

STATE OF INDIANA
ELKHART COUNTY



PROJECT LOCATION SHOWN BY →

COUNTY ROAD 40 / U.S. HIGHWAY 33 WATER MAIN UTILITY EXTENSION

PROJECT NO. 2017-0012

CITY OF GOSHEN

GOVERNMENT

MAYOR JEREMY P. STUTSMAN

COMMON COUNCIL

DISTRICT ONE
JIM MCKEE

DISTRICT TWO
EDWARD A. AHLERSMEYER II

DISTRICT THREE
MIKE ORGILL

DISTRICT FOUR
JULIA A. GAUTSCHE

DISTRICT FIVE
ADAM SCHARF

COUNCILMAN-AT-LARGE
BRETT WEDDELL

COUNCILWOMAN-AT-LARGE
JULIA KING

BOARD OF PUBLIC WORKS AND SAFETY

JEREMY P. STUTSMAN, MAYOR
MICHAEL LANDIS, MEMBER
MITCH DAY, MEMBER

UTILITIES

WATER GOSHEN WATER WORKS
202 S. 5TH STREET
GOSHEN, IN 46528
KENT HOLDREN
574-533-9399

SEWER GOSHEN WASTEWATER TREATMENT & UTILITY
202 S. 5TH STREET
GOSHEN, IN 46528
KENT HOLDREN
574-533-9399

ELECTRIC NIPSCO
300 E. KERCHER ROAD
GOSHEN, IN 46526
RICH HAMMOND
574-535-0259

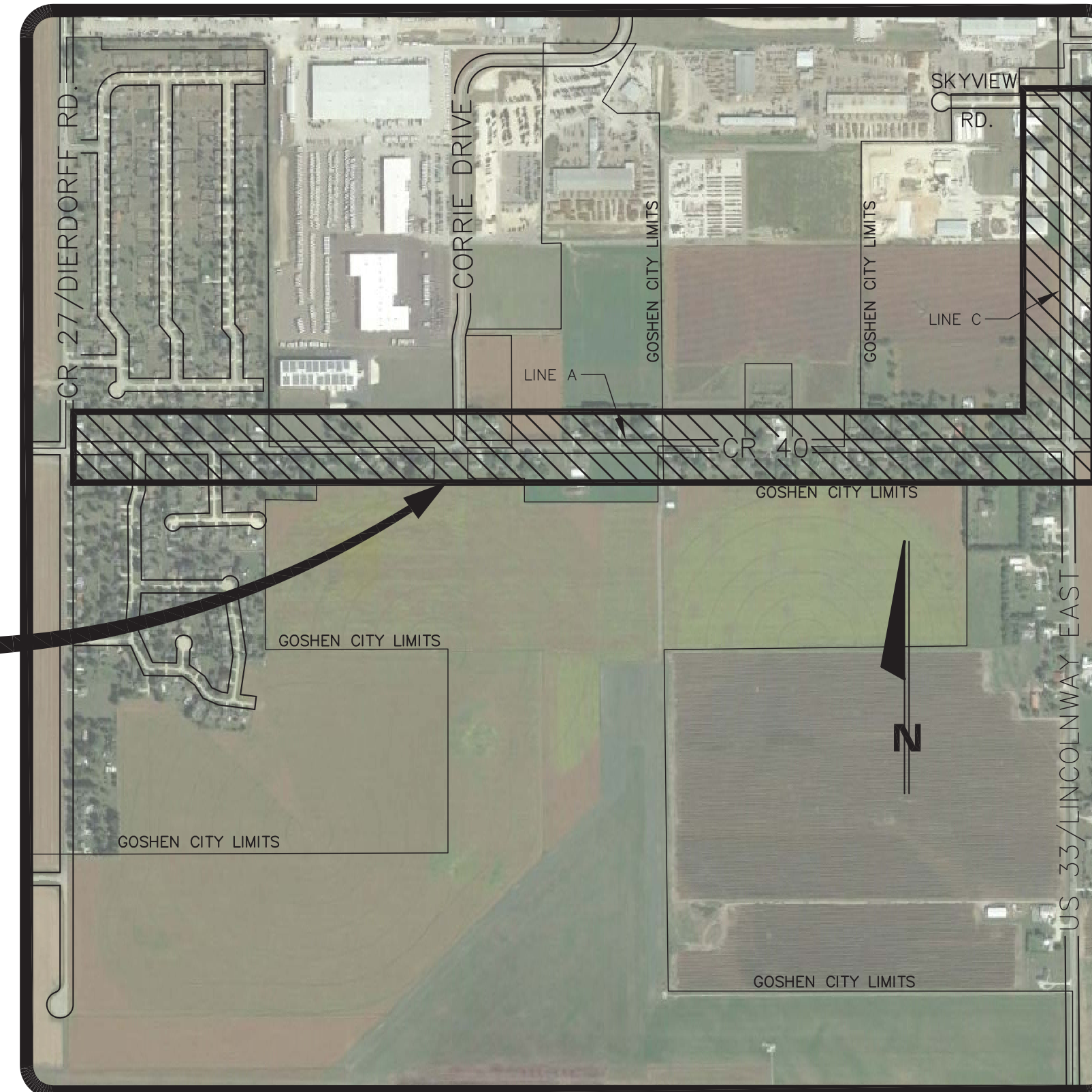
GAS NIPSCO
300 E. KERCHER ROAD
GOSHEN, IN 46526
RICH HAMMOND
574-535-0259

TELEPHONE FRONTIER
ENGINEERING DEPT.
24373 COUNTY ROAD 45
ELKHART, IN 46516
574-535-4549

TELEPHONE/FIBER OPTIC NEW PARIS TELEPHONE/COMMUNITY FIBER NETWORK
19066 MARKET STREET
NEW PARIS, IN 46553
574-831-2179

CABLE TELEVISION COMCAST
4045 EDISON LAKES PARKWAY
MISHAWAKA, IN 46545
JIM PETERSON
574-271-1284

UTILITY LOCATE "HOLEY MOLEY"
1-800-382-5544 OR 811



PROJECT SITE

LOCATION MAP
PART OF GOSHEN, INDIANA
SECTIONS 25, 26 & 35, TOWNSHIP 36 NORTH, RANGE 6 EAST, ELKHART TOWNSHIP
ELKHART COUNTY

THE PROPOSED CONSTRUCTION WILL NOT BE LOCATED WITHIN THE 100 YEAR FLOODPLAIN

PROJECT DESCRIPTION

THIS PROJECT INVOLVES EXTENSION OF A WATER MAIN EAST ALONG COUNTY ROAD 40 FROM COUNTY ROAD 27 TO U.S. HIGHWAY 33, THEN NORTH ALONG U.S. HIGHWAY 33 TO AN EXISTING 12" WATER MAIN AT SKYVIEW ROAD AND INCLUDES APPROXIMATELY 6,659 LFT OF 16" WATER MAIN, 2,251 LFT OF 12" WATER MAIN, AND ALL NECESSARY VALVES, FITTINGS, FIRE HYDRANTS, AND PLUGS INDICATED OR NECESSARY.

GENERAL NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES, CONTRACTOR SHALL CALL 1-800-382-5544 A MINIMUM OF THREE WORKING DAYS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "HOLEY MOLEY" PARTICIPATING MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "HOLEY MOLEY" ALERT SYSTEM.

IF ANY ERRORS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

THE CONTRACTOR SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL GOVERNMENT, INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, AND THE INDIANA DEPARTMENT OF TRANSPORTATION.

THE CONTRACTORS SHALL MAKE WHATEVER SOIL BORINGS NECESSARY TO FULLY ACQUAINT THEMSELVES WITH CONDITIONS AS THEY EXIST SO THAT THEY MAY FULLY UNDERSTAND THE CONDITIONS WHICH MAY AFFECT THE COST OF THE WORK. FAILURE TO MAKE SUCH BORINGS OR ANY BORINGS MADE WHICH DO NOT PROVIDE A COMPLETE UNDERSTANDING OF THE CONDITIONS ENCOUNTERED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR CARRYING OUT ALL THE WORK TO COMPLETION AS SHOWN ON THE PLANS, OR AS SPECIFIED, AT THE PRICE SPECIFIED TO BE PAID FOR THE WORK. WHERE THE RESULTS OF ANY TEST BORINGS ARE SHOWN ON THE PLANS, THE INFORMATION IS NOT GUARANTEED AND THE CONTRACTOR MUST SATISFY HIMSELF AS TO THE CHARACTER OF MATERIALS THAT MAY BE ENCOUNTERED.

THE CONTRACTOR SHALL FOLLOW THE OSHA REGULATIONS 29 C.F.R. 1926 SUBPART P, FOR TRENCH SAFETY SYSTEMS. THE COST FOR TRENCH SAFETY SYSTEMS SHALL BE MERGED INTO THE PAY ITEM OF THE PRINCIPAL WORK WITH WHICH THE SAFETY SYSTEMS ARE ASSOCIATED. THE CONTRACTOR SHALL OTHERWISE BE RESPONSIBLE FOR SAFETY IN REGARD TO THE PROJECT'S CONSTRUCTION.

UTILITY LOCATIONS

UTILITY LOCATIONS ARE APPROXIMATED FROM RECORD INFORMATION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. PIPE INVERTS HAVE BEEN MEASURED WITH AS MUCH ACCURACY AS CAN BE ACHIEVED WITHOUT CONFINED SPACE ENTRY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF PIPE INVERTS, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A DISCREPANCY IS DISCOVERED.

INDEX OF PLANS

- | | |
|---|--|
| 1 COVER SHEET | 16 PLAN & PROFILE - COUNTY ROAD 40 STA. 65+00 TO STA. 70+00 |
| 2 SURVEY DATA & INDEX SHEET | 17 PLAN & PROFILE - COUNTY ROAD 40 STA. 70+00 TO STA. 75+00 |
| 3 SURVEY DATA & INDEX SHEET | 18 PLAN & PROFILE - COUNTY ROAD 40 STA. 75+00 TO STA. 77+50 |
| 4 SURVEY DATA & INDEX SHEET | 19 PLAN & PROFILE - U.S. HIGHWAY 33 STA. 9+75 TO STA. 12+00 |
| 5 PLAN & PROFILE - COUNTY ROAD 40 STA. 10+50 TO STA. 15+50 | 20 PLAN & PROFILE - U.S. HIGHWAY 33 STA. 12+00 TO STA. 17+00 |
| 6 PLAN & PROFILE - COUNTY ROAD 40 STA. 15+50 TO STA. 20+50 | 21 PLAN & PROFILE - U.S. HIGHWAY 33 STA. 17+00 TO STA. 22+00 |
| 7 PLAN & PROFILE - COUNTY ROAD 40 STA. 20+50 TO STA. 25+50 | 22 PLAN & PROFILE - U.S. HIGHWAY 33 STA. 22+00 TO STA. 27+00 |
| 8 PLAN & PROFILE - COUNTY ROAD 40 STA. 25+50 TO STA. 30+50 | 23 PLAN & PROFILE - U.S. HIGHWAY 33 STA. 27+00 TO STA. 32+30 |
| 9 PLAN & PROFILE - COUNTY ROAD 40 STA. 30+50 TO STA. 35+50 | 24 WATER DETAIL SHEET |
| 10 PLAN & PROFILE - COUNTY ROAD 40 STA. 35+50 TO STA. 40+50 | 25 WATER AND MISC. DETAIL SHEET |
| 11 PLAN & PROFILE - COUNTY ROAD 40 STA. 40+50 TO STA. 45+50 | 26 EROSION CONTROL PLAN |
| 12 PLAN & PROFILE - COUNTY ROAD 40 STA. 45+50 TO STA. 50+00 | 27 EROSION CONTROL PLAN |
| 13 PLAN & PROFILE - COUNTY ROAD 40 STA. 50+00 TO STA. 55+00 | 28 EROSION CONTROL PLAN |
| 14 PLAN & PROFILE - COUNTY ROAD 40 STA. 55+00 TO STA. 60+00 | 29 EROSION CONTROL DETAILS AND NOTES |
| 15 PLAN & PROFILE - COUNTY ROAD 40 STA. 60+00 TO STA. 65+00 | 30 MAINTENANCE OF TRAFFIC PLAN |

OWNER/DEVELOPER
CITY OF GOSHEN
204 E. JEFFERSON
GOSHEN, IN
DUSTIN K. SAILOR, P.E., S.I.T., C.P.E.S.C.

SURVEYOR/ENGINEER
JONES, PETRIE, RAFINSKI CORP.
200 NIBCO PARKWAY, SUITE 200
ELKHART, IN 46516
CHIRAG PATEL, P.E.

SUB-CONSULTANT
TERRITORIAL ENGINEERING, LLC
7908 NORTH STATE HWY. 23
WALKERTON, IN 46574
ROBERT S. ALOI, P.S.

6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ
5-3-17	REVISED PER INDOT REVIEW COMMENTS	REZ
3-14-17	REVISED PER REVIEW COMMENTS	REZ
12-16-16	REVIEW SUBMITTAL	REZ
11-23-16	REVISED PER PRELIMINARY REVIEW	REZ
	DESCRIPTION	BY
		DATE

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TERRITORIAL ENGINEERING, LLC
WALKERTON - WWW.TEELLC.COM - INDIANA
Phone: (317) 438-9448 Email: teem@te-elc.com
Fax: (317) 438-9888

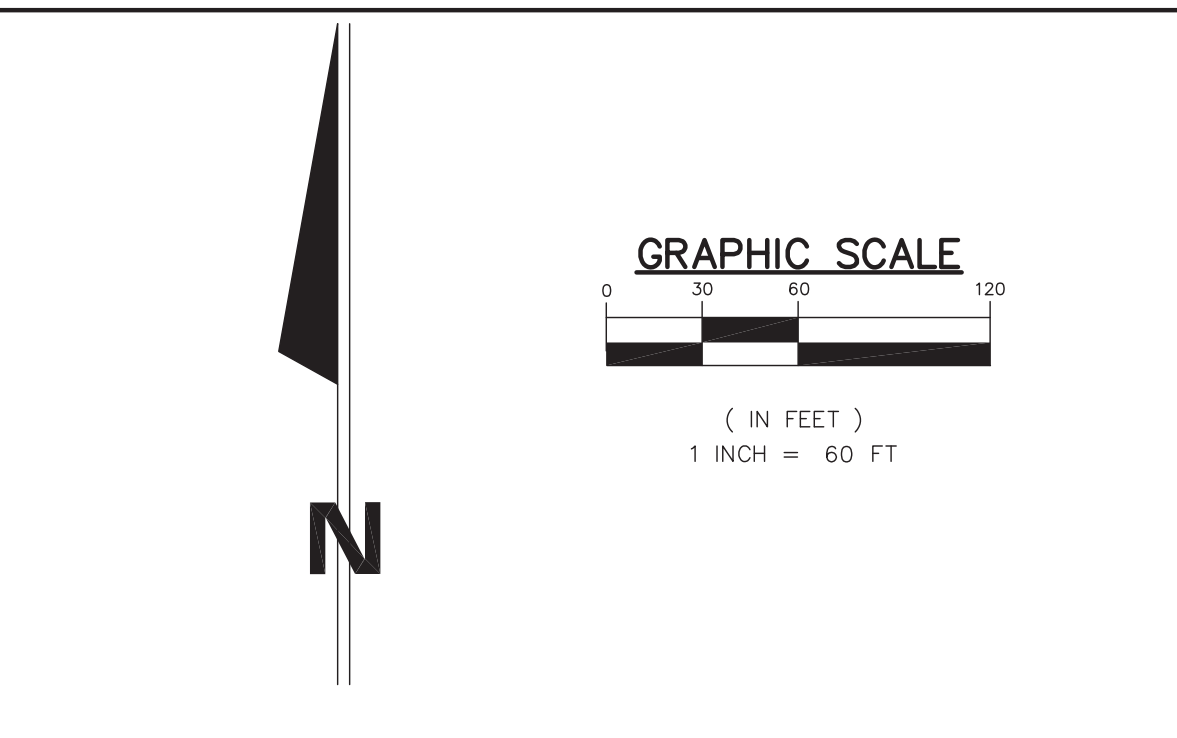
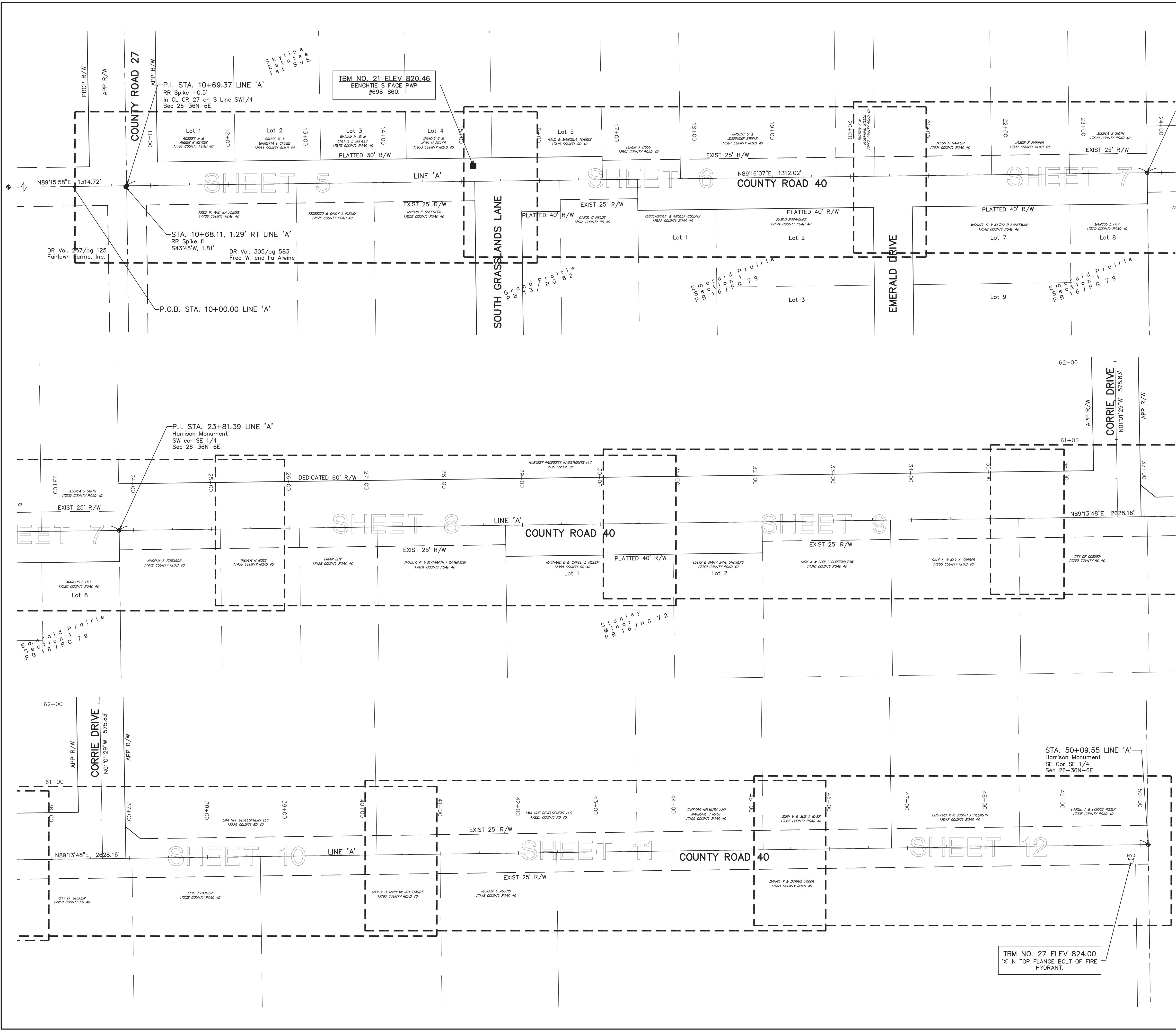
JPR JONES PETRIE RAFINSKI
your one single source
From Walkertown, Indiana
P: 260.422.2522
South Bend, Indiana
P: 574.232.1888
Elkhart, Indiana
P: 574.293.7762

CHIRAG PATEL
REGISTERED
NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN
304 E. JEFFERSON GOSHEN, IN
COVER SHEET

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: NONE

I



TOPOGRAPHIC SURVEY NOTES

This topographic survey was performed for:
 City of Goshen
 204 E. Jefferson
 Goshen, IN
 in October and October 2016, 2007, Verified in October 2016, and is for their use only.
 This is not a boundary survey. Right-of-way lines and property lines are based on limited field evidence and limited research. All right-of-way and property lines shown are apparent, except as shown.
 Basis of Elevation is DNR BM ELK 203 1987 in Elkhart County, Goshen Quad, NW Quarter Section 27, Township 36 North, Range 6 East, at the Waterford Elementary School on Highway 15, set vertically in the southwest corner of school, 149.0 feet east of Highway 15, 2.7 feet east of the west side of the building, 0.2 feet above ground, a standard DNR bronze BM tablet stamped "ELK 203 1987". Elev. 810.13.

General Notes:

- CONTRACTOR TO COORDINATE TEMPORARY RESTRAINT OF EXISTING UTILITY POLES AND/OR LINES AS NECESSARY.
- OVERHEAD LINES CONSIST OF ELECTRIC, TELEPHONE, AND CABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY JONES PETRIE AND RAFINSKI, CORP. AND TERRITORIAL ENGINEERING LLC, DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), INDIAN, AND OR LOCAL REGULATIONS. ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA, STATE, OR LOCAL REGULATIONS ARE INCIDENTAL TO THE WORK PERFORMED.
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REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REVISED PER INDOT REVIEW COMMENTS	REVISED PER REVIEW COMMENTS	REVIEW SUBMITTAL	REVIEWED PER PRELIMINARY REVIEW	DATE
5	4	3	2	1	REV

DESIGNED BY: TERRITORIAL ENGINEERING, LLC
 WALKERTON - WWW.TELCOENR.COM - INDIANA

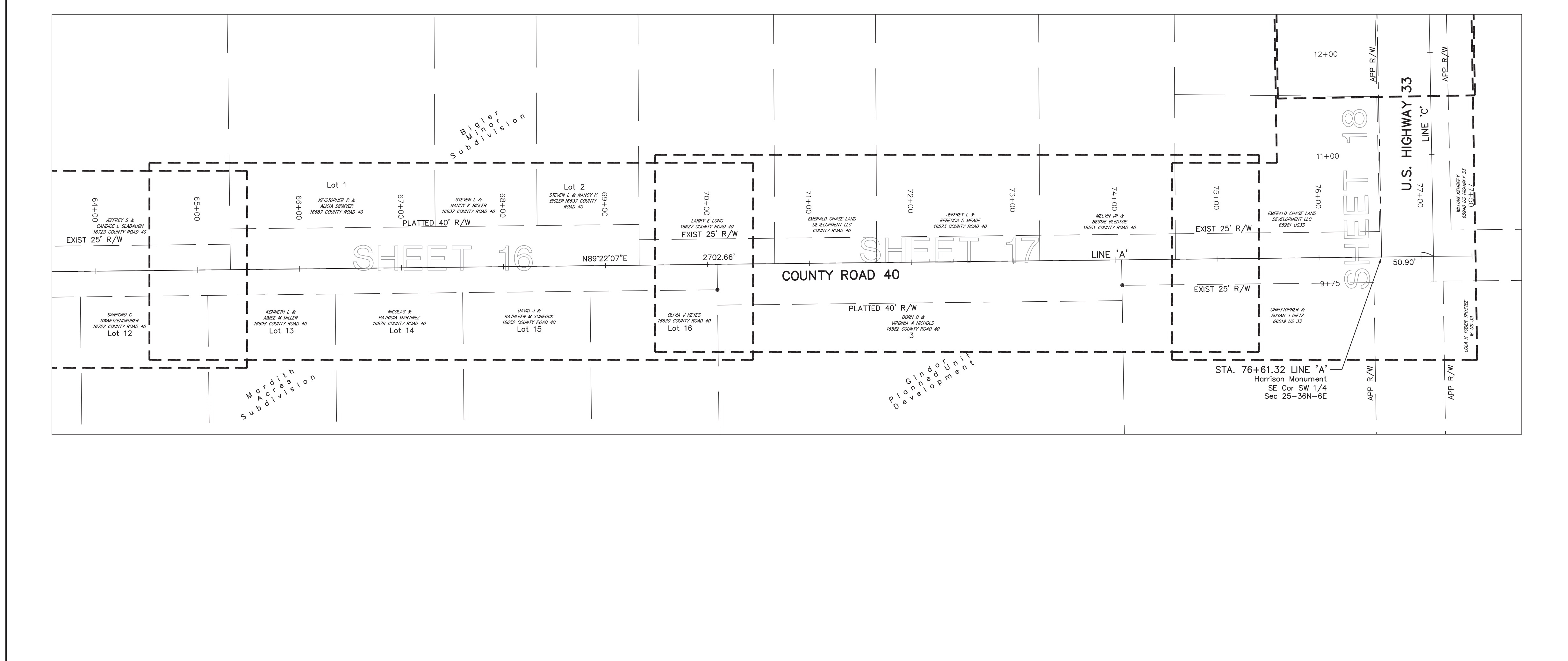
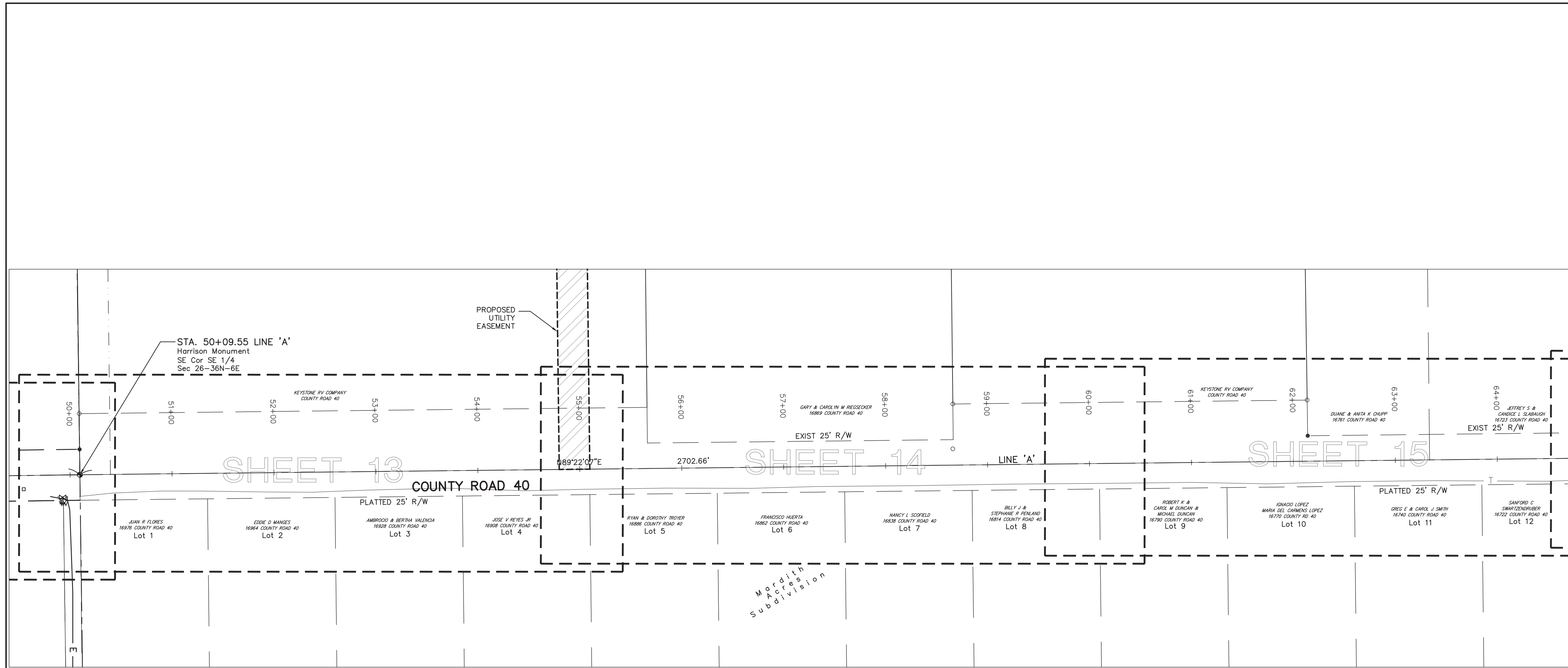
JR Jones PETRIE RAFINSKI
 your one single source



6/2/2017
 COUNTY ROAD 40 / U.S. HIGHWAY 33
 WATER UTILITY EXTENSION
 CITY OF GOSHEN
 GOSHEN, IN
 204 E. JEFFERSON

DESIGNED BY: CHIRAG PATEL
 DRAWN BY: REZ
 DATE: DECEMBER 2016
 JOB NUMBER: 2017-0012
 SCALE: 1"=60'
 ENGINEER: _____
 DESIGNER: _____
 DRAFTSPERSON: _____

EXISTING TOPOGRAPHIC FEATURES AND CONTOURS WERE FIELD CHECKED BY:
 ENGINEER: _____
 DESIGNER: _____
 DRAFTSPERSON: _____



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REV.	DESCRIPTION	DATE
1	REVISED PER PRELIMINARY REVIEW	11-23-16
2	REVIEW SUBMITTAL	12-16-16
3	REVISED PER REVIEW COMMENTS	3-14-17
4	REVISED PER INDOT REVIEW COMMENTS	5-3-17
5	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17

JONES PETRIE AND RAFINSKI
 your one single source

Elkhart, Indiana
 P: 574.297.7762

South Bend, Indiana
 P: 574.232.1888

Fort Wayne, Indiana
 P: 260.422.2622

Phone: (574) 298-3448
 Email: terr@tp-ra.com

File: (574) 298-2882

CHIRAG PATEL
 REGISTERED PROFESSIONAL ENGINEER
 NO. 111200182
 STATE OF INDIANA
 6/2/2017

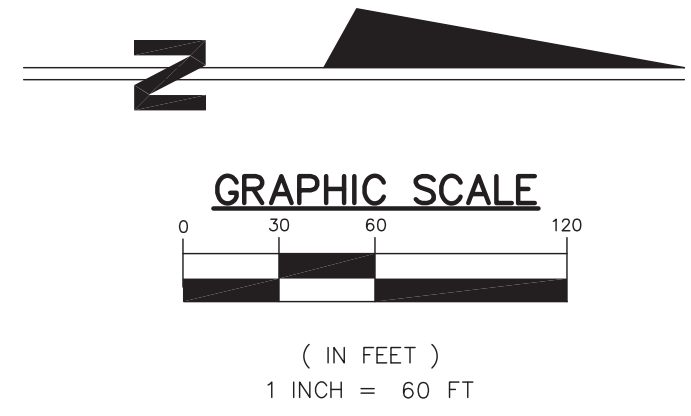
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CITY OF GOSHEN
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DESIGNED BY: CHIRAG PATEL
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 ENGINEER: _____
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JOB NUMBER: 2017-0012
 SCALE: 1"=60'
 3

SURVEY DATA & INDEX SHEET

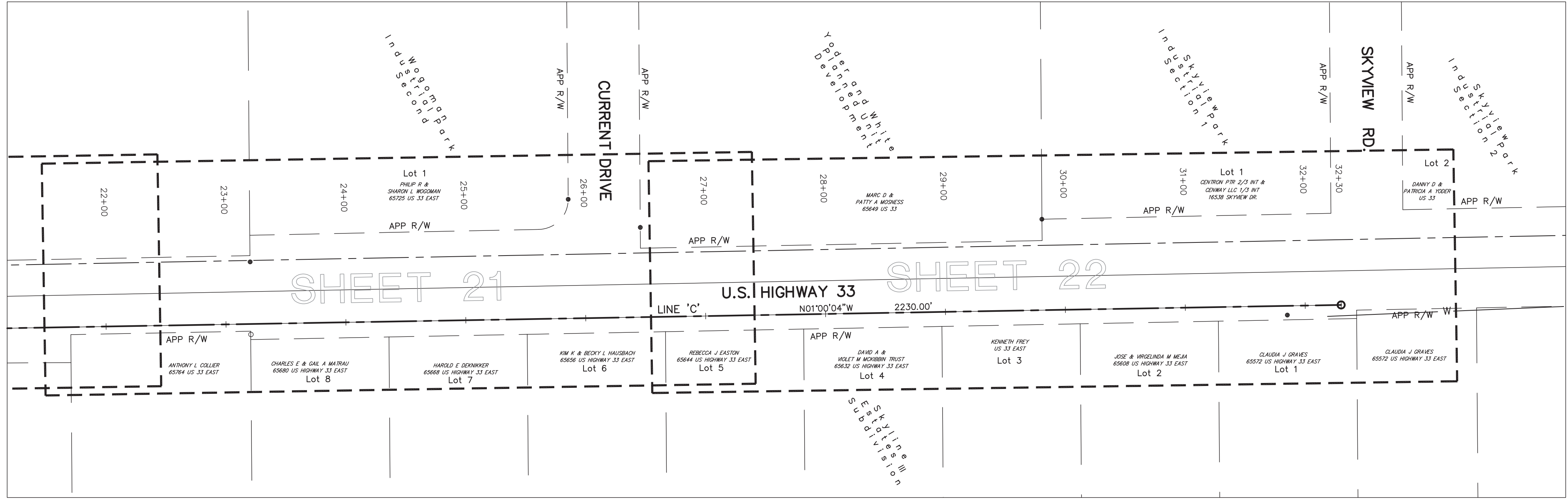
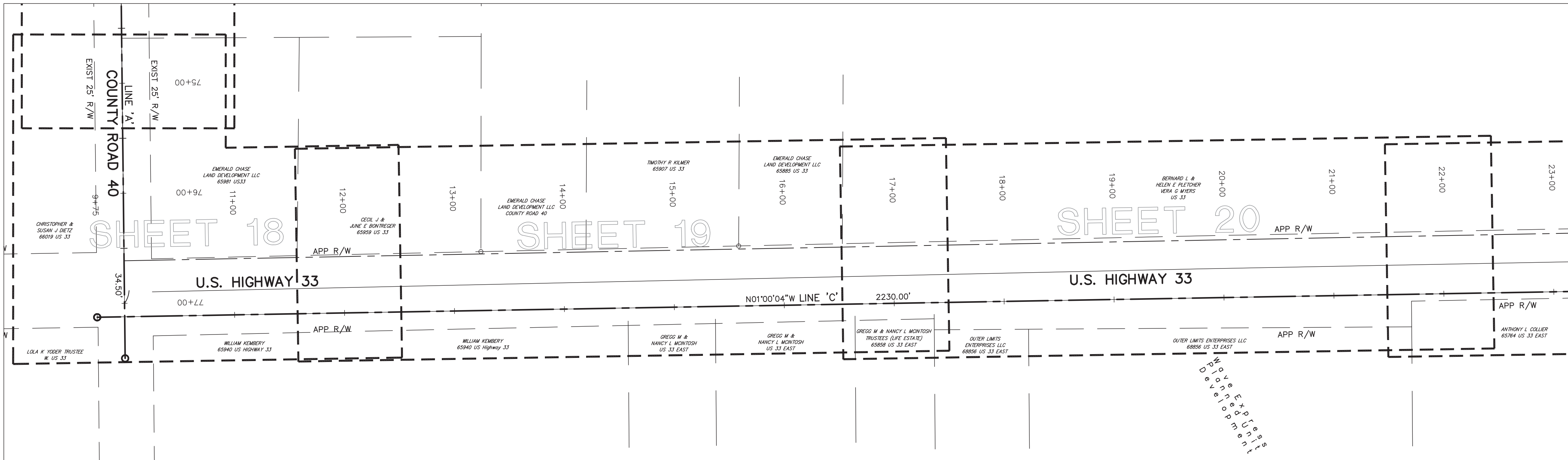


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 Goshen, IN
 in October and October 2016, 2007, Verified in October 2016, and is for their use only.
 This is not a boundary survey. Right-of-way lines and property lines are based on limited field evidence and limited research. All right-of-way and property lines shown are apparent, except as shown.
 Basis of Elevation is DNR BM ELK 203 1987 in Elkhart County, Goshen Quad, NW Quarter Section 27, Township 36 North, Range 6 East, at the Waterford Elementary School on Highway 15, 2.7 feet east of the west side of the building, 0.2 feet above ground, a standard DNR bronze BM tablet stamped "ELK 203 1987". Elev. 810.13.

General Notes:

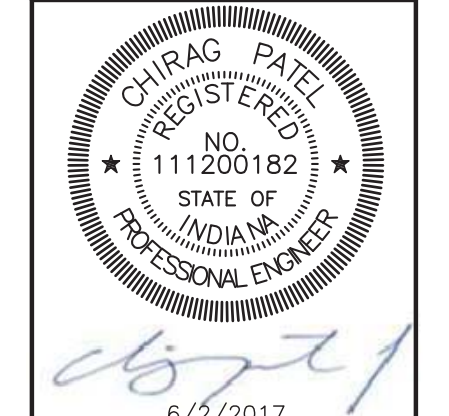
- CONTRACTOR TO COORDINATE TEMPORARY RESTRAINT OF EXISTING UTILITY POLES AND/OR LINES AS NECESSARY.
- OVERHEAD LINES CONSIST OF ELECTRIC, TELEPHONE, AND CABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY JONES PETRIE RAFINSKI CORP. AND TERRITORIAL ENGINEERING, LLC DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), INDIAN, AND/OR LOCAL REGULATIONS. ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA, STATE, OR LOCAL REGULATIONS ARE INCIDENTAL TO THE WORK PERFORMED.
- SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF APPROVED PLANS AND SPECIFICATIONS. NOT ALL FEATURES ARE DETEILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICTS WITHIN THE PLANS AND/OR SPECIFICATIONS.
- PRIOR TO SUBMITTING A BID PROPOSAL IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT AN ADDITIONAL FIELD EXPLORATION OR ACQUIRE ANY ADDITIONAL GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF-SITE BORROW OR TOPSOIL THAT WILL BE REQUIRED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES OR OTHER MEANS AS REQUIRED. MAINTAIN TRAFFIC PROTECTION IS INCIDENTAL TO THIS WORK.
- INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES INCLUDING STORM DRAINAGE, WATER, PHONE, ELECTRIC, GAS AND CABLE ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION CAN BE MADE.
- THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING NEAR THOSE EXISTING UTILITIES NOT NOTED FOR DEMOLITION OR REMOVAL. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF UNDERGROUND OBSTRUCTIONS, OR FROM ANY DELAY DUE TO THE REMOVAL OR REARRANGEMENT OF THE SAME.
- PRIOR TO DEMOLITION OR CONSTRUCTION THE CONTRACTOR SHALL CONTACT 811 AT LEAST 48 HOURS BEFORE COMMENCEMENT OF WORK. ALL NON-MEMBER UTILITIES SHALL BE CONTACTED DIRECTLY BY THE CONTRACTOR.
- CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES SERVICING ADJACENT PROPERTIES EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE LOCAL MUNICIPALITY OR THE AFFECTED UTILITY.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WORK TO BE PERFORMED BY UTILITY COMPANIES INCLUDING CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, INSTALLATIONS, STREET CUTS AND DEMOLITION. ALL EXCAVATED MATERIAL FOR NEW UTILITY INSTALLATIONS OR RELOCATIONS THAT ARE LOCATED BENEATH NEW PAVEMENT LOCATIONS SHALL BE BACKFILLED WITH GRADE "D" BORROW AND COMPACTED PER SPECIFICATIONS.
- EXCESS EXCAVATED MATERIAL NOT SUITED FOR BACKFILL FOR TRENCHES OR PAVEMENT SHALL BE TRANSPORTED TO AN AREA PROVIDED OFFSITE BY THE CONTRACTOR.
- STOCKPILES OF EXCAVATED MATERIAL AND/OR TOPSOIL SHALL NOT BE PERMITTED ON AIRPORT PROPERTY OR WITHIN THE ROAD RIGHT-OF-WAY.
- ALL EXISTING PAVEMENT WHERE UTILITY PIPING OR CONDUIT IS TO BE INSTALLED OR WILL MATCH EXISTING PAVEMENTS SHALL BE SAW CUT.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF SURVEY CONTROL POINTS, BENCHMARKS, AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD OR AN INDIANA REGISTERED LAND SURVEYOR FOR RE-INSTALLATION OF THE MONUMENT(S).
- VOLUMES OF CUT AND FILL MATERIALS DO NOT TAKE INTO CONSIDERATION MATERIAL DENSITIES BEFORE OR AFTER EXCAVATION OR COMPACTION. CONTRACTOR TO ACCOUNT FOR VOLUMES WHEN PREPARING BID PROPOSALS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL CONSTRUCTION DEBRIS IN ACCORDANCE TO ALL GOVERNING BODIES/AGENCIES. THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM THE OPERATION AND RESTORE ALL SURFACES, STRUCTURES, AND PROPERTY NOT INCLUDED WITH THESE IMPROVEMENTS TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF OWNER AND ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN SAFE, CLEARLY MARKED, ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT THE ENTIRE PROJECT DURATION. THIS INCLUDES ACCESS FOR FARM MACHINERY, IN DOING SO THE CONTRACTOR SHALL ALSO MAINTAIN EXISTING DRAINAGE DITCHES OPEN WITHOUT ANY OBSTRUCTIONS.
- LIMITED CONSTRUCTION OPERATIONS TO OCCUR WITHIN TRAVEL WAYS OF COUNTY ROAD 40 AND US 33 AT ANYTIME DURING THIS PROJECT. PRIOR APPROVAL BY ENGINEER IS REQUIRED.



REV.	DESCRIPTION	DATE
1	REVISED PER PRELIMINARY REVIEW	11-23-16
2	REVIEW SUBMITTAL	12-16-16
3	REVISED PER REVIEW COMMENTS	3-14-17
4	REVISED PER INDOT REVIEW COMMENTS	5-3-17
5	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17

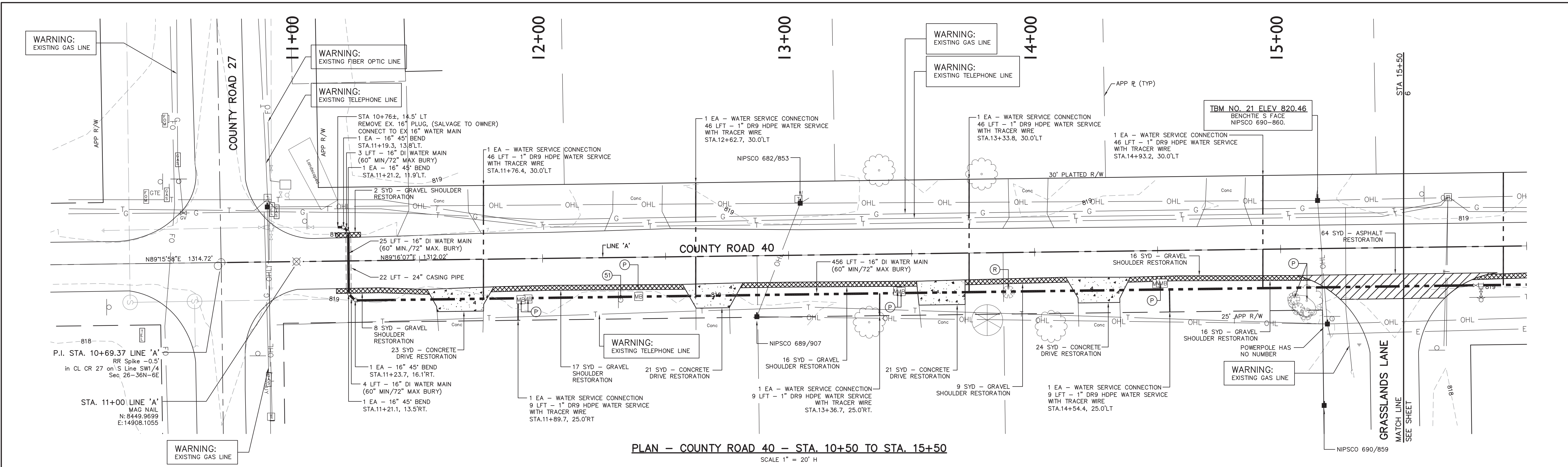
CONTRACTOR TO COORDINATE TEMPORARY RESTRAINT OF EXISTING UTILITY POLES AND/OR LINES AS NECESSARY.

JONES PETRIE RAFINSKI
 your one single source
 South Bend, Indiana
 P: 574.332.1888
 Elkhart, Indiana
 P: 574.297.762



DESIGNED BY: CHIRAG PATEL
 DRAWN BY: REZ
 DATE: DECEMBER 2016
 JOB NUMBER: 2017-0012
 SCALE: 1"=60'
 SHEET NUMBER: 4

EXISTING TOPOGRAPHIC FEATURES AND CONTOURS WERE FIELD CHECKED BY: _____
 ENGINEER: _____
 DESIGNER: _____
 DRAFTSPERSON: _____



PLAN - COUNTY ROAD 40 - STA. 10+50 TO STA. 15+50
SCALE 1" = 20' H

LEGEND (C.R. 40)

- FULL DEPTH PAVEMENT REPLACEMENT 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER 2" (220#/SYD) HMA INTERMEDIATE NO. 8 OR 9, OVER 3" (330#/SYD) HMA BASE NO. 5, OVER 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
- 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER COMPACTED SUBGRADE (IF REQUIRED)
- GRAVEL DRIVE RESTORATION
- HMA DRIVE RESTORATION
- CONCRETE DRIVE RESTORATION

- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

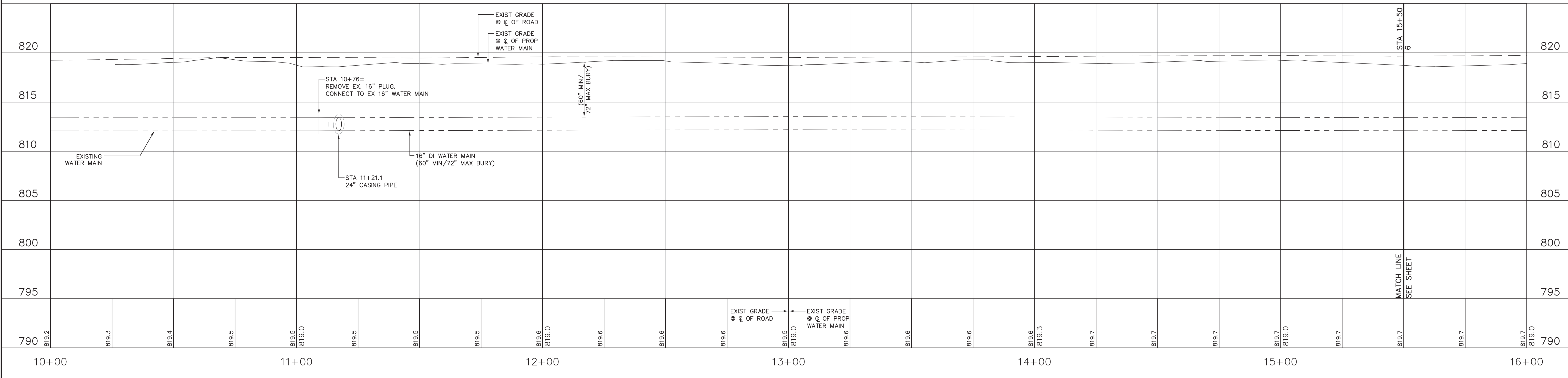
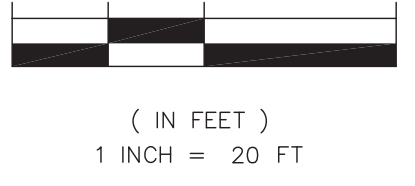
NOTES:

1. CONTRACTOR SHALL ACCURATELY RESTORE SIDE SWALES ALONG COUNTY ROAD 40 AND U.S. HIGHWAY 33 WITHIN THE EXISTING RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION.
2. CONTRACTOR SHALL RESEED THE DISTURBED AREAS WITH GRASS SEED CONFORMING TO THE SPECIFICATIONS. RESTORATION SHALL BE PERFORMED PROGRESSIVELY PER THE PROJECT SPECIFICATIONS.
3. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE APPROVED EROSION CONTROL PLAN. SEE SHEET 26 THRU 29 FOR MINIMUM PLAN AND DETAILS.
4. COORDINATE TEMPORARY RESTRAINT OF EXIST UTILITY POLES AND/OR LINES AS NECESSARY.
5. CONTRACTOR TO MAINTAIN UNINTERRUPTED MAIL SERVICE TO ALL RESIDENTS FOR THE DURATION OF THE PROJECT.
6. WATER SERVICE LEADS AS SHOWN ON PLANS ARE FOR GENERAL REFERENCE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATION IN THE FIELD WITH ADJACENT PROPERTY OWNERS AS TO FINAL LOCATION OF WATER SERVICE LEADS. FINAL COORDINATION LOCATION TO BE APPROVED BY ENGINEER. COORDINATION WORK IS INCIDENTAL TO EACH WATER SERVICE CONNECTION.
7. CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES SERVICING ADJACENT PROPERTIES EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED BY THE LOCAL MUNICIPALITY.
8. CONTRACTOR SHALL NOT INTERRUPT MAIL SERVICE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO REINSTALL ALL MAILBOXES ONCE THE PIPE HAS BEEN LAID AND BACKFILLED TO MAINTAIN UNINTERRUPTED MAIL DELIVERY.

LEGEND

- EXISTING MONUMENT
- SANITARY MANHOLE
- GAS VALVE
- GAS MARKER
- GUY ANCHORS
- LIGHT POLE
- POWER POLE
- YARD LIGHT
- TELEPHONE VAULT
- TELEPHONE PEDSTAL
- TELEPHONE HANDHOLE
- TELEPHONE MARKER
- FIBER OPTIC MARKER
- FIRE HYDRANT
- WATER VALVE
- POST
- MAILBOX
- ROCKS/BOULDERS
- SIGN
- STOP SIGN
- SHRUB
- STUMP
- ORNAMENTAL TREE
- DECIDUOUS TREE
- CONIFEROUS TREE
- STORM LINE
- FORCE MAIN
- GAS LINE
- OVERHEAD LINE
- ELECTRIC LINE
- FIBER OPTIC LINE
- TELEPHONE LINE
- WATER LINE
- WOOD FENCE
- CHAIN LINK TYPE FENCE
- FENCE
- SPLIT RAIL FENCE
- FARM FIELD TYPE FENCE
- TREETLINE
- BRUSHLINE

GRAPHIC SCALE



PROFILE - COUNTY ROAD 40 - STA. 10+50 TO STA. 15+50
SCALE 1" = 20' H, 5' V

	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17
	REVISED PER INDOT REVIEW COMMENTS	5-3-17
	REVISED PER REVIEW COMMENTS	3-14-17
	REVIEW SUBMITTAL	12-16-16
	REVISED PER PRELIMINARY REVIEW	11-23-16
	DESCRIPTION	BY
	DATE	DATE

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JPR JONES PETRIE RAFINSKI
your one single source

TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA

South Bend, Indiana
P: 574.232.1888

Elkhart, Indiana
P: 574.293.7762

From Warsaw, Indiana
P: 260.422.2522

Phone: (574) 368-3448
Email: team@jpr.com
Fax: (574) 368-3888

CHIRAG PATEL
REGISTERED
NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER

6/2/2017

DESIGNED BY: CHIRAG PATEL

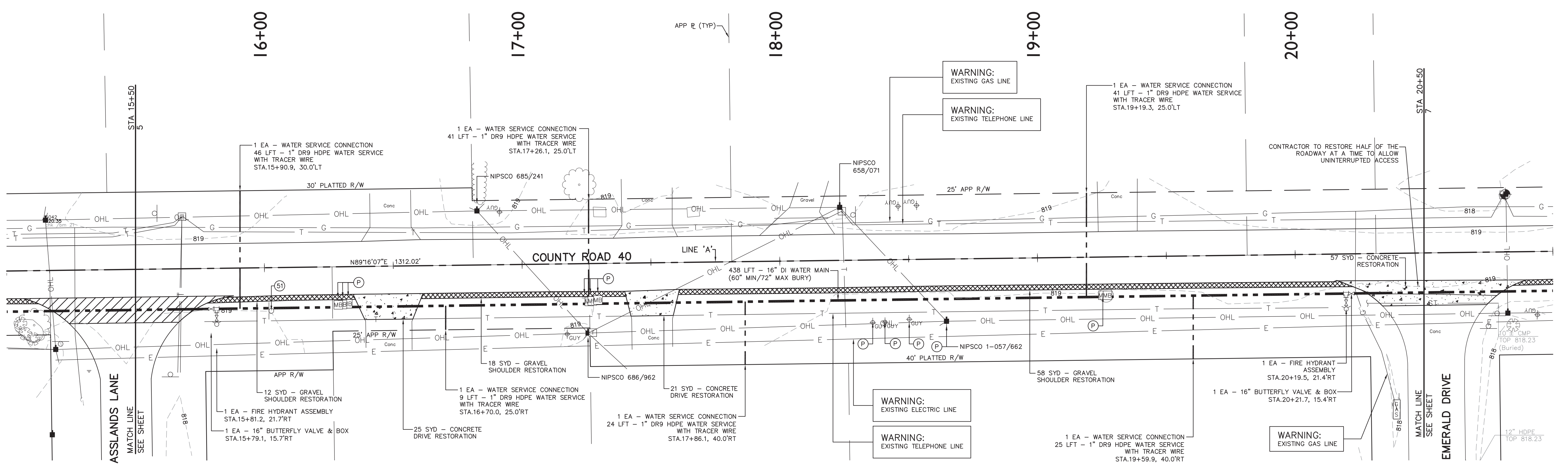
DRAWN BY: REZ

DATE: DECEMBER 2016

JOB NUMBER: 2017-0012

SCALE: 1" = 20' H, 5' V

5

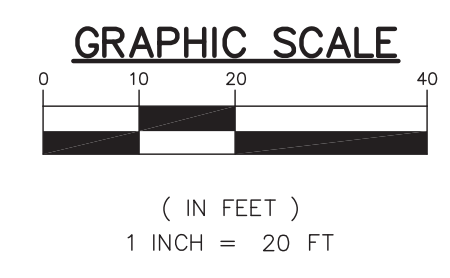


PLAN - COUNTY ROAD 40 - STA. 15+50 TO STA. 20+50
SCALE 1" = 20' H

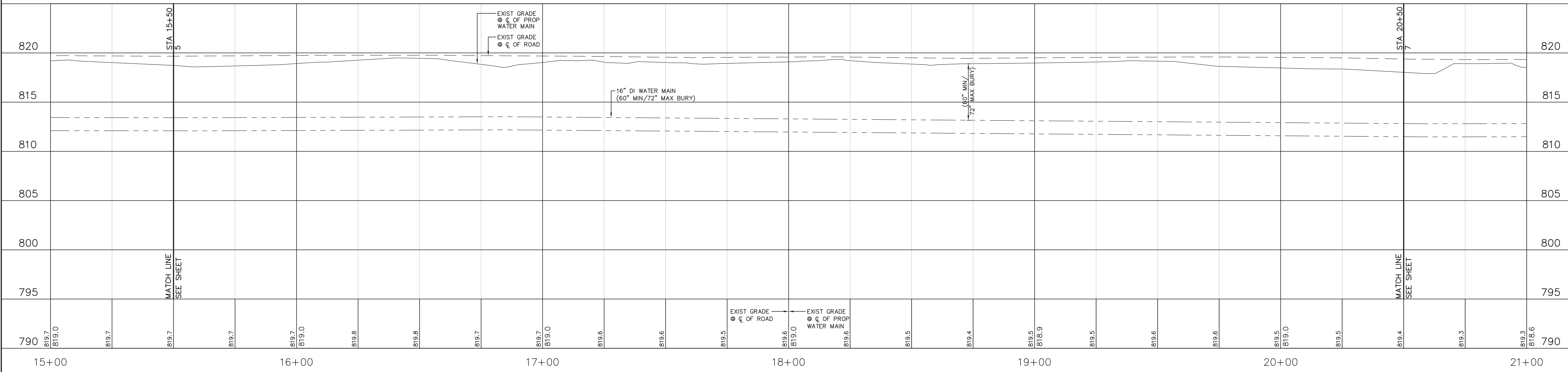
- LEGEND (C.R. 40)**
- FULL DEPTH PAVEMENT REPLACEMENT
 - 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER
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 - 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER COMPACTED SUBGRADE (IF REQUIRED)
 - GRAVEL DRIVE RESTORATION
 - HMA DRIVE RESTORATION
 - CONCRETE DRIVE RESTORATION

- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

- NOTES:**
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 - CONTRACTOR SHALL RESEED THE DISTURBED AREAS WITH GRASS SEED CONFORMING TO THE SPECIFICATIONS. RESTORATION SHALL BE PERFORMED PROGRESSIVELY PER THE PROJECT SPECIFICATIONS.
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- LEGEND**
- EXISTING MONUMENT
 - SANITARY MANHOLE
 - GAS VALVE
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 - LIGHT POLE
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 - TREELINE
 - BRUSHLINE



PROFILE - COUNTY ROAD 40 - STA. 15+50 TO STA. 20+50
SCALE 1" = 20' H, 5' V

6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ
5-3-17	REVISED PER INDOT REVIEW COMMENTS	REZ
3-14-17	REVISED PER REVIEW COMMENTS	REZ
12-16-16	REVIEW SUBMITTAL	REZ
11-23-16	REVISED PER PRELIMINARY REVIEW	REZ
	DESCRIPTION	BY
	DATE	

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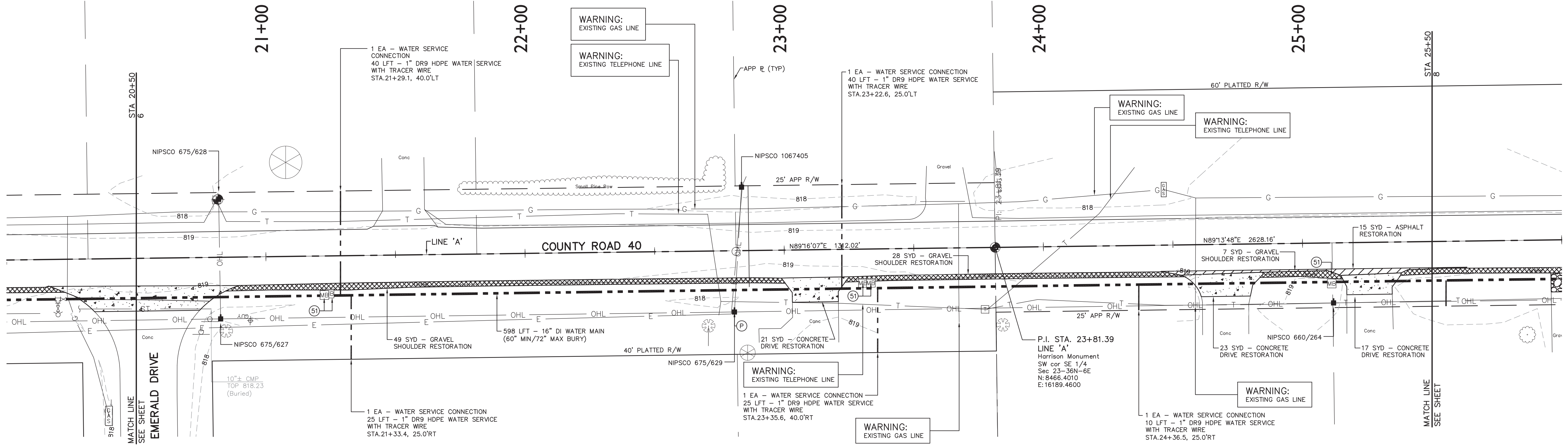
JPR Jones Petrie Rafinski
your one single source

Chirag Patel
REGISTERED PROFESSIONAL ENGINEER
NO. 111200182
STATE OF INDIANA

6/2/2017

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1" = 20' H, 5' V

6

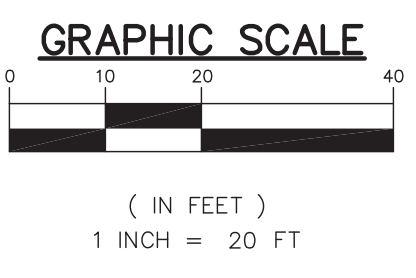


PLAN - COUNTY ROAD 40 - STA. 20+50 TO STA. 25+50
SCALE 1" = 20' H

LEGEND (C.R. 40)

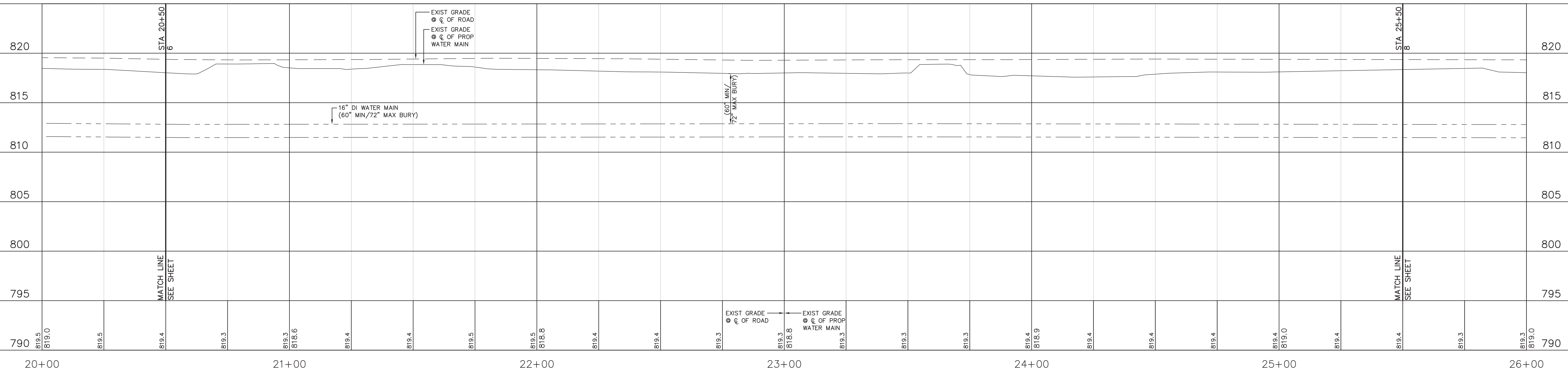
- FULL DEPTH PAVEMENT REPLACEMENT
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 - CONTRACTOR SHALL RESEED THE DISTURBED AREAS WITH GRASS SEED CONFORMING TO THE SPECIFICATIONS. RESTORATION SHALL BE PERFORMED PROGRESSIVELY PER THE PROJECT SPECIFICATIONS.
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LEGEND

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- TREELINE
- BRUSHLINE



PROFILE - COUNTY ROAD 40 - STA. 20+50 TO STA. 25+50
SCALE 1" = 20' H, 5' V

6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ
5-3-17	REVISED PER INDOT REVIEW COMMENTS	REZ
3-14-17	REVISED PER REVIEW COMMENTS	REZ
12-16-16	REVIEW SUBMITTAL	REZ
11-23-16	REVISED PER PRELIMINARY REVIEW	REZ
	DESCRIPTION	BY
		DATE

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TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA

JPR JONES PETRIE RAFINSKI
your one single source

South Bend, Indiana
P: 574.232.1888

Elkhart, Indiana
P: 574.293.7762

Fort Wayne, Indiana
P: 260.422.2822

Phone: (260) 422-2822
Fax: (260) 422-2822
Email: terr@te-k.com
www.te-k.com

CHIRAG PATEL
REGISTERED
NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER

6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN

204 E. JEFFERSON
GOSHEN, IN

DESIGNED BY: CHIRAG PATEL

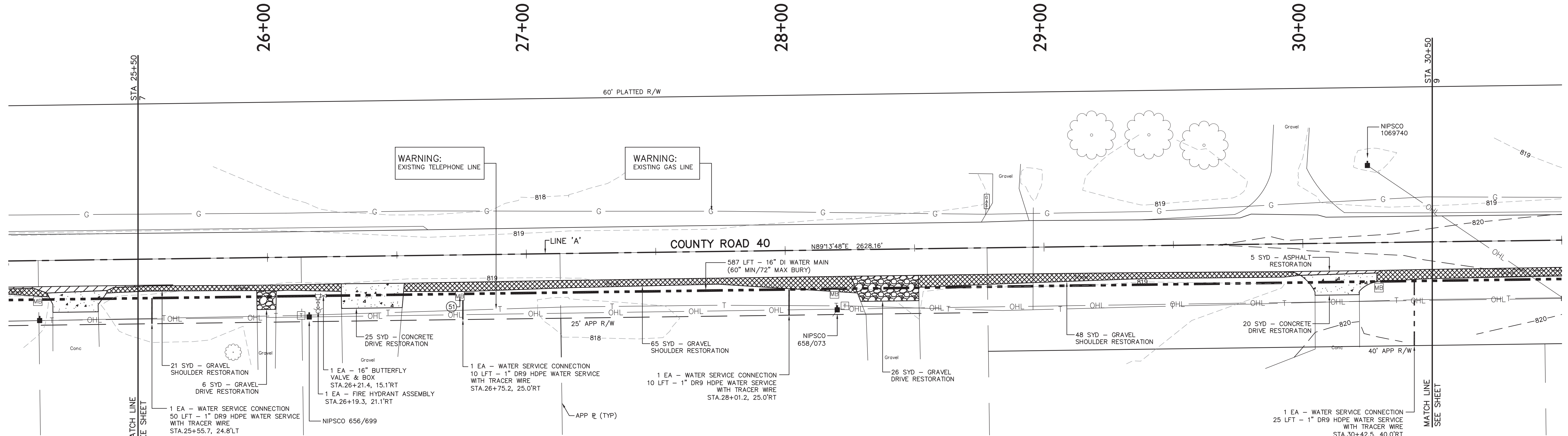
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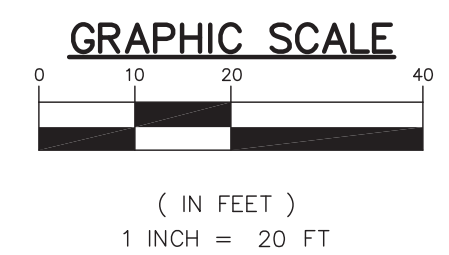
SCALE: 1" = 20' H, 5' V

7



PLAN - COUNTY ROAD 40 - STA. 25+50 TO STA. 30+50
SCALE 1" = 20' H

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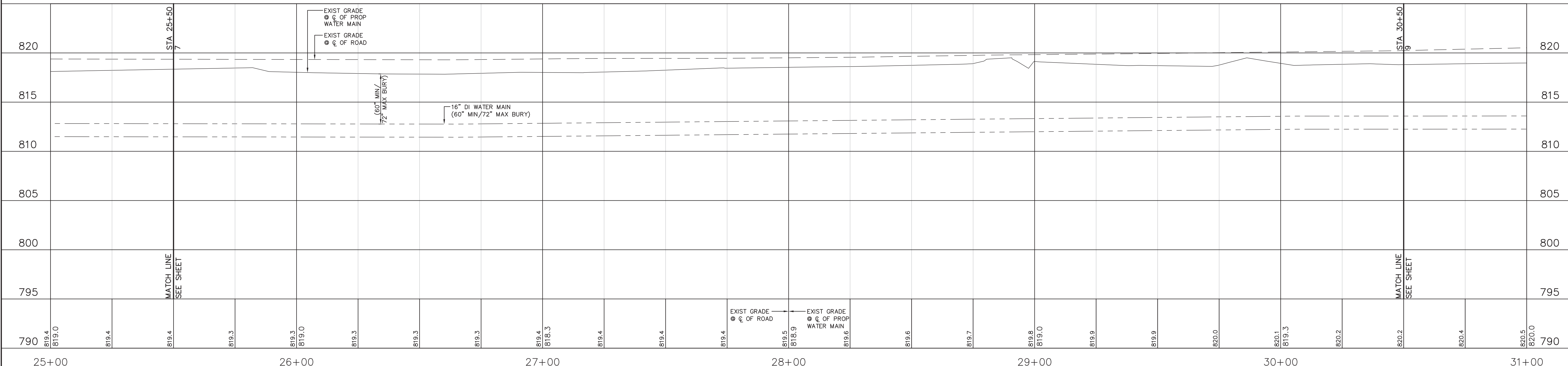


LEGEND

- EXISTING MONUMENT
- SANITARY MANHOLE
- GAS VALVE
- GAS MARKER
- GUY ANCHORS
- LIGHT POLE
- POWER POLE
- YARD LIGHT
- TELEPHONE VAULT
- TELEPHONE PEDESTAL
- TELEPHONE HANDHOLE
- TELEPHONE MARKER
- FIBER OPTIC MARKER
- FIRE HYDRANT
- WATER VALVE
- POST
- MAILBOX
- ROCKS/BOULDERS
- SIGN
- STOP SIGN
- SHRUB
- STUMP
- ORNAMENTAL TREE
- DECIDUOUS TREE
- CONIFEROUS TREE
- SF — STORM LINE
- FM — FORCE MAIN
- G — GAS LINE
- OHL — OVERHEAD LINE
- E — ELECTRIC LINE
- FO — FIBER OPTIC LINE
- T — TELEPHONE LINE
- W — WATER LINE
- X — WOOD FENCE
- X — CHAIN LINK TYPE FENCE
- X — FENCE
- X — SPLIT RAIL FENCE
- X — FARM FIELD TYPE FENCE
- T — TREE LINE
- BR — BRUSHLINE

LEGEND (C.R. 40)

- FULL DEPTH PAVEMENT REPLACEMENT
- 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER
- 2" (220#/SYD) HMA INTERMEDIATE NO. 9 OR 9, OVER
- 3" (330#/SYD) HMA BASE NO. 5, OVER
- 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
- 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER COMPACTED SUBGRADE (IF REQUIRED)
- GRAVEL DRIVE RESTORATION
- HMA DRIVE RESTORATION
- CONCRETE DRIVE RESTORATION
- P — PROTECT
- R — REMOVE
- S — RESTORE
- RL — RELOCATE
- W — PROPOSED WATER MAIN



PROFILE - COUNTY ROAD 40 - STA. 25+50 TO STA. 30+50
SCALE 1" = 20' H, 5' V

6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ
5-3-17	REVISED PER INDOT REVIEW COMMENTS	REZ
3-14-17	REVISED PER REVIEW COMMENTS	REZ
12-16-16	REVIEW SUBMITTAL	REZ
11-23-16	REVISED PER PRELIMINARY REVIEW	REZ
	DESCRIPTION	BY
		DATE

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JPR Jones Petrie Rafinski
your one single source

Chirag Patel
Professional Engineer
No. 111200182
State of Indiana

South Bend, Indiana
P: 574.237.7762

Elkhart, Indiana
P: 574.232.1888

Phone: (574) 238-9448
Email: team@jpr.com
www.jpr.com

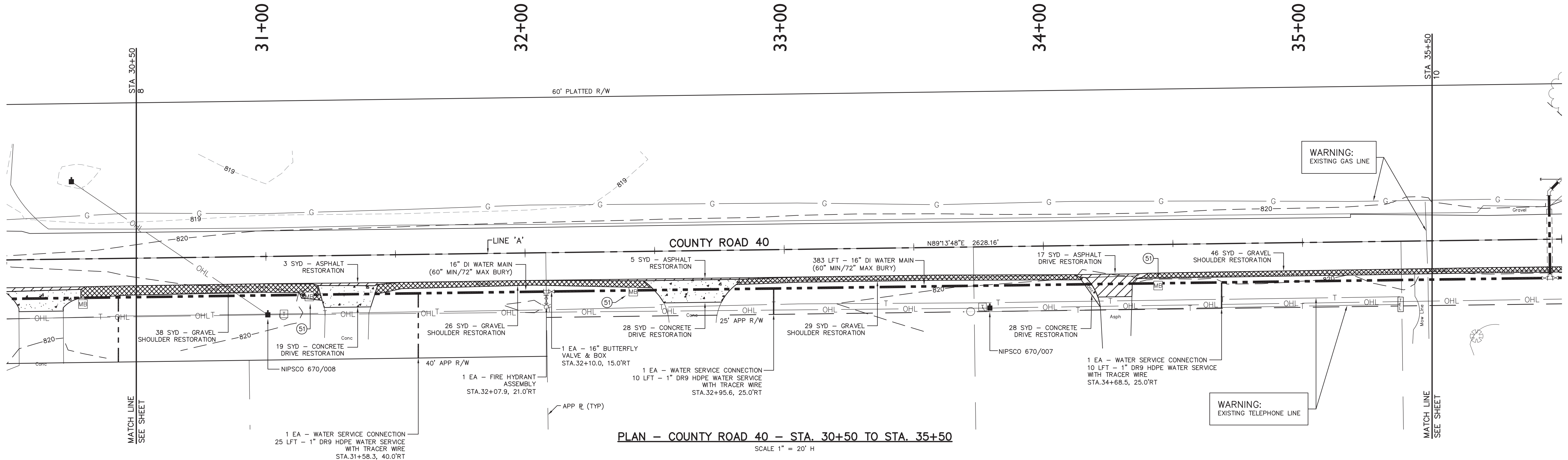
CHIRAG PATEL
REGISTERED
NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER

6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN
304 E. JEFFERSON
GOSHEN, IN

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1" = 20' H, 5' V

8



PLAN - COUNTY ROAD 40 - STA. 30+50 TO STA. 35+50
SCALE 1" = 20' H

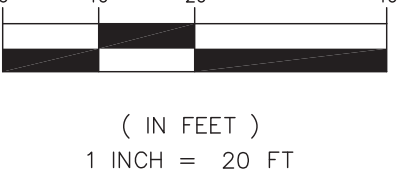
LEGEND (C.R. 40)

- FULL DEPTH PAVEMENT REPLACEMENT 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER 2" (220#/SYD) HMA INTERMEDIATE NO. 8 OR 9, OVER 3" (330#/SYD) HMA BASE NO. 5, OVER 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
- 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER COMPACTED SUBGRADE (IF REQUIRED)
- GRAVEL DRIVE RESTORATION
- HMA DRIVE RESTORATION
- CONCRETE DRIVE RESTORATION
- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

NOTES:

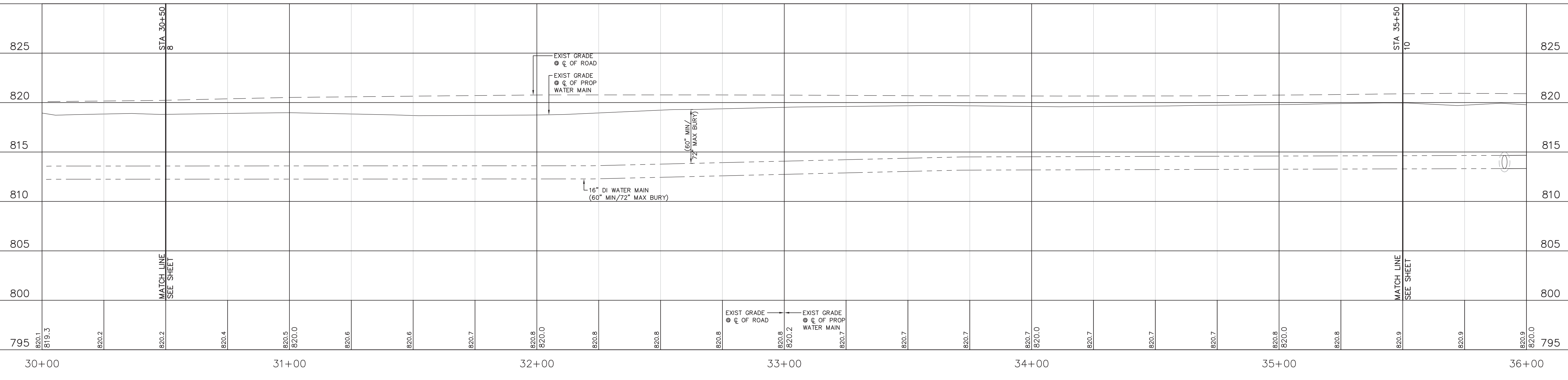
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3. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE APPROVED EROSION CONTROL PLAN. SEE SHEET 26 THRU 29 FOR MINIMUM PLAN AND DETAILS.
4. COORDINATE TEMPORARY RESTRAINT OF EXIST UTILITY POLES AND/OR LINES AS NECESSARY.
5. CONTRACTOR TO MAINTAIN UNINTERRUPTED MAIL SERVICE TO ALL RESIDENTS FOR THE DURATION OF THE PROJECT.
6. WATER SERVICE LEADS AS SHOWN ON PLANS ARE FOR GENERAL REFERENCE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATION IN THE FIELD WITH ADJACENT PROPERTY OWNERS AS TO FINAL LOCATION OF WATER SERVICE LEADS. FINAL COORDINATION LOCATION TO BE APPROVED BY ENGINEER. COORDINATION WORK IS INCIDENTAL TO EACH WATER SERVICE CONNECTION.
7. CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES SERVICING ADJACENT PROPERTIES EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED BY THE LOCAL MUNICIPALITY.
8. CONTRACTOR SHALL NOT INTERRUPT MAIL SERVICE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO REINSTALL ALL MAILBOXES ONCE THE PIPE HAS BEEN LAID AND BACKFILLED TO MAINTAIN UNINTERRUPTED MAIL DELIVERY.

GRAPHIC SCALE



LEGEND

- EXISTING MONUMENT
- SANITARY MANHOLE
- GAS VALVE
- GAS MARKER
- GUY ANCHORS
- LIGHT POLE
- POWER POLE
- YARD LIGHT
- TELEPHONE VAULT
- TELEPHONE PEDESTAL
- TELEPHONE HANDHOLE
- TELEPHONE MARKER
- FIBER OPTIC MARKER
- FIRE HYDRANT
- WATER VALVE
- POST
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- ROCKS/BOULDERS
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- STORM LINE
- FORCE MAIN
- GAS LINE
- OVERHEAD LINE
- ELECTRIC LINE
- FIBER OPTIC LINE
- TELEPHONE LINE
- WATER LINE
- WOOD FENCE
- CHAIN LINK TYPE FENCE
- FENCE
- SPLIT RAIL FENCE
- FARM FIELD TYPE FENCE
- TREELINE
- BRUSHLINE



PROFILE - COUNTY ROAD 40 - STA. 30+50 TO STA. 35+50
SCALE 1" = 20' H, 5' V

	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17	REVISED PER INDOT REVIEW COMMENTS	5-3-17	
	REVISED PER REVIEW COMMENTS		REVISED PER SUBMITTAL	3-14-17	
	REVISED PER PRELIMINARY REVIEW		REVISED PER PRELIMINARY REVIEW	12-16-16	
	DESCRIPTION		DATE		
	BY		BY		

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TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA
Phone: (317) 438-3448
Email: terr@tee-k.com

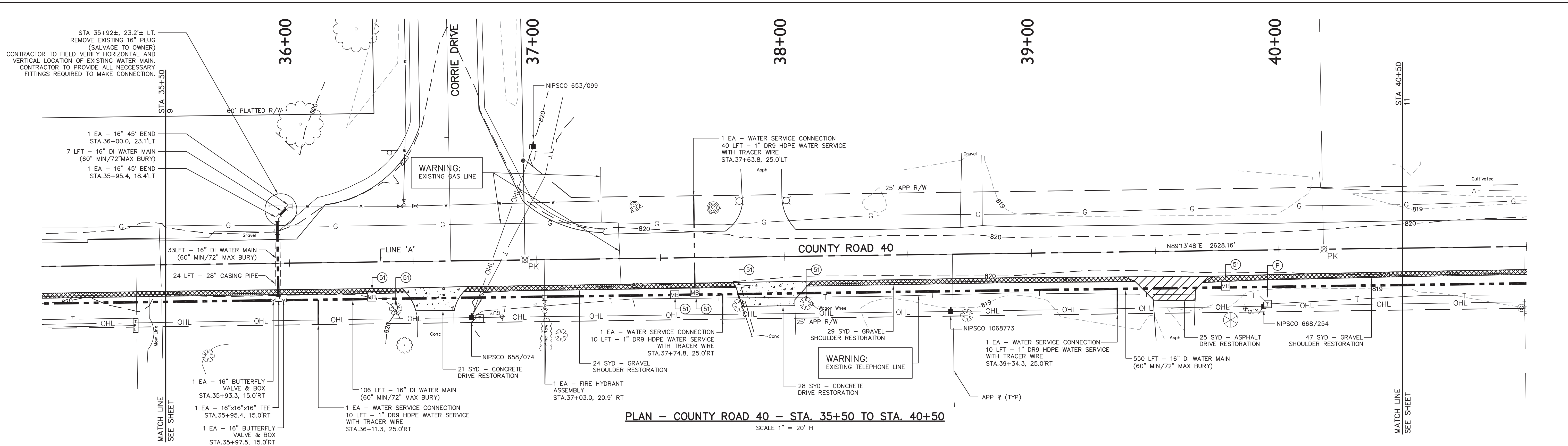
JPR JONES PETRIE RAFINSKI
your one single source
South Bend, Indiana
P: 574.332.1888
Elkhart, Indiana
P: 574.297.7762
Form: WY06a, Indiana
P: 260.422.2522
P: 260.422.2522

CHIRAG PATEL
REGISTERED
NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1" = 20' H, 5' V

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN
304 E. JEFFERSON
GOSHEN, IN
PLAN & PROFILE - COUNTY ROAD 40
STA. 30+50 TO STA. 35+50

9



PLAN - COUNTY ROAD 40 - STA. 35+50 TO STA. 40+50
SCALE 1" = 20' H

LEGEND (C.R. 40)

- FULL DEPTH PAVEMENT REPLACEMENT
- 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER
- 2" (220#/SYD) HMA INTERMEDIATE NO. 8 OR 9, OVER
- 3" (330#/SYD) HMA BASE NO. 5, OVER
- 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
- 2" WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER COMPACTED SUBGRADE (IF REQUIRED)
- GRAVEL DRIVE RESTORATION
- HMA DRIVE RESTORATION
- CONCRETE DRIVE RESTORATION
- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

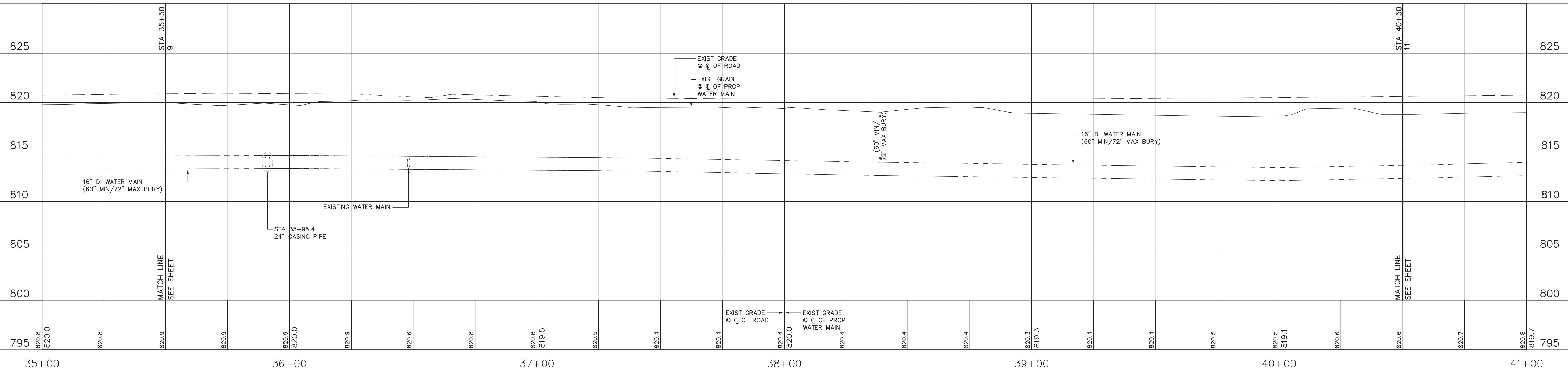
NOTES:

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LEGEND

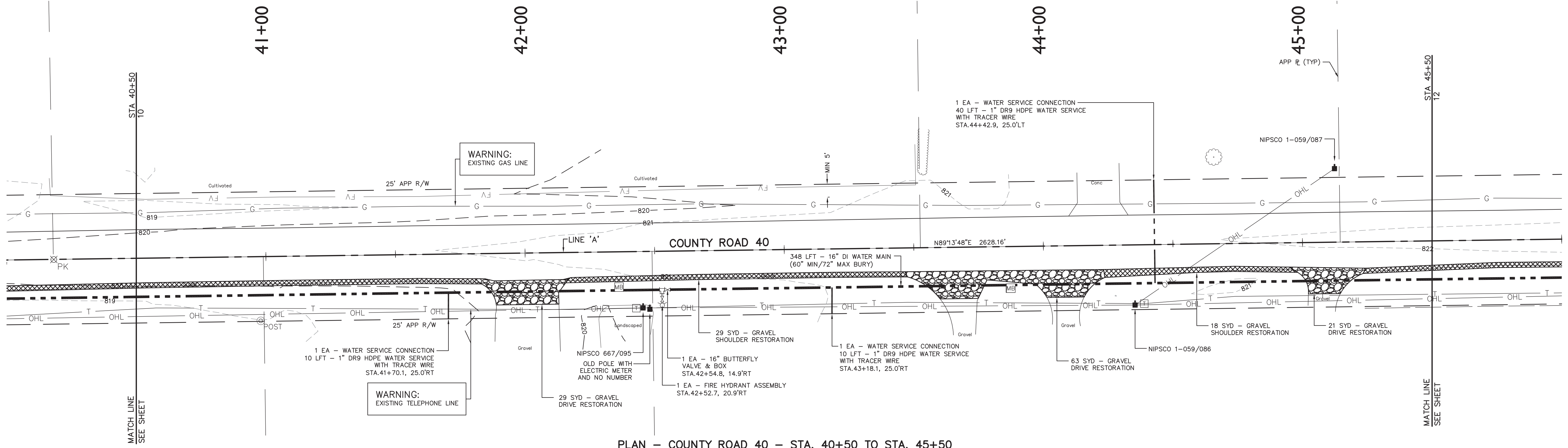
- EXISTING MONUMENT
- SANITARY MANHOLE
- GAS VALVE
- GAS MARKER
- GUY ANCHORS
- LIGHT POLE
- POWER POLE
- YARD LIGHT
- TELEPHONE VAULT
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- OVERHEAD LINE
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- FIBER OPTIC LINE
- TELEPHONE LINE
- WATER LINE
- WOOD FENCE
- CHAIN LINK TYPE FENCE
- FENCE
- SPLIT RAIL FENCE
- FARM FIELD TYPE FENCE
- TREELINE
- BRUSHLINE

GRAPHIC SCALE



PROFILE - COUNTY ROAD 40 - STA. 35+50 TO STA. 40+50
SCALE 1" = 20' H, 5' V

REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17	REVISED PER INDOT REVIEW COMMENTS	5-3-17	REVISED PER REVIEW COMMENTS	3-14-17	REVISED PER PRELIMINARY REVIEW	12-16-16	REVISED PER PRELIMINARY REVIEW	11-23-16	DATE	
5	4	3	2	1	REV	BY	DATE	The concepts, designs, plans, details and other information shown on this document are the sole property of JPR and were created, developed, and presented for use on this specific project. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of JPR. © 2017 JPR. All Rights Reserved.			
<p>DESIGNED BY: CHIRAG PATEL</p> <p>DRAWN BY: REZ</p> <p>DATE: DECEMBER 2016</p> <p>JOB NUMBER: 2017-0012</p> <p>SCALE: 1" = 20' H, 5' V</p> <p style="text-align: right; font-size: 24px; font-weight: bold;">10</p>											
<p>COUNTY ROAD 40 / U.S. HIGHWAY 33 WATER UTILITY EXTENSION CITY OF GOSHEN 204 E. JEFFERSON GOSHEN, IN</p> <p>PLAN & PROFILE - COUNTY ROAD 40 STA. 35+50 TO STA. 40+50</p>											



PLAN - COUNTY ROAD 40 - STA. 40+50 TO STA. 45+50
SCALE 1" = 20' H

LEGEND (C.R. 40)

- FULL DEPTH PAVEMENT REPLACEMENT
1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER
2" (220#/SYD) HMA INTERMEDIATE NO. 9 OR 9, OVER
3" (330#/SYD) HMA BASE NO. 5, OVER
8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER
COMPACTED SUBGRADE
- 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER
COMPACTED SUBGRADE (IF REQUIRED)
- GRAVEL DRIVE RESTORATION
- HMA DRIVE RESTORATION
- CONCRETE DRIVE RESTORATION
- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

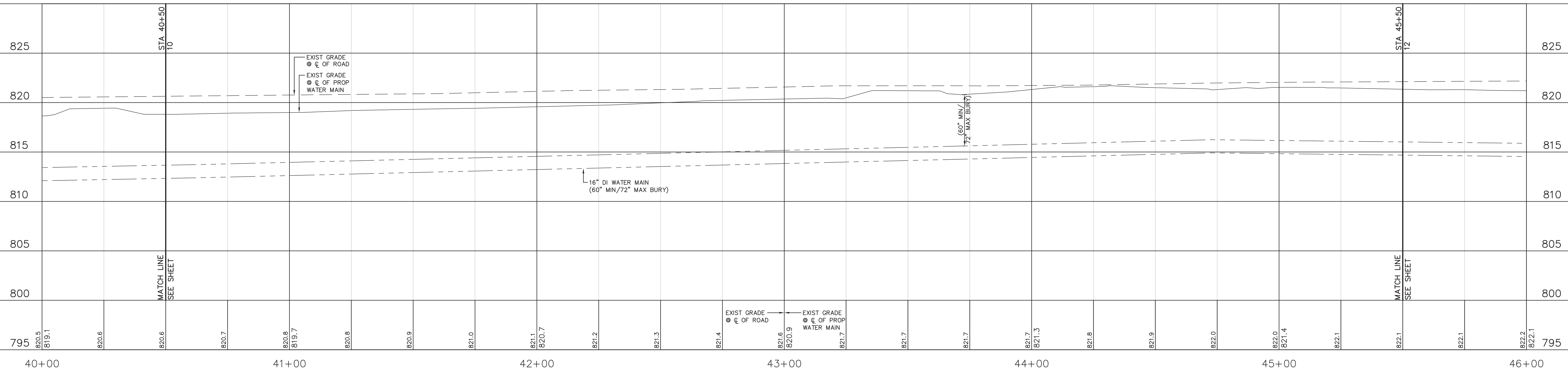
NOTES:

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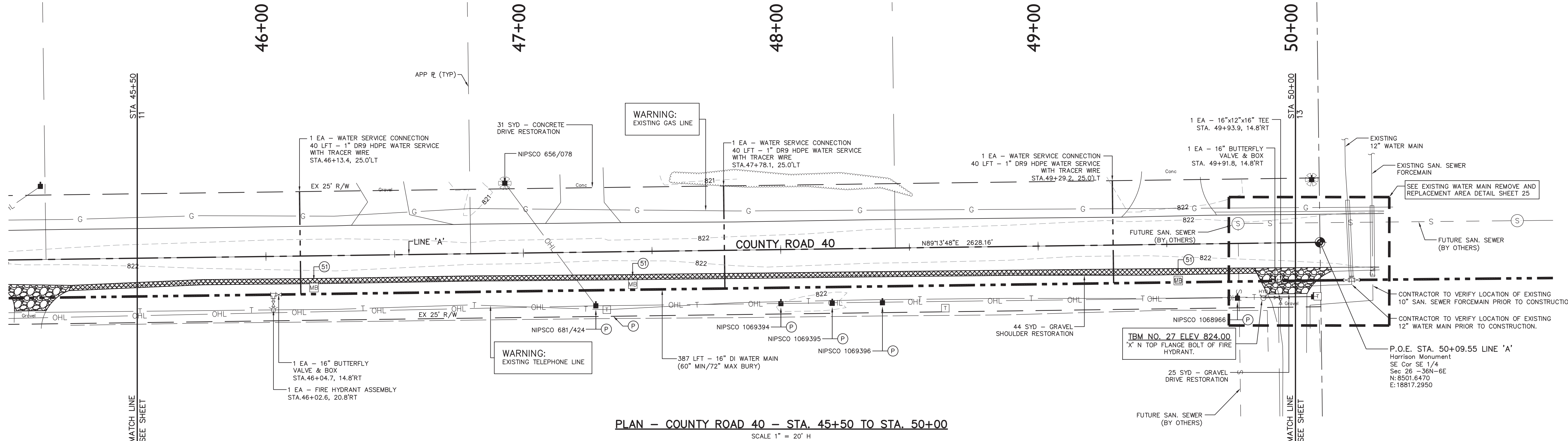
LEGEND

- EXISTING MONUMENT
- SANITARY MANHOLE
- GAS VALVE
- GAS MARKER
- GUY ANCHORS
- LIGHT POLE
- POWER POLE
- YARD LIGHT
- TELEPHONE VAULT
- TELEPHONE PEDESTAL
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- FIBER OPTIC LINE
- TELEPHONE LINE
- WATER LINE
- WOOD FENCE
- CHAIN LINK TYPE FENCE
- FENCE
- SPLIT RAIL FENCE
- FARM FIELD TYPE FENCE
- TREELINE
- BRUSHLINE



PROFILE - COUNTY ROAD 40 - STA. 40+50 TO STA. 45+50
SCALE 1" = 20' H, 5' V

	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REVISED PER INDOT REVIEW COMMENTS	REVISED PER REVIEW COMMENTS	REVISED PER PRELIMINARY REVIEW	DATE
5	4	3	2	1	
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<p>TERRITORIAL ENGINEERING, LLC WALKERTON - INDIANA</p>					
<p>JPR JONES PETRIE RAFINSKI your one single source</p>					
<p>Chirag Patel Professional Engineer No. 111200182 State of Indiana</p>					
<p>6/2/2017</p>					
<p>COUNTY ROAD 40 / U.S. HIGHWAY 33 WATER UTILITY EXTENSION CITY OF GOSHEN</p>					
<p>DESIGNED BY: CHIRAG PATEL DRAWN BY: REZ DATE: DECEMBER 2016 JOB NUMBER: 2017-0012 SCALE: 1" = 20' H, 5' V</p>					
<p>11</p>					



PLAN - COUNTY ROAD 40 - STA. 45+50 TO STA. 50+00
SCALE 1" = 20' H

LEGEND (C.R. 40)

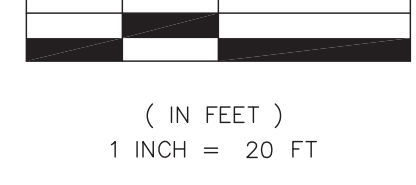
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2" (220#/SYD) HMA INTERMEDIATE NO. 8 OR 9, OVER
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8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER
COMPACTED SUBGRADE
- 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER
COMPACTED SUBGRADE (IF REQUIRED)
- GRAVEL DRIVE RESTORATION
- HMA DRIVE RESTORATION
- CONCRETE DRIVE RESTORATION

- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

NOTES:

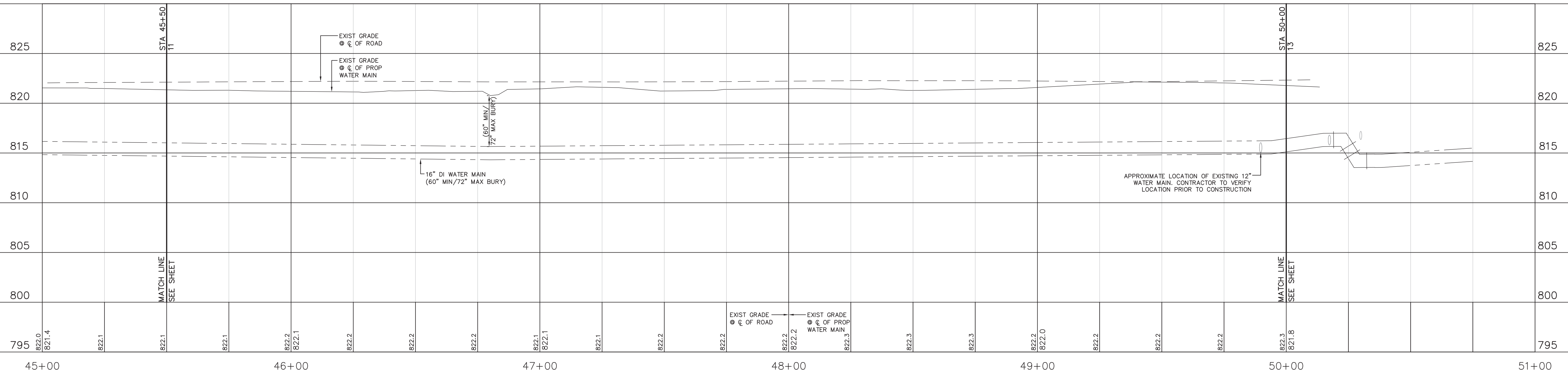
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GRAPHIC SCALE



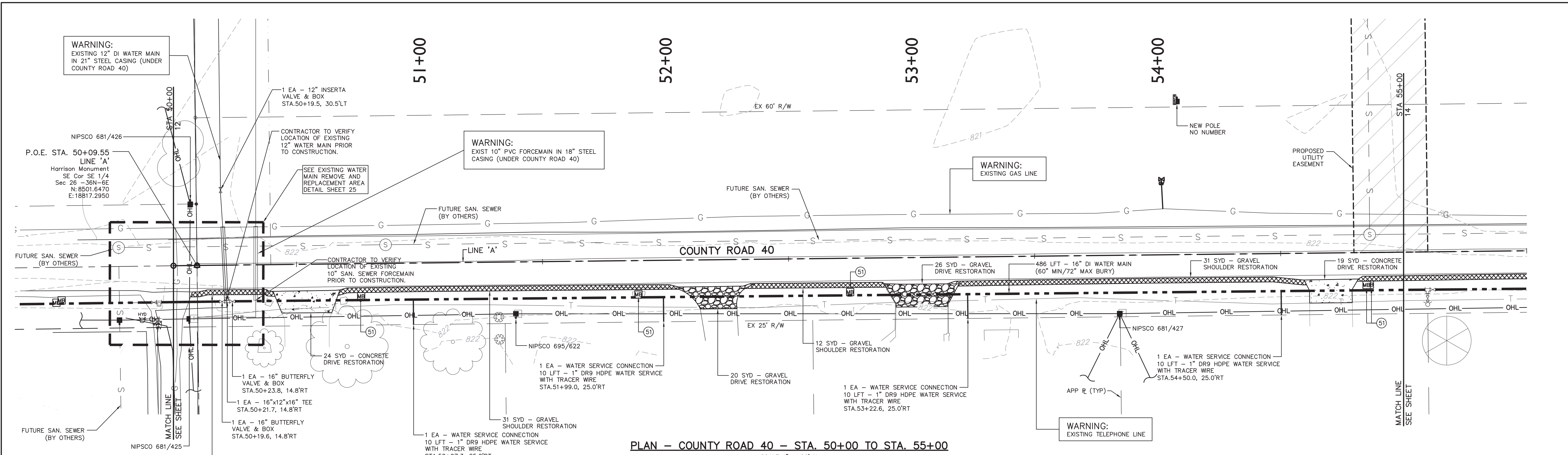
LEGEND

- | | | | | | |
|--|--------------------|--|-----------------|--|-----------------------|
| | EXISTING MONUMENT | | SHRUB | | STORM LINE |
| | SANITARY MANHOLE | | STUMP | | FORCE MAIN |
| | GAS VALVE | | ORNAMENTAL TREE | | GAS LINE |
| | GAS MARKER | | DECIDUOUS TREE | | OVERHEAD LINE |
| | GUY ANCHORS | | CONIFEROUS TREE | | ELECTRIC LINE |
| | LIGHT POLE | | | | FIBER OPTIC LINE |
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| | WATER VALVE | | | | BRUSHLINE |
| | POST | | | | |
| | MAILBOX | | | | |
| | ROCKS/BOULDERS | | | | |
| | SIGN | | | | |
| | STOP SIGN | | | | |



PROFILE - COUNTY ROAD 40 - STA. 45+50 TO STA. 50+00
SCALE 1" = 20' H, 5' V

	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17	REVISED PER INDOT REVIEW COMMENTS	5-3-17	REVISED PER REVIEW COMMENTS	3-14-17	REVIEW SUBMITTAL	12-16-16	REVISED PER PRELIMINARY REVIEW	11-23-16	DATE
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JPR JONES PETRIE RAFINSKI your one single source South Bend, Indiana P: 574.332.1888 Elkhart, Indiana P: 574.297.7762 Fort Wayne, Indiana P: 260.422.2822 Phone: (574) 332-3448 Email: terr@ter-k.com Website: www.ter-k.com											
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DESIGNED BY: CHIRAG PATEL DRAWN BY: REZ DATE: DECEMBER 2016 JOB NUMBER: 2017-0012 SCALE: 1" = 20' H, 5' V											
12											



PLAN - COUNTY ROAD 40 - STA. 50+00 TO STA. 55+00
SCALE 1" = 20' H

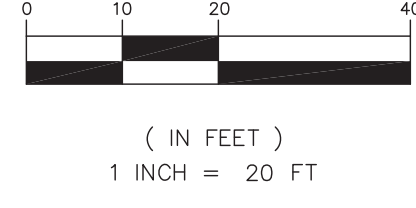
LEGEND (C.R. 40)

- FULL DEPTH PAVEMENT REPLACEMENT
1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER
2" (220#/SYD) HMA INTERMEDIATE NO. 8 OR 9, OVER
3" (330#/SYD) HMA BASE NO. 5, OVER
8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER
COMPACTED SUBGRADE
- 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER
COMPACTED SUBGRADE (IF REQUIRED)
- GRAVEL DRIVE RESTORATION
- HMA DRIVE RESTORATION
- CONCRETE DRIVE RESTORATION
- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

NOTES:

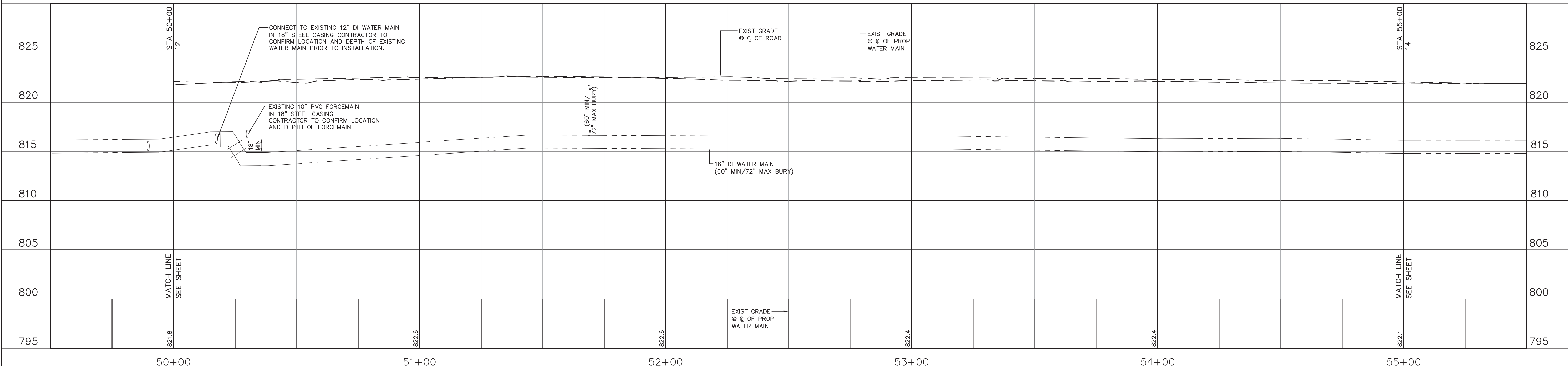
1. CONTRACTOR SHALL ACCURATELY RESTORE SIDE SWALES ALONG COUNTY ROAD 40 AND U.S. HIGHWAY 33 WITHIN THE EXISTING RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION.
2. CONTRACTOR SHALL RESEED THE DISTURBED AREAS WITH GRASS SEED CONFORMING TO THE SPECIFICATIONS. RESTORATION SHALL BE PERFORMED PROGRESSIVELY PER THE PROJECT SPECIFICATIONS.
3. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE APPROVED EROSION CONTROL PLAN. SEE SHEET 28 THRU 29 FOR MINIMUM PLAN AND DETAILS.
4. COORDINATE TEMPORARY RESTRAINT OF EXIST UTILITY POLES AND/OR LINES AS NECESSARY.
5. CONTRACTOR TO MAINTAIN UNINTERRUPTED MAIL SERVICE TO ALL RESIDENTS FOR THE DURATION OF THE PROJECT.
6. WATER SERVICE LEADS AS SHOWN ON PLANS ARE FOR GENERAL REFERENCE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATION IN THE FIELD WITH ADJACENT PROPERTY OWNERS AS TO FINAL LOCATION OF WATER SERVICE LEADS. FINAL COORDINATION LOCATION TO BE APPROVED BY ENGINEER. COORDINATION WORK IS INCIDENTAL TO EACH WATER SERVICE CONNECTION.
7. CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT PROPERTIES EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED BY THE LOCAL MUNICIPALITY.
8. CONTRACTOR SHALL NOT INTERRUPT MAIL SERVICE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO REINSTALL ALL MAILBOXES ONCE THE PIPE HAS BEEN LAID AND BACKFILLED TO MAINTAIN UNINTERRUPTED MAIL DELIVERY.

GRAPHIC SCALE



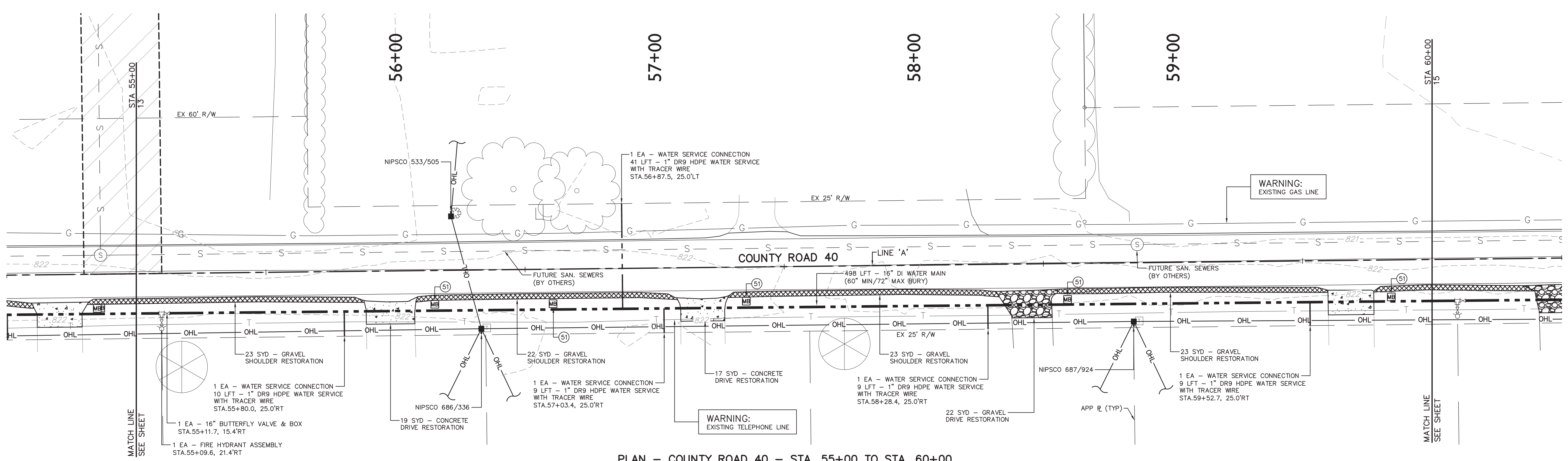
LEGEND

- EXISTING MONUMENT
- SANITARY MANHOLE
- GAS VALVE
- GAS MARKER
- GUY ANCHORS
- LIGHT POLE
- POWER POLE
- YARD LIGHT
- TELEPHONE VAULT
- TELEPHONE PEDESTAL
- TELEPHONE HANDHOLE
- TELEPHONE MARKER
- FIBER OPTIC MARKER
- FIRE HYDRANT
- WATER VALVE
- POST
- MAILBOX
- ROCKS/BOULDERS
- SIGN
- STOP SIGN
- SHRUB
- STUMP
- ORNAMENTAL TREE
- DECIDUOUS TREE
- CONIFEROUS TREE
- STORM LINE
- FORCE MAIN
- GAS LINE
- OVERHEAD LINE
- ELECTRIC LINE
- FIBER OPTIC LINE
- TELEPHONE LINE
- WATER LINE
- WOOD FENCE
- CHAIN LINK TYPE FENCE
- FENCE
- SPLIT RAIL FENCE
- FARM FIELD TYPE FENCE
- TREELINE
- BRUSHLINE



PROFILE - COUNTY ROAD 40 - STA. 50+00 TO STA. 55+00
SCALE 1" = 20' H, 5' V

REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17								
REVISED PER INDOT REVIEW COMMENTS	5-3-17								
REVISED PER REVIEW COMMENTS	3-14-17								
REVIEW SUBMITTAL	12-16-16								
REVISED PER PRELIMINARY REVIEW	11-23-16								
REVISED PER PRELIMINARY REVIEW	11-23-16								
BY	DATE								
DESCRIPTION									
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<p>JPR TERRITORIAL ENGINEERING, LLC WALKERTON - INDIANA</p>									
<p>JPR JONES PETRIE RAFINSKI your one single source</p>									
<p>CHIRAG PATEL REGISTERED PROFESSIONAL ENGINEER NO. 111200182 STATE OF INDIANA</p>									
<p>6/2/2017</p>									
<p>COUNTY ROAD 40 / U.S. HIGHWAY 33 WATER UTILITY EXTENSION CITY OF GOSHEN</p>									
<p>204 E. JEFFERSON GOSHEN, IN</p>									
<p>DESIGNED BY: CHIRAG PATEL</p>									
<p>DRAWN BY: REZ</p>									
<p>DATE: DECEMBER 2016</p>									
<p>JOB NUMBER: 2017-0012</p>									
<p>SCALE: 1" = 20' H, 5' V</p>									
<p>13</p>									



PLAN - COUNTY ROAD 40 - STA. 55+00 TO STA. 60+00
SCALE 1" = 20' H

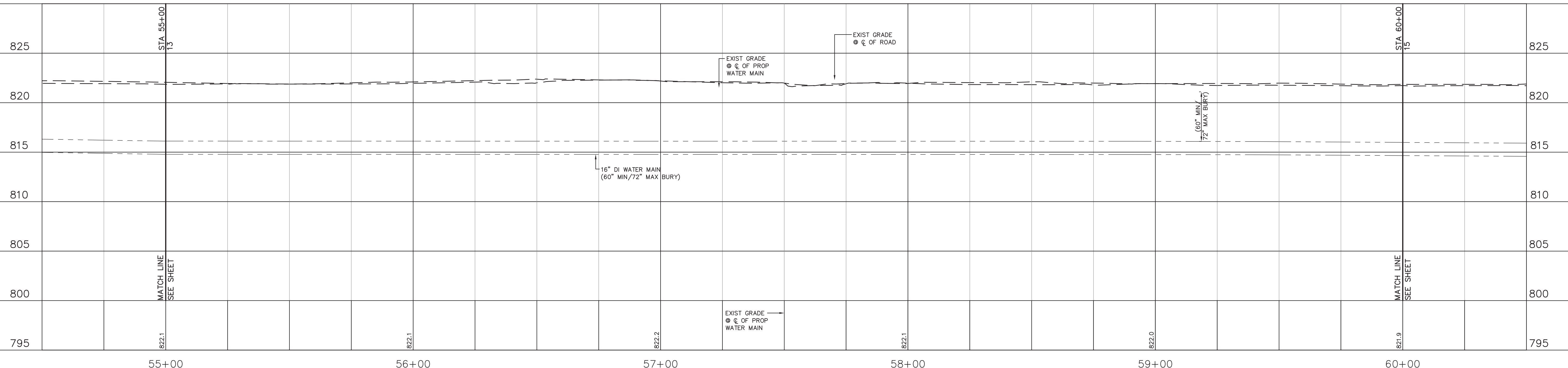
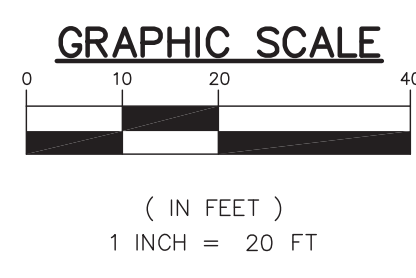
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LEGEND (C.R. 40)

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- 2" (220#/SYD) HMA INTERMEDIATE NO. 8 OR 9, OVER
- 3" (330#/SYD) HMA BASE NO. 5, OVER
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- CONCRETE DRIVE RESTORATION
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- PROTECT
- REMOVE
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LEGEND

- EXISTING MONUMENT
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- GAS VALVE
- GAS MARKER
- GUY ANCHORS
- LIGHT POLE
- POWER POLE
- YARD LIGHT
- TELEPHONE VAULT
- TELEPHONE PEDESTAL
- TELEPHONE HANDHOLE
- TELEPHONE MARKER
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- FIRE HYDRANT
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- TELEPHONE LINE
- WATER LINE
- WOOD FENCE
- CHAIN LINK TYPE FENCE
- FENCE
- SPLIT RAIL FENCE
- FARM FIELD TYPE FENCE
- TREELINE
- BRUSHLINE



PROFILE - COUNTY ROAD 40 - STA. 55+00 TO STA. 60+00
SCALE 1" = 20' H, 5' V

REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17	REZ
REVISED PER INDOT REVIEW COMMENTS	5-3-17	REZ
REVISED PER REVIEW COMMENTS	3-14-17	REZ
REVIEW SUBMITTAL	12-16-16	REZ
REVISED PER PRELIMINARY REVIEW	11-23-16	REZ
DESCRIPTION	BY	DATE

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JPR JONES PETRIE RAFINSKI
your one single source

Chirag Patel
Professional Engineer
No. 111200182
State of Indiana

South Bend, Indiana
P: 574.297.7672

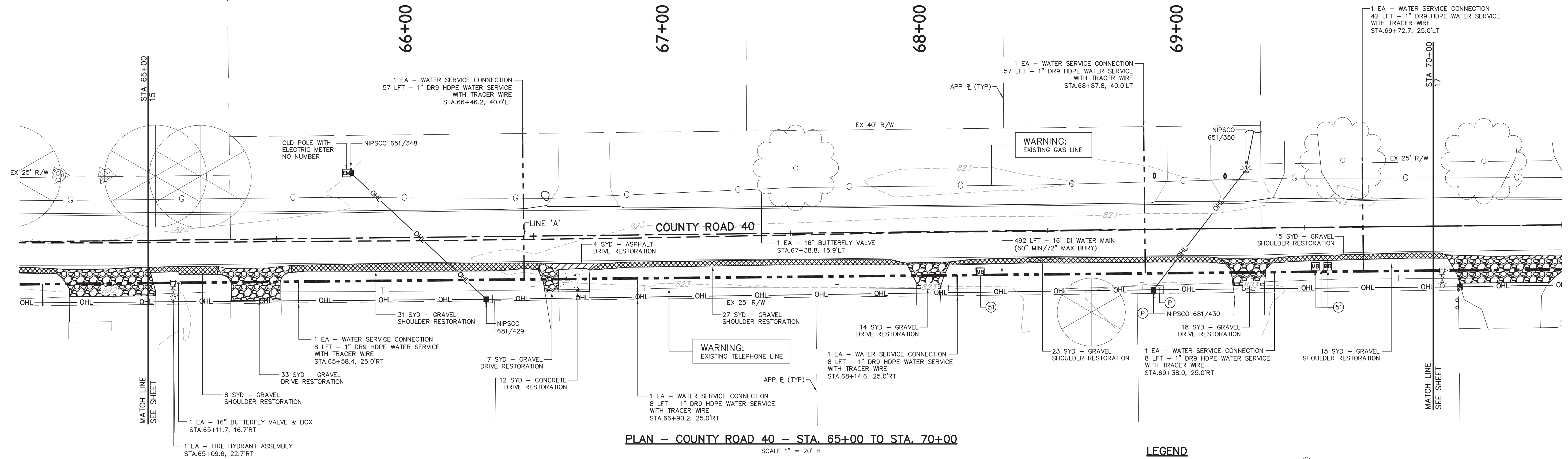
Elkhart, Indiana
P: 574.232.1888

Phone: (574) 288-9448
Email: terr@jpr.com
www.jpr.com

TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA

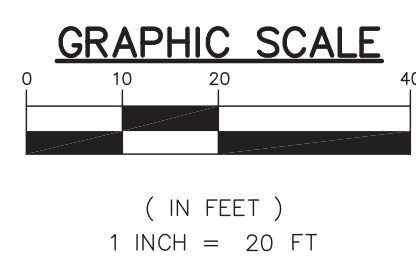
DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1" = 20' H, 5' V

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN
204 E. JEFFERSON
GOSHEN, IN
PLAN & PROFILE - COUNTY ROAD 40
STA. 55+00 TO STA. 60+00



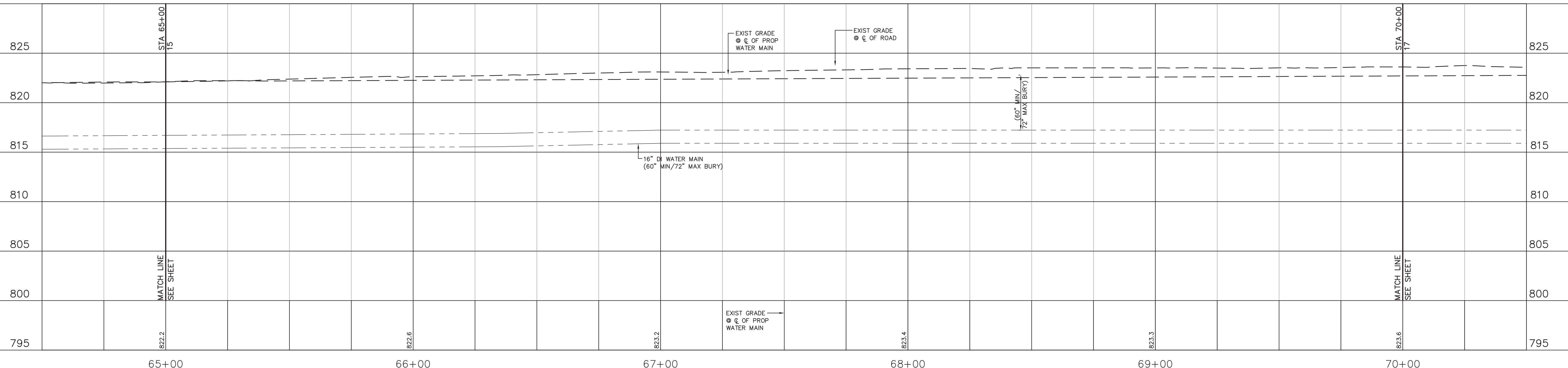
PLAN - COUNTY ROAD 40 - STA. 65+00 TO STA. 70+00
SCALE 1" = 20' H

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- LEGEND**
- | | | | | | | |
|---|--------------------|---|-----------------|-----|----|-----------------------|
| ● | EXISTING MONUMENT | ○ | SHRUB | --- | ST | STORM LINE |
| ○ | SANITARY MANHOLE | ○ | STUMP | --- | FM | FORCE MAIN |
| ○ | GAS VALVE | ○ | ORNAMENTAL TREE | --- | GL | GAS LINE |
| ○ | GAS MARKER | ○ | DECIDUOUS TREE | --- | OL | OVERHEAD LINE |
| ○ | GUY ANCHORS | ○ | CONIFEROUS TREE | --- | E | ELECTRIC LINE |
| ○ | LIGHT POLE | ○ | | --- | FO | FIBER OPTIC LINE |
| ○ | POWER POLE | ○ | | --- | T | TELEPHONE LINE |
| ○ | YARD LIGHT | ○ | | --- | W | WATER LINE |
| ○ | TELEPHONE VAULT | ○ | | --- | X | WOOD FENCE |
| ○ | TELEPHONE PEDESTAL | ○ | | --- | X | CHAIN LINK TYPE FENCE |
| ○ | TELEPHONE HANDHOLE | ○ | | --- | X | FENCE |
| ○ | TELEPHONE MARKER | ○ | | --- | X | SPLIT RAIL FENCE |
| ○ | FIBER OPTIC MARKER | ○ | | --- | X | FARM FIELD TYPE FENCE |
| ○ | FIRE HYDRANT | ○ | | --- | X | TREELINE |
| ○ | WATER VALVE | ○ | | --- | X | BRUSHLINE |
| ○ | POST | ○ | | | | |
| ○ | MAILBOX | ○ | | | | |
| ○ | ROCKS/BOULDERS | ○ | | | | |
| ○ | SIGN | ○ | | | | |
| ○ | STOP SIGN | ○ | | | | |

- LEGEND (C.R. 40)**
- | | | | |
|---|---|-----|---------------------|
| □ | FULL DEPTH PAVEMENT REPLACEMENT | --- | PROPOSED WATER MAIN |
| □ | 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER | ○ | PROTECT |
| □ | 2" (220#/SYD) HMA INTERMEDIATE NO. 8 OR 9, OVER | ○ | REMOVE |
| □ | 3" (330#/SYD) HMA BASE NO. 5, OVER | ○ | RESTORE |
| □ | 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER | ○ | RELOCATE |
| □ | COMPACTED SUBGRADE | | |
| □ | 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER | | |
| □ | COMPACTED SUBGRADE (IF REQUIRED) | | |
| □ | GRAVEL DRIVE RESTORATION | | |
| □ | HMA DRIVE RESTORATION | | |
| □ | CONCRETE DRIVE RESTORATION | | |



PROFILE - COUNTY ROAD 40 - STA. 65+00 TO STA. 70+00
SCALE 1" = 20' H, 5' V

6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ
5-3-17	REVISED PER INDOT REVIEW COMMENTS	REZ
3-14-17	REVISED PER REVIEW COMMENTS	REZ
12-16-16	REVIEW SUBMITTAL	REZ
11-23-16	REVISED PER PRELIMINARY REVIEW	REZ
	DESCRIPTION	BY
	DATE	

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JPR JONES PETRIE RAFINSKI
your one single source

South Bend, Indiana
P: 574.232.1888

Elkhart, Indiana
P: 574.297.7762

Fort Wayne, Indiana
P: 260.422.2322

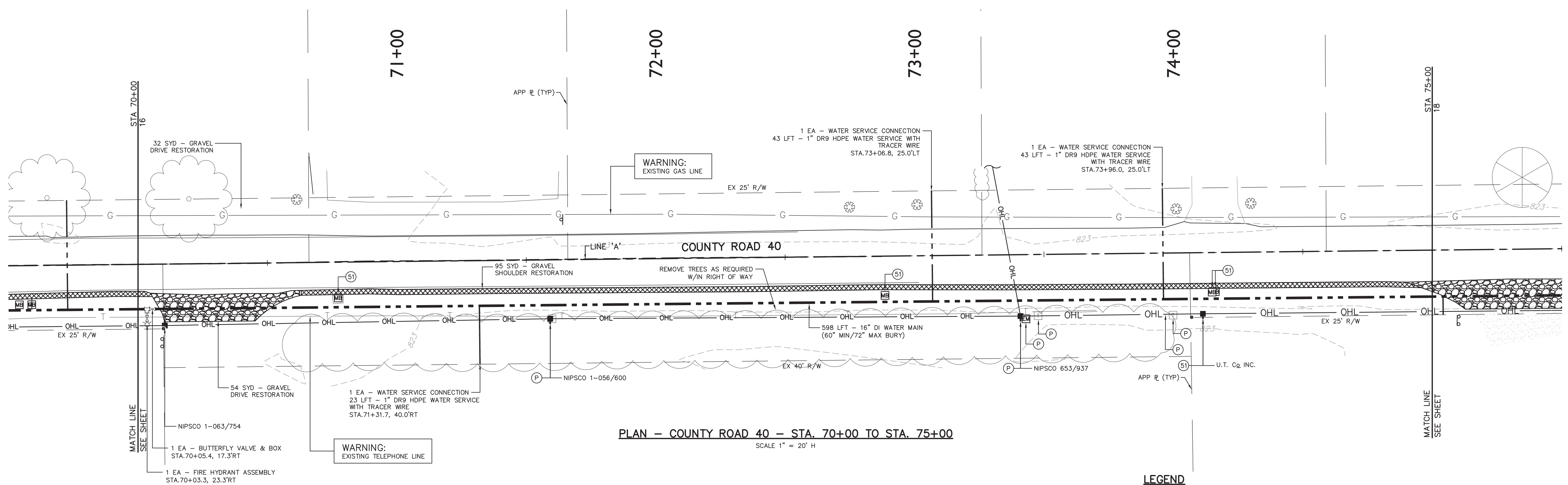
Phone: (574) 232-3448
Email: jpr@jpr.com
www.jpr.com

CHIRAG PATEL
REGISTERED PROFESSIONAL ENGINEER
NO. 111200182
STATE OF INDIANA

6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1" = 20' H, 5' V



PLAN - COUNTY ROAD 40 - STA. 70+00 TO STA. 75+00
SCALE 1" = 20' H

LEGEND (C.R. 40)

- FULL DEPTH PAVEMENT REPLACEMENT
- 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER
- 2" (220#/SYD) HMA INTERMEDIATE NO. 8 OR 9, OVER
- 3" (330#/SYD) HMA BASE NO. 5, OVER
- 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
- 2" WIDE 9" COMPACTED AGGREGATE NO. 53 SHOULDER OVER COMPACTED SUBGRADE (IF REQUIRED)
- GRAVEL DRIVE RESTORATION
- HMA DRIVE RESTORATION
- CONCRETE DRIVE RESTORATION
- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

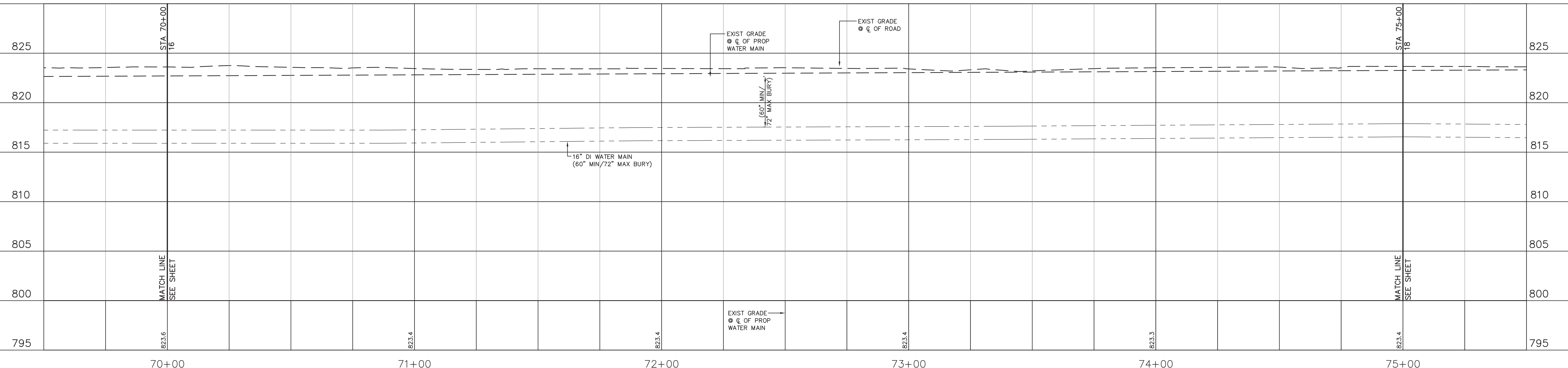
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LEGEND

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PROFILE - COUNTY ROAD 40 - STA. 70+00 TO STA. 75+00
SCALE 1" = 20' H, 5' V

	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17	REZ
	REVISED PER INDOT REVIEW COMMENTS	5-3-17	REZ
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JPR Jones Petrie Rafinski
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South Bend, Indiana
P: 574.297.762

Elkhart, Indiana
P: 574.332.1888

Fort Wayne, Indiana
P: 260.422.2522

Phone: (574) 338-3448
Email: team@jpr.com
P: (574) 338-3888

TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA

CHIRAG PATEL
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NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER

6/2/2017

DESIGNED BY: CHIRAG PATEL

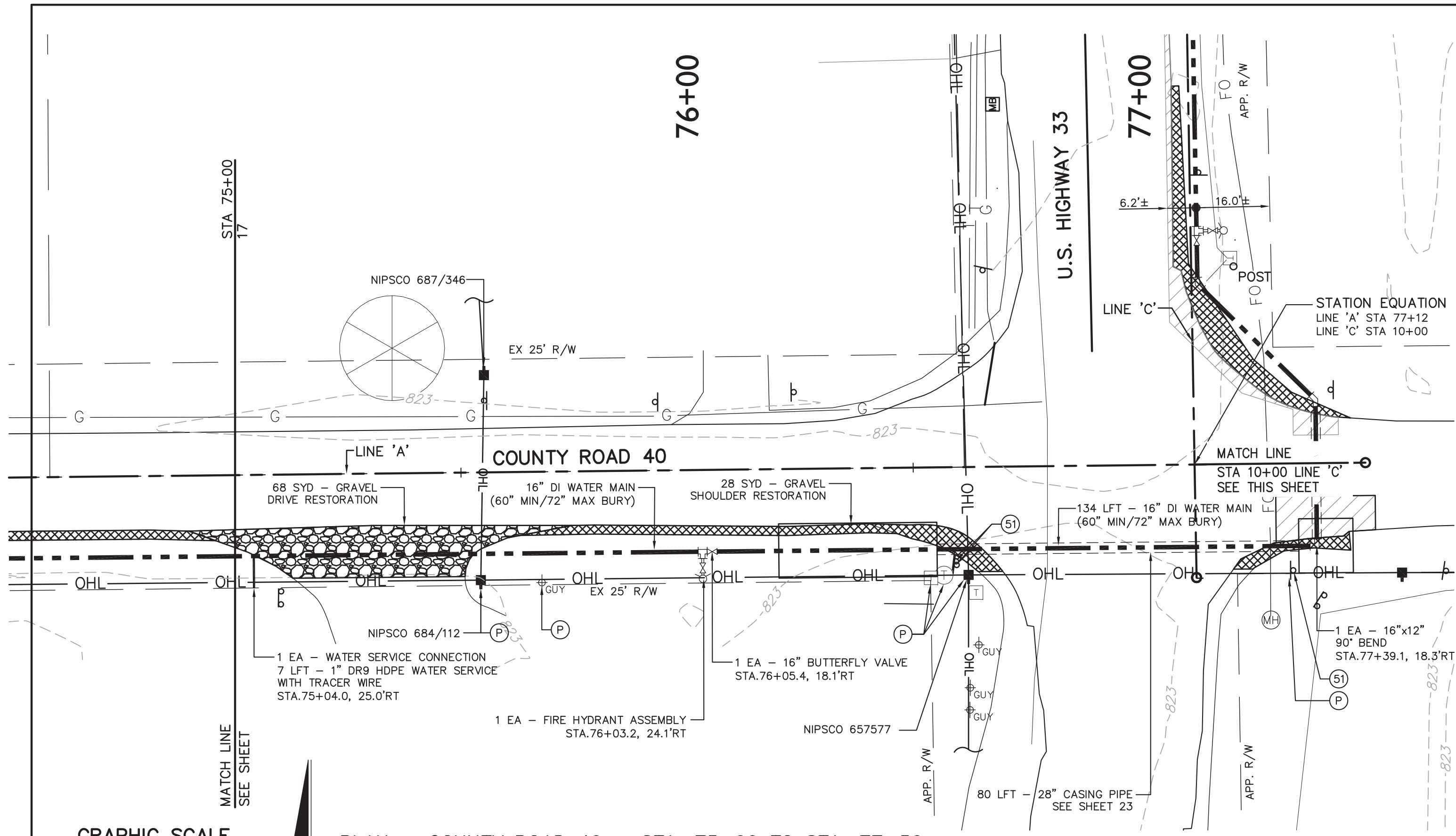
DRAWN BY: REZ

DATE: DECEMBER 2016

JOB NUMBER: 2017-0012

SCALE: 1" = 20' H, 5' V

17



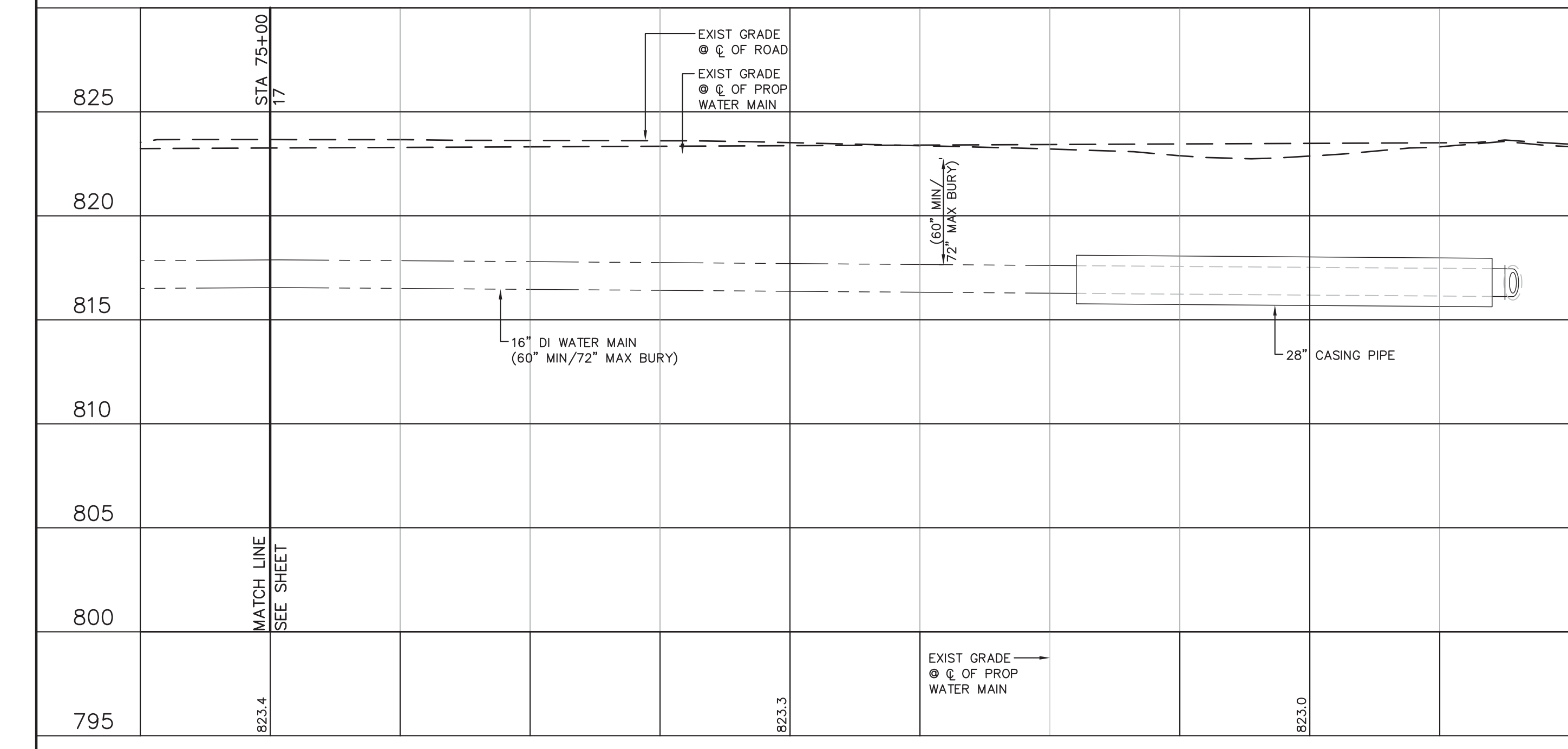
PLAN - COUNTY ROAD 40 - STA. 75+00 TO STA. 77+50

SCALE 1" = 20' H

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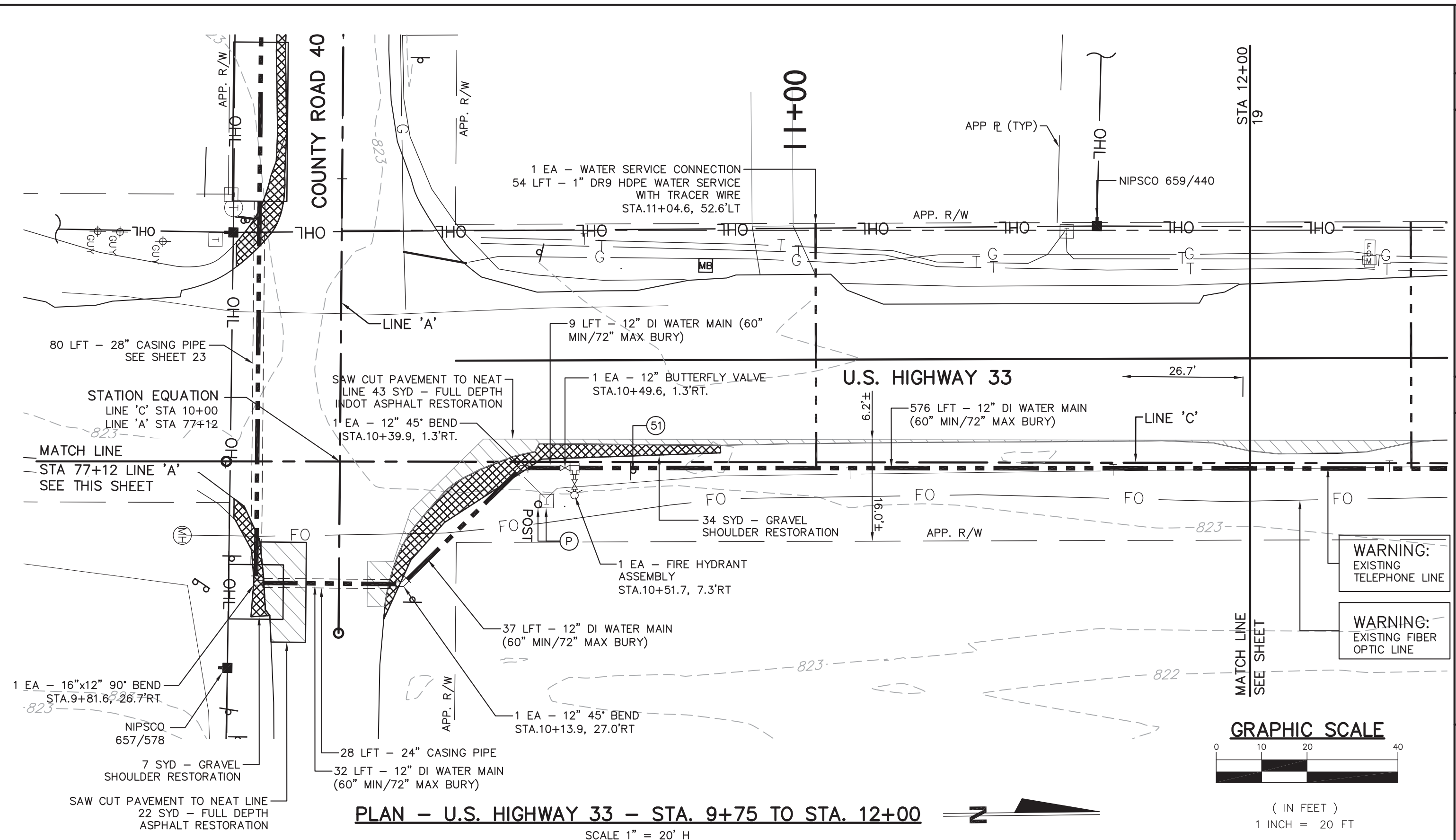
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 - GRAVEL DRIVE RESTORATION
 - HMA DRIVE RESTORATION
 - CONCRETE DRIVE RESTORATION

(IN FEET)
1 INCH = 20 FT



PROFILE - COUNTY ROAD 40 - STA. 75+00 TO STA. 77+50

SCALE 1" = 20' H, 5' V



PLAN - U.S. HIGHWAY 33 - STA. 9+75 TO STA. 12+00

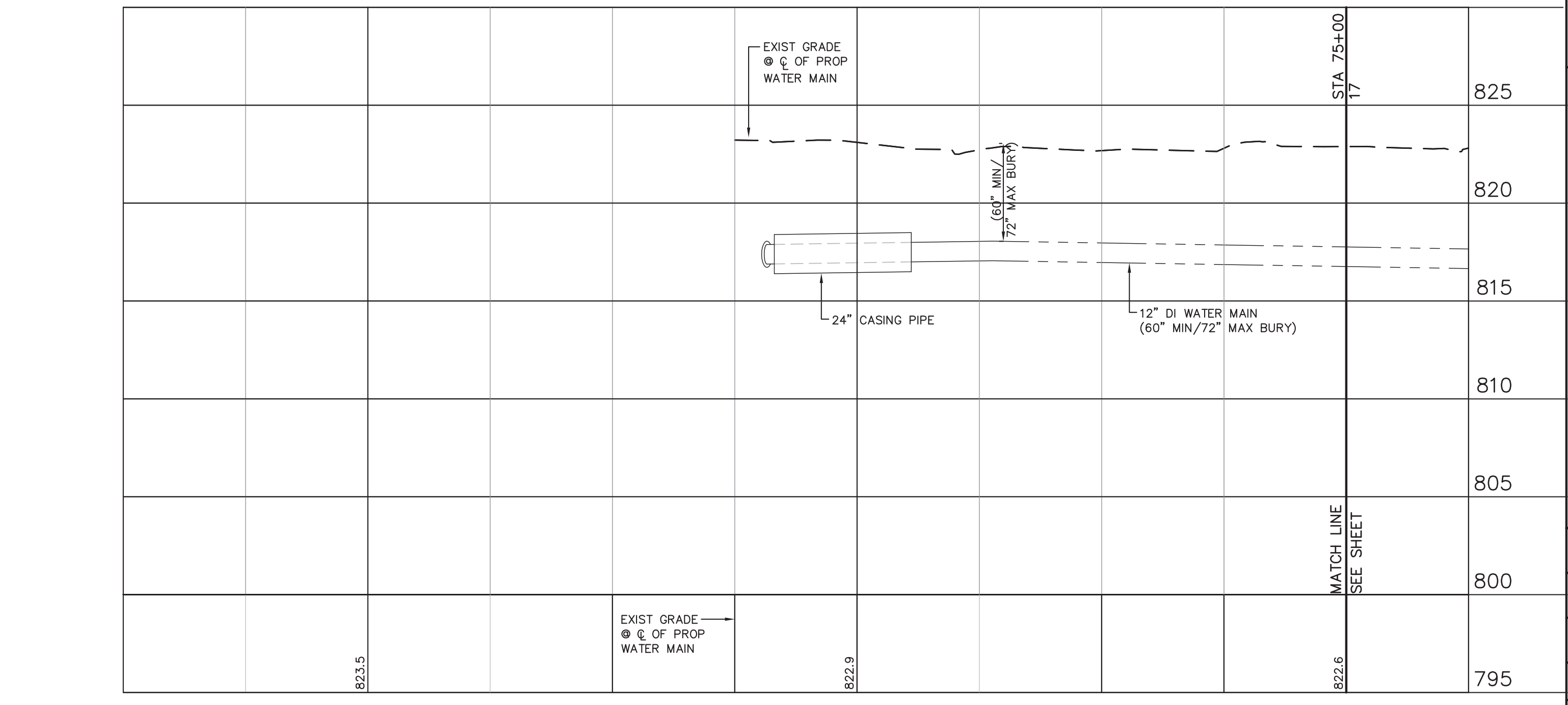
SCALE 1" = 20' H

- LEGEND (INDOT U.S. HIGHWAY 33)**
- FULL DEPTH INDOT BITUMINOUS PAVEMENT REPLACEMENT
 - 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER
 - 12" (1320#/SYD) HMA BASE NO. 5, OVER
 - 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
 - FULL DEPTH INDOT CONCRETE PAVEMENT REPLACEMENT
 - DEPTH OF CONCRETE PAVEMENT SHALL BE THE SAME AS THE REMOVED PAVEMENT EXCEPT IT SHALL BE A MINIMUM OF 9 INCHES.
 - NOTE: SEE SPECIFICATIONS FOR INDOT RIGHT-OF-WAY PERMIT SPECIAL PROVISIONS REGARDING PAVEMENT REPLACEMENT. SEE DETAIL SHEET 24.
 - 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER COMPACTED SUBGRADE (IF REQUIRED)
 - GRAVEL DRIVE RESTORATION
 - HMA DRIVE RESTORATION
 - CONCRETE DRIVE RESTORATION

- PROTECT
- REMOVE
- RESTORE
- RELOCATE

- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

- LEGEND**
- EXISTING MONUMENT
 - SANITARY MANHOLE
 - GAS VALVE
 - GAS MARKER
 - GUY ANCHORS
 - LIGHT POLE
 - POWER POLE
 - YARD LIGHT
 - TELEPHONE VAULT
 - TELEPHONE PEDESTAL
 - TELEPHONE HANDHOLE
 - TELEPHONE MARKER
 - FIBER OPTIC MARKER
 - FIRE HYDRANT
 - WATER VALVE
 - POST
 - MAILBOX
 - ROCKS/BOULDERS
 - SIGN
 - STOP SIGN
 - SHRUB
 - STUMP
 - ORNAMENTAL TREE
 - DECIDUOUS TREE
 - CONIFEROUS TREE
 - STORM LINE
 - FORCE MAIN
 - GAS LINE
 - OVERHEAD LINE
 - ELECTRIC LINE
 - FIBER OPTIC LINE
 - TELEPHONE LINE
 - WATER LINE
 - WOOD FENCE
 - CHAIN LINK FENCE
 - FENCE
 - SPLIT RAIL FENCE
 - FARM FIELD FENCE
 - TREELINE
 - BRUSHLINE



PROFILE - U.S. HIGHWAY 33 - STA. 9+75 TO STA. 12+00

SCALE 1" = 20' H, 5' V

6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ
5-3-17	REVISED PER INDOT REVIEW COMMENTS	REZ
3-14-17	REVISED PER REVIEW COMMENTS	REZ
12-16-16	REVIEW SUBMITTAL	REZ
11-23-16	REVISED PER PRELIMINARY REVIEW	REZ
	DESCRIPTION	BY
	DATE	

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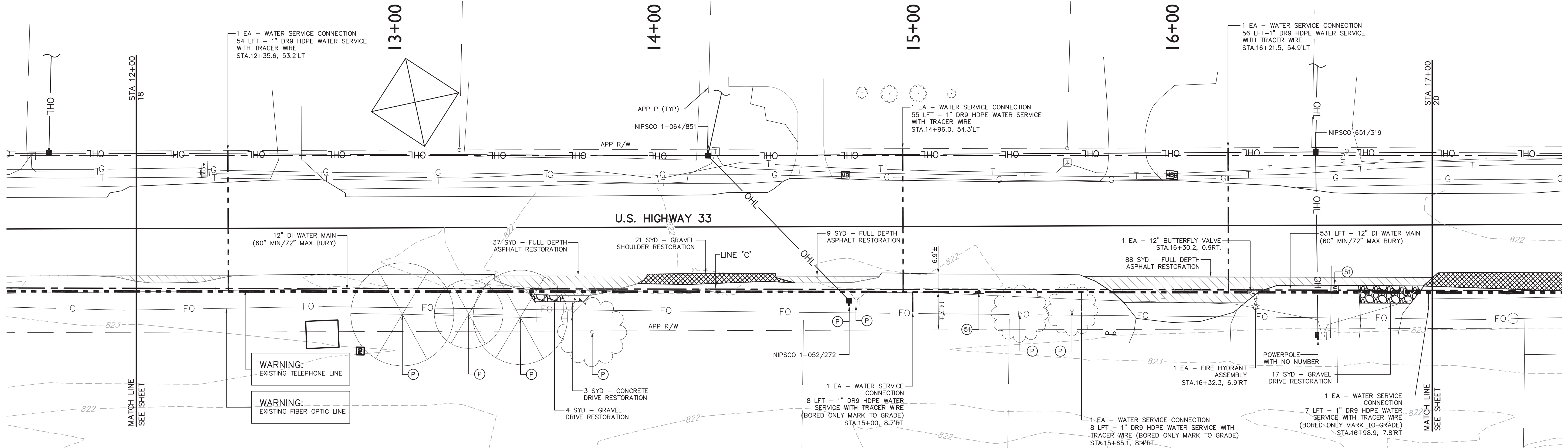
JPR JONES PETRIE RAFINSKI
your one single source

Chirag Patel
Professional Engineer
No. 111200182
State of Indiana

204 E. JEFFERSON
GOSHEN, IN 46525
317.432.1888

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1" = 20' H, 5' V

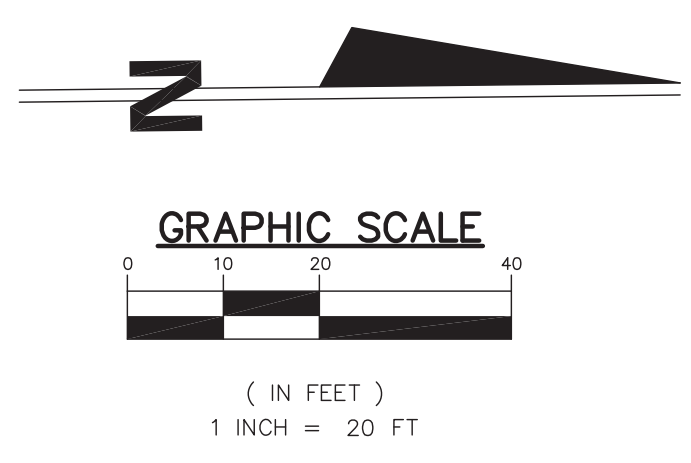
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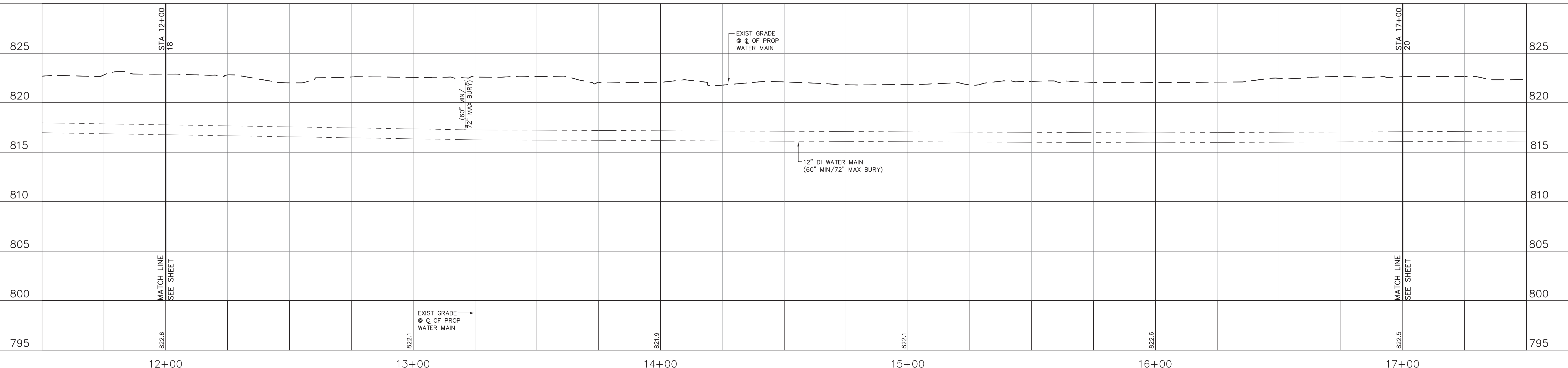
PLAN - U.S. HIGHWAY 33 - STA. 12+00 TO STA. 17+00
SCALE 1" = 20' H

- LEGEND (INDOT U.S. HIGHWAY 33)**
- FULL DEPTH INDOT BITUMINOUS PAVEMENT REPLACEMENT 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER 12" (1320#/SYD) HMA BASE NO. 5, OVER 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
 - FULL DEPTH INDOT CONCRETE PAVEMENT REPLACEMENT DEPTH OF CONCRETE PAVEMENT SHALL BE THE SAME AS THE REMOVED PAVEMENT EXCEPT IT SHALL BE A MINIMUM OF 9 INCHES
 - 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER COMPACTED SUBGRADE (IF REQUIRED)
 - GRAVEL DRIVE RESTORATION
 - HMA DRIVE RESTORATION
 - CONCRETE DRIVE RESTORATION
 - PROPOSED WATER MAIN
 - PROTECT
 - REMOVE
 - RESTORE
 - RELOCATE

- NOTES:**
- CONTRACTOR SHALL ACCURATELY RESTORE SIDE SWALES ALONG COUNTY ROAD 40 AND U.S. HIGHWAY 33 WITHIN THE EXISTING RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION.
 - CONTRACTOR SHALL RESEED THE DISTURBED AREAS WITH GRASS SEED CONFORMING TO THE SPECIFICATIONS. RESTORATION SHALL BE PERFORMED PROGRESSIVELY PER THE PROJECT SPECIFICATIONS.
 - CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE APPROVED EROSION CONTROL PLAN. SEE SHEET 28 THRU 29 FOR MINIMUM PLAN AND DETAILS.
 - COORDINATE TEMPORARY RESTRAINT OF EXIST UTILITY POLES AND/OR LINES AS NECESSARY.
 - CONTRACTOR TO MAINTAIN UNINTERRUPTED MAIL SERVICE TO ALL RESIDENTS FOR THE DURATION OF THE PROJECT.
 - WATER SERVICE LEADS AS SHOWN ON PLANS ARE FOR GENERAL REFERENCE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATION IN THE FIELD WITH ADJACENT PROPERTY OWNERS AS TO FINAL LOCATION OF WATER SERVICE LEADS. FINAL COORDINATION LOCATION TO BE APPROVED BY ENGINEER. COORDINATION WORK IS INCIDENTAL TO EACH WATER SERVICE CONNECTION.
 - CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES SERVICING ADJACENT PROPERTIES EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED BY THE LOCAL MUNICIPALITY.
 - CONTRACTOR SHALL NOT INTERRUPT MAIL SERVICE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO REINSTALL ALL MAILBOXES ONCE THE PIPE HAS BEEN LAID AND BACKFILLED TO MAINTAIN UNINTERRUPTED MAIL DELIVERY.



- LEGEND**
- EXISTING MONUMENT
 - SANITARY MANHOLE
 - GAS VALVE
 - GAS MARKER
 - GUY ANCHORS
 - LIGHT POLE
 - POWER POLE
 - YARD LIGHT
 - TELEPHONE VAULT
 - TELEPHONE PEDESTAL
 - TELEPHONE HANDHOLE
 - TELEPHONE MARKER
 - FIBER OPTIC MARKER
 - FIRE HYDRANT
 - WATER VALVE
 - POST
 - MAILBOX
 - ROCKS/BOULDERS
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 - STOP SIGN
 - SHRUB
 - STUMP
 - ORNAMENTAL TREE
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 - FORCE MAIN
 - GAS LINE
 - OVERHEAD LINE
 - ELECTRIC LINE
 - FIBER OPTIC LINE
 - TELEPHONE LINE
 - WATER LINE
 - WOOD FENCE
 - CHAIN LINK TYPE FENCE
 - FENCE
 - SPLIT RAIL FENCE
 - FARM FIELD TYPE FENCE
 - TREELINE
 - BRUSHLINE



PROFILE - U.S. HIGHWAY 33 - STA. 12+00 TO STA. 17+00
SCALE 1" = 20' H, 5" V

6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ
5-3-17	REVISED PER INDOT REVIEW COMMENTS	REZ
3-14-17	REVISED PER REVIEW COMMENTS	REZ
12-16-16	REVIEW SUBMITTAL	REZ
11-23-16	REVISED PER PRELIMINARY REVIEW	REZ
	DESCRIPTION	BY
	DATE	DATE

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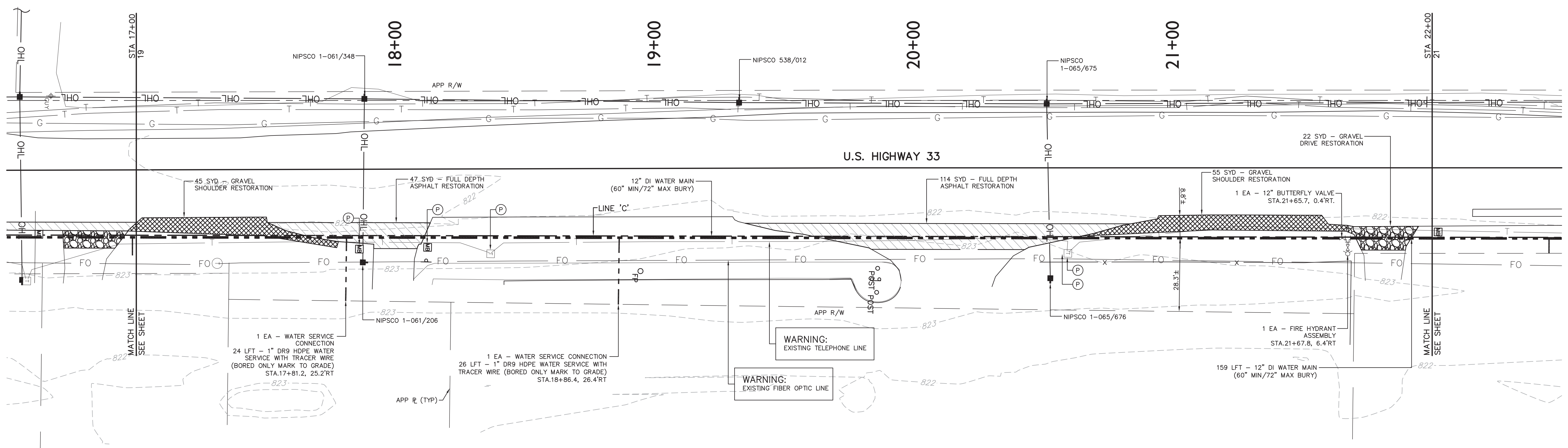
TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA
Phone: (317) 438-3448
Fax: (317) 438-3448
Email: terr@te-ind.com

JPR JONES PETRIE RAFINSKI
your one single source
Chirag Patel, Indiana
No. 111200182
Professional Engineer
South Bend, Indiana
P: 574.232.1888
Elkhart, Indiana
P: 574.293.7762

CHIRAG PATEL
REGISTERED
NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN
GOSHEN, IN

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1" = 20' H, 5" V

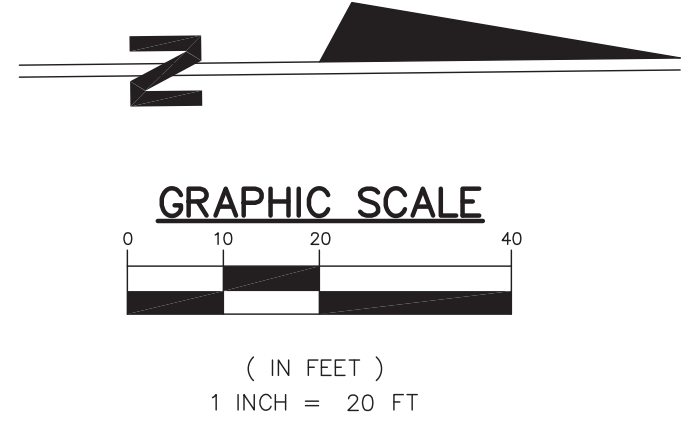


PLAN - U.S. HIGHWAY 33 - STA. 17+00 TO STA. 22+00
SCALE 1" = 20' H

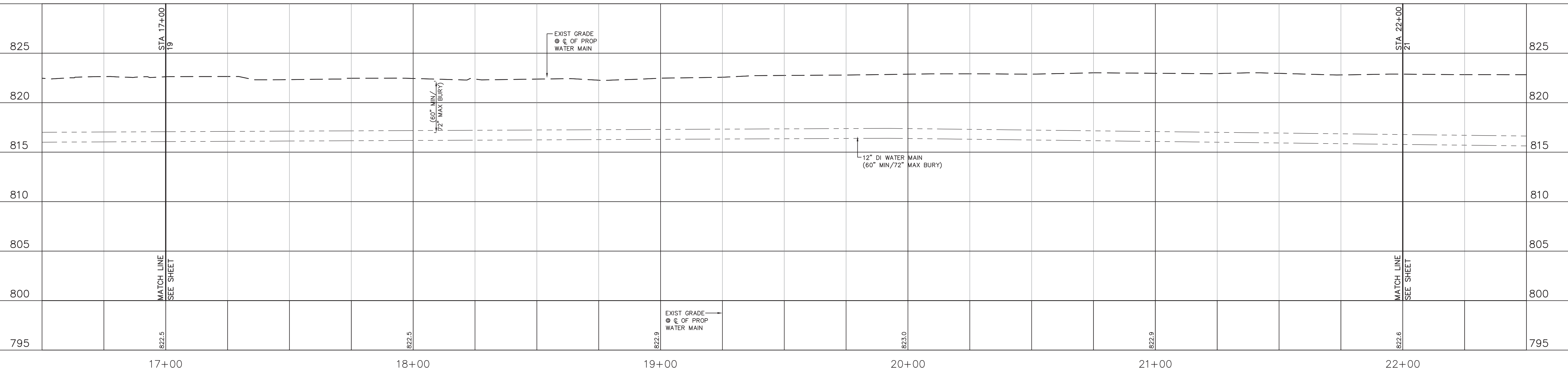
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 - FULL DEPTH INDOT CONCRETE PAVEMENT REPLACEMENT DEPTH OF CONCRETE PAVEMENT SHALL BE THE SAME AS THE REMOVED PAVEMENT EXCEPT IT SHALL BE A MINIMUM OF 9 INCHES.
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 - GRAVEL DRIVE RESTORATION
 - HMA DRIVE RESTORATION
 - CONCRETE DRIVE RESTORATION

- PROPOSED WATER MAIN
- PROTECT
- REMOVE
- RESTORE
- RELOCATE

- NOTES:**
1. CONTRACTOR SHALL ACCURATELY RESTORE SIDE SWALES ALONG COUNTY ROAD 40 AND U.S. HIGHWAY 33 WITHIN THE EXISTING RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION.
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 3. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE APPROVED EROSION CONTROL PLAN. SEE SHEET 26 THRU 29 FOR MINIMUM PLAN AND DETAILS.
 4. COORDINATE TEMPORARY RESTRAINT OF EXIST UTILITY POLES AND/OR LINES AS NECESSARY.
 5. CONTRACTOR TO MAINTAIN UNINTERRUPTED MAIL SERVICE TO ALL RESIDENTS FOR THE DURATION OF THE PROJECT.
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- LEGEND**
- EXISTING MONUMENT
 - SANITARY MANHOLE
 - GAS VALVE
 - GAS MARKER
 - GUY ANCHORS
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 - YARD LIGHT
 - TELEPHONE VAULT
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 - FENCE
 - SPLIT RAIL FENCE
 - FARM FIELD TYPE FENCE
 - TRELINE
 - BRUSHLINE



PROFILE - U.S. HIGHWAY 33 - STA. 17+00 TO STA. 22+00
SCALE 1" = 20' H, 5' V

6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ
5-3-17	REVISED PER INDOT REVIEW COMMENTS	REZ
3-14-17	REVISED PER REVIEW COMMENTS	REZ
1-16-16	REVIEW SUBMITTAL	REZ
11-23-16	REVISED PER PRELIMINARY REVIEW	REZ
	DESCRIPTION	BY
	DATE	

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TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA
www.terrco.com
Phone: (317) 438-3448
Fax: (317) 438-3448
Email: terr@terrco.com

JPR JONES PETRIE RAFINSKI
your one single source
South Bend, Indiana
P: 574.232.1888
Elkhart, Indiana
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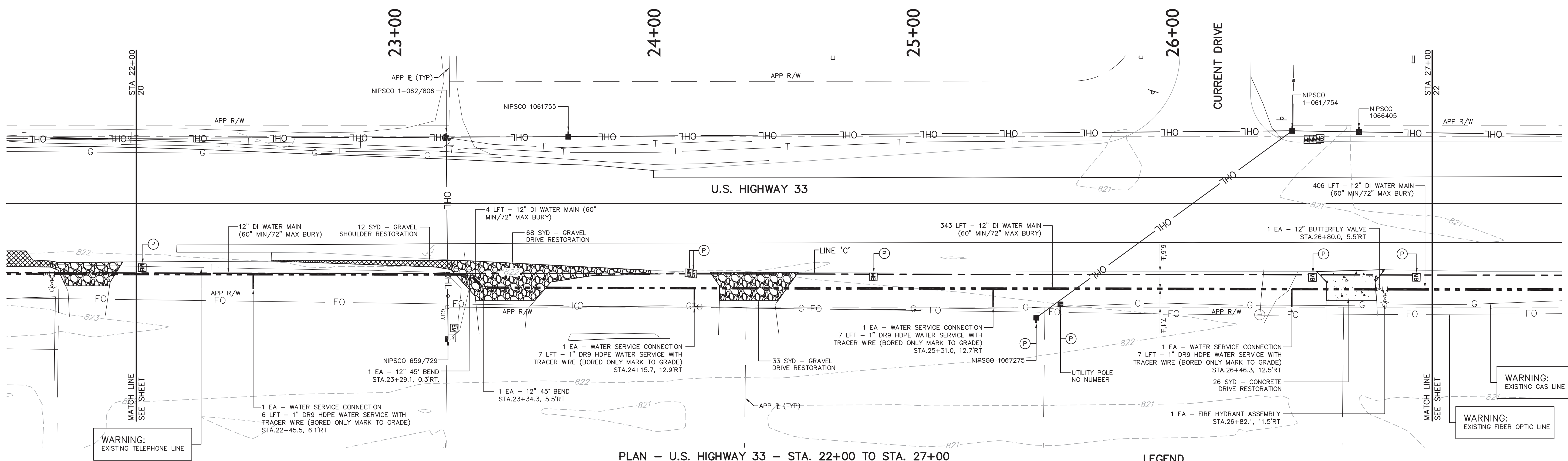
CHIRAG PATEL
REGISTERED
NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER

6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN
304 E. JEFFERSON
GOSHEN, IN

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1" = 20' H, 5' V

20



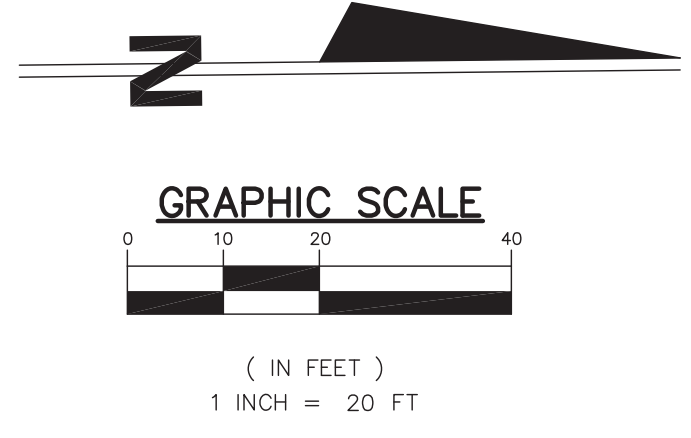
PLAN - U.S. HIGHWAY 33 - STA. 22+00 TO STA. 27+00
SCALE 1" = 20' H

LEGEND (INDOT U.S. HIGHWAY 33)

- FULL DEPTH INDOT BITUMINOUS PAVEMENT REPLACEMENT 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER 12" (1320#/SYD) HMA BASE NO. 5, OVER 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
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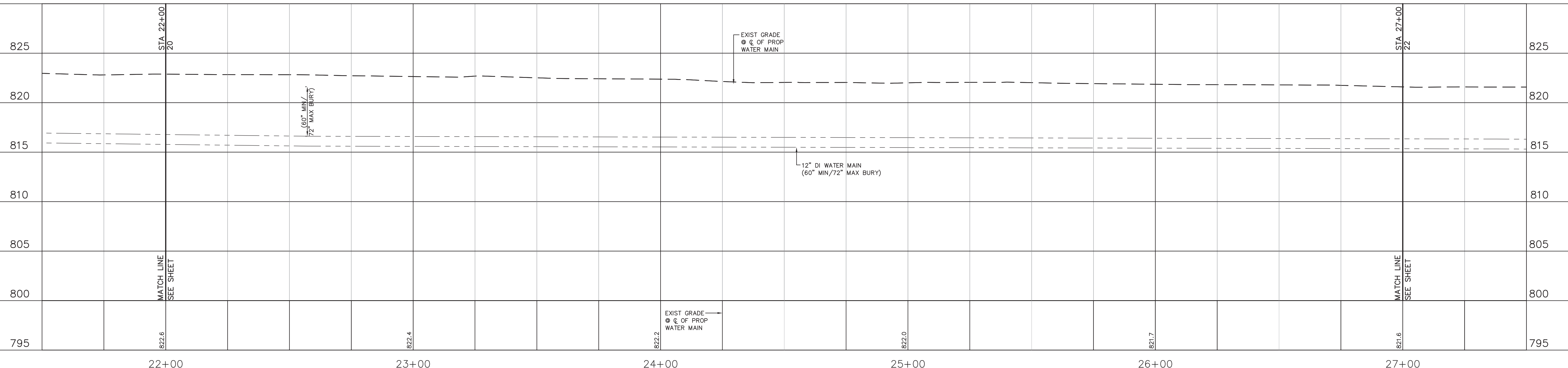
NOTES:

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LEGEND

- EXISTING MONUMENT
- SANITARY MANHOLE
- GAS VALVE
- GAS MARKER
- GUY ANCHORS
- LIGHT POLE
- POWER POLE
- YARD LIGHT
- TELEPHONE VAULT
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- TREELINE
- BRUSHLINE



PROFILE - U.S. HIGHWAY 33 - STA. 22+00 TO STA. 27+00
SCALE 1" = 20' H, 5" V

	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17	REZ
	REVISED PER INDOT REVIEW COMMENTS	5-3-17	REZ
	REVISED PER REVIEW COMMENTS	3-14-17	REZ
	REVIEW SUBMITTAL	12-16-16	REZ
	REVISED PER PRELIMINARY REVIEW	11-23-16	REZ
	DESCRIPTION		BY
			DATE

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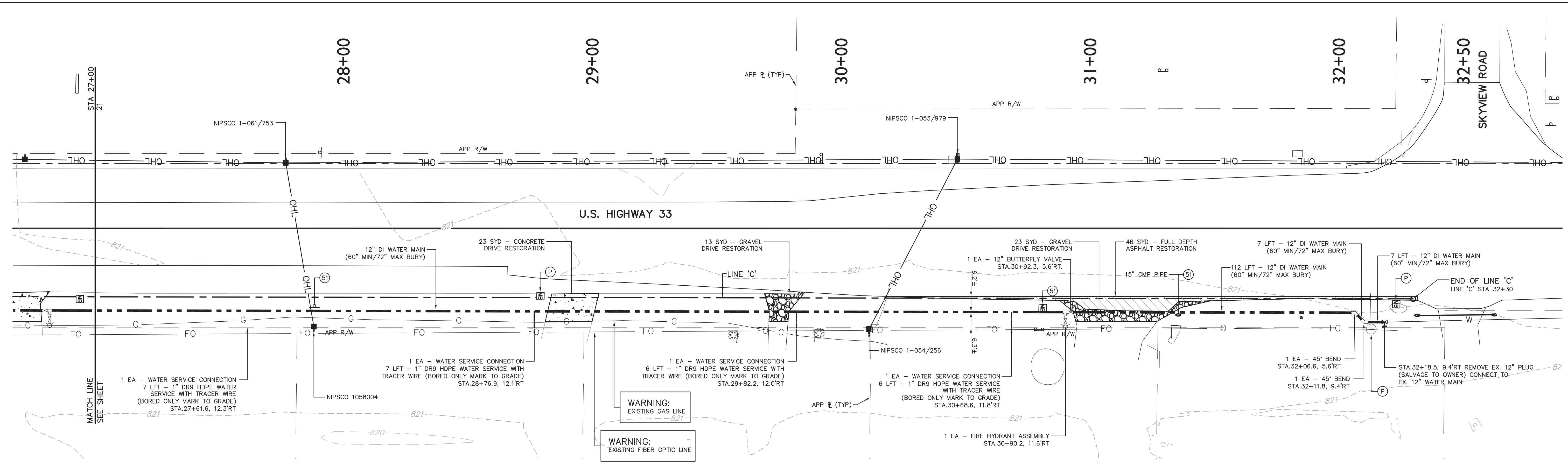
TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA
Phone: (317) 438-3448
Fax: (317) 438-3448
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PROFESSIONAL ENGINEER
6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN
GOSHEN, IN

DESIGNED BY: CHIRAG PATEL
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DATE: DECEMBER 2016
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SCALE: 1" = 20' H, 5" V



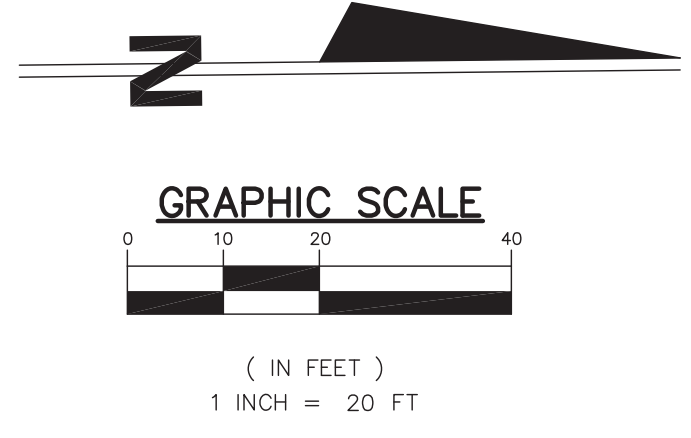
PLAN - U.S. HIGHWAY 33 - STA. 27+00 TO STA. 32+30
SCALE 1" = 20' H

LEGEND (INDOT U.S. HIGHWAY 33)

- FULL DEPTH INDOT BITUMINOUS PAVEMENT REPLACEMENT 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER 12" (1320#/SYD) HMA BASE NO. 5, OVER 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
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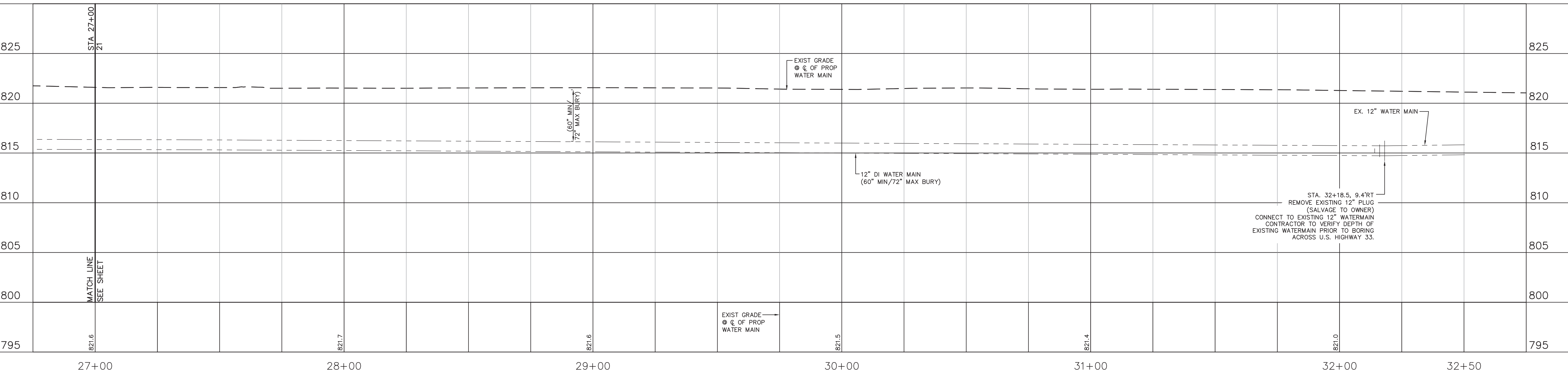
NOTES:

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2. CONTRACTOR SHALL RESEED THE DISTURBED AREAS WITH GRASS SEED CONFORMING TO THE SPECIFICATIONS. RESTORATION SHALL BE PERFORMED PROGRESSIVELY PER THE PROJECT SPECIFICATIONS.
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LEGEND

- EXISTING MONUMENT
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- GAS VALVE
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PROFILE - U.S. HIGHWAY 33 - STA. 27+00 TO STA. 32+30
SCALE 1" = 20' H, 5' V

6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ	6-2-17
4	REVISED PER INDOT REVIEW COMMENTS	REZ	5-3-17
3	REVISED PER REVIEW COMMENTS	REZ	3-14-17
2	REVIEW SUBMITTAL	REZ	12-16-16
1	REVISED PER PRELIMINARY REVIEW	REZ	11-23-16
REV.	DESCRIPTION	BY	DATE

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JPR TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA
www.terrco.com

South Bend, Indiana
P: 574.332.1888
E: info@terrco.com

Elkhart, Indiana
P: 574.293.7762
E: info@terrco.com

Fosh Vignettes, Indiana
P: 260.422.2522
E: info@terrco.com

CHIRAG PATEL
REGISTERED
NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER

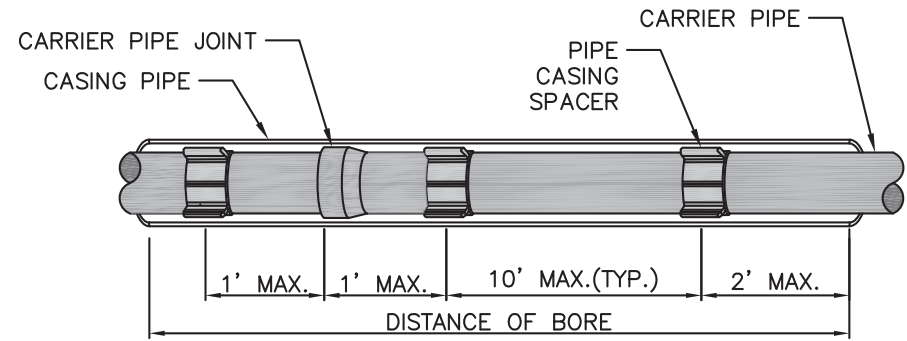
6/2/2017

**COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN**

204 E. JEFFERSON
GOSHEN, IN

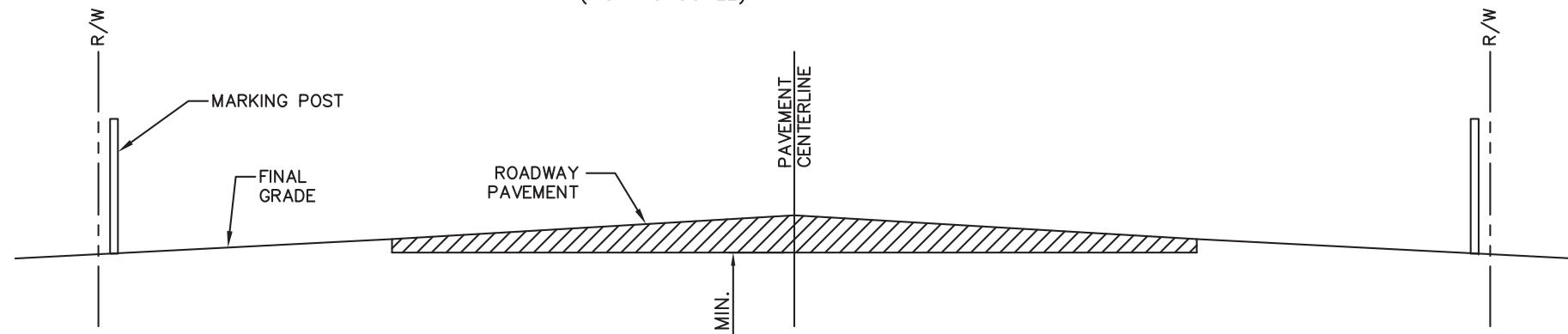
DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1" = 20' H, 5' V

22



NOTE:
 1- CASING SPACERS SHALL BE CCS SERIES BY CASCADE WATERWORKS MFG. ALTERNATIVE CASING SPACERS MAY BE USED WITH PRIOR APPROVAL FROM ENGINEER.
 2- APPROVED CASING SPACERS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

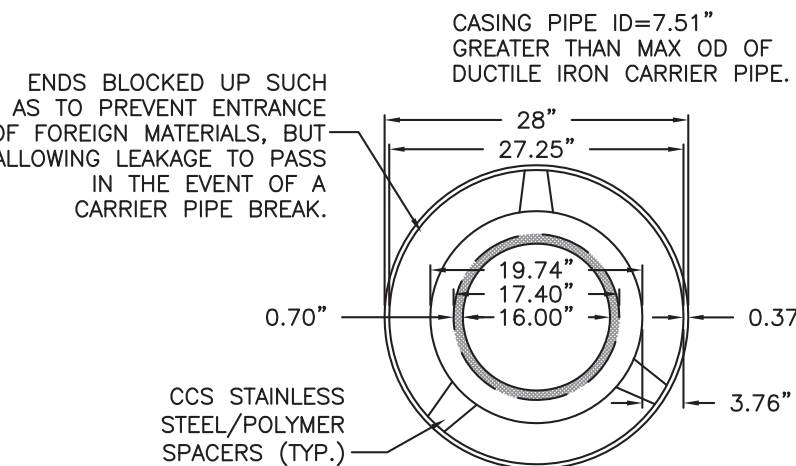
CASING SPACER DETAIL
(NOT TO SCALE)



WELDING:
 1. STEEL CASING SECTIONS SHALL BE CONNECTED BY WELDING. WELD SHALL CONFORM TO AWWA C206.

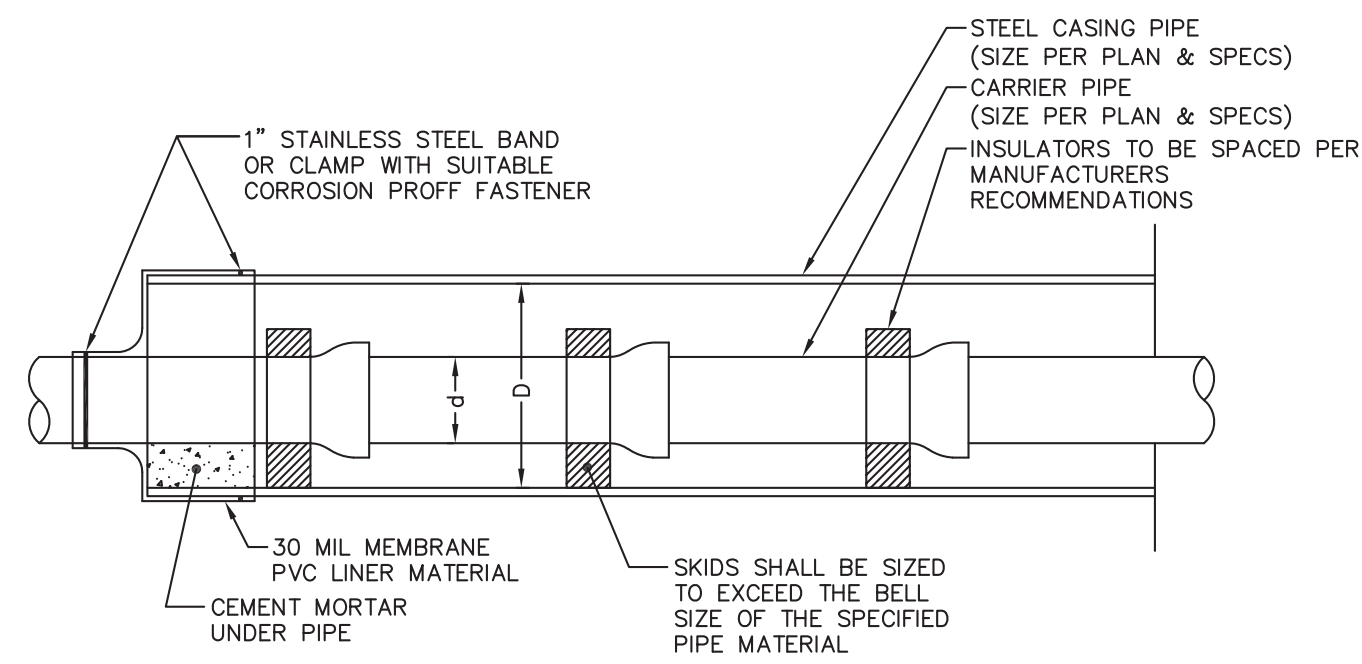
NOTE:
 1. ALL PIPE JOINTS WITHIN THE CASING ARE TO BE RESTAINED.
 2. TRACING WIRE TO BE INSTALLED THROUGH ALL CASED BORINGS AND CONNECTED TO MARKING POST.
 3. STEEL PIPE CASING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A283, GRADE B, C, OR D. ALL JOINTS SHALL BE WELDED. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C206. COATING FOR STEEL CASING IS NOT REQUIRED.
 4. STEEL PIPE CASING SHALL BE INSTALLED SYMMETRICAL ABOUT WATER MAIN CENTERLINE (TYP.). PIPE CASING SHALL BE LAID TRUE TO LINE AND GRADE WITH NO BENDS OR CHANGES IN GRADE FOR THE FULL LENGTH OF THE CASING.

JACK AND BORE CASING PIPE DETAIL
(NOT TO SCALE)



NOTE:
 1. CARRIER PIPE SHALL BE CENTERED WITHIN CASING BY USE OF MODEL CCS STAINLESS STEEL/POLYMER SPACERS BY CASCADE WATERWORKS MFG. CO., OR EQUIVALENT. NO WOOD SKIDS SHALL BE ALLOWED.
 2. ALL WORK PERFORMED SHALL CONFORM TO THE APPLICABLE INDOT STANDARDS.
 3. CASING PIPE SHALL ALWAYS BE AT LEAST 6" LONGER THAN AUGUR TO PREVENT AUGUR FROM EXTENDING BEYOND END.
 4. CONTACT PERSON: CHIRAG PATEL, PE
 JONES PETRIE RAFINSKI CORP.
 200 WISCO PARKWAY, SUITE 200
 ELKHART, IN, 46516
 PH.#574-293-7762
 5. CASING PIPE TO BE SEALED AT BOTH ENDS WITH BRICK AND MORTAR AS NEEDED. VENT WILL BE PROVIDED AT THE HIGH END WITH A MARKER PLACED AT THE LOW END.

CARRIER PIPE DETAIL
(NOT TO SCALE)



TYPICAL CASING SECTION DETAIL
(NOT TO SCALE)

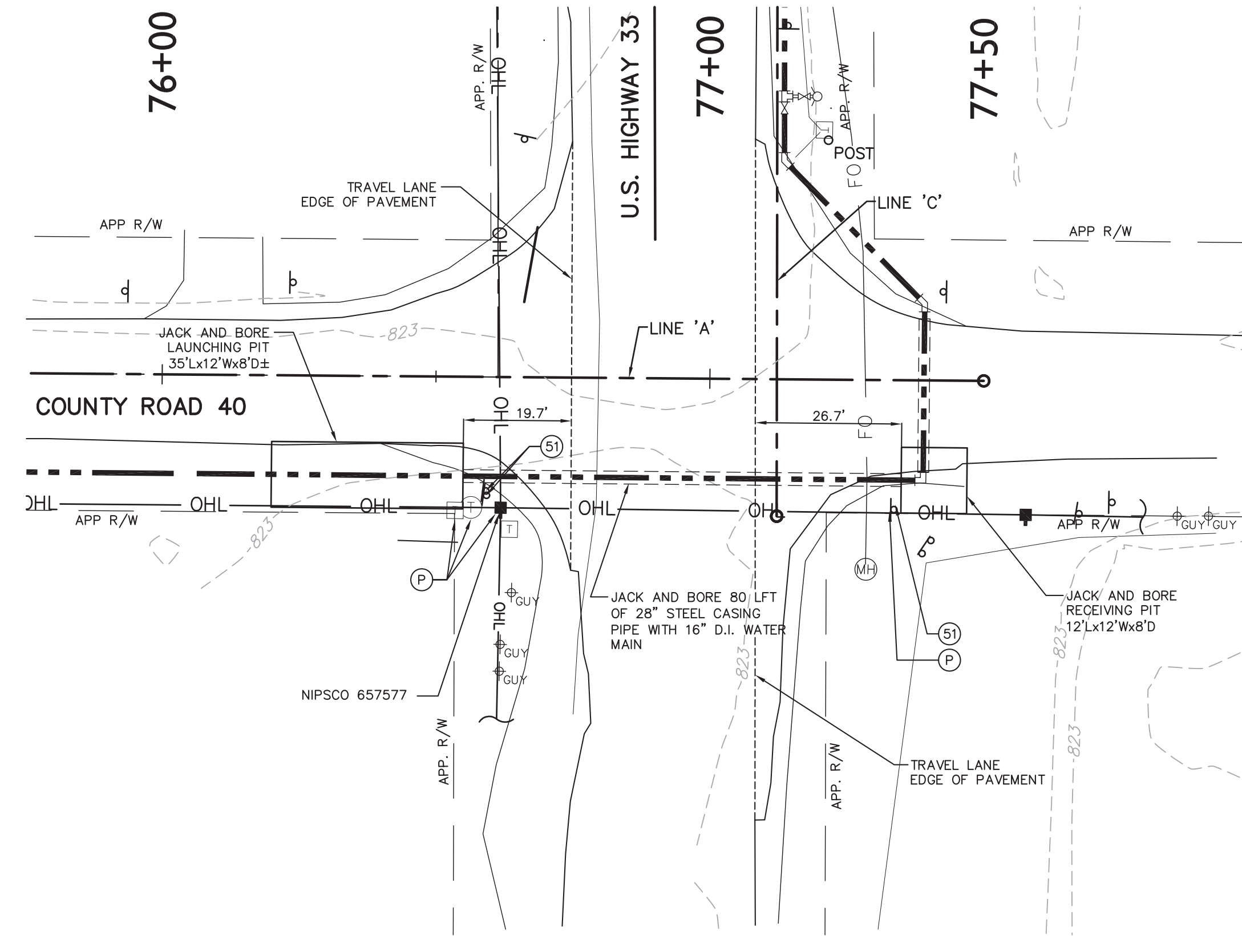
SEE SPECIFICATIONS FOR INDOT RIGHT-OF-WAY PERMIT SPECIAL PROVISIONS

LEGEND

- EXISTING MONUMENT
- SANITARY MANHOLE
- GAS VALVE
- GAS MARKER
- GUY ANCHORS
- LIGHT POLE
- POWER POLE
- YARD LIGHT
- TELEPHONE VAULT
- TELEPHONE PEDESTAL
- TELEPHONE HANDHOLE
- TELEPHONE MARKER
- FIBER OPTIC MARKER
- FIRE HYDRANT
- WATER VALVE
- POST
- MAILBOX
- ROCKS/BOULDERS
- SIGN
- STOP SIGN
- SHRUB
- STUMP
- ORNAMENTAL TREE
- DECIDUOUS TREE
- CONFEROUS TREE
- ST - STORM LINE
- FM - FORCE MAIN
- G - GAS LINE
- OL - OVERHEAD LINE
- E - ELECTRIC LINE
- F - FIBER OPTIC LINE
- T - TELEPHONE LINE
- W - WATER LINE
- X - WOOD FENCE
- X - CHAIN LINK TYPE FENCE
- X - FENCE
- X - SPLIT RAIL FENCE
- X - FARM FIELD TYPE FENCE
- - TREELINE
- - BRUSHLINE

General Notes:

- 1.) Contractor to coordinate temporary restraint of existing utility poles and/or lines as necessary.
- 2.) Overhead lines consist of electric, telephone, and cable.
- 3.) The contractor is responsible for the means and methods of construction and for conditions at the site. These plans, prepared by Jones Petrie and Rafinski, Corp. and Territorial Engineering LLC, do not extend to or include systems pertaining to the safety of the construction contractor or their employees, agents or representatives in the performance of the work. The seal of the engineer hereon does not extend to any such safety systems that may now or hereafter be incorporated into these plans. The construction contractor shall prepare or obtain the appropriate safety systems which may be required by the U.S. Occupational Safety and Health Administration (OSHA), INDOT, and/or local regulations. All costs associated with complying with OSHA, state, or local regulations are incidental to the work performed.
- 4.) Site work shall be constructed from a complete set of approved plans and specifications. Not all features are detailed on every plan. The engineer is to be notified of any conflicts within the plans and/or specifications.
- 5.) Prior to submitting a bid proposal it shall be the contractor's responsibility to either conduct any additional field exploration or acquire any additional geotechnical assistance required to estimate the amount of unsuitable material that will require removal and/or to estimate the amount of off-site borrow or topsoil that will be required.
- 6.) The contractor shall provide and maintain traffic devices for protection of vehicles and pedestrians consisting of drums, barriers, signs, lights, fences or other means as required. Maintain traffic protection is incidental to this work.
- 7.) Information on existing utilities has been compiled from available information including utility company and municipal record maps and/or field survey and is not guaranteed correct or complete. Utilities including storm drainage, water, phone, electric, gas and cable are shown to alert the contractor to their presence.
- 8.) The contractor shall visit the site and verify the elevation and location of all utilities by various means prior to beginning any excavation. The contractor shall notify the engineer in the event of any discovered or unforeseen conflicts between existing and proposed utilities so that an appropriate modification can be made.
- 9.) The contractor shall exercise caution when working near those existing utilities not noted for demolition or removal. No claims for damages or extra compensation shall accrue to the contractor from the presence of underground obstructions, or from any delay due to the removal or rearrangement of the same.
- 10.) Prior to demolition or construction the contractor shall contact 811 at least 48 hours before commencement of work. All non-member utilities shall be contacted directly by the contractor.
- 11.) Contractor shall not interrupt existing utilities servicing adjacent properties except when such interruptions have been authorized in writing by the local municipality or the affected utility.
- 12.) The contractor shall arrange for and coordinate work to be performed by utility companies including connections, disconnections, relocations, inspections, installations, street cuts and demolition. All excavated material for new utility installations or relocations that are located beneath new pavement locations shall be backfilled with grade "b" borrow and compacted per specifications.
- 13.) Excess excavated material not suited for backfill for trenches or pavement shall be transported to an area provided offsite by the contractor.
- 14.) Topsoil shall not be removed from site. excess topsoil not used for finish grading shall be stockpiled in areas shown.
- 15.) All existing pavement where utility piping or conduit is to be installed or will match existing pavements shall be saw cut.
- 16.) The contractor is responsible for the protection of survey control points, benchmarks, and property monuments. If a monument is disturbed, the contractor shall contract with the surveyor of record or an Indiana registered land surveyor for re-installation of the monument(s).
- 17.) Volumes of cut and fill materials do not take into consideration material densities before or after excavation or compaction. contractor to account for volumes when preparing bid proposals.
- 18.) The contractor is responsible for proper disposal of all construction debris in accordance to all governing bodies/agencies. the contractor shall clean up all debris and materials resulting from the operation and restore all surfaces, structures, and property not included with these improvements to its original condition to the satisfaction of owner and engineer.
- 19.) The contractor shall maintain safe, clearly marked, access to all adjacent properties throughout the entire project duration. this includes access for farm machinery. in doing so the contractor shall also maintain existing drainage ditches open without any obstructions.
- 20.) Limited construction operations to occur within travel ways of county road 40 at anytime during this project. prior approval by engineer is required.
- 21.) "or equal" or "or equivalent" clause
 Whenever a material, article, or piece of equipment is identified in the contract documents by reference to manufacturers' or vendors' names, trade names, catalogue numbers, etc., it is intended merely to establish a standard, any material, article, or equipment of other manufacturers and vendors that will perform adequately the duties imposed by the general design will be considered equally acceptable provided the material, article, or equipment so proposed is, in the opinion of the engineer, of equivalent substance and function. however, such substitution material, article, or equipment shall not be purchased or installed by the contractor without the engineer's written approval.



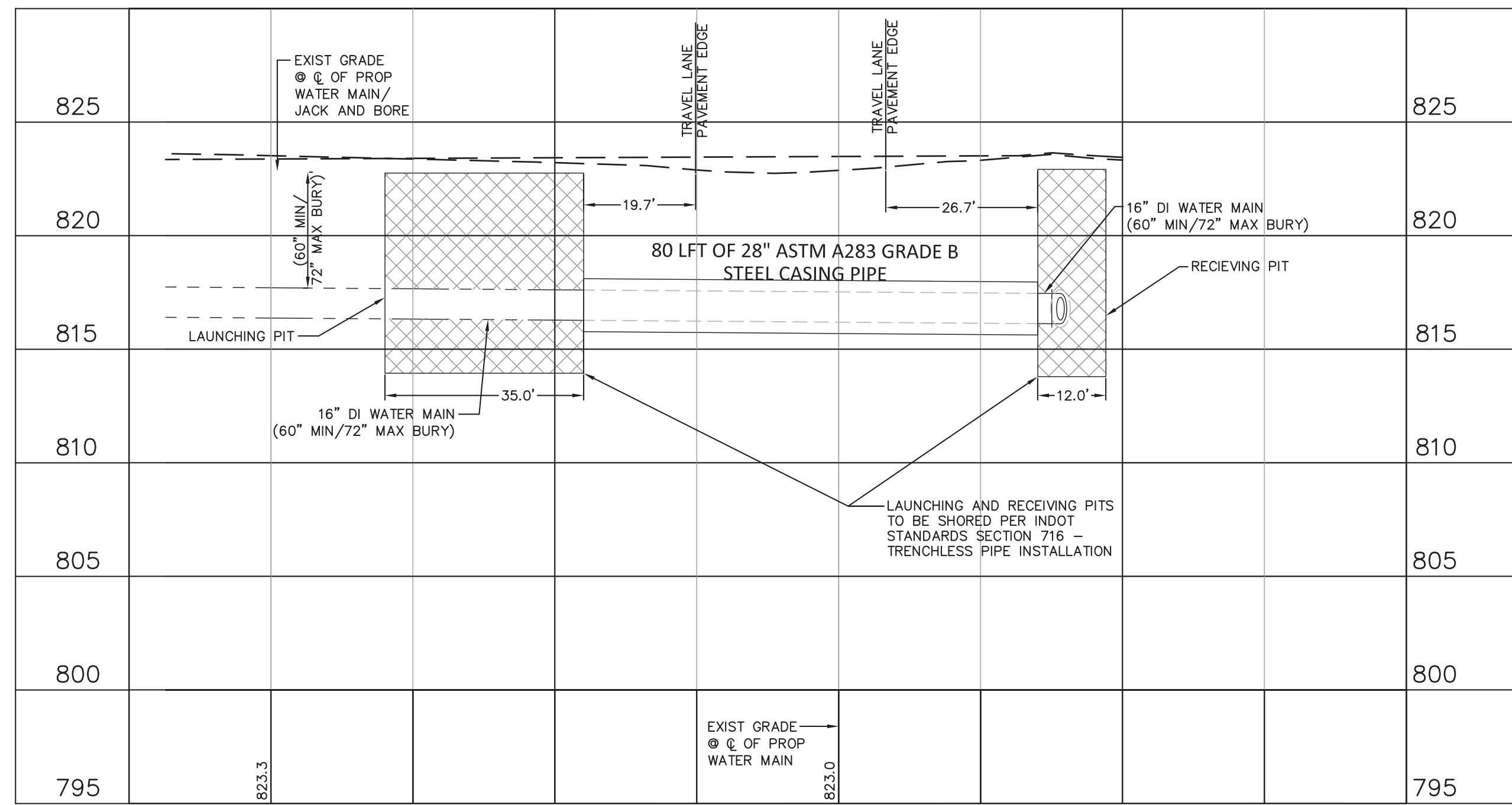
PLAN - JACK AND BORE U.S. HIGHWAY 33
SCALE 1" = 20' H

LEGEND (INDOT U.S. HIGHWAY 33)

- [Symbol] FULL DEPTH INDOT BITUMINOUS PAVEMENT REPLACEMENT 1.5" (165#/SYD) HMA SURFACE NO. 11, ON TACK COAT OVER 12" (1320#/SYD) HMA BASE NO. 5, OVER 8" COMPACTED AGGREGATE FOR SUBBASE, NO. 53, OVER COMPACTED SUBGRADE
- [Symbol] FULL DEPTH INDOT CONCRETE PAVEMENT REPLACEMENT DEPTH OF CONCRETE PAVEMENT SHALL BE THE SAME AS THE REMOVED PAVEMENT EXCEPT IT SHALL BE A MINIMUM OF 9 INCHES.
- NOTE: SEE SPECIFICATIONS FOR INDOT RIGHT-OF-WAY PERMIT SPECIAL PROVISIONS REGARDING PAVEMENT REPLACEMENT. SEE DETAIL SHEET 24.
- [Symbol] 2' WIDE 8" COMPACTED AGGREGATE NO. 53 SHOULDER OVER COMPACTED SUBGRADE (IF REQUIRED)
- [Symbol] GRAVEL DRIVE RESTORATION
- [Symbol] HMA DRIVE RESTORATION
- [Symbol] CONCRETE DRIVE RESTORATION
- [Symbol] PROPOSED WATER MAIN
- [Symbol] PROTECT
- [Symbol] REMOVE
- [Symbol] RESTORE
- [Symbol] RELOCATE

NOTES:

1. CONTRACTOR SHALL ACCURATELY RESTORE SIDE SWALES ALONG COUNTY ROAD 40 AND U.S. HIGHWAY 33 WITHIN THE EXISTING RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION.
2. CONTRACTOR SHALL RESEED THE DISTURBED AREAS WITH GRASS SEED CONFORMING TO THE SPECIFICATIONS. RESTORATION SHALL BE PERFORMED PROGRESSIVELY PER THE PROJECT SPECIFICATIONS.
3. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE APPROVED EROSION CONTROL PLAN. SEE SHEET 26 THRU 29 FOR MINIMUM PLAN AND DETAILS.
4. COORDINATE TEMPORARY RESTRAINT OF EXIST UTILITY POLES AND/OR LINES AS NECESSARY.
5. CONTRACTOR TO MAINTAIN UNINTERRUPTED MAIL SERVICE TO ALL RESIDENTS FOR THE DURATION OF THE PROJECT.
6. WATER SERVICE LEADS AS SHOWN ON PLANS ARE FOR GENERAL REFERENCE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATION IN THE FIELD WITH ADJACENT PROPERTY OWNERS AS TO FINAL LOCATION OF WATER SERVICE LEADS. FINAL COORDINATION LOCATION TO BE APPROVED BY ENGINEER. COORDINATION WORK IS INCIDENTAL TO EACH WATER SERVICE CONNECTION.
7. CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES SERVICING ADJACENT PROPERTIES EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED BY THE LOCAL MUNICIPALITY.
8. CONTRACTOR SHALL NOT INTERRUPT MAIL SERVICE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO REINSTALL ALL MAILBOXES ONCE THE PIPE HAS BEEN LAID AND BACKFILLED TO MAINTAIN UNINTERRUPTED MAIL DELIVERY.



PROFILE - JACK AND BORE U.S. HIGHWAY 33
SCALE 1" = 20' H, 5' V

6-2-17 REVISED PER CITY OF GOSHEN REVIEW COMMENTS REZ
 5-3-17 REVISED PER INDOT REVIEW COMMENTS REZ
 3-14-17 REVISED PER REVIEW COMMENTS REZ
 12-16-16 REVIEW SUBMITTAL REZ
 11-23-16 REVISED PER PRELIMINARY REVIEW REZ
 DATE BY

THE TERRITORIAL ENGINEERING, LLC
 WALKERTON - WWW.TELCOENR.COM - INDIANA

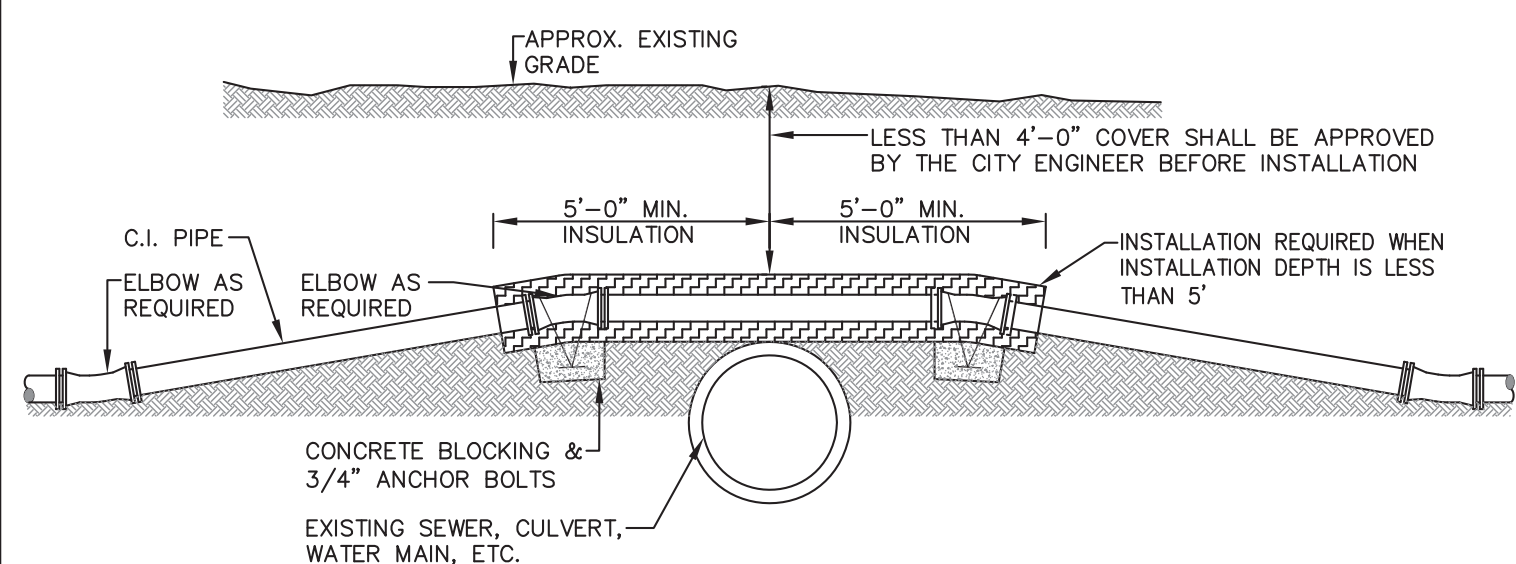
CHIRAG PATEL
 REGISTERED
 NO. 111200182
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

6/2/2017

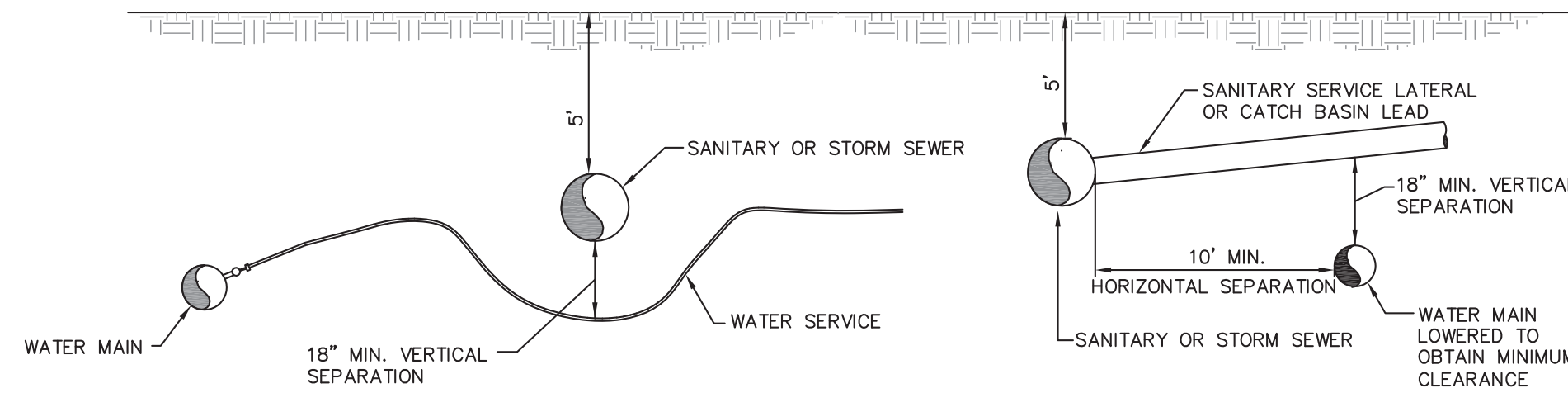
204-E. JEFFERSON
 GOSHEN, IN

DESIGNED BY: CHIRAG PATEL
 DRAWN BY: REZ
 DATE: DECEMBER 2016
 JOB NUMBER: 2017-0012
 SCALE: 1" = 20' H, 5' V

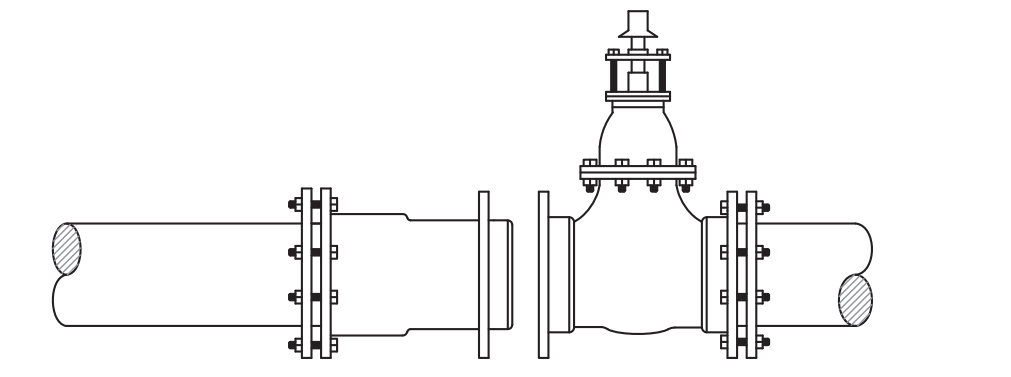
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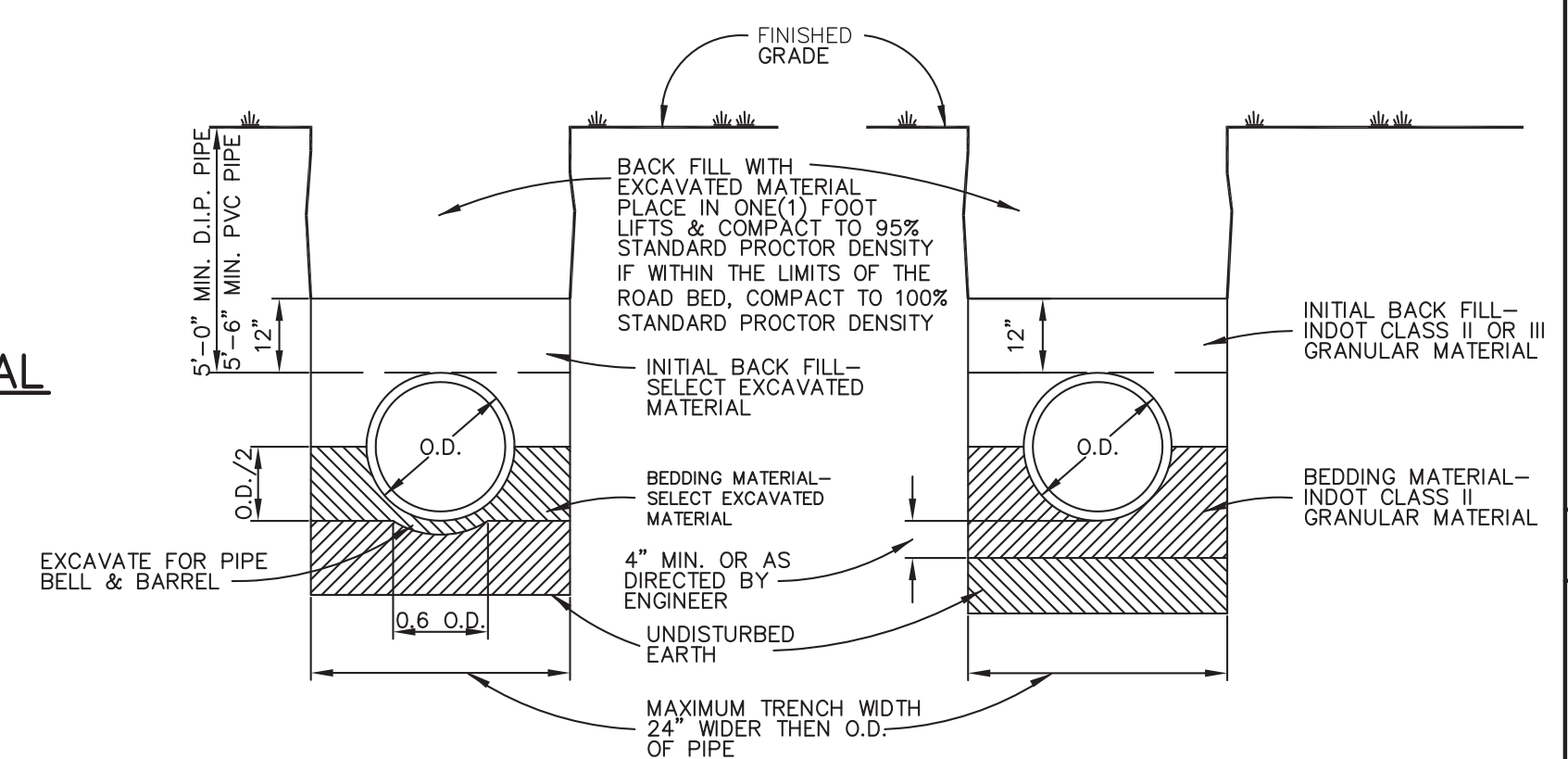
SHALLOW INSTALLATION OF MAINS OVER EXISTING STRUCTURES
NOT TO SCALE



UTILITY SEPARATION REQUIREMENT
NOT TO SCALE



CUTTING-IN VALVE WITH MECHANICAL JOINT CUTTING-IN-SLEEVE
NOT TO SCALE



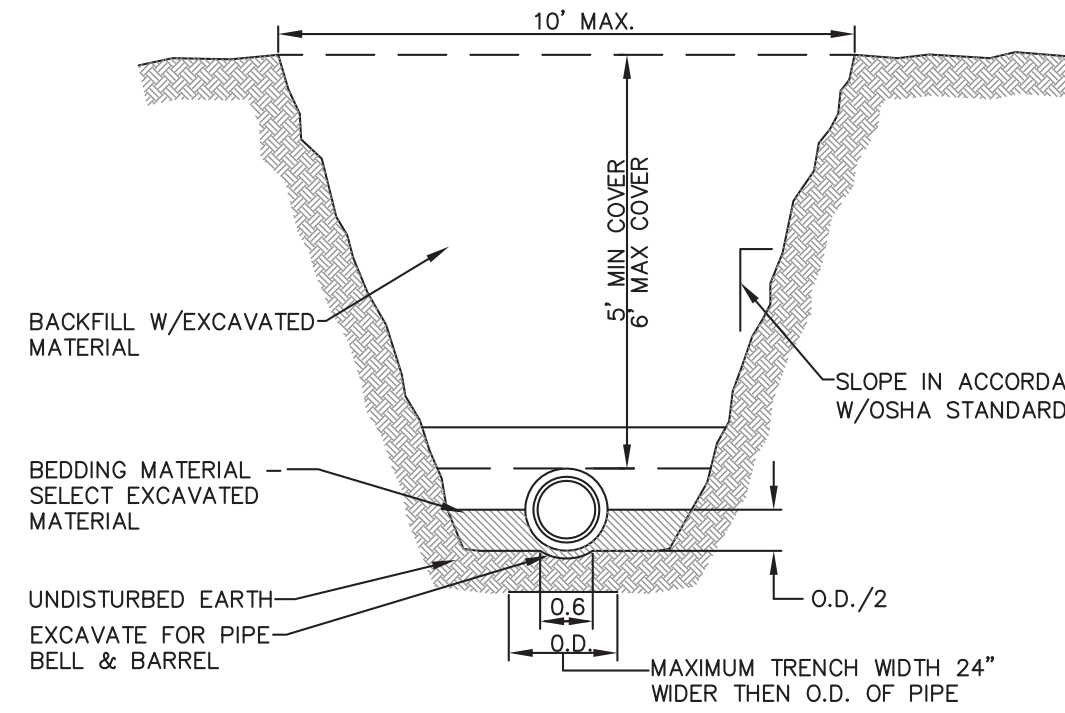
TRENCH DETAIL IN SUITABLE SOIL

TRENCH DETAIL IN UNSUITABLE SOIL

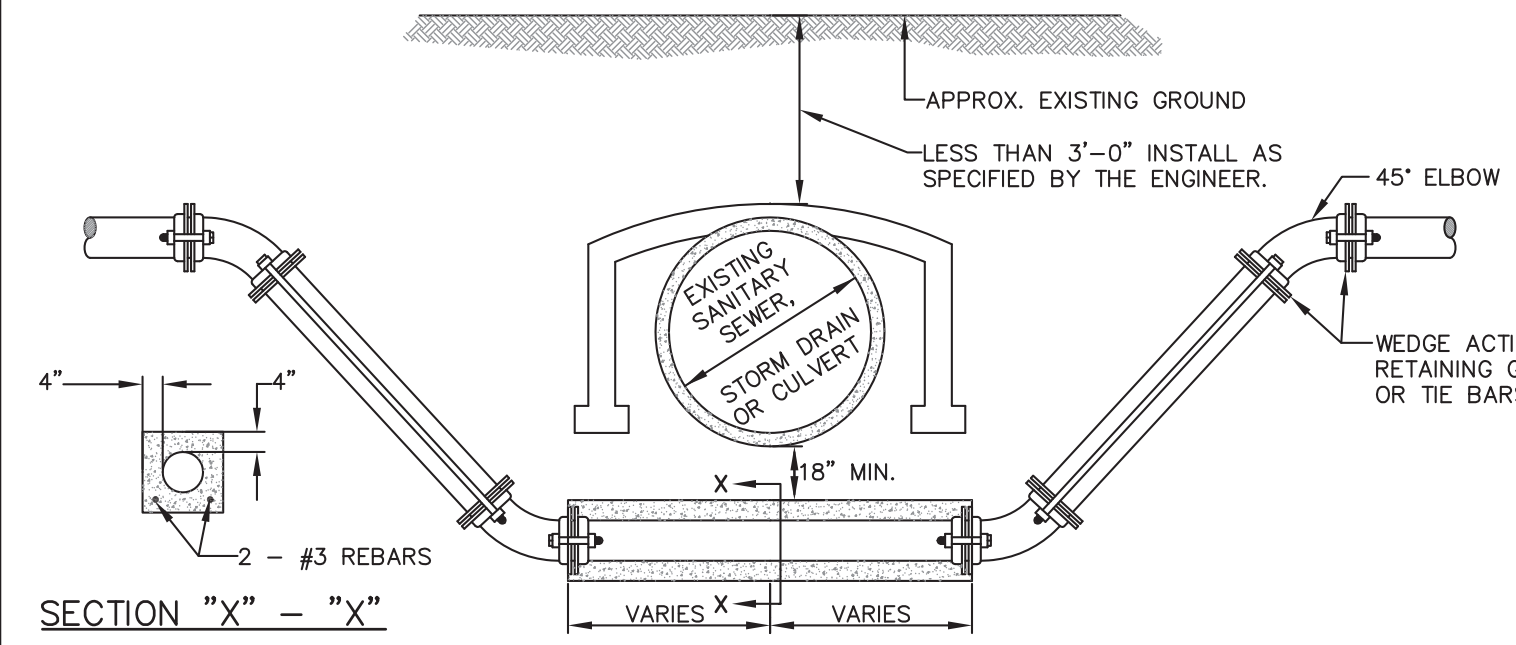
DIA. D"	WIDTH "W"
6"	18"
8"	24"
10"	24"
12"	30"
15"	36"
18"	39"
21"	42"
24"	45"
27"	48"
30"	53"
36"	66"
42"	75"
48"	82"

* USUALLY BASED ON SMALLEST BUCKET SIZE AVAILABLE

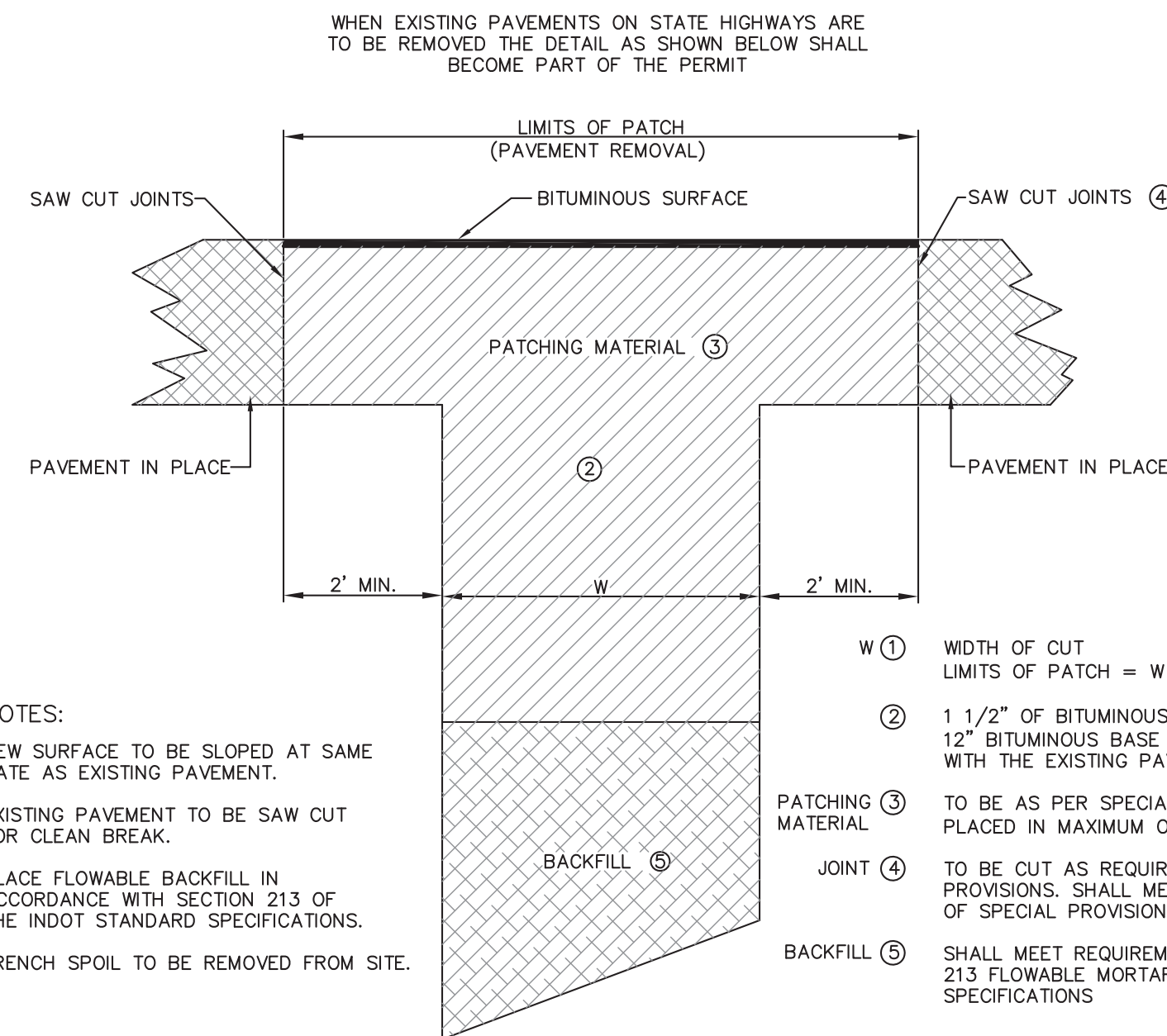
TYPICAL WATER MAIN BEDDING DETAIL
NOT TO SCALE



TYPICAL WATER MAIN TRENCH
NOT TO SCALE



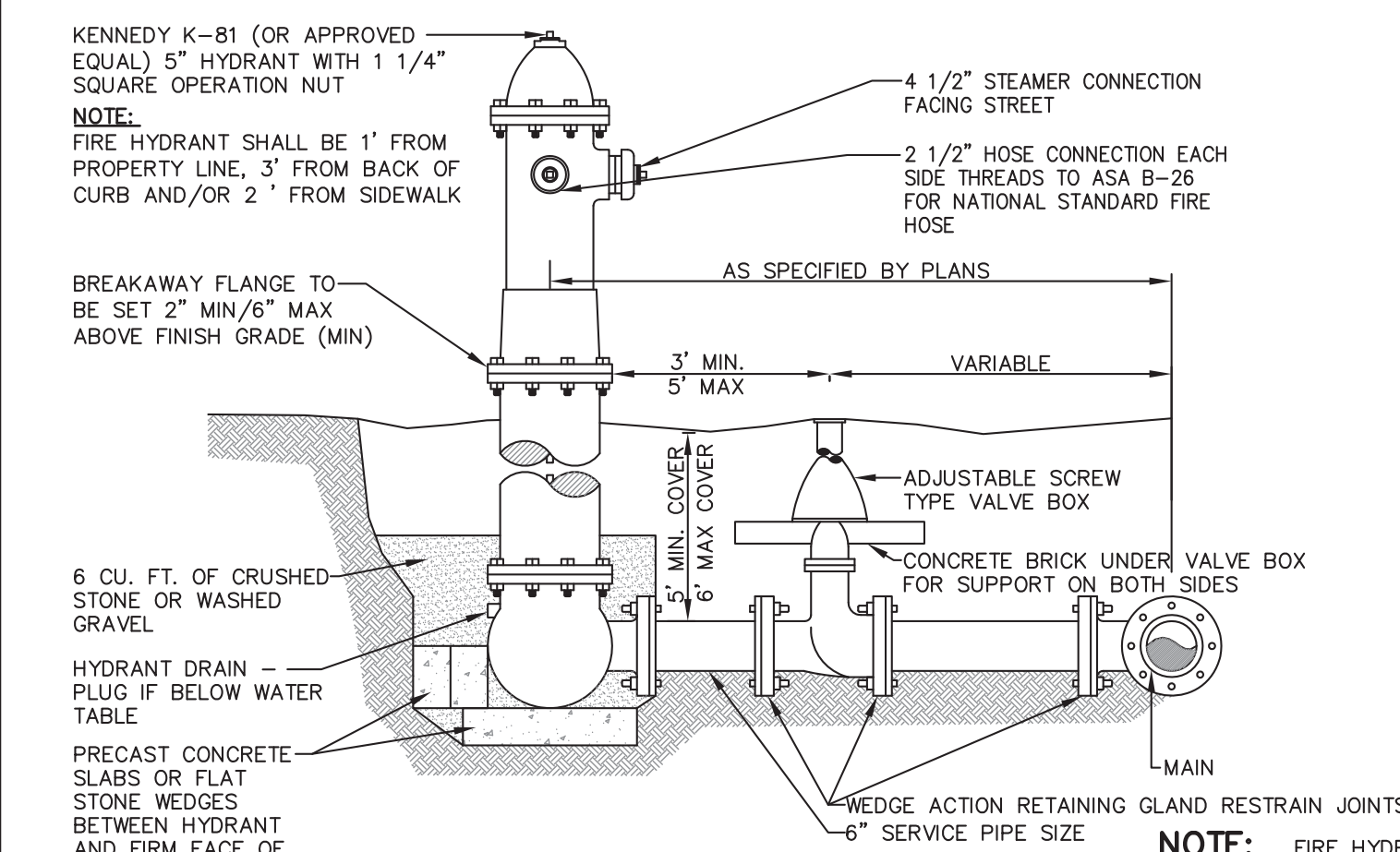
INSTALLING MAIN UNDER SEWERS OR CULVERTS
NOT TO SCALE



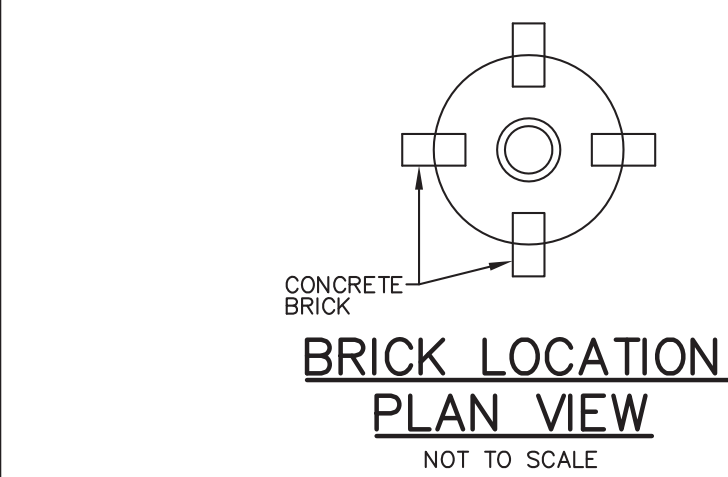
NOTES:

- 1 NEW SURFACE TO BE SLOPED AT SAME RATE AS EXISTING PAVEMENT.
- 2 EXISTING PAVEMENT TO BE SAW CUT FOR CLEAN BREAK.
- 3 PLACE FLOWABLE BACKFILL IN ACCORDANCE WITH SECTION 213 OF THE INDOT STANDARD SPECIFICATIONS.
- 4 TRENCH SPOIL TO BE REMOVED FROM SITE.
- 5 WIDTH OF CUT LIMITS OF PATCH = W + 4.0'
- 6 1 1/2" OF BITUMINOUS SURFACE ON 12" BITUMINOUS BASE FINISH FLUSH WITH THE EXISTING PAVEMENT
- 7 TO BE AS PER SPECIAL PROVISIONS PLACED IN MAXIMUM OF 330#/CYD LAYS
- 8 TO BE CUT AS REQUIRED BY SPECIAL PROVISIONS. SHALL MEET REQUIREMENTS OF SPECIAL PROVISIONS.
- 9 SHALL MEET REQUIREMENTS OF SECTION 213 FLOWABLE MORTAR INDOT STANDARD SPECIFICATIONS

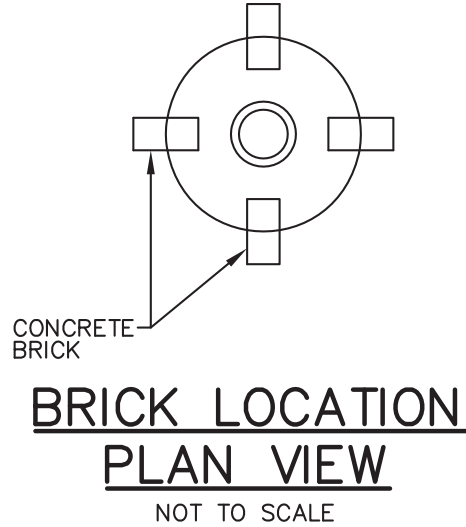
TYPICAL STATE HIGHWAY TRENCH (IF REQUIRED) BITUMINOUS PAVEMENTS
NOT TO SCALE



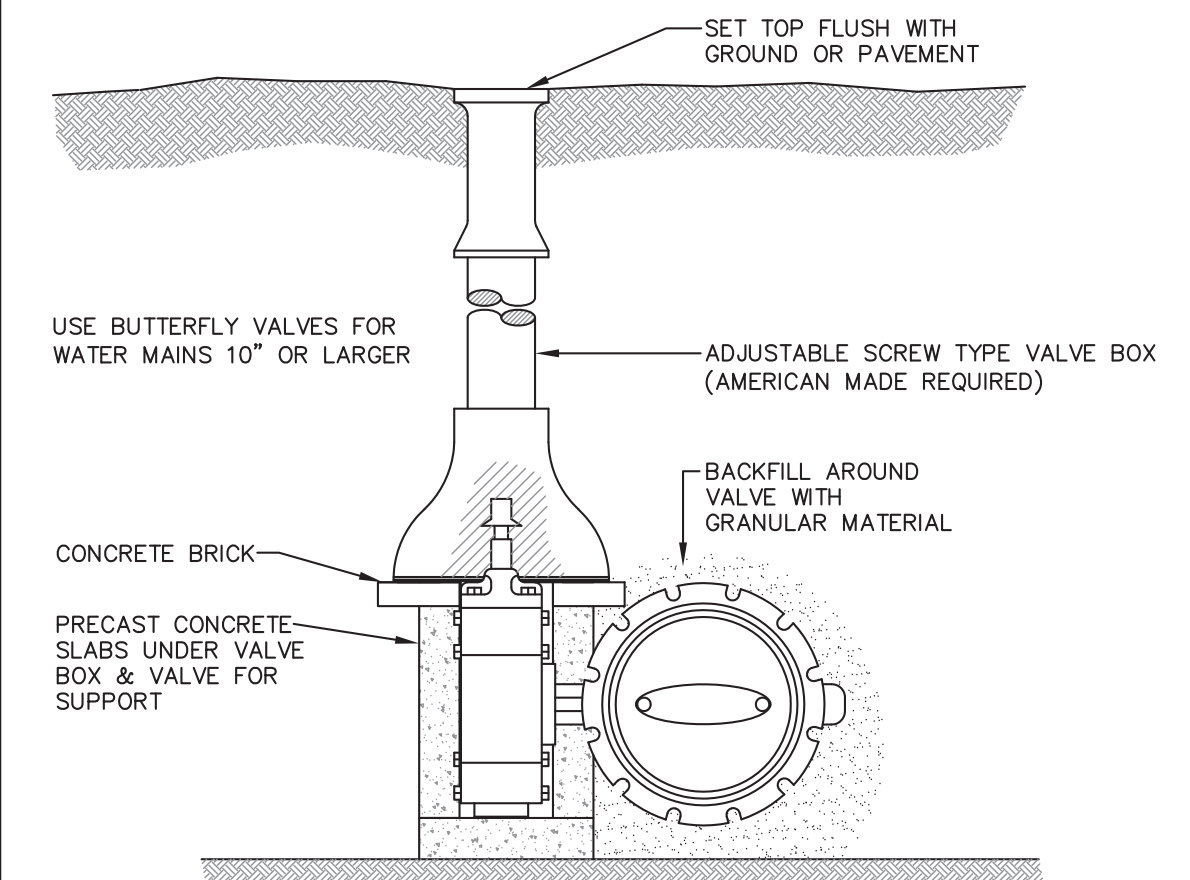
FIRE HYDRANT & VALVE
NOT TO SCALE



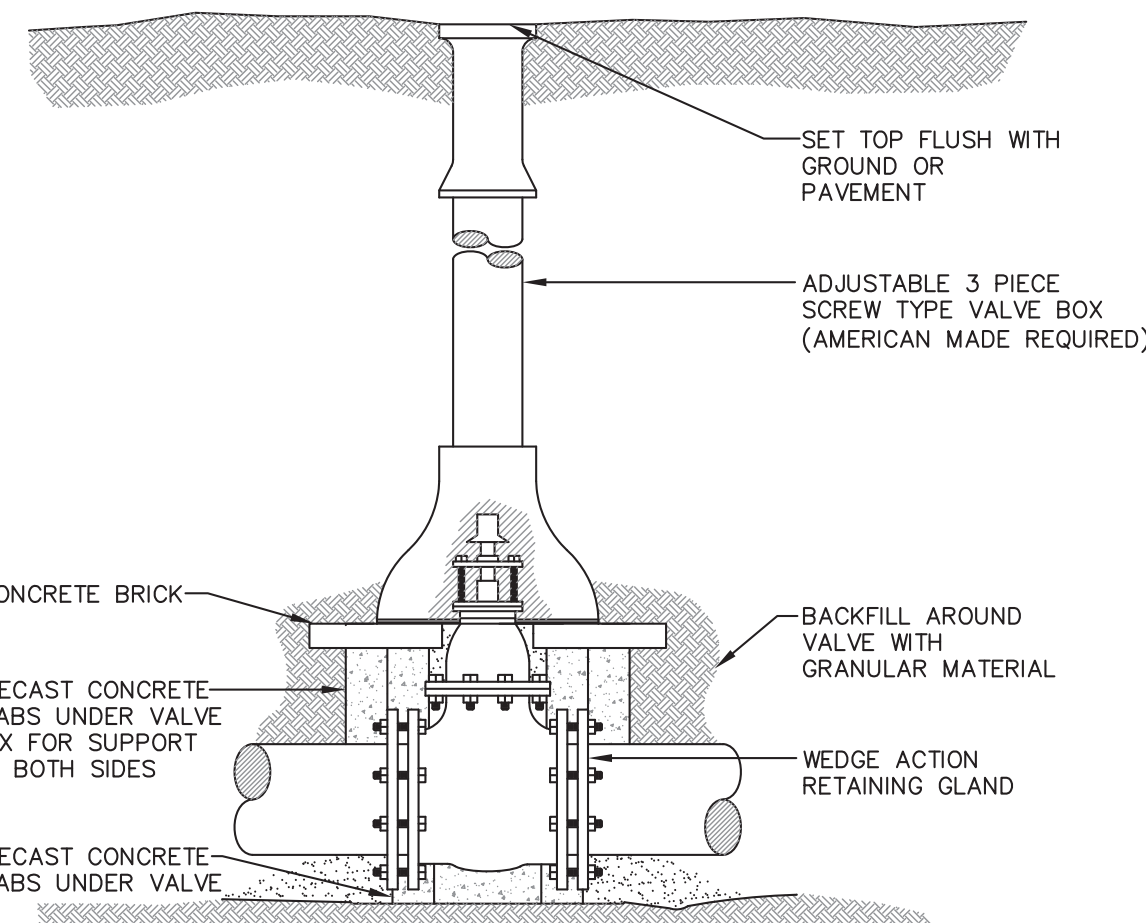
BRICK LOCATION PLAN VIEW
NOT TO SCALE



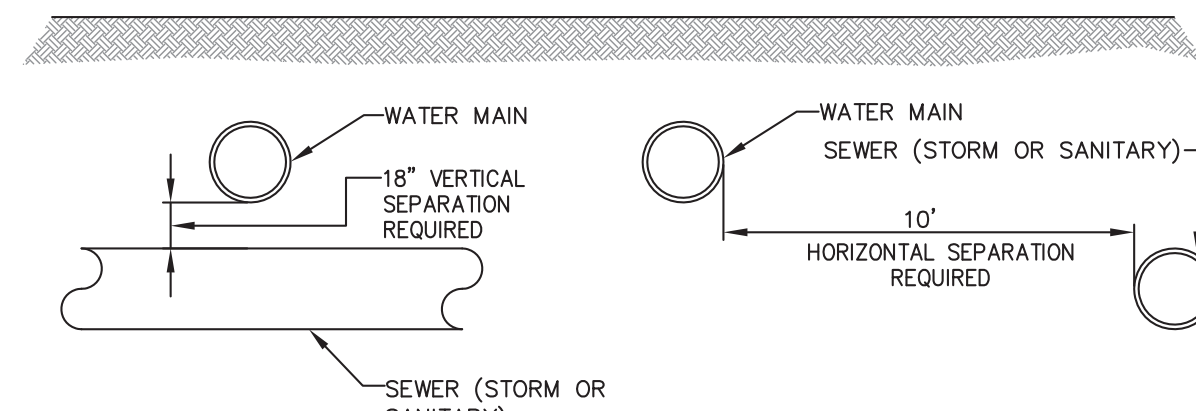
BRICK LOCATION PLAN VIEW
NOT TO SCALE



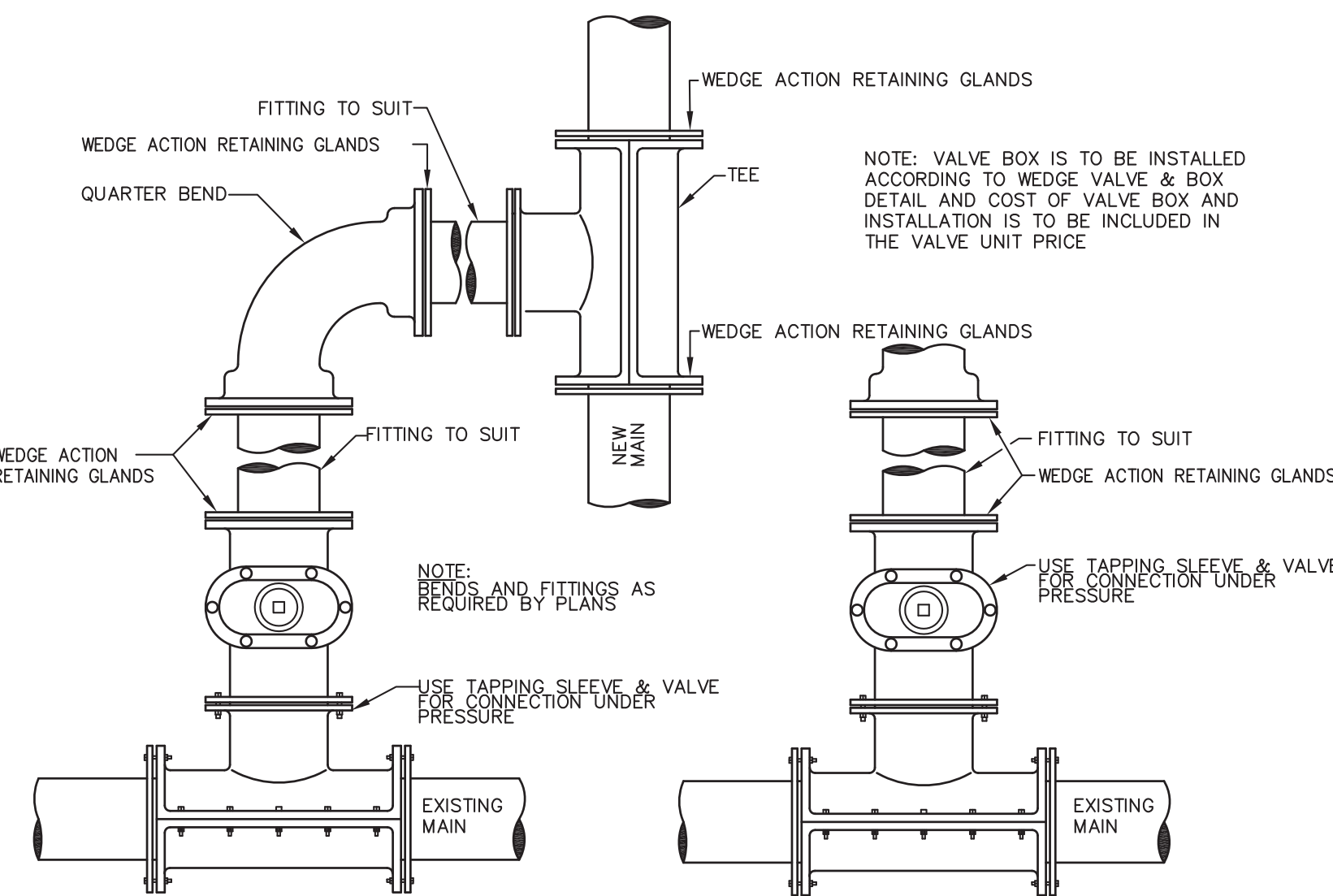
BUTTERFLY VALVE AND BOX
NOT TO SCALE
USE BUTTERFLY VALVES FOR MAINS 10" AND LARGER



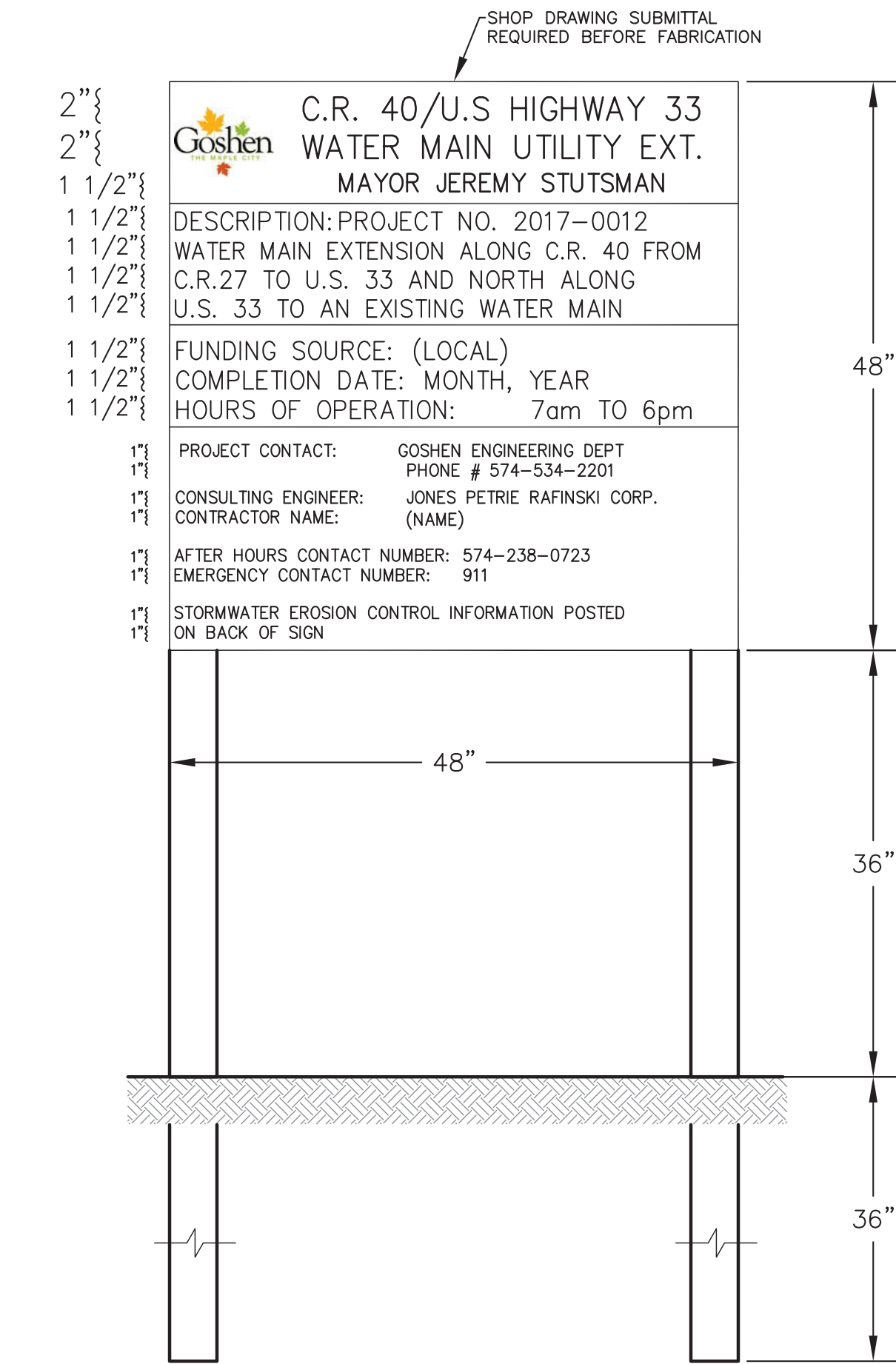
WEDGE VALVE AND BOX
NOT TO SCALE
USE WEDGE VALVES FOR MAINS 8" AND SMALLER



CROSS CONNECTION SEPARATION
NOT TO SCALE



TYPE 'A' TYPE 'B' TAPPING VALVE AND SLEEVE
NOT TO SCALE



PROJECT CONSTRUCTION SIGN
NOT TO SCALE

REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17
REVISED PER INDOT REVIEW COMMENTS	5-3-17
REVISED PER REVIEW COMMENTS	3-14-17
REVIEW SUBMITTAL	12-16-16
REVISED PER PRELIMINARY REVIEW	11-23-16
DATE	

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JPR Jones Petrie Rafinski
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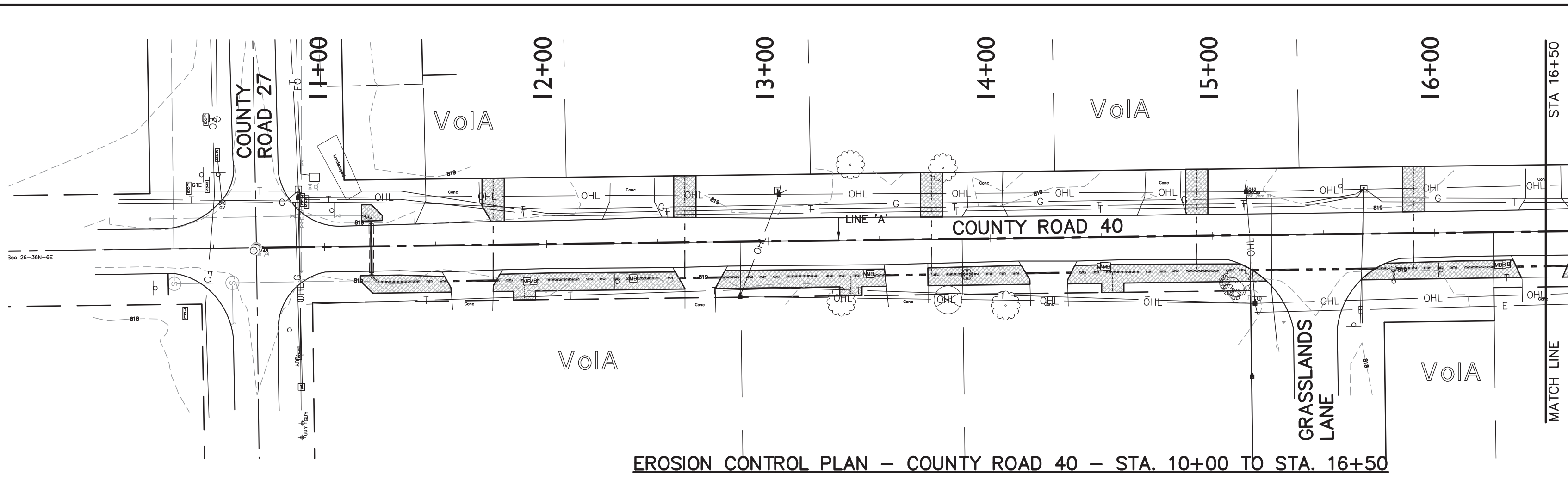
Chirag Patel
REGISTERED PROFESSIONAL ENGINEER
NO. 111200182
STATE OF INDIANA

6/2/2017

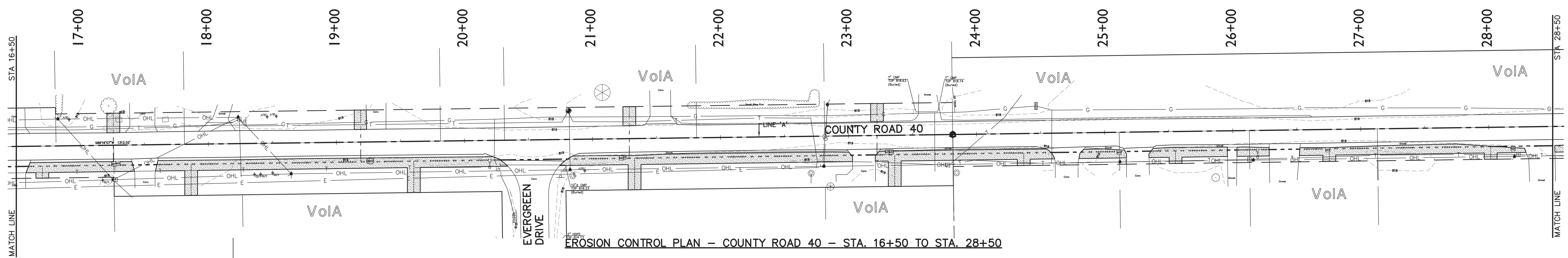
304 E. JEFFERSON GOSHEN IN
COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: NONE

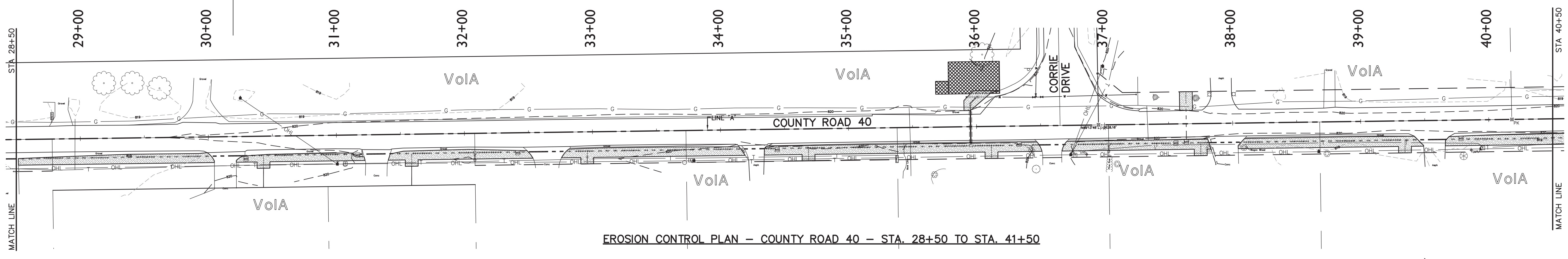
24



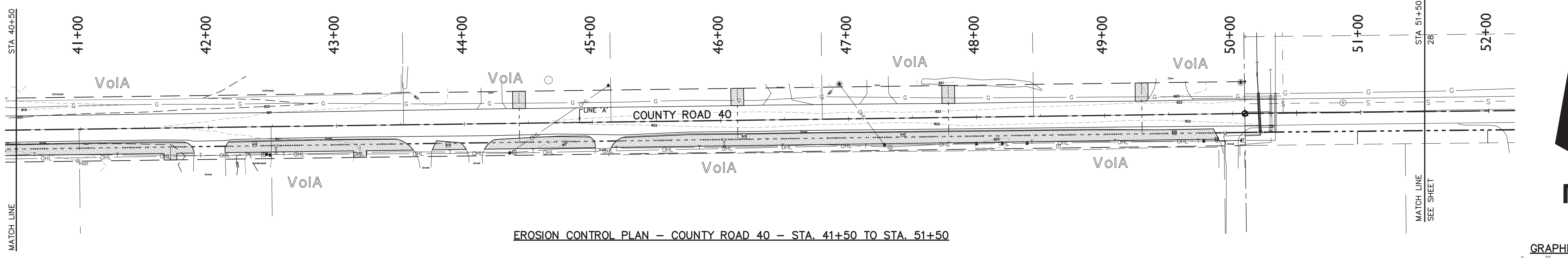
EROSION CONTROL PLAN - COUNTY ROAD 40 - STA. 10+00 TO STA. 16+50



EROSION CONTROL PLAN - COUNTY ROAD 40 - STA. 16+50 TO STA. 28+50



EROSION CONTROL PLAN - COUNTY ROAD 40 - STA. 28+50 TO STA. 41+50



EROSION CONTROL PLAN - COUNTY ROAD 40 - STA. 41+50 TO STA. 51+50

EROSION CONTROL LEGEND

- CP CONTRACTOR PARKING
- MS MATERIAL STORAGE
- TS TEMPORARY STOCKPILE
- CW CONCRETE WASHOUT
- SF SILT FENCE, PROPERLY ANCHORED
- TEMPORARY MULCH SEEDING (AS NEEDED)
- TEMPORARY CONSTRUCTION ENTRANCE

SOILS LEGEND

VoIA
 Volinia Loom, 0 TO 1% SLOPES
SETTING:
 LANDFORM: OUTWASH PLAINS
 POSITION ON THE LANDFORM: SWELLS
SOIL PROPERTIES AND QUALITIES:
 PARENT MATERIAL: OUTWASH
 DRAINAGE CLASS: WELL DRAINED
 AVAILABLE WATER CAPACITY: MODERATE (ABOUT 6.1 INCHES IN THE UPPER 60 INCHES)
COMPOSITION:
 VOLINIA SOIL AND SIMILAR INCLUSIONS: 98 PERCENT
 CONTRASTING INCLUSIONS: 2 PERCENT

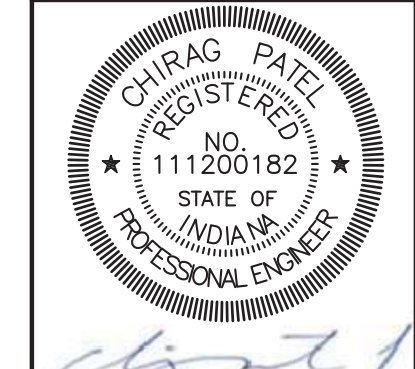
HAZ-MAT/CHEMICAL SPILL NOTIFICATION

State Fire Marshals Office: 1-800-669-7362
 IDEM Environmental Emergencies: 1-888-233-7745
 PETROLEUM PRODUCT SPILLS IN THE AMOUNT OF 55 GALLONS OR MORE MUST BE REPORTED TO IDEM REGARDLESS OF CLEANUP METHODS.
 City of Goshen Stormwater Pollution: 1-574-534-2201
 Elkhart County Emergency Spills: (911)

REV.	DESCRIPTION	DATE
1	REVISED PER PRELIMINARY REVIEW	11-23-16
2	REVIEW SUBMITTAL	12-16-16
3	REVISED PER REVIEW COMMENTS	3-14-17
4	REVISED PER INDOT REVIEW COMMENTS	5-3-17
5	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17

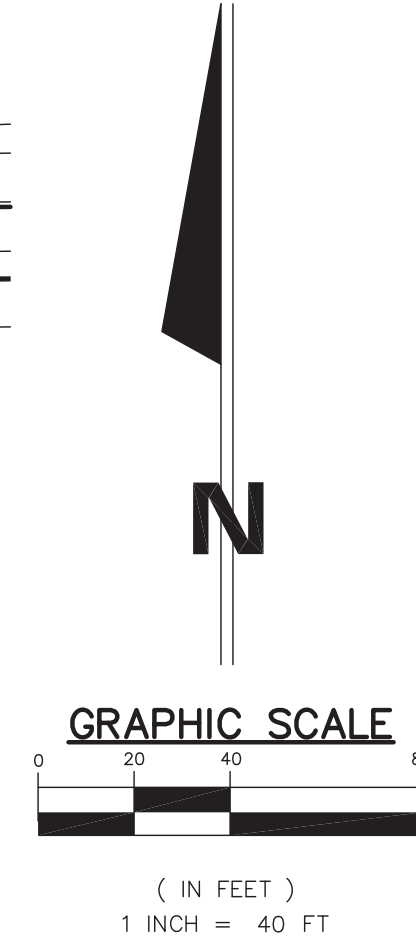
TERRITORIAL ENGINEERING, LLC
 WALKERTON - WWW.TELCOENR.COM - INDIANA
 Phone: (317) 438-9448
 Email: teem@telcoenr.com

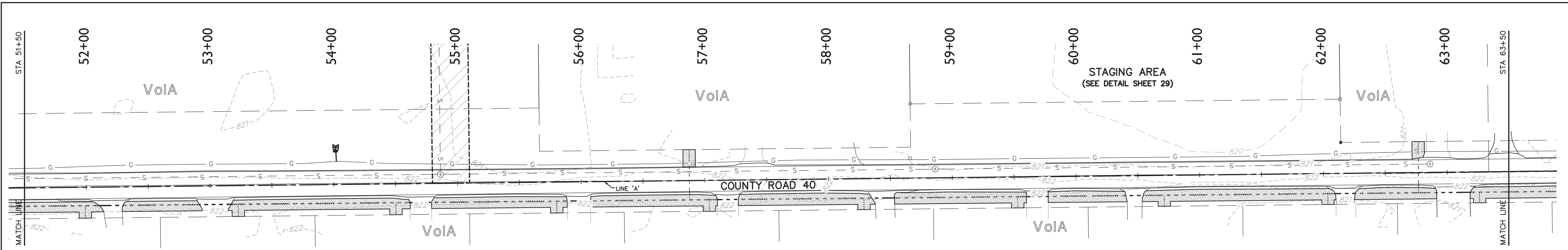
JR Jones
PETRIE RAFINSKI
 your one single source
 South Bend, Indiana
 P: 574.232.1888
 For: Wayne, Indiana
 P: 260.422.2322
 P: 574.232.1888



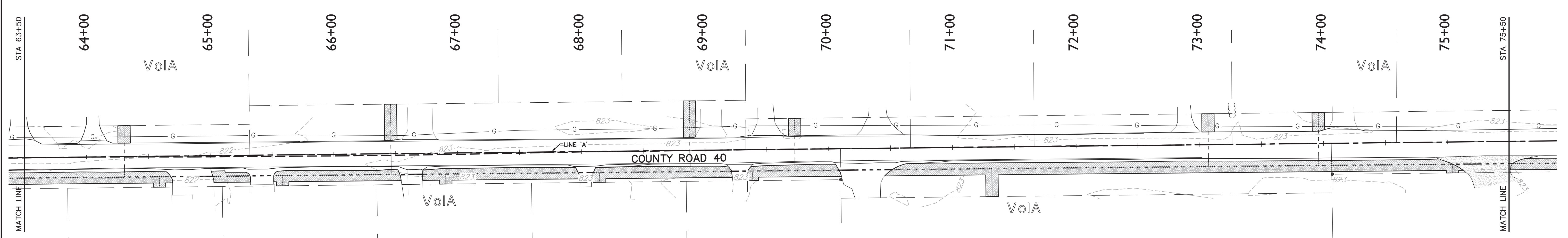
6/2/2017
 COUNTY ROAD 40 / U.S. HIGHWAY 33
 WATER UTILITY EXTENSION
 CITY OF GOSHEN
 204 E. JEFFERSON
 GOSHEN, IN
 EROSION CONTROL PLAN

DESIGNED BY: CHIRAG PATEL
 DRAWN BY: REZ
 DATE: DECEMBER 2016
 JOB NUMBER: 2017-0012
 SCALE: 1"=40'
 26

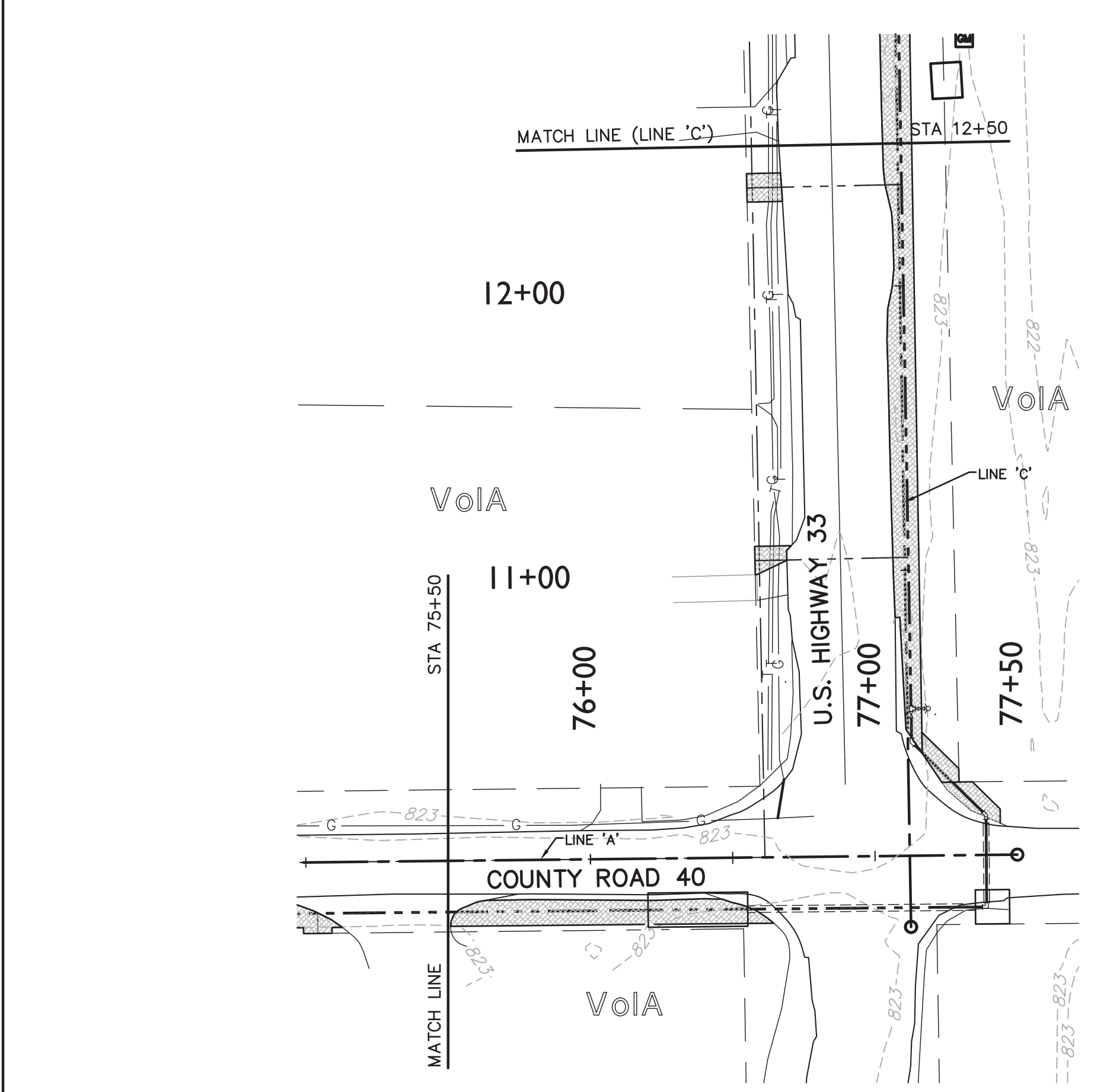




EROSION CONTROL PLAN - COUNTY ROAD 40 - STA. 51+50 TO STA. 63+50



EROSION CONTROL PLAN - COUNTY ROAD 40 - STA. 63+50 TO STA. 75+50



EROSION CONTROL PLAN - COUNTY ROAD 40 - STA. 75+50 TO STA. 77+00
U.S. HIGHWAY 33 - STA. 10+00 TO STA. 12+50

EROSION CONTROL LEGEND

- CONTRACTOR PARKING
- MATERIAL STORAGE
- TEMPORARY STOCKPILE
- CONCRETE WASHOUT
- SILT FENCE, PROPERLY ANCHORED
- TEMPORARY MULCH SEEDING (AS NEEDED)
- TEMPORARY CONSTRUCTION ENTRANCE

SOILS LEGEND

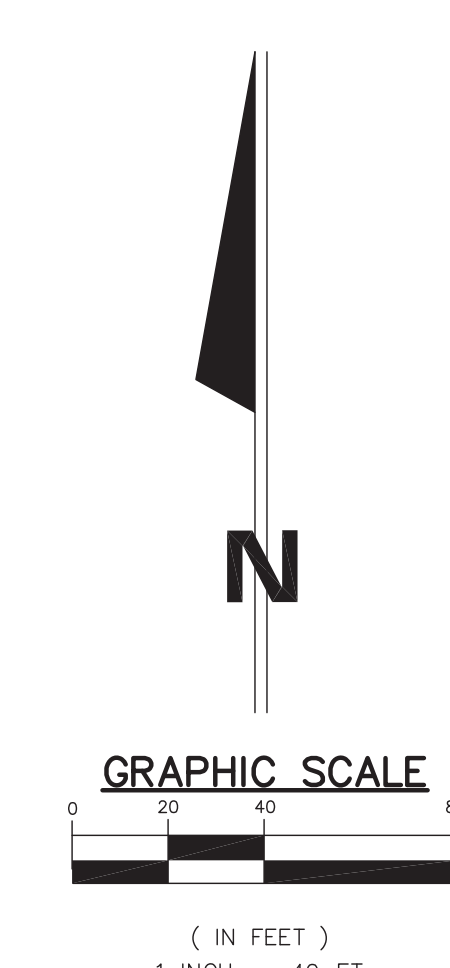
Voia
Volinia Loam, 0 TO 1% SLOPES

SETTING:
LANDFORM: OUTWASH PLAINS
POSITION ON THE LANDFORM: SWELLS

SOIL PROPERTIES AND QUALITIES:
PARENT MATERIAL: OUTWASH
DRAINAGE CLASS: WELL DRAINED
AVAILABLE WATER CAPACITY: MODERATE (ABOUT 6.1 INCHES IN THE UPPER 60 INCHES)

COMPOSITION:
VOLINIA SOIL AND SIMILAR INCLUSIONS: 98 PERCENT
CONTRASTING INCLUSIONS: 2 PERCENT

HAZ-MAT/CHEMICAL SPILL NOTIFICATION
State Fire Marshals Office: 1-800-669-7362
IDEM Environmental Emergencies: 1-888-233-7745
PETROLEUM PRODUCT SPILLS IN THE AMOUNT OF 55 GALLONS OR MORE MUST BE REPORTED TO IDEM REGARDLESS OF CLEANUP METHODS.
City of Goshen Stormwater Pollution: 1-574-534-2201
Elkhart County Emergency Spills: (911)



REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17
REVISED PER INDOT REVIEW COMMENTS	5-3-17
REVISED PER REVIEW COMMENTS	3-14-17
REVIEW SUBMITTAL	REZ
REVISED PER PRELIMINARY REVIEW	12-16-16
REVISED PER PRELIMINARY REVIEW	11-23-16
REV	BY
DESCRIPTION	DATE

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TERRITORIAL ENGINEERING, LLC
WALKERTON - WWW.TELCO.COM - INDIANA

JPR JONES PETRIE RAFINSKI
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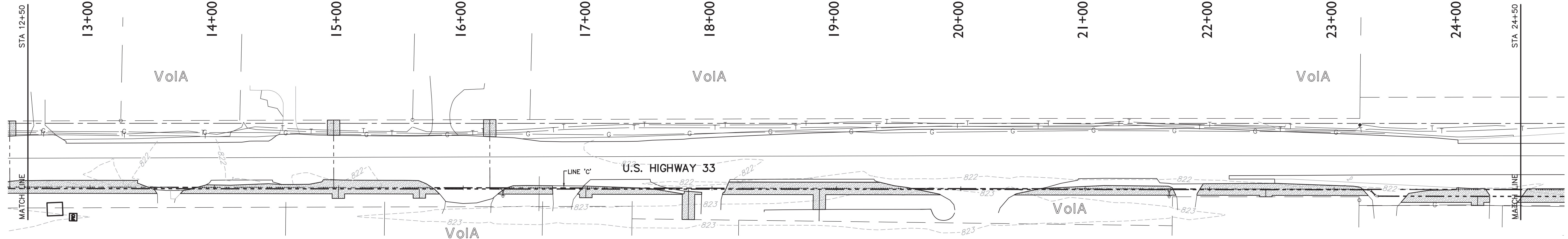
Elkhart, Indiana P: 574.293.7762
South Bend, Indiana P: 574.332.1888
Fort Wayne, Indiana P: 260.422.2822
Phone: (574) 338-9448
Email: team@telco.com

CHIRAG PATEL
REGISTERED
NO. 111200182
STATE OF INDIANA
PROFESSIONAL ENGINEER

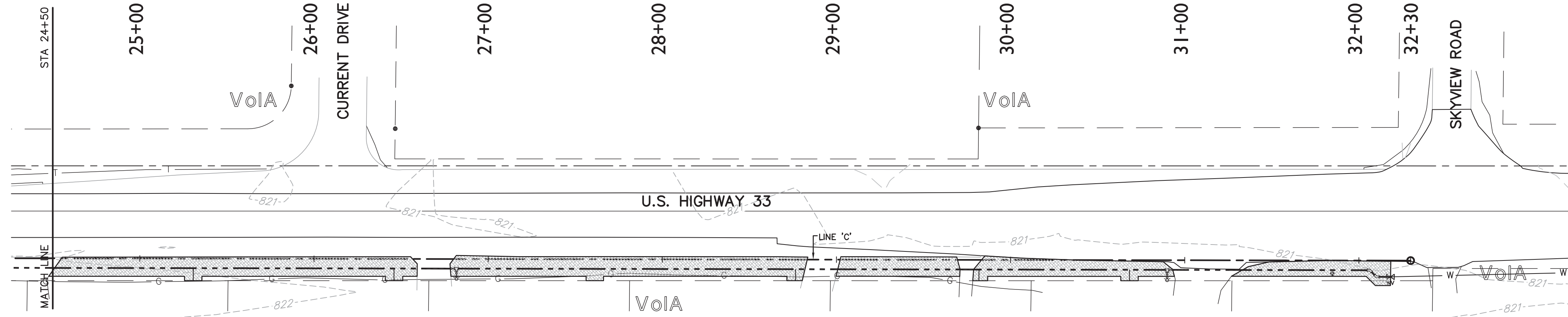
6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN
204 E. JEFFERSON
GOSHEN, IN
EROSION CONTROL PLAN

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EROSION CONTROL PLAN - U.S. HIGHWAY 33 - STA. 12+50 TO STA. 24+50



EROSION CONTROL PLAN - U.S. HIGHWAY 33 - STA. 24+50 TO STA. 32+30

EROSION CONTROL LEGEND

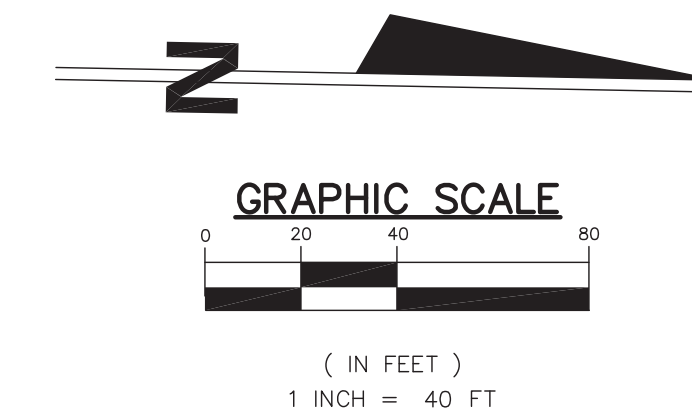
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- TEMPORARY CONSTRUCTION ENTRANCE

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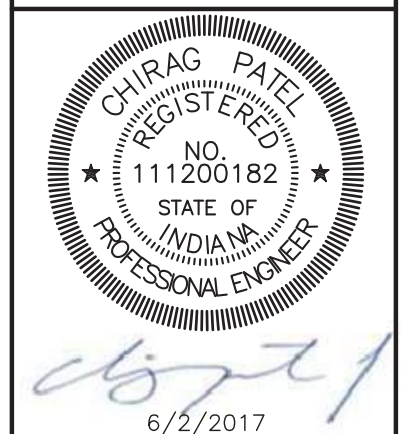


5	REVISED PER CITY OF GOSHEN REVIEW COMMENTS	REZ	6-2-17
4	REVISED PER INDOT REVIEW COMMENTS	REZ	5-3-17
3	REVISED PER REVIEW COMMENTS	REZ	3-14-17
2	REVIEW SUBMITTAL	REZ	12-16-16
1	REVISED PER PRELIMINARY REVIEW	REZ	11-23-16
REV.	DESCRIPTION	BY	DATE

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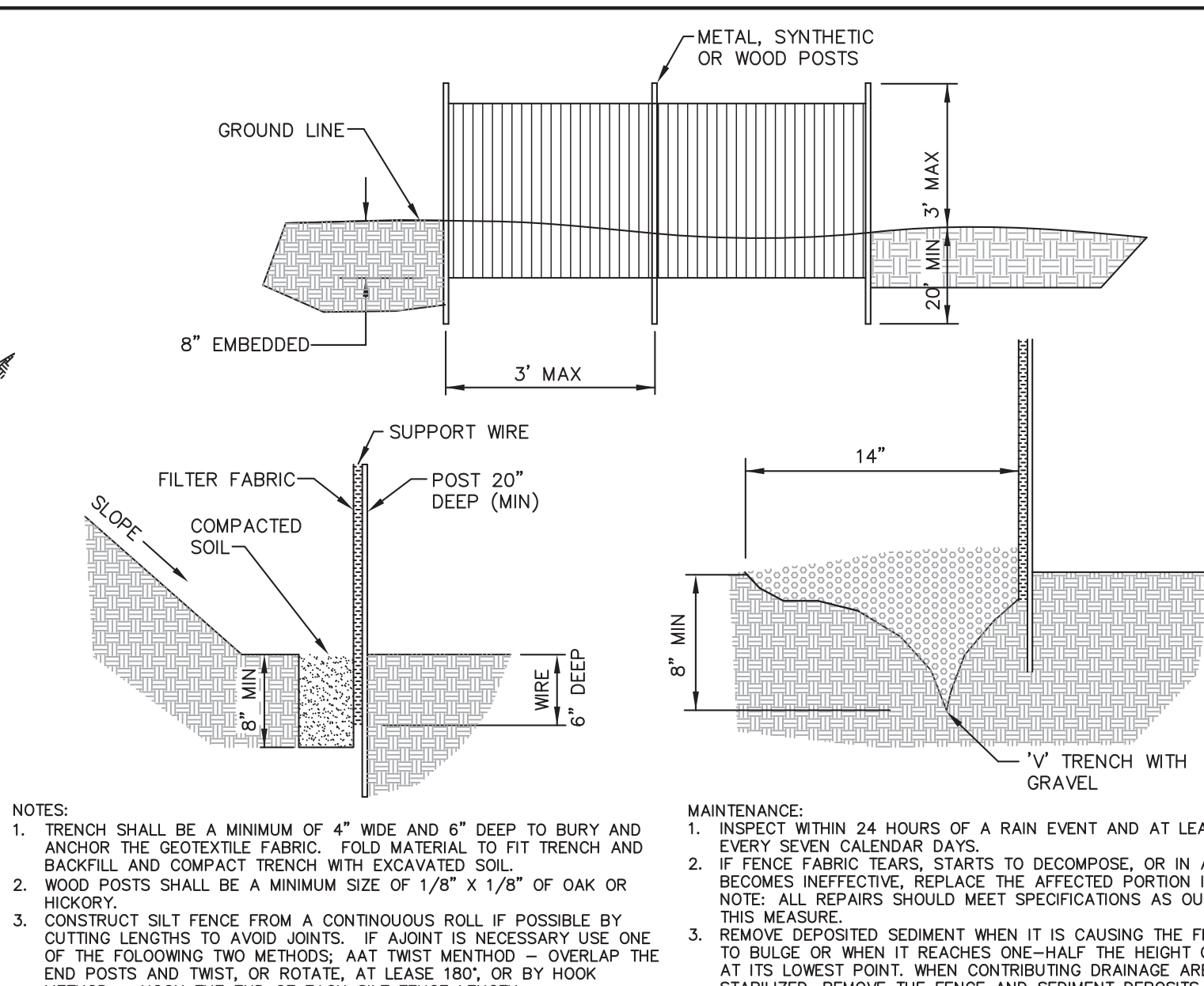
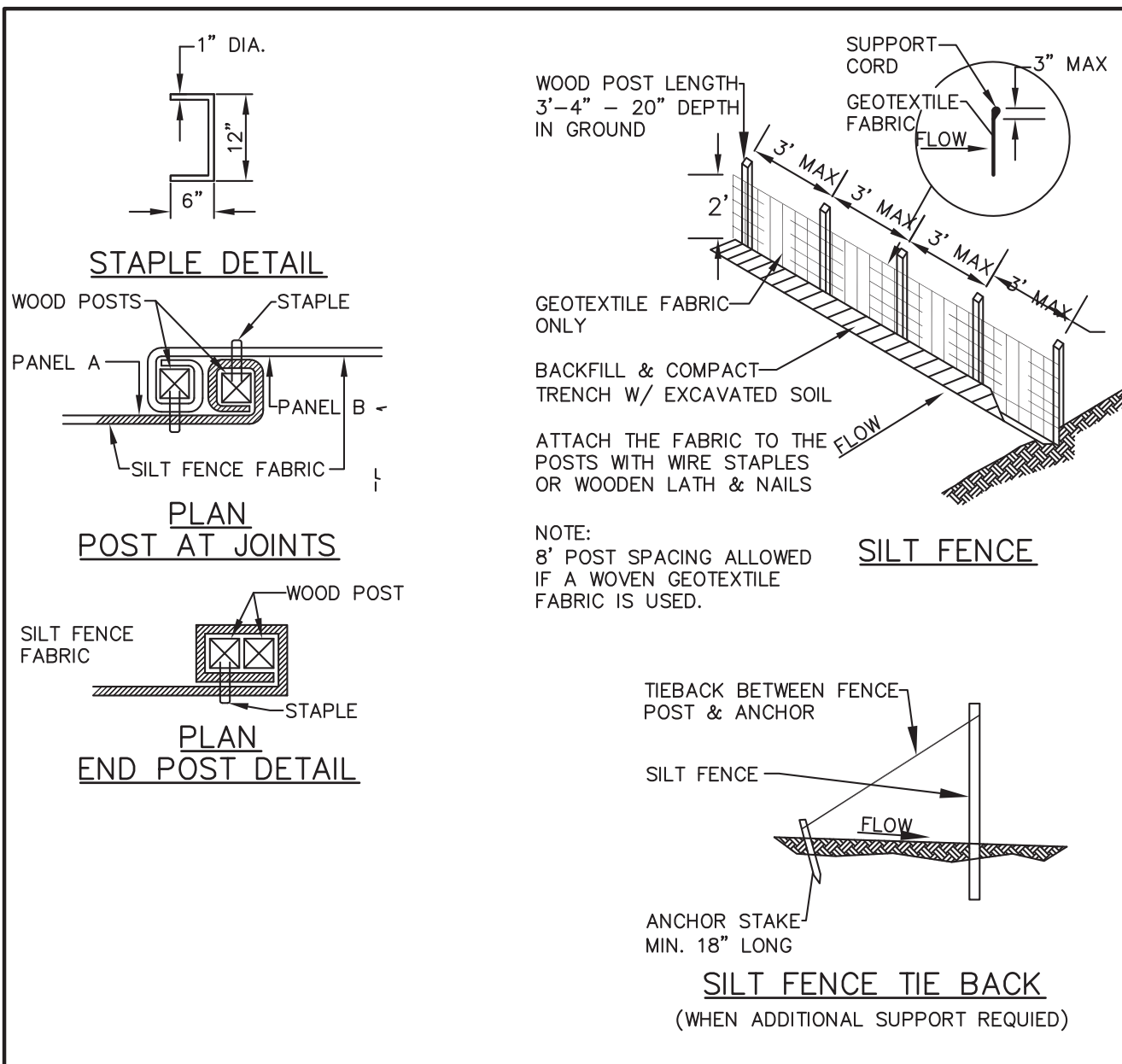
TERRITORIAL ENGINEERING, LLC
 WALKERTON - WWW.TELLSYSTEMS.COM - INDIANA
 Phone: (774) 588-9448
 Email: terr@tel.com (774) 588-9448

JPR JONES PETRIE RAFINSKI
 your one single source
 Elkhart, Indiana P: 574.293.7762
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 WATER UTILITY EXTENSION
 CITY OF GOSHEN
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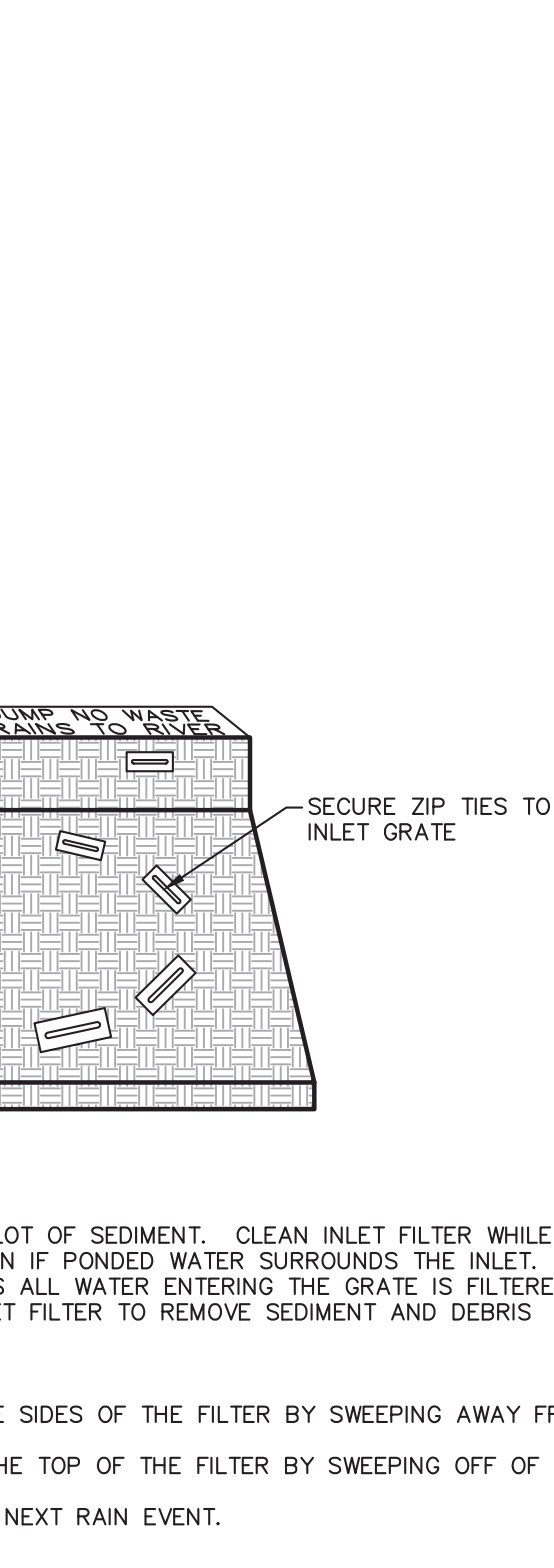
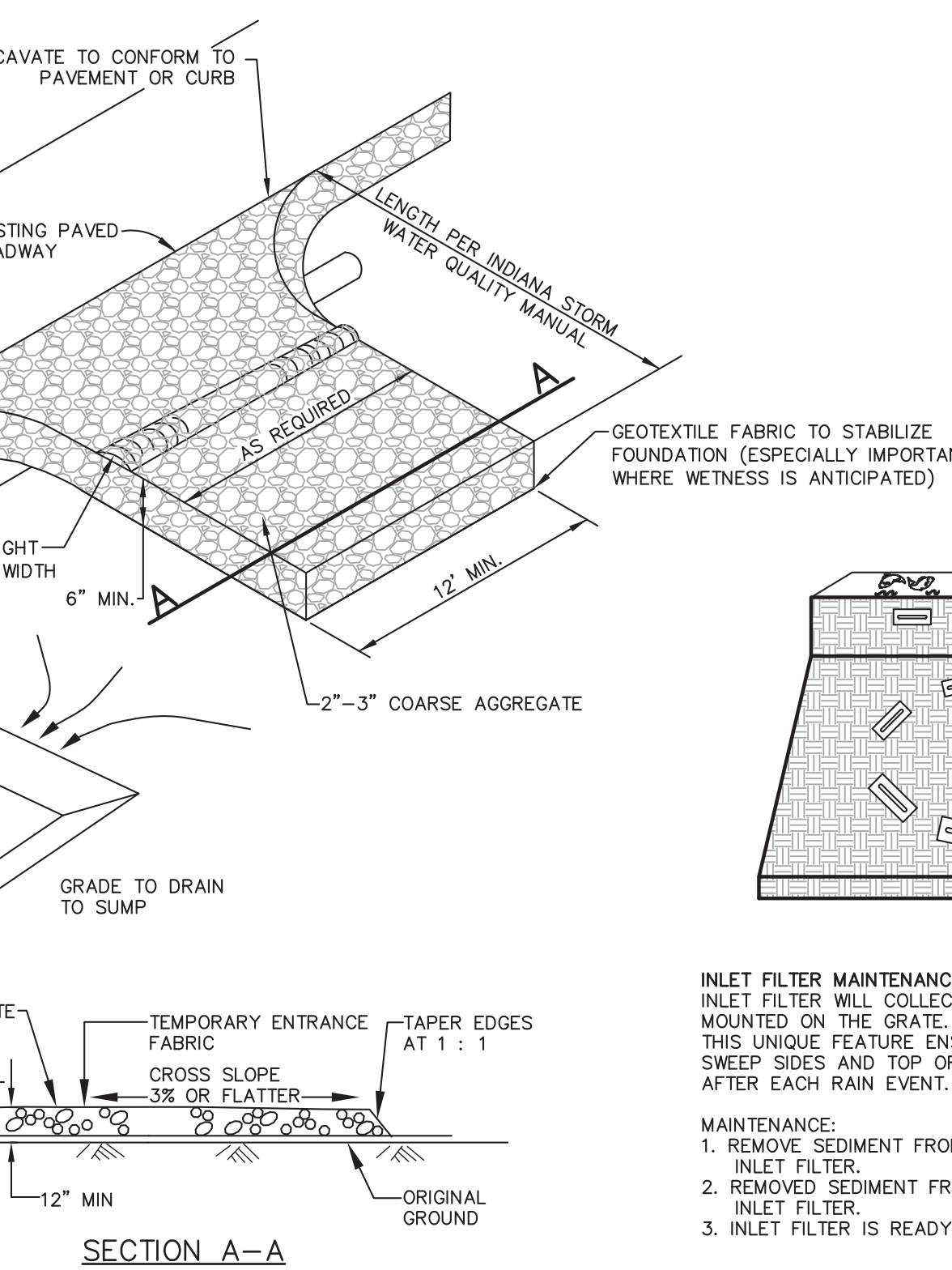
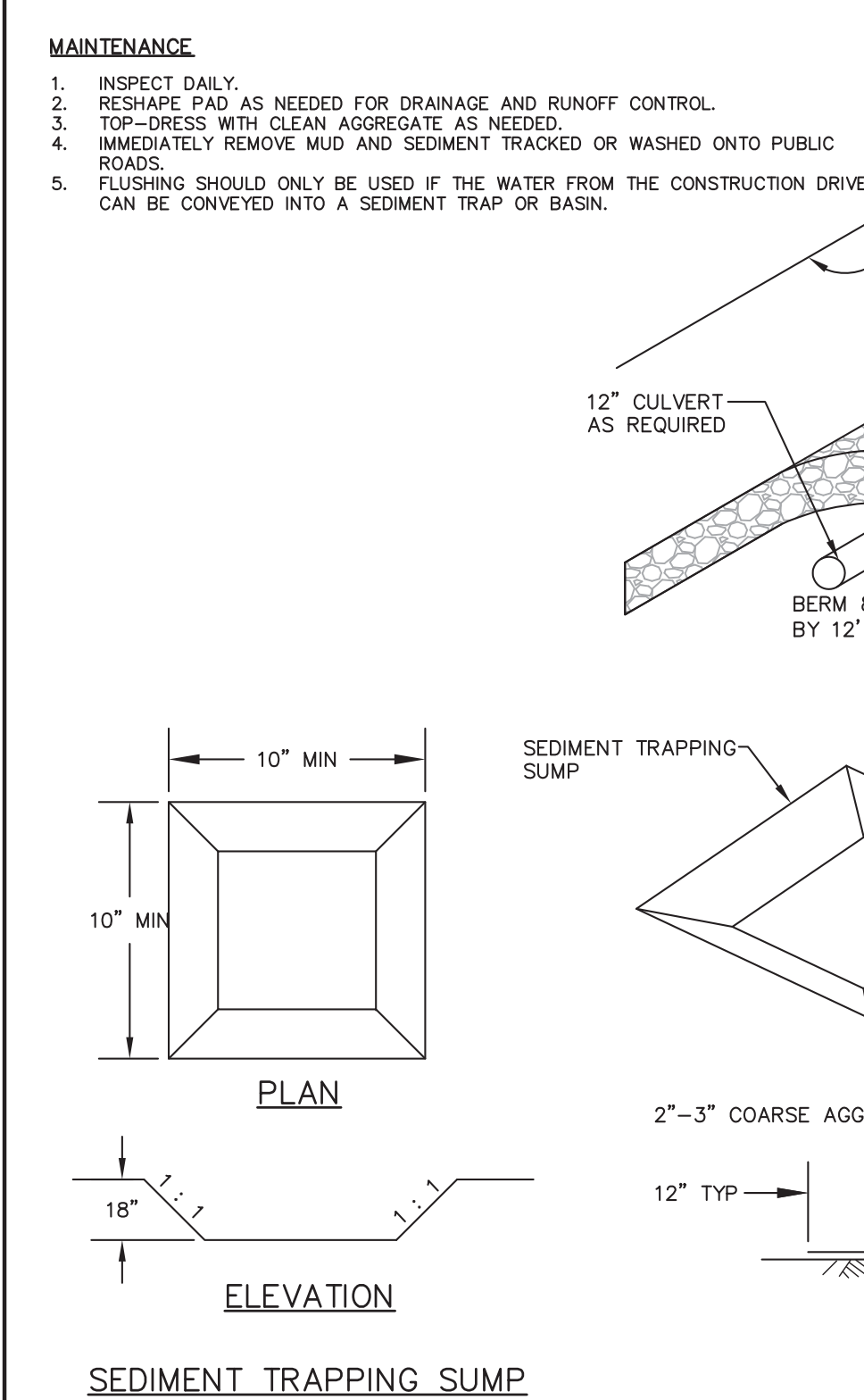
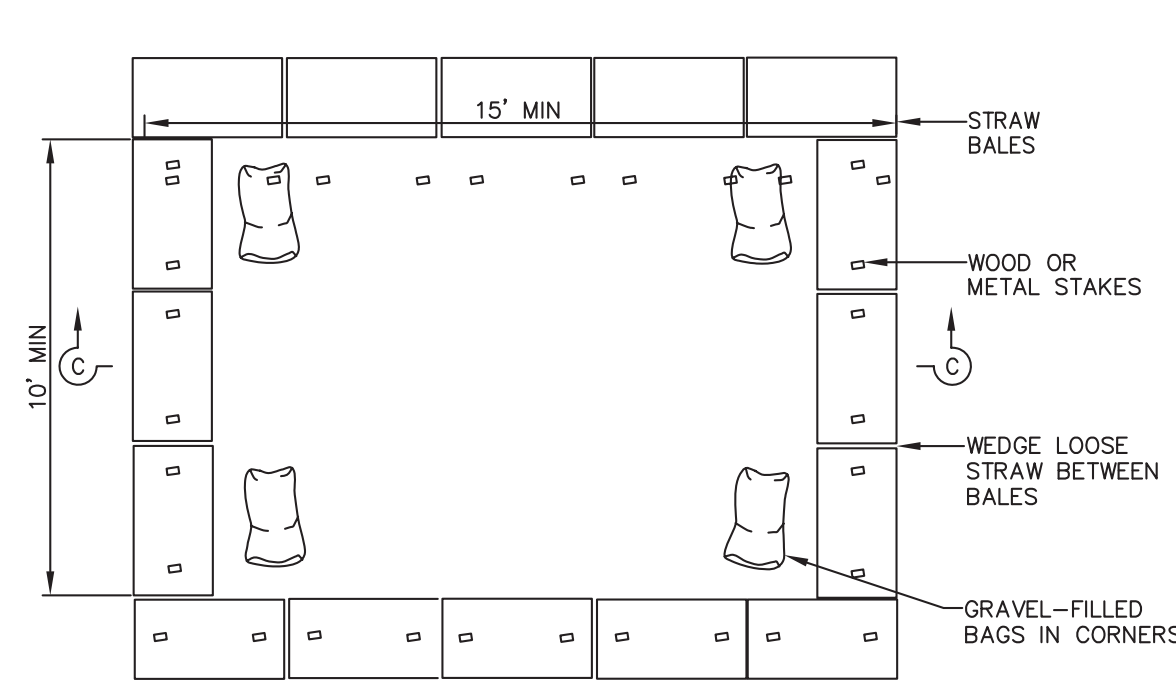
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SILT FENCE - PERIMETER PROTECTION

NO SCALE

- MAINTENANCE**
- INSPECT DAILY AND AFTER EACH STORM EVENT.
 - INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
 - INSPECT FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
 - INSPECT THE POLYETHYLENE LINER FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
 - ONCE CONCRETE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY, USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS. UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
 - DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE, OR HAIL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
 - THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING. THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINER.
 - THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
 - CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE MANNER. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FURTHER DETRAINING.
 - PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
 - INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS IF CONCRETE WASTE IS BEING HANDLED IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
 - WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED, DISPOSED OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
 - HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

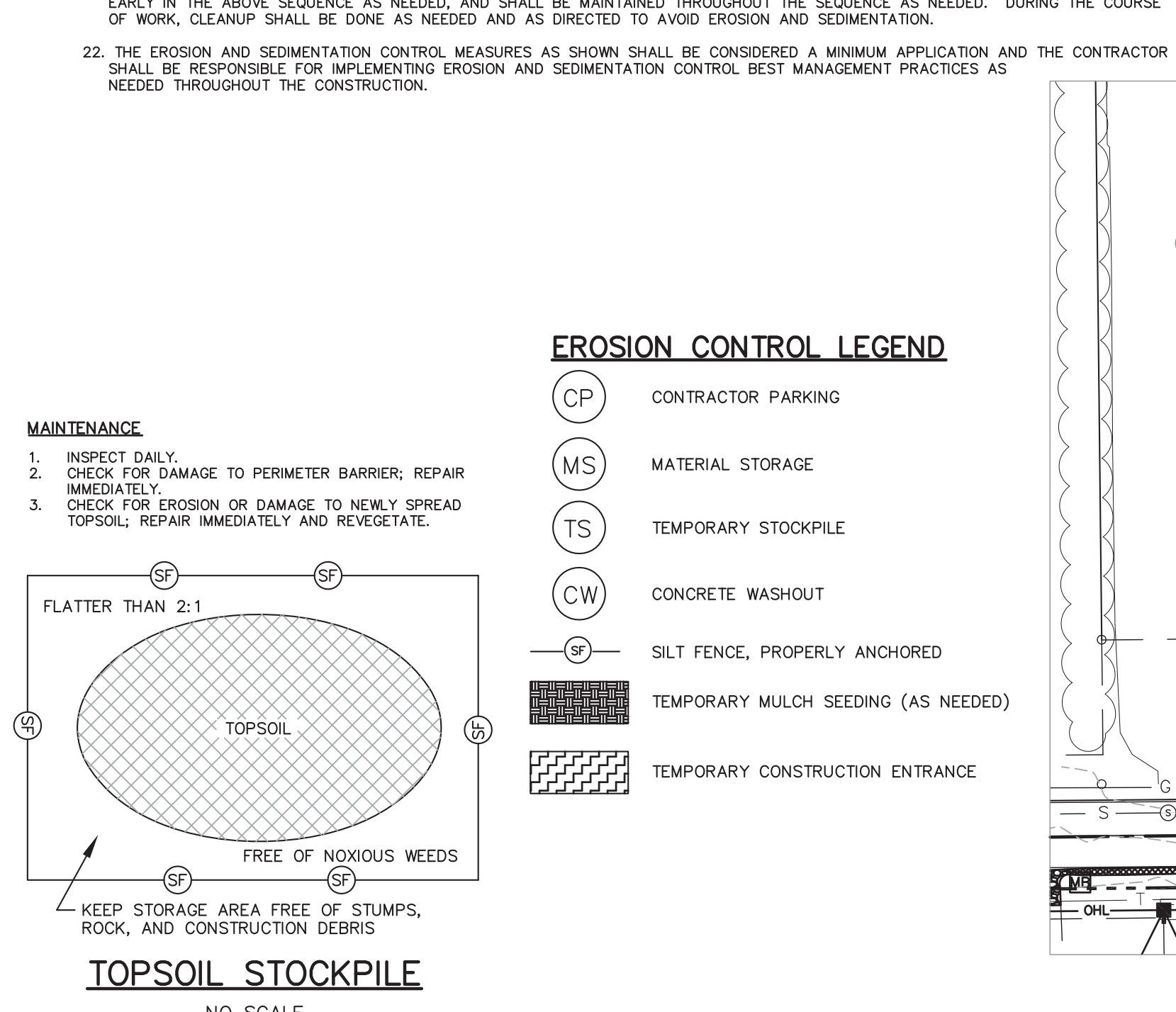


EROSION CONTROL SPECIFICATIONS

- THE CONTRACTOR IS ADVISED THAT THE WORK MUST BE DONE IN COMPLIANCE WITH THE FOLLOWING SPECIFICATIONS, SOME OF WHICH RESULT FROM THE REQUIREMENTS OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT'S STORM WATER PERMITS SECTION. AN APPROVED PERMIT FROM THIS AGENCY IS BASED ON THE CONTRACTOR'S COMPLIANCE WITH THE SPECIFICATIONS AND THE ACTUAL PERMIT DOCUMENTS.
- ALL WORK ASSOCIATED WITH THIS PROJECT SHALL BE PERFORMED IN COMPLETE ACCORDANCE WITH ALL APPLICABLE STANDARDS OF SECTION 402 (P) OF THE CLEAN WATER ACT, 327 IAC 15-5 FOR STORMWATER RUN-OFF ASSOCIATED WITH CONSTRUCTION AND POST-CONSTRUCTION ACTIVITY, THE INDIANA STORMWATER QUALITY MANUAL, AND ANY AND ALL OTHER APPLICABLE STATUTES AND ORDINANCES.
- THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS, UTILITIES PROVIDERS, AND MATERIALS PROVIDERS OF THE CONDITIONS AND STANDARDS OF THIS STORMWATER POLLUTION PREVENTION PLAN AND THE CONSTRUCTION SEQUENCE SCHEDULE.
- CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL PRACTICES WEEKLY AND AFTER STORM EVENTS OF 1/2" OR MORE OF PRECIPITATION WITHIN ONE BUSINESS DAY OR AFTER HEAVY USE AND REPAIR AND MAINTAIN IN ACCORDANCE TO THE MAINTENANCE GUIDELINES FOR THAT EROSION AND SEDIMENT CONTROL PRACTICE.
- THE CONTRACTOR SHALL KEEP A LOG OF THE CONTRACTOR'S INSPECTION OF TEMPORARY EROSION CONTROL MEASURES. THE LOG SHALL BE AVAILABLE AT THE JOB SITE FIELD OFFICE DURING ALL WORK DAY HOURS FOR REVIEW BY VISITING IDNR INSPECTORS, SWCD INSPECTORS AND THE ENGINEER. THE LOG SHALL BE BRIEF, BUT SHALL INCLUDE THE NAME OF CONTRACTOR'S INSPECTOR, DATE OF INSPECTION, MAN HOURS OF CONTRACTOR'S INSPECTION TIME AND COMMENTS ON ANY AND ALL FAILED OR FAILING EROSION CONTROL FEATURES ALONG WITH THE MEASURES TAKEN FOR PROMPT CORRECTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL PRACTICES UNTIL COMPLETION OF PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH UTILITIES WITH RESPECT TO AVOIDING CONFLICTS AND DISTURBANCE OF SERVICES.
- THE CONTRACTOR SHALL HAVE ON FILE, AT THE SITE, THE "INDIANA STORMWATER QUALITY MANUAL."
- CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL AND REMOVE EXCESS FROM SITE AS APPROVED BY THE OWNER UPON SUBSTANTIAL COMPLETION OF THE WORK.
- TOPSOIL STOCKPILES ARE TO BE PROTECTED FROM EROSION. TEMPORARY TOPSOIL STOCKPILES WILL ONLY BE PERMITTED IN AREAS APPROVED BY THE ENGINEER.
- STOCKPILES OF EARTH MATERIAL SHALL BE SHAPED AS PER STATE STANDARDS. TOPSOIL MATERIALS SHALL BE STOCKPILED SEPARATELY FROM OTHER SOILS.
- CONTRACTOR SHALL CONTROL DUST ON THE PROJECT SITE WHEN NECESSARY USING FOLLOWING METHODS:
 - WATERING
 - SPRINKLE SOIL SURFACE UNTIL SOIL IS MOIST.
 - APPLY AT A RATE TO KEEP THE SOIL MOIST/WET BUT NOT SATURATED OR MUDDY.
 - REAPPLY AS REQUIRED. CONSTANT REPLICATION IS REQUIRED FOR EFFECTIVE CONTROL.
 - STREET SWEEPING
 - CHOOSE A METHOD THAT DOES NOT GENERATE LARGE AMOUNTS OF DUST.
 - CLEAR SEDIMENT FROM THE PAVED AREAS.
 - DISPOSE OF ALL CLEARED MATERIAL PROPERLY SO THAT IT IS NOT REDEPOSITED IN THE STREET.
- MAINTENANCE:
 - INSPECT DAILY.
 - REPEAT TREATMENTS AS NEEDED WHEN USING TEMPORARY DUST CONTROL METHODS.
 - COMMERCIAL PRODUCTS SHOULD BE USED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND CONTAINING OF LIQUID OR SOLUBLE CONSTRUCTION MATERIALS FOR THE PROTECTION OF THE GROUNDWATER RESOURCES. ANY ACCIDENTAL SPILLAGE SHALL BE CLEANED UP IMMEDIATELY BY ACCEPTABLE MEANS. REGARDLESS OF THE TIME OF DAY OR DAY OF WEEK, THE FOLLOWING AGENCIES/DEPARTMENTS SHALL BE CONTACTED AS REQUIRED, IDEM, AND CITY OF GOSHEN STORMWATER POLLUTION.
- THE CONTRACTOR'S BID SHALL INCLUDE THE USE OF TEMPORARY GRAVEL ENTRANCE PADS (INCIDENTAL TO THE CONTRACT) WHERE APPROVED HAULING ROUTES CONNECT TO ROADWAYS. THE WORK SHALL INCLUDE THE EVENTUAL REMOVAL OF SUCH GRAVEL PADS, AND THE INCIDENTAL GRADING, SEEDING, OR SOODING REQUIRED TO RETURN THE PAD AREAS TO ORIGINAL CONDITION. THE TEMPORARY GRAVEL PADS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE ATTACHED DETAIL TITLED TEMPORARY GRAVEL ACCESS PAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPTLY CLEANING UP ANY MATERIALS FROM PUBLIC ROADWAYS, WHICH ARE THE RESULT OF WORK OPERATIONS.
- THE ENTERING AND EXITING OF EQUIPMENT AND HAULING TRAFFIC FROM THE WORK SITE SHALL BE DONE IN A SAFE MANNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EQUIPMENT OPERATORS AND HAUL TRUCK DRIVERS, ETC., USE CAUTION AND ACCEPTABLE SPEEDS DURING THE WORK.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PADS PRIOR TO OTHER SITE OPERATIONS. REMOVE ALL VEGETATION AND OTHER OBSTACLES MATERIAL FROM THE FOUNDATION AREA AND GRADE AND CROWN FOR POSITIVE DRAINAGE. THE TEMPORARY GRAVEL PADS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE ATTACHED DETAIL TITLED TEMPORARY GRAVEL ACCESS PAD.
- CONTRACTOR SHALL PERMANENTLY SEED, FERTILIZE, AND MULCH OR BLANKET ALL FINAL GRADE AREAS AS EACH IS COMPLETED. SEEDING, FERTILIZING, MULCHING AND BLANKETING SHALL BE IN COMPLIANCE WITH TYPE "U" MULCHED SEEDING PER INDOT'S STANDARD SPECIFICATIONS 621.06. THE SEED MIXTURE SHALL BE APPLIED AT A RATE OF 150 LB./ACRE. THE MIXTURE SHALL CONSIST OF:

SPECIES	RATE/ACRE	OPTIMUM PLANTING
TRIBUTE, REBEL II, TRAILBLAZER, OR APPROVED EQUAL	50#	3-1 THRU 5-15 AND 8-1 THRU 9-15
JASPER RED FESCUE OR APPROVED EQUAL	20#	3-1 THRU 5-15 AND 8-1 THRU 9-15
FINE BLADED PERENNIAL RYEGRASS	35#	3-1 THRU 5-15 AND 8-1 THRU 9-15
- TEMPORARY GRASS SEEDING SHALL BE PERFORMED ON ALL AREAS SCHEDULED, OR LIKELY, TO REMAIN INACTIVE FOR A PERIOD OF 15 DAYS OR MORE. TEMPORARY SEEDING SHALL BE INCIDENTAL TO THE CONTRACT AND SHALL INCLUDE THE FOLLOWING SPECIES AND RATES:

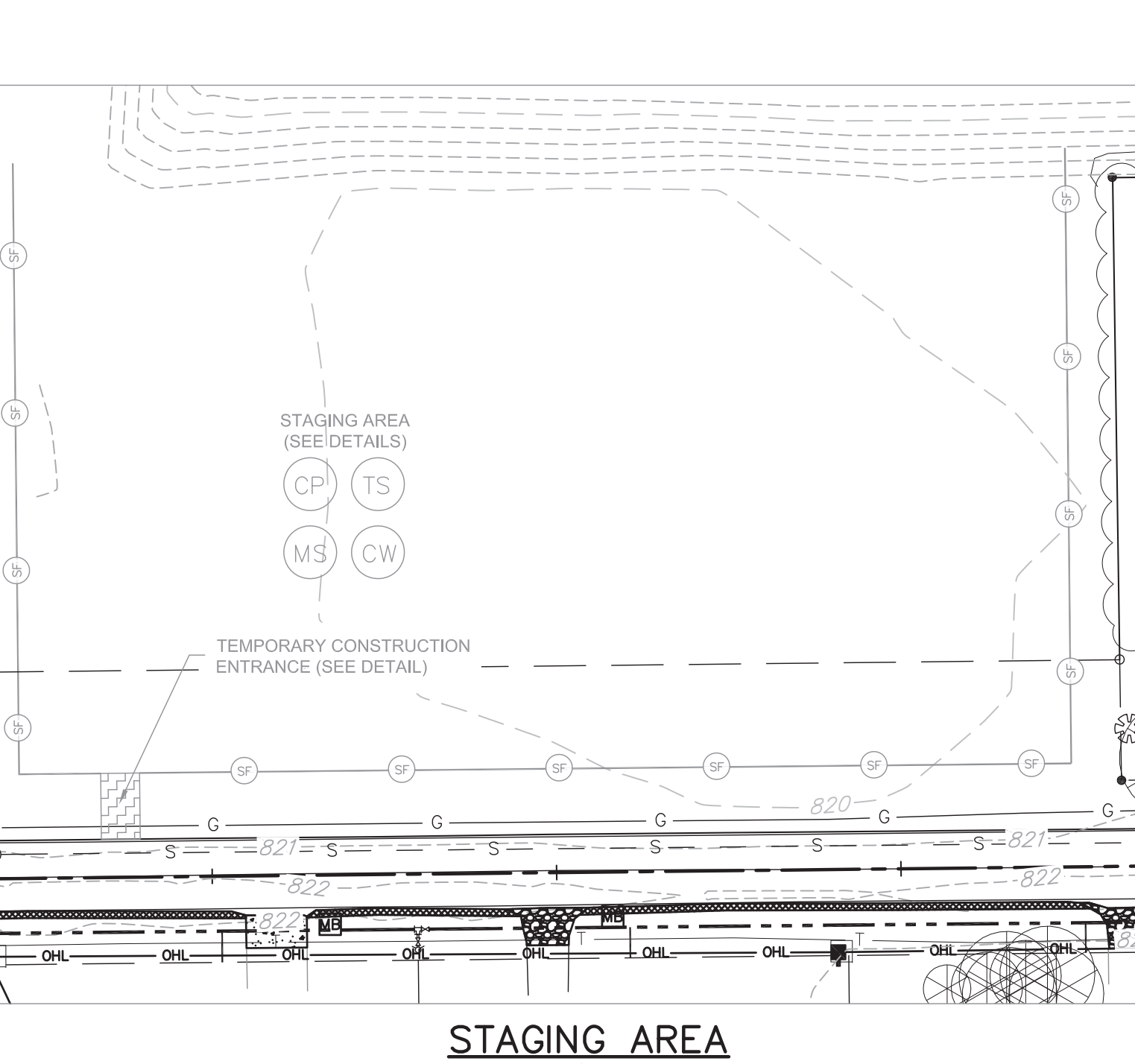
SEEDS	RATE/ACRE	OPTIMUM PLANTING
WHEAT OR RYE	150#	9/15 TO 10/30
SPRING OATS	100#	3/1 TO 4/15
ANNUAL RYE GRASS	40#	3/1 TO 5/1, 8/1 TO 9/1
- A FERTILIZER APPLICATION OF 400# / ACRE OF 12-12-12 ANALYSES MATERIAL SHALL ACCOMPANY THE SEEDING APPLICATION. MULCHING OF TEMPORARY SEEDING SHALL BE "AS NEEDED".
- PERMANENT SEEDING SHALL BE DONE PROMPTLY AND PROGRESSIVELY AS WORK IS COMPLETED IN ORDER TO ALLOW FOR THE EARLIEST POSSIBLE ESTABLISHMENT OF STABILIZED GRASS. MULTIPLE MOBILIZATIONS FOR THE SEEDING OF SPECIFIC SECTIONS SHALL BE INCLUDED IN THE WORK.
- THE JOB WIDE SEQUENCE OF GENERAL WORK OPERATIONS RELATING TO EARTH DISTURBING ACTIVITIES SHALL BE SUCH AS TO PREVENT THE POTENTIAL FOR EROSION AND SEDIMENTATION. THE SEQUENCE SHALL BE GENERALLY AS FOLLOWS, WHILE ALSO CONSIDERING MAINTENANCE OF TRAFFIC.
 - CONSTRUCTION WARNING SIGNAGE
 - CLEARING OF RIGHT-OF-WAY
 - TEMPORARY SEEDING AS NEEDED - INCIDENTAL APPLICATIONS THROUGHOUT CONSTRUCTION
 - UTILITY CONSTRUCTION
 - ROUGH GRADING / FINE GRADING
 - PAVEMENT CONSTRUCTION
 - COMPLETION OF PERMANENT SEEDING & MULCH
 - INSTALLATION OF EROSION CONTROL BLANKETS ON SLOPES (IF REQUIRED)
 - MISCELLANEOUS CONSTRUCTION
 - FINAL CLEANUP
- TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED AT THE TIME OF CLEARING RIGHT-OF-WAY AS EARLY IN THE ABOVE SEQUENCE AS NEEDED, AND SHALL BE MAINTAINED THROUGHOUT THE SEQUENCE AS NEEDED. DURING THE COURSE OF WORK, CLEANUP SHALL BE DONE AS NEEDED AND AS DIRECTED TO AVOID EROSION AND SEDIMENTATION.
- THE EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN SHALL BE CONSIDERED A MINIMUM APPLICATION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES AS NEEDED THROUGHOUT THE CONSTRUCTION.



- THIS PROJECT CONSIST OF THE CONSTRUCTION OF A NEW WATER MAIN.
- THIS SWPPP SHALL BE INCLUDED WITH THE FINAL CONSTRUCTION PLANS AND SPECIFICATIONS FOR THESE PROJECTS. EROSION CONTROL SHALL BE IMPLEMENTED AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION CONTRACT. MAINTENANCE WILL CONTINUE BEYOND THIS DATE UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED.
- STORMWATER FROM THE PROJECT WILL ULTIMATELY DISCHARGE TO ROCK RUN CREEK/HORN DITCH AND THE ELKHART RIVER.
- THIS PROJECT DOES NOT INVOLVE ANY GRADING OR ANY ADDITIONAL HARD SURFACES, THEREFORE THE PRE-CONSTRUCTION AND POST-CONSTRUCTION RUNOFF WILL BE THE SAME.
- EXISTING LAND USE - AGRICULTURAL AND ROAD RIGHT-OF-WAY
- HYDROLOGIC UNIT CODE: 04050001210010 (ELKHART RIVER), 04050001210030 (ROCK RUN CREEK/HORN DITCH AND ELKHART RIVER)
- PROJECT REQUIRES NO FEDERAL OR STATE WATER QUALITY PERMITS.
- THERE IS NO OFF-SITE CONSTRUCTION ACTIVITY THAT OCCURS FOR THIS PROJECT.
- DEVELOPMENT DOES NOT APPEAR TO CONTAIN WETLAND AREAS AS DELINEATED IN THE NATIONAL WETLAND INVENTORY MAPS BY THE U.S. DEPT. OF FISH AND WILDLIFE SERVICE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH UTILITIES WITH RESPECT TO AVOIDING CONFLICTS AND DISTURBANCE OF SERVICES.
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GENERAL NOTES

- ALL SPOIL MATERIAL TO BE DISPOSED OF AT AN APPROVED OFFSITE COMMERCIAL SITE PROVIDED BY THE CONTRACTOR.
- APPROPRIATE MEASURES SHALL BE IMPLEMENTED TO MINIMIZE OR ELIMINATE WASTES OR UNUSED BUILDING MATERIALS, INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, CONCRETE TRUCK WASHOUT, AND OTHER SUBSTANCES FROM BEING CARRIED FROM THE PROJECT SITE BY RUN-OFF OR WIND. WASTES AND UNUSED BUILDING MATERIALS SHALL BE MANAGED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE STATUTES AND REGULATIONS.
- APPROPRIATE SOLID WASTE RECEPTACLES SHALL BE PROVIDED TO ALLOW FOR PROPER DISPOSAL OF CONSTRUCTION WASTES AND DEBRIS.
- THE CONTRACTOR SHALL UTILIZE THE INGRESS/EGRESS POINT, STAGING AREAS, CONSTRUCTION PERSONNEL PARKING, AND CONSTRUCTION TRAFFIC ROUTES AS INDICATED ON THESE PLANS IN ORDER TO MINIMIZE EFFECTS ON ESTABLISHED OR FRESHLY PLANTED VEGETATION.
- FINAL STABILIZATION OF THE PROJECT SITE SHALL BE DEEMED ACHIEVED WHEN ALL LAND DISTURBANCE ACTIVITIES HAVE BEEN COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF SEVENTY PERCENT (70%) HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED.
- MATERIAL HANDLING AND STORAGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES SHALL MEET THE SPILL PREVENTION AND RESPONSE REQUIREMENTS OF 327 IAC 2-6-1.
- SPILL NOTIFICATION--AS SOON AS THE CONTRACTOR HAS INFORMATION OF ANY KNOWN OR SUSPECTED RELEASE OF MATERIALS WHICH ARE RESULTING OR MAY RESULT IN ILLEGAL DISCHARGES OR POLLUTANTS DISCHARGING INTO STORMWATER, THE STORM DRAIN SYSTEM, OR WATERS OF THE U.S., THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE THE DISCOVERY, CONTAINMENT, AND CLEANUP OF SUCH RELEASE. SPILL OF HAZARDOUS MATERIALS SHALL BE REPORTED IMMEDIATELY VIA LOCAL EMERGENCY DISPATCH SERVICES. SPILL OF NON-HAZARDOUS MATERIALS SHALL BE REPORTED IMMEDIATELY.
- PROPER STORAGE AND HANDLING OF MATERIALS, SUCH AS FUELS OR HAZARDOUS WASTES, AND SPILL PREVENTION AND CLEAN-UP MEASURES SHALL BE IMPLEMENTED TO MINIMIZE THE POTENTIAL FOR POLLUTANTS TO CONTAMINATE SURFACE OR GROUND WATER OR DEGRADE SOIL QUALITY.
- HAZARDOUS WASTE MATERIALS SHALL BE SECURELY STORED IN A SHED, TRAILER, OR BUILDING THAT CAN BE LOCKED TO PREVENT VANDALISM OR UNAUTHORIZED ACCESS.
- MAINTENANCE OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN A PROPERLY EQUIPPED SHOP NOT AT THE CONSTRUCTION SITE.
- ALL PETROLEUM STORAGE TANKS SHALL MEET STATE REGULATORY REQUIREMENTS FOR CONTAINMENT TO PREVENT SPILLS, LEAKS, AND OTHER DISCHARGES FROM COMING IN CONTACT WITH THE SOIL AND GROUNDWATER. MATERIALS AND EQUIPMENT NECESSARY FOR CLEANUP PROCEDURES SHALL BE KEPT READILY AVAILABLE ON THE PROJECT SITE, EITHER AT AN EQUIPMENT STORAGE AREA OR ON THE CONTRACTOR'S VEHICLES.
- POLLUTANTS AND SOURCES (C1)**
ACTIVITIES AT THE SITE (BOTH DURING AND POST-CONSTRUCTION) THAT MAY GENERATE POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO VEHICLE OPERATION AND MAINTENANCE (E.G., FUELING AND CHANGING OF HYDRAULIC FLUIDS AND OILS); SEDIMENT FROM CONSTRUCTION ACTIVITIES; CONCRETE WASHOUT; IMPROPER STORAGE OF MATERIALS; IMPROPER DISPOSAL OF TRASH AND DEBRIS; IMPROPER APPLICATION OR OVER-APPLICATION OF FERTILIZERS; AND IMPROPER STORAGE, APPLICATION, AND DISPOSAL OF SOLUBLE MATERIALS OR OTHER MATERIALS THAT CAN BE MOBILIZED BY STORMWATER RUNOFF.
- SEQUENCE FOR STORMWATER QUALITY MEASURE IMPLEMENTATION (C2)**
THE CONTRACTOR IS RESPONSIBLE TO COMPLETE PERMANENT SEEDING IN COMPLIANCE TO ITEM 17 OF THE EROSION CONTROL SPECIFICATIONS. CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO PRE-CONSTRUCTION CONDITION PRIOR TO COMPLETION OF PROJECT.
- DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES (C3)**
DUE TO THE NATURE OF THIS PROJECT AND THAT THE PRIMARY STORMWATER QUALITY MEASURE IS EXISTING VEGETATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE PERMANENT SEEDING IN COMPLIANCE TO ITEM 17 OF THE EROSION CONTROL SPECIFICATIONS. CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO PRE-CONSTRUCTION CONDITION PRIOR TO COMPLETION OF PROJECT.
- LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF STORMWATER QUALITY MEASURE (C4)**
CONTRACTOR IS RESPONSIBLE TO RETURN ANY AND ALL DISTURBED AREAS DUE TO CONSTRUCTION OF THIS PROJECT TO PRE CONSTRUCTION CONDITION. SEE EROSION CONTROL DETAILS AND NOTES SHEET FOR ALL DETAILS AND SPECIFICATIONS.
- DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURES (C5)**
THE LONG TERM MAINTENANCE WILL BECOME THE RESPONSIBILITY OF THE LAND OWNER TO MAINTAIN THE VEGETATION ONCE THE CONTRACTOR HAS RESTORED ANY AND ALL DISTURBED AREAS TO PRECONSTRUCTION CONDITIONS.



REVISED PER CITY OF GOSHEN REVIEW COMMENTS

REV	DATE	DESCRIPTION
1	11-23-16	REVISED PER PRELIMINARY REVIEW
2	11-23-16	REVISED PER SUBMITTAL
3	3-14-17	REVISED PER REVIEW COMMENTS
4	5-3-17	REVISED PER INDOT REVIEW COMMENTS
5	6-2-17	REVISED PER CITY OF GOSHEN REVIEW COMMENTS

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: NONE

29

CHIRAG PATEL REGISTERED NO. 111200182 STATE OF INDIANA PROFESSIONAL ENGINEER

6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33 WATER UTILITY EXTENSION CITY OF GOSHEN

304 E. JEFFERSON GOSHEN, IN

EROSION CONTROL DETAILS AND NOTES

JONES PETRIE RAFINSKI your one single source

South Bend, Indiana Phone: (574) 232-1488 Fax: (574) 232-1488
Elkhart, Indiana Phone: (574) 232-1488 Fax: (574) 232-1488
Walkerton, Indiana Phone: (574) 232-1488 Fax: (574) 232-1488

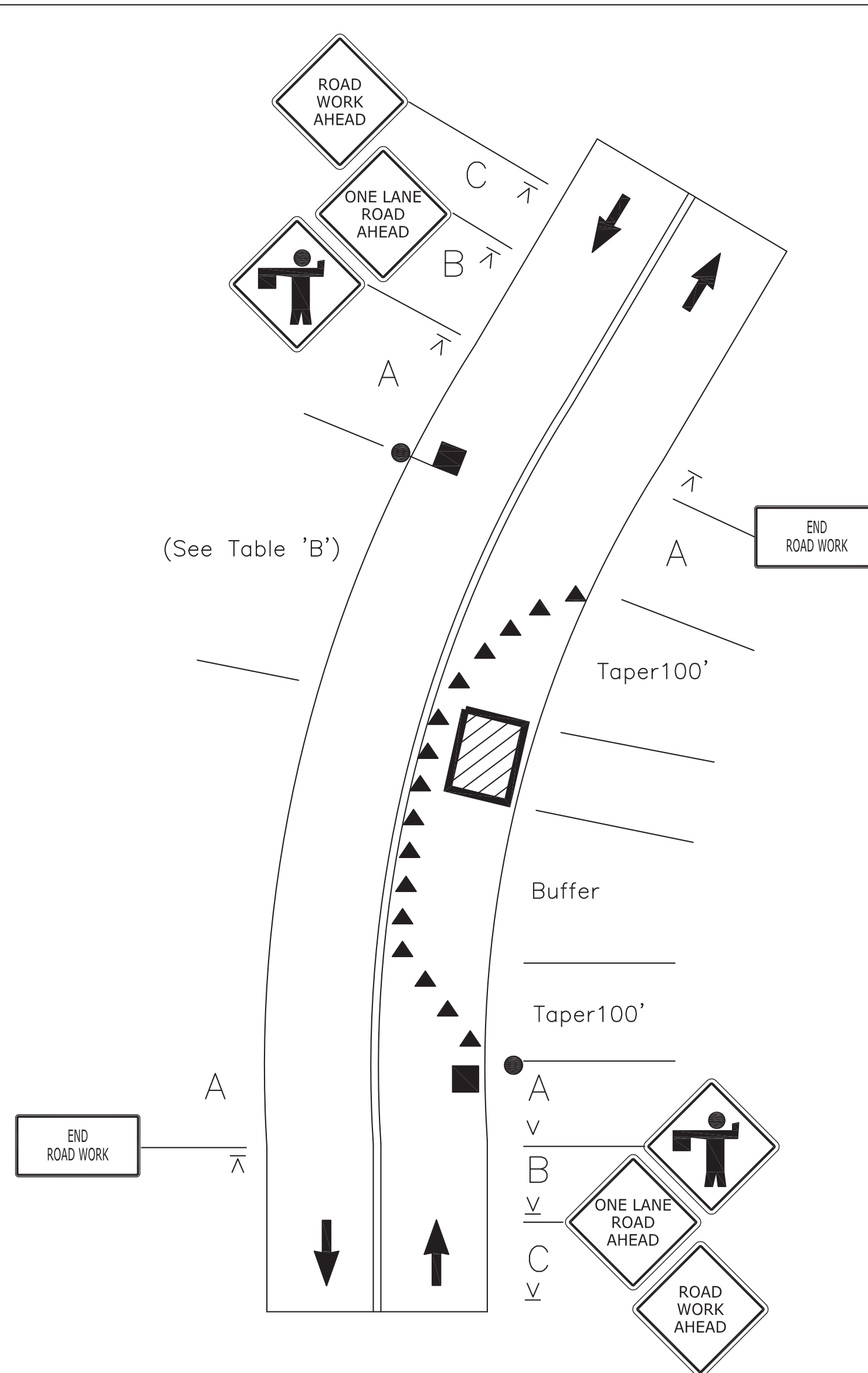
SPEED LIMIT (MPH)	SIGN SPACING A (FT)	SIGN SPACING B (FT)	SIGN SPACING C (FT)	BUFFER (FT)
25	100	100	100	160
30	100	100	100	200
35	350	350	350	280
40	350	350	350	320
45	500	500	500	360
50	500	500	500	440
55	500	500	500	520
60	1000	1600	2640	600

SPEED LIMIT (MPH)	MUTCD based buffer length (FT)	INDOT Skips Based Buffer Length (FT)	Number of Skips
20	115	120	3
25	155	160	4
30	200	200	5
35	250	280	7
40	305	320	8
45	360	360	9
50	425	440	11
55	495	520	13
60	570	600	15
65	645	680	17
70	730	760	19

NOTES:

1. THE FLAGGER OR FLAGGERS SHALL USE APPROVED FLAGGING PROCEDURES ACCORDING TO THE MUTCD. SEE FLAGGING PROCEDURES.
2. IF THERE IS A SIDE ROAD INTERSECTION WITHIN THE WORK AREA, ADDITIONAL TRAFFIC CONTROL, SUCH AS FLAGGERS AND APPROPRIATE SIGNAGE, MAY BE NEEDED ON THE SIDE ROAD APPROACHES.

LANE CLOSURE ON A TWO LANE ROAD
TWO FLAGGER OPERATION
(NOT TO SCALE)



NOTE:

ALL MAINTENANCE OF TRAFFIC DEVICES AND SIGNAGE AND THEIR LOCATIONS, SHALL MEET THE REQUIREMENTS OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS LATEST EDITION.

LEGEND

CONSTRUCTION AREA WITH LANE CLOSURES

TRAFFIC CONTROL PLAN

(NOT TO SCALE)

24" x 24"

STOP

To Stop Traffic

24" x 24"

SLOW

Traffic Proceed

SLOW

To Alert And Slow Traffic

Properly Trained Flaggers

- give clear messages to drivers as shown
- allow time and distance for drivers to react
- coordinate with other flaggers

Properly Equipped Flaggers

- approved sign paddles
- paddles are not to be used in a signalized intersection
- approved Personal Protective Garments (PPG)
- brightly colored hat for better visibility
- retroreflective night equipment

Proper Flagging Stations

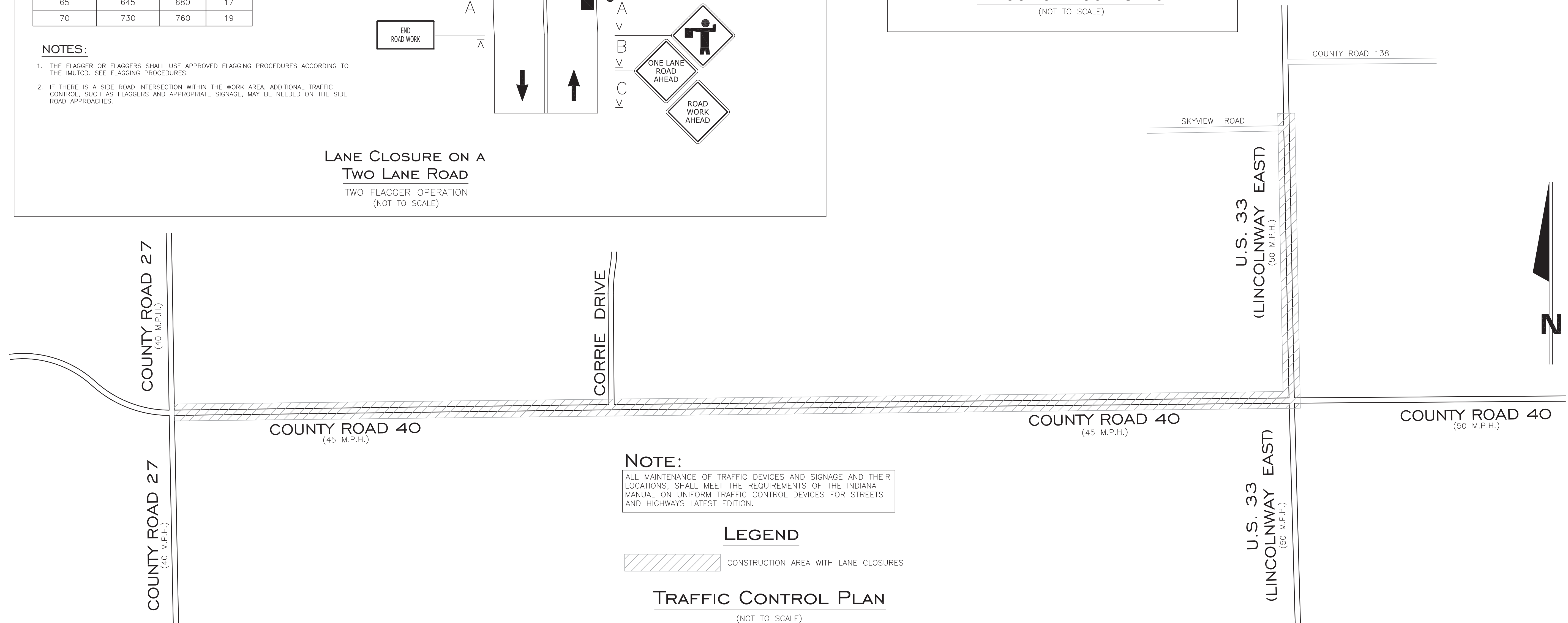
- good approach sight distance
- highly visible to traffic
- never stand in moving traffic lane
- always have an escape route

Proper Advance Warning Signs

- always use warning signs
- allow reaction distance from signs
- remove signs if not flagging

(FLAGS SHOULD ONLY BE USED IN EMERGENCY SITUATIONS OR WHEN A PADDLE WOULD PRESENT A CONFLICTING MESSAGE TO THE MOTORIST. FLAGS SHALL BE A MINIMUM OF 24"x24", RED IN COLOR AND MOUNTED ON A STAFF ABOUT 3' LONG.)

FLAGGING PROCEDURES
(NOT TO SCALE)



REVISED PER CITY OF GOSHEN REVIEW COMMENTS	6-2-17	REZ
REVISED PER INDOT REVIEW COMMENTS	5-3-17	REZ
REVISED PER REVIEW COMMENTS	3-14-17	REZ
REVIEW SUBMITTAL	12-16-16	REZ
REVISED PER PRELIMINARY REVIEW	11-23-16	REZ
DESCRIPTION	DATE	BY

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TERRITORIAL ENGINEERING, LLC
WALKERTON - INDIANA

JPR JONES PETRIE RAFINSKI
your one single source

Elkhart, Indiana P: 574.293.7762
South Bend, Indiana P: 574.332.1888
Fort Wayne, Indiana P: 260.422.2322

Chirag Patel
REGISTERED PROFESSIONAL ENGINEER
NO. 111200182
STATE OF INDIANA

6/2/2017

COUNTY ROAD 40 / U.S. HIGHWAY 33
WATER UTILITY EXTENSION
CITY OF GOSHEN

204 E. JEFFERSON GOSHEN, IN

DESIGNED BY: CHIRAG PATEL
DRAWN BY: REZ
DATE: DECEMBER 2016
JOB NUMBER: 2017-0012
SCALE: 1"=40'

30