# FALL CREEK REGIONAL WASTE DISTRICT SANITARY SEWER REHABILITATION PROJECT PHASE II

# PENDLETON, INDIANA



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- BOARD MEMBER

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- BOARD MEMBER

TERESA HUTTON

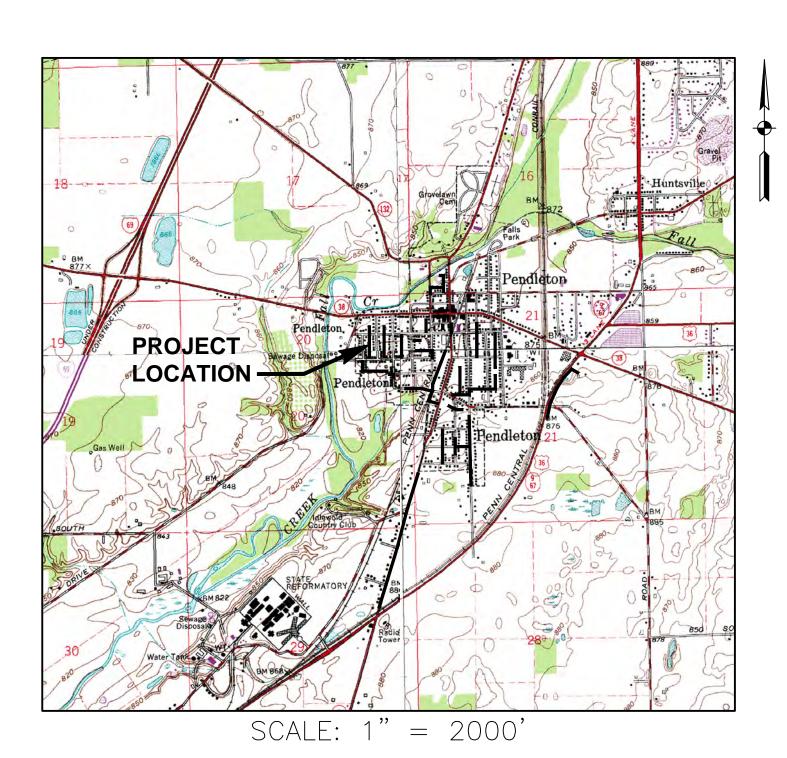
GENERAL MANAGERATTORNEY

STEVE UNGER - AT

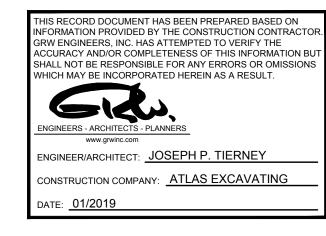


## www.grwinc.com

This document, originally issued, sealed, and signed by Joseph P. Tierney, Indiana Professional Engineer, No. 19300407, on November 2017, shall not be used in lieu of a certified document.



PLAN SET IS FULL SCALE ON 24"X36" AND HALF SCALE ON 12"X18"



SRF NO. WW16074803 GRW PROJECT NO. 4447-24



VD-2015\Working Drawings\AutoCAD\REHABILITATION PHASE

MARCH 2017

#### **GENERAL NOTES:**

- THE FOLLOWING GENERAL NOTES ARE APPLICABLE TO THE ENTIRE SET OF PLANS, AND ARE NOT SHOWN ON EACH INDIVIDUAL SHEET. HOWEVER, THIS DOES TO RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO PROVIDE THESE ITEMS FOR ALL AREAS.
- 2. PROPERTY LINES AND RIGHTS-OF-WAY SHOWN ARE BASED ON DEED RESEARCH OF PUBLIC RECORDS. FIELD SURVEYING HAS NOT BEEN COMPLETED TO VERIFY EXACT LOCATIONS.
- ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO STREETS, DRIVES, WALKS, FENCES, LAWNS, ETC.
  SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THOSE PRIOR TO CONSTRUCTION.
- 4. BASELINE STATIONING IS ALONG THE CENTERLINE OF PROPOSED SEWER.
- 5. THE DISTRICT ASSUMES NO RESPONSIBILITY FOR THE LACK OF LOCATION OR MISSED LOCATION OF EXISTING UTILITIES.
- 6. THE CONTRACTOR SHOULD VERIFY THE EXISTING CONDITIONS TO HIS SATISFACTION PRIOR TO BEGINNING ANY EXCAVATION. INDIANA UNDERGROUND UTILITIES PROTECTION SERVICE SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK. INDIANA UNDERGROUND UTILITIES PROTECTION SERVICE TELEPHONE IS 811.
- 7. ALL SIZES AND LOCATIONS OF EXISTING UTILITIES ARE BASED ON BEST INFORMATION AVAILABLE. HOWEVER, THE ENGINEER DOES NOT GUARANTEE OR ASSURE THAT SUCH INFORMATION IS TRUE OR APPROXIMATE. THE CONTRACTOR SHALL DETERMINE WHICH UTILITIES MAY CONFLICT WITH HIS WORK AND VERIFY THEIR LOCATIONS, SIZES, AND INVERTS, ETC. ADJUST HIS WORK ACCORDINGLY, AND NOTIFY THE ENGINEER OF ANY SUCH CONFLICT. THE CONTRACTOR SHALL REFER TO SPECIFICATIONS RELATIVE TO THE ABOVE.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING, ADJUSTING, AND/OR HOLDING ANY UTILITY LINE AND/OR ASSOCIATED SERVICE POLE, OR DOWN GUY AT HIS OWN EXPENSE. HE SHALL ALSO BE RESPONSIBLE TO CONTACT ANY UTILITY OWNER AS NECESSARY TO RESOLVE ALL UTILITY CONFLICTS INCURRED DURING THE COMPLETION OF HIS CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL USE CAUTION DURING THEIR WORK SO AS TO NOT DAMAGE EXISTING UTILITIES, ETC.
  CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITIES DAMAGED AS A RESULT
  OF CONTRACTOR'S CONSTRUCTION OPERATIONS AND PRACTICES.
- 10. CONNECTIONS OF ROOF DRAINS, FOUNDATION DRAINS AND ANY OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
- 11. LIMITS OF CONSTRUCTION SHALL BE MAINTAINED WITHIN PERMANENT, TEMPORARY EASEMENTS, AND RIGHT OF WAY AS SHOWN ON PLANS.
- 12. ALL INFORMATION REGARDING HORIZONTAL AND VERTICAL LOCATIONS OF THE EXISTING SEWERSTOP OF CASTING AND SLOPES ARE BASED ON THE BEST INFORMATION AVAILABLE. THE ENGINEER DOES NOT GUARANTEE OR ASSURE THAT SUCH INFORMATION IS TRUE OR ACCURATE. THE CONTRACTOR SHALL FIELD VERIFY THOSE ELEVATIONS, ETC. AND ADJUST HIS WORK ACCORDINGLY TO MAINTAIN POSITIVE DOWN HILL SLOPE ON THE NEW SEWERS TO AT LEAST MATCH THE EXISTING SLOPE RELATIVE TO THE VERIFIED ELEVATIONS, AND NOTIFY THE ENGINEER OF ANY SUCH CHANGE FOR APPROVAL.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL. TRAFFIC CONTROL SHALL CONFORM TO APPLICABLE LOCAL/STATE STANDARDS.
- 14. CONTRACTOR SHALL NOTIFY THE TOWN OF PENDLETON AND RESIDENTS 48 HOURS PRIOR TO TEMPORARILY CLOSING STREETS OR PRIVATE DRIVEWAYS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AFFECTED UTILITIES, TRASH PICK-UP SERVICES, SCHOOL DISTRICT, AND EMERGENCY & LAW ENFORCEMENT AUTHORITIES REGARDING SAID CLOSURES. AFFECTED PRIVATE DRIVEWAYS SHALL NOT BE SHUT DOWN LONGER THAN 8 HOURS. TRAFFIC SHALL BE BARRICADED FROM DRIVEWAY OR DRIVEWAY SHALL BE STEEL PLATE SPANNED TO MINIMIZE CLOSURES.
- 15. CONTRACTOR SHALL REMOVE AND REPLACE ALL DRIVEWAY CULVERTS AFFECTED BY CONSTRUCTION WITH NEW DRIVEWAY CULVERT PIPING OF IN-KIND MATERIALS PER TOWN OF PENDLETON STANDARDS. CONTRACTOR SHALL ALSO PROVIDE TOWN APPROVED END SECTIONS ON EACH REPLACED CULVERT. THE CONTRACTOR SHALL OBTAIN THE ACTUAL INVERT ELEVATIONS OF EACH CULVERT TO BE REMOVED AND SUPPLY ELEVATIONS TO THE R.P.R. THE CONTRACTOR SHALL THEN PLACE THE NEW DRIVEWAY CULVERT AS CLOSE AS POSSIBLE TO THE FORMER INVERT ELEVATIONS AND PROVIDE POSITIVE DRAINAGE OF THE RECONSTRUCTED DITCH LINE.
- 16. CONTRACTOR SHALL CLEAN STREETS OF CONSTRUCTION DEBRIS DAILY TO THE SATISFACTION OF THE OWNER AND ENGINEER. CONTRACTOR SHALL FURTHER ENSURE THAT AT LEAST ONE LANE OF TRAFFIC IS OPEN AT ALL TIMES DURING CONSTRUCTION ALONG ROADWAYS UNLESS THE CONTRACTOR HAS WRITTEN APPROVAL AND AN APPROVED TRAFFIC MAINTENANCE PLAN FROM THE TOWN.
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING SANITARY FLOW AND PROVIDING BYPASS PUMPING AND/OR SUPPLEMENTAL STORAGE AS REQUIRED DURING CONSTRUCTION OPERATIONS. SUCH FLOW SHALL BE MONITORED SO AS NOT TO ALLOW SEWAGE BACK-UP WHICH MAY CAUSE PROPERTY DAMAGE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGE INCURRED AND MUST MAKE RESTITUTION WITH ANY AFFECTED PROPERTY OWNER(S). CONTRACTOR SHALL PROVIDE CONTINUOUS ON-SITE SUPERVISION OF ANY BYPASS PUMPING OPERATIONS THAT OCCUR DURING CONSTRUCTION & NON-CONSTRUCTION HOURS. PROPOSED BYPASS SYSTEM SHALL INCLUDE EMERGENCY STANDBY/BACK-UP PROVISIONS AND SHALL BE APPROVED BY THE OWNER AT LEAST TWO (2) FULL WORKING DAYS IN ADVANCE OF INITIATING ANY BYPASS OPERATIONS. CONTRACTOR SHALL COORDINATE BYPASS PUMPING EFFORTS WITH FALL CREEK REGIONAL WASTE DISTRICT.
- 18. THE GRAVITY SEWER PIPE LENGTHS SHOWN ON THE DRAWING ARE MEASURED FROM CENTER OF MANHOLE TO CENTER OF CONSECUTIVE MANHOLES.
- 19. ALL WORK SHALL CONFORM TO THE FALL CREEK WASTE DISTRICT STANDARDS FOR DESIGN AND CONSTRUCTION OF SANITARY SEWERS UNLESS OTHERWISE NOTED.

#### PROPOSED SANITARY LATERALS:

DIST.) A - EXISTING LATERAL TO BE ABANDONED

DIST. B - CONNECT LATERAL TO EXISTING OR REHABBED SEWER MAIN

DIST. C - DIG UP AND CAP/PLUG CONNECTION TO EXISTING SEWER MAIN

- EXISTING PIPE TO BE ABANDONED IN PLACE

#### **EXISTING LEGEND**

EXISTING LEG	SEIND		
lacktriangle	EXISTING BENCHMARK	(GS)	EXISTING GAS STOP
<b>#</b>	EXISTING CATCH BASIN	$\bowtie$	EXISTING GAS VALVE
С	EXISTING CABLE BOX	—	EXISTING GUY WIRE
	EXISTING CONTROL POINT	$\bigoplus$	EXISTING GRAVE STONE
$\odot$	EXISTING DECIDUOUS TREE	<del>\</del>	EXISTING LIGHT POLE
E	EXISTING ELECTRICAL BOX	M	EXISTING MAILBOX
EM	EXISTING ELECTRIC METER	T	EXISTING TELEPHONE MANHOLE
ET	EXISTING ELECTRIC TRANSFORMER		EXISTING PKNAIL FOUND
X	EXISTING FIRE HYDRANT		EXISTING PINE TREE
	EXISTING FLAG POLE	Ø	EXISTING POWER POLE
回	EXISTING FIBER OPTIC BOX	•	EXISTING SIGN
GM	EXISTING GAS METER	$\odot$	EXISTING SHRUB
©	EXISTING GAS MARKER		EXISTING TEMP BENCHMARK
$\Diamond$	EXISTING GAS PRESSURE VALVE	T	EXISTING TELEPHONE BOX
	ROAD @	$\bigcirc$	EXISTING TELEPHONE MARKER
	EXISTING DITCH	Ø	EXISTING TRAFFIC POLE
E	EXISTING POWER/ELECTRIC	$\bigcirc$	EXISTING VALVE VAULT
x	EXISTING FENCE	M	EXISTING WATER METER
G	EXISTING NATURAL GAS	$\bowtie$	EXISTING WATER VALVE
	EXISTING GUARDRAIL	MH	EXISTING MANHOLE
	EXISTING GRADE (PROFILE)	E	EXISTING ELECTRIC MANHOLE
	EXISTING PROPERTY LINE	FD	EXISTING FIBER OPTIC MANHOLE
++++++	EXISTING RAILROAD	(22)	EXISTING SANITARY MANHOLE
ctv	EXISTING CABLE TV	MZ	EXISTING STEAM MANHOLE
—— T ——	EXISTING TELEPHONE LINE	(2)	EXISTING STORM MANHOLE
F0	EXISTING FIBER OPTIC LINE	DI	DUCTILE IRON
W	EXISTING WATER MAIN	RJDI	RESTRAINED JOINT DUCTILE IRON
	EXISTING WATER'S EDGE	B-##●	SOIL BORING
R/W	EXISTING RIGHT-OF-WAY		
22	EXISTING SANITARY SEWER		
SL	EXISTING SANITARY SEWER LATERA	L	
=======================================	EXISTING STORM SEWER		

PROPOSED LEGEND - SEE PLAN AND PROFILE SHEETS

MATT STRINGER

CRAIG SWITZER



Indiana Underground Plant Protection Service

CALL TWO WORKING DAYS BEFORE YOU DIG IT'S THE LAW 811

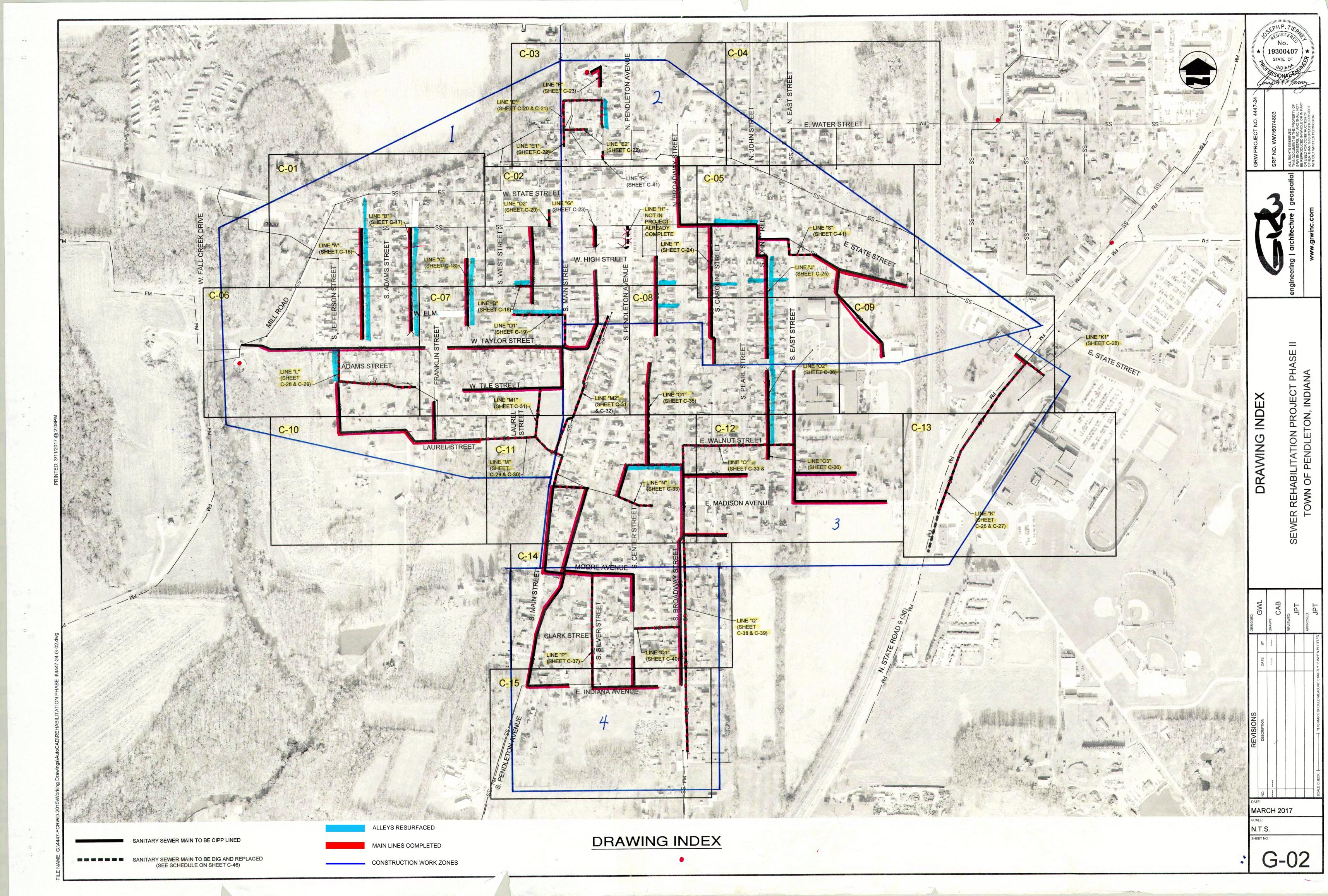
	UTIL	ITIES			
DESCRIPTION					
WATER, PUBLIC WORKS AND STREETS PENDLETON UTILITIES 100 WEST STATE STREET PENDLETON, IN 46064 765-208-0094 DONNIE MEYER 765-208-0093 JEFF BARGER	GAS VECTREN ENERGY 2001 REV. J.T. MENIFEE STREET ANDERSON, IN 46016 765-620-0747 BRIAN HARGER	PHONE FRONTIER 19845 NORTH U.S. 31 WESTFIELD, IN 46074 317-896-6005 STEVE COSTLOW	SEWER FALL CREEK REGIONAL WASTE DISTRICT 9378 S. COUNTY ROAD 650 WEST PENDLETON, IN 46064 765-778-7544 TIM MCCURDY		
ELECTRIC PENDLETON UTILITIES 100 WEST STATE STREET PENDLETON, IN 46064 765-208-0104	CABLE COMCAST CABLEVISION 9750 E. 105TH STREET, STE. 1600 NOBLESVILLE, IN, 46060 317-774-3384	PHONE AT&T INDIANA 241 E. MARKET STREET HUNTINGTON, IN 46750 260-358-4507	FIBER OPTIC 9 STAR COMMUNICATIONS (317) 326-3131		

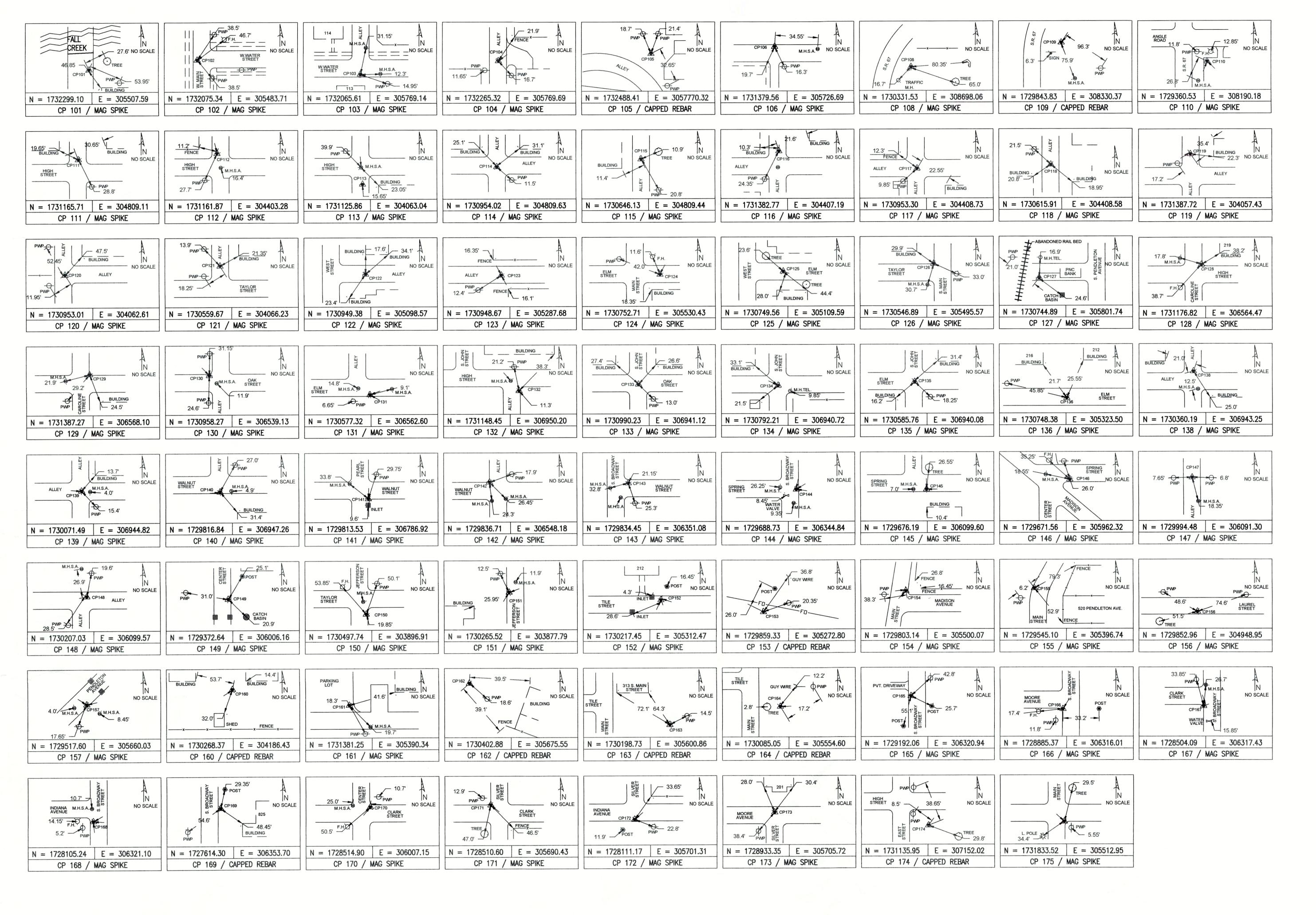
CHRIS CARTWRIGHT

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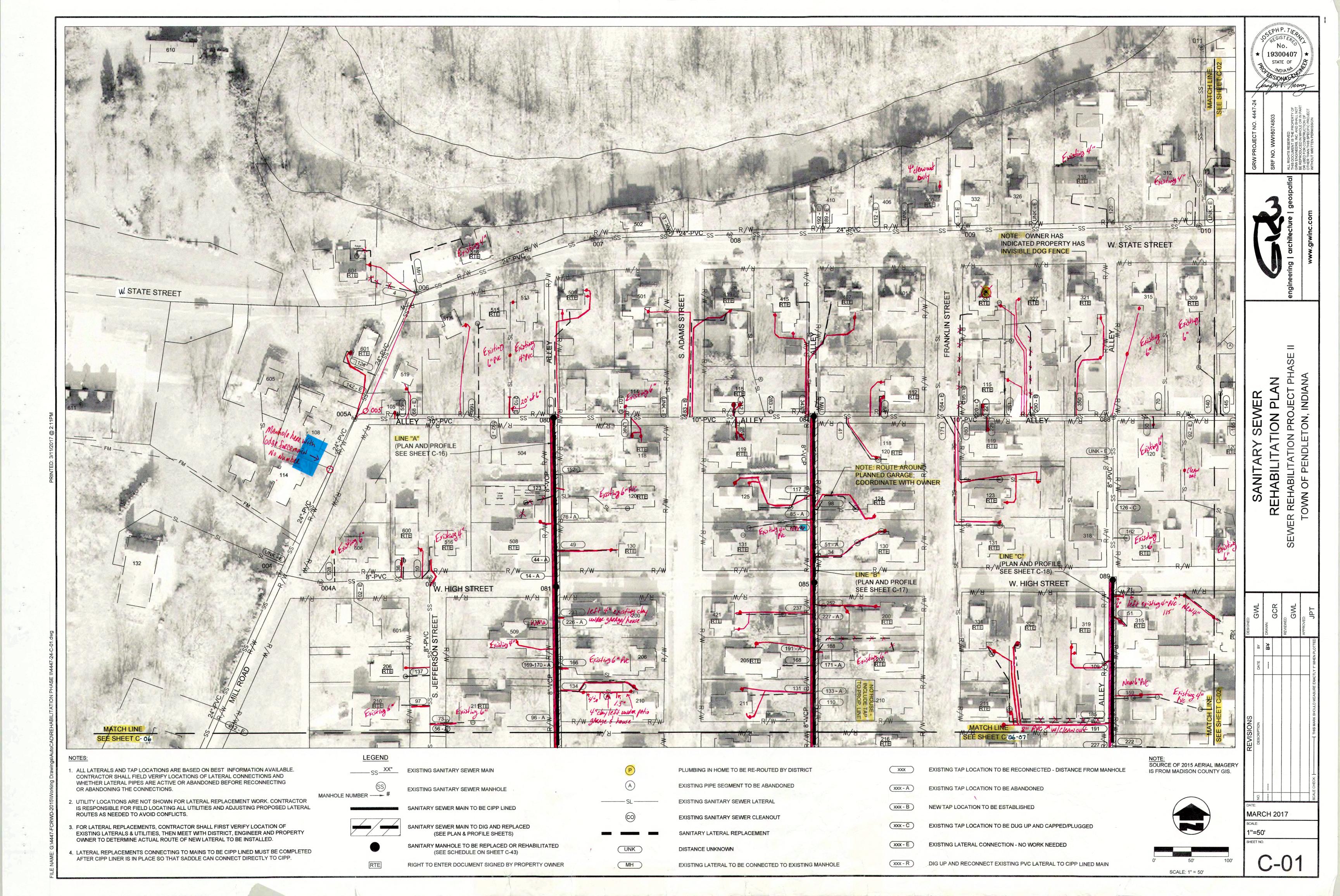


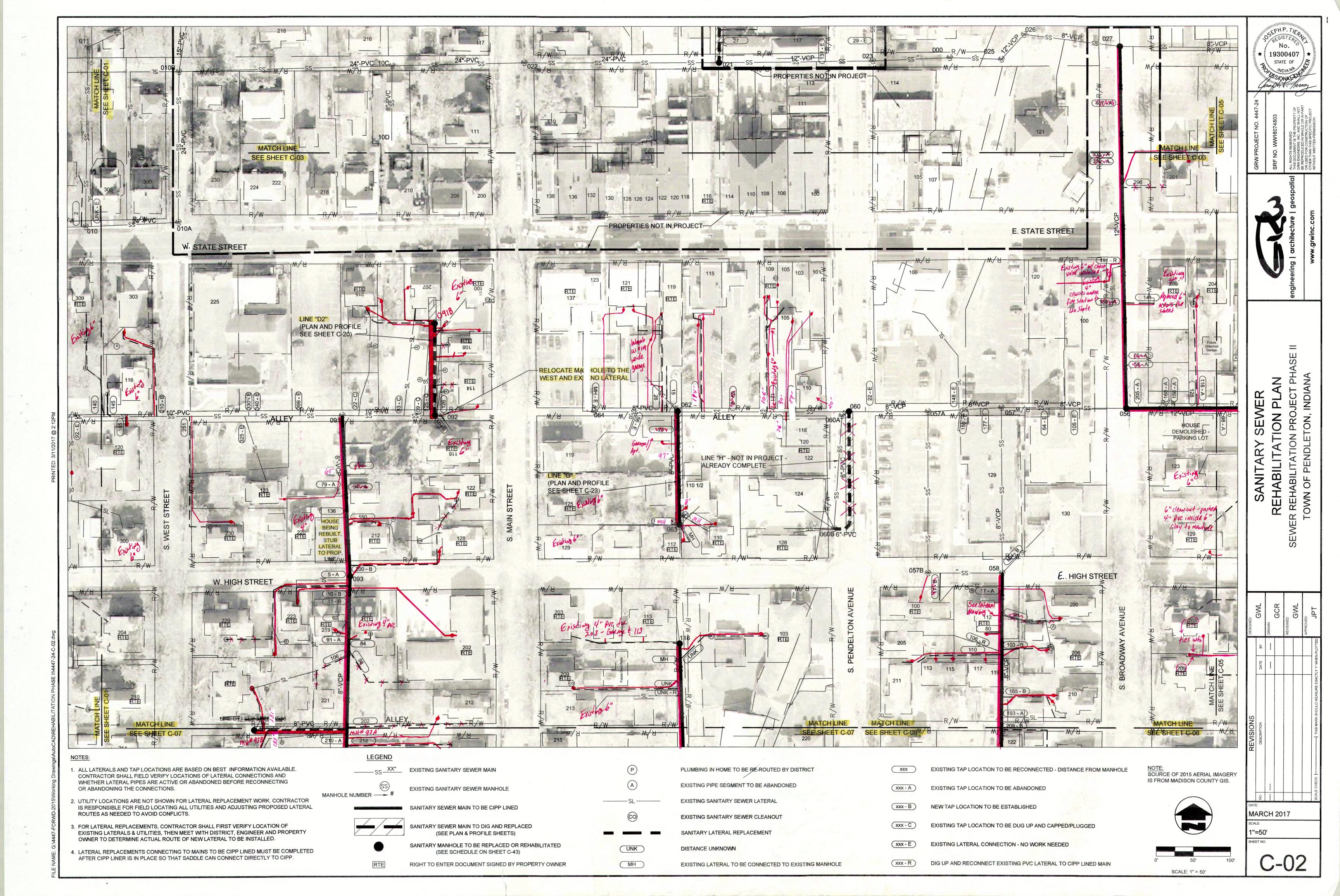
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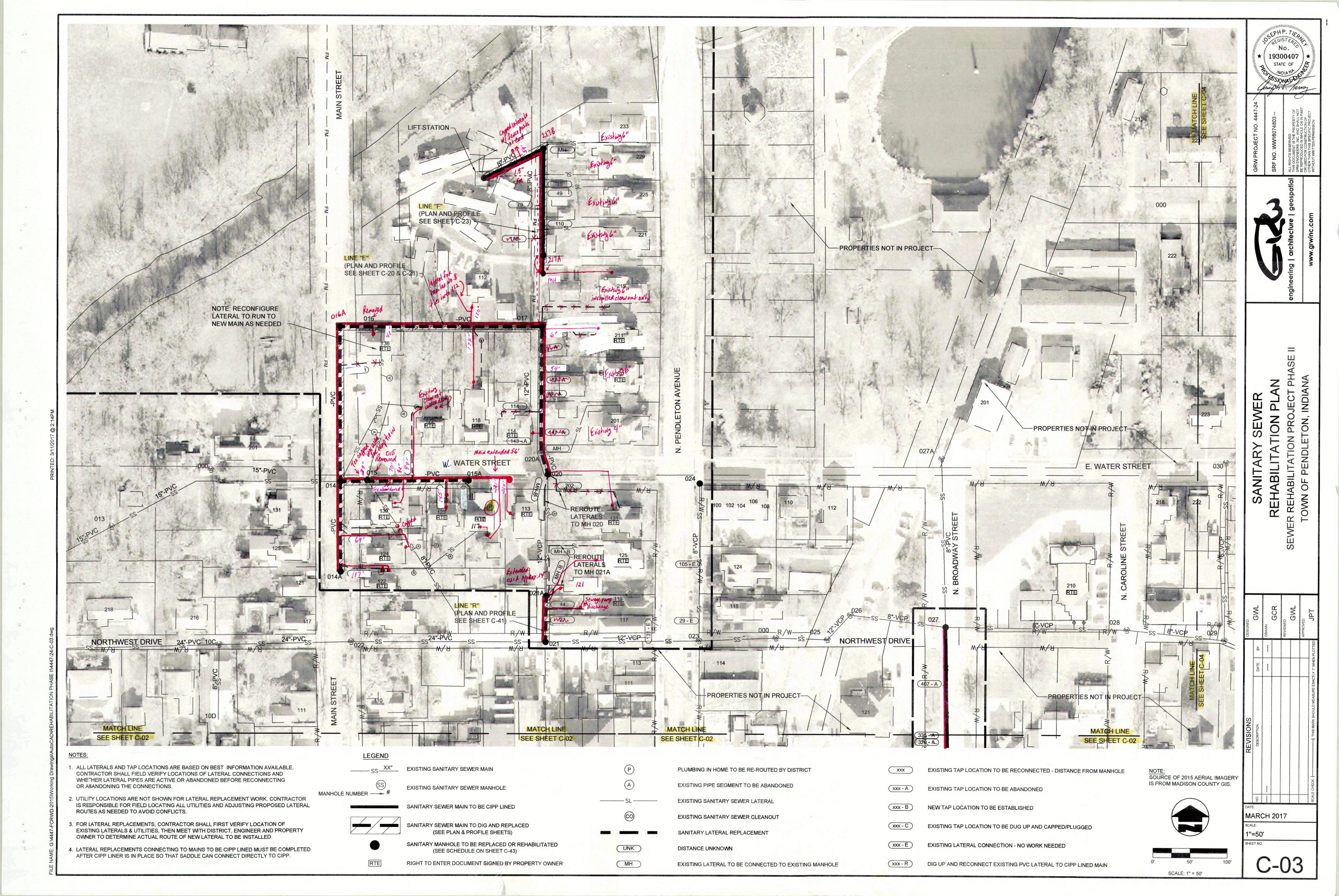
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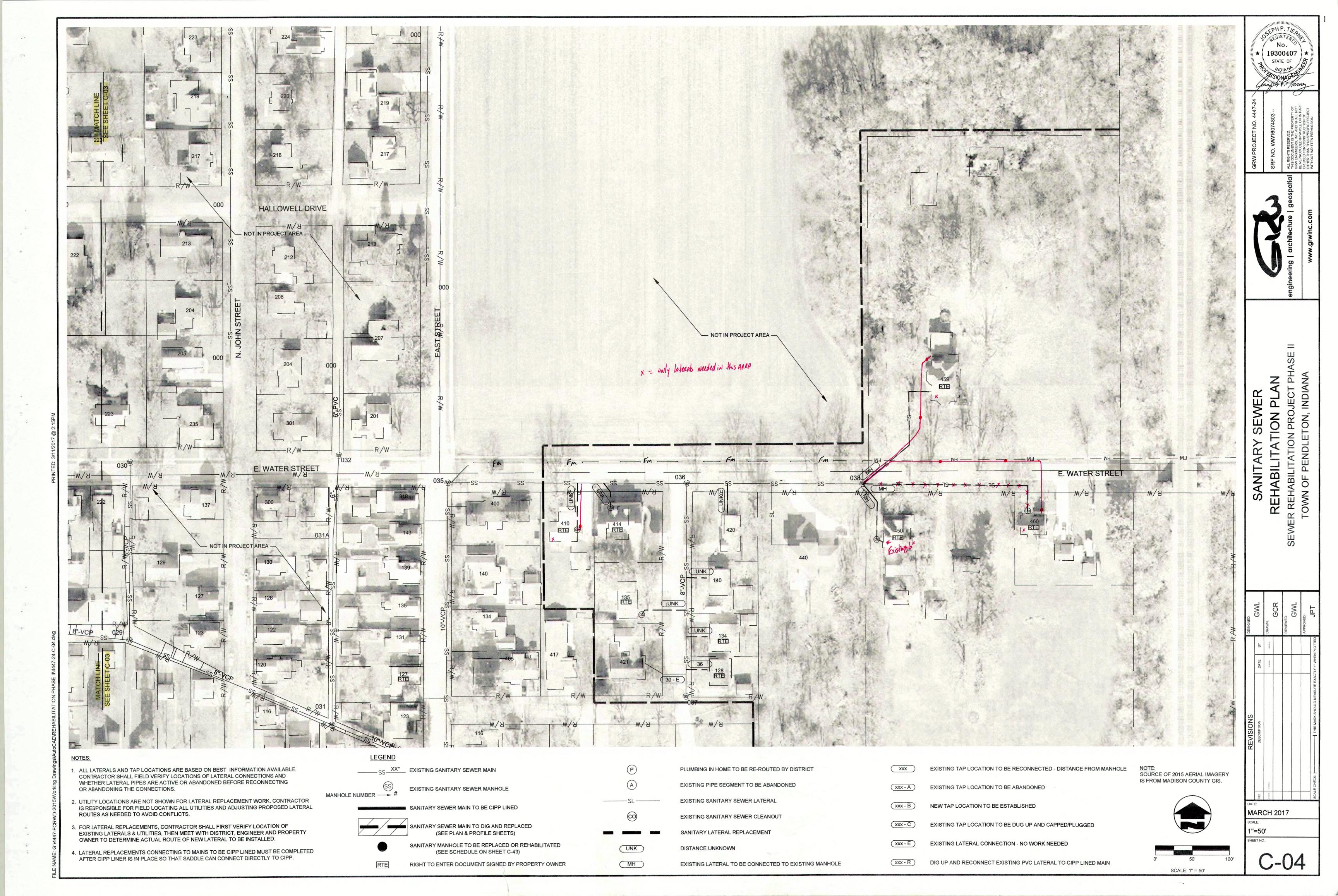
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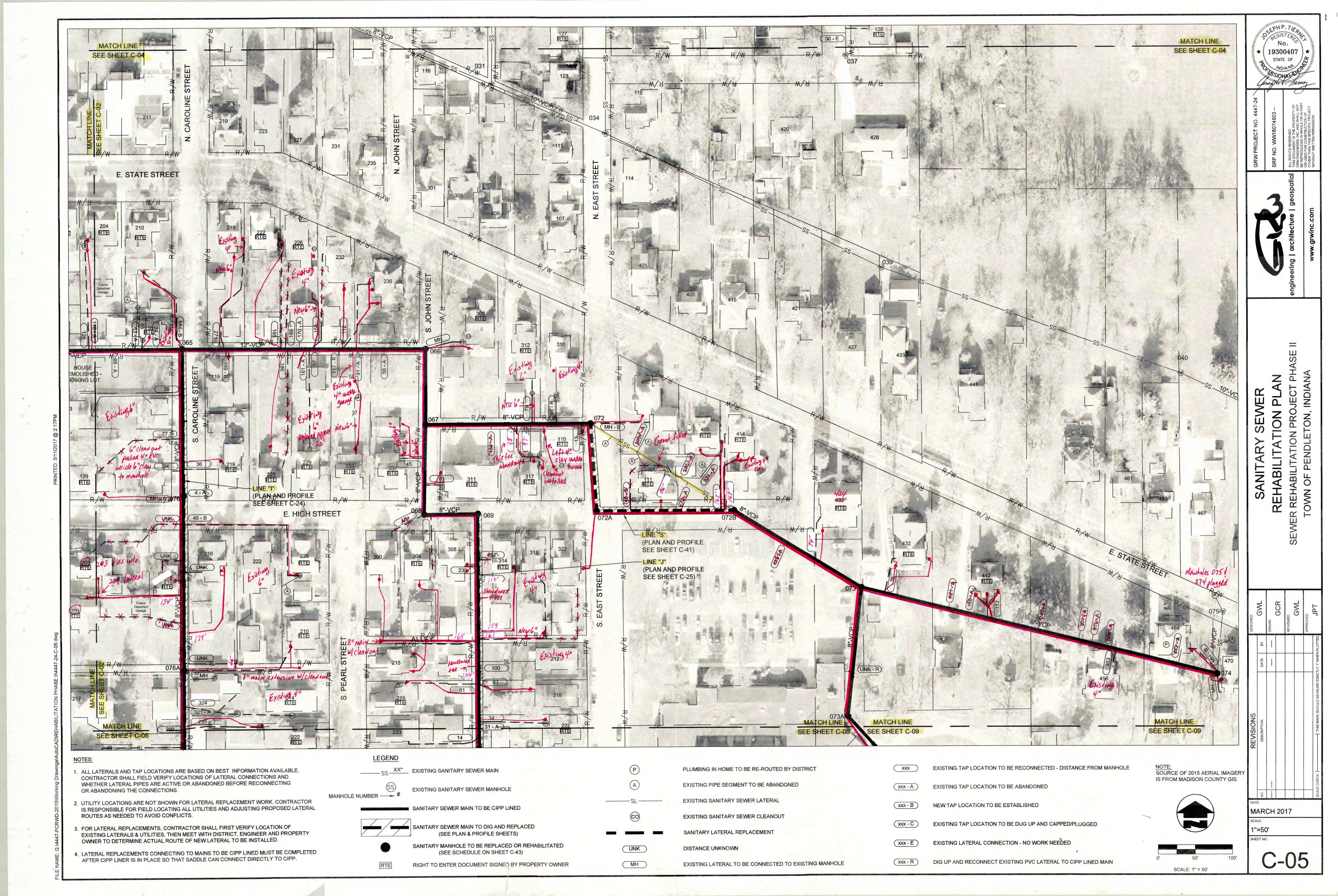
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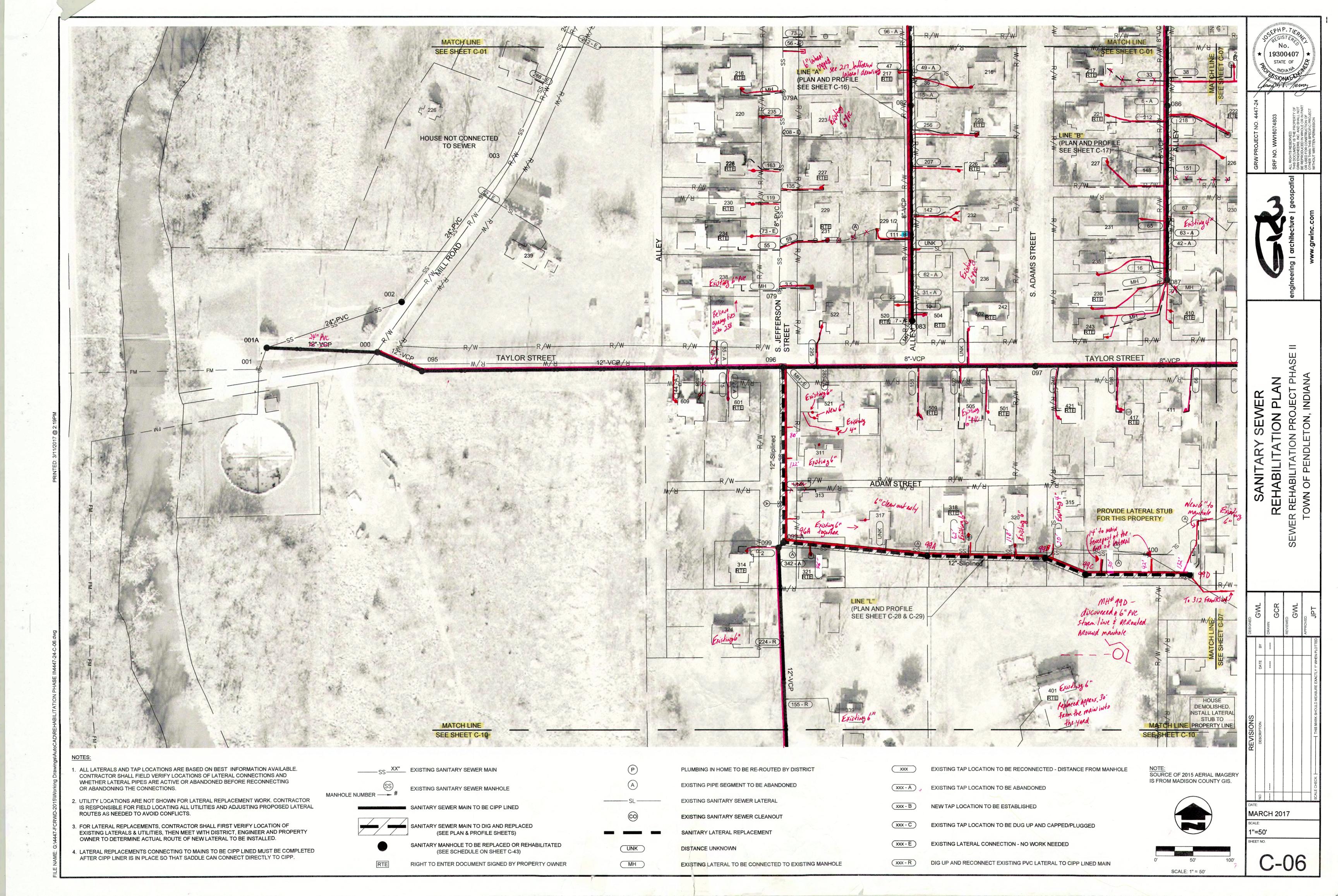


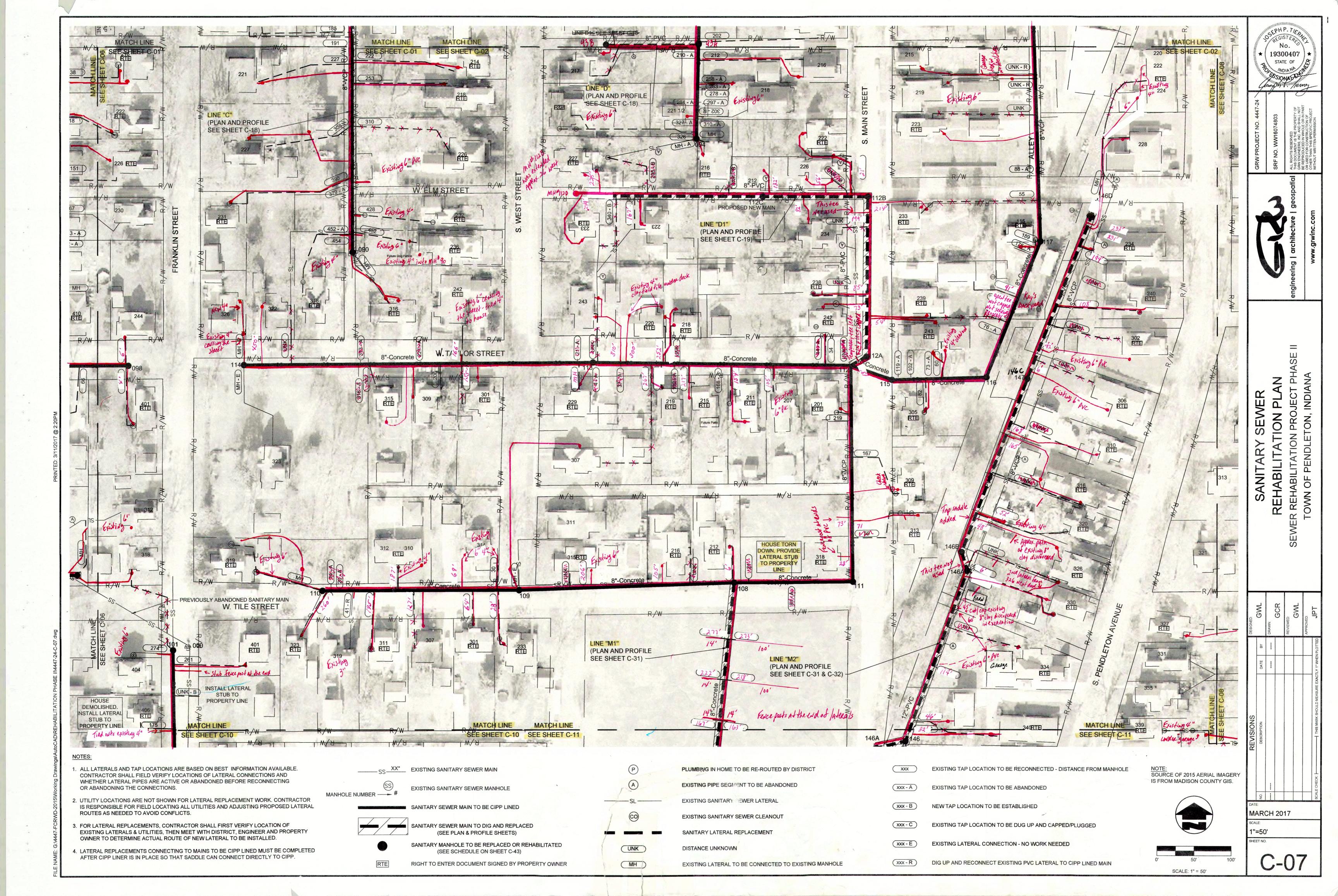


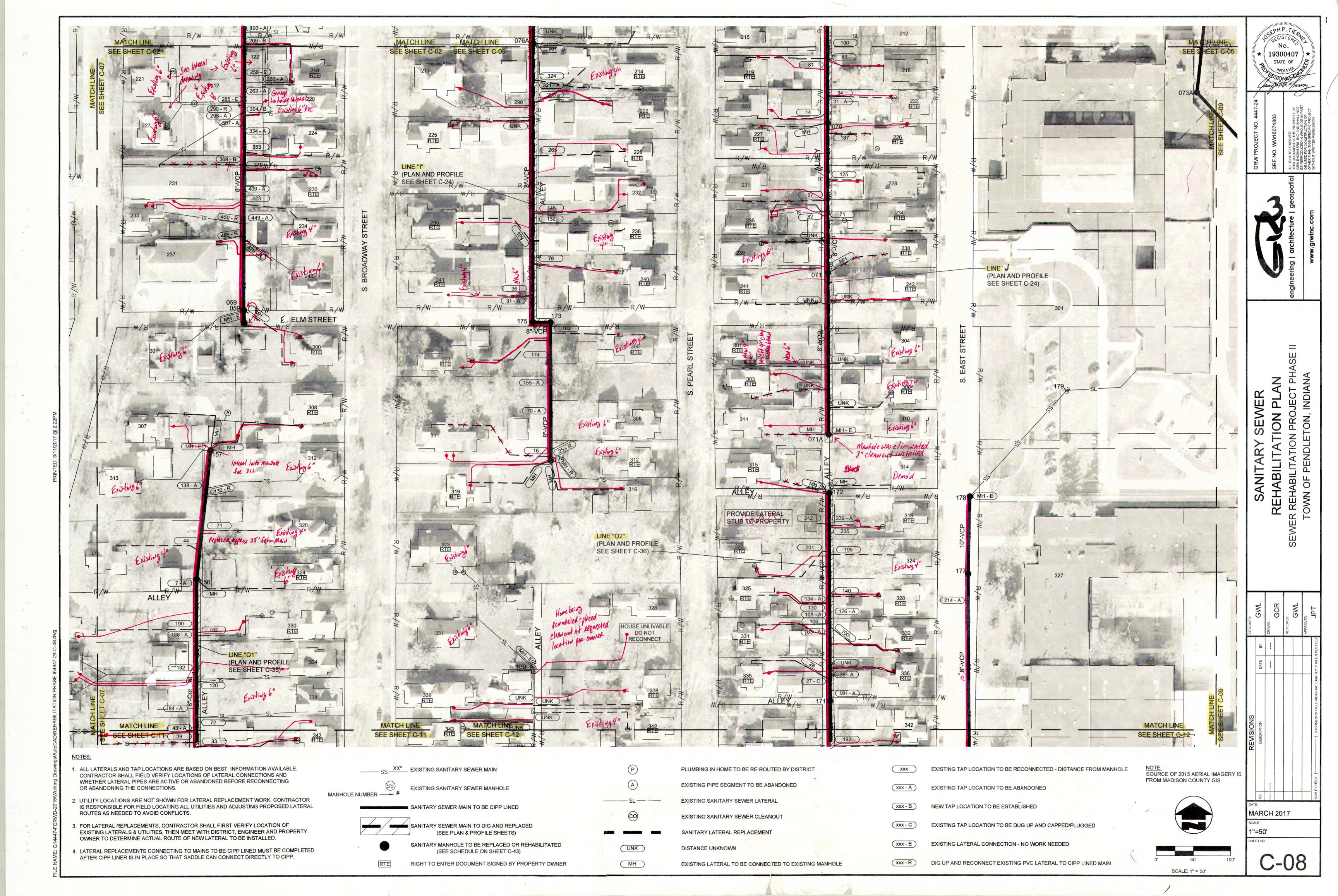


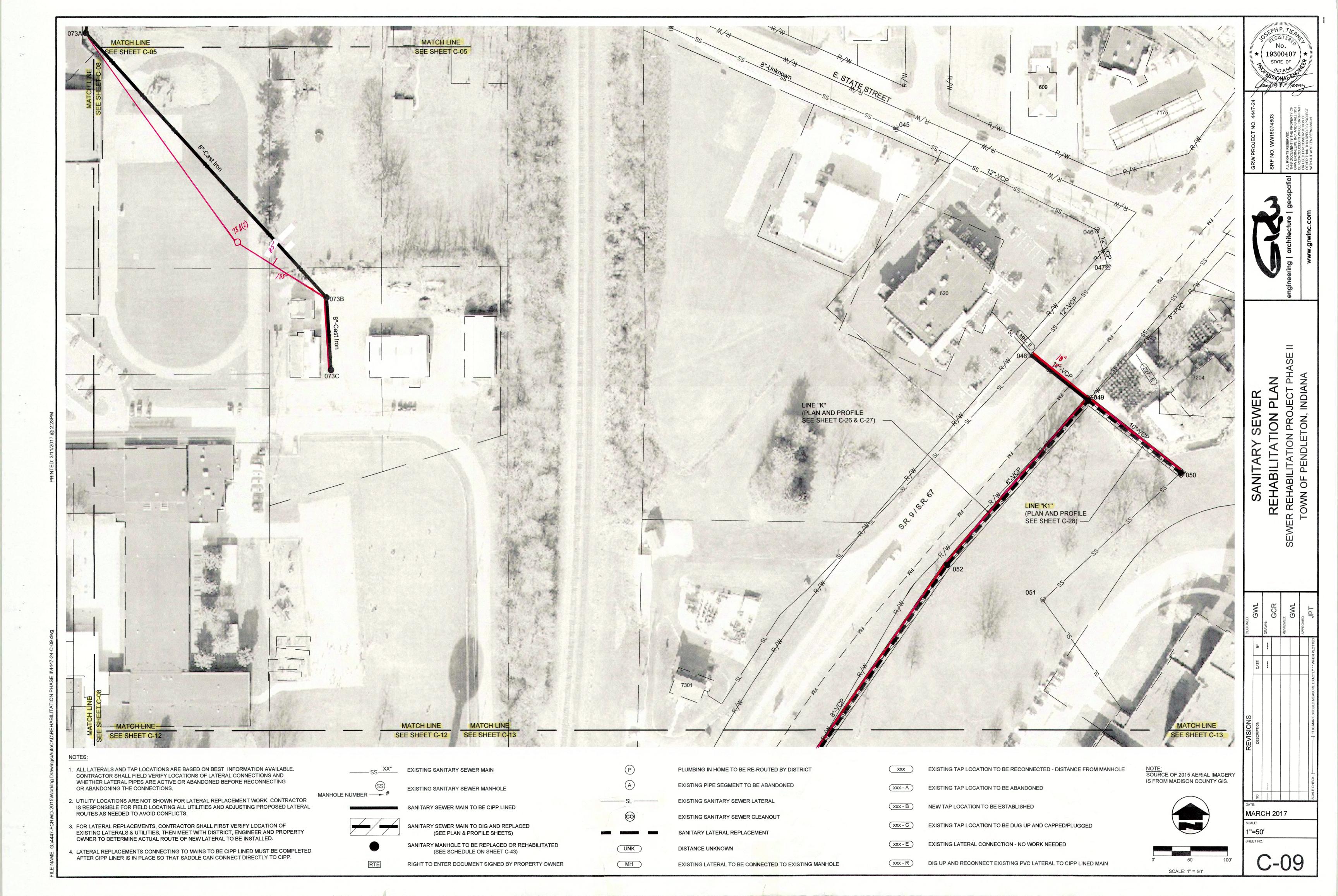


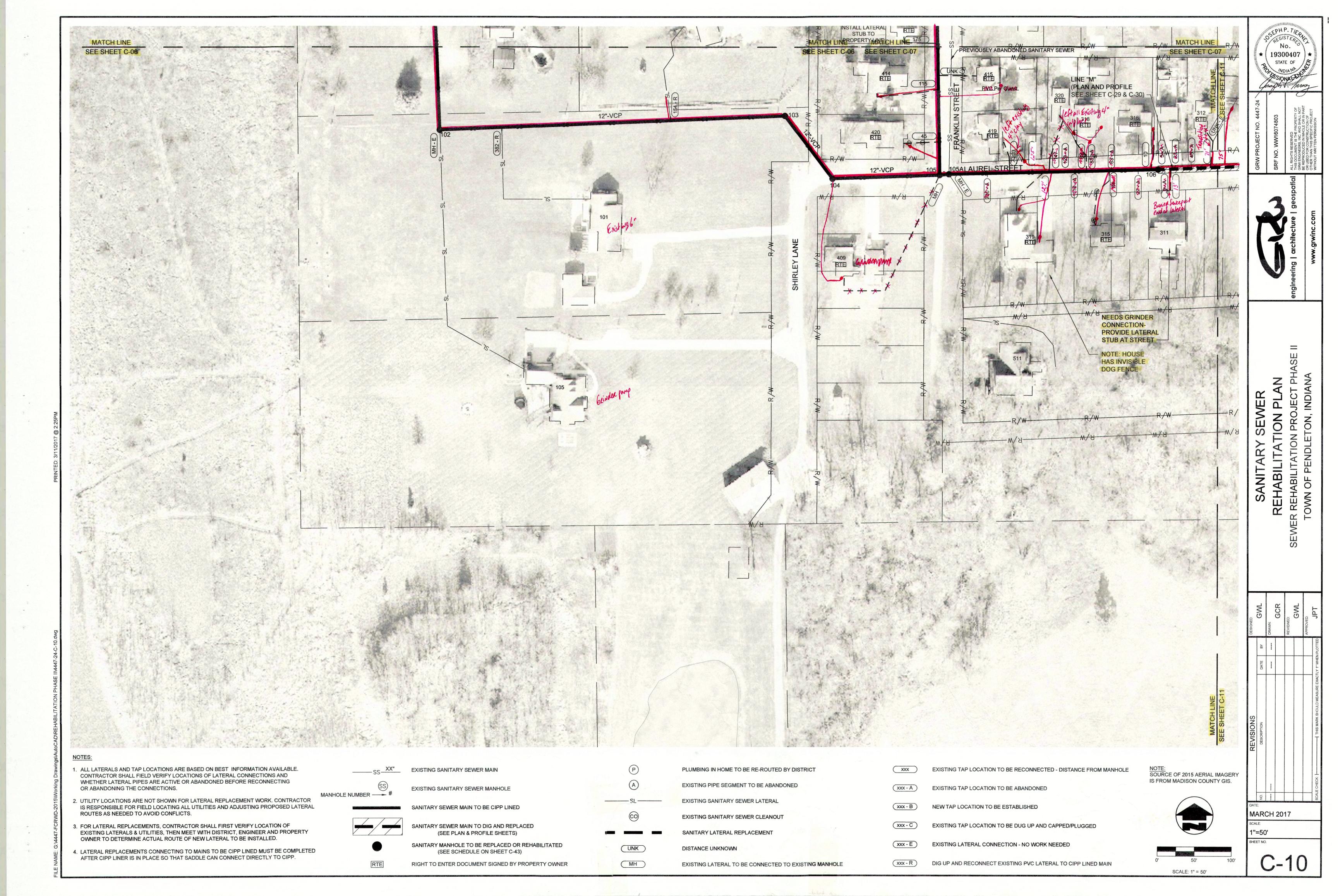


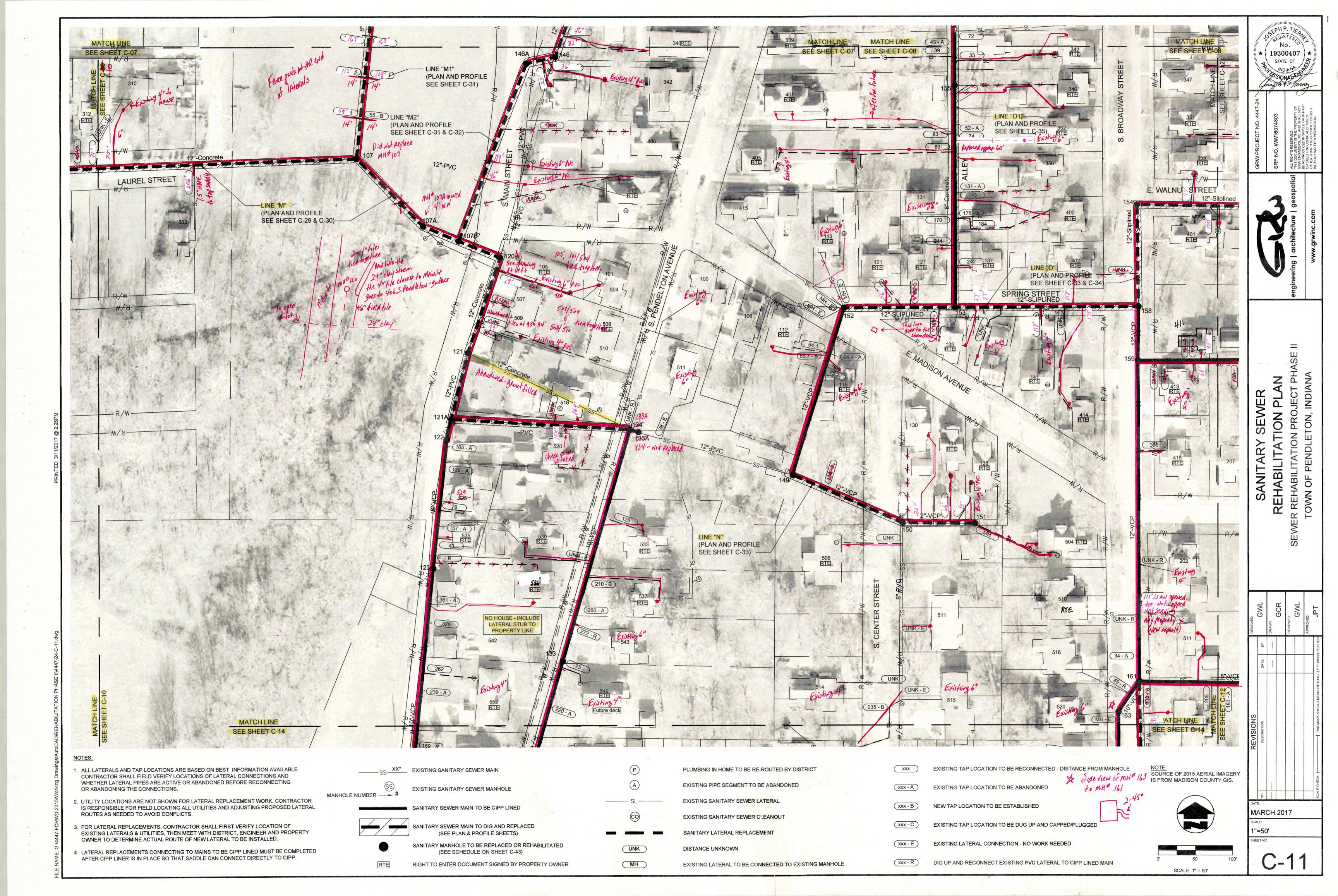


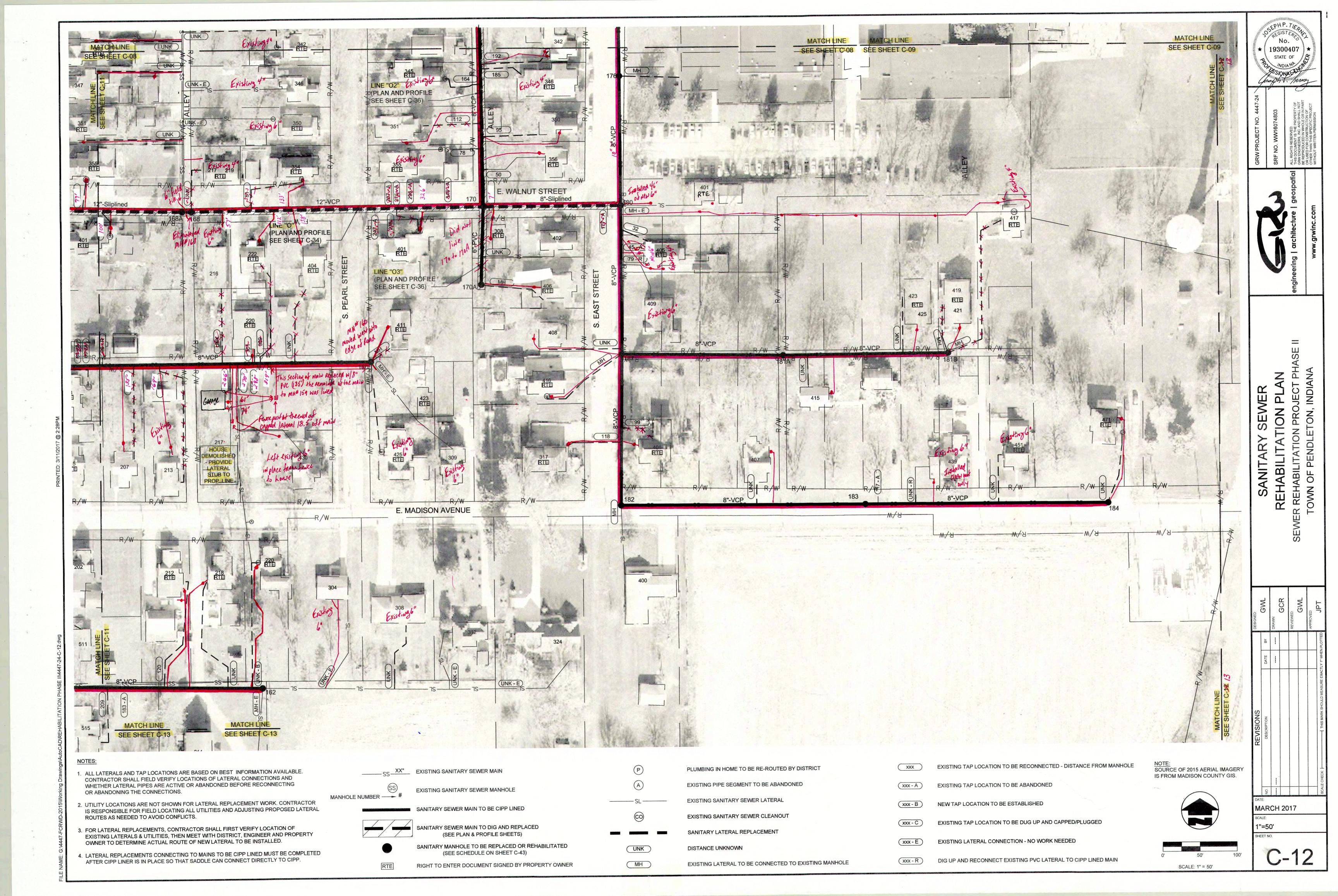


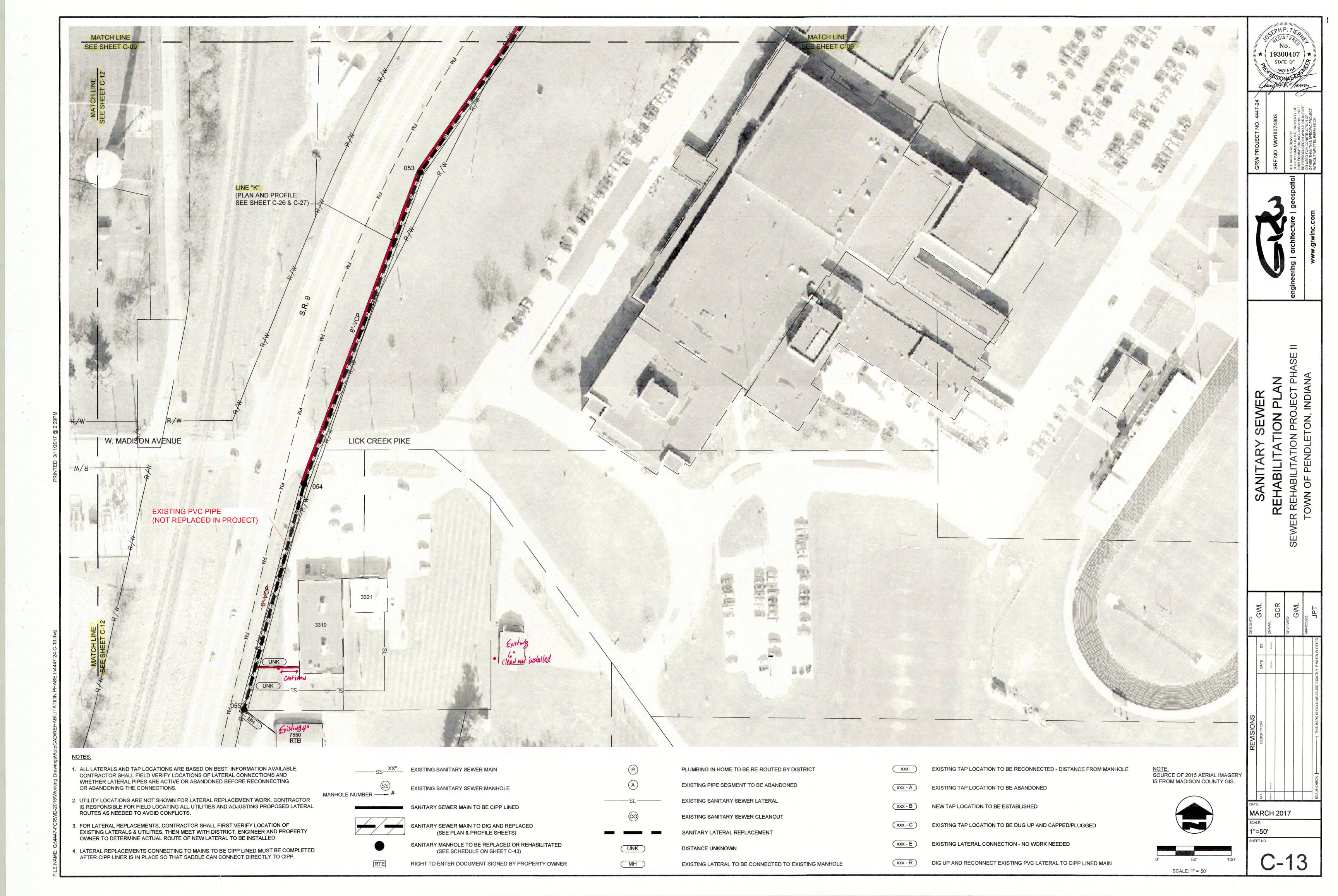


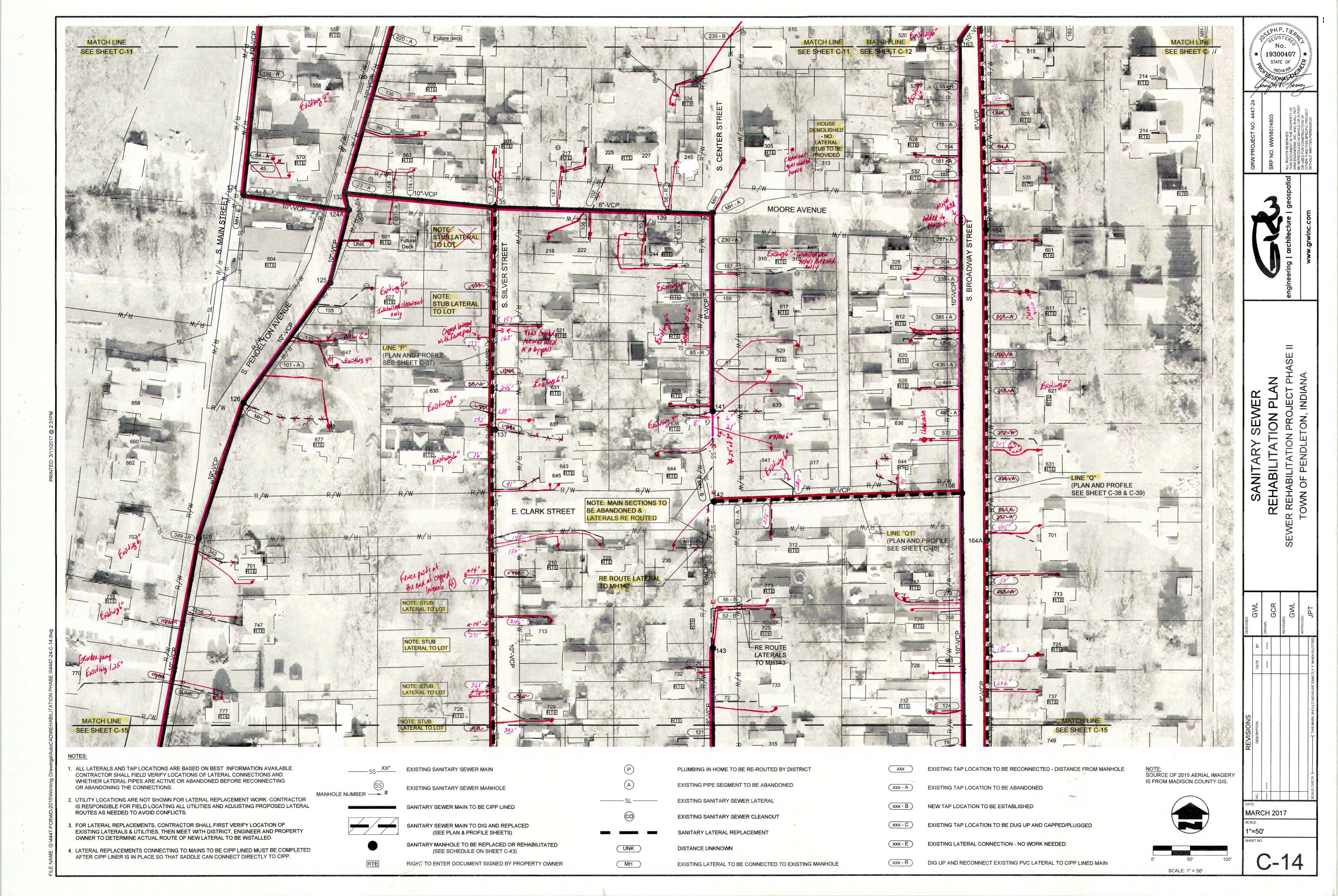


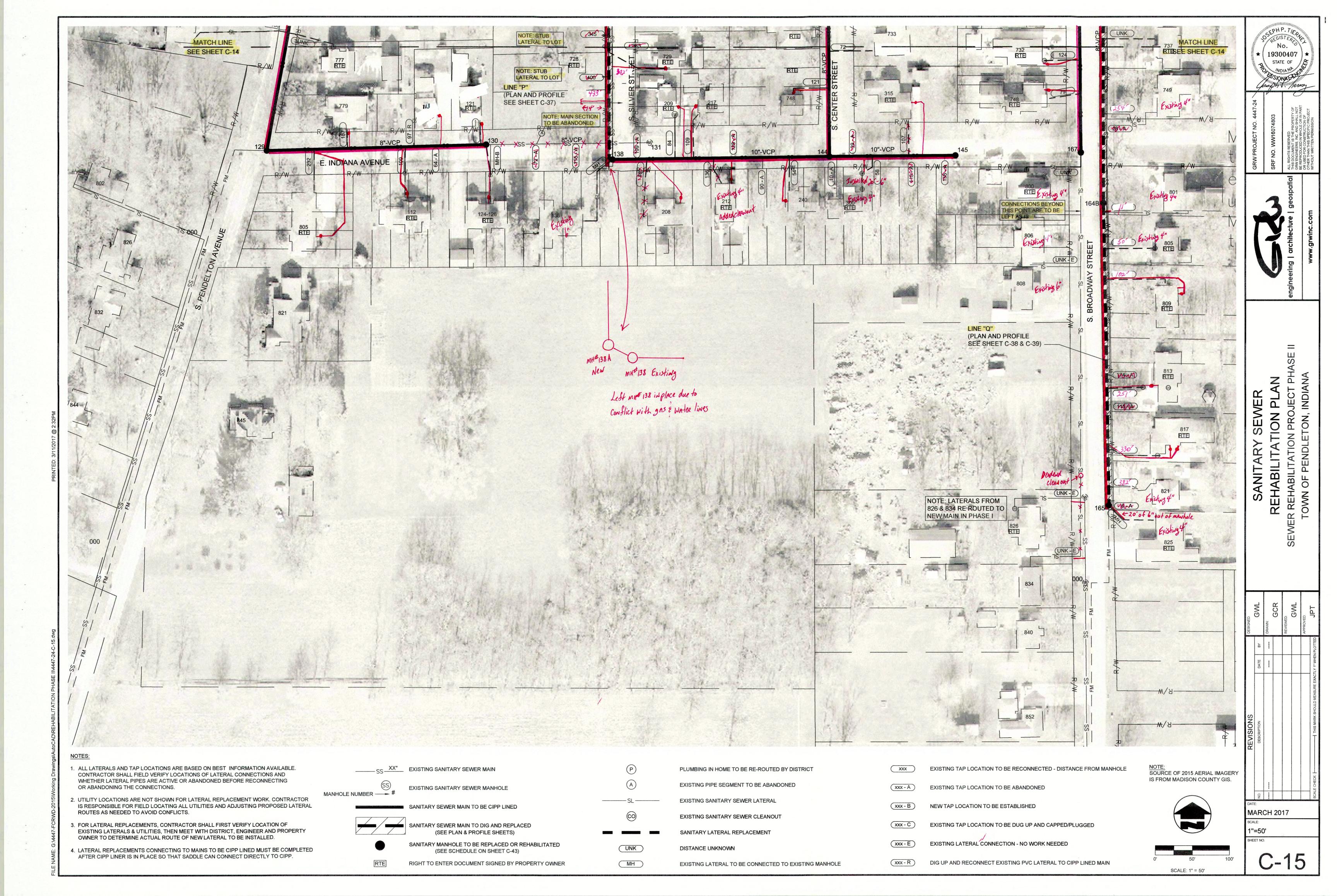


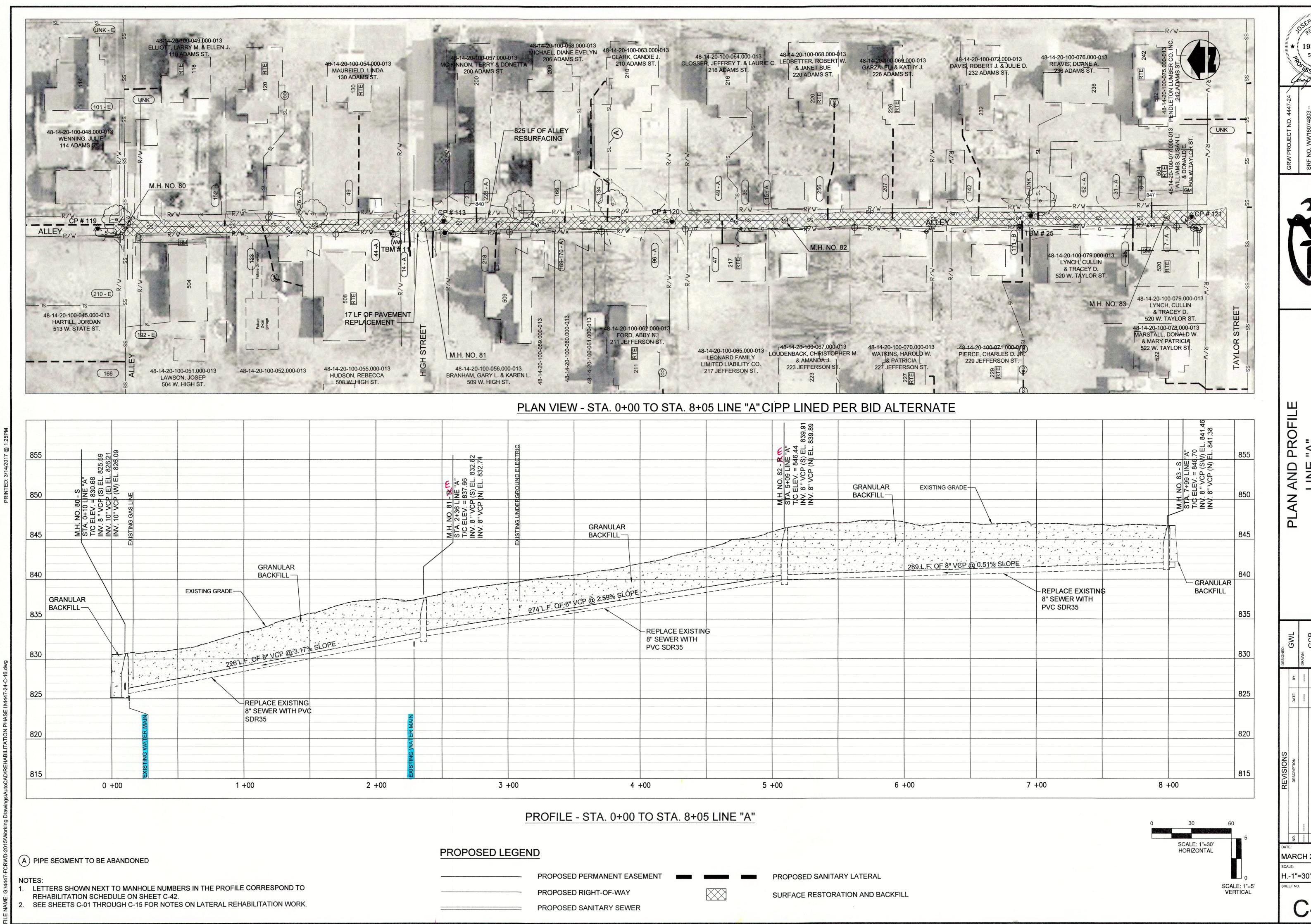








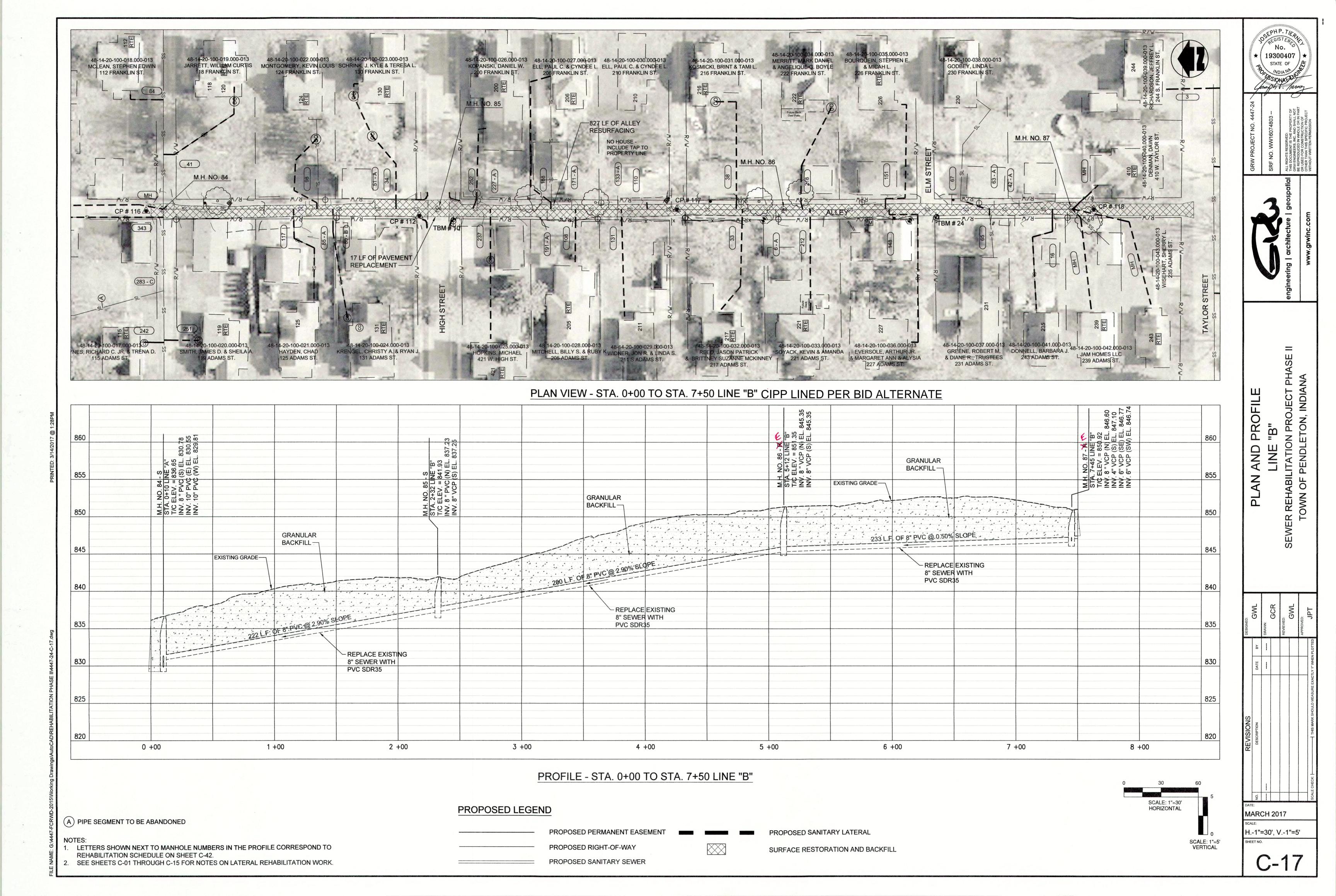


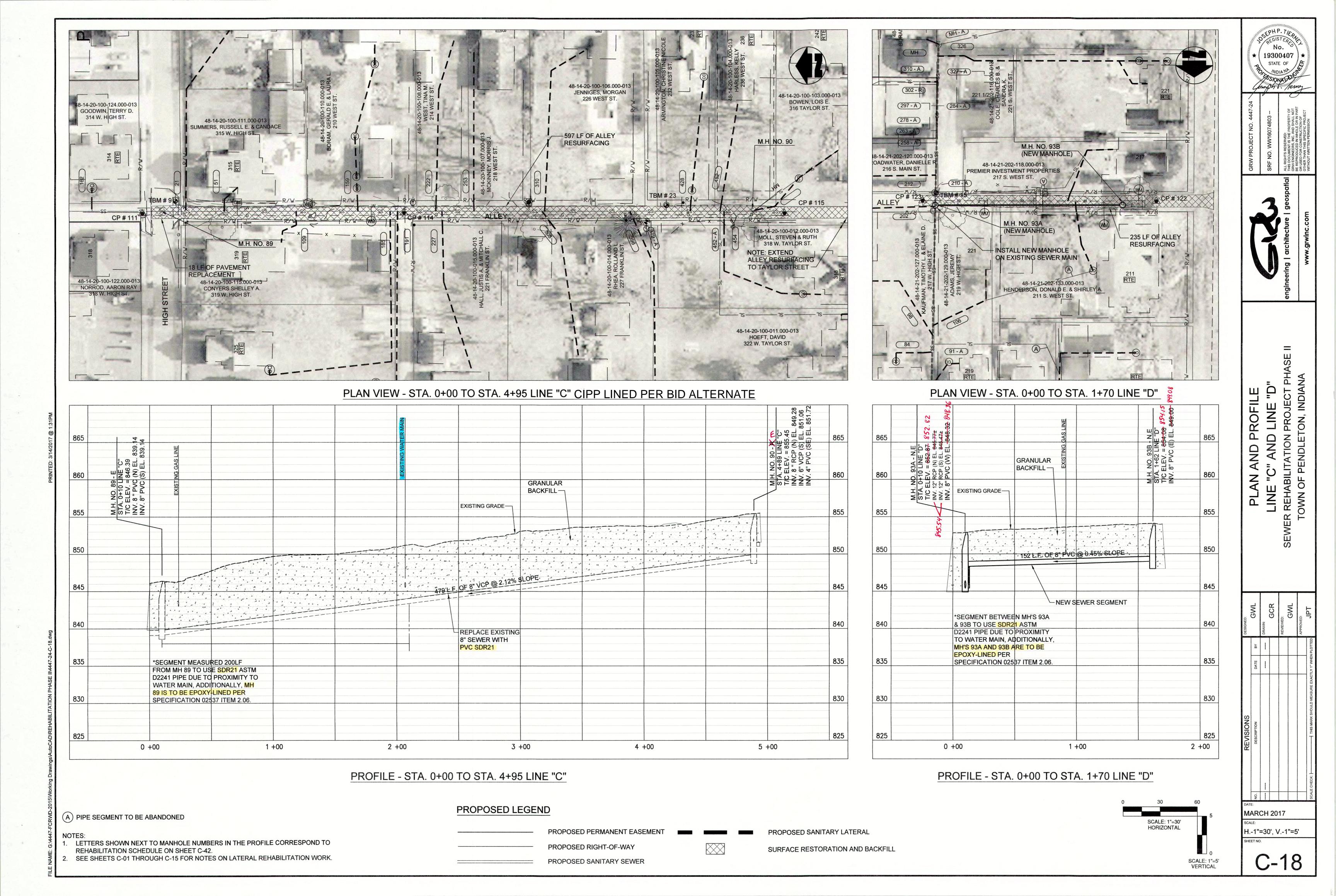


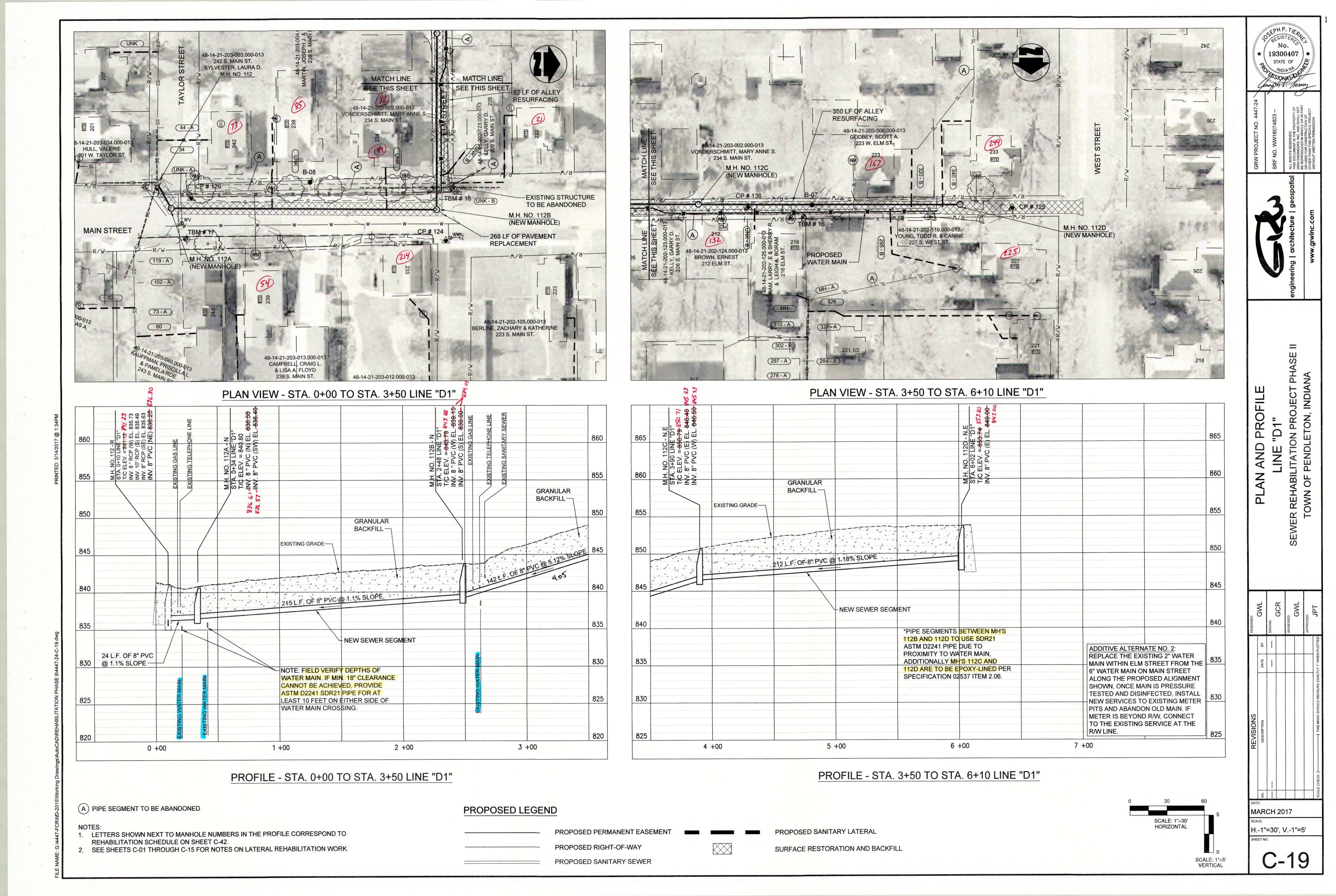
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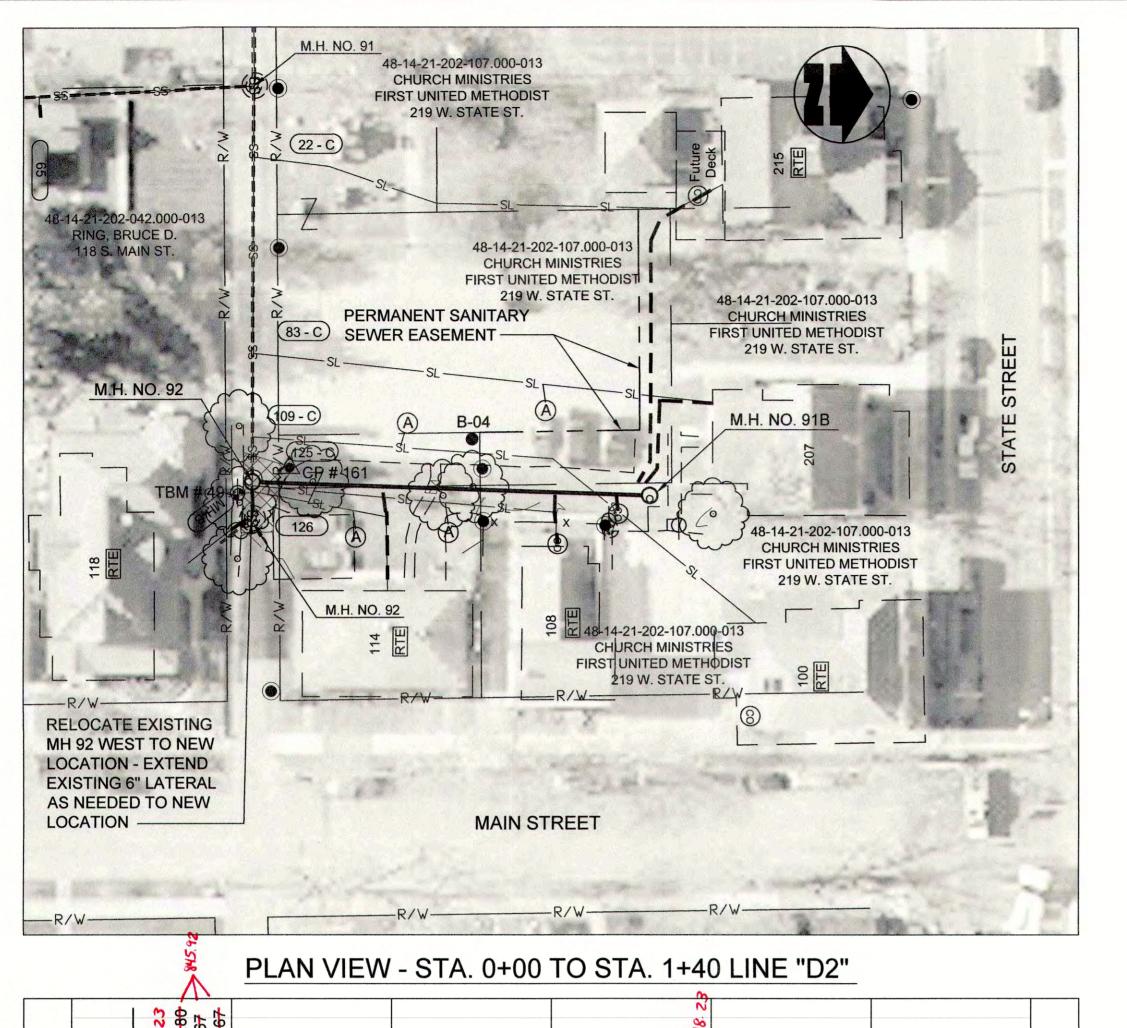
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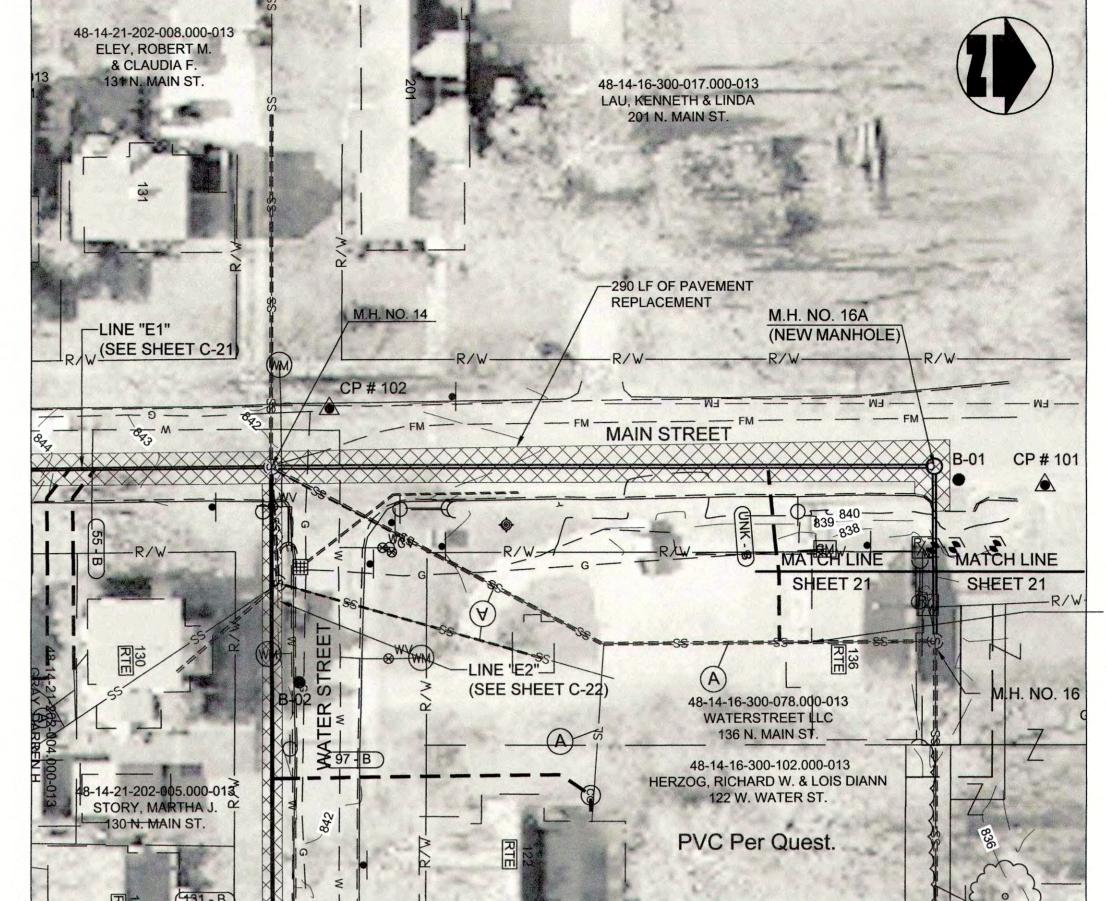
H.-1"=30', V.-1"=5'



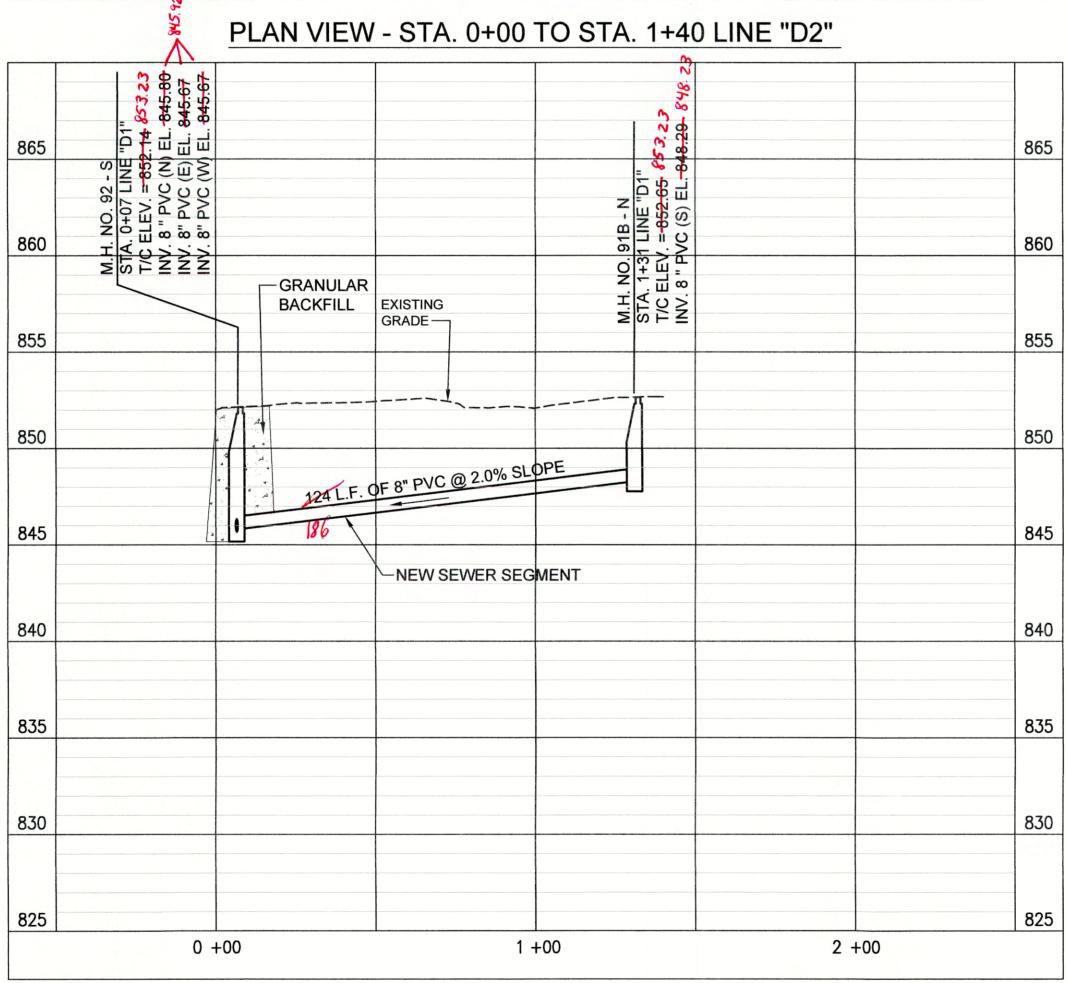




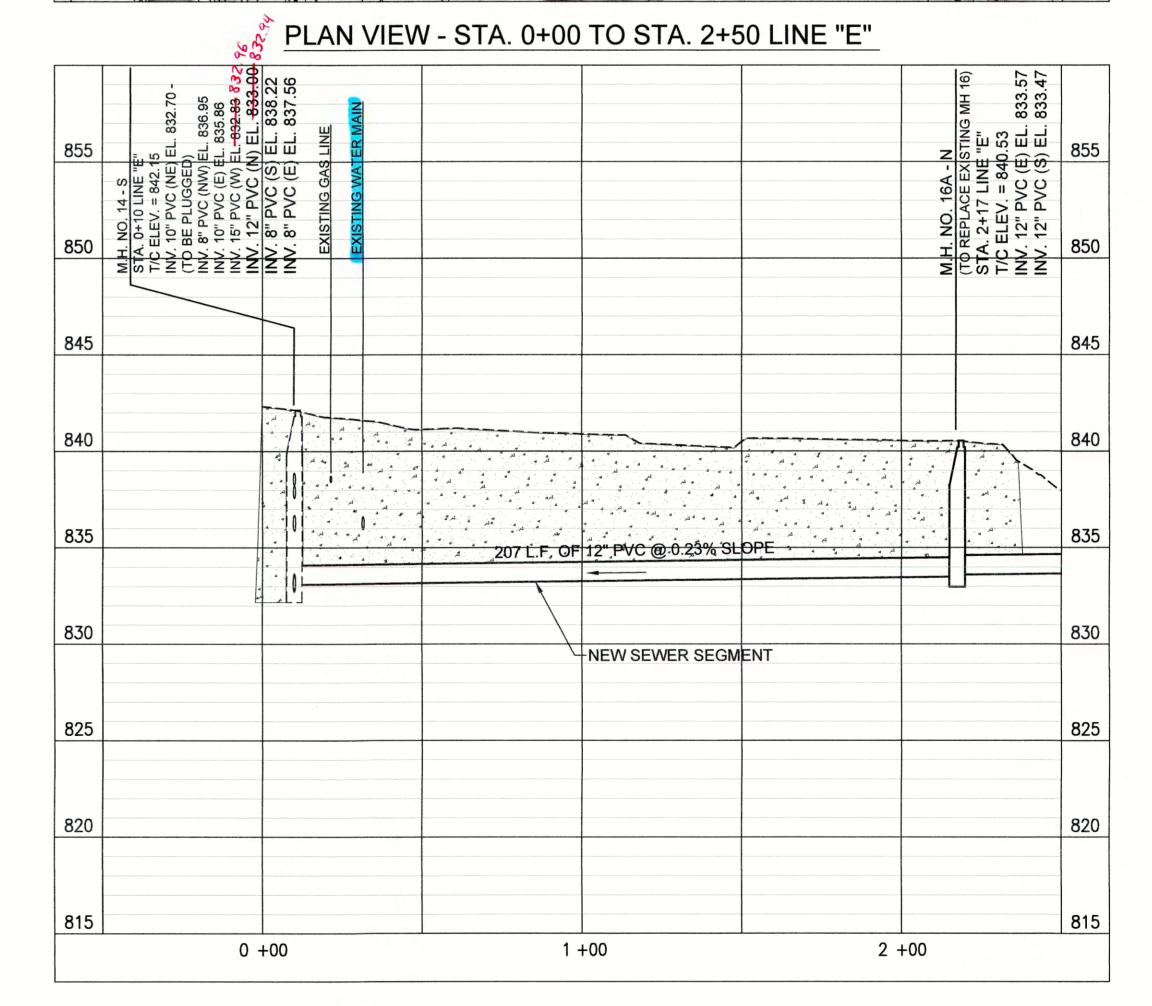




RE-USE PIPE SEGMENT UNDER BUILDING TO RE-ROUTE LATERAL FOR BUILDING; THEN ABANDON REST OF PIPE



PROFILE - STA. 0+00 TO STA. 1+40 LINE "D2"



PROFILE - STA. 0+00 TO STA. 2+50 LINE "E"

# A PIPE SEGMENT TO BE ABANDONED

LETTERS SHOWN NEXT TO MANHOLE NUMBERS IN THE PROFILE CORRESPOND TO REHABILITATION SCHEDULE ON SHEET C-42.

SEE SHEETS C-01 THROUGH C-15 FOR NOTES ON LATERAL REHABILITATION WORK.

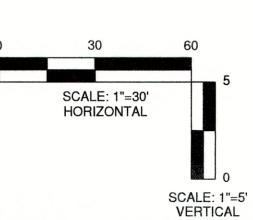
PROPOSED LEGEND

PROPOSED PERMANENT EASEMENT

PROPOSED SANITARY SEWER



PROPOSED SANITARY LATERAL

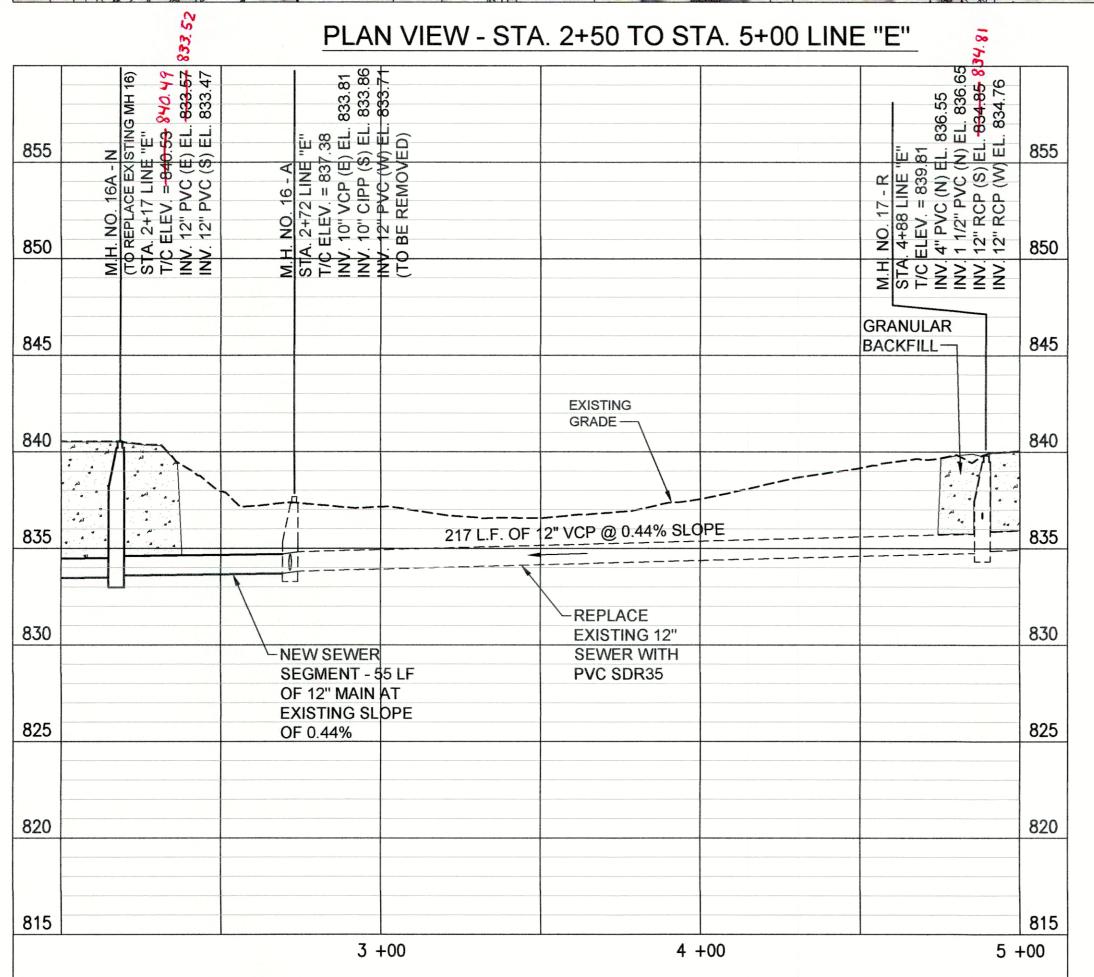


MARCH 2017 H.-1"=30', V.-1"=5'

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PROPOSED RIGHT-OF-WAY

SURFACE RESTORATION AND BACKFILL



PROFILE - STA. 2+50 TO STA. 5+00 LINE "E"

PROPOSED LEGEND

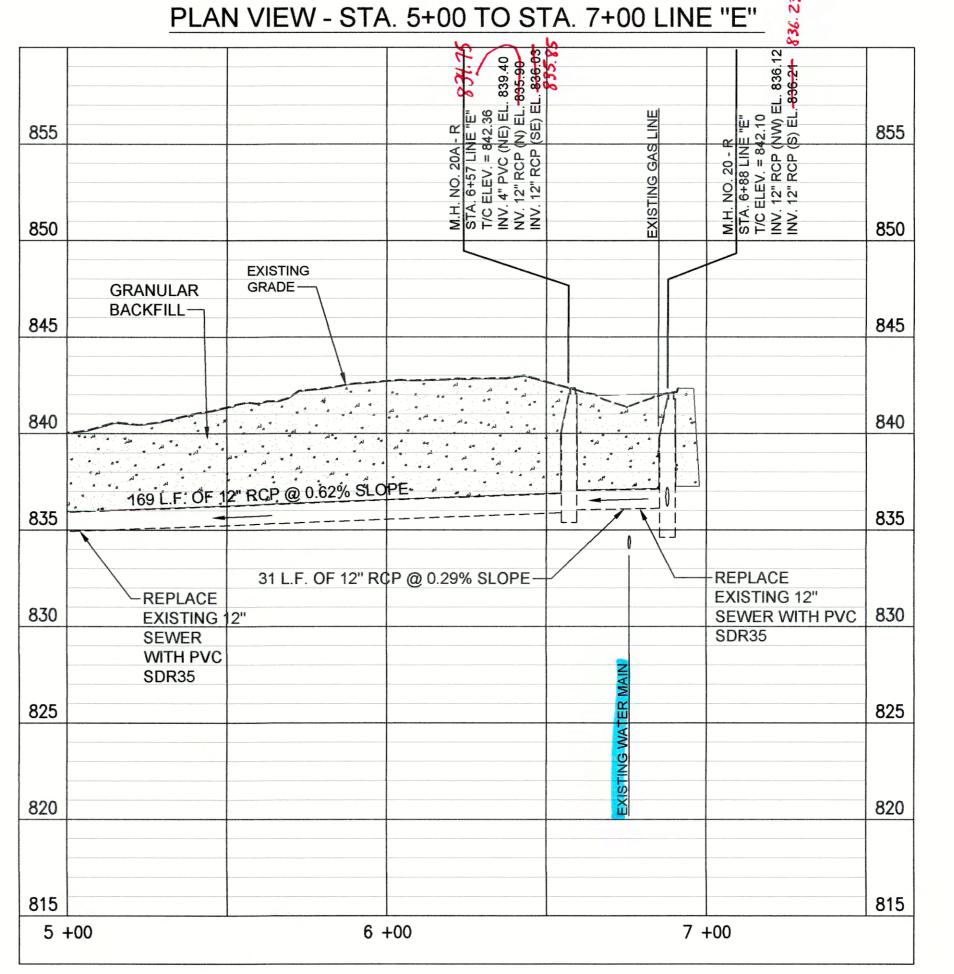
PROPOSED PERMANENT EASEMENT PROPOSED RIGHT-OF-WAY

PROPOSED SANITARY SEWER

SURFACE RESTORATION AND BACKFILL

PROPOSED SANITARY LATERAL

163 LF OF ALLEY RESURFACING 48-14-16-300-099.000-013 ANDERSON, EMILY M. 114 W. WATER ST. 48-14-16-300-106.000-013 LINE "Ē2" (SEE SHEET C-21)

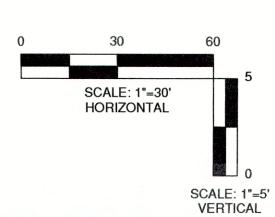


PROFILE - STA. 5+00 TO STA. 7+00 LINE "E"

A PIPE SEGMENT TO BE ABANDONED

LETTERS SHOWN NEXT TO MANHOLE NUMBERS IN THE PROFILE CORRESPOND TO REHABILITATION SCHEDULE ON SHEET C-42.

SEE SHEETS C-01 THROUGH C-15 FOR NOTES ON LATERAL REHABILITATION WORK.

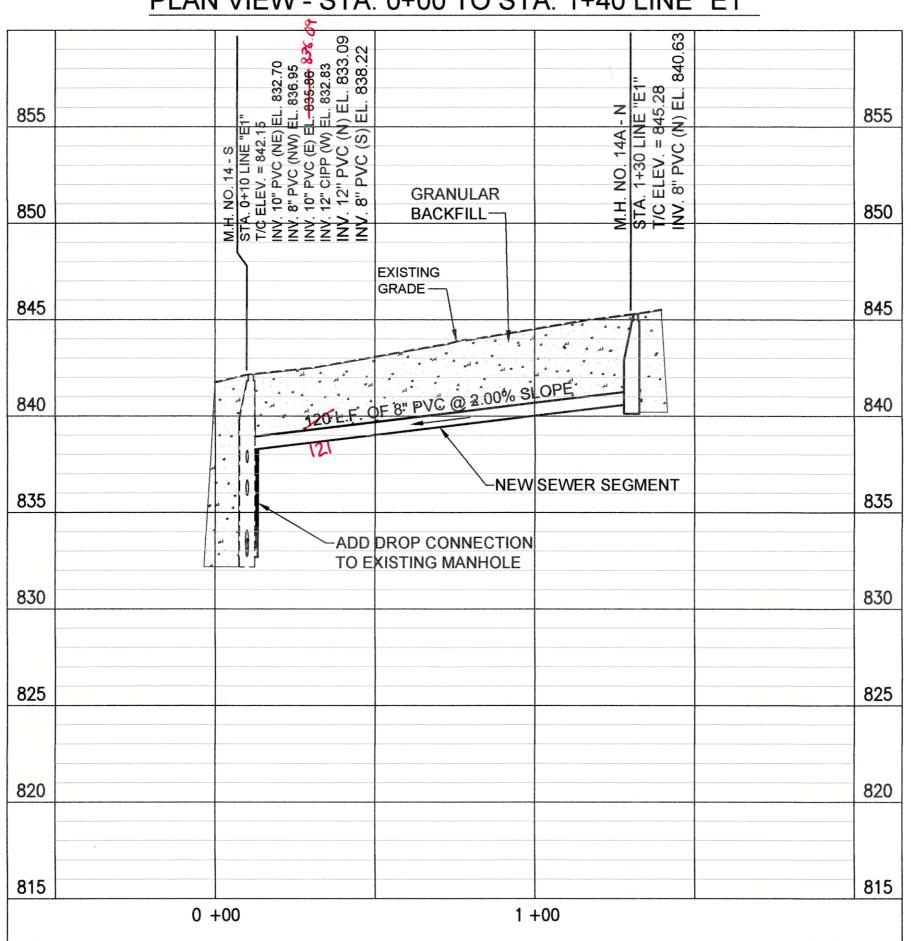


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LI SEWER REHABILITA TOWN OF PEI

MARCH 2017 H.-1"=30', V.-1"=5'





PROFILE - STA. 0+00 TO STA. 1+40 LINE "E1"

# PROPOSED LEGEND

1. LETTERS SHOWN NEXT TO MANHOLE NUMBERS IN THE PROFILE CORRESPOND TO REHABILITATION SCHEDULE ON SHEET C-42.

SEE SHEETS C-01 THROUGH C-15 FOR NOTES ON LATERAL REHABILITATION WORK.

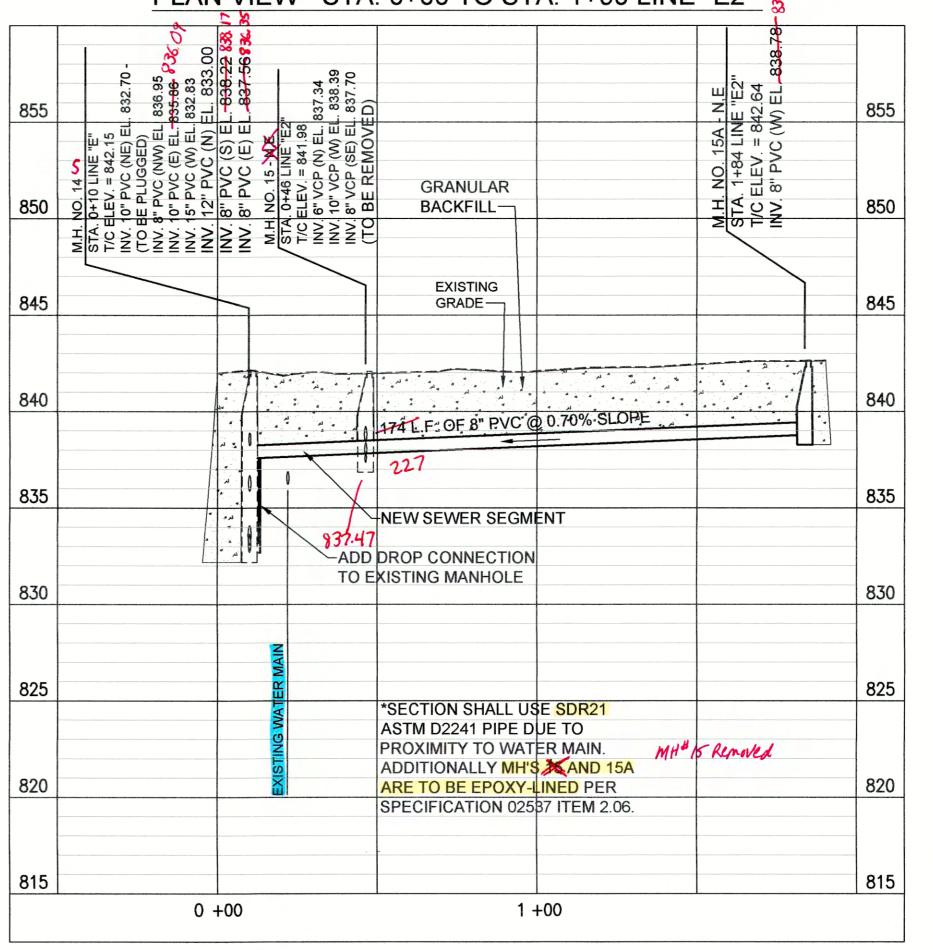
PROPOSED PERMANENT EASEMENT PROPOSED RIGHT-OF-WAY

PROPOSED SANITARY SEWER

PROPOSED SANITARY LATERAL SURFACE RESTORATION AND BACKFILL

—169 LF OF SIDEWALK REPLACEMENT 8-14-21-202-006.000-013 JONES, ROBERT C. & PAMELA J. HORTON JONES 117 W. WATER ST. 48-14-21-202-063.000-013 UPTON, JEFFREY T. & HEATHER F. 113 W. WATER ST. ABANDON EXISTING SEWER ONCE ALL LATERALS ARE RE-ROUTED

PLAN VIEW - STA. 0+00 TO STA. 1+90 LINE "E2"



PROFILE - STA. 0+00 TO STA. 1+90 LINE "E2"

SCALE: 1"=30' HORIZONTAL SCALE: 1"=5' VERTICAL

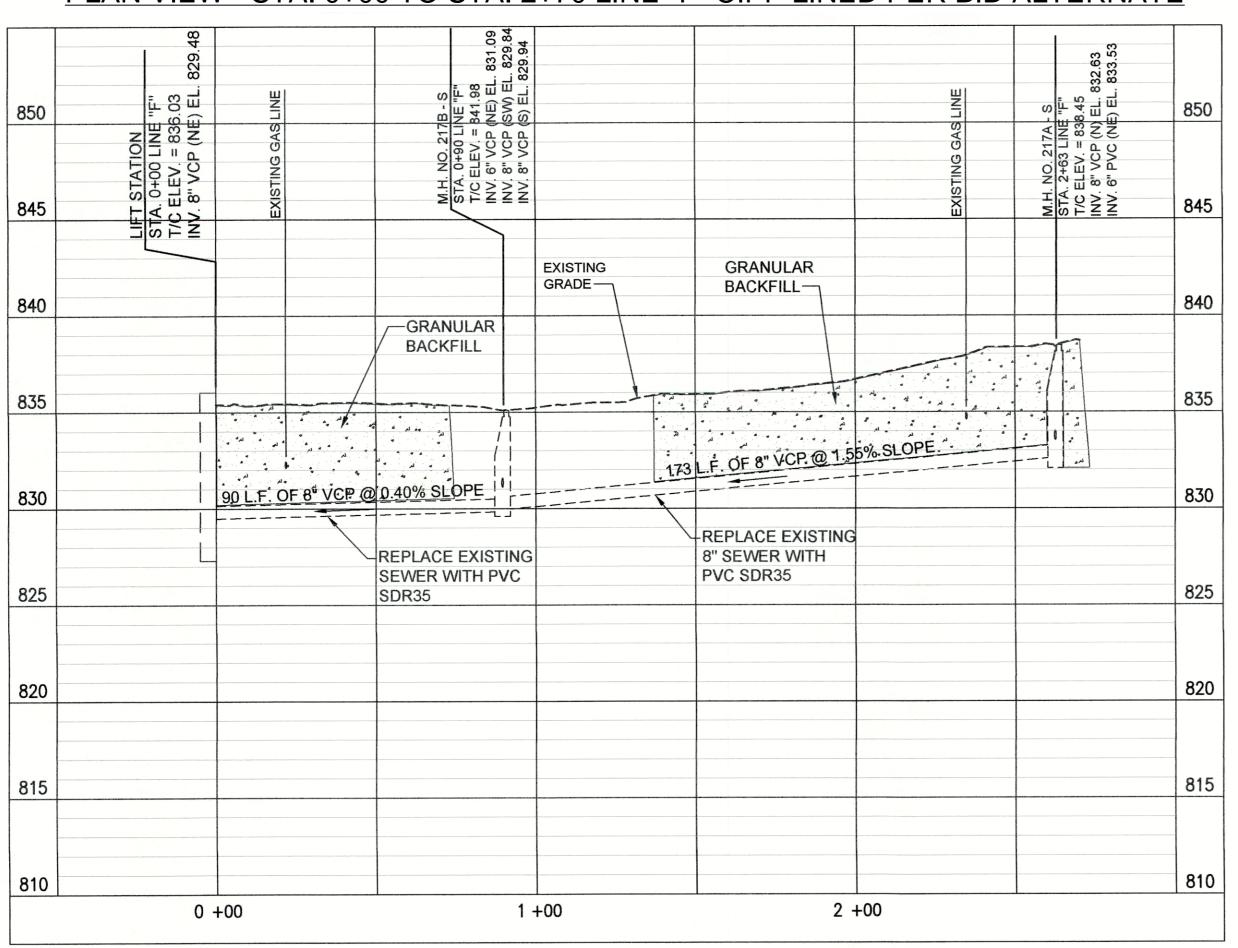
MARCH 2017 H.-1"=30', V.-1"=5'

C-22

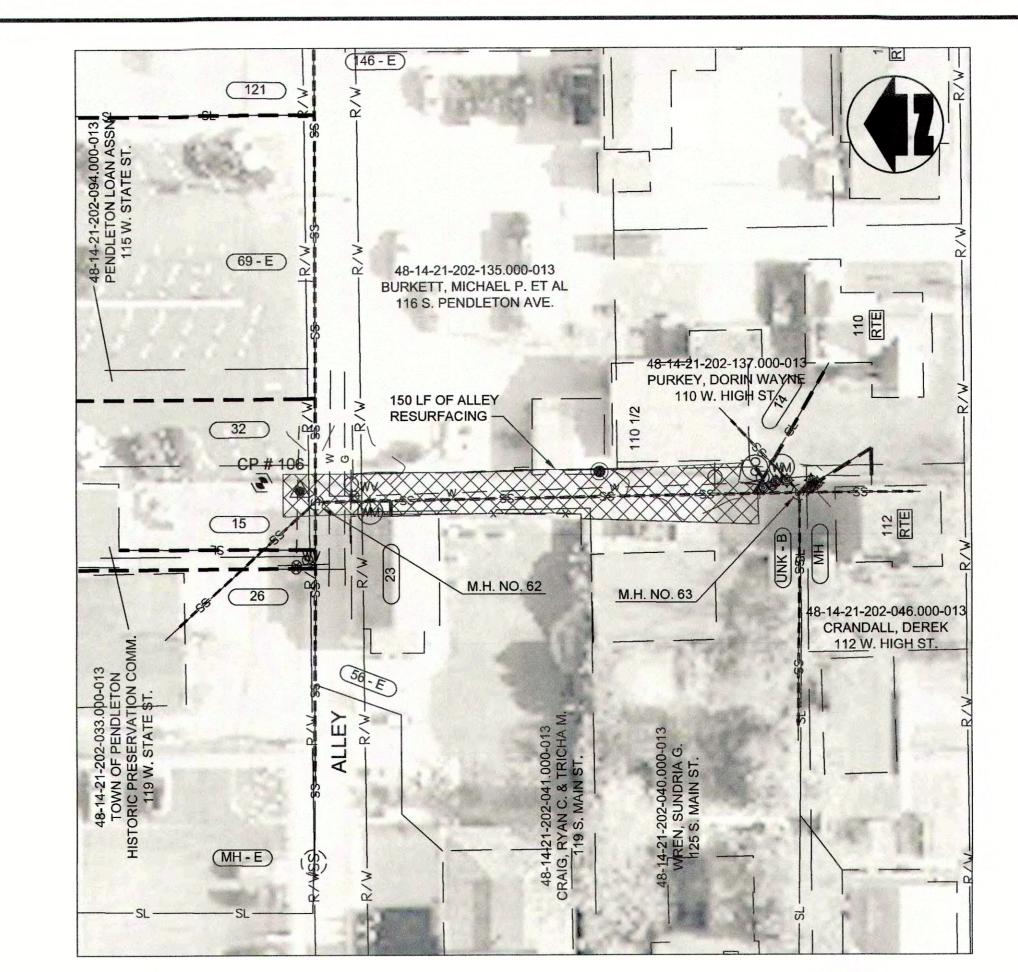
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A PIPE SEGMENT TO BE ABANDONED

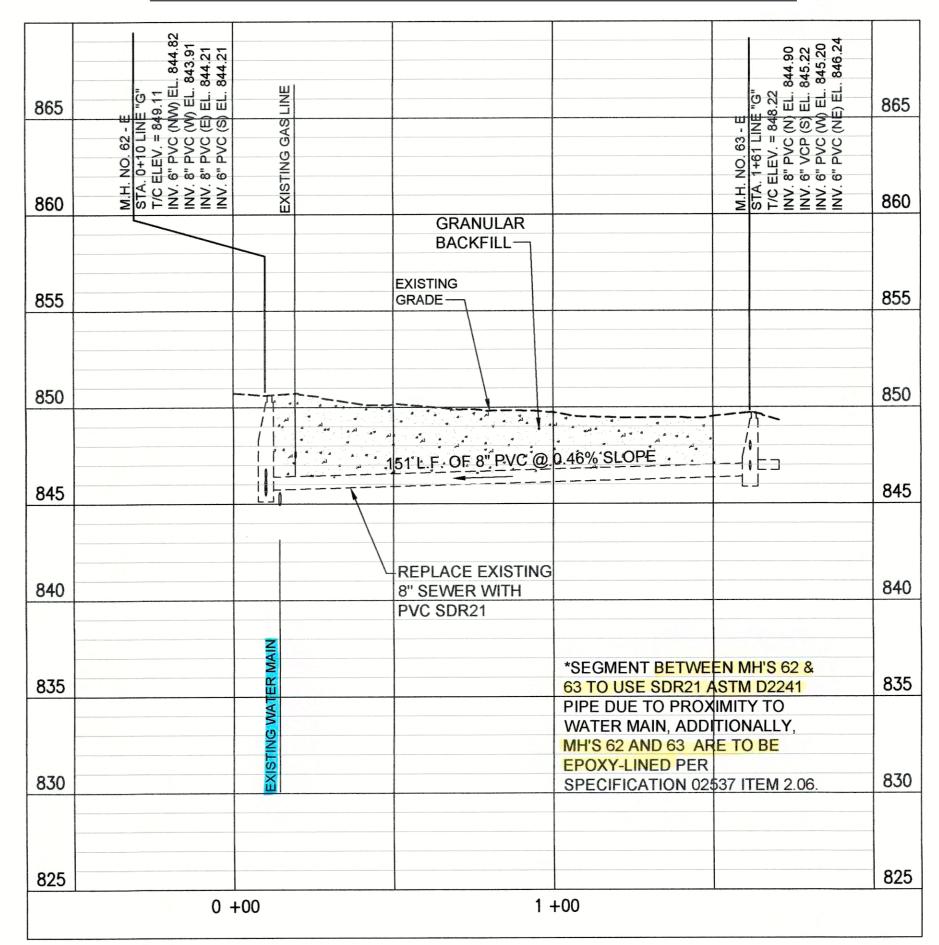
# PLAN VIEW - STA. 0+00 TO STA. 2+70 LINE "F" CIPP LINED PER BID ALTERNATE



# PROFILE - STA. 0+00 TO STA. 2+70 LINE "F"



# PLAN VIEW - STA. 0+00 TO STA. 2+70 LINE "G"



PROFILE - STA. 0+00 TO STA. 1+60 LINE "G"

(A) PIPE SEGMENT TO BE ABANDONED

1. LETTERS SHOWN NEXT TO MANHOLE NUMBERS IN THE PROFILE CORRESPOND TO

REHABILITATION SCHEDULE ON SHEET C-42. 2. SEE SHEETS C-01 THROUGH C-15 FOR NOTES ON LATERAL REHABILITATION WORK. PROPOSED LEGEND

PROPOSED PERMANENT EASEMENT PROPOSED RIGHT-OF-WAY

PROPOSED SANITARY SEWER

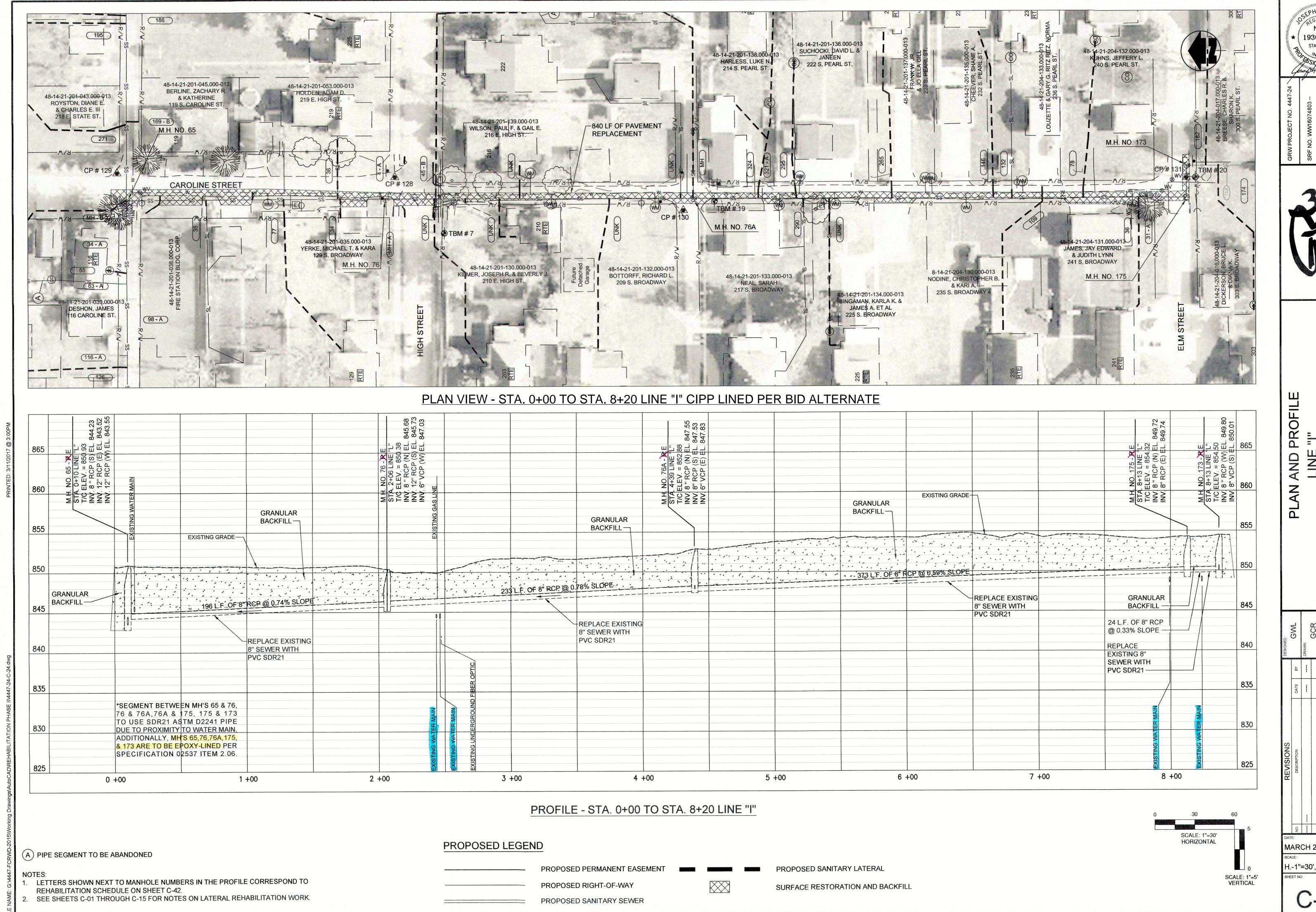
SURFACE RESTORATION AND BACKFILL

PROPOSED SANITARY LATERAL

SCALE: 1"=30' HORIZONTAL SCALE: 1"=5' VERTICAL **\*** 19300407

MARCH 2017

H.-1"=30', V.-1"=5'

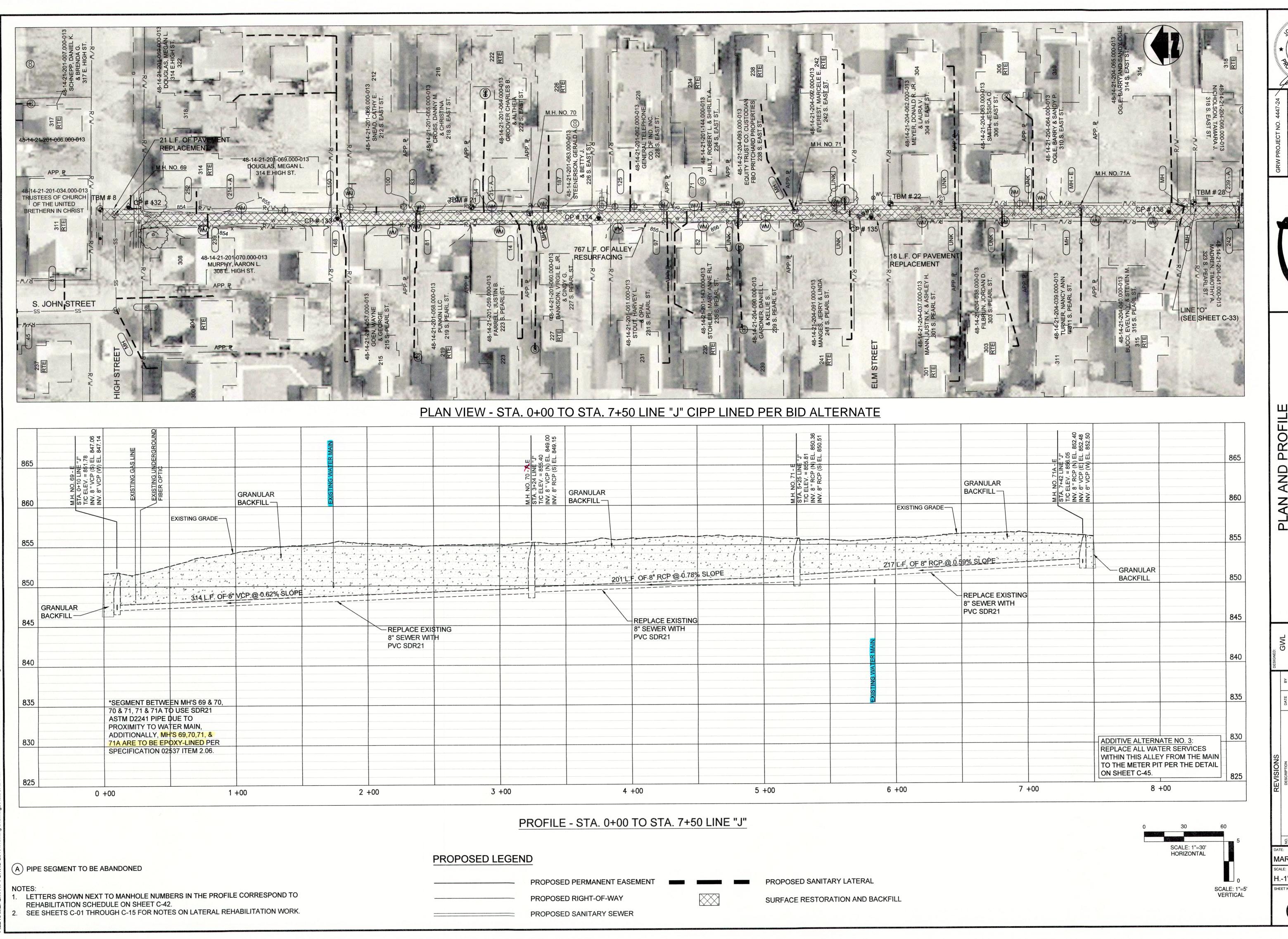


19300407

MARCH 2017

H.-1"=30', V.-1"=5'

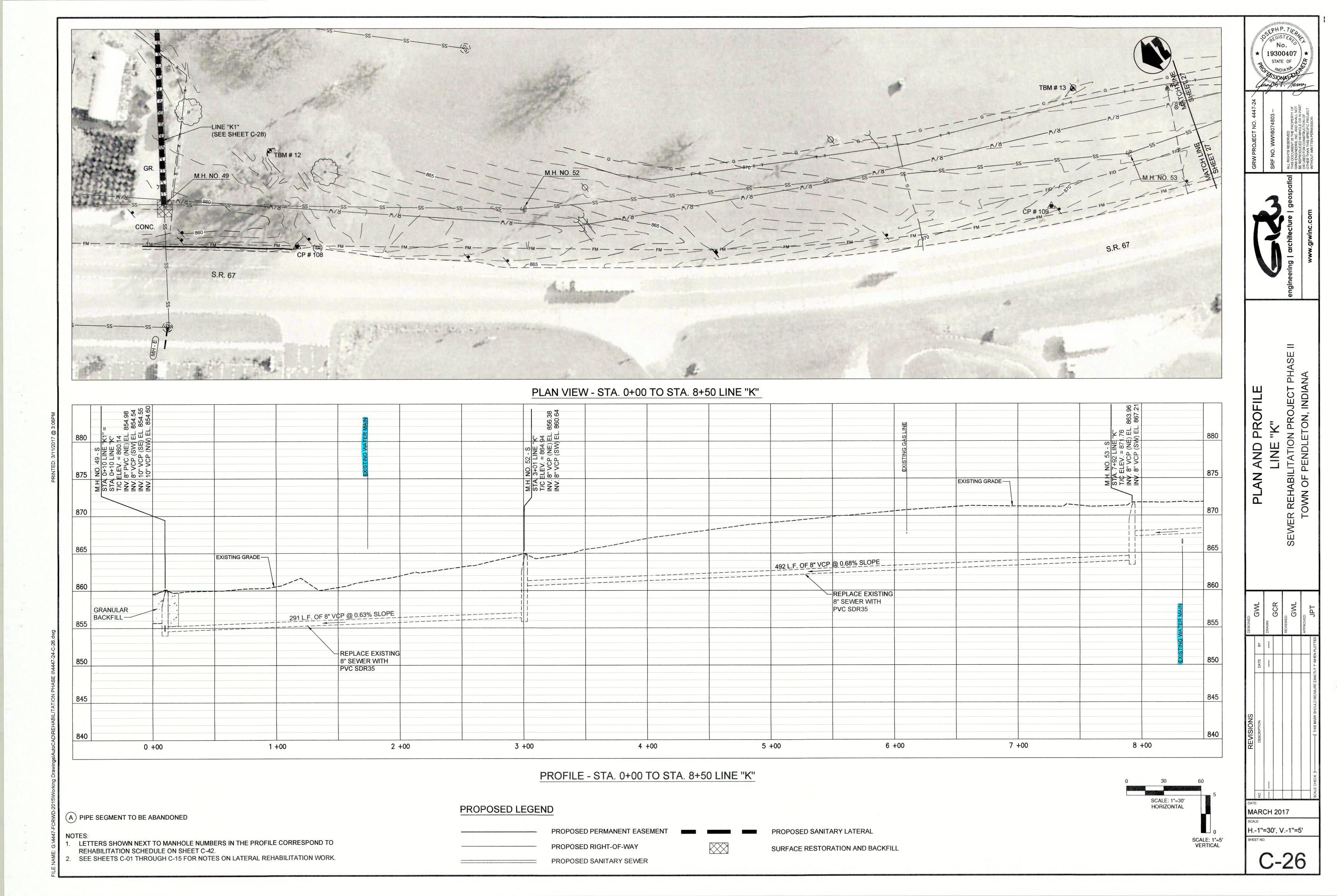
C-24

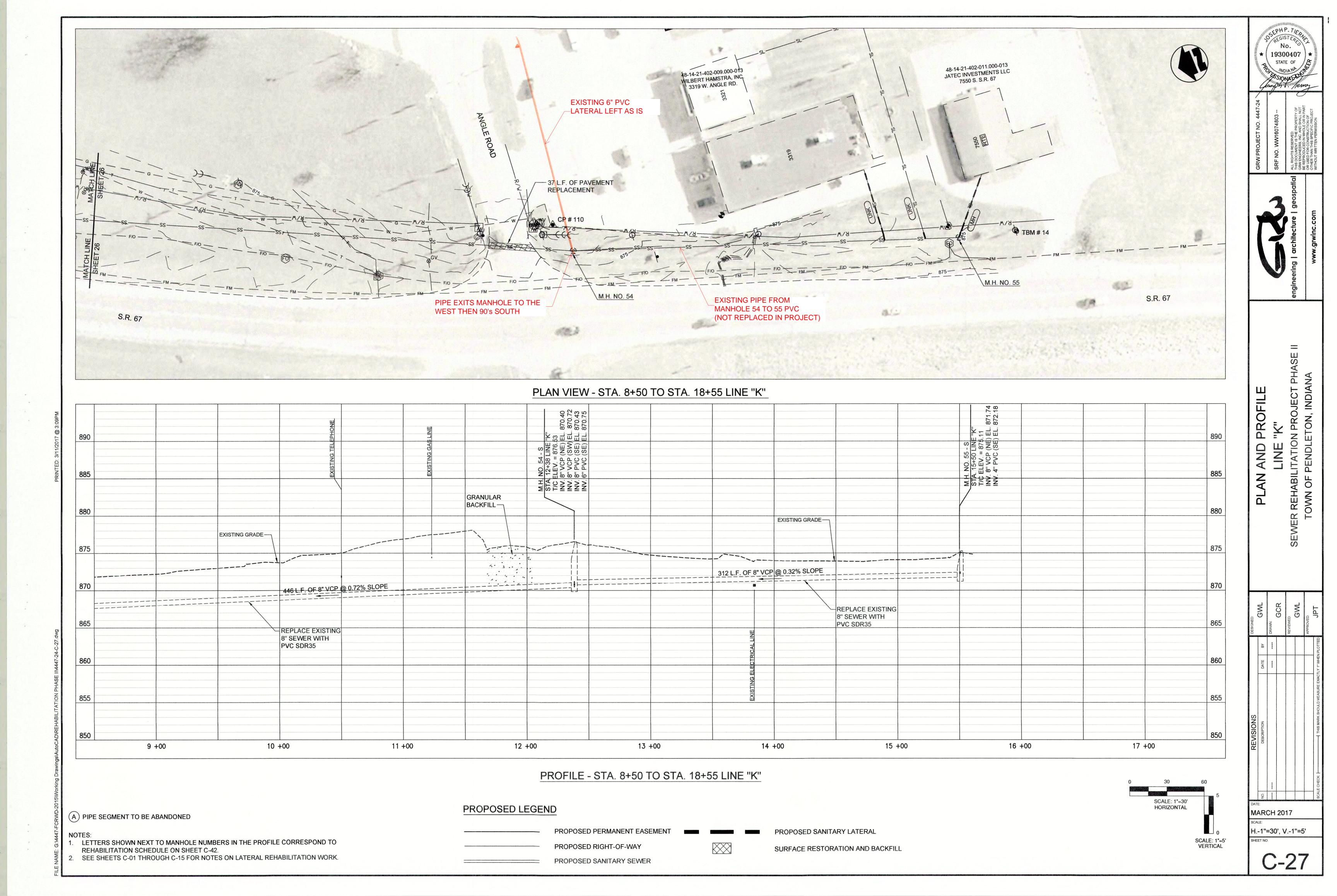


MARCH 2017

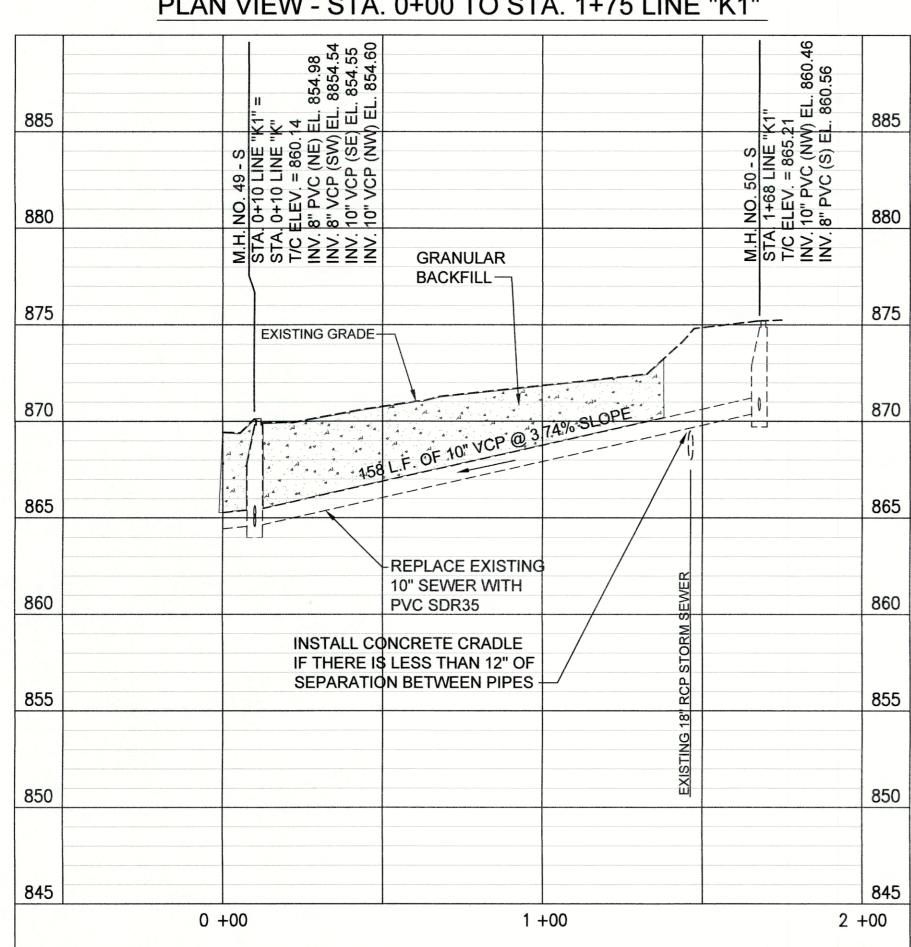
H.-1"=30', V.-1"=5'

C-25

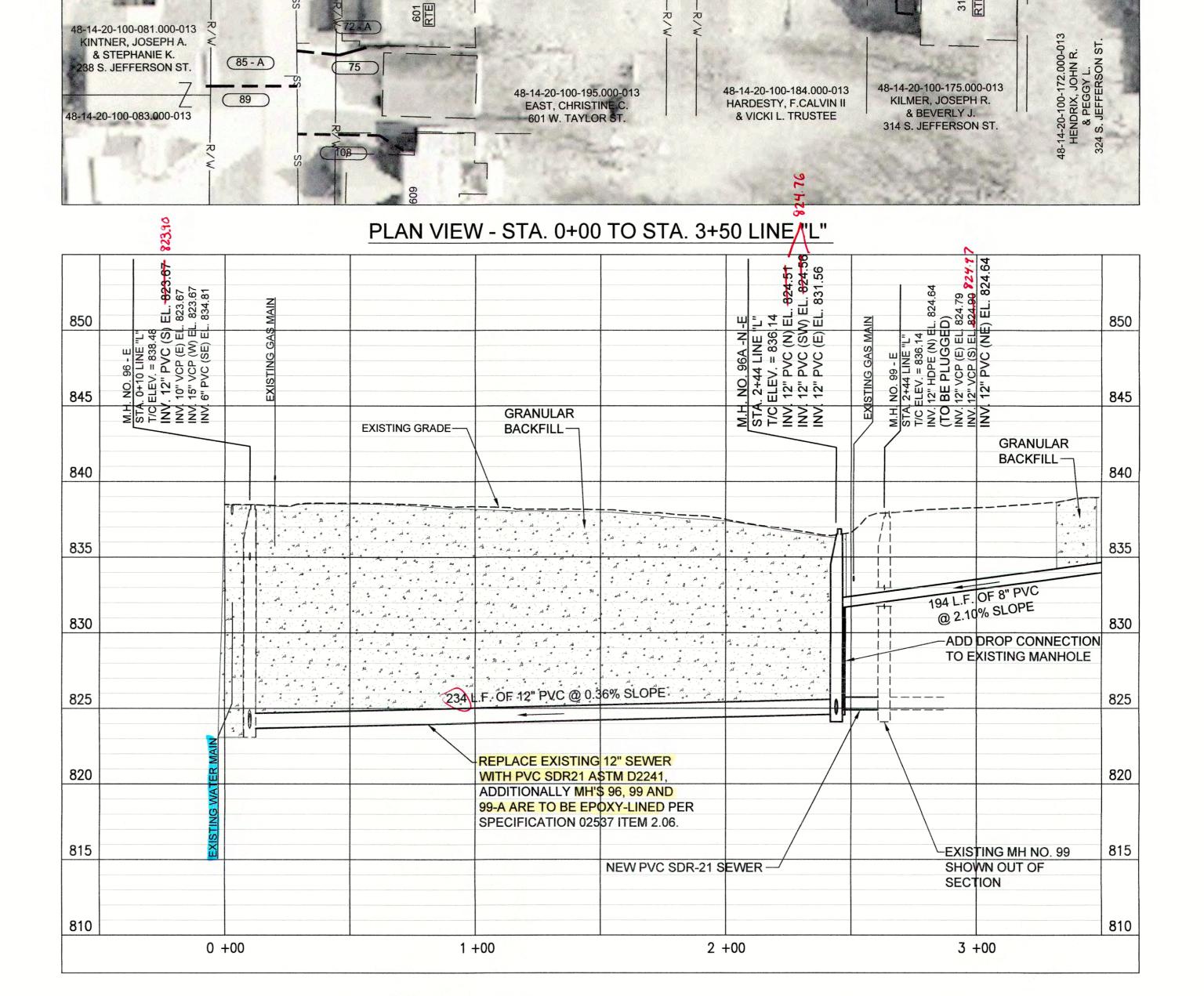








PROFILE - STA. 0+00 TO STA. 1+75 LINE "K1"



& TAMORA C. 315 S. JEFFERSON ST.

48-14-20-100-176.000-013 WALL, JAMES FRANKLIN, RAY ALTON & MARTHA L. DYAL 319 S. JEFFERSON ST.

270 L.F. OF PAVEMENT

REPLACEMENT

48-14-20-100-188.000-013 CROSLEY, MICHAEL G. 311 S. JEFFERSON ST.

& SHERRY L. BAKER 521 W. TAYLOR ST.

PROFILE - STA. 0+00 TO STA. 3+50 LINE "L"

1. LETTERS SHOWN NEXT TO MANHOLE NUMBERS IN THE PROFILE CORRESPOND TO REHABILITATION SCHEDULE ON SHEET C-42.

PROPOSED PERMANENT EASEMENT PROPOSED RIGHT-OF-WAY PROPOSED SANITARY SEWER



SURFACE RESTORATION AND BACKFILL

PROPOSED SANITARY LATERAL

SCALE: 1"=30' HORIZONTAL

SCALE: 1"=5' VERTICAL

Ö. I MARCH 2017 H.-1"=30', V.-1"=5'

LINE "K1"
SEWER REHABILITA
TOWN OF PEN

A PIPE SEGMENT TO BE ABANDONED

2. SEE SHEETS C-01 THROUGH C-15 FOR NOTES ON LATERAL REHABILITATION WORK.

PROPOSED LEGEND

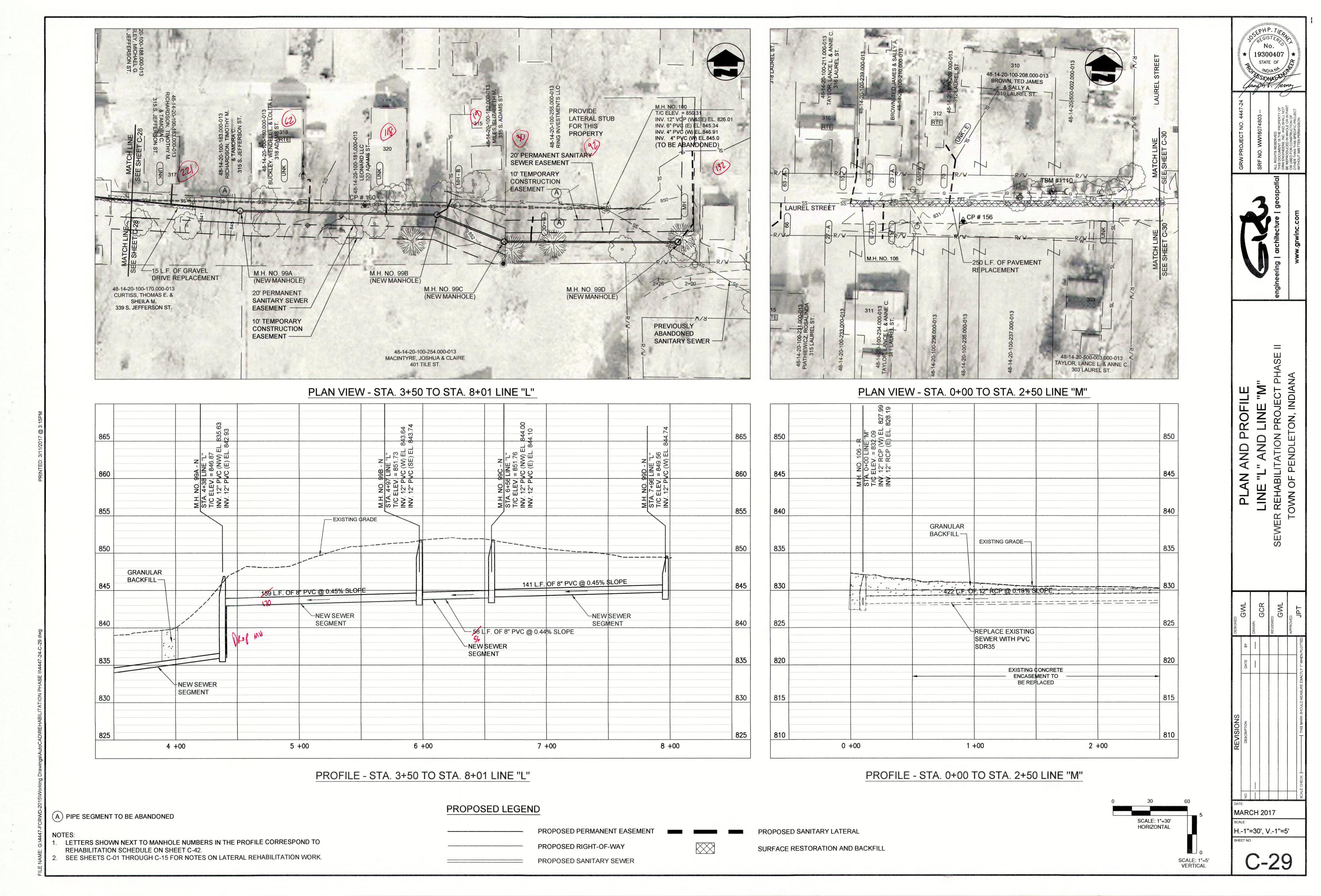
48-14-20-100-079.000-013 LYNCH, CULLIN & TRACEY D. 520 W. TAYLOR ST.

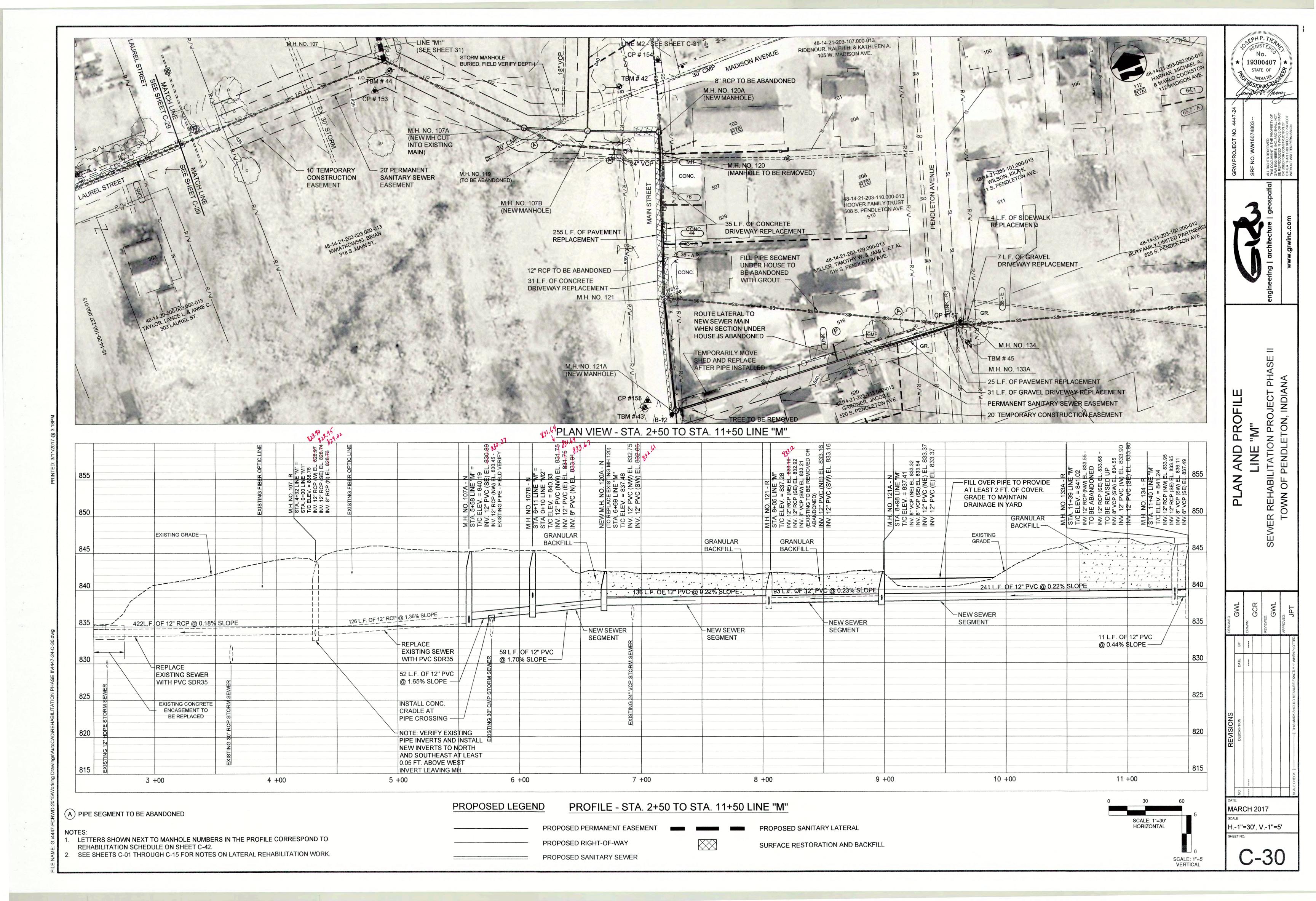
M.H. NO. 96

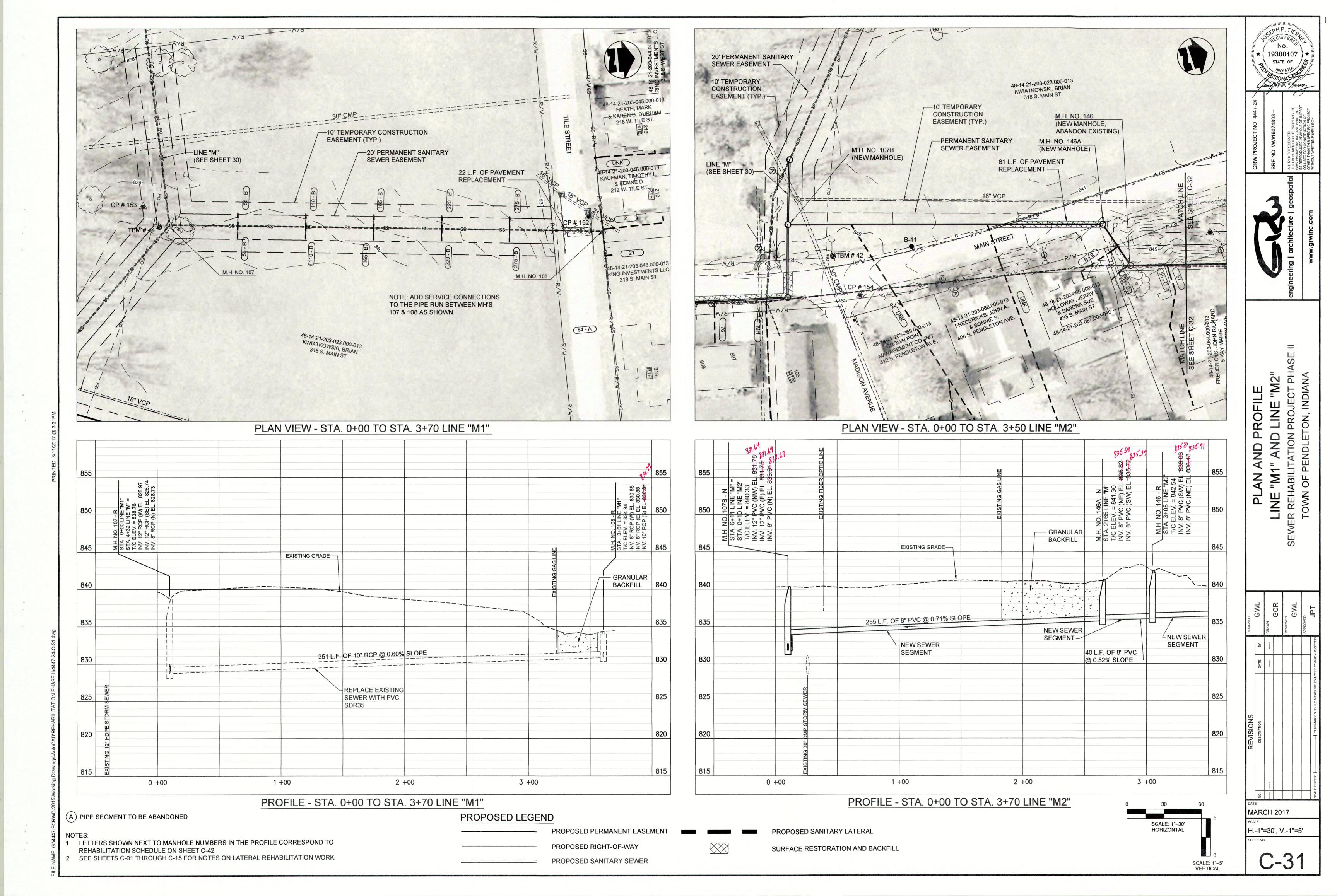
JEFFERSON STREET

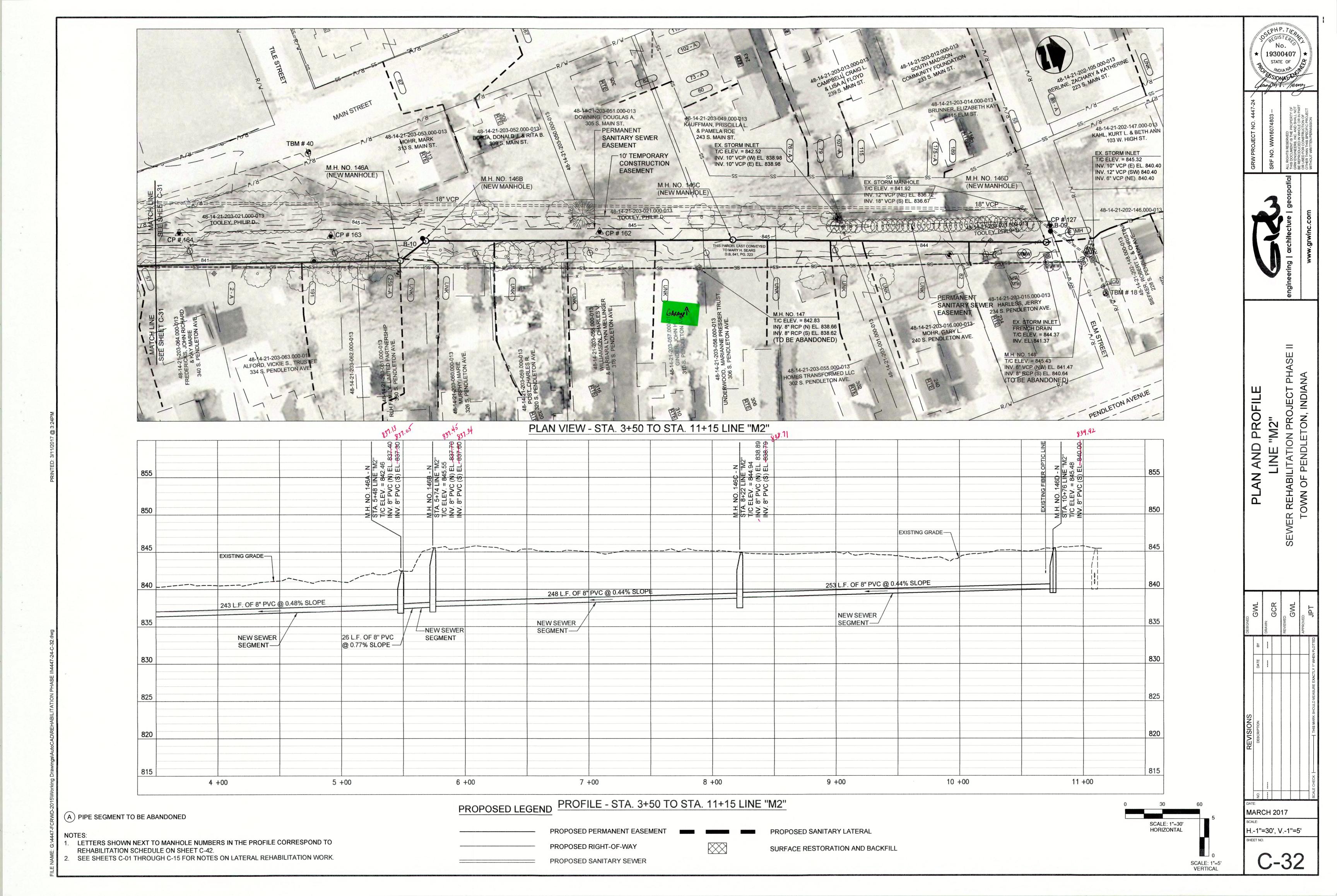
**TBM # 38** 

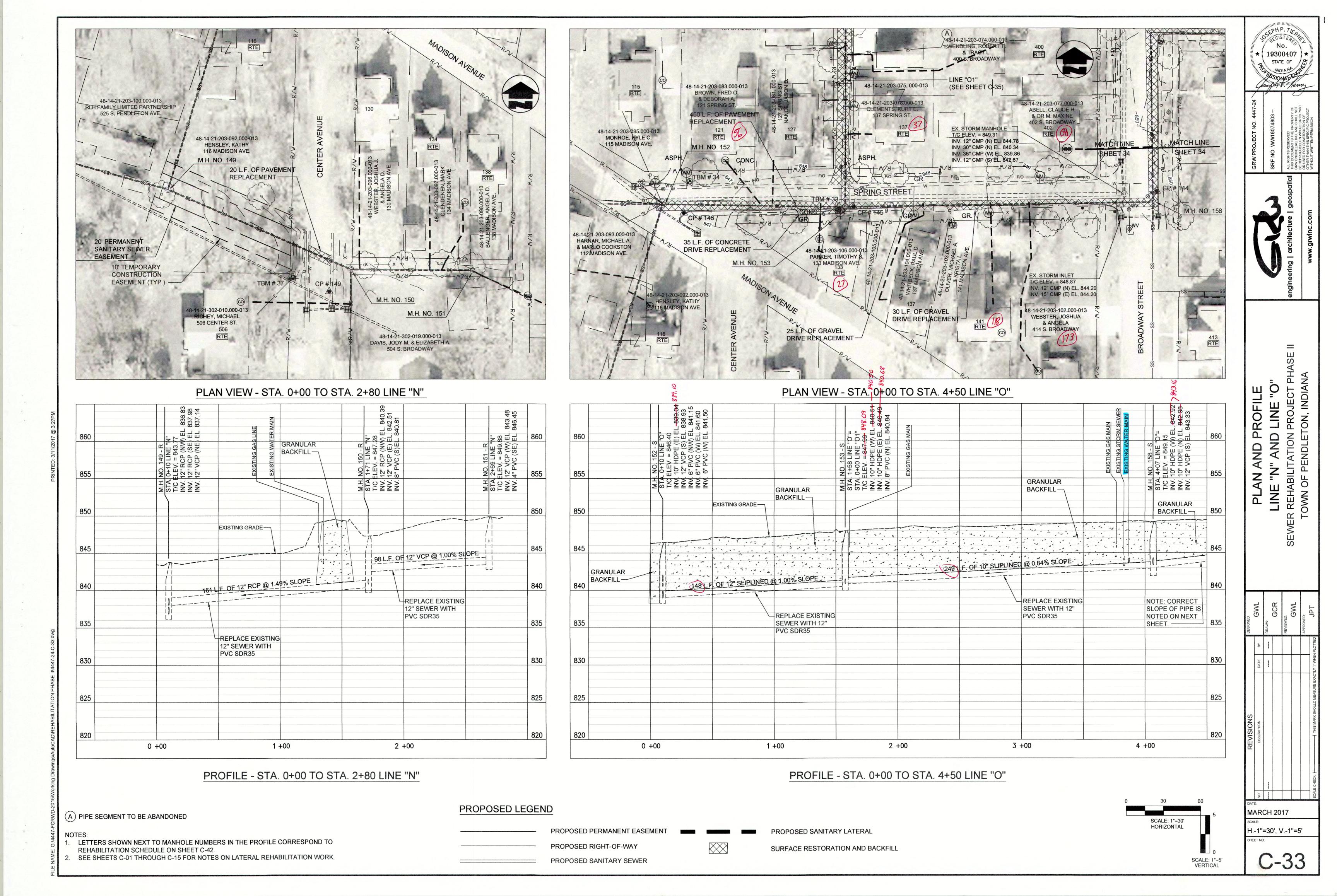
48-14-20-100-078,000-013 MARSTALL, DON<del>AL</del>D W. & MARY PATRICIA 522 W. TAYLOR ST

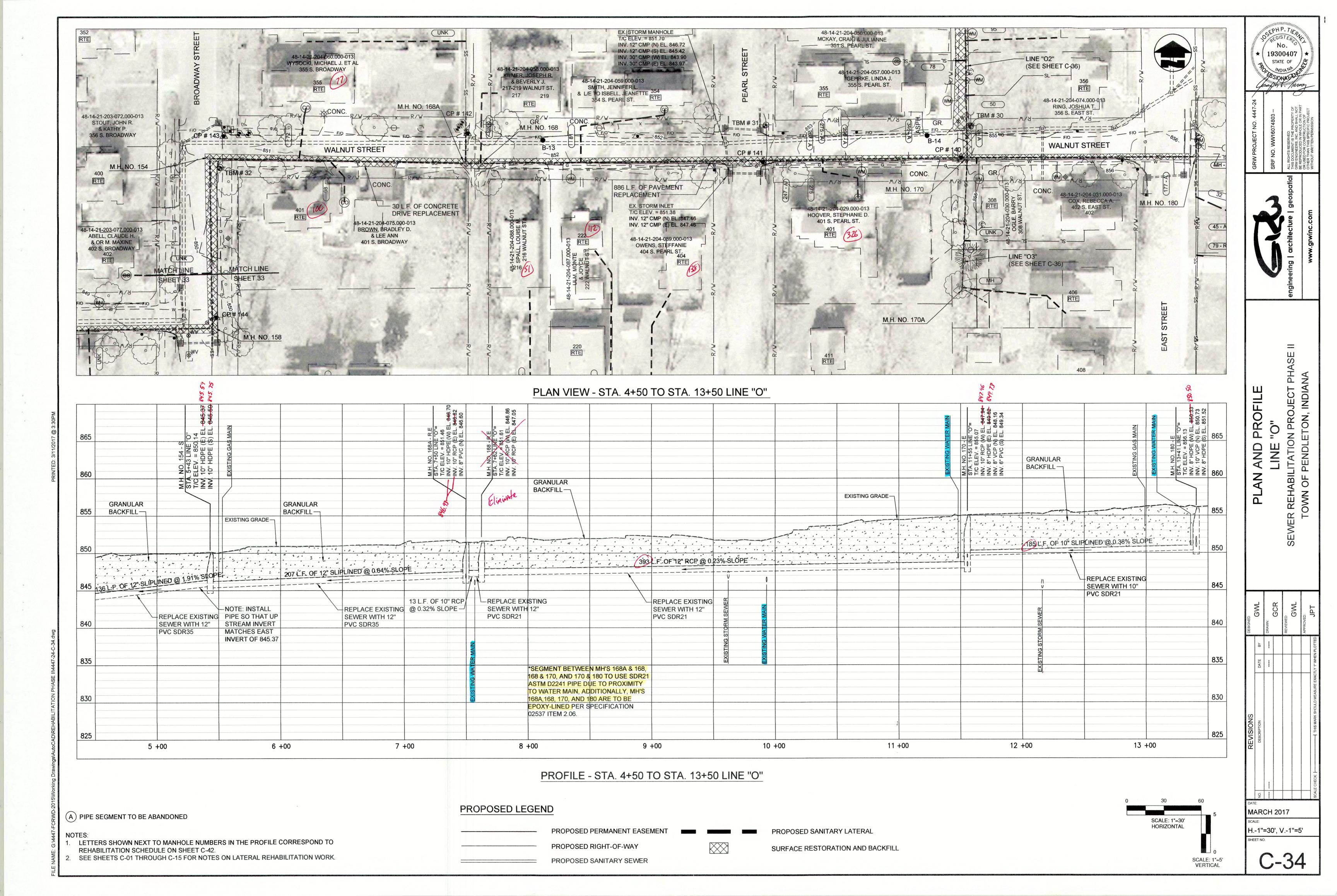


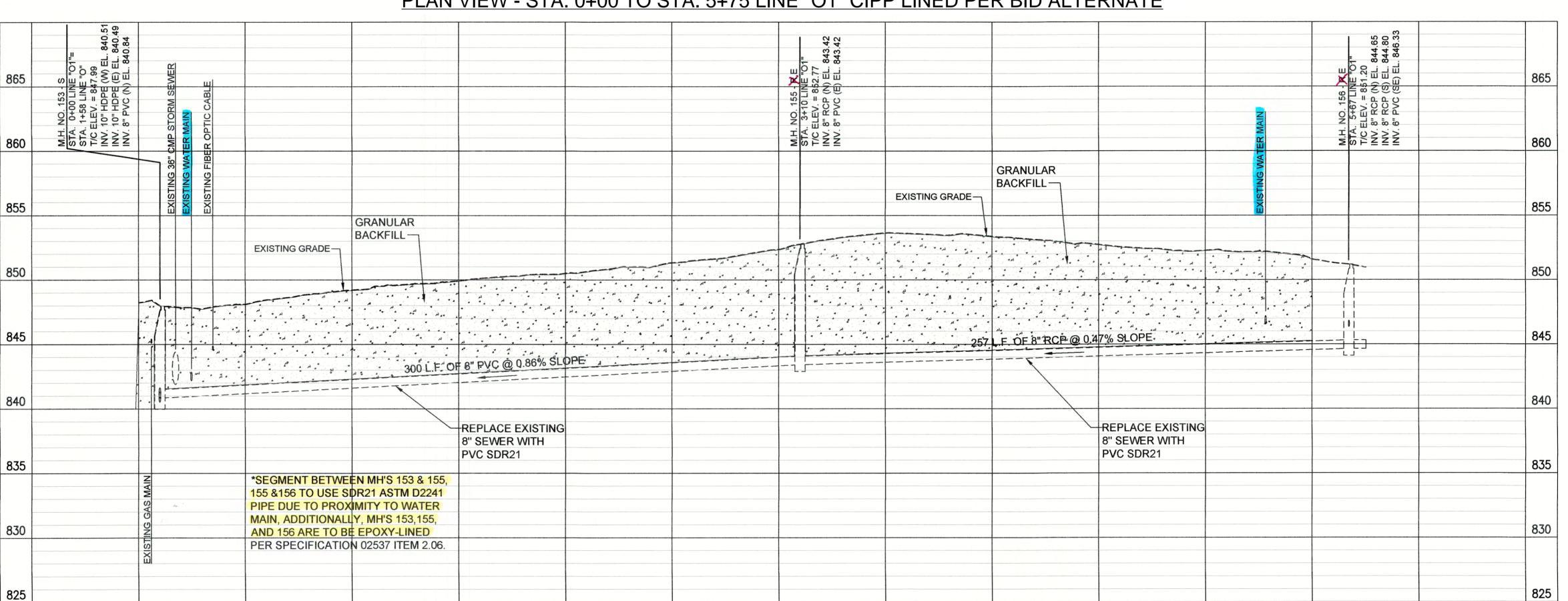












PROFILE - STA. 0+00 TO STA. 5+75 LINE "O1"

3 +00

(A) PIPE SEGMENT TO BE ABANDONED

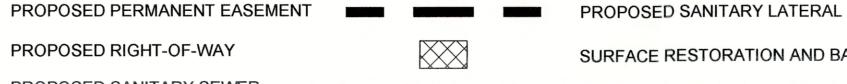
LETTERS SHOWN NEXT TO MANHOLE NUMBERS IN THE PROFILE CORRESPOND TO REHABILITATION SCHEDULE ON SHEET C-42.

2. SEE SHEETS C-01 THROUGH C-15 FOR NOTES ON LATERAL REHABILITATION WORK.

0 +00

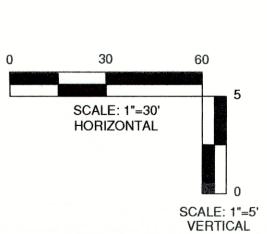
1 +00

PROPOSED RIGHT-OF-WAY PROPOSED SANITARY SEWER



4 +00

SURFACE RESTORATION AND BACKFILL



MARCH 2017

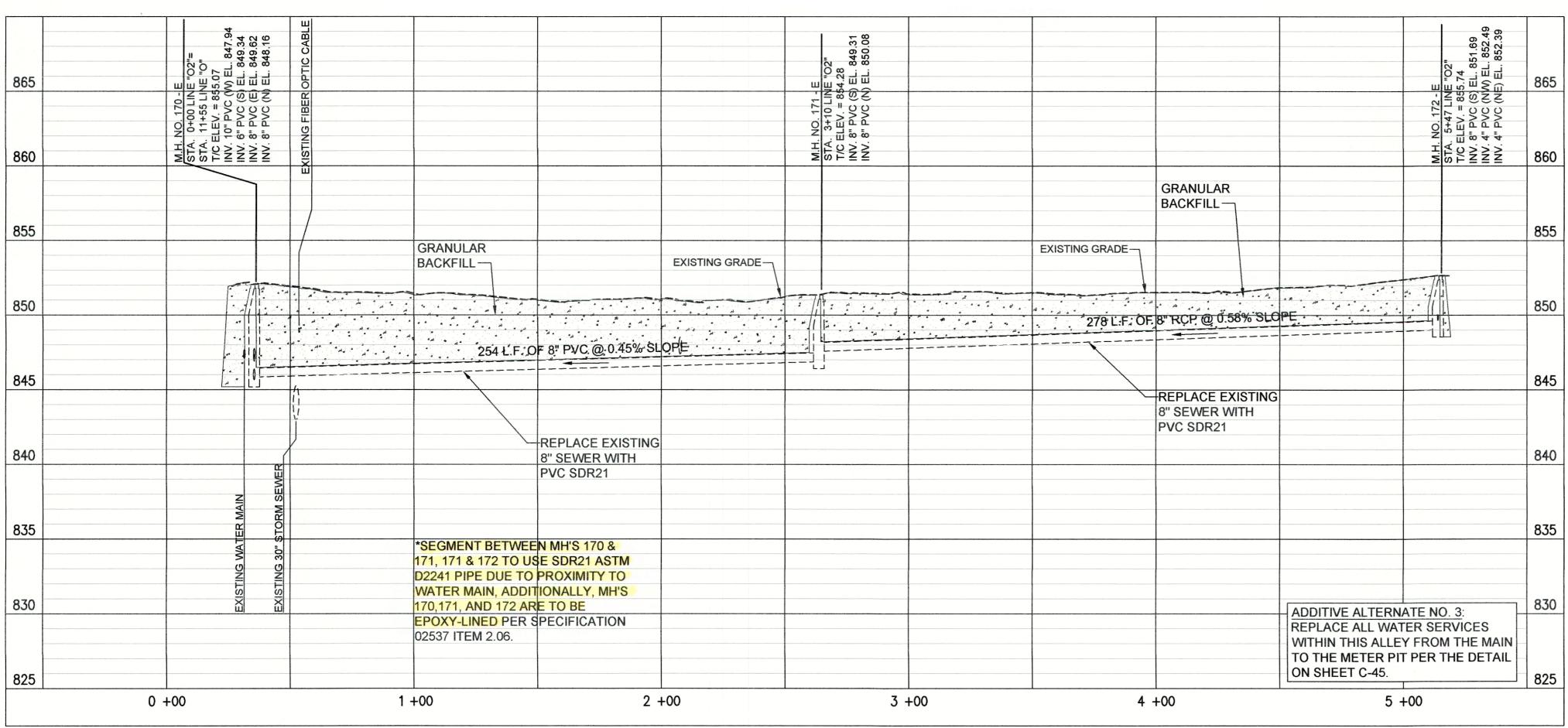
H.-1"=30', V.-1"=5'

PROPOSED LEGEND

2 + 00

5 +00

6 +00



PROFILE - STA. 0+00 TO STA. 5+50 LINE "O2"

## PROPOSED LEGEND

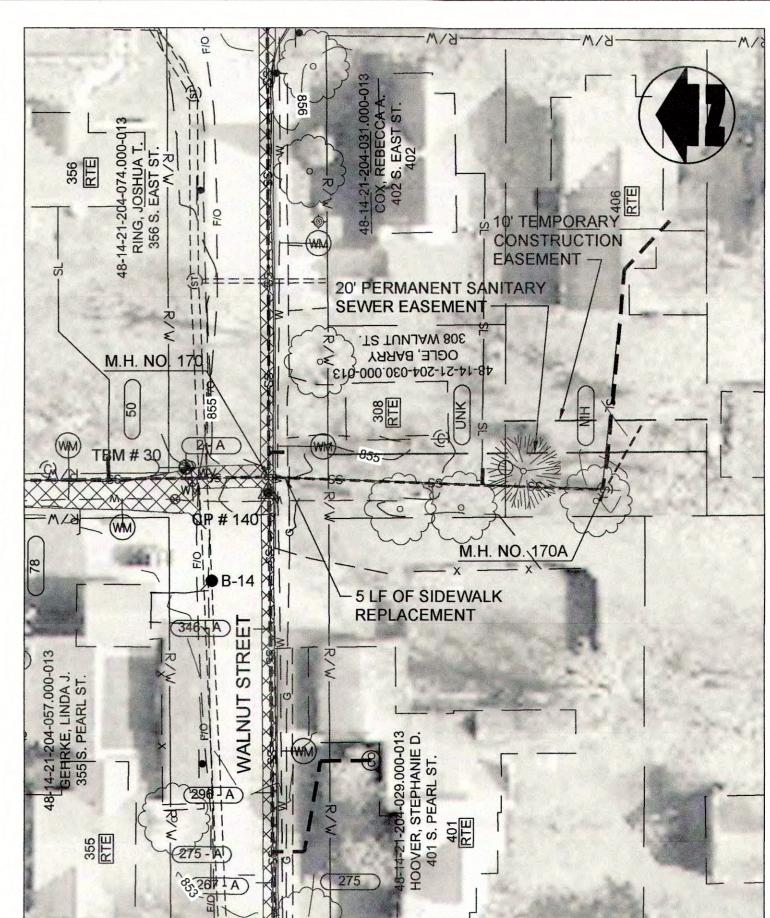
LETTERS SHOWN NEXT TO MANHOLE NUMBERS IN THE PROFILE CORRESPOND TO REHABILITATION SCHEDULE ON SHEET C-42.

SEE SHEETS C-01 THROUGH C-15 FOR NOTES ON LATERAL REHABILITATION WORK.

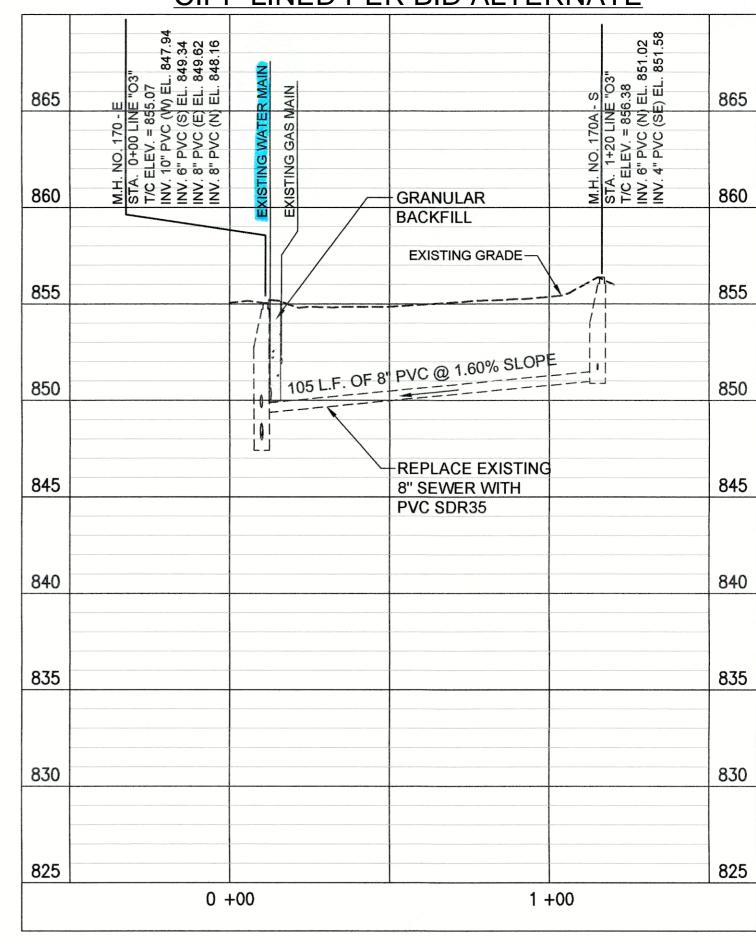
A PIPE SEGMENT TO BE ABANDONED

PROPOSED PERMANENT EASEMENT PROPOSED RIGHT-OF-WAY PROPOSED SANITARY SEWER

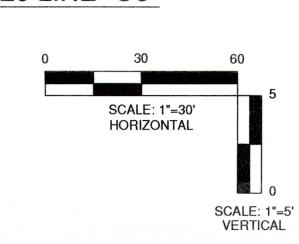
PROPOSED SANITARY LATERAL SURFACE RESTORATION AND BACKFILL



PLAN VIEW - STA. 0+00 TO STA. 1+20 LINE "O3" CIPP LINED PER BID ALTERNATE



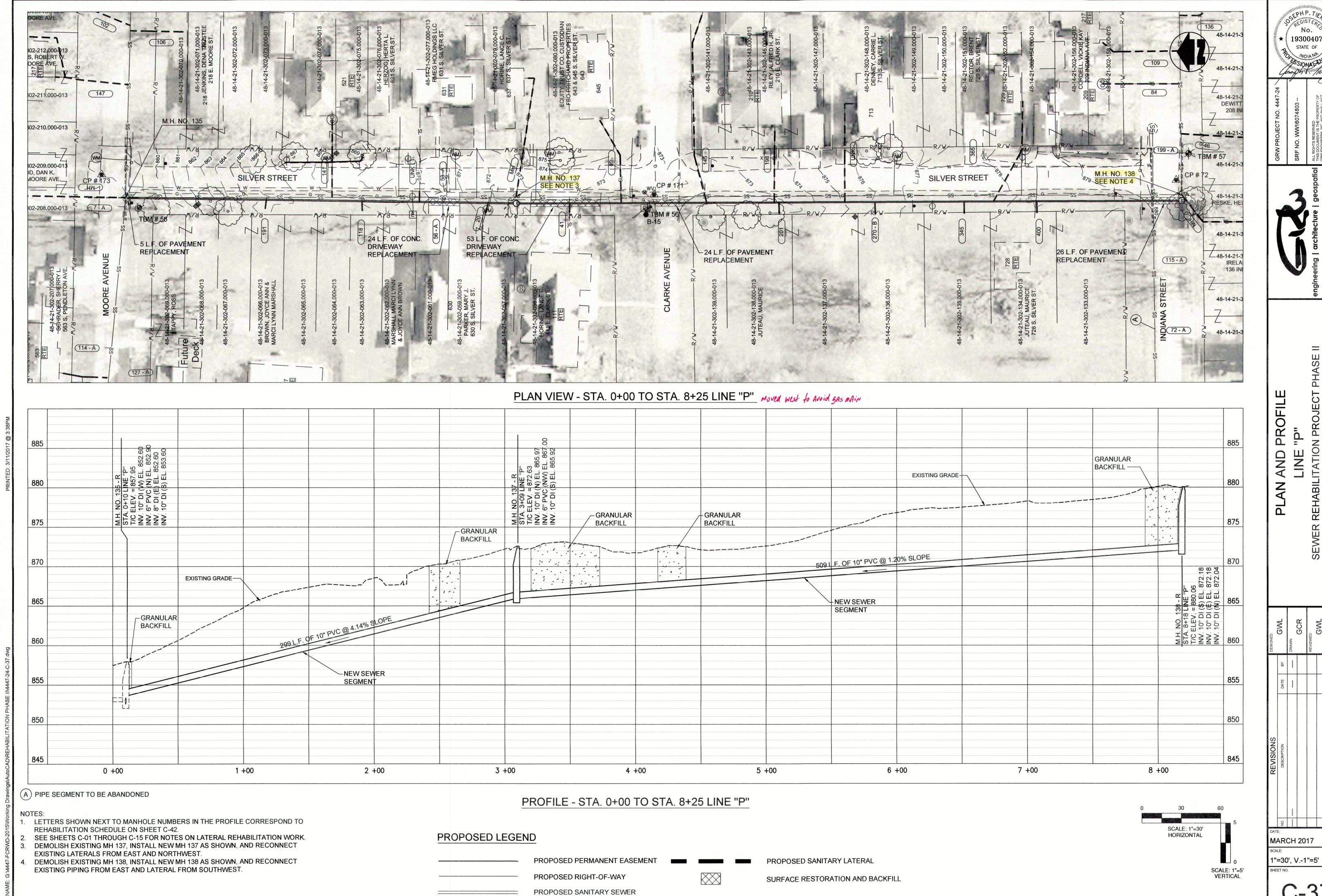
PROFILE - STA. 0+00 TO STA. 1+20 LINE "O3"



PLAN AI LINE "O2" SEWER REHABILITA TOWN OF PEI

GCR

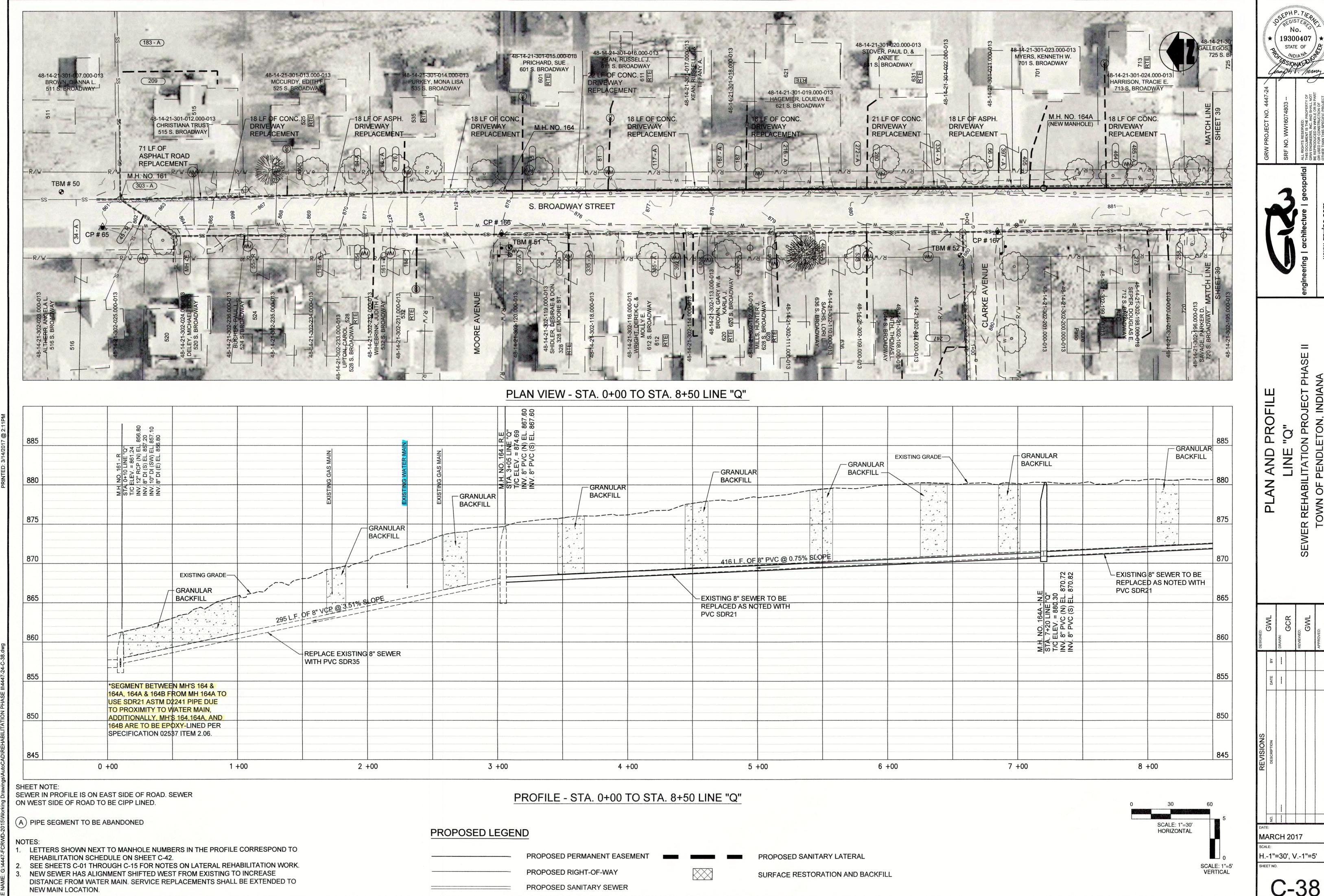
MARCH 2017 H.-1"=30', V.-1"=5'



SEWER REHABILITA TOWN OF PE

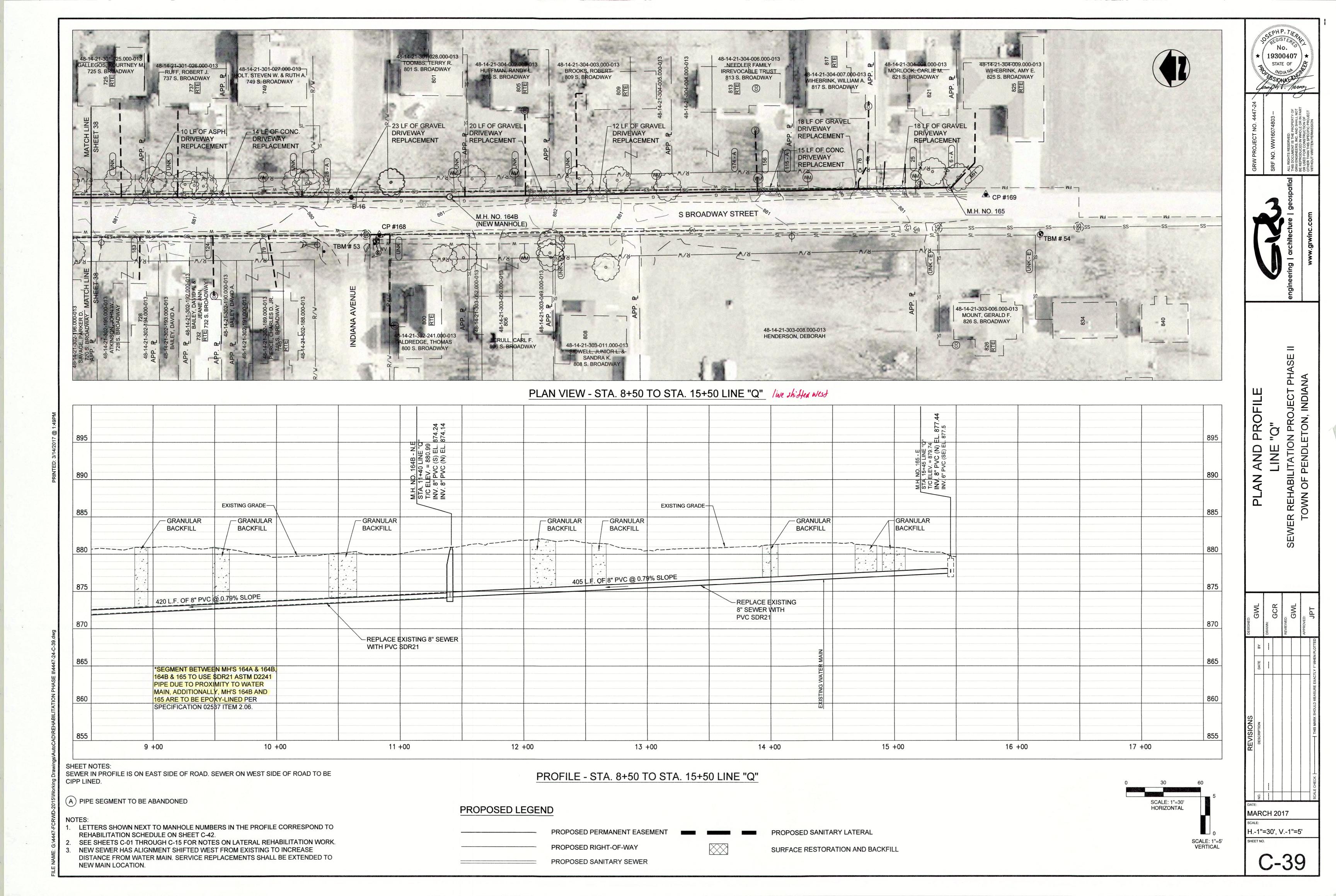
GCR

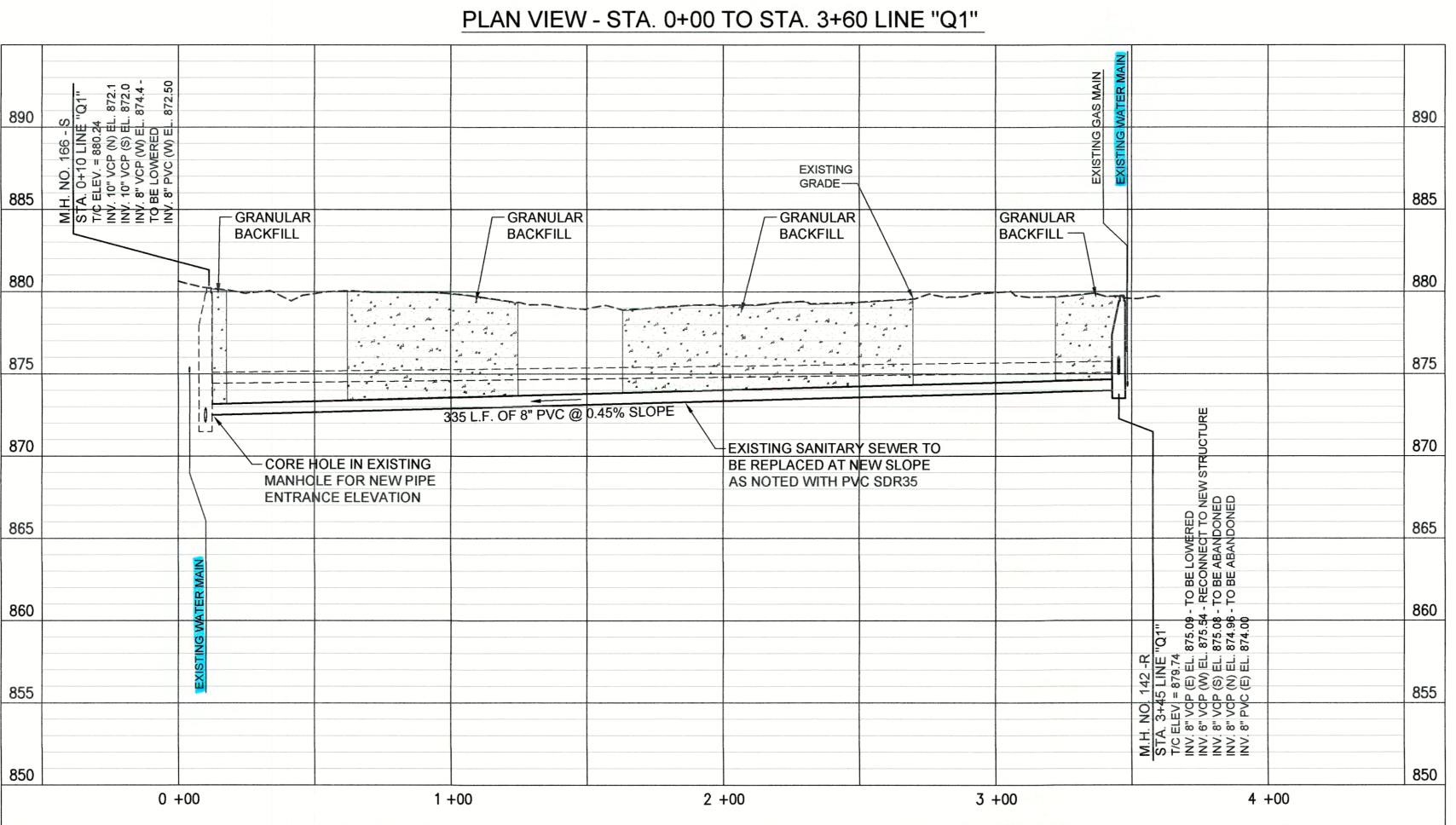
MARCH 2017



MARCH 2017

H.-1"=30', V.-1"=5'





PROFILE - STA. 0+00 TO STA. 3+60 LINE "Q1"

PROPOSED SANITARY SEWER

A PIPE SEGMENT TO BE ABANDONED	
NOTES:	

1. LETTERS SHOWN NEXT TO MANHOLE NUMBERS IN THE PROFILE CORRESPOND TO REHABILITATION SCHEDULE ON SHEET C-42.

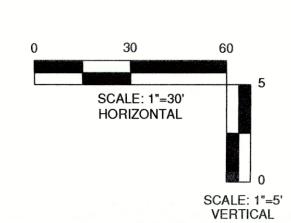
2. SEE SHEETS C-01 THROUGH C-15 FOR NOTES ON LATERAL REHABILITATION WORK.

PROPOSED PERMANENT EASEMENT
PROPOSED RIGHT-OF-WAY

PROPOSED LEGEND

SURFACE RESTORATION AND BACKFILL

PROPOSED SANITARY LATERAL



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THIS SPECIFIC PROJECT
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PLAN AND PROFILE

LINE "Q1"

SEWER REHABILITATION PROJECT PHASE II

TOWN OF PENDLETON, INDIANA

DATE BY

---
BRAWN:

GCR

REVIEWED:

GWL

APPROVED:

JPT

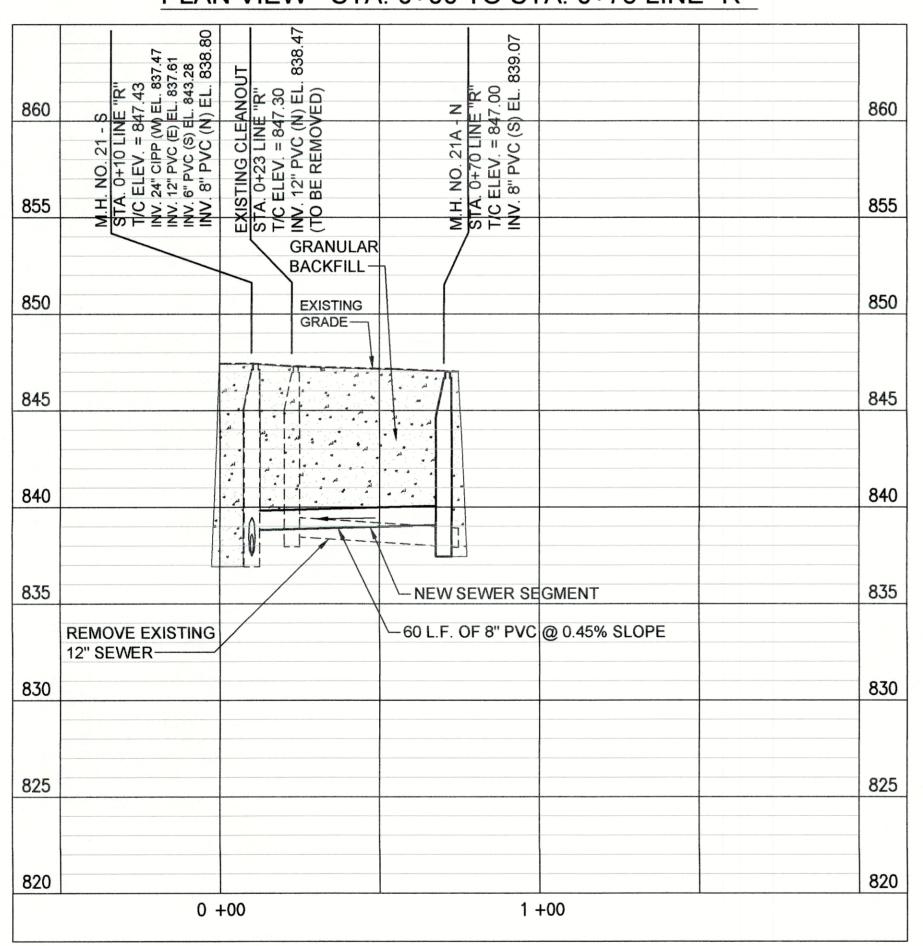
MARCH 2017

SCALE:

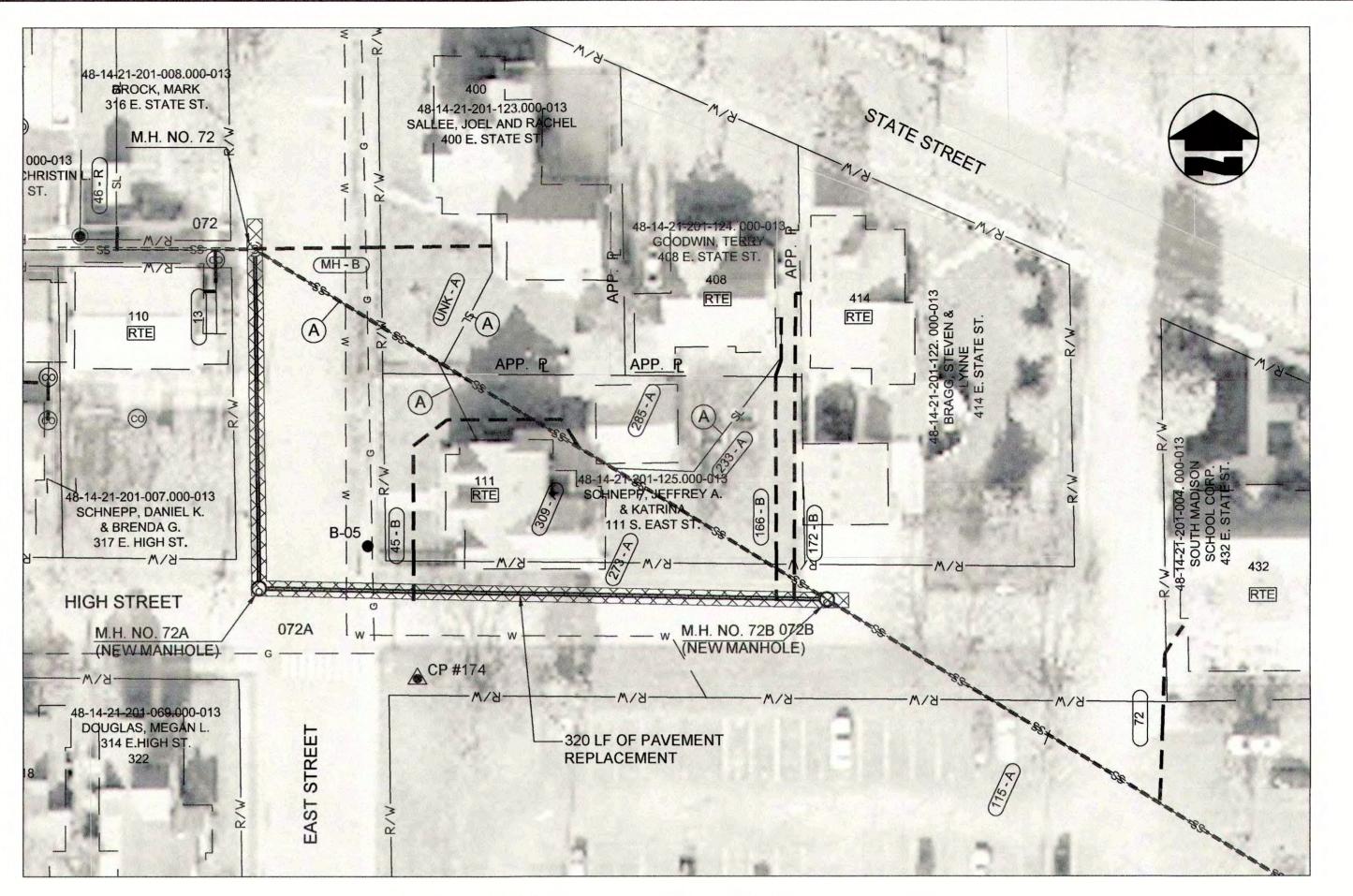
H.-1"=30', V.-1"=5'

H.-1"=30', V.-1"=5'

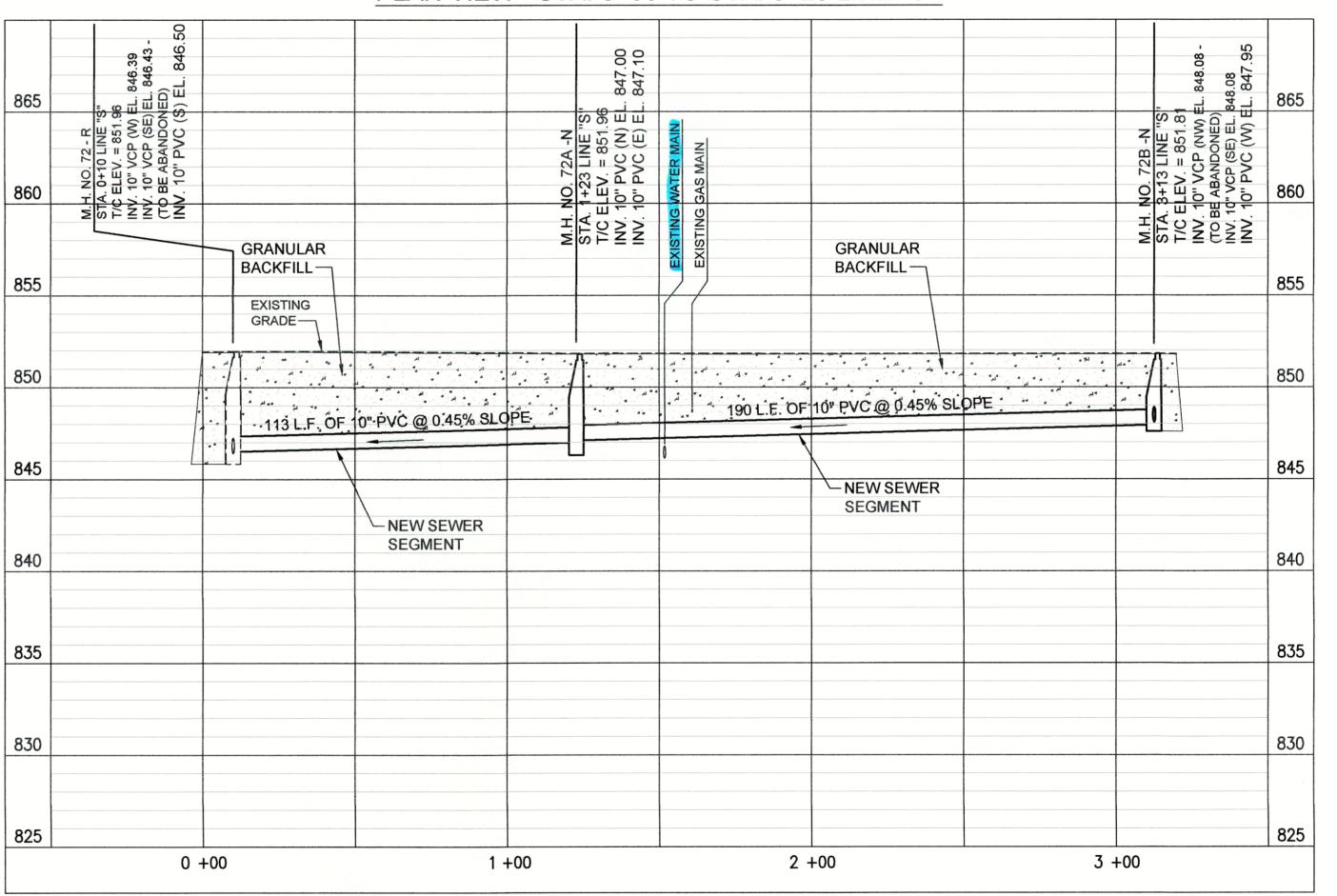
### PLAN VIEW - STA. 0+00 TO STA. 0+75 LINE "R"



PROFILE - STA. 0+00 TO STA. 0+75 LINE "R"



PLAN VIEW - STA. 0+00 TO STA. 3+20 LINE "S"



PROFILE - STA. 0+00 TO STA. 3+20 LINE "S"

(A) PIPE SEGMENT TO BE ABANDONED

LETTERS SHOWN NEXT TO MANHOLE NUMBERS IN THE PROFILE CORRESPOND TO REHABILITATION SCHEDULE ON SHEET C-42.

SEE SHEETS C-01 THROUGH C-15 FOR NOTES ON LATERAL REHABILITATION WORK.

PROPOSED LEGEND

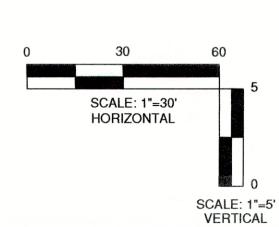
PROPOSED PERMANENT EASEMENT

PROPOSED RIGHT-OF-WAY

PROPOSED SANITARY SEWER

SURFACE RESTORATION AND BACKFILL

PROPOSED SANITARY LATERAL



**★** 19300407

PLAN AI
LINE "R"
SEWER REHABILITA
TOWN OF PEI

MARCH 2017 H.-1"=30', V.-1"=5'

	SANITARY MANHOLE REHABILITATION SCHEDULE					
602-8 003-8 All on MillRd 004)-5 005-5 005-A-E  F.M. from lodge No Number-E	MANHOLE NUMBERS	APPROX. MANHOLE DEPTH (FT.)	SURFACE TYPE ++	MANHOLE CONSTRUCTION +++	CODE	
005 + 5	(000)	<del>+</del> 6	P	PC	S	
005A-E	(001A)	6	P	PC	S	
003)1.	(014)	9	Р	PC	S	
Les lodge Maduraber + F.	(014A)	5	P	PC	N	
F.M. FROM 100 Mg NO NUMBER	015	5	P P	PC	A	
	(015A)	4	P	PC	N,E	
	016	3	V	PC	A	
	(016A)	8	P	PC	N	
	(017)	 5	P	В	R	
		6	P	В		
	(020) (020A)	7	P	В	R	
		The second secon	-		R	
	New OOF 11 lid	10	P	PC	S	
	(021Å)	10	Р	PC	N	
	(027)	5	P	PC	S	
	048)	8	Y	PC	S	
	049	5	Y	PC	S	
	050	5	Y	PC	S	
	052	7	Υ	PC	S	
	053	7	Υ	PC	S	
	054	5	Υ	PC	S	
	(055)	3	Υ	PC	S	
	(056)	5	Р	В	Е	
	058	3	Р	В.	E	
	059	2	Р	DE 8	SE	
	(062)	5	G	PC	Е	
	(063)	4	G	В	Е	
	(065)	6	P	В	<b>X</b> ,E	
	(066)	6	P	В	E	
	(067)	6	P	В	E	
	(068)	4	P	PC	S	
	069	4	P	PC	E	
1. 11. 24.	069A	5	P .	В	R	
doesn't exist ->	070	5	P	В	<b>X</b> ,E	
	071)	4	P	PC	E	
		4	P			
This is NOW AN 8" clean	071A	5	P	PC.	Æ.	
	(072)			B	R	
	(072A)	6	Р	PC	N	
	(072B)	4	Р	PC	N	
	073	5	Y	PC	S	
# (73A-2) discovered (school track)	(073A)	6	Y	PC	S	
	073B		Р	PC	S	
	0730		Р	PC	S	
	074	4	Υ	PC	S	
whole still in place-not in use -> sched off at MH#74	<del>- 075</del>	5	Υ	PC	S	
cked off at MH#74		4	Y	В	<b>X</b> ,E	
	076A	4	Р	В	<b>Ж</b> ,E	
	080	5	Р	PC	S	
	081)	5	Р	В	KE	
	New c 082/1:d	7	Р	В	*E	
	083	5	Р	PC	S	
	(084)	7	Р	PC	S	
	(085)	5	Р	PC	S	
	New (086) 9/1:1	6	Р	В	XE	
	New CASE lid	4	P	В	RE	
	OS9)	7	P	PC	E	
	(090)	6	P	В	XE	
	(091)	9	P	PC	S	
	091) 091A 7	5	P	PC	N	
doesn't exist >	(091B)	4	P	PC	N	
	(O)TD/	- Carallana	1	1	IN	
	MANHOLE REHABI	LITATION CODES				

MANHOLE NUMBERS	APPROX. MANHOLE DEPTH (FT.) +	SURFACE TYPE	MANHOLE CONSTRUCTION +++	REHABILITATION CODE
(092)	7	P	PC	S
(093)	5	P	В .	E
(093A)	8	P	PC	N,E
(093B)	6	P	PC	N,E
(094)	5	Y	В	E
(095)	5	Y	PC	S
(096)	15	Р	PC	E
(096A)	12	P	PC	N,E
097	6	Р	PC	S
(098)	6	Р	PC	S
(099)	12	Р	PC	E
(099A)	15	Υ	PC	N
(099В)	8	Υ	PC	N
(0990)	8	Υ	PC	N
(099D)	5	Υ	PC	N
100	25	Υ	PC	Α
101	8	Р	PC	S
(102)	5	Y	PC	S
(103)	16	Y	PC	S
(104)	15	P	PC	S
(105)	13	P	PC	S
(105A)	12	P	В .	E
(106)	4	P	В	R
(107)	10	Υ	PC	RE
(107A)	10	Y	PC	N
(107B)	9	Υ	PC	N
(108)	4	Υ	В	R
109	5	P	В	Е
110	4	Y	В	Е
(111)	6	Р	В	E
(112)	6	Р	В	R
(112A)	5	Р	PC	N
112B	6	Р	PC	N
(1120)	5	Р	PC	N,E
(1120)	6 -	Р	PC	N,E
(113)	9	Р	В	E
(114)	4	Р	В	Е
(115)	4	Υ	В	Е
116	4	Υ	В	Е
(117)	3	Υ	В	Е
118	2	Р	В	E
119	8	Y	PC	A
_120	5	Υ	В	A
(120A)	5	Υ	PC	N
121)	4	Р	В	R
(121A)	4	Р	PC	N
122)	4	Р	PC	S,B
V CASTALLI'I	5	Y	В	E,B
w castal//id	4	G	В	E,B
124A	6	Р	PC	S
125	4	Р	В	Е
126	4	Р	В	E
(128)	6	Р	В	E,B
129	4	Р	В	E,B
N CAST 30 /1	4	Y	В	E
131	4	Р	В	Α
132	7	Р	PC	S
133	6	Р	PC	S
(133A)	, <b>- 7</b>	Р	PC	R
(134)	7	Υ	В	EX

MANHOLE NUMBERS	APPROX. MANHOLE DEPTH (FT.)	SURFACE TYPE	MANHOLE CONSTRUCTION +++	REHABILITATION CODE	
(135)	<del>+</del> 5	P	В	R	_
(27)	6	Y	В	R	
10 CA (38) 1:d	7	Р	В	EX	(1.11 128:11
137) New Cast 138) Iid 139)	5	Р	В	E,B	- Added (38A) (left 138 in pla
New Cald //id	6	Р	В	E,B	
(141)	5	Р	PC	S	- 1/1 · · · · · · · · · · · · · · · · · ·
(142)	4	Р	PC	R	-
(143)	5	G	PC	S	
vencaria //id	7	Р	В	E	
New calas/lid	4	Р	В	Е	
146	5	G	В	R	
(146A)	7	Υ	PC	N	
(146B)	5	Y	PC	N	
(146Č)	6	Y	PC	N	
(146D)	5	Υ	PC	N	
147	4	Υ	В	Α	
148	4	Р	В	A	
149	6	Υ	В	R	
(150)	6	Υ	В	R	
151	6	Υ	В	R	
152	7	P	PC	S	
(153)	7	Р	PC	S	_
154	4	Р	PC	S	
155	9	Р	В	X,E	
(156)	6	Y	В	<b>Ж</b> ,Е	
157	4	Y	B	E,C	
158	5 4	P P	PC B	S	
159 160	3	G	В	E O V	
(161)	4	<u> </u>	_B_	R KB	_
(162)	5	Y	PC	S	<u>'</u>
(163)	5	Y	В	R	Added MH# (63A) At Moore &
(164)	6	Y	В	R,E	MARKET WITH WEST HIS MINES
(164A)	10	Y	PC	N,E	
(164B)	7	Y	PC	N,E	
(165)	2	Y	PC	E	_
(166)	7	Р	PC	S	
(167)	5	Р	PC	S	
168	4	P	В	R,E	deleted
(168A)	3	Р	PC	R,E	19 ( ) T
(170)	6	Р	PC	E	
170A	5	Υ	PC	S	1
171	4	Р	PC	E	
172	4	Р	PC	E	
173	4	Р	В	, <b>K</b> ,E	
174	5	Υ	В	E	
175	4	Р	В	<b>X</b> ,E	
176	2	Р	PC	S	
177	2	Р	PC	S	
(78)	2	Р	PC	S	
180	5	Y	PC	E	
181)	8	Y	PC	E	
181A)	5	Y	PC	S	
(181B)	3	Р	PC	SE	
(82)	6	Р	PC	E	
183	6	Р	В	E,B	
184)	4	Р	В	E	
217A	7	Р	PC	S	
(217B)	5	P	PC	S	

MANHOLE REHABILITATION SCHEDULE
SANITARY SEWER REHABILITATION
SEWER REHABILITATION PROJECT PHASE II
TOWN OF PENDLETON, INDIANA

MARCH 2017

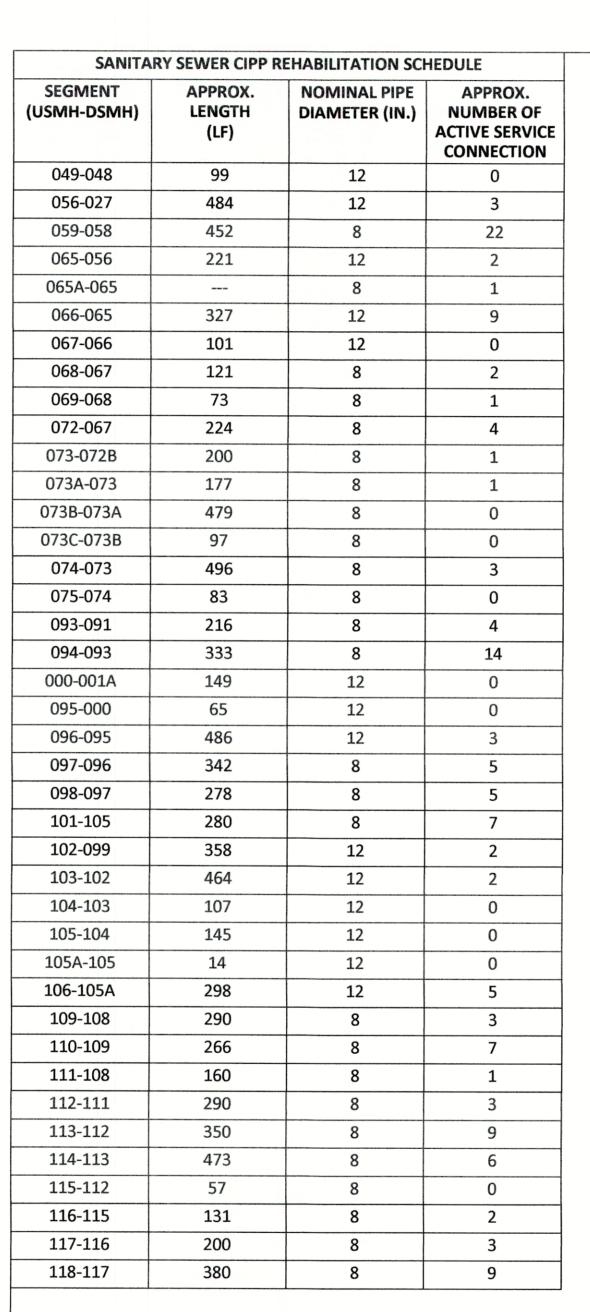
+ VERTICAL DEPTH MEASURED FROM TOP OF CASTING TO INVERT AT BENCH

++ P = PAVED (ASPHALT OR CONCRETE); Y = YARD (GRASS OR FIELD); G = GRAVEL

+++ PC = PRECAST CONCRETE; B = BRICK OR BLOCK; PC/B = COMBINATION THEREOF

\* IF EXISTING MANHOLE IS BRICK, A FULL CEMENTITIOUS LINER IS REQUIRED IN ADDITION TO THE EPOXY LINER.

- "R" = REPLACE EXISTING STRUCTURE WITH NEW PRECAST CONCRETE MH
- "E" = FULL EPOXY INTERIOR MANHOLE LINING\*
- "S" = GROUT LEAKS, PATCH DEFECTS, APPLY SEALANT TO ALL JOINTS
- "N" = NEW MANHOLE BEING ADDED



USMH - UPSTREAM MANHOLE ALONG LINE SEGMENT
DSMH - DOWNSTREAM MANHOLE ALONG LINE SEGMENT
\*ACCESS AT SOUTH END BY CLEANOUT ONLY

	SANITARY SEWER CIPP REHABILITATION SCHEDULE						
SEGMENT (USMH-DSMH)	APPROX. LENGTH (LF)	NOMINAL PIPE DIAMETER (IN.)	APPROX. NUMBER OF ACTIVE SERVICE CONNECTION				
122-121A	30	8	0				
123-122	184	8	3				
124-123	404	10	5				
124A-124	141	8	0				
124A-132	27	10	0				
125-124A	99	10	1				
126-125	200	10	2				
128-126	192	10	0				
129-128	361	10	6				
130-129	296	8	5				
132-133	286	10	4				
133-134	326	10	3				
135-132	196	8	1				
139-135	235	8	4				
140-139	60	8	1				
141-140	268	8	6				
143-144	212	8	3				
144-138	292	10	5				
145-144	171	10	2				
149-134	202	12	1				
152-149	249	12	2				
157-156	175	8	5				
159-158	73	12	0				
160-159	459	8	10				
161-159	431	12	4				
162-161	309	8	4				
163-161	50	10	1				
166-163	606	10	8				
167-166	415	10	5				
173-175	29	8	0				
174-173	186	8	4				
176-180	177	8	0				
177-176	250	8	1				
178-177	105	10	0				
181-180	201	8	3				
181A-181	218	8	0				
181B-181A	222	8	2				
182-181	204	8	2				
183-182	330	8	1				
184-183	327	8	2				

USMH - UPSTREAM MANHOLE ALONG LINE SEGMENT
DSMH - DOWNSTREAM MANHOLE ALONG LINE SEGMENT

NOTE: ADDITIONAL CIPP SEGMENTS COMPLETED AS NOTED PER BID ALTERNATE No.

19300407

STATE OF

NOIANA GIVEN

SIONAL STATE

SONAL STATE

SONA

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C.I.P.P. REHABILITATION SCHEDULE
SANITARY SEWER REHABILITATION
SEWER REHABILITATION PROJECT PHASE II
TOWN OF PENDLETON, INDIANA

REVISIONS

DESCRIPTION

DATE BY GWL

CONTINUE

DESCRIPTION

DATE BY GWL

GCR

GCR

JPT

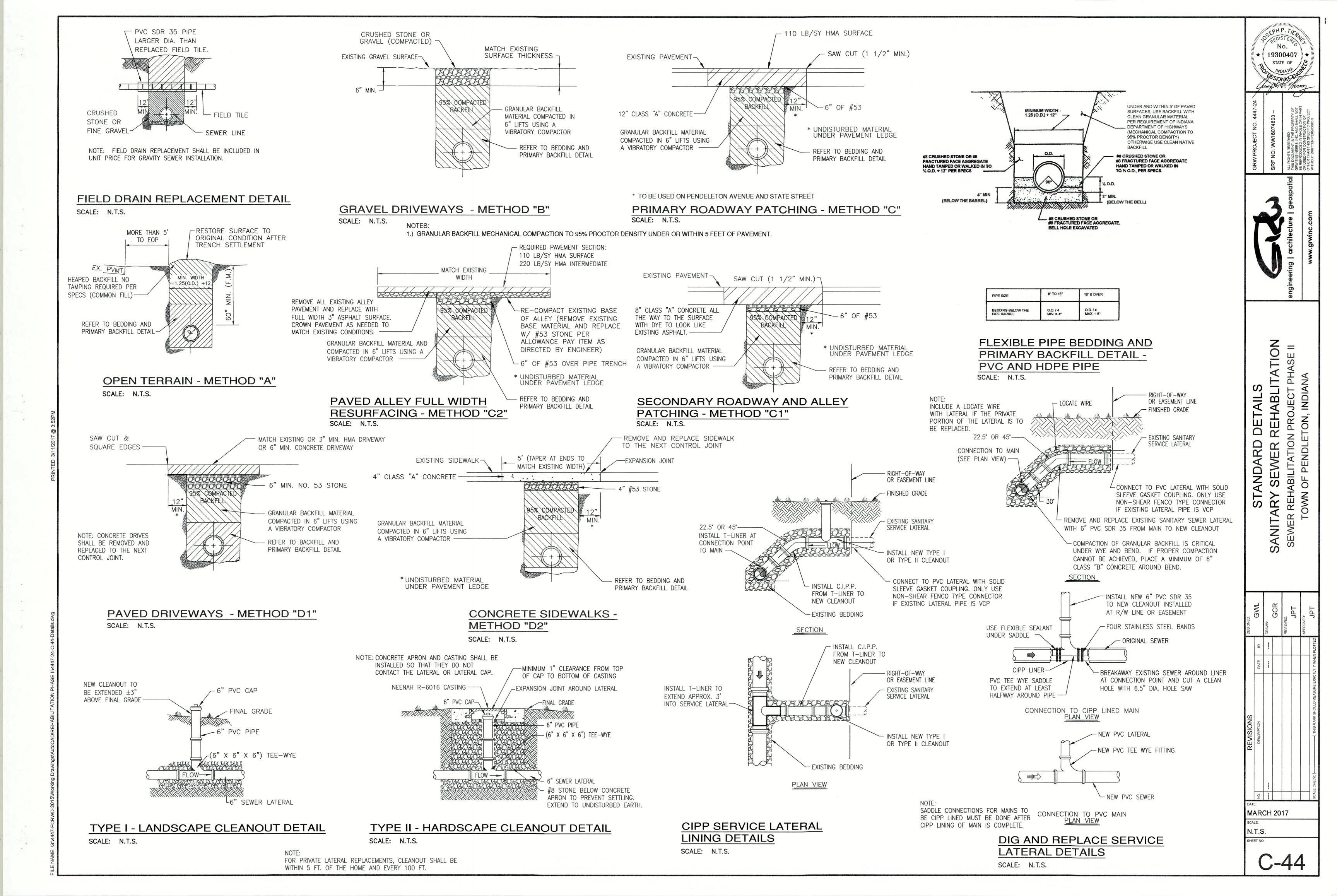
APPROVED:

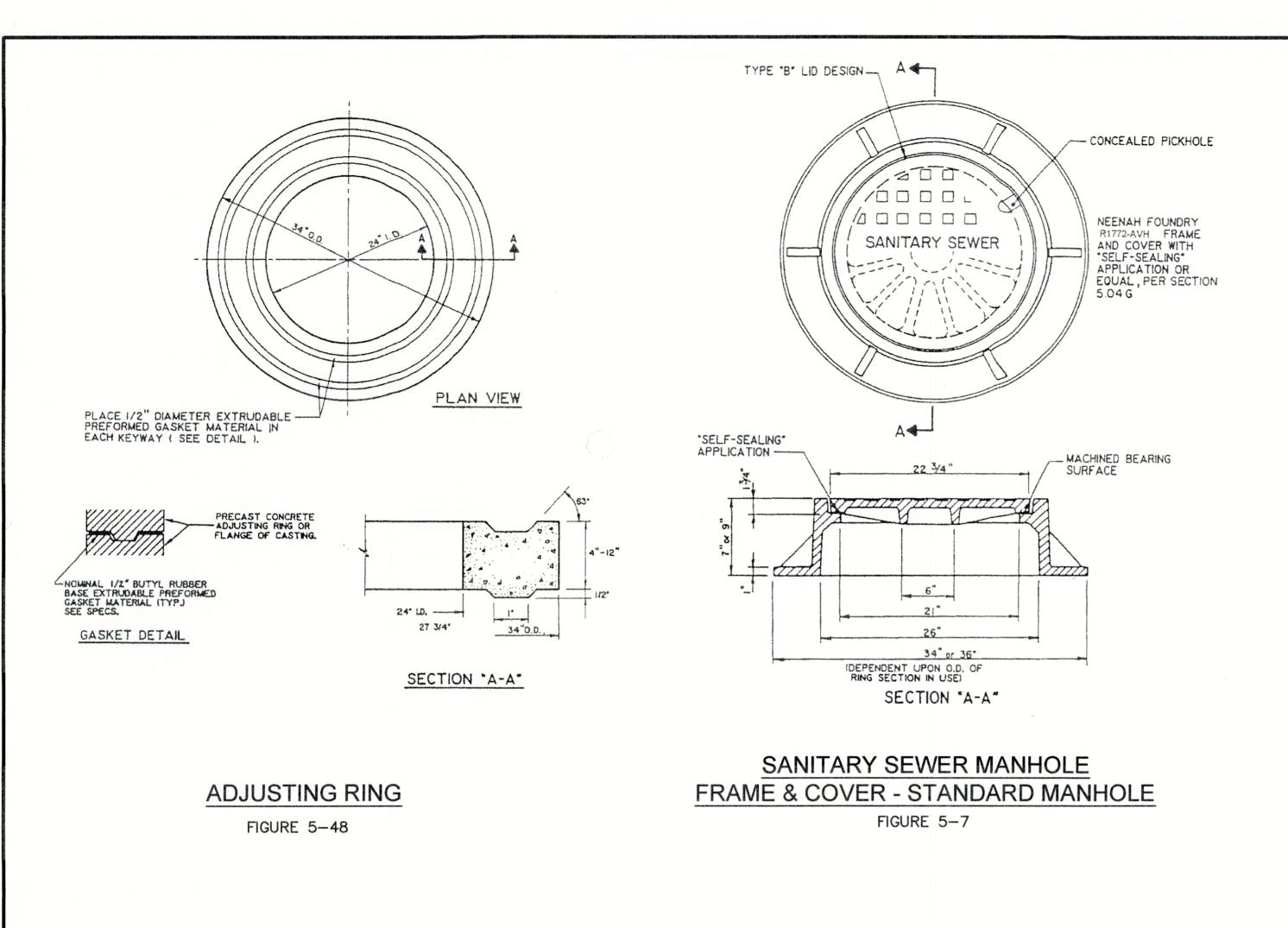
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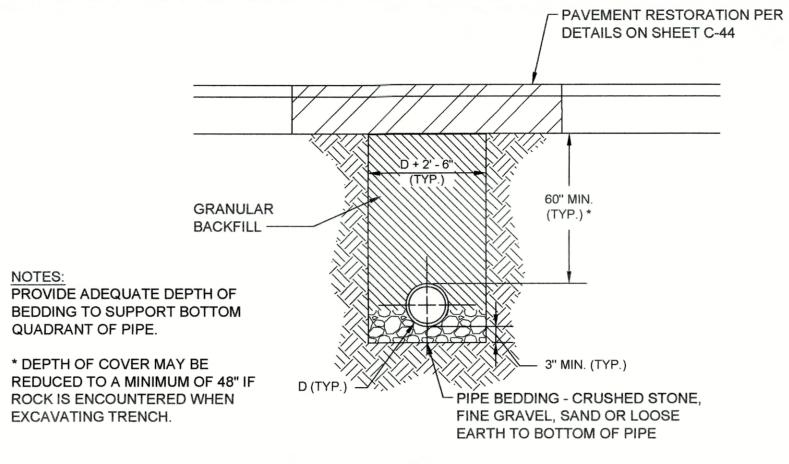
JPT

JPT

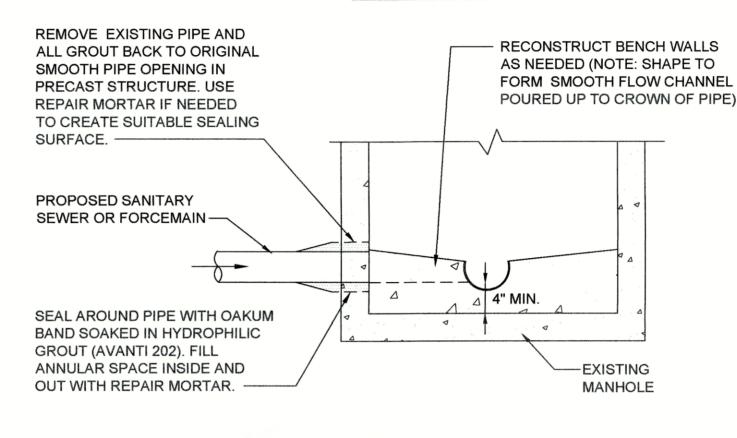
MARCH 2017
SCALE:
NONE





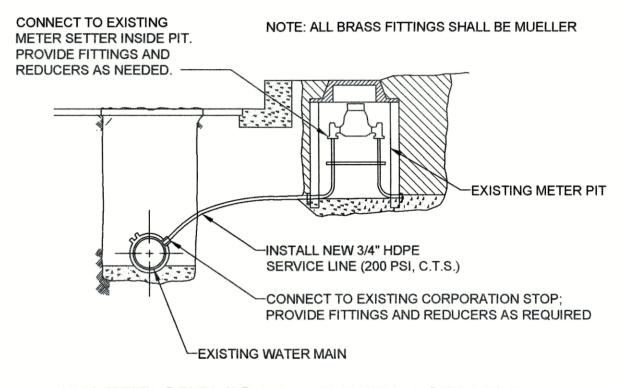


### WATER MAIN TRENCH DETAIL -IN PAVED AREA



#### SEWER POINT REPAIR NOTES (IF REQUIRED & APPROVED BY OWNER):

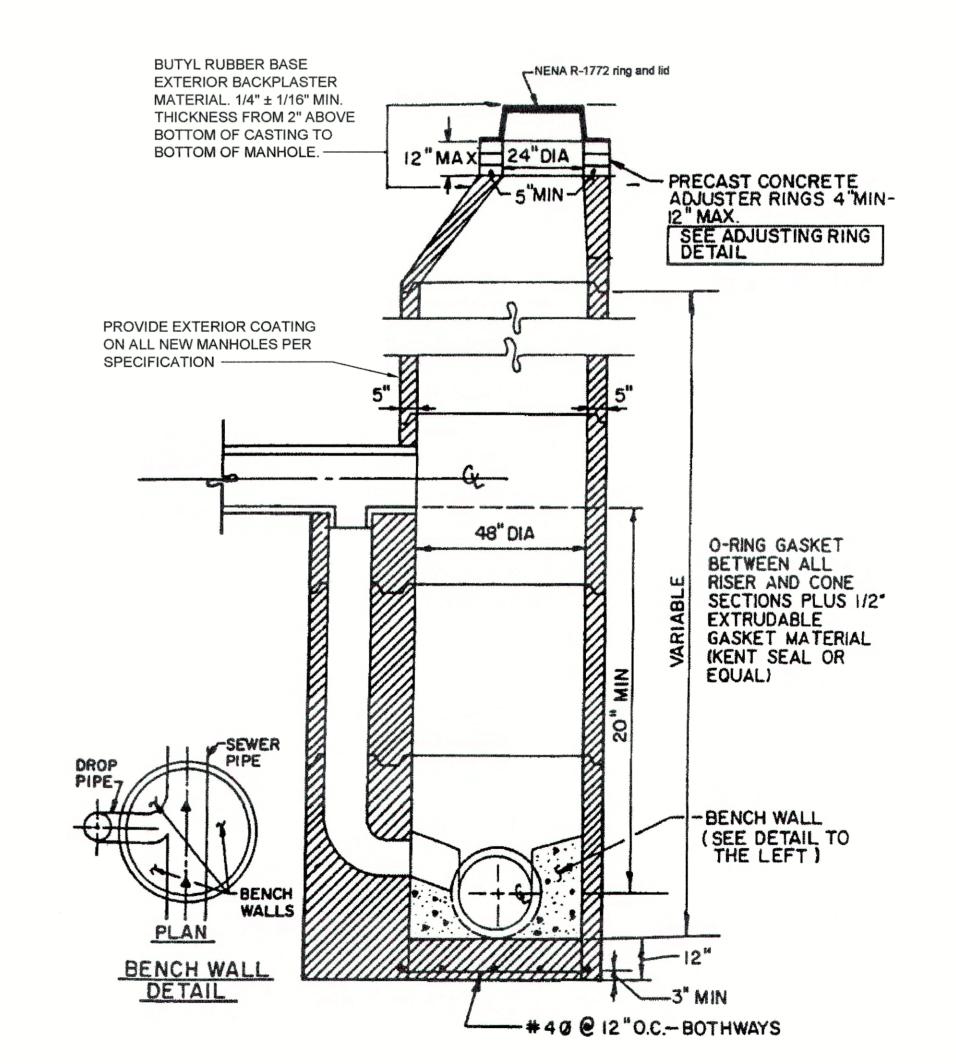
- 1. PRIOR TO CIPP INSTALLATION, CONTRACTOR SHALL PERFORM DIG-UP & REPLACE POINT REPAIR WITH NEW PVC SDR-35 PIPE CONFORMING TO A.S.T.M. D3034 WITH A.S.T.M. 3212 BELL AND SPIGOT RUBBER GASKETED JOINTS. POINT REPAIR SHALL EXTEND A MINIMUM OF ONE FULL PIPE JOINT BEYOND EITHER SIDE OF REPAIR LOCATION, NOT TO EXCEED 10FT. TOTAL LENGTH. JOIN NEW PIPE SECTION WITH EXISTING PIPE USING NON-SHEAR TYPE FERNCO COMPRESSION COUPLINGS; OR EQUAL, MEETING THE REQUIREMENTS OF A.S.T.M. C425 AND SUITABLE FOR THE SERVICE IN WHICH IT IS INTENDED. BANDS SHALL BE SERIES 300 STAINLESS STEEL CONFORMING TO A.S.T.M. A240.
- 2. REFER TO DETAILS ON SHEET C-44 FOR PIPE BEDDING, BACKFILL. AND SURFACE RESTORATION REQUIREMENTS.
- 3. SHOULD SEWER POINT REPAIR VARY SIGNIFICANTLY FROM DESCRIPTION ABOVE, ITEM SHALL BE NEGOTIATED THROUGH THE CHANGE ORDER PROCESS.



### **EXISTING MANHOLE CONNECTION DETAIL**

**EXISTING UTILITY** 

## WATER SERVICE LINE REPLACEMENT



STANDARD DROP MANHOLE

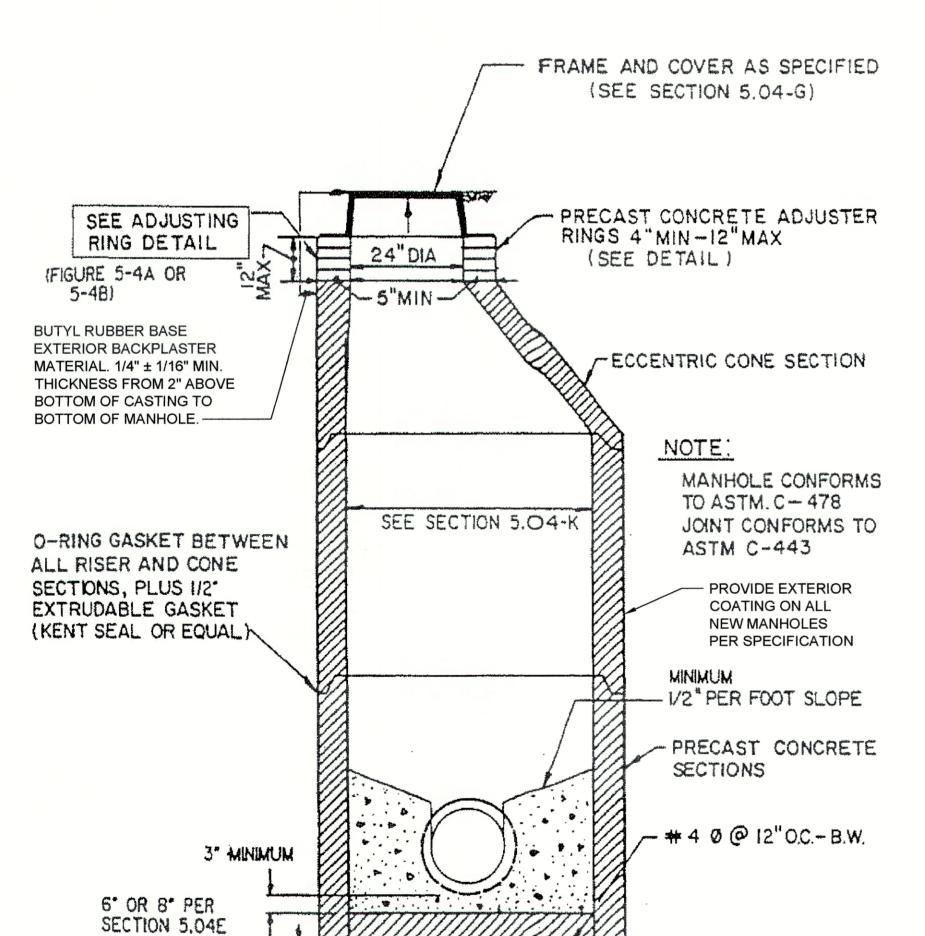
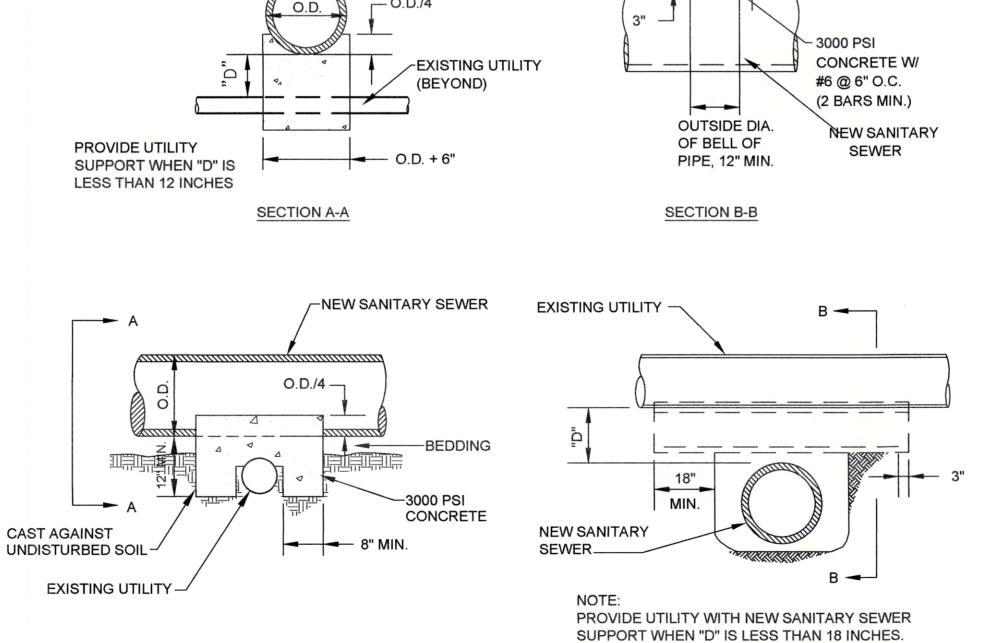


FIGURE 5-1



-NEW SANITARY

SEWER

NOTE: EXISTING UTILITIES SHALL MEAN: STEEL GAS MAINS, ELECTRIC/TELEPHONE CONDUITS, FIBER OPTIC BANKS, STORM SEWER PIPING, WATER MAIN PIPING, ETC...

STANDARD MANHOLE FOR PIPE SIZES 8" - 24" (STRAIGHT THRU)

**CONCRETE CRADLE - DETAILS** 

C-45

STANDA ARY SEW REHABILITA OWN OF PE

**\*** 19300407 STATE OF

MARCH 2017 N.T.S.

#### **EROSION CONTROL NOTES**

DURING ALL PHASES OF CONSTRUCTION THE SITE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL EXERCISE MEASURES TO PREVENT THE EROSION OF SOILS DUE TO THE ACTION OF WATER AND WIND. THE CONTRACTORS SHALL USE THE FOLLOWING MEASURES TO ACCOMPLISH THIS OBJECTIVE:

#### A. SURFACE PROTECTION

- CLEARING SHALL BE LIMITED SO AS TO EXPOSE THE SMALLEST POSSIBLE AREA OF LAND FOR THE SHORTEST POSSIBLE TIME.
- 2. EXPOSED AREAS SHALL BE IMMEDIATELY GRADED AND PROTECTED WITH TEMPORARY OR PERMANENT COVER, SUCH AS SOD, SEED AND MULCH, CROWN VETCH, LESPEDEZA OR CREEPER. NEWLY GRADED CHANNELS OR STEEP SLOPES WILL REQUIRE THE USE OF FIBROUS MATTING, NETTING OF SEEDED AND MULCHED AREAS, OR THE STAKING OR SHINGLING OF SOD WHILE VEGETATION IS BECOMING ESTABLISED.
- B. RUN-OFF CONTROL
   1. LONG AND/OR STEEP SLOPES WILL REQUIRE CONTOUR AND FURROWING, OR BERMS TO REDUCE

#### C. SEDIMENT TRAPPING

RUN-OFF VELOCITIES.

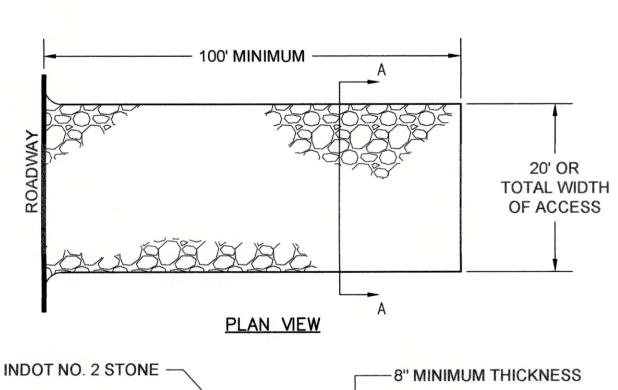
- THE TRAPPING OF ERODED PARTICLES WILL BE ACCOMPLISHED BY THE DIVERSION OF RUN-OFF TO SEDIMENT BASINS, EXCAVATION TRAPS, BERMS, STAKED HAY BALES, OR FLOATING SILT CURTAINS.
- 2. THE PROPOSED RETENTION AND/OR DETENTION POND(S) ALONG WITH ANY ENVIRONMENTAL BERM(S)/REAR YARD SWALE(S) SHALL BE CONSTRUCTED FIRST. THE POND(S) AND OUTFALL STRUCTURE(S) MUST BE COMPLETE AND OPERATIONAL PRIOR TO THE PLACEMENT OF ANY IMPERVIOUS SURFACE.
- 3. TRAPPING DEVICES SHALL BE PERIODICALLY INSPECTED DURING DRY PERIODS AND AFTER EACH RAINFALL EVENT BY THE SITE CONTRACTOR. TRAPPING DEVICES SHALL BE REPLACED IF DETERMINED TO BE INCAPABLE OF PERFORMING INTENDED FUNCTION OF SEDIMENT TRAPPING.
- 4. TRAPPING DEVICES SHALL REMAIN IN PLACE UNTIL A VEGETATIVE COVER HAS ESTABLISHED SUFFICIENTLY TO STABILIZE THE SOILS AND PREVENT EROSION.

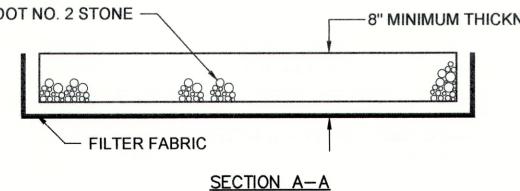
#### D. SOIL MOISTURE

 THE CONTRACTOR SHALL HAVE AVAILABLE ON THE CONSTRUCTION SITE A WATER SOURCE CAPABLE OF APPLYING WATER TO DRY EXPOSED SOIL IN ORDER TO PREVENT WIND EROSION. THE APPLICATION RATE AND MANNER SHALL BE SUCH THAT SOIL MOISTURE IS ATTAINED AND NO SURFACE RUN-OFF IS CREATED.

#### E. RESPONSIBILITY

 THE CONTRACTOR SHALL BE HELD RESPONSIBLE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED. AFTER THAT, THE OWNER WILL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER COLLECTION AND DETENTION SYSTEM.

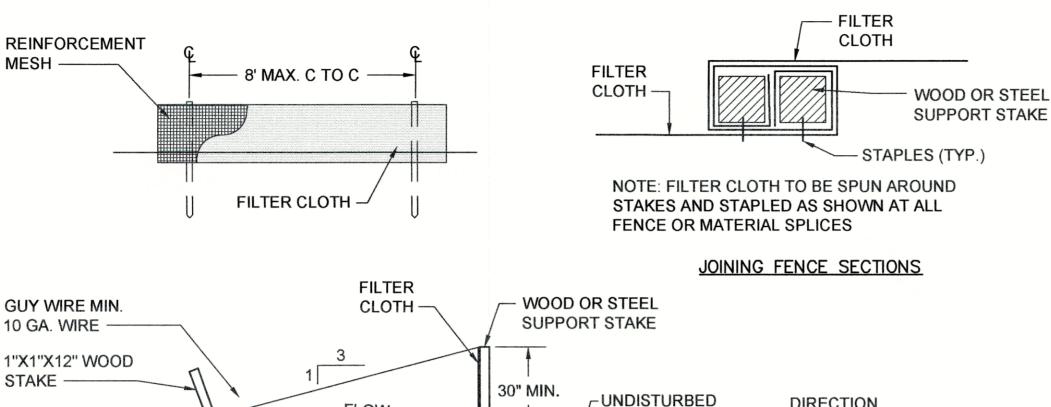




MAINTENANCE: THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE SHOWN ON THE PLAN. THE ENTRANCE SHALL BE INSPECTED WEEKLY AND ADDITIONAL INDOT NO. 2 STONE STONE SHALL BE KEPT ON SITE SO THAT THE MINIMUM DIMENSIONS CAN BE MAINTAINED THROUGHOUT THE PROJECT. SEDIMENT TRACKED ONTO A PUBLIC ROADWAY SHALL BE REMOVED AT THE END OF EACH CONSTRUCTION DAY AND PLACED ON THE TOPSOIL STOCKPILE. NO OTHER ENTRANCE SHALL BE USED TO GAIN ACCESS TO THE SITE BY ANY CONSTRUCTION, PERSONAL OR DELIVERY VEHICLES.

### ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



GUY WIRE MIN.
10 GA. WIRE

1"X1"X12" WOOD
STAKE

1"X1" WIN.

1

DETAILS - FILTER FABRIC FENCE

— 10' MIN. — -NOTES: . . . . . . 1. ACTUAL LAYOUT AND -STAKES (TYP) LOCATION TO BE DETERMINED IN FIELD - 10 MIL (MIN.) PLASTIC LINER 10' MIN. 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED STRAW BALES, WITHIN 30 FT. OF THE CONCRETE BLOCKS, TEMPORARY CONCRETE SANDBAGS, ETC. WASHOUT FACILITY. . . . . . . . . <u>PLAN</u> STAPLES (2 PER BALE) 10 MIL (MIN.) BINDING WIRE PLASTIC LINER STRAW BALES PLASTIC LINER NATIVE MATERIAL **GRADE** (OPTIONAL) WOOD OR METAL STAKES

STAPLES (2
PER BALE)

STAPLE DETAIL

4'-0"

3/4" PLYWOOD
(PAINTED WHITE)

6" HIGH PAINTED
BLACK LETTERING

1/2" LAG SCREW
(TYP.)

4x4 WOOD POST
(TYP.)

GRADE

SIGN DETAIL

DETAILS - CONCRETE WASHOUT

NOT TO SCALE

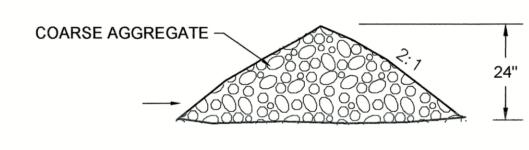
**SECTION** 

6"

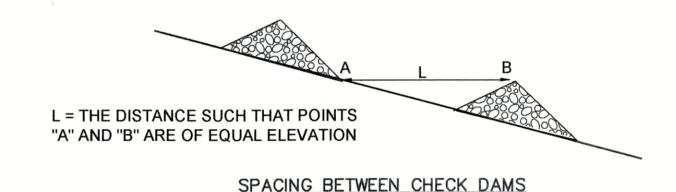
ROCK CHECK DAM

FF-30 FILTER FABRIC FENCE

NOT TO SCALE



STAGGERED FENCE DETAIL

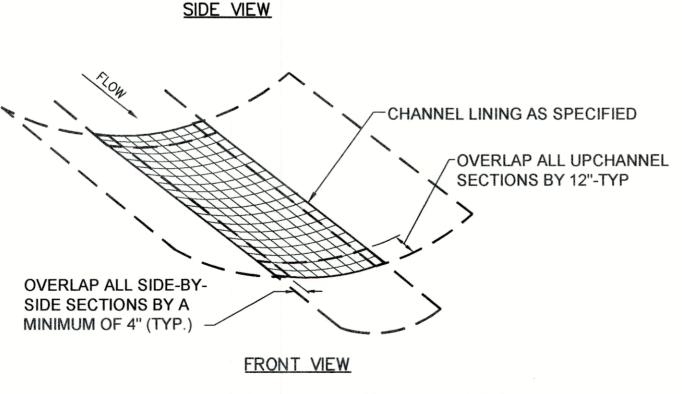


## DETAILS - CHECK DAM

BURY UPCHANNEL END IN VERTICAL
6-INCH SLOT, THEN BACKFILL AND TAMP.

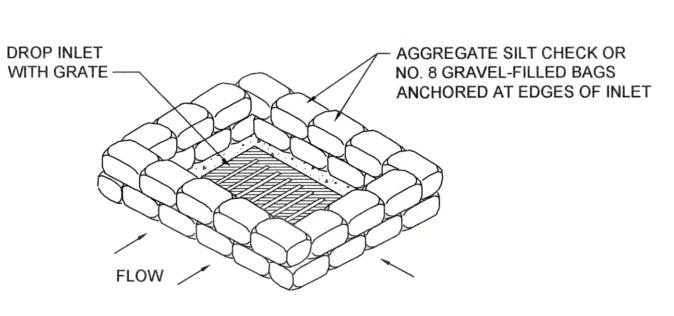
NO. 8 GAGE STEEL WIRE STAPLES, BENT
U-SHAPED WITH THROAT WIDTH OF 1 TO 2
INCHES, WITH DRIVING DEPTH OF NOT LESS
THAN 6 INCHES.

STAPLE PATTERN GUIDE. PLACE STAPLES
IN ACCORDANCE WITH MANUFACTURE'S
RECOMMENDATIONS

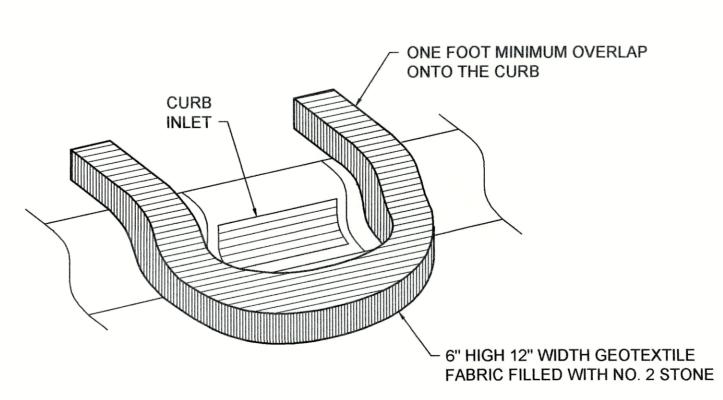


SEEDING TO BE APPLIED PRIOR TO THE INSTALLATION OF BLANKET. CONTRACTOR TO ENSURE A STABLE AND UNIFORM GRASS COVER DEVELOPS IN THE SWALE.

DETAILS - EROSION CONTROL BLANKET INSTALLATION



## DETAIL - INLET SEDIMENT FILTER



DETAIL - INLET PROTECTION

IN EVENT OF A HAZARDOUS SPILL, CONTACT MADISON EMERGENCY MANAGEMENT AGENT: (765) 642-0221

#### **SEASONAL SOIL PROTECTION CHART**

STABILIZATION PRACTICE PERMANENT SEEDING	JAN. FEB.	MAR. APR.	MAY JUN. JUL. *///////////////////////////////	_AUGSEP	OCT. NOV. DEC.
DORMANT SEEDING	В				B
TEMPORARY SEEDING		C	<b>→</b>	D —	<b>→</b>
SODDING		E**	*/////////	/////*	<u> </u>
MULCHING	F				<b>→</b>

- A = INDOT SEED MIXTURE TYPE "R" 170 LBS/ACRE PLUS 2 TONS STRAW MULCH/ACRE.
- B = KENTUCKY BLUEGRASS 60 LBS/ACRE; CREEPING RED FESCUE 60 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE.
- C = INDOT SEED MIXTURE TYPE "T" SPRING OATS 150 LBS/ACRE
- D = INDOT SEED MIXTURE TYPE | SPRING OATS 150 LBS/ACRE
- E = SOD
- F = STRAW MULCH 2 TONS/ACRE
- \*//I//\* IRRIGATION NEEDED DURING JUNE, JULY, AND/OR AUGUST.
- \*\* IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.

SRF NO. WW16074803 -- SRF NO. WW16074803 --

SANITARY SEWER REHABILITA
SEWER REHABILITATION PROJECT PHA

REVISIONS

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

GWL

GCR

GCR

APPROVED:

JPT

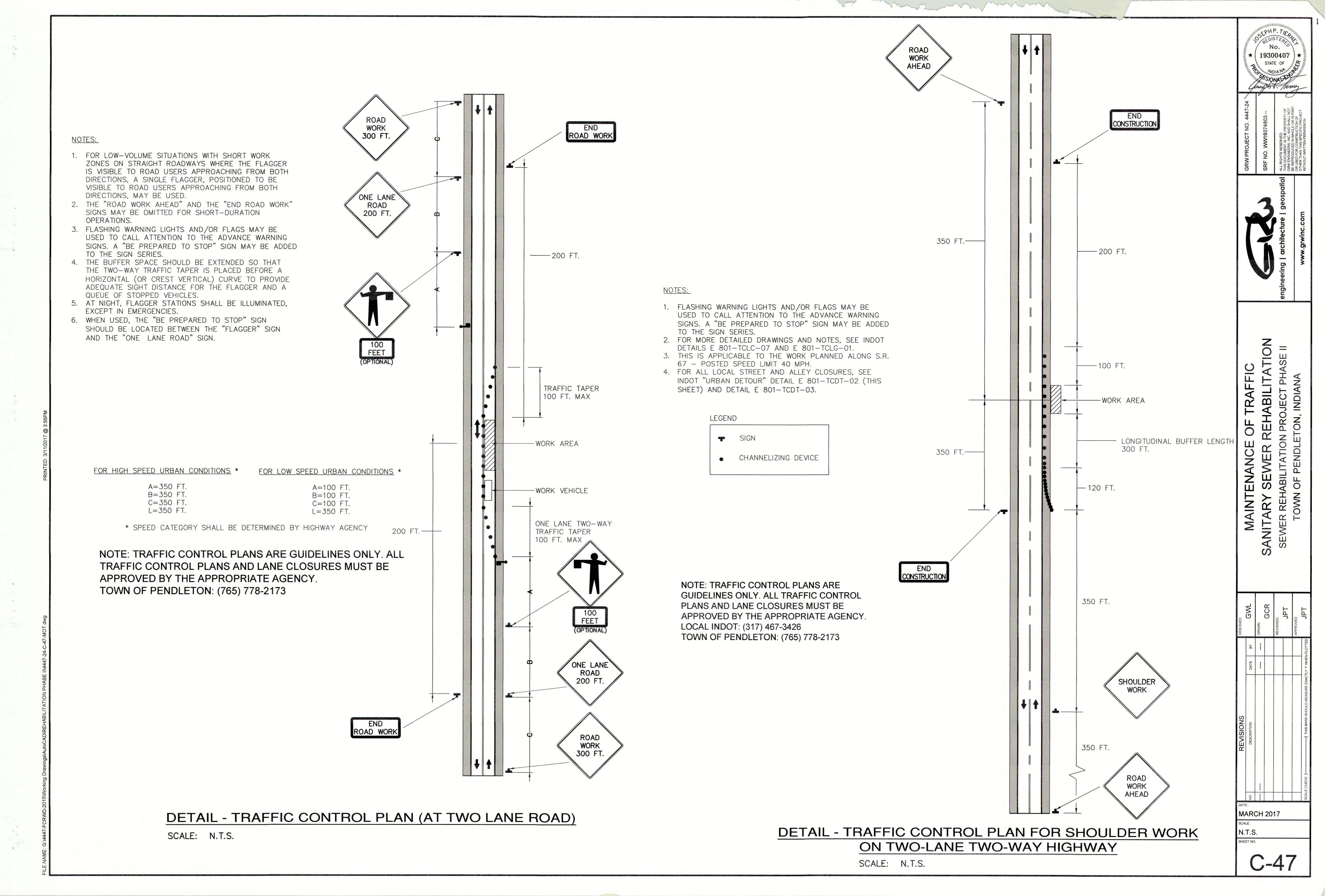
JPT

DATE:

MARCH 2017

SCALE:

N.T.S.



# TYPICAL APPLICATIONS OF TRAFFIC DEVICES FOR AN URBAN DETOUR

#### NOTES:

- FOR DETOUR ROUTE MARKER ASSEMBLIES (B) (C), AND (D) SEE INDOT STANDARD DRAWINGS E 801-TCDT-03.
- 2. SEE INDOT STANDARD DRAWING E 801-TCLG-01 FOR STANDARD NOTES AND LEGEND.

# DETAIL - TRAFFIC CONTROL PLAN FOR LOCAL DETOUR SCALE: N.T.S.

NOTE: TRAFFIC CONTROL PLANS ARE GUIDELINES ONLY. ALL TRAFFIC CONTROL PLANS AND LANE CLOSURES MUST BE APPROVED BY THE APPROPRIATE AGENCY. TOWN OF PENDLETON: (765) 778-2173

No.

\$19300407 \*\*

No.

STATE OF

NOIANA CHANGE

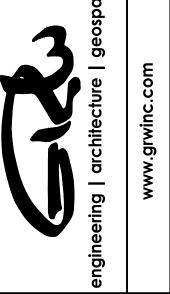
STATE OF

NOIANA CHANGE

THE STATE OF

GRW PROJECT NO. 4447-24

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BE REPRODUCED IN WHOLE OR IN PART



MAINTENANCE OF TRAFFIC
SANITARY SEWER REHABILITATION
SEWER REHABILITATION PROJECT PHASE II
TOWN OF PENDLETON, INDIANA

DATE BY GWL

---- DRAWN:
GCR

REVIEWED:
JPT

THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE:
MARCH 2017

SCALE: N.T.S.

SHEET NO.