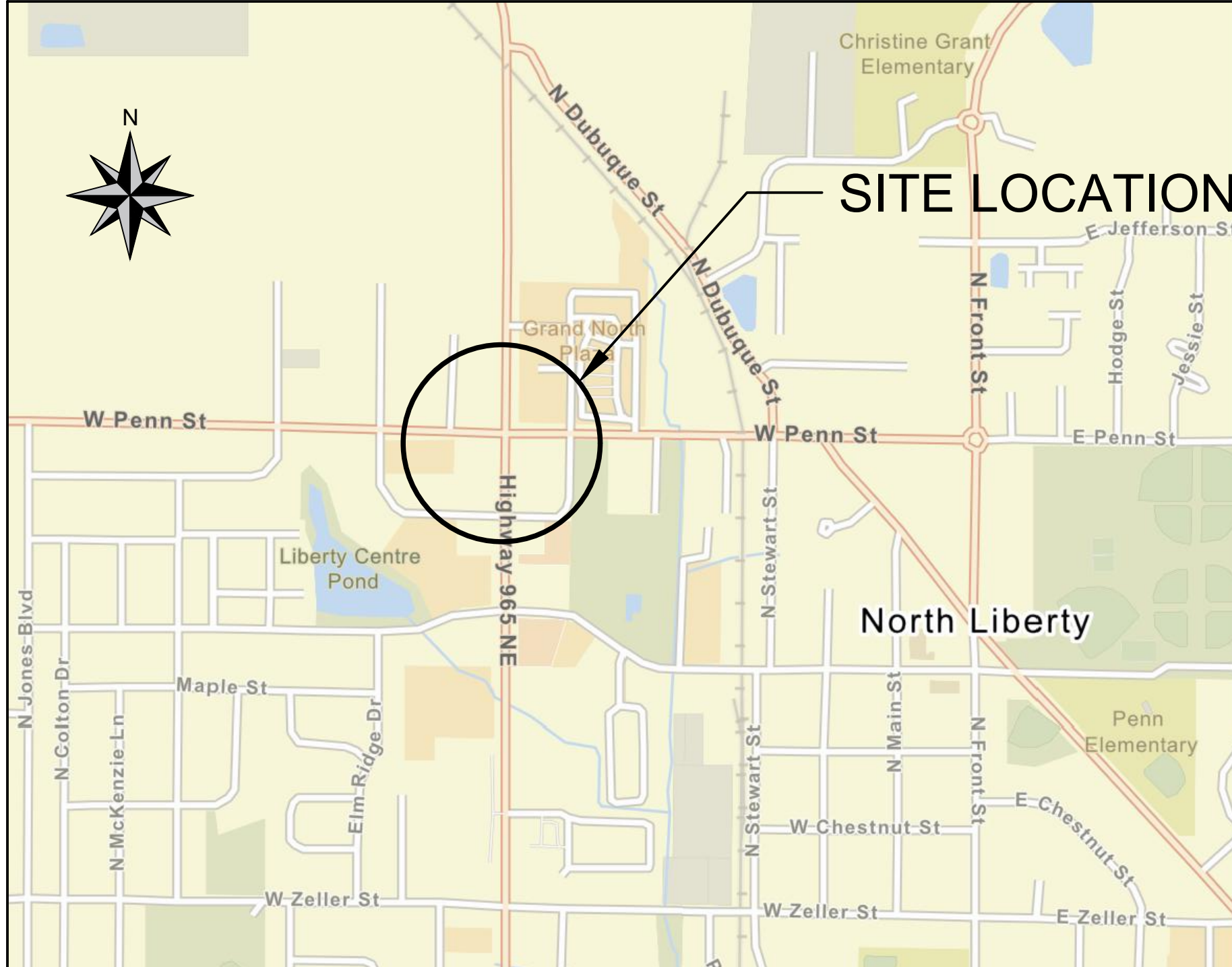


INTERSECTION OF RANSHAW WAY & PENN ST.



PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu

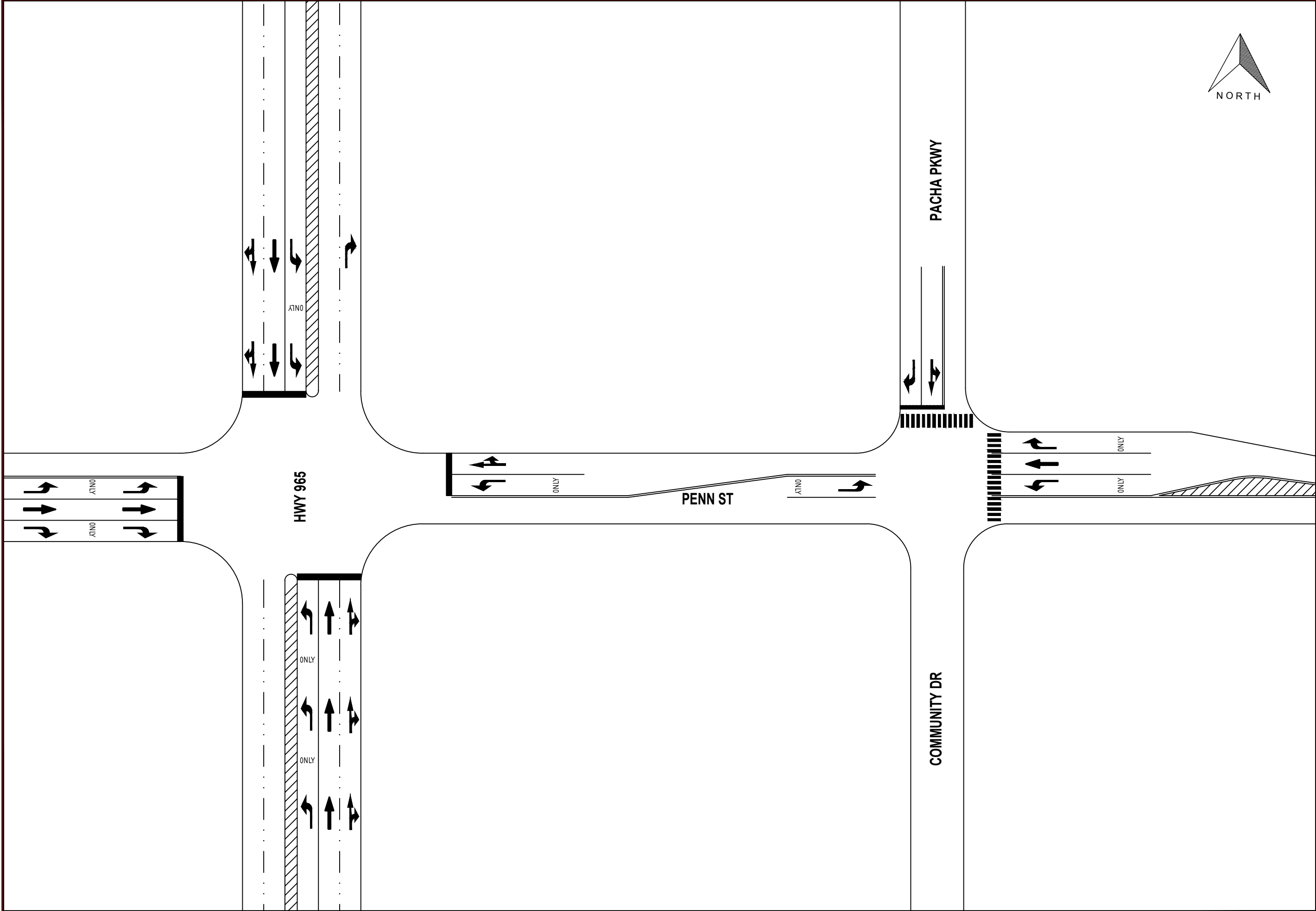


EDUCATIONAL - NOT
 FOR CONSTRUCTION

RANSHAW WAY & PENN
 INTERSECTION OF RANSHAW WAY &
 PENN ST IN NORTH LIBERTY, IOWA

SHEET NAME
 SITE LOCATION

SHEET NO.
1



PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu

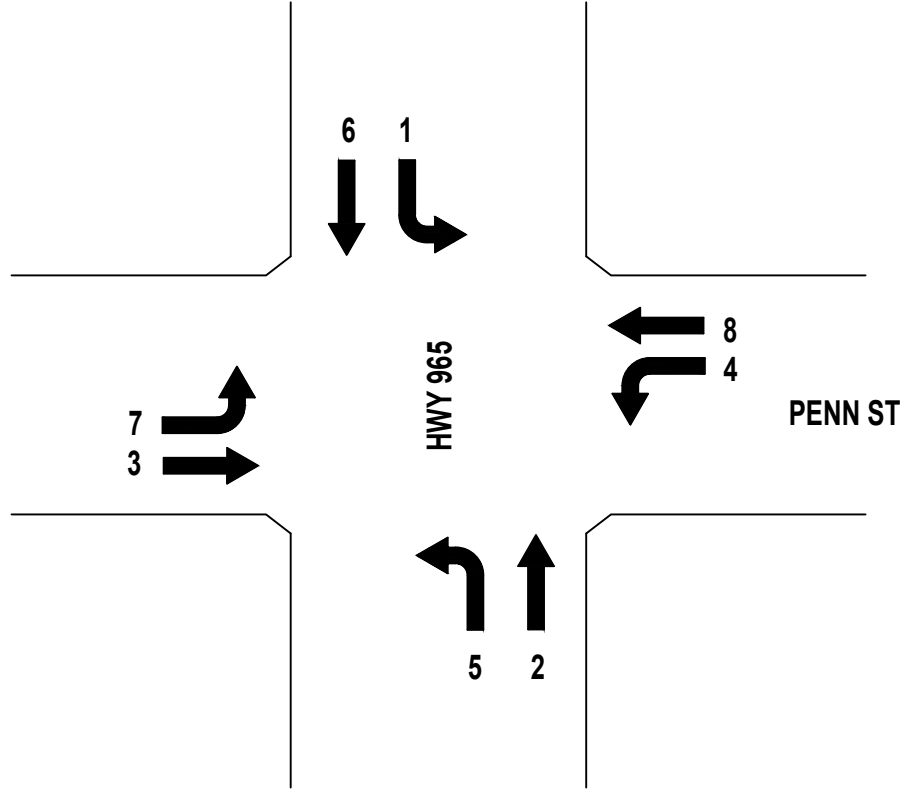


EDUCATIONAL - NOT
 FOR CONSTRUCTION

RANSHAW WAY & PENN
 INTERSECTION OF RANSHAW WAY &
 PENN ST IN NORTH LIBERTY IOWA

SHEET NAME	EXISTING CONDITIONS
SHEET NO.	2

PHASING & TIMING PLAN



1	2	3	4
10 s	30 s	50 s	50 s
5	6	7	8
15 s	25 s	50 s	50 s

Cycle Length = 140

PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

THE UNIVERSITY OF IOWA
 CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu

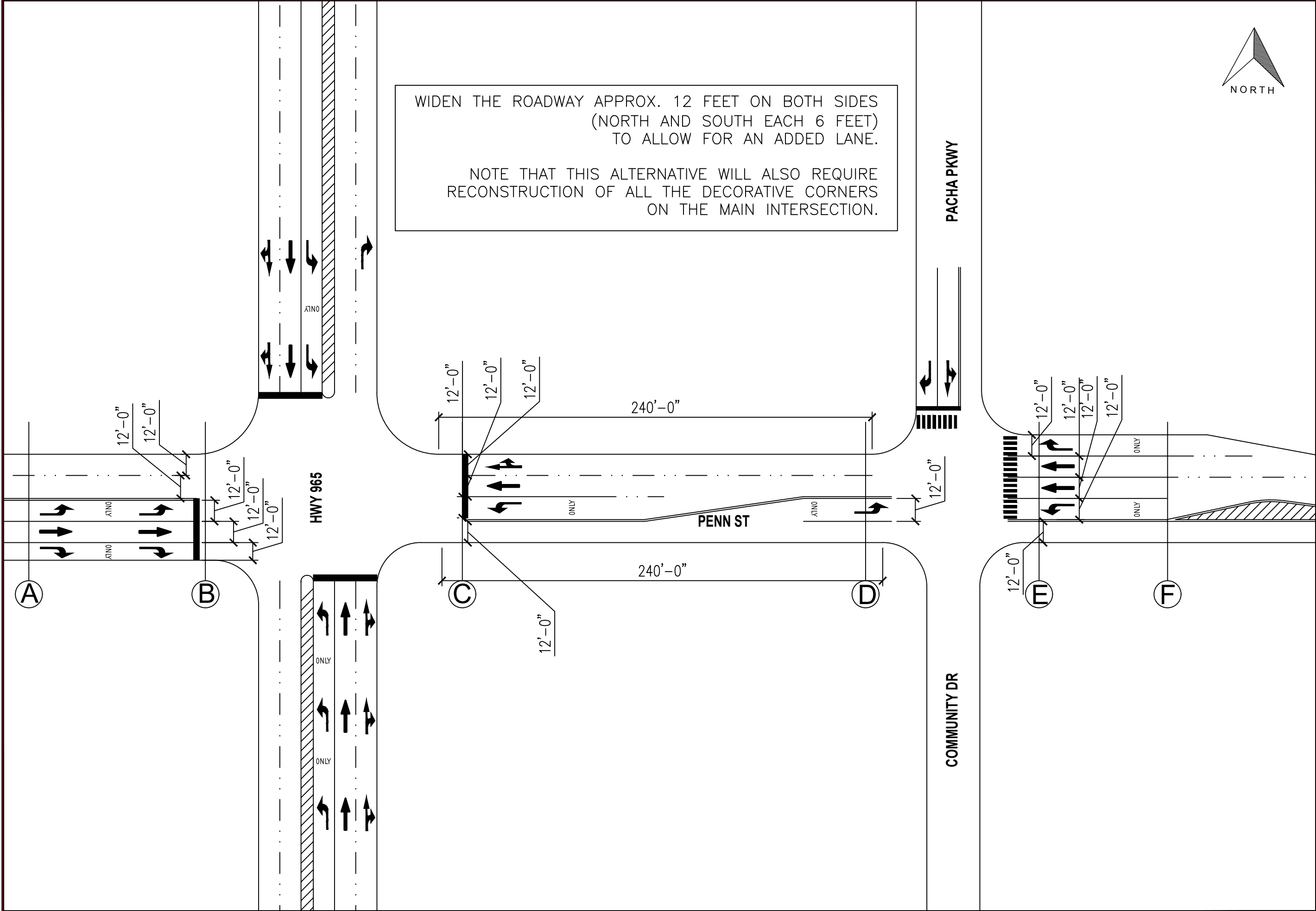


EDUCATIONAL - NOT FOR CONSTRUCTION

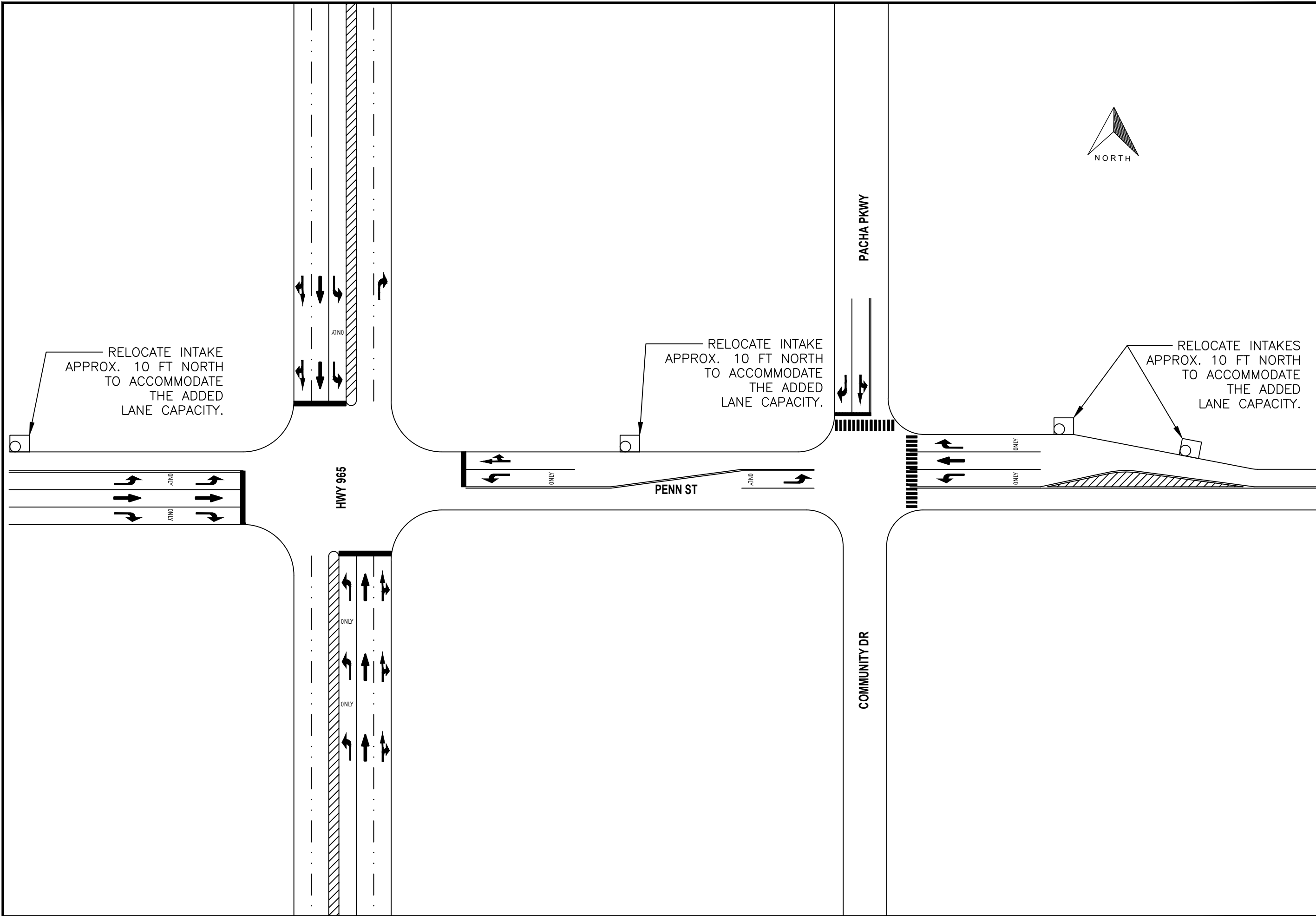
RANSHAW WAY & PENN
 INTERSECTION OF RANSHAW WAY &
 PENN ST IN NORTH LIBERTY IOWA

SHEET NAME
 PROPOSED
 ALTERNATIVE 1

SHEET NO.
3



<p>PROJECT: CEE: 4850</p> <p>DATE: 03/21/2023</p> <p>DRAWN BY: MM</p> <p>REVISION:</p>	<p>THE UNIVERSITY OF IOWA</p> <p>CIVIL AND ENVIRONMENTAL ENGINEERING</p> <p>4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES 103 S CAPITOL ST IOWA CITY, IOWA 52242 PHONE: 319.335.5647 FAX: 319.335.5660 EMAIL: civil-hawks@iowa.edu</p>
<p>EDUCATIONAL - NOT FOR CONSTRUCTION</p>	
<p>RANSHAW WAY & PENN</p> <p>INTERSECTION OF RANSHAW WAY & PENN ST IN NORTH LIBERTY IOWA</p>	
<p>SHEET NAME</p> <p>PROPOSED ALTERNATIVE 2</p>	<p>SHEET NO.</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">4</p>



PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu



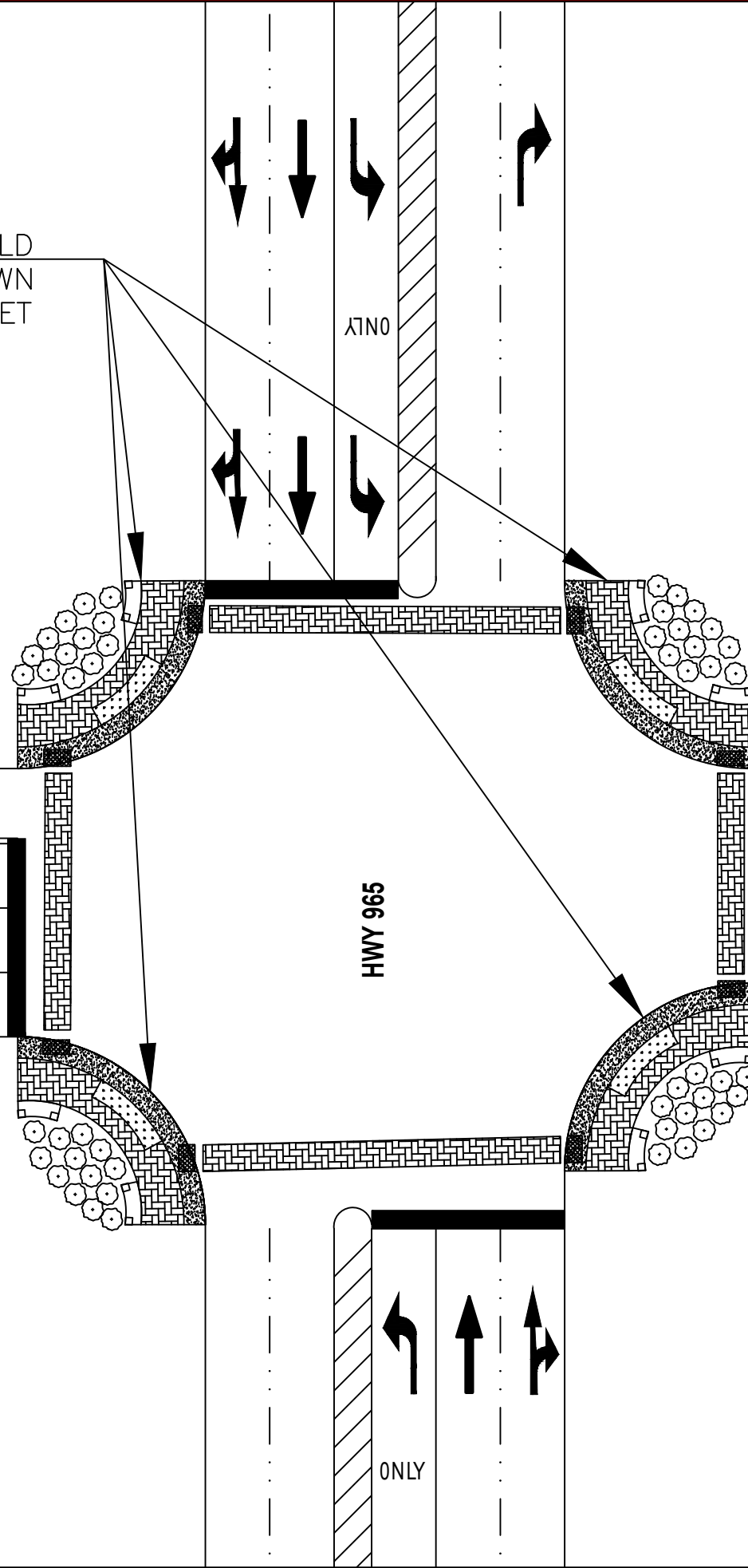
EDUCATIONAL - NOT FOR CONSTRUCTION

RANSHAW WAY & PENN
 INTERSECTION OF RANSHAW WAY &
 PENN ST IN NORTH LIBERTY IOWA

SHEET NAME
 RELCT INTAKES
 ALTERNATIVE 2

SHEET NO.
5

REMOVE AND REBUILD
ALL CORNERS AS SHOWN
ON THE NEXT SHEET



PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
4105 SEAMANS CENTER FOR THE
ENGINEERING ARTS AND SCIENCES
103 S CAPITOL ST
IOWA CITY, IOWA 52242
PHONE: 319.335.5647
FAX: 319.335.5660
EMAIL: civil-hawks@iowa.edu



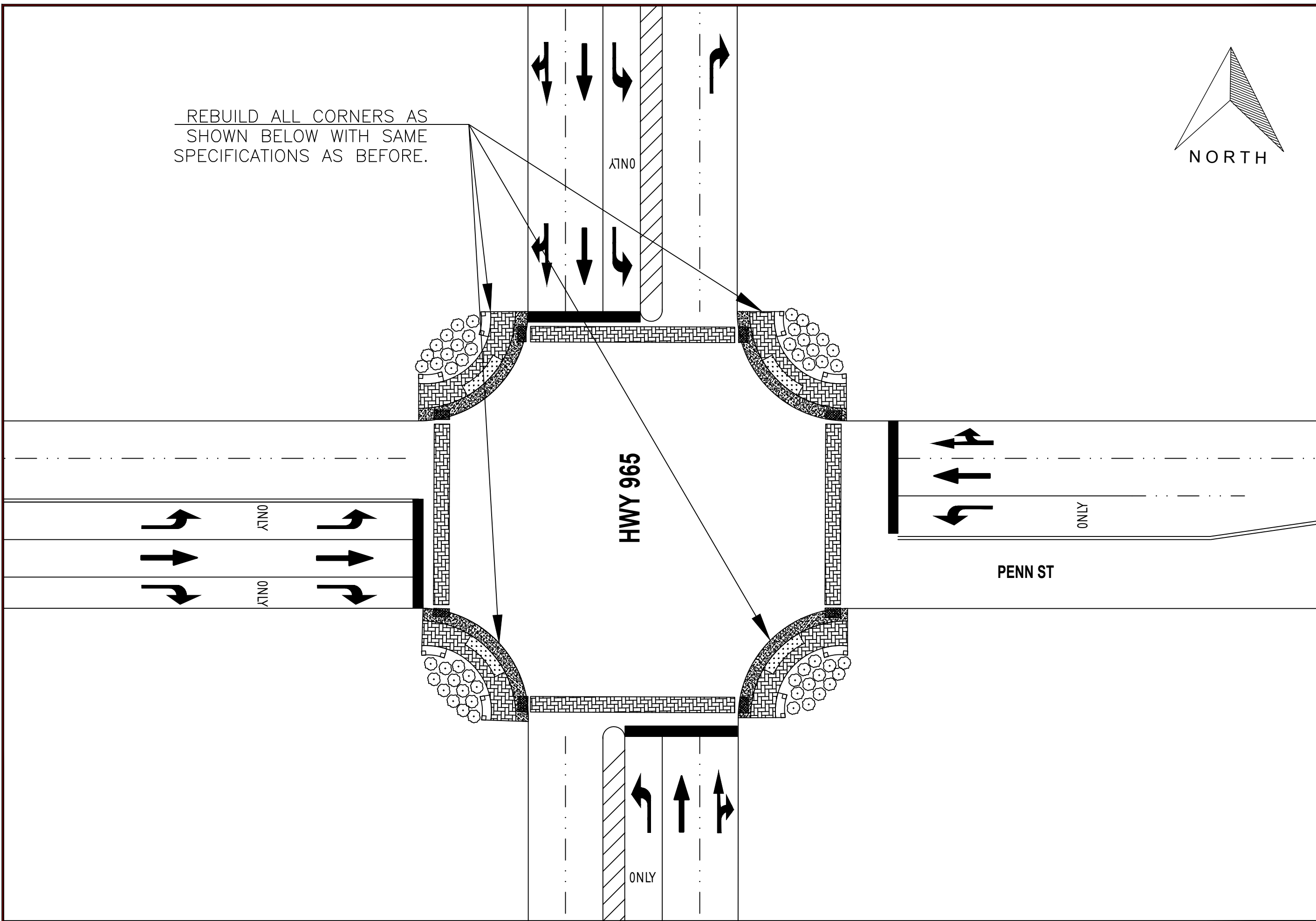
EDUCATIONAL - NOT
FOR CONSTRUCTION

RANSHAW WAY & PENN
INTERSECTION OF RANSHAW WAY &
PENN ST IN NORTH LIBERTY IOWA

SHEET NAME
DEMOLATION
ALTERNATIVE 2

SHEET NO.
6

REBUILD ALL CORNERS AS SHOWN BELOW WITH SAME SPECIFICATIONS AS BEFORE.



PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

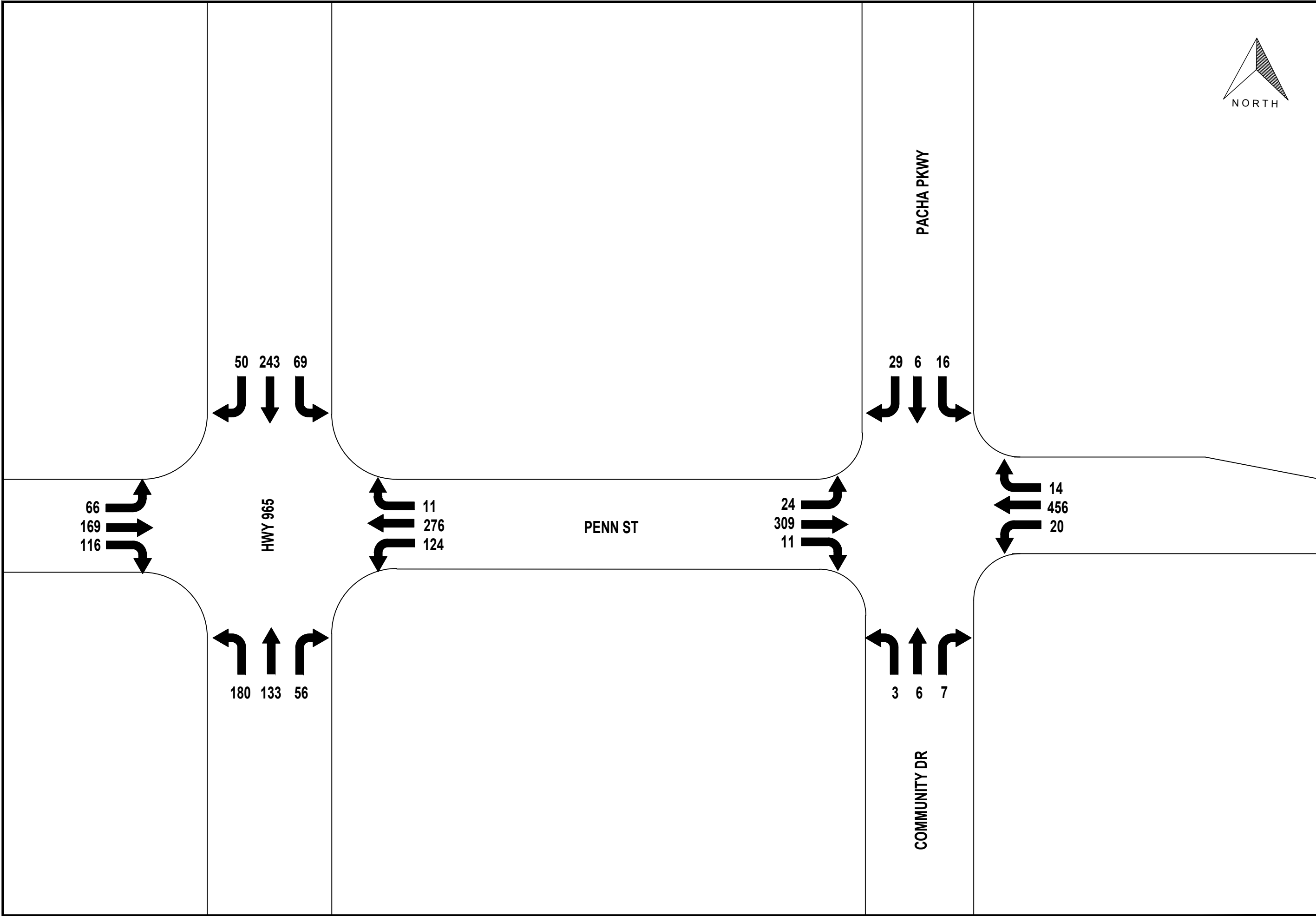
THE UNIVERSITY OF IOWA
 CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu



EDUCATIONAL - NOT FOR CONSTRUCTION

RANSHAW WAY & PENN
 INTERSECTION OF RANSHAW WAY &
 PENN ST IN NORTH LIBERTY IOWA

SHEET NAME	REBUILD ALTERNATIVE 2
SHEET NO.	7



PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

THE UNIVERSITY OF IOWA
 CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu

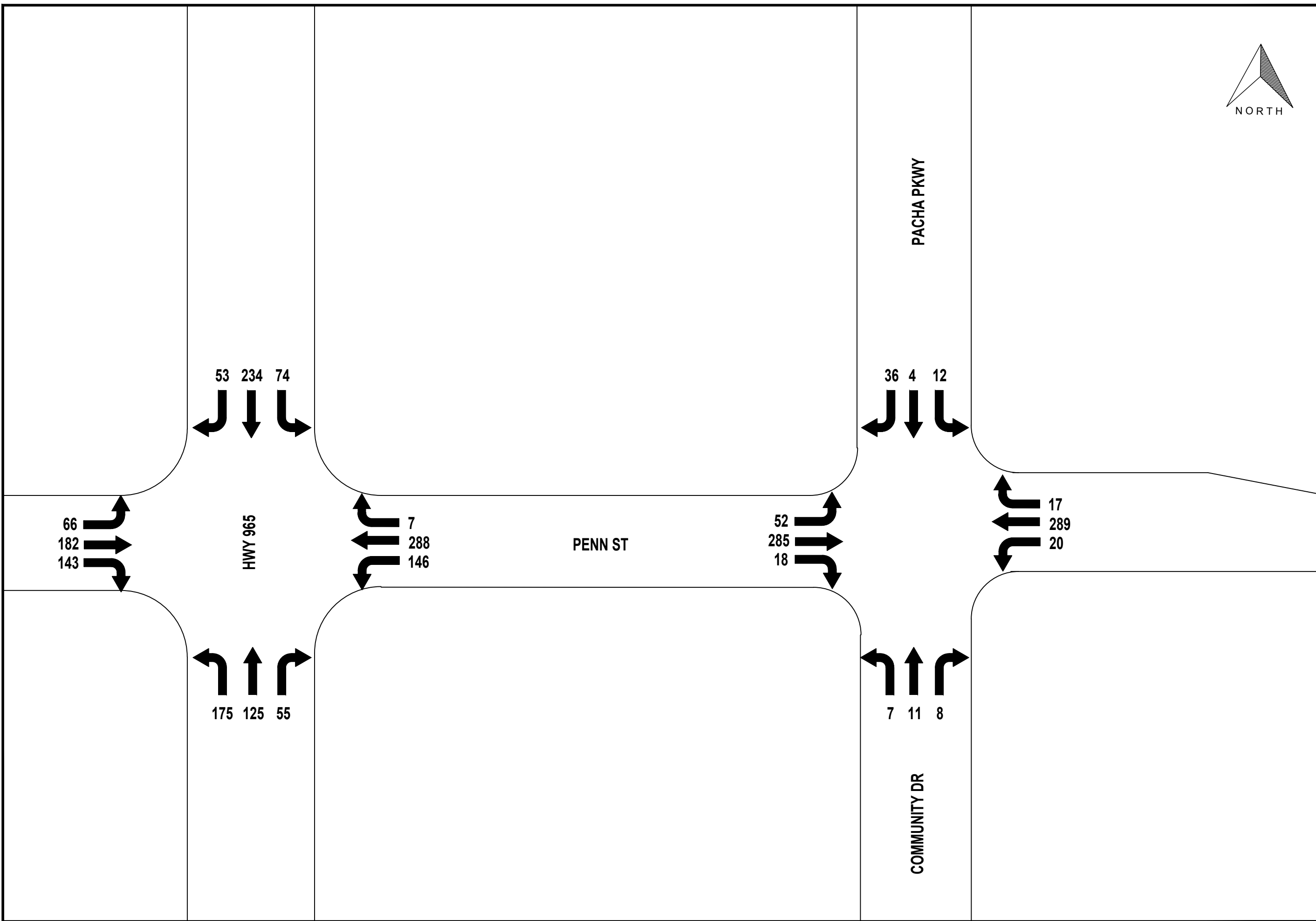


EDUCATIONAL - NOT FOR CONSTRUCTION

RANSHAW WAY & PENN
 INTERSECTION OF RANSHAW WAY &
 PENN ST IN NORTH LIBERTY IOWA

SHEET NAME
 TURNING
 MOVEMENT 7-8 AM

SHEET NO.
8



PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
4105 SEAMANS CENTER FOR THE
ENGINEERING ARTS AND SCIENCES
103 S CAPITOL ST
IOWA CITY, IOWA 52242
PHONE: 319.335.5647
FAX: 319.335.5660
EMAIL: civil-hawks@iowa.edu

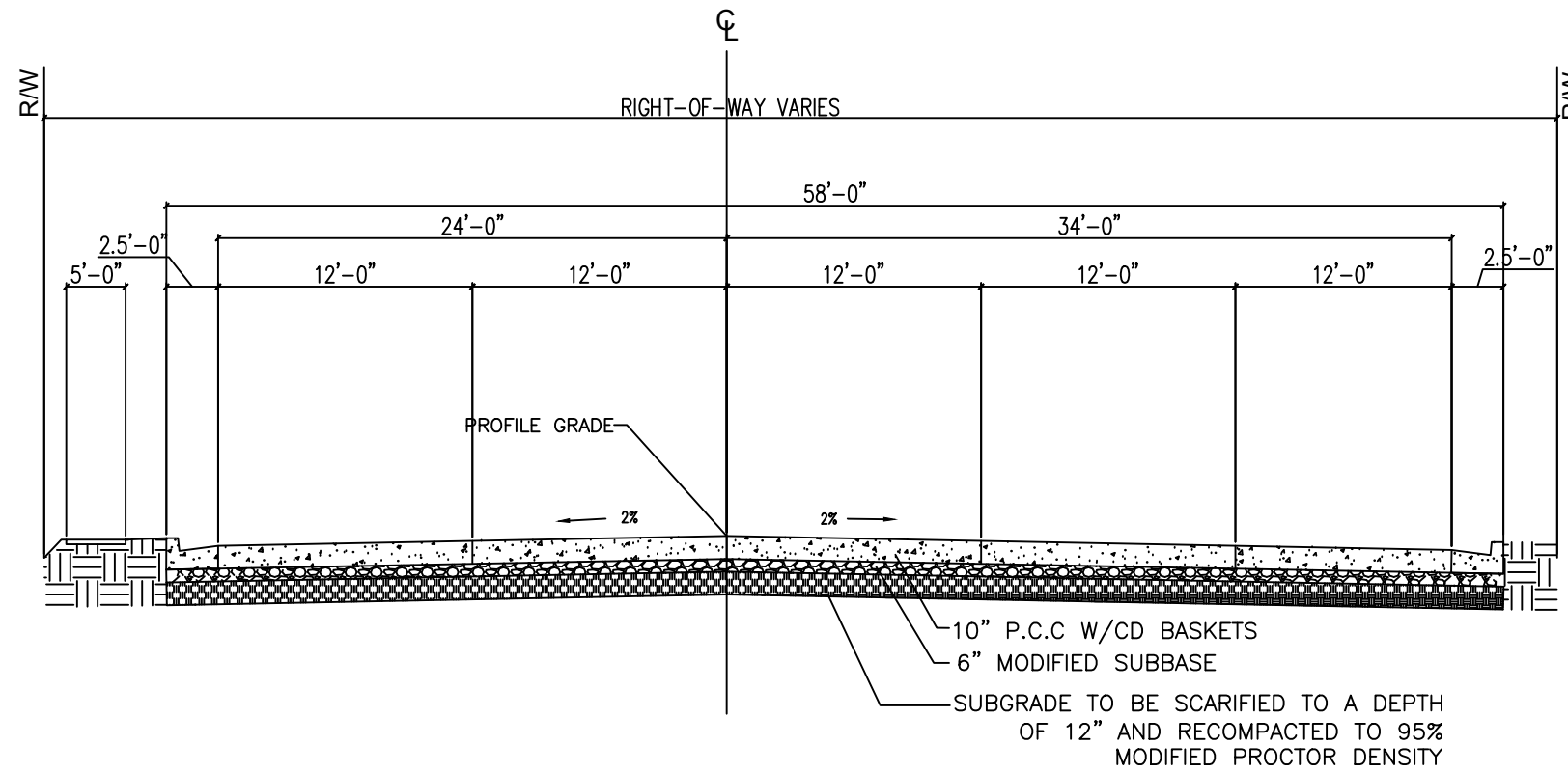


EDUCATIONAL - NOT FOR CONSTRUCTION

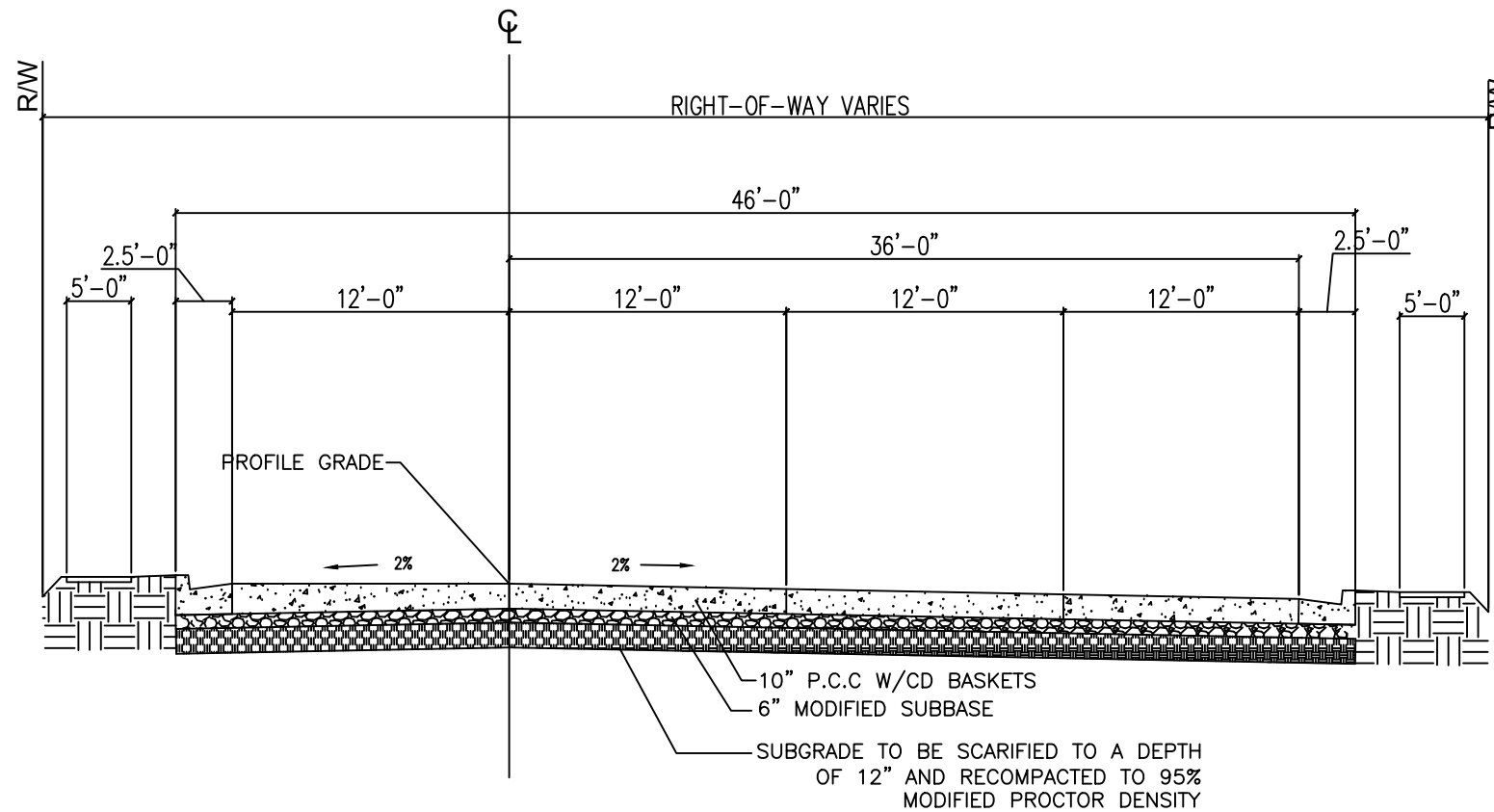
RANSHAW WAY & PENN
INTERSECTION OF RANSHAW WAY &
PENN ST IN NORTH LIBERTY IOWA

SHEET NAME
TURNING
MOVEMENT 8-9 AM

SHEET NO.
9



TYPICAL ROAD CROSS SECTION (A TO B)



TYPICAL ROAD CROSS SECTION (C TO D)

PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

THE UNIVERSITY OF IOWA
 CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu

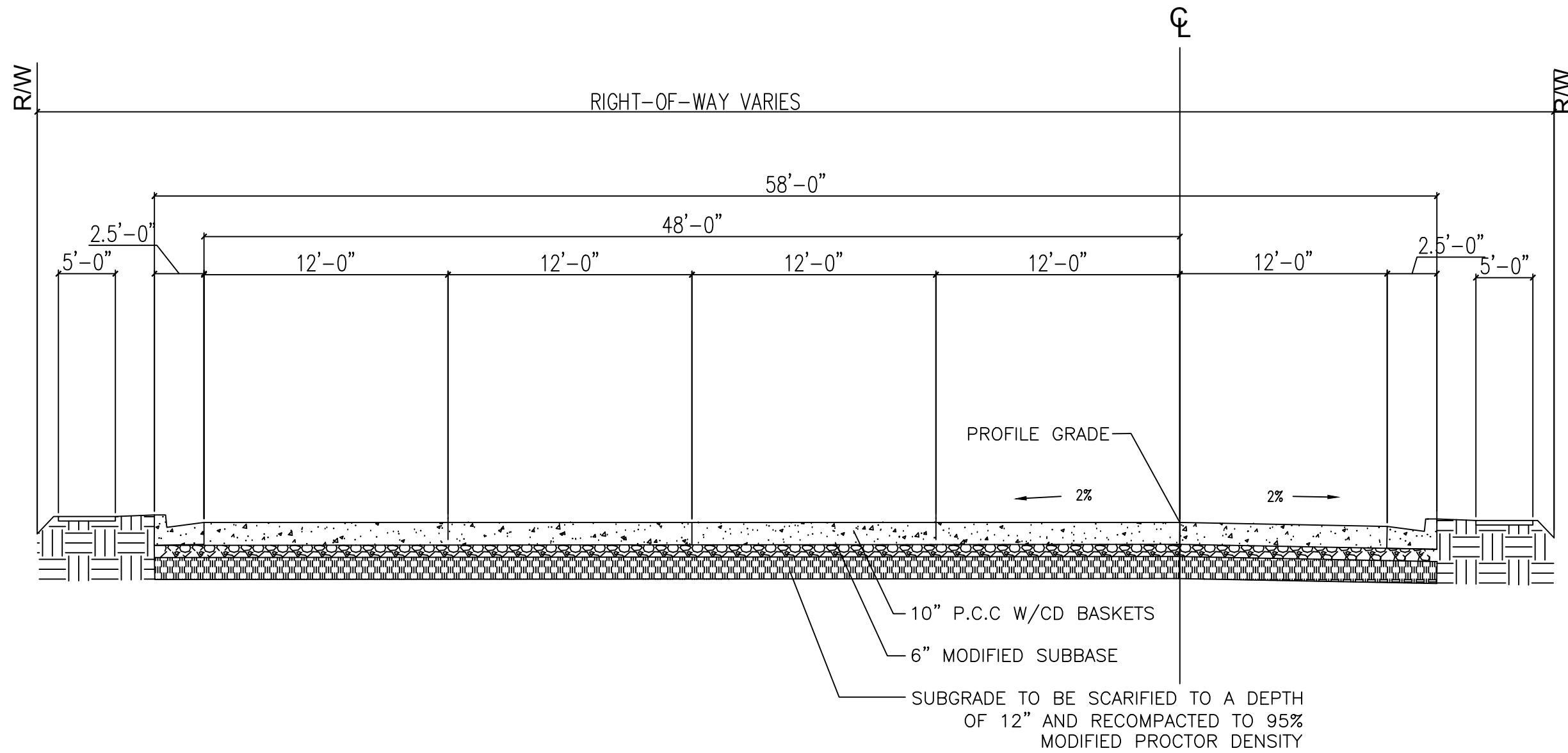


EDUCATIONAL - NOT FOR CONSTRUCTION

RANSHAW WAY & PENN
 INTERSECTION OF RANSHAW WAY &
 PENN ST IN NORTH LIBERTY IOWA

SHEET NAME
 CROSS-SECTION
 A TO B

SHEET NO.
10



TYPICAL ROAD CROSS SECTION (E TO F)

PROJECT:	CEE: 4850
DATE :	03/21/2023
DRAWN BY:	MM
REVISION:	

THE UNIVERSITY OF IOWA
 CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu



EDUCATIONAL - NOT FOR CONSTRUCTION

RANSHAW WAY & PENN
 INTERSECTION OF RANSHAW WAY &
 PENN ST IN NORTH LIBERTY IOWA

SHEET NAME
 CROSS-SECTION
 E TO F

SHEET NO.
11