



Introduction



- **Comparison “ODOT Let” to a “State Exchange”**
 - Plan development
 - Plan review
 - Utilities
 - Environmental
 - ROW
 - Bidding
 - Construction engineering
 - Final inspection



Introduction



- **Staddens 1.35 CEAO FY 18**
 - ODOT Let

- **York 0.40 CEAO FY 19**
 - Originally was ODOT Let
 - First project that used the State Exchange Program



Staddens 1.35



**16' rise x 34' clear span x 65'
length
5' cover**



Staddens 1.35





York 0.40



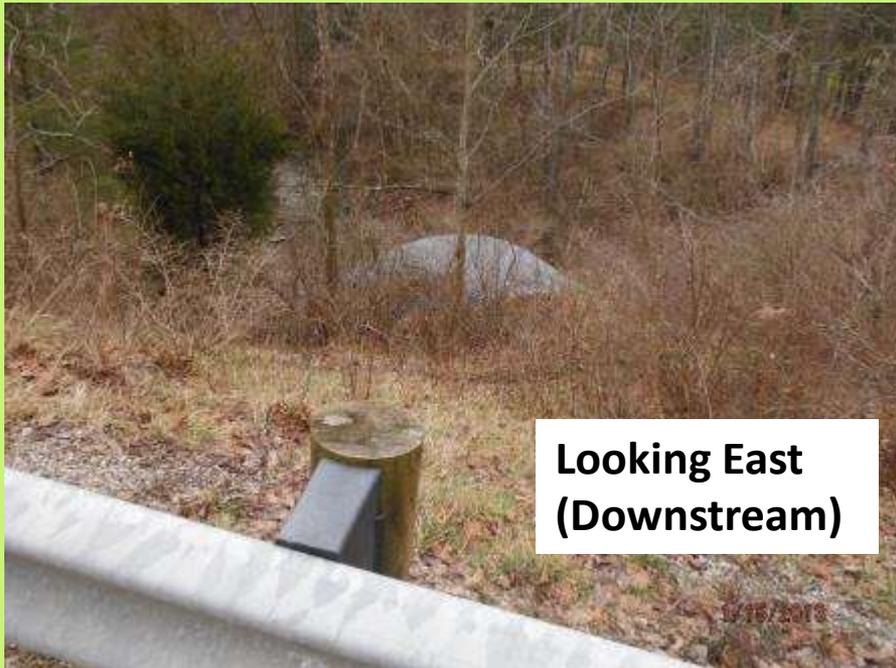
**18' rise x 28' clear span x
150' length
15' max cover**



York 0.40



York Rd – Saint Albans Twp before April 3, 2014





York 0.40



York Rd – Saint Albans Twp after April 3, 2014





York 0.40



York Rd – Saint Albans Twp after April 3, 2014





York Road CR 39 0.40



- **Before 4/3/2014**

- This was an ODOT Let Project using CEAO FY 19
- Consultant Selection was underway and we had approval that the funding would be available before FY19

- **The night of 4/3/2014**

- The multi plate arch collapsed

- **On 4/8/2015**

- District 5 meeting
- Project was converted to State Exchange
- Emergency resolution



Plan Development



- **ODOT Let**

- County, ODOT, and consultants
- PDP process is followed
 - 4 plan submittals
- Limited concurrent tasks
- CO letting schedule

- **State Exchange**

- County and consultants
- 2 plan submittals with phone calls or emails as needed
- County advertises and signs construction contract



Plan Review



- **ODOT Let**

- Reviews at each stage by county, district, and/or C.O.
- Usually 30 days for each stage

- **State Exchange**

- County review only
- Review times are up to the local
- Review of final plans was concurrent with advertising of the construction project



Utilities



- **ODOT Let verses State Exchange**
 - No difference, locals have to get utilities relocated for ODOT Let and State Exchange projects
 - For ODOT let we send all utilities correspondence to ODOT for their records



Environmental



- **ODOT Let**
 - District 5 and consultant to complete the required submissions

- **State Exchange**
 - District 5 and county
 - ✦ SHPO letter
 - ✦ USACE permit
 - ✦ No category 2/3 wetlands
 - ✦ Endangered species signoff as part of the USACE permit



ROW



● **ODOT Let**

- 3 parcels
- Total of .1 acres
- Consulting fees \$11,991
- Payment to landowners \$900 (valued \$120 total)
- Total cost \$12,891
- Cost per acre \$128,910
- 7% of cost went to landowners

● **State Exchange**

- 3 parcels
- Total of .315 acres
- Consulting fees \$2,250
- Payment to landowners \$2,520
- Total cost \$4,770
- Cost per acre \$15,143
- 53% of cost went to landowners

CURVE DATA

P.I. Sta. 13+97.98

$\Delta = 6^{\circ}34'48''$ (LT)

$D_c = 2^{\circ}15'00''$

$R = 2,546.48'$

$T = 146.38'$

$L = 292.44'$

$E = 4.20'$

$C = 292.28'$

C.B. = $N 14^{\circ}47'09'' W$

AGRICULTURAL

①

ARVILLE K. & RACHEL A.
FELUMEE, TRS.
081 STADDENS BRIDGE RD
NEWARK, OH 43056
I.N. 200612280037127
481-5917400000

LICKING COUNTY
MADISON TOWNSHIP, LOT 4
USML T-2, R-11, QTR. TWP. 4

ONE

BEGIN PROJECT
STA. 13+25.00

BEGIN ACQUISITION
STA. 13+60

END PROJECT
STA. 15+00.00

END ACQUISITION
STA. 14+50

FIELD LINE

EX. CMP ARCH CULVERT
(TO BE REMOVED)

CONST. LIMITS

Ex R/W

Ex R/W

CONST. LIMITS

$1^{\circ}29'45'' W$

13+02.08

13+97.82
4.20' RT

14+58.67
0.17' RT

$N18^{\circ}38'16'' W$

STADDENS BRIDGE RD (CR-315)

CONST. LIMITS

EX R/W
EX-12" CMP TO
BE REPLACED

Ex R/W

Ex R/W

Ex R/W

PROP. PRECAST CONCRETE
ARCH TOPPED CULVERT

LINE

ASPHALT
TYPE 1
DRIVEWAY

TMR

SAVE

EX. GAS LINE TO BE
RELOCATED BY OWNER

IP Fnd & Used
(Sta. 14+63.22, 29.5)

AGRICULTURAL

②

GHLEE A. LYONS
12363 STADDENS BRIDGE ROAD
NEWARK, OH 43056
O.R. 168 PG. 792
0481-6000800001

GRAVEL DRIVE

FUEL STORAGE
TANK

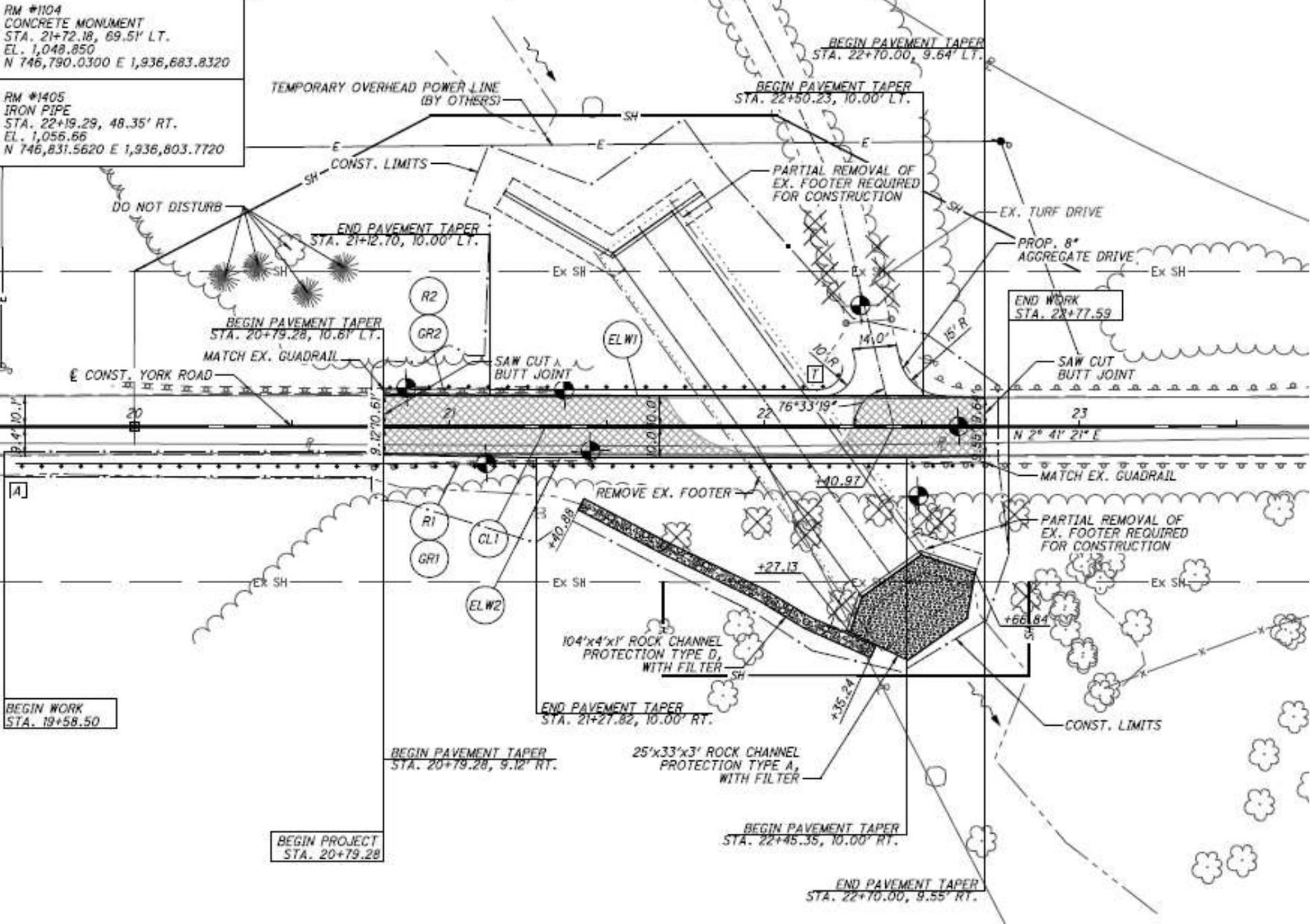
CLAYLICK

$N65^{\circ}06'38'' E$

NOTE: TH
WE
AD
MO

RM #1104
CONCRETE MONUMENT
STA. 21+72.18, 69.51' LT.
EL. 1,048.850
N 746,790.0300 E 1,936,683.8320

RM #1405
IRON PIPE
STA. 22+19.29, 48.35' RT.
EL. 1,056.66
N 746,831.5620 E 1,936,803.7720



BEGIN WORK
STA. 19+58.50

END WORK
STA. 22+77.59

BEGIN PROJECT
STA. 20+79.28

END PAVEMENT TAPER
STA. 22+70.00, 9.55' RT.



Bidding



- **ODOT Let**
 - Final plans completed on 3/3/2014
 - Bid opening 6/26/2014

- **State Exchange**
 - Final plans completed on 8/6/2014
 - Bid opening 8/21/2014

- Addendums and change orders are acceptable to the county



Bidding



- **ODOT Let**
 - State estimate \$370,000
 - ✦ \$408,846 low bid
 - ✦ \$413,112 second bid

- **State Exchange**
 - Engineers estimate \$864,744
 - ✦ \$618,951 low bid
 - ✦ \$622,862 second bid



Construction Engineer



- **ODOT Let**

- Construction Engineering is performed by ODOT
- Staddens project cost was \$46,000
- County perform site visits during construction

- **State Exchange**

- Construction Engineering by County
- County hired a consultant to perform sub-base compaction testing
- Consultant costs \$4000



Final Inspection



- **ODOT Let**
 - ODOT coordinates punch list with the contractor
 - Final walk through with the county to accept the bridge
- **State Exchange**
 - County coordinates punch list with the contractor
 - Final walk through with ODOT to sign off on the project



Schedule Comparison



• ODOT Let

- 5/7/13 Design scope finalized
- 8/29/13 Stage 1 plans
- 8/29/13 ROW plans complete
- 2/14/14 Eco complete
- 5/20/14 ROW acquisition complete
- 3/3/14 Final plans received
- 5/12/14 Plan package CO
- 6/12/14 Project advertised
- 6/26/14 Open bids
- 7/2/14 Award
- 7/30/14 Contract signed

• State Exchange

- 4/3/14 Culvert Failed
- 4/21/14 Design scope finalized
- 7/2/14 ROW plans complete
- 7/10/14 Stage 1 plans
- 7/12/14 Three landowner notified
- 8/6/14 Final plans received
- 8/6/14 Project advertised
- 8/21/14 Open bids
- 8/26/14 Award and contract signed
- 8/27/14 Pre-con meeting



Summary



- **ODOT Let**

- Number of days from design scope to signed construction contract
 - 449
- Number of days from ROW plans to complete ROW acquisition
 - 264

- **State exchange**

- Number of days from design scope to signed construction contract
 - 127
- Number of days from ROW plans to complete ROW acquisition
 - 41



Summary



- **State Exchange**
 - Expedite projects
 - Majority of our structures are 4 sided boxes or composite box beam bridges
 - ROW acquisition using ORC instead of CFR
 - No differences when it relates to utilities
 - Environmental is simplified
 - Bidding time can be reduced
 - If you have the capabilities to do construction engineering at the county level there is a reduction in project cost



Questions



- Michael Bline, P.E.
- Licking County Bridge Engineer
- mbline@lcounty.com
- 740-670-5284

- <http://www.ceao.org/aws/CEAO/pt/sp/cstpprograms>