URS
277 West Nationwide Boulevard
Columbus, OH 43215-2566
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Architects, Engineers & Planners

CONFERENCE RECORD

LOCATION: Department of Public Utilities, Stormwater Section, 1250 Fairwood Avenue, Columbus, Ohio

BY: Phil Fry

ATTENDEES: See Attached:

COPIES: Attendees, Central Files

MEETING DATE: March 17, 2014

ISSUE DATE: April 4, 2014

PROJECT: FRA-70-13.54, PID NO. 77372
I-70 / I-71 West Interchange Project 4A Bridge Replacements Over Scioto River

JOB NO.: 14578403

RE: Floodplain Coordination City of Columbus

THE FOLLOWING REPRESENTS MY UNDERSTANDING OF THAT WHICH SHOULD BE RECORDED. IF CHANGES SHOULD BE MADE, PLEASE FORWARD PROMPTLY SO THAT AN ACCURATE RECORD CAN BE MAINTAINED FOR THE BENEFIT OF ALL.

Summary:

1. **Introductions**
2. **Project Overview** (Phil Fry, Leslie Montgomery, Davin Ng)
    a. **Project 4A:** The project consists of the two eastbound bridges over the Scioto River and other bridges and roadways to connect existing I-71 northbound to the proposed Columbus Crossroads projects east of Project 4A. The design is being led by GPD. The Stage 2 submittal is due on December 15, 2014 with construction to begin Fiscal 2017 (July 2016 – June 2017).
    b. **Project 6A:** The project consists of the three westbound bridges over the Scioto River and other bridges and roadways to connect the proposed project eastward (downtown trench) I-71 southbound to the existing / proposed projects southwesterly along existing I-71 / SR-315 of Project 6A. The design is being led by ms consultants. The TS&L submittal is due in May 2014 with construction to begin Fiscal 2017.
    c. **Proposed Conditions:** The existing three bridges are 9 span bridges and the proposed five bridges will be 5 span steel girder bridges with capped drilled shaft piers. The I-71 southbound flyover bridge (RC1 – northern / upstream most bridge) will likely not be a drilled shaft but rather use special shaped columns.
    d. **Modeling to Date:** URS is performing the hydraulic analysis for both projects and will submit as one report to ODOT and the City for review and approval. URS will finalize the modeling and the report concurrent with the latter of Project 4A Stage 1 submittal and Project 6A TS&L submittal. Based upon the modeling to date URS anticipates a No-Rise for the proposed conditions. URS will need to update the proposed condition model to account for the recent horizontal and vertical changes for Project 4A and incorporate design information from ms compatible with their TS&L submittal. It may be necessary to use tied block mat or concrete slab under the bridges along the east bank in order to achieve the No-Rise.
3. **Floodplain Coordination Issues** (Phil Fry / Josh Reinicke)
    a. **Effective Model:** The current effective model is the model submitted by EMH&T for a LOMR after the Town Street Bridge was constructed.
    b. **Floodwall:** The floodwall was designed for approximately the 460-year. The difference

between the 460 and 500-year water surface elevations is approximately 0.3 feet. The recent profile revisions were made such that the low beam elevations clear the 500-year event.

c. **Scioto Greenways Model Coordination:** The effective model is based upon the Main Street Dam being in place. The dam has been removed to the commencement of the Scioto Greenways project. According to Stantec's post project condition model the 100-year water surface elevation will be lowered approximately 0.6 feet. Stantec intends to submit a LOMR after the project is built. Since the LOMR may not be approved by FEMA until 2016 and ODOT needs to finalize the Waterway permits now the approval of the ODOT project will need to be based upon the current effective model and not based upon the future LOMR model. URS will document the results of the post Scioto Greenways and post ODOT project conditions. It was agreed by ODOT and the City to use the current Effective Model for the ODOT hydraulic analysis and the No-Rise certification could be approved without waiting for the LOMR from Scioto Greenways.

d. **Short Street Bridge & Railroad Bridge:** Based upon the current FIRM (6/17/2008) the openings convey overbank flow under the Interstate but this is a mapping function. These bridges are not part of the model. According to the model all the flow is contained in the river and flows under the river crossings. URS will document in the report the existing versus proposed cross section view under these bridges at the narrowest location.

e. **Compensatory Storage:** The ODOT projects will place fill in the floodplain however compensatory storage will not be required because according to the CoC Stormwater Drainage Manual public roadway widening projects are exempt from this requirement.

4. **Floodwall Issues** (Mike Foster)
   a. There is an existing floodwall located south of the bridges along the top of west bank / the existing interstate roadway. Project 4A will confirm that these are not impacted within the 4A limits. Further south future phases of the overall interchange project (numerous years out) will need to investigate these impacts.
   b. Bridge excavation for foundations needs to consider the additional fill that was placed in the infield areas as part of the floodwall project to counteract uplift.
   c. Reducing the number of outfalls or adding new outfalls is not a concern from a USACE Floodwall perspective as long as the outfalls are protected.
   d. One existing outfall is unprotected and will need to be protected. This location is outside the Project 4A & 6A limits.
5. **Action Items:**
   a. GPD & ms: provide URS with updated bridge information.
   b. GPD: check TIN / Survey of floodwall south of bridges along west bank.
   c. URS: provide GPD & ODOT with floodwall record drawings previously received from CoC.
   d. URS: update modeling and submit hydraulic report and No-Rise Certification.
6. **Attachments:**
   a. Attendance Sheet
   b. Exhibits
   c. As-Built Floodwall Plan Sheets, regarding the discussion of fill that was placed within the interchange when the wall was constructed.

3/17/14 - HEC-RAS / Floodwall Mtg :

Name	Organization
Lana Wright	ODOT - D6 Hydraulics
Renee VanSickle	Columbus - Stormwater + Floodplain
~~Jeff Cox~~	" " "
Bud Braughton	City of Columbus
Jeremy Gauley	" " DOSD
Phil Fry	URS
Mike Foster	Columbus - Survey
Josh Reinicke	WCS
Davin Ng	GPD Group
Leslie Montgomery	ODOT
Mike Griffin	Columbus

MEETING AGENDA

URS
277 West Nationwide Boulevard
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Telephone: (614) 464-4500
Facsimile: (614) 464-0588
Architectural & Engineering Services

TIME: [Time]

MTG. DATE: [Meeting Date]

PLACE: [Place]

PROJECT: FRA-70-13.54, PID NO. 77372
I-70 / I-71 West Interchange Project 4A
Bridge Replacements Over Scioto River

BY: Phil Fry

JOB NO.: 14578403

SUBJECT: Floodplain Coordination
City of Columbus

1. **Introductions**
2. **Project Overview**
    a. Projects 4a
        i. 2 EB Bridges and Roadway Limits
        ii. Schedule
    b. Project 6a
        i. 3 WB Bridges and Roadway Limits
        ii. Schedule
3. **Bridge Hydraulics Overview**
    a. Effective Model and Floodwall
    b. Existing Bridge Model
        i. River Survey
        ii. Low beam elevations
    c. Proposed Bridge Model
        i. Project 4a
            1. Spans, Pier Types, Dimensions
            2. Low Beam Elevations
        ii. Project 6a
            1. Spans, Pier Types, Dimensions
            2. Low Beam Elevations
        iii. Preliminary Results to Date.
            1. Effective to Existing
            2. Existing to Proposed
            3. Proposed to Existing
            4. Scioto Greenways to Proposed
4. **Scioto Greenways Model Coordination**
    a. Scioto Greenways Project Schedule / No-Rise / LOMR Timing Issue
    b. FRA-70-13.54, PID NO. 77372, Model and No-Rise Coordination / Local Approval Requirements.
5. **Non-River Bridge / Embankment / Wall Impacts to Floodplain**
    a. Short Street Bridge
    b. Railroad Bridge
    c. Upstream Embankment Along Mainline / CD / Ramps
    d. Downstream Embankment Along Mainline / CD / Ramps
6. **Report / Documentation Requirements**
    a. Any specific Issues of Concern to the City that need to be addressed.

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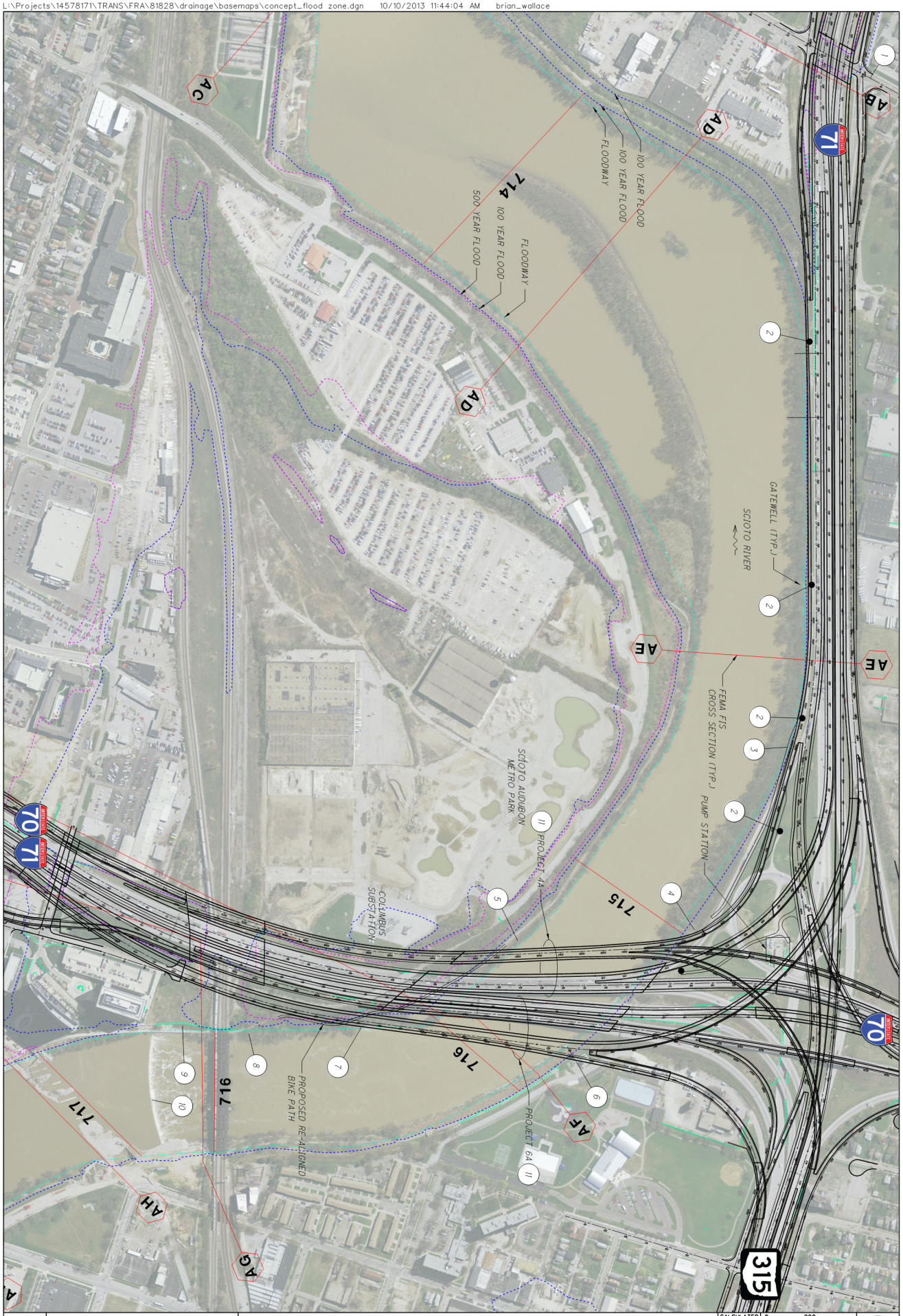

4 / 1	FRA-70-11.28	CONCEPT DRAINAGE - FLOOD ZONE BRIDGE WATERWAY EXHIBIT	CALCULATED BLW CHECKED PHF 0 200 100 400 HORIZONTAL SCALE IN FEET N

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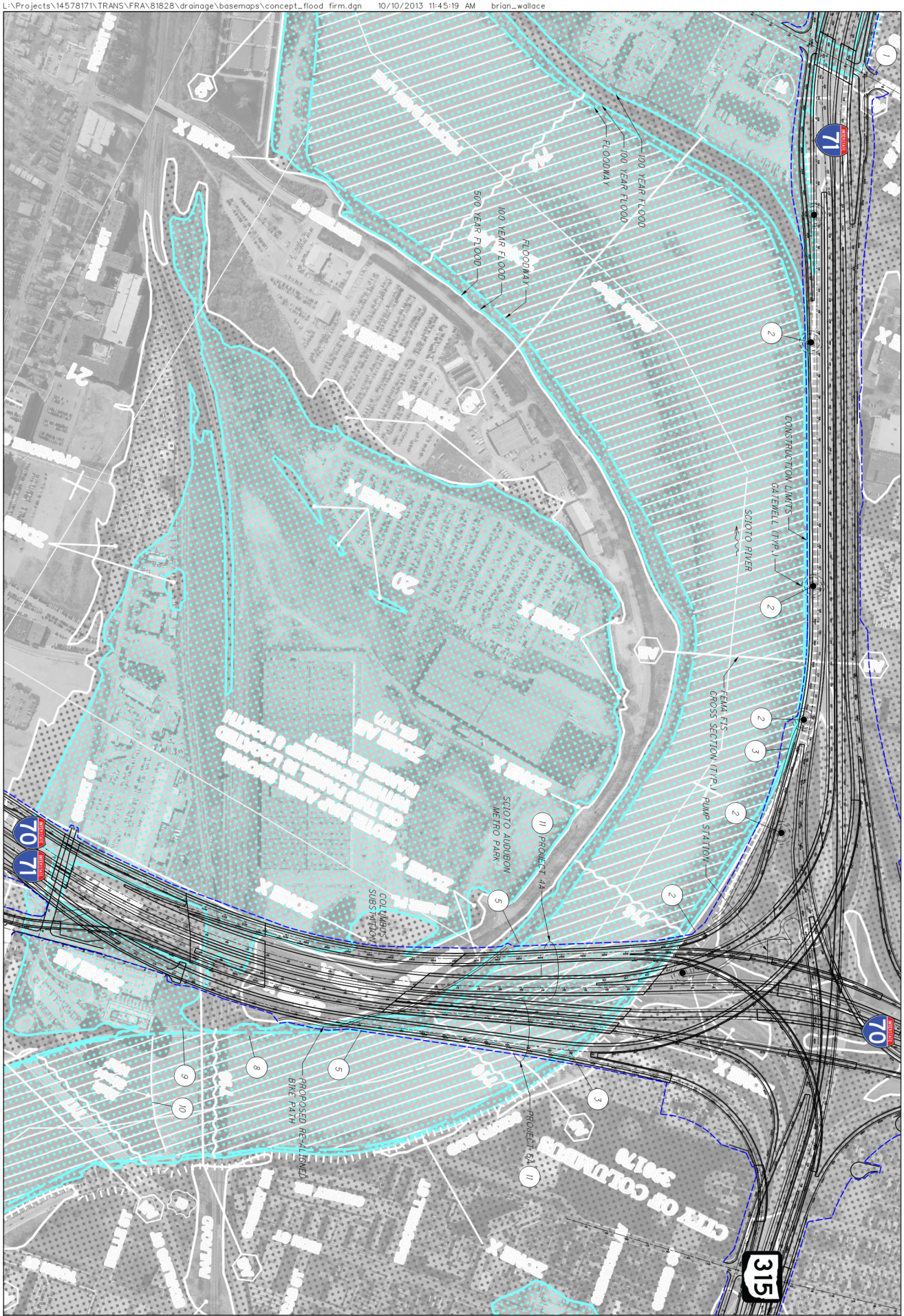
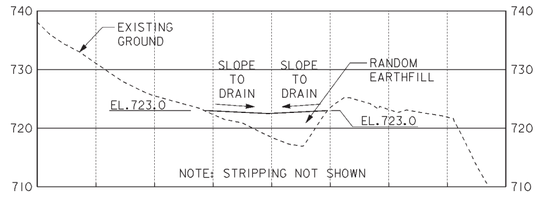


2 of 4	FRA-70-11.28	CONCEPT DRAINAGE - FLOOD ZONE FEMA FIRM WATERWAY EXHIBIT	CALCULATED BLW CHECKED PHF	0 200 100 400 HORIZONTAL SCALE IN FEET



SECTION A–A
FILL AREA NO.3 EMBANKMENT

SCALE: 1" = 50'
50' 0 50'

PLAN

SCALE: 1" = 50'
50' 0 50'

LEGEND

APPROXIMATE FILL AREA LIMITS

NOTES

1. REMOVE EXISTING CATCH BASIN AND REPLACE WITH ODOT NO.5 CATCH BASIN. SEE DATA ON DRAWING FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF CATCH BASIN NO.3-6. EXISTING CATCH BASIN WAS FILLED WITH DIRT AND INVERT ELEVATION COULD NOT BE DETERMINED. INVERT ELEVATION WAS OBTAINED FROM FRA-70-12.31S DRAWINGS.
3. FOR FILL AREA NO.1 SITE PLAN AND DETAILS SEE DRAWING NO.20.2/3
4. FOR FILL AREA NO.2 SITE PLAN AND DETAILS SEE DRAWING NO.20.2/4.
5. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO.15/8.

Revisions			
Symbol	Descriptions	Date	Approved

BURGESS & NIPLE, LIMITED
COLUMBUS, OHIO

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

Designed by: J.HALL
Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IIIA

FILL AREA SITE PLAN

Scale: AS SHOWN
Date: OCTOBER 1999
Drawing Codes: 16-PWC-12-
Sheet reference number: 20.2/2
FILENAME: 00exgp01.dgn
PEN TABLE:
Sheet 1 of 1

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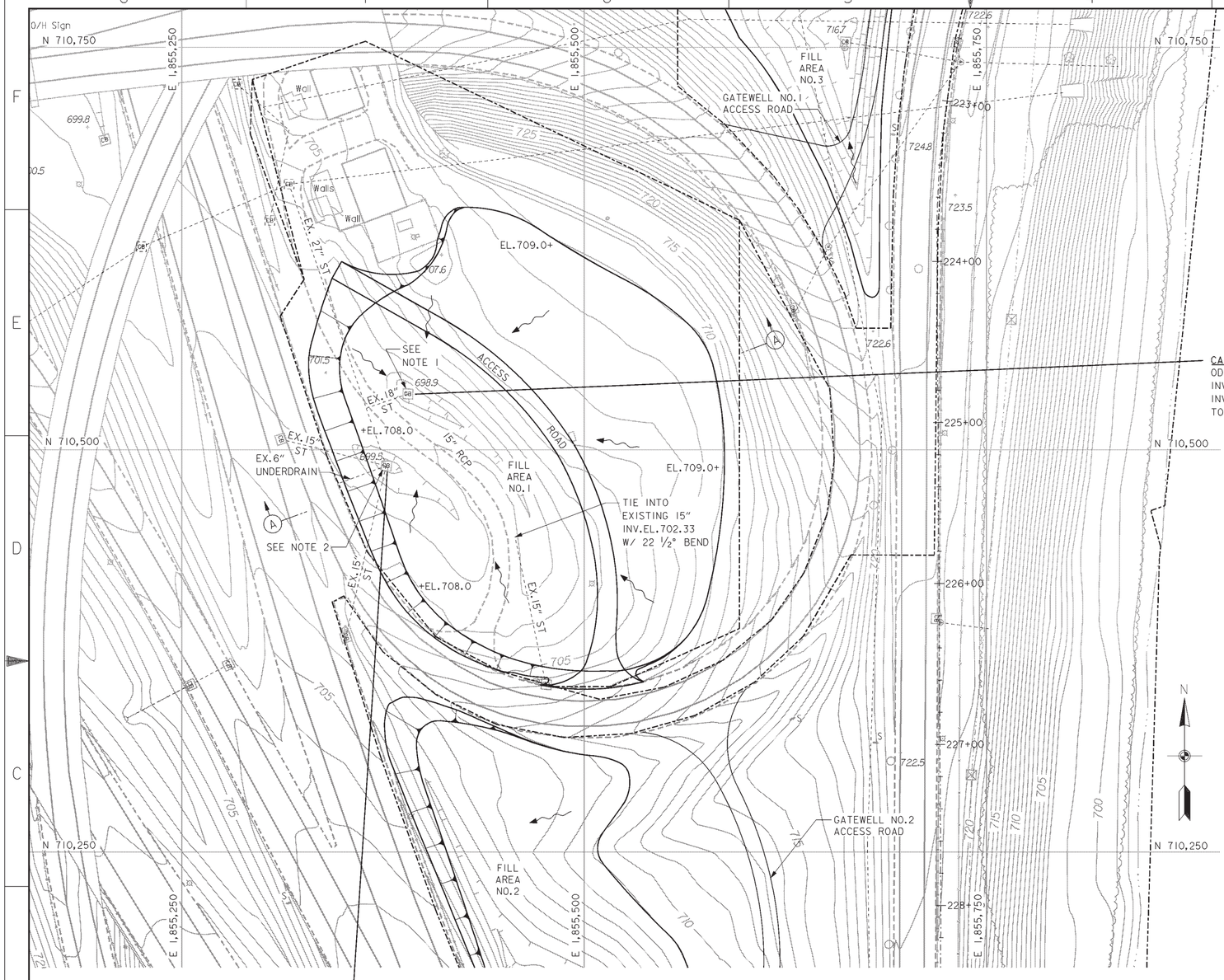
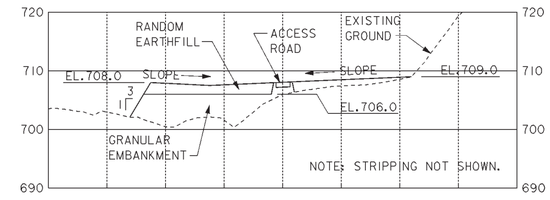


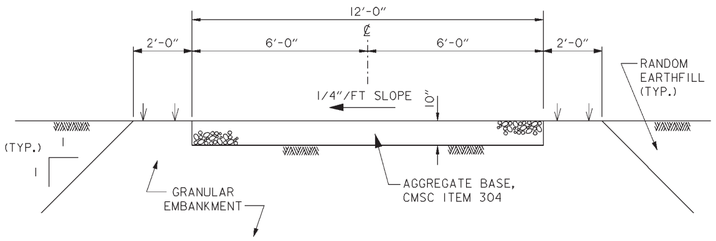
PLAN

SCALE: 1" = 30'



SECTION A-A
FILL AREA NO.1 EMBANKMENT

SCALE: 1" = 50'



TYPICAL ACCESS ROAD SECTION

SCALE: 1/2" = 1'-0"

NOTES

1. REMOVE EXISTING CATCH BASIN AND REPLACE WITH ODOT STANDARD NO.5 CATCH BASIN. SEE DATA ON DRAWINGS FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING CATCH BASIN AND REPLACE WITH CMSC TYPE "C" MANHOLE. SEE DATA ON DRAWINGS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING STORM SEWERS INTO CATCH BASIN NO.3-7 AND MANHOLE NO.3-10. INVERT ELEVATIONS WERE OBTAINED FROM ODOT FRA-70-12.31S DRAWINGS.
4. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO.15/8.

Revisions			
Symbol	Descriptions	Date	Approved
1	REVISED PER NEGOTIATIONS MEETING - 1/13/00	1/21/00	P.O.C.

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COLUMBUS, OHIO

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CORPS OF ENGINEERS
HUNTINGTON, WEST VIRGINIA

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Drawn by: T.MULLINS
Checked by: P.CONROY
Reviewed by:
Approved by:

US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IIIA

FILL AREA NO.1
SITE PLAN

Scale: AS SHOWN
Date: OCTOBER 1999
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Sheet reference number: 20.2/3
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Sheet 1 of 1

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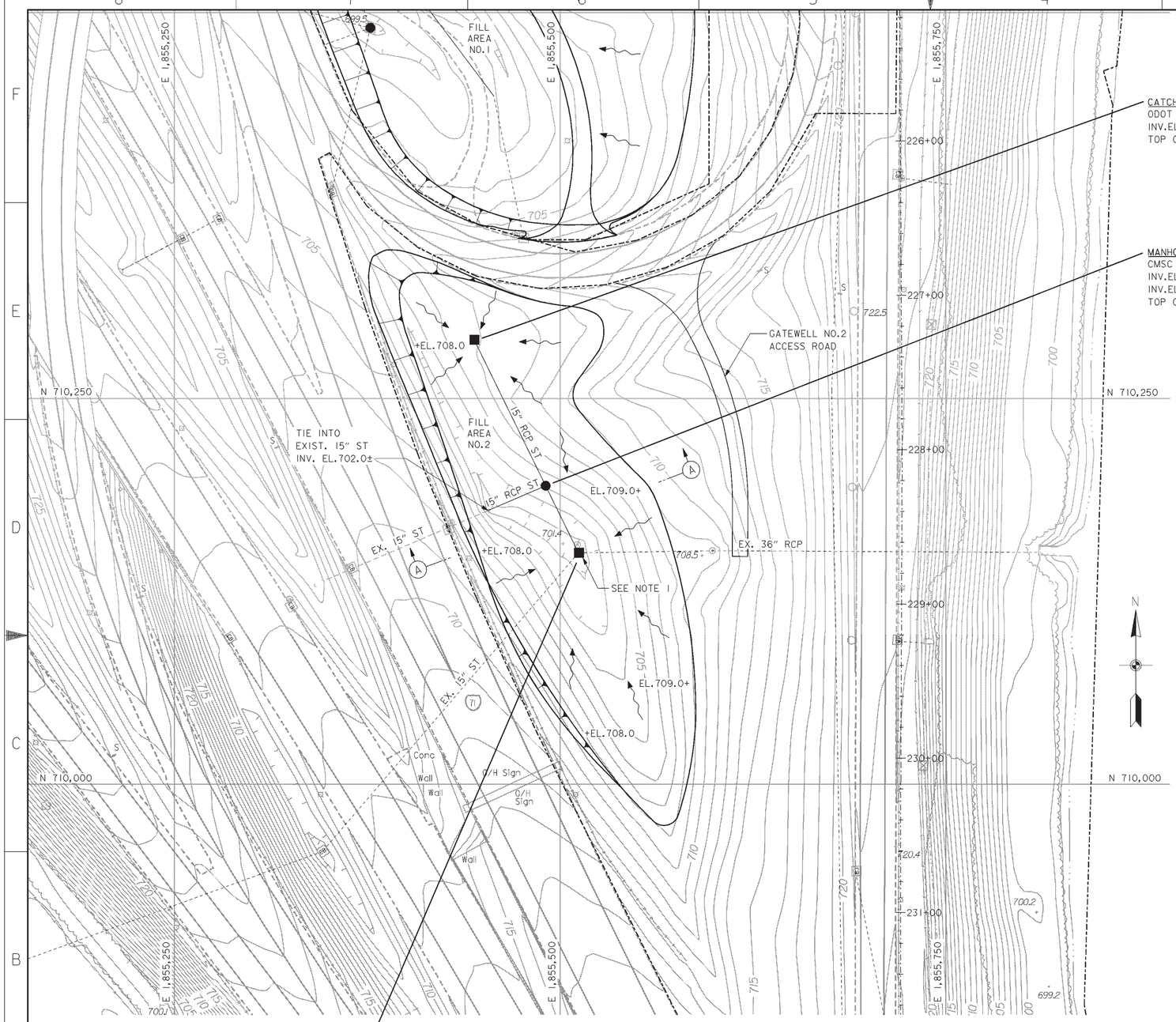
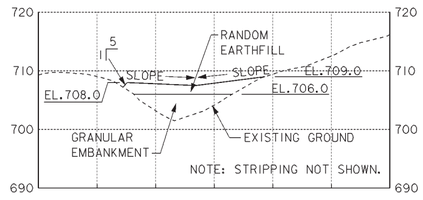


CATCH BASIN NO.3-9 (SEE NOTE 2)
ODOT STANDARD NO.5 CB
INV.EL. EX. 36" OUT 697.0
INV.EL. EX. 15" IN 698.75
INV.EL. 15" IN 697.0
TOP OF CASTING EL. 707.5

PLAN

SCALE: 1" = 30'
30' 0 30'



SECTION A-A
FILL AREA NO.2 EMBANKMENT

SCALE: 1" = 50'
50' 0 50'

NOTES

1. REMOVE EXISTING CATCH BASIN AND REPLACE WITH ODOT STANDARD NO.5 CATCH BASIN. SEE DATA ON DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING STORM SEWERS INTO CATCH BASIN NO.3-9. INVERT ELEVATIONS WERE OBTAINED FROM ODOT FRA-70-12.31S DRAWINGS.
3. FOR GATEWELL ACCESS ROAD TYPICAL SECTION SEE DRAWING NO.15/8.

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US Army Corps of Engineers

SCIOTO RIVER
COLUMBUS, OHIO
WEST COLUMBUS, L.P.P.
PHASE IIIA

FILL AREA NO.2
SITE PLAN

Scale: AS SHOWN
Date: OCTOBER 1999
Drawing Code: 16-PWC-12-
Sheet reference number: 20.2/4
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Sheet 1 of 1

WORK AS CONSTRUCTED