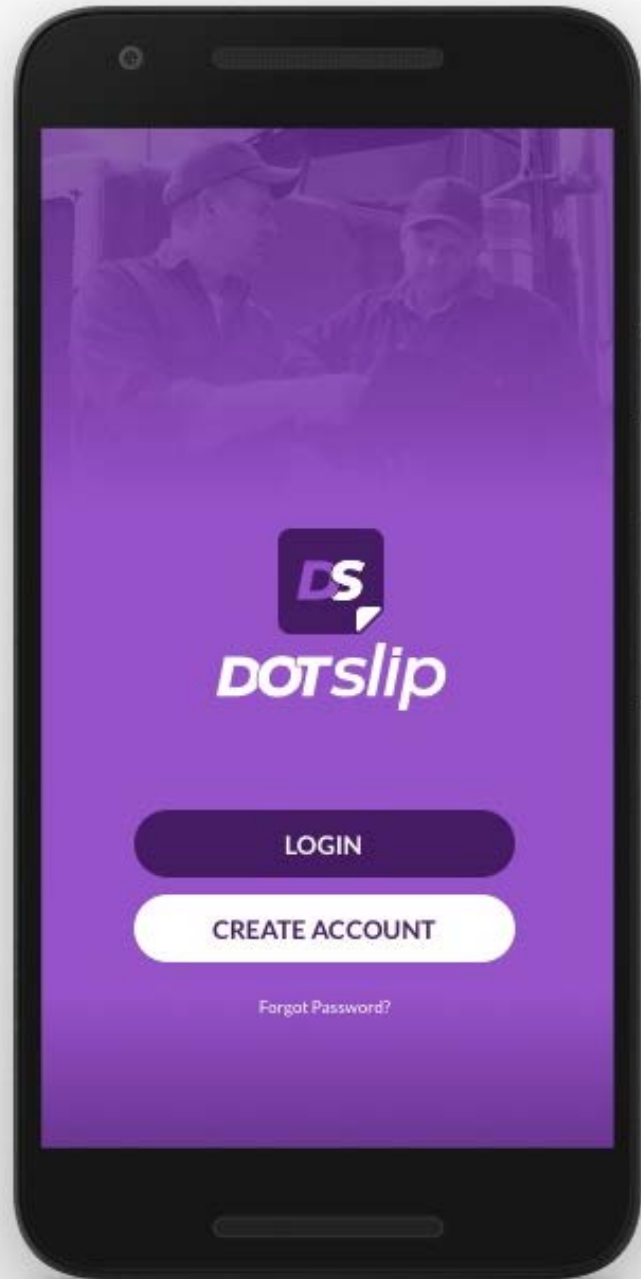


e-Ticketing and Unifier

By: Billy Sweeney

And Mark Buckalew



e-Ticketing: FHWA EDC-6 Initiative

Definition:

- A paperless process for tracking, documenting, and archiving materials tickets, accessible in real-time via mobile devices.

Types of e-Tickets:

- Initially, Hot-Mix, Concrete, Borrow, Aggregate.
- Potential later additions, rebar, pipe, drainage inlets, structures, guardrail, signs, etc.

Benefits:

- Enhances project delivery.
- Integration with Unifier.
- Quality of information.
- Archiving the tickets in a digital format.
- Improves accessibility of project data.
- Time savings.
- Improvement in safety.
 - Reduces exposure to vehicular traffic.
 - Less human to human interaction (Covid).

e-Ticketing Process Checklist



Legal and DTI

- Agree to the Terms Of Use and Conditions.
- Agree to the Delaware Cloud Services Terms and Conditions
- Compliant with DeIDOT record retention guidelines.



Material Producers and Suppliers:

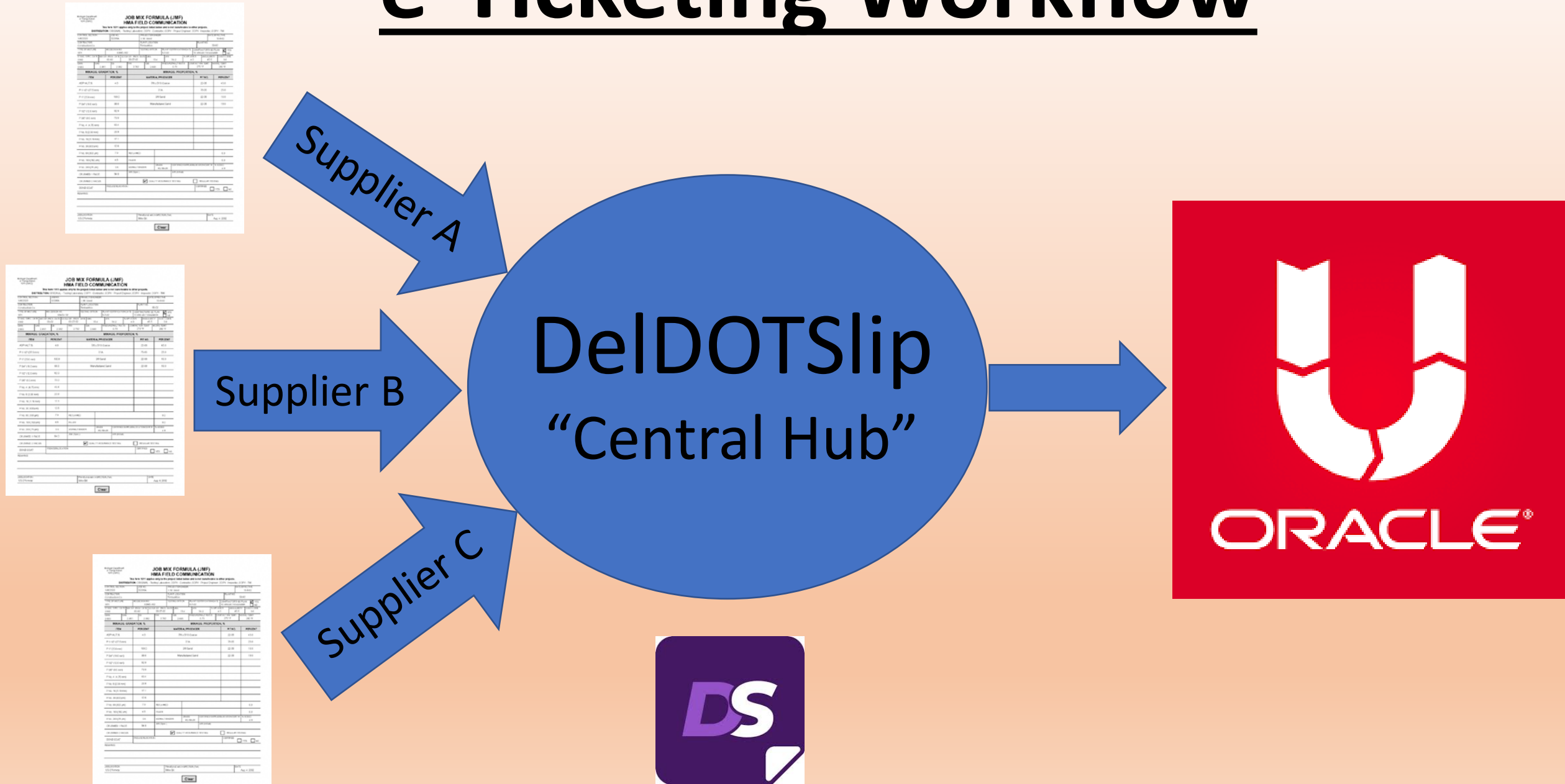
- Address concerns from the private sector.
- Develop an integration program to convert suppliers ticket data.
- Run a pilot and develop a timeline for implementation.

DeIDOT Departmental Integration:

- Integrate tickets produced and sent to the central hub into Unifier.
- Address concerns from Support Sections and Maintenance to integrate their processes.
- Train staff and consultants with the new process.
- Update the Standard Specifications.



e-Ticketing Workflow



Project View Inside DOTslip

Assigned Projects

Show Archived

Sort: Last Updated (Oldest-Newest)

DeIDOT TESTING PROJECT 01

Under Construction

1

CONTRACT ID	PROJECT START	PROJECT ID	VENDOR	LAST TICKETED	DAYS WORKED
WS210204	10/6/2020	WS210204	Granite Construction Company - Pacific Northwest	2/27/2021, 9:56 AM	2

MATERIAL BREAKDOWN

MATERIAL BREAKDOWN	DELIVERED
2581 - 3/4" CSTC	0.00 Tons
2407 - PITRUN - DREDGED	0.00 Tons
2956 - INCOMING CLEANFILL-BACKHAUL-CY	0.00 Tons

[View More](#)

TOTAL TICKETS	DELIVERED	PENDING	REJECTED
4	0.00 Tons	52.88 Tons	0.00 Tons

[View Project](#)

DeIDOT LIVE TICKET TESTING

Under Construction

11

CONTRACT ID	PROJECT START	PROJECT ID	VENDOR	LAST TICKETED	DAYS WORKED
51735597	3/1/2021	51735597	HaulHub DOTslip	3/2/2021, 10:55 AM	2

MATERIAL BREAKDOWN

MATERIAL BREAKDOWN	DELIVERED
92083823 - 5 97-X	79.78 Tons
42289093 - 4 86-W	43.74 Tons
52308423 - 2 64-U	20.14 Tons

[View More](#)

TOTAL TICKETS	DELIVERED	PENDING	REJECTED
1442	169.97 Tons	33,377.63 Tons	58.48 Tons

[View Project](#)

Contract Number/Project Name

Item Number/Item Description

Ticket Access/Staff Information

Daily ticket tonnage

Project Ticket Page/Individual Ticket Information

DeIDOT TESTING PROJECT 01

Under Construction

1

CONTRACT ID	PROJECT START	PROJECT ID	VENDOR	LAST TICKETED	DAYS WORKED
WS210204	10/6/2020	WS210204	Granite Construction Company - Pacific Northwest	2/27/2021, 9:56 AM	2

MATERIAL BREAKDOWN	DELIVERED
2581 - 3/4" CSTC	0.00 Tons
2407 - PITRUN - DREDGED	0.00 Tons
2956 - INCOMING CLEANFILL-BACKHAUL-CY	0.00 Tons

TOTAL TICKETS	DELIVERED	PENDING	REJECTED
4	0.00 Tons	52.88 Tons	0.00 Tons

Export

Select All Records

Ticket	Date	Contractor	Supplier	Material	Quantity	Status
<input type="checkbox"/> 260426	2/27/2021, 9:56 AM	Granite Constructio...	Granite Construction	1/2"RAP	7.00 Tons	pending
<input type="checkbox"/> 260234	2/24/2021, 2:41 PM	Granite Constructio...	Granite Construction	PITRUN - DREDGED	16.83 Tons	pending
<input type="checkbox"/> 260207	2/24/2021, 10:58 AM	Granite Constructio...	Granite Construction	INCOMING CLEANF...	12.00 Tons	pending
<input type="checkbox"/> 260195	2/24/2021, 10:02 AM	Granite Constructio...	Granite Construction	PITRUN - DREDGED	0.00 Tons	voided
<input type="checkbox"/> 260182	2/24/2021, 8:09 AM	Granite Constructio...	Granite Construction	PITRUN - DREDGED	17.05 Tons	pending

< 1 >

MARK AS DELIVERED

REJECT

Supplier Granite Construction	Supplier Code N/A
Plant SINGER PIT RUN	Supplier Comments --
Contractor Granite Construction Company - Pacific Northwest	Customer Name LANDTEK ENTERPRISES
Contract # N/A	District N/A
Job WS210204-Point Whitehorn	Job # WS210204
Phase N/A	Phase Description N/A

Inspector Tabs

Hauler N/A	Truck LAND3S
Max GVW 30000	

Load Information

Product 2407	Product Description PITRUN - DREDGED
Product Code N/A	Material N/A
Load 2	Daily Total 33.88
Weighmaster JORDOS	Gross 30.73
Tare 13.9	Net 16.83

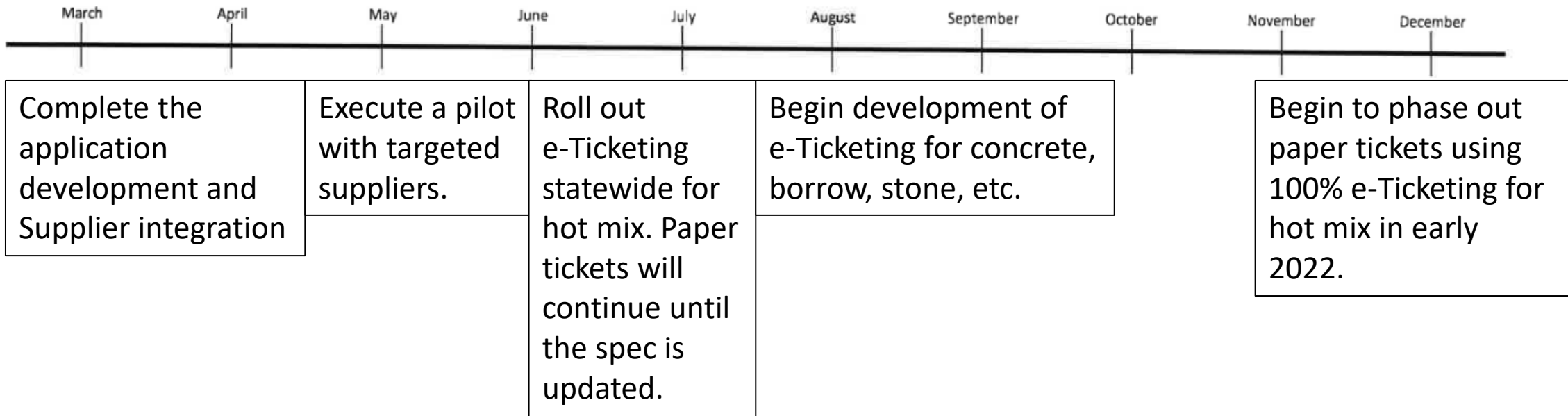
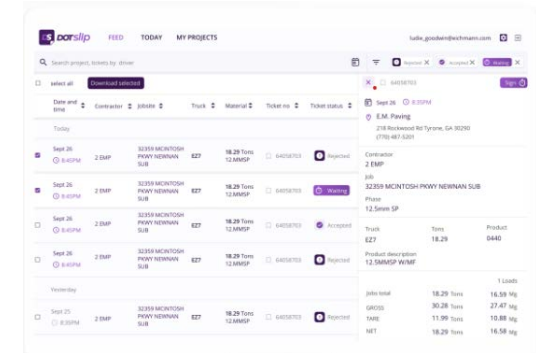
Transportation History

- 02/24/21 2:41 PM PST Ticketed At
- 02/24/21 2:51 PM PST Transit (estimated)
- Delivered
- At Equipment

Plant Temperature N/A
Field Temperature N/A
Temperature Scale F
Waste N/A
Notes N/A

Fillable forms

DelDOT e-Ticketing Timeline for 2021



UNIFIER OVERVIEW

USAGE STATS

GENERAL (SINCE APRIL 2017)

250 PROJECTS

450 USERS (INCL. CONSULT. AND CONTR.)

INSPECTOR DAILY REPORTS

STARTED: APRIL 2017

95,000+ RECORDS

PRICE APPROVALS

STARTED: JULY 2017

1270 RECORDS

UNIFIER OVERVIEW

USAGE STATS

CHANGE ORDERS

STARTED: MAY 2019

830 RECORDS

APPROX \$56MIL

ESTIMATES

STARTED: MAY 2019

670 RECORDS

APPROX \$286MIL

UNIFIER OVERVIEW

PROCESSES IMPLEMENTED

26 TOTAL PROCESSES TO DATE

13 MAIN BPs, 13 SUPPORT BPs

MAIN

PROJECT REQUEST, IDRS, PRICE APPROVALS, CHANGE ORDERS, PENCIL AND PROGRESS ESTIMATES, RFIs, SUBMITTALS, ETC..

SUPPORT

CO REASON CODES, CONTACTS, VENDORS (PROJECT AND MASTER), PAY ITEMS (PROJECT AND MASTER), LOCATIONS, RISKS/ISSUES, ETC...

UNIFIER OVERVIEW

**BPs COMING
SOON**

DESIGN PHASE

**BMP / SWM FACILITY ID REQUEST,
ENVIRONMENTAL PERMIT REQUEST
(M&O), PROJECT FUNDING INCREASE
REQUEST (CONSTR. INCL.), PHASE
CLOSEOUT, VARIOUS BPs AS PART OF P6
MIGRATION, ETC...**

CONSTRUCTION PHASE

**CONSTR. NTP, FCD, SUSPEND/RESUME
TIME, SUBCONTRACTOR APPROVAL,
FORCE ACCOUNT TRACKING, PRECON
MEETING MINUTES, GENERAL
CORRESPONDENCE, SOURCE OF SUPPLY,
SOURCE DOC/BLEUECHECKING, PROJECT
CLOSEOUT, ETC...**

OTHER INTEREST IN UNIFIER

UNIFIER OVERVIEW

OTHER

CIVIL RIGHTS (DBE, ADA)

AUDIT

RIGHT OF WAY

MATERIALS

P6 MIGRATION