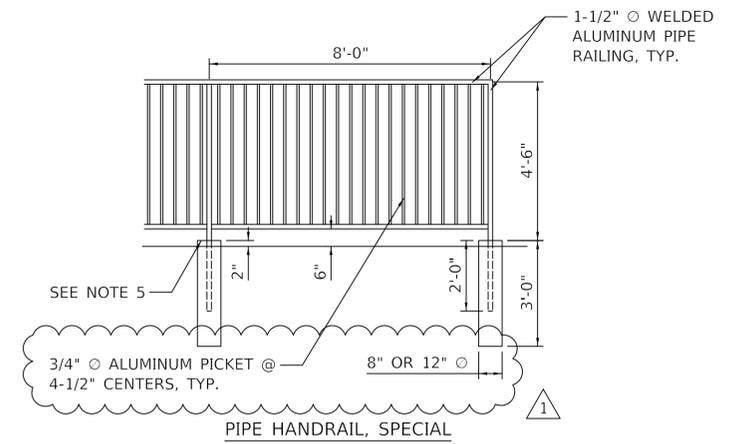
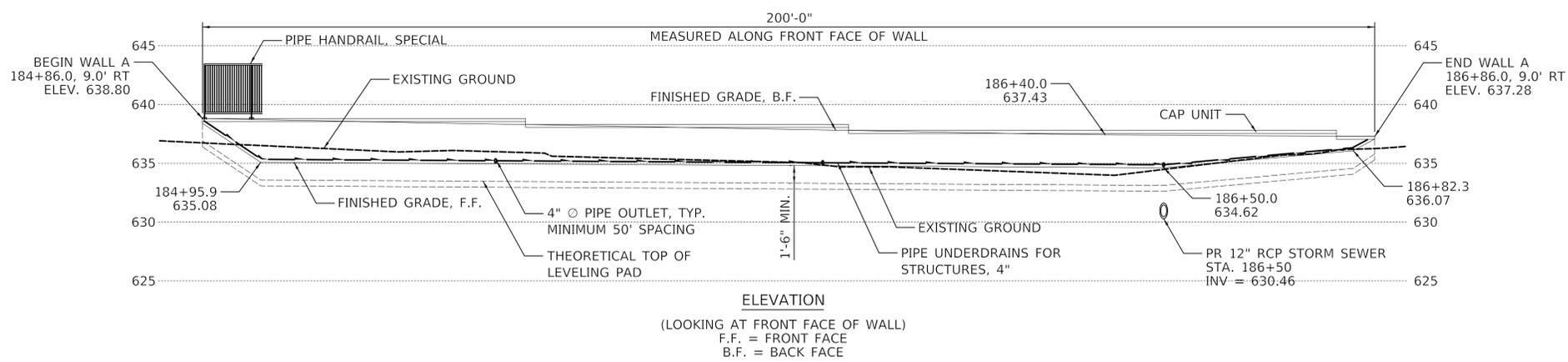


DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
PLAN	
NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
B.M. NOTED	
STRUCTURE NOTATION CHK'D	
PROFILE	
NOTE BOOK NO.	



TOTAL BILL OF MATERIAL

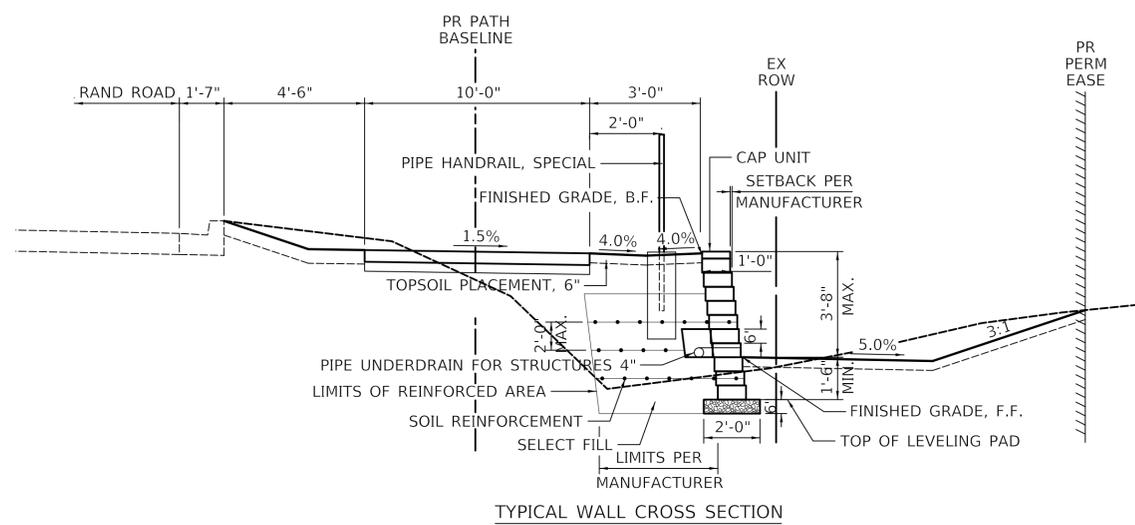
ITEM	UNIT	TOTAL
SEGMENTAL CONCRETE BLOCK WALL	SQ. FT.	874
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	200
PIPE HANDRAIL, SPECIAL	FOOT	200

GENERAL NOTES

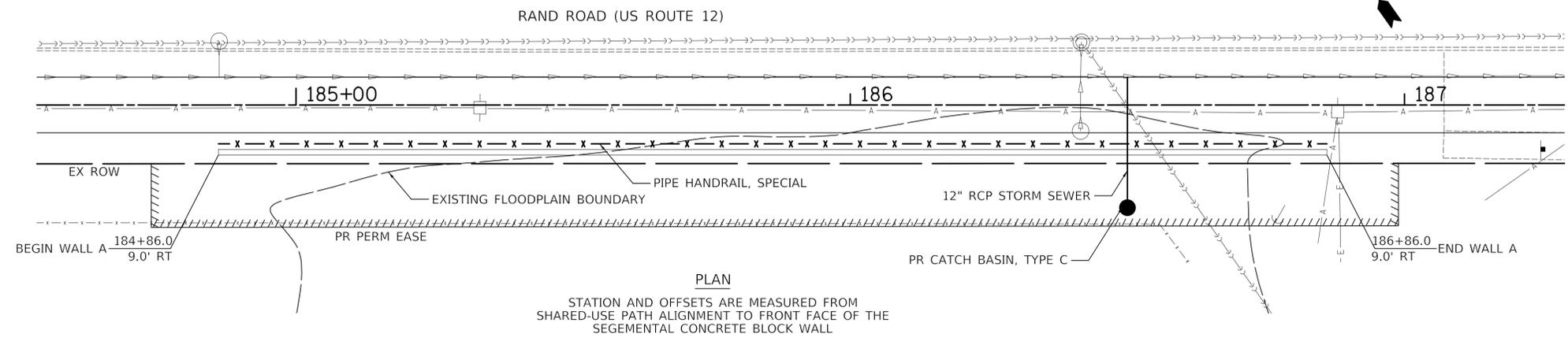
- DESIGN AND INSTALLATION OF SEGMENTAL CONCRETE BLOCK WALL (INCLUDING NEED FOR SOIL REINFORCEMENT) TO BE IN ACCORDANCE WITH WALL SYSTEM MANUFACTURER DESIGN REQUIREMENTS AND SPECIFICATIONS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016.
- EXCAVATION, LEVELING PAD, SELECT FILL, SOIL REINFORCEMENT, AND DESIGN ARE INCLUDED IN THE COST OF SEGMENTAL CONCRETE BLOCK WALL.
- CYLINDRICAL FORMS FOR PIPE HANDRAIL POSTS MUST BE PLACED AS RETAINING WALL IS CONSTRUCTED.
- SOIL REINFORCEMENT TO BE CUT PERPENDICULAR TO WALL FACE AT CENTERLINE OF HANDRAIL FOUNDATIONS.
- MINIMUM REQUIRED ALLOWABLE BEARING PRESSURE = 1,500 PSF.

PIPE HANDRAIL, SPECIAL NOTES

- ALL POSTS AND RAILS SHALL BE FORMED FROM EXTRUDED 6063-T6 ALUMINUM OF 1.5" INSIDE DIAMETER SCHEDULE 40 PIPE SIZE (1.9" OUTSIDE DIAMETER).
- ALL FASTENERS IN THE SYSTEM WILL BE STAINLESS STEEL.
- PIPE HANDRAIL WILL BE FACTORY COATED WITH A BLACK BAKED ON ENAMEL FINISH.
- ALL CONNECTIONS SHALL BE WELDED. NON-WELDED CONNECTIONS SHALL NOT BE USED.
- HANDRAIL POSTS SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING ALTERNATIVES:
 A. EMBED HANDRAIL POSTS INTO 8" DIAMETER FOUNDATIONS
 B. BASE PLATES FASTENED TO 12" DIAMETER FOUNDATIONS WITH FOUR ANCHOR BOLTS*
 *DRILL AND SET 5/8" Ø ANCHOR RODS ACCORDING TO ARTICLE 509.06 OF THE STANDARD SPECIFICATIONS. EMBEDMENT SHALL BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

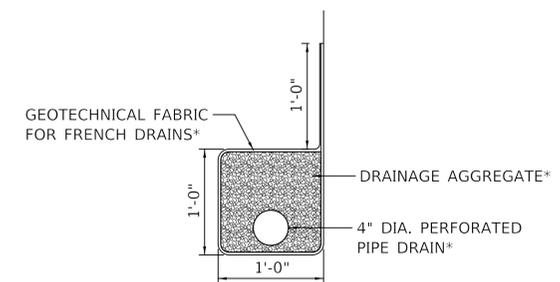


TYPICAL WALL CROSS SECTION



PLAN

STATION AND OFFSETS ARE MEASURED FROM SHARED-USE PATH ALIGNMENT TO FRONT FACE OF THE SEGEMENTAL CONCRETE BLOCK WALL



PIPE UNDERDRAIN DETAIL

* INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR STRUCTURES 4"



Two Pierce Place, Suite 1400
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - BAS	REVISED - 1/2/16/2021
DRAWN - BAS	REVISED -
CHECKED - KRK	REVISED -
DATE - 12/28/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

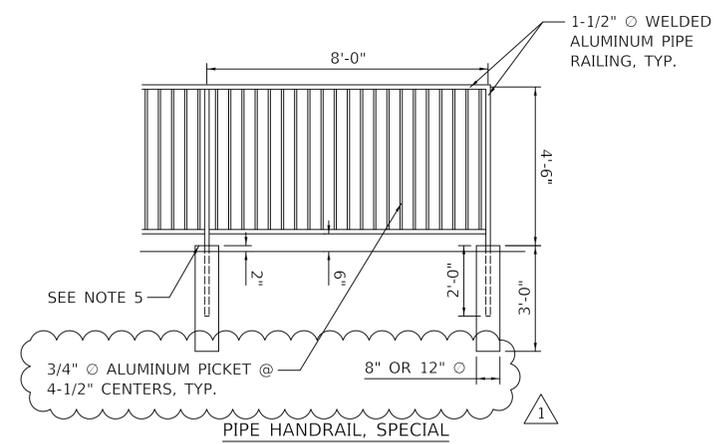
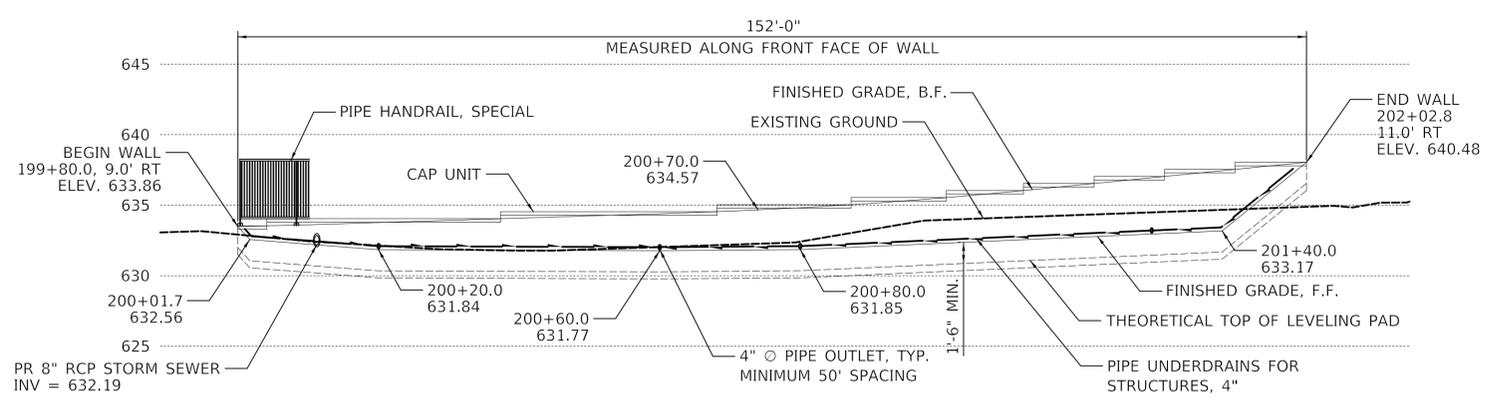
**GENERAL PLAN AND ELEVATION
WALL A**

SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	14-00221-00-BT	COOK	156	81
CONTRACT NO. 61G57				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
RT. OF WAY CHECKED	
NO. OF WAY CHECKED	
CADD FILE NAME	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS CHKD	
PROFILE	
NOTE BOOK	
NO.	



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
SEGMENTAL CONCRETE BLOCK WALL	SQ. FT.	638
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	152
PIPE HANDRAIL, SPECIAL	FOOT	152

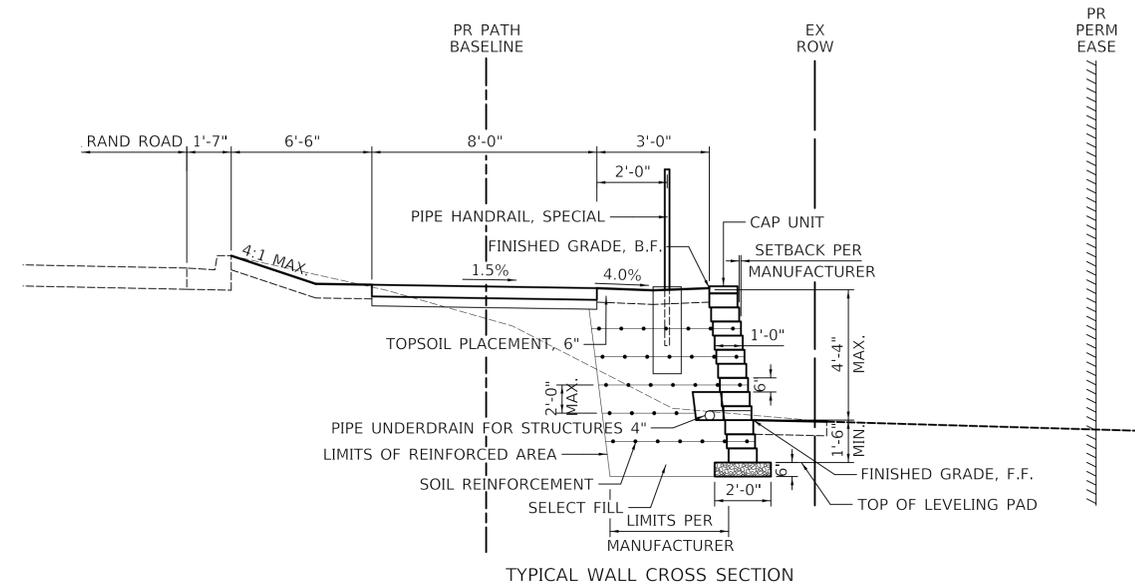
ELEVATION
(LOOKING AT FRONT FACE OF WALL)
F.F. = FRONT FACE
B.F. = BACK FACE

GENERAL NOTES

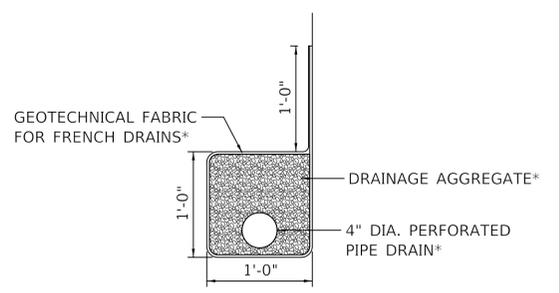
- DESIGN AND INSTALLATION OF SEGMENTAL CONCRETE BLOCK WALL (INCLUDING NEED FOR SOIL REINFORCEMENT) TO BE IN ACCORDANCE WITH WALL SYSTEM MANUFACTURER DESIGN REQUIREMENTS AND SPECIFICATIONS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016.
- EXCAVATION, LEVELING PAD, SELECT FILL, SOIL REINFORCEMENT, AND DESIGN ARE INCLUDED IN THE COST OF SEGMENTAL CONCRETE BLOCK WALL.
- CYLINDRICAL FORMS FOR PIPE HANDRAIL POSTS MUST BE PLACED AS RETAINING WALL IS CONSTRUCTED.
- SOIL REINFORCEMENT TO BE CUT PERPENDICULAR TO WALL FACE AT CENTERLINE OF HANDRAIL FOUNDATIONS.
- MINIMUM REQUIRED ALLOWABLE BEARING PRESSURE = 1,500 PSF.

PIPE HANDRAIL, SPECIAL NOTES

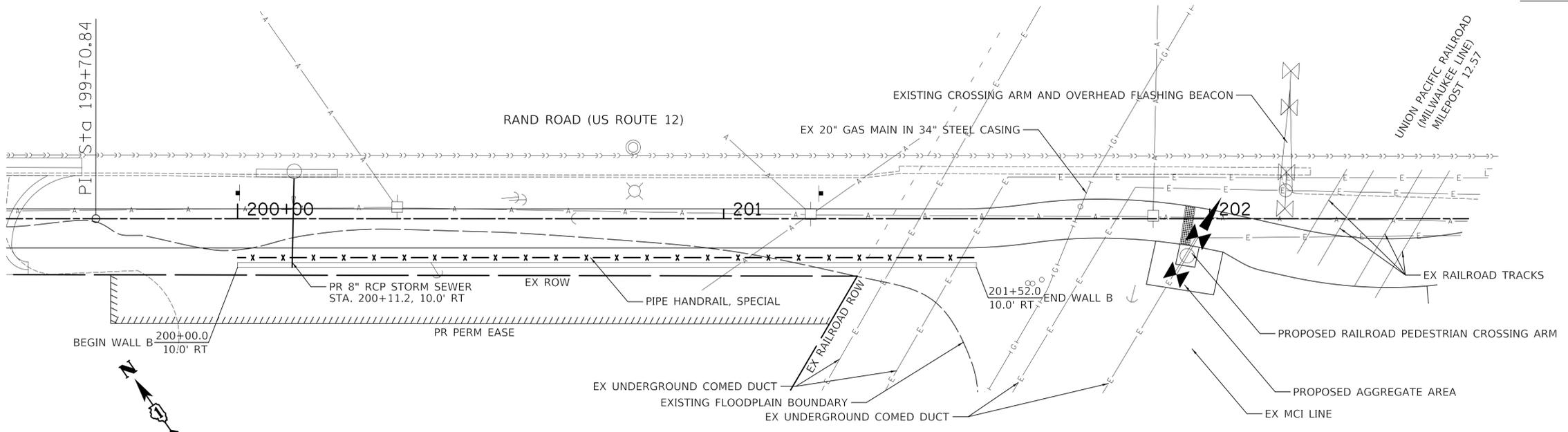
- ALL POSTS AND RAILS SHALL BE FORMED FROM EXTRUDED 6063-T6 ALUMINUM OF 1.5" INSIDE DIAMETER SCHEDULE 40 PIPE SIZE (1.9" OUTSIDE DIAMETER).
- ALL FASTENERS IN THE SYSTEM WILL BE STAINLESS STEEL.
- PIPE HANDRAIL WILL BE FACTORY COATED WITH A BLACK BAKED ON ENAMEL FINISH.
- ALL CONNECTIONS SHALL BE WELDED. NON-WELDED CONNECTIONS SHALL NOT BE USED.
- HANDRAIL POSTS SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING ALTERNATIVES:
A. EMBED HANDRAIL POSTS INTO 8" DIAMETER FOUNDATIONS
B. BASE PLATES FASTENED TO 12" DIAMETER FOUNDATIONS WITH FOUR ANCHOR BOLTS*
*DRILL AND SET 5/8" Ø ANCHOR RODS ACCORDING TO ARTICLE 509.06 OF THE STANDARD SPECIFICATIONS. EMBEDMENT SHALL BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.



TYPICAL WALL CROSS SECTION



PIPE UNDERDRAIN DETAIL
* INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR STRUCTURES 4"



PLAN
STATION AND OFFSETS ARE MEASURED FROM SHARED-USE PATH ALIGNMENT TO FRONT FACE OF THE SEGMENTAL CONCRETE BLOCK WALL



Two Pierce Place, Suite 1400
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - BAS	REVISED - 1 2/16/2021
DRAWN - BAS	REVISED -
CHECKED - KRK	REVISED -
DATE - 12/28/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

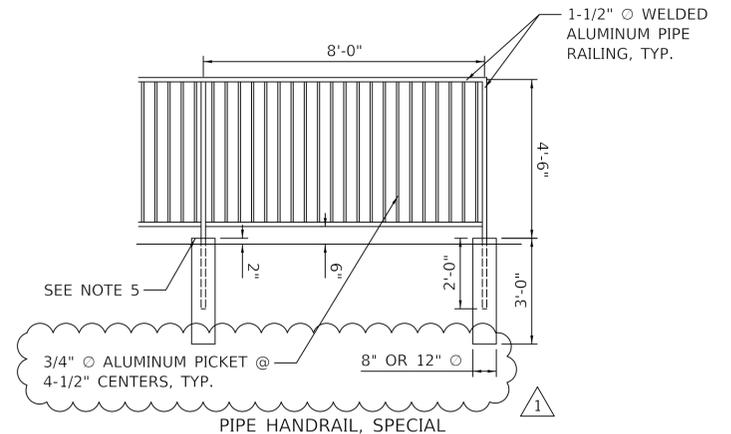
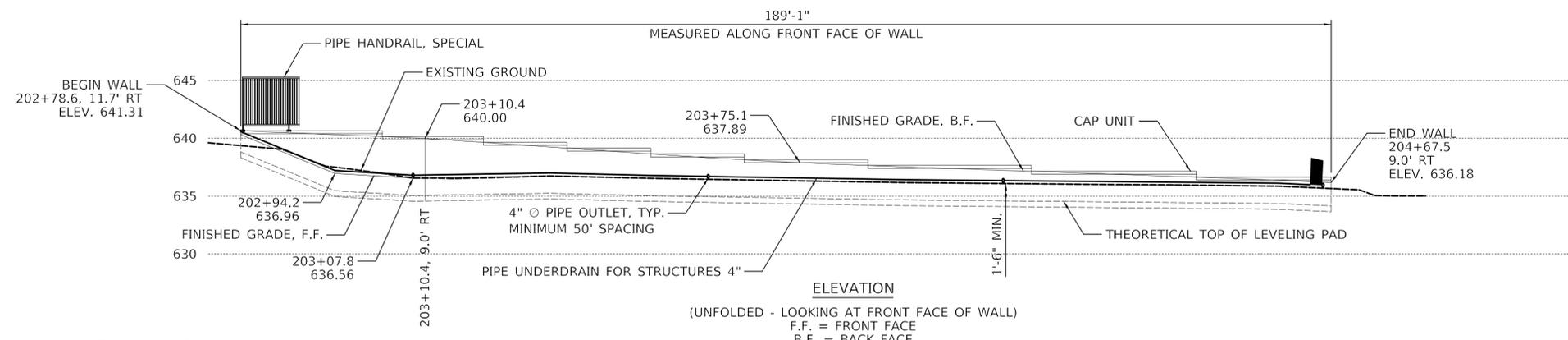
**GENERAL PLAN AND ELEVATION
WALL B**

SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	14-00221-00-BT	COOK	156	82
CONTRACT NO. 61G57				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
B.M. NOTED	
STRUCTURE NOTATION CHKD	
NO.	



TOTAL BILL OF MATERIAL

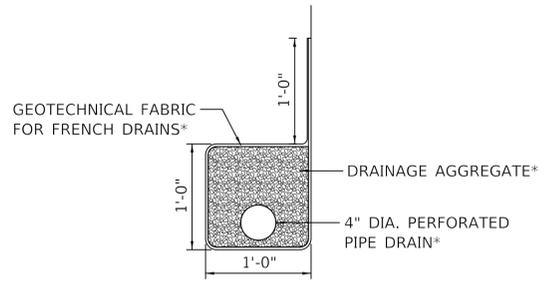
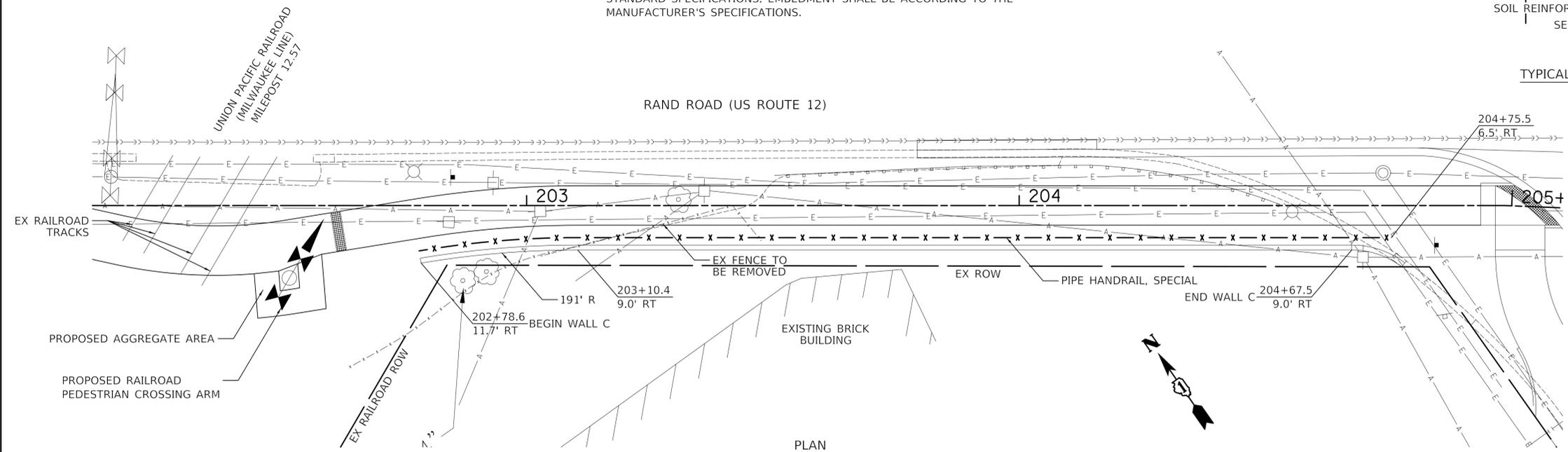
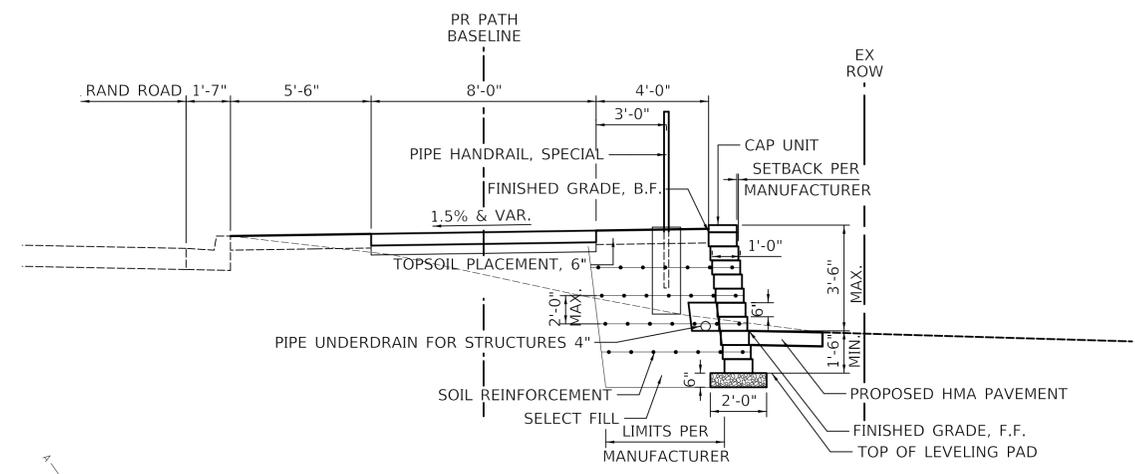
ITEM	UNIT	TOTAL
SEGMENTAL CONCRETE BLOCK WALL	SQ. FT.	612
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	189
PIPE HANDRAIL, SPECIAL	FOOT	198

GENERAL NOTES

- DESIGN AND INSTALLATION OF SEGMENTAL CONCRETE BLOCK WALL (INCLUDING NEED FOR SOIL REINFORCEMENT) TO BE IN ACCORDANCE WITH WALL SYSTEM MANUFACTURER DESIGN REQUIREMENTS AND SPECIFICATIONS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016.
- EXCAVATION, LEVELING PAD, SELECT FILL, SOIL REINFORCEMENT, AND DESIGN ARE INCLUDED IN THE COST OF SEGMENTAL CONCRETE BLOCK WALL.
- CYLINDRICAL FORMS FOR PIPE HANDRAIL POSTS MUST BE PLACED AS RETAINING WALL IS CONSTRUCTED.
- SOIL REINFORCEMENT TO BE CUT PERPENDICULAR TO WALL FACE AT CENTERLINE OF HANDRAIL FOUNDATIONS.
- MINIMUM REQUIRED ALLOWABLE BEARING PRESSURE = 1,500 PSF.

PIPE HANDRAIL, SPECIAL NOTES

- ALL POSTS AND RAILS SHALL BE FORMED FROM EXTRUDED 6063-T6 ALUMINUM OF 1.5" INSIDE DIAMETER SCHEDULE 40 PIPE SIZE (1.9" OUTSIDE DIAMETER).
- ALL FASTENERS IN THE SYSTEM WILL BE STAINLESS STEEL.
- PIPE HANDRAIL WILL BE FACTORY COATED WITH A BLACK BAKED ON ENAMEL FINISH.
- ALL CONNECTIONS SHALL BE WELDED. NON-WELDED CONNECTIONS SHALL NOT BE USED.
- HANDRAIL POSTS SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING ALTERNATIVES:
 A. EMBED HANDRAIL POSTS INTO 8" DIAMETER FOUNDATIONS
 B. BASE PLATES FASTENED TO 12" DIAMETER FOUNDATIONS WITH FOUR ANCHOR BOLTS*
 *DRILL AND SET 5/8" O ANCHOR RODS ACCORDING TO ARTICLE 509.06 OF THE STANDARD SPECIFICATIONS. EMBEDMENT SHALL BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.



* INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR STRUCTURES 4"

STATION AND OFFSETS ARE MEASURED FROM SHARED-USE PATH ALIGNMENT TO FRONT FACE OF THE SEGEMENTAL CONCRETE BLOCK WALL



Two Pierce Place, Suite 1400
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED - BAS	REVISED - 1 2/16/2021
DRAWN - BAS	REVISED -
CHECKED - KRK	REVISED -
DATE - 12/28/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
 WALL C**

SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	14-00221-00-BT	COOK	156	83
CONTRACT NO. 61G57				
ILLINOIS FED. AID PROJECT				