

TOWN OF GLASTONBURY

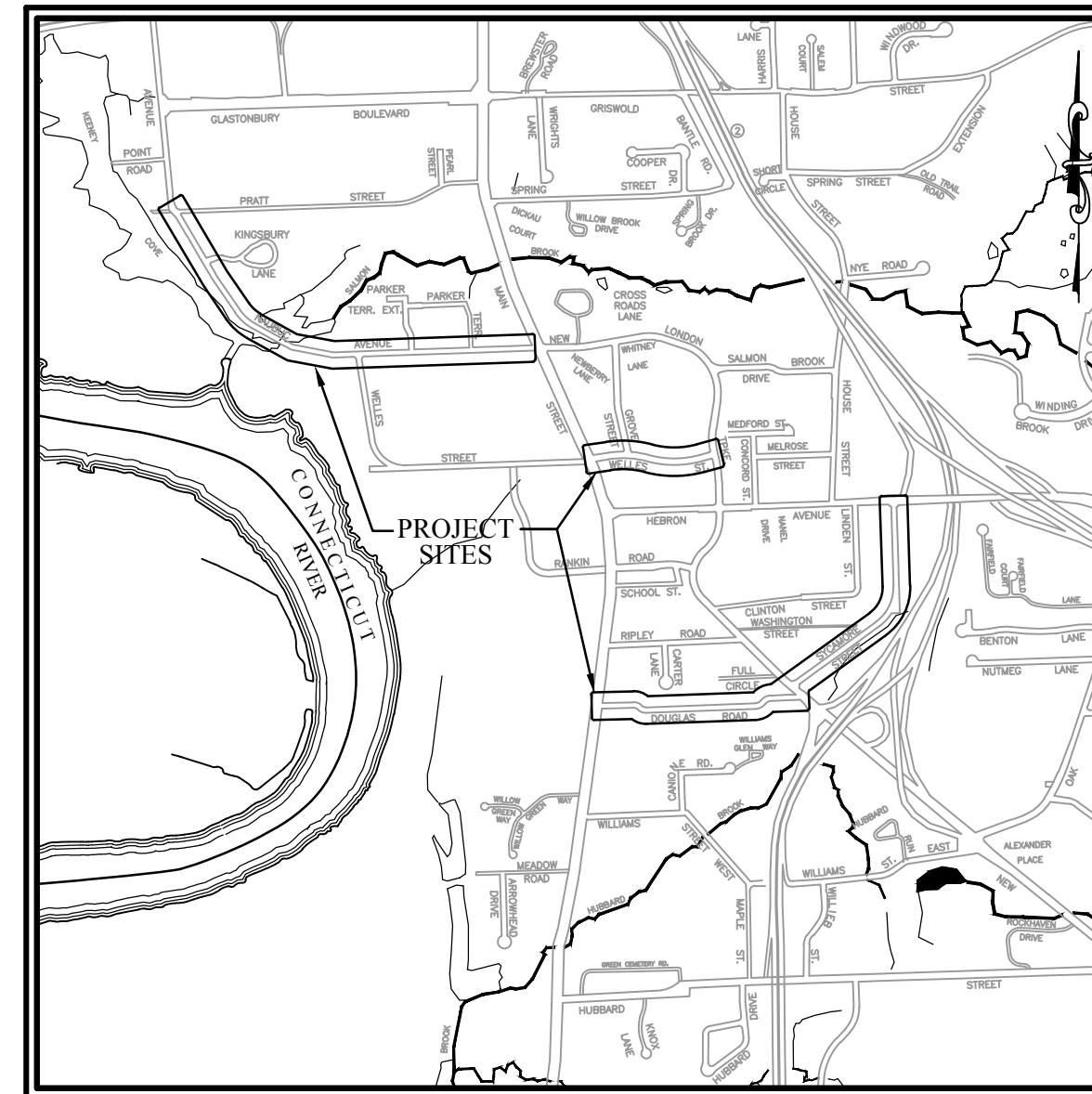
Storm Drainage and Sidewalk Ramp Rehabilitation

located on

DOUGLAS ROAD, SYCAMORE STREET, WELLES STREET AND NAUBUC AVENUE

SHEET INDEX

SHEET NO.	DESCRIPTION:
1	COVER SHEET
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6	SIDEWALK RAMP DETAIL PLAN
7	STANDARD DETAILS
8	CTDOT STANDARD DETAIL SHEET – HW-586_08 CATCH BASIN FRAMES AND GRATES
9	CTDOT STANDARD DETAIL SHEET – HW-586_07 CATCH BASIN TOPS TYPE "C" AND "C-L"



LOCATION MAP
N.T.S.

MAY 2021

ISSUED FOR BID

RICHARD J. JOHNSON
TOWN MANAGER

DANIEL A. PENNINGTON, P.E.
MANAGER OF PHYSICAL SERVICES/TOWN ENGINEER

GENERAL NOTES:

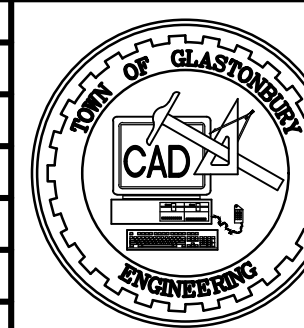
- THESE PLANS HAVE BEEN PREPARED BY THE TOWN GLASTONBURY ENGINEERING DIVISION.
- ALL WORK UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818 2020, INCLUDING SUPPLEMENT DATED JANUARY 2021 GOVERN.
- DESIGN CLASSIFICATION: DOUGLAS ROAD: LOCAL
SYCAMORE STREET: COLLECTOR
WELLES STREET: LOCAL
NAUBUC AVENUE: MINOR ARTERIAL
- PROJECT OWNER IS THE TOWN OF GLASTONBURY. ALL FUTURE MAINTENANCE AFTER CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE TOWN OF GLASTONBURY.
- PROJECT AREA IS ZONED: DOUGLAS ROAD: RESIDENCE A
SYCAMORE STREET: TOWN CENTER AND RESIDENCE A
WELLES STREET: TOWN CENTER
NAUBUC AVENUE: TOWN CENTER MIXED USE
- THE LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREIN ARE BASED ON INFORMATION PROVIDED BY OTHERS AND SHOULD BE CONSIDERED APPROXIMATE. THE ACTUAL LOCATIONS MAY VARY FROM THAT INDICATED ON THE PLANS AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL CONTACT CALL BEFORE YOU DIG TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AND RESOLVE CONFLICTS PRIOR TO STARTING CONSTRUCTION.

ALL UTILITY INFORMATION AND DATA SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS ARE COMPILED FROM MAPS AND DATA FURNISHED BY OTHERS. ANY SUCH INFORMATION SHOULD NOT BE CONSTRUED AS ACCURATE OR COMPLETE AND THE CONTRACTOR SHALL VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.

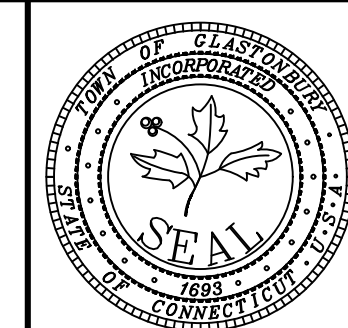
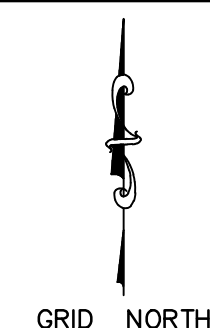
MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED.
ALL REVISIONS MUST BE PERFORMED ON CADD FILE:
P:\Town-wide\20 Annual Paving\2021 DWG\2021Storm Drainage and Sidewalk Ramp Replacement.dwg

PW-E20

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
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DRAWN BY: S.R.	4--2021
CHECKED BY: S.M.B.	4/30/2021
APPROVED BY: D.A.P.	4/30/2021
ST. FILE:	
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.	



**Storm Drainage and Sidewalk Ramp
Rehabilitation**
LOCATED AT
DOUGLAS ROAD, SYCAMORE STREET,
WELLES STREET AND NAUBUC AVENUE
GLASTONBURY, CONNECTICUT

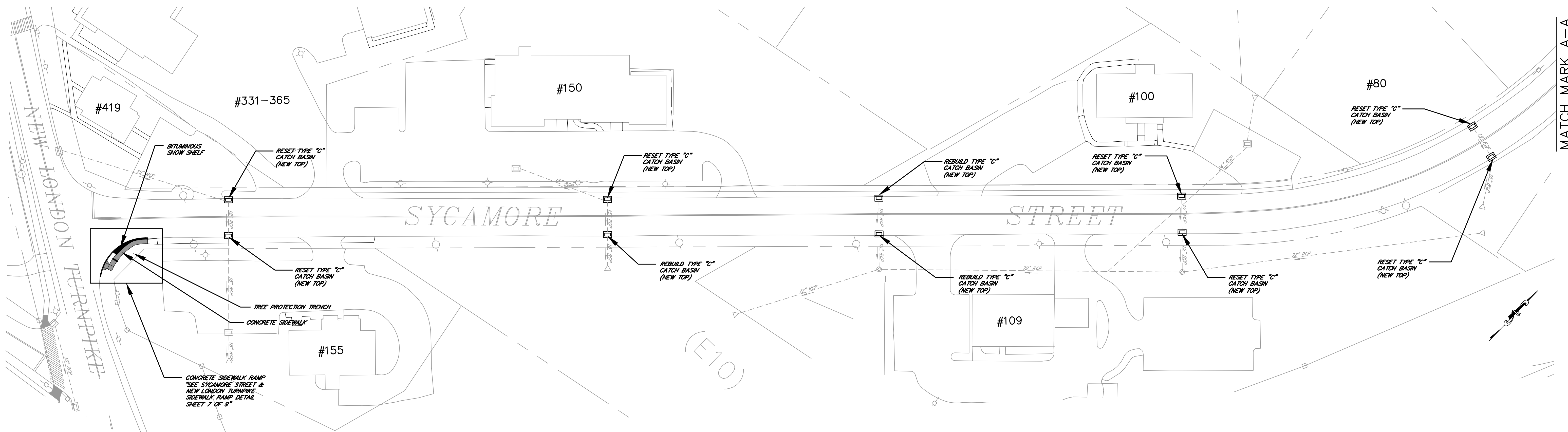
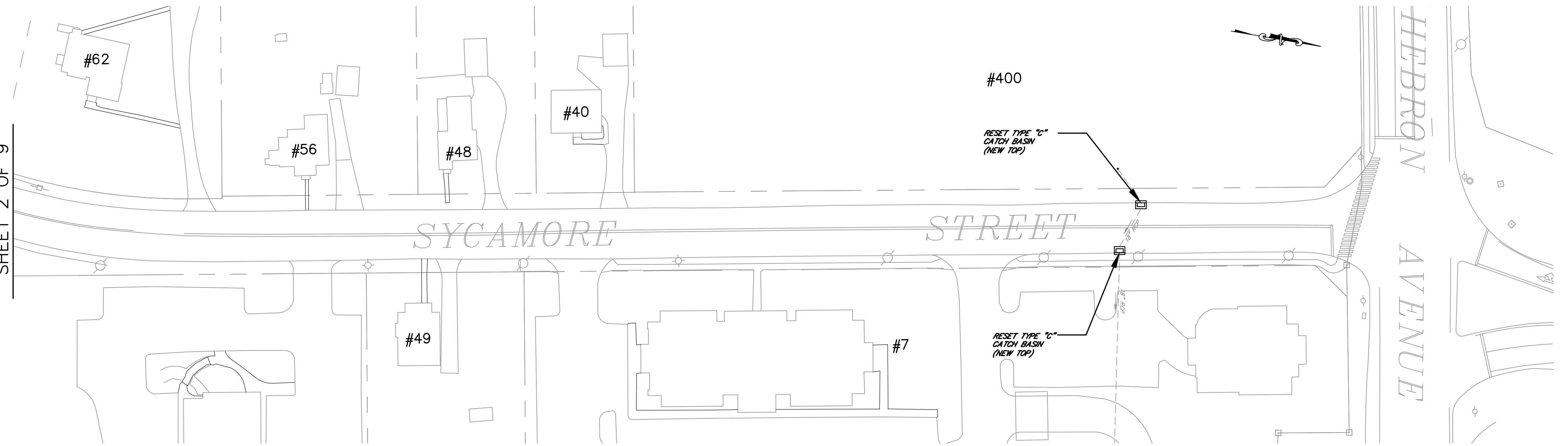
SHEET NO.
1
OF 9

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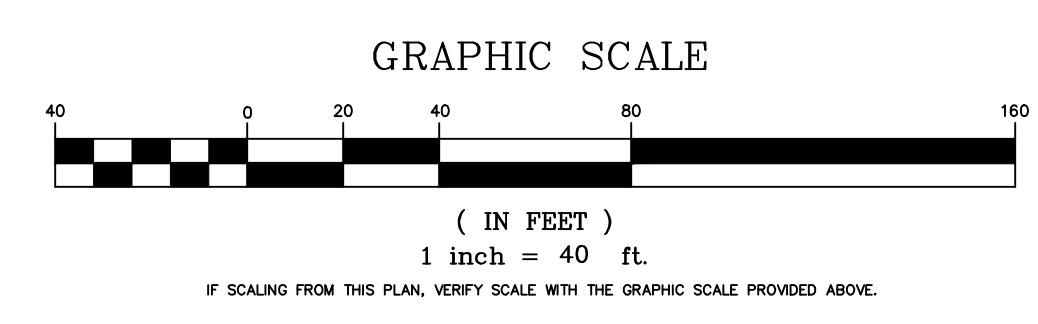
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3. IMPLEMENTING WORKER AND HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH ALL RULES, LAWS AND REGULATIONS REGARDING SAFETY AND RISK OF EXPOSURE TO PHYSICAL AND CHEMICAL HAZARDS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL EMPLOYEES OF THE CONTRACTOR AND SUBCONTRACTORS ARE TO WEAR REFLECTIVE VESTS AND HARD HATS AT ALL TIMES WHEN ON THE PROJECT SITE.
4. A PRECONSTRUCTION MEETING WITH TOWN STAFF IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
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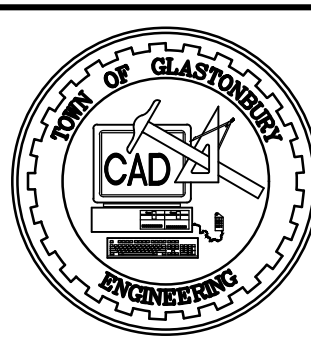
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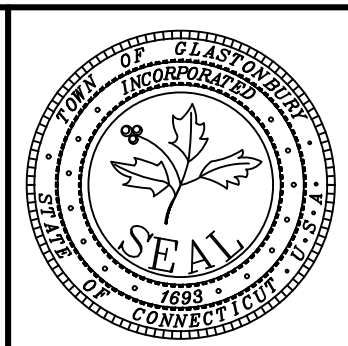
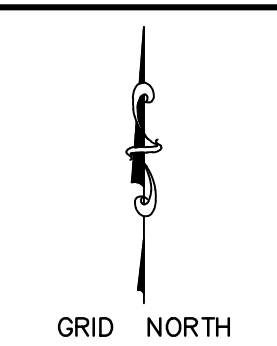
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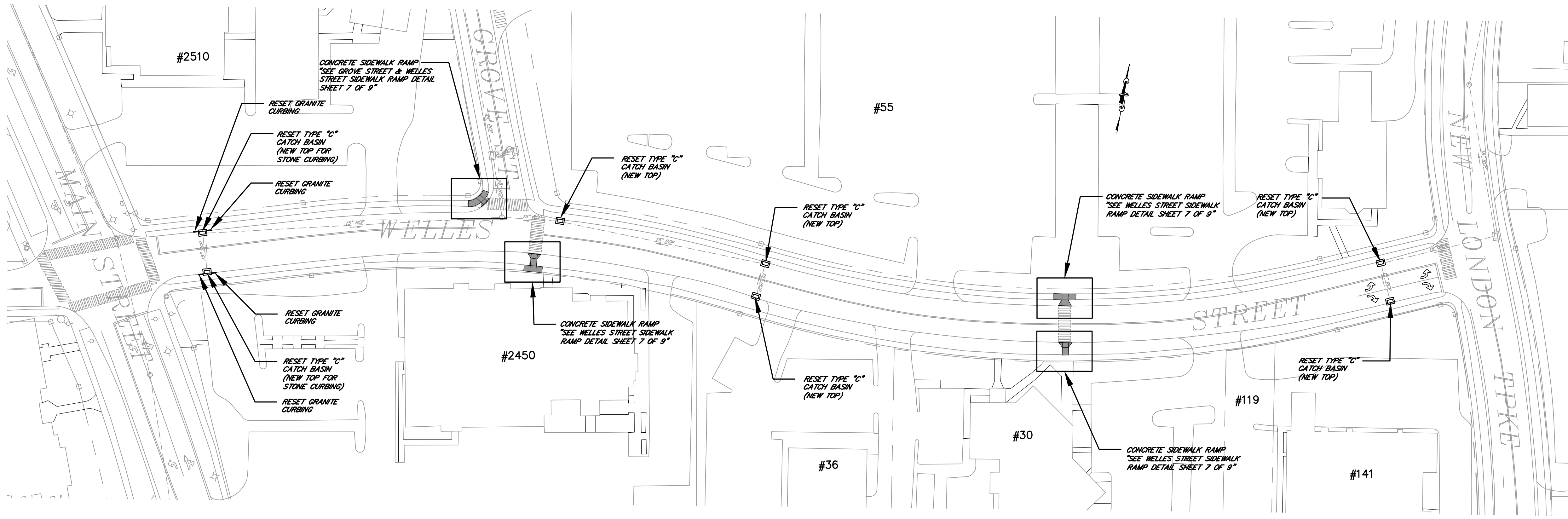


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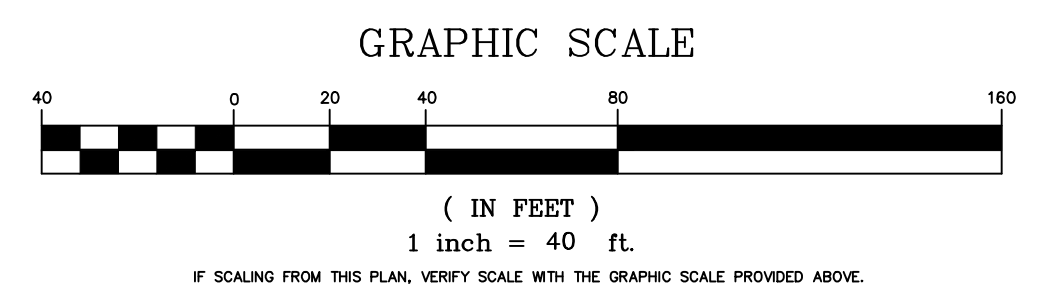


PLAN
Storm Drainage and Sidewalk Ramp
Rehabilitation
LOCATED AT
SYCAMORE STREET
GLASTONBURY, CONNECTICUT

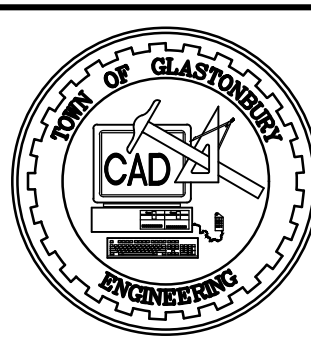
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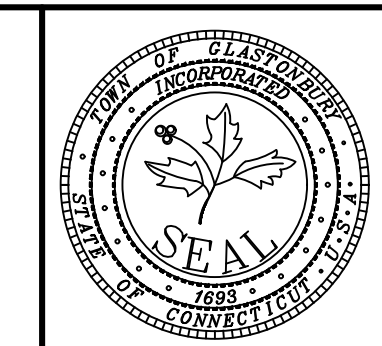
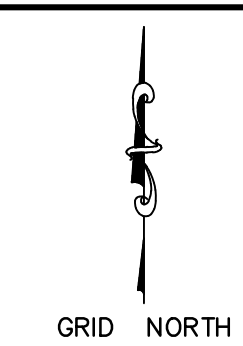
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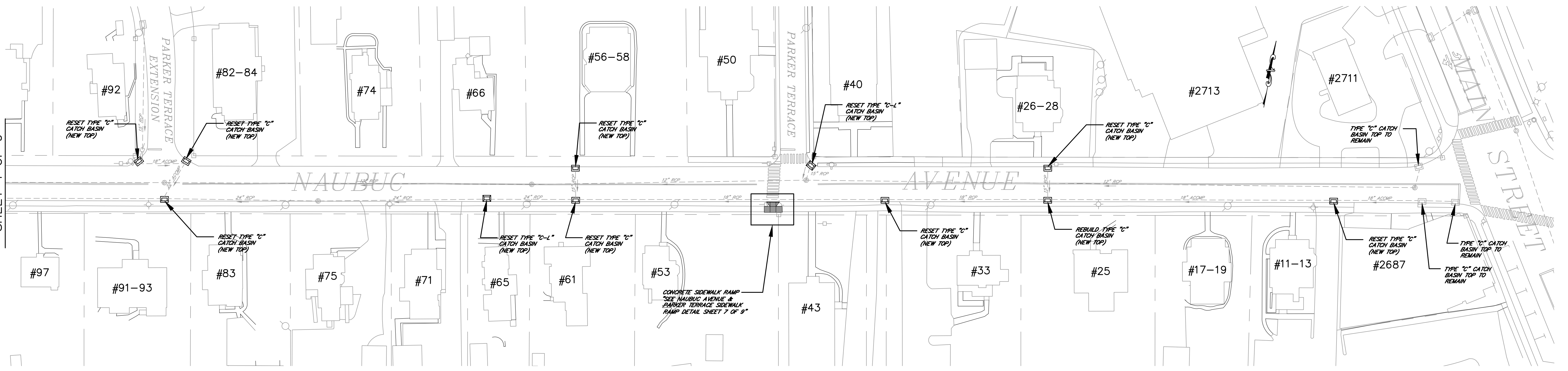
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PLAN
Storm Drainage and Sidewalk Ramp
Rehabilitation
LOCATED AT
WELLES STREET AND DOUGLAS
ROAD
GLASTONBURY, CONNECTICUT

SHEET NO.
3
OF 9

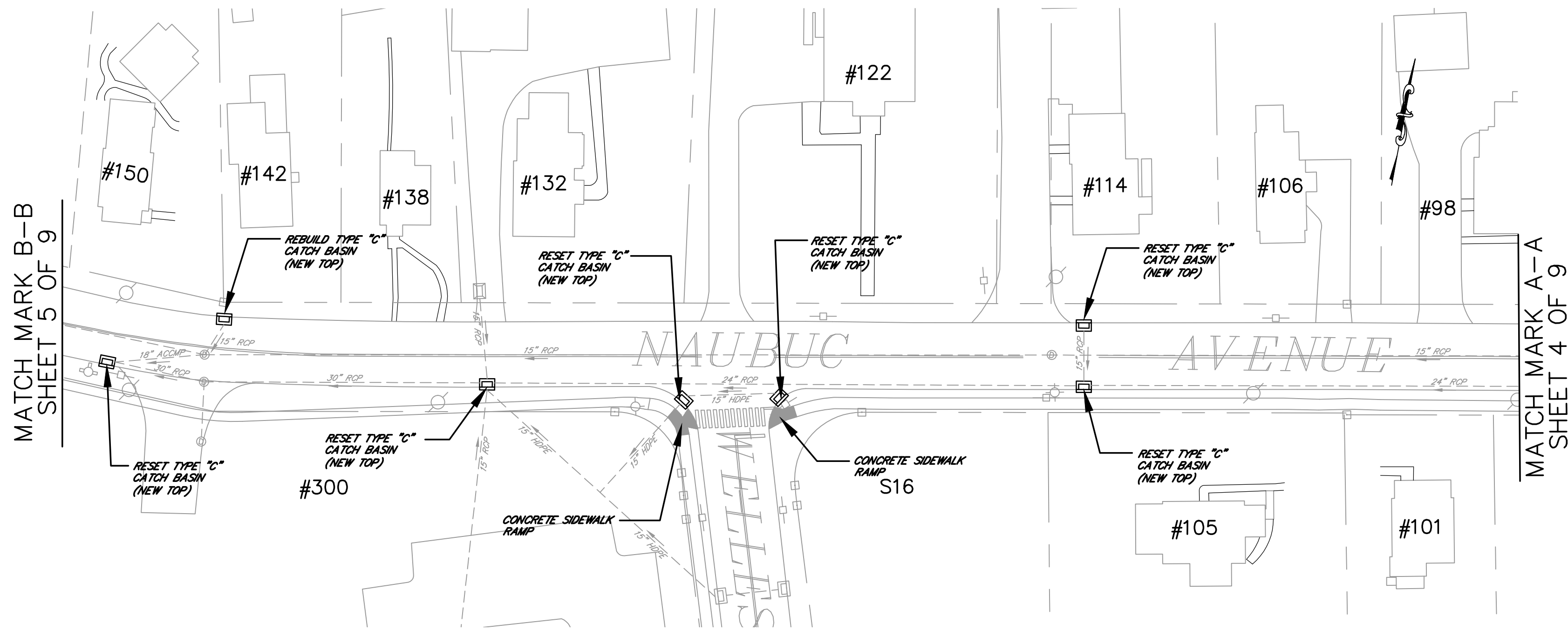
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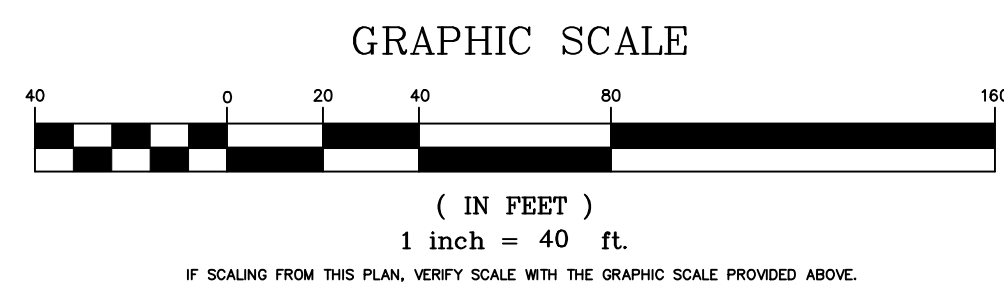
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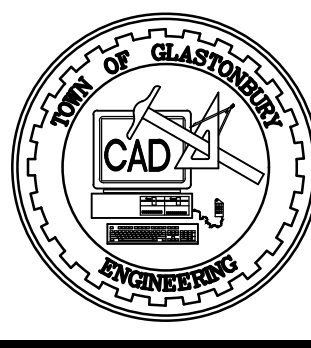
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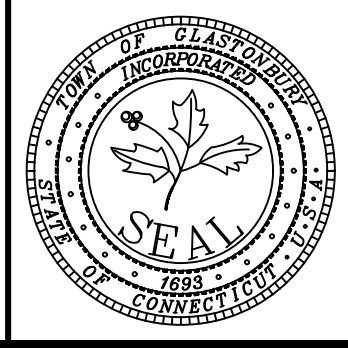
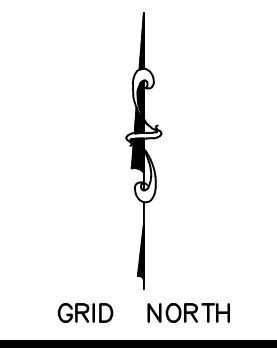
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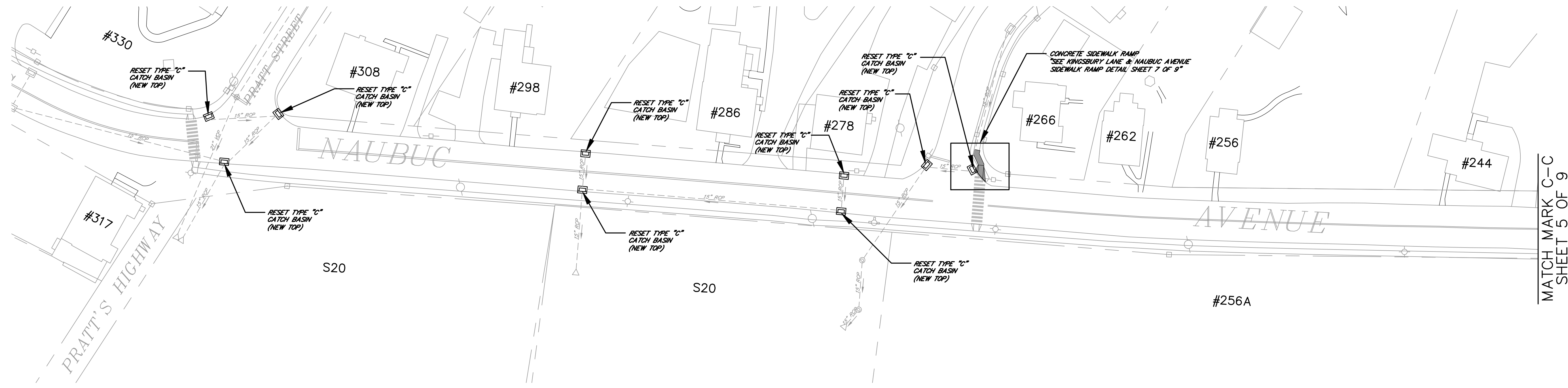
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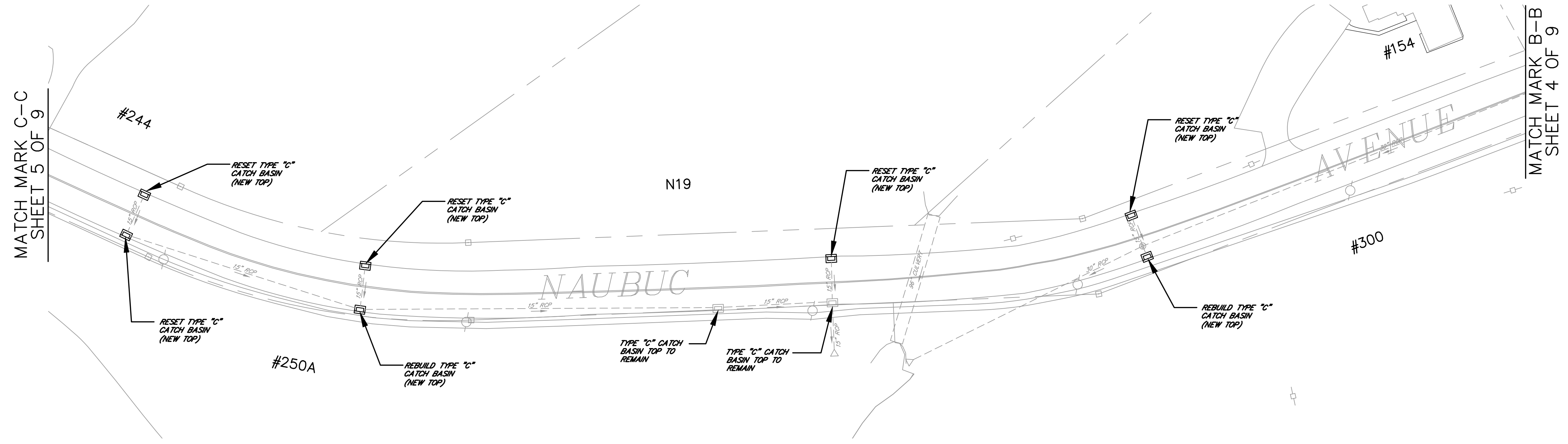


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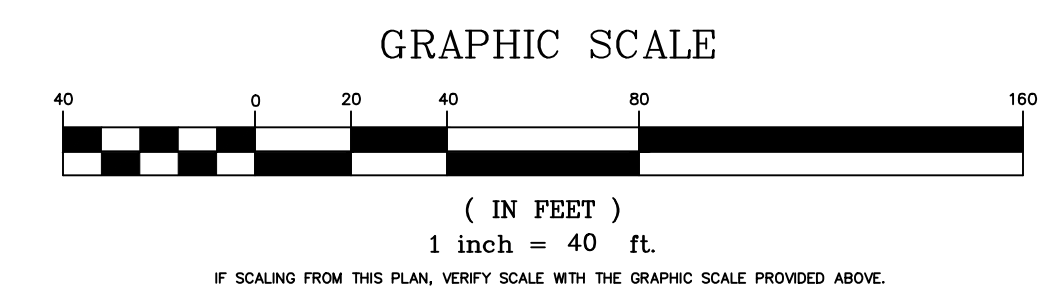
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 2. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 3. IMPLEMENTING WORKER AND HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH ALL RULES, LAWS AND REGULATIONS REGARDING SAFETY AND RISK OF EXPOSURE TO PHYSICAL AND CHEMICAL HAZARDS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL EMPLOYEES OF THE CONTRACTOR AND SUBCONTRACTORS ARE TO WEAR REFLECTIVE VESTS AND HARD HATS AT ALL TIMES WHEN ON THE PROJECT SITE.
 4. A PRECONSTRUCTION MEETING WITH TOWN STAFF IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
 5. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS AND PAY ASSOCIATED FEES PRIOR TO ANY CONSTRUCTION ACTIVITY.
 6. THE CONTRACTOR SHALL COMMIT SUFFICIENT RESOURCES TO THE PROJECT TO ENSURE THE PROJECT IS COMPLETED WITHIN THE ALLOTTED CONTRACT TIME. ONCE MOBILIZED, THE CONTRACTOR SHALL WORK CONTINUOUSLY ON THE PROJECT UNTIL COMPLETION.
 7. THE CONTRACTOR SHALL NOT STORE CONSTRUCTION EQUIPMENT OR MATERIALS WITHIN THE PUBLIC RIGHT OF WAY UNLESS APPROVED BY THE ENGINEER.
 8. HORIZONTAL AND VERTICAL LOCATIONS OF PROPOSED WORK MAY BE ADJUSTED TO FIT EXISTING CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
 9. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF CONDITIONS ENCOUNTERED IN THE FIELD ARE DIFFERENT THAN INFORMATION SHOWN ON THE PLANS.
 10. THE EXISTENCE OF UTILITIES AND APPURTENANCES AS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. THE EXACT SIZE, LOCATION, TYPE, AND ELEVATION OF ALL UTILITIES WITHIN ALL WORK AREAS SHALL BE THOROUGHLY INVESTIGATED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING 'CALL-BEFORE-YOU-DIG' AT 1-800-922-4455 AND MUST HAVE ALL UTILITIES MARKED ON THE GROUND PRIOR TO THE START OF CONSTRUCTION.
 11. ALL CATCH BASINS IDENTIFIED FOR RESET OR REBUILD SHALL BE DEMOLISHED TO THE LIMITS OF DETERIORATED CONCRETE AS DIRECTED BY THE ENGINEER. NEW CONCRETE BRICK AND/OR BLOCK SHALL THEN BE INSTALLED AS REQUIRED TO REPLACE THE DETERIORATED PORTION OF THE STRUCTURE.
 12. VERTICAL PAY LIMITS RELATED TO 'RESET CATCH BASIN' ITEM ARE 0' - 3' MEASURED ALONG THE INSIDE OF THE BASIN AFTER THE TOP HAS BEEN REMOVED FROM THE STRUCTURE. MEASUREMENTS ARE MADE BETWEEN THE TOP OF THE STRUCTURE AND THE BEGINNING OF THE REBUILDING. WHEN THE LIMIT OF STRUCTURE REBUILDING EXCEEDS 3', THE STRUCTURE WILL BE CLASSIFIED UNDER ITEM 'REBUILD CATCH BASIN' AND MEASURED AND PAID FOR BY THE VERTICAL FOOT UTILIZING THE MEASUREMENT METHOD DESCRIBED ABOVE.
 13. ALL CATCH BASIN TOPS UNDER THIS CONTRACT ARE TO BE REPLACED WITH NEW CATCH BASIN TOPS, FRAME, AND GRATE AND SET TO ITS ORIGINAL ELEVATION UNLESS OTHERWISE NOTED ON THE PLANS. ALL CATCH BASIN GRATES SHALL BE TYPE 'A'. THE NEW CATCH BASIN TOP, FRAME, AND GRATE WILL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE EACH FOR SUCH (TYPE) CATCH BASIN TOP' COMPLETE IN PLACE.
 14. ALL CONCRETE SIDEWALK RAMPS IDENTIFIED FOR REPLACEMENT ARE TO BE CONSTRUCTED CONFORMING TO THE STANDARD DETAILS PROVIDED WITHIN THE CONTRACT DRAWINGS. SIDEWALK RAMPS IDENTIFIED IN SPECIAL LOCATIONS AND LABELED ON THE PLANS SHALL BE CONSTRUCTED TO THE LINES AND GRADES DEPICTED ON THE DETAILED LAYOUT AND GRADING PLANS FOR EACH LOCATION. THE REMOVAL AND DISPOSAL OF ALL EXISTING CONCRETE SIDEWALK RAMPS WITHIN THE PROJECT AREA LIMITS SHALL BE INCLUDED IN THE BID PRICE FOR 'CONCRETE SIDEWALK RAMP'.
 15. THE REMOVAL AND DISPOSAL OF ALL EXISTING CONCRETE SIDEWALK WITHIN THE PROJECT AREA LIMITS SHALL BE INCLUDED IN THE BID PRICE FOR 'CONCRETE SIDEWALK'.
 16. RESTORATION OF DISTURBED AREAS INCLUDING FULL DEPTH PAVEMENT PATCH, TOPSOIL, AND TURF ESTABLISHMENT WILL NOT BE MEASURED AND PAID FOR SEPARATELY, RATHER, THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR THE ITEM ASSOCIATED THEREWITH.

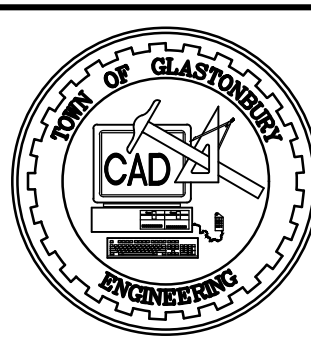


MATCH MARK C-C
SHEET 5 OF 9

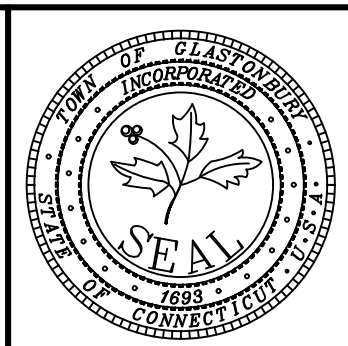
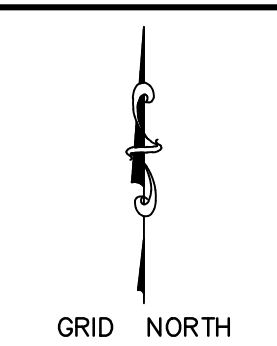
MATCH MARK B-B
SHEET 4 OF 9



DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	-----	-----



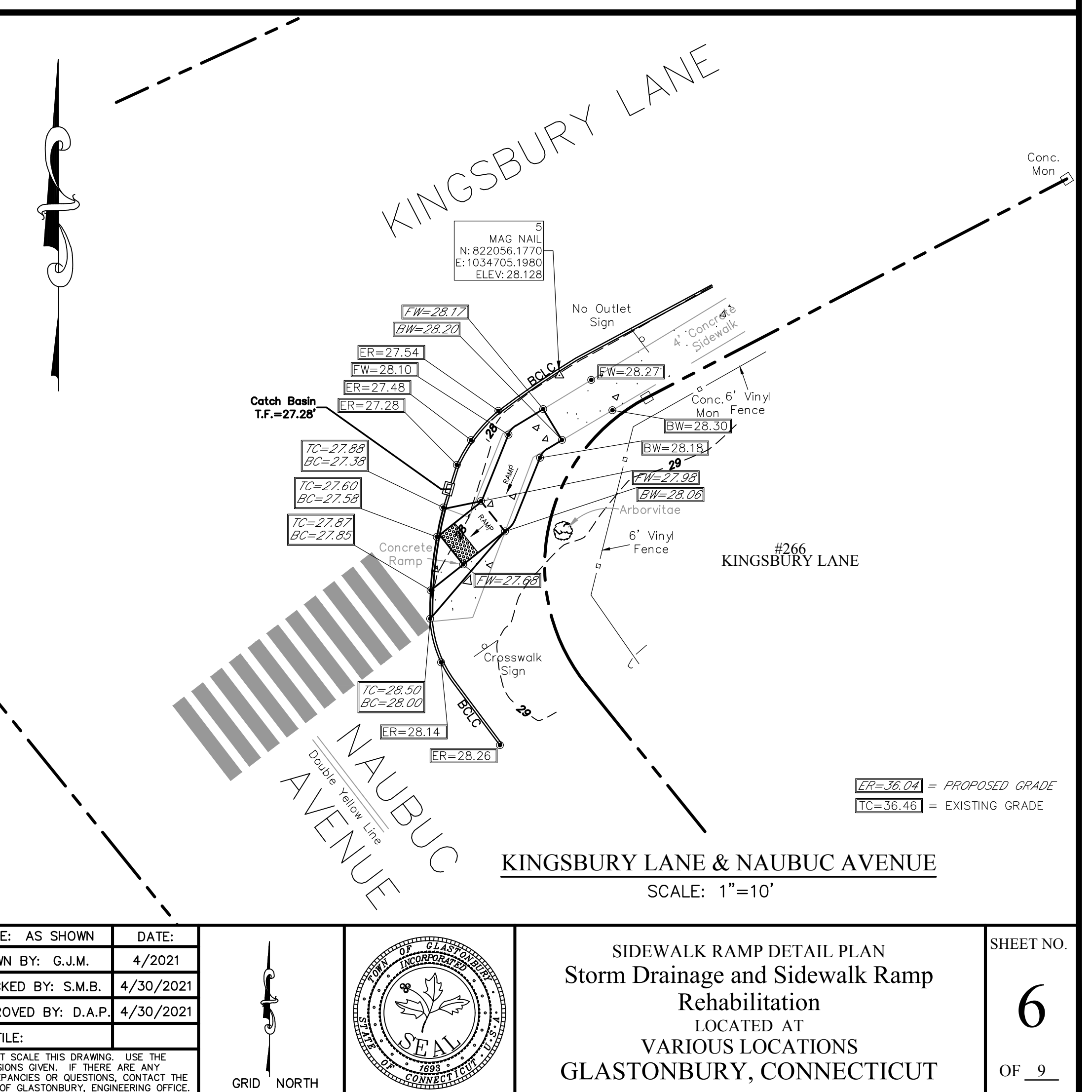
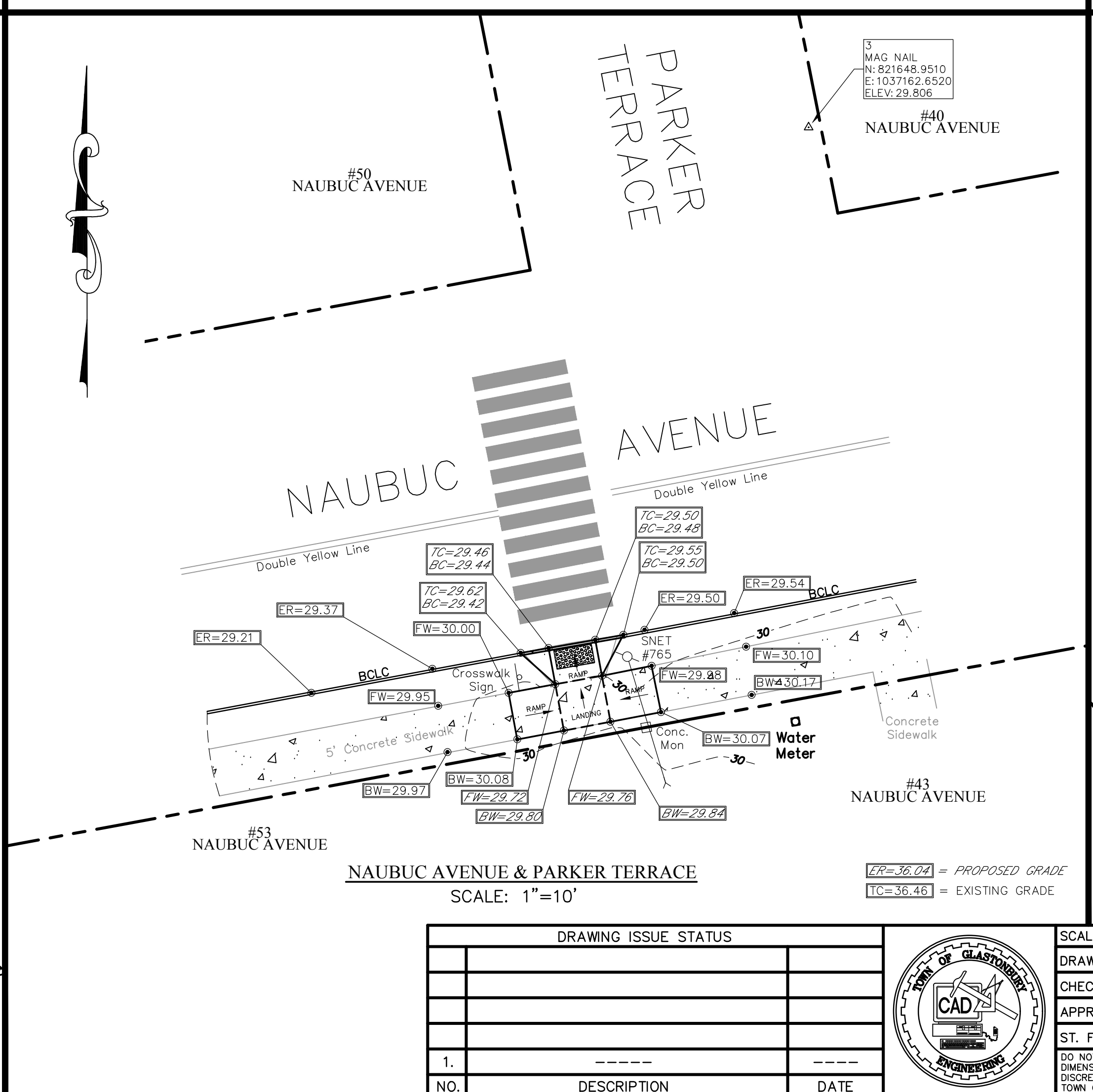
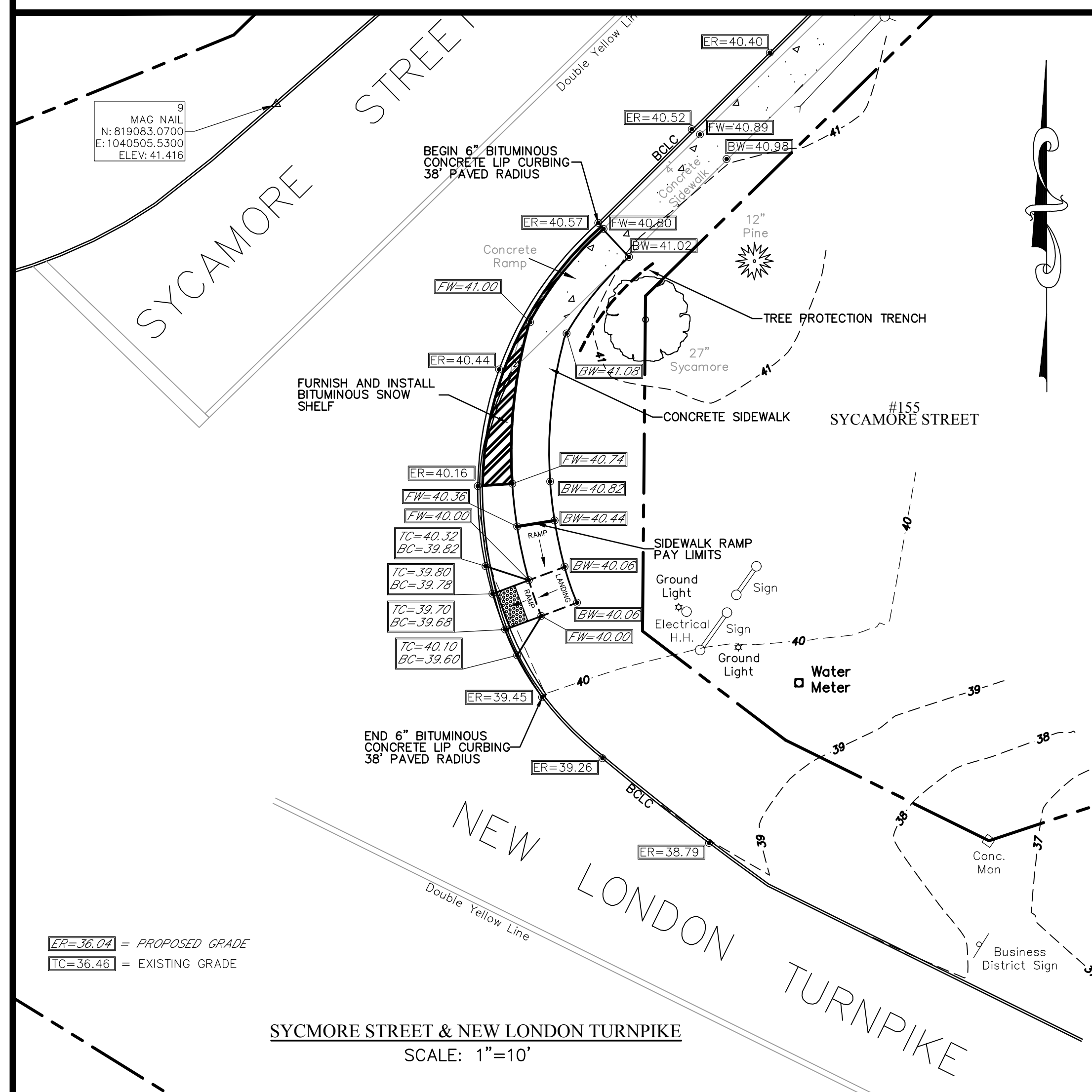
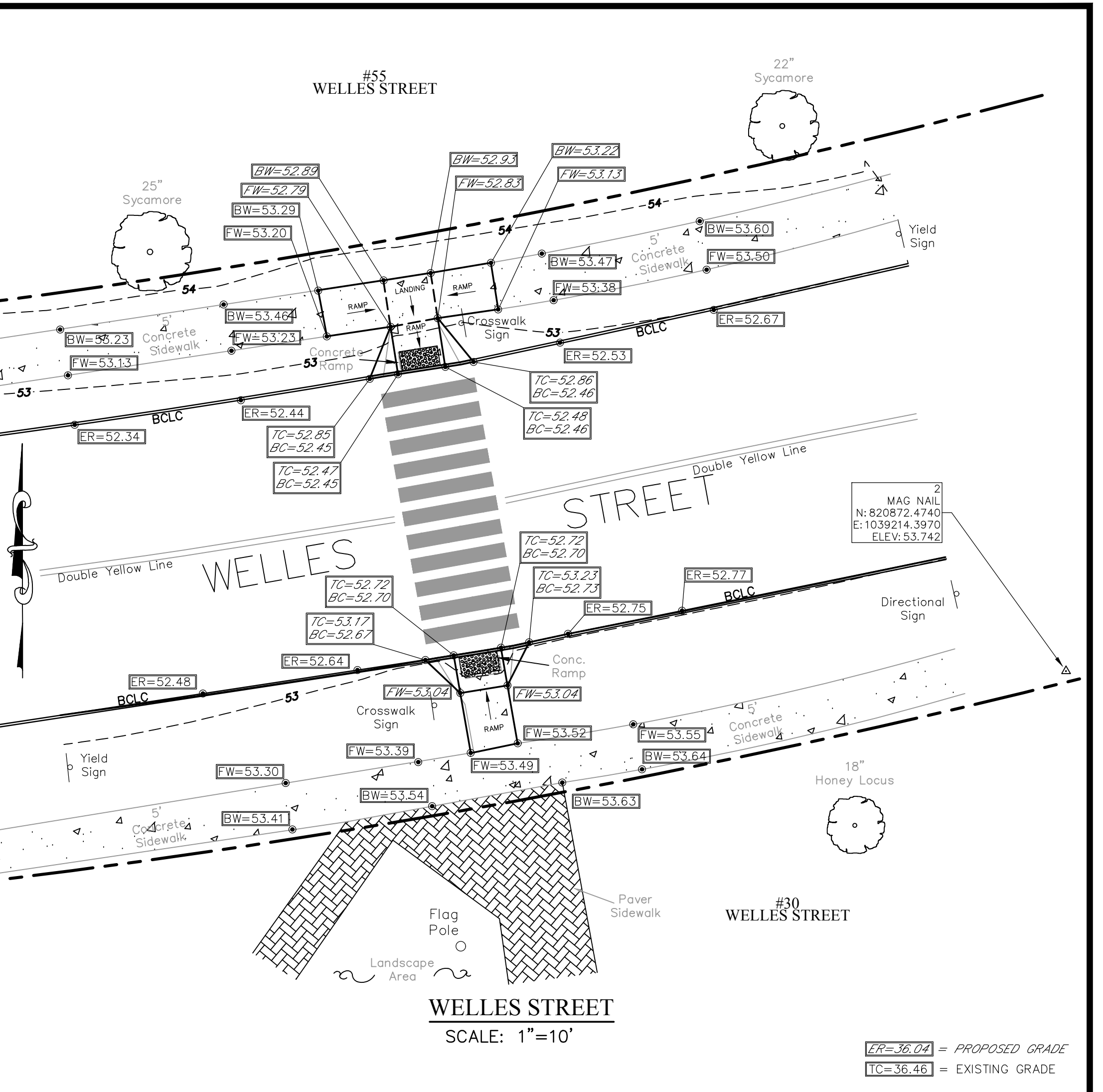
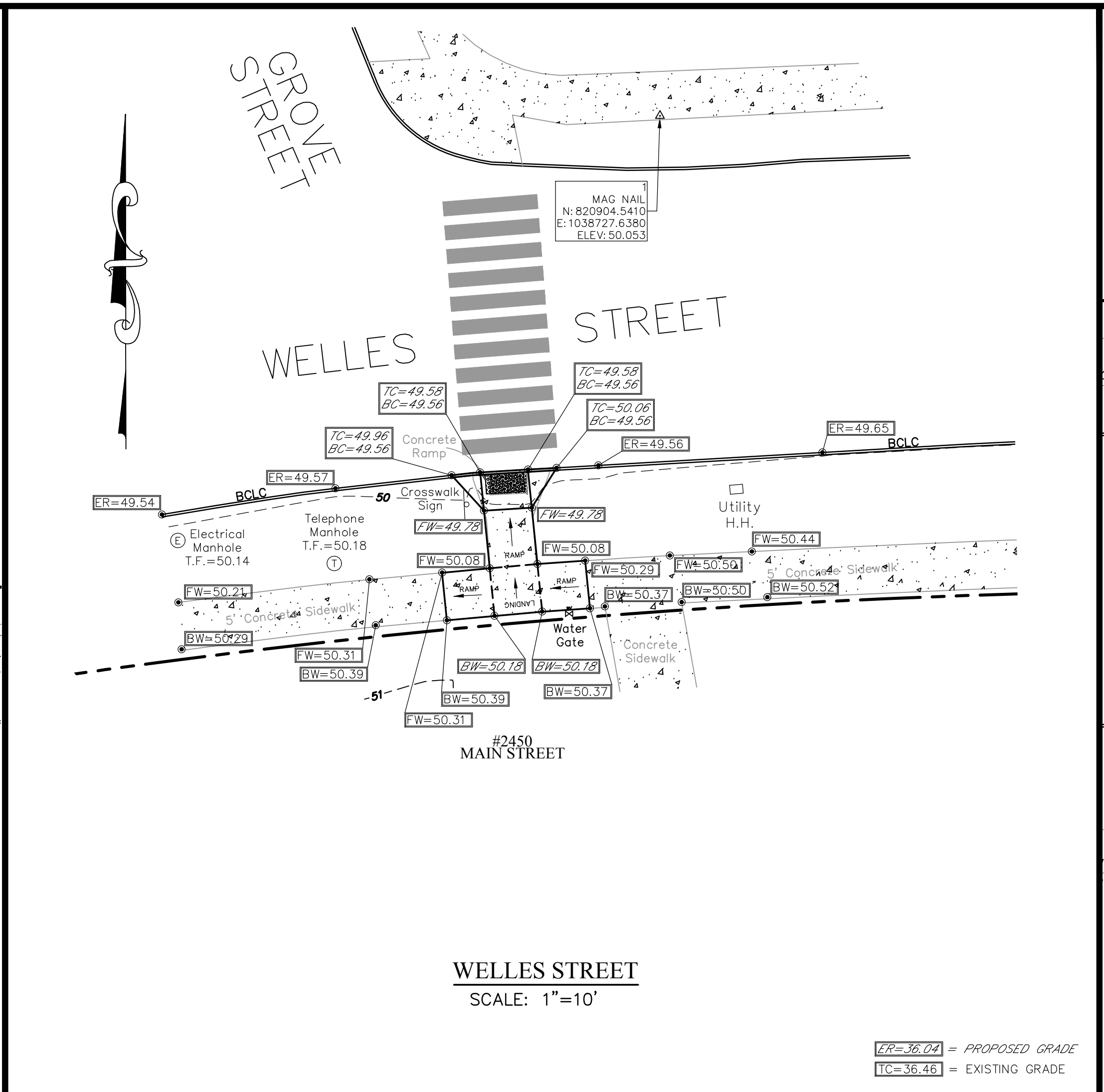
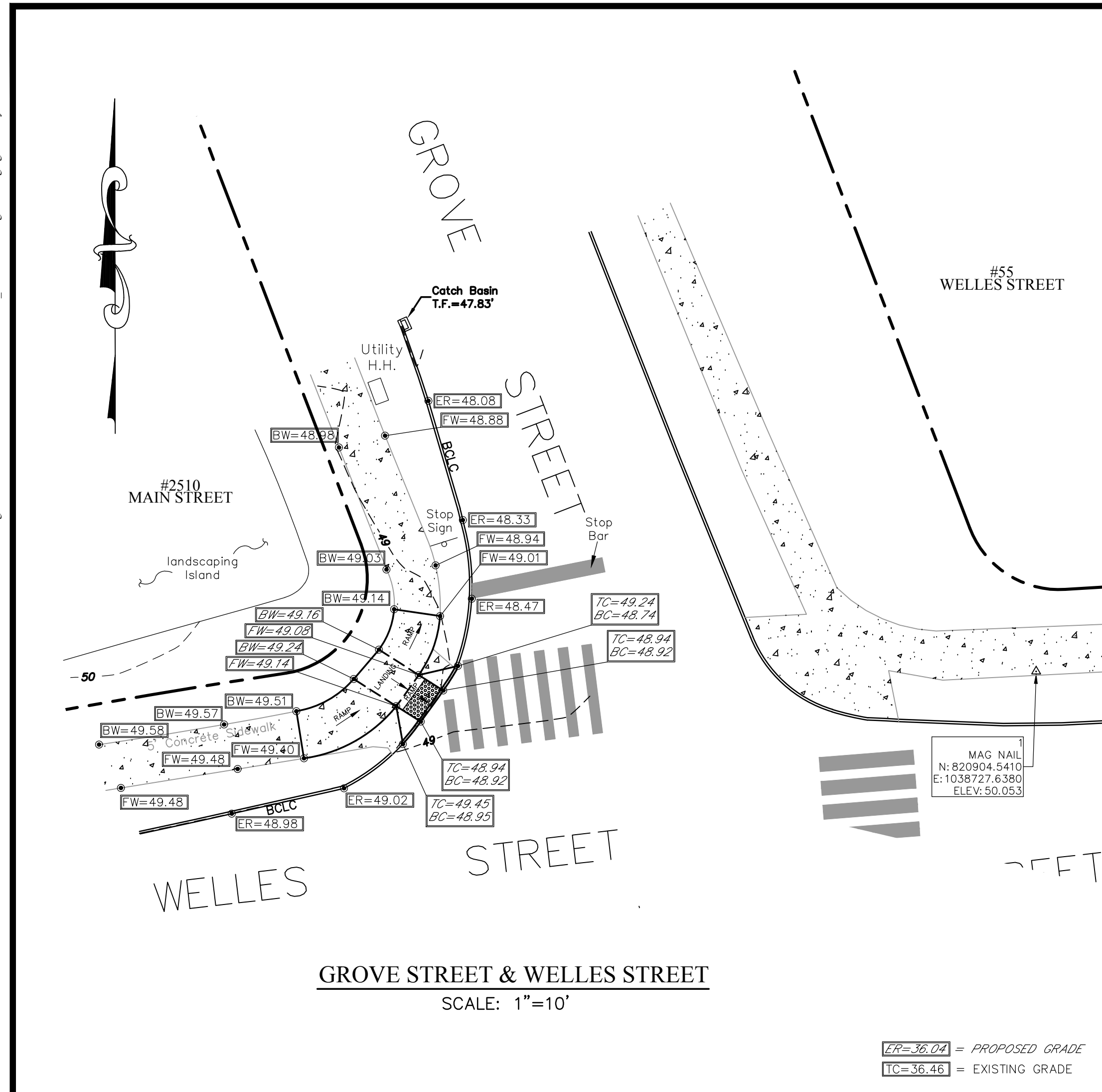
SCALE: AS SHOWN	DATE: 4-2021
DRAWN BY: S.R.	CHECKED BY: S.M.B. 4/30/2021
APPROVED BY: D.A.P. 4/30/2021	ST. FILE:
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.	



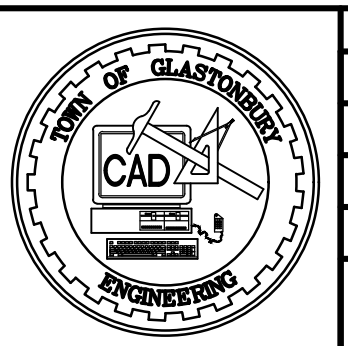
PLAN
Storm Drainage and Sidewalk Ramp
Rehabilitation
LOCATED AT
NAUBUC AVENUE
GLASTONBURY, CONNECTICUT

SHEET NO.
5
OF 9

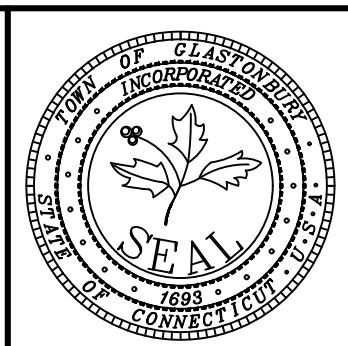
FILE: P:\Town-wide\2020 Annual Prtg\2021 DWG\SIDEWALK RAMP\04-01-2021_CIVIL_2020.dwg USER: greg mahoney DATE: 4/30/21



DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.		

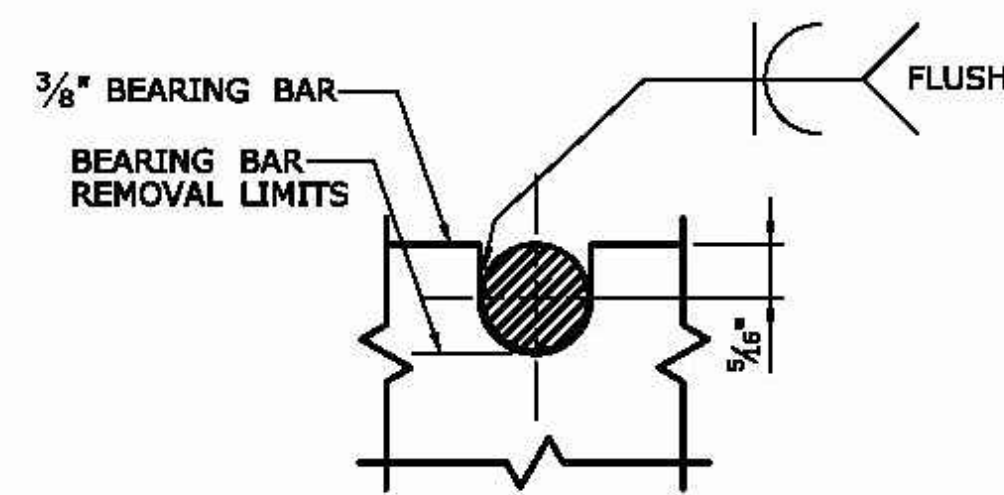


SCALE: AS SHOWN DATE: 4/30/2021
 DRAWN BY: G.J.M.
 CHECKED BY: S.M.B.
 APPROVED BY: D.A.P.
 ST. FILE:
 DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.



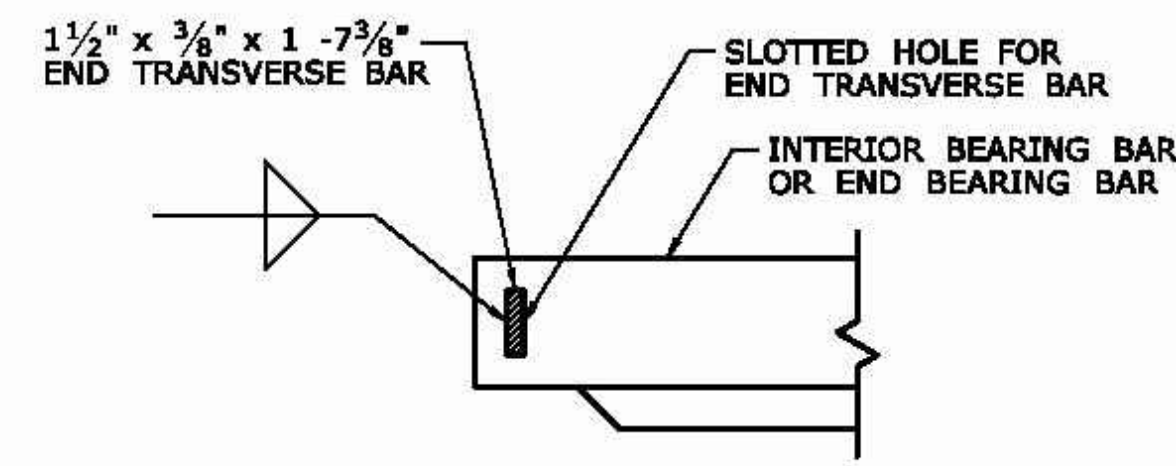
SIDEWALK RAMP DETAIL PLAN
 Storm Drainage and Sidewalk Ramp Rehabilitation
 LOCATED AT
 VARIOUS LOCATIONS
 GLASTONBURY, CONNECTICUT

SHEET NO. 6 OF 9

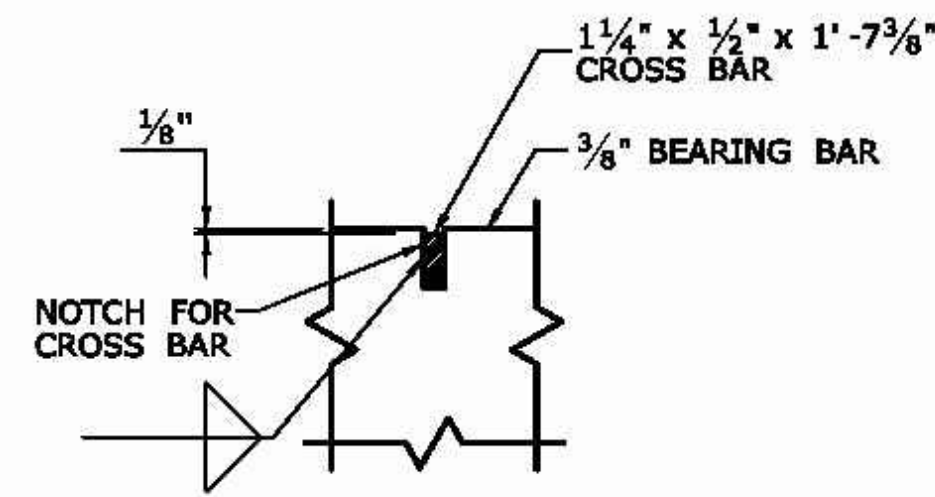


NOTE:
5/8" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

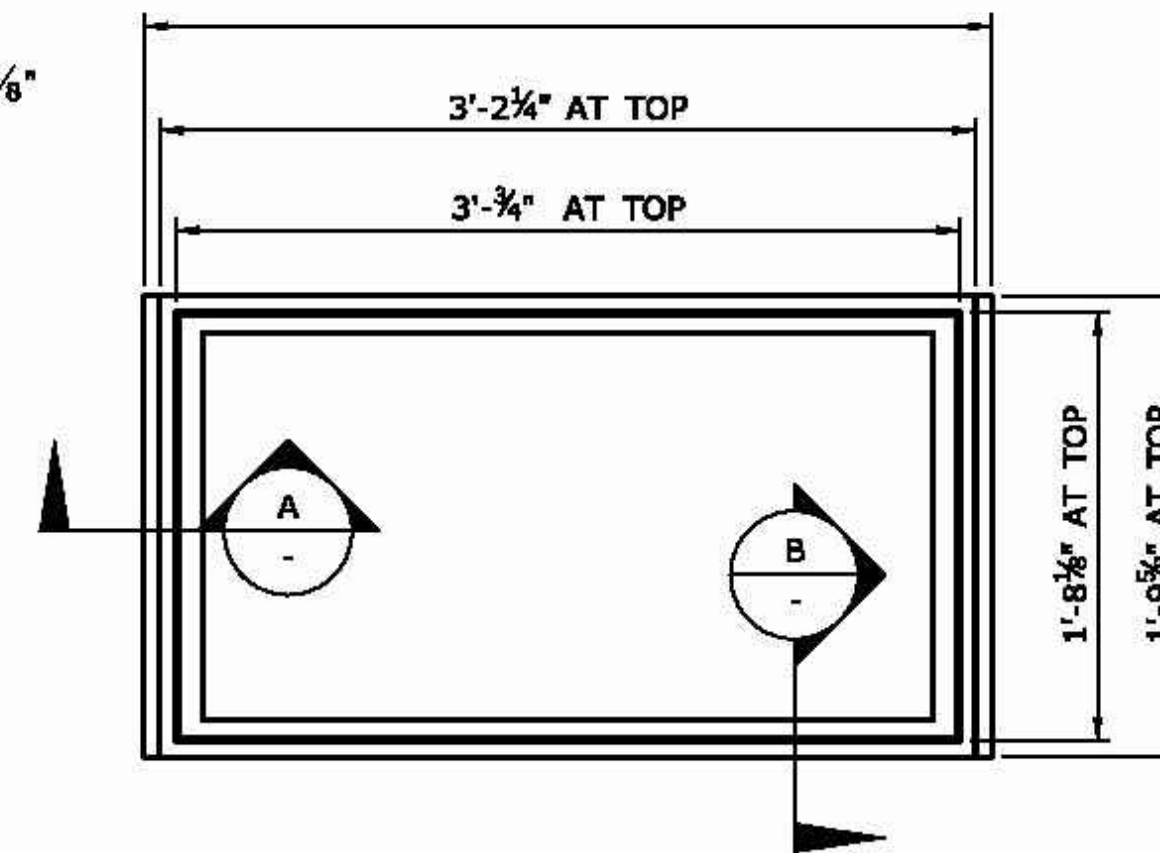
**ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A**



**END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A AND B**



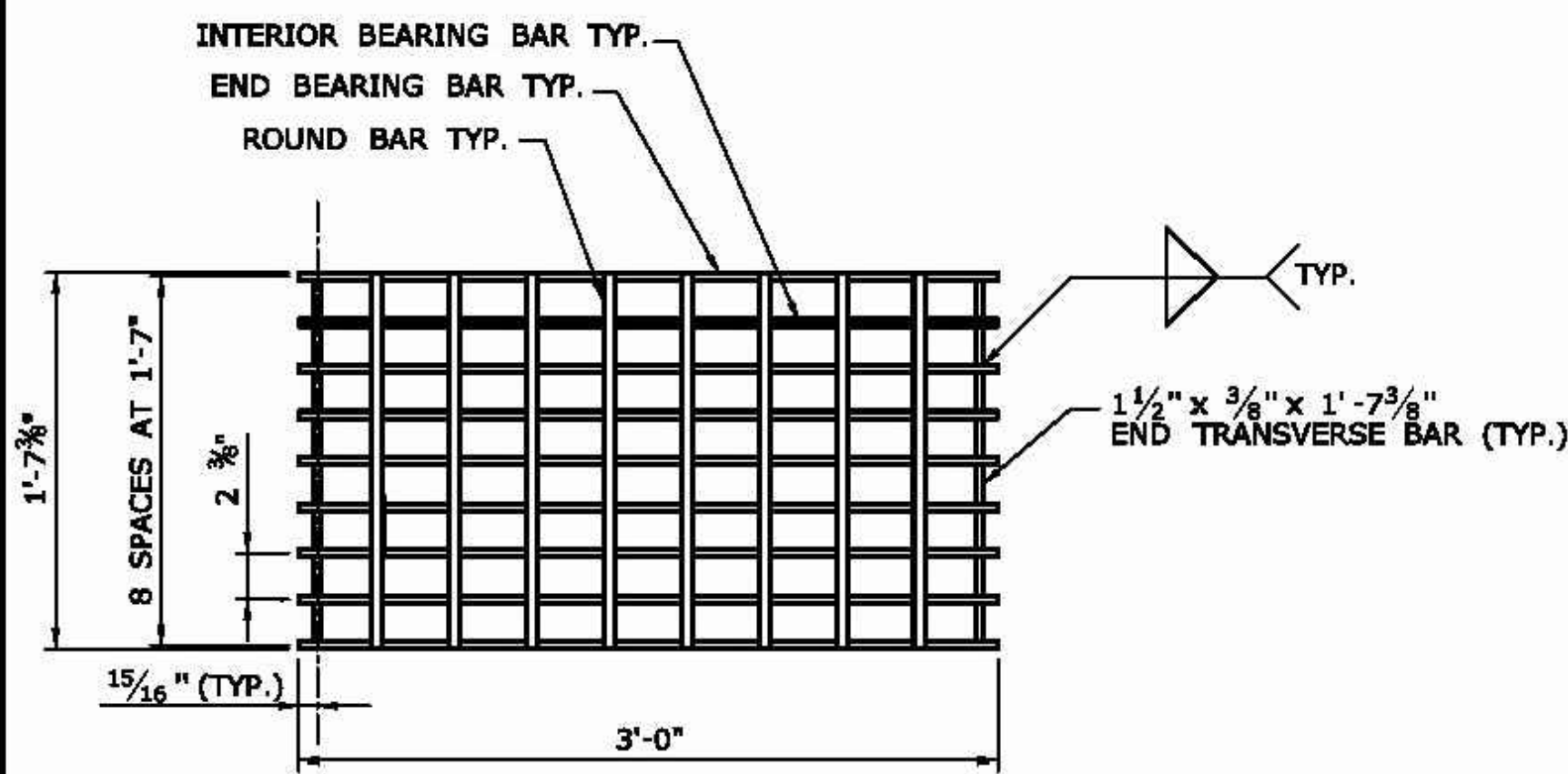
**CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B**



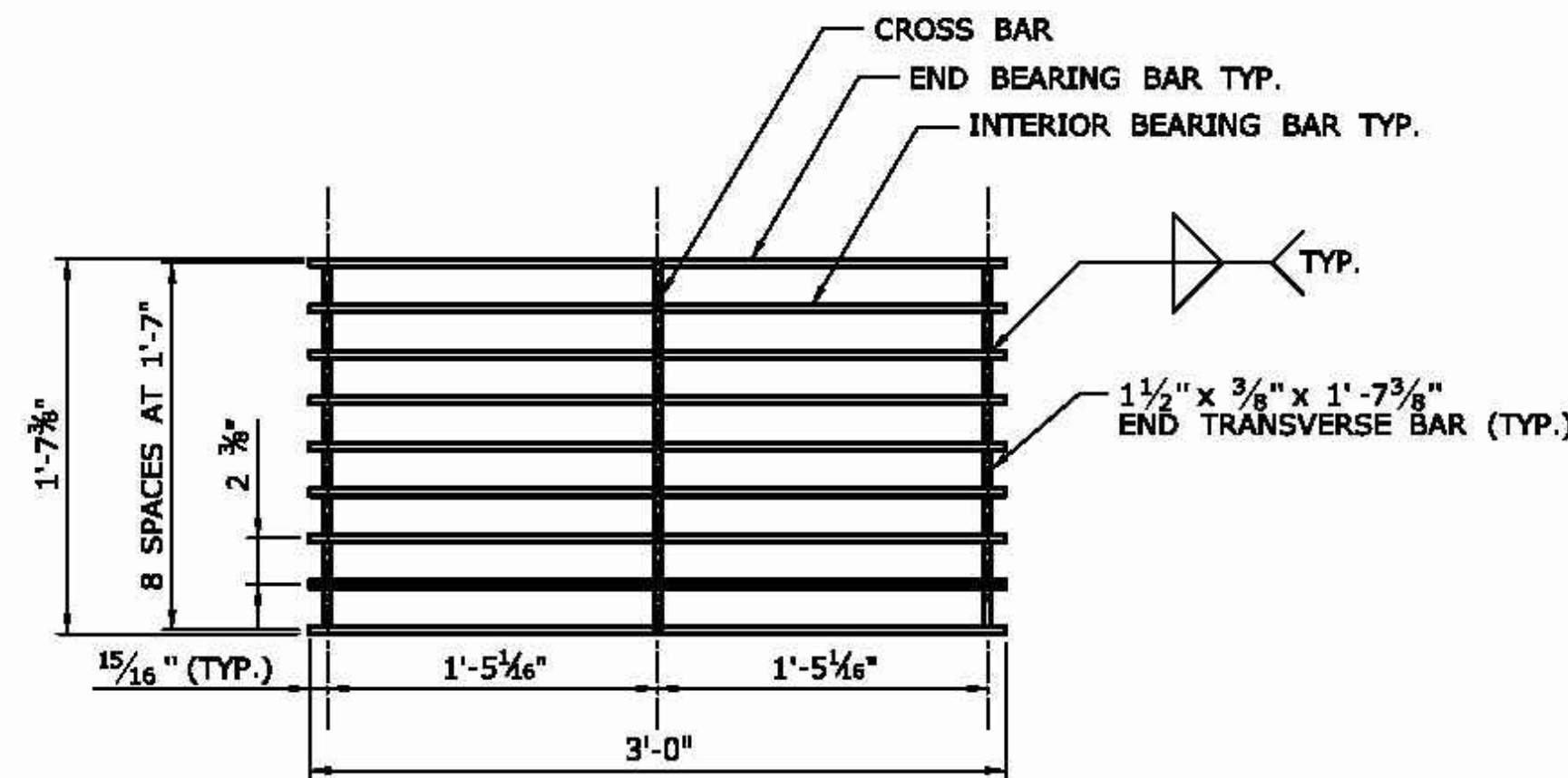
PLAN

GENERAL NOTES:

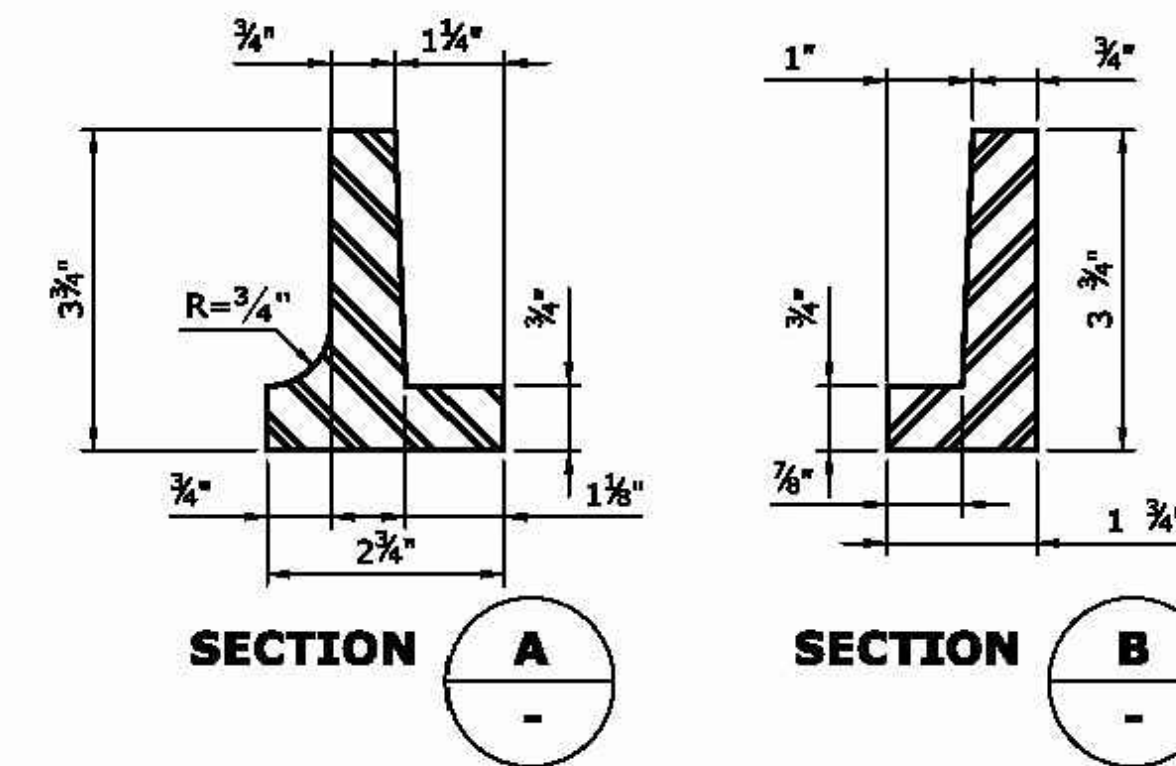
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. DO NOT GALVANIZE CAST IRON FRAMES.
5. DIMENSIONAL TOLERANCES SHALL BE $\pm 1/16$ INCH.
6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



PLAN



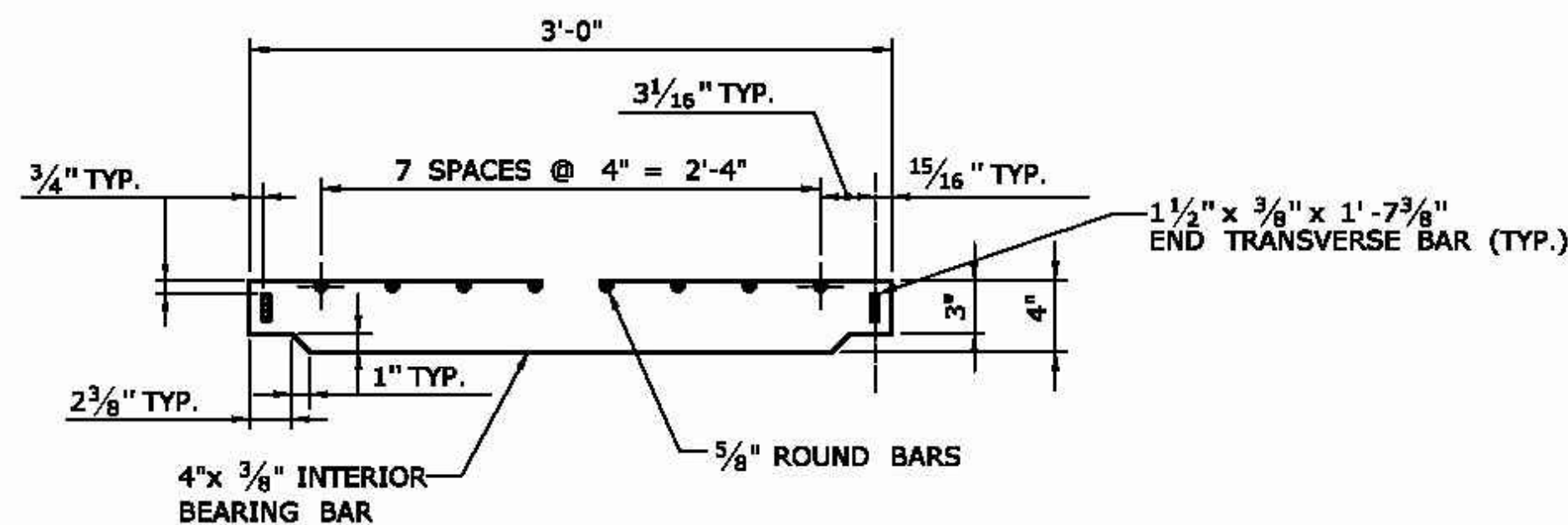
PLAN



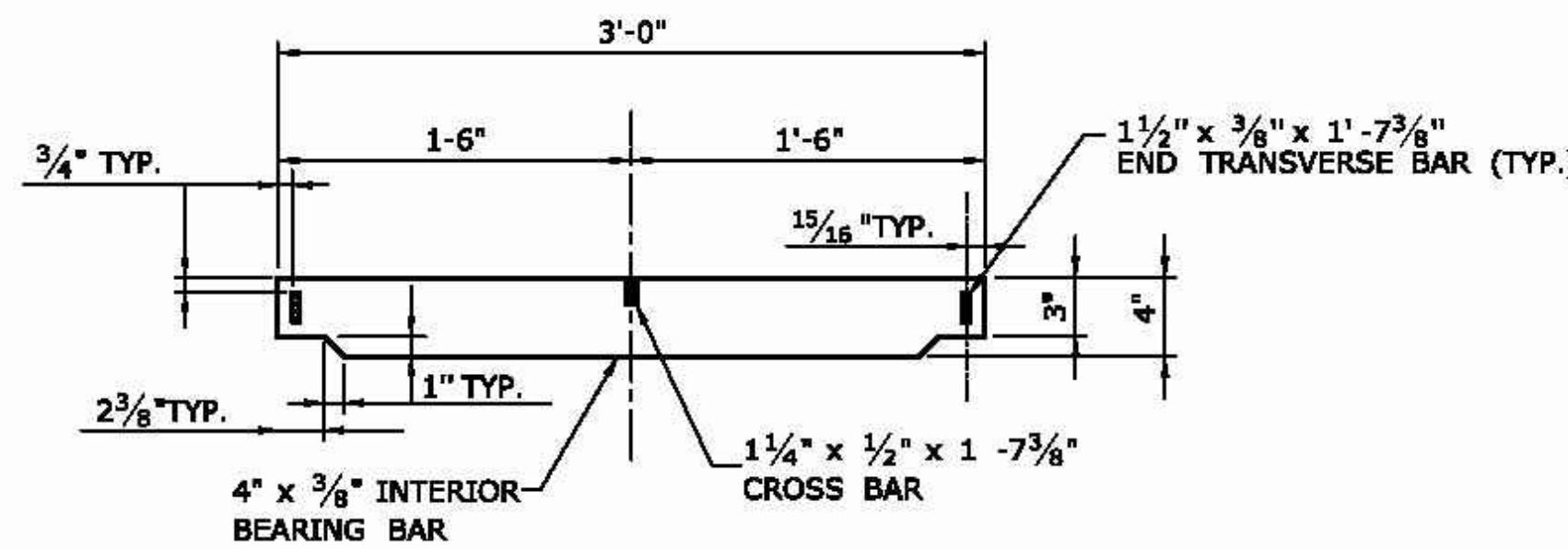
SECTION A

SECTION B

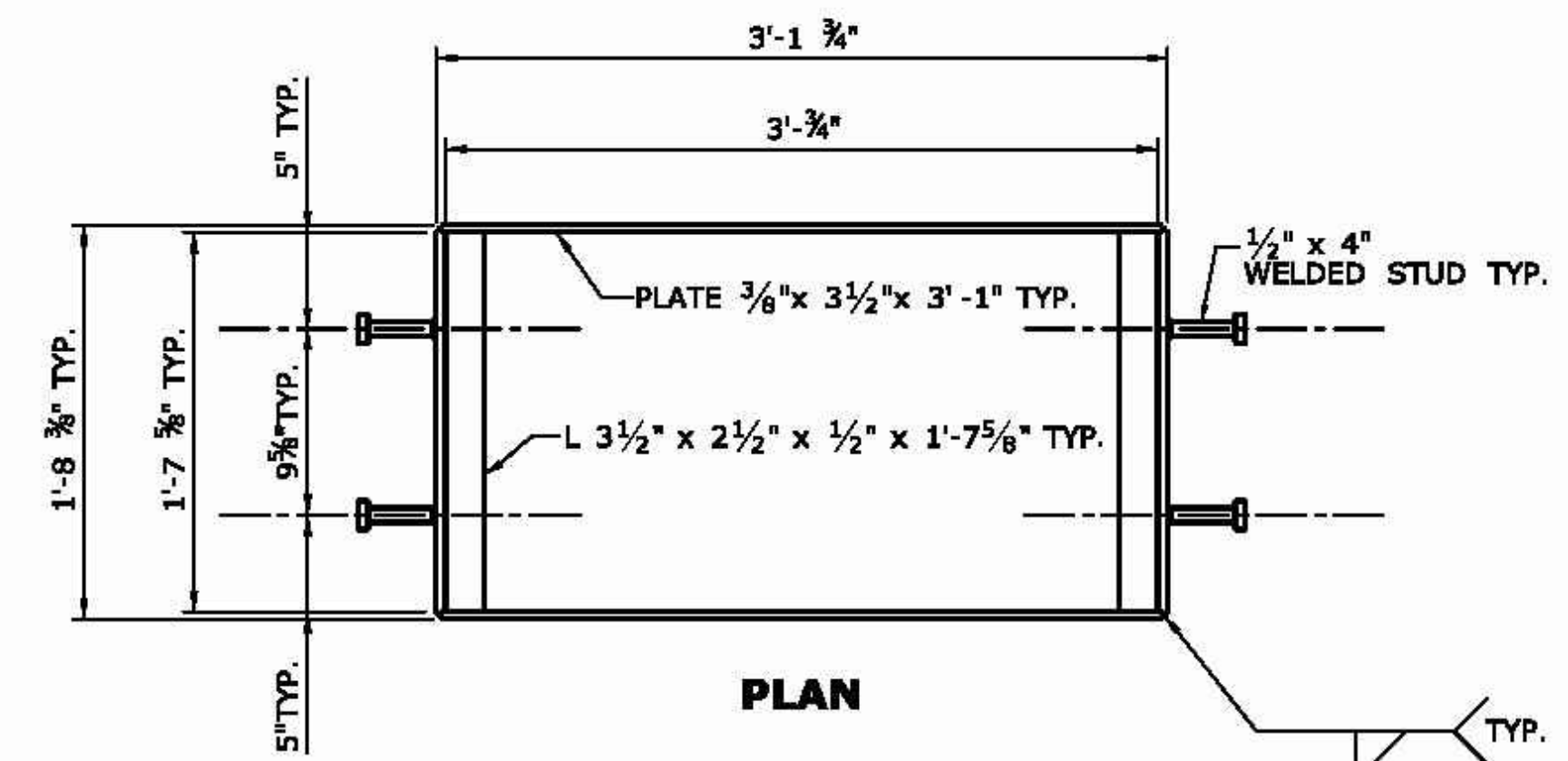
CAST IRON FRAME ALTERNATE



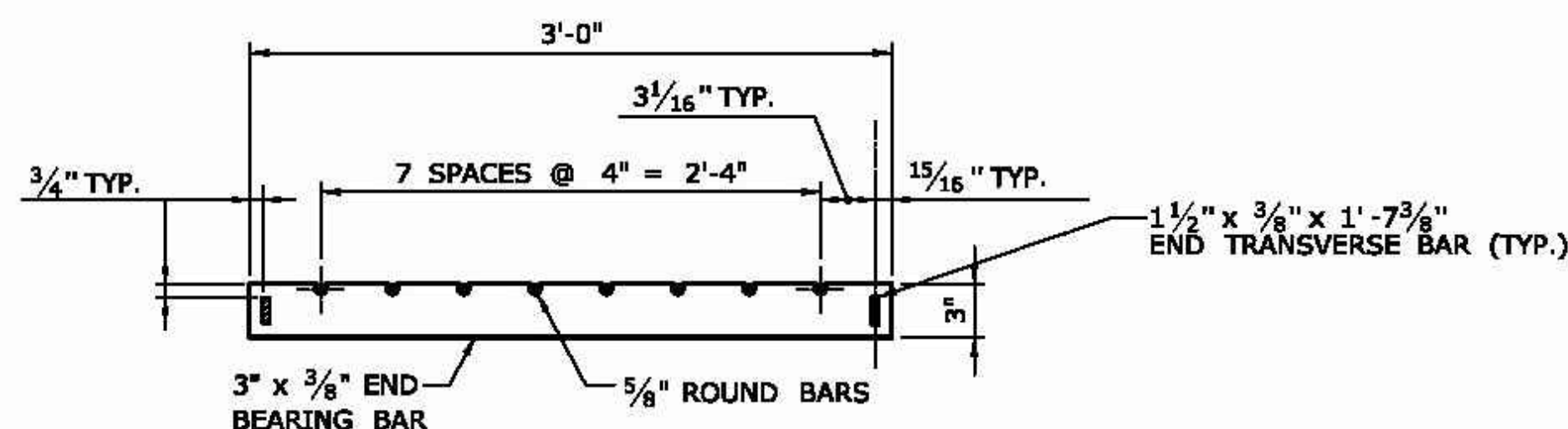
ELEVATION- INTERIOR BEARING BAR



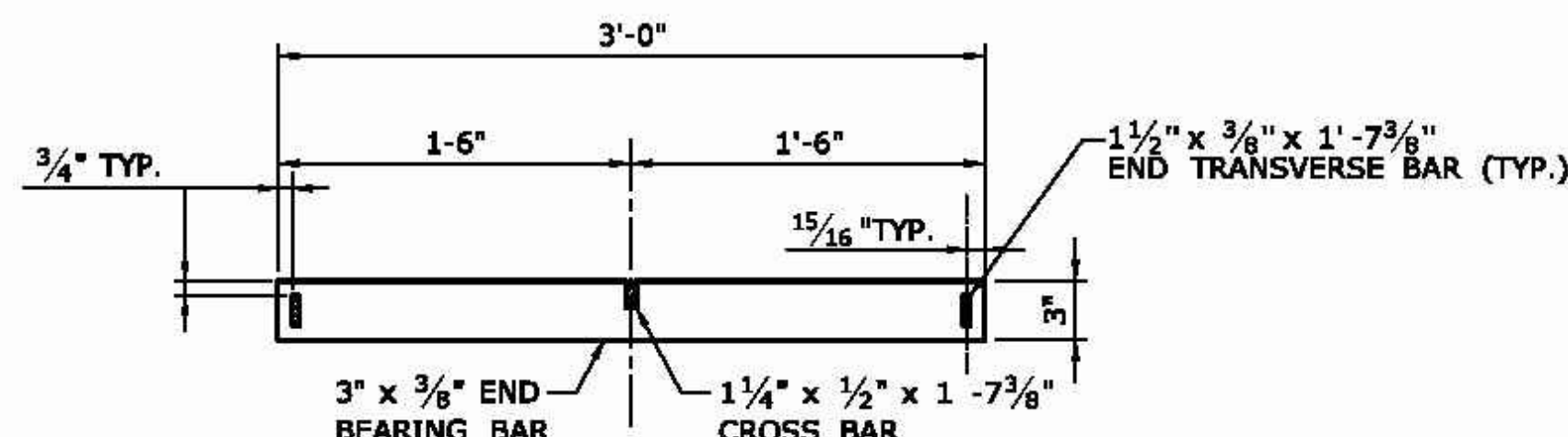
ELEVATION- INTERIOR BEARING BAR



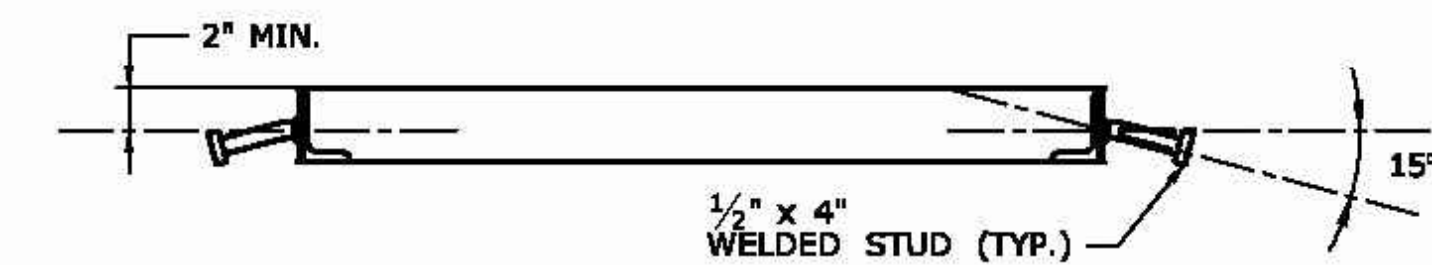
PLAN



**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A**



**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B**



**WELDED STUD ANCHOR DETAILS
STEEL FRAME**

SHEET NO.

8

OF 9

STANDARD SHEET NO.:

HW-584_08

NOT TO SCALE
###

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

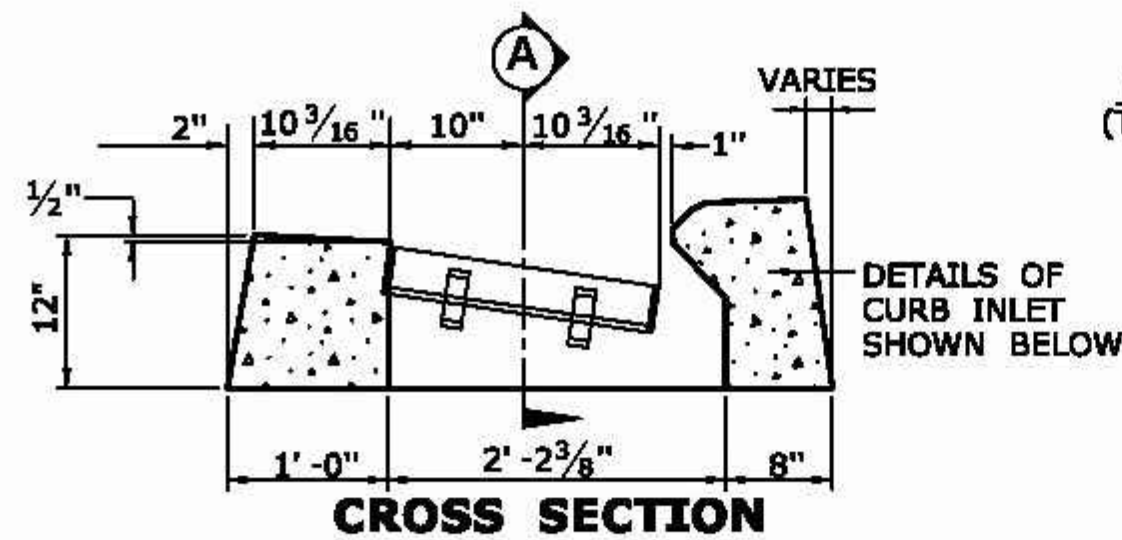
SUBMITTED BY:
Leo Fontaine, P.E.
2020.07.08
09-25-23-04027

APPROVED BY:
James Fallon, P.E.

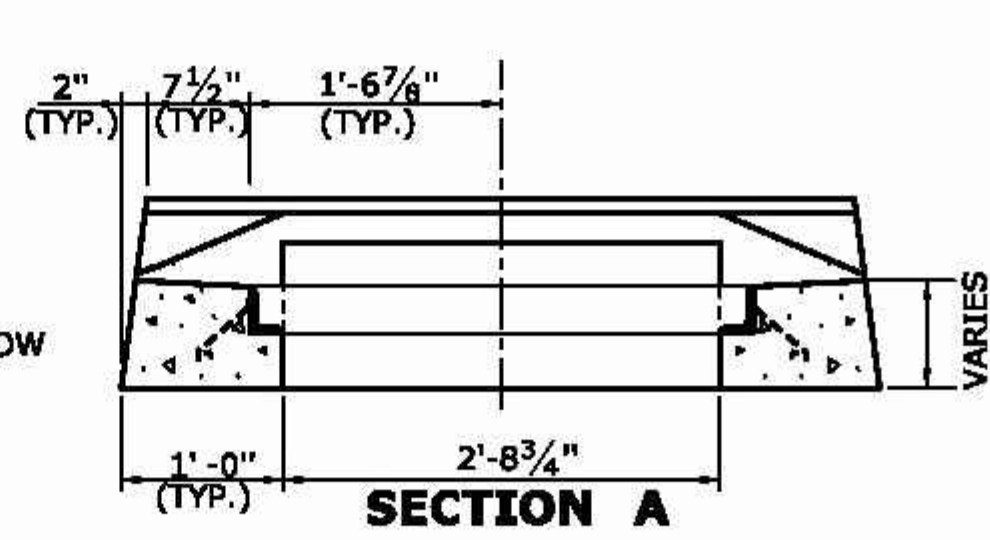


CTDOT
STANDARD SHEET

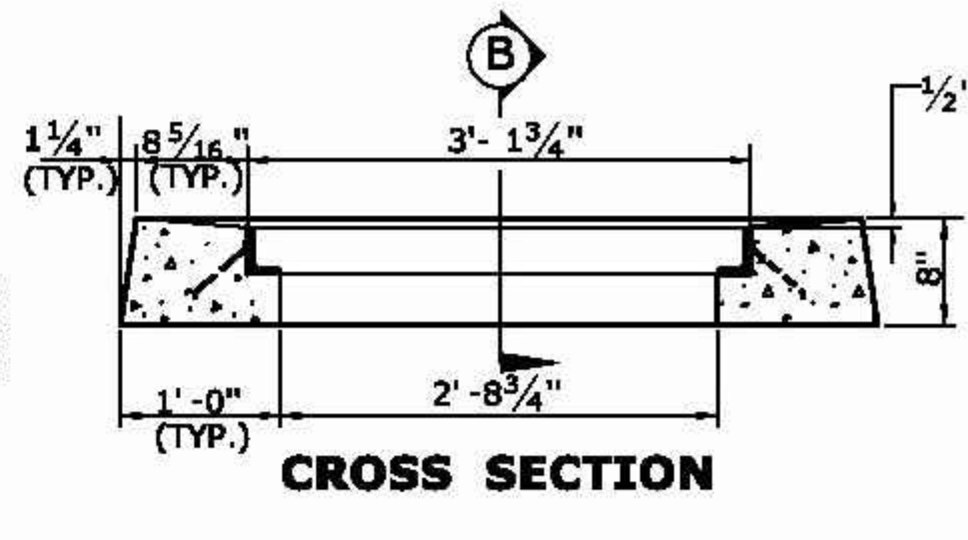
STANDARD SHEET TITLE:
CATCH BASIN FRAMES AND GRATES



CROSS SECTION
TYPE "C" CATCH BASIN TOP

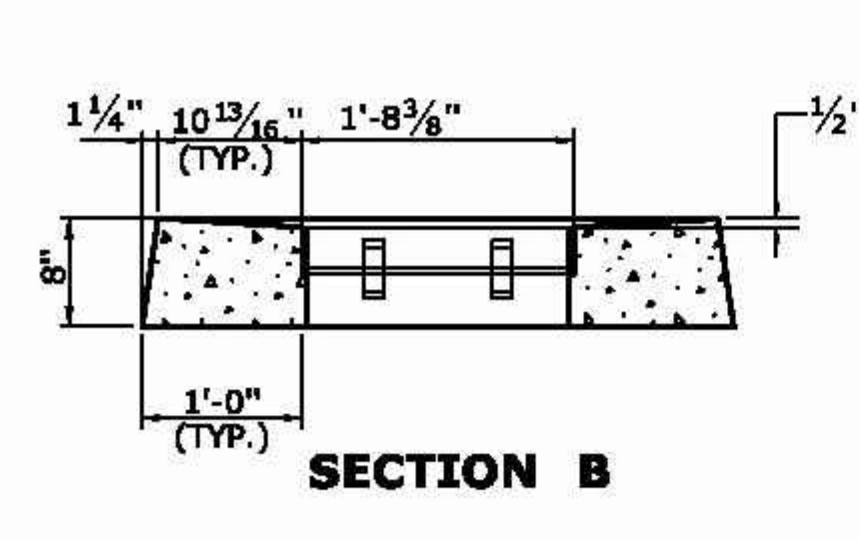


SECTION A



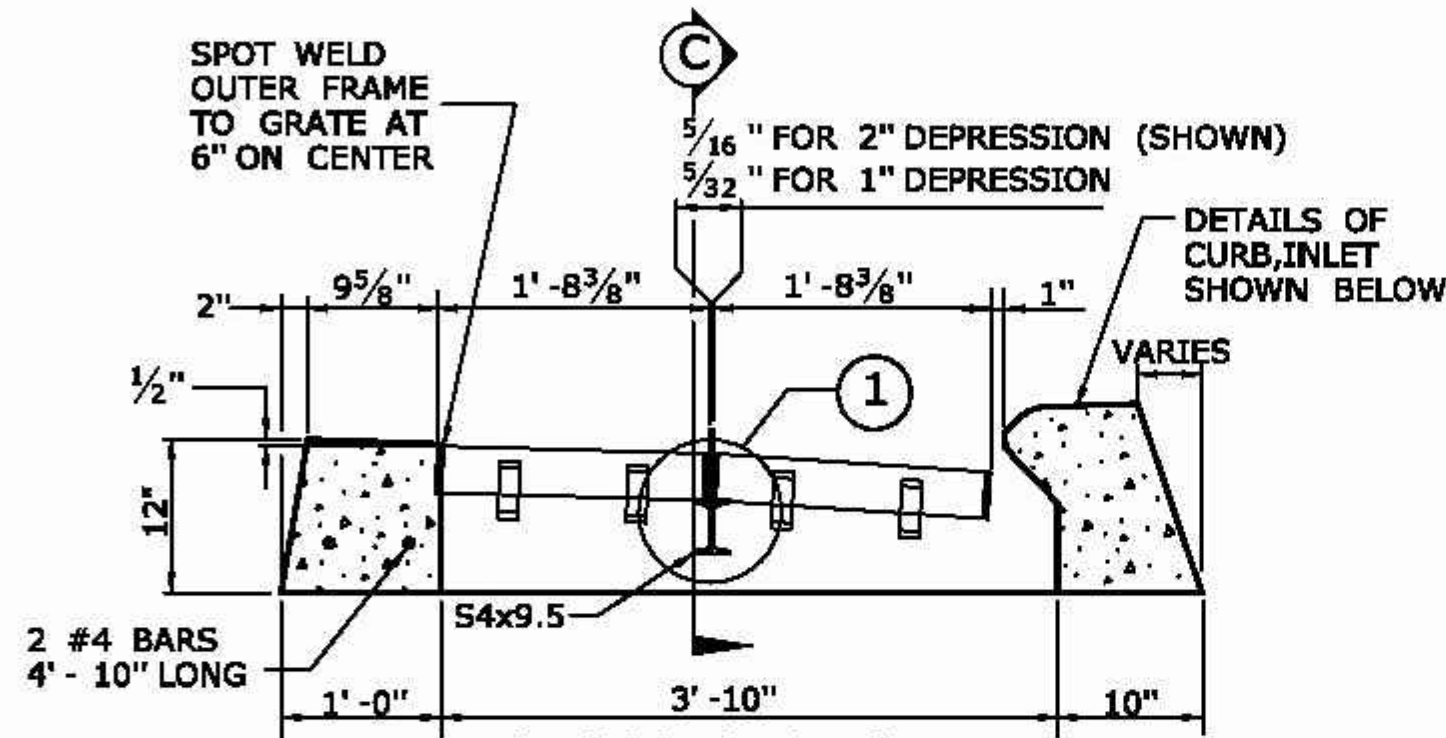
CROSS SECTION

TYPE "C-L" CATCH BASIN TOP

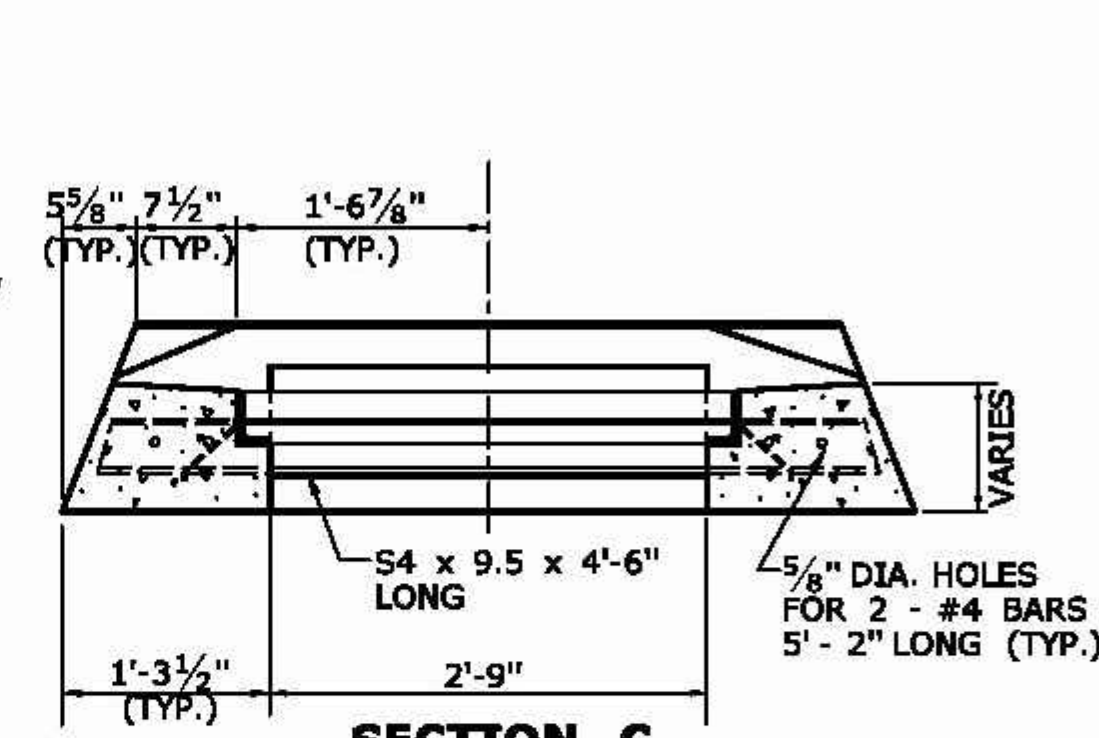


SECTION B

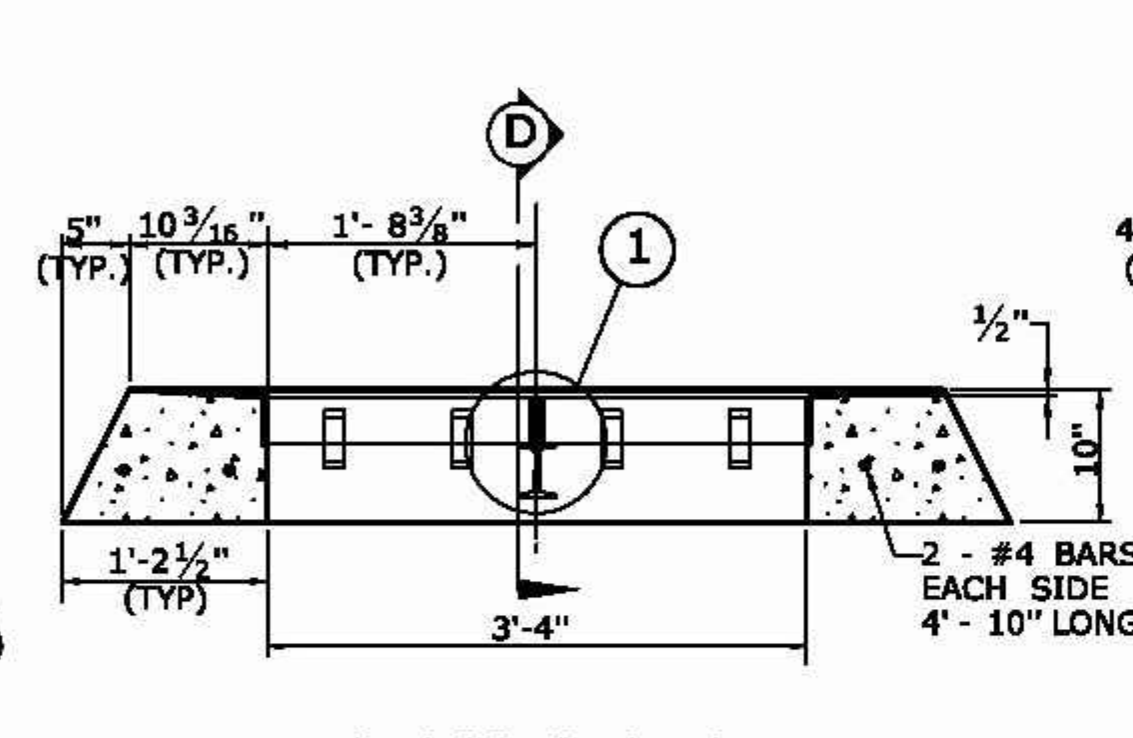
GENERAL NOTES:
1. FOR DETAILS OF FRAMES AND GRATES, SEE SHEET NO. HW-586-08.
2. ALL BARS SHALL HAVE A MINIMUM 2" COVER.



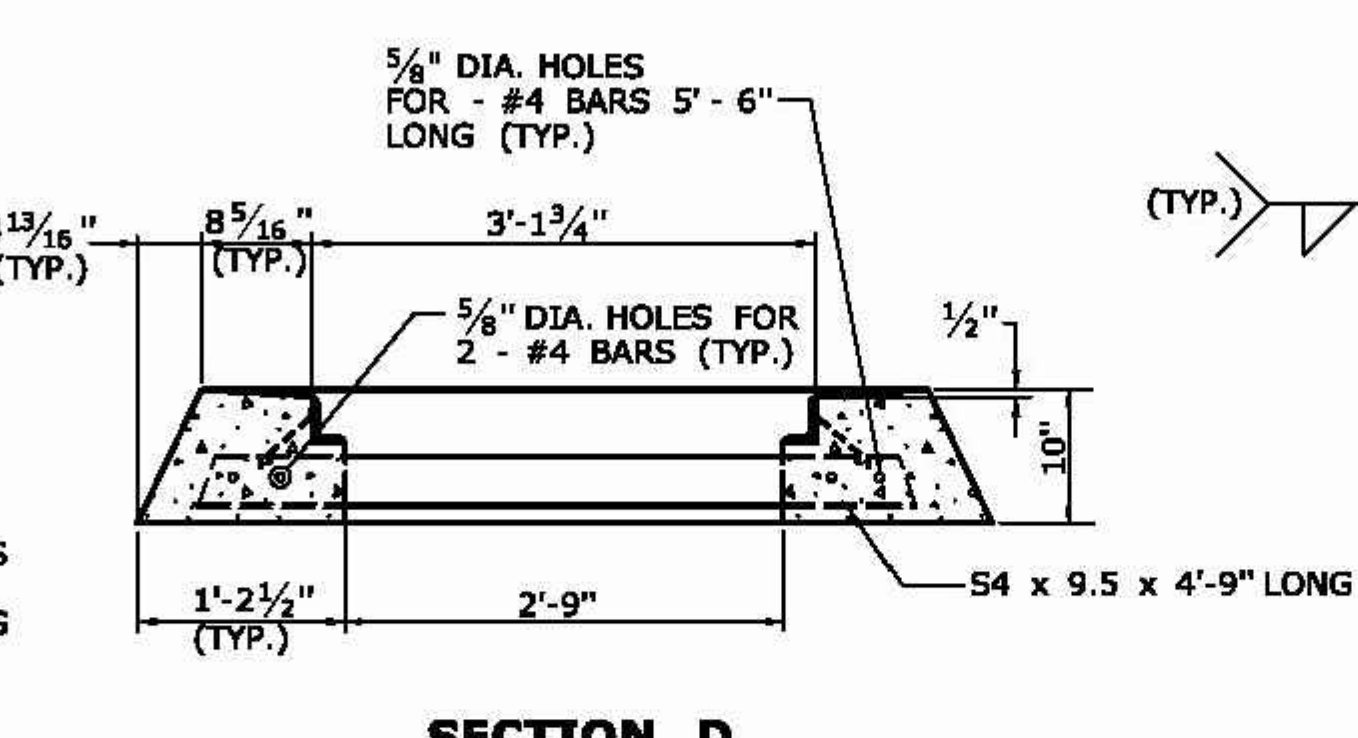
CROSS SECTION
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP



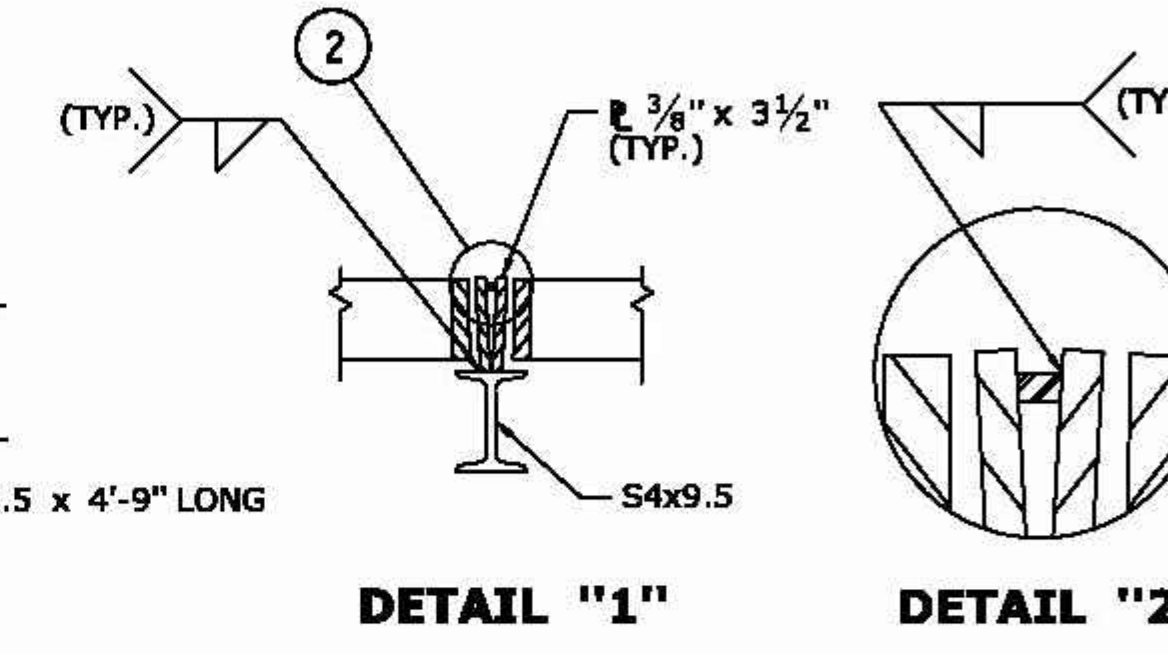
SECTION C



CROSS SECTION
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP

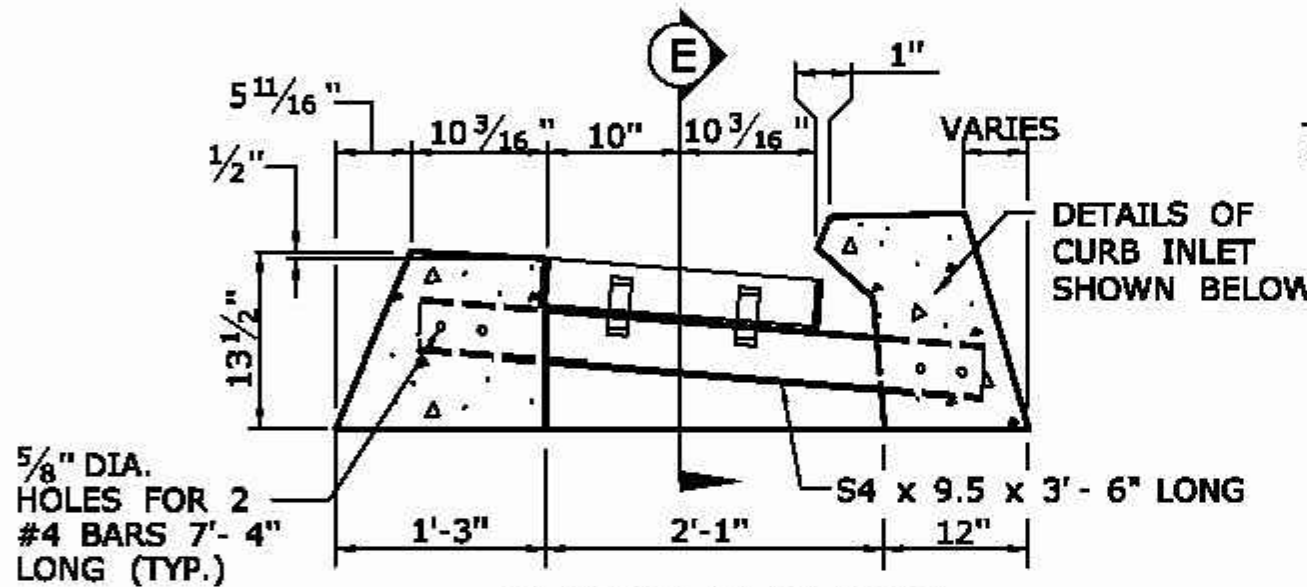


SECTION D

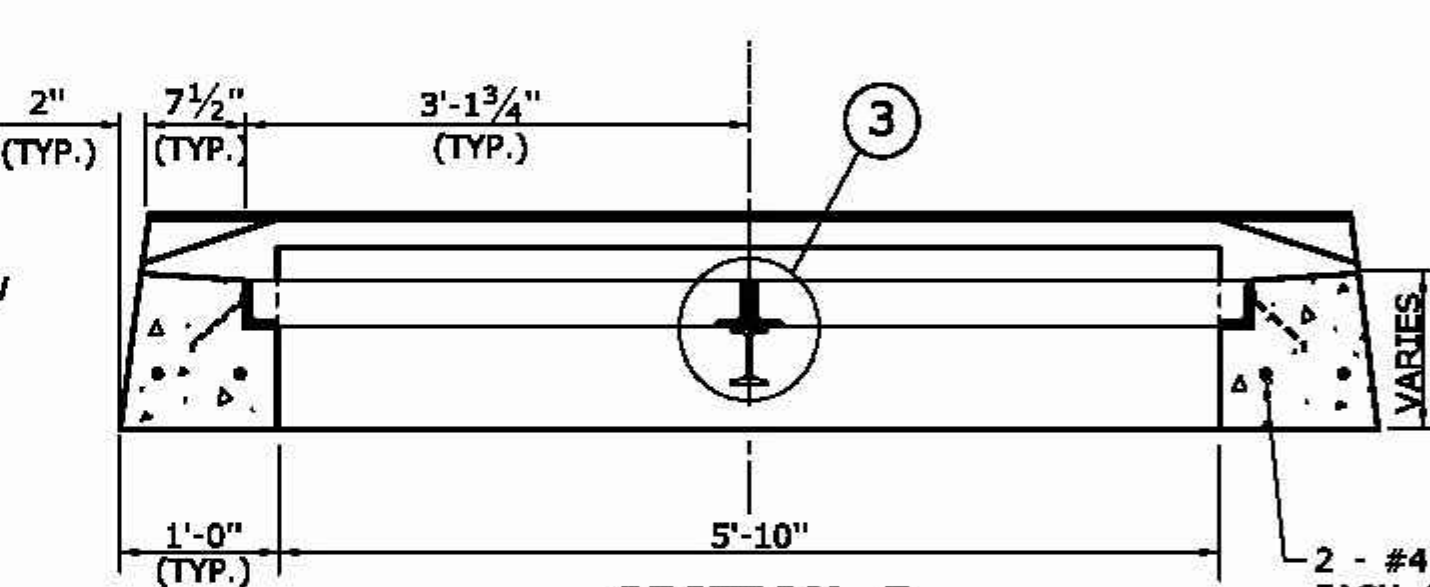


DETAIL "1"

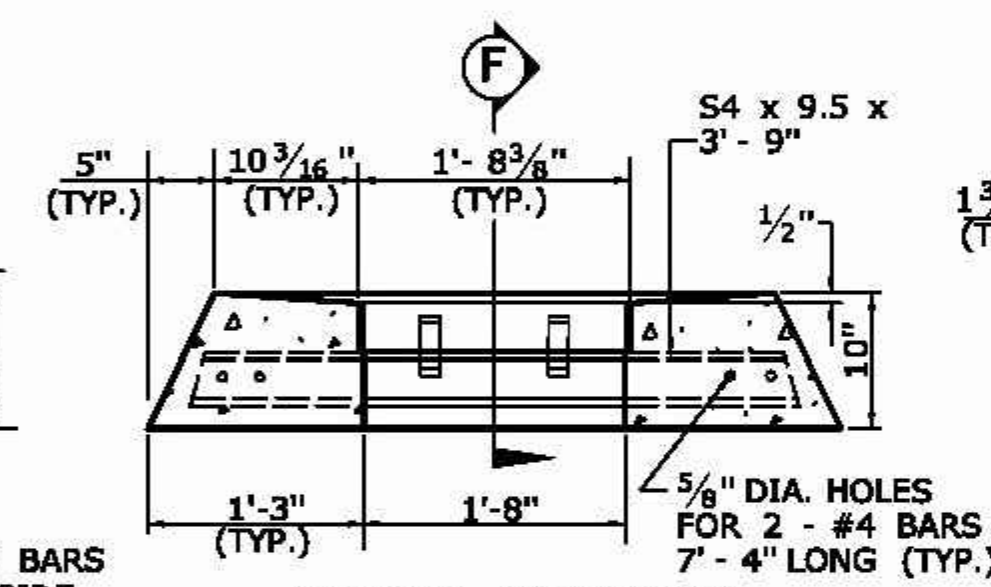
DETAIL "2"



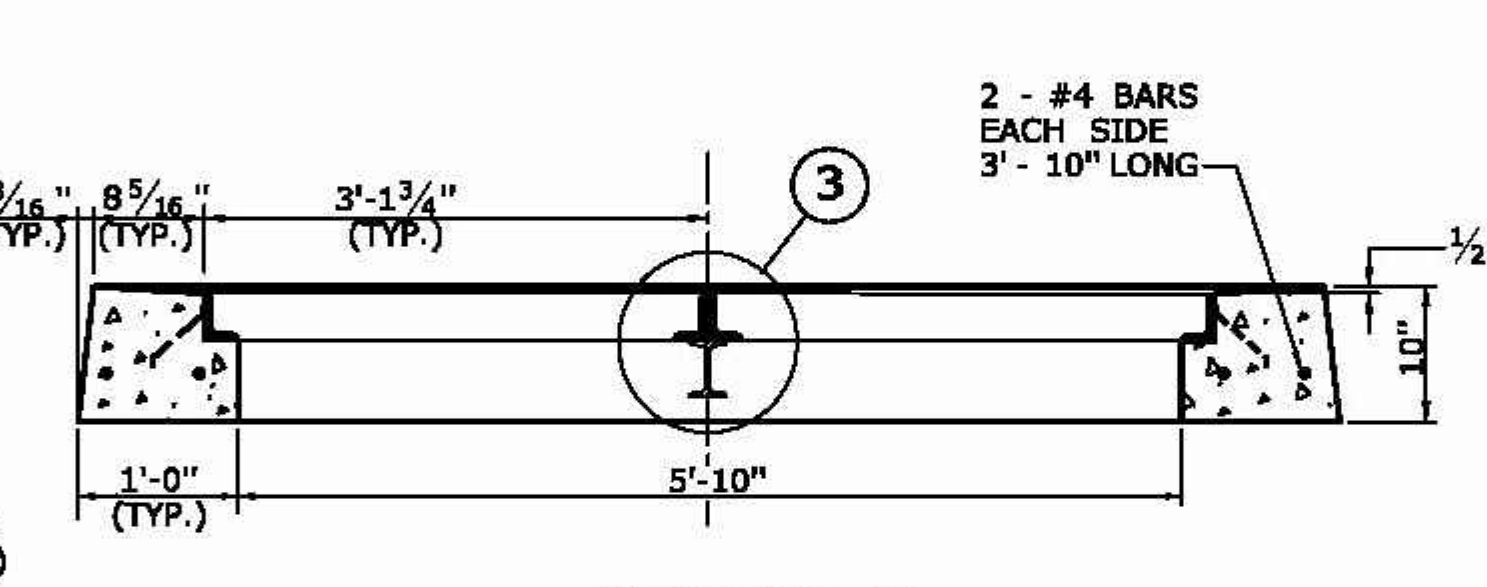
CROSS SECTION
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP



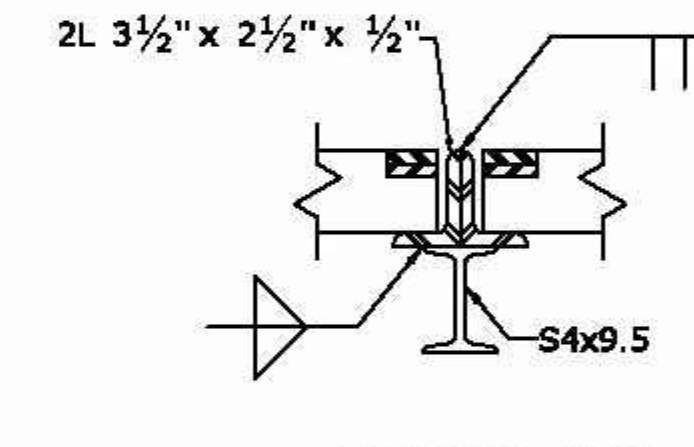
SECTION E



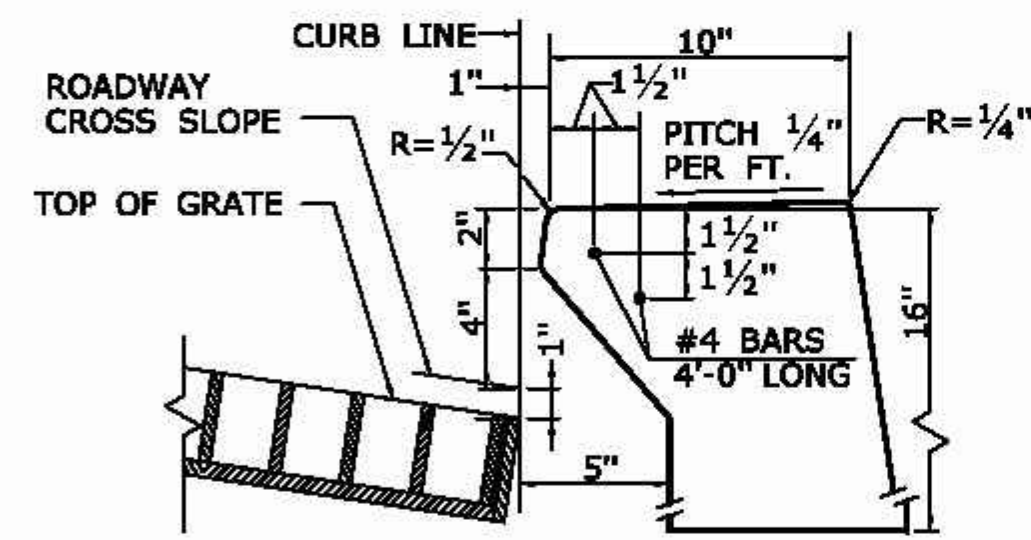
CROSS SECTION
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP



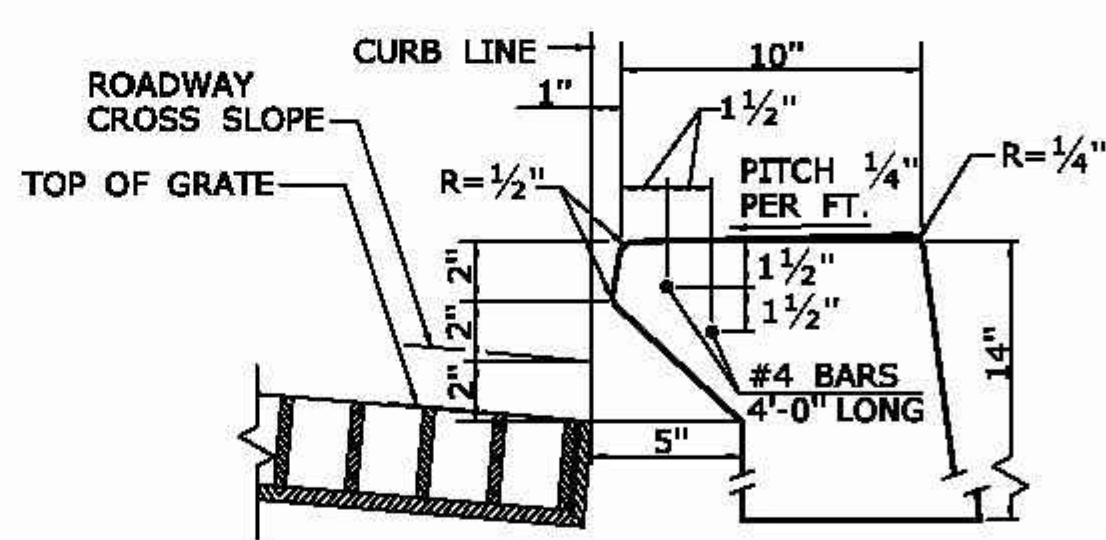
SECTION F



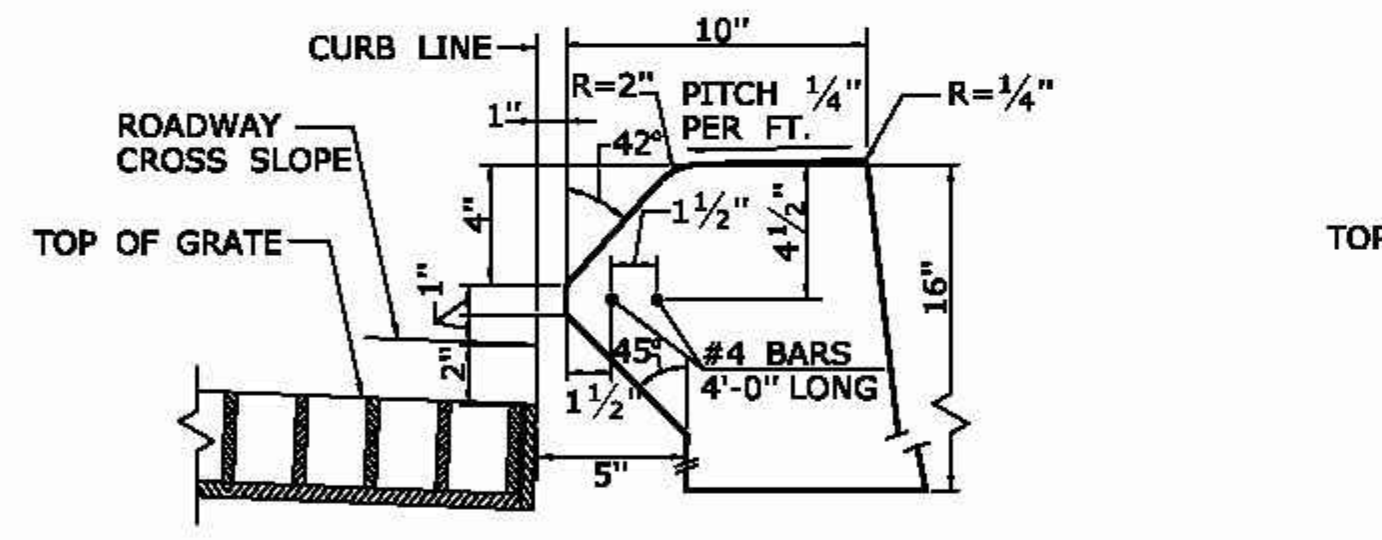
DETAIL "3"



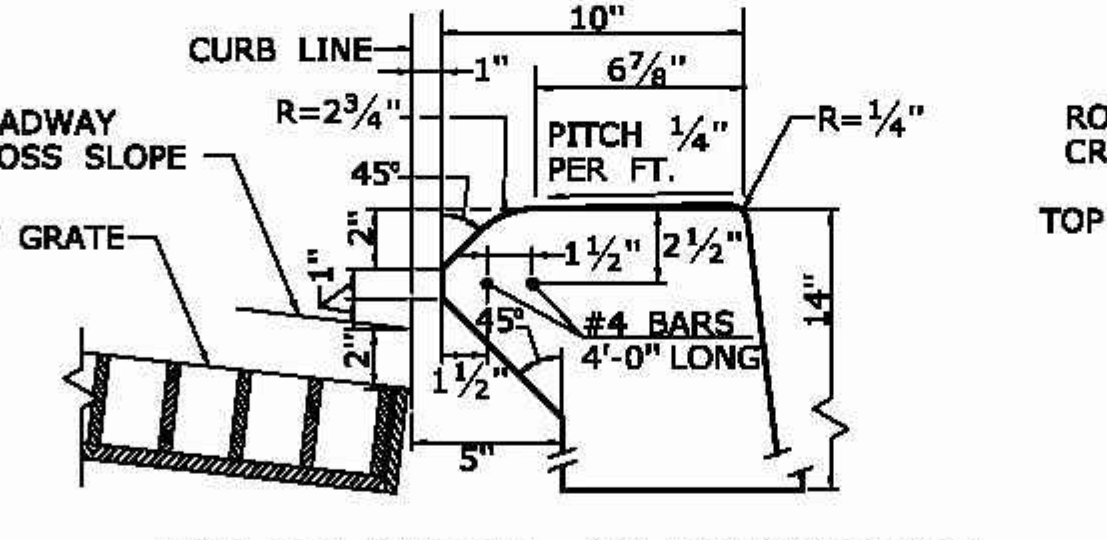
INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB



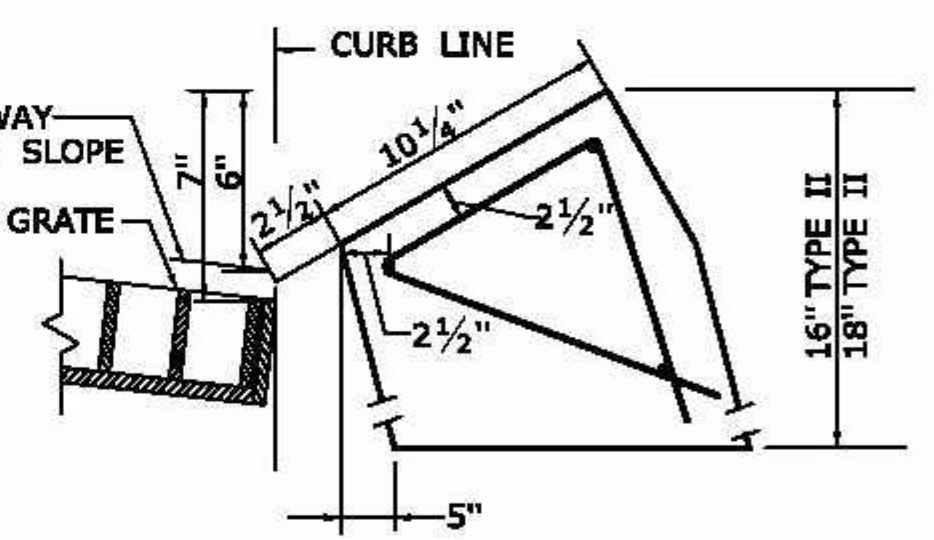
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB



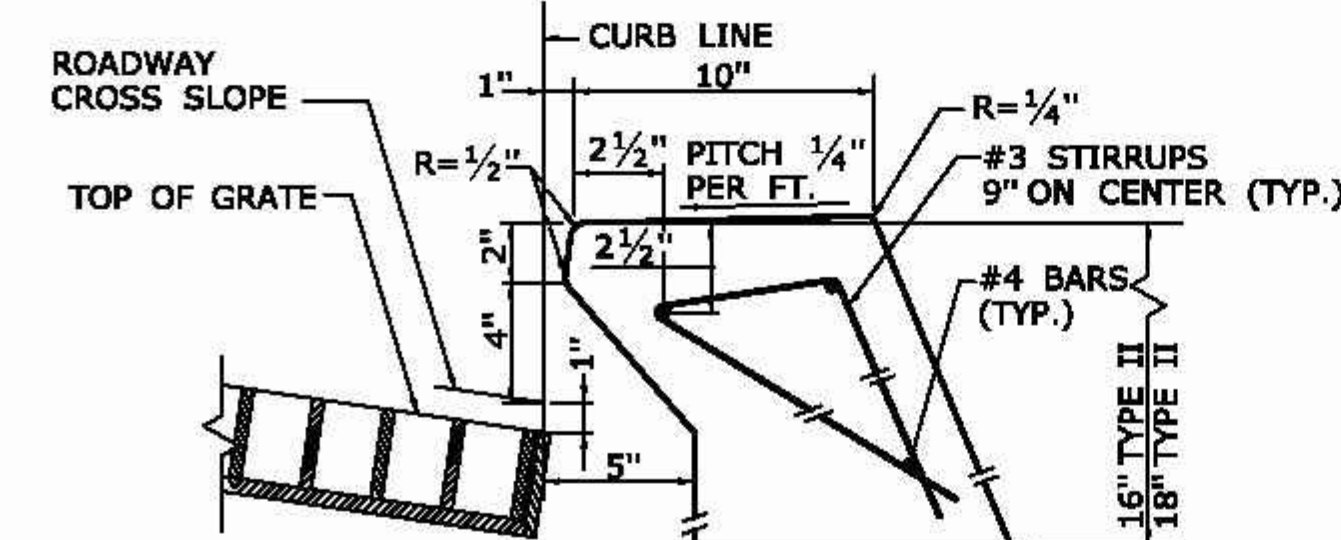
INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB



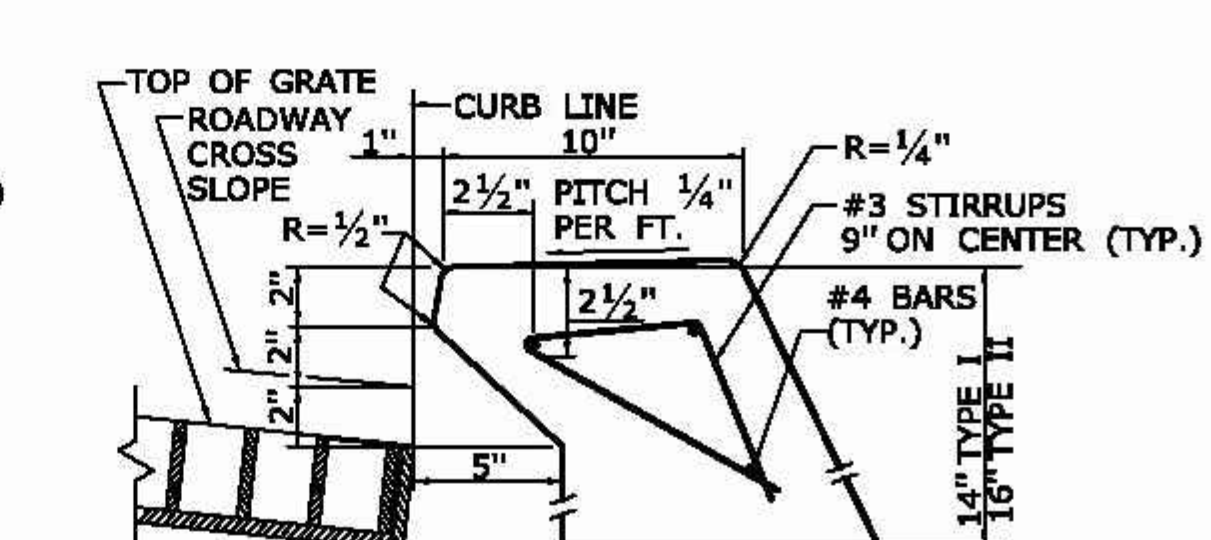
INLET WITH 4" CONCRETE PARK CURBING FOR TYPE "C" CB



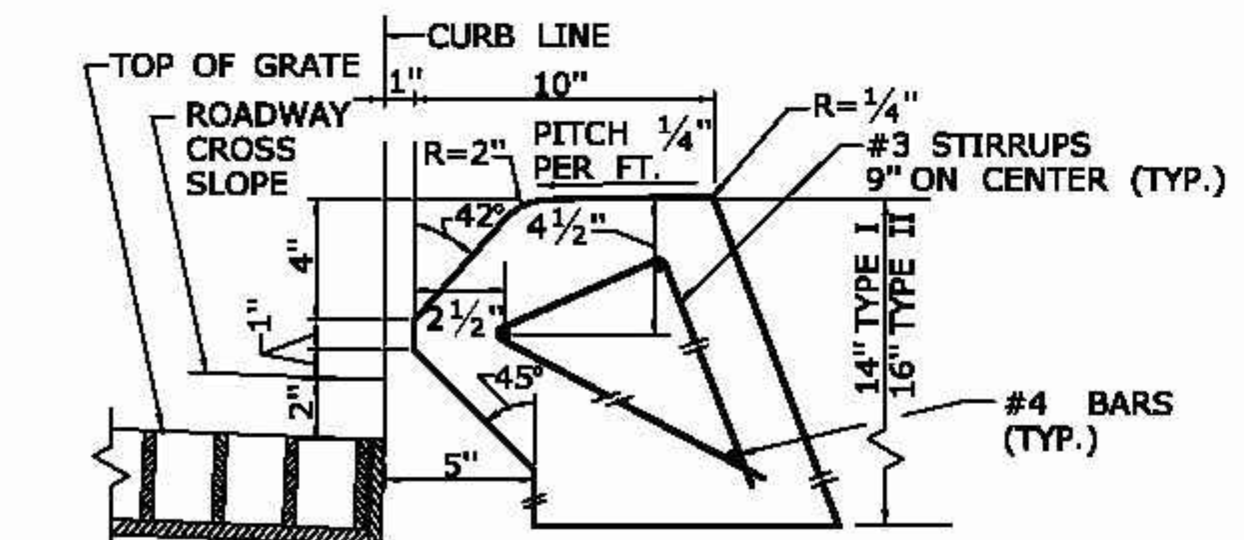
INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB



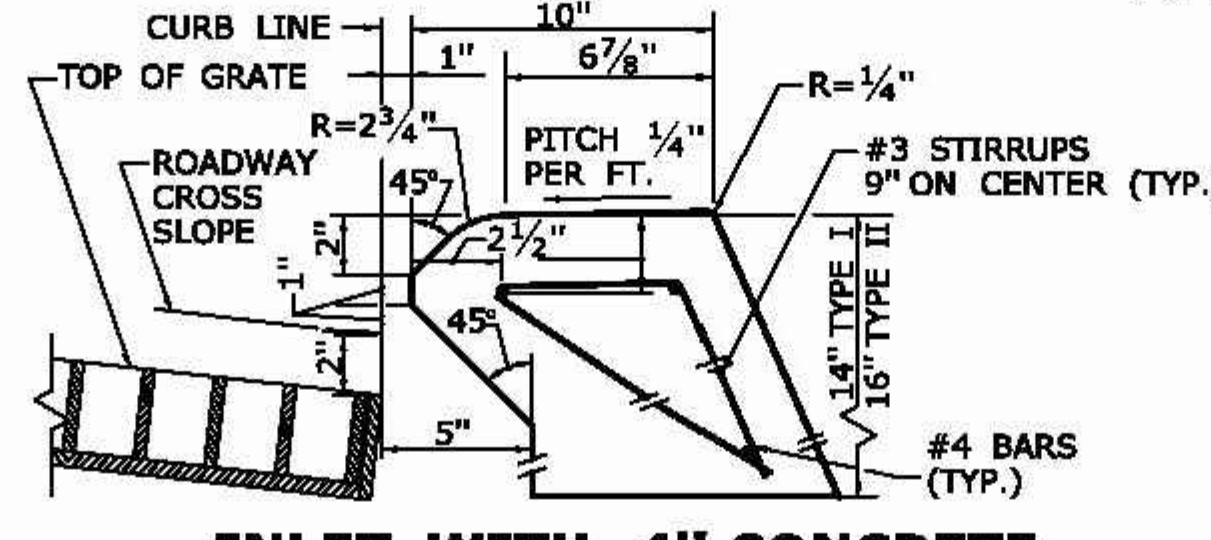
INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



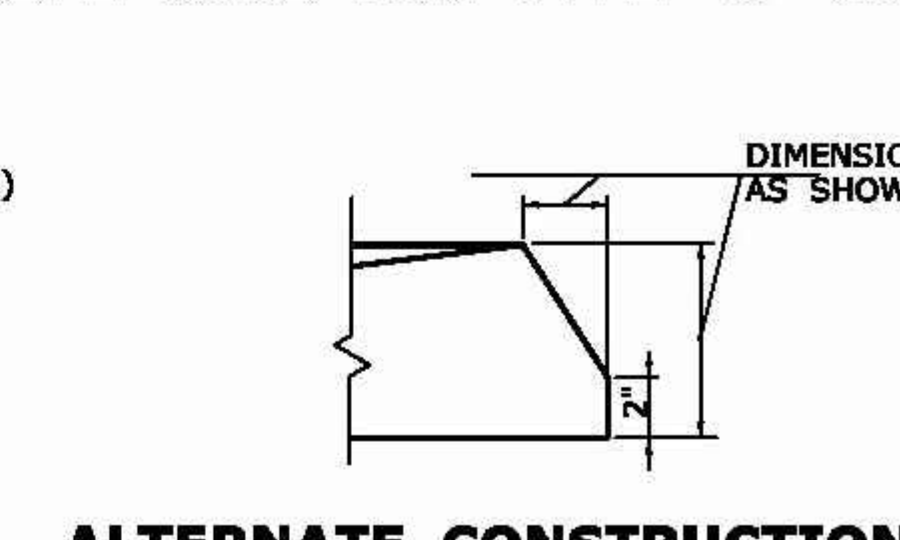
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



INLET WITH 4" CONCRETE PARK CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



ALTERNATE CONSTRUCTION OF TYPE II TOP

SHEET NO.

9

STANDARD SHEET NO.: HW-586-07

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Leo Fontaine, P.E.
2020.07.08
09.24.52-0407

APPROVED BY:
James Fallon, P.E.



CTDOT
STANDARD SHEET

STANDARD SHEET TITLE:
CATCH BASIN TOPS TYPE "C" AND "C-L"