PROJECT	DESIGNATION
1592393	1592393
CONTRACT	
R-30397	

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS / WATER MAIN

PROJECT NO. 1592393 ( ) P.E.
1592393 ( ) R/W
1592393 ( ) CONST.

US 27 FROM RP 20+00 TO RP 22+85

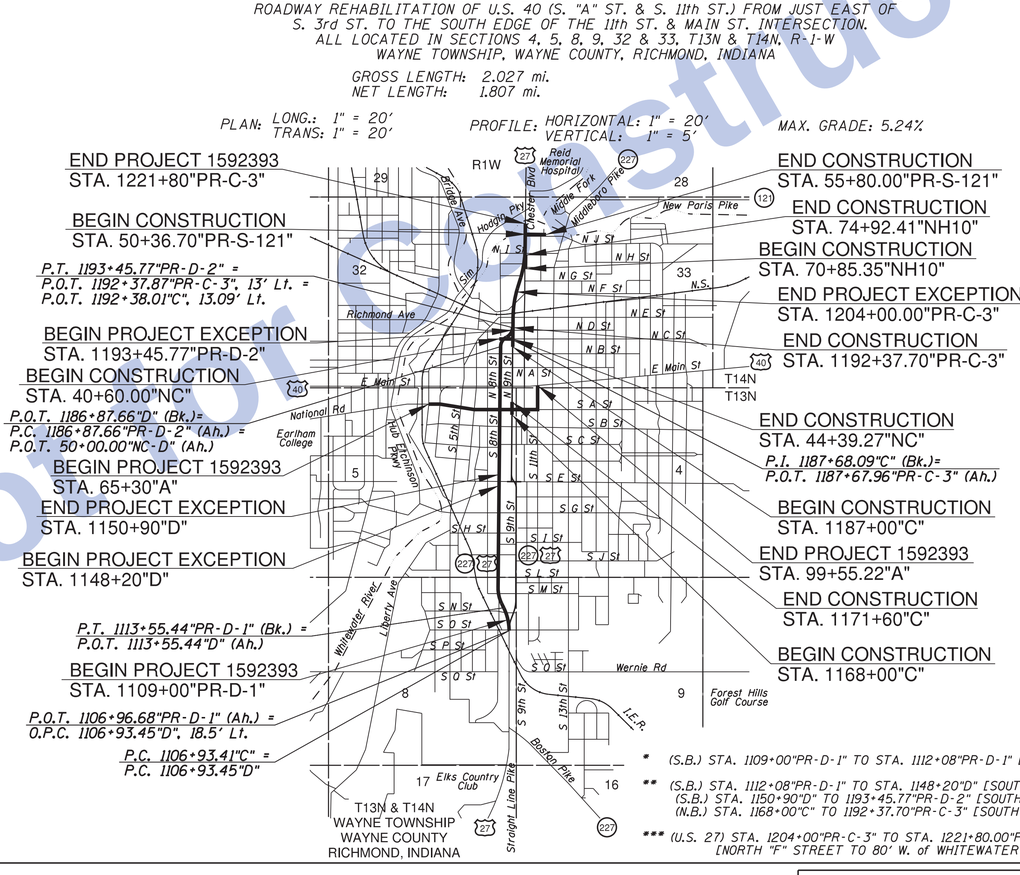
U.S. 27 PAVEMENT REPLACEMENT (SB LANES ONLY) FROM S. "O" ST. TO N. "D" ST., & PAVEMENT REPLACEMENT (BOTH NB LANES & SB LANES) FROM N. "F" ST. TO N. "I" ST. ROADWAY REHABILITATION OF U.S. 40 (S. "A" ST. & S. 11th ST.) FROM JUST EAST OF S. 3rd ST. TO THE SOUTH EDGE OF THE 11th ST. & MAIN ST. INTERSECTION.
ALL LOCATED IN SECTIONS 4, 5, 8, 9, 32 & 33, T13N & T14N, R-1-W
WAYNE TOWNSHIP, WAYNE COUNTY, RICHMOND, INDIANA

GROSS LENGTH: 2.027 mi.
NET LENGTH: 1.807 mi.

PLAN: LONG.: 1" = 20'
TRANS: 1" = 20'

PROFILE: HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

MAX. GRADE: 5.24%



SCALE: 1" = 2000'

TRAFFIC DATA	U.S. 27 (Section 1) *		U.S. 27 (Section 2) **		U.S. 27 (Section 3) ***	
A.A.D.T. (2017)	18,700	V.P.D.	18,700	V.P.D.	18,700	V.P.D.
A.A.D.T. (2037)	22,800	V.P.D.	22,800	V.P.D.	22,800	V.P.D.
D.H.V. (2037)	2,280	V.P.H.	2,280	V.P.H.	2,280	V.P.H.
DIRECTIONAL DISTRIBUTION	54 (Northbound)	%	54 (Northbound)	%	54 (Northbound)	%
TRUCKS	6.0%	A.A.D.T.	6.0%	A.A.D.T.	6.0%	A.A.D.T.
	8.0%	D.H.V.	8.0%	D.H.V.	8.0%	D.H.V.
DESIGN DATA						
DESIGN SPEED	40 mph		30 mph		35 mph	
PROJECT DESIGN CRITERIA	RECONSTR. (NON-FREEWAY)		RECONSTR. (NON-FREEWAY)		RECONSTR. (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL		PRINCIPAL ARTERIAL		PRINCIPAL ARTERIAL	
RURAL/URBAN	URBAN (SUBURBAN)		URBAN (BUILT-UP)		URBAN (INTERMEDIATE)	
TERRAIN	LEVEL		LEVEL		LEVEL	
ACCESS CONTROL	NONE		NONE		NONE	

TRAFFIC DATA	NORTH "C" ST.		NORTH 10TH ST.	
A.A.D.T. (2017)	1,500 - 6,000	V.P.D.	2,200	V.P.D.
A.A.D.T. (2037)	1,500 - 6,000	V.P.D.	3,300	V.P.D.
D.H.V. (2037)	150 - 600	V.P.H.	330	V.P.H.
DIRECTIONAL DISTRIBUTION	50	%	52	%
TRUCKS	10%	A.A.D.T.	10%	A.A.D.T.
	10%	D.H.V.	10%	D.H.V.
DESIGN DATA				
DESIGN SPEED	30 mph		30 mph	
PROJECT DESIGN CRITERIA	RECONSTR. (NON-FREEWAY)		RECONSTR. (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	LOCAL STREET		MAJOR COLLECTOR	
RURAL/URBAN	URBAN (BUILT-UP)		URBAN (BUILT-UP)	
TERRAIN	LEVEL		LEVEL	
ACCESS CONTROL	NONE		NONE	

TRAFFIC DATA	S.R. 121	
A.A.D.T. (2017)	8,800	V.P.D.
A.A.D.T. (2037)	15,800	V.P.D.
D.H.V. (2037)	1,420	V.P.H.
DIRECTIONAL DISTRIBUTION	54	%
TRUCKS	12%	A.A.D.T.
	9%	D.H.V.
DESIGN DATA		
DESIGN SPEED	30 mph	
PROJECT DESIGN CRITERIA	RECONSTR. (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL	
RURAL/URBAN	URBAN (INTERMEDIATE)	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	

PROJECT LOCATION SHOWN BY

LONGITUDE: 84°53'25" W
LATITUDE: 39°49'44" N

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2016
TO BE USED WITH THESE PLANS

* (S.B.) STA. 1109+00"PR-D-1" TO STA. 1112+08"PR-D-1" [SOUTH "O" STREET TO SOUTH "N" STREET]

** (S.B.) STA. 1112+08"PR-D-1" TO STA. 1148+20"D" [SOUTH "N" STREET TO SOUTH "E" STREET]
(S.B.) STA. 1150+90"D" TO 1193+45.77"PR-D-2" [SOUTH "E" STREET TO NORTH "D" STREET]
(N.B.) STA. 1168+00"C" TO 1192+37.70"PR-C-3" [SOUTH "A" STREET TO NORTH "D" STREET]

*** (U.S. 27) STA. 1204+00"PR-C-3" TO STA. 1221+80.00"PR-C-3"
[NORTH "F" STREET TO 80' W. of WHITEWATER RIVER]

Not for Construction

Clark Dietz
ENGINEERS

STAGE 3 PLANS
AUGUST 2016

PLANS
PREPARED BY: Clark Dietz, Inc. (317) 844-8900
PHONE NUMBER
CERTIFIED BY: DATE
APPROVED
FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

DESIGNATION
1592393

SURVEY BOOK	SHEETS
	1 of 47
CONTRACT	PROJECT
R-30397	1592393

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UTILITIES

SEWER

Richmond Sanitary District
2380 Liberty Ave.
Richmond, IN 47374

ATTN: Elijah Welch
TEL. : (765) 983-7483

CATV

Telecom Placement, Inc.
(Representing Comcast Northeast)
335 E. 10th Street
Anderson, IN 46016

ATTN: Buddy Cabiness
TEL. : (765) 622-2904
MOBILE : (765) 256-1651

TELEPHONE

Frontier Communications
(Formerly Verizon North Inc.)
1191 Rich Rd.
Richmond, IN 47374

ATTN: Jo Ann Anthony
TEL. : (765) 983-4506

ELECTRIC

Richmond Power & Light
2000 US 27 South
Richmond, IN 47374

PO Box 908
Richmond, IN 47375

ATTN: Scott Meinardi
TEL. : (765) 973-7400

GAS & ELECTRIC

Vectren Energy
1 N Main St.
Evansville, IN 47711

ATTN: Marty Frederick
TEL. : (812) 491-4765

Local Contact

Vectren Energy
3421 Chester Blvd.
Richmond, IN 47374

ATTN: Jeff Theobald
TEL. : (765) 939-4645

WATER

Indiana American Water
555 E. County Line Rd., Ste. 201
Greenwood, IN 46143

ATTN: Ezat Nayeri, P.E.
TEL. : (317) 885-2447
E-MAIL : ezat.nayeri@amwater.com

COMMUNICATIONS

Windstream
3701 Communications Way
Evansville, IN 47715

ATTN: Jeff Taylor
TEL. : (309) 838-0788

GENERAL NOTES

**	All earth shoulders, median areas, cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
**	The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
	The paper relocation will be cross sectioned by the Engineer before construction.
**	Existing asphalt pavement located outside the construction limits, between Sta. _____ and Sta. _____, shall be removed as directed. (To be completed)
	The quantity of peat excavation shown on the plans has been estimated on the basis of theoretical cross sections by using treatment of existing fills, treatment by removal, or treatment by displacement where each treatment applies.

** REPRESENTS GENERAL NOTES REQUIRED

INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	GENERAL INFORMATION & INDEX SHEET
3 - 41	PLAN & PROFILES
42 - 47	DETAILS

Not for Construction

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Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL INFORMATION & INDEX SHEET
US 27

HORIZONTAL SCALE	BRIDGE FILE
.	.
VERTICAL SCALE	DESIGNATION
.	1592393
SURVEY BOOK	SHEETS
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.	1592393

SEC. 8, T13N, R1W
WAYNE TWP.
WAYNE CO.

MOSEY REAL ESTATE, INC.

SONSINI, ANTOINETTE

(BEALLVIEW ADD.)

RICHMOND BOYS CLUB

GRAY, RAYMOND D JR & CONNIE S
1409

MALICOAT, MARGARET JO
1405

App. Ex. L.A. R/W

App. ℄

1110+00

CURVE DATA
P.I. 1110+24.14"D"
Δ = 26°02'14" (LT)
D = 4°00'21"
T = 330.69'
L = 649.97'
R = 1,430.28'
E = 37.73'
e = 2%

CURVE DATA
P.I. 1110+65.25"PR-D-1"
Δ = 26°02'14" (LT)
D = 4°24' 27"
T = 300.57'
L = 590.77'
R = 1,300.00'
E = 34.30'
e = 2%

P.O.T. 1106+96.68"PR-D-1" =
P.C. 1106+93.45"D", 18.5' Lt.
[Monument, Type B Req'd.]

P.C. 1106+93.41"C" =
P.C. 1106+93.45"D"
[Monument, Type D Req'd.]

STATE OF INDIANA

BEGIN PROJECT 1592393
STA. 1109+00"PR-D-1"
[Monument, Type B Req'd.]

P.C. 1107+64.67"PR-D-1"
[Monument, Type B Req'd.]

+00.7
STR. No. 11
Exist. Pipe
No Change Req'd.

Pavement Remove

Do Not Disturb GR

MATCH LINE STA. 1111+00 "PR-D-1"

Constr. Limits

(Grass)

(Trees & Brush)

(Conc.)

(Asph. Over Conc.)

US 27

LINE "PR-D-1"
N 0°03'52" E

LINE "C"
N 0°03'52" E

LINE "D"

US 27 (S.B.)

P.I. 1108+70.40"C"

LINE "PR-C-1"
N 0°03'52" E

P.C. 1107+73.11"PR-C-1"

P.O.T. 1106+96.20"PR-C-1"
P.C. 1106+93.41"C", 18.5' Rt.

(Riprap)

US 27 (N.B.)

N 25°58'22"W

P.I. 1110+65.25"PR-D-1"
[Monument, Type C Req'd.]

P.I. 1109+21.38"PR-C-1"

P.I. 1110+24.14"D"
[Monument, Type C Req'd.]

N 21°03'52" E

P.T. 1110+43.41"C"

STATE OF INDIANA

LEGEND

(K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
(15) Concrete Curb & Gutter
(17) Concrete Curb & Gutter, Modified
(26) Sodding, Nursery

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LINE "PR-D-1" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-D-1", EXCEPT AS SHOWN.

BOLT, JOSEPH H IV

1440

CURVE DATA
P.I. 1108+70.40"C"
Δ = 21°00'00" (RT)
D = 6°00'00"
T = 176.99'
L = 350.00'
R = 954.93'
E = 16.26'
e = N.C.

CURVE DATA
P.I. 1109+21.38"PR-C-1"
Δ = 21°00'00" (RT)
D = 7°09'43"
T = 148.27'
L = 293.22'
R = 800.00'
E = 13.62'
e = N.C.

BOND, THOMAS E JR

BOND, THOMAS EDWARD

1428
BARKER, DAVID A & DEBRA K

1414
WOOLUM, L J & BARBARA

P.V.I. 1108+30
EL. 1015.44
80' V.C.

P.V.I. 1109+50
EL. 1011.01
120' V.C.

Incidental Construction for Pavement & Curb Transition, Guardrail Installation & Grading

+84.86
EL. 1016.48

-2.30%

Common excavation for road reconstruction

Ex. Grade Line "PR-D-1"

Proposed Grade Line "PR-D-1"

+4.14%

BEGIN PROJECT 1592393
STA. 1109+00"PR-D-1"
EL. 1012.86

Earthwork Balance (HMA Option)		
Fill + 25%**	2,280	cys
Common Excavation**	32,140	cys
Waste	29,860	cys
Borrow*	1,000	cys
Pavement Removal	56,850	sys
Rock Excavation	700	cys
Unclassified Excavation	500	cys

*Apply 1,000 cys undistributed quantity for Borrow.
**Includes 1,076 cys for benching.

Earthwork Balance (PCCP Option)		
Fill + 25%**	500	cys
Common Excavation**	40,015	cys
Waste	39,515	cys
Borrow*	1,000	cys
Pavement Removal	56,850	sys
Rock Excavation	700	cys
Unclassified Excavation	500	cys

*Apply 1,000 cys undistributed quantity for Borrow.
**Includes 1,076 cys for benching.

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

Not for Construction

SEE SHEETS 11 & 12
FOR REFERENCE POINTS

Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
	1592393

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CURVE DATA
P.I. 1110+24.14"D"
Δ = 26°02'14" (LT)
D = 4°00'21"
T = 330.69'
L = 649.97'
R = 1,430.28'
E = 37.73'
e = N.C.

+50
STR. No. 13
C.B. B-15 & 69' of 12" Pipe Req'd.

CURVE DATA
P.I. 1110+65.25"PR-D-1"
Δ = 26°02'14" (LT)
D = 4°24' 27"
T = 300.57'
L = 590.77'
R = 1,300.00'
E = 34.30'
e = N.C.

+08.6 (Rng.) St. Appr., Req'd.
W = 36.1'

SEC. 8, T13N, R1W
WAYNE TWP.
WAYNE CO.

1115+00

CURVE DATA
P.I. 1117+18.51"D"
Δ = 26°31'53" (RT)
D = 5°59'39"
T = 225.35'
L = 442.62'
R = 955.85'
E = 26.20'
e = N.C.

(BEALLVIEW ADD.)
CITY OF RICHMOND
CITY OF RICHMOND
RICHMOND BOYS CLUB
STATE OF INDIANA
STATE OF INDIANA
S 8th Pl
South "N" St.
South "N" St.
App. Ex. R/W
App. Ex. L.A. R/W
App. ℄
Constr. Limits
Saw Cut
Pavement Remove
Remove
(Grass)
(Asph.)
(Asph. Over Conc.)
(12" Conc.)
MATCH LINE STA. 1111+00 "PR-D-1"
MATCH LINE STA. 1116+00 "D"
LINE "PR-D-1"
LINE "D"
N 25°58'22" W
US 27 (S.B.) / 8th St.
P.T. 1113+55.44"PR-D-1" (Bk.) =
P.O.T. 1113+55.44"D" (Ah.)
[Monument, Type B Req'd.]
P.T. 1113+43.41"D"
P.C. 1114+93.16"D"
[Monument, Type B Req'd.]
+00
STR. No. 16
Mod. C.B. B-15 & 200' of 12" Pipe Req'd.
+47.3, 68.5'
STR. No. 12
C.B. E-7 & 6' of 12" Pipe Req'd.
(Connect to Ex. Pipe)
+60, 50'
STR. No. 14
M.H. C-4 & 19' of 12" Pipe Req'd.
+08.6 (Rng.) St. Appr., Req'd.
W = 36.5'
+70.5, 55'
STR. No. 15
C.B. B-15 & 8' of 12" Pipe Req'd.
BIAS, WENDELL J. TRUSTEE
820 N. N St.
DEMUTH, DAVID M
(BEALLVIEW ADD.)
R 10'
R 25'
R 55'
R 20'
54.7'
47.5'
53.8'
35.97'
47.58'
17.38'
19'
8'
11'
2'
12'
30'
10'

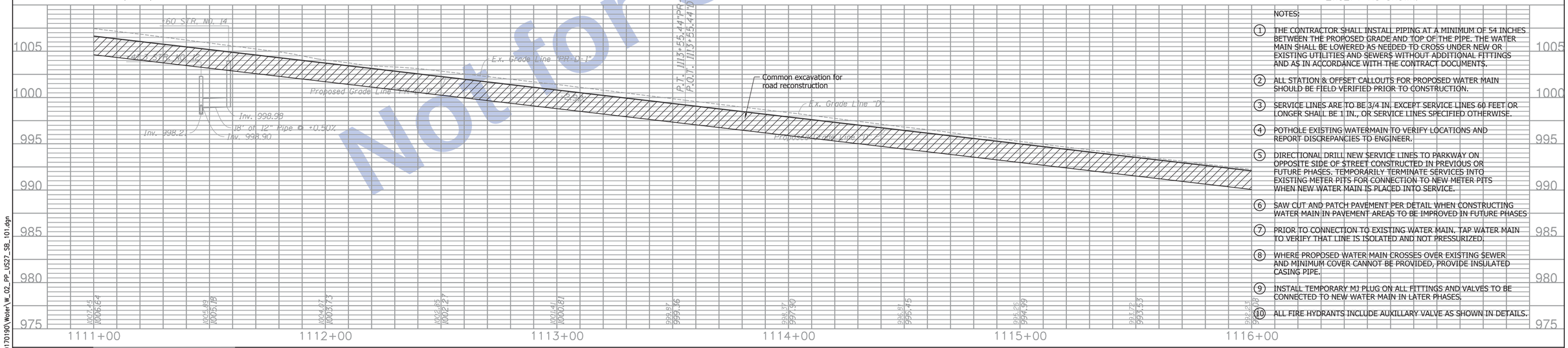
LEGEND
(E) HMA For Approaches (See Typical Sections)
(K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
(15) Concrete Curb & Gutter
(17) Concrete Curb & Gutter, Modified
(26) Sodding, Nursery

LEGEND
New Water Valve
New Fire Hydrant
New Meter Pit
Dual Meter Pit
Cap Existing Water Main
New Water Main
New Water Main Service
INCREASER / REDUCER
Retire Ex. Fire Hydrant

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LINE "PR-D-1" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-D-1", EXCEPT AS SHOWN.



NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

Not for Construction

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	4 of 47
CONTRACT	PROJECT
.	1592393

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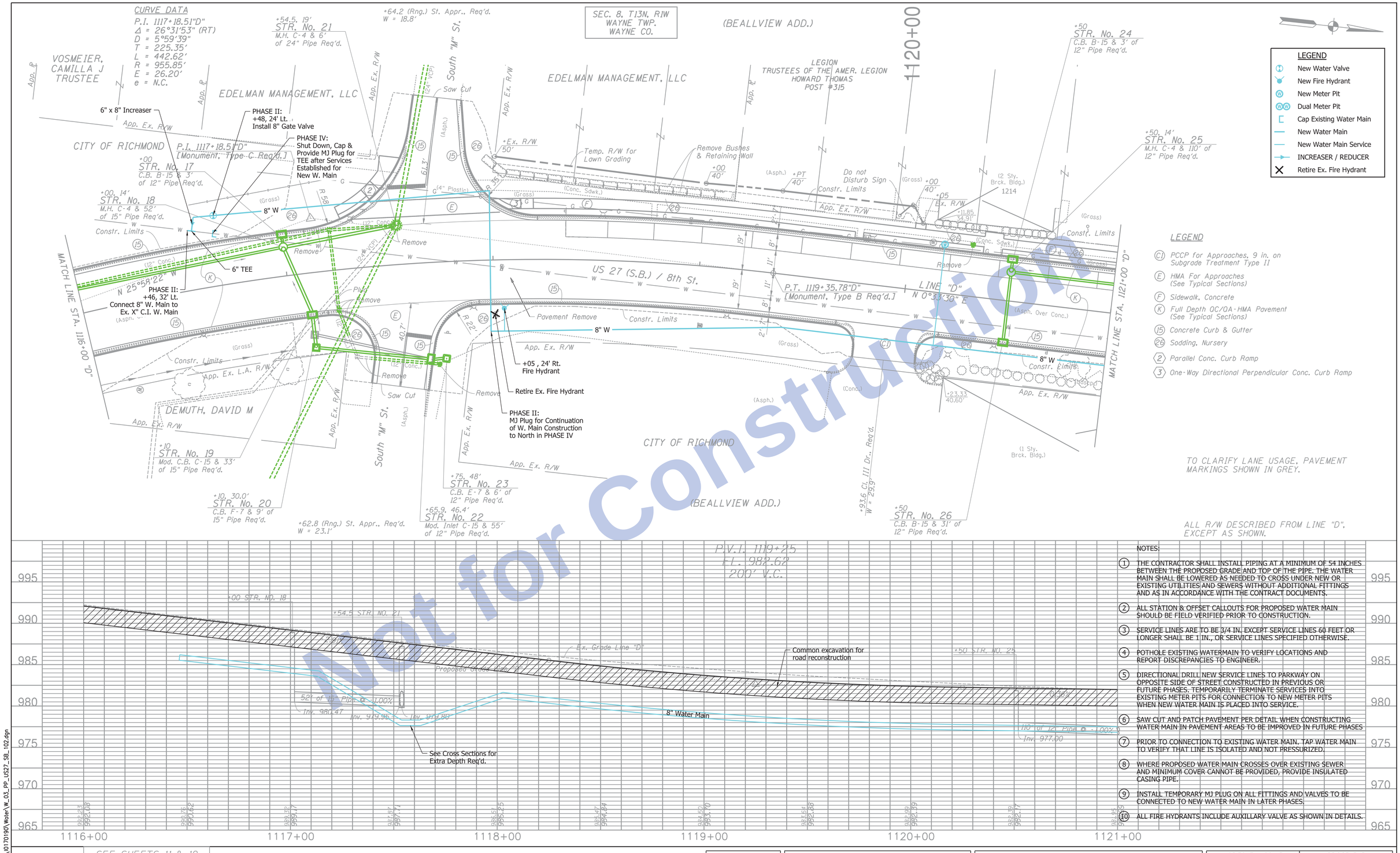

NOTES:

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Not for Construction

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
-	5 of 47
CONTRACT	PROJECT
-	1592393

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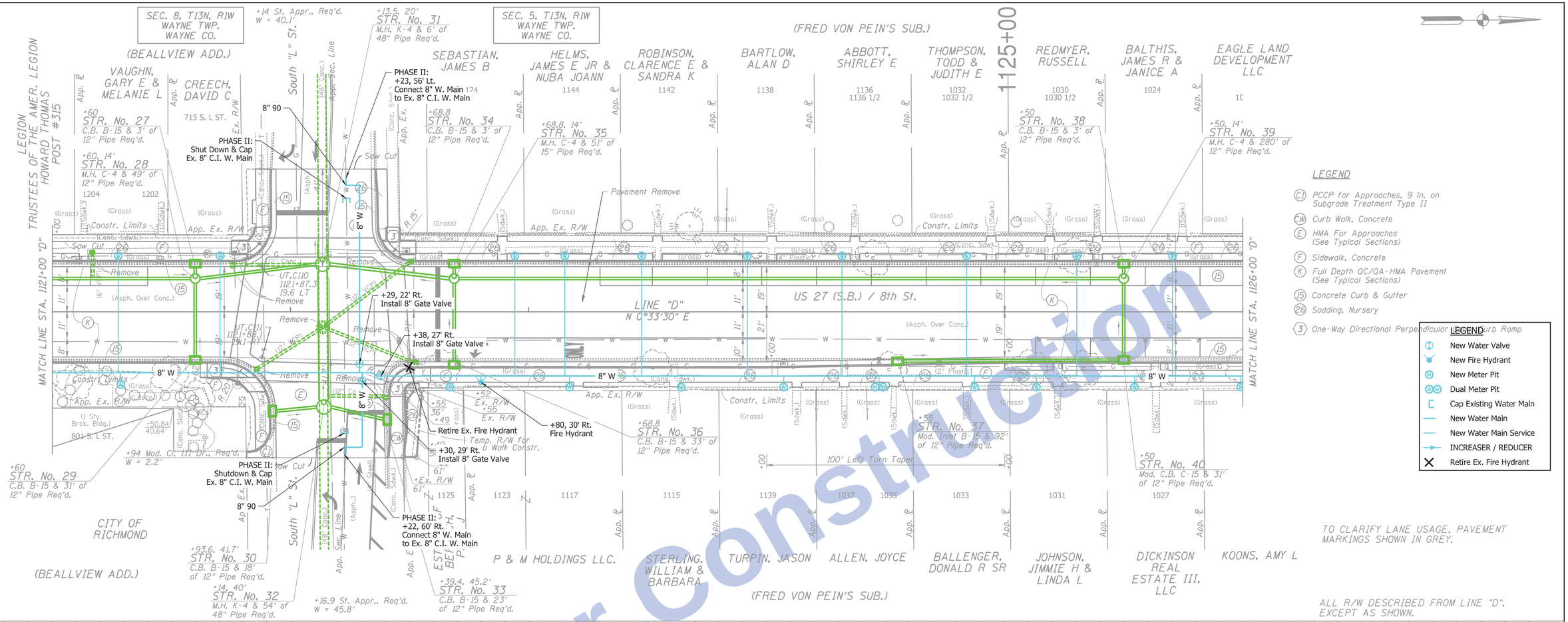

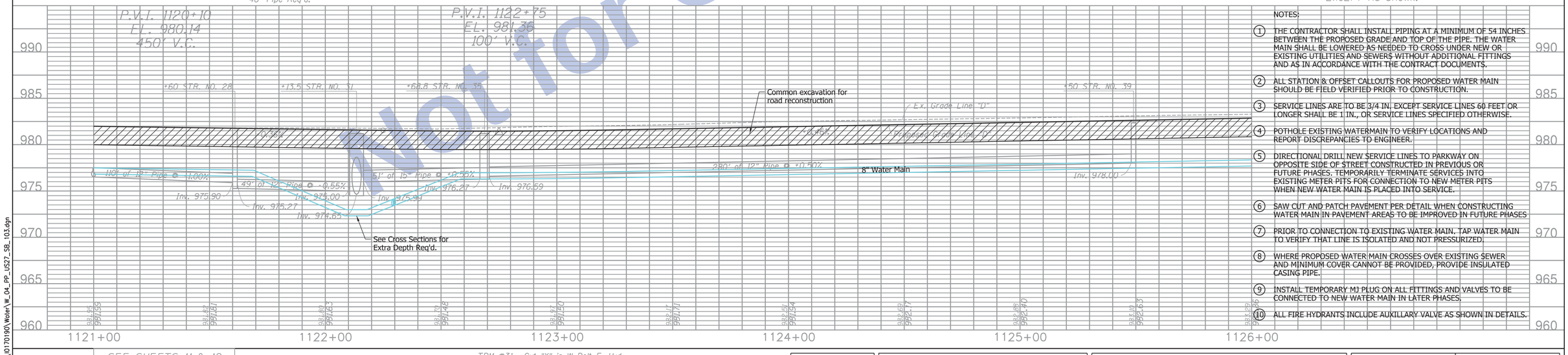

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

Not for Construction

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #31: Cut "X" in W Bolt F. Hyd. @ NE Cor. S "L" St. & S 8th St. Sta. 1122+49.7"D", 23.2' Rt. Adjusted El. = 983.2890

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	6 of 47
CONTRACT	PROJECT
.	1592393

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SEC. 5, T13N, R1W
WAYNE TWP.
WAYNE CO.

EAGLE LAND DEVELOPMENT LLC
PARKS, R. DANIEL
PARKS, RAYMOND D
(FRED VON PEIN'S SUB.)
713 S. J ST.
715 S. J ST.
PARKS, DANIEL
714 S. J ST.
MEDLIN, STEPHEN & MALINDA A
JENKINS, TERRY
JONES, STEVE JR & DORIS J
BAILEY, FLOYD L

1022 1/2 | 1020 | 1018 | 1000 | 918 | 916 | 910 | 908 | 90

1130+00

+55.3 St. Appr., Req'd.
W = 23.8'

+72.6 Mod. Cl. III Dr., Req'd.
W = 15.1'

App. Ex. R/W | App. ℄ | Alley | Saw Cut | Pavement Remove | Constr. Limits | South "J" St. | LINE "D" N 0°33'30" E | US 27 (S.B.) / 8th St.

(Asph.) | (Asph. Over Conc.) | (Conc. Sdwk.) | (Grass) | (Conc.) | (Plastic)

(1 1/2 Sty. Fr. Hse.) +96.65 21.73'
(2 Sty. Fr. Hse.) +67.78 41.66'
(1 1/2 Sty. Fr. Hse.) +56.88 41.82'

R 10' | R 18' | R 8' | R 8'

67' | 45'

8" W

+95, 27' Rt.
Install 8" Gate Valve

+55, 23' Rt.
Fire Hydrant

Retire Ex. Fire Hydrant

MATCH LINE STA. 1126+00 "D"

MATCH LINE STA. 1131+00 "D"

1023 | 1019 | 1019 1/2 | 1015 | 1011 | 1007 | 1003 | 1001 | 921 | 919 | 913 | 909 | 903

KOONS, AMY L
HAZELBAKER, DOUGLAS C JR
GARRETT, CHARLES B JR & JOANN
WILSON, BRYAN SCOTT & MELISSA JANE
RAMSEY, GERALD A
KIRKMAN, WILLIAM & GARY CARPENTER JTWROS
T-SQUARE PROPERTIES, LLC
THURSTON, FELICIA
HALL, PATSY S & BERLON SPARKS JTWRS
JOHNSON, FELICIA
JOHNSON, JAMES W & FELICIA L

(FRED VON PEIN'S SUB.)
(GEO. H. KNOLLENBERG'S SUB)

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

ALL R/W DESCRIBED FROM LINE "D", EXCEPT AS SHOWN.

LEGEND

- (C1) PCCP for Approaches, 9 in. on Subgrade Treatment Type II
- (E) HMA For Approaches (See Typical Sections)
- (F) Sidewalk, Concrete
- (K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
- (15) Concrete Curb & Gutter
- (26) Sodding, Nursery
- (1) Perpendicular Conc. Curb Ramp
- (3) One-Way Directional Perpendicular Conc. Curb Ramp

LEGEND

- New Water Valve
- New Fire Hydrant
- (W) New Meter Pit
- (WW) Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

Not for Construction

+56.2 St. Appr., Req'd.
W = 23.8'

P.V.I. 1127+50
El. 983.55
100' V.C.

P.V.I. 1128+50
El. 984.37
100' V.C.

-2.82%

Ex. Grade Line "D"

Proposed Grade Line "D"

+4.43%

-1.00%

Common excavation for road reconstruction

8" Water Main

990 | 985 | 980 | 975 | 970 | 965 | 960

1126+00 | 1127+00 | 1128+00 | 1129+00 | 1130+00 | 1131+00

983.29 982.86 | 983.53 983.09 | 983.78 983.32 | 984.05 983.59 | 984.33 983.86 | 984.08 984.15 | 983.87 983.87 | 983.53 983.37 | 982.95 982.87 | 982.38 982.37 | 982.91 982.87

NOTES:

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10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG | DRAWN: MP
CHECKED: JDD | CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
-	7 of 47
CONTRACT	PROJECT
-	1592393

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SEC. 5, T13N, R1W
WAYNE TWP.
WAYNE CO.

*50, 27'
STR. No. 41
M.H. C-4 & 320' of 12" Pipe Req'd.

*50
STR. No. 42
C.B. C-15 & 4' of 12" Pipe Req'd.

BAILEY, FLOYD L 4
RICHMOND TJ-1 LLC 900
DISCOUNT HOME IMPROVEMENT LLC 820
KIDD, JOHNNY & VICTOR KIDD JTWROS 818
K T PROPERTY GROUP LLC 816
VHB PROPERTIES INC 814
PATTERSON, ETHEL M 810
PREMIER INVESTMENT GROUP 808 806
CABALLERO, BRENITA L 800

App. R/W

(1 1/2 Sty. Fr. Hse.)
(1 1/2 Sty. Fr. Hse.)
(1 1/2 Sty. Fr. Hse.)
(2 Sty. Fr. Hse.)

+98.80
41.73
+87.06
40.63
+14.37
41.62
+05.63
41.70
+51.96
39.95

App. Ex. R/W

Pavement Remove
Constr. Limits
Saw Cut

MATCH LINE STA. 1131+00 "D"

US 27 (S.B.) / 8th St.

LINE "D"
N 0°33'30" E

MATCH LINE STA. 1136+00 "D"

8" W

+73, 31' Rt.
Install 8" Gate Valve

+77, 27' Rt.
Install 8" Gate Valve

+15, 23' Rt.
Fire Hydrant

Shutdown & Cap
Ex. 6" C.I.W. Main

Move Services on South I St.
From Ex. 3" C.I. Pipe to Ex. 6" C.I. on South I St. Shut Down & Cap Ex. 3" C.I. Pipe After Moving Services. Coordinate with Engineer.

*80
STR. No. 46
Inlet B-15 & 39' of 12" Pipe Req'd.

*06, 22.9'
STR. No. 400
Ex. M.H. & Adj. Casting to Grade Req'd.

*00.7, 31.2'
STR. No. 500
Ex. M.H. & Adjust Casting to Grade Req'd.

8" TEE (Typ.) with MJ Plug for Connection to Future Phases

Phase II:
Shut Down & Cap Ex. 6" W. Main

*92.3, 58.2'
STR. No. 47
C.B. B-15 & 8' of 12" Pipe Req'd.

*05.1, 58'
STR. No. 48
M.H. J-4 & 6' of 36" Pipe Req'd.

*81.1 St. Appr., Req'd.
W = 25.8'

*07.3 St. Appr., Req'd.
W = 24.7'

PHASE IV:
+70, 50' Rt.
Connect 8" W. Main to Ex. 6" C.I.W. Main

PHASE II:
Connect 8" W. Main to Ex. 6" C.I.W. Main

PHASE II:
+17, 66' Rt.
Connect 8" W. Main to Ex. 6" C.I.W. Main

*06.6, 37.5'
STR. No. 401
Ex. M.H. & Adj. Casting to Grade Req'd.

*06.6, 25'
STR. No. 49
M.H. K-4 & 7' of 36" Pipe Req'd.

*72, 27'
STR. No. 44
M.H. C-4 & 30' of 15" Pipe Req'd.

*72
STR. No. 45
Mod. C.B. C-15 & 4' of 12" Pipe Req'd.

PHASE II:
Shut Down & Cap Ex. 6" W. Main

1135+00

*06.4 St. Appr., Req'd.
W = 24.9'

PHASE II:
+17, 62' Lt.
Connect 8" W. Main to Ex. 6" C.I. W. Main

+17, 62' Lt.
90

6" x 8" Increaser

*55, 27'
STR. No. 51
M.H. C-4 & 44' of 18" Pipe Req'd.

*55
STR. No. 52
C.B. C-15 & 4' of 12" Pipe Req'd.

(BAUER AND GLEICH'S SUB)

MC MILLER, JUNE E & ALICE L DELONEY JT/T/W/R/S/NT/T/C

750

Remove
Constr. Limits

+25, 18' Rt.
Install 8" Gate Valve

+44, 23' Rt.
Fire Hydrant

Retire Ex. Fire Hydrant

+31, 27' Rt.
Install 8" Gate Valve

+25, 33' Rt.
Install 8" Gate Valve with MJ Plug for Connection to Future Phases

6" x 8" Increaser

+17, 64' Lt.
90

751 749 747

(BAUER AND GLEICH'S SUB)

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LEE, RICHARD

ALL R/W DESCRIBED FROM LINE "D", EXCEPT AS SHOWN.

JOHNSON, JAMES W & FELICIA L

WHITE, DEREK E & DONNA M

BELL, MICHAEL R & BERNADINE BELL J/T/W/R/S

ZURWELL, JOSEPH LEE & SUSAN LEE

K T PROPERTY GROUP LLC

CORDELL, WILLIAM E

STOLLE, EARL E & ANNA L

BEGIN SCHWEGMAN DISTRICT

(GEO. H. KNOLLENBURG'S SUB.)

CROSS, DONALD L & TAMI SUE

South "I" St.

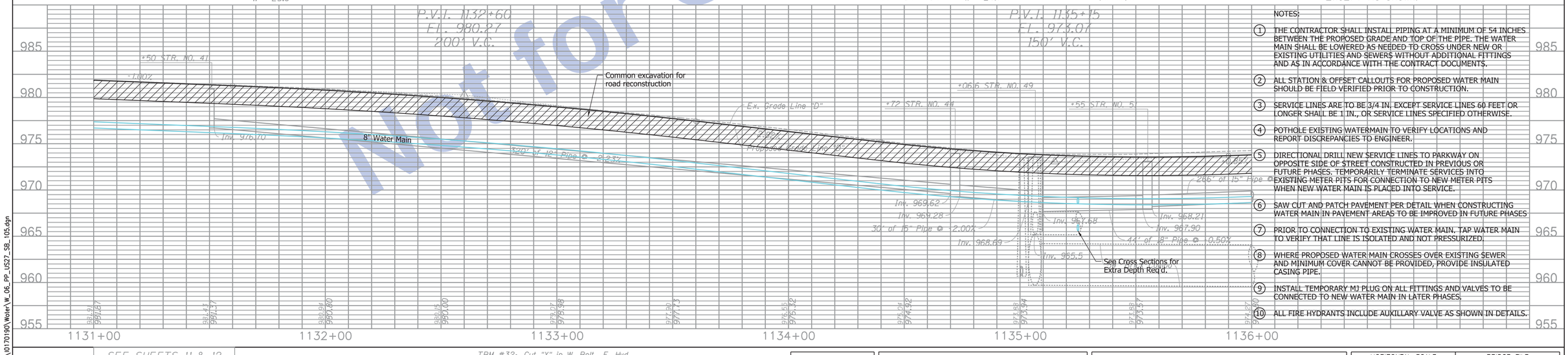
South "H" St.

LEGEND

- (C) PCCP for Approaches, 6 in. on Subgrade Treatment Type II
- (E) HMA For Approaches (See Typical Sections)
- (F) Sidewalk, Concrete
- (F1) Brick Sidewalk [Remove Star Brick, Clean & Re-lay] (See Typical Section Sheet 5 for Detail)
- (K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
- (15) Concrete Curb & Gutter
- (26) Sodding, Nursery
- (1) Perpendicular Conc. Curb Ramp
- (3) One-Way Directional Perpendicular Conc. Curb Ramp

LEGEND

- New Water Valve
- New Fire Hydrant
- (W) New Meter Pit
- (WW) Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant



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SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #32: Cut "X" in W. Bolt F. Hyd.
Sta. 1135+39.13"D", 22.96' Rt.
Adjusted El. = 975.7385

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	8 of 47
CONTRACT	PROJECT
	1592393

Not for Construction

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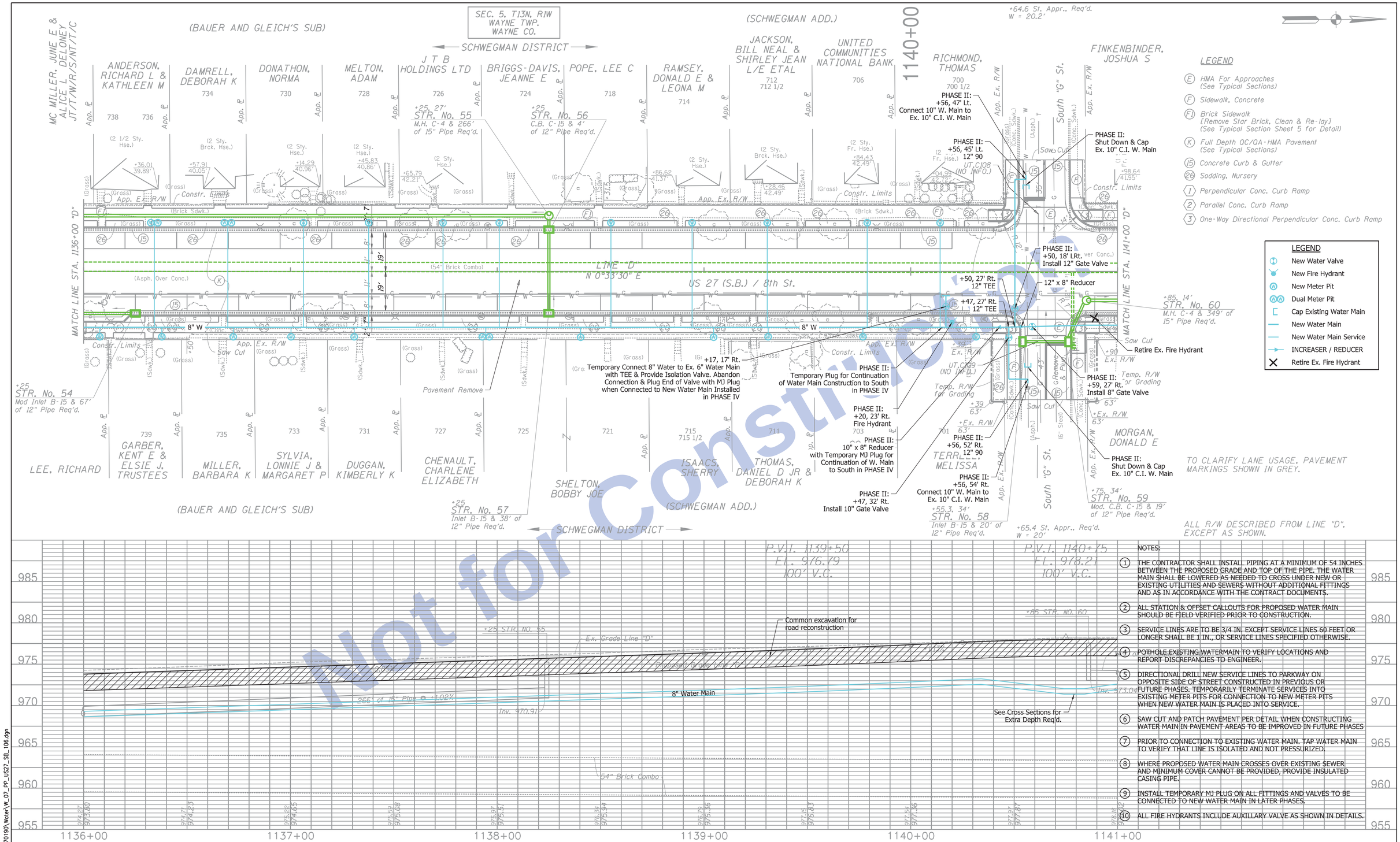

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Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	9 of 47
CONTRACT	PROJECT
.	1592393

Not for Construction

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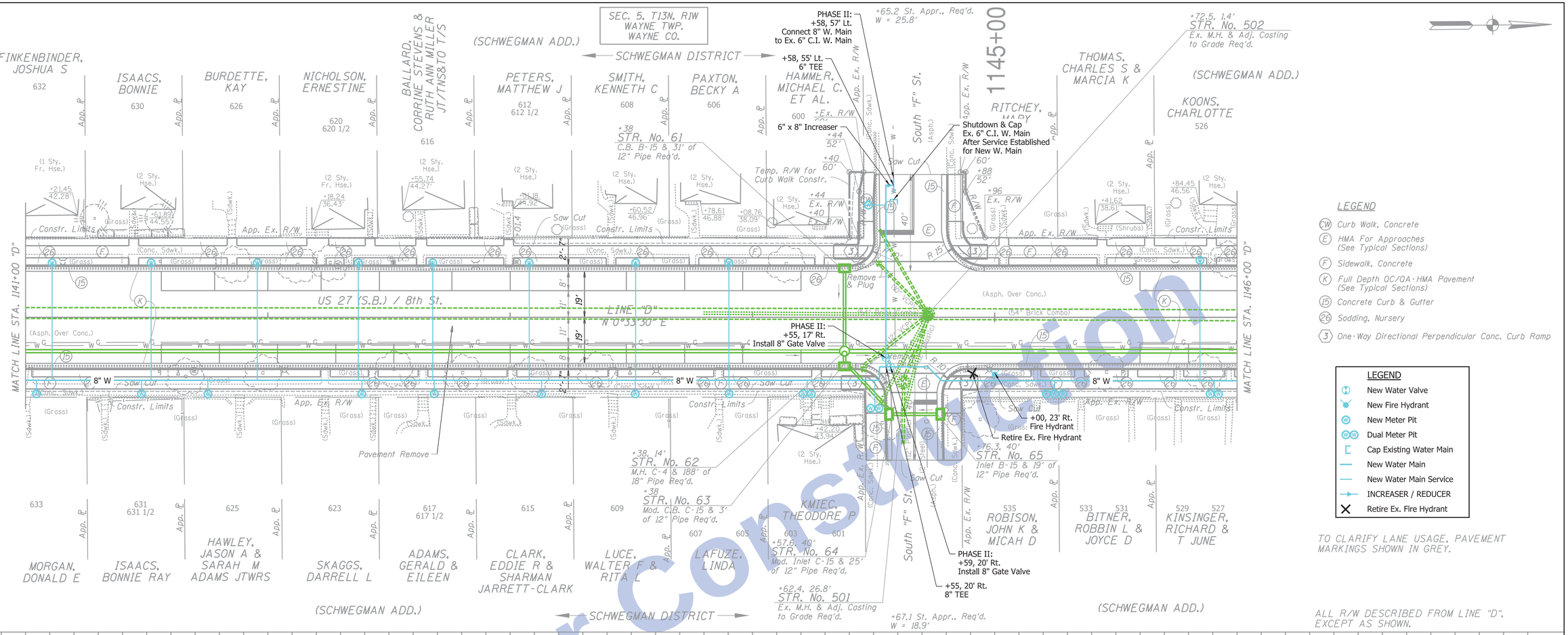

LEGEND

- (CW) Curb Walk, Concrete
- (E) HMA For Approaches (See Typical Sections)
- (F) Sidewalk, Concrete
- (K) Full Depth OC/QA-HMA Pavement (See Typical Sections)
- (15) Concrete Curb & Gutter
- (26) Sodding, Nursery
- (3) One-Way Directional Perpendicular Conc. Curb Ramp

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

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Not for Construction

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG	DRAWN: MP
CHECKED: JDD	CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	10 of 47
CONTRACT	PROJECT
.	1592393

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END SCHWEGMAN DISTRICT | BEGIN OLD RICHMOND DISTRICT

BEGIN PROJECT EXCEPTION
STA. 1148+20"D"

END PROJECT EXCEPTION
STA. 1150+90"D"

1150+00

SEC. 5, T13N, R1W
WAYNE TWP.
WAYNE CO.

(SAMUEL W. SMITH'S ADD)

(SCHWEGMAN ADD.)

KOONS, CHARLOTTE

SPARKS, MARK S & CHERRIE K SPARKS

FELDHAUS, JOHN P

BALLENGER, TERRY

CASEBOLT, STEVEN W INC

STEVEN W. CASEBOLT, INC. 721 S. E ST.

WAYNE COUNTY FARM BUREAU COOPERATIVE ASSOCIATION, INC. 498

GIBSON, JEFFREY P & HELEN

+30 STR. No. 66
C.B. B-15 & 31' of 12" Pipe Req'd.

+39.8 STR. No. 69
C.B. B-15 & 31' of 12" Pipe Req'd.

+80.3, 12.2' STR. No. 504
Ex. M.H. & Adj. Casting to Grade Req'd.

+85, 17.3' STR. No. 402
Ex. M.H. & Adj. Casting to Grade Req'd.

+51 Mod. Cl. I Dr., Req'd. W = 8'

+76 Cl. III Dr., Req'd. W = 18.1'

522 | 518 | 518 1/2 | 516 | 512 | 510 | 500

Temp. R/W for Drive Constr.

Ex. R/W

Constr. Limits

App. Ex. R/W

Alley

Remove

Saw Cut

Do Not Disturb Concrete Slab

Plug

Ex. 8" W

PHASE II:
+12, 13' Rt.
Connect 8" W. Main to Ex. 8" D.I.W. Main Installed in E St. W. Main Improvements

N 6°33'30" E

8" TEE

+10, 23' Rt.
Install 8" Gate Valve

Shut Down & Cap Ex. Water Main After Service Established for New Water Main

8" W

Ex. 12" W

South "E" St.

US 27 (S.B.) / 8th St.

MATCH LINE STA. 1146+00 "D"

MATCH LINE STA. 1151+00 "D"

+30, 14' STR. No. 67
M.H. C-4 & 106' of 18" Pipe Req'd.

+39.8, 14' STR. No. 70
M.H. C-4 & 81' of 18" Pipe Req'd.

Pavement Remove

+75.2, 20.8' STR. No. 503
Ex. M.H. & Adj. Casting to Grade Req'd.

+22, 14' STR. No. 72
Ex. M.H.

801 S. E ST.
803 S. E ST.
803 1/2 S. E ST.
805 S. E ST.
805 1/2 S. E ST.

JOHNSON, OVA & MARILYN S.

800 S. E ST.
802 S. E ST.
804 S. E ST.
806 S. E ST.
ANDREW GAYDOSH

+25, 14' STR. No. 73
Ex. M.H. & No Change Req'd.

Incidental Construction for Sidewalk Construction

439
439 1/2
TAMMY DONALDSON & ERIC DONALDSON

435
GEVALT ENTREPRISES, LLC

WALLS, THOMAS A & JESSICA E

KINSINGER, RICHARD & T JUNE

525 | 523 | 521 | 519 | 517 | 515 | 511

ANDERSEN, JOHN N & RESSONYIA A

BISHOP, JAMES FLOYD & SHIRLEY M

BITNER, ROBBIN L & JOYCE D

COOK, ROBERT P

+39.8 STR. No. 71
C.B. B-15 & 3' of 12" Pipe Req'd.

+74.5 Cl. III Dr., Req'd. W = 15'

+30 STR. No. 68
C.B. B-15 & 3' of 12" Pipe Req'd.

(SCHWEGMAN ADD.)

(POE AND HITTLE'S ADD)

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

ALL R/W DESCRIBED FROM LINE "D", EXCEPT AS SHOWN.

LEGEND
- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

LEGEND
- (C) PCCP for Approaches, 6 in. on Subgrade Treatment Type II
- (C1) PCCP for Approaches, 9 in. on Subgrade Treatment Type II
- (F) Sidewalk, Concrete
- (F1) Brick Sidewalk [Remove Star Brick, Clean & Re-lay] (See Typical Section Sheet 5 for Detail)
- (K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
- (15) Concrete Curb & Gutter
- (26) Sodding, Nursery
- (Z) Parallel Conc. Curb Ramp

Not for Construction

P.V.I. 1147+70
El. 974.52
150' V.C.

BEGIN PROJECT EXCEPTION
STA. 1148+20"D"
EL. 975.23
(MATCH EX. EL.)

END PROJECT EXCEPTION
STA. 1150+90"D"
EL. 975.52
(MATCH EX. EL.)

Common excavation for road reconstruction

+30 STR. NO. 67 | +39.8 STR. NO. 70 | Ex. Grade Line "D" | +22 STR. NO. 72 | +26 STR. NO. 73

8" Water Main

106' of 18" Pipe @ +0.62%

81' of 18" Pipe @ +0.51%

188' of 18" Pipe @ +0.53%

Inv. 970.37 | Inv. 969.82 | Inv. 969.41

54" Brick Combo

Ex. 8" San. Sewer

985 | 980 | 975 | 970 | 965 | 960 | 955

1146+00 | 1147+00 | 1148+00 | 1149+00 | 1150+00 | 1151+00

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #34: Cut "X" in W Bolt F. Hyd.
Sta. 1149+58.60"D", 24.19' Lt.
Adjusted El. = 977.7936

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG | DRAWN: MP
CHECKED: JDD | CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393

SURVEY BOOK	SHEETS
	11 of 47
CONTRACT	PROJECT
	1592393

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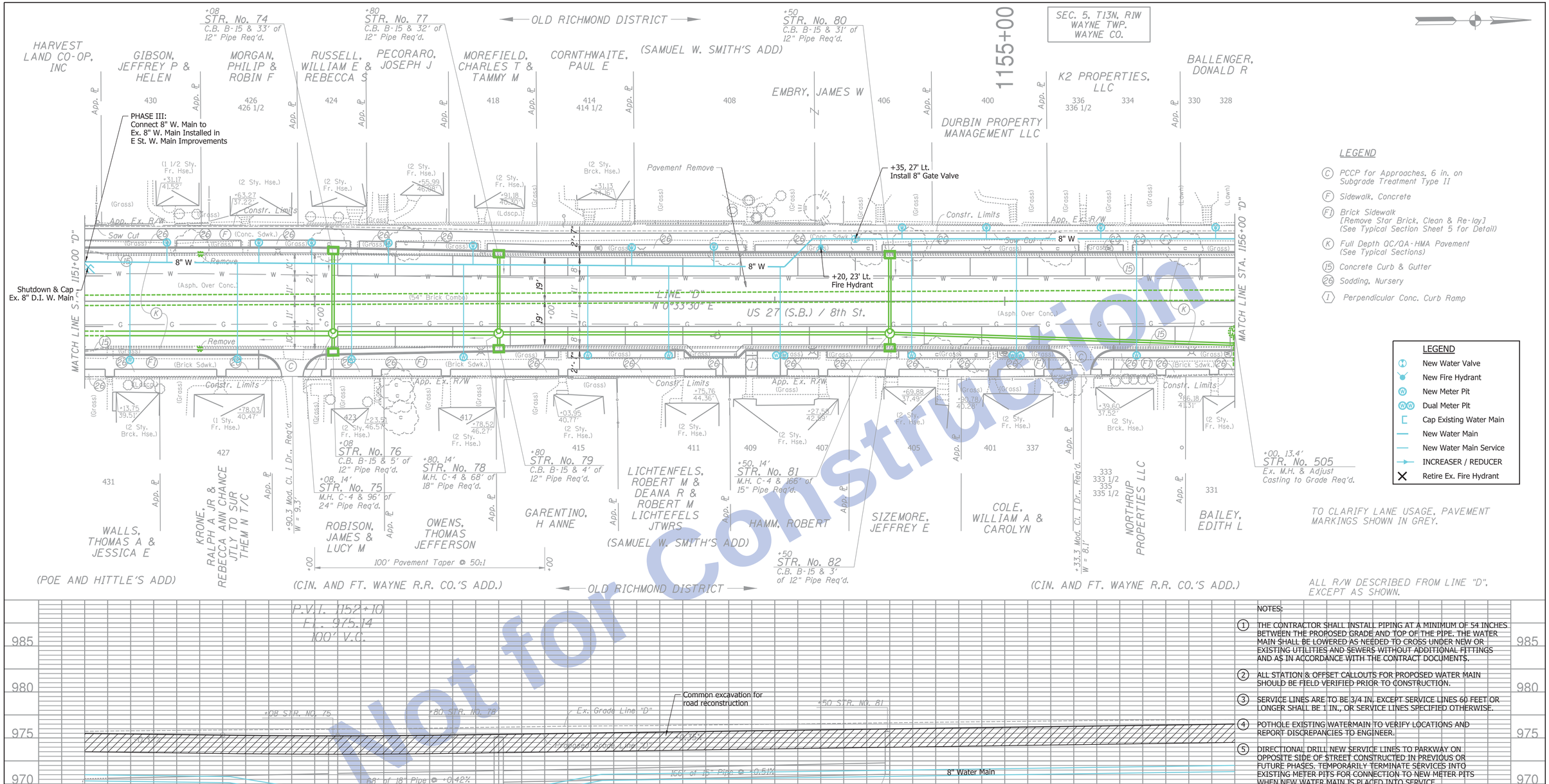

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
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10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP

CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
-	12 of 47
CONTRACT	PROJECT
-	1592393

Not for Construction

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SEC. 5, T13N, R1W
WAYNE TWP.
WAYNE CO.

OLD RICHMOND DISTRICT

(SAMUEL W. SMITH'S ADD)

+72.9 St. Appr.. Req'd.
W = 12.9'

+00 STR. No. 86
Mod. C.B. C-15 & 30" of 12" Pipe Req'd.

(SAMUEL W. SMITH'S ADD)

+52, 0.9' STR. No. 508
Ex. M.H. & Adj. Casting to Grade Req'd.

1160+00

BALLENGER, DONALD R

NEWTON, JIMMY L & PATSY J — 326 / 324

BALLENGER, DONALD R SR — 322 / 322 1/2

ACTON, JOYCE W — 320

HILLARD, CATHY S — 316

BROWN, DAVID A & STACY M — 312

RONAN, CHARLES W & DOROTHY B — 308

BOSELL, LARRY H — 248

JENKINS, TERRY L & DEBORAH J

HUTZELL, WILLIAM J SR & TONYA L

SICKMANN, ROBERT B — 234 / 234 1/2

INGLIS, ALAN O & MARGARET T REVOCABLE LIVING TRUST — 230 / 230R / 230 1/2

236 / 236 1/2

+50 STR. No. 83
Inlet B-15 & 38' of 12" Pipe Req'd.

+72.4, 4' STR. No. 506
Ex. M.H. & Adjust Casting to Grade Req'd.

PHASE II:
+92, 27' Lt.
8" Gate Valve with MJ Plug to South for Connection to New W. Main in PHASE III

+03, 31' Lt.
Fire Hydrant

8" TEE

MJ Plug (After Shut Down)

Shut Down & Cap after PHASE II, III & IV W. Main Work Between South E & North C St.

6" x 8" Increaser

6" TEE

Retire Ex. Fire Hydrant

Pavement Remove

Temp. R/W for Grading

Remove Retaining Wall

South "C" St.

MATCH LINE STA. 1156+00 "D"

MATCH LINE STA. 1161+00 "D"

8" W

LINE "D"
N 0°33'50" E

US 27 (S.B.) / 8th St.

(54" Brick Combo)

(Asph. Over Conc.)

Constr. Limits

App. Ex. R/W

Remove Plug

Shut Down, Cap & Provide MJ Plug for TEE after Services Established for New W. Main

Temp. R/W for Sidewalk Constr.

Do not Disturb Sign, Flag Pole, Ref. Wall, & Hand Rail

+00, 13.4' STR. No. 505
See Previous Sheet

+50 STR. No. 84
Mod. C.B. C-15 & 197' of 12" Pipe Req'd.

329 / 327 / 325 1/2 / 325 — BAILEY, EDITH L — SEKSE, DEBBIE — ROBINSON, LESTER D & JANET S

321 / 321 1/2 — NORTHRUP PROPERTIES LLC

317 — PRICE, AMBER

315 — SHOOK, MARY L

309 — CHRISTODOULOU, ASTHANOSIOS & MILDRED

307 / 305 — GRAY, DOUGLAS A & LISA A

311 — BURNS, SUSAN C, TRUSTEE OF THE SUSAN C BURNS LIVING TRUST (301 S. 8TH ST.)

235 / 235 1/2 — HILLARD, TERRY & CATHY

233 — PHENIS, KEITH E & HERMAN E. JT/TNS/W/R/S

(CIN. AND FT. WAYNE R.R. CO.'S ADD.)

(CHARLES W. ARNOLD'S ADD.)

+78.5, 12' STR. No. 507
Ex. M.H. & Adj. Casting to Grade Req'd.

+00 STR. No. 87
Mod. Inlet C-15 & 38' of 12" Pipe Req'd.

+74.9, 14.3' STR. No. 509
Ex. M.H. & Adj. Casting to Grade Req'd.

+86.7, 31.5' STR. No. 510
Ex. M.H. & Adj. Casting to Grade Req'd.

+30 STR. No. 88
Mod. Inlet B-15 & 127' of 12" Pipe Req'd.

+95 St. Appr.. Req'd.
W = 23.6'

OLD RICHMOND DISTRICT

(WILLIAM A. BICKLE'S ADD.)

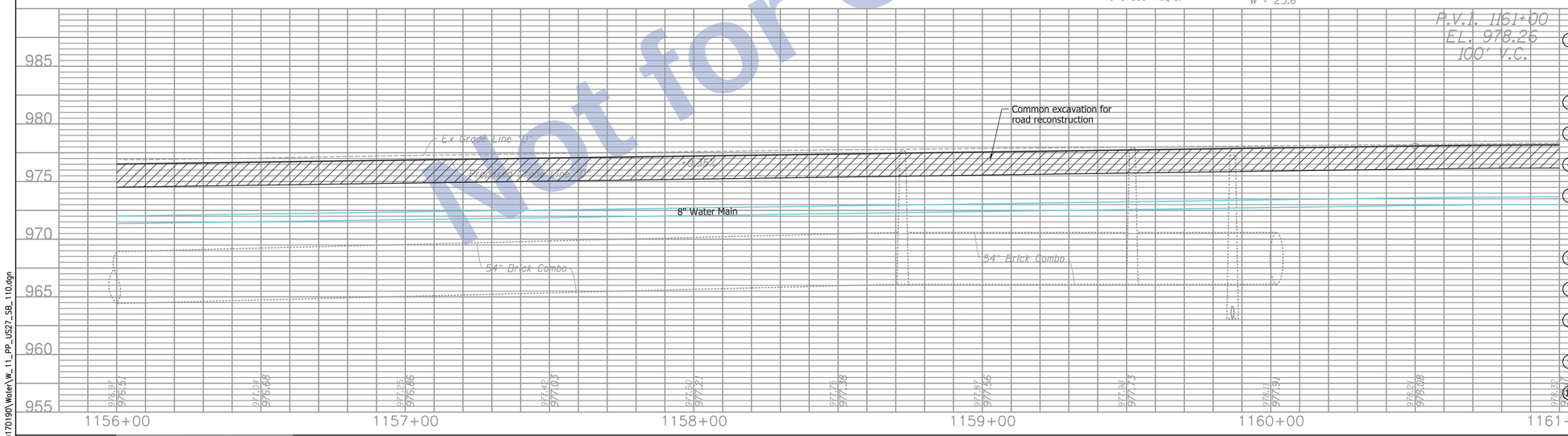
ALL R/W DESCRIBED FROM LINE "D", EXCEPT AS SHOWN.

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LEGEND

- (C) PCCP for Approaches, 6 in. on Subgrade Treatment Type II
- (E) HMA for Approaches (See Typical Sections)
- (F) Sidewalk, Concrete
- (F1) Brick Sidewalk (Remove Star Brick, Clean & Re-lay) (See Typical Section Sheet 5 for Detail)
- (K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
- (15) Concrete Curb & Gutter
- (26) Sodding, Nursery
- (2) Parallel Conc. Curb Ramp
- (3) One-Way Directional Perpendicular Conc. Curb Ramp

LEGEND
- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant



NOTES:

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10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #35: Cut "X" in N. Bolt of F. Hyd.
Sta. 1158+20.05'D', 24.30' Lt.
Adjusted El. = 979.2926

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	·
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
·	13 of 47
CONTRACT	PROJECT
·	1592393

Not for Construction

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SEC. 5, T13N, R1W
WAYNE TWP.
WAYNE CO.

OLD RICHMOND DISTRICT

HILLARD, CATHY S — 228, 228 1/2

LODGE VFW POST 1108 — App. R/

LEGION OF FOREIGN WARS OF THE UNITED STATES #1108 — +06 Cl. III Dr., Req'd. W = 20'

LEGION KIRK LITTLE POST 1108 VETERANS OF FOREIGN WARS ETAL — 216 (1 1/2 Sty. Fr. Bldg.) — +82 Mod. Cl. III Dr., Req'd. W = 14'

PADGETT, TERRY B (210 S. 8TH ST.) — 212, 212 1/2 (2 Sty. Brck. Bldg.), 210, 210 1/2 — +59.4 Mod. Cl. III Dr., Req'd. W = 14.7'

ADAM H BAP: SENIOR HOUSING LIMITED PARTNERSHIP (200 S. 8TH ST.) — 200

+64.7 St. Appr., Req'd. W = 13.7'

1165+00

MUTUAL INSURANCE AGENCY OF RICHMOND INC — 134, 134 1/2

K2 PROPERTIES, LLC (126 S. 8TH ST.) — 126, 128, 130, 132

+46.5 Mod. Cl. III Dr., Req'd. W = 14.7'

South "B" St.

PHASE II: +63, 50' Lt. Connect 12" W. Main to Ex. 12" C.I. W. Main

Shut Down, Cap & Provide MJ Plug

+30 STR. No. 90 C.B. B-15 & 31' of 12" Pipe Req'd.

+69, 14' Lt. 12" TEE

12" x 8" Reducer

Retire Ex. Fire Hydrant

+85, 23' Lt. Fire Hydrant

PHASE II: +69, 20' Lt. Install 12" Gate Valve

12" 90

+71, 14' Lt. 12" TEE

12" x 8" Reducer

PHASE II: +80, 14' Lt. Install 8" Gate Valve

PHASE II: +71, 7' Lt. Install 12" Gate Valve

Pavement Remove

Constr. Limits

App. Ex. R/W

Saw Cut

(Conc. Sdwk.)

8" W

P.I. H64+36.77"D"
Δ = 0°02'23" RT
No Curve, Run

US 27 (S.B.) / 8th St.

LINE "D" N 0°33'30" E

N 0°35'53" E

MATCH LINE STA. 1161+00 "D"

MATCH LINE STA. 1166+00 "D"

+30, 14 STR. No. 91 M.H. J-4 & 26' of 15" Pipe Req'd.

Remove & Plug

Temp. R/W for Sidewalk Constr.

Temp. R/W for Drive Constr.

+95 STR. No. 89 Mod C.B. B-15 & 131' of 12" Pipe Req'd.

+30 STR. No. 92 C.B. B-15 & 3' of 12" Pipe Req'd.

+43.3, 38.3' STR. No. 93 C.B. B-15 & 11' of 12" Pipe Req'd.

Shut Down, Cap & Provide MJ Plug

PHASE II: +64, 59' Lt. Connect 12" W. Main to Ex. 12" C.I. W. Main

+55.6 St. Appr., Req'd. W = 19.2'

+67.2 Mod. Cl. III Dr., Req'd. W = 20.7'

+67.7, 38' STR. No. 95 C.B. B-15 & 7' of 12" Pipe Req'd.

12" 90

+58, 30' STR. No. 94 M.H. L-4 & 3' of 72" Pipe Req'd.

+70 STR. No. 96 Mod. Inlet B-15 & 97' of 12" Pipe Req'd.

+16.7 Mod. Cl. III Dr., Req'd. W = 15.9'

+76 Mod. Cl. III Dr., Req'd. W = 13.8'

PHENIS, KEITH E & HERMAN E. JT/TNS/W/R/S — (CHARLES W. ARNOLD'S ADD.)

LEGION VETERANS OF FOREIGN WARS KIRK LITTLE POST 1108

LEGION VETERANS FOREIGN WARS KIRK LITTLE POST 1108, INC.

SMYER, DAVID K & CONNIE J — (M.G. ARNOLD'S ADD.)

RICHMOND AUTOMOTIVE SUPPLY CORP. (NAPA)

LODGE UNITED ANCIENT ORDER OF DRUIDS GROVE #29 INC,

(C.W. STARR'S 6TH ADD.)

END OLD RICHMOND DISTRICT

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

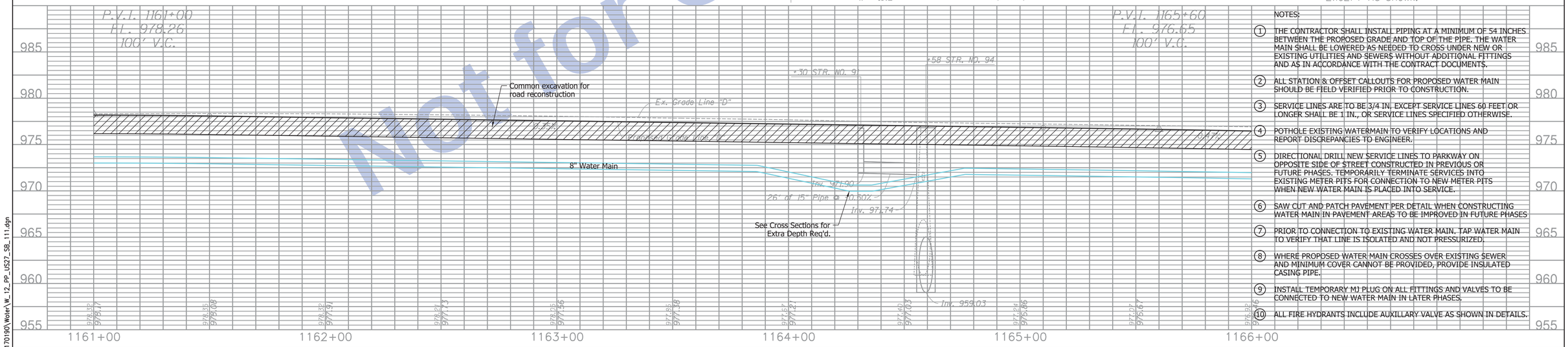
ALL R/W DESCRIBED FROM LINE "D", EXCEPT AS SHOWN.

LEGEND

- (C1) PCCP for Approaches, 9 in. on Subgrade Treatment Type II
- (D1) HMA for Approaches 165#/syd. HMA Surface on 275#/syd. HMA Intermediate on 880#/syd. HMA Base on Subgrade Treatment Type II
- (E) HMA For Approaches (See Typical Sections)
- (F) Sidewalk, Concrete
- (K) Full Depth OC/OA-HMA Pavement (See Typical Sections)
- (15) Concrete Curb & Gutter
- (26) Sodding, Nursery
- (2) Parallel Conc. Curb Ramp
- (3) One-Way Directional Perpendicular Conc. Curb Ramp

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant



NOTES:

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SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	14 of 47
CONTRACT	PROJECT
	1592393

Not for Construction

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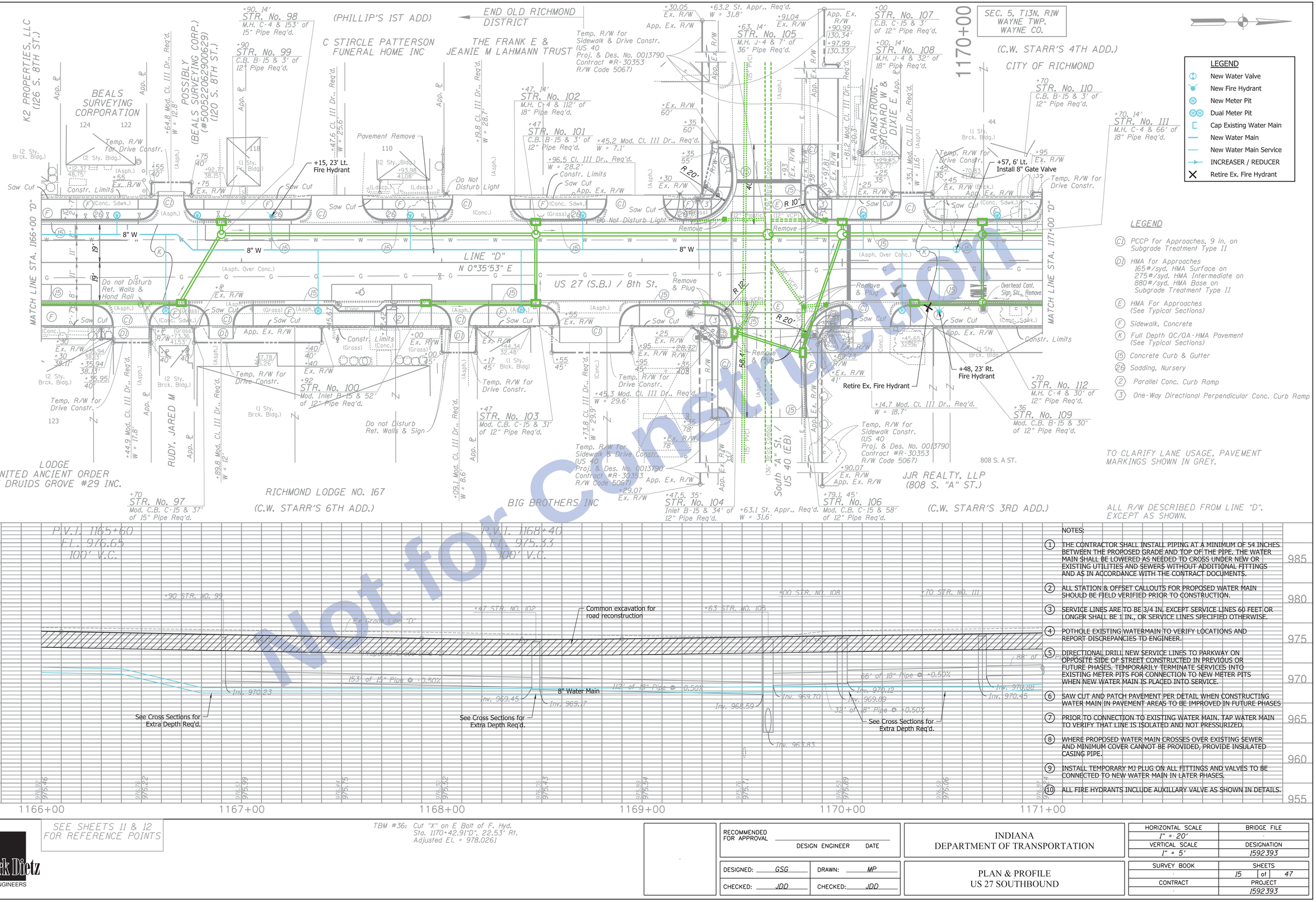

Not for Construction

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #36: Cut "X" on E Bolt of F. Hyd. Sta. 1170+42.91"D", 22.53' Rt. Adjusted El. = 978.0261

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP

CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	15 of 47
CONTRACT	PROJECT
.	1592393

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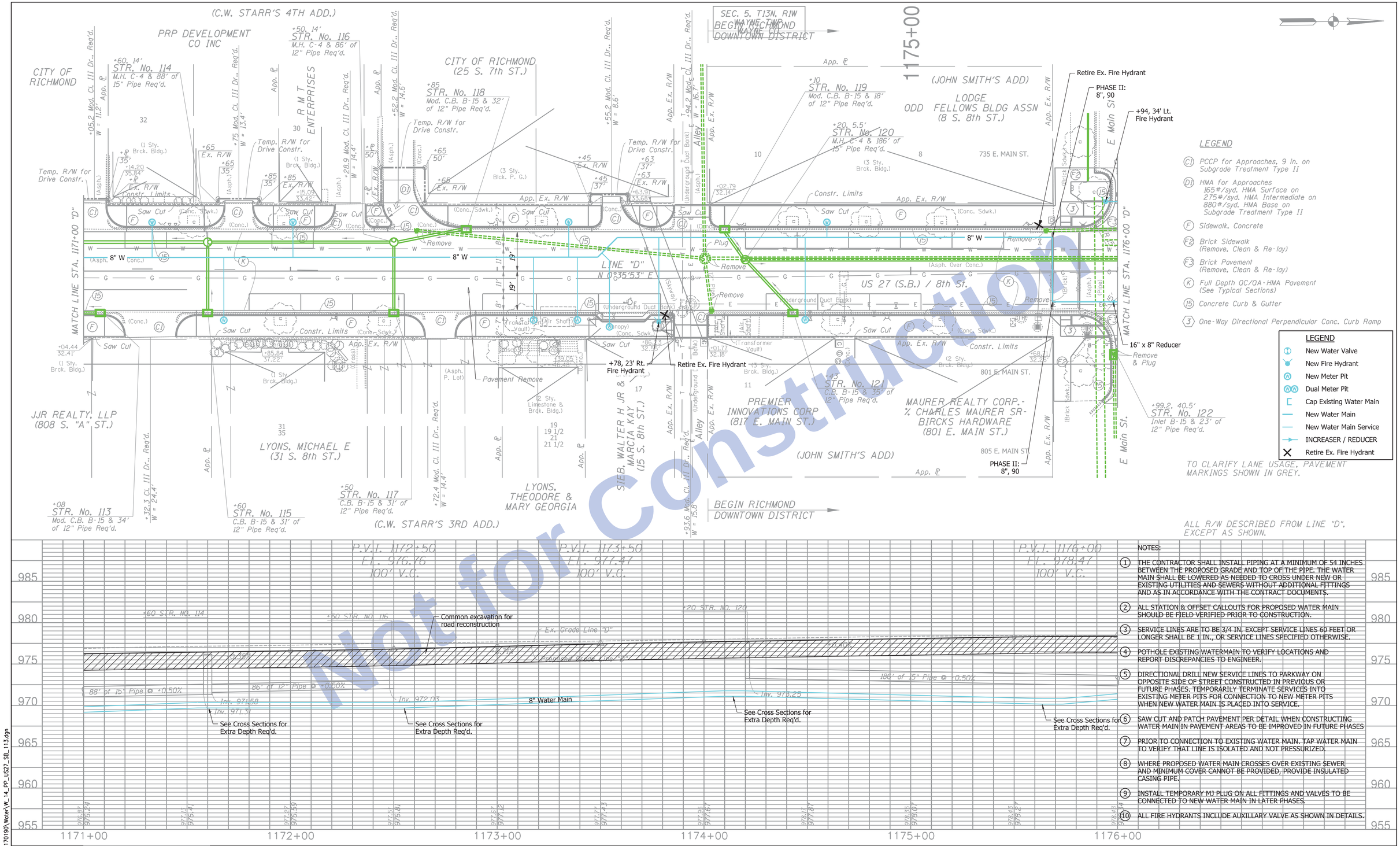

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
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3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN. TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	16 of 47
CONTRACT	PROJECT
	1592393

Not for Construction

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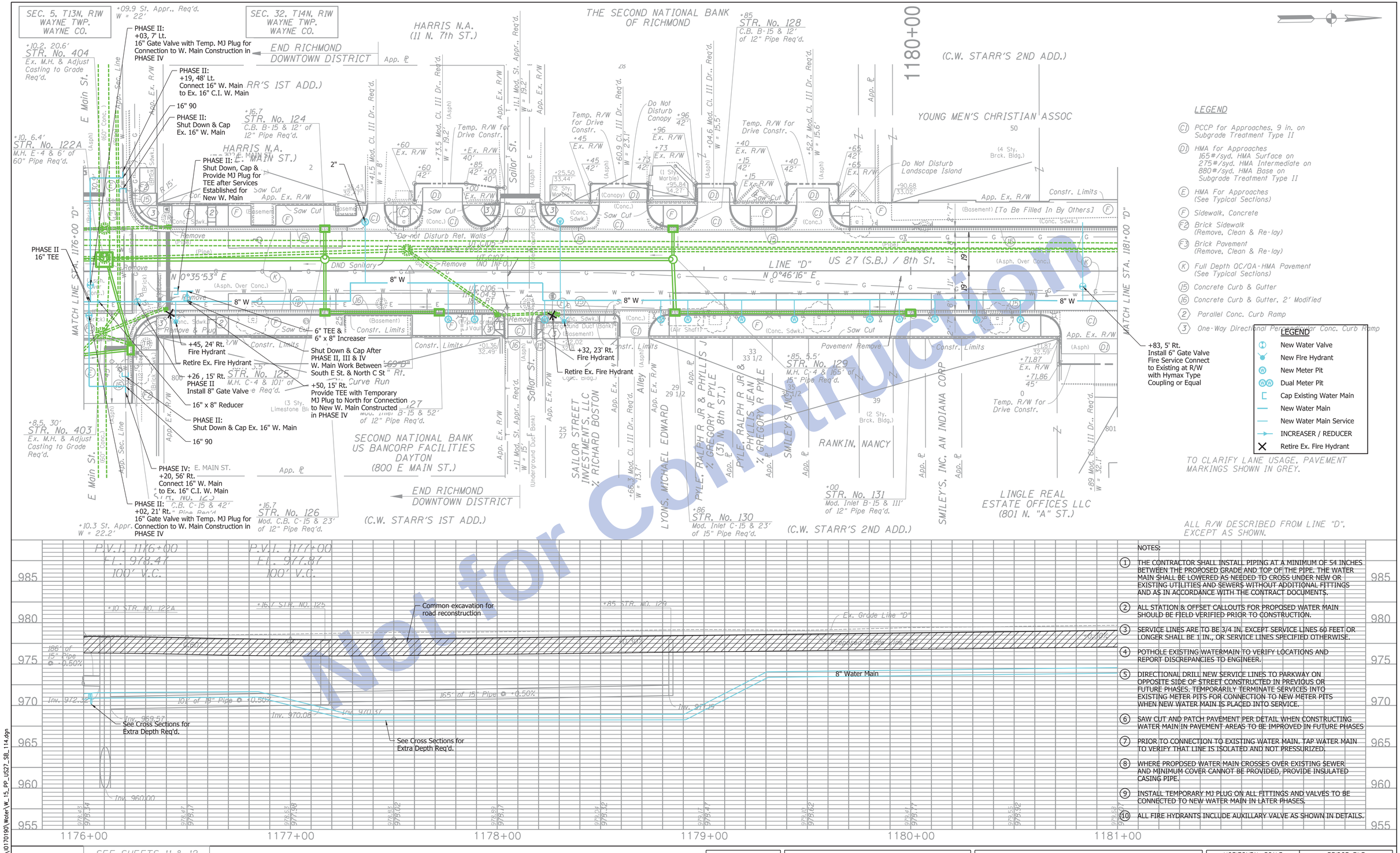

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FOR REFERENCE POINTS

Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	17 of 47
CONTRACT	PROJECT
	1592393

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SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

(C.W. STARR'S 2ND ADD.)

CHURCH OF ST. MARY'S DISTRICT

CHURCH ROMAN CATHOLIC ARCHDIOCESE OF INDIANAPOLIS PROPERTIES INC (126 N. 8th ST.)

TRUSTEE OF THE PAUL W LINGLE REVOCABLE TRUST (200 N. 8th ST.)

YOUNG MEN'S CHRISTIAN ASSOC (4 Sty. Brck. Bldg.)

LINGLE REAL ESTATE OFFICES LLC (801 N. "A" ST.)

ST PAUL'S EPISCOPAL CHURCH (800 N. "A" ST.)

INSURANCE CO OF N. AMERICA (120 N. 9th ST. ALSO FRONTS ON N. 8th ST.)

INSURANCE CO OF N. AMERICA

720 N. A ST.

North "A" St. / US 40 (WB)

North "B" St.

US 27 (S.B.) / 8th St.

LINE "D"
N 0°46'16" E

MATCH LINE STA. 1181+00 "D"

MATCH LINE STA. 1186+00 "D"

1185+00

*10 STR. No. 132
C.B. B-15 & 39' of 12" Pipe Req'd.

*05 STR. No. 137
C.B. B-15 & 25' of 12" Pipe Req'd.

*10 STR. No. 139
M.H. D-4 & 134' of 24" Pipe Req'd.

*08 STR. No. 138
C.B. B-15 & 3' of 12" Pipe Req'd.

*27, 40' STR. No. 140
Mod. C.B. C-15 & 34' of 12" Pipe Req'd.

*50.7, 48' STR. No. 141
Inlet B-15 & 21' of 12" Pipe Req'd.

*92 STR. No. 136
C.B. B-15 & 3' of 12" Pipe Req'd.

*92, 6' STR. No. 135
M.H. C-4 & 112' of 15" Pipe Req'd.

*40, 5.5' STR. No. 133
M.H. C-4 & 48' of 15" Pipe Req'd.

*40 STR. No. 134
C.B. B-15 & 12' of 12" Pipe Req'd.

*+72.7 St. Appr., Req'd. W = 44'

*+73.2 St. Appr., Req'd. W = 44.1'

*+38.6 St. Appr., Req'd. W = 17.3'

*+38.8 St. Appr., Req'd. W = 19'

*+85 Mod. Cl. III Dr., Req'd. W = 22'

*+47.1 Mod. Cl. III Dr., Req'd. W = 45.6'

*+63.4 Mod. Cl. III Dr., Req'd. W = 15.7'

*+52.1 Cl. III Dr., Req'd. W = 28.9'

*+19.3 Mod. Cl. III Dr., Req'd. W = 19.3'

*+49.2 Mod. Cl. III Dr., Req'd. W = 19.4'

Alley

App. Ex. R/W

Ex. R/W

Constr. Limits

Temp. R/W for Drive Constr.

Saw Cut

Pavement Remove

Remove

DND Sanitary

Overhead Conc. Sign Str. - Remove

Retire Ex. Fire Hydrant

+23, 23' Rt. Fire Hydrant

+62, 20' Rt. Fire Hydrant

+70, 22' Rt. Install 6" Gate Valve Domestic / Fire Service Connect to Existing at R/W with Hymax Type Coupling or Equal

PHASE II: Temporary MJ Plug for Continuation of W. Main Construction to South in PHASE IV

+35, 15' Rt. Install 8" Gate Valve

8" W

UT.C104 1181+57.7 35.2 RT

UT.C103 (NO INFO.)

UT.C102 1185+30.5 27.7 LT 25.6 LT

UT.C100 (NO INFO.)

UT.C101 1185+30.8 33.1 RT

Do Not Disturb Sign and Bollards

[To Be Filled In By Others]

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

ALL R/W DESCRIBED FROM LINE "D", EXCEPT AS SHOWN.

CURVE DATA

P.I. 1186+43.93"PR-D-2"
Δ = 62°06'05" (RT)
D = 19°05'55"
T = 180.62'
L = 325.16'
R = 300.00'
E = 50.18'
e = N.C.

LEGEND

(C1) PCCP for Approaches, 9 in. on Subgrade Treatment Type II

(D1) HMA for Approaches 165#/syd. HMA Surface on 275#/syd. HMA Intermediate on 880#/syd. HMA Base on Subgrade Treatment Type II

(E) HMA For Approaches (See Typical Sections)

(F) Sidewalk, Concrete

(K) Full Depth QC/QA-HMA Pavement (See Typical Sections)

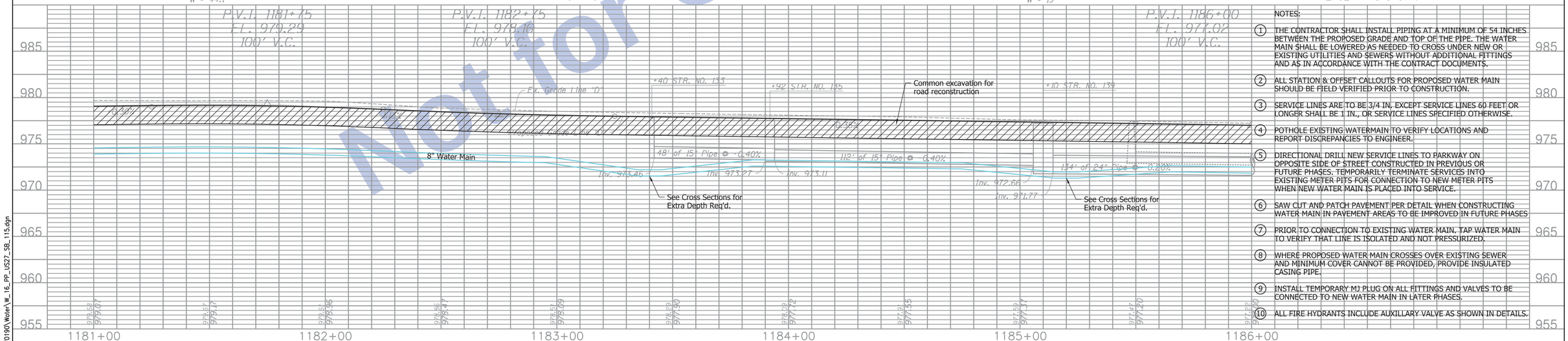
(15) Concrete Curb & Gutter

(26) Sodding, Nursery

(3) One-Way Directional Perpendicular Conc. Curb Ramp

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant



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SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #37: Cut "X" on W Side F. Hyd.
Sta. 1182+32.73"D", 22.58' Rt.
Adjusted El. = 980.3056

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	18 of 47
CONTRACT	PROJECT
	1592393

Not for Construction

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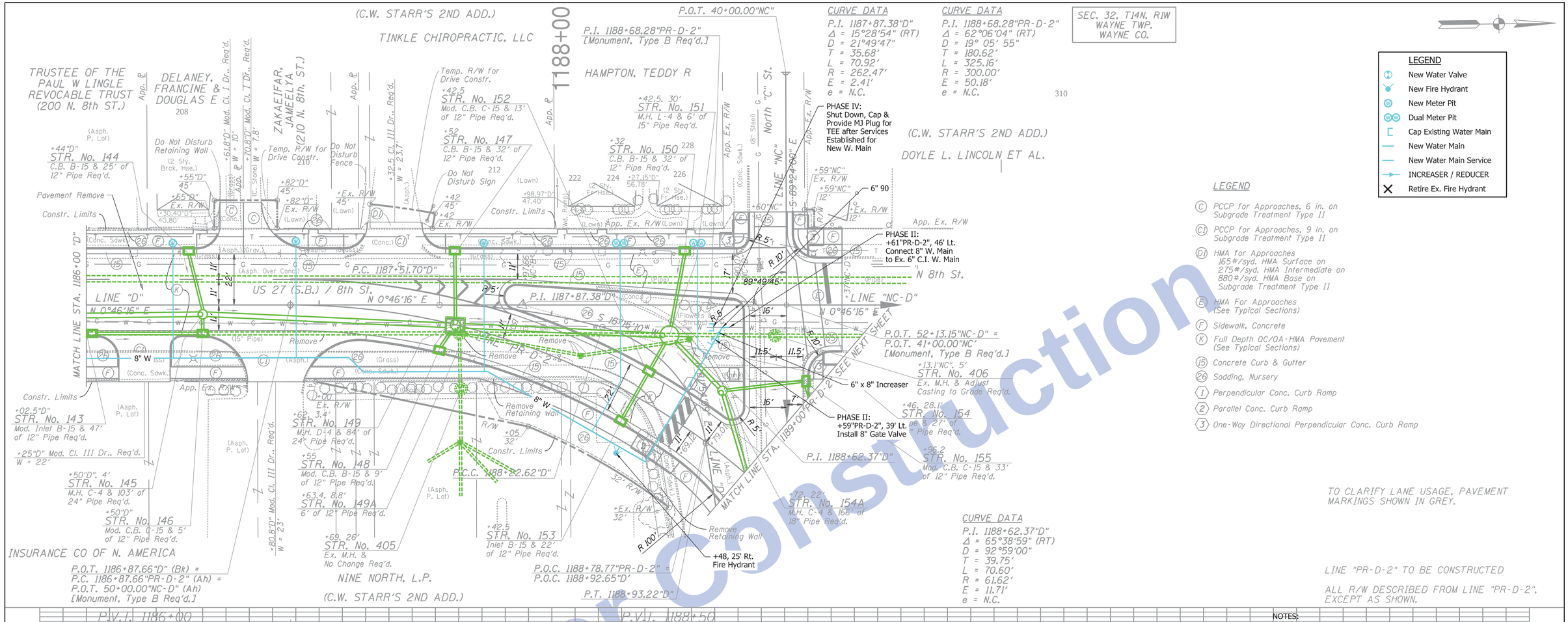

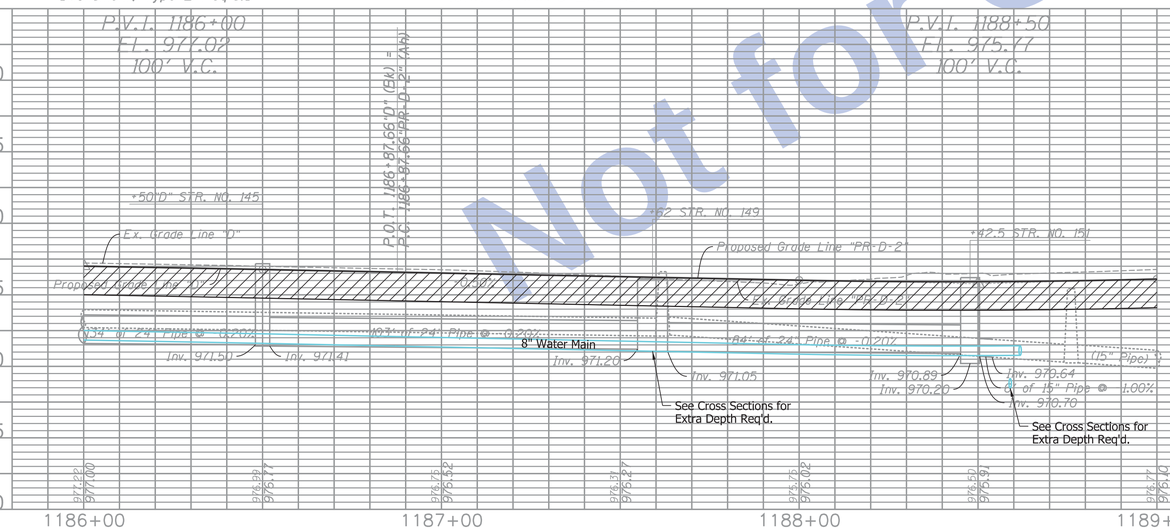

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Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	19 of 47
CONTRACT	PROJECT
	1592393

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CURVE DATA
P.I. 1188+68.28"PR-D-2"
Δ = 62°06'04" (RT)
D = 19° 05' 55"
T = 180.62'
L = 325.16'
R = 300.00'
E = 50.18'
e = N.C.

P.O.C. 1189+25.11"PR-D-2" =
P.O.T. 41+89.16"NC"

ARNETT INVESTMENTS, LLC
(301 N. 8TH ST.)

MATCH LINE STA. 1189+00 "PR-D-2"

S 89°24'00" E
LINE "NC"

R 100'
27°43'41"
R 500'
N 62°52'20" E
LINE "PR-D-2"
N 81°54'09" E
LINE "D"

Constr. Limits
App. Ex. R/W
Remove Retaining Wall
Pavement Remove
NINE NORTH, L.P.
North "C" St.

+25 39'
+50
STR. No. 156
Mod. Inlet E-15 & 66' of 12" Pipe Req'd.
+56.37'
35' R/W
Constr. Limits
App. R
PT 35'
PC 35'
Ex. R/W 35'

(C.W. STARR'S 5TH ADD.)
Alley
Constr. Limits
App. Ex. R/W
ALFRED & CHRISTNE PARKS
SUTTER RONALD R & GRACE E
+82
STR. No. 157
Inlet B-15 & 22' of 12" Pipe Req'd.
+90 35'
35' R/W
Existing Fire Cistern
Constr. Limits
App. R

HOWELL, ALBERT T REVOCABLE LIVING TRUST
Ex. R/W 35'
Constr. Limits
App. Ex. R/W
(Lawn) +95 25'
25' R/W
2'
R 20'
11'
24.3'
Overhead Cont. Sign Str., Remove
Saw Cut
R 15'
9th St.
North "D" St.
App. Ex. R/W

P.T. 1193+45.77"PR-D-2" =
P.O.T. 1192+37.87"PR-C-3", 13' Lt. =
P.O.T. 1192+38.01"C", 13.09' Lt.

SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

SEE SHEET _ FOR CONTINUATION OF US 27 PLAN & PROFILE

BEGIN PROJECT EXCEPTION
STA. 1193+45.77"PR-D-2"
[Monument, Type B Req'd.]

SEE SHEETS NO. 28 & 29
FOR COMPLETE WATERMAIN
WORK IN THIS LOCATION

MATCH LINE STA. 1193+80 "PR-C-3"
LINE "PR-C-3" (N 0°40'37" E)
LINE "PR-C-3" (N 0°39'59" E)
(US 127)

P.C. N90+20.12"PR-D-2"
[Monument, Type B Req'd.]
P.T. 1190+12.82"PR-D-2"
[Monument, Type B Req'd.]
US 27 (S.B.)
US 27 (N.B.)
N 0°40'37" E
22'
11'
R 25'
56.88'
8" W
Temp. R/W for Lawn Grading
Ex. R/W 41' "PR-C-3"
+12"PR-C-3" Ex. R/W
Constr. Limits
App. R
App. Ex. R/W
2'

SPARKS, HERMAN L & MARCIA J
(302 N. 9TH ST.)
AUSTIN, DALE
KOSCHNICK, CHARLES J
STEGALL, MATTHEW G (#463242060300029)

+43.5"NC"
STR. No. 241
(See Line "NC" Plan & Profile)
+00"NC"
STR. No. 239
(See Line "NC" Plan & Profile)
+00"NC"
STR. No. 240
(See Line "NC" Plan & Profile)
+82
STR. No. 158
C.B. C-15 & 66' of 12" Pipe Req'd.
P.I. 1192+01.07"PR-D-2"
[Monument, Type C Req'd.]
For More Information See Sht. No. 28

CURVE DATA
P.I. 1192+01.07"PR-D-2"
Δ = 62°11'43" (LT)
D = 19°05'55"
T = 180.95'
L = 325.65'
R = 300.00'
E = 50.35'
e = N.C.

LEGEND
- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

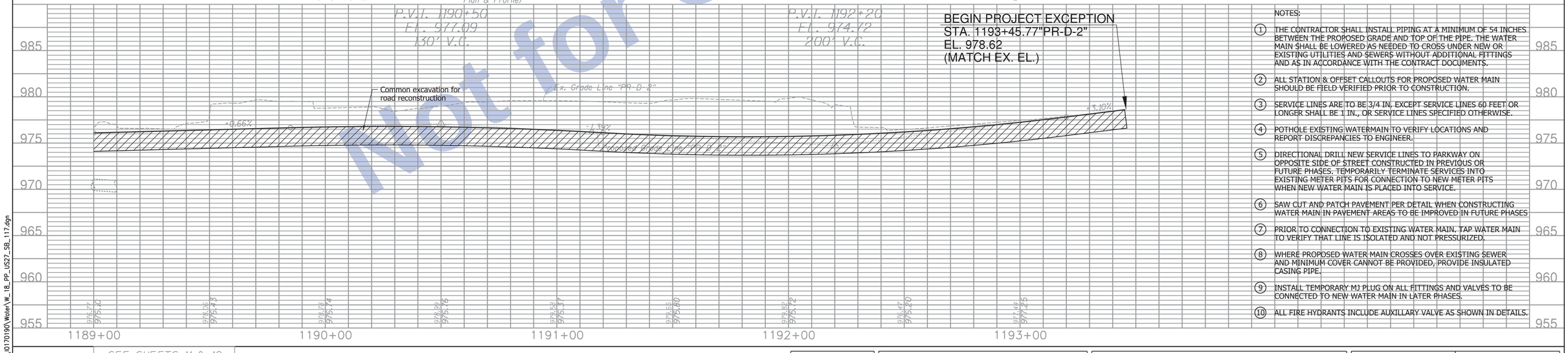
LEGEND
- (C1) PCCP for Approaches, 9 in. on Subgrade Treatment Type II
- (E) HMA For Approaches (See Typical Sections)
- (F) Sidewalk, Concrete
- (K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
- (13) Curb, Concrete
- (15) Concrete Curb & Gutter
- (17) Concrete Curb & Gutter, Modified
- (26) Sodding, Nursery
- (2) Parallel Conc. Curb Ramp
- (3) One-Way Directional Perpendicular Conc. Curb Ramp
- Excess Land

PARKER, RICHARD E & KATHY L DBA: RICHMOND HARDWARE & ETAL (#463242050500029)

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LINE "PR-D-2" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-D-2", EXCEPT AS SHOWN.



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Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27 SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	20 of 47
CONTRACT	PROJECT
	1592393

Not for Construction

8:03:46 PM 8/25/2016 P:\0170190\Water\W_18_PP_US27_SB_117.dgn

CURVE DATA
P.I. 1199+41.96"C"
Δ = 15° 59' 52" (RT)
D = 2° 00' 15"
T = 401.74'
L = 798.25'
R = 2,858.91'
E = 28.09'
e = N.C.

CURVE DATA
P.I. 1199+44.44"PR-C-3"
Δ = 16°02'33" (RT)
D = 1°58'33"
T = 408.66'
L = 811.98'
R = 2,900.00'
E = 28.65'
e = N.C.

1200+00

SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

0 ELM PL.

410
410 1/2

MATCH LINE STA. 1193+80 "PR-C-3"

W

T

RICHMOND RAILROAD DISTRICT

N 0°40'37" E
N 0°39'59" E

P.I. 1199+44.44"PR-C-3"

N 16°43'10" E
N 16°39'52" E

P.I. 1199+33.69"C"

LINE "C"

US 27 / 9th St.

MATCH LINE STA. 1200+20 "PR-C-3"

LEGEND
- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LINE "PR-C-3" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-C-3", EXCEPT AS SHOWN.

Not for Construction

990
985
980
975
970
965
960

1196+00 1197+00 1198+00 1199+00 1200+00 1201+00

NOTES:

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2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN. TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12
FOR REFERENCE POINTS

Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	21 of 47
CONTRACT	PROJECT
	1592393

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Not for Construction

CURVE DATA
P.I. 1199+41.96"C"
Δ = 15° 59' 52" (RT)
D = 2° 00' 15"
T = 401.74'
L = 798.25'
R = 2,858.91'
E = 28.09'
e = N.C.

CURVE DATA
P.I. 1199+44.44"PR-C-3"
Δ = 16°02'33" (RT)
D = 1°58'33"
T = 408.66'
L = 811.98'
R = 2,900.00'
E = 28.65'
e = N.C.

SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

END PROJECT EXCEPTION
STA. 1204+00.00"PR-C-3"

+20
STR. No. 159
C.B. B-15 & 40' of
12" Pipe Req'd.

1205+00

STATE OF INDIANA

App. Ex. R/W

Constr. Limits

Pavement Remove

Remove

(Conc. Sdwk.)

(Asph. Over Conc.)

US 27 / 9th St.

P.T. 1203+47.75"PR-C-3"

P.T. 1203+38.47"C"

LINE "PR-C-3"(N 16°43'10" E)

LINE "C"(N 16°39'52" E)

+44.49

24.8'

24'

+00 (VCR)

11'

2'-7"

4'

Remove & plug

Overhead Cant. Sign Str., Remove

MATCH LINE STA. 1200+20 "PR-C-3"

MATCH LINE STA. 1206+00 "PR-C-3"

+20.18'
STR. No. 160
M.H. C-4 & 286' of
12" Pipe Req'd.

+98.5
STR. No. 407
Ex. M.H. & Adjust
Casting to Grade Req'd.

+20
STR. No. 161
C.B. B-15 & 4'
of 12" Pipe Req'd.

LEGEND
- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

LEGEND
- (A) Plain Jointed QC/QA-PCCP, 9.5 in. (Alternate) (See Typical Sections)
- (F) Sidewalk, Concrete
- (K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
- (15) Concrete Curb & Gutter
- (22) Concrete Center Curb Type "D", Modified

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LINE "PR-C-3" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-C-3", EXCEPT AS SHOWN.

P.V.I. 1203+00
El. 978.15
110' V.C.

P.V.I. 1204+25
El. 971.60
110' V.C.

Incidental Construction for Pavement, Curb & Sidewalk Transition

+44.49

3.85%

Common excavation for road reconstruction

-1.20%

+20 STR. NO. 160

Ex. Grade Line

Proposed Grade Line (PR-C-3)

Inv. 966.98

286' of 12" Pipe @ 0.50%

END PROJECT EXCEPTION
STA. 1204+00.00"PR-C-3"
EL. 972.96

	1201+00	1202+00	1203+00	1204+00	1205+00	1206+00
Ex. Grade Line	980.35	978.21	976.96	974.35	972.21	969.60
Proposed Grade Line	980.08	978.21	976.55	974.56	972.35	970.63

NOTES:
1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #21: Cut Square S Handrail Walkon to NE Cor. STR. N "F" St. Sta. 1202+26.50"C", 30.49' Rt. Adjusted El. = 981.958

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	22 of 47
CONTRACT	PROJECT
.	1592393

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SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

(E. STARR'S ADD.)

+30.9, 36.1'
STR. No. 408
Ex. M.H. & Adjust Casting to Grade Req'd.

+09
STR. No. 162
C.B. B-15 & 40' of 12" Pipe Req'd.

PORTER ADVERTISING, LLC
(#463224040300029)

+77.1 (Rng.) St. Appr., Req'd.
W = 20.1'

North "G" St.

App. Ex. R/W

Constr. Limits

P.C. 1206+67.57"PR-C-3"
[Monument, Type D Req'd.]

MATCH LINE STA. 1206+00 "PR-C-3"

Remove

Constr. Limits

P.C. 1206+69.80"C"

+09, 18'
STR. No. 163
M.H. C-4 & 167' of 15" Pipe Req'd.

+09
STR. No. 164
C.B. B-15 & 4' of 12" Pipe Req'd.

STATE OF INDIANA

+80, 18'
STR. No. 165
M.H. D-4 & 21' of 15" Pipe Req'd.

+73.2"NH-10", 36.7'
STR. No. 165A
Ex. Str. & No Change Req'd.

+91.4, 38.5'
STR. No. 511
Ex. M.H. No Change Req'd.

+28, 36.3'
STR. No. 410
Ex. M.H. & Adjust Casting to Grade Req'd.

LINE "NH10"
N 0°45'35" E

P.O.T. 70+00.00"NH10" =
P.O.C. 1208+24.37"PR-C-3", 93.47' Rt.

SEC. 33, T14N, R1W
WAYNE TWP.
WAYNE CO.

FOR FURTHER INFORMATION ON LINE "NH10", SEE NORTH 10th STREET PLAN & PROFILE SHEET.

NORTHGATE
REAL ESTATE, LLC
(C. & S.C. BROWN'S ADD)

+58.4, 46.6'
STR. No. 412
Ex. M.H. & Adjust Casting to Grade Req'd.

+15"NH10"
STR. No. 167
(See "NH10" Plan & Profile)

+26.7"NH10"
STR. No. 167
(See "NH10" Plan & Profile)

WHITEWATER VALLEY
HEALTH CARE & MARKETING, INC
(#463224032301029)

700

+78.5, 54'
STR. No. 409
Ex. M.H. & Adjust Casting to Grade Req'd.

+38.8, 42.3'
STR. No. 411
Ex. M.H. & Adjust Casting to Grade Req'd.

App. Ex. L.A. R/W

Pavement Remove

Plug

Remove

US 27 / Chester Blvd.

PHASE III:
Shut Down, Cap & Provide MJ Plug for TEE after Services Established for New W. Main

N 16°39'52" E
N 16°43'10" E

6" TEE

PHASE III:
+94"NH10", 10' Lt.
Connect 12" W. Main to Ex. 6" C.I. W. Main

North 10th St.

Remove

Secure

PHASE III:
+02"NH10", 8' Rt.
Install 12" Gate Valve

6" x 12" Increaser

+41"NH10", 12' Rt.
Install 8" Gate Valve

10" x 8" Increaser

6" TEE

PHASE III:
+45"NH10", 28' Rt.
Connect 8" W. Main to Ex. 6" C.I. W. Main

North "H" St.

8" W

P.O.T. 71
P.O.T. 60
[Monument, Type D Req'd.]

PHASE III:
Shut Down, Cap & Provide MJ Plug for TEE after Services Established

P.O.T. 61+00.00"NH"

+32"NH10", 0.7'
STR. No. 168
(See "NH10" Plan & Profile)

1210+00

ADAMS, GARY L & LEAH K
750
(SANDER'S ADD.)

+77.7 (Rng.) Mod. Cl. III Dr., Req'd.
W = 19.2'

+49.7 (Rng.) Mod. Cl. III Dr., Req'd.
W = 13.9'

Remove Ldscp. & Blocks

Do Not Disturb Sign

P.O.C. 1209+55.30"PR-C-3" =
P.O.T. 60+00.00"NH"

LINE "C"

LINE "PR-C-3"

P.I. 1210+73.77"C"

P.I. 1210+72.43"PR-C-3"
[Monument, Type B Req'd.]

N 0°43'10" E
N 0°42'56" E

73°11'49"

12" x 8" TEE

12" W

+75"NH10", 9' Rt.
Install 12" Gate Valve

Do Not Disturb Light Retaining Wall

Temp. R/W for Sidewalk & Drive Constr.

Do Not Disturb Sign

NORTHGATE
REAL ESTATE, LLC

+40"NH10"
STR. No. 170
(See "NH10" Plan & Profile)

MATCH LINE STA. 1211+00 "PR-C-3"

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

+65.1"NH10"
STR. No. 169
(See "NH10" Plan & Profile)

LEGEND

- (C) PCCP for Approaches, 9 in. on Subgrade Treatment Type II
- (E) HMA For Approaches (See Typical Sections)
- (F) Sidewalk, Concrete
- (K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
- (15) Concrete Curb & Gutter
- (22) Concrete Center Curb Type "D", Modified
- (26) Sodding, Nursery
- (3) One-Way Directional Perpendicular Conc. Curb Ramp

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

CURVE DATA
P.I. 1210+73.77"C"
Δ = 15°56'42" (LT)
D = 1° 59' 11"
T = 403.96'
L = 802.71'
R = 2,884.40'
E = 28.15'
e = N.C.

CURVE DATA
P.I. 1210+72.43"PR-C-3"
Δ = 16°00'14" (LT)
D = 1°59'22"
T = 404.86'
L = 804.44'
R = 2,880.00'
E = 28.32'
e = N.C.

LINE "PR-C-3" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-C-3", EXCEPT AS SHOWN.

P.V.I. 1208+00
El. 956.60
10' V.C.

P.V.I. 1210+50
El. 949.73
10' V.C.

+4.00%

+09 STR. NO. 163

Common excavation for road reconstruction

286' of 12" Pipe @ 4.00%

Inv. 955.57

Inv. 955.27

Ex. Grade Line "PR-C-3"

+80 STR. NO. 165

167' of 15" Pipe @ 3.50%

Proposed Grade Line "PR-C-3"

Inv. 949.42

Inv. 949.19

21' of 15" Pipe @ -2.24%

Inv. 948.72

+32"NH10" STR. NO. 168

6' of 18" Pipe @ +0.32%

Inv. 944.38

Inv. 944.36

See Cross Sections for Extra Depth Req'd.

12" Water Main

+40"NH10" STR. NO. 170

74' of 12" Pipe @ -2.62%

Inv. 945.75

970
965
960
955
950
945
940

1206+00
1207+00
1208+00
1209+00
1210+00
1211+00

NOTES:

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2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
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8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #22: Cut "X" W Bolt F. Hyd. 150' S N "H" St.
Sta. 1208+20.62"C", 97.44' Rt.
Adjusted El. = 955.441

Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	23 of 47
CONTRACT	PROJECT
	1592393

Not for Construction

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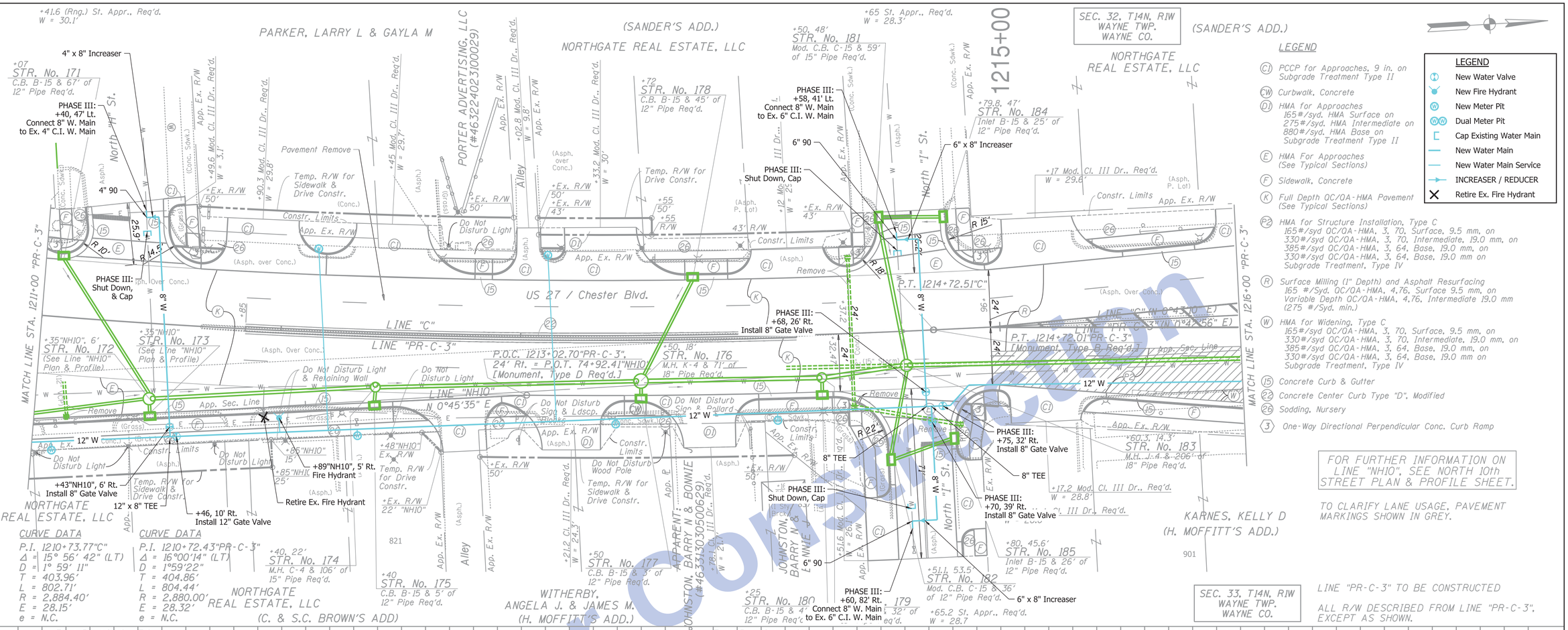

FOR FURTHER INFORMATION ON LINE "NH10", SEE NORTH 10th STREET PLAN & PROFILE SHEET.

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LINE "PR-C-3" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-C-3", EXCEPT AS SHOWN.

SEC. 33, T14N, R1W WAYNE TWP. WAYNE CO.

KARNES, KELLY D (H. MOFFITT'S ADD.)

NORTHGATE REAL ESTATE, LLC

WITHERBY, ANGELA J. & JAMES M. (H. MOFFITT'S ADD.)

JOHNSTON, BARRY N & BONNIE L (#46331303500629)

APPARENT: JOHNSTON, BARRY N & BONNIE L

NORTHGATE REAL ESTATE, LLC (C. & S.C. BROWN'S ADD)

CURVE DATA

P.I. 1210+73.77"C"
Δ = 15° 56' 42" (LT)
D = 1° 59' 11"
T = 403.96'
L = 802.71'
R = 2,884.40'
E = 28.15'
e = N.C.

CURVE DATA

P.I. 1210+72.43"PR-C-3"
Δ = 16°00'14" (LT)
D = 1°59'22"
T = 404.86'
L = 804.44'
R = 2,880.00'
E = 28.32'
e = N.C.

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
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10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

Not for Construction

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE US 27

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	24 of 47
CONTRACT	PROJECT
	1592393

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SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

MARCUM, ROBERT H & RUBY L

+06.6 Mod. Cl. III Dr.. Req'd.
W = 29'

App. Ex. R/W

+70
STR. No. 187
C.B. B-15 & 50' of 12" Pipe Req'd.

J & MW HOLDINGS LLC

+42.6 Mod. Cl. III Dr.. Req'd.
W = 10'
Alley

+28"PR-S-121"
STR. No. 193
(See SR 121 Plan & Profile)

Connect New Water Main to +24 6" Water Line in Service Vault for Dialysis Center. Provide Reducer C.B. E as Required for Connection 12" Pipe Req'd.

Pavement Remove

+02, 36' Lt. Fire Hydrant

Retire Ex. Fire Hydrant

Constr. Limits

US 27 / Chester Blvd.

P.O.T. 1218+84.98"PR-C-3" =
P.O.T. 50+00.01"PR-S-121"
[Monument, Type B Req'd]

90°00'30"

Remove & Plug

Remove Retaining Wall

12" W

MATCH LINE STA. 1216+00 "PR-C-3"

+33.6
STR. No. 186
Inlet B-15 & 40' of 12" Pipe Req'd.

KARNES, KELLY D

+18.1 Mod. Cl. III Dr.. Req'd.
W = 15'

+69.5 Cl. III Dr.. Req'd.
W = 33'

+70 20'
STR. No. 188
M.H. C-4 & 116' of 18" Pipe Req'd.

CHOICE CARS, INC

+90, 23.4'
STR. No. 189
M.H. C-4 & 66' of 18" Pipe Req'd.

+90
STR. No. 190
C.B. C-15 & 22' of 12" Pipe Req'd.

+90, 60.7'
STR. No. 190A
15" PCB & 11' of 12" Pipe Req'd.

+59.7, 25.3'
STR. No. 192
M.H. C-4 & 6' of 18" Pipe Req'd.

MILLER, JOHN W

+01"PR-S-121", 37.7'
STR. No. 249
(See SR 121 Plan & Profile)

+00"PR-S-121", 43.4'
STR. No. 248
(See SR 121 Plan & Profile)

PHASE III: +89, 38' Rt. Install 12" Gate Valve

PHASE III: +02, 43' Rt. Install 8" Gate Valve

NORTH J" ST. / SR 121 / SR 227

LINE "PR-S-121"

+28"PR-S-121", 22'
STR. No. 194
(See SR 121 Plan & Profile)

+28"PR-S-121"
STR. No. 196
(See SR 121 Plan & Profile)

MORGUSON PROPERTIES, LLC

1000

1220+00

+20
STR. No. 197
C.B. B-15 & 68' of 12" Pipe Req'd.

Temp. R/W for Drive Constr.

+50
55'

+50
Ex. R/W

P.O.T. 1218+25.13"C" =
P.O.T. 50+01.00"PR-S-121"

LINE "C" (N 0°43'10" E)
LINE "PR-C-3" (N 0°42'56" E)

App. Sec. Line

+15, 26.6'
STR. No. 195
M.H. C-4 & 6' of 18" Pipe Req'd.

+75"PR-S-121"
STR. No. 246
(See SR 121 Plan & Profile)

+95
Ex. R/W
60'

Temp. R/W for Dr. Constr.

+72"PR-S-121", 26'
STR. No. 247
(See SR 121 Plan & Profile)

SEC. 33, T14N, R1W
WAYNE TWP.
WAYNE CO.

MARCUM, HAROLD D.

+62
STR. No. 199
C.B. B-15 & 6' of 12" Pipe Req'd.

+68.5, 27.4'
Ex. M.H. & Adjust Casting to Grade Req'd.

+62, 22'
STR. No. 198
M.H. C-4 & 114' of 12" Pipe Req'd.

+55
Ex. R/W
50'

Temp. R/W for Dr. Constr.

+10
Ex. R/W
10'

+68.1, 11.9'
STR. No. 512
Ex. M.H. & Adjust Casting to Grade Req'd.

FRANKLIN, GARY A & MARLA E

+49.4 Cl. III Dr.. Req'd.
W = 30.2'

+Ex. R/W
55'

CENTRAL INDIANA CREDIT & AUTOMOTIVE INC.

+36 Mod. Cl. III Dr.. Req'd.
W = 32.5'

+71.3, 30.4'
STR. No. 413
Ex. M.H. & Adjust Casting to Grade Req'd.

MATCH LINE STA. 1221+00 "PR-C-3"

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

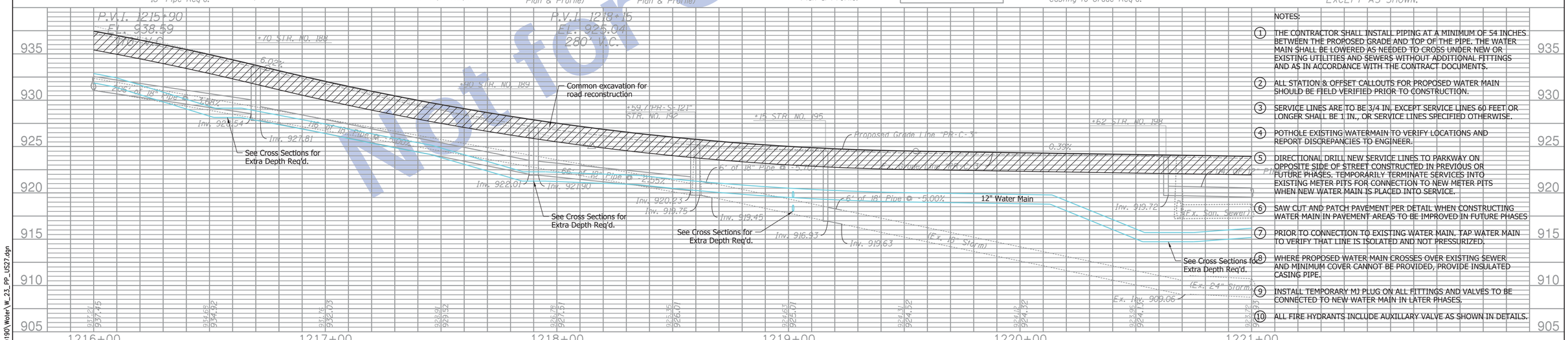
LINE "PR-C-3" TO BE CONSTRUCTED
ALL R/W DESCRIBED FROM LINE "PR-C-3", EXCEPT AS SHOWN.

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

LEGEND

(C1) PCCP for Approaches, 9 in. on Subgrade Treatment Type II
(CW) Curbwalk, Concrete
(D1) HMA for Approaches 165#/syd. HMA Surface on 275#/syd. HMA Intermediate on 880#/syd. HMA Base on Subgrade Treatment Type II
(E1) HMA For Approaches (See Typical Sections)
(F) Sidewalk, Concrete
(K1) Full Depth QC/QA-HMA Pavement (See Typical Sections)
(P2) HMA for Structure Installation, Type C 165#/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 330#/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 385#/syd QC/QA-HMA, 3, 64, Base, 19.0 mm, on 330#/syd QC/QA-HMA, 3, 64, Base, 19.0 mm on Subgrade Treatment, Type IV
(R) Surface Milling (1" Depth) and Asphalt Resurfacing 165 #/Syd. QC/QA-HMA, 4.76, Surface 9.5 mm, on Variable Depth QC/QA-HMA, 4.76, Intermediate 19.0 mm (275 #/Syd. min.)
(W) HMA for Widening, Type C 165#/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 330#/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 385#/syd QC/QA-HMA, 3, 64, Base, 19.0 mm, on 330#/syd QC/QA-HMA, 3, 64, Base, 19.0 mm on Subgrade Treatment, Type IV
(15) Concrete Curb & Gutter
(26) Sodding, Nursery
(60) Modular Block Wall
(1) Perpendicular Conc. Curb Ramp
(2) Parallel Conc. Curb Ramp



NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN. TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	25 of 47
CONTRACT	PROJECT
	1592393

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Not for Construction

SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

1225+00

+65
STR. No. 200
C.B. B-15 & 56' of
12" Pipe Req'd.

+12 Cl. III Dr., Req'd.
W = 29'

+07.5 Mod. Cl. III Dr., Req'd.
W = 29'

+46 Mod. Cl. III Dr., Req'd.
W = 32.7'

+45 Mod. Cl. III Dr., Req'd.
W = 21'

App. Ex. R/W

FRANKLIN,
GARY A & MARLA E
1090

+25
STR. No. 203
C.B. B-15 & 57' of
12" Pipe Req'd.

1006

(Asph.) App. Ex. R/W

Pavement Remove

E. FORK OF
WHITEWATER RIVER

MATCH LINE STA. 1221+00 "PR-C-3"

US 27 / Chester Blvd.

Hydrant TEE with Plug
& Hydrant Auxiliary Valve
Connected to TEE

12" Plug

12" x 6" Reducer

12" W

12" W

LINE "PR-C-3" (N 0°42'56" E)
LINE "C" (N 0°43'10" E)
Line

P.O.T. 1226+17.99"PR-C-3" =
P.O.T. 1226+18.13"C", 0.04' Rt.

P.O.T. 1226+18.17"C"

+59.92

(Asph. Over Conc.)

(Grass)

(Conc.)

(Asph.)

(Ex. 24" Storm)

(Ex. 30" Storm)

+45, 24'
STR. No. 204
M.H. D-4 & 15' of
15" Pipe Req'd.

Retire Ex. Fire Hydrant

PHASE III:
+24, 30' Rt.
Install 6" Gate Valve

+24, 42' Rt.
Fire Hydrant

CENTRAL INDIANA CREDIT
&
AUTOMOTIVE INC.
1061

END PROJECT 1592393
STA. 1221+80.00"PR-C-3"
[Monument, Type B Req'd.]

+80, 24'
STR. No. 201
M.H. C-4 & 160' of
15" Pipe Req'd.

+80
STR. No. 202
C.B. B-15 & 6' of
12" Pipe Req'd.

+45
STR. No. 205
C.B. B-15 & 5' of
12" Pipe Req'd.

+55.7 Mod. Cl. III Dr., Req'd.
W = 8.5'

+57.8, 35.7'
STR. No. 414
Ex. M.H.

SEC. 33, T14N, R1W
WAYNE TWP.
WAYNE CO.

TO CLARIFY LANE USAGE, PAVEMENT
MARKINGS SHOWN IN GREY.

LINE "PR-C-3" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-C-3",
EXCEPT AS SHOWN.

LEGEND

- (C1) PCCP for Approaches, 9 in. on Subgrade Treatment Type II
- (CW) Curbwalk, Concrete
- (F) Sidewalk, Concrete
- (P2) HMA for Structure Installation, Type C
  165#/syd OC/OA-HMA, 3, 70, Surface, 9.5 mm, on
  330#/syd OC/OA-HMA, 3, 70, Intermediate, 19.0 mm, on
  385#/syd OC/OA-HMA, 3, 64, Base, 19.0 mm, on
  330#/syd OC/OA-HMA, 3, 64, Base, 19.0 mm on
  Subgrade Treatment, Type IV
- (R) Surface Milling (1" Depth) and Asphalt Resurfacing
  165 #/Syd. OC/OA-HMA, 4.76, Surface 9.5 mm, on
  Variable Depth OC/OA-HMA, 4.76, Intermediate 19.0 mm
  (275 #/Syd. min.)
- (W) HMA for Widening, Type C
  165#/syd OC/OA-HMA, 3, 70, Surface, 9.5 mm, on
  330#/syd OC/OA-HMA, 3, 70, Intermediate, 19.0 mm, on
  385#/syd OC/OA-HMA, 3, 64, Base, 19.0 mm, on
  330#/syd OC/OA-HMA, 3, 64, Base, 19.0 mm on
  Subgrade Treatment, Type IV
- (15) Concrete Curb & Gutter
- (26) Sodding, Nursery

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

END PROJECT 1592393
STA. 1221+80.00"PR-C-3"
EL. 923.62

P.V.I. 1222+40
EL. 923.39

Incidental Construction for Surface Milling & Resurfacing, Drives, Drainage & Sidewalk Construction.

Common excavation for road reconstruction

+80 STR. NO. 201

+45 STR. NO. 204

+57.8 STR. NO. 414

Proposed Grade Line "PR-C-3"

-0.39%

-0.70%

114' of 12" PIPE @ -0.50%

(Ex. 18" San. Sewer)

Inv. 919.15

Inv. 918.77

12" Water Main

See Cross Sections for
Extra Depth Req'd.

60' of 15" Pipe @ -1.00%

Inv. 917.18

Inv. 914.75

15' of 15" Pipe @ -1.00%

Inv. 914.60

(Ex. San. Sewer)

(Ex. 24" Storm)

(Ex. 30" Storm)

Ex. Inv. 905.58

	1221+00	1222+00	1223+00	1224+00	1225+00	1226+00
Ex. Grade Along R/W Line	923.72	923.59	923.38	923.06	922.69	
Proposed Grade Line	923.93	923.74	923.55	923.32	922.97	922.52

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SEE SHEETS 11 & 12
FOR REFERENCE POINTS

Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	26 of 47
CONTRACT	PROJECT
	1592393

Not for Construction

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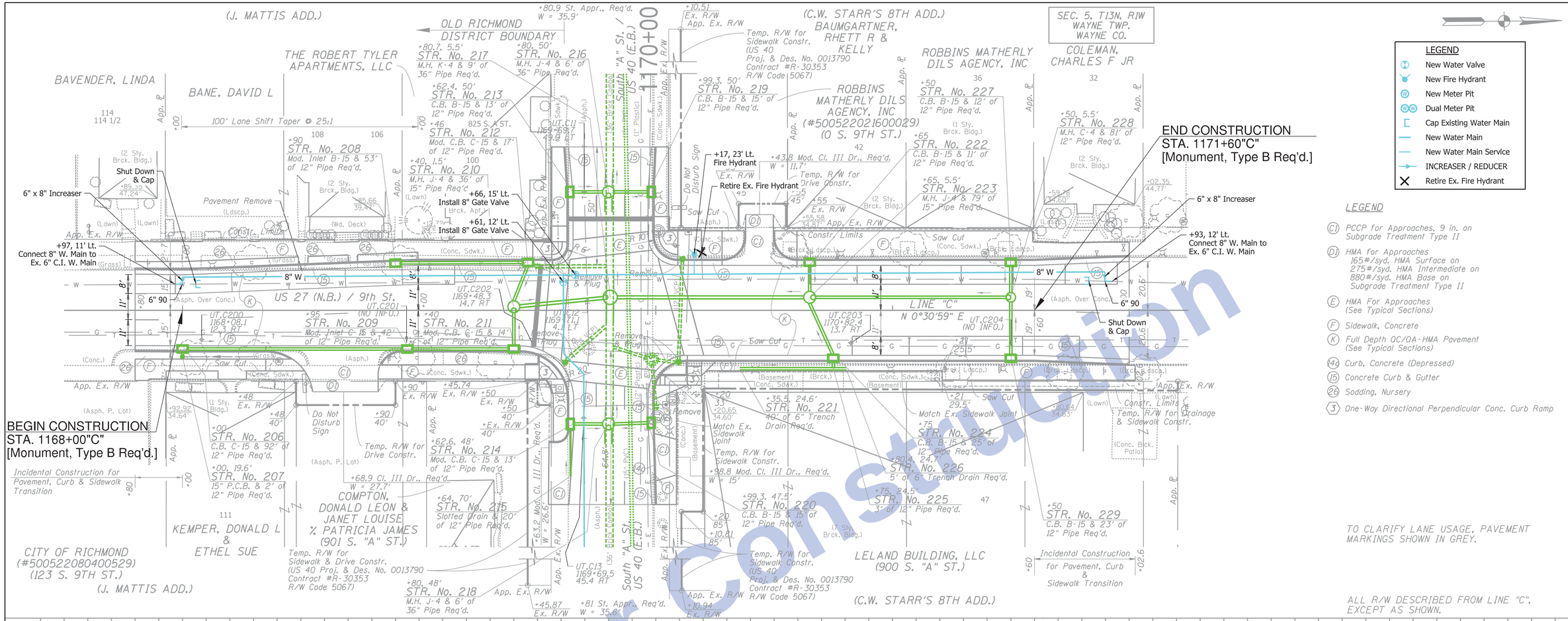

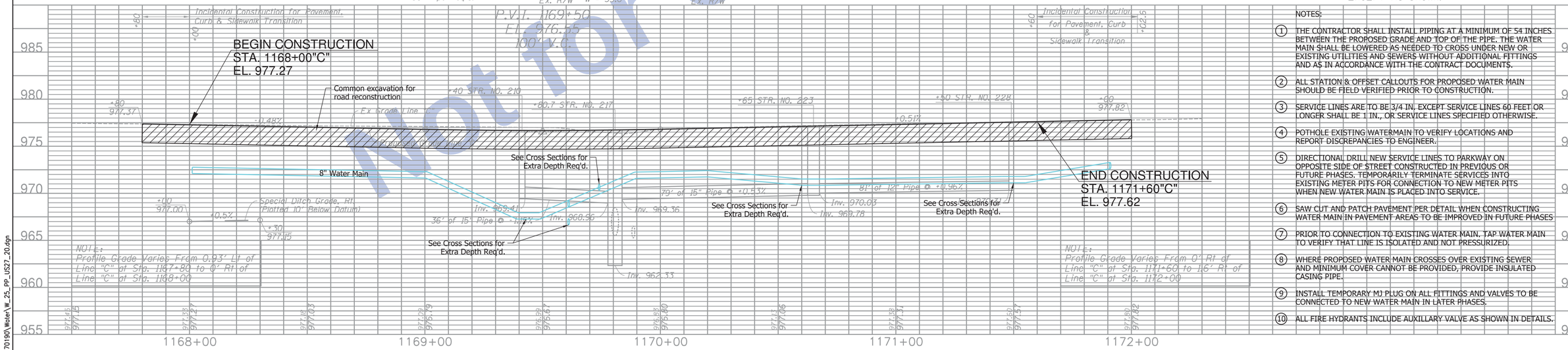

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10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #18: Cut "X" E Bolt F. Hyd. @ Cor. US 40 EB Sta. 1170+19.65"C", 23.99' Lt. Adjusted El. = 978.824

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP

CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE US 27 NORTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	27 of 47
CONTRACT	PROJECT
.	1592393

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SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

(C.W. STARR'S 5TH ADD.)

NINE NORTH, L.P.

+00"C"
STR. No. 230
C.B. B-15 & 27' of 12" Pipe Req'd.

+80
STR. No. 233
Mod. Inlet B-15 & 73' of 12" Pipe Req'd.

+43.5"NC"
STR. No. 241
(See Line "NC" Plan & Profile)

North "C" St.

LINE "NC" S 89°24'00" E

SPARKS, HERMAN L & MARCIA J (302 N. 9TH ST.)

AUSTIN, DALE

SUTTER, RONALD R & GRACE E

ALFRED & CHRISTINE PARKS

1190+00

+82"PR-D-2"
STR. No. 157
(See Line "PR-D-2" Plan & Profile)

(C.W. STARR'S 5TH ADD.)

LINE "PR-D-2"

US 27 (S.B.)

+82"PR-D-2"
STR. No. 158
(See Line PR-D-2 Plan & Profile)

BEGIN CONSTRUCTION
STA. 1187+00"C"
[Monument, Type B Req'd.]

P.I. 1187+68.09"C" (Bk.) =
P.O.T. 1187+67.96"PR-C-3" (Ah.)
Δ = 0°02'38" Rt.
No Curve Run
[Monument, Type B Req'd]

P.C. 1191+06.51"D"

P.I. 1191+59.04"D"

P.T. 1191+94.01"D"

P.I. 1189+76.76"PR-C-3"
Δ = 0°2'53" Rt.
No Curve Run -
P.T. 1191+94.01"D", 17.18' Rt.
[Monument, Type B Req'd]

LINE "D" N 0°39'57" E

LINE "PR-C-3"(N 0°37'44" E)

LINE "C"(N 0°39'59" E)

LINE "C" N 0°37'2" E

LINE "PR-C-3" (N 0°40'37" E)

+56
STR. No. 234
Mod. C.B. C-15 & 21' of 12" Pipe Req'd.

P.O.T. 1189+17.85"PR-C-3"
P.O.T. 44+39.27"NC"
[Monument, Type B Req'd]

Retire Ex. Fire Hydrant

+19, 21' Lt.
Fire Hydrant

+58"C", ' Lt.
Install 8" Gate Valve

6" x 8" Increaser

PHASE II:
+55, 9' Lt.
Connect 8" W. Main to
Ex. 6" C.I. W. Main

6" TEE

PHASE II:
Shut Down, Cap & Provide MJ Plug for TEE after Services Established for New W. Main

PHASE II:
+74, 16' Lt.
Install 8" Gate Valve

6" x 8" Increaser

PHASE II:
+77, 8' Lt.
Connect 8" W. Main to
Ex. 6" C.I. W. Main

12" TEE

PHASE II:
Shut Down, Cap & Provide MJ Plug for TEE after Services Established for New W. Main

Connect 1" Service Line to Existing 5/8" Lead Service

Pavement Remove

Constr. Limits

Incidental Construction for Pavement, Curb & Sidewalk Transition

Temp. R/W for Retaining Wall Constr.

Remove Retaining Wall

Saw Cut

App. Ex. R/W

Ex. R/W

8" W

MATCH LINE STA. 1191+00 "PR-C-3"

+00"C", 12.5'
STR. No. 231
M.H. C-4 & 152' of 12" Pipe Req'd.

+00"C"
STR. No. 232
C.B. B-15 & 3' of 12" Pipe Req'd.

+56, 12.5'
STR. No. 235
M.H. C-4 & 73' of 15" Pipe Req'd.

+56
STR. No. 236
C.B. B-15 & 3' of 12" Pipe Req'd.

+13.8, 5.3'
STR. No. 514
Ex. M.H. & Adjust Casting to Grade Req'd.

+08.4, 39.3'
STR. No. 237
Inlet B-15 & 13' of 12" Pipe Req'd.
+18 St. Appr., Req'd.
W = 14.5'

+25.8, 42.3'
STR. No. 238
Mod. C.B. C-15 & 27' of 12" Pipe Req'd.

+50
STR. No. 242
Constr. Limits

+35, 12'
STR. No. 242
M.H. D-4 & 99' of 18" Pipe Req'd.

+40
STR. No. 244
M.H. C-4 & 4' of 18" Pipe

+50
STR. No. 243
C.B. B-15 & 17' of 12" Pipe Req'd.

+40
STR. No. 245
C.B. B-15 & 11' of 12" Pipe Req'd.

Lot 184 Lot 183 Lot 182

CRAMSTAR, LLC
(201 N. 9TH ST.)

STEGALL, MATTHEW G

ARNETT INVESTMENTS, LLC

EARLYWINE, ERIC
(J.M. BROWN'S ADD.)

STEGALL, MATTHEW G (#46324206050029)

STEGALL, MATTHEW G (#46324206040029)

UT.C205
1187+07.2
15.9 RT

UT.C206
1188+57.9
15.9 RT

UT.C208
1189+43.0
16.1 RT

UT.C209
1190+40.1
16.0 RT

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

LEGEND

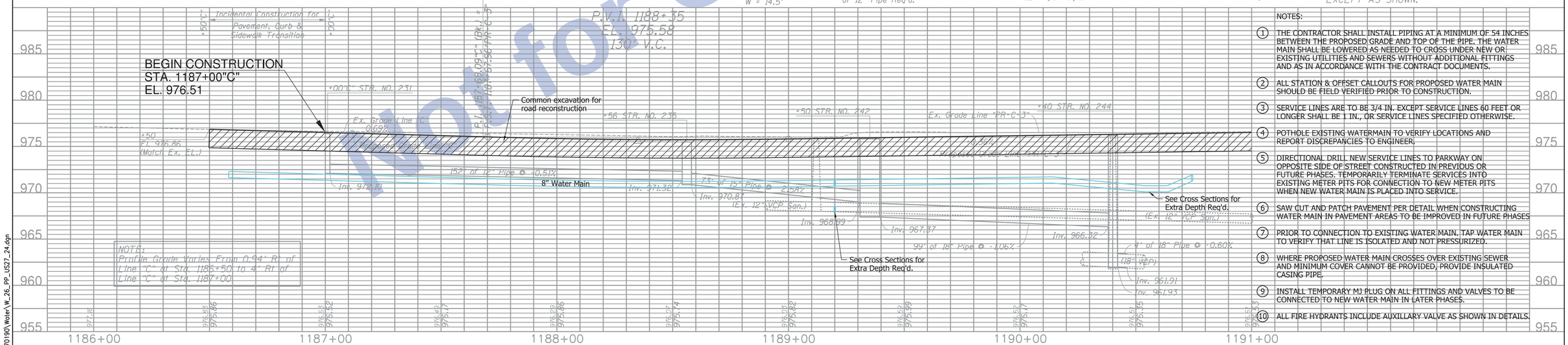
- (CI) PCCP for Approaches, 9 in. on Subgrade Treatment Type II
- (E) HMA For Approaches (See Typical Sections)
- (F) Sidewalk, Concrete
- (K) Full Depth OC/OA-HMA Pavement (See Typical Sections)
- (15) Concrete Curb & Gutter
- (17) Concrete Curb & Gutter, Modified
- (26) Sodding, Nursery
- (29) Concrete Retaining Wall
- (3) One-Way Directional Perpendicular Conc. Curb Ramp

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LINE "PR-C-3" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-C-3", EXCEPT AS SHOWN.

Not for Construction



NOTES:

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8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

TBM #20: Bt. Spk. Set S Side of 48" Sycamore ✪ N "C" St. Sta. 1189+25.41"C", 72.27' Rt. Adjusted El. = 977.599

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	28 of 47
CONTRACT	PROJECT
	1592393

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(C.W. STARR'S 5TH ADD.)

HOWELL, ALBERT T REVOCABLE LIVING TRUST

ALFRED & CHRISTINE PARKS

SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

1195+00

0 ELM PL.

CURVE DATA

P.I. 1199+44.44"PR-C-3"
Δ = 16°02'33" (RT)
D = 1°58'33"
T = 408.66'
L = 811.98'
R = 2,900.00'
E = 28.65'
e = N.C.

LEGEND

- (F) Sidewalk, Concrete
- (K) Full Depth QC/QA-HMA Pavement (See Typical Sections)
- (14) Curb, Concrete
- (15) Concrete Curb & Gutter
- (26) Sodding, Nursery
- (2) Parallel Conc. Curb Ramp
- (3) One-Way Directional Perpendicular Conc. Curb Ramp
- Excess Land

LEGEND
New Water Valve
New Fire Hydrant
New Meter Pit
Dual Meter Pit
Cap Existing Water Main
New Water Main
New Water Main Service
INCREASER / REDUCER
Retire Ex. Fire Hydrant

Remove Retaining Wall

MATCH LINE STA. 1191+00 "PR-C-3"

MATCH LINE STA. 1196+00 "PR-C-3"

LINE "PR-D-2" US 27 (S.B.)

US 27 (N.B.) 9th St.

US 27 / 9th St.

LINE "PR-C-3" (N 0°40'37" E)
LINE "C" (N 0°39'59" E)

P.C. 1195+35.77"PR-C-3"

P.C. 1195+40.22"C"

P.T. 1193+45.77"PR-D-2" =
P.O.T. 1192+37.87"PR-C-3", 13' Lt.

END CONSTRUCTION
STA. 1192+37.70"PR-C-3"

STAMPER, EARL E & DOROTHY M
400
(2 Sty. Brck. Hse.)

WISE AUTO PARTS, INC
406

KIRKENDALL, CLINTON L & DONNA
410
410 1/2
(1 1/2 Sty. Brck. Hse.)

PARKER, RICHARD E & KATHY L DBA: RICHMOND HARDWARE & ETAL
(#463242050500029)

STEGALL, MATTHEW G
(#463242060400029)

STEGALL, MATTHEW G
(#463242060300029)

KOSCHNICK, CHARLES J

901 N. D ST.

314

323

North "D" St.

Saw Cut

Pavement Remove

Temp. R/W for Low Grading

Constr. Limits

App. Ex. R/W

(Conc. Sdwk.)

(Asph. Over Conc.)

(Grass)

(Lawn)

(12" VCP)

(18" VCP)

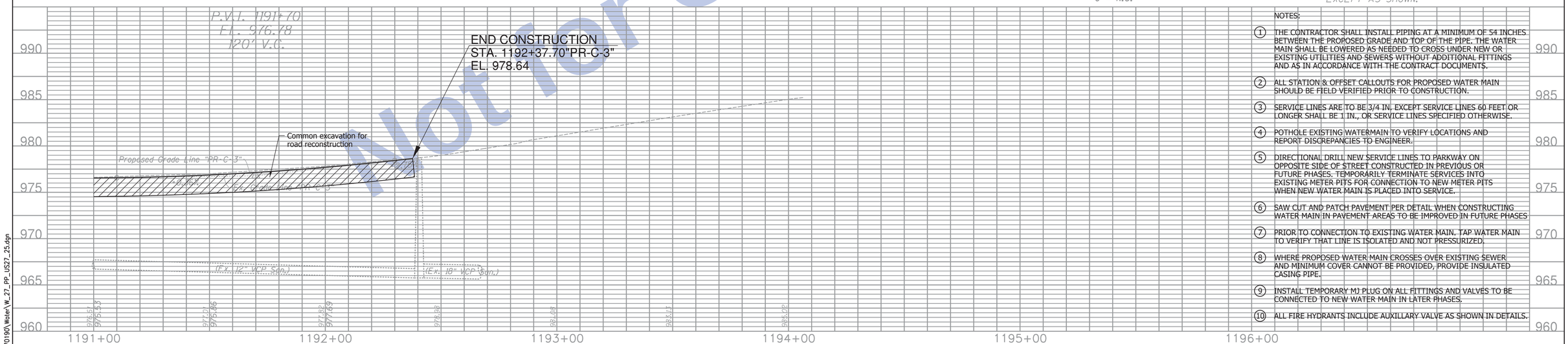
CURVE DATA

P.I. 1199+41.96"C"
Δ = 15° 59' 52" (RT)
D = 2° 00' 15"
T = 401.74'
L = 798.25'
R = 2,858.91'
E = 28.09'
e = N.C.

TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LINE "PR-C-3" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-C-3", EXCEPT AS SHOWN.



NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN. TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Not for Construction

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 27

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	29 of 47
CONTRACT	PROJECT
	1592393

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SEC. 32, T14N, R1W
WAYNE TWP.
WAYNE CO.

SEC. 33, T14N, R1W
WAYNE TWP.
WAYNE CO.

US 27 / Chester Blvd.

50+00

+15"PR-C-3"
STR. No. 195
(See US 27 Plan & Profile)

MARCUM, HAROLD D.

MORGUSON PROPERTIES, LLC

+28
STR. No. 196
C.B. B-15 & 6' of 12" Pipe Req'd.

+28, 22'
STR. No. 194
M.H. C-4 & 95' of 12" Pipe Req'd.

+75
STR. No. 246
C.B. B-15 & 6' of 12" Pipe Req'd.

+72, 26'
STR. No. 247
M.H. C-4 & 45' of 15" Pipe Req'd.

MINT MANAGEMENT, LLC.

+65
STR. No. 251
C.B. B-15 & 4' of 12" Pipe Req'd.

+65, 24'
STR. No. 252
M.H. C-4 & 86' of 12" Pipe Req'd.

+17 Cl. III Dr., Req'd.
W = 30'

+21.8 Cl. III Dr., Req'd.
W = 35.1'

+95
60'

+P
60'

+P
Ex. R/W

Temp. R/W for Dr. Constr.

Constr. Limits

+22"PR-C-3", 39' Rt.
Install 12" Gate Valve

LINE "C" (N 0°43'10" E)
LINE "PR-C-3" (N 0°42'56" E)
Ex. Sec. Line

12" W

R 60'

R 30'

8" W

90°00'30"

LINE "PR-S-121"
S 89°16'34" E

P.O.T. 47+50.00"PR-S-121"

BEGIN CONSTRUCTION
STA. 50+36.70"PR-S-121"
[Monument, Type B Req'd.]

North "J" St.
SR 121 / SR 227

MATCH LINE STA. 52+50 "PR-S-121"

+28
STR. No. 193
C.B. B-15 & 35' of 12" Pipe Req'd.

+24"PR-C-3"
STR. No. 191
(See US 27 Plan & Profile)

+02"PR-C-3", 43' Rt.
Install 8" Gate Valve

+89"PR-C-3", 38' Rt.
Install 12" Gate Valve

Remove

Saw Cut

+31.6, 24.9'
STR. No. 415
Adjust Casting to Grade Req'd.

+34.1, 47.9'
STR. No. 250
15" PCB & 36' of 12" Pipe Req'd.

1015
MILLER, JOHN W

+01, 37.7'
STR. No. 249
15" PCB & 18' of 12" Pipe Req'd.

+80
STR. No. 253
Inlet B-15 & 44' of 12" Pipe Req'd.

+71.4, 21.1'
STR. No. 515
Adjust Casting to Grade Req'd.

Alley

WHITE, GEORGE CLEO & BOBBYE JEWEL

CHOICE CARS, INC

+85
STR. No. 248
C.B. C-15 & 53' of 12" Pipe Req'd.

+59.7"PR-C-3", 25.3'
STR. No. 192
(See US 27 Plan & Profile)

J & MW HOLDINGS LLC

P.O.T. 50+00.00"PR-S-121" =
P.O.T. 1218+85.13"C"

P.O.T. 50+00.01"PR-S-121" =
P.O.T. 1218+84.98"PR-C-3"
[Monument, Type B Req'd.]

LINE "PR-S-121" TO BE CONSTRUCTED

ALL R/W DESCRIBED FROM LINE "PR-S-121", EXCEPT AS SHOWN.

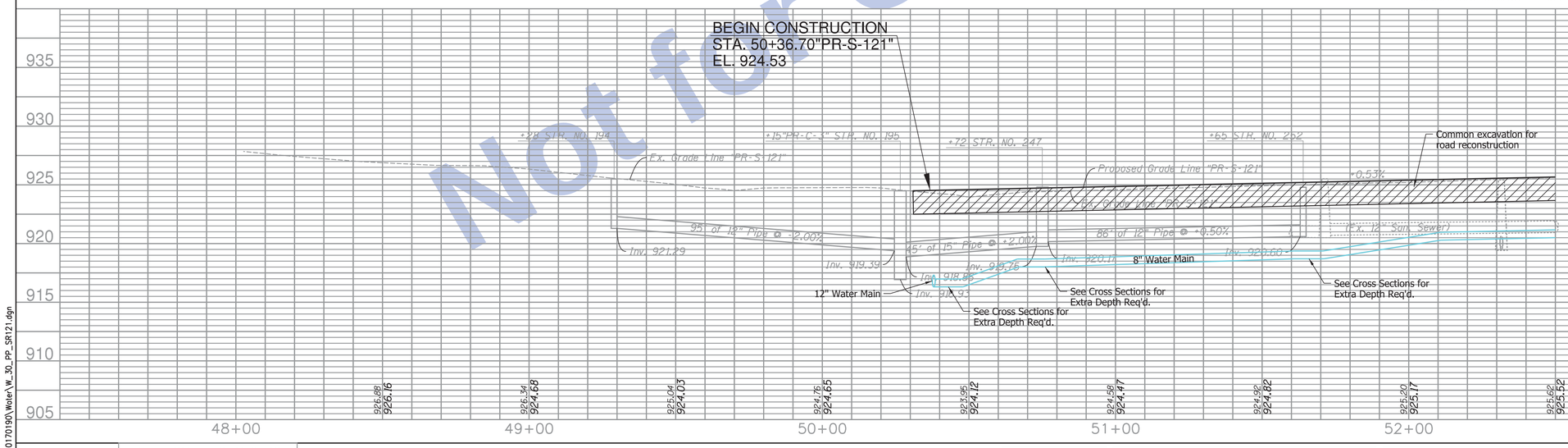
TO CLARIFY LANE USAGE, PAVEMENT MARKINGS SHOWN IN GREY.

LEGEND

- (C1) PCCP for Approaches, 9 in. on Subgrade Treatment Type II
- (CW) Curb Walk, Concrete
- (D1) HMA for Approaches 165#/syd. HMA Surface on 275#/syd. HMA Intermediate on 880#/syd. HMA Base on Subgrade Treatment Type II
- (E1) HMA For Approaches (See Typical Sections)
- (F) Sidewalk, Concrete
- (K1) Full Depth QC/QA-HMA Pavement (See Typical Sections)
- (P2) HMA for Structure Installation, Type C 165#/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 330#/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 385#/syd QC/QA-HMA, 3, 64, Base, 19.0 mm, on 330#/syd QC/QA-HMA, 3, 64, Base, 19.0 mm on Subgrade Treatment, Type IV
- (R) Surface Milling (1" Depth) and Asphalt Resurfacing 165 #/Syd. QC/QA-HMA, 4.76, Surface 9.5 mm, on Variable Depth QC/QA-HMA, 4.76, Intermediate 19.0 mm (275 #/Syd. min.)
- (W) HMA for Widening, Type C 165#/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm, on 330#/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm, on 385#/syd QC/QA-HMA, 3, 64, Base, 19.0 mm, on 330#/syd QC/QA-HMA, 3, 64, Base, 19.0 mm on Subgrade Treatment, Type IV
- (15) Concrete Curb & Gutter
- (26) Sodding, Nursery
- (1) Perpendicular Conc. Curb Ramp
- (2) Parallel Conc. Curb Ramp

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant



NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
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10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

SEE SHEETS 11 & 12 FOR REFERENCE POINTS

Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
SR 121

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
-	30 of 47
CONTRACT	PROJECT
-	1592393

Not for Construction

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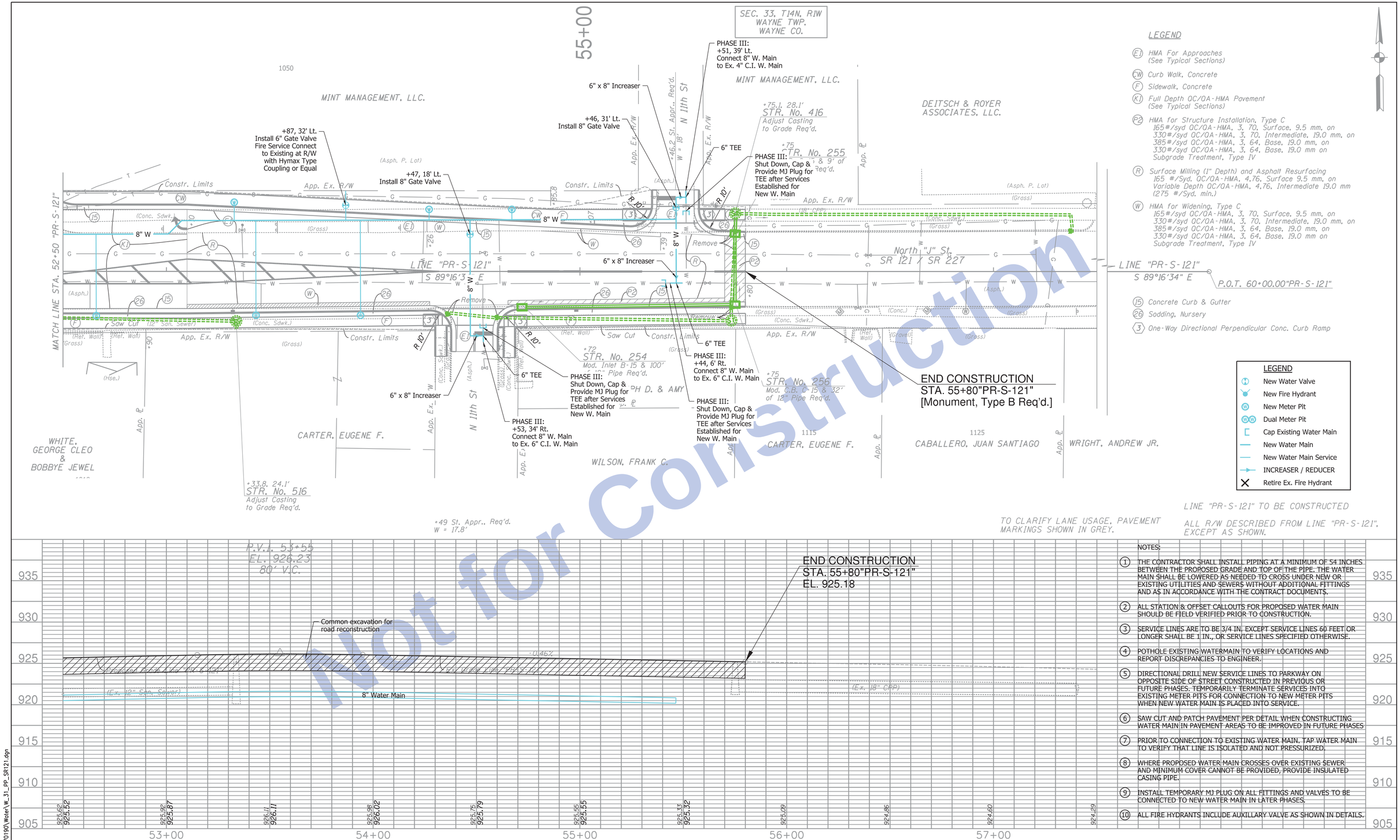

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SEE SHEETS 11 & 12
FOR REFERENCE POINTS

Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
SR 121

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
	31 of 47
CONTRACT	PROJECT
	1592393

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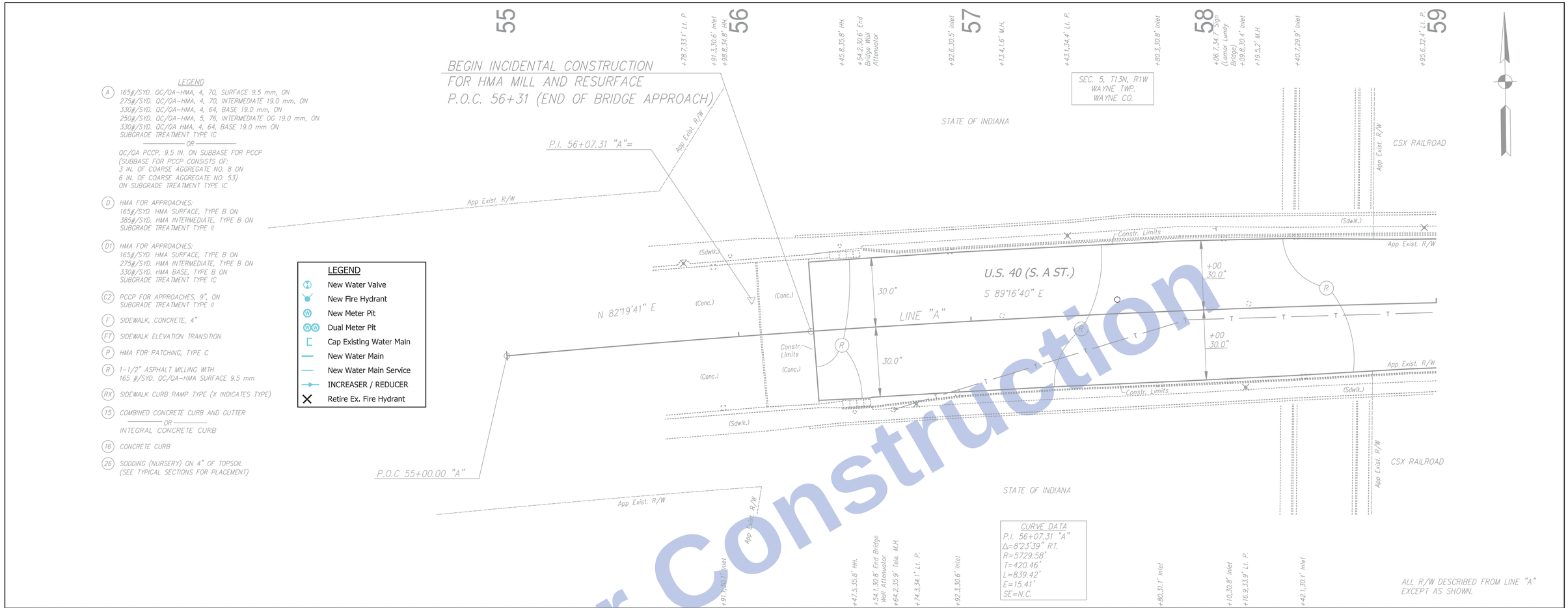

LEGEND

(A) 165#/SYD. OC/OA-HMA, 4, 70, SURFACE 9.5 mm, ON
275#/SYD. OC/OA-HMA, 4, 70, INTERMEDIATE 19.0 mm, ON
330#/SYD. OC/OA-HMA, 4, 64, BASE 19.0 mm, ON
250#/SYD. OC/OA-HMA, 5, 76, INTERMEDIATE OC 19.0 mm, ON
330#/SYD. OC/OA HMA, 4, 64, BASE 19.0 mm ON
SUBGRADE TREATMENT TYPE IC
— OR —
OC/OA PCCP, 9.5 IN. ON SUBBASE FOR PCCP
(SUBBASE FOR PCCP CONSISTS OF:
3 IN. OF COARSE AGGREGATE NO. 8 ON
6 IN. OF COARSE AGGREGATE NO. 53)
ON SUBGRADE TREATMENT TYPE IC

(D) HMA FOR APPROACHES:
165#/SYD. HMA SURFACE, TYPE B ON
385#/SYD. HMA INTERMEDIATE, TYPE B ON
SUBGRADE TREATMENT TYPE II

(D1) HMA FOR APPROACHES:
165#/SYD. HMA SURFACE, TYPE B ON
275#/SYD. HMA INTERMEDIATE, TYPE B ON
330#/SYD. HMA BASE, TYPE B ON
SUBGRADE TREATMENT TYPE IC

(C2) PCCP FOR APPROACHES, 9", ON
SUBGRADE TREATMENT TYPE II

(F) SIDEWALK, CONCRETE, 4"

(FT) SIDEWALK ELEVATION TRANSITION

(P) HMA FOR PATCHING, TYPE C

(R) 1-1/2" ASPHALT MILLING WITH
165 #/SYD. OC/OA-HMA SURFACE 9.5 mm

(RX) SIDEWALK CURB RAMP TYPE (X INDICATES TYPE)

(15) COMBINED CONCRETE CURB AND GUTTER
— OR —
INTEGRAL CONCRETE CURB

(16) CONCRETE CURB

(26) SODDING (NURSERY) ON 4" OF TOPSOIL
(SEE TYPICAL SECTIONS FOR PLACEMENT)

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
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6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

Not for Construction

Clark Dietz
ENGINEERS

NO REFERENCES AVAILABLE	NO REFERENCES AVAILABLE
N 56043.9589	N 56066.7848
E 46978.7097	E 47084.0761
P.O.C. 55+00.00 "A"	P.I. 56+07.31 "A"

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
U.S. 40 (S. A ST.)

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	32 of X
CONTRACT	PROJECT
.	1592393

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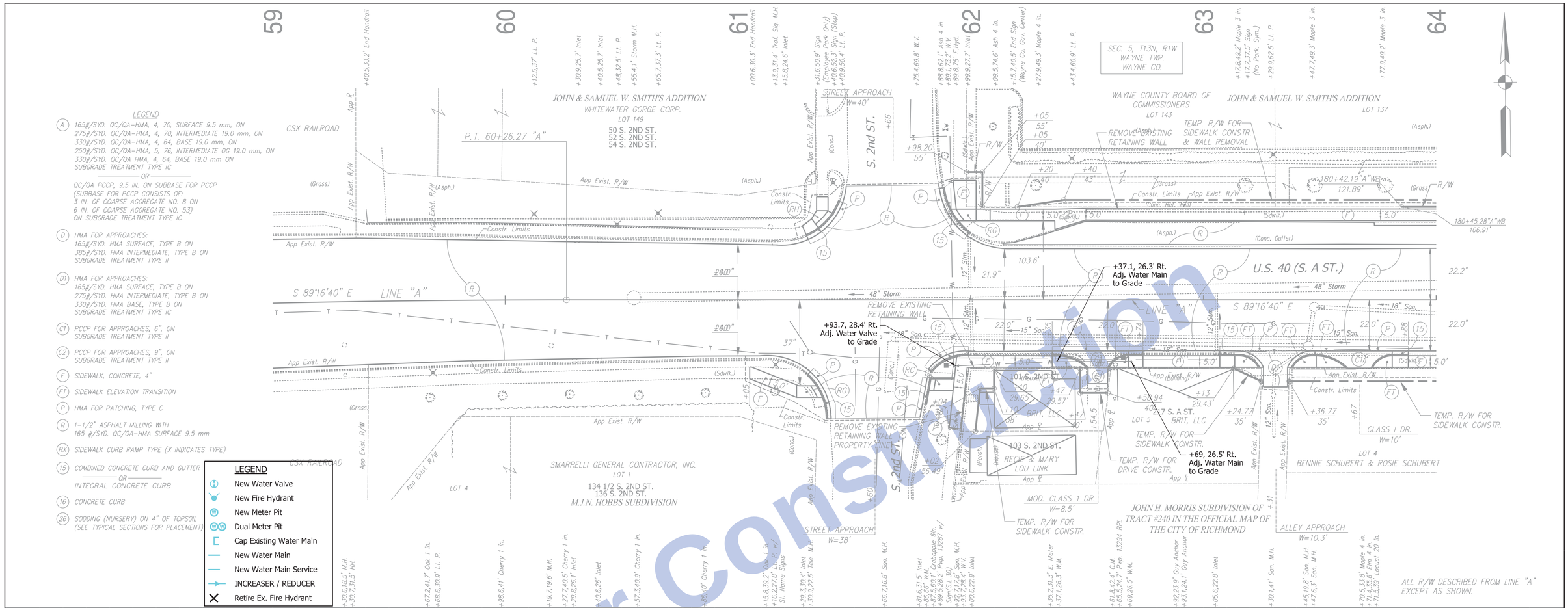

LEGEND

(A) 165#/SYD. QC/QA-HMA, 4, 70, SURFACE 9.5 mm, ON
275#/SYD. QC/QA-HMA, 4, 70, INTERMEDIATE 19.0 mm, ON
330#/SYD. QC/QA-HMA, 4, 64, BASE 19.0 mm, ON
250#/SYD. QC/QA-HMA, 5, 76, INTERMEDIATE QG 19.0 mm, ON
330#/SYD. QC/QA HMA, 4, 64, BASE 19.0 mm ON
SUBGRADE TREATMENT TYPE IC
— OR —
QC/QA PCCP, 9.5 IN. ON SUBBASE FOR PCCP
(SUBBASE FOR PCCP CONSISTS OF:
3 IN. OF COARSE AGGREGATE NO. 8 ON
6 IN. OF COARSE AGGREGATE NO. 53)
ON SUBGRADE TREATMENT TYPE IC

(D) HMA FOR APPROACHES:
165#/SYD. HMA SURFACE, TYPE B ON
385#/SYD. HMA INTERMEDIATE, TYPE B ON
SUBGRADE TREATMENT TYPE II

(D1) HMA FOR APPROACHES:
165#/SYD. HMA SURFACE, TYPE B ON
275#/SYD. HMA INTERMEDIATE, TYPE B ON
330#/SYD. HMA BASE, TYPE B ON
SUBGRADE TREATMENT TYPE IC

(C1) PCCP FOR APPROACHES, 6", ON
SUBGRADE TREATMENT TYPE II

(C2) PCCP FOR APPROACHES, 9", ON
SUBGRADE TREATMENT TYPE II

(F) SIDEWALK, CONCRETE, 4"

(FT) SIDEWALK ELEVATION TRANSITION

(P) HMA FOR PATCHING, TYPE C

(R) 1-1/2" ASPHALT MILLING WITH
165 #/SYD. QC/QA-HMA SURFACE 9.5 mm

(RX) SIDEWALK CURB RAMP TYPE (X INDICATES TYPE)

(15) COMBINED CONCRETE CURB AND GUTTER
— OR —
INTEGRAL CONCRETE CURB

(16) CONCRETE CURB

(26) SODDING (NURSERY) ON 4" OF TOPSOIL
(SEE TYPICAL SECTIONS FOR PLACEMENT)

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

NOTES:

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5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
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9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

T.B.M. NO. 18 — Cut "X" on the east bonnet bolt of fire hydrant at the NW corner of S. A St. & E. 9th St. Existing TBM from INDOT Des No. 0100701 U.S. 27 Sta. 85+06.56, 39.00' Lt. NAVD 88 Elev. 978.824

T.B.M. NO. 19 — Cut "X" on the west bonnet bolt of fire hydrant on the west side of E. 9th St., approx. 150 feet south of the centerline of N. A St. Existing TBM from INDOT Des No. 0100701 U.S. 27 Sta. 151+37.28, 157.33' Lt. NAVD 88 Elev. 981.127

N 56061.4846
E 47504.5027
SOUTH A ST. (U.S. 40)
"A" (IRON PIN IN BOX)
CUT "X" ON CURB E. END OF CURB INLET Az. 185°/27.18'
CUT "X" ON CURB W. END OF CURB INLET Az. 15°/27.10'
CUT "X" ON CURB W. END OF CURB INLET Az. 155°/31.24'
P.O.T. 60+26.27 "A"

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
U.S. 40 (S. A ST.)

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	33 of X
CONTRACT	PROJECT
.	1592393

Not for Construction

8:04:14 PM 8/25/2016 P:\0150090_IN Amer Water - US 27-US 40 Water Main\Water\W_02 PNP_S_A_St.dgn

LEGEND

(A) 165#/SYD. OC/OA–HMA, 4, 70, SURFACE 9.5 mm, ON 275#/SYD. OC/OA–HMA, 4, 70, INTERMEDIATE 19.0 mm, ON 330#/SYD. OC/OA–HMA, 4, 64, BASE 19.0 mm, ON 250#/SYD. OC/OA–HMA, 5, 76, INTERMEDIATE OG 19.0 mm, ON 330#/SYD. OC/OA HMA, 4, 64, BASE 19.0 mm ON SUBGRADE TREATMENT TYPE IC

— OR —

OC/OA PCCP, 9.5 IN. ON SUBBASE FOR PCCP (SUBBASE FOR PCCP CONSISTS OF: 3 IN. OF COARSE AGGREGATE NO. 8 ON 6 IN. OF COARSE AGGREGATE NO. 53) ON SUBGRADE TREATMENT TYPE IC

(D) HMA FOR APPROACHES: 165#/SYD. HMA SURFACE, TYPE B ON 385#/SYD. HMA INTERMEDIATE, TYPE B ON SUBGRADE TREATMENT TYPE II

(D1) HMA FOR APPROACHES: 165#/SYD. HMA SURFACE, TYPE B ON 275#/SYD. HMA INTERMEDIATE, TYPE B ON 330#/SYD. HMA BASE, TYPE B ON SUBGRADE TREATMENT TYPE IC

(C2) PCCP FOR APPROACHES, 9", ON SUBGRADE TREATMENT TYPE II

(F) SIDEWALK, CONCRETE, 4"

(FT) SIDEWALK ELEVATION TRANSITION

(P) HMA FOR PATCHING, TYPE C

(R) 1–1/2" ASPHALT MILLING WITH 165 #/SYD. OC/OA–HMA SURFACE 9.5 mm

(RX) SIDEWALK CURB RAMP TYPE (X INDICATES TYPE)

(15) COMBINED CONCRETE CURB AND GUTTER — OR — INTEGRAL CONCRETE CURB

(16) CONCRETE CURB

(26) SODDING (NURSERY) ON 4" OF TOPSOIL (SEE TYPICAL SECTIONS FOR PLACEMENT)

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

CURVE DATA
P.I. 64+59.57 "PR–1"
Δ=5°11'43" RT.
R=1000.00'
T=45.37'
L=90.67'
E=1.03'
SE=N.C.

END INCIDENTAL CONSTRUCTION FOR HMA MILL AND RESURFACE
BEGIN PROJECT NO. 1592393
P.O.T. 65+30.00 "A"

P.O.T. 64+14.20 "A"(BACK)= P.C. 64+14.20 "PR–1"(AHEAD)

P.O.T. 65+04.87 "PR–1"(BACK)= P.O.T. 65+04.94 "A"(AHEAD)

P.I. 64+59.57 "A"= P.I. 64+59.57 "PR–1"

P.O.T. 65+07.35 "A" (EB)= P.I. 180+87.21 "A" (WB)

SEC. 5, T13N, R1W WAYNE TWP. WAYNE CO.

JOHN SMITH ORIGINAL PLAT OF THE CITY OF RICHMOND

WAYNE COUNTY BOARD OF COMMISSIONERS

WAYNE COUNTY JAIL HOLDING CORPORATION

U.S. 40 (S. A ST.)

S. 4TH ST.

S. 3RD ST.

LINE "A"

LINE "PR–1"

+00 LT. STR. NO. 11 — Exist. Storm Manhole No Change Req'd.

+50 LT. STR. NO. 14 — Inlet Type "M–10" and 4' of 12" Pipe Req'd.

+12.7 LT. STR. NO. 15 — Exist. Storm Manhole Adjust Casting to Grade

+73.6 LT. STR. NO. 18 — Exist. Storm Manhole Adjust Casting to Grade

+52 LT. STR. NO. 16 — Inlet Type "M–10" and 37' of 12" Pipe Req'd.

+05 LT. STR. NO. 20 — Inlet Type "J–10" and 3' of 12" Pipe Req'd.

+05 LT. STR. NO. 21 — Manhole Type "C–4" and 27' of 15" Pipe Req'd.

+30 RT. STR. NO. 22 — Inlet Type "J–10" and 37' of 12" Pipe Req'd.

+00 RT. STR. NO. 19 — Inlet Type "J–10" and 52' of 12" Pipe Req'd.

+40 RT. STR. NO. 13 — Inlet Type "M–10" and 11' of 12" Pipe Req'd. (Includes 2' for 1 Horizontal Bend)

+19.8 RT. STR. NO. 12 — Inlet Type "J–10" and 5' of 12" Pipe Req'd.

+52 RT. STR. NO. 17 — Inlet Type "J–10" and 35' of 12" Pipe Req'd.

STREET APPROACH W=64'

STREET APPROACH W=39'

CLASS III DR. W=28'

TEMP. R/W FOR SIDEWALK CONSTR. & WALL REMOVAL

TEMP. R/W FOR SIDEWALK CONSTR.

TEMP. R/W FOR DRIVE CONSTR.

REMOVE TREES

DO NOT DISTURB LANDSCAPING ISLAND

TEMP. R/W FOR SIDEWALK AND DRIVE CONSTR. APPROACH W=20.5'

DO NOT DISTURB LANDSCAPING ISLAND

+87, 21' Lt. Install 8" Gate Valve

6" x 8" Increaser

+93, 30' Lt. Connect 8" W. Main to Ex. 6" C.I. W. Main

6" TEE

Shut Down & Cap Ex. 6" C.I. W. Main & Provide MJ Plug in TEE after Services Established for New W. Main

+54.8, 48.2' Rt. Adj. Water Meter to Grade

+56.6, 48.1' Rt. Adj. Water Valve to Grade

+89, 48' Rt. Connect 8" W. Main to Ex. 6" C.I. W. Main

Shut Down & Cap Ex. 6" C.I. W. Main & Provide MJ Plug in TEE after Services Established for New W. Main

6" x 8" Increaser

6" TEE

8" W.

8" Son.

MATCH EXISTING SIDEWALK JOINT

PREMIERE MORTGAGE & FINANCIAL SERVICES, INC. 303

THE SALVATION ARMY, INC. 100 S. 4TH ST.

103 S. 4TH ST.

HOMAS A. DICKMAN & LOU E. DICKMAN

BENNIE SCHUBERT & ROSIE SCHUBERT LOT 4

A. WILLIAMS 1ST ADDITION

A. WILLIAMS 2ND ADDITION

JOHN SMITH ORIGINAL PLAT OF THE CITY OF RICHMOND

LINE "PR–1" TO BE CONSTRUCTED.

ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS SHOWN.

SEE TYPICAL CROSS SECTIONS FOR ALTERNATE PAVEMENT SECTIONS

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

P.V.I. 67+45
EL. 973.44
100' V.C.

T.B.M. NO. 1.3 — Cut "X" on the south bonnet bolt of fire hydrant at NE corner of S. A St. & 3rd St. Sta. 180+44.36, 36.23' Lt. Elev. 967.75

Existing Profile Line "A"

PROFILE GRADE LINE "A"

Rim 968.86

Rim 965.17

Rim 973.64

+0.75%

+0.70%

15" PIPE @ +0.70%

INV. 968.90

INV. 969.09

STORM SEWER REQ'D. LT. PLOTTED AT DATUM

Common excavation for road reconstruction

See Cross Sections for Extra Depth Req'd.

Existing Profile Line "PR–1"

Exist. 48" Storm

Exist. 18" Son.

Exist. 60" Storm

Inv. 953.59

Inv. 953.39

Inv. 956.06

Inv. 956.21

Inv. 953.63

Inv. 964.02

Inv. 963.82

+00 LT. STR. NO. 11

+12.7 LT. STR. NO. 15

+78.6 LT. STR. NO. 18

+05 LT. STR. NO. 21

64+00 65+00 66+00 67+00 68+00 69+00

975 970 965 960 955 950

CUT "X" ON CURB ±11' W. H.C. RAMP Az. 345°/42.43'
IN 56056.0224
E 47937.7683
(IRON PIN IN BOX)
SOUTH A ST. (U.S. 40)
"A"
NW COR. OF HOUSE (100 S. 3RD ST.) Az. 235°/46.38'
NE COR. OF HOUSE (100 S. 3RD ST.) Az. 192°/31.25'
P.I. 64+59.57 "A"

N 56051.1084
E 47985.2905
(WB U.S. 40)
SOUTH A ST. (EB U.S. 40)
(MAG. NAIL SET) "A" (EB U.S. 40)
CUT "X" ON NE BOLT LIGHT POLE BASE Az. 130°/35.82'
NW COR. OF BLDG. (303 S. A ST.) Az. 150°/40.90'
NE COR. OF BLDG. #2 (100 S. 3RD ST.) Az. 250°/58.40'
P.O.T. 65+07.35 "A" (EB)= P.I. 180+87.21 "A" (WB)

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE U.S. 40 (S. A ST.)

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	34 of X
CONTRACT	PROJECT
.	1592393

Not for Construction

8:04:16 PM 8/25/2016 P:\0150090_IN Amer Water – US 27–US 40 Water Main\Water\W_03 PNP_S_A_St.dgn

LEGEND

(A) 165#/SYD. QC/QA-HMA, 4, 70, SURFACE 9.5 mm, ON
275#/SYD. QC/QA-HMA, 4, 70, INTERMEDIATE 19.0 mm, ON
330#/SYD. QC/QA-HMA, 4, 64, BASE 19.0 mm, ON
250#/SYD. QC/QA-HMA, 5, 76, INTERMEDIATE OG 19.0 mm, ON
330#/SYD. QC/QA HMA, 4, 64, BASE 19.0 mm ON
SUBGRADE TREATMENT TYPE IC
OR
QC/QA PCCP, 9.5 IN. ON SUBBASE FOR PCCP
(SUBBASE FOR PCCP CONSISTS OF:
3 IN. OF COARSE AGGREGATE NO. 8 ON
6 IN. OF COARSE AGGREGATE NO. 53)
ON SUBGRADE TREATMENT TYPE IC

(D) HMA FOR APPROACHES:
165#/SYD. HMA SURFACE, TYPE B ON
385#/SYD. HMA INTERMEDIATE, TYPE B ON
SUBGRADE TREATMENT TYPE II

(D1) HMA FOR APPROACHES:
165#/SYD. HMA SURFACE, TYPE B ON
275#/SYD. HMA INTERMEDIATE, TYPE B ON
330#/SYD. HMA BASE, TYPE B ON
SUBGRADE TREATMENT TYPE IC

(C2) PCCP FOR APPROACHES, 9", ON
SUBGRADE TREATMENT TYPE II

(F) SIDEWALK, CONCRETE, 4"

(FT) SIDEWALK ELEVATION TRANSITION

(P) HMA FOR PATCHING, TYPE C

(RX) SIDEWALK CURB RAMP TYPE (X INDICATES TYPE)

(15) COMBINED CONCRETE CURB AND GUTTER
OR
INTEGRAL CONCRETE CURB

(16) CONCRETE CURB

(26) SODDING (NURSERY) ON 4" OF TOPSOIL
(SEE TYPICAL SECTIONS FOR PLACEMENT)

JOHN SMITH ORIGINAL PLAT OF THE CITY OF RICHMOND

+22 LT. STR. NO. 23
Inlet Type "J-10" and 3' of 12" Pipe Req'd.

+22 LT. STR. NO. 24
Manhole Type "C-4" and 114' of 15" Pipe Req'd.

P.O.T. 69+00.84 "A"(BACK)=
P.C. 69+00.84 "PR-2"(AHEAD)

+22 RT. STR. NO. 25
Inlet Type "J-10" and 28' of 12" Pipe Req'd.

P.I. 69+48.50 "A"=
P.I. 69+48.50 "PR-2"

P.C. 70+62.96 "PR-3"(AHEAD)=
P.O.T. 70+62.96 "A"(BACK)

P.T. 69+96.08 "PR-2"(BACK)=
P.O.T. 69+96.15 "A"(AHEAD)

P.I. 71+10.98 "A"=
P.I. 71+10.98 "PR-3"

CURVE DATA
P.I. 71+10.98 "PR-3"
Δ=5°29'56" LT.
R=1000.00'
T=48.02'
L=95.97'
E=1.15'
SE=N.C.

P.T. 71+58.93 "PR-3"(BACK)=
P.O.T. 71+59.01 "A"(AHEAD)

+00 LT. STR. NO. 26
Inlet Type "J-10" and 3' of 12" Pipe Req'd.

+00 LT. STR. NO. 27
Manhole Type "C-4" and 108' of 15" Pipe Req'd.

+00 RT. STR. NO. 28
Inlet Type "J-10" and 28' of 12" Pipe Req'd.
(Intercept Sump Drain from Fire Station and Connect to Str. 28 with 40' of 2" P.V.C.)

SEC. 5, T13N, R1W
WAYNE TWP.
WAYNE CO.

U.S. 40 (S. A ST.)
LINE "A"
LINE "PR-2"
LINE "PR-3"
S 84°04'57" E
S 78°37'32" E
S 84°07'28" E

S. 5TH ST.
100 S. 5TH ST.
101 S. 5TH ST.

WAYNE COUNTY JAIL HOLDING CORPORATION
WAYTRU BANCORP
CITY OF RICHMOND
THOMAS A. DICKMAN & LOU E. DICKMAN
PRIME REALTY, LLC

STREET APPROACH W=40'
STREET APPROACH W=38.9'
MOD. CLASS III DR. W=14'
MOD. CLASS III DR. W=10.1'

SIGNALS

TEMP. R/W FOR DRIVE CONSTR.
TEMP. R/W FOR SIDEWALK CONSTR.
TEMP. R/W FOR DRIVE & SIDEWALK CONSTR.
TEMP. R/W FOR DRIVE, SIDEWALK & CURB CONSTR.
DO NOT DISTURB BUILDING OR OVERHANG
DO NOT DISTURB LIMESTONE SLAB OR STEPS
DO NOT DISTURB GAS METER

LINE "PR-2" AND LINE "PR-3" TO BE CONSTRUCTED.

ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS SHOWN.

SEE TYPICAL CROSS SECTIONS FOR ALTERNATE PAVEMENT SECTIONS

LEGEND
- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

CURVE DATA
P.I. 69+48.50 "PR-2"
Δ=5°27'25" RT.
R=1000.00'
T=47.66'
L=95.24'
E=1.13'
SE=N.C.

NOTES:
1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

-PROFILE GRADE LINE "PR-2"
-PROFILE GRADE LINE "A"
PROFILE GRADE LINE "A"
PROFILE GRADE LINE "PR-3"

Existing Profile Line "PR-2"
Existing Profile Line "PR-3"
Existing Profile Line "A"

STA. 69+96.08 "PR-2"(BACK)=
STA. 69+96.11 "A"(AHEAD)
STA. 70+62.96 "A"(BACK)=
STA. 70+62.96 "PR-3"(AHEAD)
STA. 71+58.93 "PR-3"(BACK)=
STA. 71+59.01 "A"(AHEAD)

+0.45%
-2.40%
-0.50%

P.V.I. 71+11.25
ELEV. 976.25
V.C.=100'
P.V.I. 73+95
ELEV. 970.05
V.C.=300'

Common excavation for road reconstruction

Inv. 957.02
Inv. 957.17
Exist. 18" San.
Inv. 957.89
Inv. 957.86
Exist. 18" San.
RIM 972.06
Rim 972.52
INV. 967.41
15" PIPE @ -0.50%
STORM SEWER REV'D TO PLOTTED AT DATUM
+00 LT. STR. NO. 27

T.B.M. NO. 1
Cut "X" on the south bonnet bolt of fire hydrant at SE corner of S. A St. & 5th St.
Sta. 71+40.15, 36.36' Rt. Elev. 978.10

69+00 70+00 71+00 72+00 73+00 74+00

N 56005.6155
E 48424.0885
S. FACE OF "ONE WAY" SIGN Az. 5°/26.00'
SOUTH A ST. (U.S. 40)
"A" (MAG NAIL SET)
CUT "X" ON CURB AT MID RADIUS Az. 220°/23.24'
NW COR. BLDG. (100 S. 5TH ST.) Az. 170°/31.81'
P.I. 69+48.50 "A"

N 55973.5695
E 48583.3865
SW COR. CONC. TRAF. CNTRL BASE Az. 40°/46.65'
NW COR. OF BRICK BLDG. (100 S. 5TH ST.) Az. 236°/51.12'
CUT "X" ON NE BOLT TRAF. SIGNAL BASE Az. 140°/41.90'
P.I. 71+10.98 "A"

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

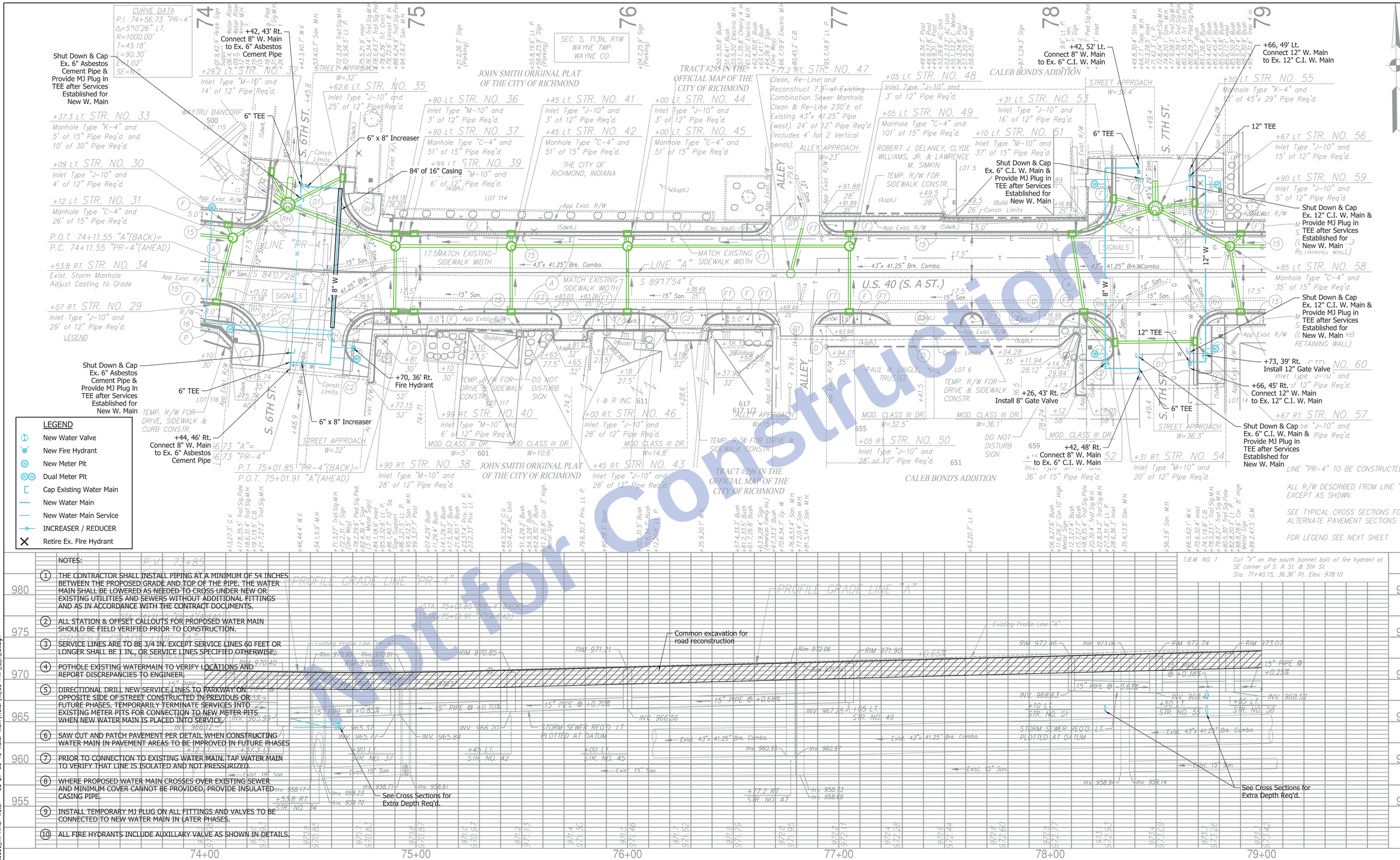
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
U.S. 40 (S. A ST.)

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	35 of X
CONTRACT	PROJECT
.	1592393

Not for Construction

8:04:18 PM 8/25/2016 P:\0150090_IN Amer Water - US 27-US 40 Water Main\Water\W_04 PNP_S_A_St.dgn



Not for Construction

Clark Dietz ENGINEERS

CUT "X" ON NE BOLT LIGHT POLE BASE Az. 310°47.37'
SW COR. CONC. TRAF. CNTRL BASE Az. 337°43.11'
SOUTH A ST. (U.S. 40)
"A" (MAG NAIL SET)
CUT "X" ON NE BOLT LIGHT POLE BASE Az. 135°36.72'
N 55938.1754
E 48927.3148
P.I. 74+56.73 "A"

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE U.S. 40 (S. A ST.)

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	36 of X
CONTRACT	PROJECT
.	1592393

8:04:20 PM 8/25/2016 P:\0150090_IN Amer Water - US 27-US 40 Water Main\Water\W_05 PNP_S_A_St.dgn

LEGEND

(A) 165#/SYD. OC/OA–HMA, 4, 70, SURFACE 9.5 mm, ON 275#/SYD. OC/OA–HMA, 4, 70, INTERMEDIATE 19.0 mm, ON 330#/SYD. OC/OA HMA, 4, 64, BASE 19.0 mm, ON 250#/SYD. OC/OA–HMA, 5, 76, INTERMEDIATE OG 19.0 mm, ON 330#/SYD. OC/OA HMA, 4, 64, BASE 19.0 mm ON SUBGRADE TREATMENT TYPE IC
— OR —
OC/OA PCCP, 9.5 IN. ON SUBBASE FOR PCCP (SUBBASE FOR PCCP CONSISTS OF: 3 IN. OF COARSE AGGREGATE NO. 8 ON 6 IN. OF COARSE AGGREGATE NO. 53) ON SUBGRADE TREATMENT TYPE IC

(D) HMA FOR APPROACHES: 165#/SYD. HMA SURFACE, TYPE B ON 385#/SYD. HMA INTERMEDIATE, TYPE B ON SUBGRADE TREATMENT TYPE II

(D1) HMA FOR APPROACHES: 165#/SYD. HMA SURFACE, TYPE B ON 275#/SYD. HMA INTERMEDIATE, TYPE B ON 330#/SYD. HMA BASE, TYPE B ON SUBGRADE TREATMENT TYPE IC

(C2) PCCP FOR APPROACHES, 9", ON SUBGRADE TREATMENT TYPE II

(F) SIDEWALK, CONCRETE, 4"

(FT) SIDEWALK ELEVATION TRANSITION

(P) HMA FOR PATCHING, TYPE C

(RX) SIDEWALK CURB RAMP TYPE (X INDICATES TYPE)

(15) COMBINED CONCRETE CURB AND GUTTER
— OR —
INTEGRAL CONCRETE CURB

(16) CONCRETE CURB

(26) SODDING (NURSERY) ON 4" OF TOPSOIL (SEE TYPICAL SECTIONS FOR PLACEMENT)

LEGEND
- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

79 80 81 82 83 84

+80 LT. STR. NO. 62
Manhole Type "C–4" and 91' of 15" Pipe Req'd.

+80 RT. STR. NO. 63
Inlet Type "J–10" and 28' of 12" Pipe Req'd.

+19.7 RT. STR. NO. 64
Clean, Re–Line and Reconstruct 2'± of Exist. Combo. Sewer Manhole. Clean & Re–Line 340'± of Exist. 43"x 41.25" Pipe (west).

+80 LT. STR. NO. 61
Inlet Type "J–10" and 3' of 12" Pipe Req'd.

+83 LT. STR. NO. 65
Manhole Type "C–4" and 99' of 15" Pipe Req'd.

+97 LT. STR. NO. 67
Inlet Type "M–10" and 12' of 12" Pipe Req'd.

+83 RT. STR. NO. 66
Inlet Type "J–10" and 28' of 12" Pipe Req'd.

BEGIN PAVING EXCEPTION
P.O.T. 81+31.39 "A"

END PAVING EXCEPTION
P.O.T. 82+64.39 "A"

SEC. 5, T13N, R1W
WAYNE TWP.
WAYNE CO.

C.W. STARR'S 4TH ADDITION

C.W. STARR'S 3RD ADDITION

C.W. STARR'S 6TH ADDITION

WEST END SAVINGS BANK

RICHARD W. ARMSTRONG & DIXIE E. ARMSTRONG

JJR REALTY, LLP. LOT 6

FRANK E. LAHAMANN & JEANIE M. LAHAMANN, TRUSTEES

THE SALVATION ARMY 707

BIG BROTHERS, INC.

MICHAEL J. SELL & MAJORIE A. SELL 813

45 S. 7TH ST.

48 S. 8TH

U.S. 40 (S. A ST.)

LINE "A"

S 89°17'54" E

S 89°33'17" E

S. 27 SR (S. 8TH ST.)

8" W

SIGNALS

ALLEY APPROACH W=19.4'

ALLEY APPROACH W=11.6'

ALLEY APPROACH W=21.1'

ALLEY APPROACH W=14.2'

MOD. CLASS III DR. W=24'

MOD. CLASS III DR. W=26'

MOD. CLASS III DR. W=27.6'

MOD. CLASS III DR. W=9'

MOD. CLASS III DR. W=30'

TEMP. R/W FOR DRIVE & SIDEWALK CONSTR. (ACQUIRED UNDER CODE 5164 AS PARCEL 114A DES./PROJECT 0100701)

TEMP. R/W FOR DRIVE CONSTR. (ACQUIRED UNDER CODE 5164 AS PARCEL 114B DES./PROJECT 0100701)

R/W (ACQUIRED UNDER CODE 5164 AS PARCEL 114 DES./PROJECT 0100701)

R/W (ACQUIRED UNDER CODE 5164 AS PARCEL 115 DES./PROJECT 0100701)

TEMP. R/W FOR SIDEWALK CONSTR. (ACQUIRED UNDER CODE 5164 AS PARCEL 115A DES./PROJECT 0100701)

TEMP. R/W FOR SIDEWALK CONSTR. (ACQUIRED UNDER CODE 5164 AS PARCEL 53 DES./PROJECT 0100701)

R/W (ACQUIRED UNDER CODE 5164 AS PARCEL 113 DES./PROJECT 0100701)

R/W (ACQUIRED UNDER CODE 5164 AS PARCEL 112 DES./PROJECT 0100701)

TEMP. R/W FOR DRIVE & SIDEWALK CONSTR. (ACQUIRED UNDER CODE 5164 AS PARCEL 112A DES./PROJECT 0100701)

TEMP. R/W FOR DRIVE & SIDEWALK CONSTR. (ACQUIRED UNDER CODE 5164 AS PARCEL 112B DES./PROJECT 0100701)

TEMP. R/W FOR DRIVE & SIDEWALK CONSTR. (ACQUIRED UNDER CODE 5164 AS PARCEL 113A DES./PROJECT 0100701)

+64.2 LT. STR. NO. 68
Manhole Type "K–4" and 10' of 36" Pipe (east) and 10' of 42" Pipe (west) and 5' of 10" Pipe (south) Req'd. Clean & Re–Line 342'± of Exist. 43"x 41.25" Pipe (west).

+90 LT. STR. NO. 70
Inlet Type "M–10" and 29' of 12" Pipe Req'd.

+85 RT. STR. NO. 69
Inlet Type "J–10" and 26' of 12" Pipe Req'd.

+64.2 LT. STR. NO. 68

+80 LT. STR. NO. 62

+83 LT. STR. NO. 65

+19.7 RT. STR. NO. 64

+80 RT. STR. NO. 63

MATCH EXISTING SIDEWALK WIDTH (DO NOT DISTURB RETAINING WALL)

MATCH EXISTING SIDEWALK WIDTH

ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS SHOWN.

SEE TYPICAL CROSS SECTIONS FOR ALTERNATE PAVEMENT SECTIONS

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

P.V.I. 79+75
ELEV. 973.91
V.C. = 100'

PROFILE GRADE LINE "A"

Common excavation for road reconstruction

Rim 973.73
Rim 974.44
Rim 974.63
Rim 976.11
Rim 976.10

INV. 969.08
INV. 968.79
INV. 969.33
INV. 964.41±
INV. 964.55
INV. 964.44
INV. 964.76
INV. 962.63
Inv. 963.28
Inv. 963.15
Inv. 960.03
Inv. 960.15
Inv. 961.36

15" PIPE @ +0.25%
42" PIPE @ +0.35%
36" PIPE @ +0.73%

Exist. 43"x 41.25" Brk. Combo.
Exist. 15" San.
Exist. 34" Brick Combo.

STORM SEWER REC'D LT. PLOTTED AT DATUM

Existing Profile Line "A"

PAVING EXCEPTION FROM PROJECT DES. NO. 0100701

T.B.M. NO. 2 — Cut "X" on the east bonnet bolt of fire hydrant on E side of 8th St. ±150 feet north of ℄ of S. A St. Sta. 82+12.91, 80.45' Lt. Elev. 978.03

79+00 80+00 81+00 82+00 83+00 84+00

Clark Dietz ENGINEERS

N 55928.8522
E 49688.4832
P.I. 82+17.96 "A"

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
U.S. 40 (S. A ST.)

DESIGNED: GSG	DRAWN: MP
CHECKED: JDD	CHECKED: JDD

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	·
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
·	37 of X
CONTRACT	PROJECT
·	1592393

8:04:22 PM 8/25/2016 P:\0150090_IN Amer Water – US 27–US 40 Water Main\Water\W_06 PNP S_A_St.dgn

Not for Construction

SEC. 5, T13N, R1W
WAYNE TWP.
WAYNE CO.

SEC. 4, T13N, R1W
WAYNE TWP.
WAYNE CO.

C.W. STARR'S 8TH ADDITION

BEGIN PAVING EXCEPTION
P.O.T. 84+61.51 "A"
ROBBINS-MATHERLY-DILS AGENCY, INC.

END PAVING EXCEPTION
P.O.T. 86+12.51 "A"

TEMP. R/W FOR DRIVE CONSTR.
(ACQUIRED UNDER CODE 5164 AS
PARCEL 53A DES./PROJECT 0100701)

TEMP. R/W FOR SIDEWALK CONSTR.
(ACQUIRED UNDER CODE 5164 AS
PARCEL 53 DES./PROJECT
0100701)

TEMP. R/W FOR SIDEWALK CONSTR.
(ACQUIRED UNDER CODE 5164 AS
PARCEL 54 DES./PROJECT 0100701)

TEMP. R/W FOR SIDEWALK
CONSTR.
(ACQUIRED UNDER CODE 5164
AS PARCEL 54A DES./PROJECT
0100701)

TRACT #461 IN THE OFFICIAL MAP OF
THE CITY OF RICHMOND

BICKLE AND LAW'S ADDITION

JONATHAN MATTIS ADDITION

U.S. 27 NB (S. 9TH ST.)

U.S. 40 (S. A ST.)

S. 10TH ST.

ALLEY

ALLEY APPROACH
W=16.9'

LINE "A"
S 89°30'17" E
S 89°24'23" E

P.I. 89+21.44 "A"
Δ=0°08'54" RT.
(NO CURVE RUN)

+85 LT. STR. NO. 75
+75 LT. STR. NO. 76
+80 LT. STR. NO. 83
+80 LT. STR. NO. 84
+59 LT. STR. NO. 79
+85 RT. STR. NO. 73
+86.4 RT. STR. NO. 74
+71.5 RT. STR. NO. 71
+75 RT. STR. NO. 77
+75 RT. STR. NO. 78
+59 RT. STR. NO. 80
+59 RT. STR. NO. 81
+79 RT. STR. NO. 82
+80 RT. STR. NO. 85
+13 LT. STR. NO. 87
+13 LT. STR. NO. 89
+34 RT. STR. NO. 90
+34 RT. STR. NO. 91
+13 RT. STR. NO. 88

Inlet Type "M-10" and 31' of 12" Pipe Req'd.
Inlet Type "M-10" and 30' of 12" Pipe Req'd.
Inlet Type "M-10" and 41' of 15" Pipe Req'd.
Inlet Type "J-10" and 28' of 12" Pipe Req'd.
Inlet Type "M-10" and 34' of 12" Pipe Req'd.
Inlet Type "J-10" and 28' of 12" Pipe Req'd.
Manhole Type "K-4" and 10' of 36" Pipe (east) and 10' of 36" Pipe (west) and 23' of 12" Pipe (south) Req'd. Clean & Re-Line 305'± of Exist. 34" Pipe (west)
Inlet Type "J-10" and 4' of 12" Pipe Req'd.
Manhole Type "C-4" and 86' of 18" Pipe Req'd.
Inlet Type "J-10" and 3' of 12" Pipe Req'd.
Manhole Type "C-4" and 80' of 18" Pipe Req'd.
Inlet Type "J-10" and 3' of 12" Pipe Req'd.
Manhole Type "C-4" and 16' of 18" Pipe Req'd.
Inlet Type "M-10" and 17' of 12" Pipe Req'd.
Inlet Type "J-10" and 33' of 12" Pipe Req'd.
Manhole Type "C-4" and 51' of 15" Pipe Req'd.
Inlet Type "J-10" and 3' of 12" Pipe Req'd.

+06 LT. STR. NO. 86
+80 RT. STR. NO. 83

+04, 63' Lt. Connect 8" W. Main to Ex. 6" C.I. W. Main
+04, 61' Lt. Fire Hydrant
Retire Ex. Fire Hydrant
6" x 8" Increaser
6" TEE
Shut Down & Cap Ex. 6" C.I. W. Main & Provide MJ Plug in TEE after Services Established for New W. Main
+04, 60' Rt. Connect 8" W. Main to Ex. 6" C.I. W. Main

+85 LT. Where Proposed Sewer & Ex. Water Main Crossing is in Conflict or Required Separation Cannot be Maintained, Construct Sewer & Modify W. Main in Accordance with the Special Construction Requirements for Water Main Details

Re-Line and Reconstruct 2'± Exist. Combo. Sewer Manhole. Clean & Re-Line 52'± of Exist. 34" Pipe (west).

20 Ft. of 16" Casing See Details
40 Ft. of 16" Casing See Details
48' of 16" Casing
Assumed Ex. Water Main Location

8" W
8" TEE
8" Water Main

+88, 20' Rt. Install 8" Gate Valve
+88, 28' Rt. Install 8" Gate Valve
+93, 24' Rt. Install 8" Gate Valve

Shut Down & Cap Ex. 6" C.I. W. Main & Provide MJ Plug in TEE after Services Established for New W. Main

Assumed Ex. Water Main Location

MATCH EXISTING SIDEWALK WIDTH (DO NOT DISTURB RETAINING WALL)

MATCH EXISTING SIDEWALK JOINT

DO NOT DISTURB PINE TREES OR CONC. PAVERS

DO NOT DISTURB SIGN

ELAND BUILDING, LLC
LOT 28 (1 Sty. Building)
LOT 27
LOT 36
LOT 38
LOT 39
LOT 40
LOT 37
LOT 18
LOT 1
LOT 20
LOT 42

825 100 S. 9TH ST.
ALAN O. INGLIS & MARGARET T. INGLIS, TRUSTEES

901 MOD. CLASS III DR.
W=27.1'

DONALD LEON COMPTON & JANEL LOUISE COMPTON

TRUSTEES OF THE FIRST CHRISTIAN CHURCH OF RICHMOND

FIRST RICHMOND GROUP, LLC
MOD. CLASS III DR.
W=15.1'

MEDICAL INVESTMENTS, LLC

STREET APPROACH
W=35.9'

LELAND BUILDING, LLC

SIGNALS

LEGEND
- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

PAVING EXCEPTION FROM PROJECT DES. NO. 0100701

PROFILE GRADE LINE "A"

P.V.I. 87+30
ELEV. 977.62
V.C.=100'

P.V.I. 89+50
ELEV. 978.39
V.C.=100'

Existing Profile Line "A"

Common excavation for road reconstruction

See Cross Sections for Extra Depth Req'd.

T.B.M. NO. 18
Cut "X" on the east bonnet bolt of fire hydrant at the NW corner of S. A St. & E. 9th St. Existing TBM from INDOT Des No. 0100701 U.S. 27
Sta. 85+06.56, 39.00' Lt. NAVD 88 Elev. 978.824

84+00 85+00 86+00 87+00 88+00 89+00 90+00

CUT "X" ON NE BOLT LIGHT POLE BASE Az. 310°/55.37'
CUT "X" ON SW BOLT LIGHT POLE BASE Az. 15°/19.21'
10TH ST.
SOUTH A ST. (U.S. 40)
"X" (MAG NAIL SET)
CUT "X" ON N BASE TRAF. SIGNAL POLE Az. 180°/29.39'
N 55923.3853
E 50391.9509
P.I. 89+21.44 "A"

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
U.S. 40 (S. A ST.)

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
-	38 of X
CONTRACT	PROJECT
-	1592393

Not for Construction

8:04:25 PM 8/25/2016 P:\0150090_IN Amer Water - US 27-US 40 Water Main\Water\W_07 PNP_S_A_St.dgn

LEGEND

(A) 165#/SYD. OC/OA-HMA, 4, 70, SURFACE 9.5 mm, ON 275#/SYD. OC/OA-HMA, 4, 70, INTERMEDIATE 19.0 mm, ON 330#/SYD. OC/OA-HMA, 4, 64, BASE 19.0 mm, ON 250#/SYD. OC/OA-HMA, 5, 76, INTERMEDIATE OG 19.0 mm, ON 330#/SYD. OC/OA HMA, 4, 64, BASE 19.0 mm ON SUBGRADE TREATMENT TYPE IC
— OR —
OC/OA PCCP, 9.5 IN. ON SUBBASE FOR PCCP (SUBBASE FOR PCCP CONSISTS OF: 3 IN. OF COARSE AGGREGATE NO. 8 ON 6 IN. OF COARSE AGGREGATE NO. 53) ON SUBGRADE TREATMENT TYPE IC

(D) HMA FOR APPROACHES: 165#/SYD. HMA SURFACE, TYPE B ON 385#/SYD. HMA INTERMEDIATE, TYPE B ON SUBGRADE TREATMENT TYPE II

(D1) HMA FOR APPROACHES: 165#/SYD. HMA SURFACE, TYPE B ON 275#/SYD. HMA INTERMEDIATE, TYPE B ON 330#/SYD. HMA BASE, TYPE B ON SUBGRADE TREATMENT TYPE IC

(C2) PCCP FOR APPROACHES, 9", ON SUBGRADE TREATMENT TYPE II

(F) SIDEWALK, CONCRETE, 4"

(FT) SIDEWALK ELEVATION TRANSITION

(P) HMA FOR PATCHING, TYPE C

(RX) SIDEWALK CURB RAMP TYPE (X INDICATES TYPE)

(15) COMBINED CONCRETE CURB AND GUTTER
— OR —
INTEGRAL CONCRETE CURB

(16) CONCRETE CURB

(26) SODDING (NURSERY) ON 4" OF TOPSOIL (SEE TYPICAL SECTIONS FOR PLACEMENT)

LEGEND

- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

90 91 92

+88.3 LT. STR. NO. 95
Clean, Re-Line and Reconstruct 2'± of Exist. Combo. Sewer Manhole. Clean & Re-Line 360'± of Exist. 34" Pipe (west).

+13.6 LT. STR. NO. 99
Clean, Re-Line and Reconstruct 2'± of Exist. Combo. Sewer Manhole. Clean & Re-Line 123'± of Exist. 34" Pipe (west).

+60 LT. STR. NO. 92
Inlet Type "J-10" and 28' of 12" Pipe Req'd.

+37 LT. STR. NO. 100
Inlet Type "M-10" and 34' of 12" Pipe Req'd.

+71 LT. STR. NO. 96
Inlet Type "J-10" and 28' of 12" Pipe Req'd.

93+30 LT. STR. NO. 109
See Next Sheet

93+25 LT. STR. NO. 106
See Next Sheet

93+30 RT. STR. NO. 110
See Next Sheet

93+25 RT. STR. NO. 108
See Next Sheet

93+25 RT. STR. NO. 107
See Next Sheet

93+00 RT. STR. NO. 105
See Next Sheet

P.I.+34.8 RT. STR. NO. 104
Inlet Type "M-10" and 25' of 12" Pipe Req'd.

P.I.+10.4 RT. STR. NO. 103
Manhole Type "K-4" and 8' of 33" Pipe (east) and 22' of 33" Pipe (west) Req'd. Clean & Re-Line 80'± of Exist. 32" Pipe (west)

+49.7 RT. STR. NO. 102
Inlet Type "J-10" and 3' of 12" Pipe Req'd.

+49.7 RT. STR. NO. 101
Manhole Type "C-4" and 44' of 15" Pipe Req'd.

+60 RT. STR. NO. 93
Manhole Type "C-4" and 122' of 15" Pipe Req'd.

+60 RT. STR. NO. 94
Inlet Type "J-10" and 3' of 12" Pipe Req'd.

+71 RT. STR. NO. 97
Manhole Type "C-4" and 75' of 15" Pipe Req'd.

+71 RT. STR. NO. 98
Inlet Type "J-10" and 3' of 12" Pipe Req'd.

P.I. 92+86.53 "A"
Δ=90°19'01" LT.
(NO CURVE RUN)

FIRST RICHMOND GROUP, LLC
BICKLE AND LAW'S ADDITION
JONATHAN ROBERTS' ADDITION
KAEUPER REALTY, LLC
RICHARD A. LAKE & LYNNE C. LAKE
MEDICAL INVESTMENTS, LLC
STEPHEN MEDLIN & MELINDA ANE MEDLIN
BAR INCORPORATED

U.S. 40 (S. A ST.)
S. 11TH ST.
ALLEY
LINE "A"
S 89°24'23" E
N 00°16'36" E

CLASS III DR. W=29'
ALLEY APPROACH W=15.4'
STREET APPROACH W=31'
STREET APPROACH W=24'
MOD. CLASS III DR. W=17'
CLASS III DR. W=21.7'

TEMP. R/W FOR DRIVE & SIDEWALK CONSTR.
REMOVE RETAINING WALL AND STEPS
TEMP. R/W FOR SIDEWALK CONSTR. AND WALL AND STEP REMOVAL
TEMP. R/W FOR SIDEWALK CONSTR.
TEMP. R/W FOR DRIVE & SIDEWALK CONSTR.

SIGNALS

+63, 20' Rt. Fire Hydrant
Retire Ex. Fire Hydrant
20 Ft. of 16" Casing See Details
+64, 16' Rt. Install 8" Gate Valve
Assumed Ex. Water Main Location
8" W

ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS SHOWN.

SEE TYPICAL CROSS SECTIONS FOR ALTERNATE PAVEMENT SECTIONS

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

T.B.M. NO. 3 — Cut "X" on the north bonnet bolt of fire hydrant at the NE corner of S. A St. & 11th St. Sta. 93+23.03, 20.30' Rt. Elev. 982.78

PROFILE GRADE LINE "A"
END PROFILE GRADE STA. 92+50.00 "A" ELEV. 980.34

Common excavation for road reconstruction
8" Water Main
STORM SEWER REQ'D. RT. PLOTTED AT DATUM
See Cross Sections for Extra Depth Req'd.

985 980 975 970 965

90+00 91+00 92+00

Not for Construction

Clark Dietz ENGINEERS

N 55919.6034
E 50757.0156
P.I. 92+86.53 "A"

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
U.S. 40 (S. A ST.)

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	39 of X
CONTRACT	PROJECT
.	1592393

8:04:27 PM 8/25/2016 P:\0150090_IN Amer Water - US 27-US 40 Water Main\Water\W_08 PNP_S_A_St.dgn

LEGEND

(A) 165#/SYD. OC/OA–HMA, 4, 70, SURFACE 9.5 mm, ON
275#/SYD. OC/OA–HMA, 4, 70, INTERMEDIATE 19.0 mm, ON
330#/SYD. OC/OA–HMA, 4, 64, BASE 19.0 mm, ON
250#/SYD. OC/OA–HMA, 5, 76, INTERMEDIATE OG 19.0 mm, ON
330#/SYD. OC/OA–HMA, 4, 64, BASE 19.0 mm ON
SUBGRADE TREATMENT TYPE IC
— OR —
OC/OA PCCP, 9.5 IN. ON SUBBASE FOR PCCP
(SUBBASE FOR PCCP CONSISTS OF:
3 IN. OF COARSE AGGREGATE NO. 8 ON
6 IN. OF COARSE AGGREGATE NO. 53)
ON SUBGRADE TREATMENT TYPE IC

(D) HMA FOR APPROACHES:
165#/SYD. HMA SURFACE, TYPE B ON
385#/SYD. HMA INTERMEDIATE, TYPE B ON
SUBGRADE TREATMENT TYPE II

(D1) HMA FOR APPROACHES:
165#/SYD. HMA SURFACE, TYPE B ON
275#/SYD. HMA INTERMEDIATE, TYPE B ON
330#/SYD. HMA BASE, TYPE B ON
SUBGRADE TREATMENT TYPE IC

(C2) PCCP FOR APPROACHES, 9", ON
SUBGRADE TREATMENT TYPE II

(F) SIDEWALK, CONCRETE, 4"

(F1) SIDEWALK ELEVATION TRANSITION

(P) HMA FOR PATCHING, TYPE C

(RX) SIDEWALK CURB RAMP TYPE (X INDICATES TYPE)

(15) COMBINED CONCRETE CURB AND GUTTER
— OR —
INTEGRAL CONCRETE CURB

(16) CONCRETE CURB

(26) SODDING (NURSERY) ON 4" OF TOPSOIL
(SEE TYPICAL SECTIONS FOR PLACEMENT)

LEGEND
- New Water Valve
- New Fire Hydrant
- New Meter Pit
- Dual Meter Pit
- Cap Existing Water Main
- New Water Main
- New Water Main Service
- INCREASER / REDUCER
- Retire Ex. Fire Hydrant

92+49.7 RT. STR. NO. 101 — See Preceding Sheet
92+49.7 RT. STR. NO. 102 — See Preceding Sheet
P.I.+10.4 RT. STR. NO. 103 — See Preceding Sheet
P.I.+34.8 RT. STR. NO. 104 — See Preceding Sheet
92+37 LT. STR. NO. 100 — See Preceding Sheet

RICHARD A. LAKE & LYNNE C. LAKE
LOT 46
1025
TEMP. R/W FOR DRIVE & SIDEWALK CONSTR.
STEPHEN MEDLIN & MELINDA ANE MEDLIN
LOT 53
1015 11TH ST.
S. A ST.
LINE "A" (S. A ST.)
P.I. 92+86.53 "A"
Δ= 8°10'01" LT.
(NO CURVE RUN)
8" W
8" Gate Valve
+64, 16' Rt. Install 8" Gate Valve
16" Casing See Details
TEMP. R/W FOR SIDEWALK CONSTR. AND WALL AND STEP REMOVAL
+25 LT. STR. NO. 106
Inlet Type "M–10" and 27' of 12" Pipe Req'd.
FIRST RICHMOND GROUP, LLC
LOT 19
LOT 18
+30 LT. STR. NO. 109
Inlet Type "M–10" and 2' of 12" Pipe Req'd.
20 Ft. of 16" Casing See Details
MOD. CLASS III DR. W=15.7'
MOD. CLASS III DR. W=27.2'
MOD. CLASS III DR. W=23.8'
MOD. CLASS III DR. W=23.3'
RIGGLE–WALTERMAN MORTUARY, INC.
LOT 17
LOT 16
+35 LT. STR. NO. 111
Inlet Type "J–10" and 25' of 12" Pipe Req'd.
20 Ft. of 16" Casing See Details
+60 LT. STR. NO. 114
Inlet Type "J–10" and 25' of 12" Pipe Req'd.
LOT 15
LOT 14
(Riggles Mortuary)
20 Ft. of 16" Casing See Details
ROSA'S INC.
20
LOT 13
LOT 12
+55, 22' Lt. Fire Hydrant
(Office Building)
U.S. 40 (S. 11TH ST.)
LINE "A" N 00°16'36" E
Constr. Limits
App Exist. R/W
3.5' TYP.
+36, 18' Rt. Fire Hydrant
Retire Ex. Fire Hydrant
Where Proposed Sewer & Ex. Water Main Crossing is in Conflict or Required Separation cannot be Maintianed, Construct Sewer & Modify W. Main in Accordance with the Special Construction Requirements for Water Main Details
+30 RT. STR. NO. 110
Inlet Type "M–10" and 2' of 12" Pipe Req'd.
DIMITRIOS I. KANDRIS & EFFIE KANDRIS
(House)
RIGGLE–WALTERMANN MORTUARY, INC.
(Garage)
+35 RT. STR. NO. 112
Manhole Type "C–4" and 106' of 15" Pipe Req'd.
+35 RT. STR. NO. 113
Inlet Type "J–10" and 3' of 12" Pipe Req'd.
+00 RT. STR. NO. 105
Inlet Type "J–10" and 25' of 12" Pipe Req'd.
+25 RT. STR. NO. 107
Manhole Type "C–4" and 34' of 18" Pipe Req'd.
+25 RT. STR. NO. 108
Inlet Type "M–10" and 3' of 12" Pipe Req'd.
JONATHAN ROBERTS' ADDITION
ROBERT LEE WHITE
LOT 14
LOT 13
+60 RT. STR. NO. 115
Manhole Type "C–4" and 121' of 15" Pipe Req'd.
+60 RT. STR. NO. 116
Inlet Type "J–10" and 3' of 12" Pipe Req'd.
SEC. 4, T13N, R1W WAYNE TWP. WAYNE CO.
BICKLE AND LAW'S ADDITION

(1) WONG/RUNNELS PROPERTIES, LLC
(2) DAVID J. BRUNTON & BEATRICE M. BRUNTON
(3) DORIS E. WAGNER & MARGARET M. SHESLER
(4) THE RICHARD E. REYNOLDS & JOAN R. REYNOLDS REVOCABLE TRUST
(5) KAREN ELAINE DECOURCY & JAMES TERRIL BRUNTON
(6) RUBY B. GREENE

ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS SHOWN.

SEE TYPICAL CROSS SECTIONS FOR ALTERNATE PAVEMENT SECTIONS

T.B.M. NO. 3 — Cut "X" on the north bonnet bolt of fire hydrant at the NE corner of S. A St. & 11th St. Sta. 93+25.05, 20.30' Rt. Elev. 982.78

NOTES:

1. THE CONTRACTOR SHALL INSTALL PIPING AT A MINIMUM OF 54 INCHES BETWEEN THE PROPOSED GRADE AND TOP OF THE PIPE. THE WATER MAIN SHALL BE LOWERED AS NEEDED TO CROSS UNDER NEW OR EXISTING UTILITIES AND SEWERS WITHOUT ADDITIONAL FITTINGS AND AS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL STATION & OFFSET CALLOUTS FOR PROPOSED WATER MAIN SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. SERVICE LINES ARE TO BE 3/4 IN. EXCEPT SERVICE LINES 60 FEET OR LONGER SHALL BE 1 IN., OR SERVICE LINES SPECIFIED OTHERWISE.
4. POTHOLE EXISTING WATERMAIN TO VERIFY LOCATIONS AND REPORT DISCREPANCIES TO ENGINEER.
5. DIRECTIONAL DRILL NEW SERVICE LINES TO PARKWAY ON OPPOSITE SIDE OF STREET CONSTRUCTED IN PREVIOUS OR FUTURE PHASES. TEMPORARILY TERMINATE SERVICES INTO EXISTING METER PITS FOR CONNECTION TO NEW METER PITS WHEN NEW WATER MAIN IS PLACED INTO SERVICE.
6. SAW CUT AND PATCH PAVEMENT PER DETAIL WHEN CONSTRUCTING WATER MAIN IN PAVEMENT AREAS TO BE IMPROVED IN FUTURE PHASES
7. PRIOR TO CONNECTION TO EXISTING WATER MAIN, TAP WATER MAIN TO VERIFY THAT LINE IS ISOLATED AND NOT PRESSURIZED.
8. WHERE PROPOSED WATER MAIN CROSSES OVER EXISTING SEWER AND MINIMUM COVER CANNOT BE PROVIDED, PROVIDE INSULATED CASING PIPE.
9. INSTALL TEMPORARY MJ PLUG ON ALL FITTINGS AND VALVES TO BE CONNECTED TO NEW WATER MAIN IN LATER PHASES.
10. ALL FIRE HYDRANTS INCLUDE AUXILLARY VALVE AS SHOWN IN DETAILS.

BEGIN PROFILE GRADE STA. 93+25.73 "A" ELEV. 980.33
PROFILE GRADE LINE "A"
Existing Profile Line "A"
Common excavation for road reconstruction
RIM 980.10
RIM 980.19
RIM 980.43
RIM 980.81
+0.30%
18" PIPE @ +0.38%
15" PIPE @ +0.30%
15" PIPE @ +0.20%
8" Water Main
INV. 975.24
INV. 975.07
INV. 975.67
STORM SEWER REQ'D. RT. PLOTTED AT DATUM
INV. 975.94
INV. 976.19
See Cross Sections for Extra Depth Req'd.
+25 RT. STR. NO. 107
+35 RT. STR. NO. 112
+60 RT. STR. NO. 115
P.I.+10.4 RT. STR. NO. 103
INV. 969.13
Exist. 12" San. Inv. 967.49±
93+00
94+00
95+00
96+00
97+00

Not for Construction

Clark Dietz ENGINEERS

N 55919.6034
E 50757.0156
P.I. 92+86.53 "A"
CUT "X" ON SE BOLT TRAF. SIGNAL BASE Az. 40°37.04'
CUT "X" SW BOLT AREA LIGHT BASE Az. 70°34.20'
(MAG NAIL SET)
NE. COR. CONC. TRAF. CNTRL BASE Az. 150°39.70'

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE U.S. 40 (S. A ST.)

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
-	40 of X
CONTRACT	PROJECT
-	1592393

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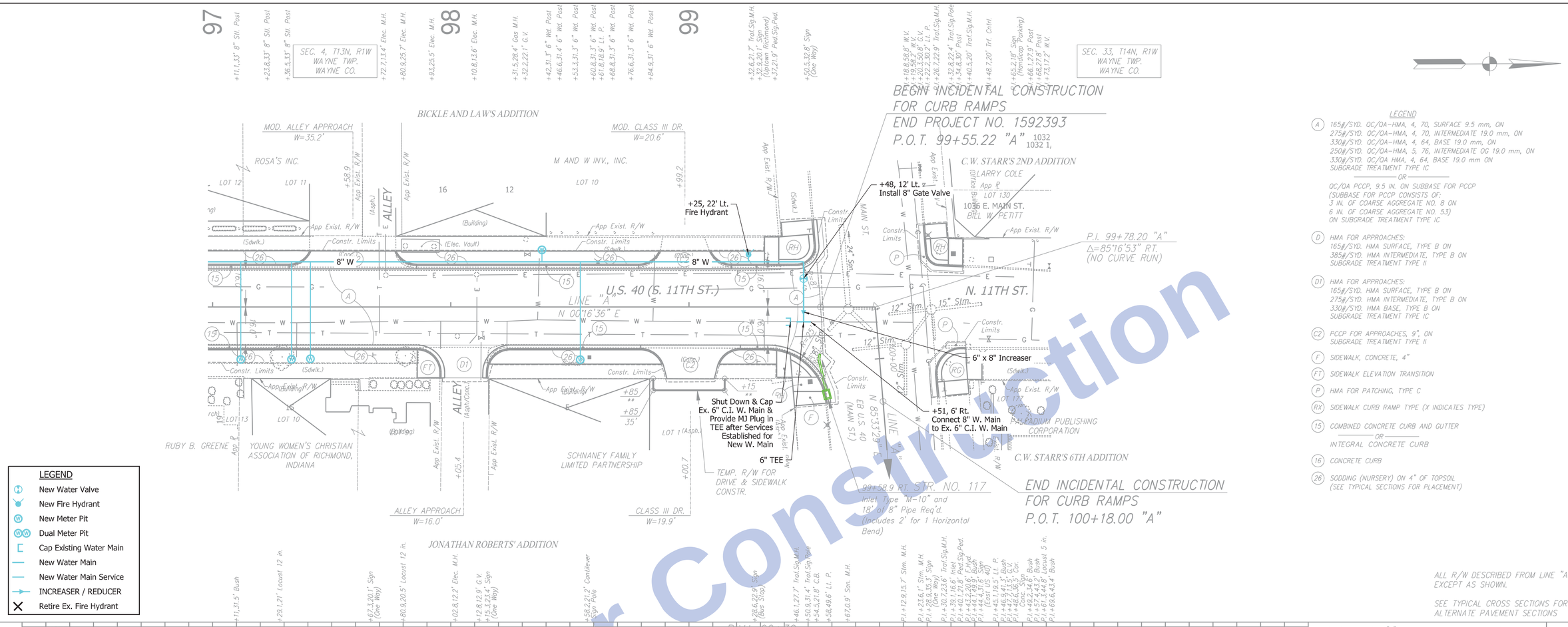
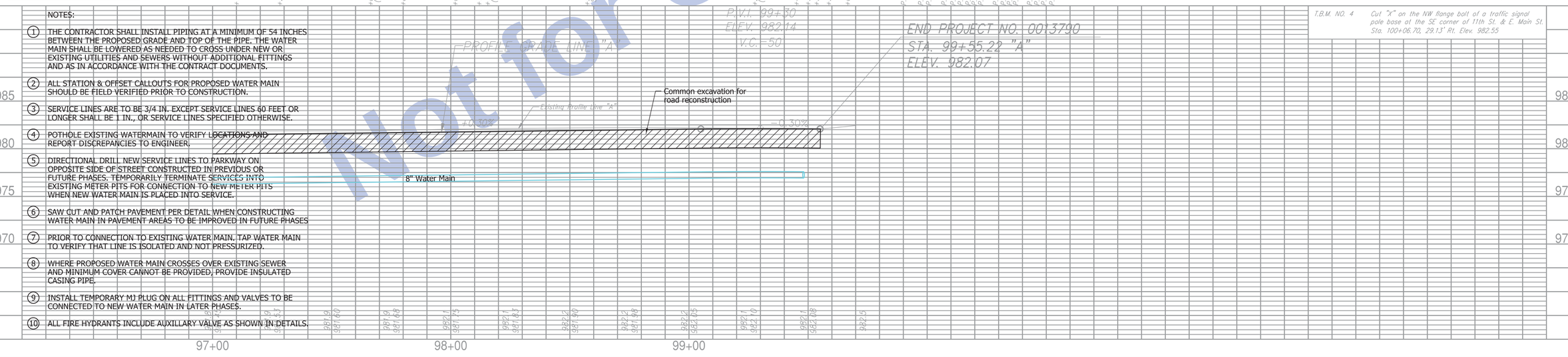
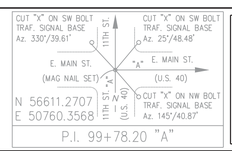




Not for Construction

T.B.M. NO. 4 — Cut "X" on the NW flange bolt of a traffic signal pole base at the SE corner of 11th St. & E. Main St. Sta. 100+06.70, 29.13' Rt. Elev. 982.55



Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
U.S. 40 (S. A ST.)

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	.
VERTICAL SCALE	DESIGNATION
1" = 5'	1592393
SURVEY BOOK	SHEETS
.	41 of X
CONTRACT	PROJECT
.	1592393

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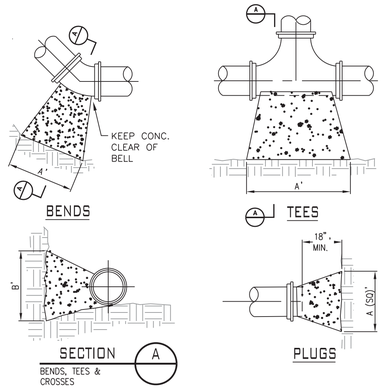


NOTES:

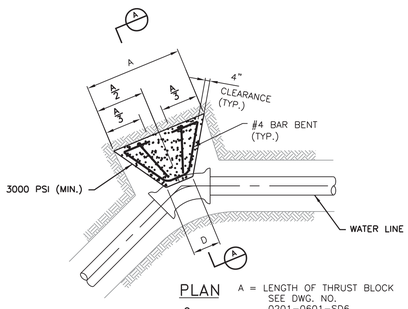
1. COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 30" MINIMUM, 72" MAXIMUM ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
2. THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
3. NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES,.
4. THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
5. BASED ON 200 PSI (150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER) AND 2000 PSF SOIL BEARING.
6. INSTALL POLYETHYLENE ENCASEMENT ON ALL D.I. PIPE AND FITTINGS PRIOR TO POURING CONCRETE.
7. PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
8. ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
9. ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER.
10. ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
11. THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
12. CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN 3000 PSI CONCRETE.
13. FOR UNSTABLE SOIL CONDITIONS, CHECK WITH ENGINEER FOR THRUST BLOCK DIMENSIONS.
14. FOR MAIN SIZES GREATER THAN 16", SEE ENGINEER FOR THRUST BLOCK DIMENSIONS.

REQUIRED BEARING AREA ON UNDISTURBED SOIL AND TYPICAL DIMENSIONS

PIPE SIZE	90 DEGREE BENDS			45 DEGREE BENDS			11.25 DEGREE BENDS			22.5 DEGREE BENDS			TEES/PLUGS		
	AREA (sq ft)	"A"	"B"	AREA (sq ft)	"A"	"B"	AREA (sq ft)	"A"	"B"	AREA (sq ft)	"A"	"B"	AREA (sq ft)	"A"	"B"
6	5.3	43"	18"	2.9	23"	18"	0.7	6"	18"	1.5	12"	18"	3.7	30"	18"
8	9.2	55"	24"	5.0	30"	24"	1.3	8"	24"	2.5	15"	24"	6.4	39"	24"
10	13.8	66"	30"	7.5	36"	30"	1.9	9"	30"	3.8	18"	30"	9.7	46"	30"
12	19.4	78"	36"	10.6	42"	36"	2.7	11"	36"	5.3	21"	36"	13.8	55"	36"
14	26.0	89"	42"	14.0	48"	42"	3.6	12"	42"	7.2	25"	42"	18.5	63"	42"
16	33.7	101"	48"	18.3	55"	48"	4.7	14"	48"	9.4	28"	48"	23.9	72"	48"

Area in square feet "A" and "B" in inches
Bearing table area is based on 200 psi maximum with soil bearing capacity of 2000 lbs/square foot.
For higher water pressures or lower soil pressures, consult Engineer for adjustments.
Bearing table area does not include a safety factor.
A safety factor and additional bearing area may be required as directed by the Engineer.

THRUST BLOCK DETAIL



GENERAL NOTES:

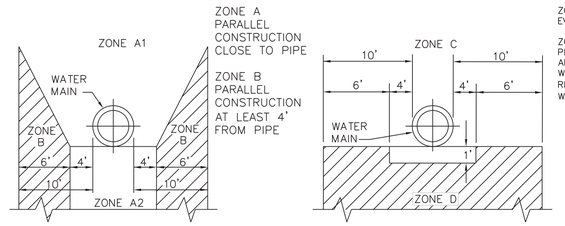
1. COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 30" MINIMUM IN NON-FROST AREAS OR ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
2. THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
3. NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
4. THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
5. DIMENSION "C" BASED ON MINIMUM BEARING AREA, 18" MINIMUM.
6. POLYETHYLENE ENCASEMENT ON ALL D.I. PIPE AND FITTINGS.
6. POLYETHYLENE ENCASEMENT ON ALL D.I. PIPE AND FITTINGS.
7. PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
8. ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH APPROVED MATERIAL AFTER CONCRETE HAS SET.
9. ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
10. ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
11. THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
12. PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE 3000 PSI CONCRETE MINIMUM.

* BEARING AREAS ARE BASED ON SOIL HAVING AN ALLOWABLE SAFE LATERAL BEARING OF 2000 POUNDS PER SQUARE FOOT AND 200 PSI TEST PRESSURE. AREA MUST BE REVISED FOR SOILS WITH A LOWER BEARING CAPACITY OR HIGHER TEST PRESSURE.

THRUST BLOCK AT HORIZONTAL BENDS (EXCEEDING 3 FT. IN THICKNESS) DETAILS

PARALLEL CONSTRUCTION

PERPENDICULAR CONSTRUCTION



ZONE C PERPENDICULAR ABOVE OR EVEN HORIZONTAL

ZONE D PERPENDICULAR BELOW HORIZONTAL IF AN EXISTING SEWER IS LOCATED WITHIN THESE LIMITS. THE CONDITIONS REQUIREMENTS MAY APPLY (CONFIRM WITH REGULATOR)

IF AN EXISTING SEWER IS LOCATED WITHIN ZONES A1, A2, B, C, OR D OF A PROPOSED WATER MAIN, THE FOLLOWING SPECIAL REQUIREMENTS APPLY:

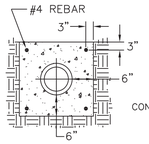
ZONE

A. NO WATER MAINS SHALL BE CONSTRUCTED WITHOUT SPECIAL PERMISSION FROM THE APPROPRIATE HEALTH OR ENVIRONMENTAL REGULATOR.

B. IF THE SEWER DOES NOT MEET ZONE B REQUIREMENTS, THE WATER MAIN SHALL BE OF PRESSURE CLASS 200 PIPE FOR PVC AND CLASS 350 FO D.I. PIPE. SEWER SHALL BE CONSTRUCTED EQUAL TO WATER PIPE AND TESTED FOR WATER TIGHTNESS.

C. NO WATER MAINS SHALL BE CONSTRUCTED WITHOUT SPECIAL PERMISSION FROM THE HEALTH REGULATOR. IF PERMISSION IS GRANTED, THE SEWER PIPE SHALL BE ENCASED WITH REINFORCED CONCRETE AND THE WATER MAIN SHALL BE OF CLASS 200 PIPE OR EQUIVALENT.

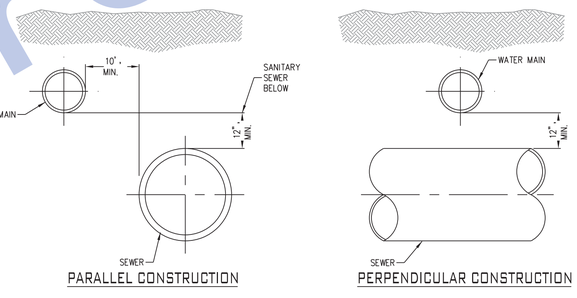
D. THE SEWER SHALL BE ENCASED WITH REINFORCED CONCRETE.



CONCRETE SHALL BE 3000 PSI CONCRETE

SPECIAL CONSTRUCTION REQUIREMENTS

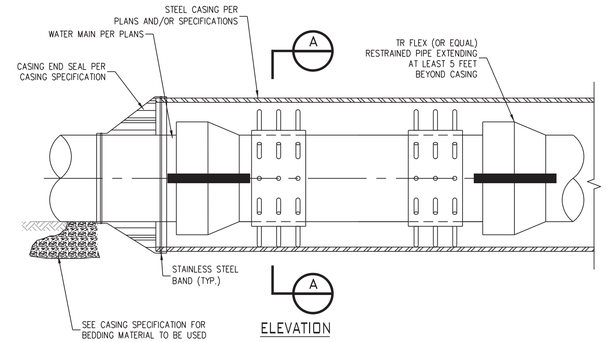
WHERE REQUIRED WATER MAIN SEPARATION FROM SEWER CANNOT BE MAINTAINED



BASIC SEPARATION REQUIREMENTS:

1. WATER MAINS AND SEWERS SHOULD BE SEPARATED AS FAR AS IS REASONABLE IN BOTH THE HORIZONTAL AND VERTICAL DIRECTIONS WITH SEWERS LOWER THAN WATER MAINS.
2. PARALLEL CONSTRUCTION: THE HORIZONTAL DISTANCE BETWEEN PRESSURE WATER MAINS AND SEWERS SHALL BE AT LEAST 10 FEET
3. PERPENDICULAR CONSTRUCTION (CROSSING): PRESSURE WATER MAINS SHALL BE AT LEAST 18" ABOVE SANITARY SEWERS WHERE THESE LINES MUST CROSS.

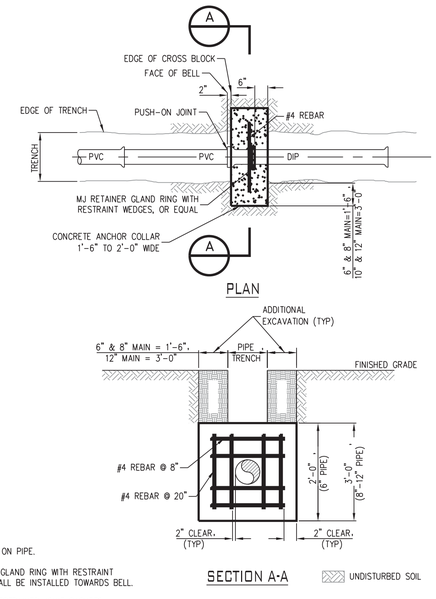
REQUIRED SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS



NOTES:

1. RESTRAINT OR EQUALS DEFINED AS REQUIRING NO SPECIAL TOOLS OR SHIMS TO REMOVE PIPE FROM CASING IN THE FUTURE.
2. THIS STANDARD APPLICABLE FOR WATER MAINS 4" DIAMETER, AND LARGER.

CASING INSTALLATION DETAIL



NOTES:

1. CENTER BLOCK ON PIPE.
2. ONE RETAINER GLAND RING WITH RESTRAINT WEDGES SHALL BE INSTALLED TOWARDS BELL.
3. DO NOT USE RESTRAINED JOINT GASKETS.

CROSS BLOCK DETAIL

Not for Construction

Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

WATER MAIN DETAILS

HORIZONTAL SCALE	BRIDGE FILE
NONE	.
VERTICAL SCALE	DESIGNATION
NONE	1592393

SURVEY BOOK	SHEETS
.	42 of 47
CONTRACT	PROJECT
.	1592393

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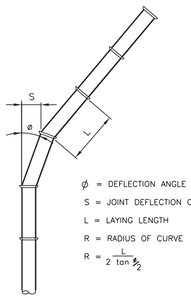
MAXIMUM JOINT DEFLECTION
FULL-LENGTH PIPE-PUSH-ON TYPE JOINT PIPE

MAXIMUM JOINT DEFLECTION DUCTILE IRON PUSH ON PIPE					
NOMINAL PIPE SIZE	DEFLECTION ANGLE	MAX OFFSET - S		APPROXIMATE RADIUS OF CURVATURE - R PRODUCED BY SUCCESSION OF ANGLED JOINTS	
INCHES	DEGREES	INCHES		FEET	
		L=18 FT	L=20 FT	L=18 FT	L=20 FT
3	4	15	17	256	285
4	4	15	17	256	285
6	4	15	17	256	285
8	4	15	17	256	285
10	4	15	17	256	285
12	4	15	17	256	285
14	4	9	10	256	285
16	2.5	9	10	429	476
18	2.5	9	10	429	476
20	2.5	9	10	429	476
24	2.5	9	10	429	476

MAXIMUM JOINT DEFLECTION DUCTILE IRON PUSH ON PIPE					
NOMINAL PIPE SIZE	DEFLECTION ANGLE	MAX OFFSET - S		APPROXIMATE RADIUS OF CURVATURE - R PRODUCED BY SUCCESSION OF ANGLED JOINTS	
INCHES	DEGREES	INCHES		FEET	
		L=18 FT	L=20 FT	L=18 FT	L=20 FT
3	4	15	17	256	285
4	4	15	17	256	285
6	4	15	17	256	285
8	4	15	17	256	285
10	4	15	17	256	285
12	4	15	17	256	285
14	4	9	10	256	285
16	2.5	9	10	429	476
18	2.5	9	10	429	476
20	2.5	9	10	429	476
24	2.5	9	10	429	476

NOTE:

1. PIPE JOINT DEFLECTION ALLOWED ON DUCTILE IRON PIPE ONLY. PIPE JOINT DEFLECTION NOT ALLOWED ON PVC PIPE.



ϕ = DEFLECTION ANGLE

S = JOINT DEFLECTION OFFSET

L = LAYING LENGTH

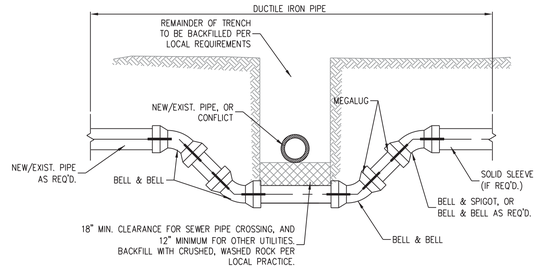
R = RADIUS OF CURVE

$R = \frac{L}{2 \tan \frac{\phi}{2}}$

NOTE:

*L=STANDARD LENGTH OF PIPE SECTION.

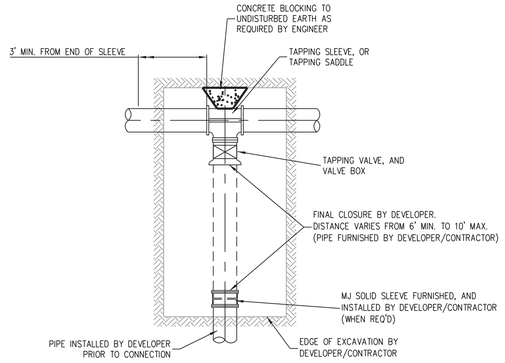
PIPE CURVE GEOMETRY DETAIL



NOTES:

1. ALL PIPE TO BE JOINT RESTRAINED.
2. PIPE IS TO BE DUCTILE IRON, MINIMUM PRESSURE CLASS 350.
3. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE WRAPPED FOR THE ENTIRE LENGTH.
4. BEGIN/END RESTRAINED JOINT STATIONING TO BE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. ALL BENDS & FITTINGS SHALL HAVE STATIONING AND ELEVATION SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. THE BOTTOM ELEVATION OF THE CONFLICT AND THE TOP ELEVATION OF THE DUCTILE IRON PIPE AT THE CENTERLINE OF THE CONFLICT SHALL BE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.

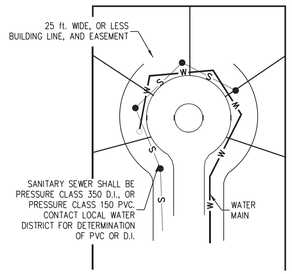
VERTICAL REALIGNMENT OF WATER MAIN DETAIL



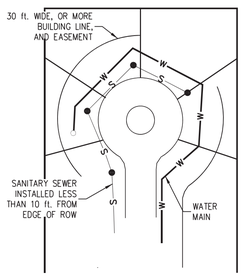
NOTES:

1. BOTTOM OF EXCAVATION TO BE 12" BELOW BOTTOM OF PIPE, AND REASONABLY LEVEL.
2. TAP CONNECTIONS TO AC (TRANSITE PIPE) 4" AND LARGER REQUIRE AN EXCAVATION 5 FT. IN WIDTH (MAIN SIZE IS VARIABLE).
3. ALL EXCAVATIONS SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS PER PROTECTION OF WORKERS.
4. IF PIPE BELL IS EXPOSED IN TAP HOLE OR OTHER OBSTACLES ENCOUNTERED, CONTACT LOCAL WATER COMPANY DISTRICT PERSONNEL FOR FIELD REVIEW PRIOR TO COMPLETING EXCAVATION.
5. TAP HOLE SHALL BE FREE OF WATER AND MUD TO ALLOW SAFE HANDLING OF HEAVY SLEEVES AND TAPPING MACHINE.
6. CONCRETE BLOCKING BEHIND TAP TO BE PER THRUST BLOCK DETAIL.

PATENT TAP CONNECTION DETAIL



LAYOUT "A" BUILDING SETBACK 25ft. OR LESS CSR 20-8
(SPECIAL CONDITIONS)



LAYOUT "B" BUILDING SETBACK 30ft. OR MORE CSR 20-8
(TEN FOOT SEPARATION)

NOTE:

CUL-DE-SACS THAT ARE DESIGNED WITH THE SANITARY SEWER INSTALLED OR PROPOSED AROUND THE PERIMETER OF A CUL-DE-SAC IN AN EASEMENT MUST MEET THE DNR CODE OF STATE REGULATIONS (CSR) AS OUTLINED BELOW. DUE TO THE WIDTH OF SEWER TRENCHES AND THE RESULTING DISTURBED SOIL OCCUPYING THE ENTIRE EASEMENT.

REGULATIONS NORMALLY REQUIRES 10 FEET SEPARATION BETWEEN THE WATER MAIN AND THE BUILDING LINE WHERE A WATER MAIN IS INSTALLED OR PROPOSED AROUND THE PERIMETER OF A CUL-DE-SAC.

CUL-DE-SACS WITH 30 FOOT WIDE EASEMENT AND BUILDING LINE SHOULD NOT BE AN ISSUE AS LONG AS THE SEWER IS INSTALLED LESS THAN 10 FEET FROM THE EDGE OF RIGHT OF WAY.

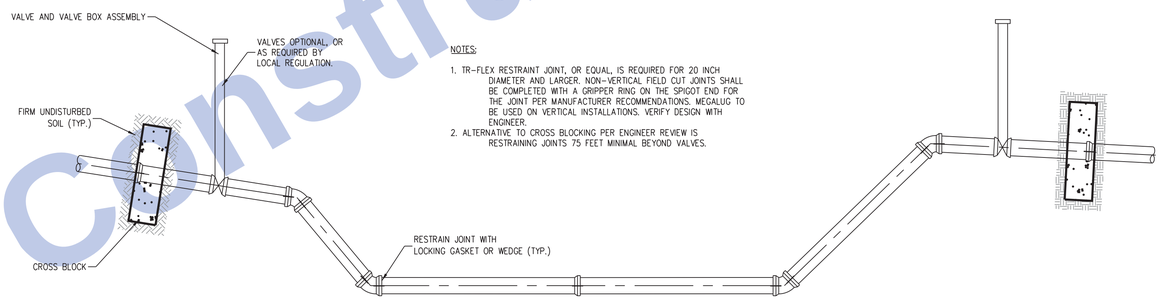
HORIZONTAL SEPARATION – SEWER MAINS SHALL BE AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCES SHALL BE MEASURED EDGE-TO-EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN TEN FOOT (10') – SEPARATION, DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, THIS DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO THE WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH OR AN UNDISTURBED EARTH SHELF LOCATED ON ONE (1) SIDE OF THE SEWER AT AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST EIGHTEEN INCHES (18") ABOVE THE TOP OF THE SEWER. CONSTRUCTOR SHALL NOT PROCEED WITH DEVIATION WITHOUT AW APPROVAL.

CROSSING – SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN INCHES (18") BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THE SEWER JOINT WILL BE EQUIVALENT AND AS FAS AS POSSIBLE FROM THE WATER MAIN JOINTS. WHEN A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

SPECIAL CONDITIONS. WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED PREVIOUSLY. THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND SHALL BE PRESSURE TESTED TO ASSURE WATER-TIGHTNESS PRIOR TO BACKFILLING.

AN AWC DESIGNATED INSPECTOR SHALL VERIFY AND DOCUMENT THE TYPE AND PRESSURE OF SEWER MATERIAL INSTALLED, SHALL VERIFY PRESSURE TESTING FOR WATER-TIGHTNESS, AND SHALL PROVIDE AS-BUILT DRAWINGS OF THE SEWER MAIN SHOWING THE LOCATION OF THE SEWER JOINTS AND MANHOLES. SEWER DOCUMENTATION AND AS-BUILT DRAWINGS FOR LAYOUT "A" SHALL BE SENT TO AWC NEW BUSINESS DEPARTMENT PRIOR TO WATER MAIN CONSTRUCTION.

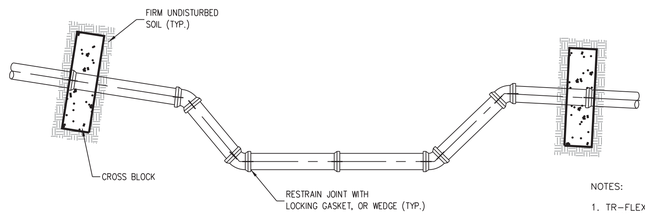
PROTECTION OF WATER SUPPLIES DETAIL



NOTES:

1. TR-FLEX RESTRAINT JOINT, OR EQUAL, IS REQUIRED FOR 20 INCH DIAMETER AND LARGER. NON-VERTICAL FIELD CUT JOINTS SHALL BE COMPLETED WITH A GRIPPER RING ON THE SPIGOT END FOR THE JOINT PER MANUFACTURER RECOMMENDATIONS. MEGALUG TO BE USED ON VERTICAL INSTALLATIONS. VERIFY DESIGN WITH ENGINEER.
2. ALTERNATIVE TO CROSS BLOCKING PER ENGINEER REVIEW IS RESTRAINING JOINTS 75 FEET MINIMAL BEYOND VALVES.

UTILITY CROSS WAYS - PIPE CROSSING DETAIL



NOTES:

1. TR-FLEX RESTRAINED JOINT IS REQUIRED FOR 20 INCH DIAMETER, AND LARGER. VERTICAL FIELD CUT JOINTS SHALL BE COMPLETED WITH A GRIPPER RING ON THE SPIGOT END FOR THE JOINT, PER MANUFACTURER. MEGA-LUG TO BE USED ON VERTICAL INSTALLATIONS. VERIFY DESIGN WITH ENGINEER.
2. ALTERNATIVE TO CROSS BLOCKING, PER ENGINEER REVIEW, IS RESTRAINING JOINTS 75 FEET MINIMUM BEYOND VALVES.

VERTICAL OFFSET DETAIL

Not for Construction

Clark Dietz
ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

WATER MAIN DETAILS

HORIZONTAL SCALE	BRIDGE FILE
NONE	
VERTICAL SCALE	DESIGNATION
NONE	1592393
SURVEY BOOK	SHEETS
	43 of 47
CONTRACT	PROJECT
	1592393

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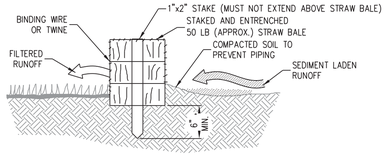
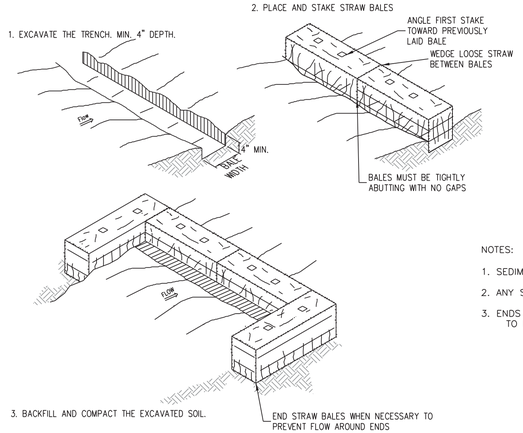


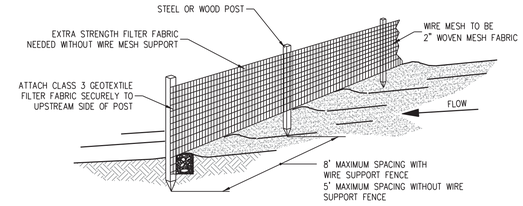
PROPERLY INSTALLED
STRAW BALE
(CROSS-SECTION)



NOTES:

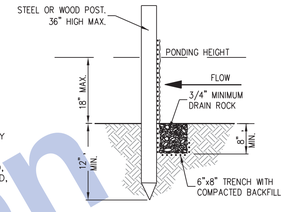
1. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 4" ABOVE GROUND HEIGHT.
2. ANY SECTION, WHICH HAS BEEN UNDERMINED OR TOPPED, MUST BE IMMEDIATELY REPLACED.
3. ENDS OF STRAW BALES MUST BE INSTALLED TO PROHIBIT RUNOFF FROM BEING ALLOWED TO FLOW AROUND ENDS.

TEMPORARY STRAW BALE SEDIMENT BARRIER DETAILS

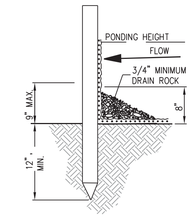


NOTES:

1. FILTER FABRIC FENCE MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST EXTEND AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
2. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 9" ABOVE GROUND HEIGHT OF THE FENCE.
3. ANY FENCE SECTION, WHICH HAS BEEN UNDERMINED OR TOPPED, MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.
4. WHERE ENDS OF FILTER FABRIC COME TOGETHER, THEY MUST BE OVERLAPPED, FOLDED, AND STAPLED TO PREVENT SEDIMENT BYPASS. THE TOE ANCHOR MUST BE BACKFILLED, AND COMPACTED TO A DENSITY EQUAL TO THE SURROUNDING SOILS.

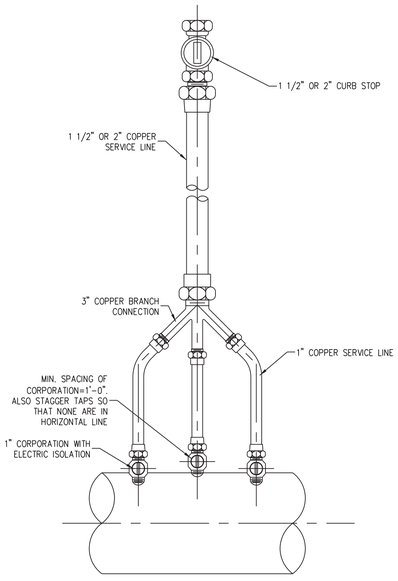


TRENCH DETAIL

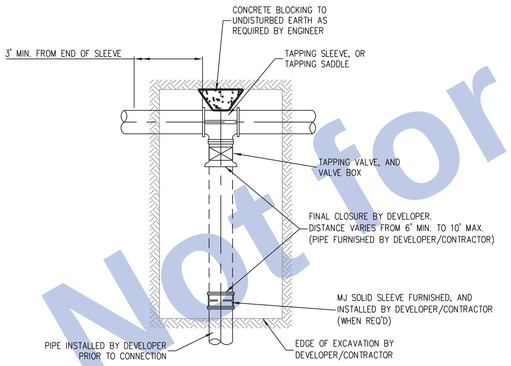


INSTALLATION WITHOUT TRENCHING

SILT FENCE DETAIL



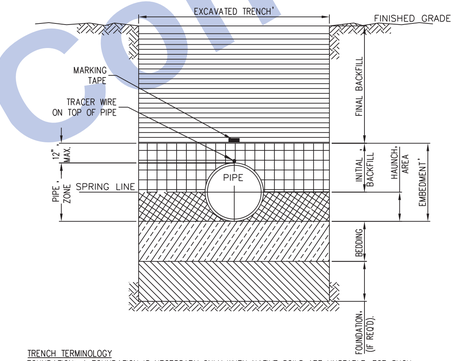
1 1/2" & 2" SERVICE LINE DETAIL



NOTES:

1. BOTTOM OF EXCAVATION TO BE 12" BELOW BOTTOM OF PIPE, AND REASONABLY LEVEL.
2. TAP CONNECTIONS TO AC (TRANSITE PIPE) 4" AND LARGER REQUIRE AN EXCAVATION 5 FT. IN WIDTH (MAIN SIZE IS VARIABLE).
3. ALL EXCAVATIONS SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS PER PROTECTION OF WORKERS.
4. IF PIPE BELL IS EXPOSED IN TAP HOLE OR OTHER OBSTACLES ENCOUNTERED, CONTACT LOCAL WATER COMPANY DISTRICT PERSONNEL FOR FIELD REVIEW PRIOR TO COMPLETING EXCAVATION.
5. TAP HOLE SHALL BE FREE OF WATER AND MUD TO ALLOW SAFE HANDLING OF HEAVY SLEEVES AND TAPPING MACHINE.
6. CONCRETE BLOCKING BEHIND TAP TO BE PER THRUST BLOCK DETAIL.

PATENT TAP CONNECTION DETAIL



TRENCH TERMINOLOGY

FOUNDATION: A FOUNDATION IS NECESSARY ONLY WHEN NATIVE SOILS ARE UNSTABLE. FOR SUCH CONDITIONS, THE TRENCH IS OVER-EXCAVATED AND A LAYER OF SUPPORTIVE MATERIALS IS PLACED AND COMPACTED TO PROVIDE A FIRM FOUNDATION FOR THE SUBSEQUENT PIPE EMBEDMENT MATERIALS.

EMBEDMENT: THIS ZONE IS THE MOST IMPORTANT IN TERMS OF PIPE PERFORMANCE. IT IS DIVIDED INTO THE FOLLOWING SUB ZONES:

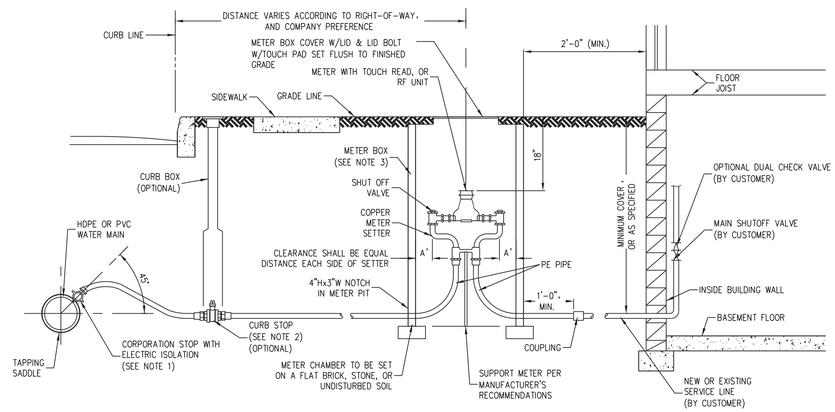
- BEDDING TYPICALLY SIX INCHES OF SUPPORTIVE, COMPACTED MATERIAL. THIS ZONE PROVIDES EVEN SUPPORT FOR THE PIPE AND BRINGS IT TO GRADE.
- HAUNCHING: EXTENDS FROM THE BOTTOM OF THE PIPE TO THE CENTERLINE OF THE PIPE. IT PROVIDES THE MOST RESISTANCE TO PIPE DEFLECTION. SPECIFYING PROPER MATERIALS AND COMPACTION ARE MOST IMPORTANT FOR THIS ZONE.
- INITIAL BACKFILL: EXTENDS FROM THE SPRINGLINE TO A POINT ABOVE THE TOP OF THE PIPE. THIS ZONE PROVIDES SOME PIPE SUPPORT AND HELPS PREVENT DAMAGE TO THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. THE COVER EXTENDS FROM THE TOP OF THE PIPE TO THE TOP OF THE INITIAL BACKFILL. THE DEPTH OF COVER SHOULD BE AS MUCH AS NECESSARY TO PROTECT THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. TWELVE INCHES IS A COMMON DEPTH OF COVER.

FINAL BACKFILL: THIS ZONE EXTENDS FROM THE TOP OF THE INITIAL BACKFILL TO THE TOP OF THE TRENCH. THIS ZONE HAS LITTLE INFLUENCE ON PIPE PERFORMANCE, BUT CAN BE IMPORTANT TO THE INTEGRITY OF ROADS AND STRUCTURES.

PIPE TRENCH TERMINOLOGY DETAIL

NOTES:

1. CORPORATION STOP WITH STRAIGHT COUPLING NUT. SERVICE SADDLES WILL BE USED FOR ALL TAPS IN A/C, PVC OR CONCRETE MAINS.
2. MATERIAL UTILIZED SHOULD BE POLYETHYLENE, ENCASE AS REQUIRED.
3. 18" I.D. CHAMBER FOR USE WITH 5/8" METER. 20" I.D. CHAMBER FOR USE WITH 1" METER. 36" I.D. CHAMBER FOR USE WITH 2" METER. SQUARE METER PITS MAY BE USED IF LOCAL PREFERENCE EXISTS.
4. METER BOX LOCATION TO BE DETERMINED BY LOCAL AUTHORITY AND AWW.
5. SERVICE LINE AND METER BOX OWNERSHIP VARIES BY LOCAL TARIFF.
6. POLYWRAP SERVICE FROM MAIN TO METER PIT IF SOIL IS CORROSIVE.
7. IN HEAVY FROST AREAS, A PLASTIC INNER LID AND BLANKET CAN BE USED.
8. CONNECTIONS BETWEEN PIPE LENGTHS SHALL BE COMPRESSION OR FLARE AND MAY DEPEND ON LOCAL PLUMBING REQUIREMENT.



SINGLE WATER SERVICE CONNECTION FROM DI MAIN

Not for Construction

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Clark Dietz
ENGINEERS

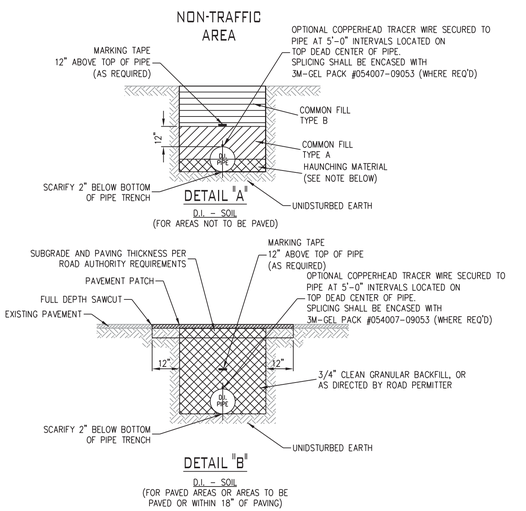
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA
DEPARTMENT OF TRANSPORTATION

WATER MAIN
DETAILS

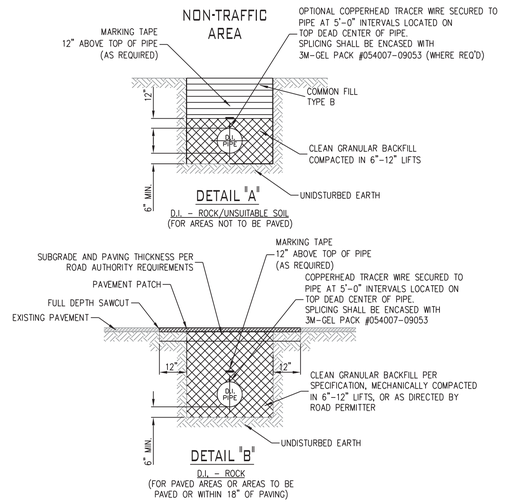
HORIZONTAL SCALE	BRIDGE FILE
NONE	
VERTICAL SCALE	DESIGNATION
NONE	1592393
SURVEY BOOK	SHEETS
.	44 of 47
CONTRACT	PROJECT
.	1592393



NOTES:

1. SEE SPECIFICATION SECTION 02210 FOR DESCRIPTIONS OF BACKFILL AND BEDDING MATERIALS.
2. CAUTION MUST BE EXERCISED TO ENSURE PROPER PLACEMENT OF EMBEDMENT MATERIAL UNDER THE HAUNCHES OF THE PIPE.
3. POLYETHYLENE ENCASING REQUIRED ON ALL D.I. PIPE, FITTINGS, VALVES, AND APPURTENANCES IN CORROSIVE SOILS.

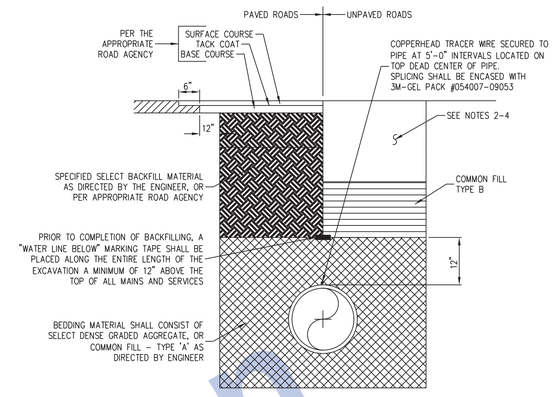
TRENCH DETAIL-DI PIPE IN SOIL DETAIL



NOTES:

1. SEE SPECIFICATION SECTION 02210 FOR DESCRIPTIONS OF BACKFILL AND BEDDING MATERIALS.
2. CAUTION MUST BE EXERCISED TO ENSURE PROPER PLACEMENT OF EMBEDMENT MATERIAL UNDER THE HAUNCHES OF THE PIPE.
3. POLYETHYLENE ENCASING REQUIRED ON ALL D.I. PIPE, FITTINGS, VALVES, AND APPURTENANCES IN CORROSIVE SOILS.
4. CLEAN GRANULAR BACKFILL SHALL BE AS SPECIFIED IN CONTRACT DOCUMENTS.

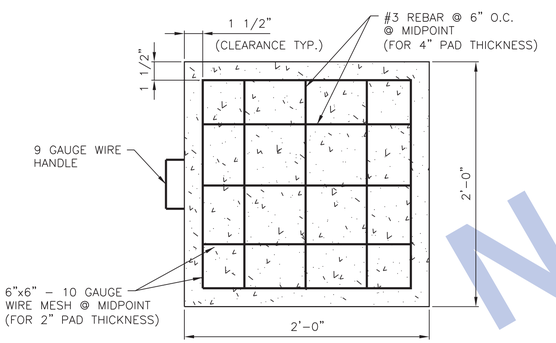
TRENCH DETAIL-DI PIPE IN ROCK DETAIL



NOTES:

1. ALL BEDDING AND BACKFILL MATERIALS SHALL BE PROVIDED, PLACED, AND COMPACTED IN SPECIFIED LIFTS IN ACCORDANCE WITH THE ENGINEER'S DIRECTION, OR THE REQUIREMENTS OF THE REGULATING AGENCY HAVING JURISDICTION, IF MORE STRINGENT.
2. IN UPLAND AREAS: SUITABLE SOIL OR TOPSOIL, SEED, MULCH, AND FERTILIZE PER SPECIFICATIONS.
3. IN WETLAND AREAS: TOP 18" TO BE BACKFILLED WITH NATIVE EXCAVATED SOIL, AND REPLANTED WITH NATIVE VEGETATION.
4. IN STREAM CHANNELS, AND ADJACENT STREAM BANKS: TOP 12" RIPRAP, VOIDS FILL WITH NATIVE SOIL

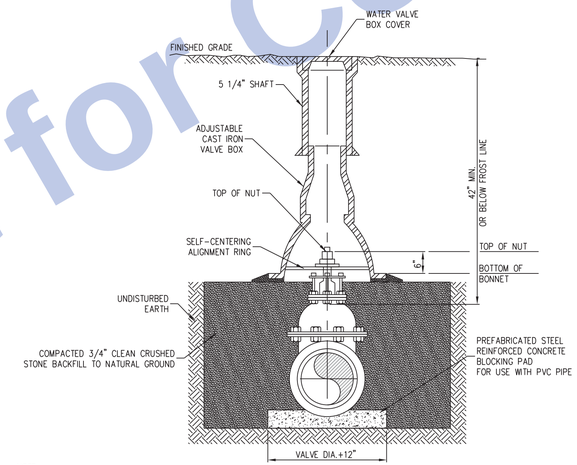
TRENCH RESTORATION DETAIL



NOTES:

1. PAD THICKNESS = 2" OR 4".
2. PROVIDE CERTIFICATION OF REINFORCING WIRE AS REQUIRED.

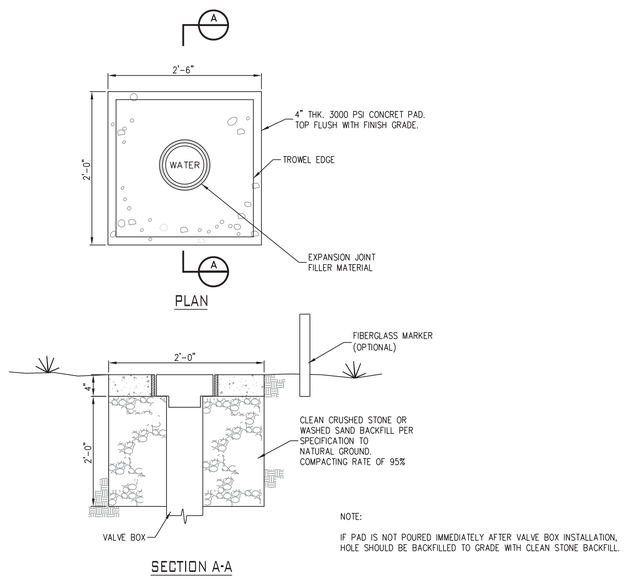
PREFABRICATED STEEL REINFORCED CONCRETE BLOCKING PAD DETAIL



NOTE:

1. 6"x6" WOOD BLOCK MAY BE USED AS VALVE PAD WHERE APPROVED BY ENGINEER.

VALVE BOX INSTALLATION FOR FROST AREAS



NOTE:

IF PAD IS NOT POURED IMMEDIATELY AFTER VALVE BOX INSTALLATION, HOLE SHOULD BE BACKFILLED TO GRADE WITH CLEAN STONE BACKFILL.

SECTION A-A

VALVE BOX IN UNPAVED AREAS DETAIL

Not for Construction

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Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

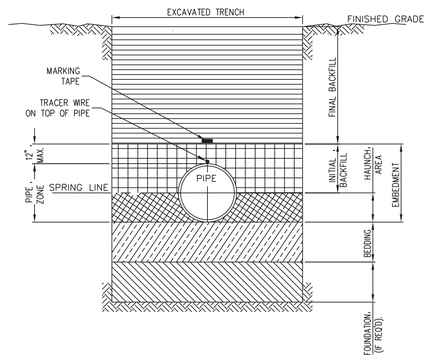
DESIGNED: GSG DRAWN: MP

CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

WATER MAIN DETAILS

HORIZONTAL SCALE	BRIDGE FILE
NONE	.
VERTICAL SCALE	DESIGNATION
NONE	1592393
SURVEY BOOK	SHEETS
.	45 of 47
CONTRACT	PROJECT
.	1592393



TRENCH TERMINOLOGY

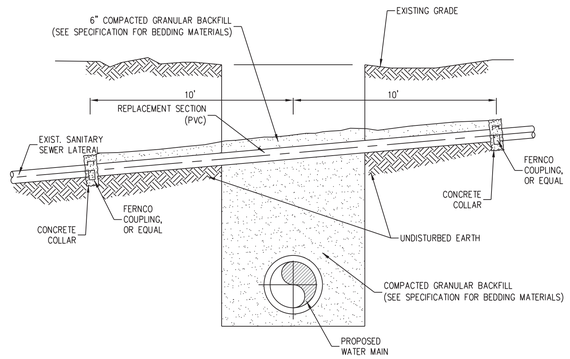
FOUNDATION: A FOUNDATION IS NECESSARY ONLY WHEN NATIVE SOILS ARE UNSTABLE. FOR SUCH CONDITIONS, THE TRENCH IS OVER-EXCAVATED AND A LAYER OF SUPPORTIVE MATERIALS IS PLACED AND COMPACTED TO PROVIDE A FIRM FOUNDATION FOR THE SUBSEQUENT PIPE EMBEDMENT MATERIALS.

EMBEDMENT: THIS ZONE IS THE MOST IMPORTANT IN TERMS OF PIPE PERFORMANCE. IT IS DIVIDED INTO THE FOLLOWING SUB ZONES:

- BEDDING TYPICALLY SIX INCHES OF SUPPORTIVE, COMPACTED MATERIAL. THIS ZONE PROVIDES EVEN SUPPORT FOR THE PIPE AND BRINGS IT TO GRADE.
- HAUNCHING: EXTENDS FROM THE BOTTOM OF THE PIPE TO THE CENTERLINE OF THE PIPE. IT PROVIDES THE MOST RESISTANCE TO PIPE DEFLECTION. SPECIFYING PROPER MATERIALS AND COMPACTION ARE MOST IMPORTANT FOR THIS ZONE.
- INITIAL BACKFILL: EXTENDS FROM THE SPRINGLINE TO A POINT ABOVE THE TOP OF THE PIPE. THIS ZONE PROVIDES SOME PIPE SUPPORT AND HELPS PREVENT DAMAGE TO THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. THE COVER EXTENDS FROM THE TOP OF THE PIPE TO THE TOP OF THE INITIAL BACKFILL. THE DEPTH OF COVER SHOULD BE AS MUCH AS NECESSARY TO PROTECT THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. TWELVE INCHES IS A COMMON DEPTH OF COVER.

FINAL BACKFILL: THIS ZONE EXTENDS FROM THE TOP OF THE INITIAL BACKFILL TO THE TOP OF THE TRENCH. THIS ZONE HAS LITTLE INFLUENCE ON PIPE PERFORMANCE, BUT CAN BE IMPORTANT TO THE INTEGRITY OF ROADS AND STRUCTURES.

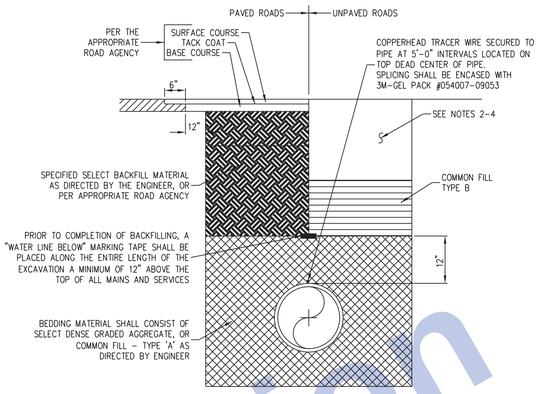
PIPE TRENCH TERMINOLOGY



NOTES:

1. IF THE EXISTING SANITARY SEWER IS CLAY PIPE, THE LATERAL SHALL BE REPLACED WITH A PVC PIPE 10' EACH SIDE OF THE CENTER OF TRENCH.
2. THE CONCRETE COLLAR SHALL BE FORMED AT A JOINT WITH THE EXISTING HOUSE LATERAL USING FERNCO COUPLINGS.
3. WHEN THE SANITARY SEWER OWNER HAS REQUIREMENTS WHICH ARE MORE STRINGENT, THE CONTRACTOR SHALL CONFORM TO THE MORE STRINGENT REQUIREMENTS AND MAKE NO CLAIM FOR ADDITIONAL COMPENSATION OR AN EXTENSION OF TIME BECAUSE OF SUCH REQUIREMENTS.

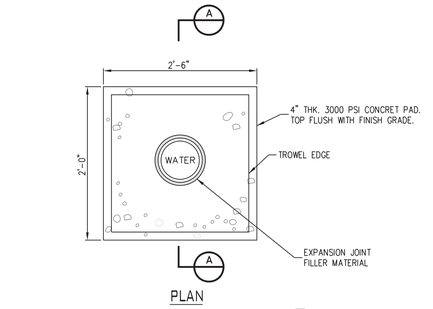
SANITARY SEWER LATERAL REPLACEMENT DETAIL



NOTES:

1. ALL BEDDING AND BACKFILL MATERIALS SHALL BE PROVIDED, PLACED, AND COMPACTED IN SPECIFIED LIFTS IN ACCORDANCE WITH THE ENGINEER'S DIRECTION, OR THE REQUIREMENTS OF THE REGULATING AGENCY HAVING JURISDICTION, IF MORE STRINGENT.
2. IN UPLAND AREAS: SUITABLE SOIL OR TOPSOIL, SEED, MULCH, AND FERTILIZE PER SPECIFICATIONS.
3. IN WETLAND AREAS: TOP 18" TO BE BACKFILLED WITH NATIVE EXCAVATED SOIL, AND REPLANTED WITH NATIVE VEGETATION.
4. IN STREAM CHANNELS, AND ADJACENT STREAM BANKS: TOP 12" RIPRAP, VOIDS FILL WITH NATIVE SOIL

TRENCH RESTORATION DETAIL

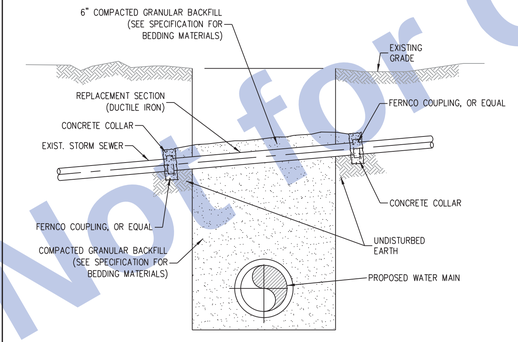


SECTION A-A

NOTE:

IF PAD IS NOT POURED IMMEDIATELY AFTER VALVE BOX INSTALLATION, HOLE SHOULD BE BACKFILLED TO GRADE WITH CLEAN STONE BACKFILL.

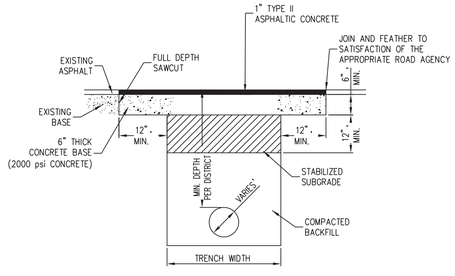
VALVE BOX DETAIL IN UNPAVED AREAS



NOTES:

1. IF THE EXISTING STORM SEWER IS DAMAGED OR REMOVED DURING CONSTRUCTION IT SHALL BE REPLACED ACROSS THE TRENCH SUCH THAT THE CONCRETE COLLARS ARE SUPPORTED ON UNDISTURBED EARTH.
2. THE CONCRETE COLLAR SHALL BE FORMED AT A JOINT WITH THE EXISTING HOUSE LATERAL USING FERNCO COUPLINGS.
3. THE REPLACEMENT SECTION SHALL BE CLASS 350 DUCTILE IRON PIPE WITH AND INSIDE DIAMETER EQUAL TO THE EXISTING PIPE. ANSI/AWWA C151/A21.51 DUCTILE IRON PIPE SHALL BE USED AS A MINIMUM STANDARD.
4. WHEN THE STORM SEWER OWNER HAS REQUIREMENTS WHICH ARE MORE STRINGENT, THE CONTRACTOR SHALL CONFORM TO THE MORE STRINGENT REQUIREMENTS AND MAKE NO CLAIM FOR ADDITIONAL COMPENSATION OR AN EXTENSION OF TIME BECAUSE OF SUCH REQUIREMENTS.

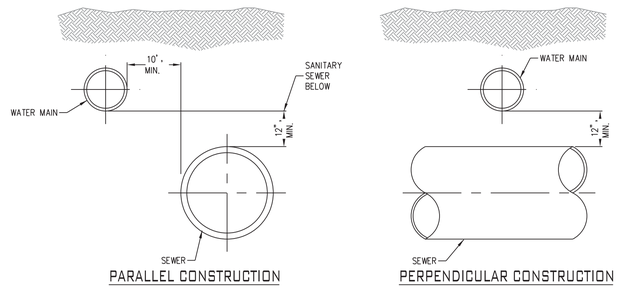
STORM SEWER REPLACEMENT DETAIL



NOTE:

ALL BACKFILLING SHALL BE DONE WITH SUITABLE MATERIAL, TAMPED IN LIFTS NOT TO EXCEED 6", IN ACCORDANCE WITH APPROPRIATE ROAD AGENCY'S SPECIFICATIONS.

PAVEMENT REPAIR DETAIL



PARALLEL CONSTRUCTION

PERPENDICULAR CONSTRUCTION

BASIC SEPARATION REQUIREMENTS:

1. WATER MAINS AND SEWERS SHOULD BE SEPARATED AS FAR AS IS REASONABLE IN BOTH THE HORIZONTAL AND VERTICAL DIRECTIONS WITH SEWERS LOWER THAN WATER MAINS.
2. PARALLEL CONSTRUCTION: THE HORIZONTAL DISTANCE BETWEEN PRESSURE WATER MAINS AND SEWERS SHALL BE AT LEAST 10 FEET
3. PERPENDICULAR CONSTRUCTION (CROSSING): PRESSURE WATER MAINS SHALL BE AT LEAST 18" ABOVE SANITARY SEWERS WHERE THESE LINES MUST CROSS.

REQUIRED SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS

Not for Construction

Clark Dietz ENGINEERS

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP

CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

WATER MAIN DETAILS

HORIZONTAL SCALE	BRIDGE FILE
NONE	
VERTICAL SCALE	DESIGNATION
NONE	1592393
SURVEY BOOK	SHEETS
	46 of 47
CONTRACT	PROJECT
	1592393

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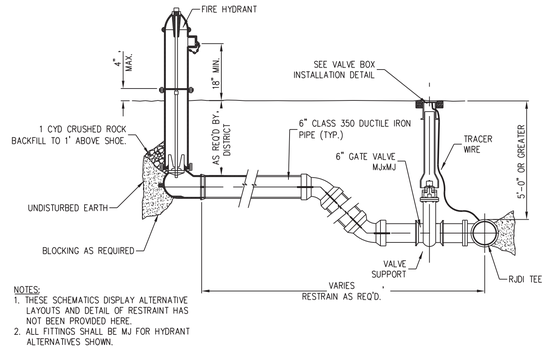
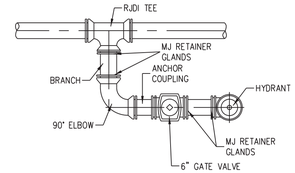


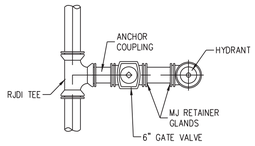
NOTES:
1. THESE SCHEMATICS DISPLAY ALTERNATIVE LAYOUTS AND DETAIL OF RESTRAINT HAS NOT BEEN PROVIDED HERE.
2. ALL FITTINGS SHALL BE MJ FOR HYDRANT ALTERNATIVES SHOWN.

FIRE HYDRANT-DEEP BURY INSTALLATION DETAIL

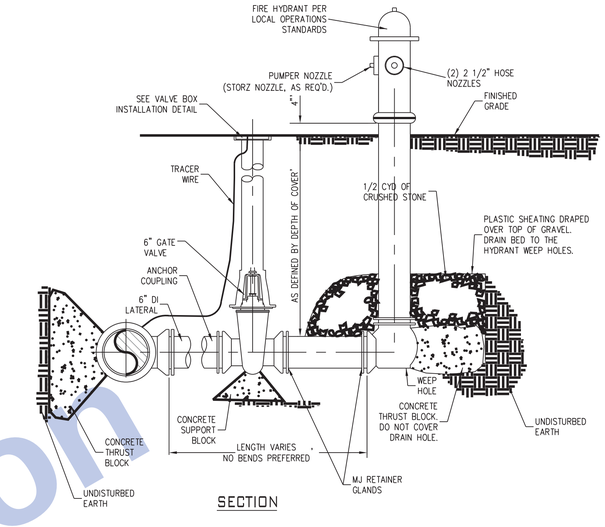
(ALTERNATIVE IS HYDRANT BARREL WITH DEEPER BURY OR BARREL EXTENSIONS PER ENGINEER'S RECOMMENDATIONS.)



INSTALLATION PARALLEL TO MAIN

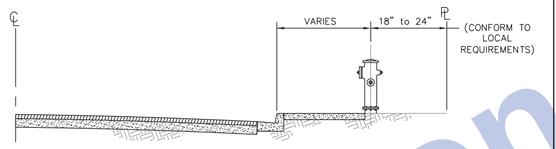


INSTALLATION PERPENDICULAR TO MAIN

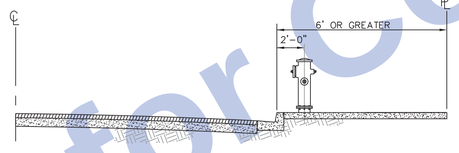


SECTION

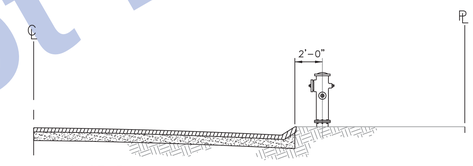
FIRE HYDRANT DETAILS



CASE 1 WHEN SIDEWALKS ARE ADJACENT TO CURB, HYDRANTS SHALL BE CENTERED AT BACK OF SIDEWALK.



CASE 2 WHEN SIDEWALKS ARE CONSTRUCTED WITH WIDTHS GREATER THAN 6' FROM CURB FACE TO OUTSIDE EDGE OF SIDEWALK HYDRANTS SHALL BE PLACED 24" FROM THE CURB FACE.

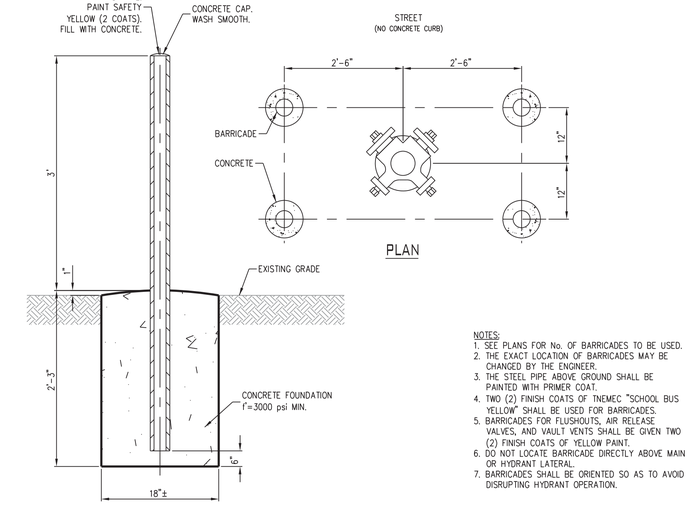


CASE 3 WHEN INVERTED SHOULDER SECTION IS PERMITTED AND CURB, GUTTER AND SIDEWALKS ARE WAIVED, THE HYDRANT SHALL BE CENTERED 24" BEHIND THE EDGE OF PAVEMENT.

NOTES:

1. REQUIREMENT OF LOCAL AUTHORITY HAVING JURISDICTION SHALL PREVAIL. IN THEIR ABSENCE, THE INSTALLATIONS SHOWN MAY BE USED.
2. EXACT HYDRANT LOCATION TO BE FIELD DETERMINED BY LOCAL AUTHORITY HAVING JURISDICTION.

PIPE CURVE GEOMETRY DETAIL



PLAN

SECTION

NOTES:
1. SEE PLANS FOR No. OF BARRICADES TO BE USED.
2. THE EXACT LOCATION OF BARRICADES MAY BE CHANGED BY THE ENGINEER.
3. THE STEEL PIPE ABOVE GROUND SHALL BE PAINTED WITH PRIMER COAT.
4. TWO (2) FINISH COATS OF TNEMEC "SCHOOL BUS YELLOW" SHALL BE USED FOR BARRICADES.
5. BARRICADES FOR FLUSHOUTS, AIR RELEASE VALVES, AND VAULT VENTS SHALL BE GIVEN TWO (2) FINISH COATS OF YELLOW PAINT.
6. DO NOT LOCATE BARRICADE DIRECTLY ABOVE MAIN OR HYDRANT LATERAL.
7. BARRICADES SHALL BE ORIENTED SO AS TO AVOID DISRUPTING HYDRANT OPERATION.

FIRE HYDRANT PROTECTION-PIPE BOLLARD DETAIL

NO SCALE

Not for Construction

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Clark Dietz ENGINEERS

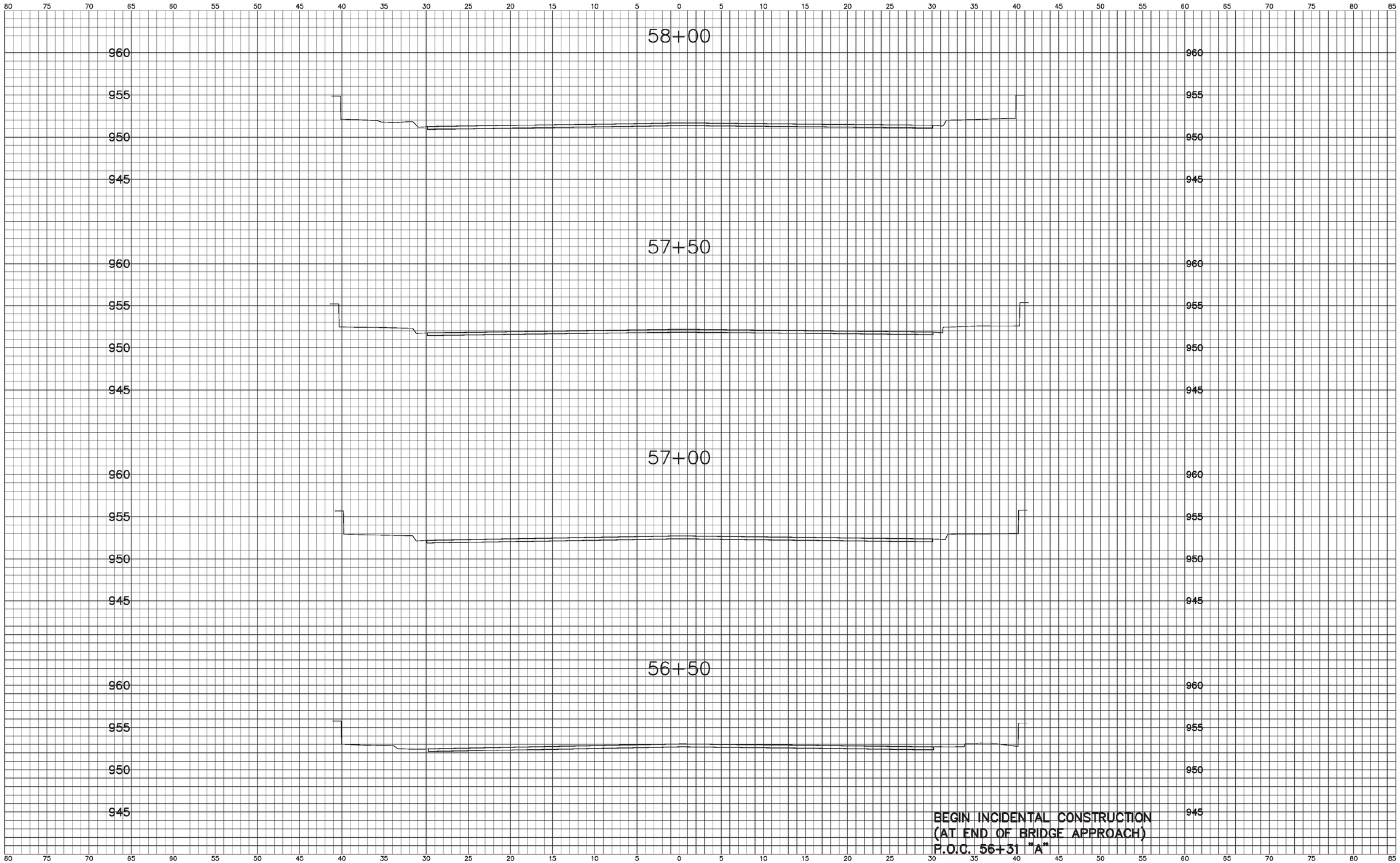
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: GSG DRAWN: MP
CHECKED: JDD CHECKED: JDD

INDIANA DEPARTMENT OF TRANSPORTATION

WATER MAIN DETAILS

HORIZONTAL SCALE	BRIDGE FILE
NONE	.
VERTICAL SCALE	DESIGNATION
NONE	1592393
SURVEY BOOK	SHEETS
.	47 of 47
CONTRACT	PROJECT
.	1592393



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80% Plans

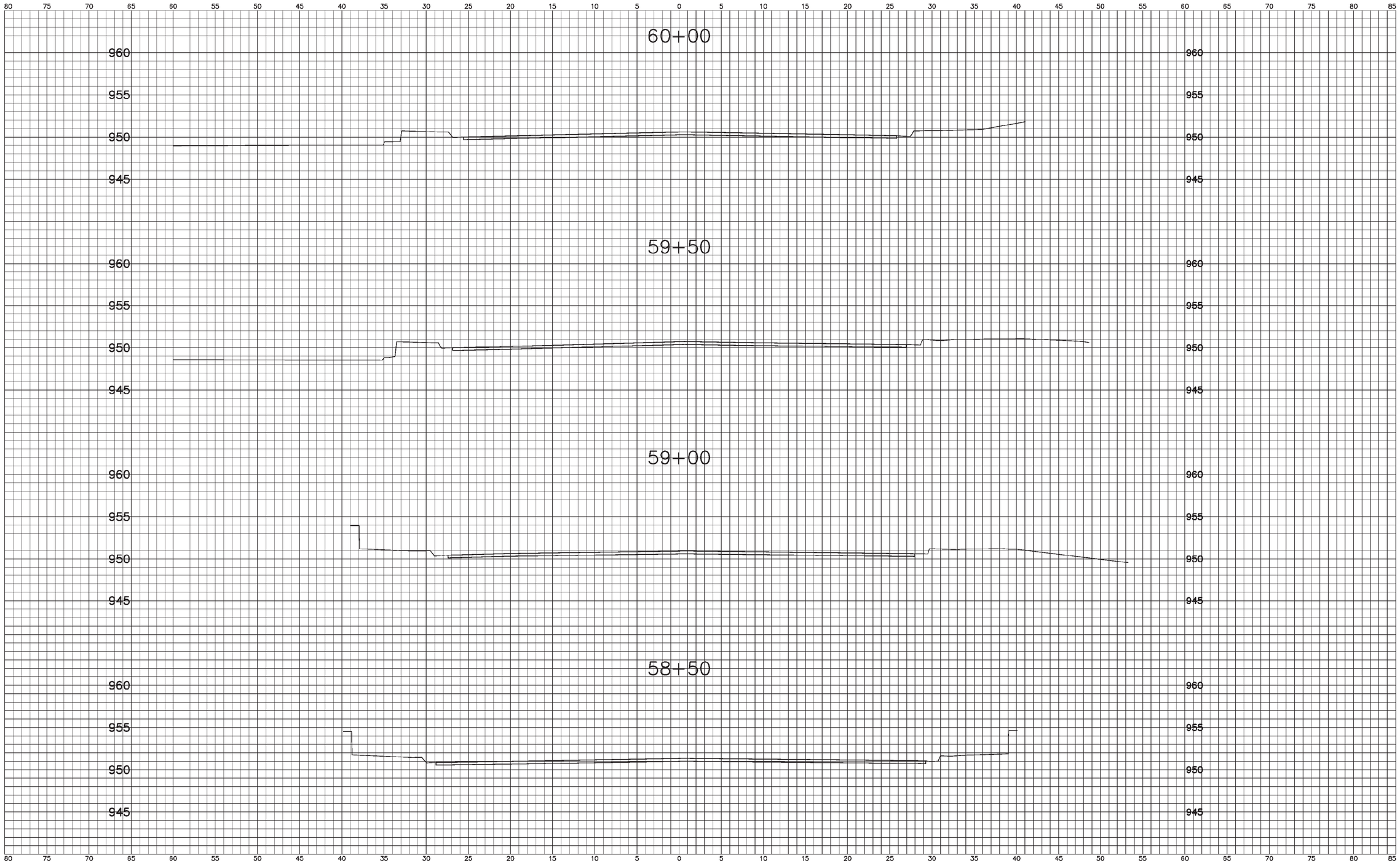
DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street)

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790



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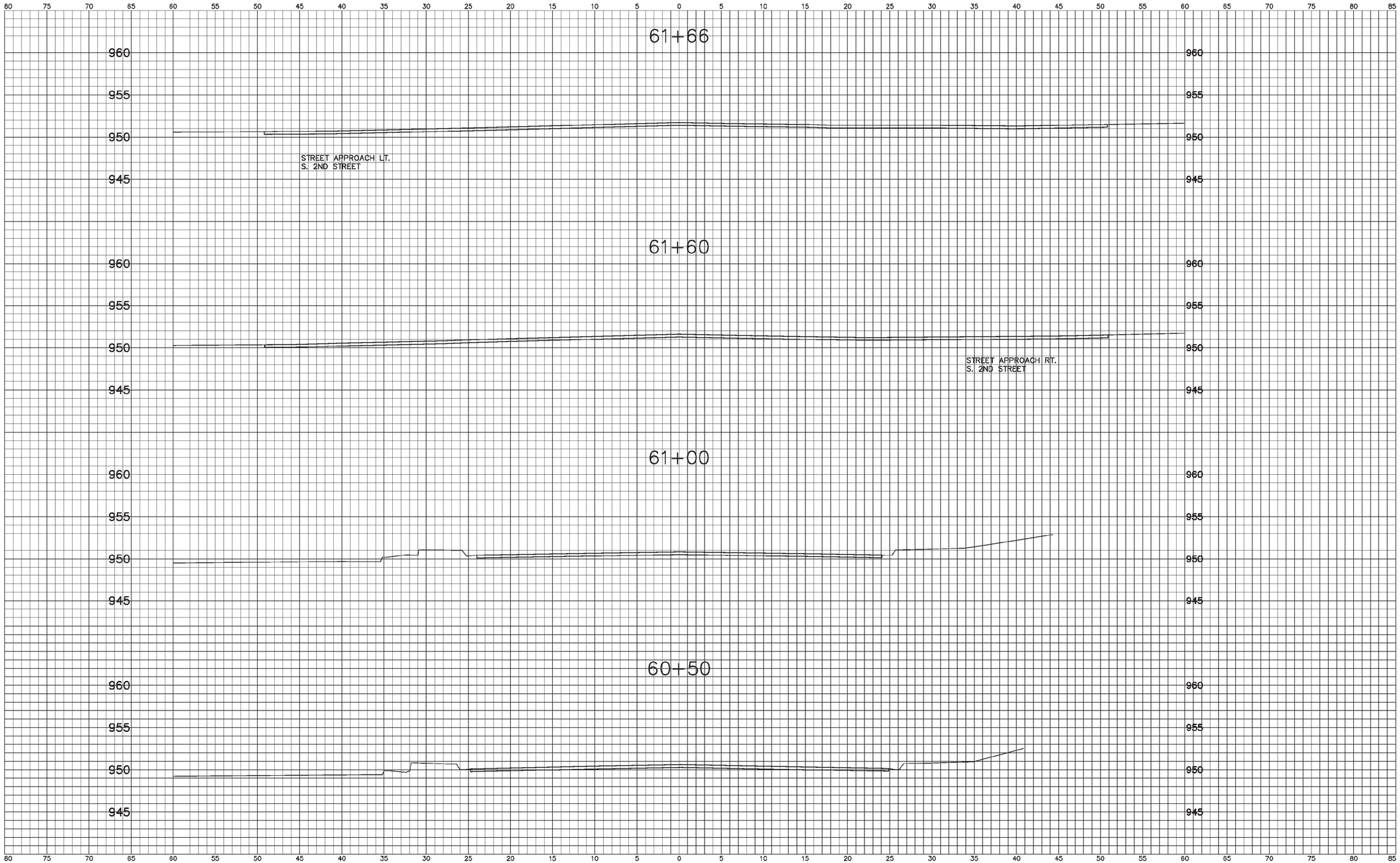
80% Plans

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street)

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790
SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790



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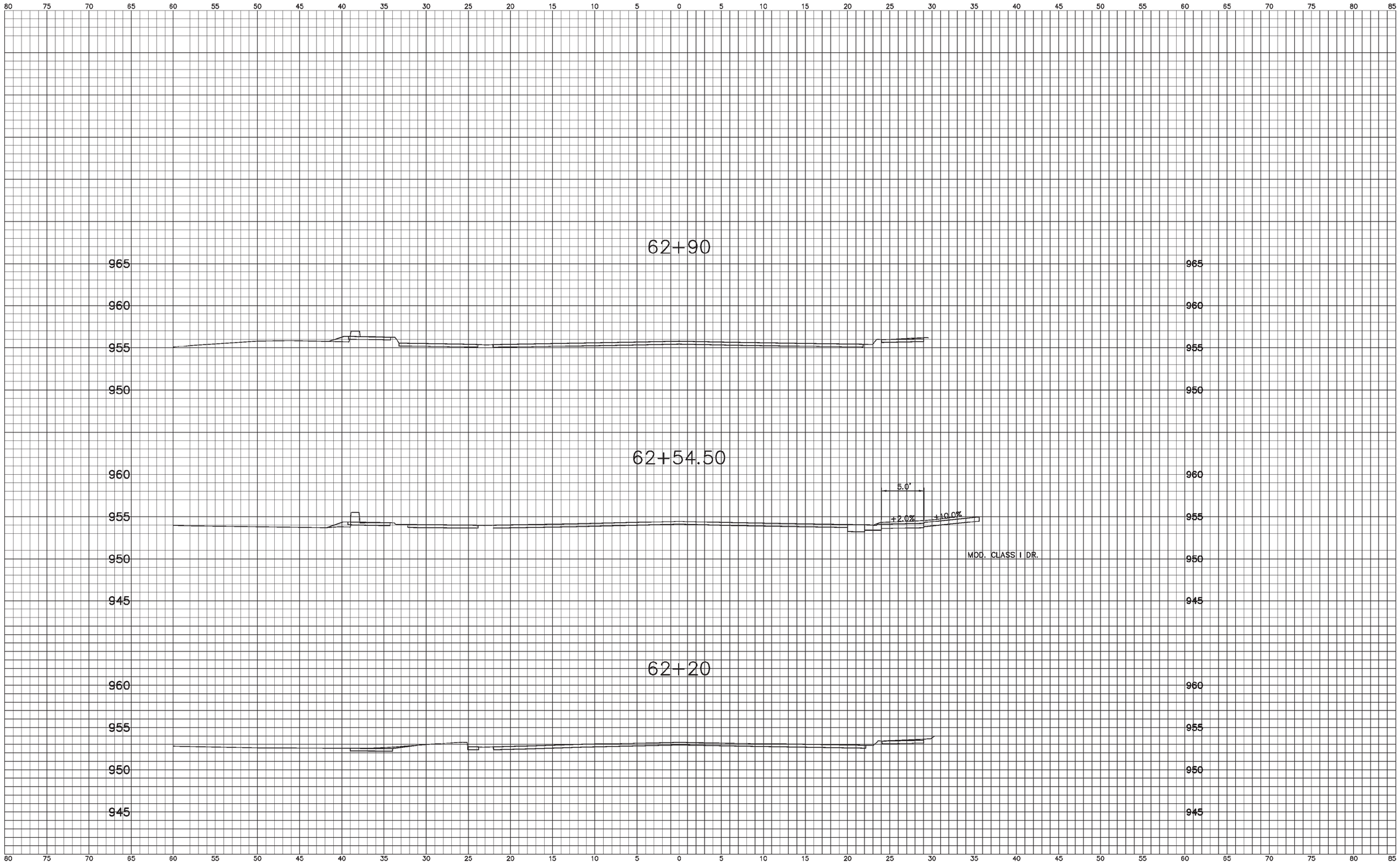
80% Plans

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street)

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790
SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790



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80% Plans

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street)

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790
SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

65+00

STA. 65+04.87 "PR-1"(BACK) =
STA. 65+04.94 "A"(AHEAD)

970 965 960

STREET APPROACH LT. & RT.
S. 3RD STREET

970 965 960

64+50

965 960 955

965 960 955

64+00

STA. 64+14.20 "A"(BACK) =
STA. 64+14.20 "PR-1"(AHEAD)

965 960 955

965 960 955

63+66

965 960 955

+2.0%

MOD. CLASS I DR.

965 960 955

63+30

960 955 950

+2.0% +7.6%

ALLEY APPROACH

960 955 950

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

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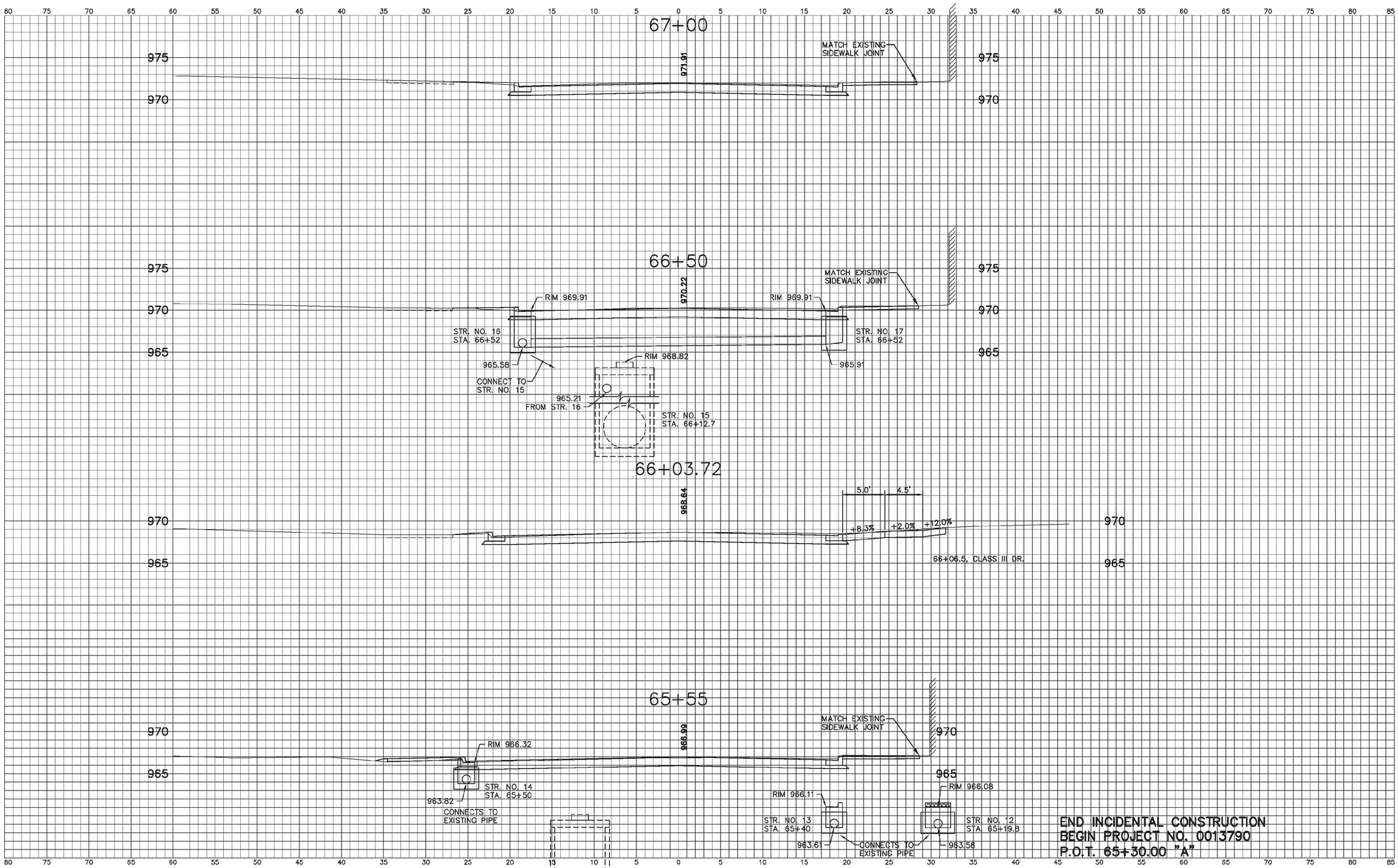
80% Plans

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street)

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790
SURVEY BOOK	SHEETS
17327	. of .
CONTRACT	PROJECT
R-30353	0013790



80% Plans

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street)

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790

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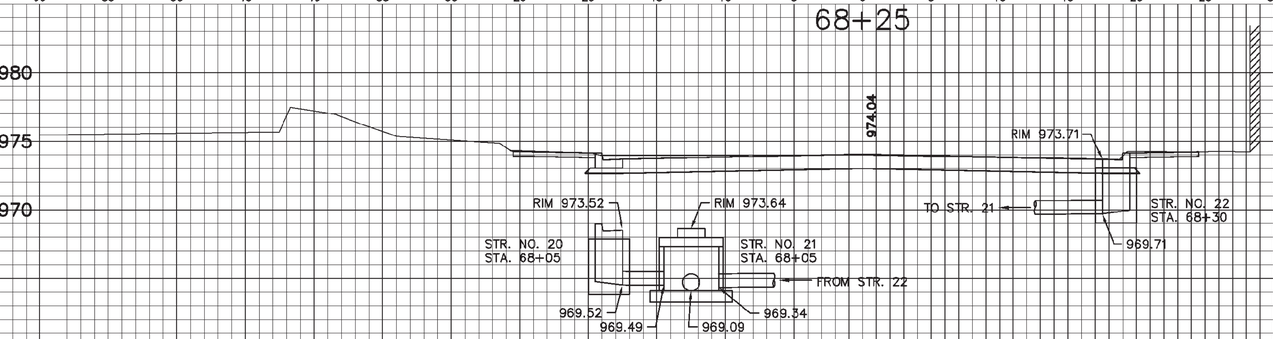
68+25



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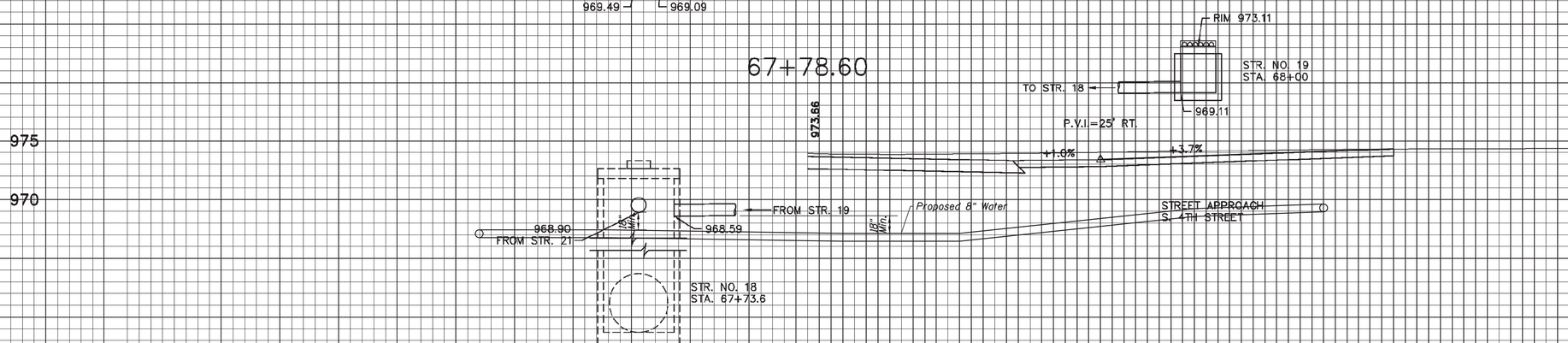
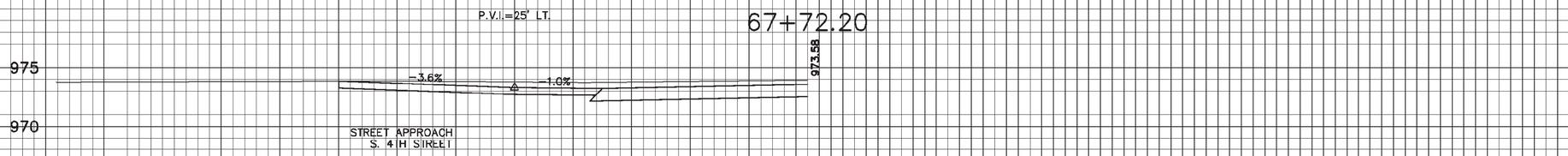


67+72.20



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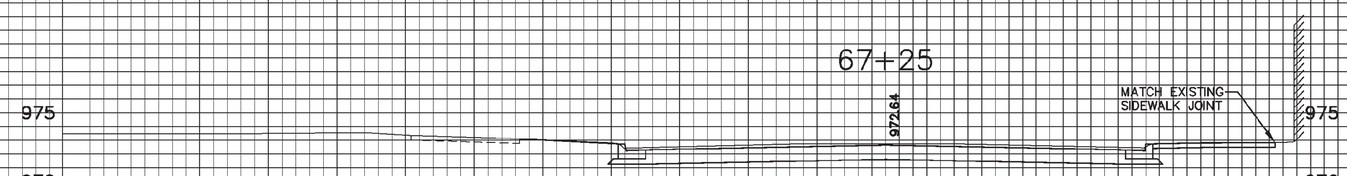

80% Plans

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790

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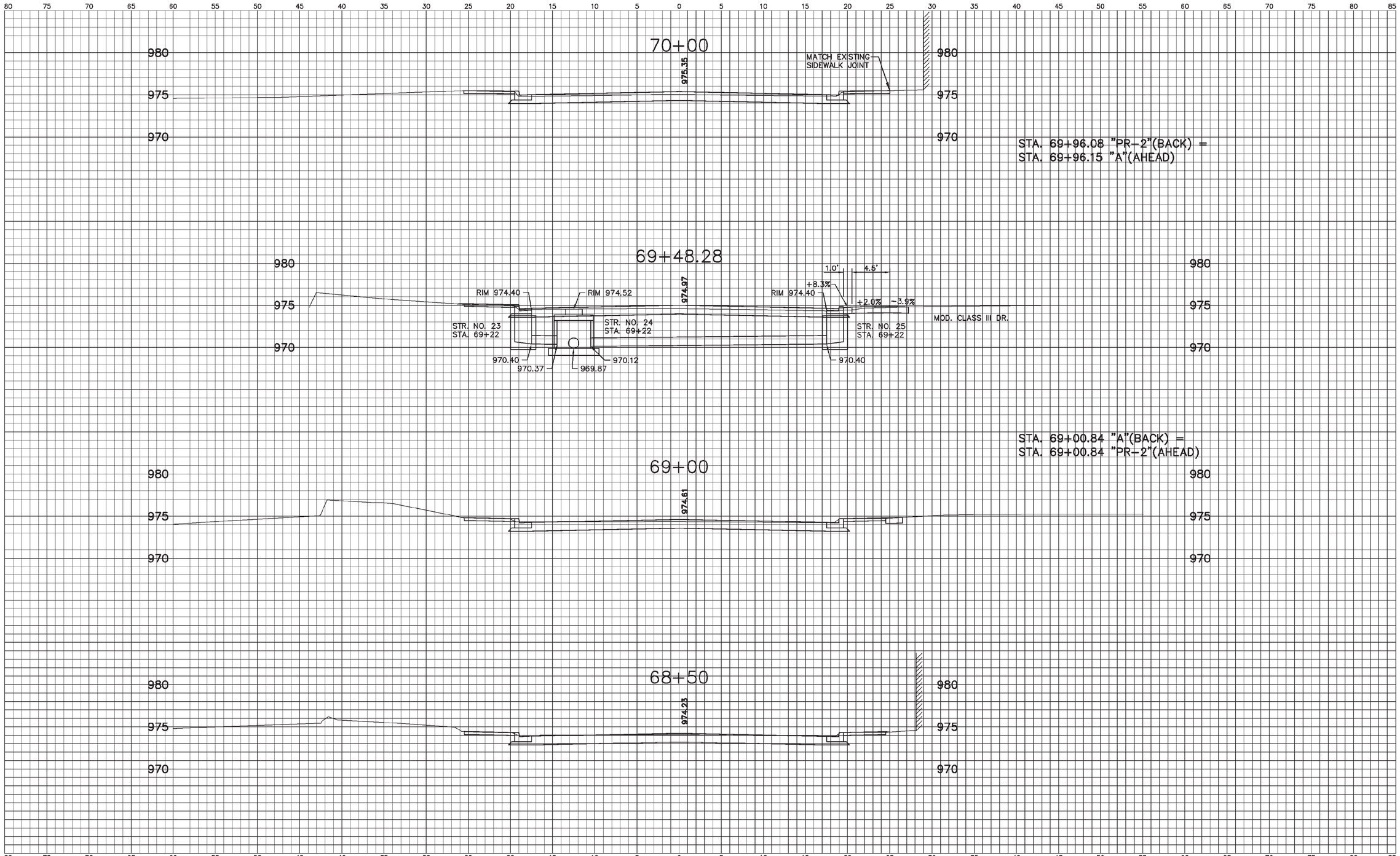


80% Plans

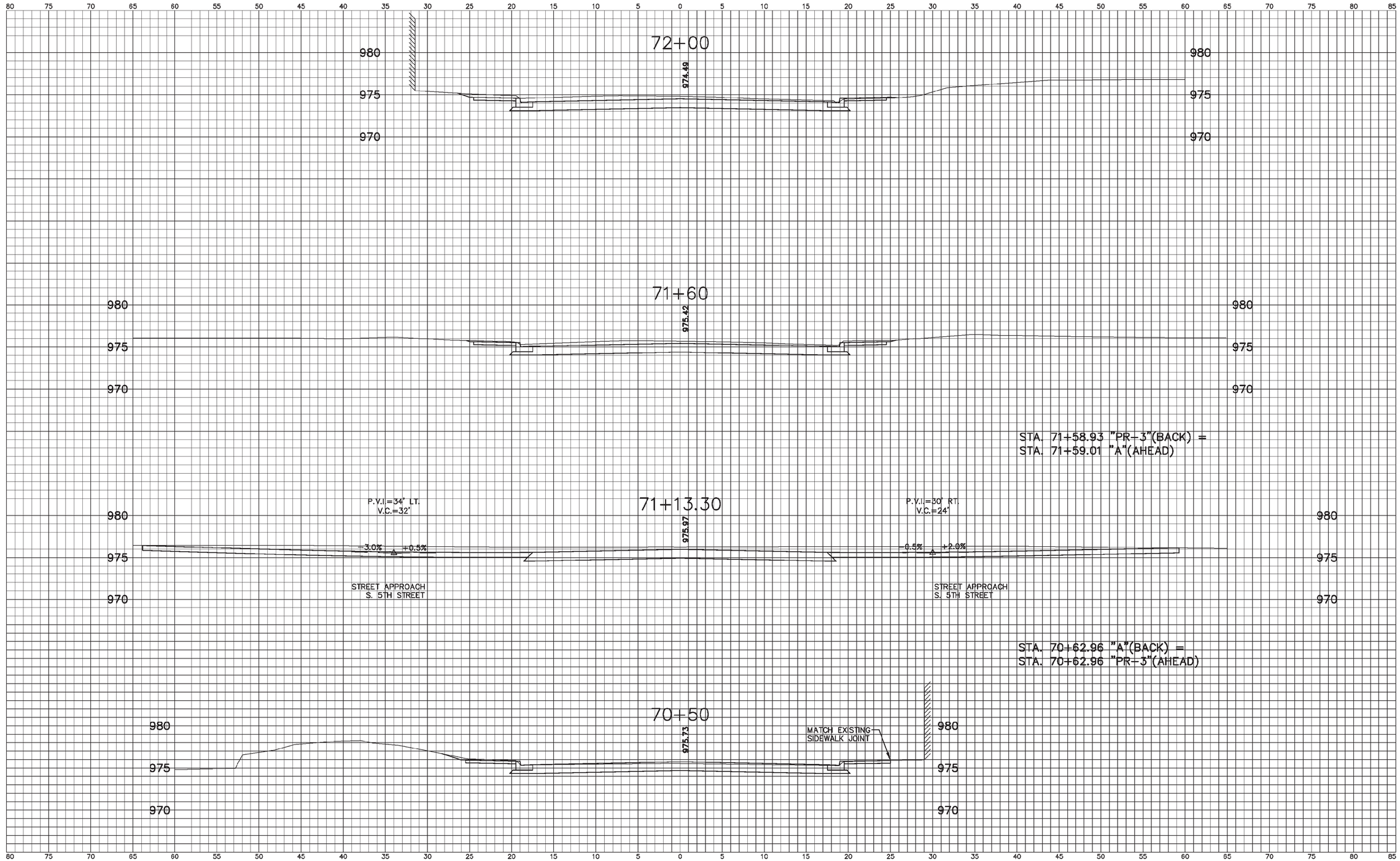
DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	of
CONTRACT	PROJECT
R-30353	0013790



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80% Plans

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

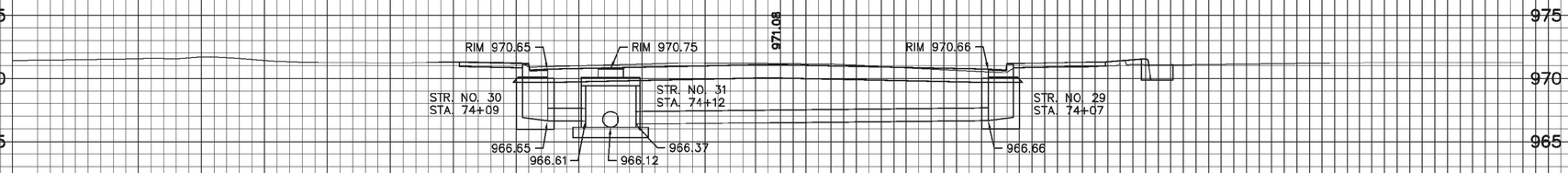
Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

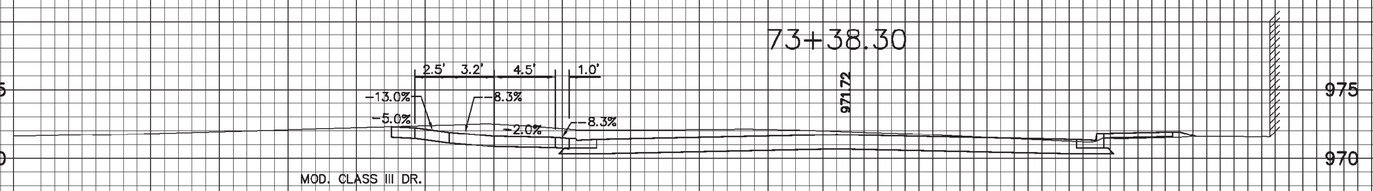
SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790

STA. 74+11.55 "A"(BACK) =
STA. 74+11.55 "PR-4"(AHEAD)

74+00



73+38.30



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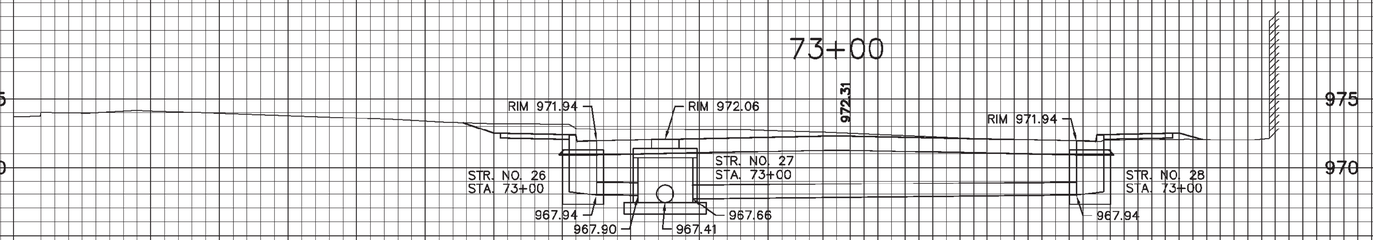

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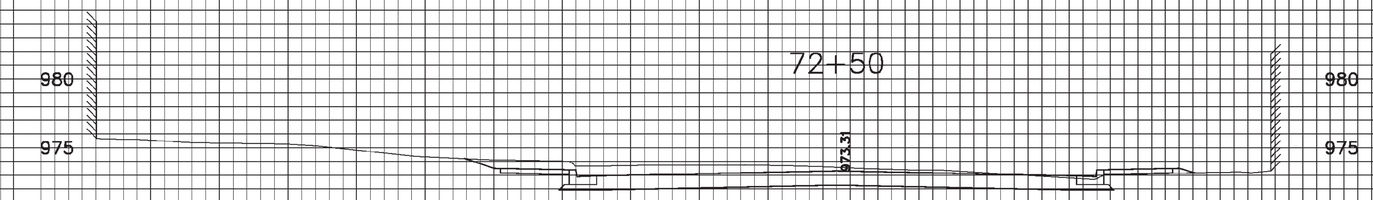

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80% Plans

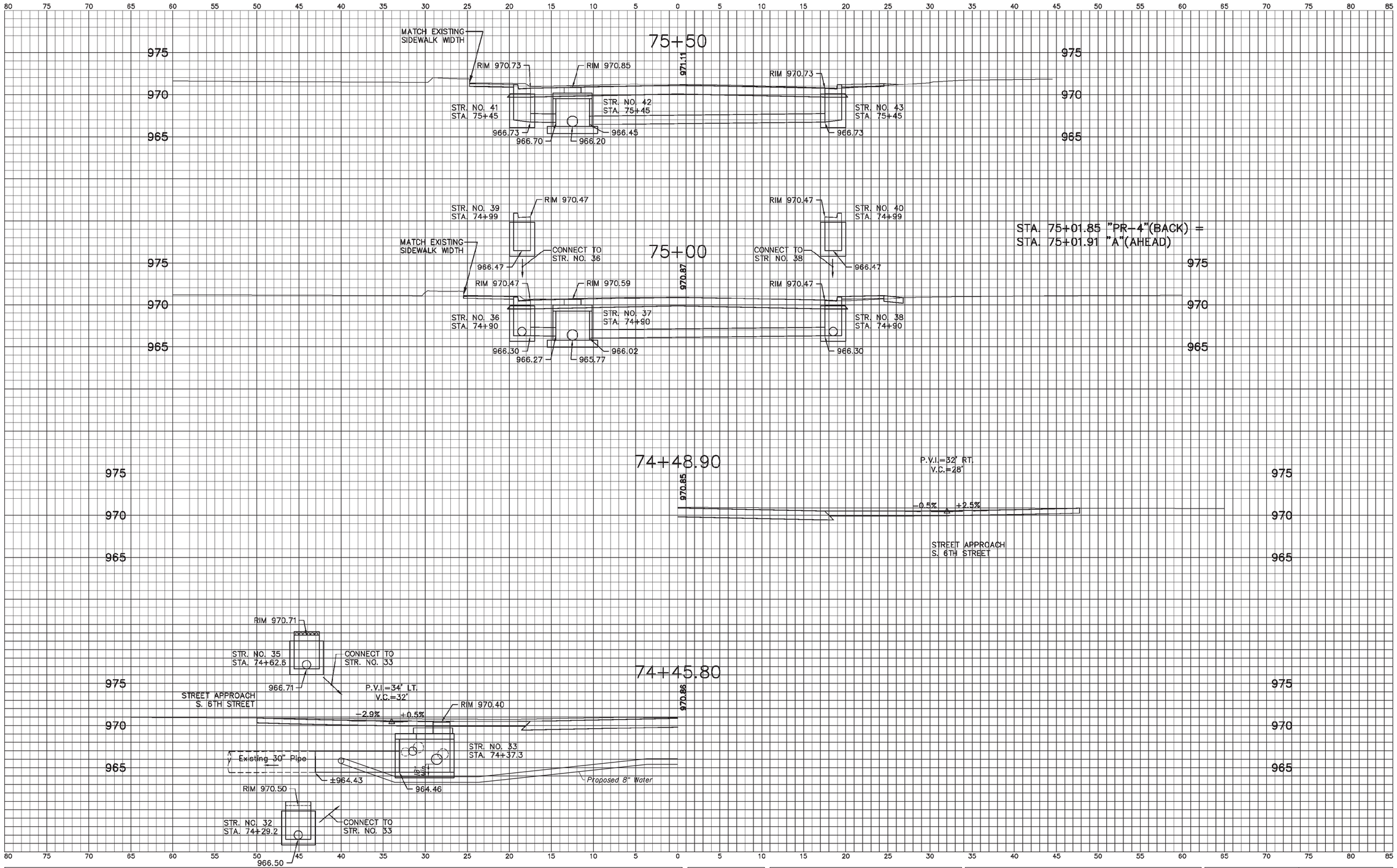
DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790



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80% Plans

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

975
970

MATCH EXISTING SIDEWALK WIDTH

76+50

971.77

975
970

MATCH EXISTING SIDEWALK WIDTH

76+28.60

971.63

1.0'
4.5'
+8.3%
+2.0%
+12.0%

MOD. CLASS III DR.

975
970

MATCH EXISTING SIDEWALK WIDTH

76+00

971.44

RIM 971.09
RIM 971.21
RIM 971.09

STR. NO. 44
STA. 76+00

STR. NO. 45
STA. 76+00

STR. NO. 46
STA. 76+00

967.09
967.06
966.81
966.56
967.09

975
970
965

MATCH EXISTING SIDEWALK WIDTH

75+74.23

971.27

1.0'
4.5'
+8.3%
+2.0%
+3.6%

MOD. CLASS III DR.

975
970
965

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

80% Plans

DESIGNED: J.P.H.
DRAWN: J.P.H.
CHECKED: J.L.B.
CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. of .
CONTRACT	PROJECT
R-30353	0013790

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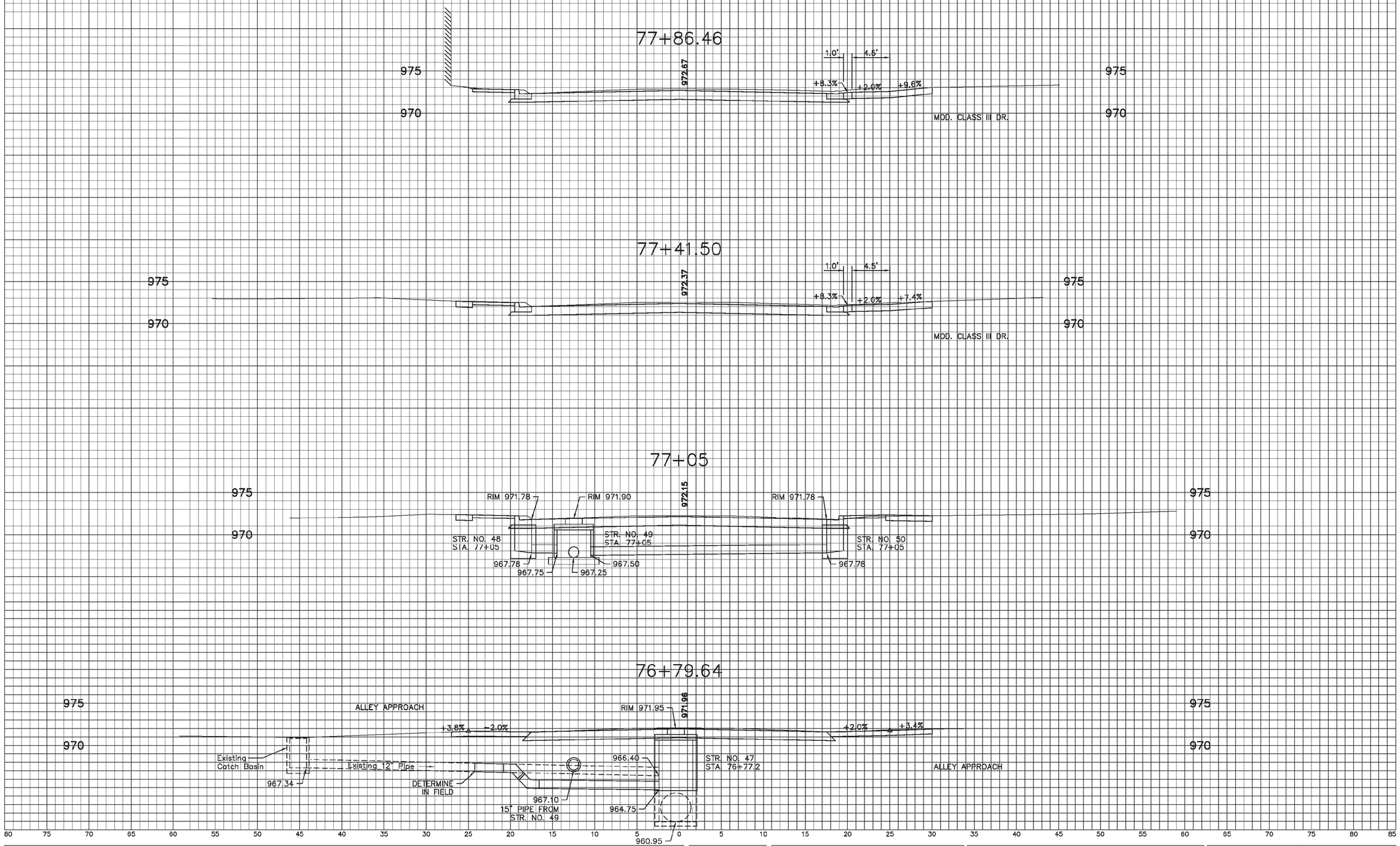

80% Plans

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. of .
CONTRACT	PROJECT
R-30353	0013790

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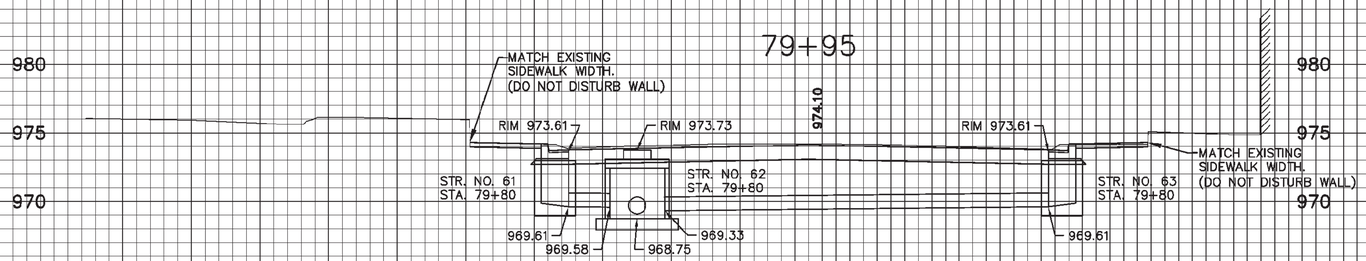

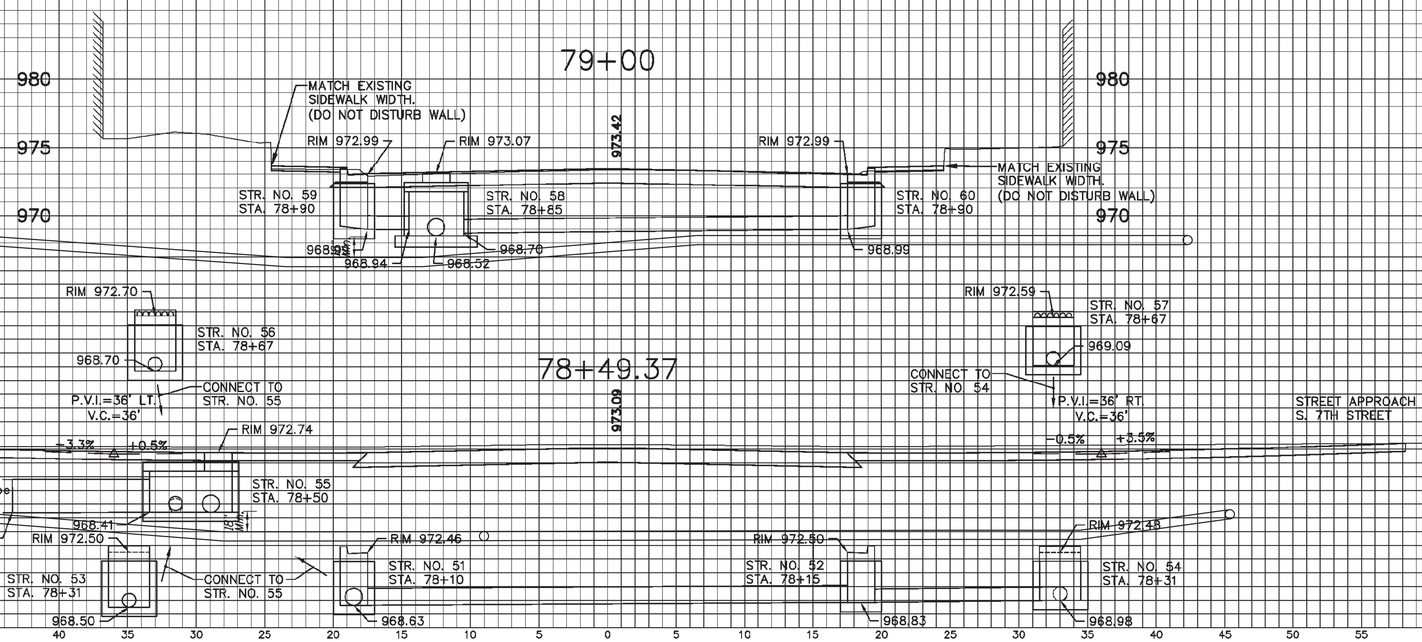

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CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

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U.S. 40 Eastbound (South A Street))

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1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
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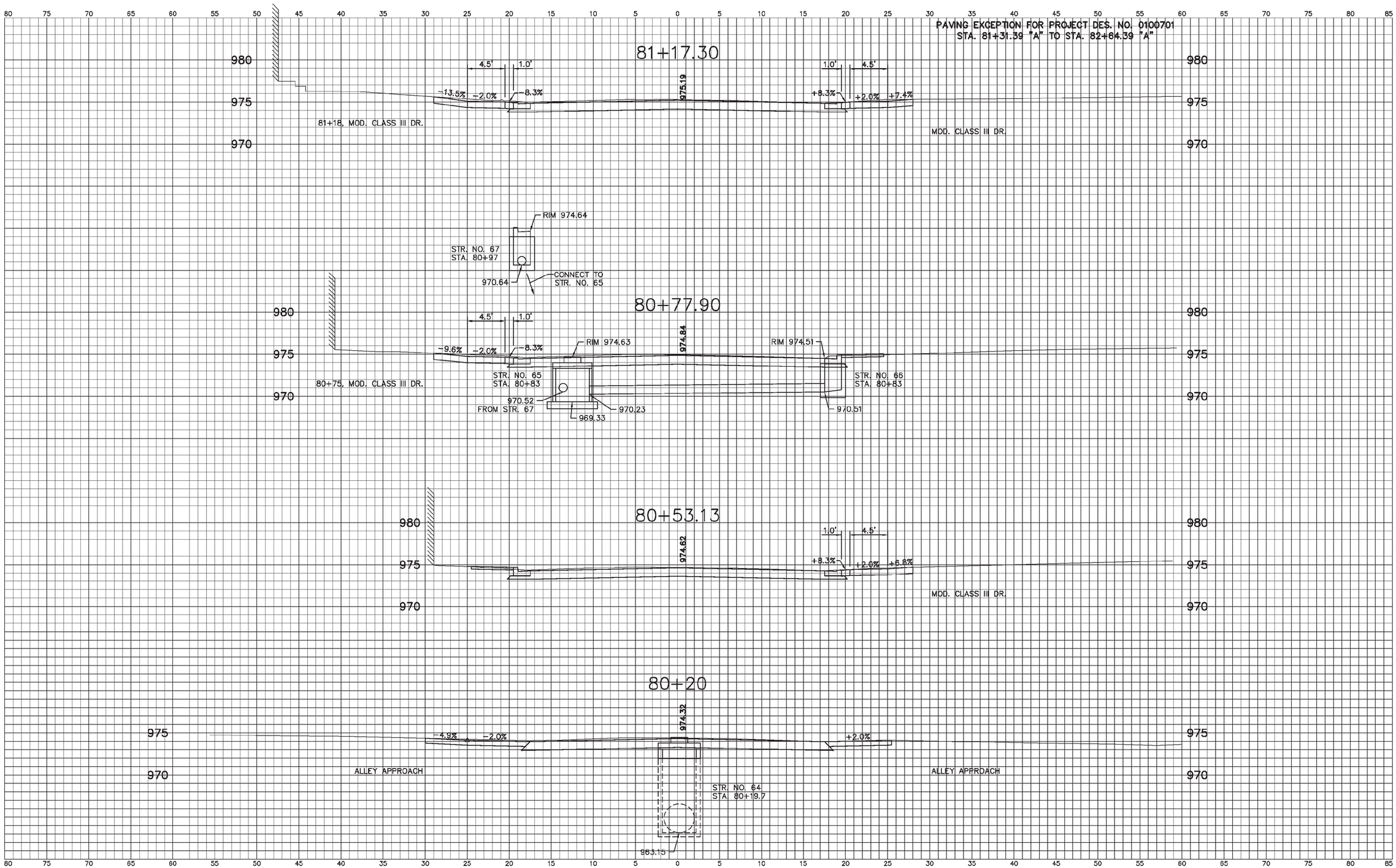
SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790

8:05:10 PM 8/25/2016 P:\10150090_IN Amer Water - US 27-US 40 Water Main\Plans\XSect\xs_A_sht.dgn

PAVING EXCEPTION FOR PROJECT DES. NO. 0100701
STA. 81+31.59 "A" TO STA. 82+64.39 "A"



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CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

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U.S. 40 Eastbound (South A Street))

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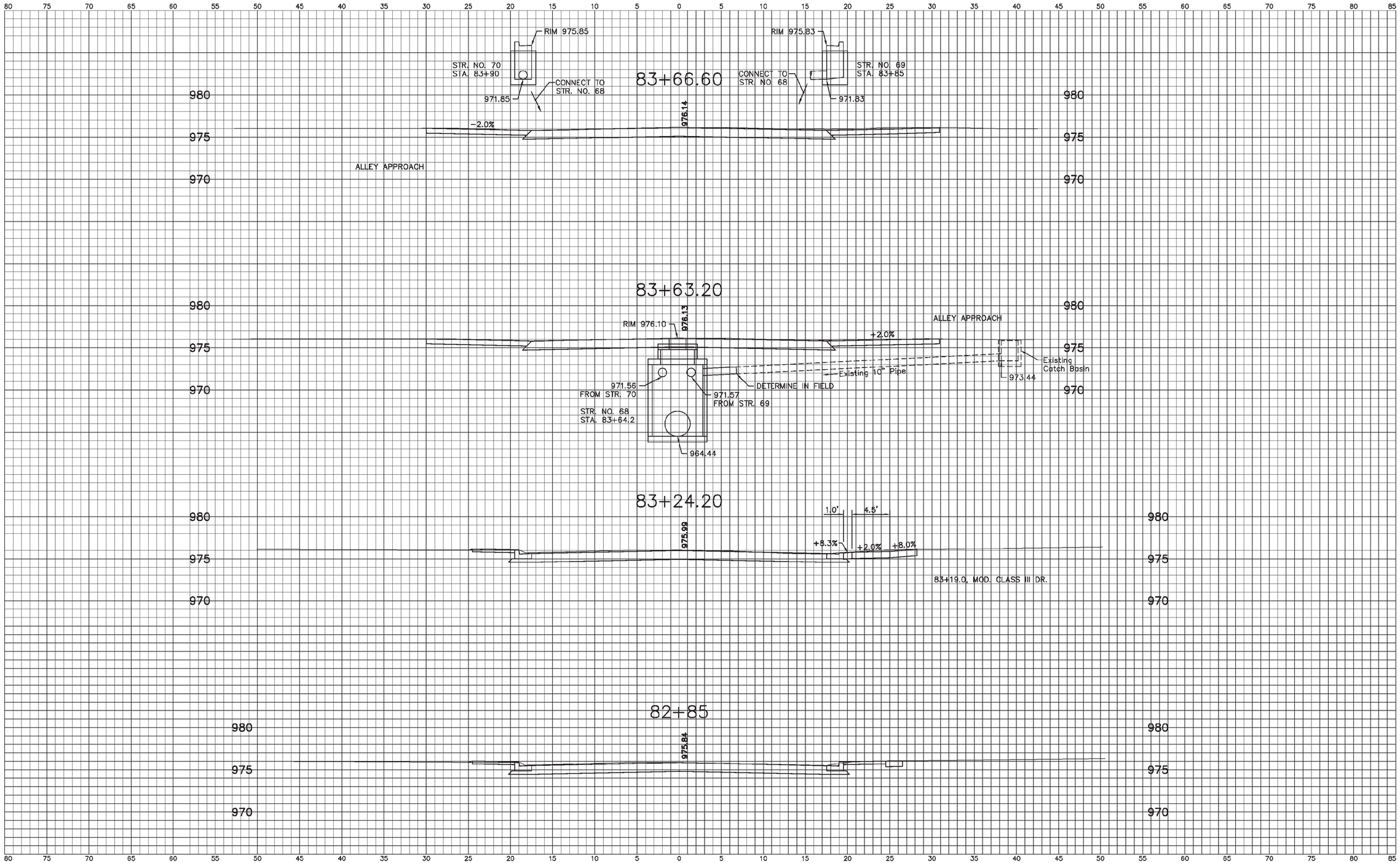
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. of .
CONTRACT	PROJECT
R-30353	0013790



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CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

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U.S. 40 Eastbound (South A Street))

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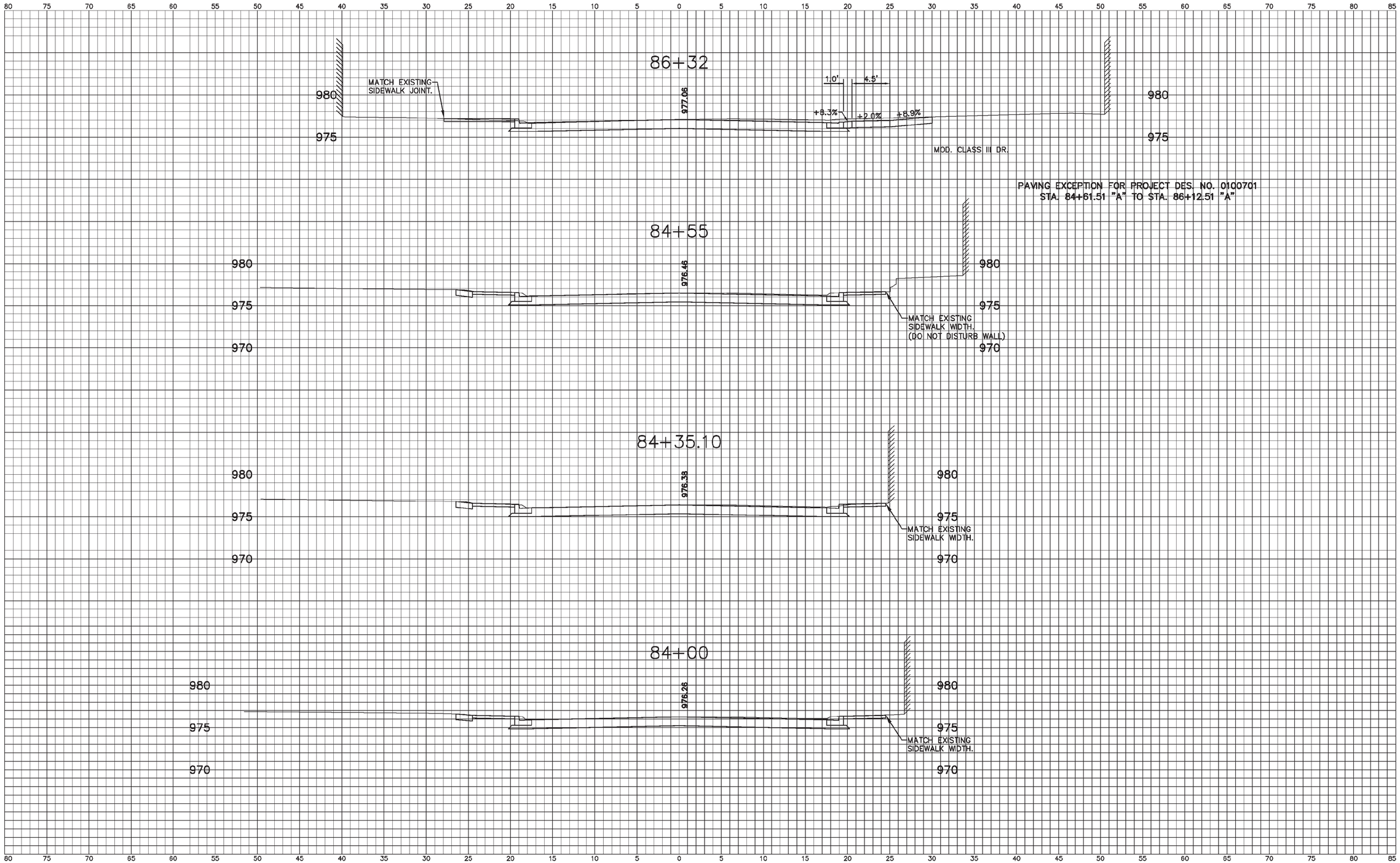
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. of .
CONTRACT	PROJECT
R-30353	0013790



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CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

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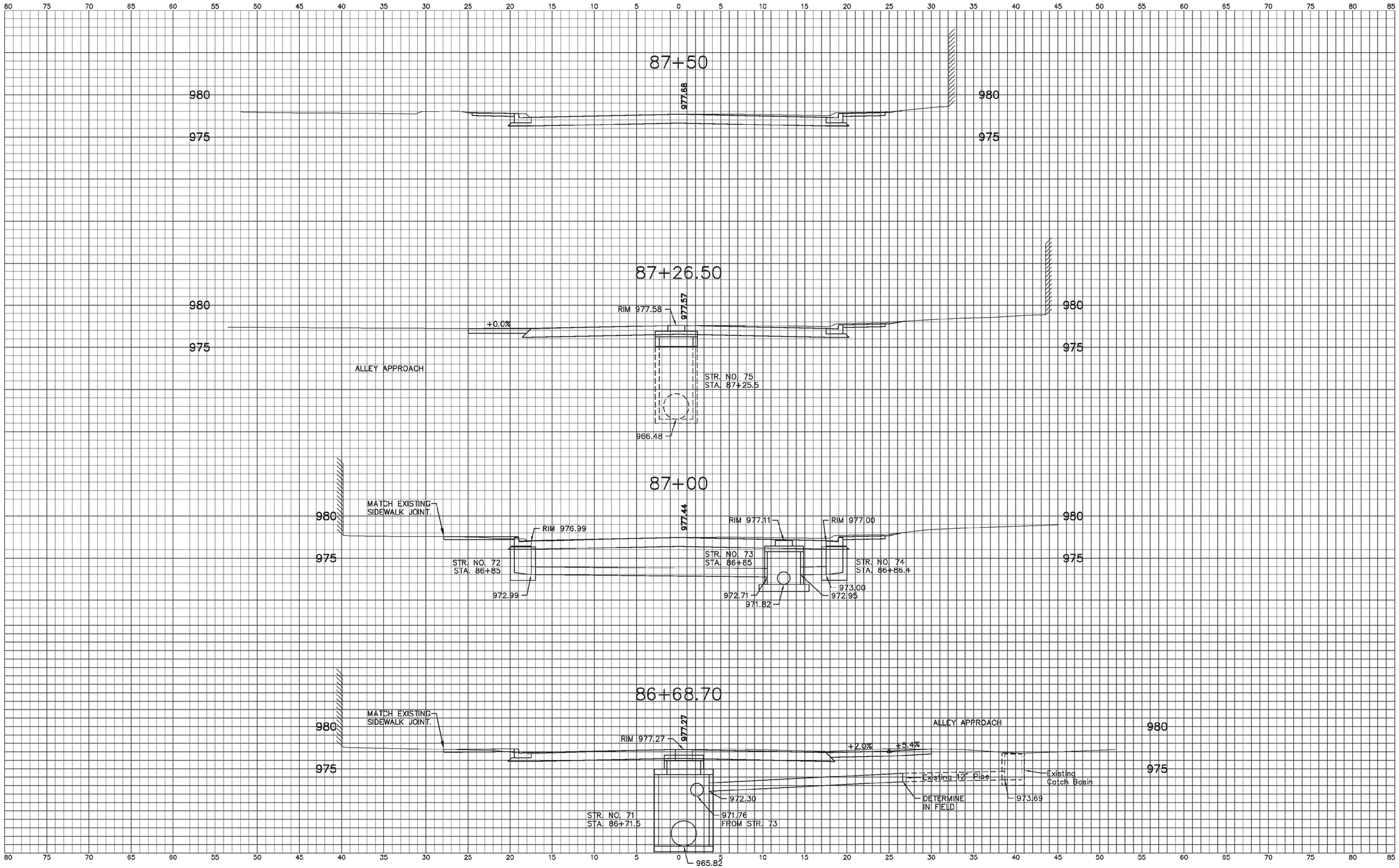
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790
SURVEY BOOK	SHEETS
17327	. of .
CONTRACT	PROJECT
R-30353	0013790



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CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790
SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790

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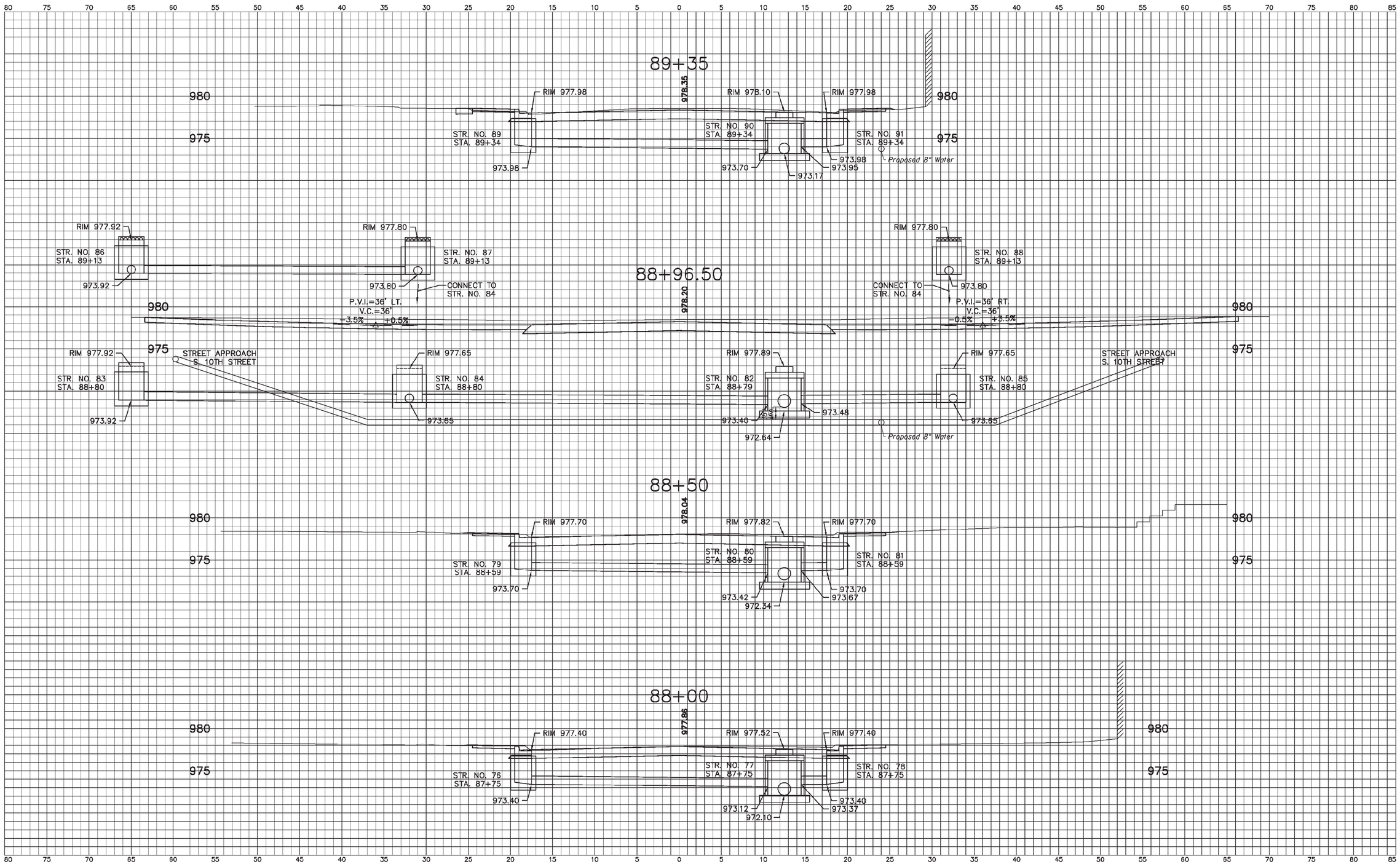

80% Plans

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DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

DESIGNED: J.P.H.	DRAWN: J.P.H.
CHECKED: J.L.B.	CHECKED: J.L.B.

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. of .
CONTRACT	PROJECT
R-30353	0013790

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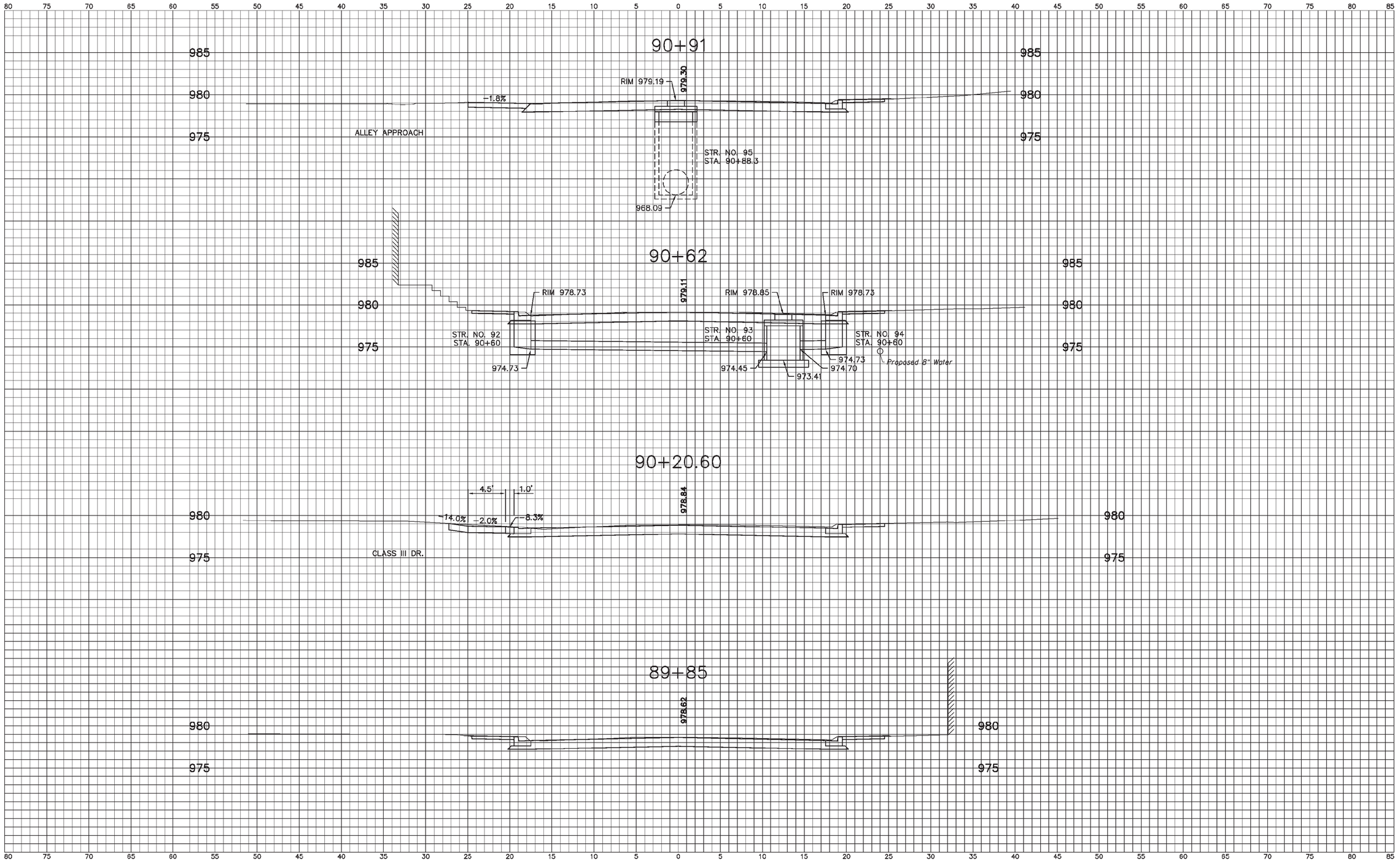

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INDIANA
DEPARTMENT OF TRANSPORTATION

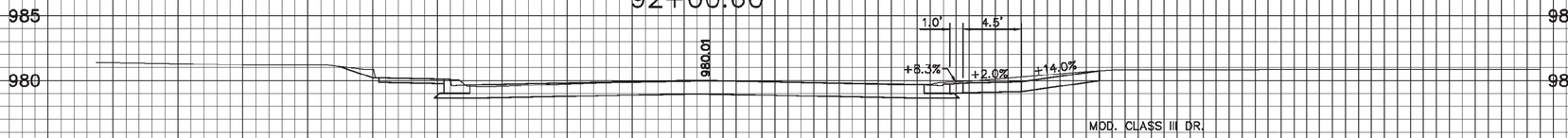
Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

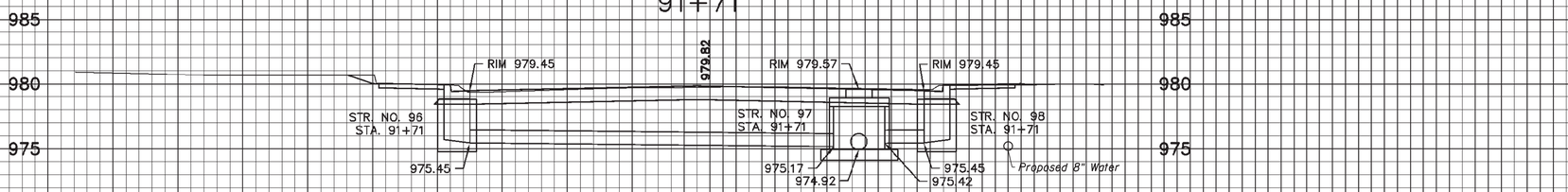
SURVEY BOOK	SHEETS
17327	. of .
CONTRACT	PROJECT
R-30353	0013790

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

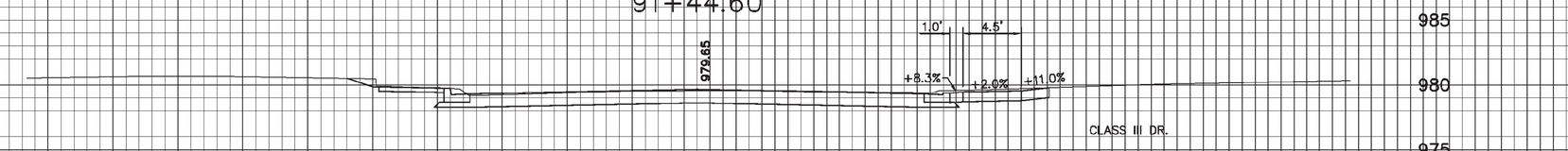
92+00.60



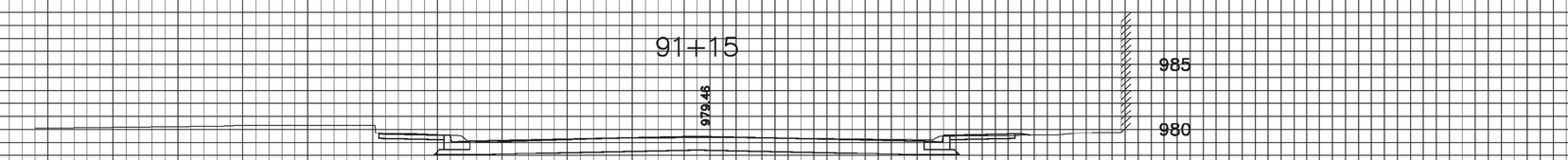
91+71



91+44.60



91+15



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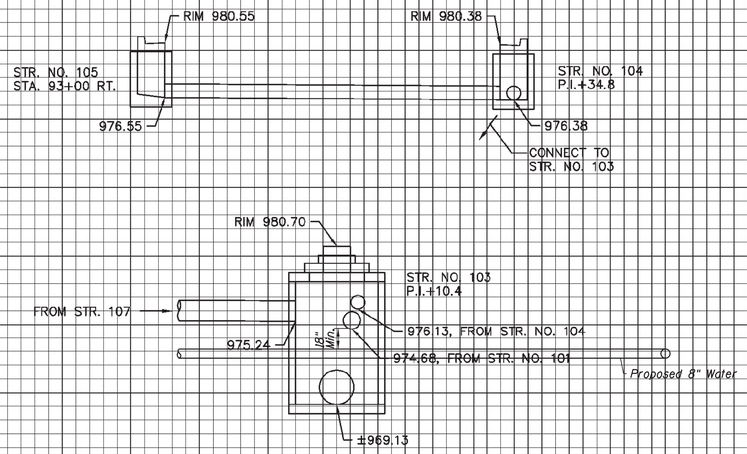
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

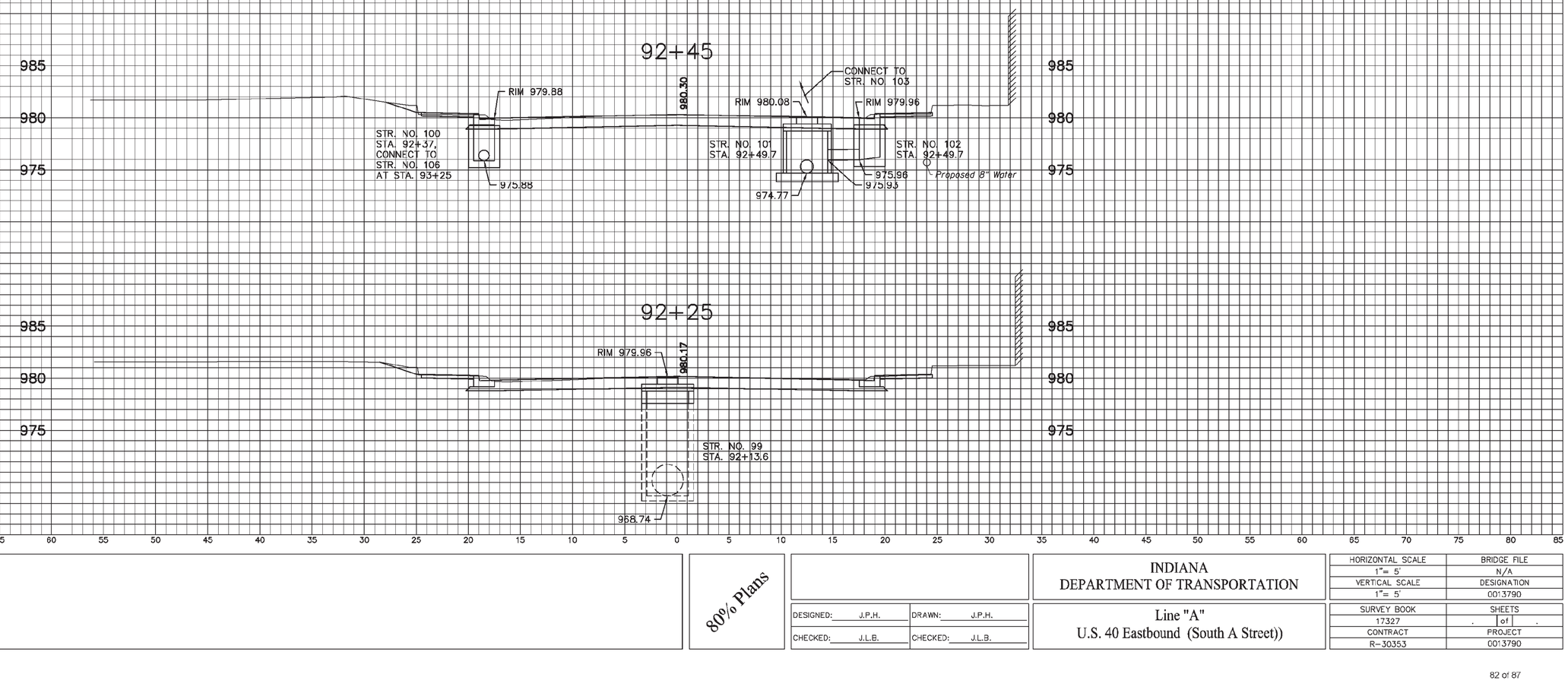
HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790



P.I. 92+86.53 "A"
Δ =90°19'01" LT.
(NO CURVE RUN)

END PROFILE GRADE
STA. 92+50.00 "A"



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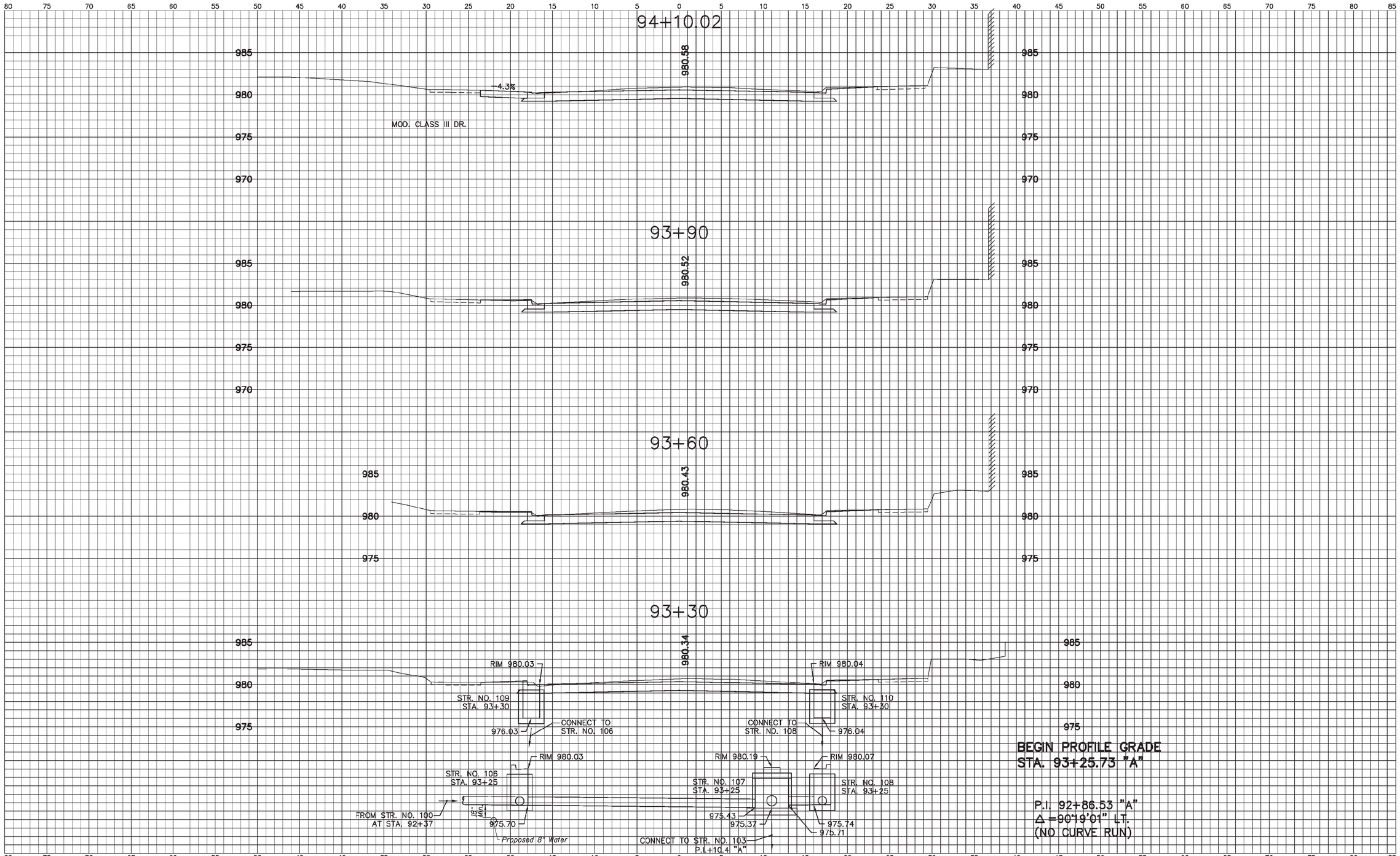
CHECKED: J.L.B. CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South A Street))

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790



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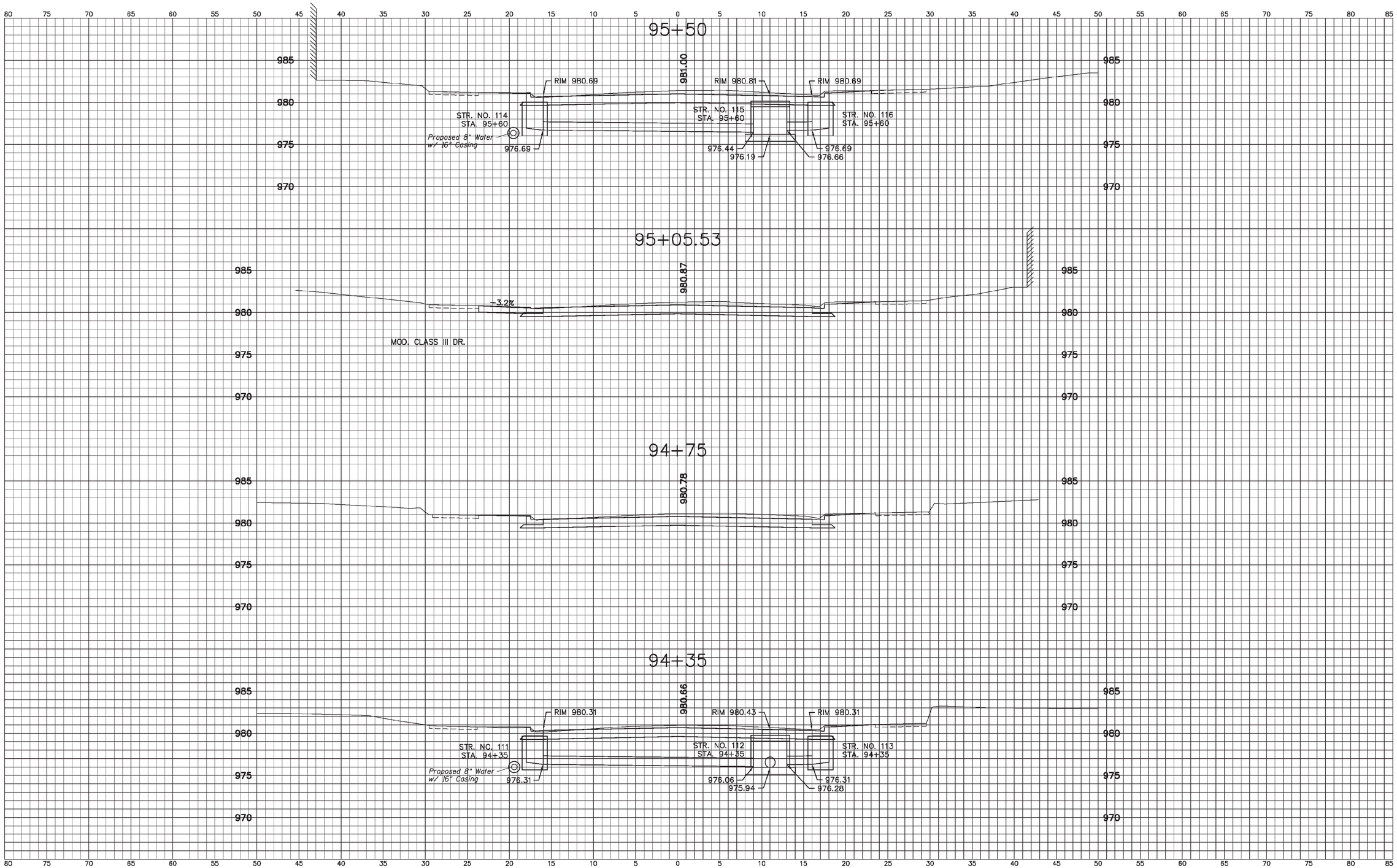
CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
U.S. 40 Eastbound (South 11th Street)

HORIZONTAL SCALE	BRIDGE FILE
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790



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CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
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Line "A"
U.S. 40 Eastbound (South 11th Street)

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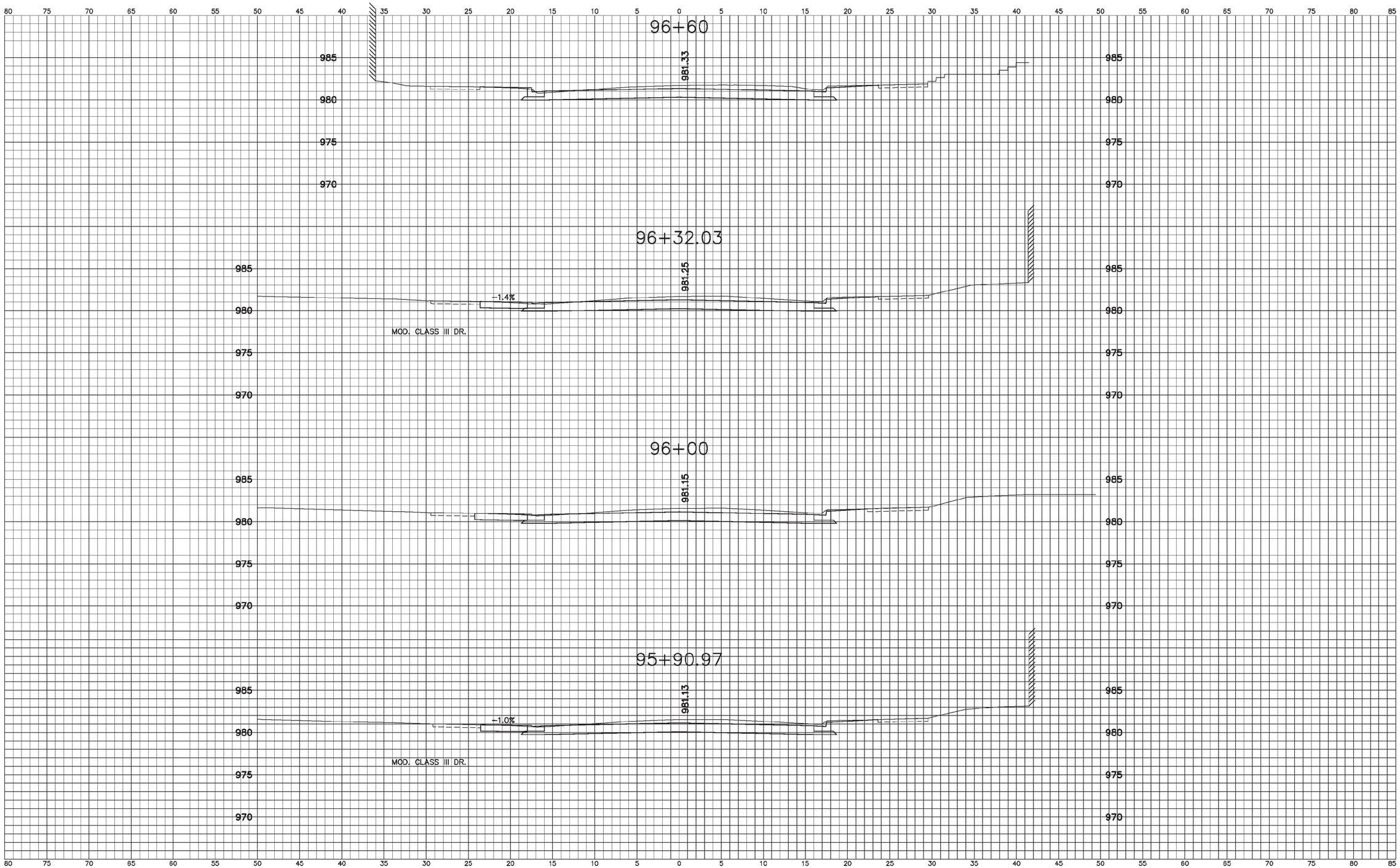
1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790
SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT



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CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
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VERTICAL SCALE	DESIGNATION
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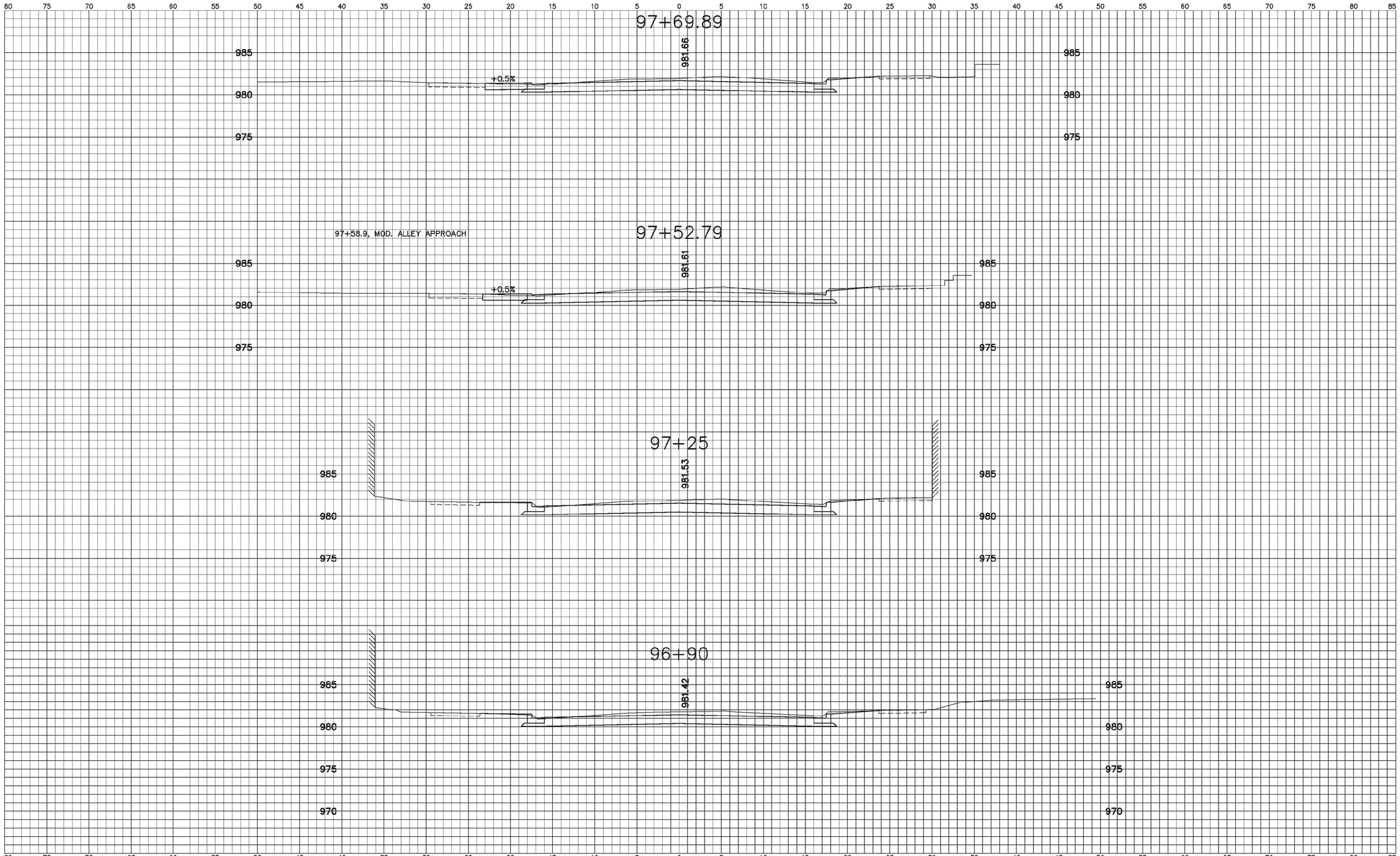
SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790



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CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

Line "A"
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1"= 5'	N/A
VERTICAL SCALE	DESIGNATION
1"= 5'	0013790

SURVEY BOOK	SHEETS
17327	. | of | .
CONTRACT	PROJECT
R-30353	0013790

END PROJECT NO. 0013790
STA. 99+55.22 "A"

99+30

Existing 6" Pipe
RIM 981.80
STR. NO. 117
STA. 99+58.9
DETERMINE IN FIELD
979.30
982.11
Proposed 8" Water

98+99.17

982.05
8.0'
-2.8%
+7.6%
+2.0%
MOD. CLASS III DR.
99+00.7, CLASS III DR.

98+70

981.96

98+30

981.84

98+05.39

981.77
+1.3%
ALLEY APPROACH

985
980
975

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CHECKED: J.L.B.	CHECKED: J.L.B.

INDIANA
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SURVEY BOOK	SHEETS
17327	of
CONTRACT	PROJECT
R-30353	0013790