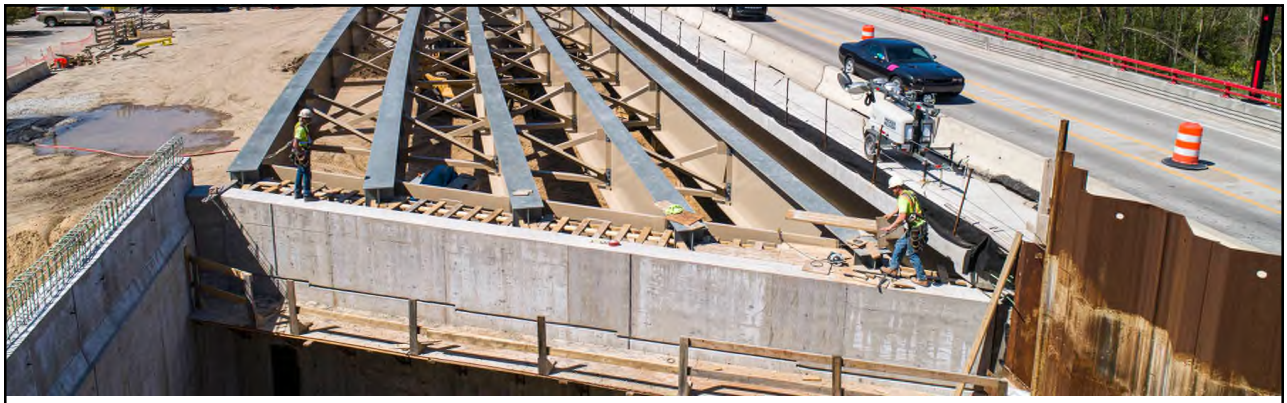
Outline

- BOBS Organization Structure
- Bridge Type and Composition/Terminology
- Asset Management
- Bridge Maintenance
- Bridge Design Process
- **Bridge Plans**
- Road and Bridge Coordination
- Request for Action (RFA) Projects
- Design in Construction
- Accelerated Bridge Construction (ABC)
- Wrap up

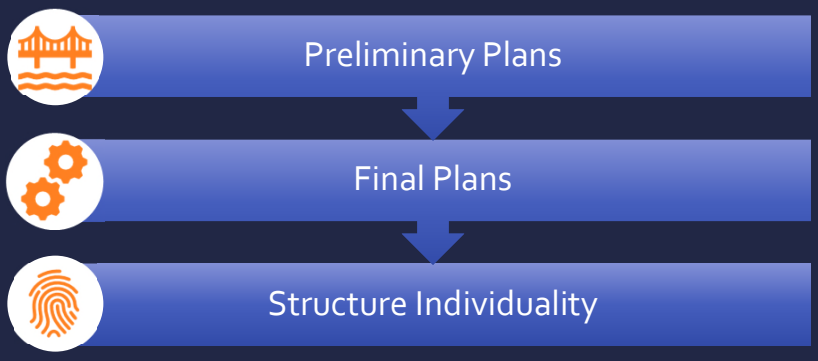
1



BRIDGE PLAN COMPOSITION

2

OBJECTIVES



3

BRIDGE PLANS

NEW AND RECONSTRUCTION PROJECTS

Preliminary Plans

- Title Sheet
- General Plan of Site
- Log of Borings
- General Plan of Structure
- Existing Structure

Final Plans

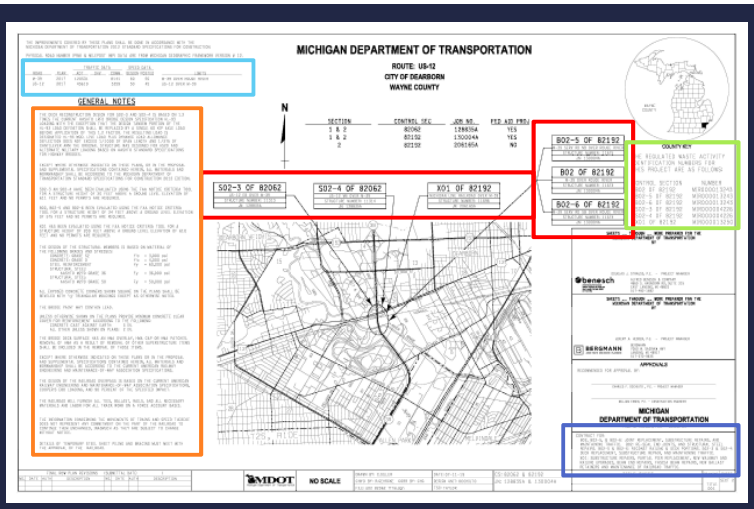
- Piles
- Abutment Details
- Pier Details
- Beams
- Deck
- Slab and Screed
- Expansion Joint Device
- Steel Reinforcement
- Standard Detail

4

PRELIMINARY PLANS

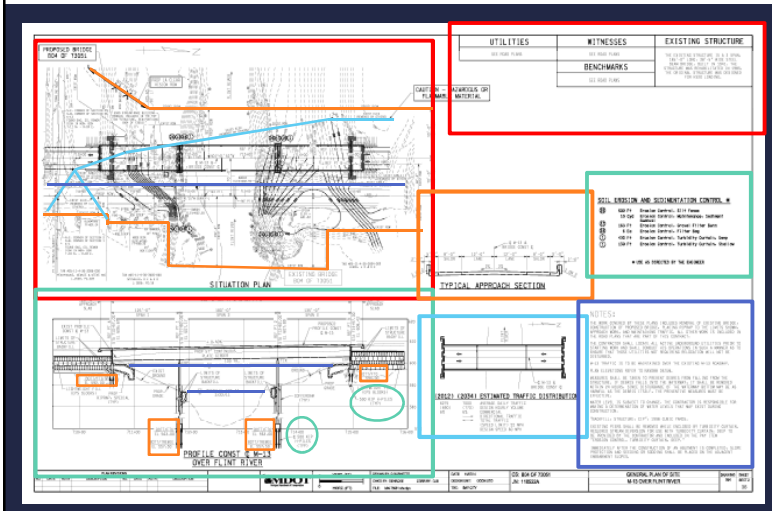
5

TITLE SHEET



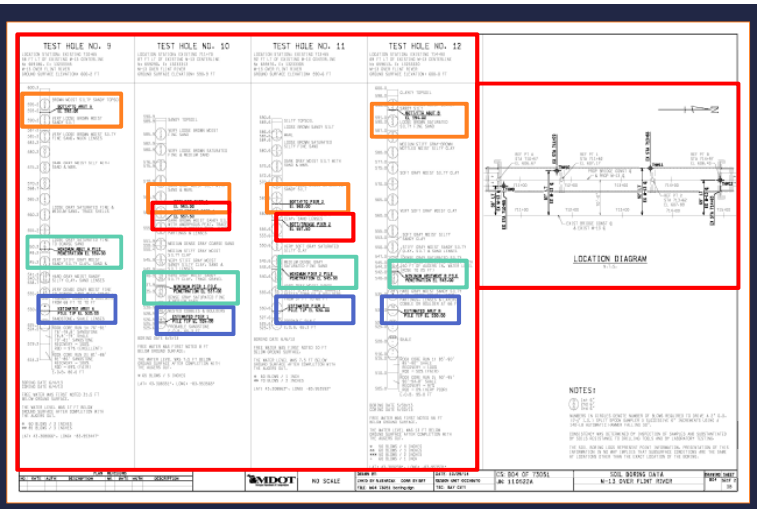
6

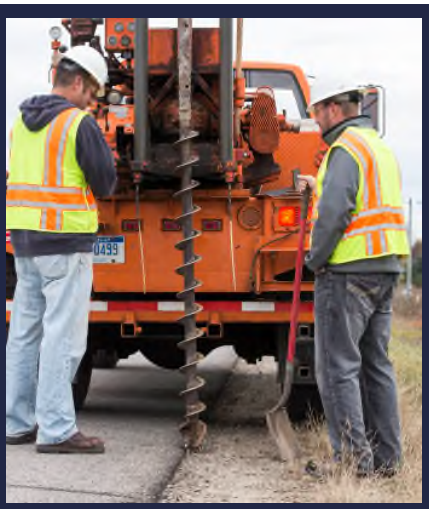
GENERAL PLAN OF SITE



7

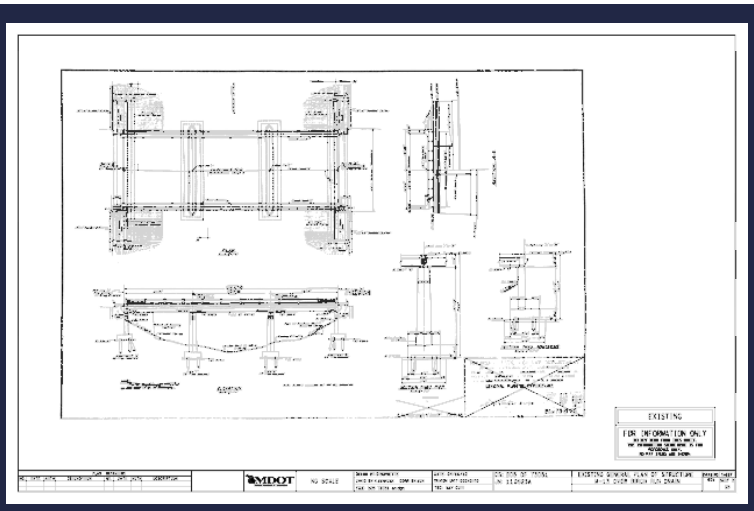
LOG OF BORINGS





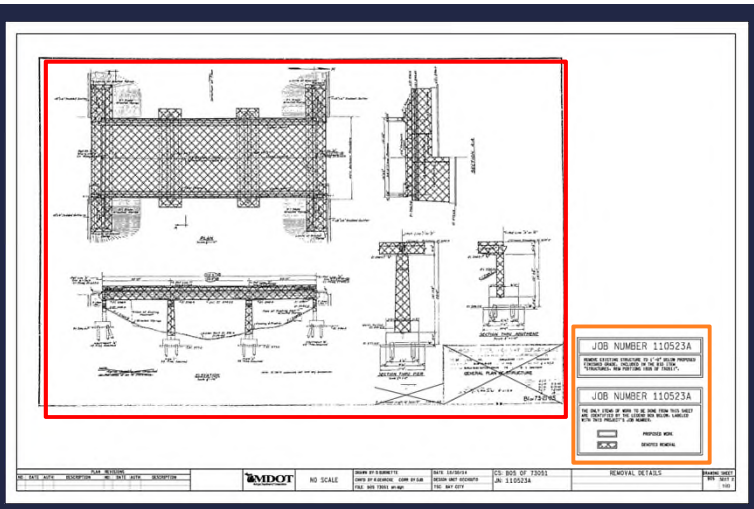
8

EXISTING STRUCTURE SHEETS



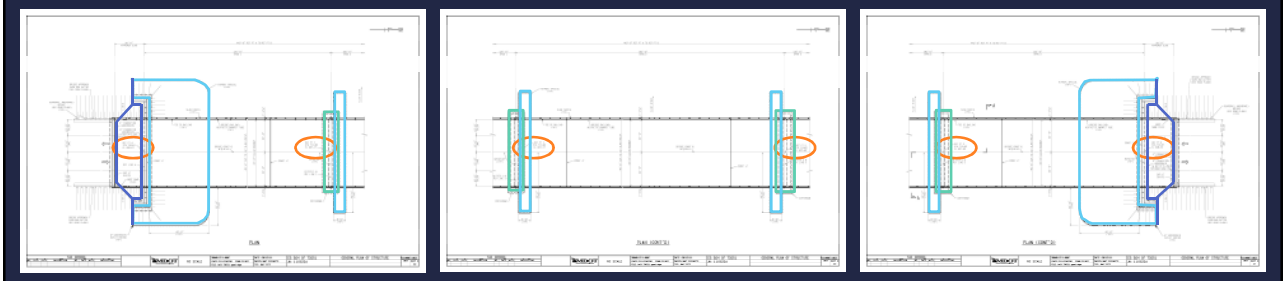
9

REMOVAL SHEETS



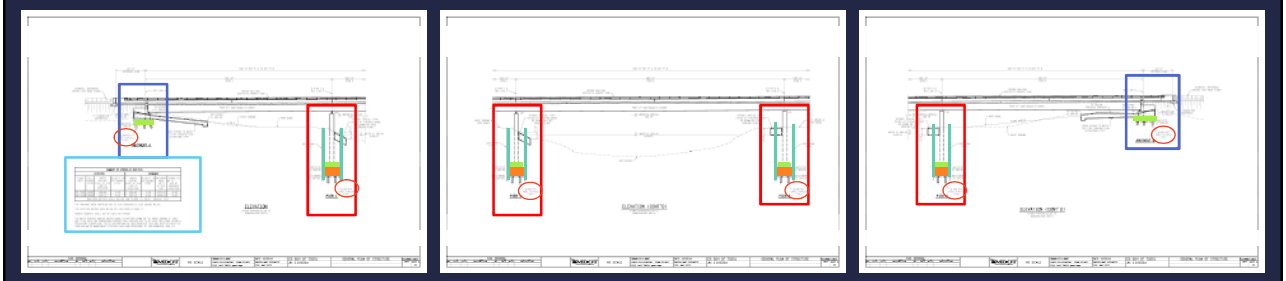
10

GENERAL PLAN OF STRUCTURE



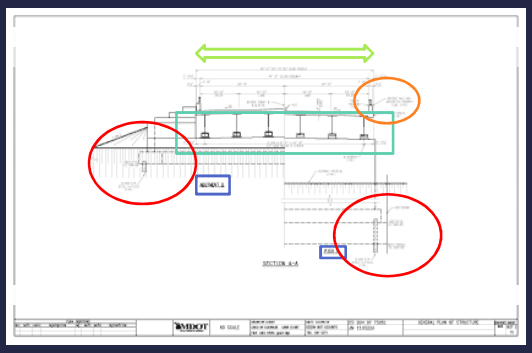
11

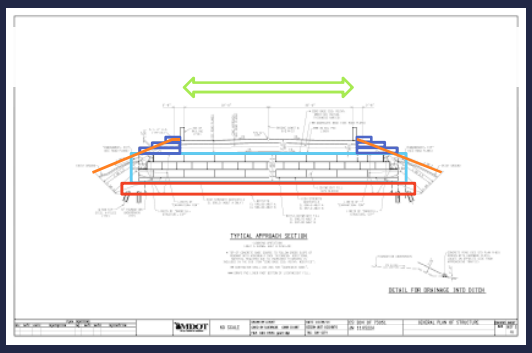
GENERAL PLAN OF STRUCTURE



12

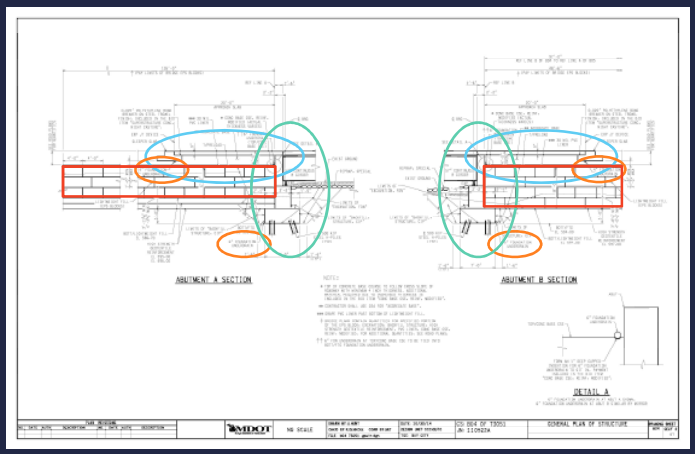
GENERAL PLAN OF STRUCTURE





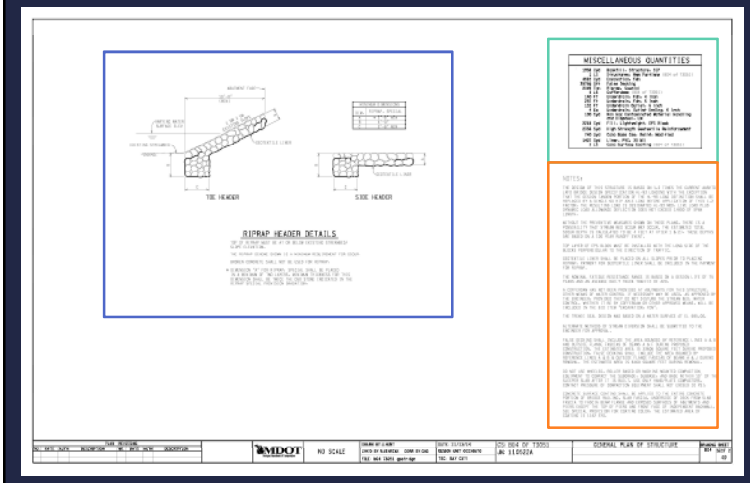
13

GENERAL PLAN OF STRUCTURE



14

GENERAL PLAN OF STRUCTURE



15

#1. Only 25% complete at preliminary plans

#2. Half of their sheets are existing sheets that they put a new title block on…

Come ON!

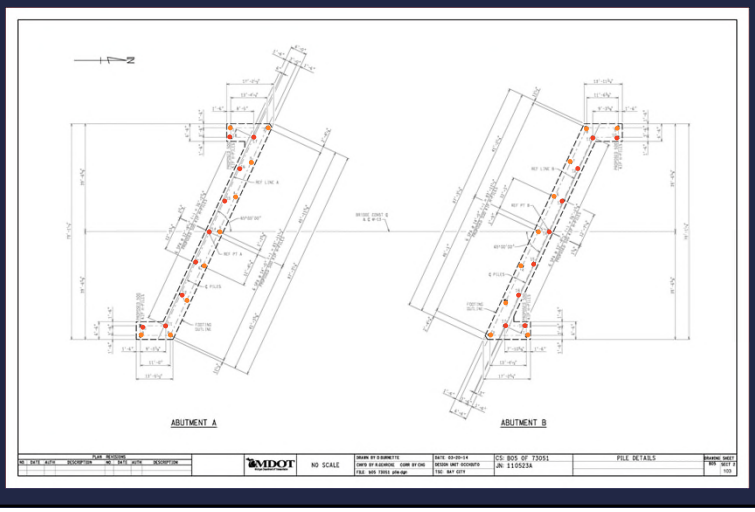
16

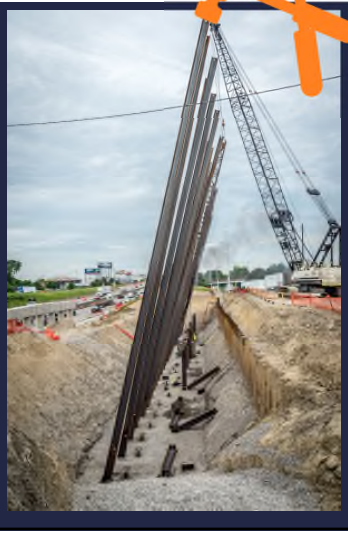
Title Sheet
General Plan of Site
Log [illegible]ure
Expan[illegible]t Device
Steel Reinforcement
Standard Detail

FINAL PLANS

17

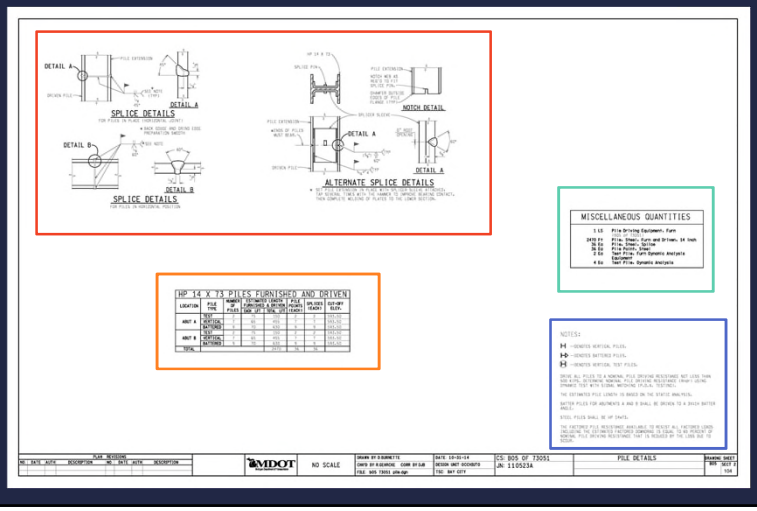
PILES





18

PILES

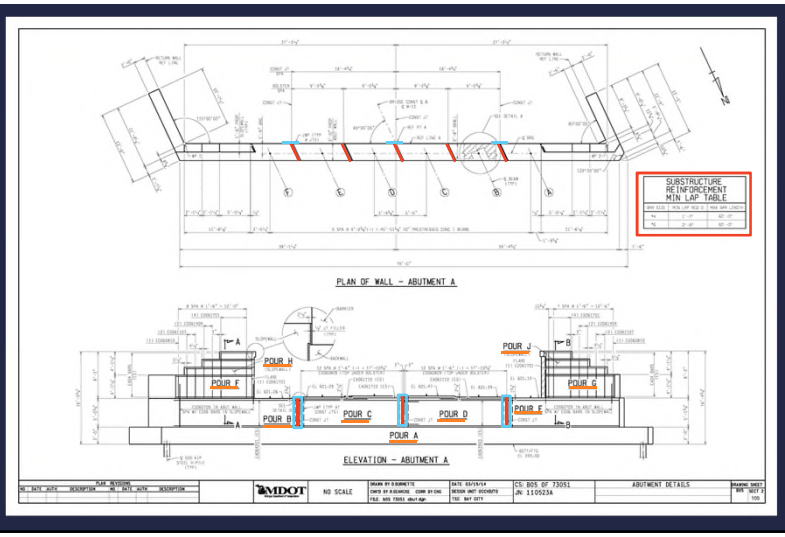


19

ABUTMENT DETAILS

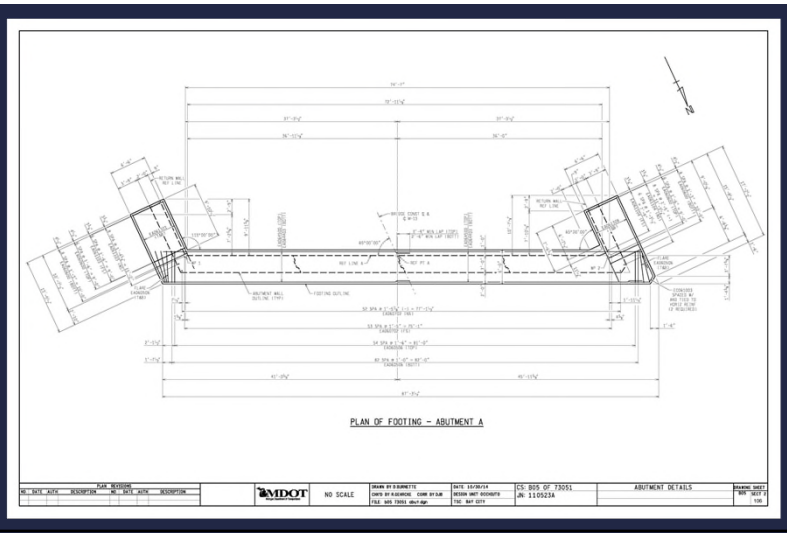
20

ABUTMENT DETAILS



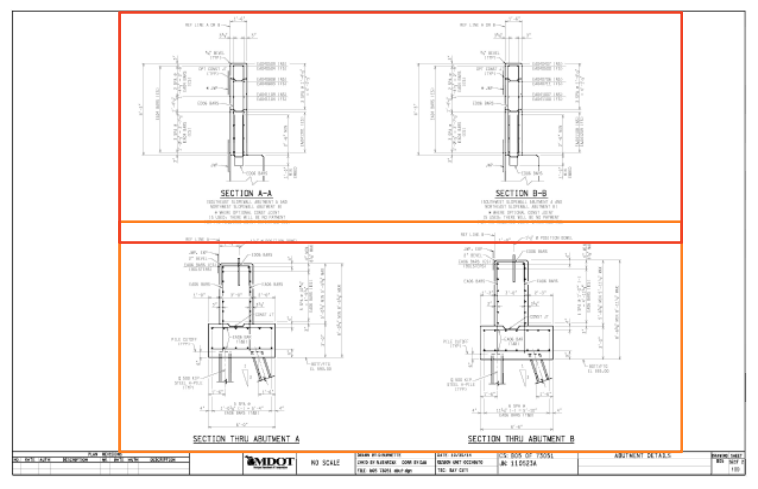
21

ABUTMENT DETAILS



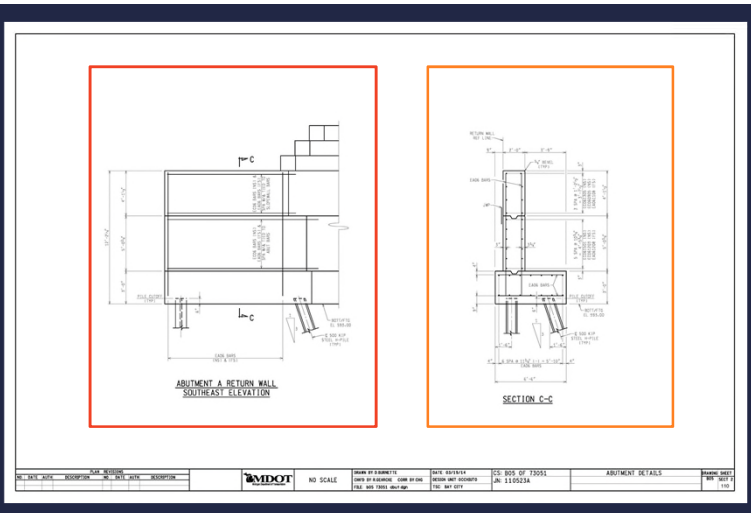
22

ABUTMENT DETAILS



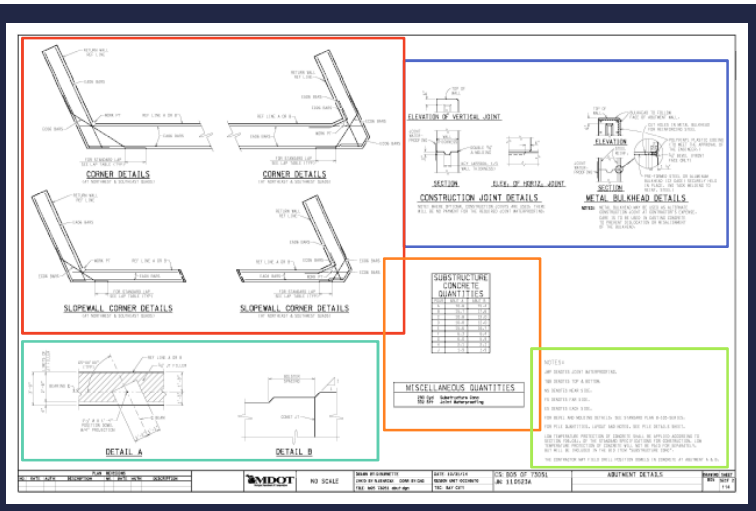
23

ABUTMENT DETAILS



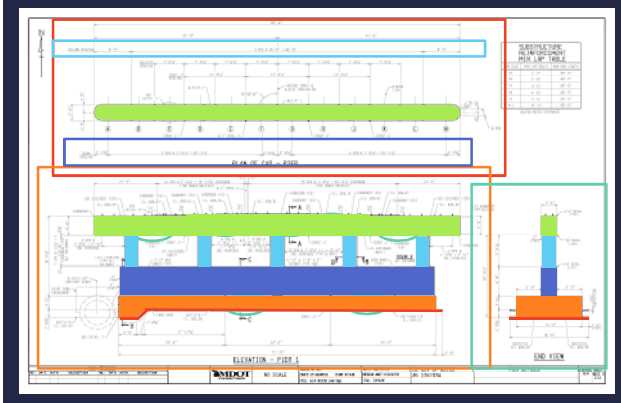
24

ABUTMENT DETAILS



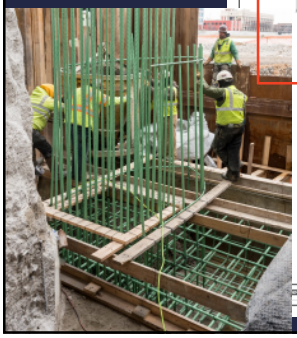
25

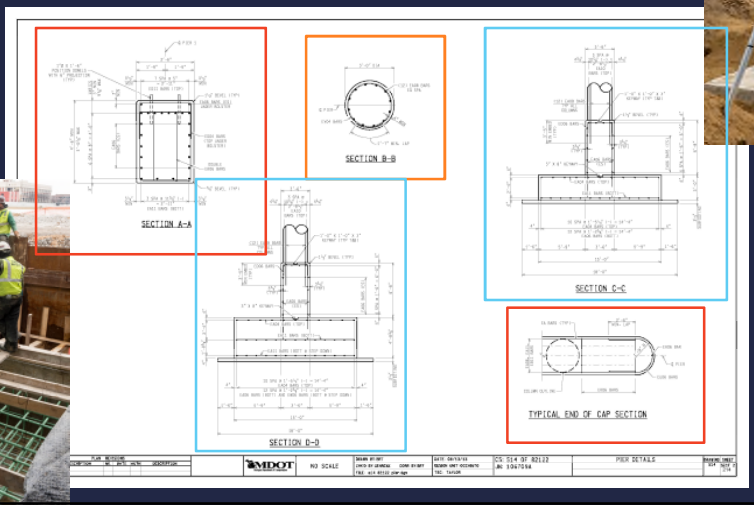
PIER DETAILS



26

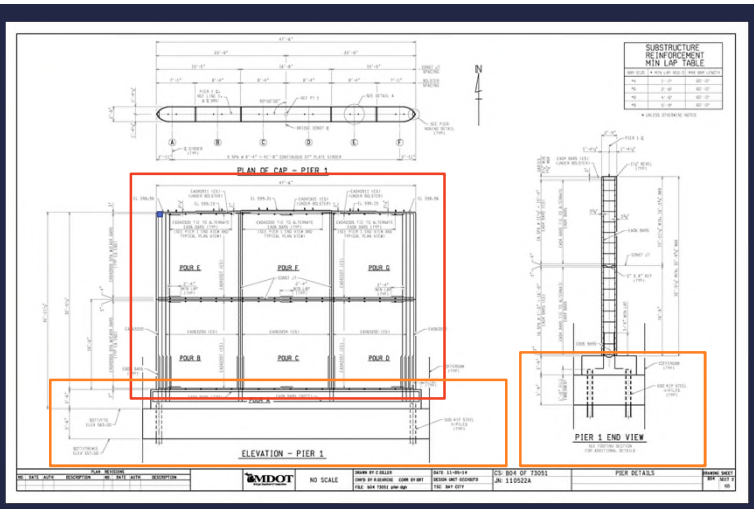
PIER DETAILS





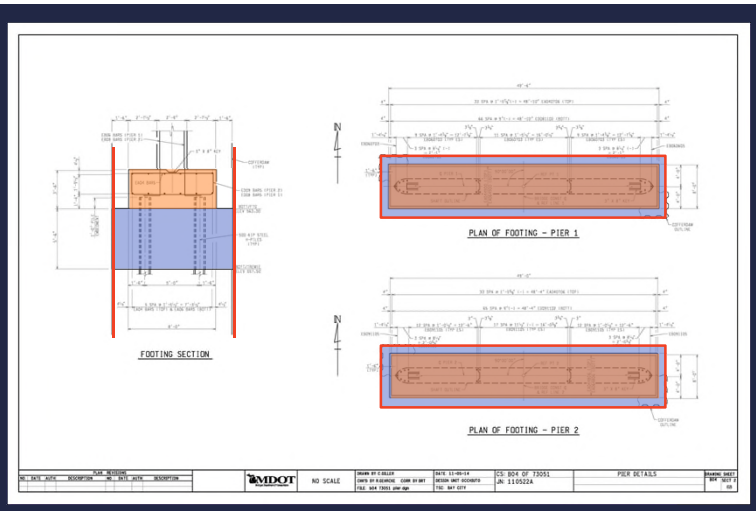
27

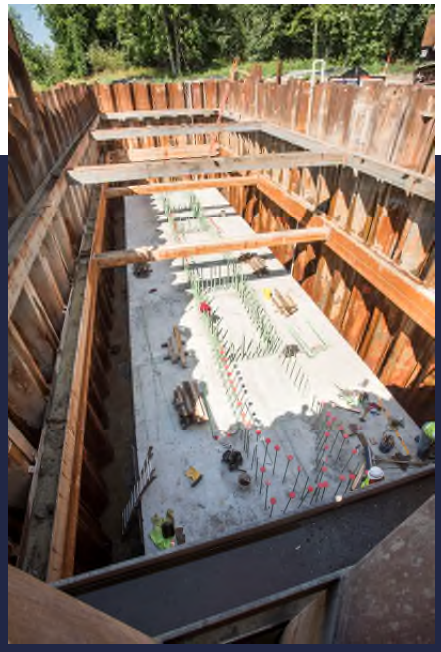
PIER DETAILS



28

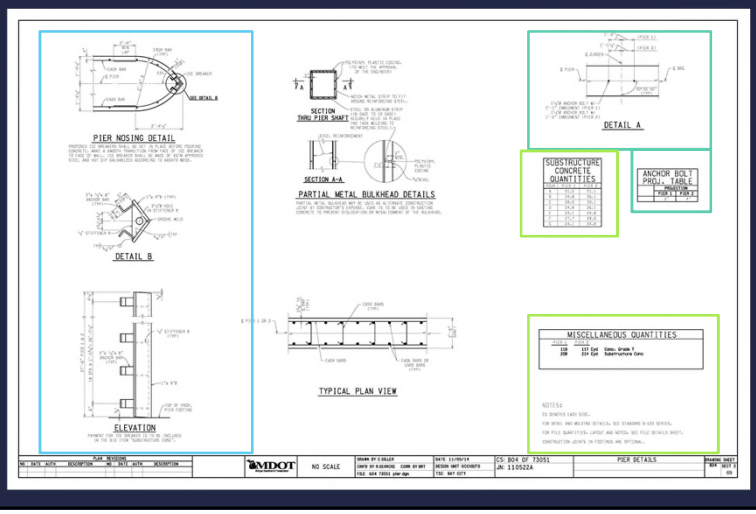
PIER DETAILS





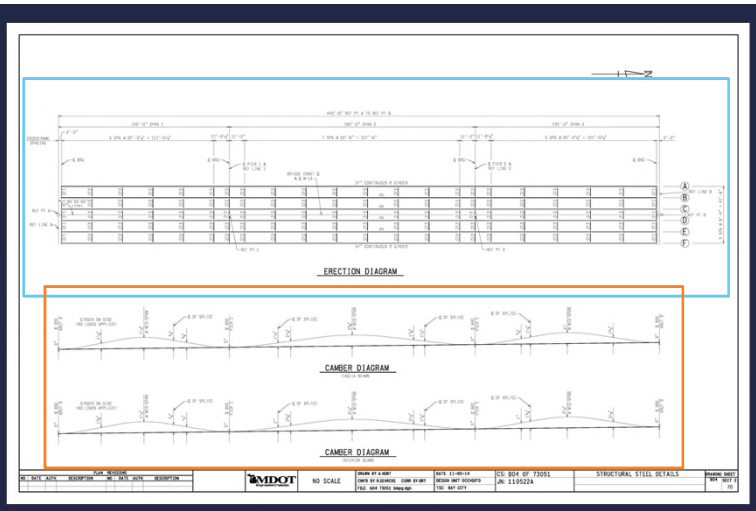
29

PIER DETAILS



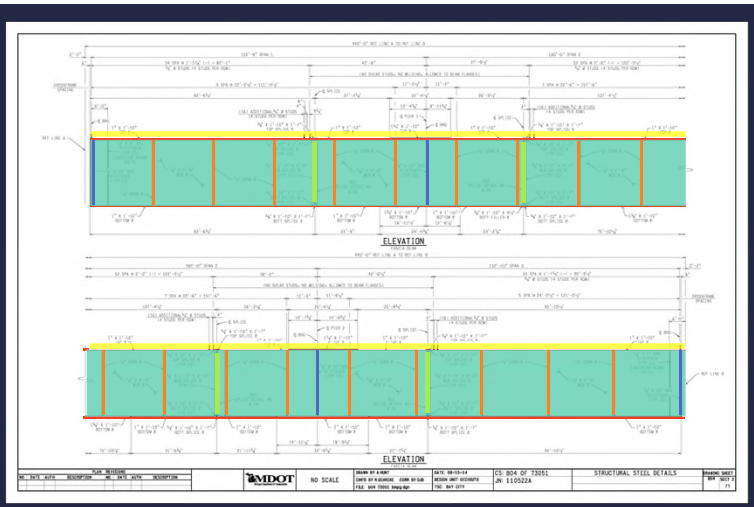
30

STEEL BEAM DETAILS



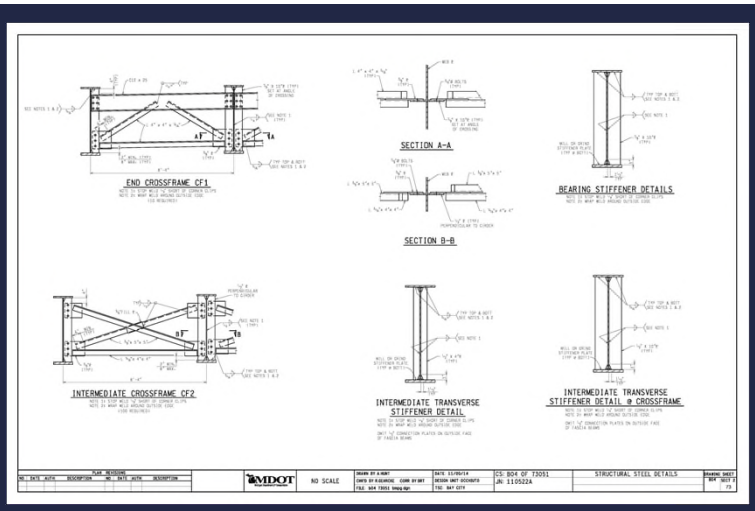
31

STEEL BEAM DETAILS



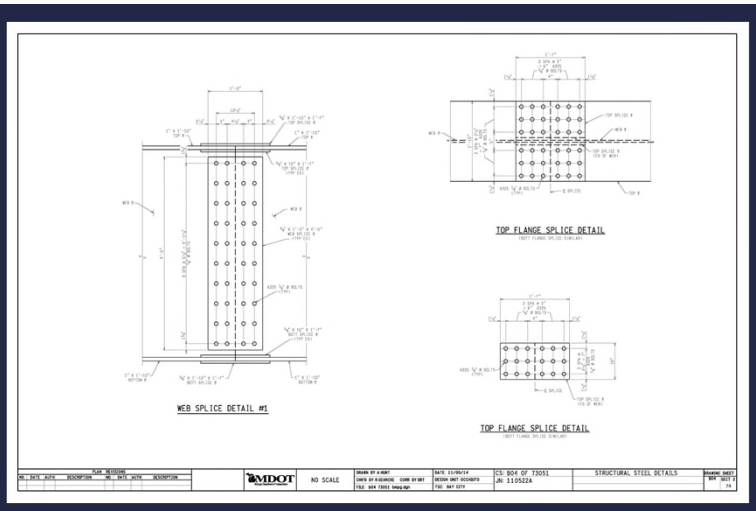
32

STEEL BEAM DETAILS



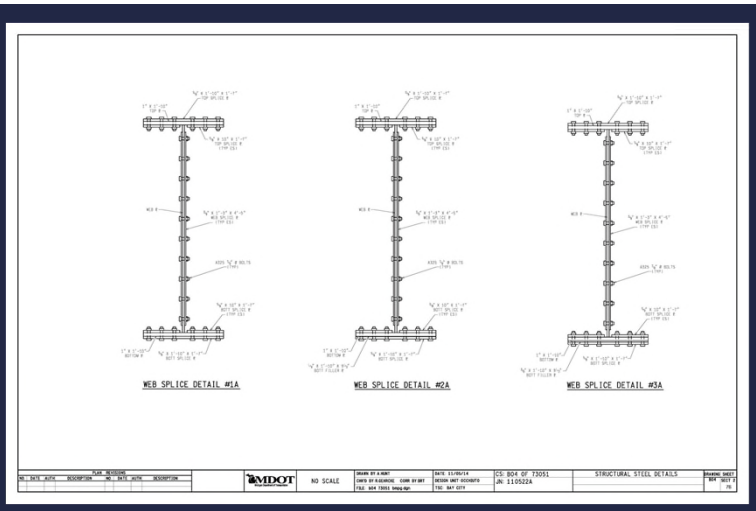
33

STEEL BEAM DETAILS



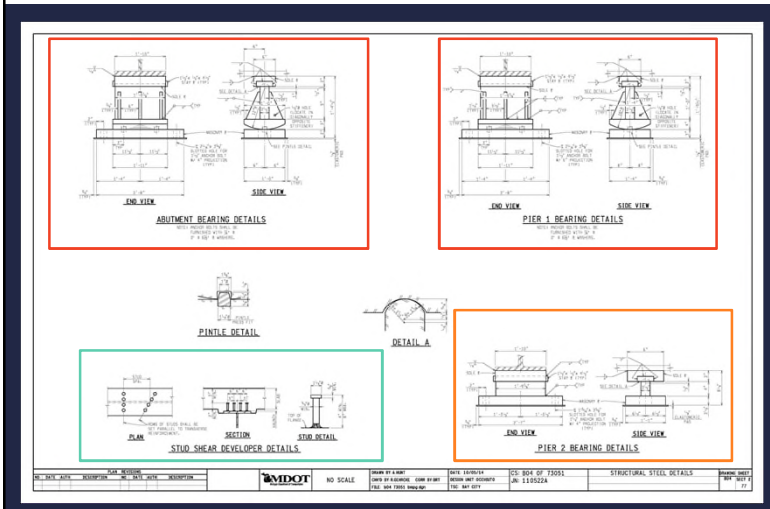
34

STEEL BEAM DETAILS



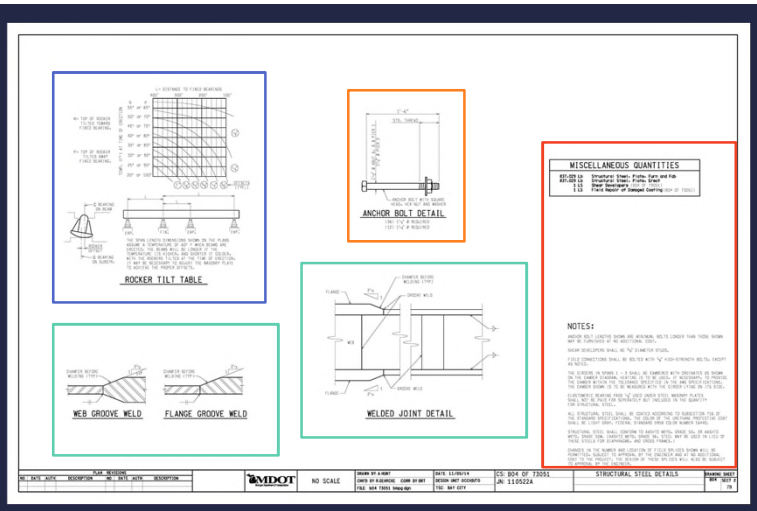
35

STEEL BEAM DETAILS



36

STEEL BEAM DETAILS



37

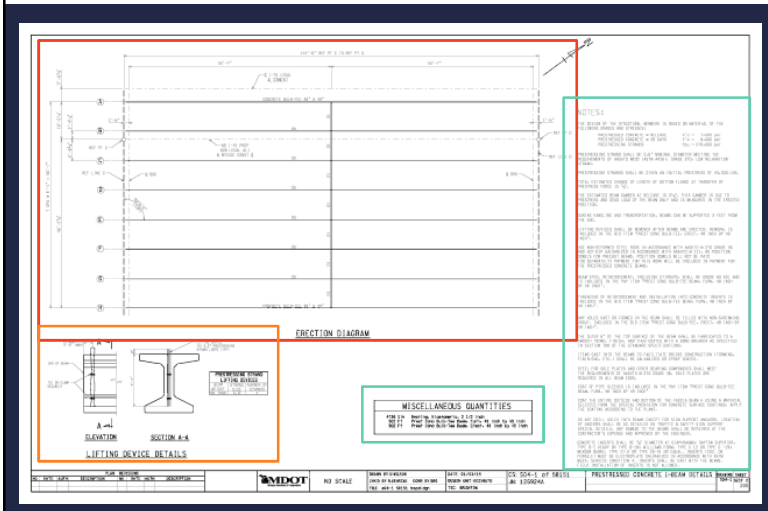
This is getting pretty dry.

Kind of like their personalities…

HA!
That was a good one.

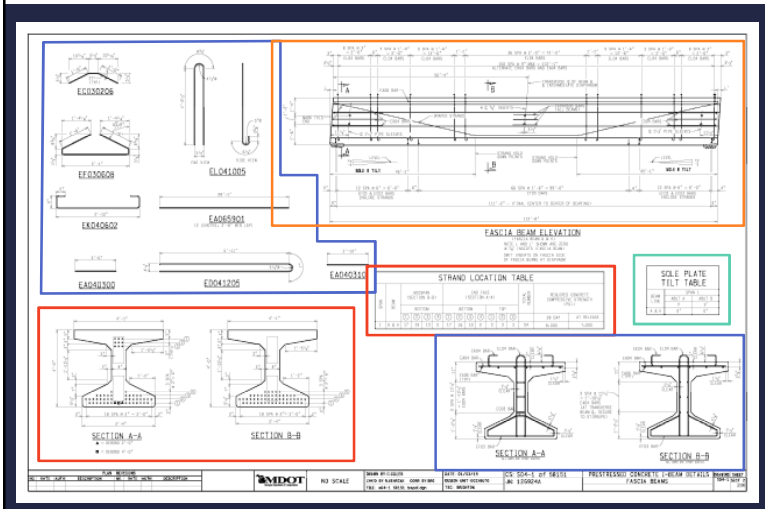
38

CONCRETE BEAM DETAILS



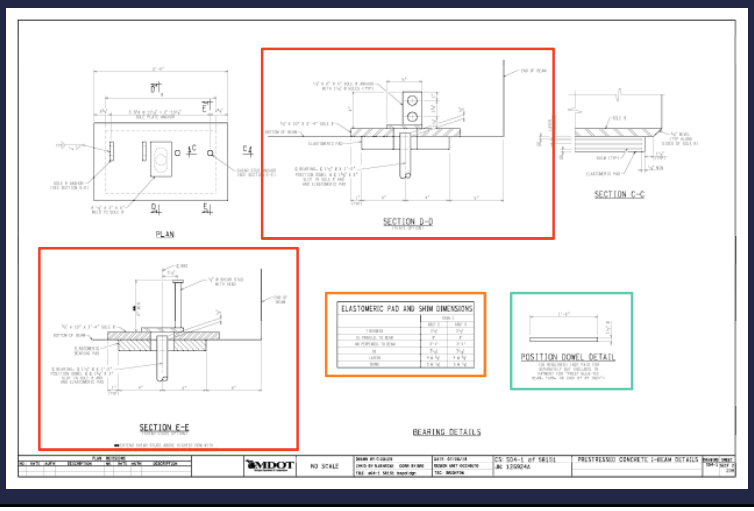
39

CONCRETE BEAM DETAILS



40

CONCRETE BEAM DETAILS

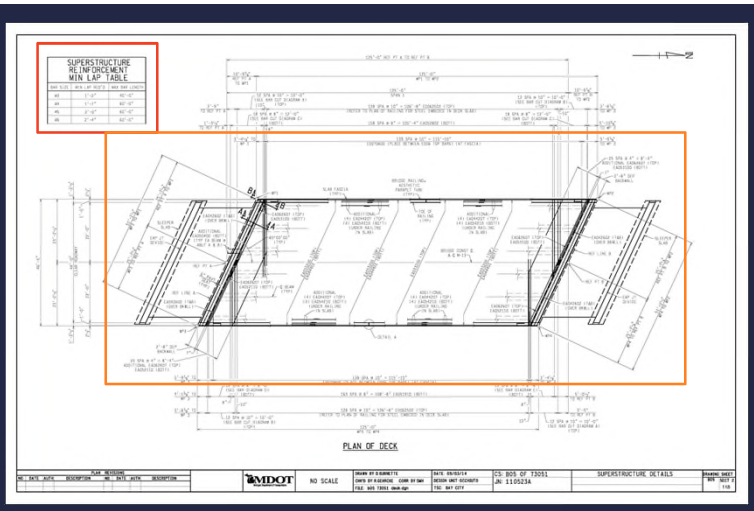


41

DECK DETAILS

42

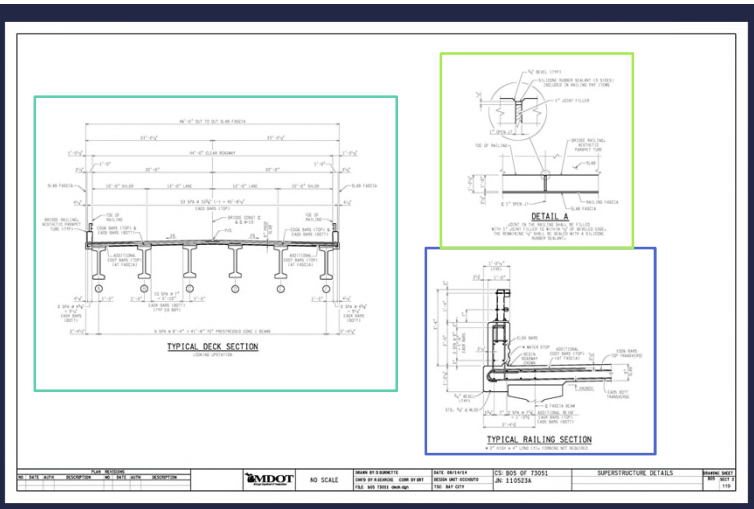
DECK DETAILS



- Transverse Top
- Transverse Bottom
- Longitudinal Top
- Longitudinal Bottom
- Barrier or Railing
- Fascia Overhang
- Over Piers or Negative Moment Areas

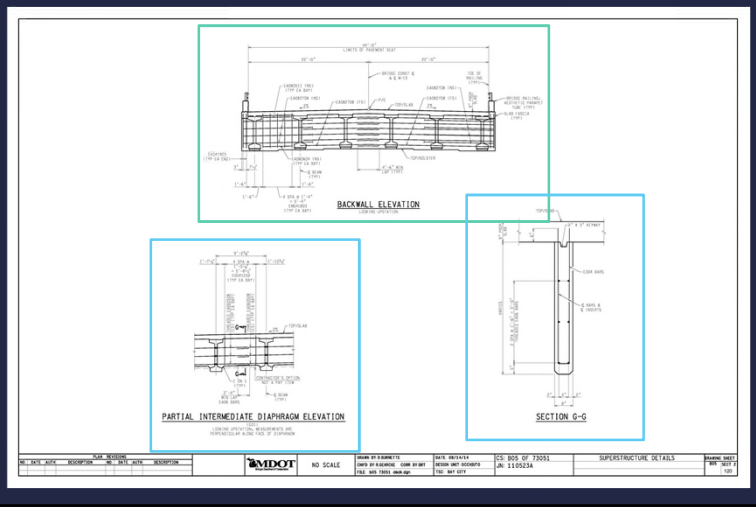
43

DECK DETAILS



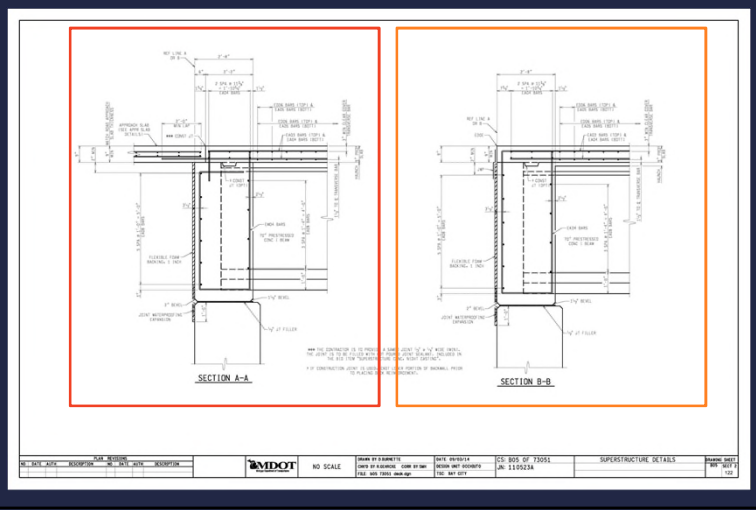
44

DECK DETAILS



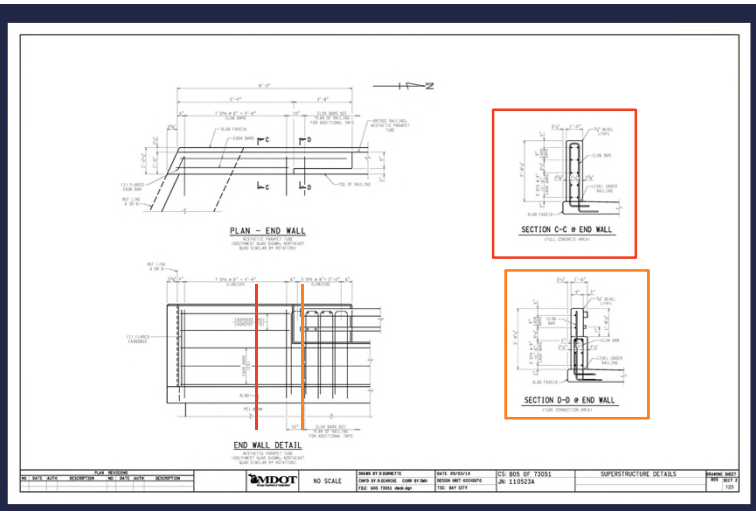
45

DECK DETAILS



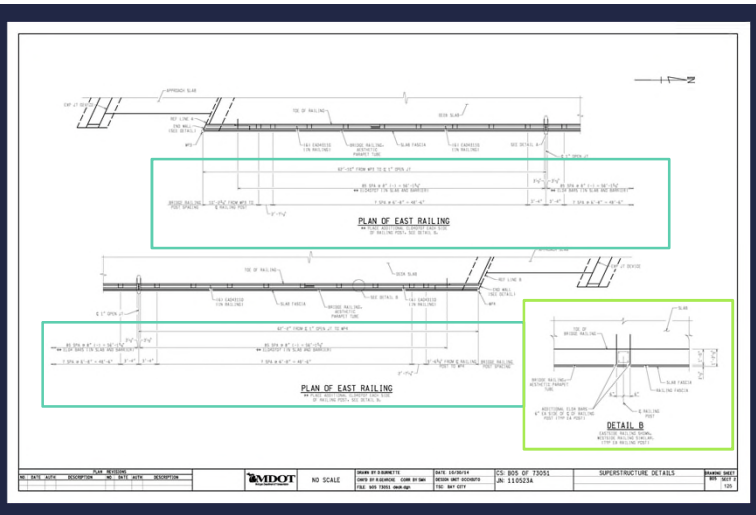
46

DECK DETAILS



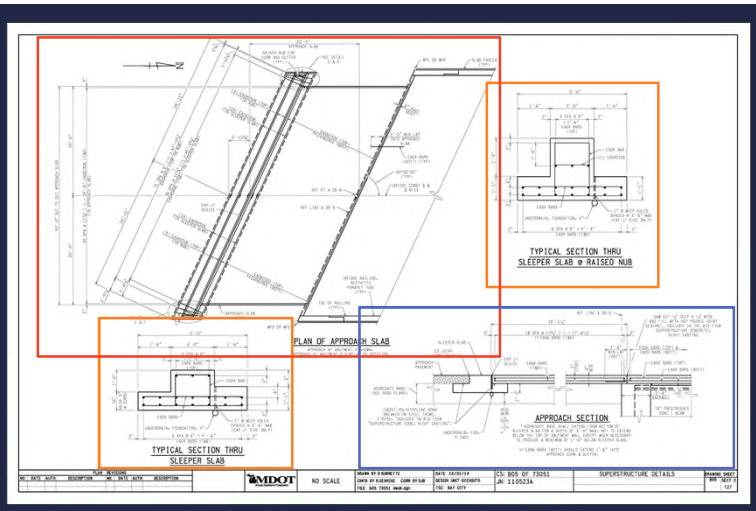
47

DECK DETAILS



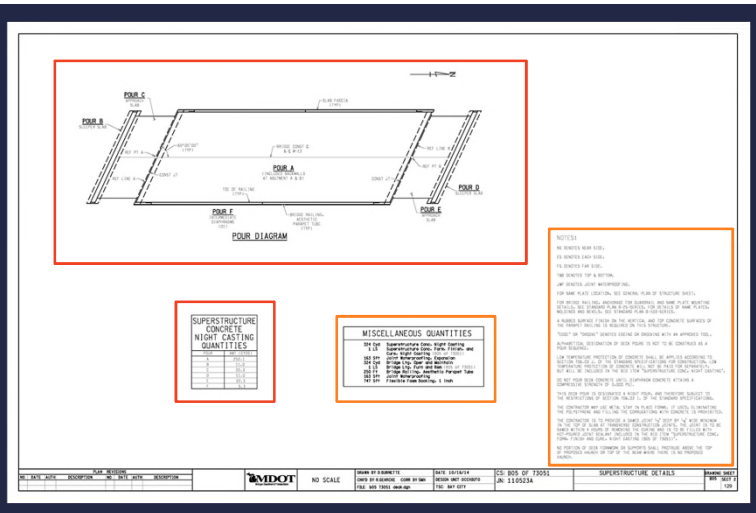
48

DECK DETAILS



49

DECK DETAILS



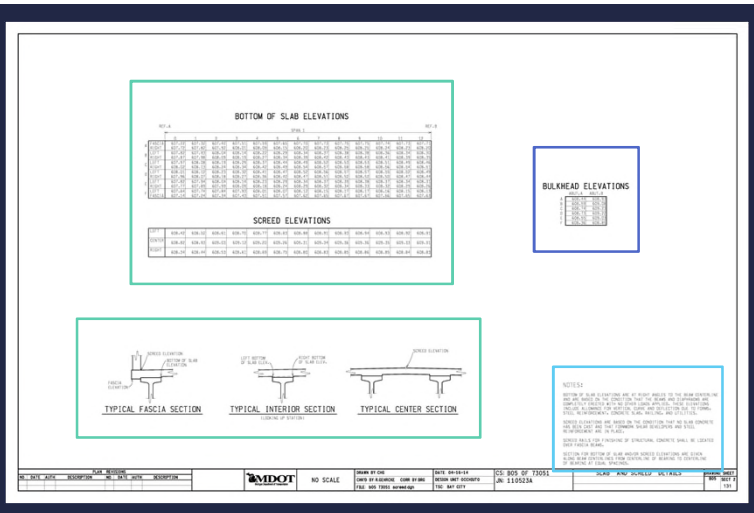
50



SLAB AND SCREED SHEET

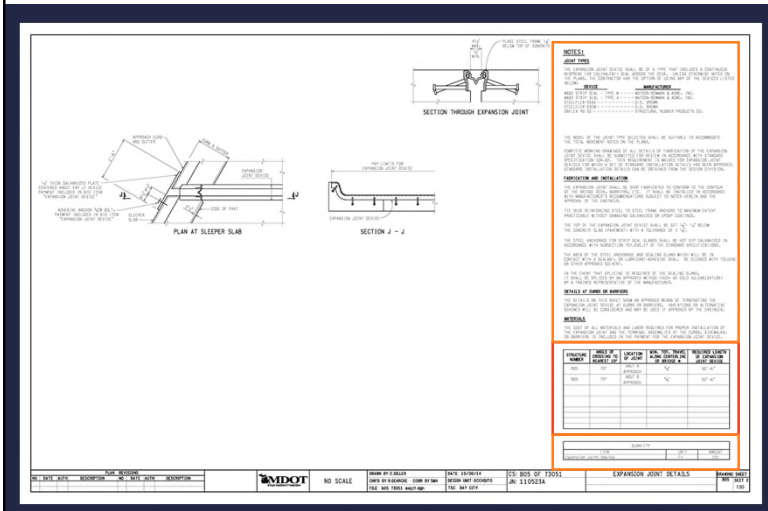
51

SLAB AND SCREED SHEET



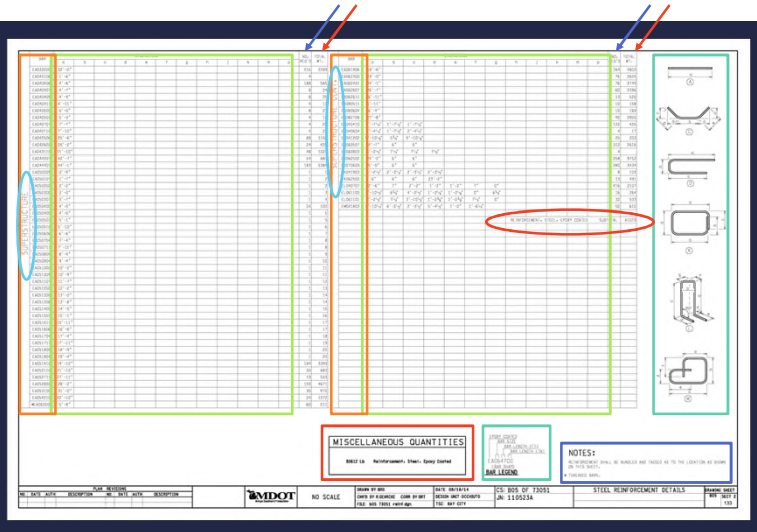
52

EXPANSION JOINT DEVICE



53

STEEL REINFORCEMENT



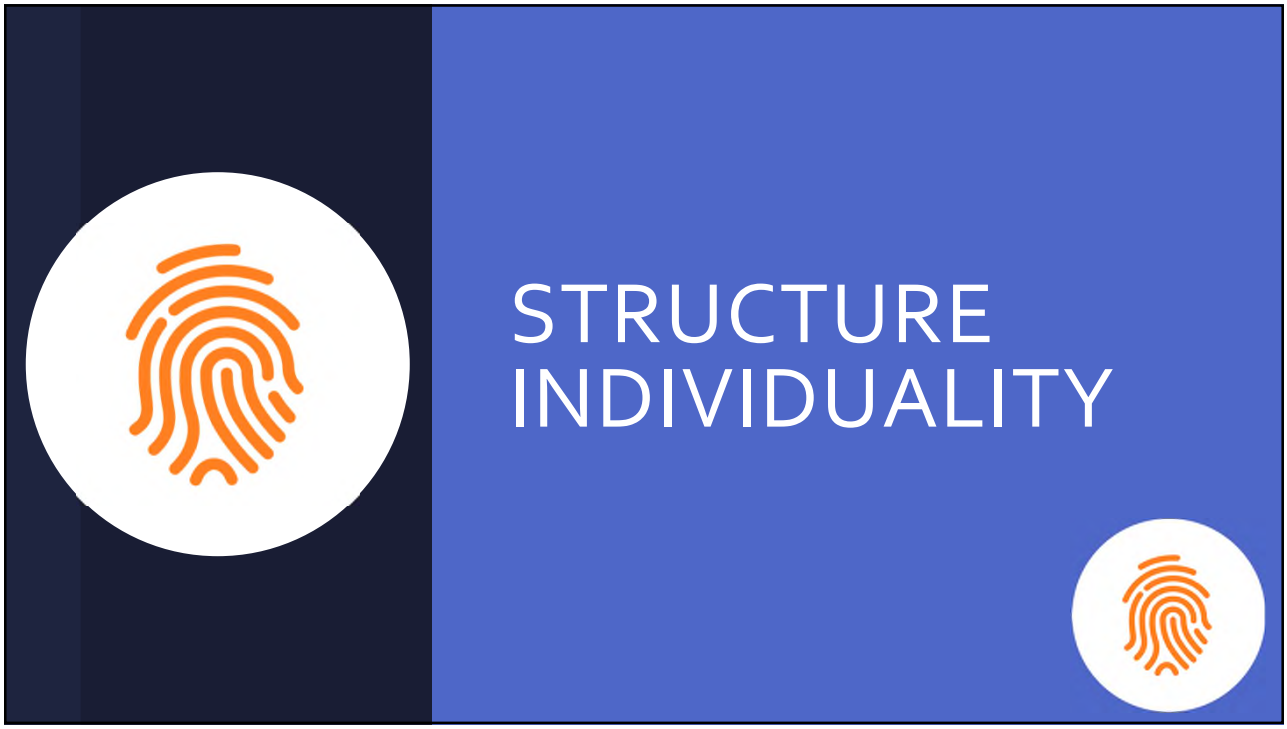
54

Alright.

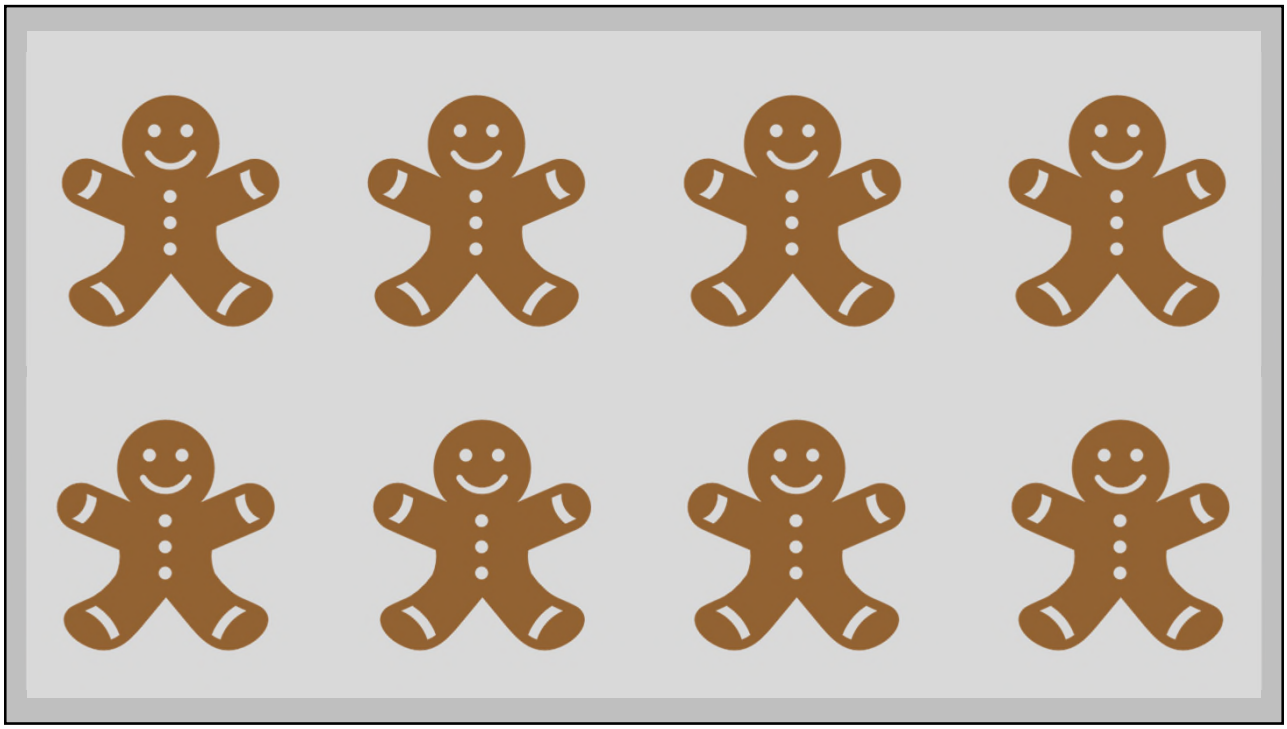
That was a lot of sheets.

Why don't they design and detail a few standard bridges instead?

55



56



57

Gingerbread Cookies?

$10 says she puts up her decorations before Thanksgiving

58

59

KEY POINTS

- Preliminary Plans = Big Picture
- Final Plans = Details
- Late changes = Multi Sheet Changes
- Every bridge is different

60