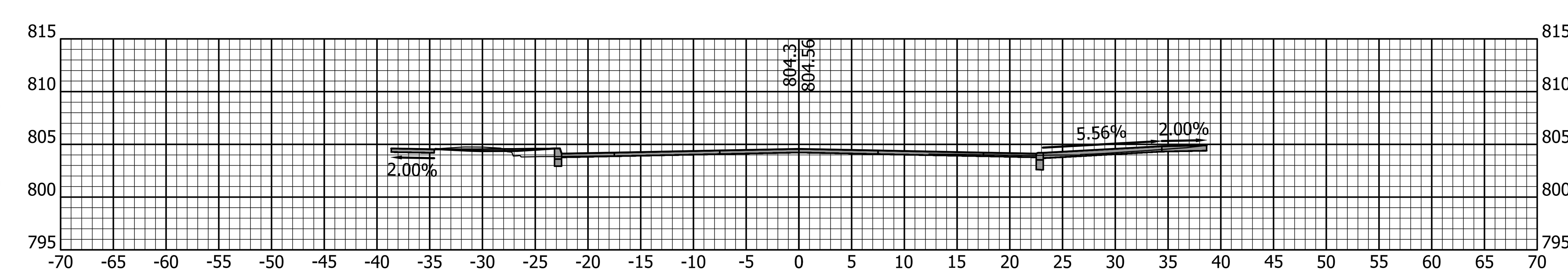

34 + 00

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NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

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Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
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10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
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DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	H=1:20

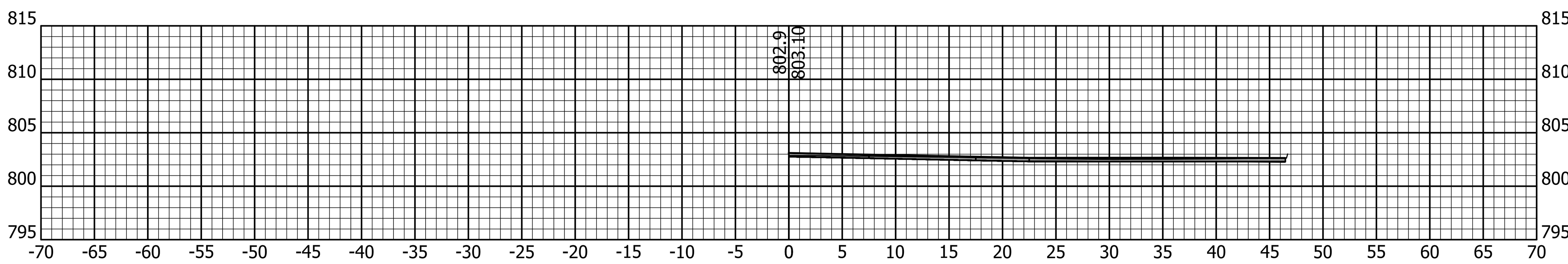
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS7



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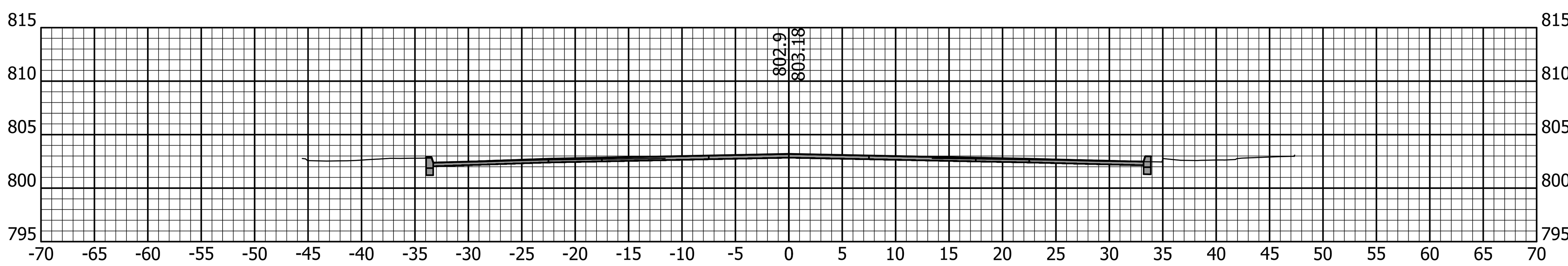

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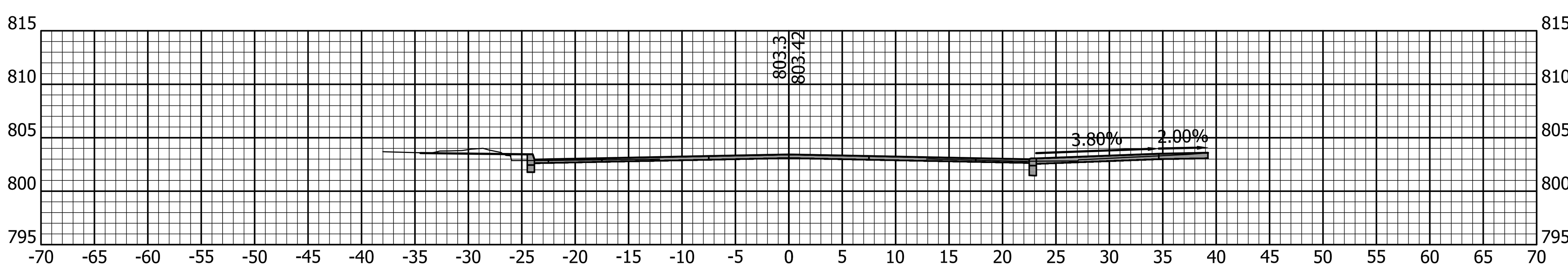

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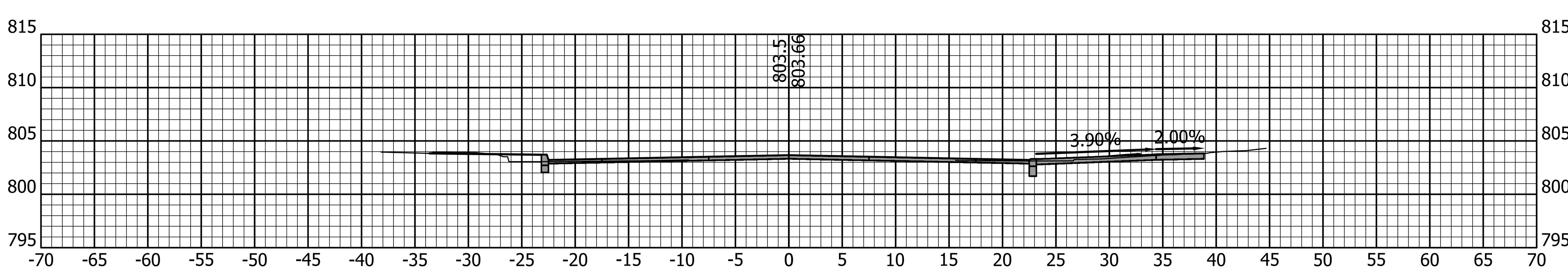

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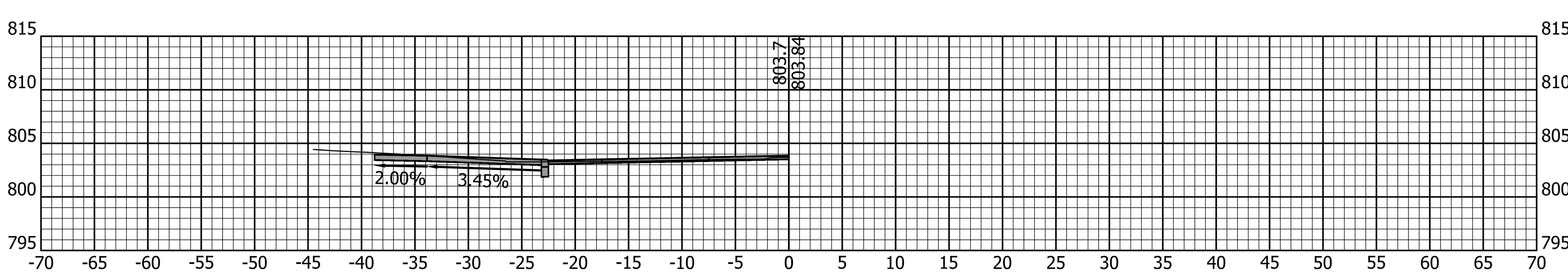

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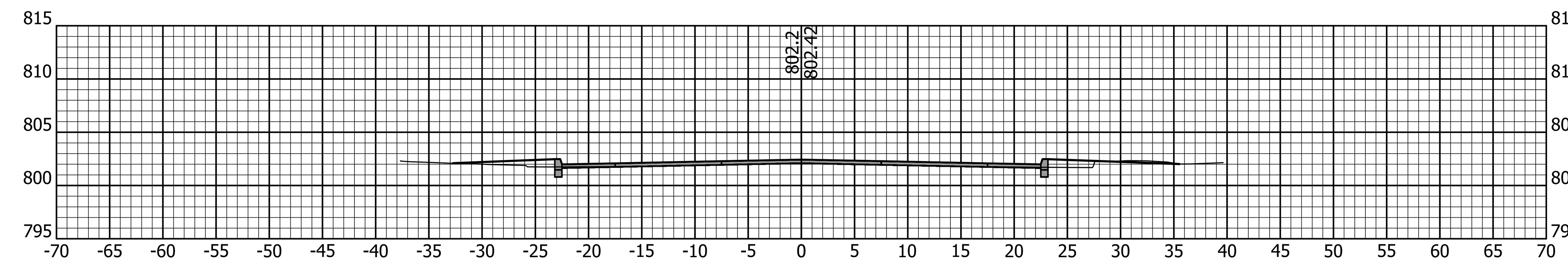

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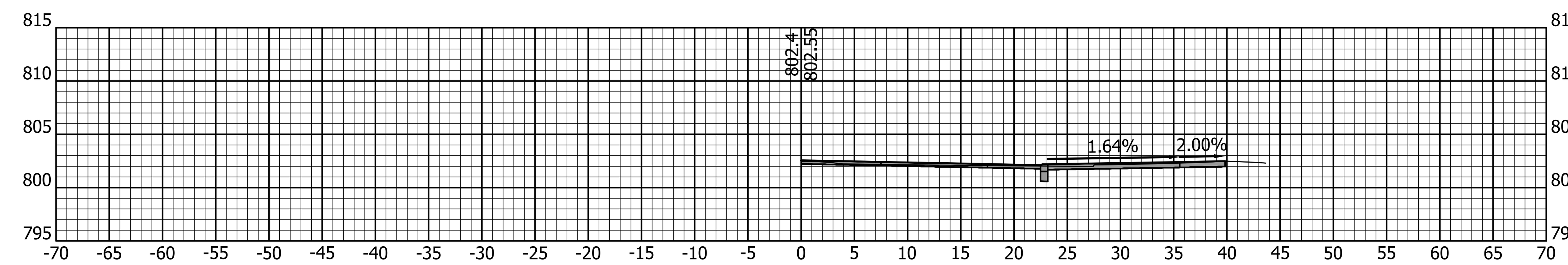

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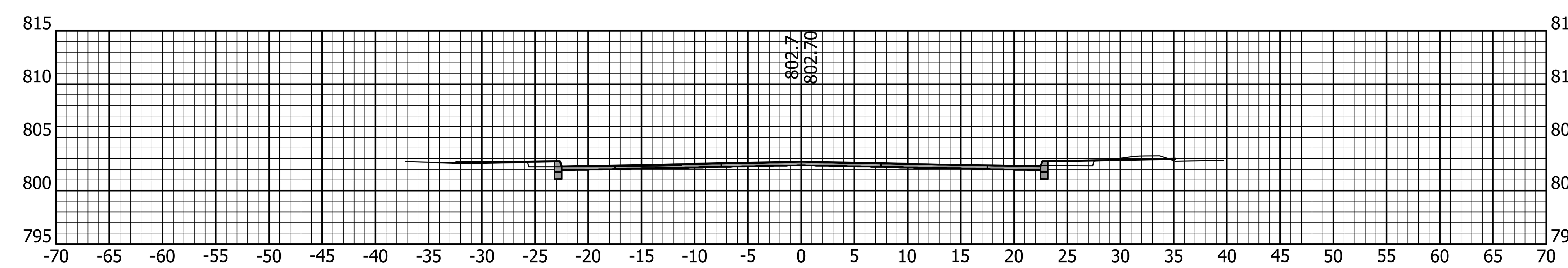

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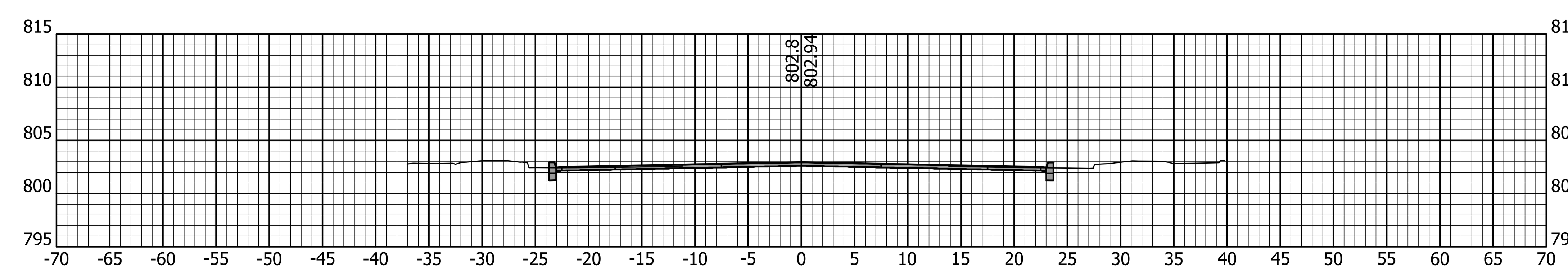

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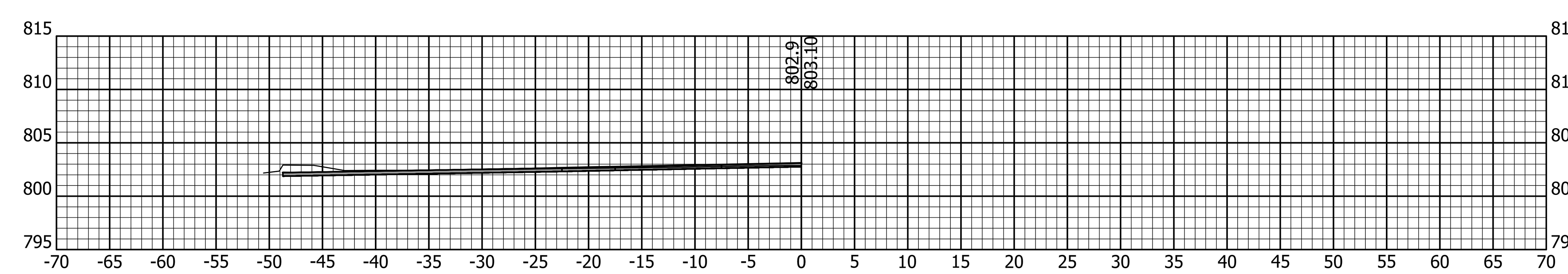

37 + 17

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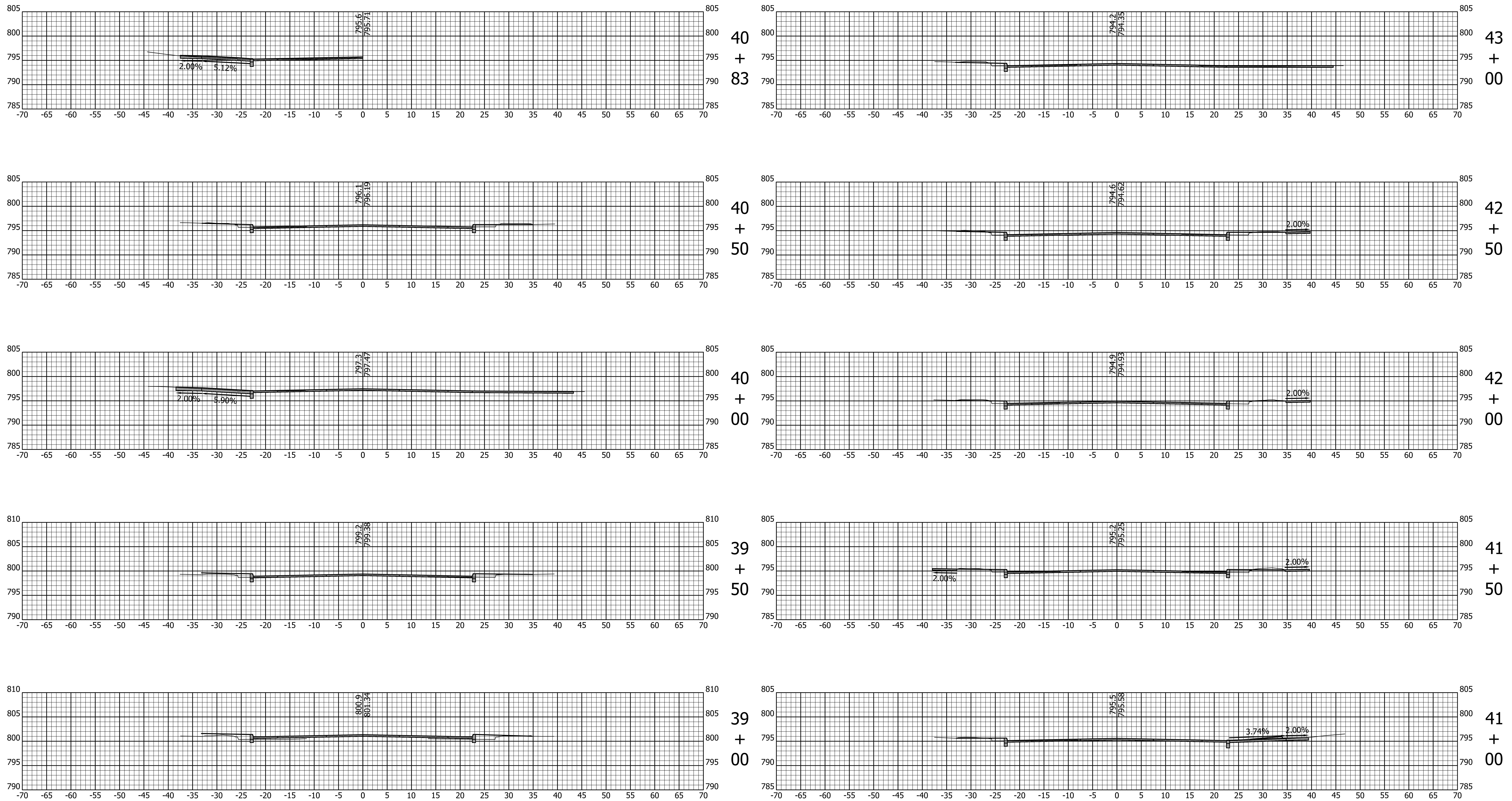
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.
XS8



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CITY OF FORT WAYNE
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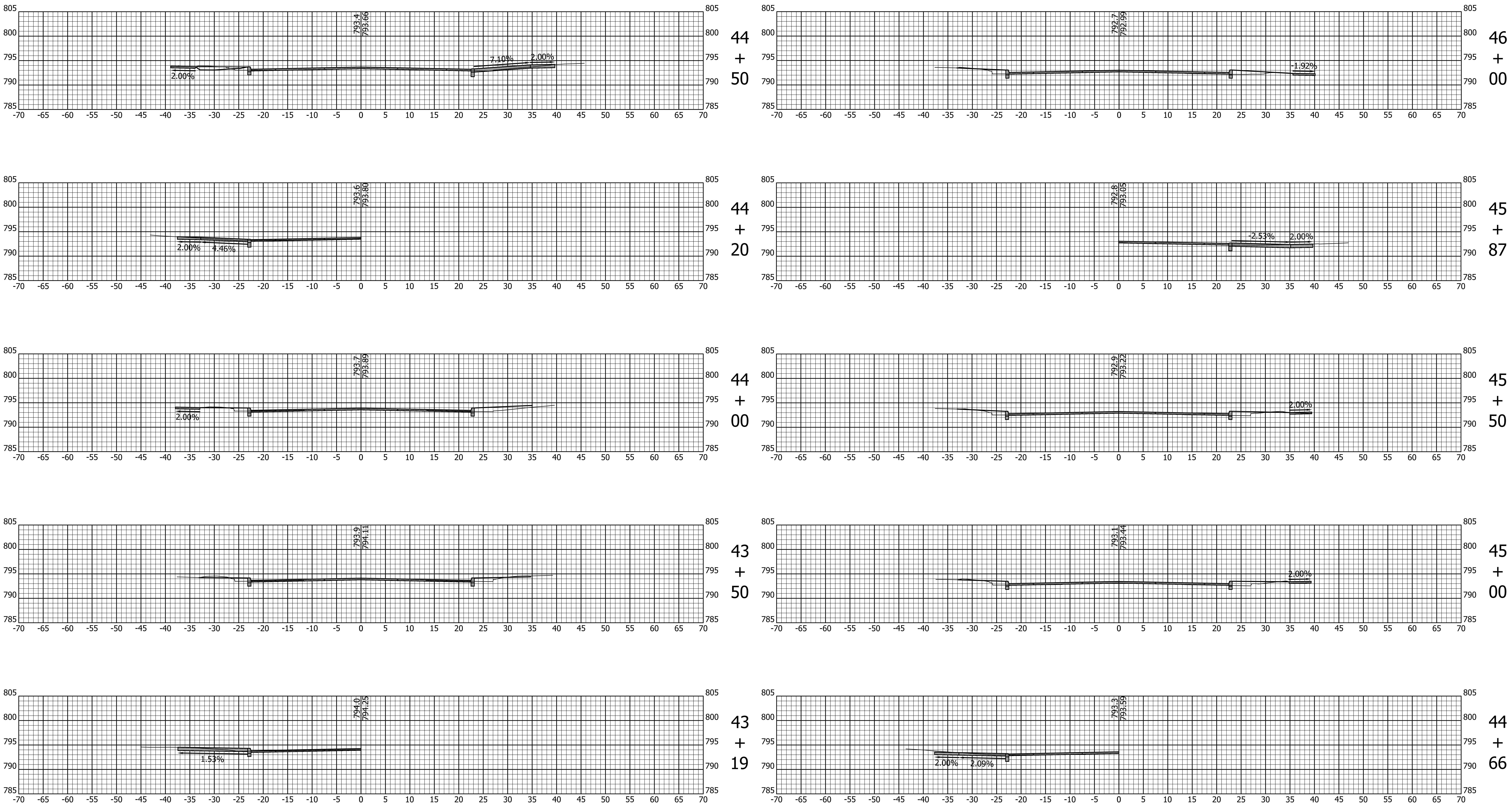
HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS9



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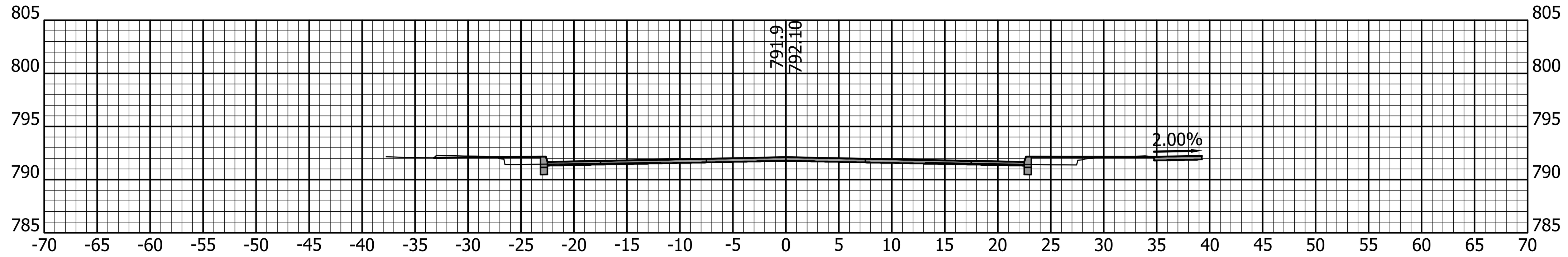
HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS10



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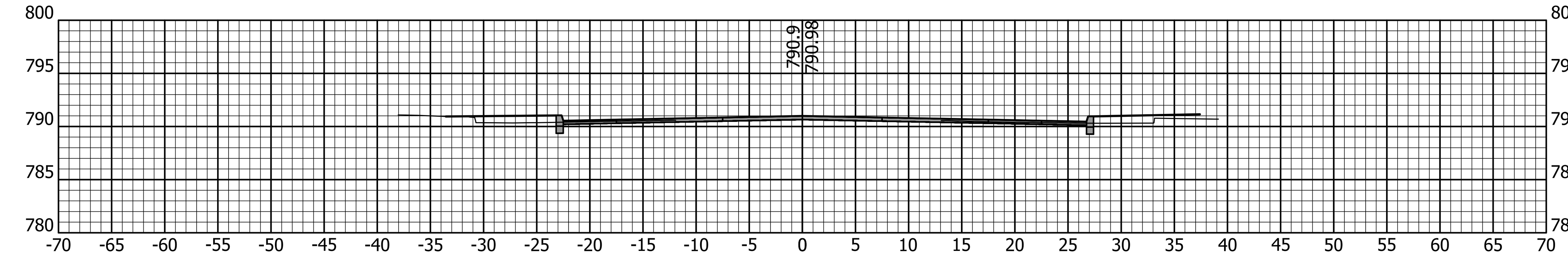

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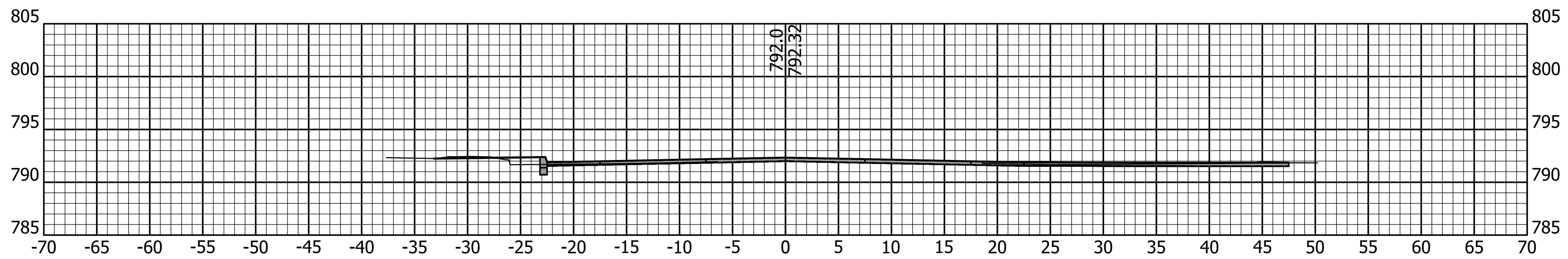

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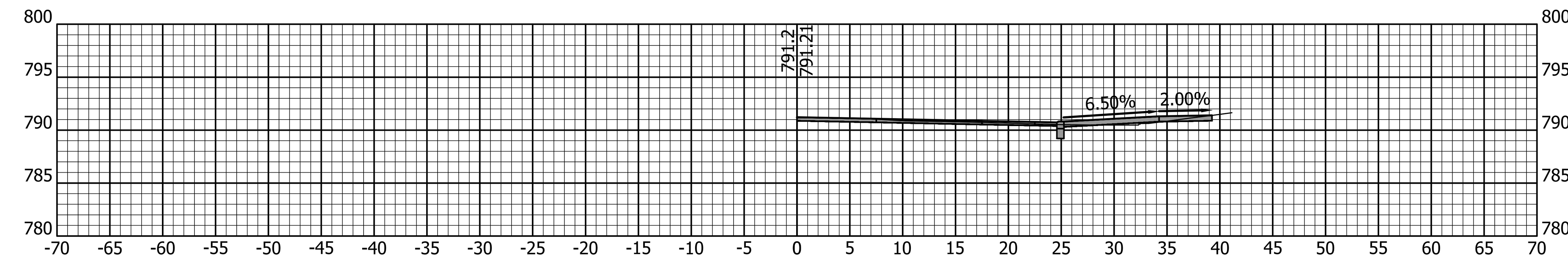

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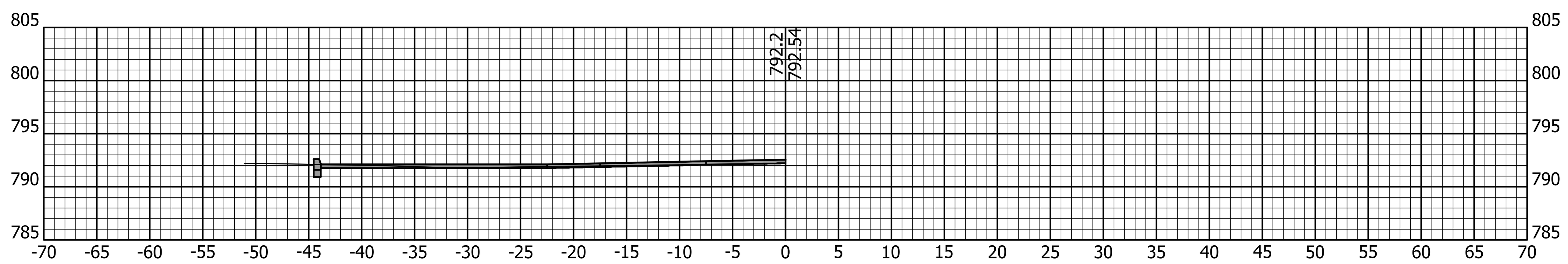

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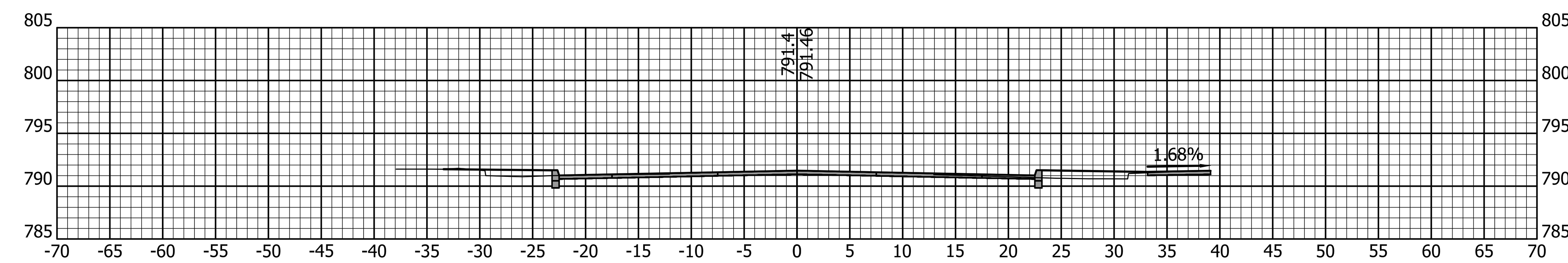

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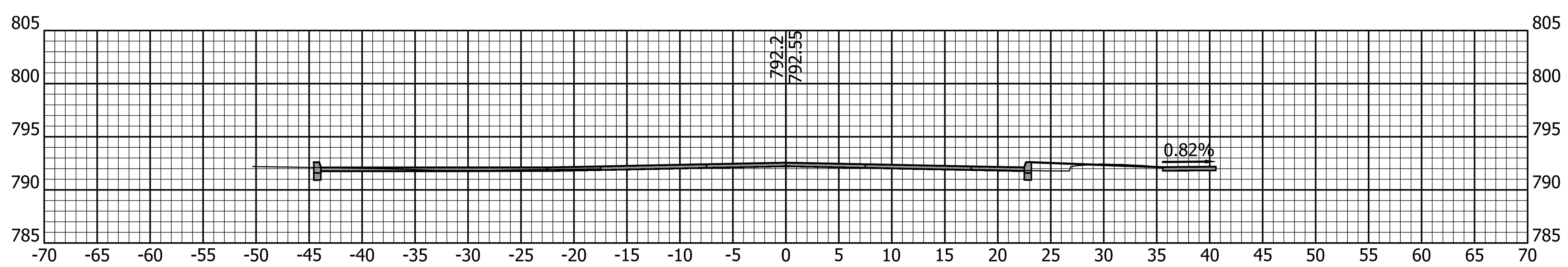

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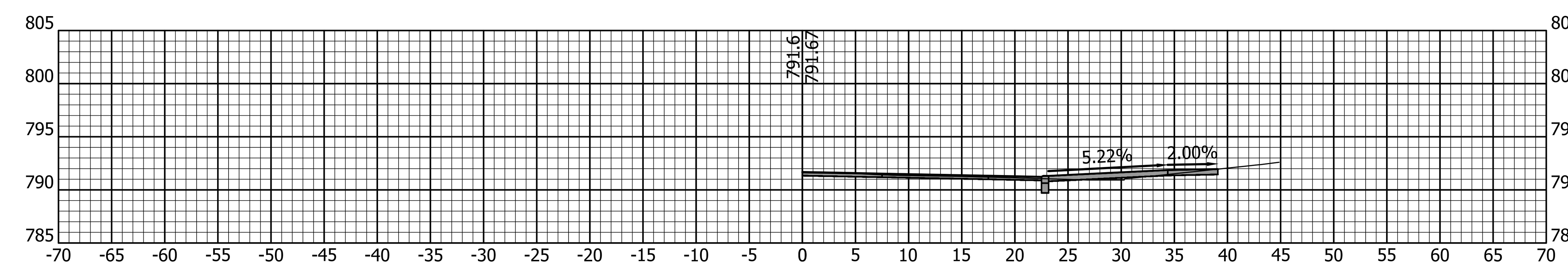

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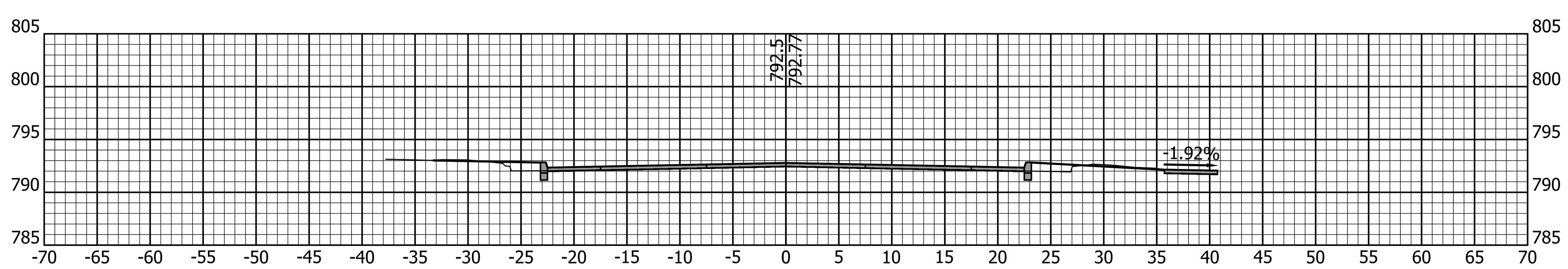

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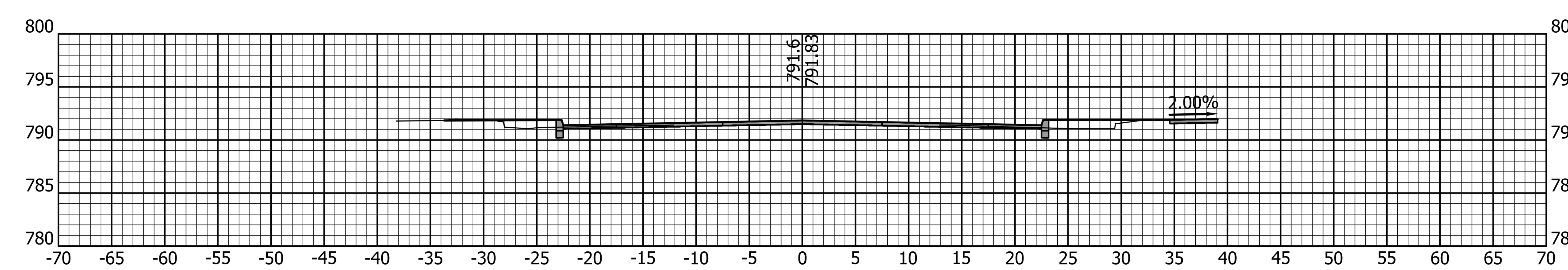

48 + 50

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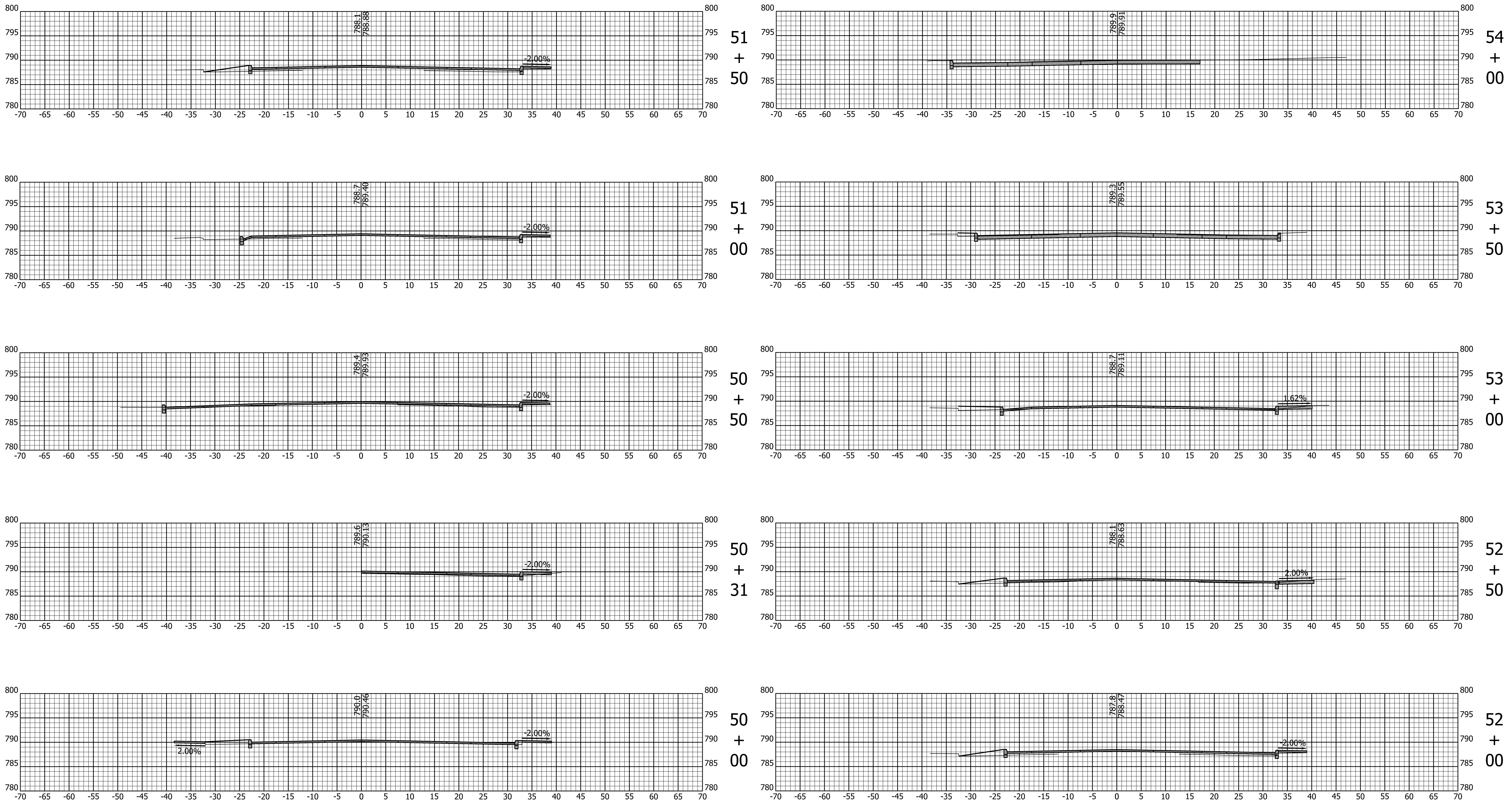
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS11



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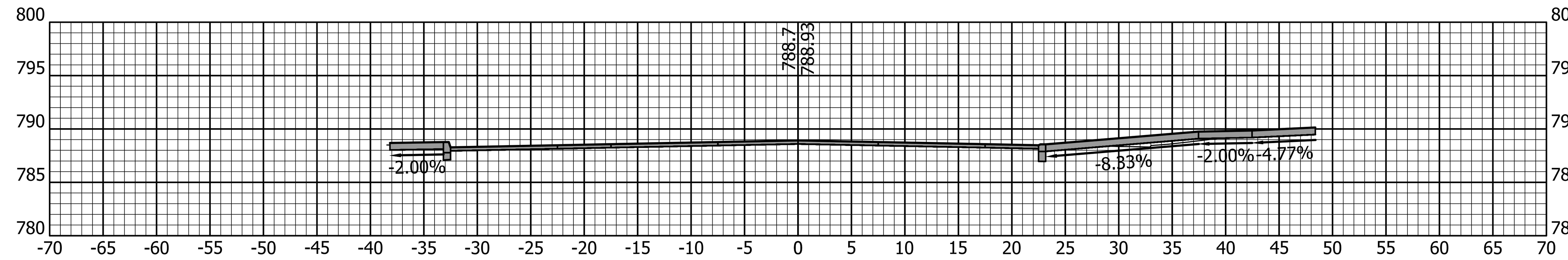
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS12



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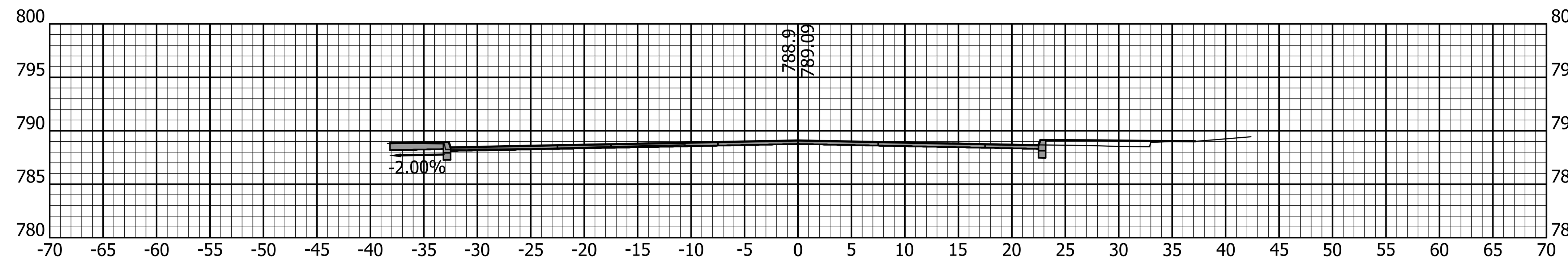

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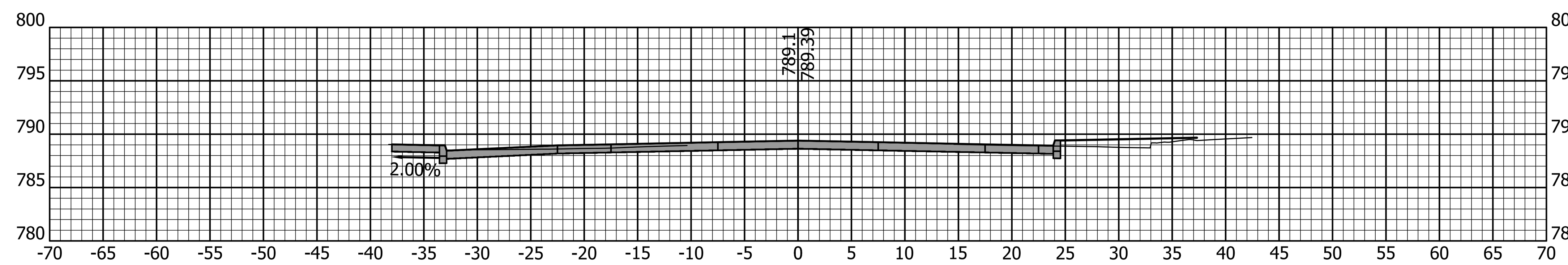

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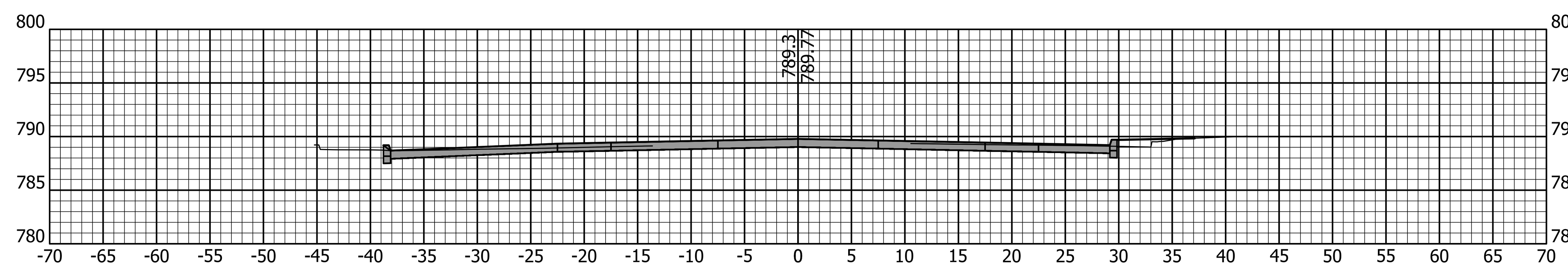

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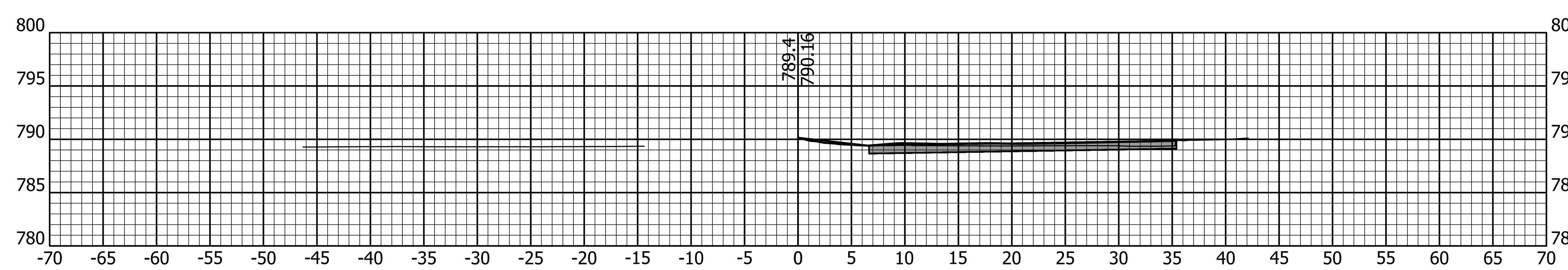

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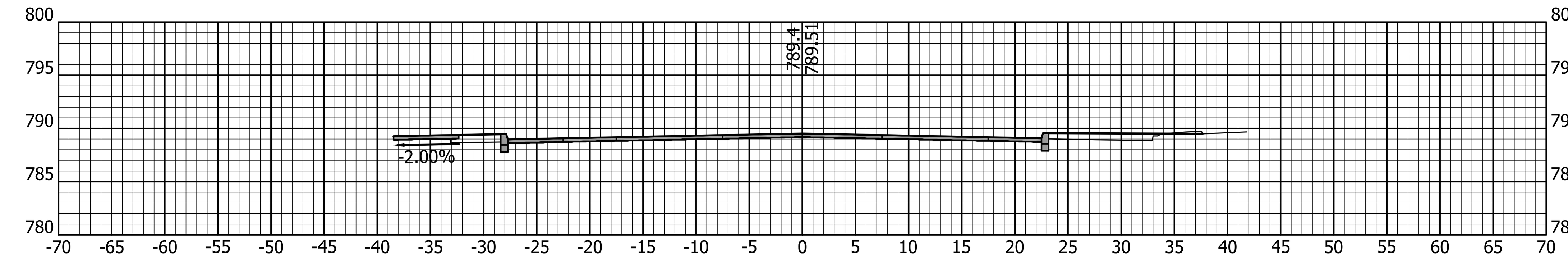

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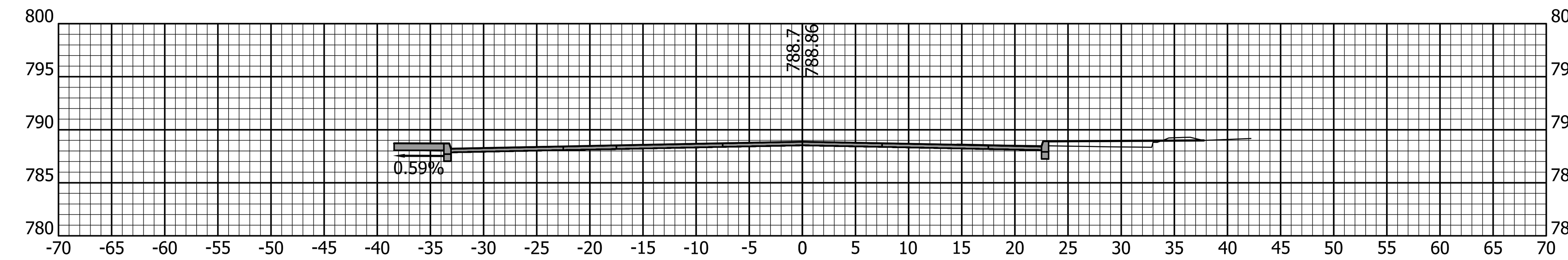

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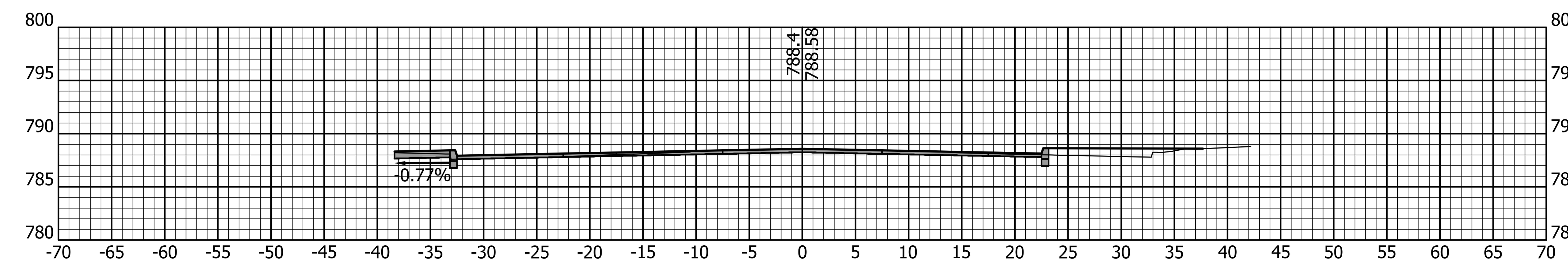

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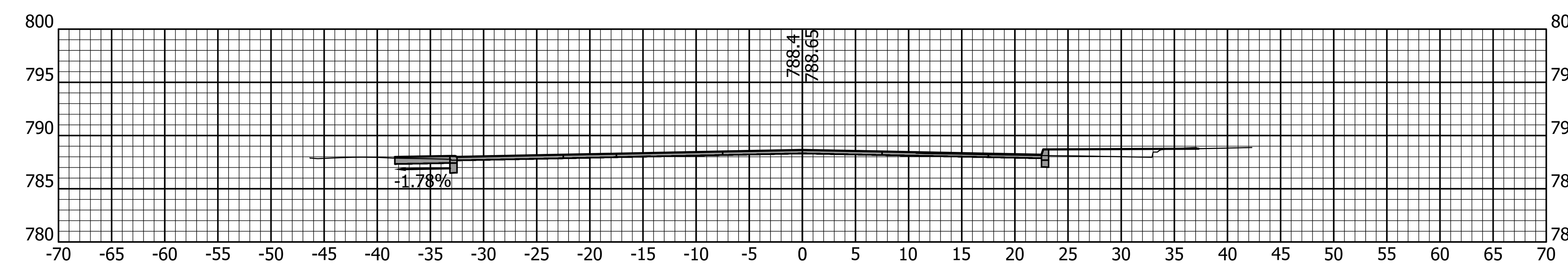

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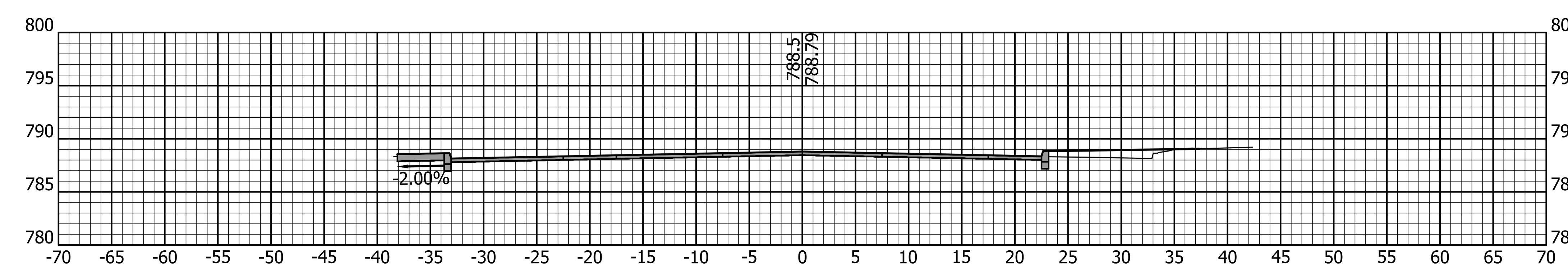

58 + 00

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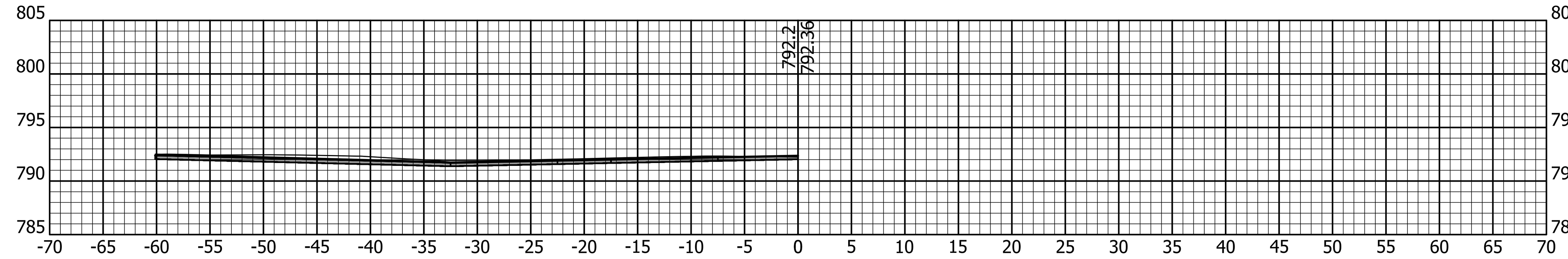
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS13



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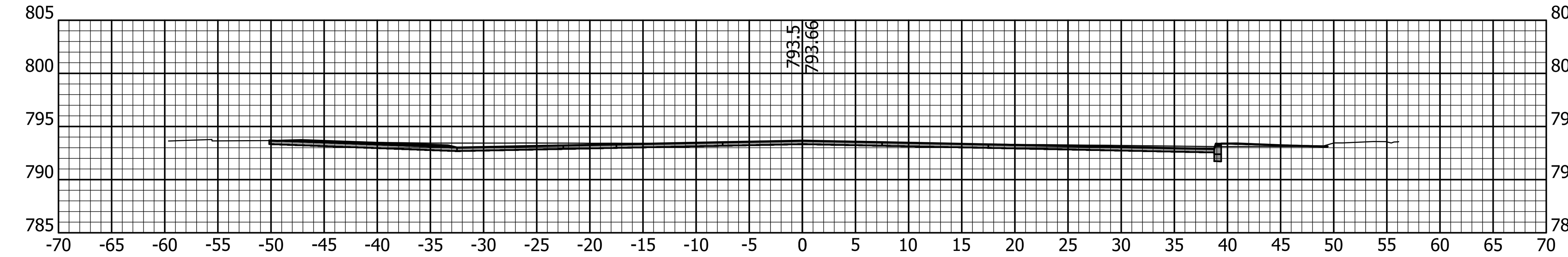

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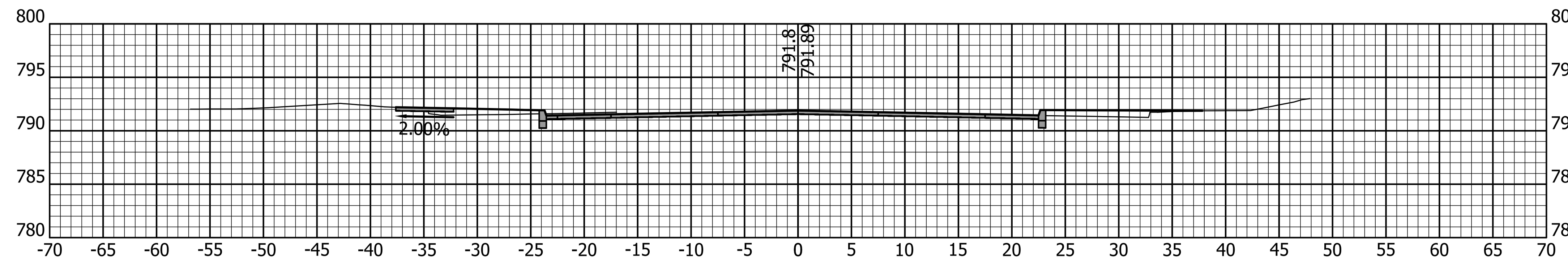

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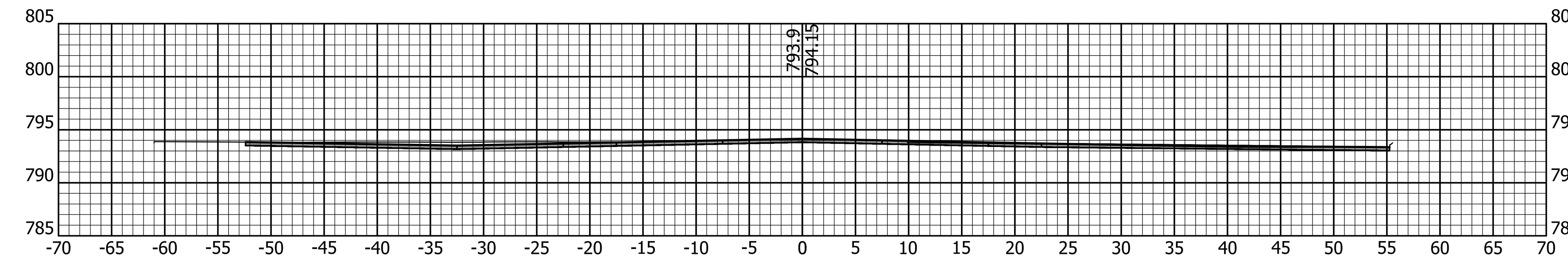

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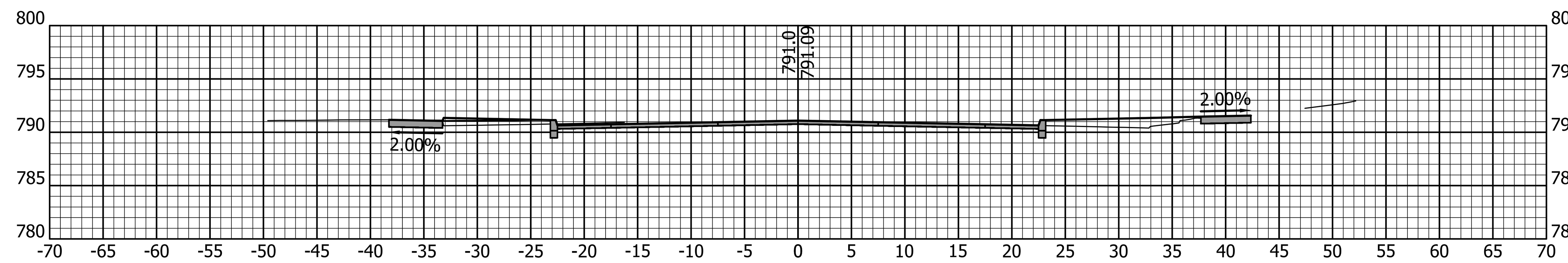

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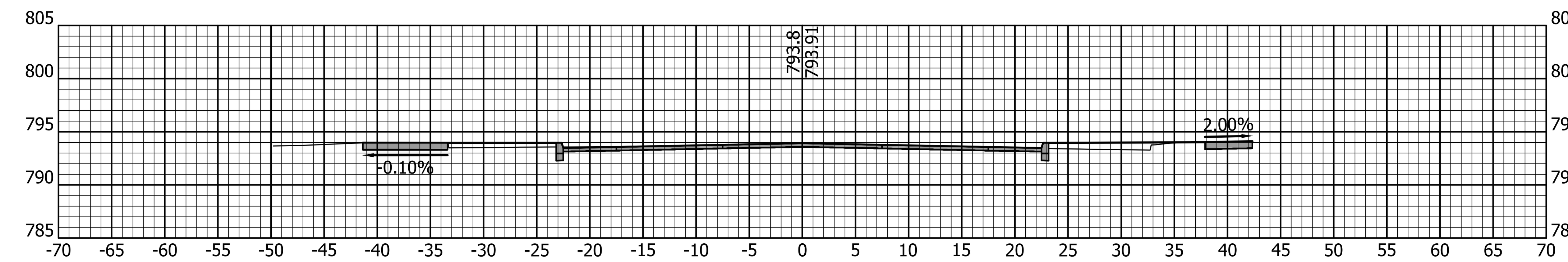

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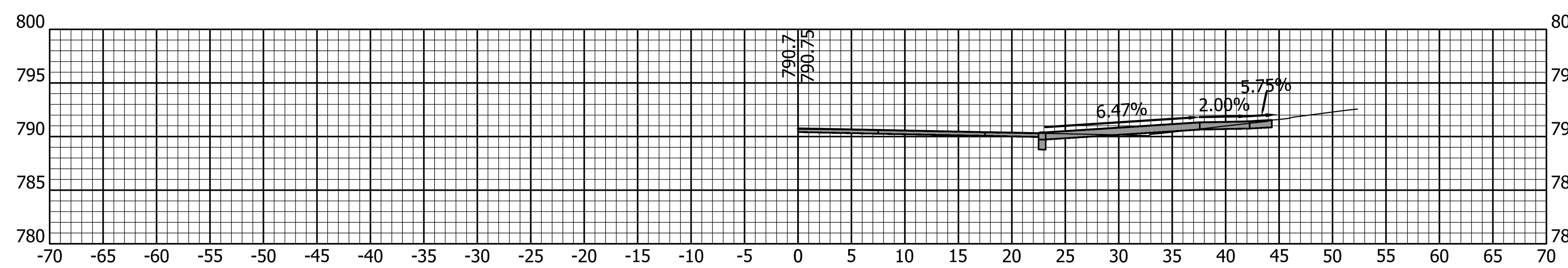

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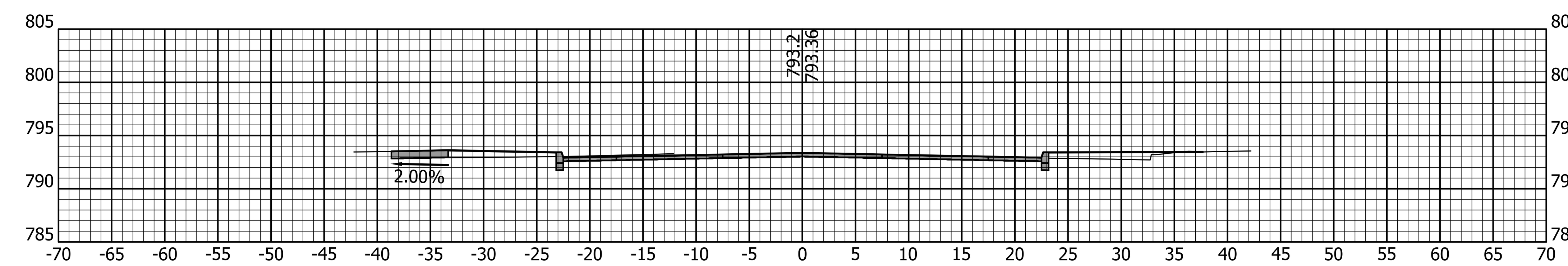

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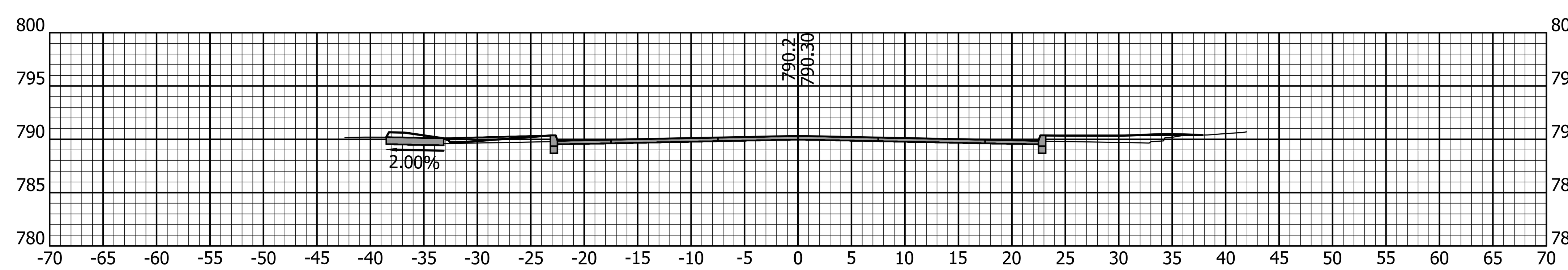

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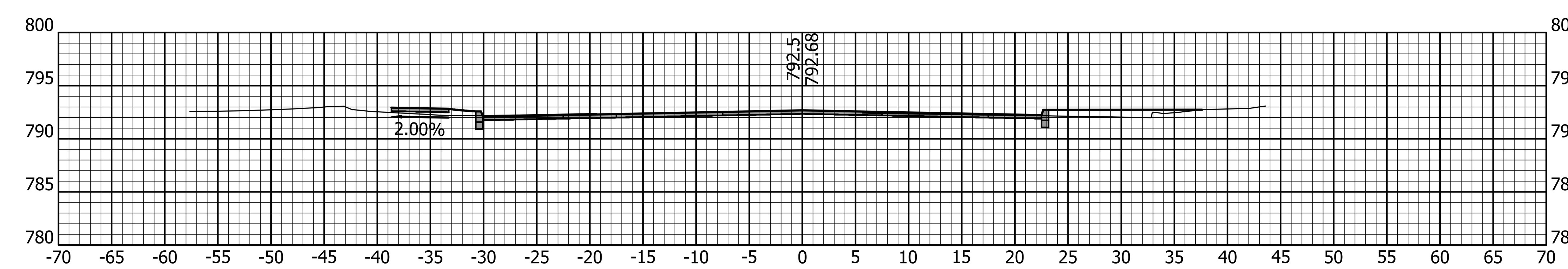

62 + 00

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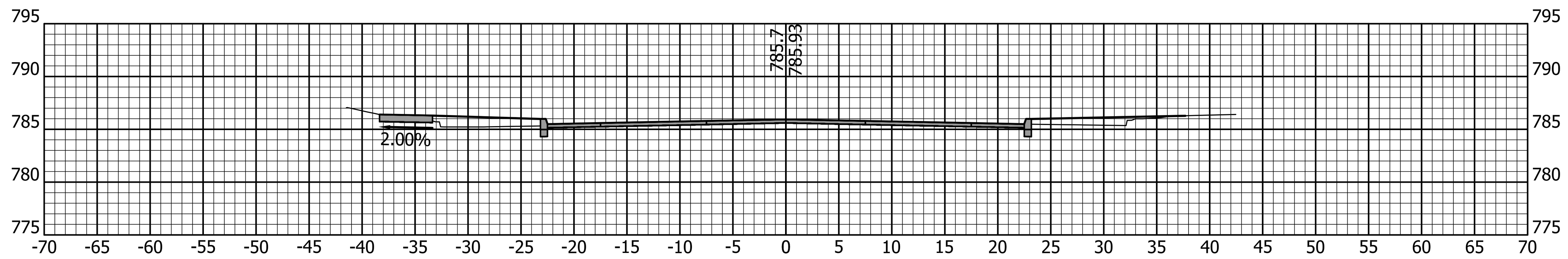
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS14



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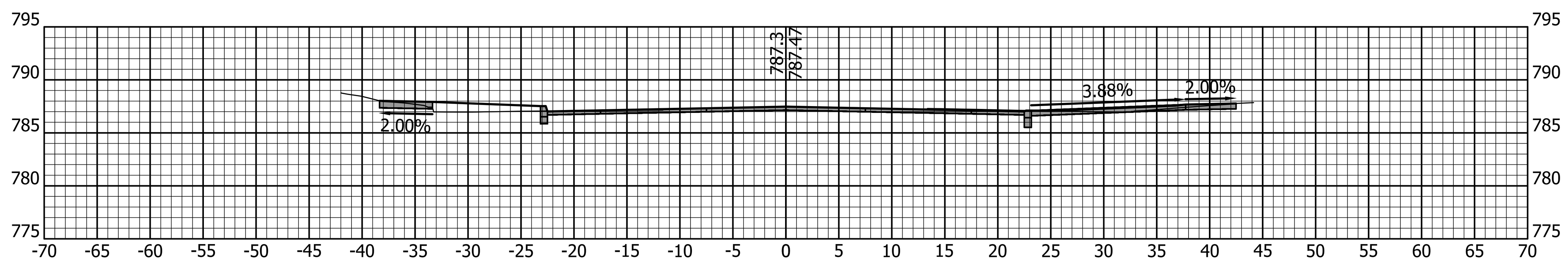

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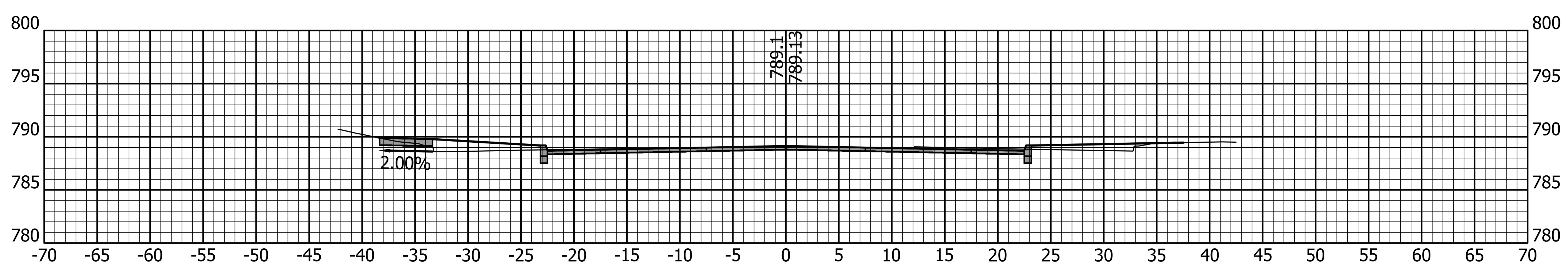

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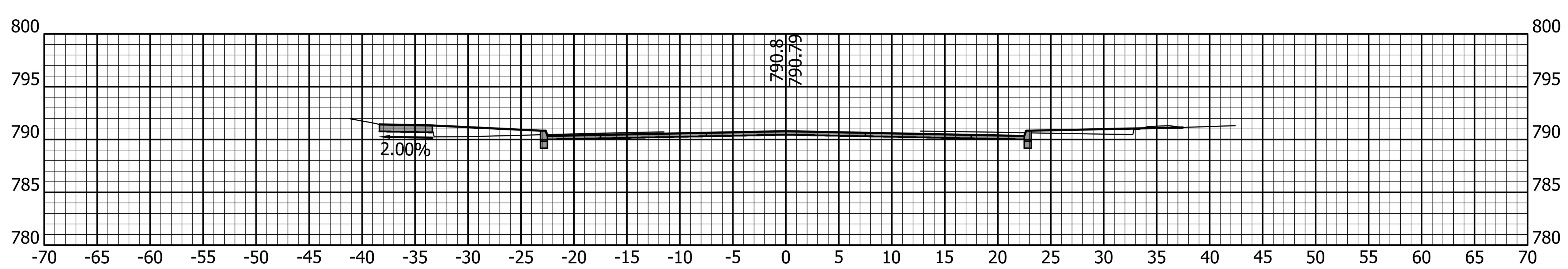

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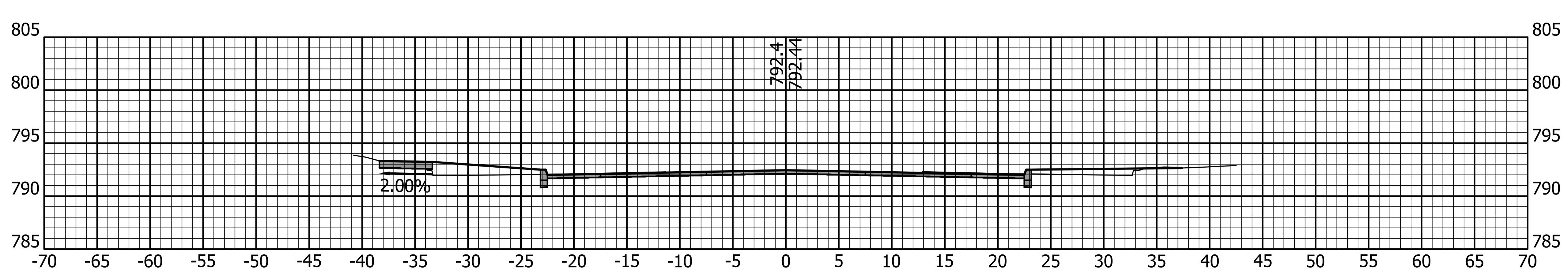

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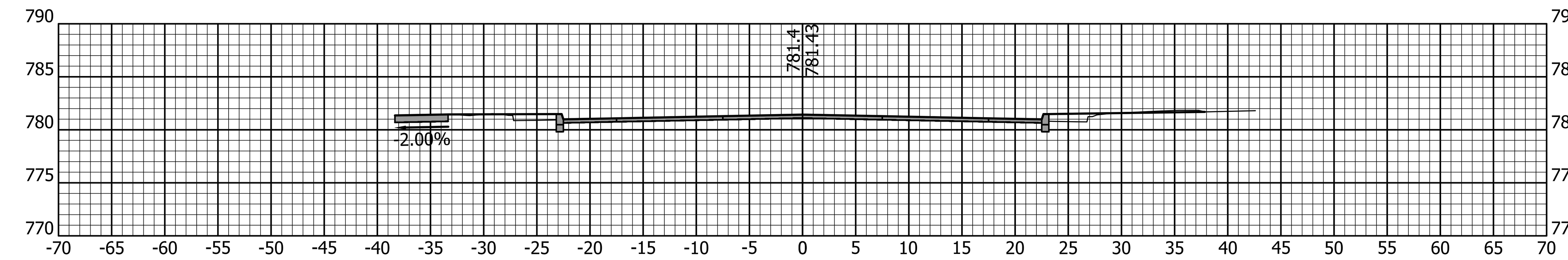

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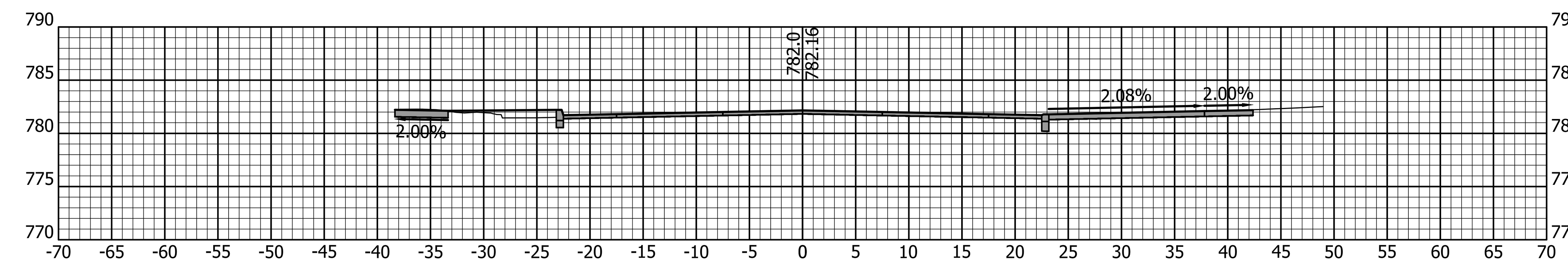

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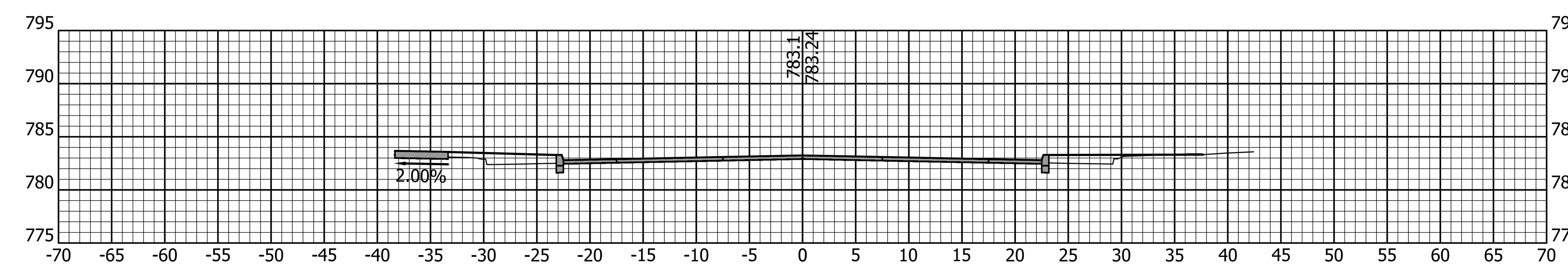

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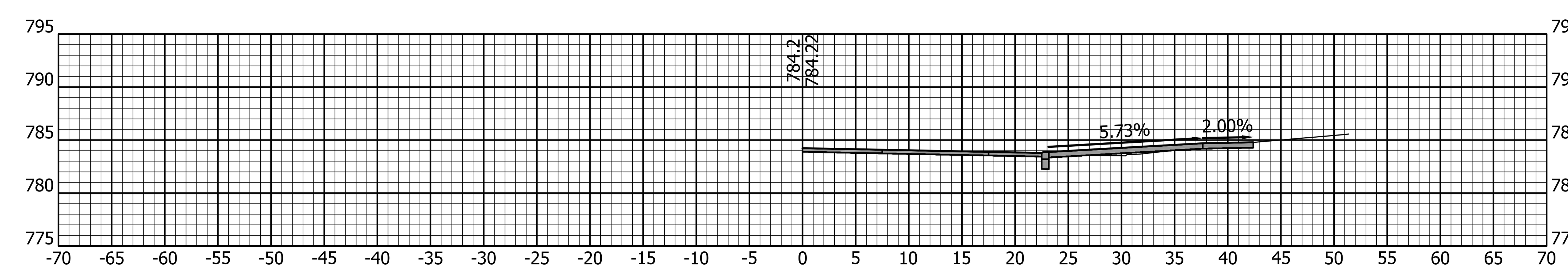

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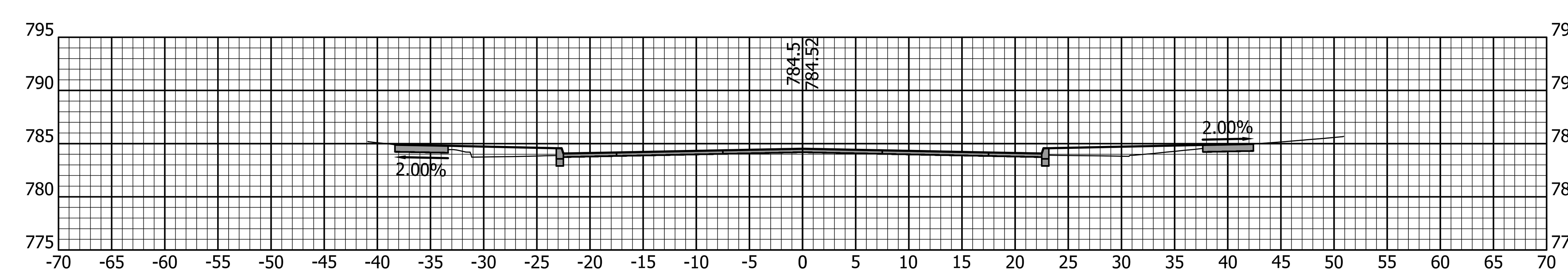

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00

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NO.	DATE	DESCRIPTION	REVISED BY

PLANS CERTIFIED BY:

MARK A. HERALD, P.E.
PROJECT MANAGER

THIS __ DAY OF ________, 20__

NOT FOR CONSTRUCTION
Prefinal Plans
VS ENGINEERING, INC.

PLANS PREPARED BY:
VS ENGINEERING, INC.
10305 Dawsons Creek Blvd. Ste. A
Fort Wayne, Indiana 46825
vsei@vsengineering.com
www.vsengineering.com
Phone: (260) 489-6635
Fax: (260) 489-6605

DRAWN BY:	LG
DESIGNED BY:	MH
CHECKED BY:	HF
DATE:	11/30/15
JOB NO:	
SCALE:	H=1:20

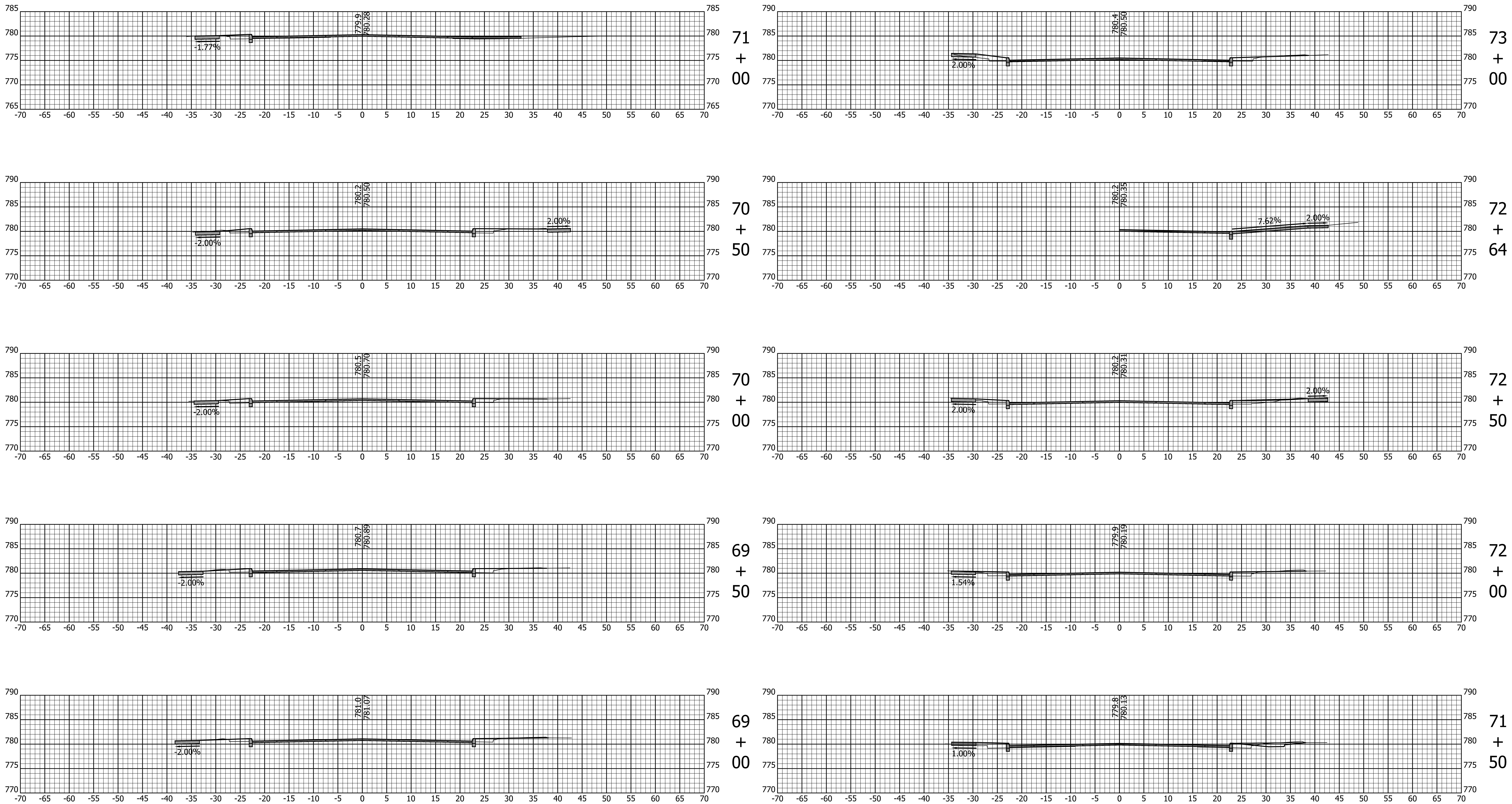
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS15



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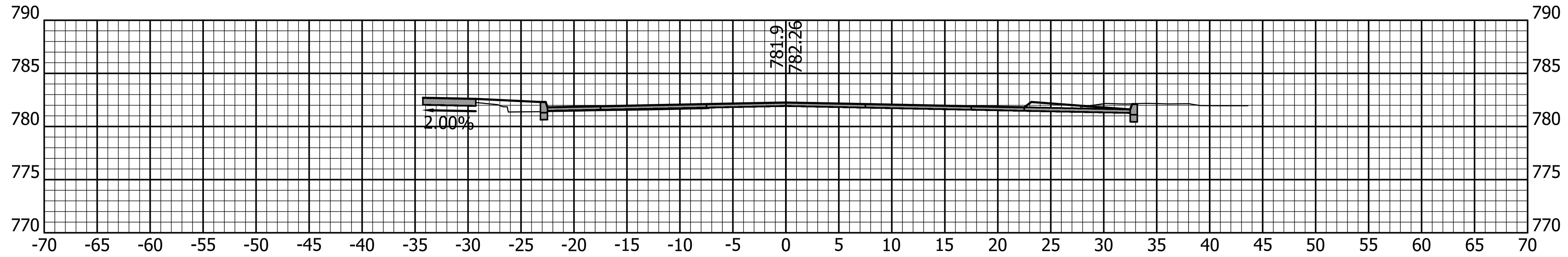
HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS16



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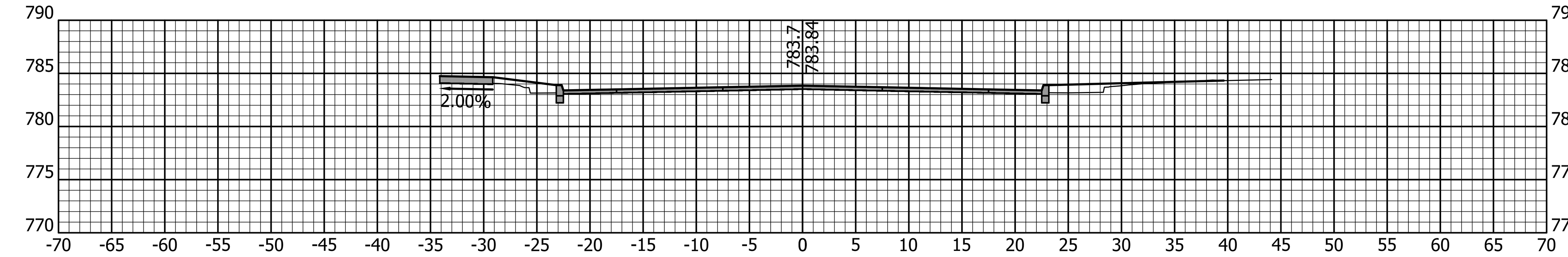

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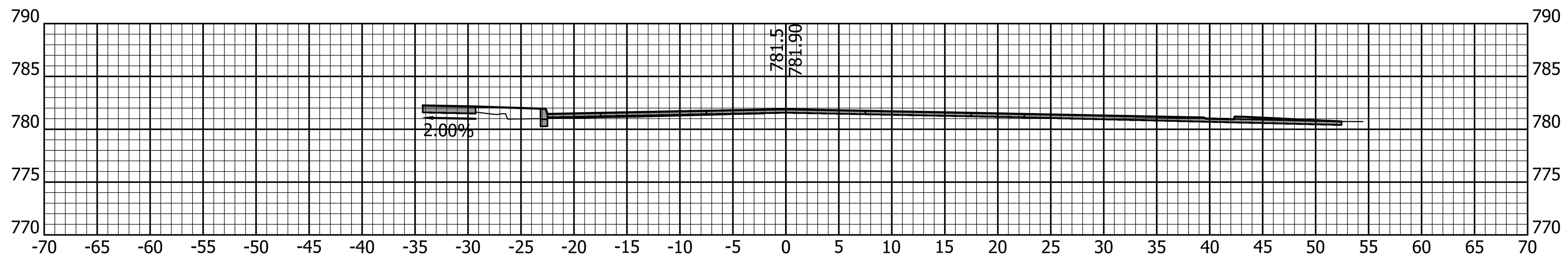

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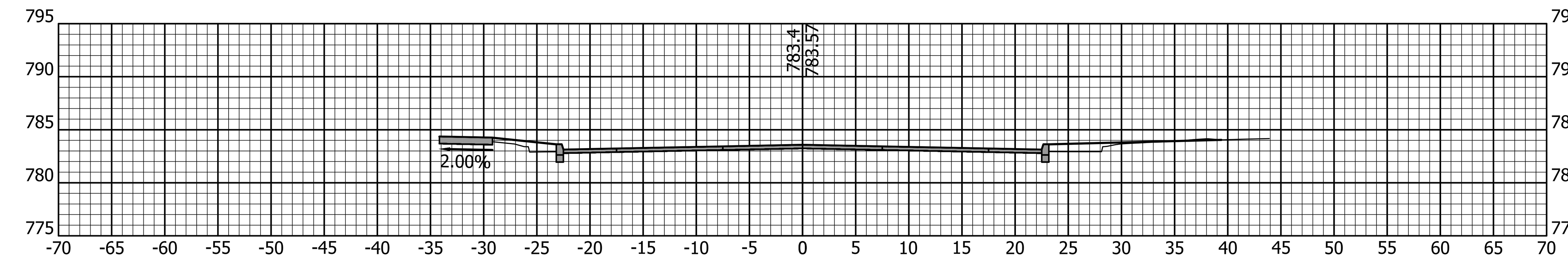

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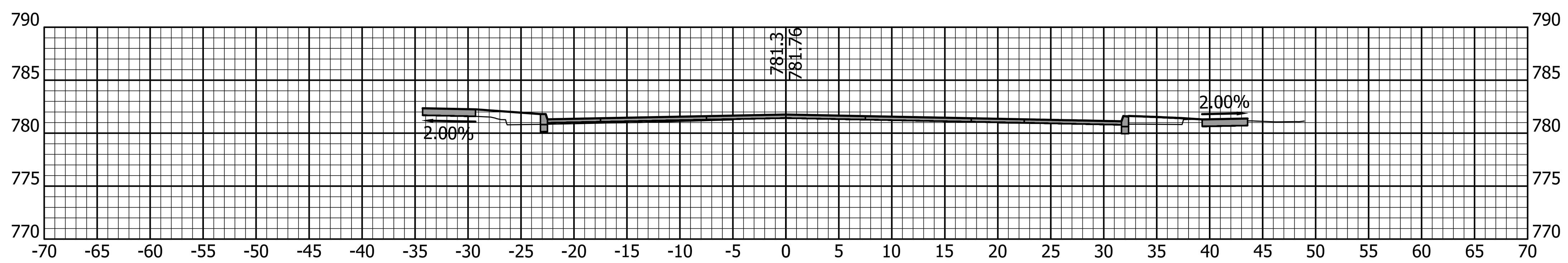

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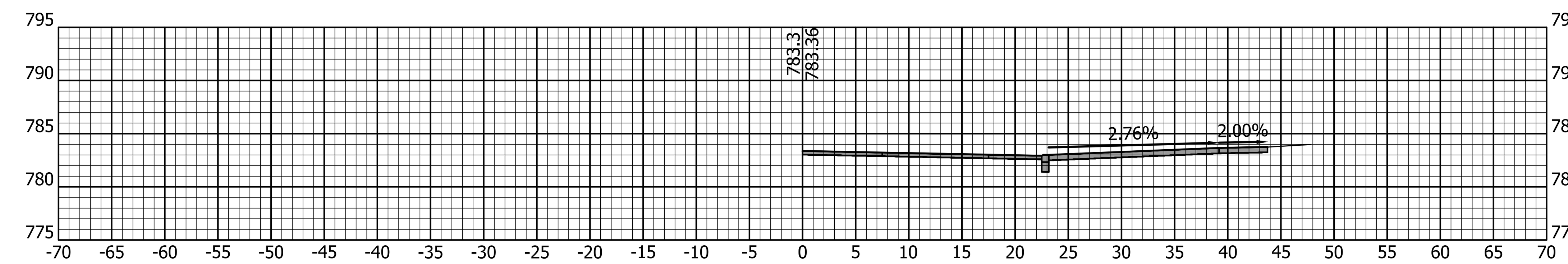

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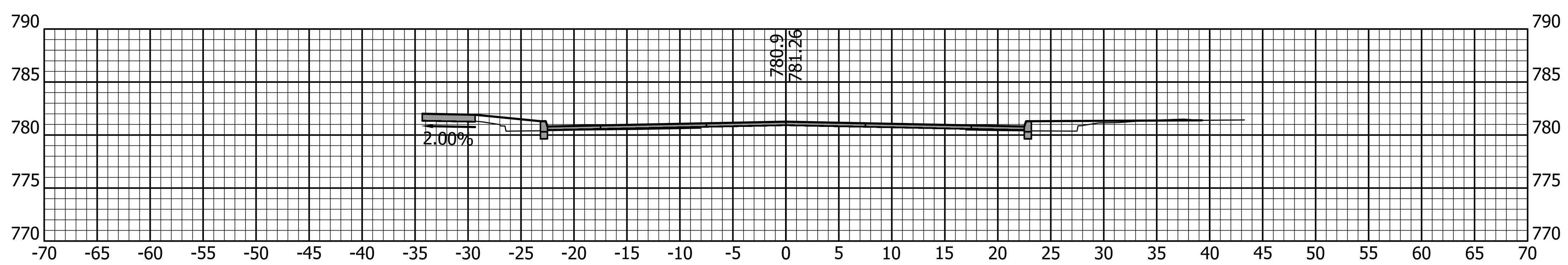

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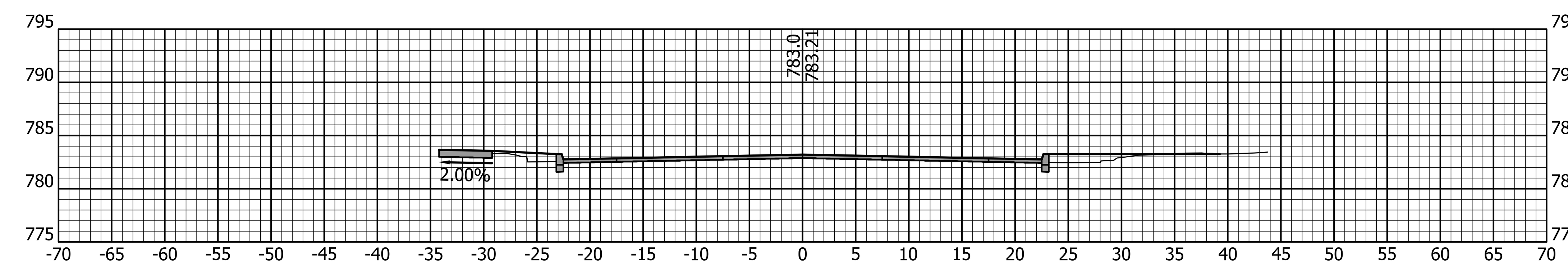

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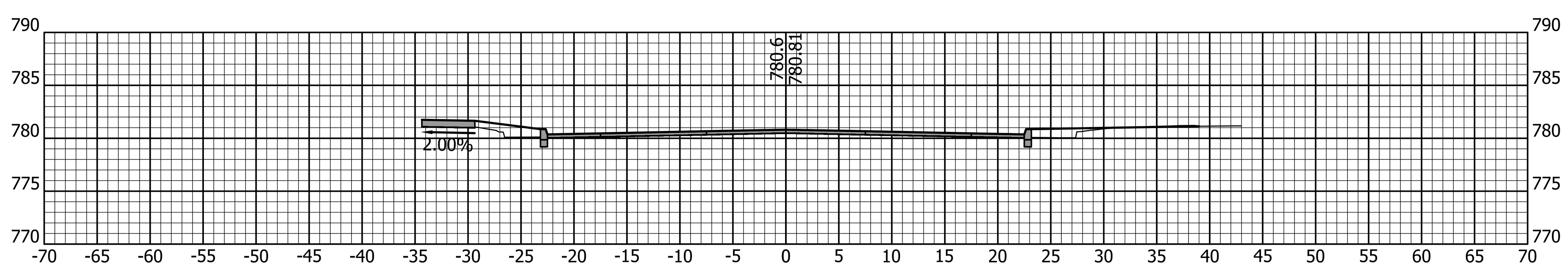

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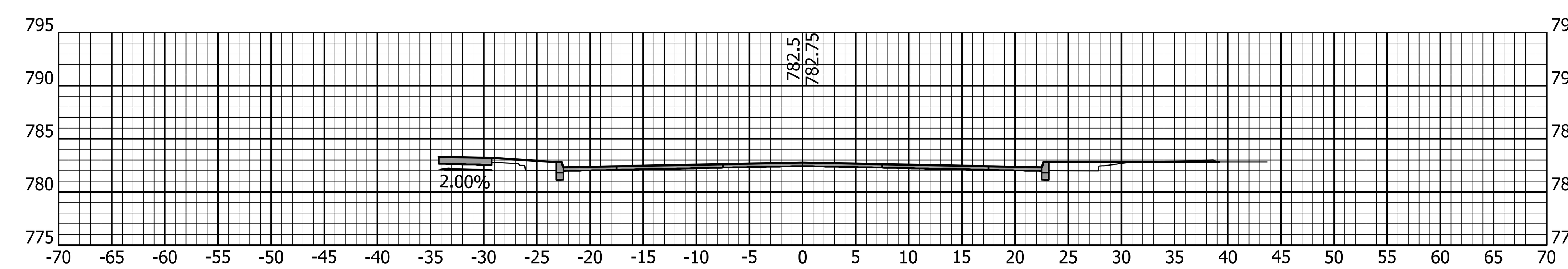

75
+
50

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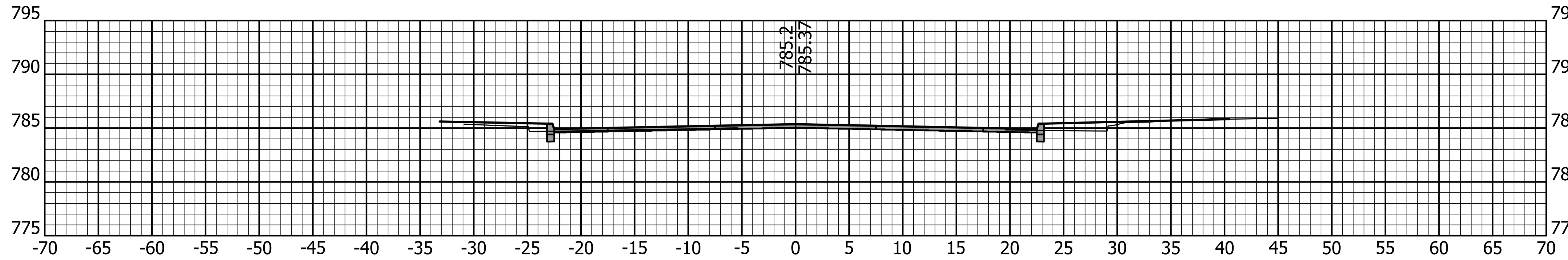
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS17



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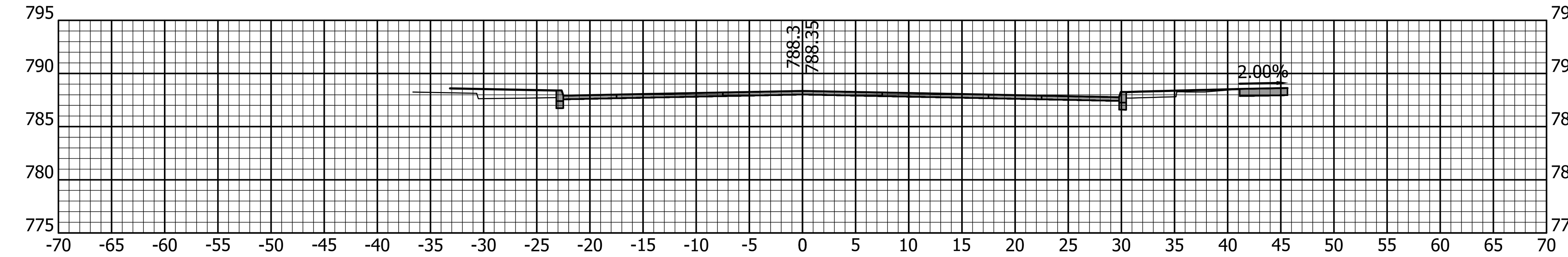

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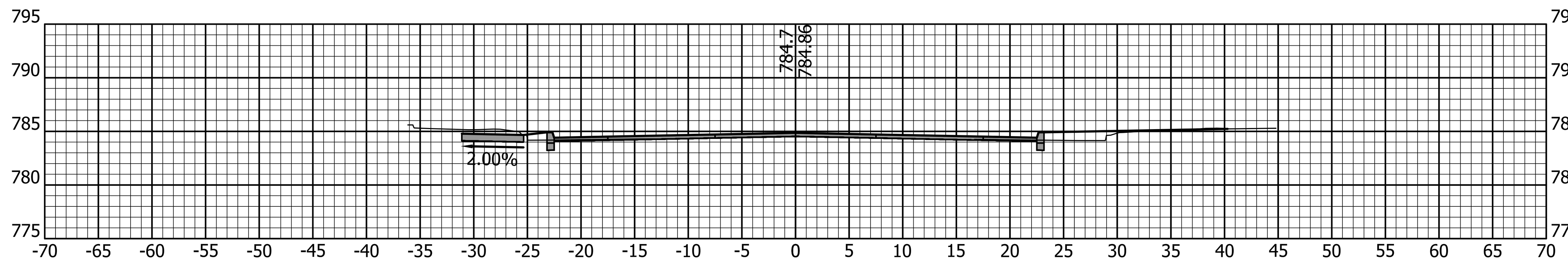

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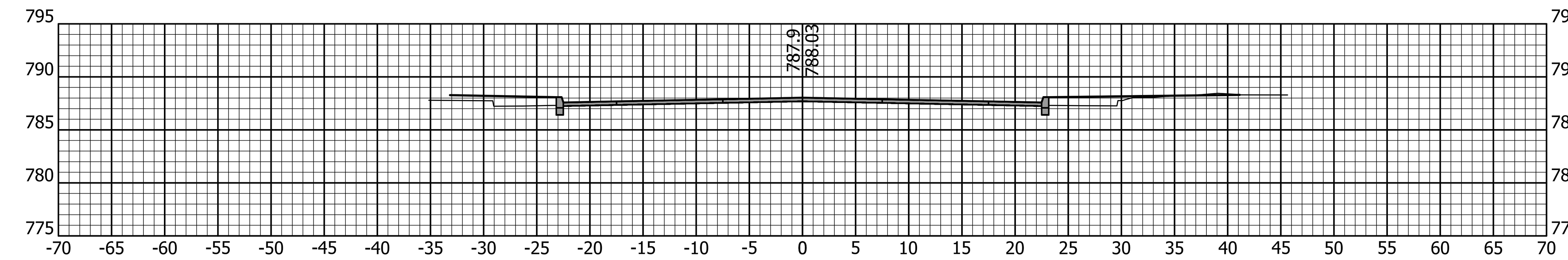

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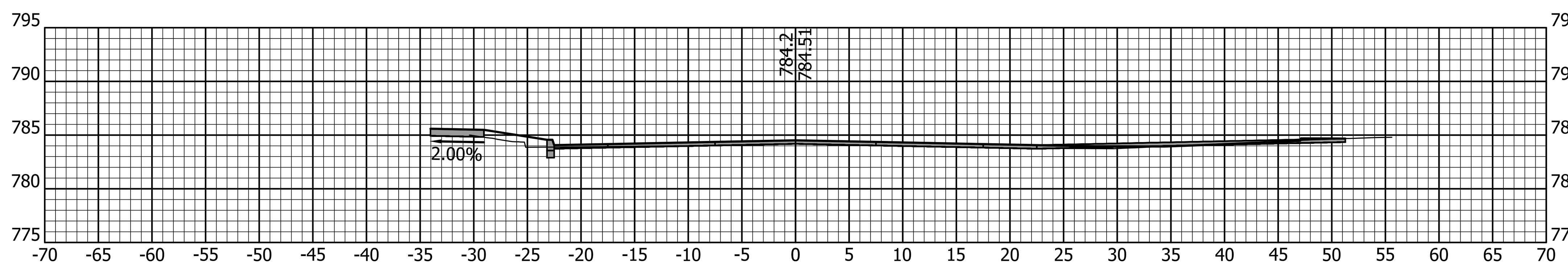

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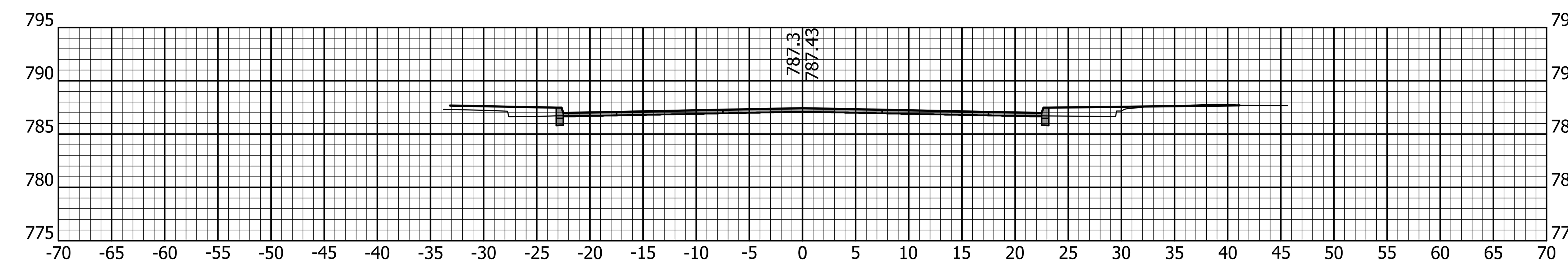

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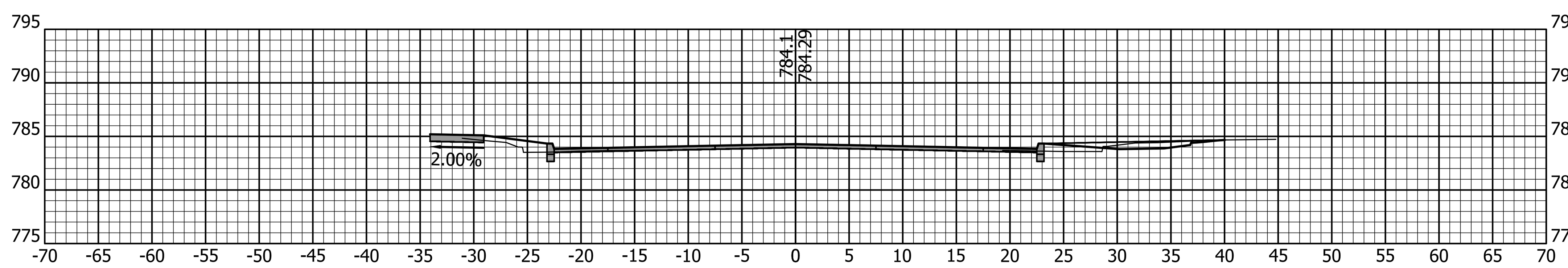

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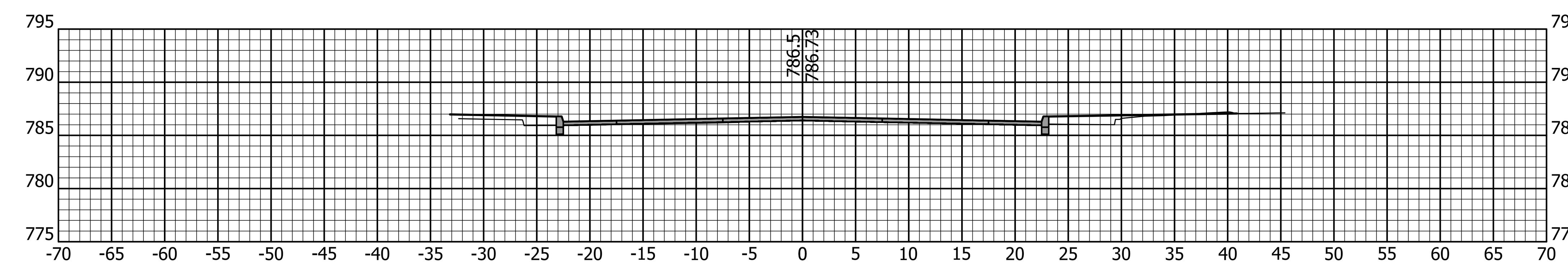

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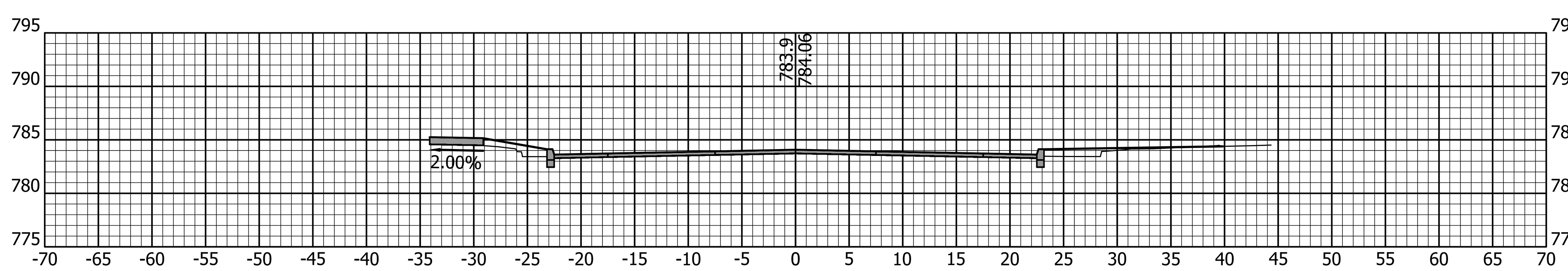

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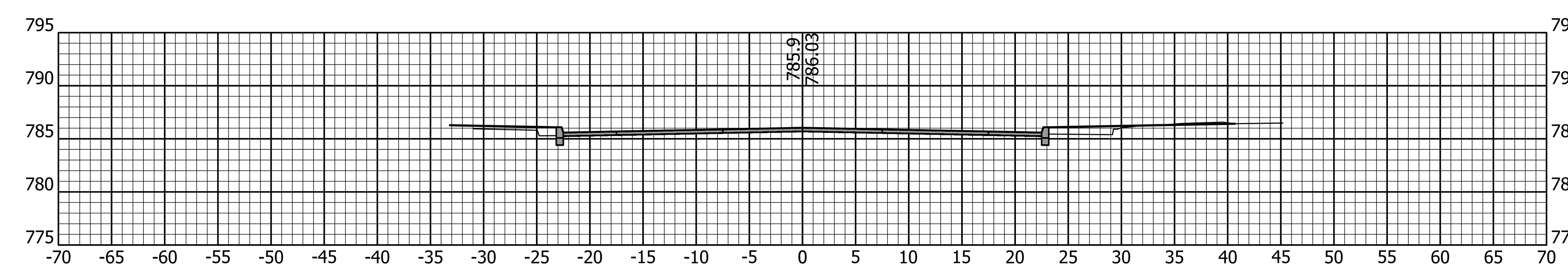

80 + 00

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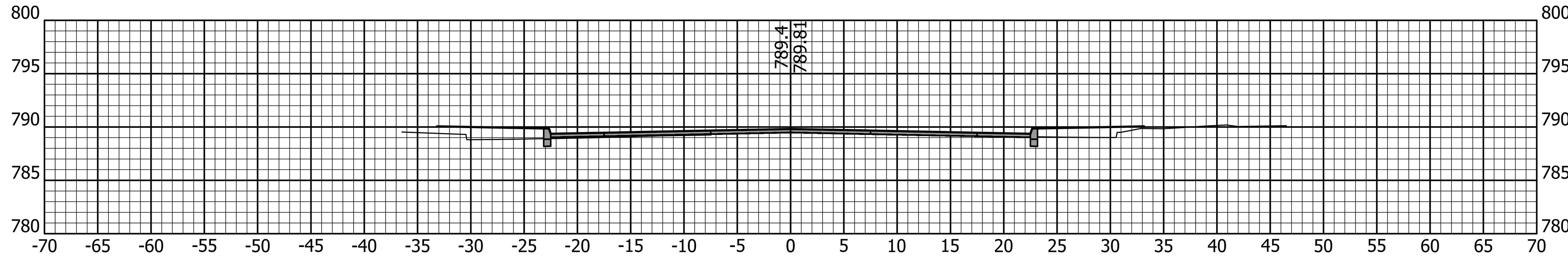
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS18



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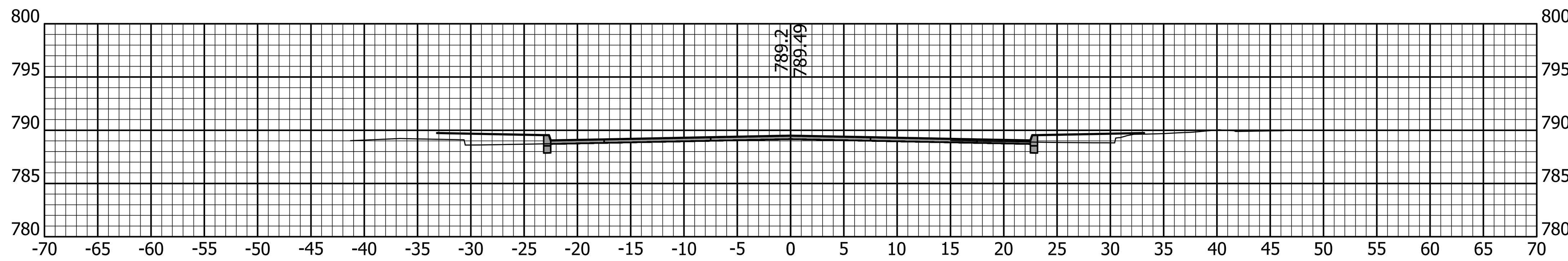

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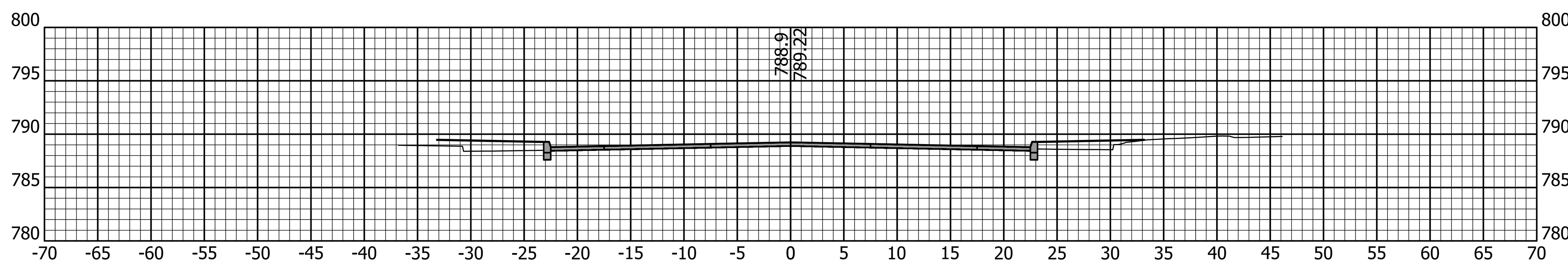

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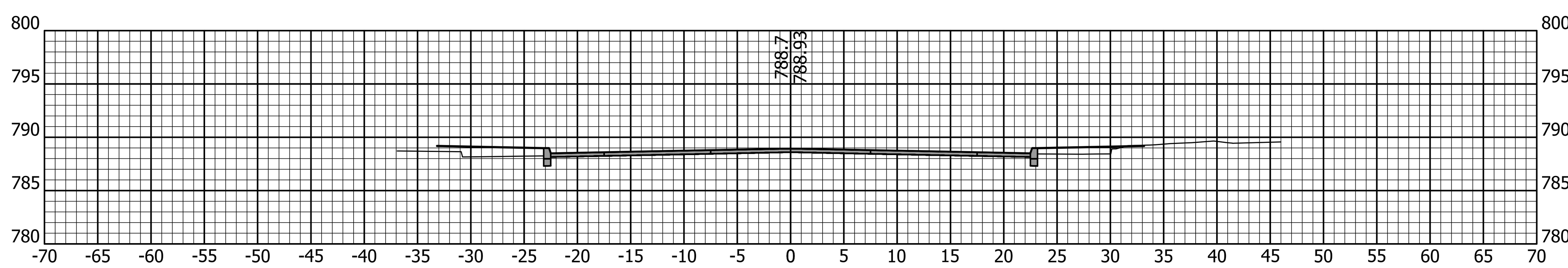

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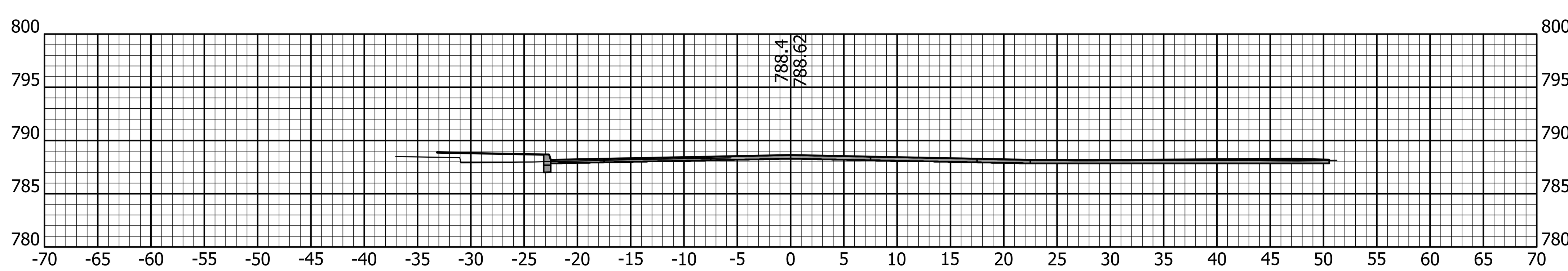

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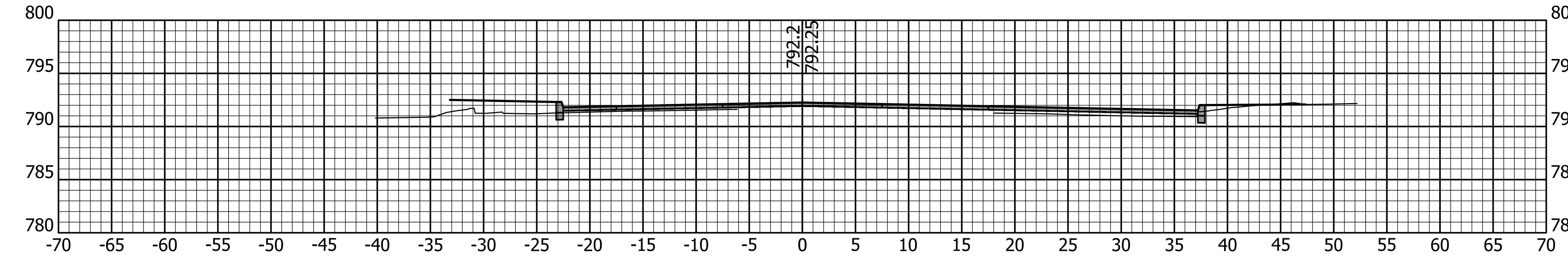

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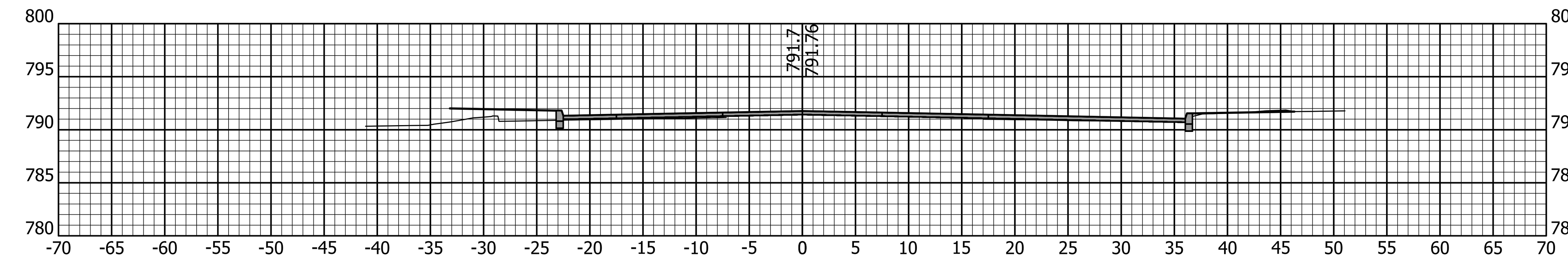

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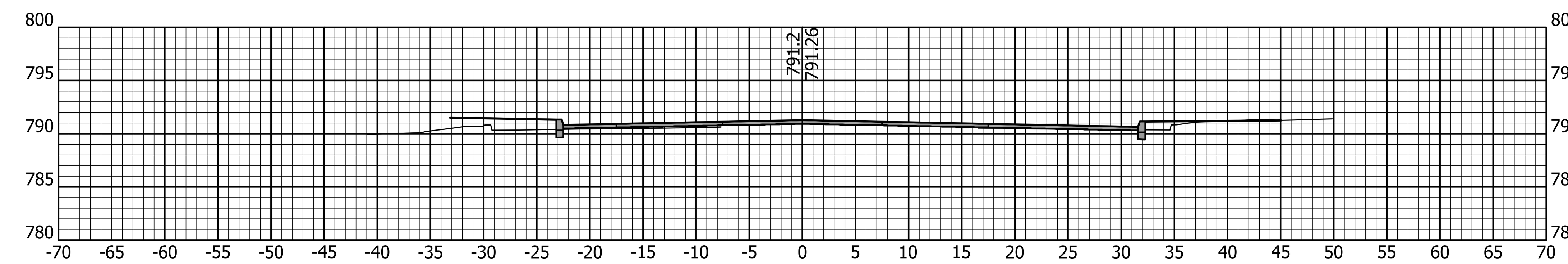

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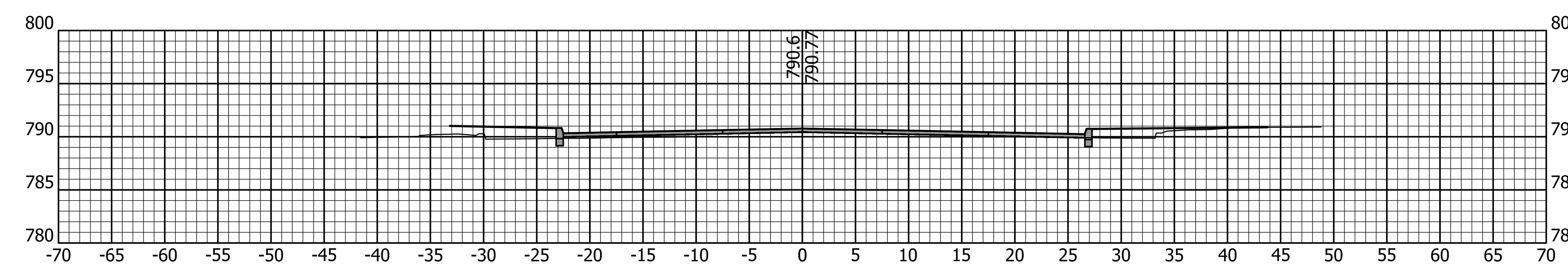

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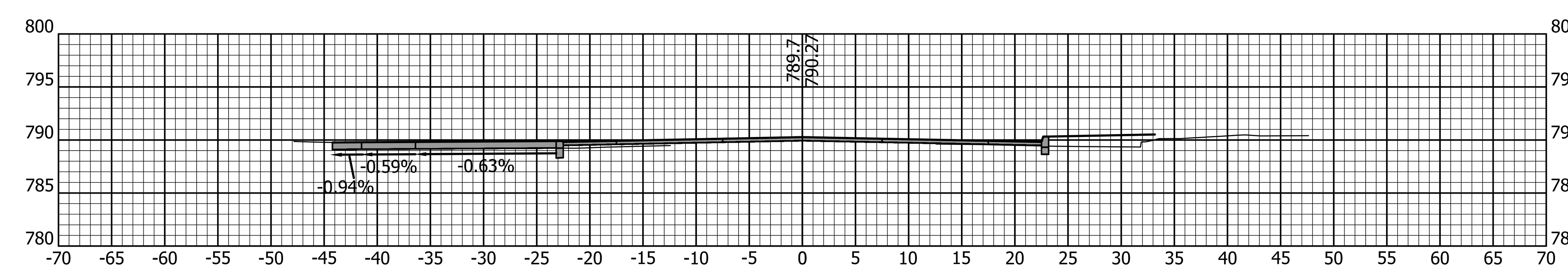

85+00

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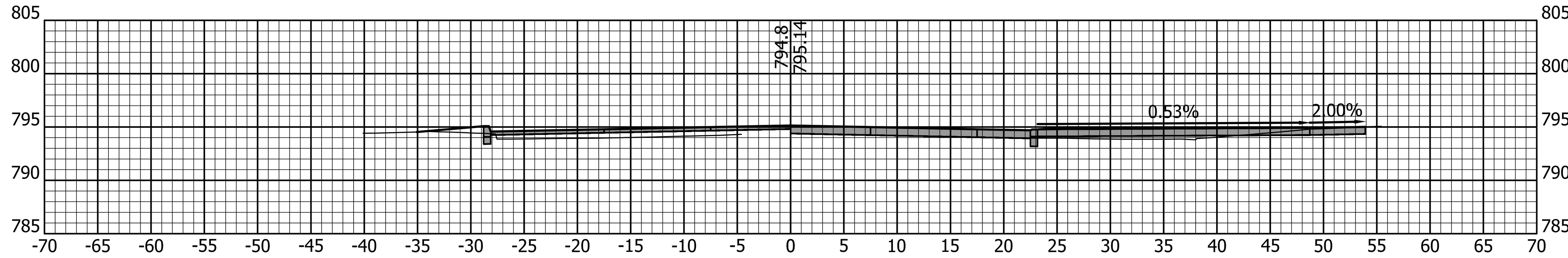
CITY OF FORT WAYNE
TRANSPORTATION DEPARTMENT

HOBSON ROAD REHABILITATION

CROSS SECTIONS, LINE H

DRAWING NO.

XS19



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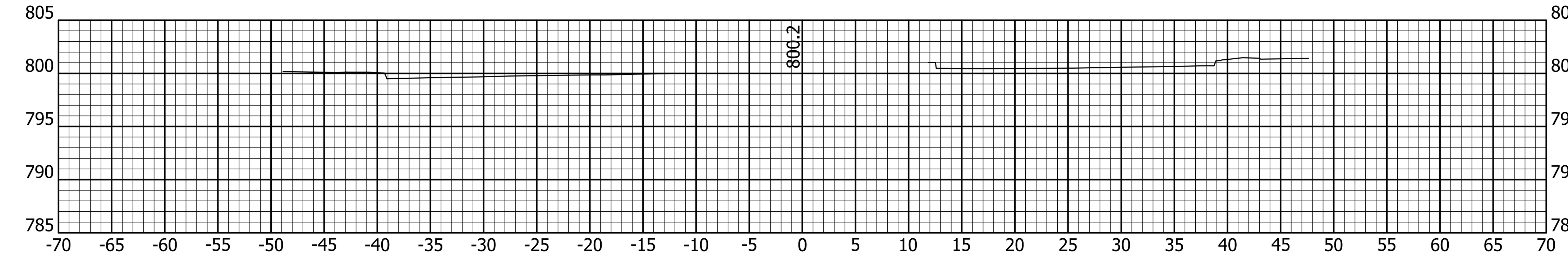

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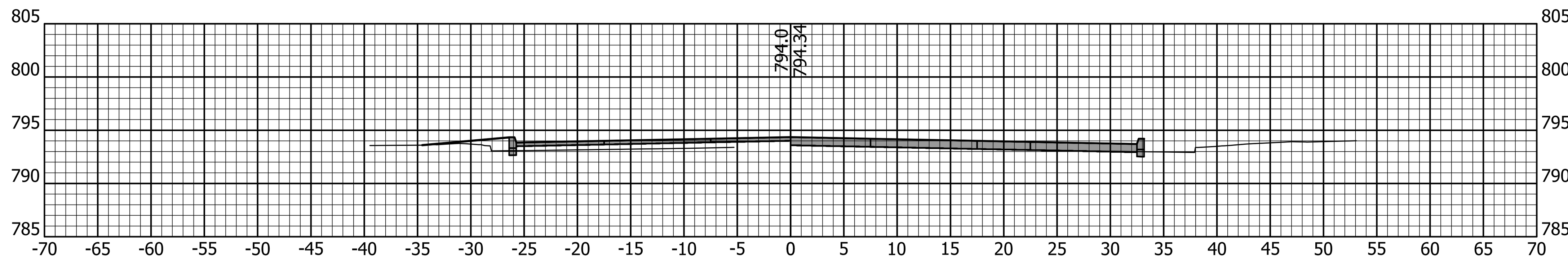

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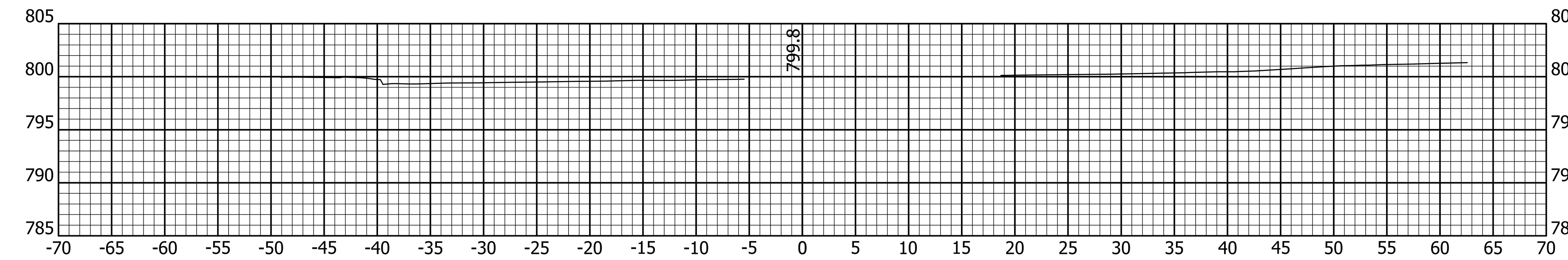

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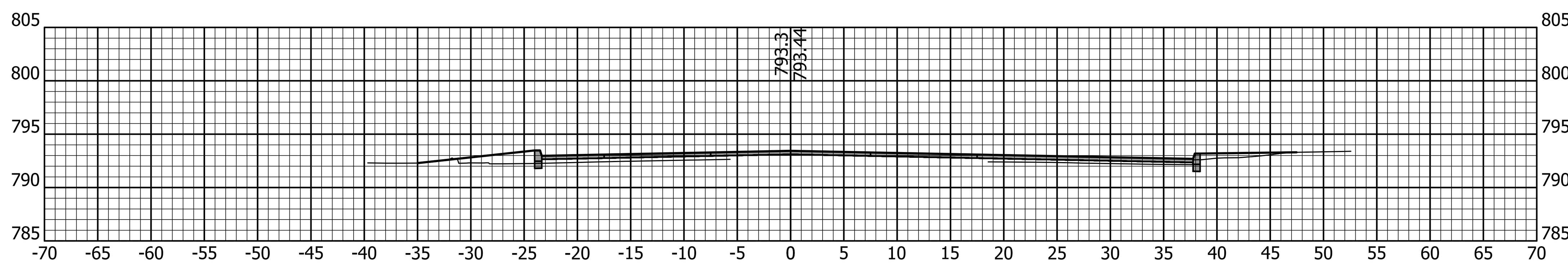

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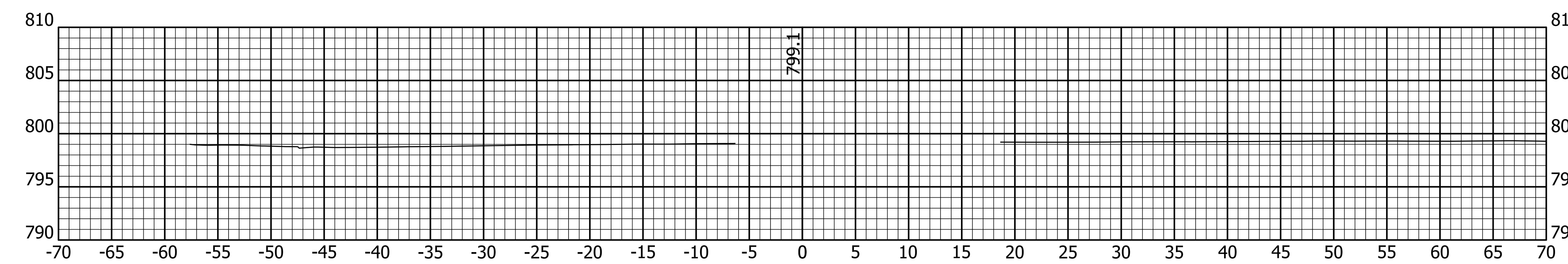

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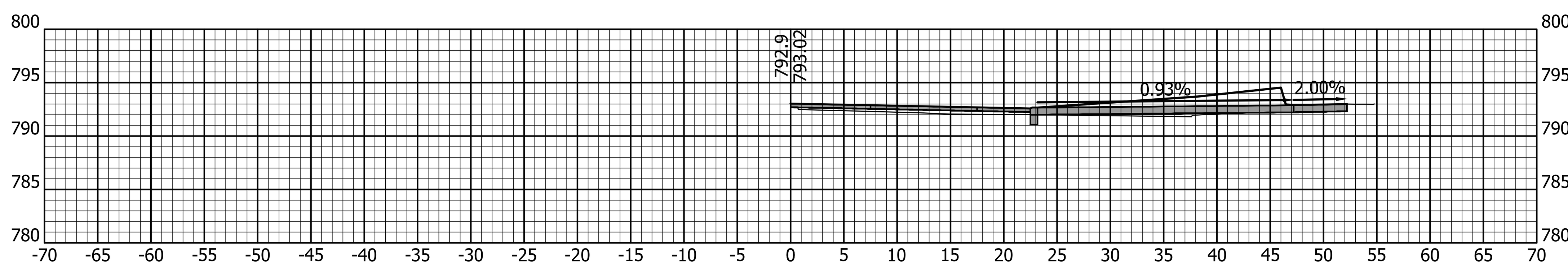

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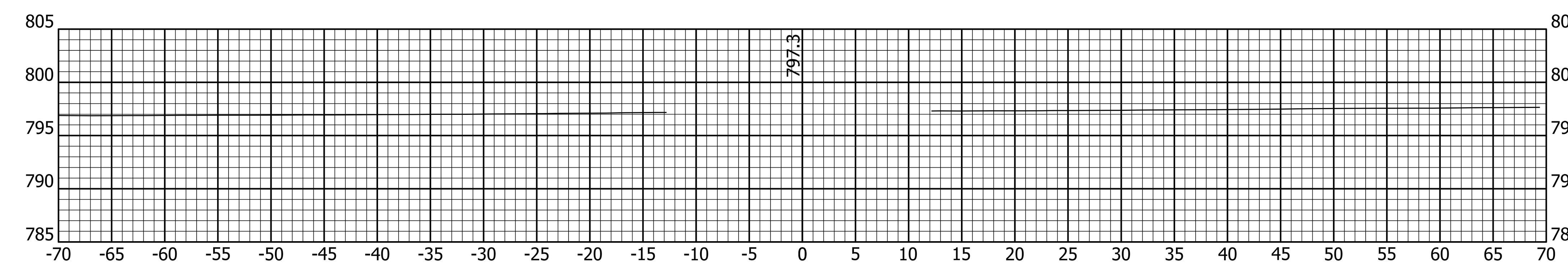

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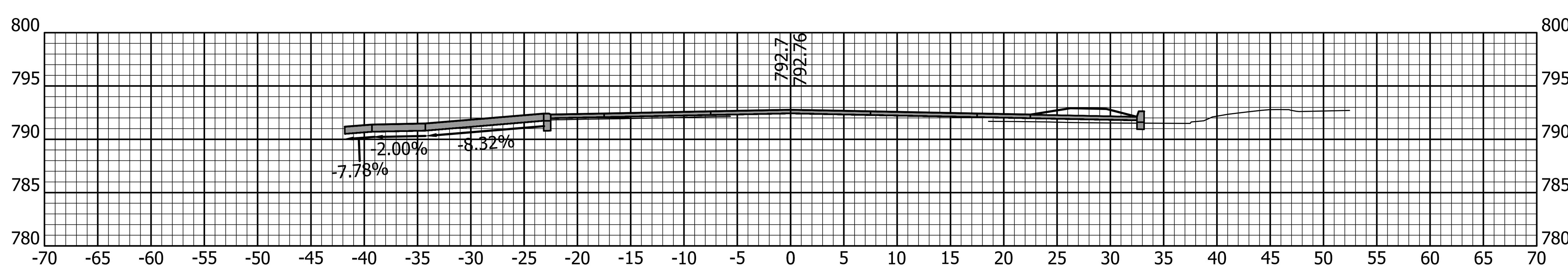

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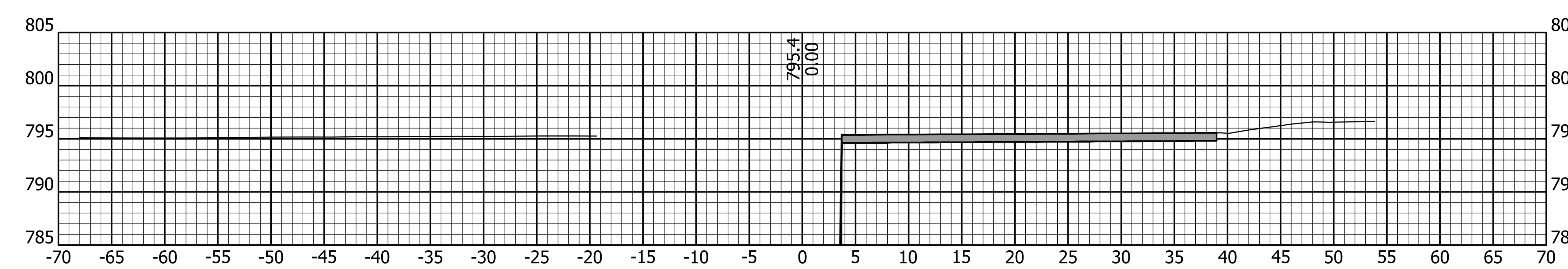

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CROSS SECTIONS, LINE H

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XS20