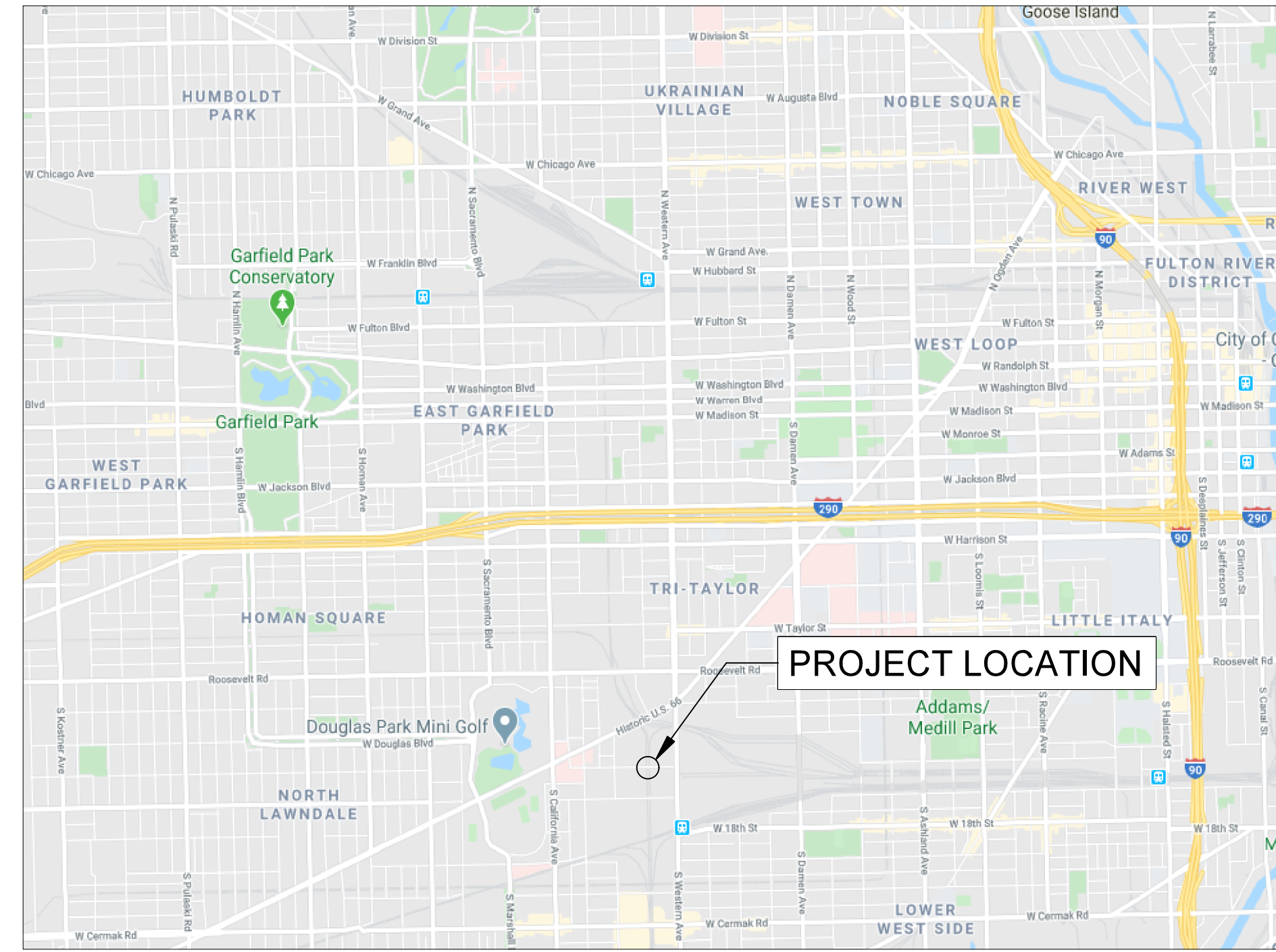
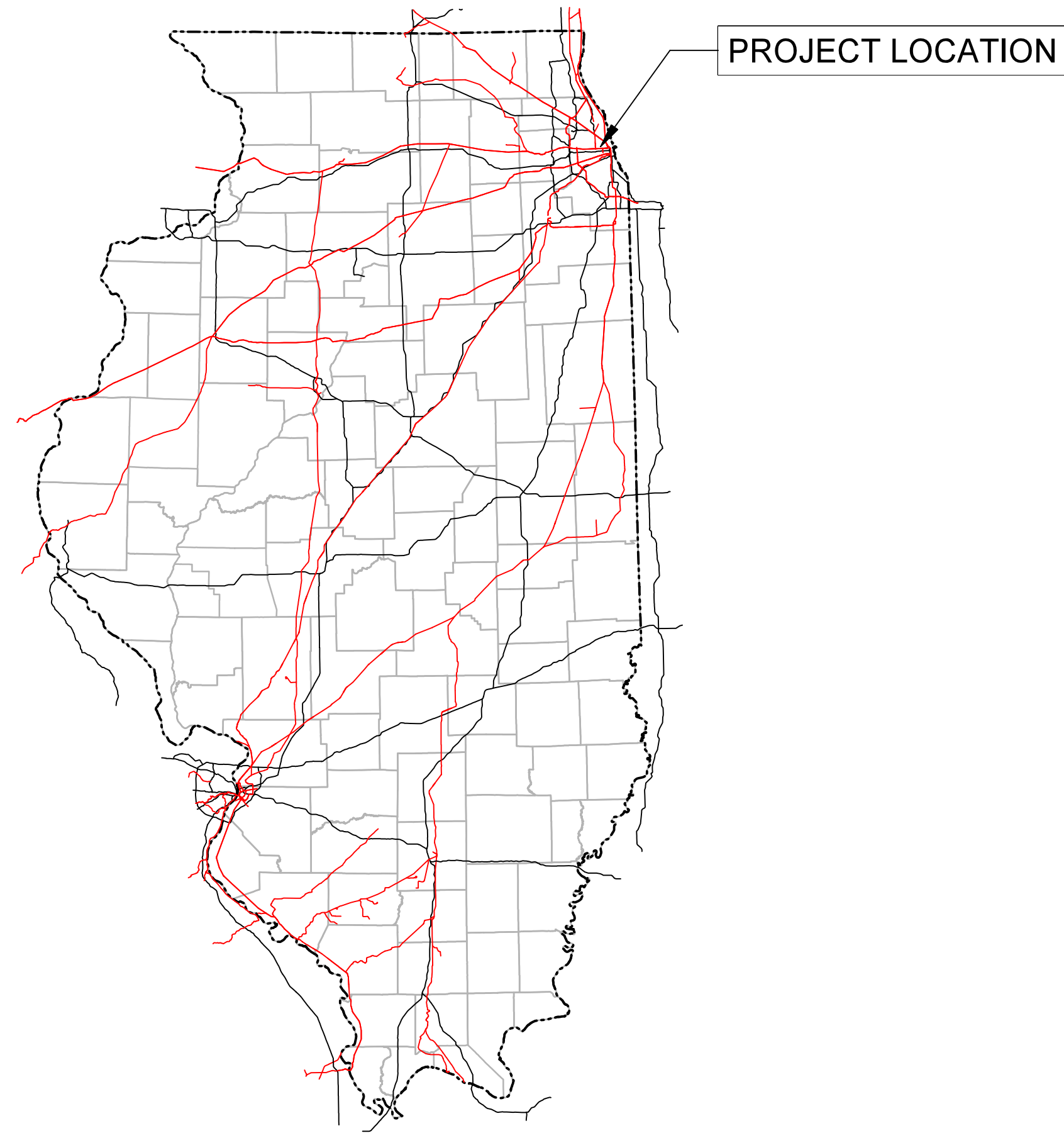




# ENGINEERING DESIGN & CONSTRUCTION



**2519 W 15TH ST  
CHICAGO, IL**

*Project Location Map*

**LE** LIN ENGINEERING, LTD.  
Consulting Engineers  
Westmont, Illinois

**benesch**  
engineers · scientists · planners  
Alfred Benesch & Company  
35 W. Wacker Drive, Suite 3300  
Chicago, IL 60601  
312-565-0450

**BK-309.50, UW-5.09, DC-29.77  
ROCKWELL SUB.**

**UNION PACIFIC RAILROAD VIADUCT CLOSURE  
15TH ST BRIDGE REMOVAL**

**FINAL PLANS**

**CREATE PROJECT #:  
WA1-UP-XXB-003-B-FE**

WORK ORDER: 31876  
PROJECT NUMBER: N/A  
BUDGET REFERENCE: N/A

**LAST REVISED  
May 28, 2021**

**PROJECT INDEX**

**PROJECT DESIGN**

**DESCRIPTION**

**BILL OF MATERIAL TABLE INDEX**

**BILL OF MATERIAL**

**LOCATION**

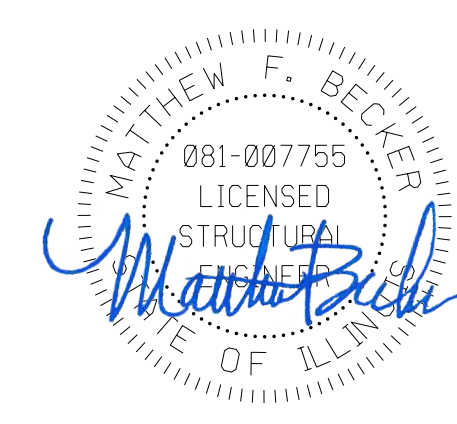
G-001	COVER SHEET WITH VICINITY MAP
G-002	PROJECT INDEX & REVISION SHEET
G-003	GENERAL NOTES & PROJECT CONTACTS
G-004	ABBREVIATIONS & LEGEND
G-005	CONTROL POINTS & ROADWAY GEOMETRY
R-001	ROADWAY EX. CONDITIONS & REMOVAL PLAN
R-002	ROADWAY PROPOSED PLAN
R-003	ROADWAY DETAILS
R-004	ROADWAY DETAILS
R-005	ROADWAY DETAILS
R-006	SEWER PLAN & PROFILE
R-007	WATERMAIN PLAN & PROFILE
R-008	WATERMAIN DETAILS
R-009	WATERMAIN DETAILS
R-010	WATERMAIN DETAILS
R-011	SEWER CONSTRUCTION DETAILS
R-012	SEWER CONSTRUCTION DETAILS
R-013	SEWER CONSTRUCTION DETAILS
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R-015	SEWER CONSTRUCTION DETAILS
R-016	IDOT HIGHWAY STANDARD
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R-019	IDOT HIGHWAY STANDARD
R-020	IDOT HIGHWAY STANDARD
T-001	RAILROAD TYPICAL SECTION
T-002	ROADWAY TYPICAL SECTION
T-003	ROADWAY TYPICAL SECTION
S-001	STRUCTURAL REMOVAL DETAILS

ROADWAY REMOVAL	R-001
ELECTRICAL	R-001
ROADWAY RESTORATION	R-002, R-006, R-007

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 5/27/2021



EXPIRATION DATE: 11-30-2021  
 DATE: 05-28-2021  
 (ELECTRICAL SHEETS)



EXPIRATION DATE: 11-30-2022  
 DATE: 05-28-2021  
 (STRUCTURAL SHEETS)



EXPIRATION DATE: 11-30-2021  
 DATE: 05-28-2021  
 (CIVIL ROADWAY SHEETS)

**WARNING !**  
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**ISSUED FOR**  
**CONSTRUCTION**

REVISION	BY	DATE	DESCRIPTION



DRAWN BY:	RC
CHECKED BY:	ST
DATE:	5/28/21
SCALE:	N.T.S
WORK ORDER:	31876
PID:	
BUDGET REF:	
SHEET NUMBER:	G-002

<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION: CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL	
SHEET TITLE: PROJECT INDEX & REVISION SHEET	

**GENERAL NOTES**

- UPRR forces will perform all track work, with the exception of removal of existing tracks. UPRR will cut the existing rails and the contractor shall remove and dispose of all track material with the bridge removal work. The Contractor will be responsible for constructing proposed track bed up to the top of the sub-ballast layer. UPRR will furnish & install all ballast, ties, rail, and other track materials.
- Existing and new track within the project limits will be surfaced and lined by UPRR forces once all other work is complete.
- Contractors shall notify Service Alert, (800) 642-2444, UPRR Fiber Optics Hotline (800) 336-9193, and the Chicago Utility Alert Network (312) 744-7000 48 hours prior to any excavation. The USA Authorization Numbers shall be kept at the job site.
- No work whatsoever shall be commenced without first notifying the UPRR Engineer.
- The Contractor shall comply with all Federal, State, County, and City Laws and Ordinances and Regulations of the Department of Industrial Relations, OSHA, NPDES and Industrial Accident Commission related to the safety and character of the work, equipment and labor personnel.
- Contractor shall be responsible for coordinating with all Utility agencies.
- Contractor shall protect in place (by any means necessary) all existing utilities to remain unless otherwise specified herein, contractor shall be responsible for the complete repair at his expense, for any damage to existing utilities, structures, or other site features, as a result of his work.
- Prior to placing curbs, pavements, base, subbase, track, etc., all underground utilities shall be installed, backfill completed, and the Engineer notified by each of the utility companies having facilities within the work area, that the utility installation has satisfactorily passed acceptance tests.
- All existing underground utilities within the UPRR ROW, that are not to be re-used shall be abandoned in place. All existing pipelines to be abandoned in place shall be cement slurry filled and capped at least 3'-0" below top of proposed subgrade.
- Contractor shall verify locations and elevations of existing utilities whether known or unknown prior to beginning construction.
- Any underground structures such as cesspools, cisterns, mining shafts, tunnels, septic tanks, wells, and pipelines not located prior to construction shall be brought to the attention of the engineer for determination of appropriate action such as removal or treatment in a manner judged suitable to the engineer.
- Contractor shall coordinate location of all proposed utilities with UPRR to assure accuracy of utility connections and compliance with local codes.
- Any existing conditions found to be a variance with these drawings must be immediately reported to the Engineer.
- Contractor shall maintain and clean to the satisfaction of the Engineer, all access and service roads used during construction.
- Contractor shall perform all construction in such a manner as to protect adjacent existing buildings, and other site elements which are to remain in service.
- Contractor shall provide As-built Drawings for all improvements.
- No field changes will be permitted without direct written authorization from the UPRR Engineer or his representative.

- Contractor shall coordinate work which affects adjacent property owners. Any questions or agreements between adjacent property owners and contractor shall be made in writing. A copy of such agreement shall be provided to the UPRR Engineer or his representative.
- The contractor is responsible for preparing a Stormwater Pollution Prevention Plan (SWPPP) to comply with State regulations.
- Right-of-way lines shown on the plans were taken from existing UPRR right-of-way map and are approximate.
- Match lines for sheets are based on the existing Main Line stationing unless otherwise specified.
- Track laying, ballasting, and installation of road crossing panels will be done by UPRR unless otherwise stated.
- The contractor is responsible for the removal of all pavement markings that will be in conflict with the proposed work.
- Contractor shall comply with all IDOT specifications for construction of public improvements requirements.
- Contractor shall maintain at least one access to all affected business. If necessary, multiphase construction shall be utilized.
- All work must be coordinated with the UPRR to minimize track outage time and disruption of train service. The contractor shall submit for approval his proposed sequence of operations prior to the start of construction.
- Removal of existing viaduct lighting equipment will be performed by the City of Chicago, Department of Streets and Sanitation, Bureau of Electric. The contractor must schedule and coordinate this work with the city. All expenses or charges by the city related to this work will be incidental to this contract.
- The contractor shall take special care to avoid damage to the existing utilities under the public streets from excessive surface loads during construction activities. Video inspection of the existing sewer shall be performed before and after construction in accordance with the requirements of the City of Chicago Department of Water Management. Any damage to the existing utilities caused by work under this contract must be repaired or replaced at the contractor's expense.
- All frames and lids removed from abandoned sewers and appurtenances must be returned to the Chicago Department of Water Management, Sewer Section.
- In case of damage to the City of Chicago sewers, private and public drains, sewer structures and/or bench monuments, the contractor shall immediately contact the Department of Water Management at (312) 747-7892 or (312) 747-7893.
- Stockpiling of removed materials and/or construction debris on the job site will not be permitted and shall be removed from the job site each and every day and disposed of in accordance with article 202.03 of the Standard Specifications. Failure to comply with this requirement shall be considered a traffic control deficiency and will be subject to charges in accordance with the item Traffic Control Complete.
- The contractor must notify the Department of Streets and Sanitation at 312-746-4524 72 hours prior to the need for towing/relocation of vehicles. The City of Chicago will be responsible for removing parked vehicles located in the scheduled work area. Signs preventing parking will be posted by the commissioner or his staff 72 hours before the work is scheduled. Prior to posting signs the commissioner shall notify the Alderman's office of the resurfacing schedule. The police are to be present to issue tickets and supervise towing prior to the relocation of vehicles.
- In the event that the work to be performed on a street segment where parking has been prohibited will be postponed for 5 working days or more, the contractor must notify the commissioner to remove the "No Parking" signs and advise the commissioner when the work will resume for the commissioner or his staff to re-post the "No Parking" signs 48 hours prior to resumption of work.
- The contractor will not be allowed to set up a yard or field office on city or state property without written permission from IDOT or the City of Chicago.
- The contractor is to restore all unpaved areas damaged during construction operations to their original condition at no additional cost to the city or railroad.
- The contractor shall provide access to abutting property at all times during the construction of this project, except for periods of short duration.
- Dimensions: it shall be the contractor's responsibility to verify all dimensions and conditions existing in the field prior to ordering materials and beginning of construction.
- Station and offsets given for proposed catch basins are to the center of the lid. Adjust the base as necessary to connect to existing sewer.
- The Contractor is responsible for obtaining all permits (including payment of permit fees), bonds and insurance for permits required by the City of Chicago for construction of the project. This includes permits issued by the Department of Transportation, Department of Water Management, and others.
- The Contractor is responsible to coordinate work for the project. CDOT will complete water main replacement, lighting removal and some roadway work before Contractor begins. CDOT will also complete work after Contractor work is completed. Any new CDOT roadway work shall be protected by Contractor. Any damage of this new CDOT work must be repaired at the expense of the Contractor.
- The Contractor shall install posted clearance sign for proposed bridge. Contractor shall coordinate with City of Chicago regarding the clearance to be posted, sign type and sign location. The furnishing and installation of vertical clearance signs is considered incidental to the project work.

**PROJECT CONTACTS**

CONTACT	PHONE NUMBER	UPRR
Curt Nystron	(515) 298-1131	Construction Field Manager
Adam Studts	(402) 544-3541	Structures Design Sr. Manager
Paul Pino	(402) 544-3582	Information Technology - Fiber
Stan Dulinski	(402) 544-0353	Real Estate - Utilities

**PHONE NUMBER**

- (800) 336-9193
- (888) 258-0808
- (888) 877-7267

**GENERAL**

- CALL UPRR BEFORE YOU DIG
- CALL BEFORE YOU DIG (NATIONAL DIRECTORY)
- UPRR Response Management Communications Center (RMCC)

**DESIGN CRITERIA**

- UPRR Standard Plans and Specifications
- Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction
- Chicago Department of Transportation (CDOT) Regulations for Openings, Construction and Repair in the Public Way

**SURVEY NOTES**

- Railroad stationing for project profiles and alignments is based on stations established for chord definition spiraled curves at the centerline of the existing UPRR Main Line unless otherwise noted.
- The contractor is responsible for the preservation of all survey control monuments. In the event monuments are damaged or destroyed by the contractor, the Engineer will replace the monument solely at the contractor's expense.

**TRAFFIC NOTES**

- All barricades, warning signs, lights, devices, etc. for the guidance of vehicle traffic and pedestrians must conform to the Manual on Uniform Traffic Control Devices (MUTCD), current edition, IDOT and CDOT standards.
- The contractor will ensure that all barricades, signs, lights, and other devices installed by him are operational every day, including Sundays and holidays. The contractor shall make twice daily inspections of barricades, signs, lights and other devices installed by him to ensure proper placement and functioning of warning devices. In the event of severe weather conditions, the contractor must furnish any additional personnel required to properly maintain all traffic control devices. The contractor shall provide a manned 24-hour / 7 day a week contact number to respond to requestrequests and emergencies related to the placement and maintenance of the traffic control devices throughout the project duration.
- The contractor is responsible for the prompt replacement and/or repair of all traffic control devices and appurtenances damaged or disturbed due to construction.

**BENCHMARKS**

City of Chicago Benchmark: BM #276  
6.4 feet north of south line of W Congress Parkway and 47.1 feet east of east line of S Washtenaw Avenue. Elev. = 14.66 (CCD)

	DATUM
HORIZONTAL	Illinois East State Plane (1201) North American Datum of 1983 (NAD83)
VERTICAL	Chicago City Datum (CCD)

REVISION	BY	DATE	DESCRIPTION

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**ISSUED FOR**  
**CONSTRUCTION**



DRAWN BY: RC	WORK ORDER: 31876
CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER G-003

<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION: CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL	
SHEET TITLE: GENERAL NOTES & PROJECT CONTACTS	

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5/27/2021

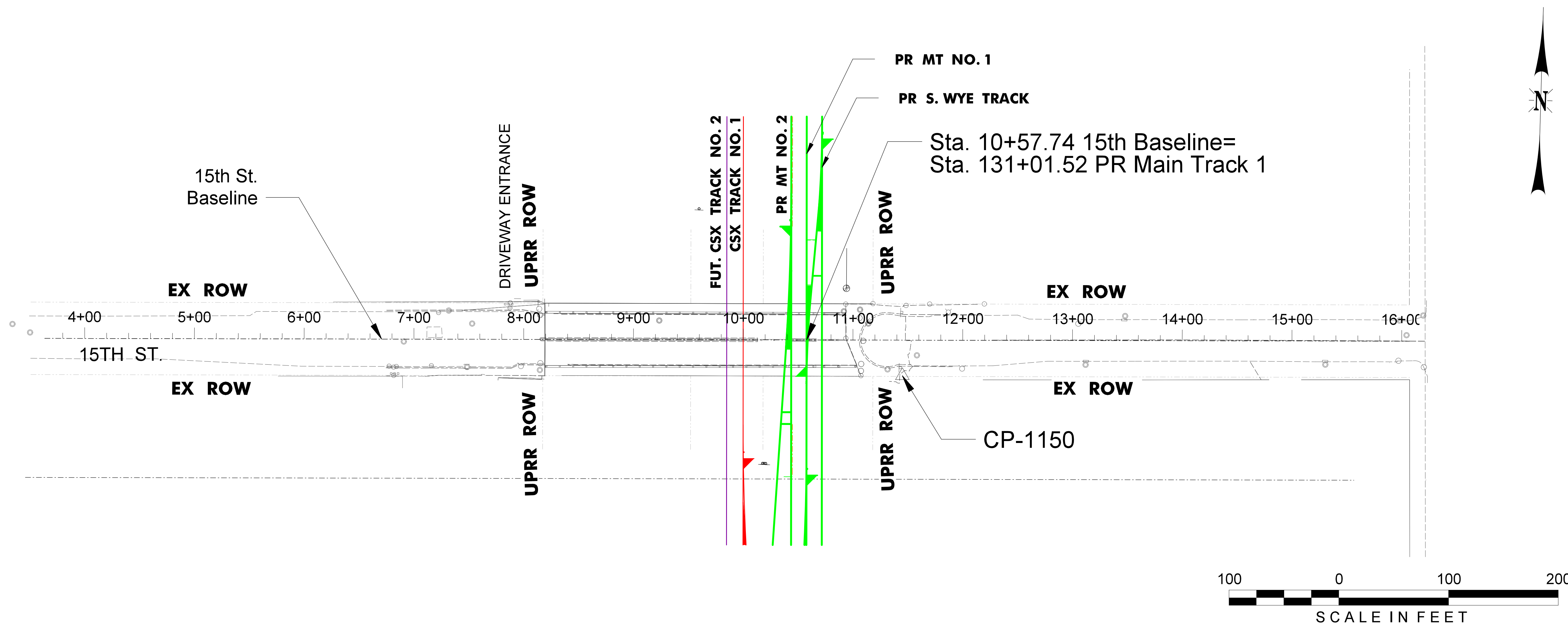


### Control Points

Control Point No.	Northing	Easting	Elevation	Description
1150	1892627.17	1160110.14	10.63	-

### EXISTING 15TH BASELINE

STATION	Northing	Easting
4+00	1892640.13	1159364.51
16+00	1892671.30	1160504.11

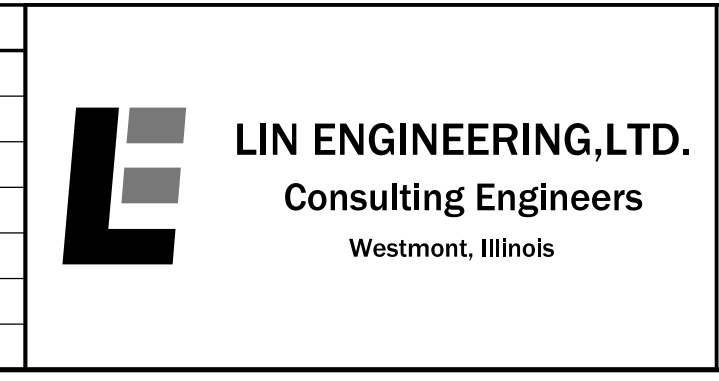


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 5/27/2021

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 CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION



DRAWN BY: RC	WORK ORDER: 31876
CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: 1"=100'	SHEET NUMBER: G-005

**UNION PACIFIC RAILROAD** Director Structures Design




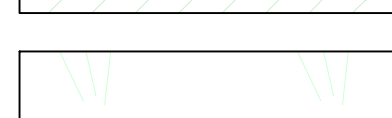

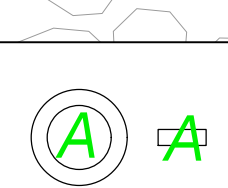
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 ROCKWELL SUB / UPRR VIADUCT CLOSURE  
 15TH ST STRUCTURE REMOVAL

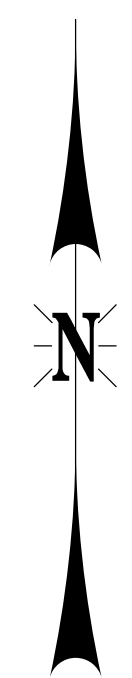
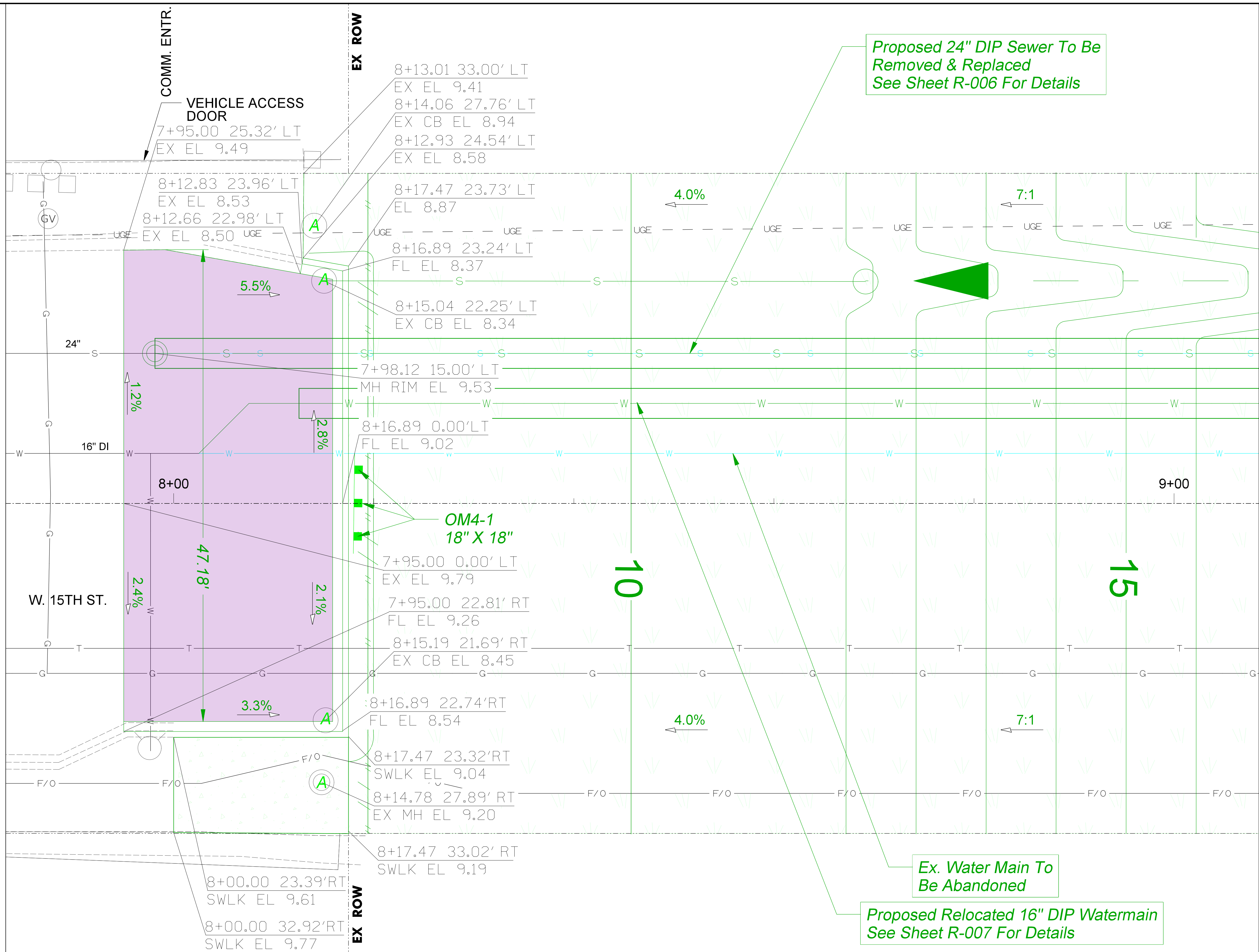
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**LEGEND**

-  Full Depth Pavement
-  PCC Sidewalk, 5"
-  Depressed Curb & Gutter
-  Sodding and Topsoil
-  Railroad Subballast
-  Lid or Inlet To Be Adjusted



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**ISSUED FOR**  
**CONSTRUCTION**

REVISION	BY	DATE	DESCRIPTION




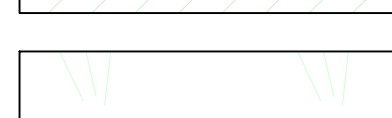




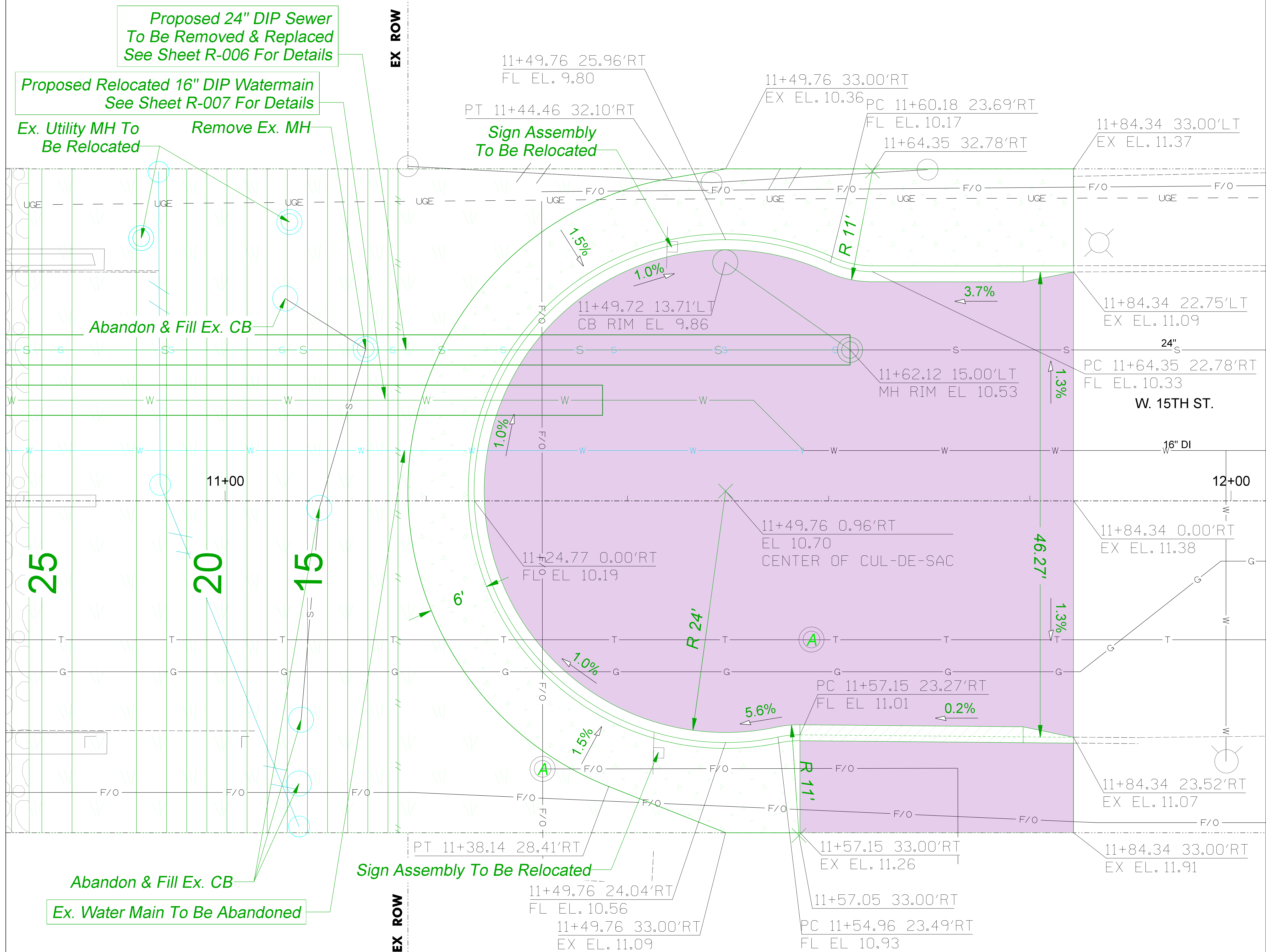
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<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION: CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL	
SHEET TITLE: ROADWAY DETAILS	

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 5/27/2021

**LEGEND**

-  Full Depth Pavement
-  PCC Sidewalk, 5"
-  Depressed Curb & Gutter
-  Sodding and Topsoil
-  Railroad Subballast
-  Lid or Inlet To Be Adjusted



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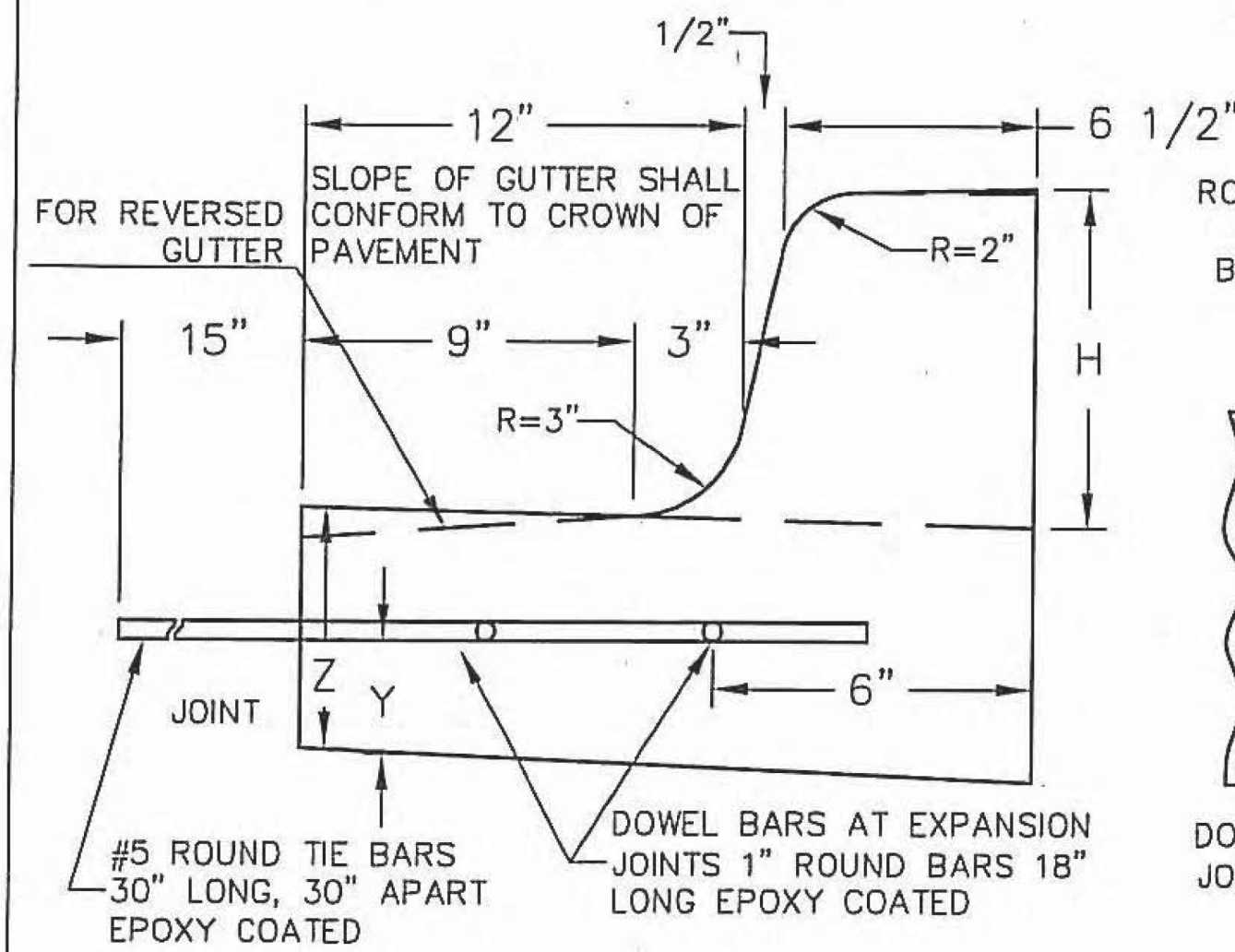
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	SHEET TITLE: ROADWAY DETAILS

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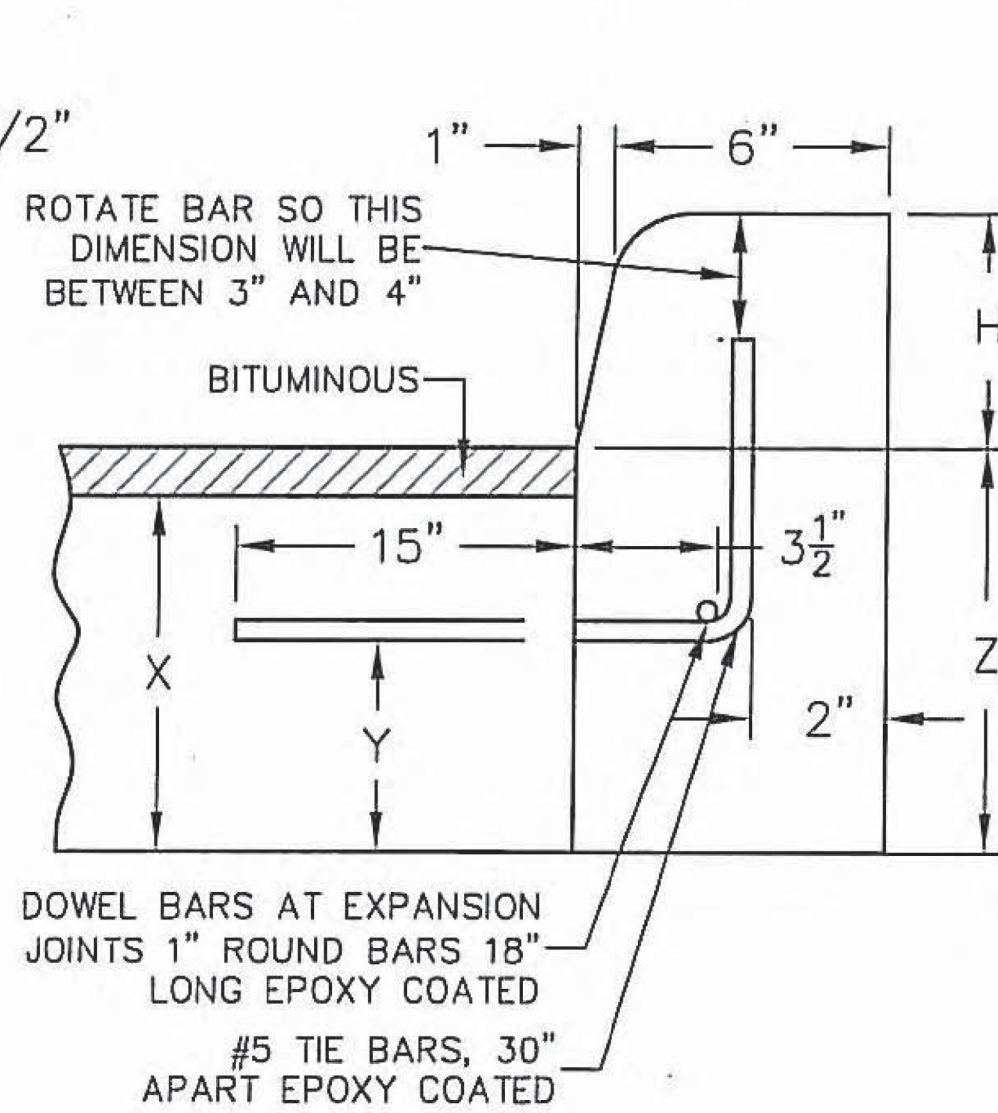
**P.C. CONCRETE CURB & GUTTER**

NOTE: H = VARIABLE 3" TO 9"  
 X = THICKNESS OF PAVEMENT  
 Y = ONE HALF THE THICKNESS OF CONCRETE PAVEMENT OR CONCRETE BASE.  
 Z = 10" OR THICKNESS OF PAVEMENT - WHICHEVER IS GREATER

**TYPE BV. 12 OR TYPE 3 CURB & GUTTER**



**TYPE B OR TYPE 4 CURB BARRIER CURB**



**JOINTS IN CURB, COMBINED CURB & GUTTER**

TRANSVERSE JOINTS OF A TYPE SIMILAR TO THAT USED IN THE ADJACENT PAVEMENT SHALL BE INSTALLED IN THE CURB, GUTTER AND COMBINED CURB & GUTTER IN PROLONGATION WITH THE JOINTS IN THE PAVEMENT. THE DETAILS OF THE TRANSVERSE JOINTS IN THE CURB, GUTTER AND COMBINED CURB & GUTTER SHALL BE APPROVED BY THE COMMISSIONER. CURB, GUTTER OR COMBINED CURB & GUTTER IS CONSTRUCTED ADJACENT TO A FLEXIBLE BASE PAVEMENT, 1" THICK EXPANSION JOINTS COMPOSED OF BITUMINOUS PERFORMED JOINT FILLER SHALL BE INSTALLED IN THE CURB AND/OR GUTTER AT POINTS OF CURVATURE AND AT CONSTRUCTION JOINTS. CONTRACTION JOINTS SHALL ALSO BE PLACED BETWEEN THESE EXPANSION JOINTS AT DISTANCES NOT EXCEEDING 20 FEET. ALL TIE BARS SHALL BE DEFORMED-ALL DOWEL BARS SHALL BE SMOOTH.

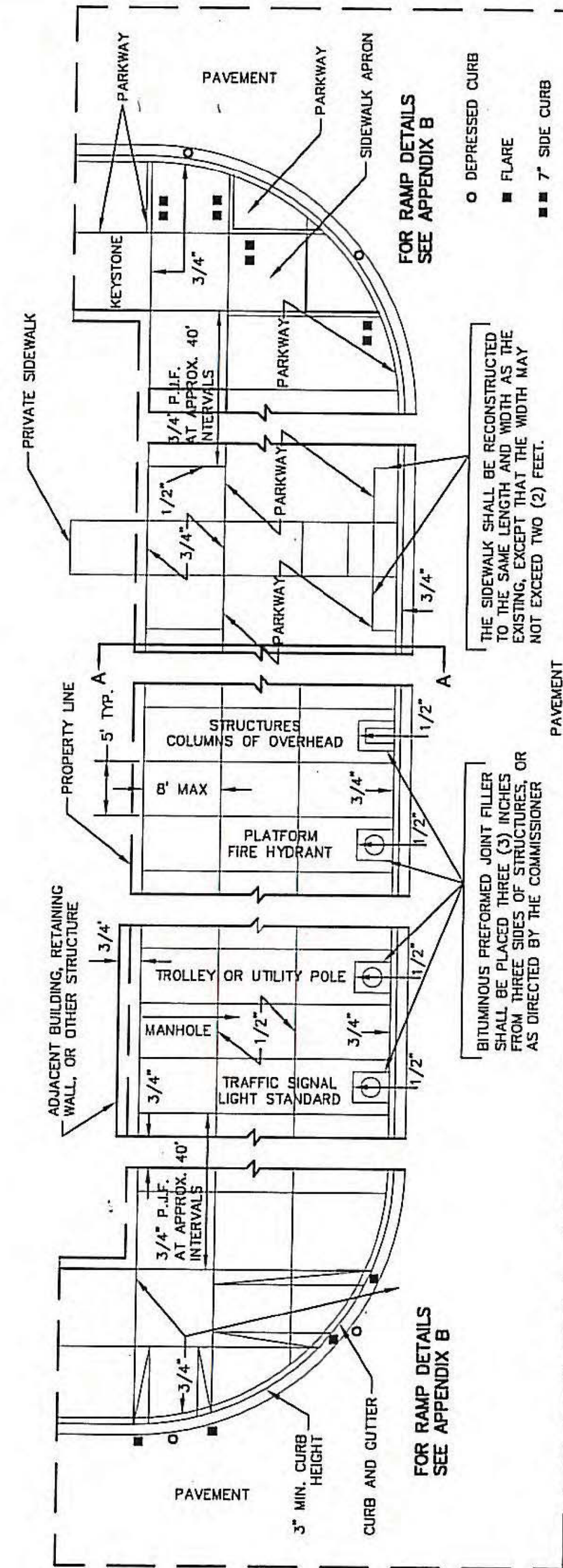
NOTE: ALL TIE BARS AND DOWEL BARS TO BE EPOXY COATED.

\*AT LOCATIONS REQUIRING DEPRESSED CURBS SEE THE ADA STANDARDS FOR CONSTRUCTION DETAILS



DATE	REVISION	CITY OF CHICAGO		
-	-	P.C.C. CURB & GUTTER		
DATE	SHEET	DRAWN BY		
12/12/06	A-2-6	CDOT		

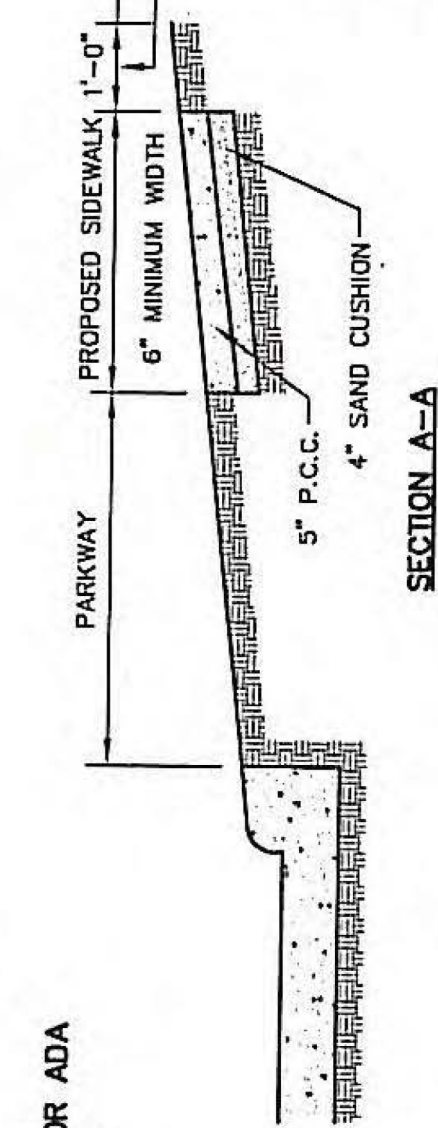
**DETAILS OF PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION**



FOR RAMP DETAILS SEE APPENDIX B

FOR RAMP DETAILS SEE APPENDIX B

RAMP FOR THE DISABLED WILL BE CONSTRUCTED AT CORNERS AND ALLEY INTERSECTIONS. SEE RAMPED SIDEWALK DETAIL. SIDEWALKS TO BE REPLACED WILL BE CONSTRUCTED ON THE EXISTING BASE. NEW SIDEWALKS WILL BE CONSTRUCTED ON A 4" SAND CUSHION.



THE 1/2" AND 3/4" DIMENSIONS REFER TO THE THICKNESS OF BITUMINOUS PREFORMED JOINT FILLER REQUIRED AT THE VARIOUS LOCATIONS.



DATE	REVISION	CITY OF CHICAGO		
-	-	P.C. CONCRETE SIDEWALK JOINT DETAILS		
DATE	SHEET	DRAWN BY		
12/22/06	A-3-2	CDOT		

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ISSUED FOR  
 CONSTRUCTION

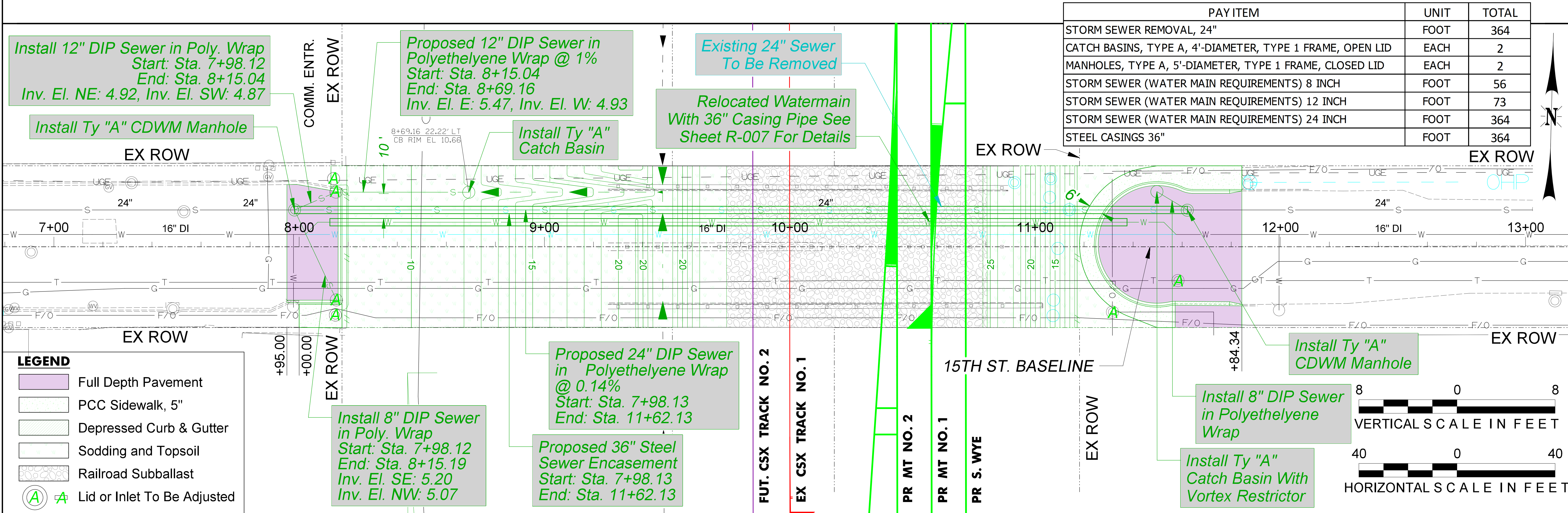
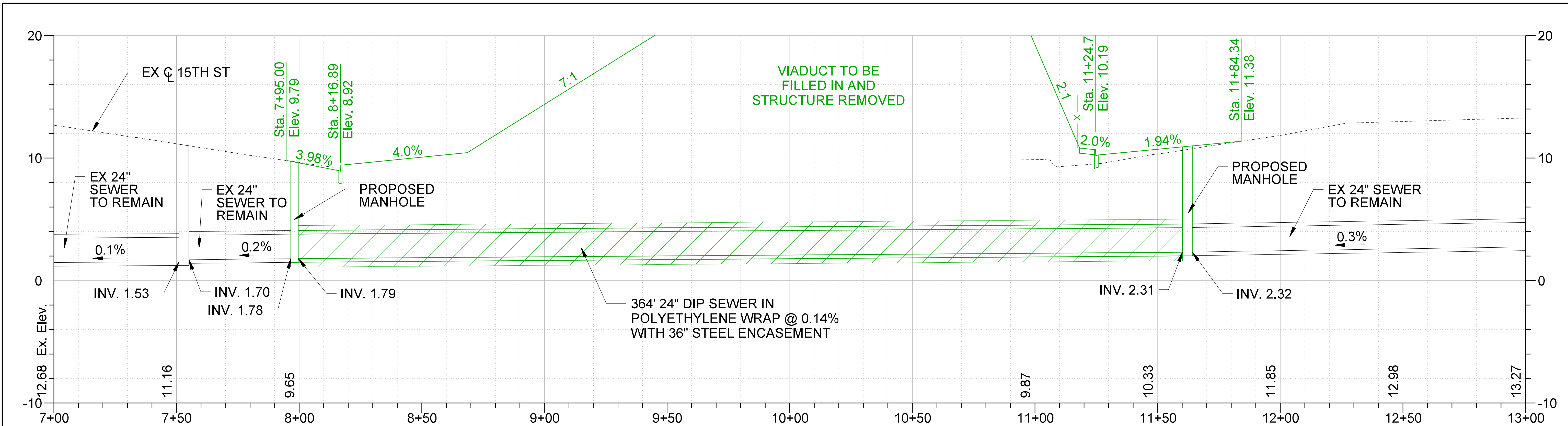
REVISION	BY	DATE	DESCRIPTION



DRAWN BY:	RC	WORK ORDER:	31876
CHECKED BY:	ST	PID:	
DATE:	5/28/21	BUDGET REF:	
SCALE:	N.T.S	SHEET NUMBER:	R-005

<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION:	CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL
SHEET TITLE:	ROADWAY DETAILS

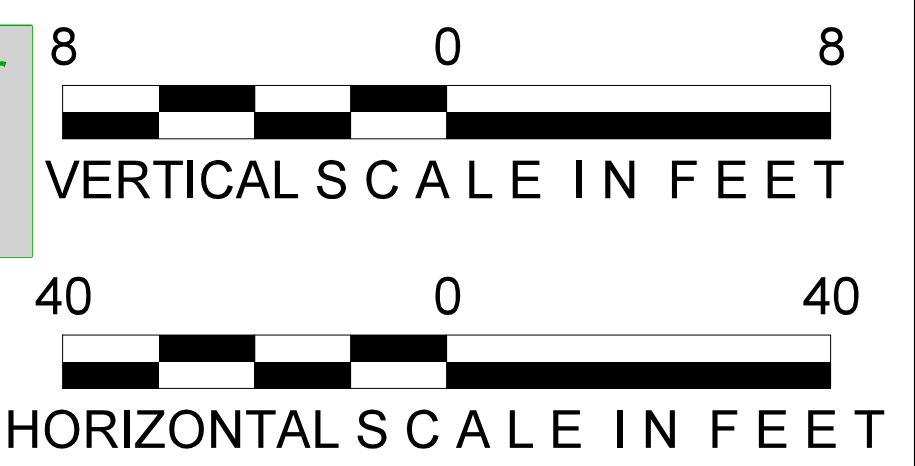
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 5/27/2021



PAY ITEM	UNIT	TOTAL
STORM SEWER REMOVAL, 24"	FOOT	364
CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2
MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	56
STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	73
STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	FOOT	364
STEEL CASINGS 36"	FOOT	364

**LEGEND**

- Full Depth Pavement
- PCC Sidewalk, 5"
- Depressed Curb & Gutter
- Sodding and Topsoil
- Railroad Subballast
- Lid or Inlet To Be Adjusted



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ISSUED FOR  
CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

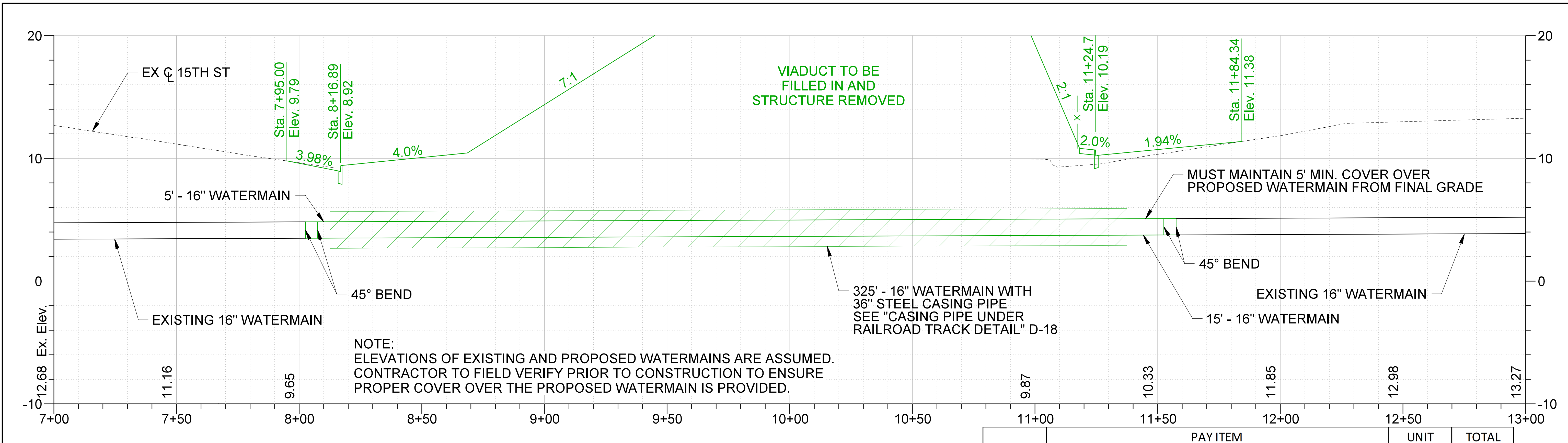
**LIN ENGINEERING, LTD.**  
 Consulting Engineers  
 Westmont, Illinois



DRAWN BY: RC  
 CHECKED BY: ST  
 DATE: 5/28/21  
 SCALE: 1"=40'

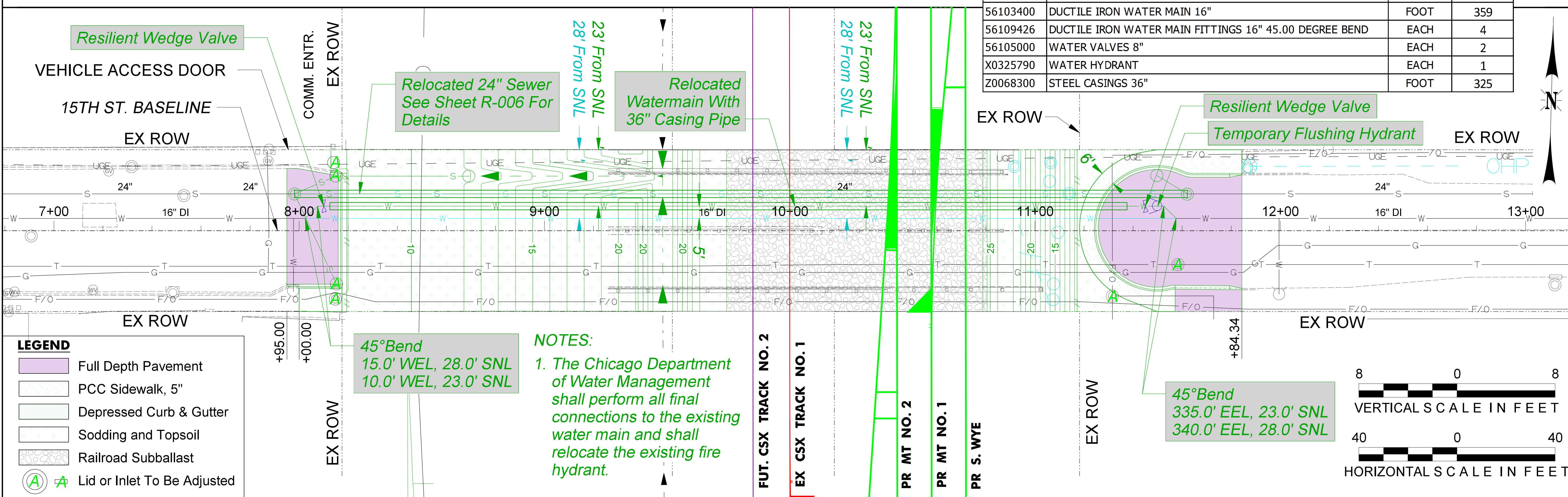
**UNION PACIFIC RAILROAD**  
 Director Structures Design  
 LOCATION & DESCRIPTION: CHICAGO, IL  
 ROCKWELL SUB / UPRR VIADUCT CLOSURE  
 15TH ST STRUCTURE REMOVAL  
 SHEET TITLE: SEWER PLAN & PROFILE

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 5/27/2021



**NOTE:**  
 ELEVATIONS OF EXISTING AND PROPOSED WATERMANS ARE ASSUMED.  
 CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION TO ENSURE  
 PROPER COVER OVER THE PROPOSED WATERMAIN IS PROVIDED.

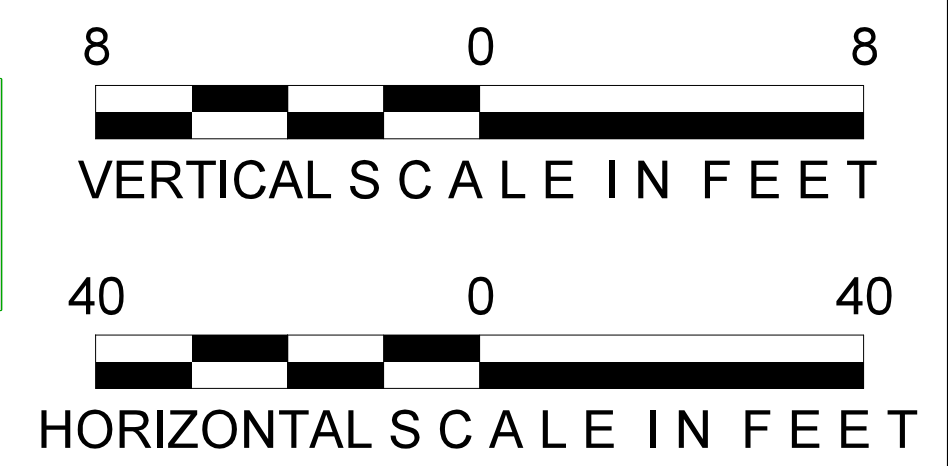
	PAY ITEM	UNIT	TOTAL
56103400	DUCTILE IRON WATER MAIN 16"	FOOT	359
56109426	DUCTILE IRON WATER MAIN FITTINGS 16" 45.00 DEGREE BEND	EACH	4
56105000	WATER VALVES 8"	EACH	2
X0325790	WATER HYDRANT	EACH	1
Z0068300	STEEL CASINGS 36"	FOOT	325



**LEGEND**

- Full Depth Pavement
- PCC Sidewalk, 5"
- Depressed Curb & Gutter
- Sodding and Topsoil
- Railroad Subballast
- Lid or Inlet To Be Adjusted

**NOTES:**  
 1. The Chicago Department of Water Management shall perform all final connections to the existing water main and shall relocate the existing fire hydrant.



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CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

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 Westmont, Illinois



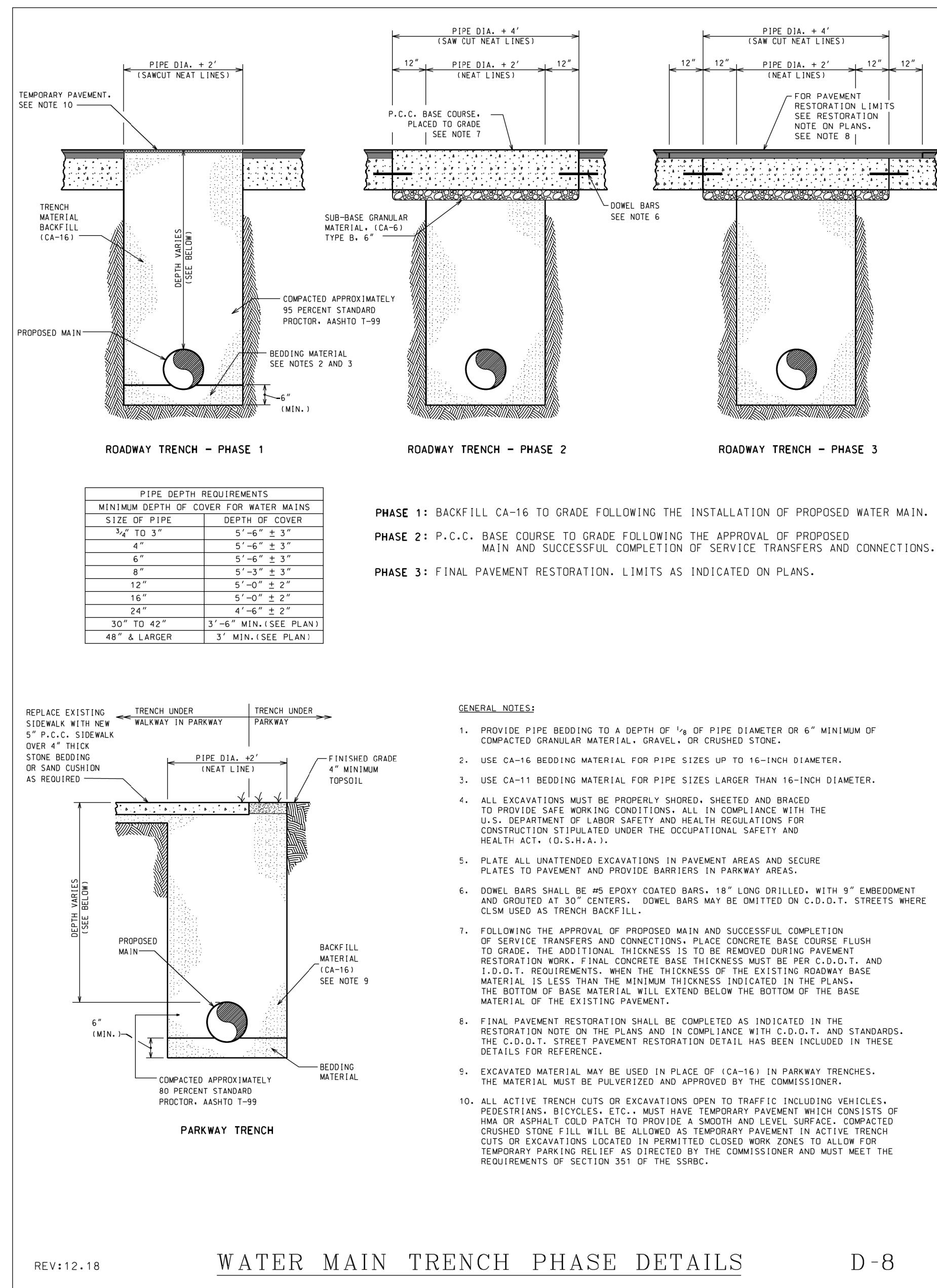
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CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: 1"=40'	SHEET NUMBER: R-007

**UNION PACIFIC RAILROAD**  
 Director Structures Design

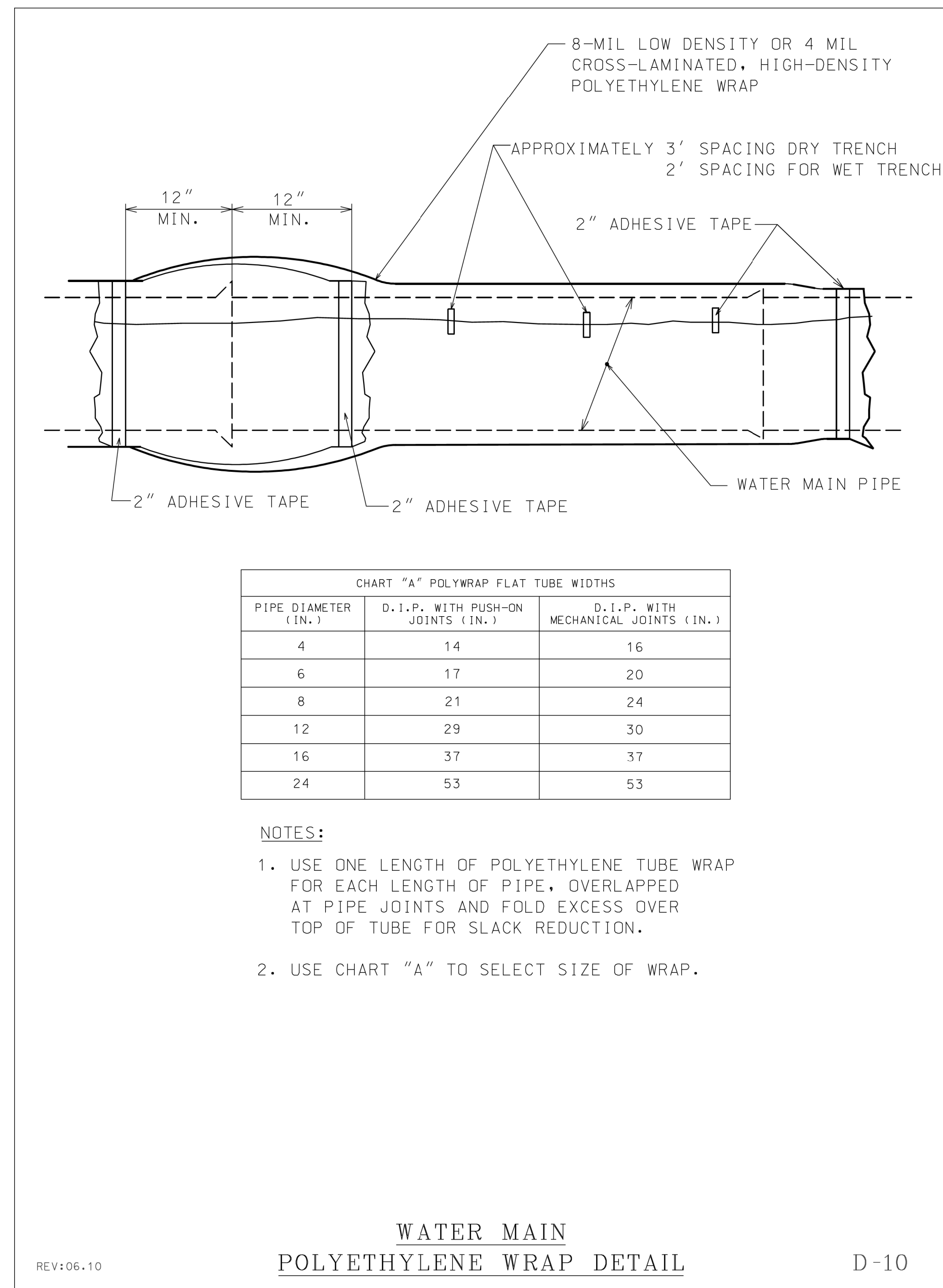
LOCATION & DESCRIPTION: CHICAGO, IL  
 ROCKWELL SUB / UPRR VIADUCT CLOSURE  
 15TH ST STRUCTURE REMOVAL

SHEET TITLE: WATERMAIN PLAN & PROFILE

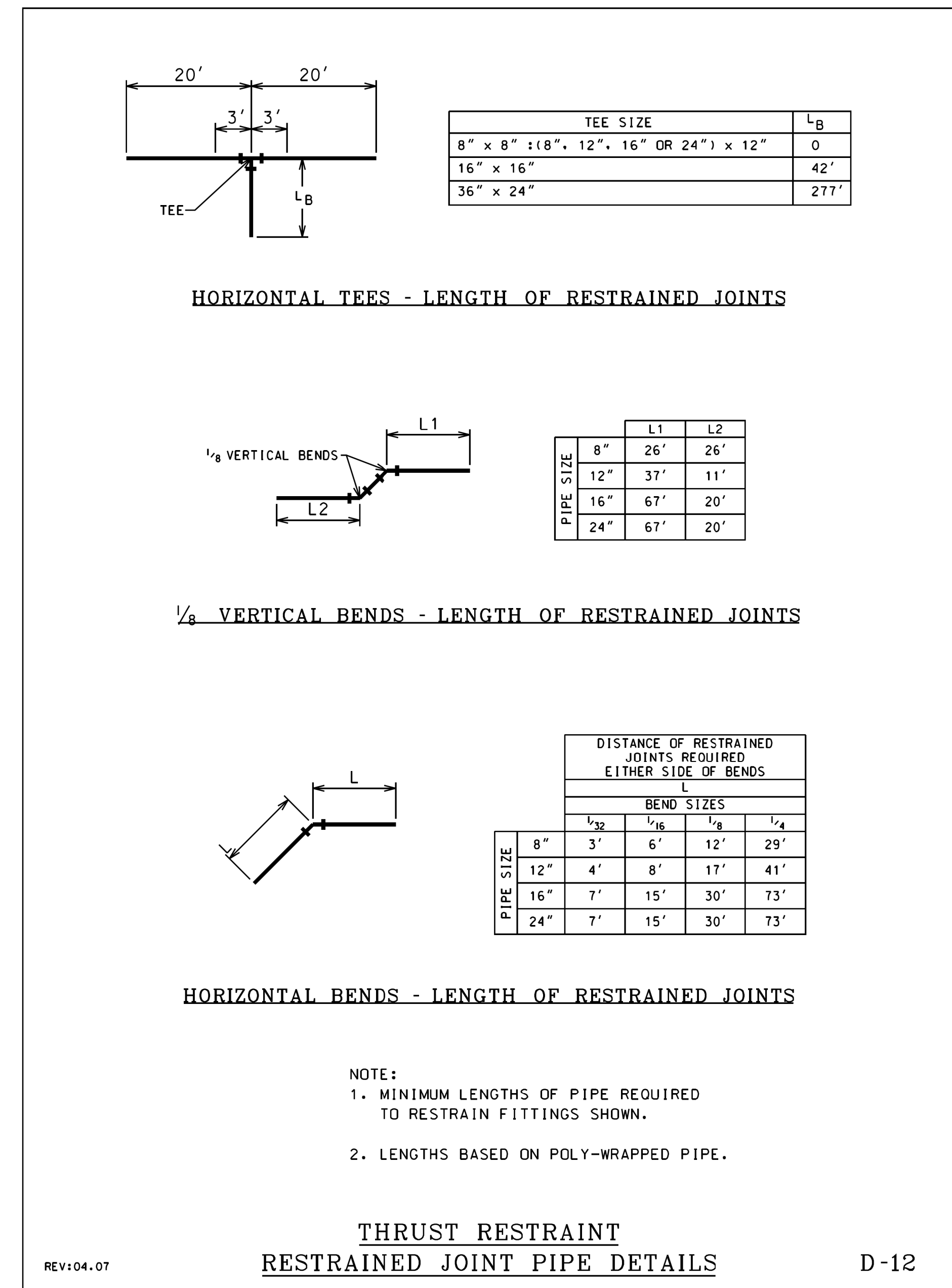
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 5/27/2021



REV:12.18 WATER MAIN TRENCH PHASE DETAILS D-8



REV:06.10 WATER MAIN POLYETHYLENE WRAP DETAIL D-10



REV:04.07 THRUST RESTRAINT RESTRAINED JOINT PIPE DETAILS D-12

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 CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

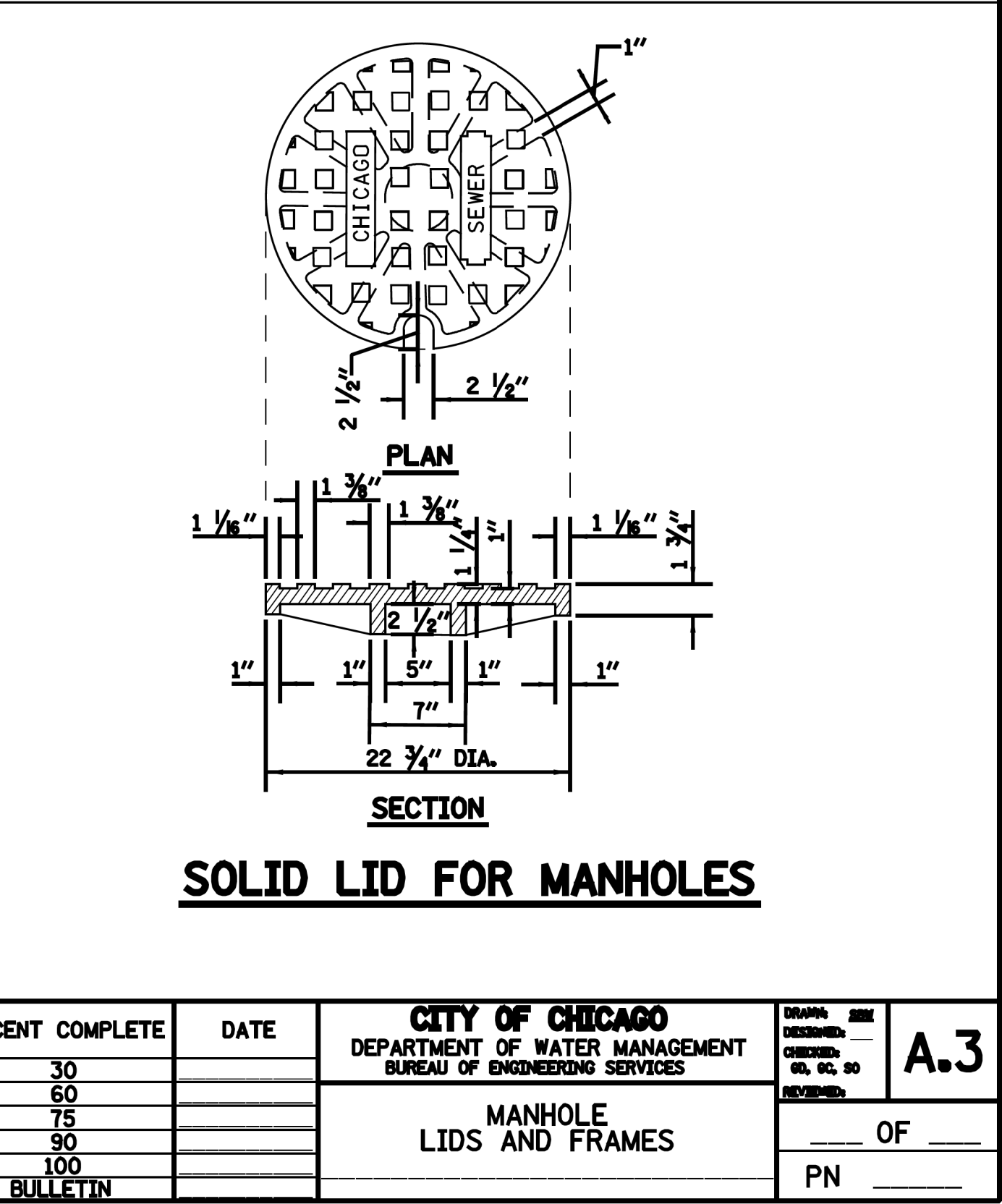
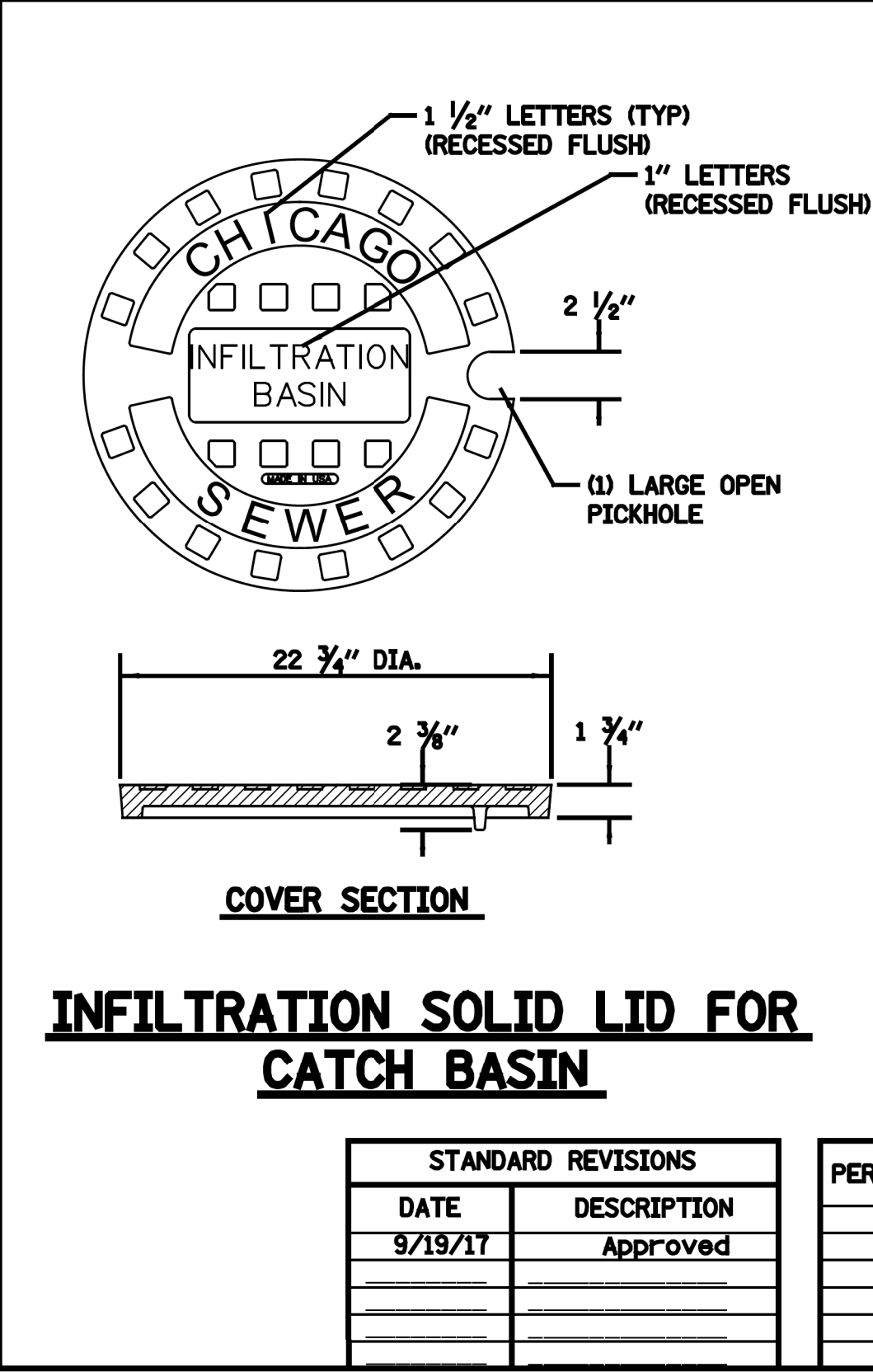
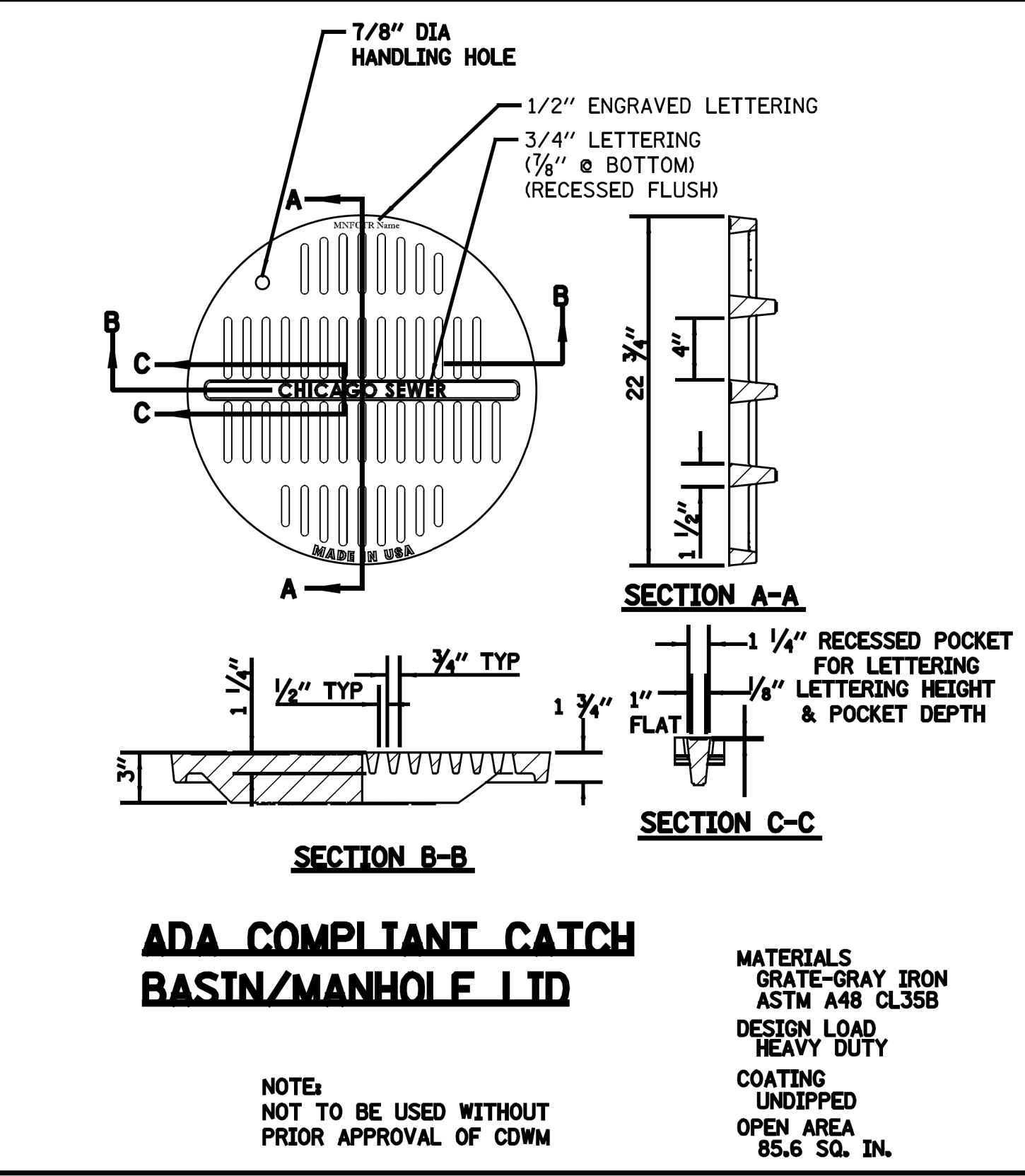
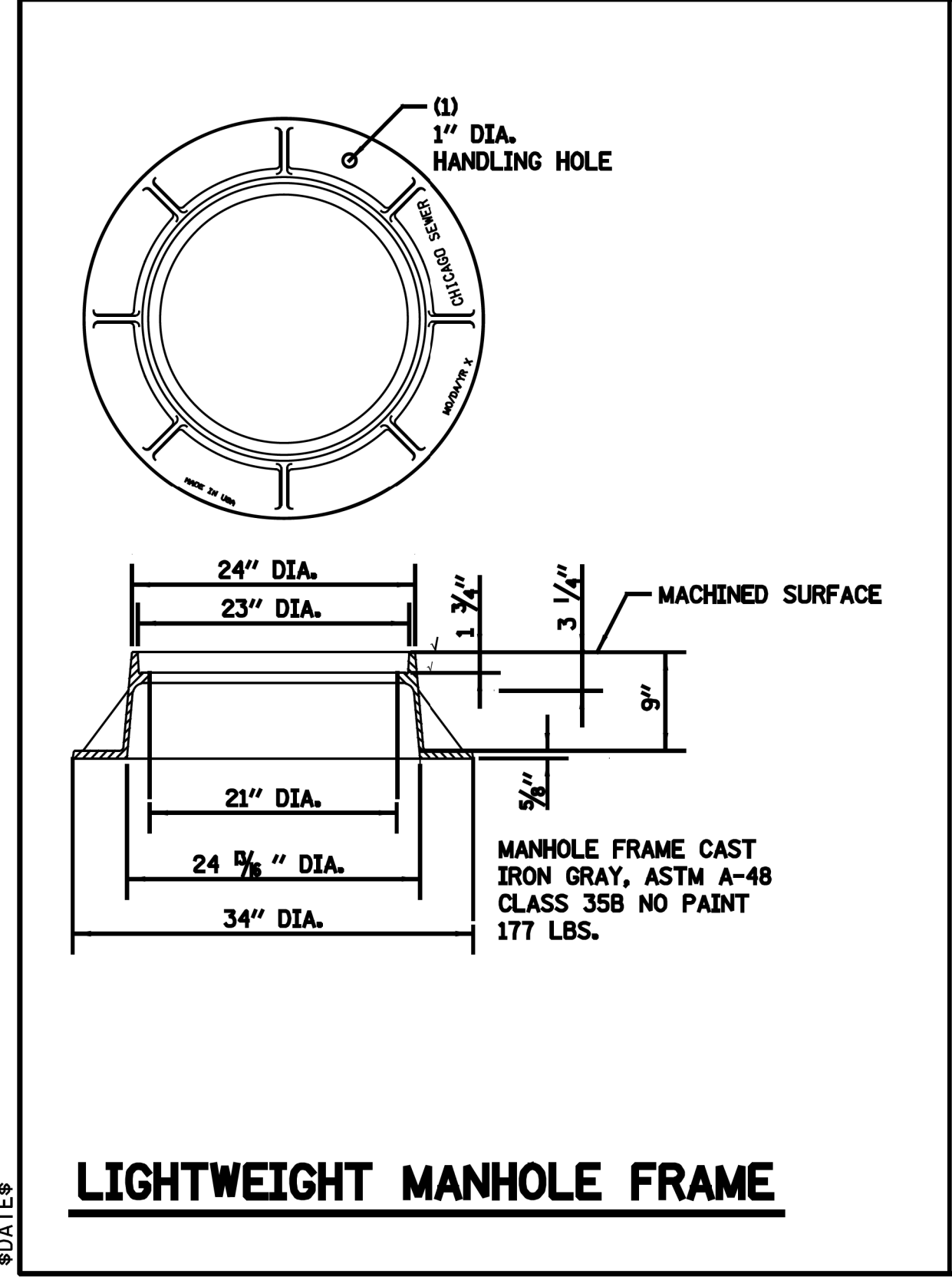
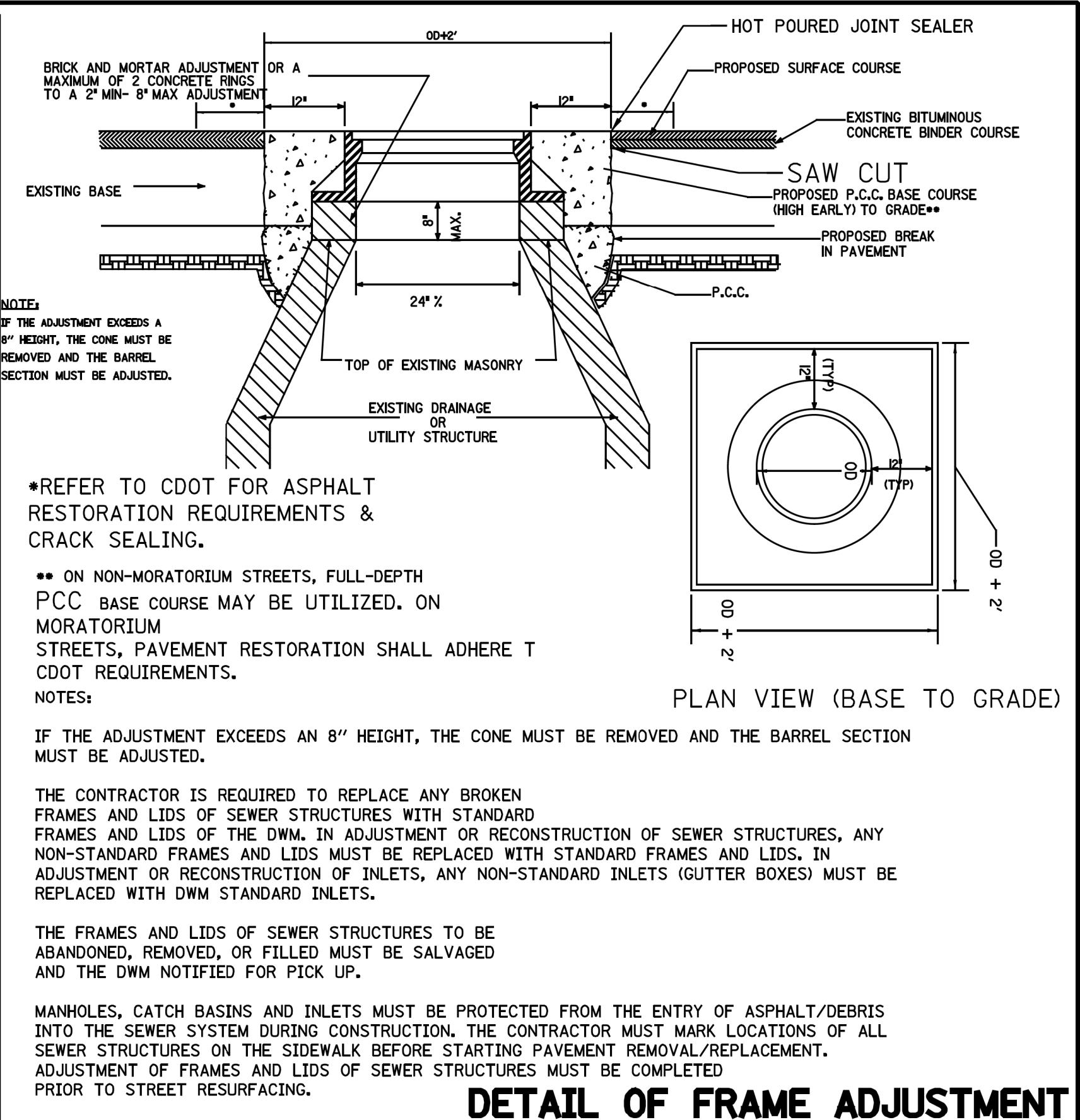
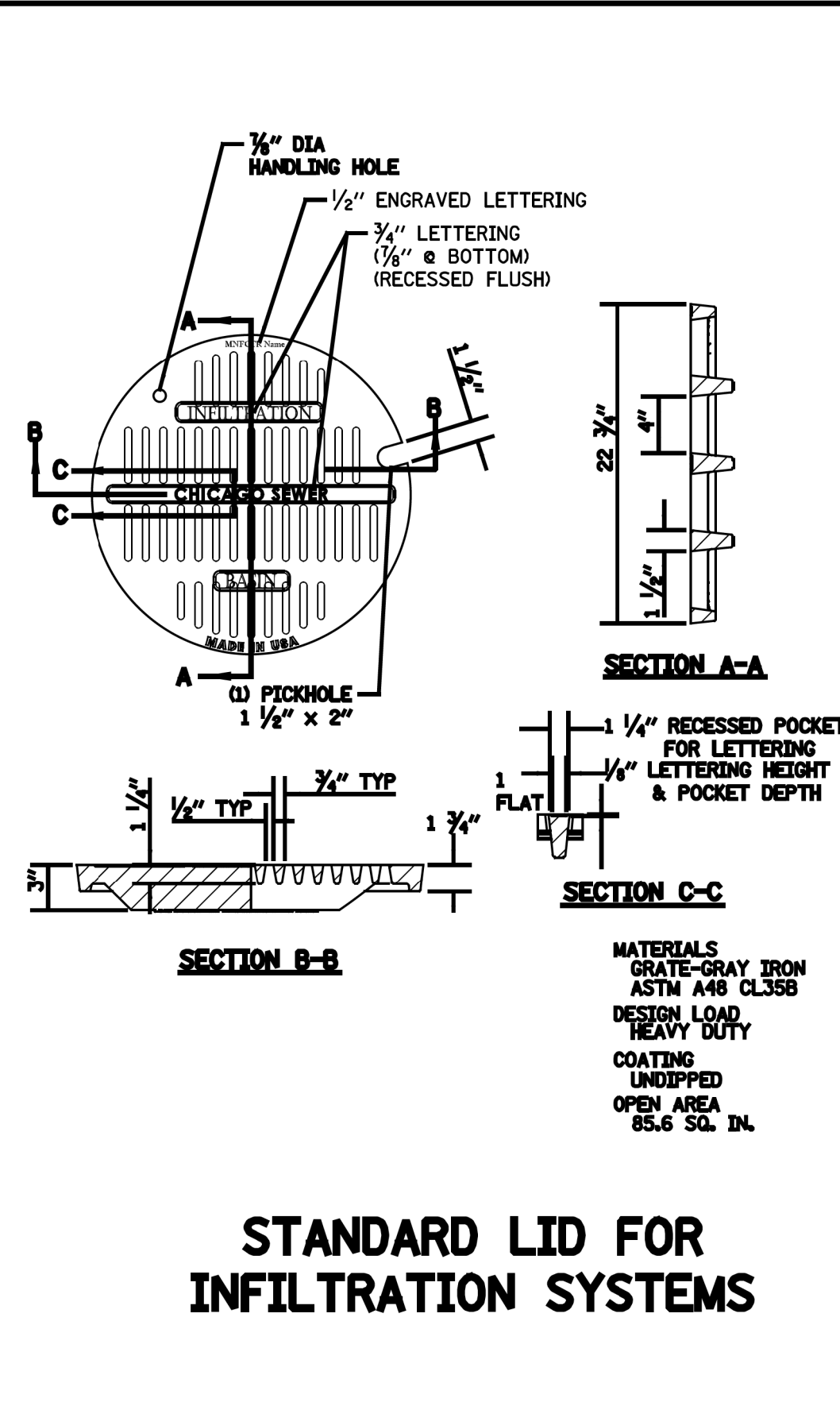
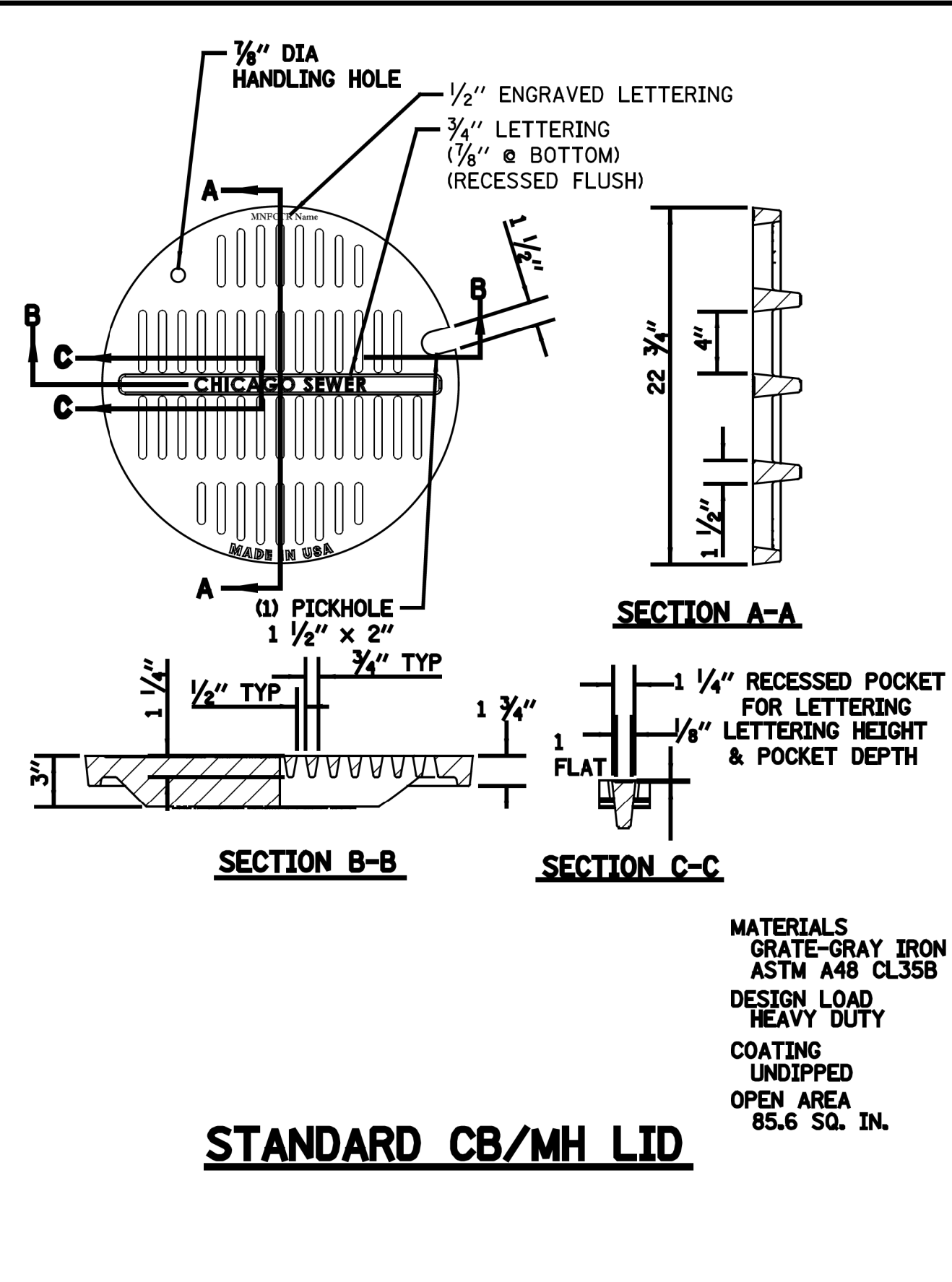
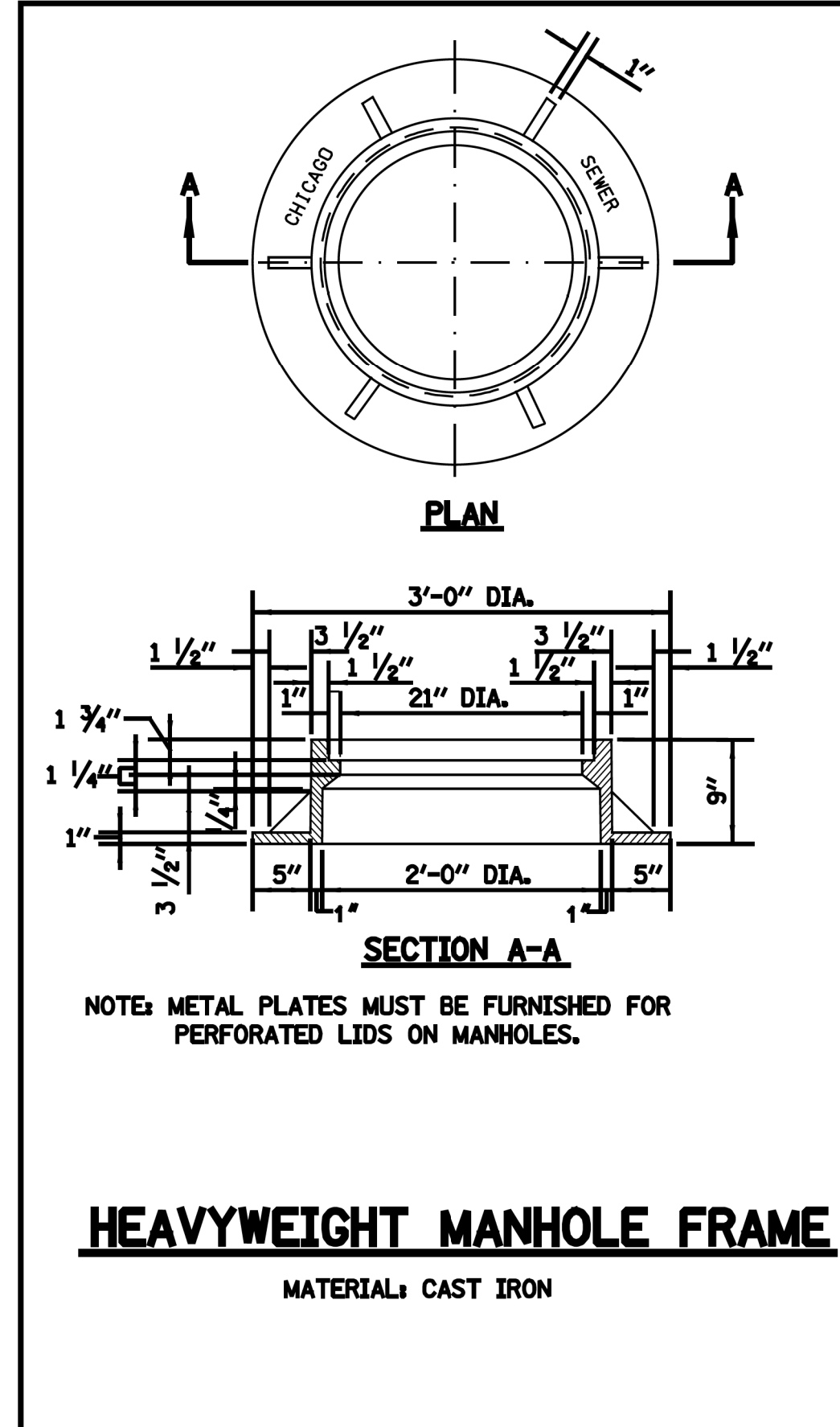


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CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER R-008

<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION: CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL	
SHEET TITLE: WATERMAIN DETAILS	



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 5/27/2021



STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES	DRAWN BY RC	WORK ORDER: 31876	CHECKED BY ST	DATE: 5/28/21	BUDGET REF:	SHEET NUMBER R-010	SCALE: N.T.S.	SHEET TITLE: WATERMAIN DETAILS
DATE	DESCRIPTION											
9/19/17	Approved	30		MANHOLE LIDS AND FRAMES	A.3	OF	PN					
		60										
		75										
		90										
		100										

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REVISION	BY	DATE	DESCRIPTION

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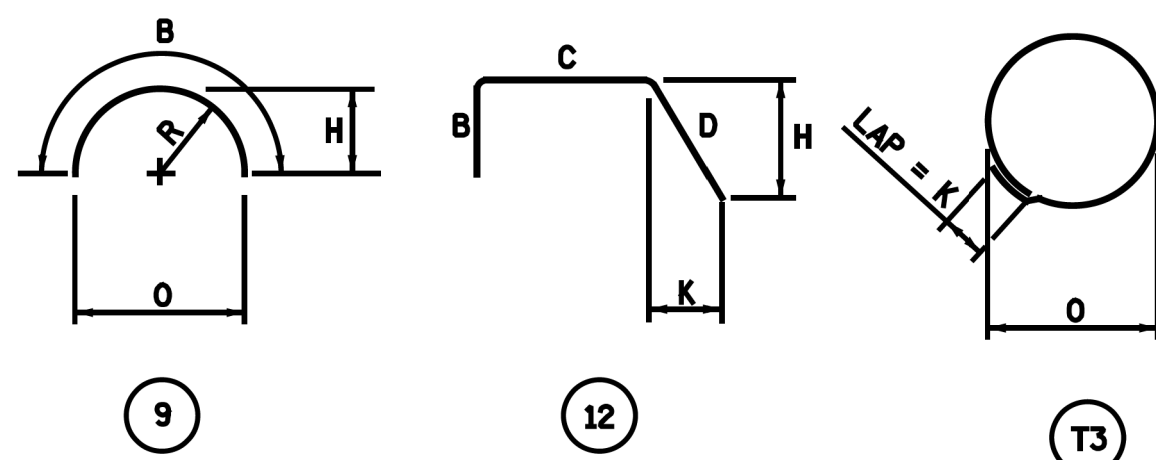


**UNION PACIFIC RAILROAD**  
 Director Structures Design

LOCATION & DESCRIPTION:  
 CHICAGO, IL  
 ROCKWELL SUB / UPRR VIADUCT CLOSURE  
 15TH ST STRUCTURE REMOVAL



MARK NO.	SIZE	TYPE	LENGTH	NO. EACH	WEIGHT - LB	BENDING DIMENSIONS																															
						A	B	C	D	E	F	G	H	J	K	O	R																				
BASIS FOR TYPE "A" MANHOLES (Precast) STRUCTURE																																					
36" DIA.																																					
36A1	6	T3	12'-7"	6	18.90														2'-0"	3'-10"																	
36A2	6	T3	4'-2"	4	6.25														2'-0"	3'-10"																	
36A3	6	T3	4'-2"	4	6.25														2'-0"	3'-10"																	
36A4	6	T3	4'-2"	4	6.25														2'-0"	3'-10"																	
36A5	6	T3	4'-2"	4	6.25														2'-0"	3'-10"																	
36A6	6	T3	11'-11"	3	12.43														2'-0"	3'-10"																	
36A7	6	T3	11'-11"	3	12.43														2'-0"	3'-10"																	
36A8	4	STR	4'-8"	18	3.12														3'-0"	20"																	
TOTAL					258																																
30" DIA.																																					
30A1	6	T3	11'-1"	6	16.68														2'-0"	2'-10"																	
30A2	6	T3	4'-2"	4	6.25														2'-0"	2'-10"																	
30A3	6	T3	4'-2"	4	6.25														2'-0"	2'-10"																	
30A4	6	T3	4'-2"	4	6.25														2'-0"	2'-10"																	
30A5	6	T3	4'-2"	4	6.25														2'-0"	2'-10"																	
30A6	6	T3	11'-11"	3	12.43														2'-0"	2'-10"																	
30A7	6	T3	11'-11"	3	12.43														2'-0"	2'-10"																	
30A8	4	STR	4'-8"	18	3.12														3'-0"	14 1/2"																	
TOTAL					258																																
24" DIA.																																					
24A1	6	T3	9'-8"	6	5.13														2'-0"	2'-10"																	
24A2	6	T3	4'-2"	4	6.25														2'-0"	2'-10"																	
24A3	6	T3	4'-2"	4	6.25														2'-0"	2'-10"																	
24A4	6	T3	4'-2"	4	6.25														2'-0"	2'-10"																	
24A5	6	T3	11'-11"	3	12.43														2'-0"	2'-10"																	
24A6	4	STR	4'-8"	12	3.12														3'-0"	37"																	
TOTAL					250																																



NOTES:  
 ALL DIMENSIONS ARE OUT TO OUT OF BAR.  
 BENDING RADII "R" TO OUTSIDE OF BAR.  
 NUMBERS IN CIRCLES DENOTE BAR TYPE.

PLACING OF CONCRETE- CONCRETE MUST BE PLACED IN ACCORDANCE WITH THE METHOD OUTLINED IN THE CITY OF CHICAGO STANDARD SPECIFICATIONS.  
 CONSTRUCTION JOINTS - JOINTS NOT INDICATED ON THE DRAWINGS MUST BE SO MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE AND MUST BE APPROVED BY THE COMMISSIONER. JOINTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE METHOD OUTLINED IN THE SPECIFICATIONS.

CONCRETE PROTECTION FOR REINFORCEMENT- ALL REINFORCING STEEL MUST HAVE CLEAR CONCRETE COVERING AS FOLLOWS (UNLESS OTHERWISE NOTED) :  
 3" AT EXTERIOR SURFACES WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND;  
 2.5" AT SURFACES WHERE CONCRETE IS FORMED BUT SUBSEQUENTLY WILL BE IN CONTACT WITH SEWAGE; 2" AT ALL OTHER SURFACES.

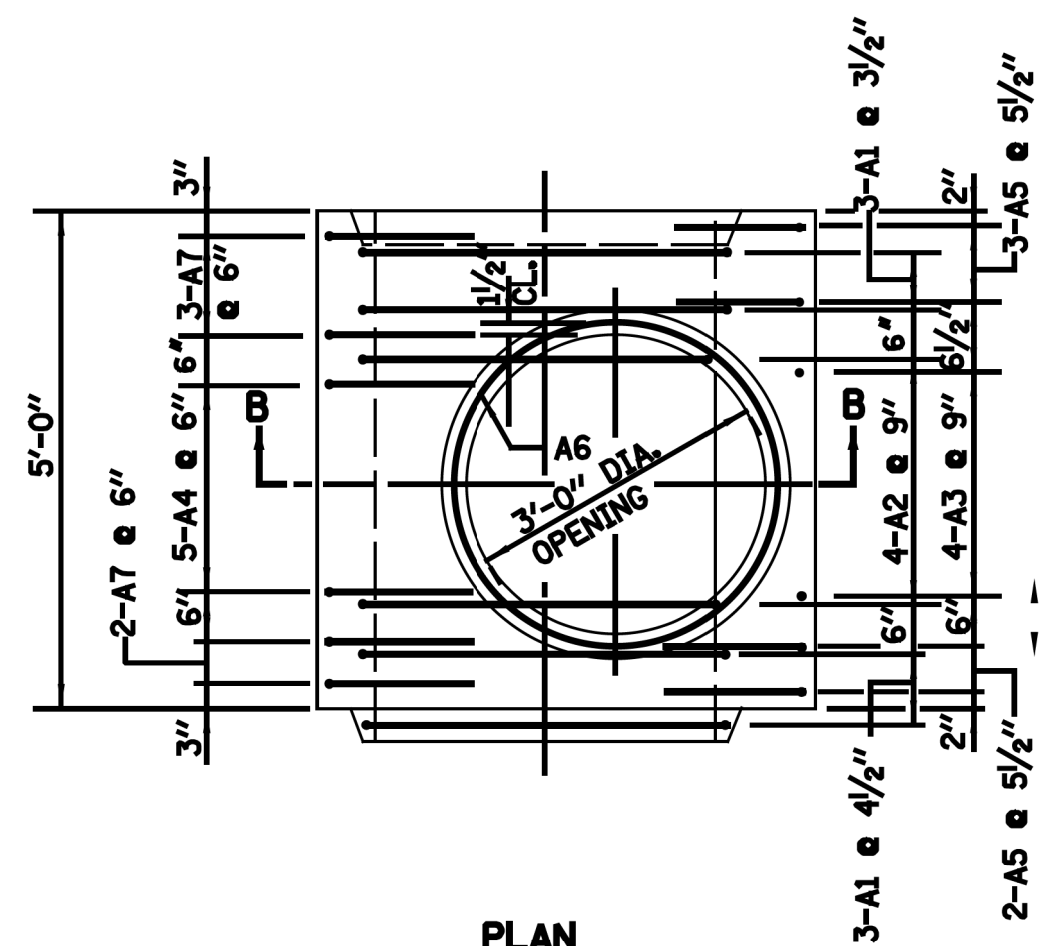
REINFORCING STEEL- ALL REINFORCING BARS MUST BE ACCURATELY PLACED AND SECURELY SUPPORTED BY BAR SUPPORTS, SPACERS OR HIGH CHAIRS.  
 ALL LAPS IN REINFORCING STEEL MUST BE BASED UPON THE 1989, ACI BUILDING CODE.

UNLESS OTHERWISE NOTED, HOOKS AND BENDS ON BARS MUST CONFORM TO RECOMMENDED DETAILS AS GIVEN IN THE "MANUAL OF STANDARD PRACTICE", C.R.S.I. 1990.

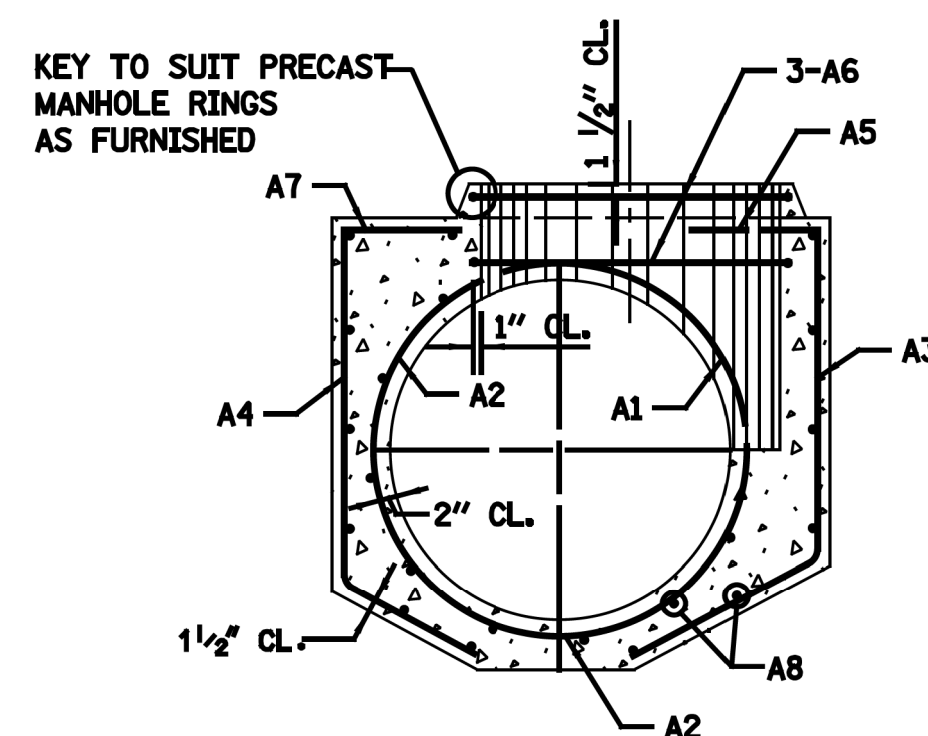
THE FOLLOWING ABBREVIATIONS ARE USED TO INDICATE THE LOCATION OF REINFORCING BARS:

T.	DENOTES	TOP	N.F.	DENOTES	NEAR FACE
BOT.	DENOTES	BOTTOM	F.F.	DENOTES	FAR FACE
I.F.	DENOTES	INSIDE FACE	E.F.	DENOTES	EACH FACE
O.F.	DENOTES	OUTSIDE FACE	E.W.	DENOTES	EACH WAY

PLACING BAR SUPPORTS- ALL REINFORCING BARS MUST BE SUPPORTED, ANCHORED AND TIED AND MUST CONFORM TO THE "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS", 1986, PREPARED BY THE CONCRETE REINFORCING STEEL INSTITUTE.

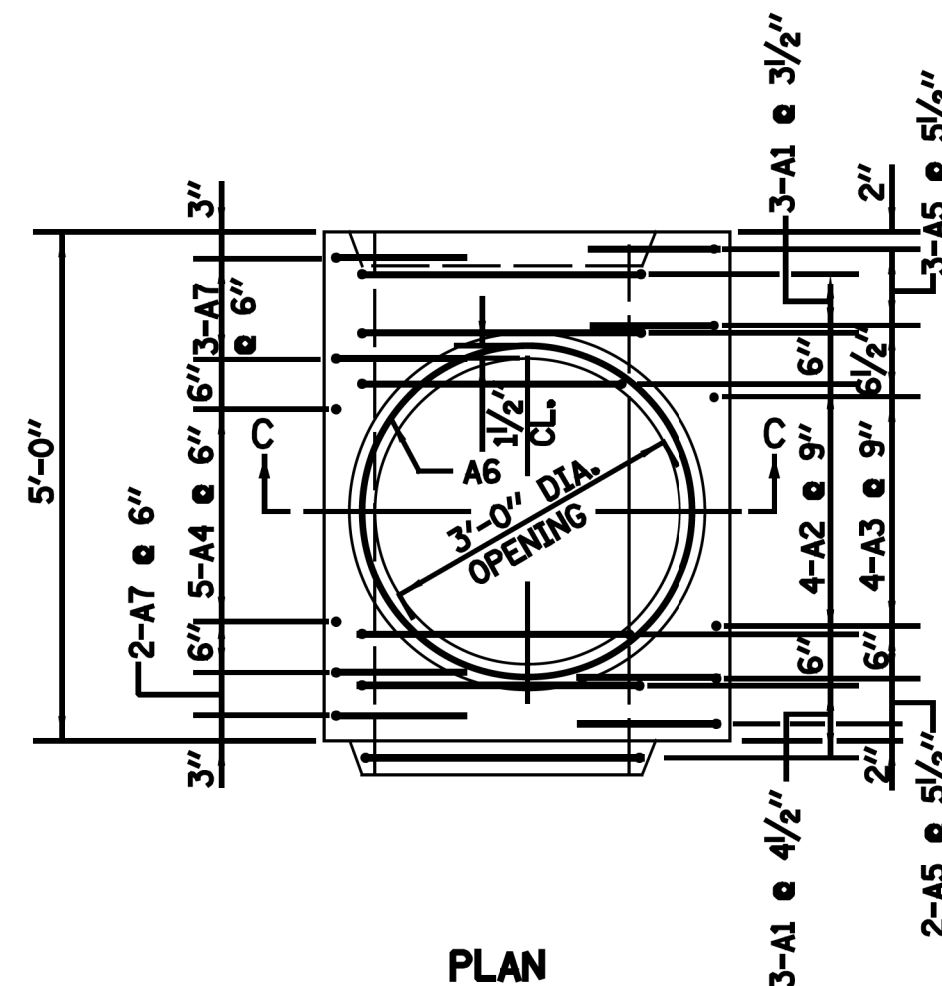


PLAN

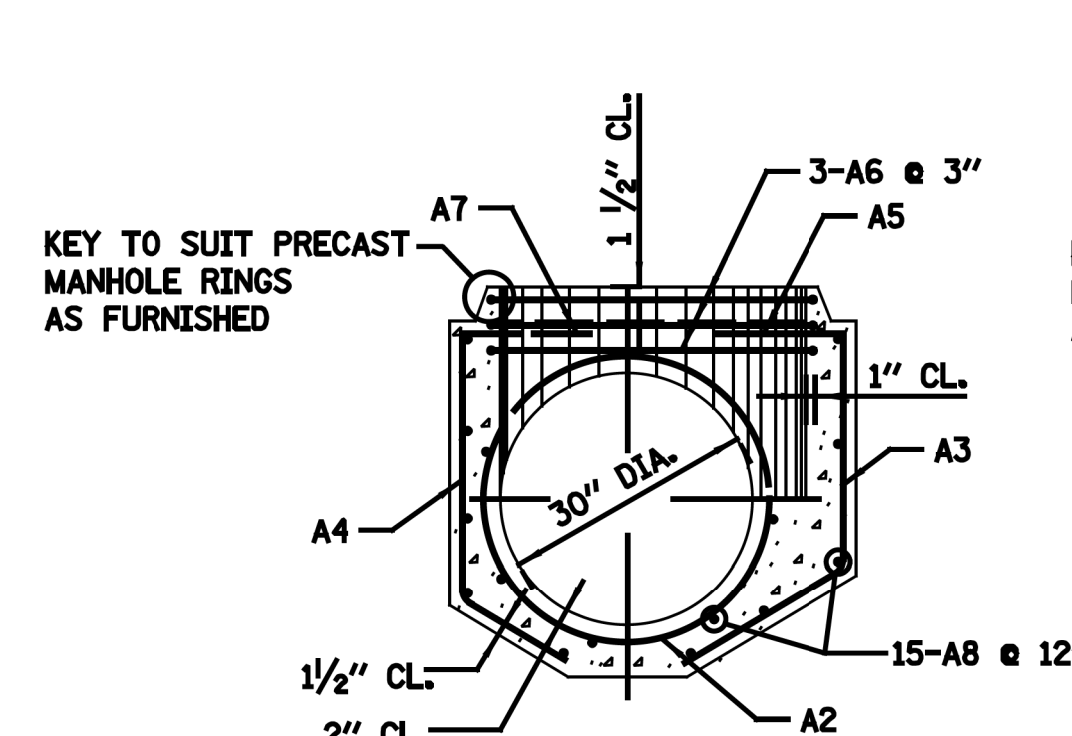


SECTION B-B

**MANHOLE BASE FOR SEWERS  
36" DIA.**

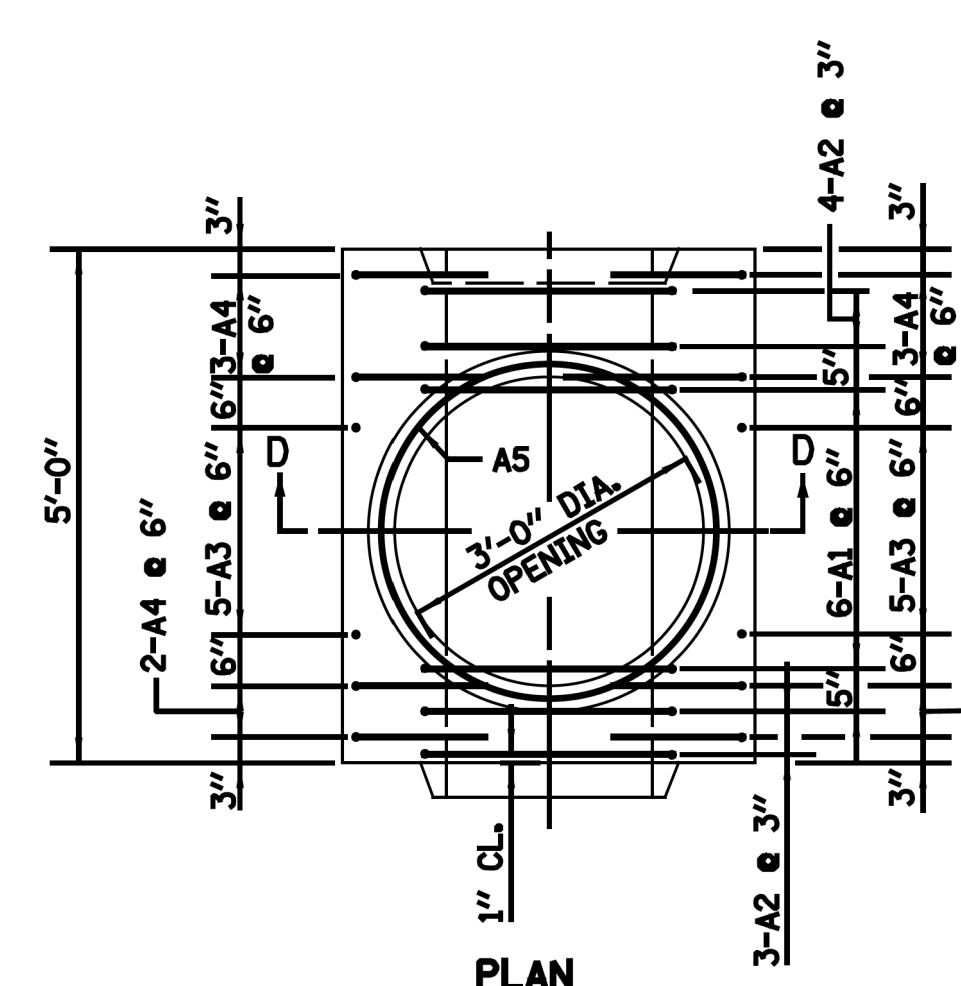


PLAN

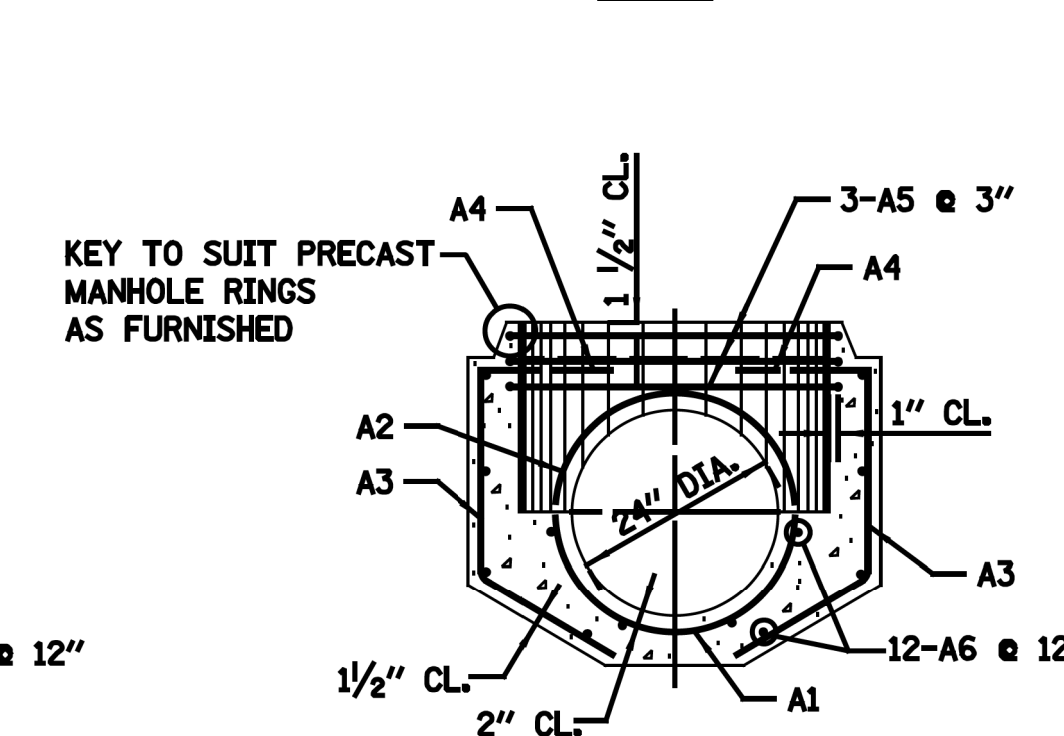


SECTION C-C

**MANHOLE BASE  
FOR 30" DIA. SEWERS**



PLAN



SECTION D-D

**MANHOLE BASE  
FOR 24" DIA. SEWERS**

STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES	DRAWN BY: RC CHECKED BY: ST DATE: 5/28/21 SCALE: N.T.S.	WORK ORDER: 31876 PID: BUDGET REF: SHEET NUMBER: R-012	A.7 OF PN
DATE	DESCRIPTION						
2/23/17	REVISION	30		REINFORCEMENT FOR TYPE "A" PRECAST BASES AND RINGS 24" TO 36"			
		60					
		75					
		90					
		100					
		BULLETIN					

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CONSTRUCTION**

REVISION	BY	DATE	DESCRIPTION

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Consulting Engineers  
Westmont, Illinois

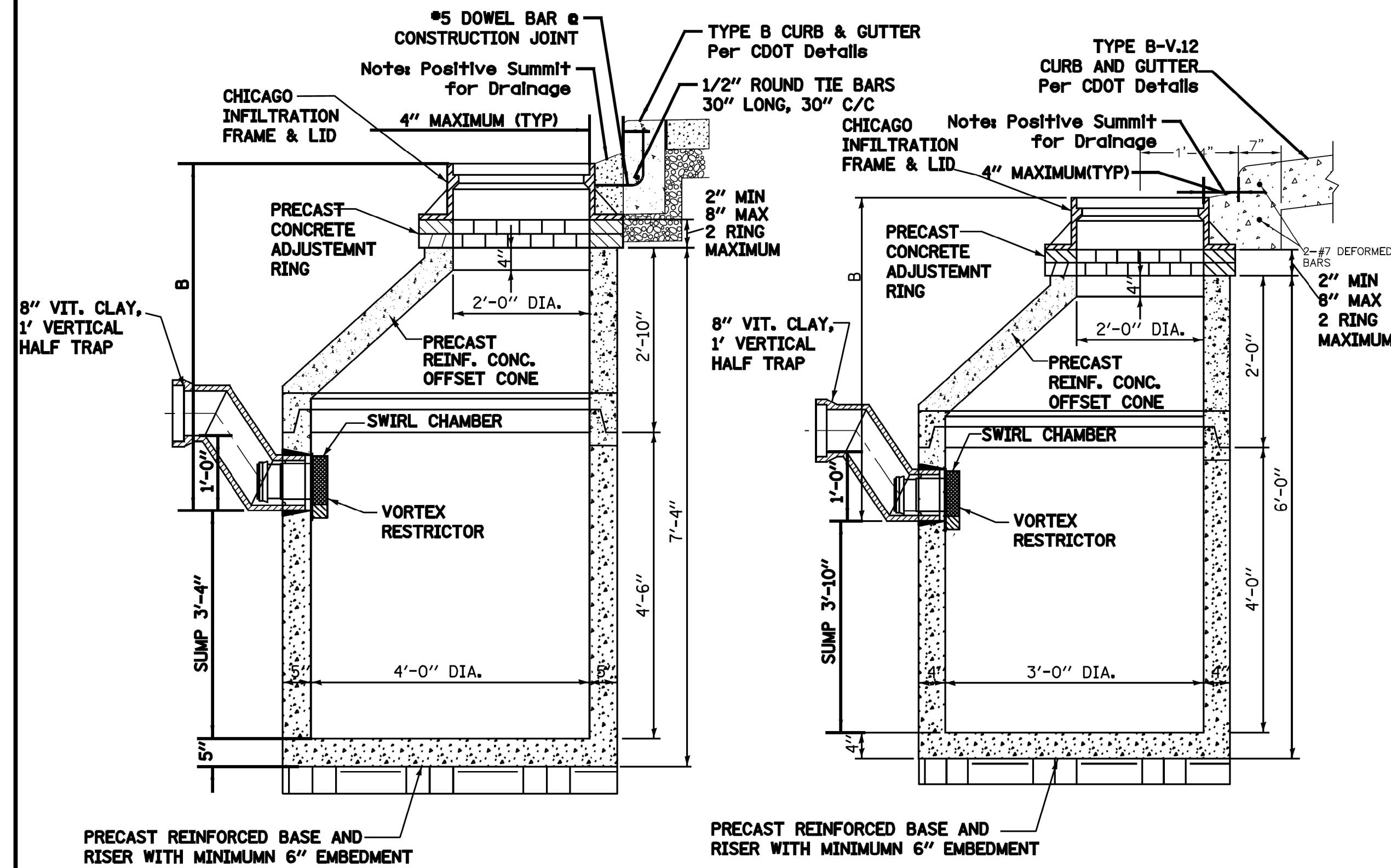


DRAWN BY: RC  
CHECKED BY: ST  
DATE: 5/28/21  
SCALE: N.T.S.

**UNION PACIFIC RAILROAD**  
Director Structures Design  
CHICAGO, IL  
ROCKWELL SUB / UPRR VIADUCT CLOSURE  
15TH ST STRUCTURE REMOVAL  
SEWER CONSTRUCTION DETAILS

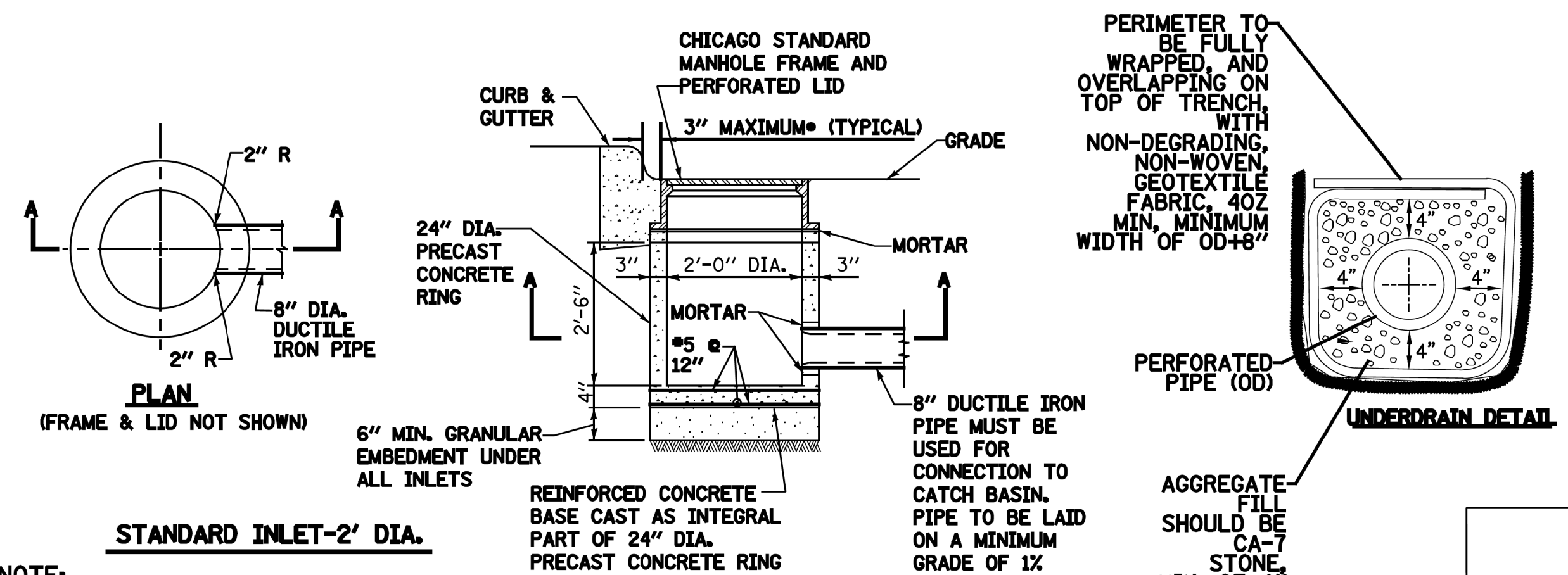
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5/27/2021

## STANDARD DRAINAGE STRUCTURES FOR PUBLIC STREETS



**STANDARD CATCH BASIN-4' DIA.**

**STANDARD CATCH BASIN-3' DIA.**



**STANDARD INLET-2' DIA.**

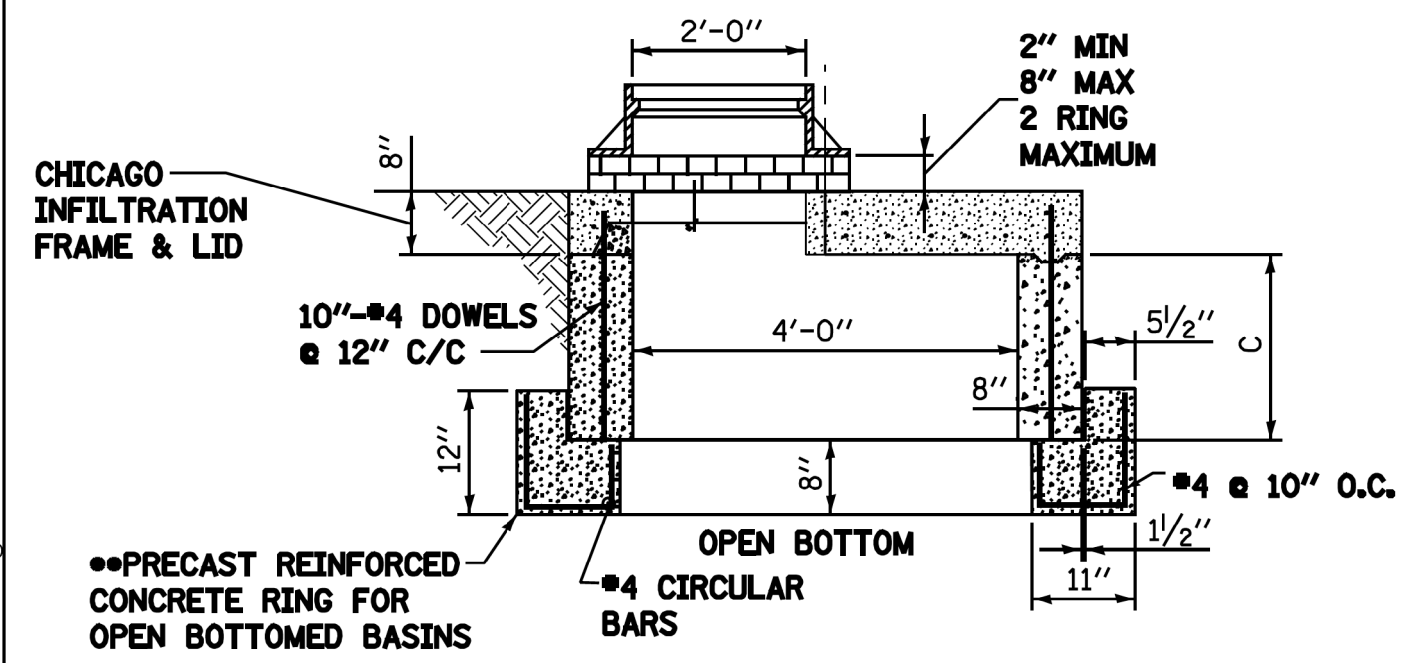
**UNDERDRAIN DETAIL**

**NOTE:**  
INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF DWM SEWER ENGINEER OR FIELD INSPECTOR.

- FOR TRENCH BACKFILL, REFER TO IDOT SSRBC, ARTICLE 1003.04.
- FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.
- FOR STABILIZATION STONE, 12" OF CA-1 STONE IS ONLY REQUIRED WHEN UNSTABLE MATERIAL IS ENCOUNTERED AT TRENCH BOTTOM.

• OUTER EDGE OF FRAME TO FACE OF CURB

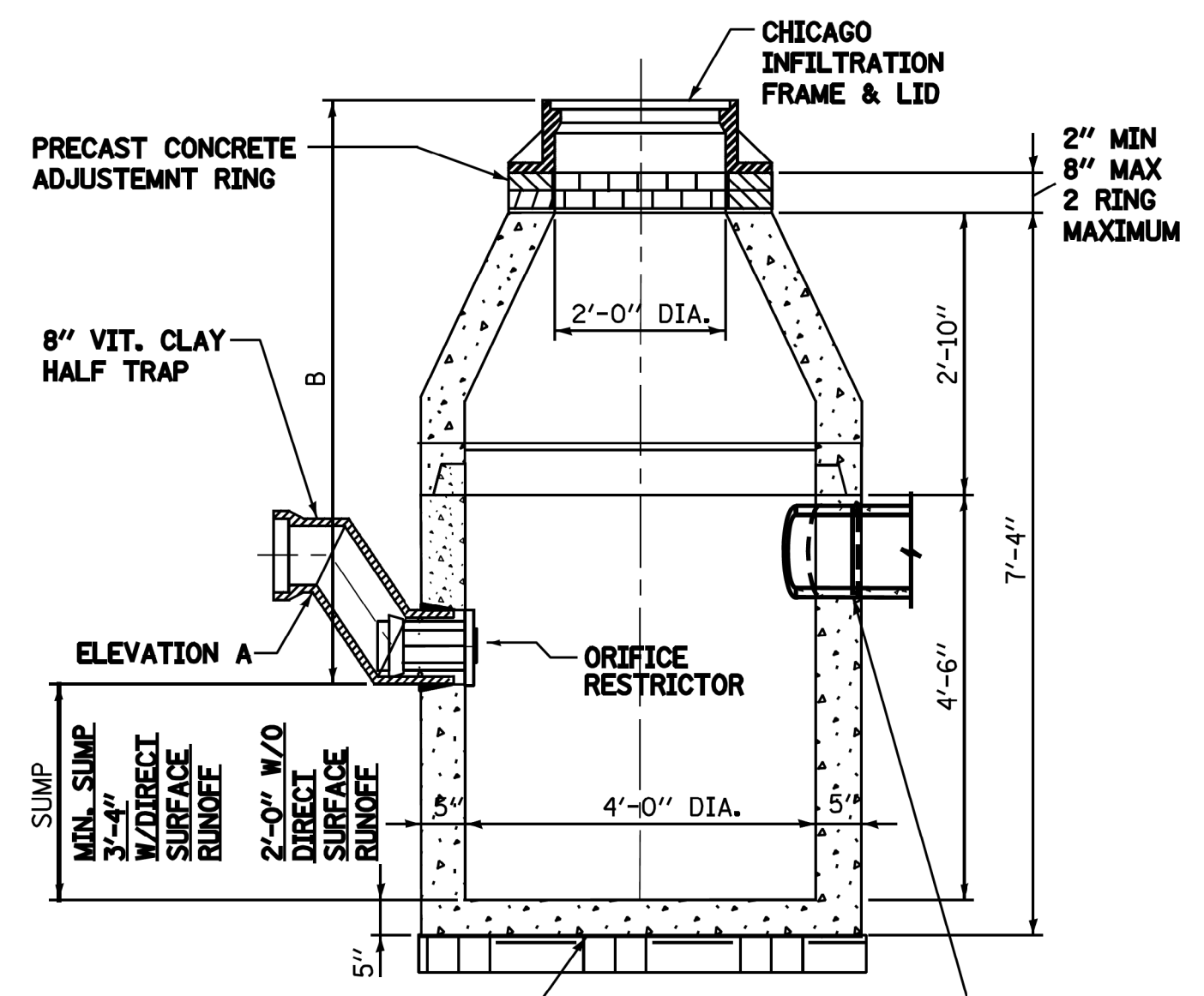
## STANDARD DRAINAGE STRUCTURES FOR PUBLIC ALLEYS



**GREEN ALLEY OPEN BOTTOM CATCH BASIN**

TO BE USED IF STANDARD CONE WITH REQUIRED SUMP DEPTH INSTALLATION IS IMPOSSIBLE.

- IF FLAT TOP SLAB CATCH BASIN IS USED IN AN OPEN BOTTOM APPLICATION, THE FOLLOWING CRITERIA MUST BE FOLLOWED:
  - "C" MUST BE A MINIMUM OF 3 FEET.
  - PROVIDE A MINIMUM AGGREGATE BASE OF 1.0 FEET BELOW PRECAST REINFORCED CONCRETE RING.
  - GEOTECH FABRIC MUST BE PLACED ON SIDES AND BOTTOM OF AGGREGATE SURROUNDING BASIN.
  - AGGREGATE BASE MUST PROVIDE ADEQUATE STORMWATER STORAGE CAPACITY PER THE APPROVED/PERMITTED PLANS.



**CATCH BASIN-ORIFICE RESTRICTOR**

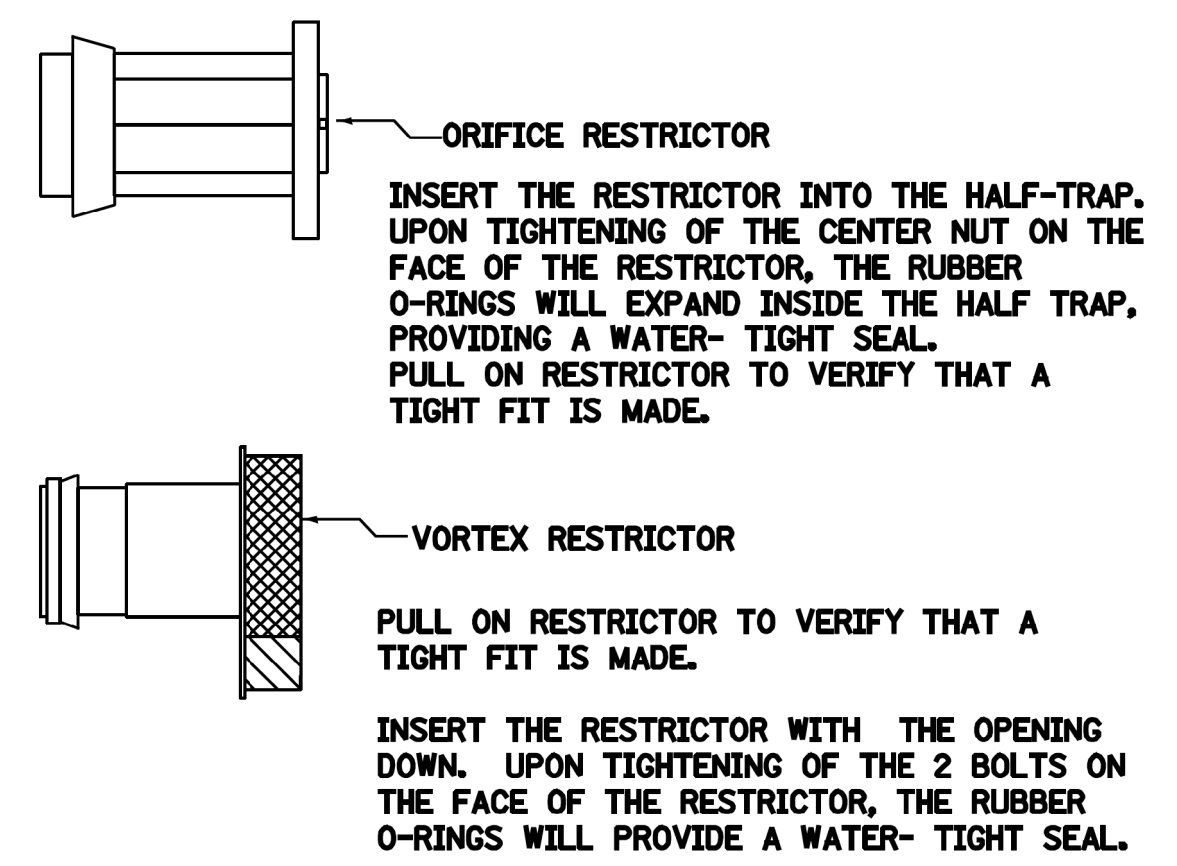
N.T.S.

- NOTES:**
- FOR ANY DRAIN TILE CONNECTION, THE WATER TABLE MUST BE AT LEAST 3.5 FEET BELOW ELEVATION A.
  - PVC UNDERDRAINS MUST BE 4" MINIMUM DIAMETER, (6" RECOMMENDED) AND MUST BE WRAPPED IN GEOTECH FABRIC.

STANDARD REVISIONS	
DATE	DESCRIPTION
10/27/17	APPROVED

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

## DRAINAGE STRUCTURES RESTRICTORS



- GENERAL NOTES:**
- CATCH BASIN TO CATCH BASIN CONNECTIONS ARE ALLOWED IN PRIVATE SITES & ALLEYS. ONLY THE DOWNSTREAM CATCH BASIN IS REQUIRED TO HAVE A HALF-TRAP.
  - IF B < 4 FEET, THEN USE A DUCTILE IRON PIPE HALF TRAP AND FLAT TOP SLAB CATCH BASIN AS NECESSARY.
  - INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF DWM FIELD INSPECTOR.

**RESTRICTOR NOTES:**  
THE DWM'S RAIN BLOCKER RESTRICTOR PROGRAM MUST BE MAINTAINED WITH ANY ROADWAY IMPROVEMENT.

THE DESIGN OF ANY ROADWAY IMPROVEMENT MUST CONSIDER LIMITING THE NUMBER OF CATCH BASINS TO THE EXTENT PRACTICAL. THE NUMBER OF EXISTING STRUCTURES SHOULD NOT BE INCREASED.

THE RESTRICTORS CAN BE OBTAINED FROM DWM CENTRAL DISTRICT AT 3901 S. ASHLAND AVE. THE CONTRACTOR SHOULD ARRANGE FOR PICK UP BY CONTACTING 312-747-8736 (7AM TO 3PM, M-F). CONTRACTOR MUST CALL 48 HOURS IN ADVANCE OF PICK UP DATE AND TIME.

FLOW RESTRICTORS MUST BE INSTALLED IN ALL CATCH BASINS OUTSIDE OF THE CENTRAL BUSINESS DISTRICT. RESTRICTORS MUST NOT BE INSTALLED IN CATCH BASINS IN CLOSE PROXIMITY TO VIADUCT AREAS, BUS STOPS, OR EMERGENCY ENTRANCES. THE DWM MUST APPROVE THE NON-INSTALLATION OR REMOVAL OF ANY RESTRICTOR. REQUIREMENTS FOR RESTRICTOR INSTALLATION ARE AS FOLLOWS:

- ARTERIAL STREETS: 3-INCH ORIFICE RESTRICTOR
- BUS ROUTES: 3-INCH ORIFICE RESTRICTOR
- RESIDENTIAL STREETS: 3-INCH VORTEX RESTRICTOR
- ALLEYS: 3-INCH ORIFICE RESTRICTOR IN THE LAST CB.
- CLOSED LIDS ARE REQUIRED ON ALL MANHOLES EXCEPT AT INTERSECTIONS WHERE A PERFORATED LID SHALL BE USED.

CITY OF CHICAGO		DATE	REVISION
DEPARTMENT OF WATER MANAGEMENT			
BUREAU OF ENGINEERING SERVICES			
DESIGNED	BY		A.20
CHECKED	BY		
REVIEWED	BY		
DRAINAGE STRUCTURE DETAILS			OF
			PN

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5/27/2021

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ON RAILROAD R-O-W  
CALL BEFORE YOU DIG  
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ISSUED FOR  
CONSTRUCTION

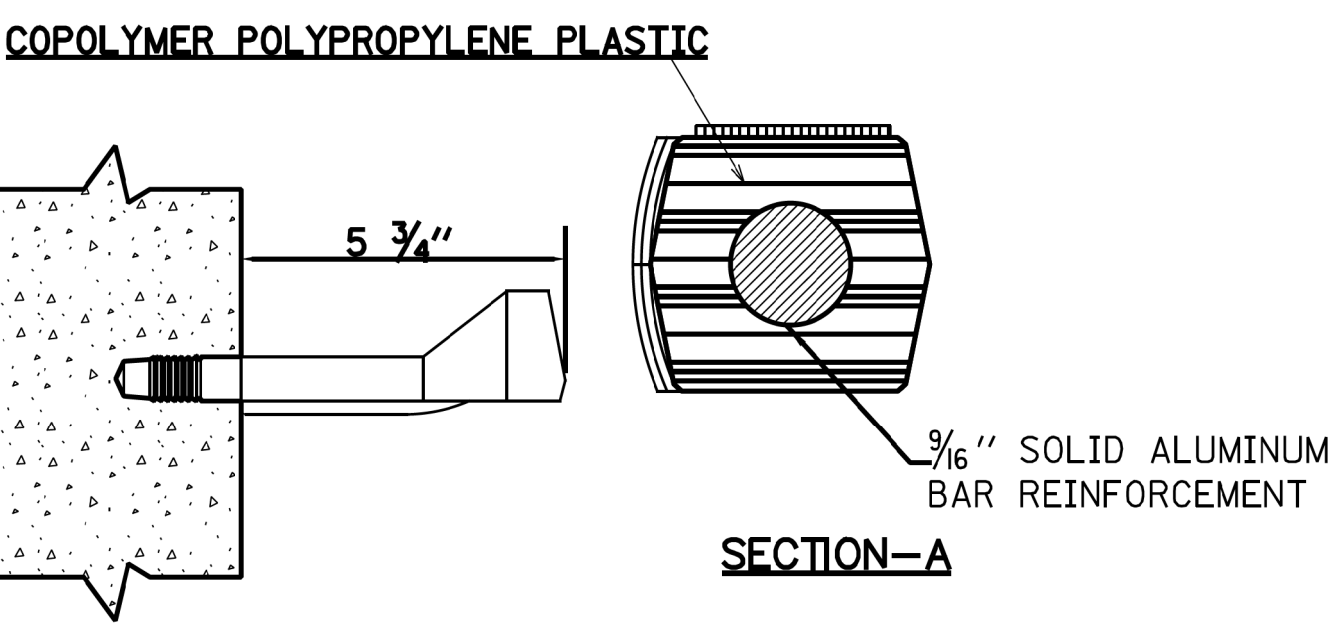
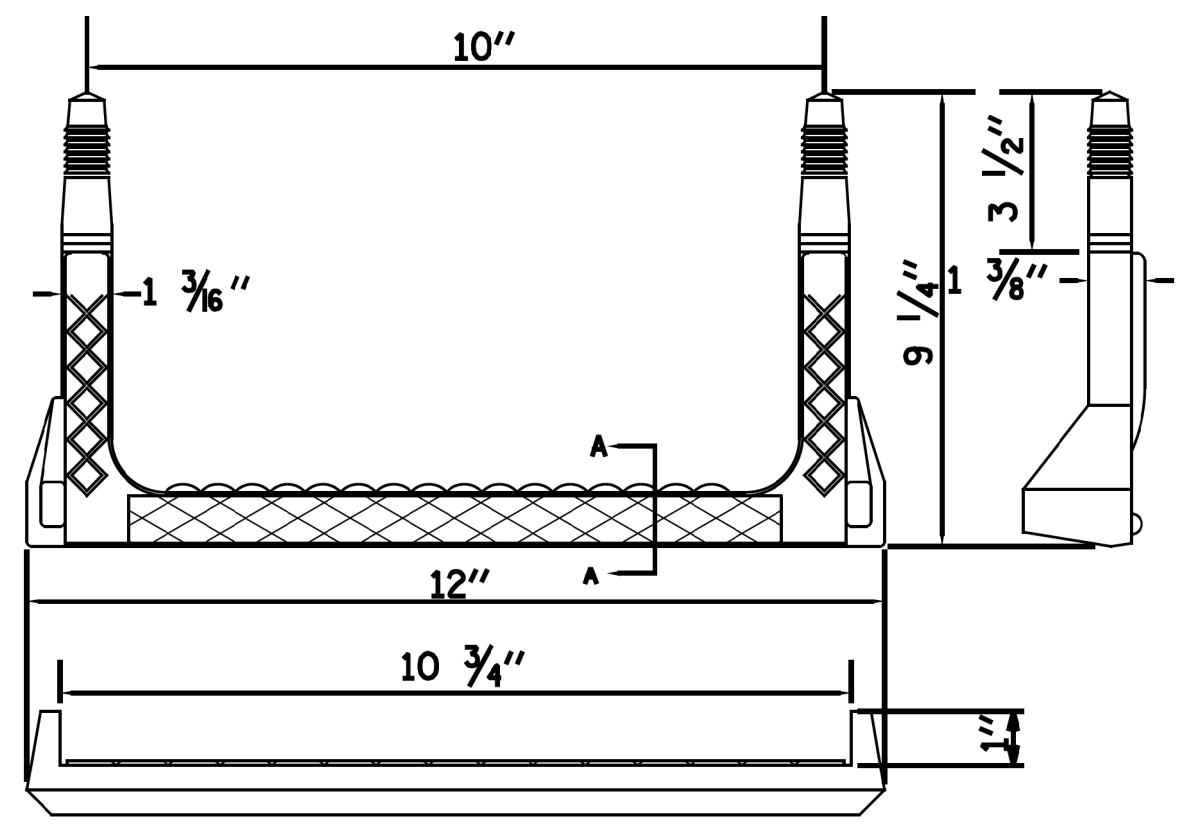
REVISION	BY	DATE	DESCRIPTION

**LI ENGINEERING, LTD.**  
Consulting Engineers  
Westmont, Illinois

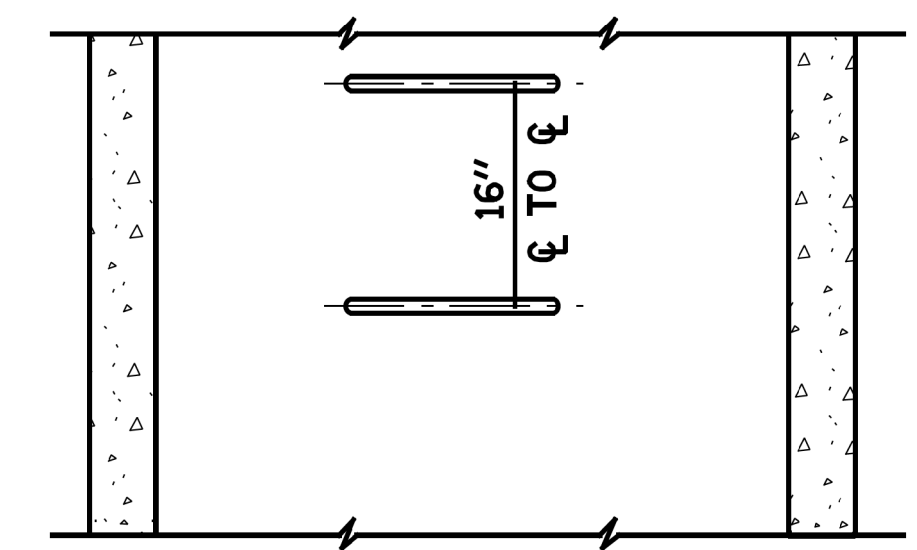
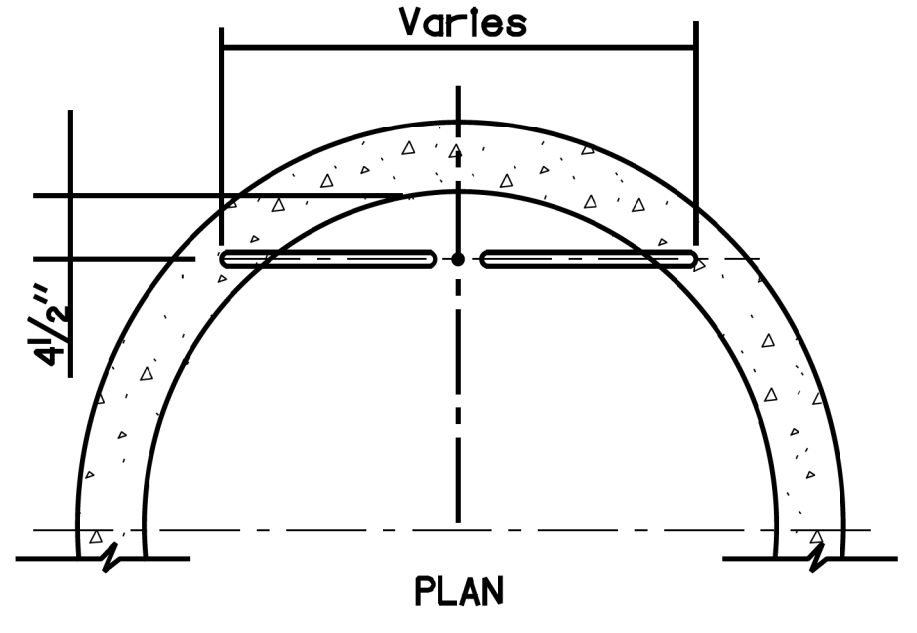


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CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S.	SHEET NUMBER R-013

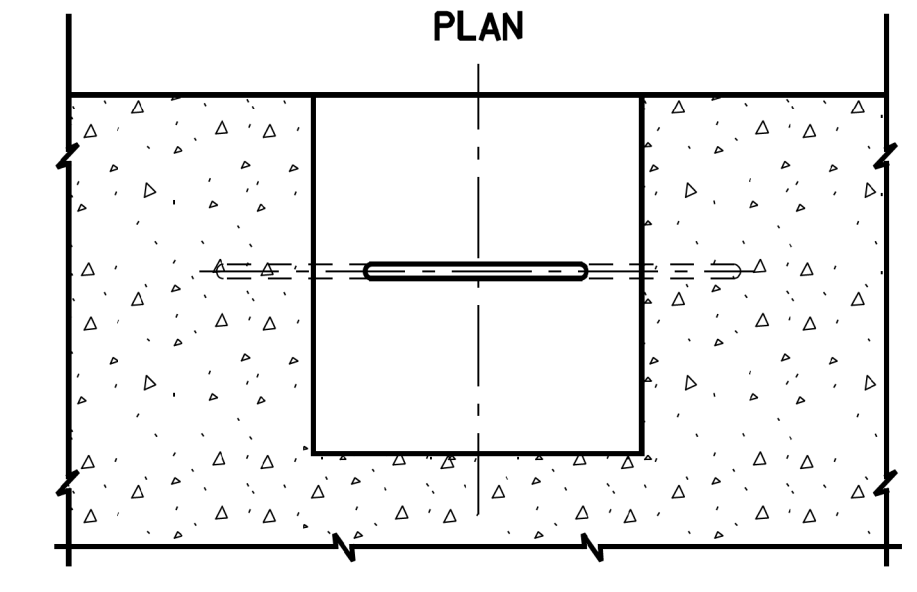
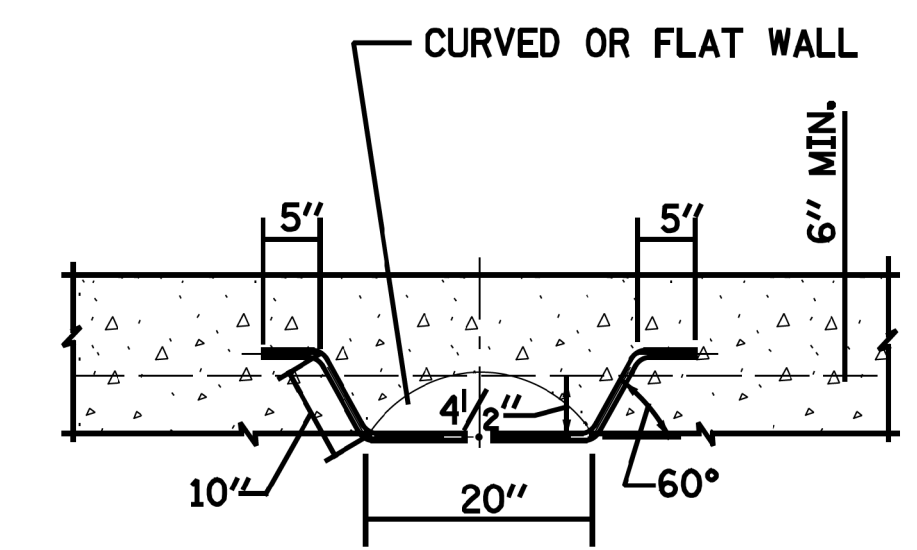
<b>UNION PACIFIC RAILROAD</b>		Director Structures Design	
LOCATION & DESCRIPTION: CHICAGO, IL			
ROCKWELL SUB / UPRR VIADUCT CLOSURE			
15TH ST STRUCTURE REMOVAL			
SHEET TITLE:		SEWER CONSTRUCTION DETAILS	



RECTANGULAR STEP LADDER RUNG  
 FOR USE ONLY IN 48" DIAMETER  
 AND LARGER MANHOLES.



ELEVATION  
 TYPE X  
 RISER



ELEVATION  
 TYPE Y  
 BASE

- NOTES:
1. VERTICAL SPACING = 16" O.C., ON VERTICAL WALL ONLY.
  2. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1000 LBS. WHEN INSTALLED.
  3. ALL STEPS SHALL BE VERTICALLY ALIGNED IN A STRAIGHT LINE.
  4. MINIMUM CONCRETE STRENGTH MUST BE 3000 PSI
  5. HOLES- PREFORMED/DRILLED
    - A. HOLES MUST BE PARALLEL
    - B. HOLES MUST BE 10" CENTERED, 1" DIAMETER
    - C. MINIMUM DEPTH- 3 1/2" TO 3 3/4"

#FILES  
 #DATE#

STANDARD REVISIONS	
DATE	DESCRIPTION
5/8/17	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

<b>CITY OF CHICAGO</b> DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		<b>A.22</b>
LADDER RUNGS		OF
		PN

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 CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

**LIN ENGINEERING, LTD.**  
 Consulting Engineers  
 Westmont, Illinois

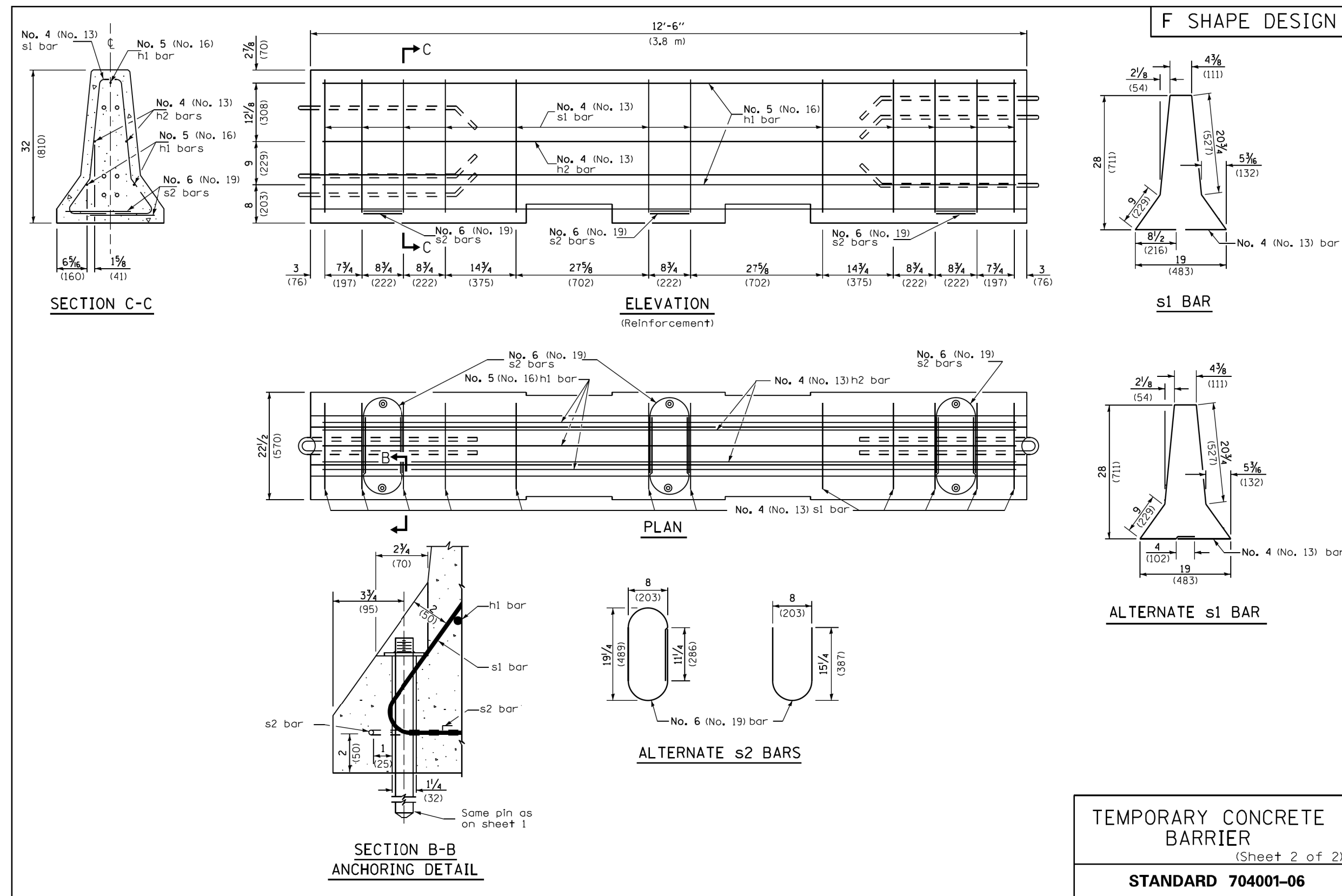
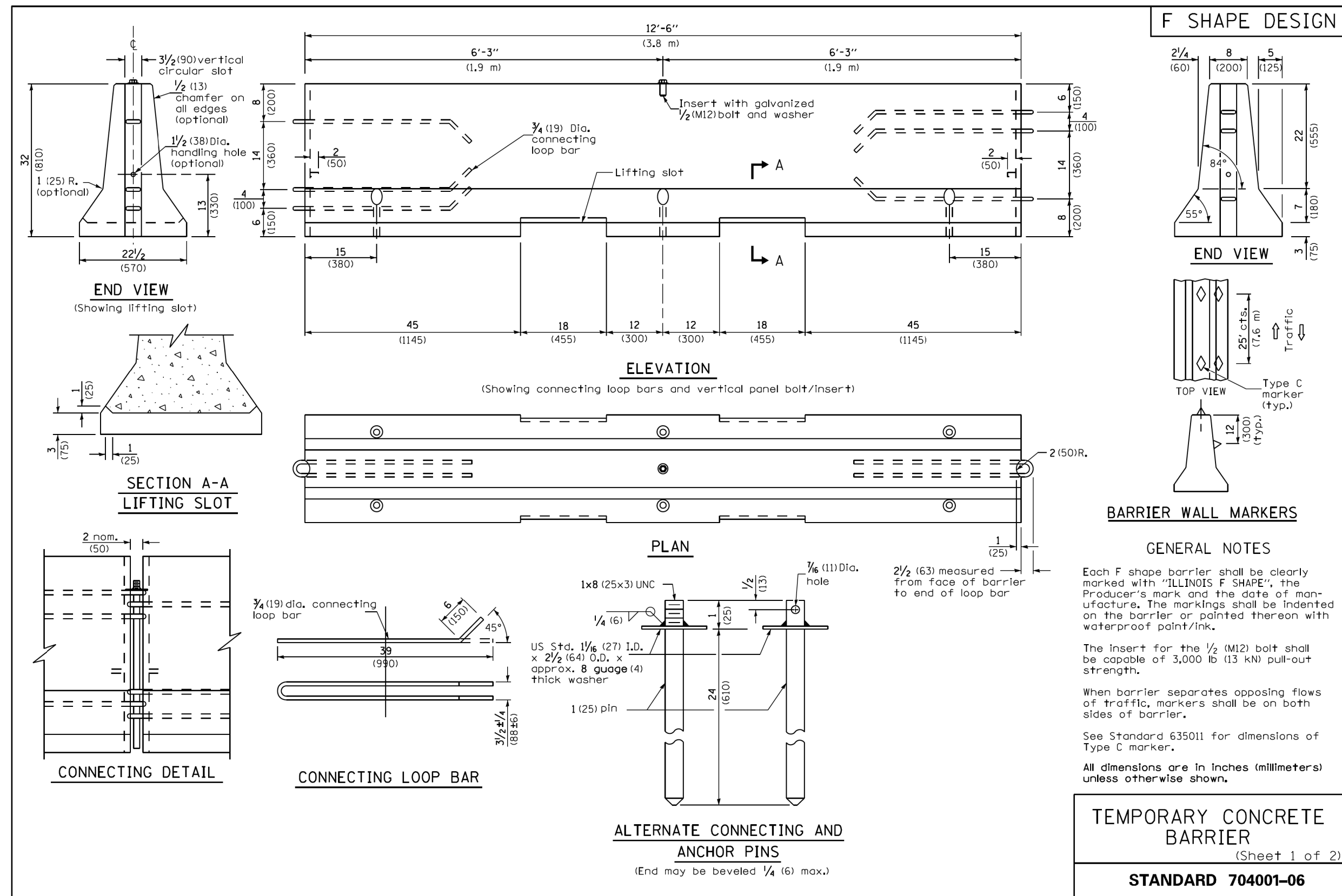


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CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER R-014

<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION: CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL	
SHEET TITLE: SEWER CONSTRUCTION DETAILS	

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 5/27/2021

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 5/27/2021



**ESTIMATED QUANTITIES**

LOCATION	UNIT	TOTAL
MAYPOLE STREET	L.F.	75.0

QUANTITIES ARE SHOWN FOR INFORMATION ONLY.

**WARNING !**  
**FIBER OPTIC CABLE**  
**ON RAILROAD R-O-W**  
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**CONSTRUCTION**

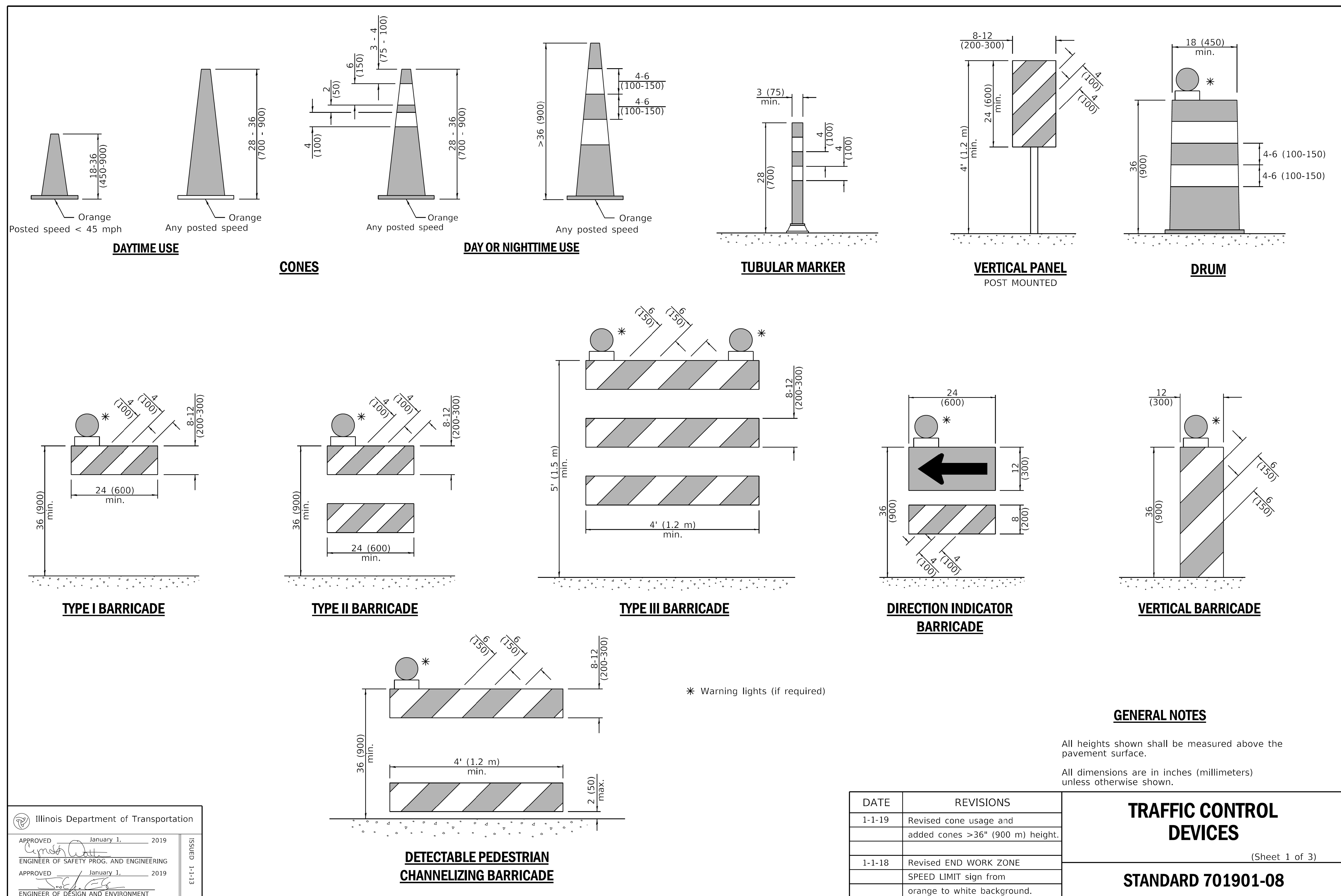
REVISION	BY	DATE	DESCRIPTION



DRAWN BY: RC	WORK ORDER: 31876
CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER R-015

<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION: CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL	
SHEET TITLE: SEWER CONSTRUCTION DETAILS	

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 5/27/2021



**GENERAL NOTES**

All heights shown shall be measured above the pavement surface.  
 All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 m) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

**TRAFFIC CONTROL DEVICES**

(Sheet 1 of 3)

**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019  
 ENGINEER OF DESIGN AND ENVIRONMENT

**WARNING !**  
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ISSUED FOR CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

**LIN ENGINEERING, LTD.**  
 Consulting Engineers  
 Westmont, Illinois

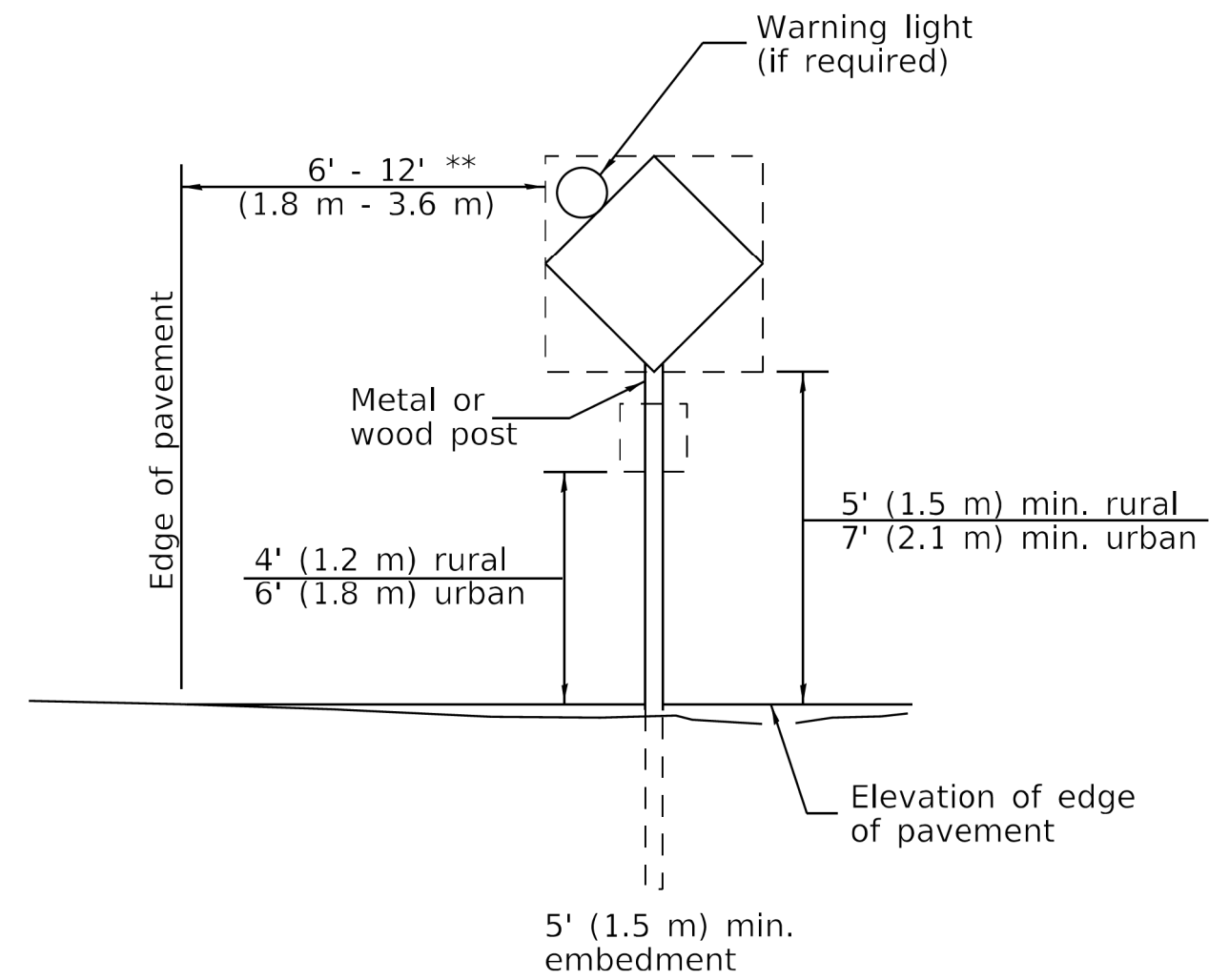


DRAWN BY: RC	WORK ORDER: 31876
CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER: R-016

**UNION PACIFIC RAILROAD**  
 Director Structures Design

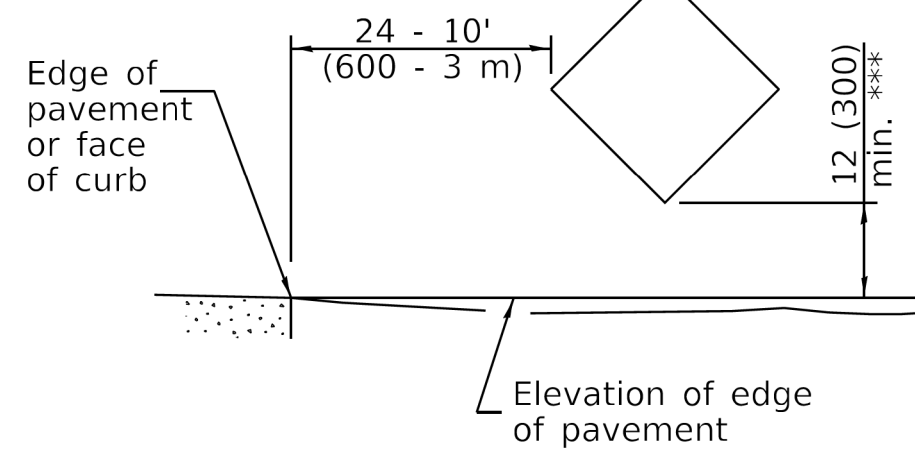
LOCATION & DESCRIPTION: CHICAGO, IL  
 ROCKWELL SUB / UPRR VIADUCT CLOSURE  
 15TH ST STRUCTURE REMOVAL

SHEET TITLE: IDOT HIGHWAY STANDARD



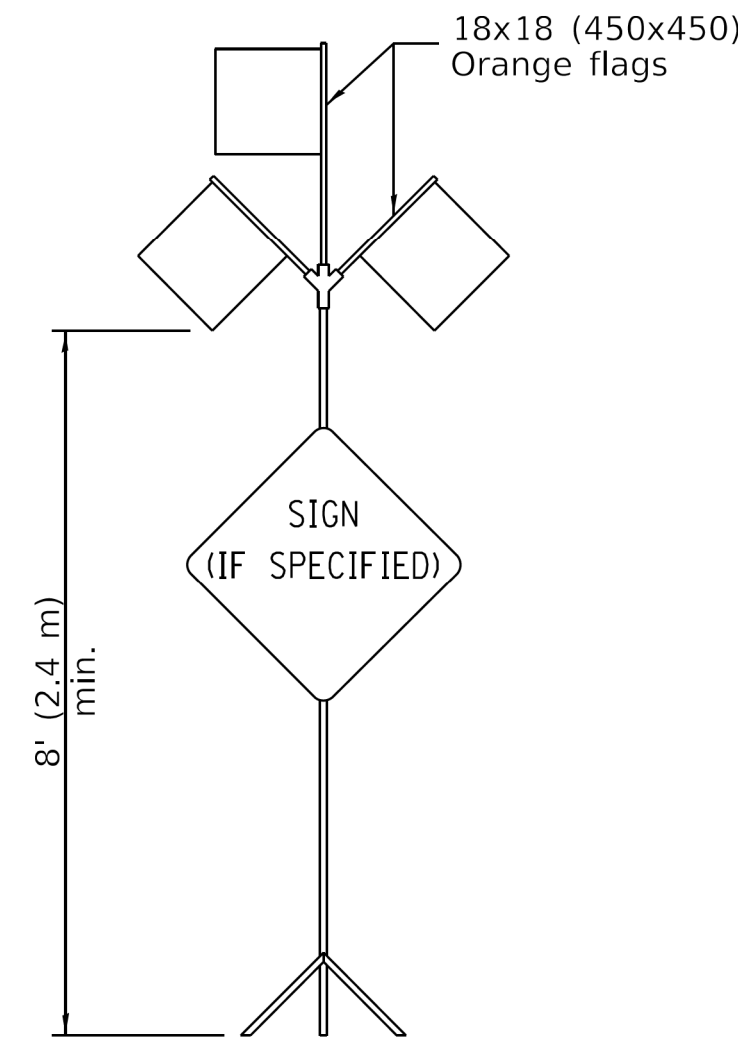
**POST MOUNTED SIGNS**

\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



**HIGH LEVEL WARNING DEVICE**

ROAD CONSTRUCTION NEXT X MILES G20-1104(0)-6036	END CONSTRUCTION G20-1105(0)-6024
--	--------------------------------------

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

**WORK LIMIT SIGNING**

WORK ZONE W21-III5(0)-3618
SPEED LIMIT R2-1-3648
<b>XX</b>
PHOTO ENFORCED R10-1108p-3618 ****
\$XXX FINE MINIMUM R2-1106p-3618

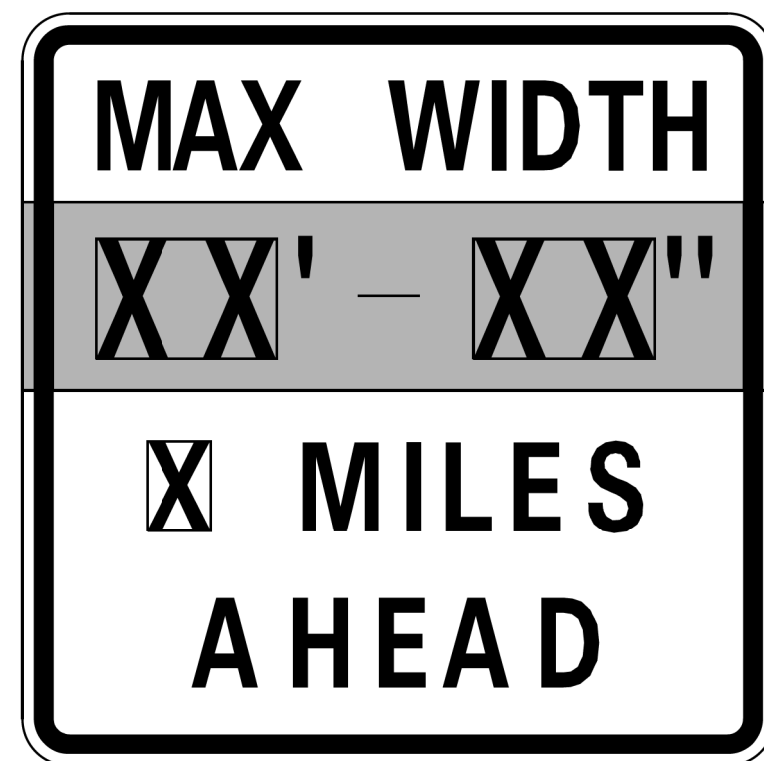
Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT G20-1103-6036
--

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

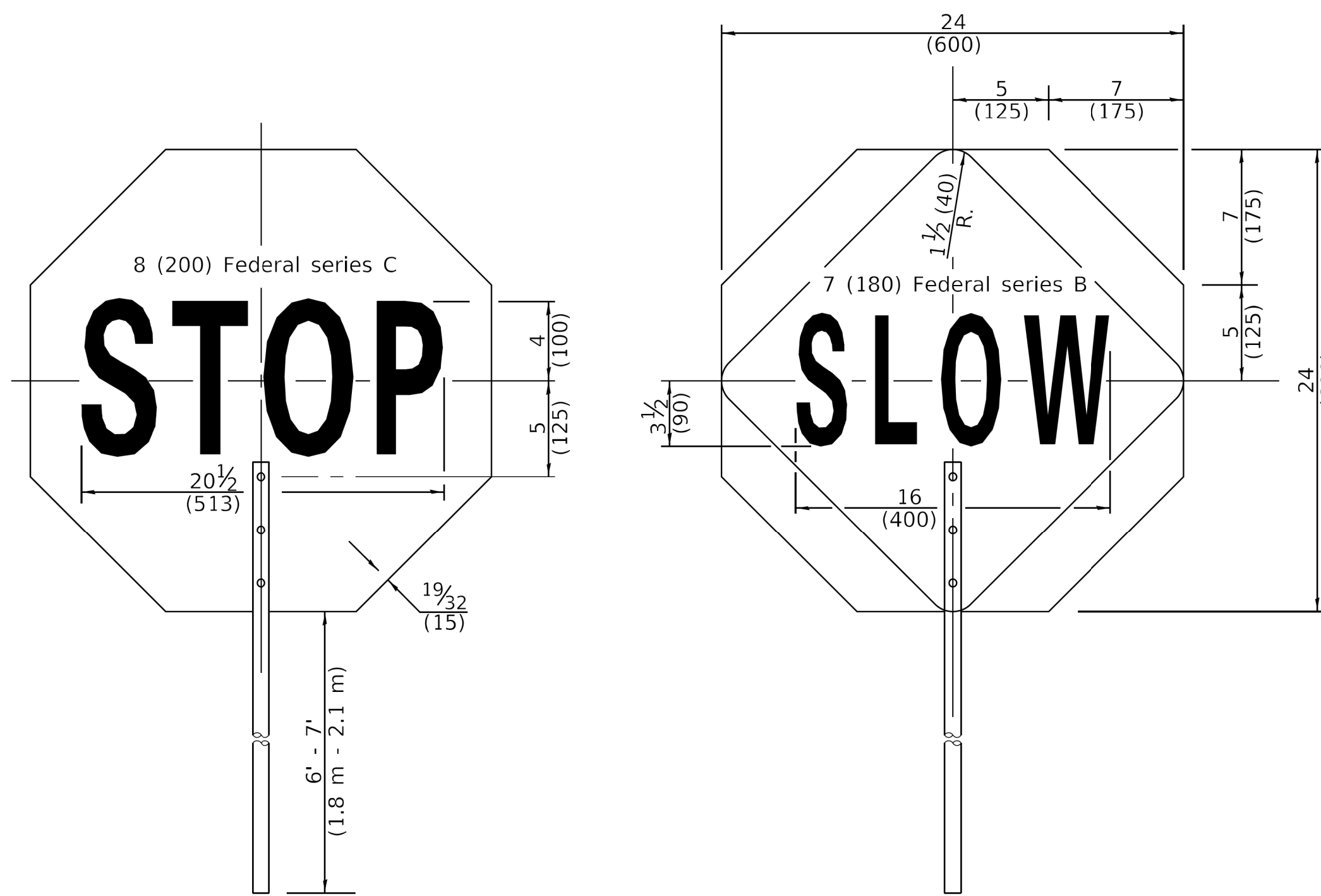
\*\*\*\* R10-1108p shall only be used along roadways under the jurisdiction of the State.



W12-1103-4848

**WIDTH RESTRICTION SIGN**

XX'-XX" width and X miles are variable.



FRONT SIDE

REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**

Illinois Department of Transportation	
APPROVED January 1, 2019 <i>[Signature]</i> ENGINEER OF SAFETY PROG. AND ENGINEERING	ISSUED 1-1-13
APPROVED January 1, 2019 <i>[Signature]</i> ENGINEER OF DESIGN AND ENVIRONMENT	

**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

**STANDARD 701901-08**

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CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

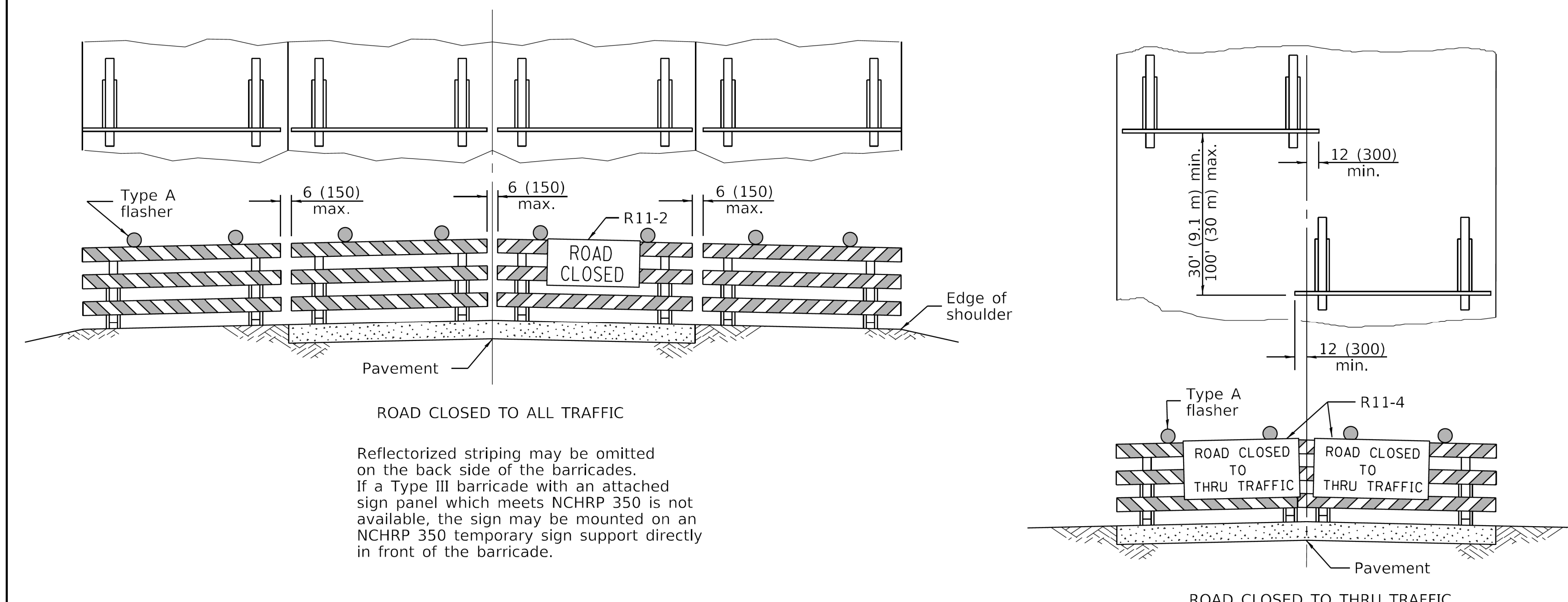
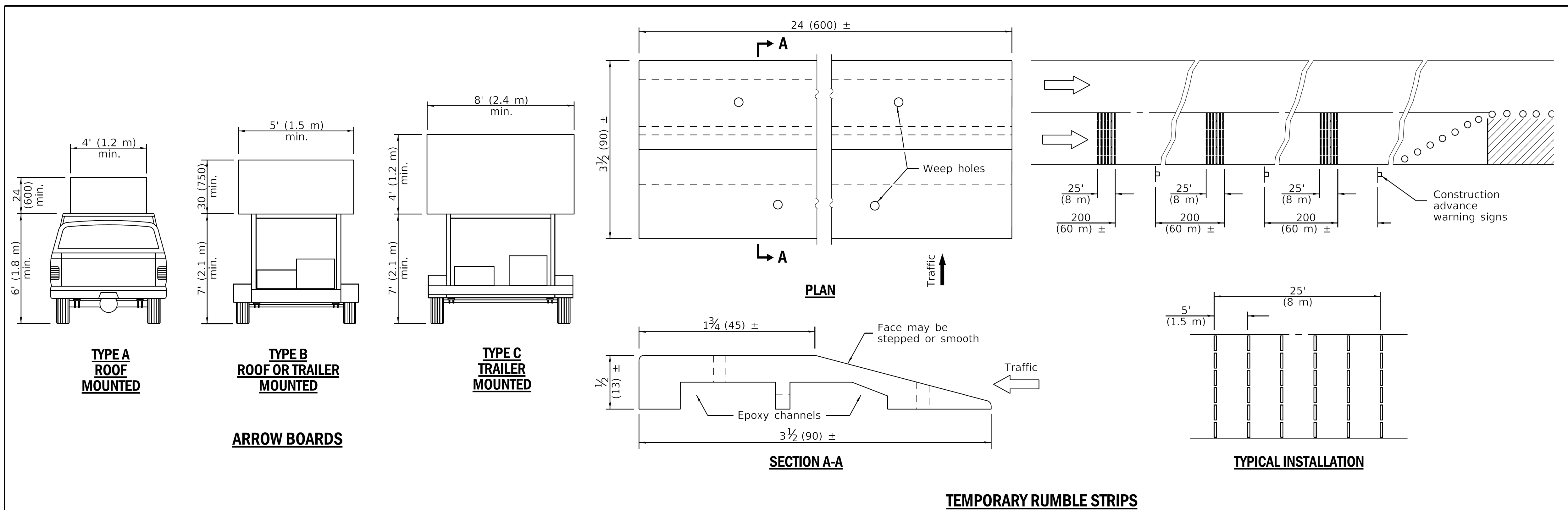


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CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER: R-017

<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION: CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL	
SHEET TITLE: IDOT HIGHWAY STANDARD	

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 5/27/2021



Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.

**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

**TRAFFIC CONTROL DEVICES**  
 (Sheet 3 of 3)  
**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

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ISSUED FOR  
 CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

**LIN ENGINEERING, LTD.**  
 Consulting Engineers  
 Westmont, Illinois



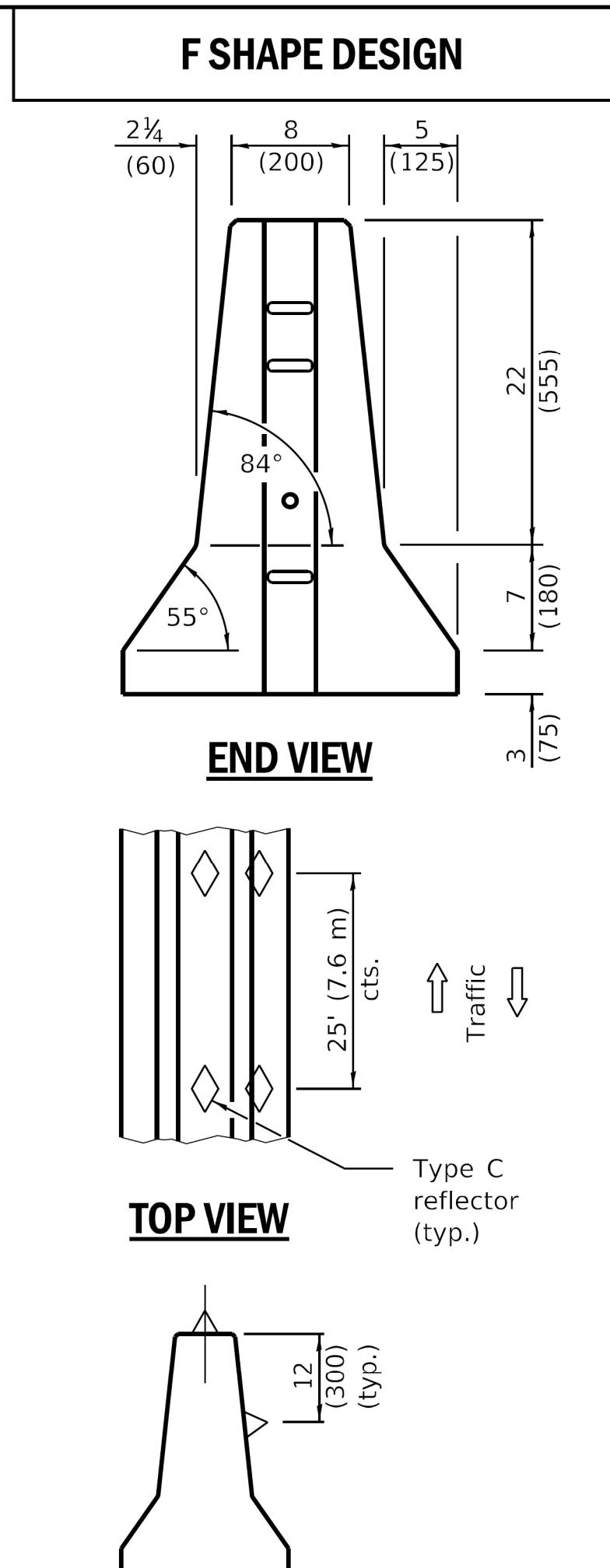
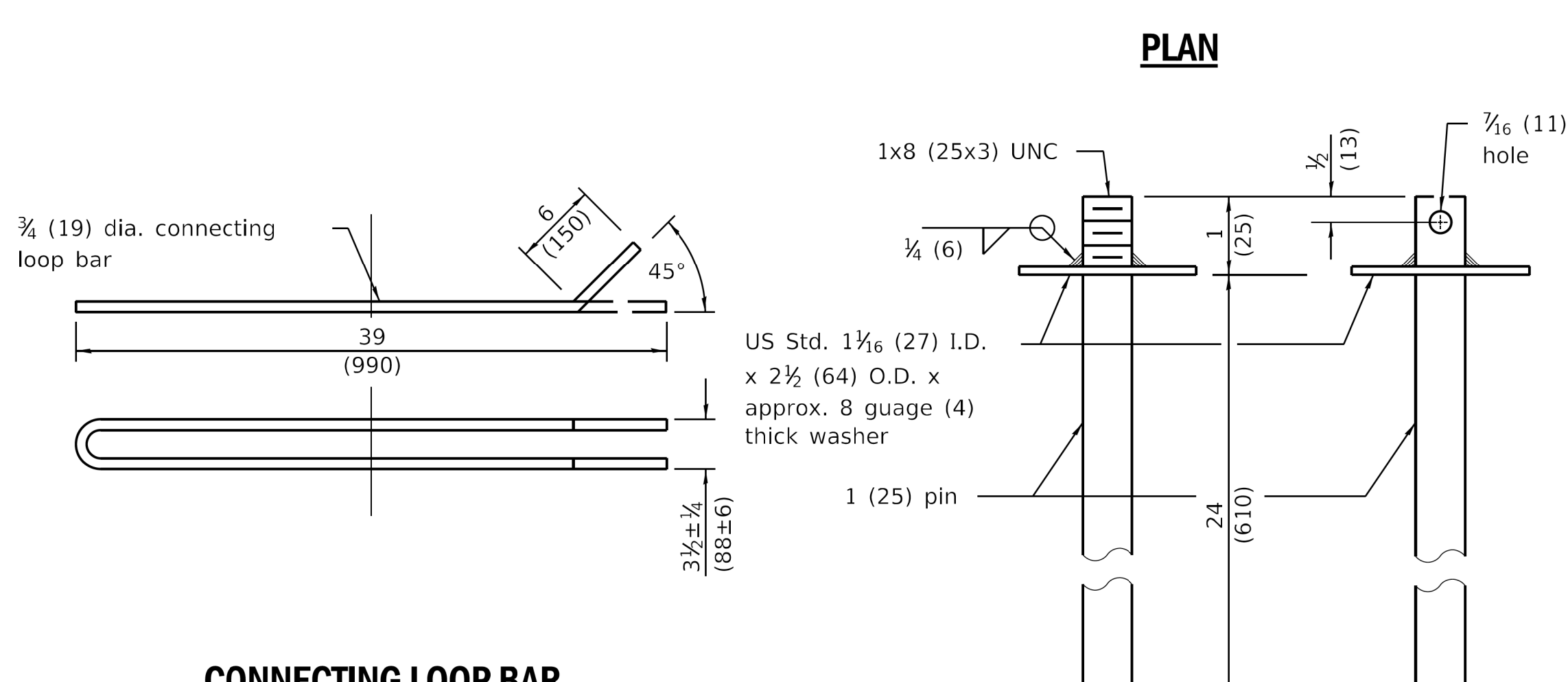
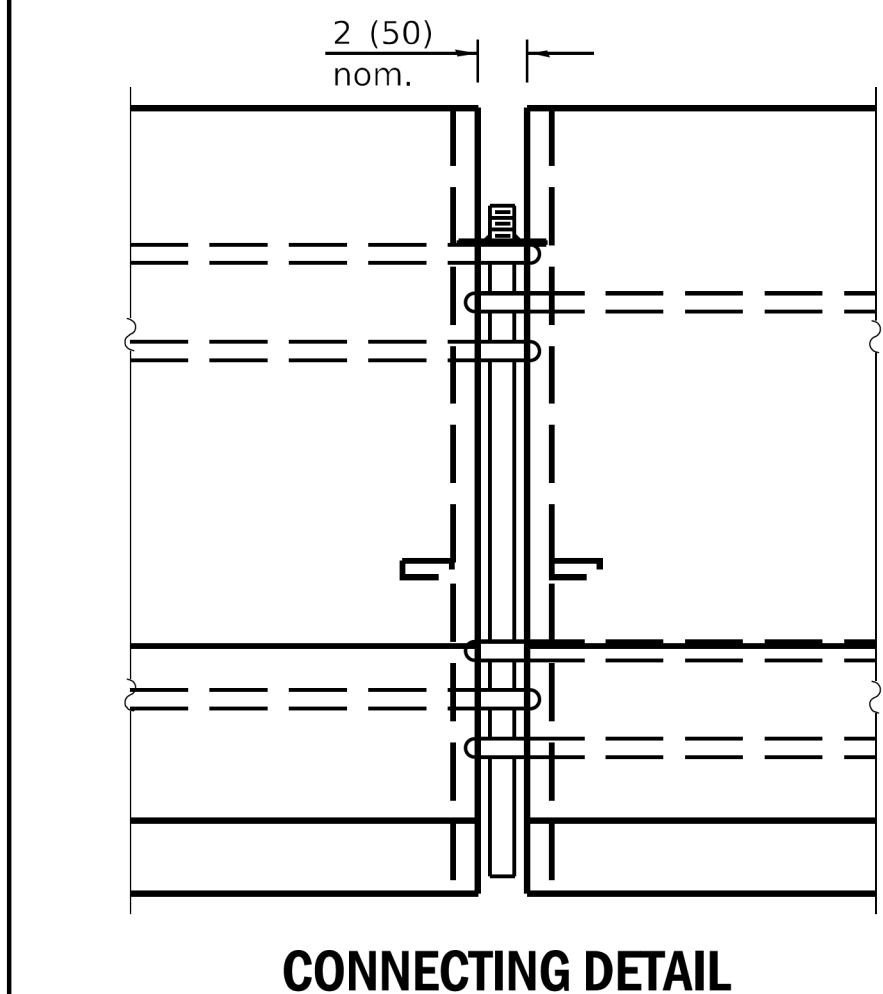
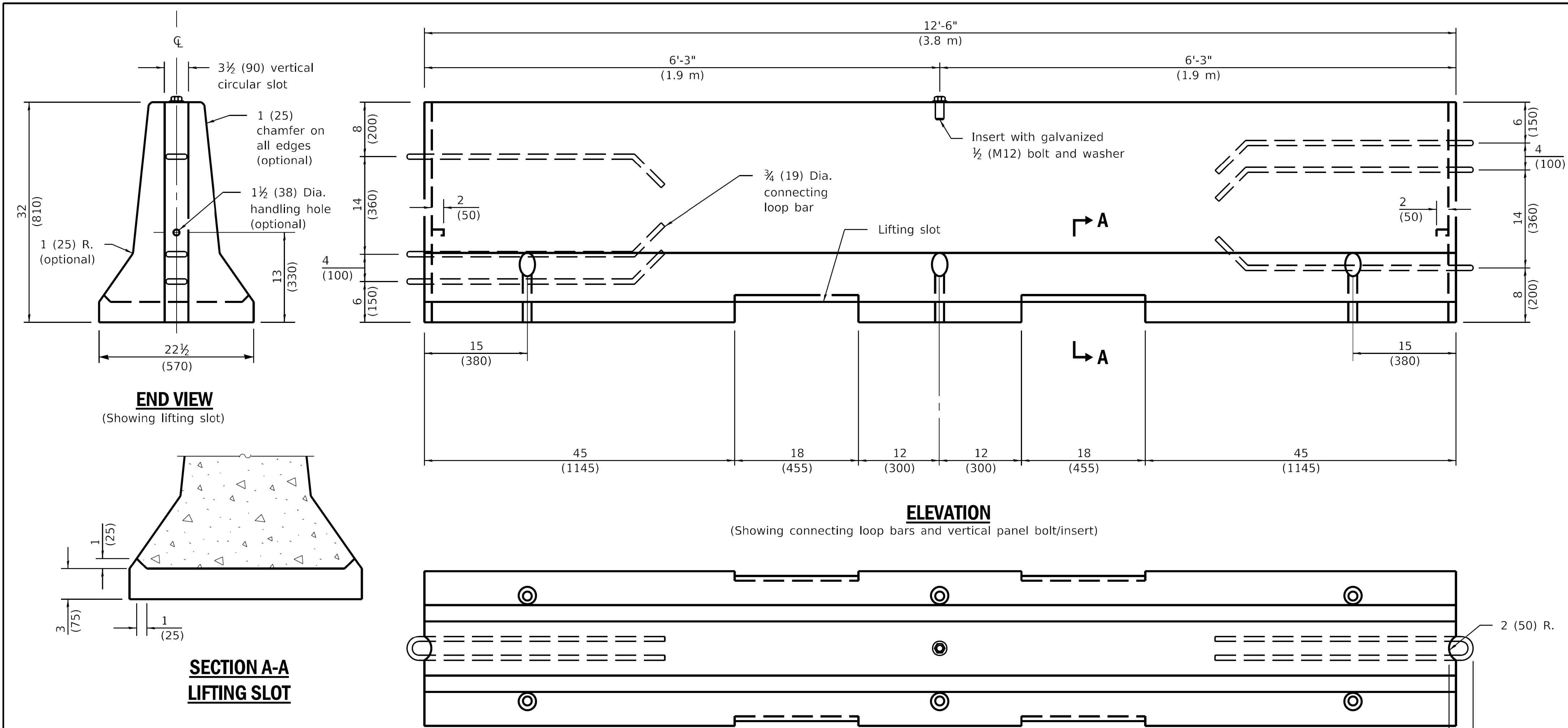
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SCALE: N.T.S	SHEET NUMBER R-018

**UNION PACIFIC RAILROAD**  
 Director Structures Design

LOCATION & DESCRIPTION:  
 CHICAGO, IL  
 ROCKWELL SUB / UPRR VIADUCT CLOSURE  
 15TH ST STRUCTURE REMOVAL

SHEET TITLE:  
 IDOT HIGHWAY STANDARD

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 5/27/2021



**GENERAL NOTES**

Each F shape barrier shall be clearly marked with "ILLINOIS F SHAPE", the Producer's mark and the date of manufacture. The markings shall be indented on the barrier or painted thereon with waterproof paint/ink.

The insert for the 1/2 (M12) bolt shall be capable of 3,000 lb (13 kN) pull-out strength.

When barrier separates opposing flows of traffic markers shall be on both sides of barrier.

See Standard 782006 for dimensions of Type C reflector.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
4-1-16	Rev. opt. chamfer on all edges to 1 (25). Reference to Std. 635011 now 782006.
1-1-12	Omitted 'ALTERNATE' from connecting and anchoring pins detail.

**TEMPORARY CONCRETE BARRIER**  
(Sheet 1 of 2)

**STANDARD 704001-08**

Illinois Department of Transportation

PASSED April 1, 2016  
*Michael Brand*  
ENGINEER OF POLICY AND PROCEDURES

APPROVED April 1, 2016  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 10-1-01  
20-1-01

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REVISION	BY	DATE	DESCRIPTION

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Consulting Engineers  
Westmont, Illinois



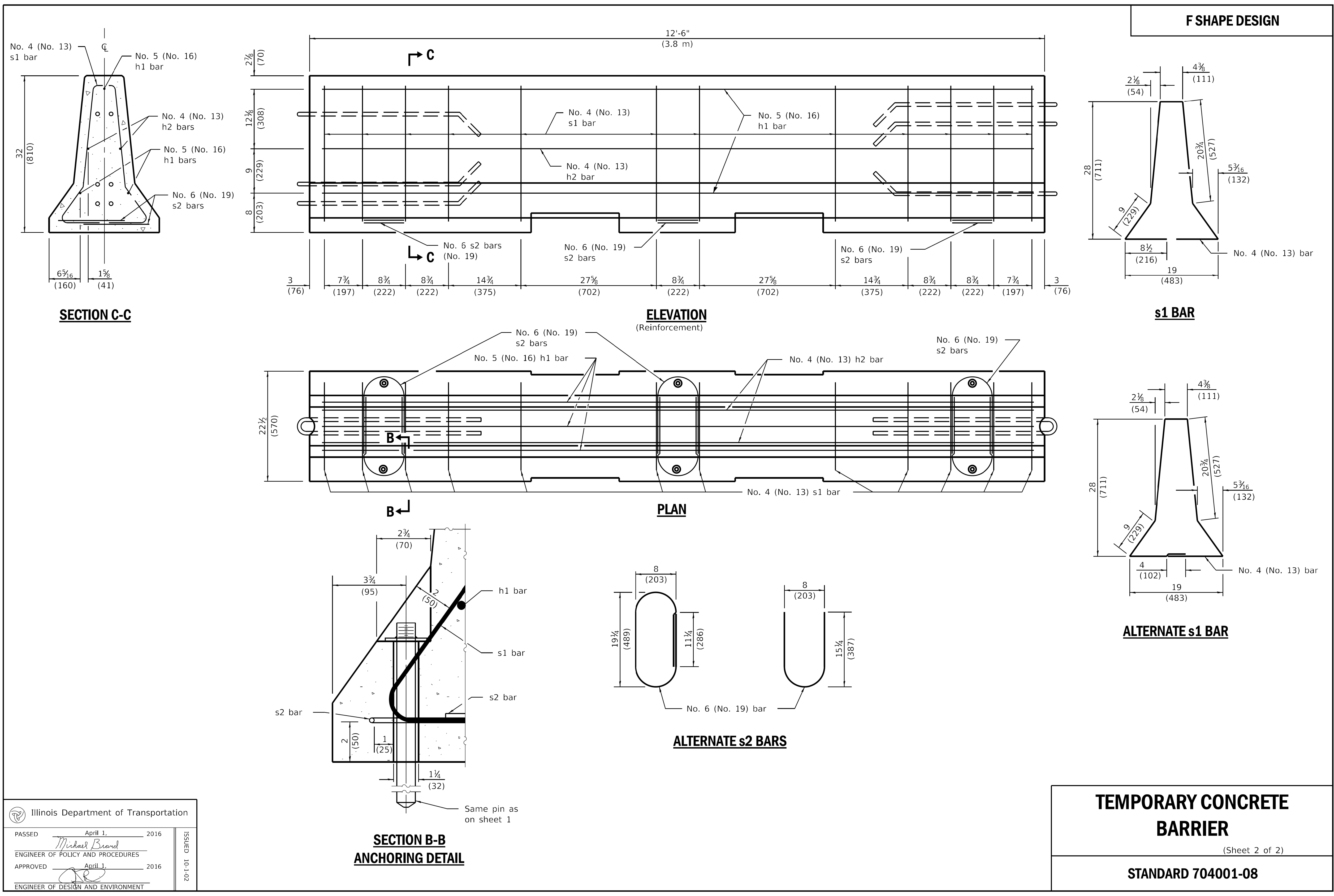
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DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER: R-019

**UNION PACIFIC RAILROAD**  
Director Structures Design

LOCATION & DESCRIPTION: CHICAGO, IL  
ROCKWELL SUB / UPRR VIADUCT CLOSURE  
15TH ST STRUCTURE REMOVAL

SHEET TITLE: IDOT HIGHWAY STANDARD

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 5/27/2021



Illinois Department of Transportation	
PASSED	April 1, 2016
Michael Brand ENGINEER OF POLICY AND PROCEDURES	
APPROVED	April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT	
ISSUED	10-1-02

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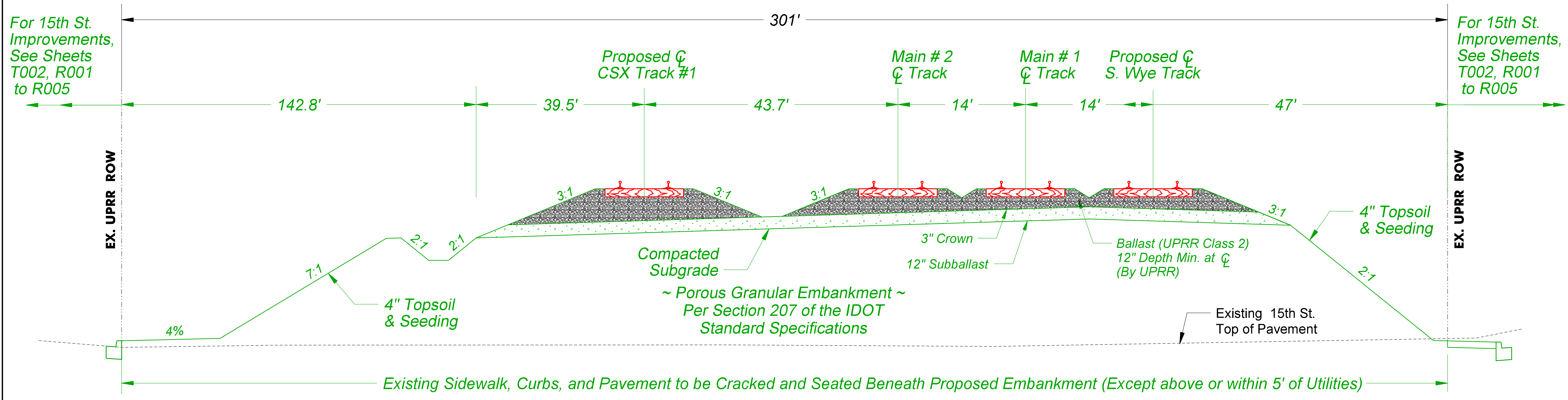
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REVISION	BY	DATE	DESCRIPTION



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CHECKED BY:	ST	PID:	
DATE:	5/28/21	BUDGET REF:	
SCALE:	N.T.S	SHEET NUMBER:	R-020

<b>UNION PACIFIC RAILROAD</b> Director Structures Design	LOCATION & DESCRIPTION:	CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL
	SHEET TITLE:	IDOT HIGHWAY STANDARD



**Typical Track Section  
15th St. Viaduct Closure**

Looking South (Up Station)  
Sta. 39+21 To Sta. 39+96  
Not To Scale

**NOTES:**

1. UPRR forces will perform all track work, with the exception of removal of existing track. UPRR will cut the existing rails and the contractor shall remove and dispose of all track material with bridge removal work.
2. The contractor will be responsible for constructing proposed embankment and track bed up to the top of the subballast layer. UPRR will furnish & install all ballast, ties, rail, and other track materials.
3. Existing and new track within the project limits will be surfaced and lined by UPRR forces once all other work is complete.

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REVISION	BY	DATE	DESCRIPTION

**benesch**  
Alfred Benesch & Company  
35 W. Wacker Drive Suite 3300  
Chicago, Illinois 60601  
312-565-0450 Job No. 210070.11

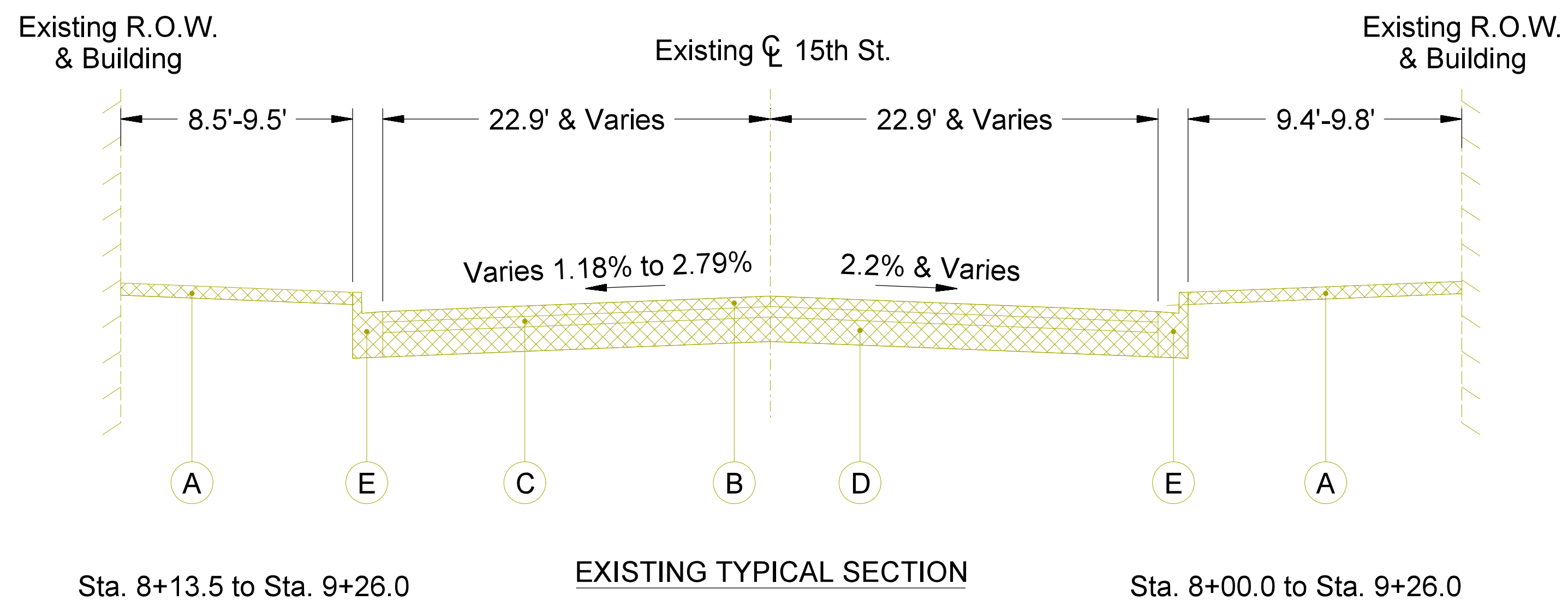


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CHECKED BY:	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER T-001

**UNION PACIFIC RAILROAD** Director Structures Design  
LOCATION & DESCRIPTION: CHICAGO, IL  
ROCKWELL SUB / UPRR VIADUCT CLOSURE  
OGDEN AVE STRUCTURE REMOVAL  
SHEET TITLE: RAILROAD TYPICAL SECTION

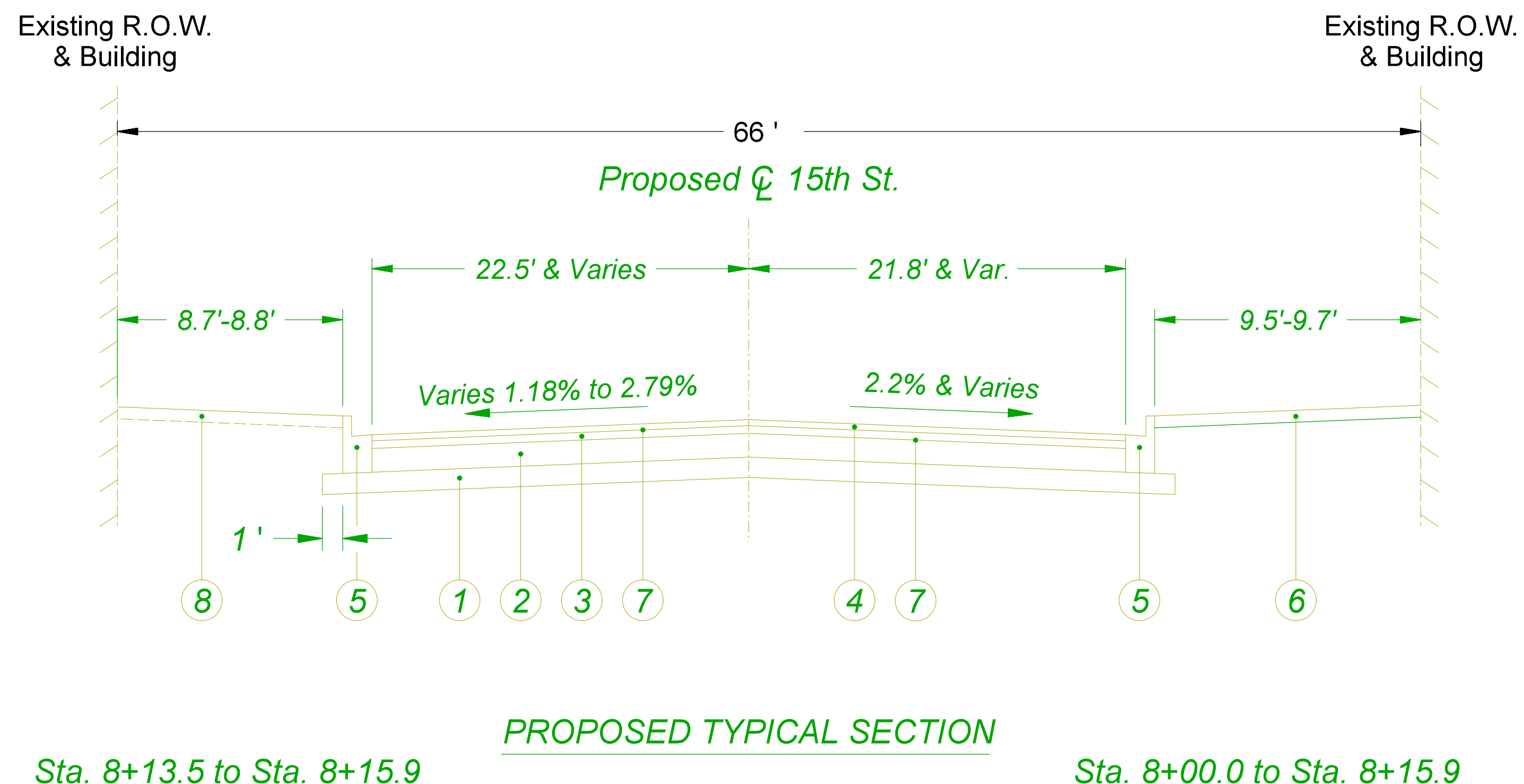
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5/27/2021

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 5/27/2021



**Existing Legend**

- A. P.C. Concrete Sidewalk, 5"
- B. HMA Surface Course, 1 3/4"
- C. HMA Binder Course, 2 1/4"
- D. P.C. Concrete Base Course, 7"
- E. Curb & Gutter



**Proposed Legend**

- 1. 6" Sub-base Granular Material, Ty. B
- 2. 7" P.C. Concrete Base Course
- 3. 2 1/4" Hot-Mix-Asphalt Binder Course, IL-19.0, N50
- 4. 1 3/4" Hot-Mix-Asphalt Surface Course, Mix "D", N50
- 5. Combination Concrete Curb & Gutter, Type B-6.12
- 6. P.C. Concrete Sidewalk, 5"
- 7. Bituminous Material (Prime Coat)
- 8. Sodding & Topsoil, 4"

**WARNING !**  
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**ON RAILROAD R-O-W**  
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**ISSUED FOR**  
**CONSTRUCTION**

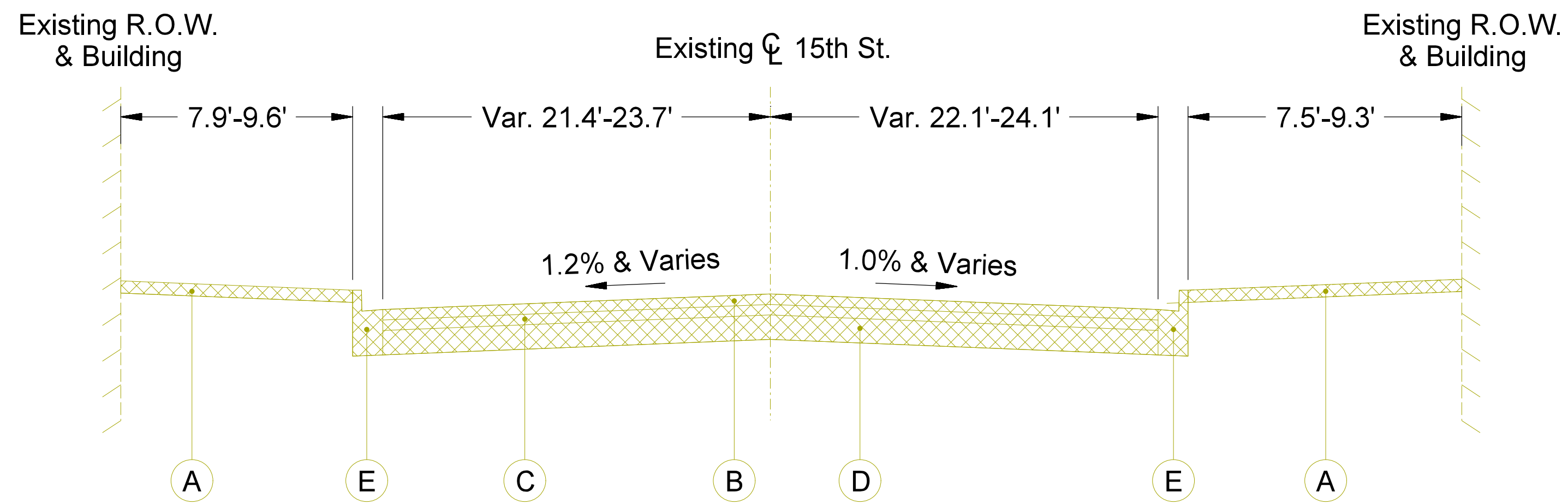
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CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER T-002

<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION: CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL	
SHEET TITLE: ROADWAY TYPICAL SECTION	

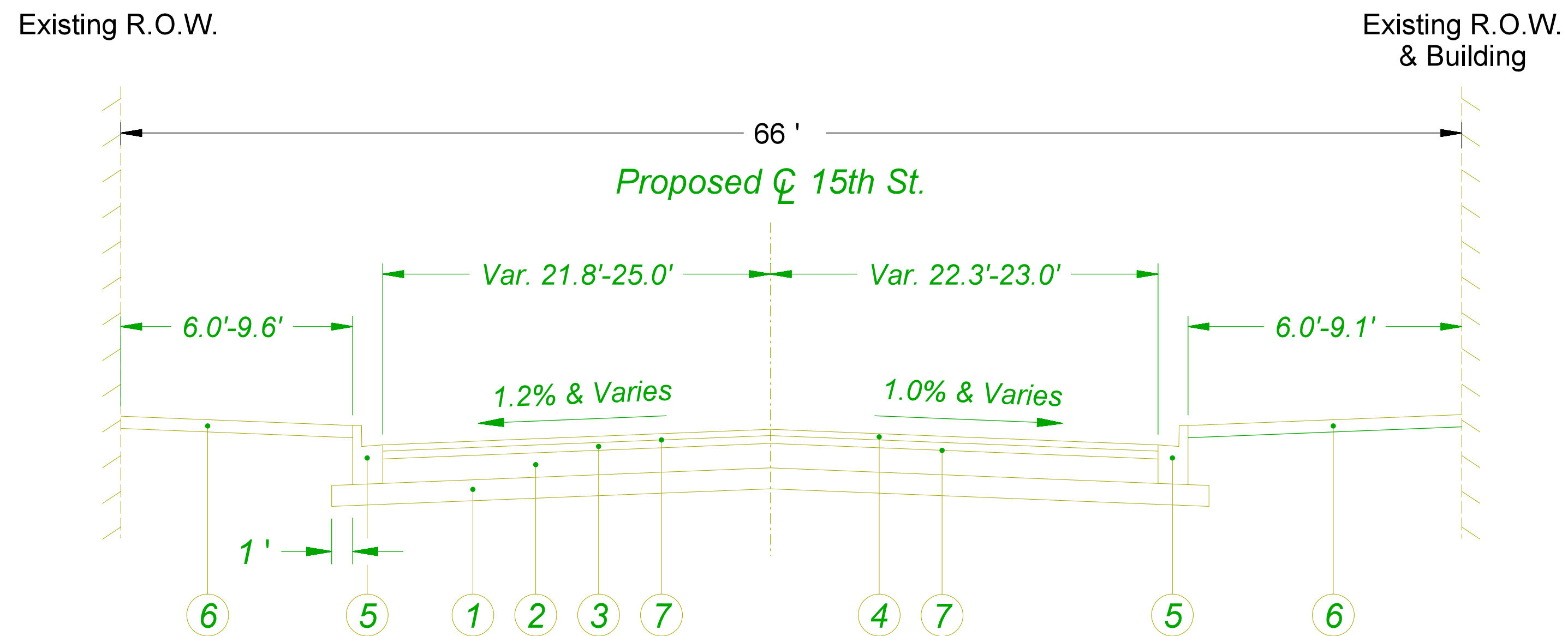
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 5/27/2021



**EXISTING TYPICAL SECTION**  
Sta. 10+93.4 to Sta. 11+84.3

**Existing Legend**

- A. P.C. Concrete Sidewalk, 5"
- B. HMA Surface Course, 1 3/4"
- C. HMA Binder Course, 2 1/4"
- D. P.C. Concrete Base Course, 7"
- E. Curb & Gutter



**PROPOSED TYPICAL SECTION**  
Sta. 11+25.8 to Sta. 11+84.3

**Proposed Legend**

- 1. 6" Sub-base Granular Material, Ty. B
- 2. 7" P.C. Concrete Base Course
- 3. 2 1/4" Hot-Mix-Asphalt Binder Course, IL-19.0, N50
- 4. 1 3/4" Hot-Mix-Asphalt Surface Course, Mix "D", N50
- 5. Combination Concrete Curb & Gutter, Type B-6.12
- 6. P.C. Concrete Sidewalk, 5"
- 7. Bituminous Material (Prime Coat)
- 8. Sodding & Topsoil, 4"

**WARNING !**  
**FIBER OPTIC CABLE**  
**ON RAILROAD R-O-W**  
CALL BEFORE YOU DIG  
1-800-336-9193

**ISSUED FOR**  
**CONSTRUCTION**

REVISION	BY	DATE	DESCRIPTION



DRAWN BY: RC	WORK ORDER: 31876
CHECKED BY: ST	PID:
DATE: 5/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER T-003

<b>UNION PACIFIC RAILROAD</b>	Director Structures Design
LOCATION & DESCRIPTION: CHICAGO, IL ROCKWELL SUB / UPRR VIADUCT CLOSURE 15TH ST STRUCTURE REMOVAL	
SHEET TITLE: ROADWAY TYPICAL SECTION	

