

**MONTGOMERY COLLEGE - OFFICE OF PROCUREMENT
EAST GARAGE CONCRETE REPAIRS, TAKOMA PARK/SILVER SPRING CAMPUS
RFP NO.: 624-007
RFP CLOSING DATE AND TIME: APRIL 15, 2024 @ 2:00 PM**

**ADDENDUM #1
ISSUED: APRIL 4, 2024**

THE PURPOSE OF ADDENDUM IS TO MAKE CHANGES TO THE RFP DOCUMENTS AND PROVIDE ANSWERS TO THE REQUEST FOR CLARIFICATIONS.

NOTE: Similar requests for information that were received from different Contractors have been grouped under a single addendum item where appropriate, with a single comprehensive answer provided.

The following items offer clarifications that do change the requirements of the RFP documents. PLEASE MAKE CHANGES TO RFP DOCUMENTS AS FOLLOWS:

- 1-1 **Extend** the RFP closing date and time from **April 8, 2024 at 2:00 pm** to **April 15, 2024 at 2:00 pm**. Please make changes throughout the RFP documents.
- 1-2 Question: Can a quantity matrix of all repairs, including concrete repairs, post tension repairs, cable replacements, etc., be provided to the contractors for bidding purposes?
- Answer: Price Proposal Form is revised, reissued in its entirety and included in this Addendum. Please use revised price proposal form for submission. Failure to do will deem your price proposal unresponsive.
- 1-3 Question: The unit prices for the various concrete repairs are being requested per square inch. Can these unit prices be changed to be provided on a square foot basis?
- Answer: Please refer to the answer provided in Item 1-2.
- 1-4 Question: Unit prices for the crack repairs are requested on a per each basis. Can this unit price be changed to be provided on a linear foot basis?
- Answer: Please refer to the answer provided in Item 1-2.
- 1-5 Question: The location of the repairs may require relocation/removal/reinstallation of the MEP (such as conduit, lighting, etc.). This work is unknown to the bidders at the time of bidding and will not be accurately determined until the repair work is underway. Will Montgomery College be responsible to perform this work with their forces/subcontractors if required? If this is a contractor responsibility, can an allowance be added to the bid form so that all Contractors are bidding the same?
- Answer: Allowance has been established for any work requiring removal and reinstallation or relocation of any conduit, light fixtures or devices required to access repair areas. Contractor shall provide hourly rates for licensed electrician(s) to perform that work on a time and material basis, tickets provided to be billed against the allowance.

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- 1-6 Question: In the base bid you have a line item for miscellaneous metals, what does miscellaneous metals entail?
- Answer: That line item has been removed in the updated Price Proposal Form.
- 1-7 Question: May we please ask to change the requirement for project experience? RFP requested for relevant projects completed in the last 3 years.
- Answer: Contractor's relevant project experience completed in the last five years is acceptable. Please revise Part 1.2.e) Contractor's Relevant Project Experience both in 1.2 e.1 and 1.2e. 2 from "three years" to "five (5) years."

The following items offer clarifications that do not change any requirements of the RFP documents.

- 1-8 Question: Is building permit required for the project?
- Answer: The project is repair only and does not require any permits.
- 1-9 Question: Are there Liquidated damages for the project?
- Answer: There is no predetermined dollar amount of liquidated damages per day specified in the RFP documents. Please refer to General Conditions and Performance Bond Sections in the RFP documents for more information on liquidated damages.
- 1-10 Question: What is the total number of parking spaces needed to remain open at any given time? Can the college provide the amount of parking spaces the contractor is able to capture in one phase?
- Answer: 500 spaces should remain open, accessible and in use throughout the project. Contractor personnel on other campus construction projects will be assigned a full level for their exclusive use. The remaining spaces shall be allocated in conformance with the approved phasing plan. Phasing should be planned to meet the requirements.
- 1-11 Question: Can you confirm the size of post-tensioning system in slab?
- Answer: Existing drawings indicate that the system is 0.5. VIF.
- 1-12 Question: Is it required to GPR the garage slab on each level to identify the location of the PT cables?
- Answer: The 1 1/2" saw cut depth shown in the details was selected to be less than the reinforcing PT cover to avoid damage. The contractor may employ GPR, selective chipping, etc as deemed necessary to confirm and ensure that PT is not damaged. Any damage to sheathing or tendons

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that occurs during repair operations must be repaired as part of the base contract. GPR will be required for guardrail anchorage.

- 1-13 Question: The supplementary instructions state the NTP will be issued on June 1, 2024, with the work being completed on August 31, 2024. Can the NTP be provided to the successful contractor sooner? What is the earliest date that the repair work can start?
- Answer: Due to the award recommendation subject to the College Board approval and the internal administrative process, the College cannot promise an earlier NTP date, but we will do our best.
- 1-14 Question: Who is responsible for providing the steel inspector required for the tensioning of the cable guardrail system?
- Answer: See Note K1 on Drawing S0.01.
- 1-15 Question: Some of the photos indicate work is required on the building exterior. If so, does the entire exterior facade need to be accessed?
- Answer: Façade repairs required only where shown on the documents.
- 1-16 Question: Is providing an SSD condition acceptable in lieu of using a bonding agent for the concrete repairs?
- Answer: The repair plans call for SSD condition for repairs, and do not call for bonding agents on concrete surfaces.
- 1-17 Question: Is Neogard (Jones Blair) an acceptable membrane supplier for the Alternate #2 work?
- Answer: For a substitution to be considered, a specific product equal to or superior to the listed product must be provided for evaluation.
- 1-18 Question: For the Alternate #2 work, does the new line striping need to match the existing line striping? If so, can you provide the bidders with a layout of the existing striping plan?
- Answer: See note on Bid Alternate 2 on Drawing S0.01. New striping to be based on existing striping but modified to provide ADA compliant car and van spaces in code compliant quantities and locations.
- 1-19 Question: Is there a badging requirement for this project?
- Answer: No badging will be required.

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- 1-20 Question: For Bid Alternate #2 for the traffic coating – would Sikalastic 720 OneShot be acceptable to use?
Answer: Proposed substitutions must be submitted and reviewed, and will be considered if the product is shown to be equal to or better than the specified product.
- 1-21 Question: Will this project be designated for day shift or night shift? Can you please provide work hours?
Answer: Contractor to propose means of meeting stated schedule at no additional cost to the College. Contractor shall work in conformance with the Montgomery County Noise Control Law.
- 1-22 Question: How many stairwells can be captured at one time?
Answer: 2 stair towers need to be accessible for egress at all times.
- 1-23 Question: Can a copy of the sign in sheet for the pre-bid meeting be attached to the RFI answers?
Answer: Pre-Proposal meeting sign-in sheet is available on Procurement web site at <https://info.montgomerycollege.edu/offices/procurement/bid-opportunities.html>
- 1-24 Question: Are as-built structural drawings available?
Answer: The full set of As-Built drawings is included in the Addendum.
- 1-25 Question: What is the depth of the existing concrete deck slabs?
Answer: Existing drawings indicate the SOG is 6" and other levels are 5.5". VIF
- 1-26 Question: What is the Floor-to-Deck height per level?
Answer: Existing drawings indicate the floor to deck height per level is 9'-1 1/2". VIF
- 1-27 Question: What is the Floor-to-Beam height per level?
Answer: Existing drawings indicate the floor to beam height is 7'-0". VIF
- 1-28 Question: \$500K doesn't seem like enough for this job. It is possible to be reevaluated to provide an adequate budget?
Answer: The College has not established a budget for the project. Offerors shall provide bids conforming to their expected cost to perform the work of the project.

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- 1-29 Question: “State average annual amount of construction work performed in the last three years” please clarify how to answer this. Can average annual work performed be average annual project close out amount?
- Answer: Offeror shall provide total dollar amount of contracts performed in each of the last 3 years
- 1-30 Question: May we not submit subcontractor information form if we plan to self-perform all concrete?
- Answer: If self-performing all work, please state on the subcontractor information form that your firm is self-performed.
- 1-31 Question: Can we submit projects higher than \$500,000?
- Answer: Projects over \$500,000 can be submitted.

All other specifications, terms and conditions remain unchanged.

Index of Attachments to Addendum

List of Drawings or Portions Reissued in Entirety

004213 Price Proposal Form (revised)

Specification Sections or Portions Reissued in Entirety

None.

Drawings Reissued in Entirety

None.

Sketches

None.

Items Issued for Informational Purposes

Montgomery College Redevelopment of Takoma Park Campus Parking Garage, Silver Spring Maryland (East Garage as-built drawings).



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ADDENDUM #1
ISSUED: APRIL 4, 2024

Patrick Johnson

Patrick Johnson, MBA, CPPB
Director of Procurement

Please **sign** below to acknowledge receipt of this Addendum and return with the **Technical Proposal submission**. Failure to return this Acknowledgement of Addendum may deem a proposal nonresponsive.

NOTE: ACKNOWLEDGEMENT OF RECEIPT OF RFP ADDENDA WILL NOT BE ACCEPTED BY FACSIMILE AND/OR EMAIL.

Company Name

Authorized Signature

Date

Printed/Typed Signature

PRICE PROPOSAL FORM (REVISED)

To: Montgomery College

Re: RFP No.: 624-007
East Garage Concrete Repairs
Takoma Park/Silver Spring Campus

Attn.: Procurement Office
Montgomery College
9221 Corporate Boulevard
Rockville, Maryland 20850

From: _____
(Provide Your Company's Name)

PART 1 - Contractor must submit **one (1) original plus one photocopy**, marked “Original “ or “Copy” accordingly, of the Price Proposal Form and all attachments.

PART 2 - Please read the questions, note what is requested, then provide appropriate responses. Failure to answer any of the applicable questions contained in this section will make the proposal non-responsive and be grounds for rejection of the entire proposal. **Conditional proposals will not be accepted.** In order to be considered for the award, Contractor must bid all items and fill out all the following blanks. Failure to do so may deem a Contractor non-responsive.

PART 3- Contractor acknowledges receipt of the following Addenda:

Number _____ Date _____

Number _____ Date _____

Number _____ Date _____

Number _____ Date _____

Number _____ Date _____

Number _____ Date _____

PART 4 - BASE PRICE TOTAL (State amounts in both words and numbers where indicated)

The proposed total contract amount to complete the construction services for the **East Garage Repairs on the Takoma Park/Silver Spring Campus**, per terms, conditions, drawings and specifications, including all costs associated with the requirements specified in the RFP documents, and having examined both the site of the Work and all matters referred to in the RFP documents, is:

(In Words): _____ Dollars

(In Numbers): \$ _____

Item #	Repair Description	Quantity	Unit	Unit Price	Extended Price
1	General Conditions/Lump Sum Including cable Guardrail, cleaning of parapet anchors, and all other items called out on drawings without unit prices		Lump Sum		
2	Horizontal Partial Depth Repairs	7500	Sq. ft.		
3	Vertical Partial Depth Repairs	250	Sq. ft.		
4	Overhead Patch Repairs	350	Sq. ft.		
5	Gravity Fed Crack Repairs	70	Linear Ft.		
6	Epoxy Injection Repairs	1800	Linear Ft.		
7	Form and Pour Repair	4	Sq. ft.		
8	Curb Repair	10	Linear Ft.		
9	P.T. Tendon Repair	1	Ea.		
10	Non-Structural Crack Repair	4000	Linear Ft.		
11	Ramp Extension (top demo)	35	Sq. ft.		
12	Ramp Extension (bottom fill)	725	Sq. ft.		
13	Owner Allowance to Remove/Reinstall Conduit, Lighting and Devices for Access to Repair Areas				\$30,000
13	Overhead & Profit				
14	Insurance				
15	Performance, Labor and Material Payment Bonds				
16	Base Price Total (Sum of Line Items 1-15)				

PART 5 - SPECIAL PRICING REQUIREMENTS (State amounts in both words and numbers)

A. ALLOWANCES

An Owner Allowance of \$30,000 (thirty thousand dollars) to remove/reinstall conduit, lighting and devices for access to repair areas has been included in Line Item 13 of Part 4 Base Price Total. To expend funds from any allowance, Contractor must secure written authorization from Montgomery College. Any unused funds shall be returned to the College.

Indicate the hourly rates of all trades (licensed if required) to perform the work if needed:

B. UNIT PRICES

Provide unit prices to establish a fixed basis for costs for adding or changing specified quantities of work from those indicated in the contract drawings and specifications, when directed in writing by the College to make such changes. The unit prices must be **inclusive of all costs** associated with the requirements listed herein, and shall include all labor, materials, equipment, overhead, bonds, insurance and profit and shall either be added to or subtracted from the quantity of this type of work specified as a result of field conditions.

1. Add/Deduct of One Vehicle Stop, Furnished and installed.

(In Words): _____ Dollars

(In Numbers): \$ _____

2. Broken Tendon Repair Detail A/S3.01 - Per Linear Foot

(In Words): _____ Dollars

(In Numbers): \$ _____

3. Damaged Tendon Repair Detail – Per Linear Foot

(In Words): _____ Dollars

(In Numbers): \$ _____

4. End Anchor Replacement – Per Each

(In Words): _____ Dollars

(In Numbers): \$ _____

5. PT Damaged Sheathing Repair per Detail D/S3.01 – Per linear foot or part thereof

(In Words): _____ Dollars

(In Numbers): \$ _____

6. Spalled Concrete and Corroded Rebar Cleaning per Detail E/S3.01 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

7. Lap Splice Rebar Repair per Detail F/S3.01 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

8A. Edge Joint Detail Between New and Existing Concrete per Detail G/S3.01 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

8B. Edge Joint Detail Between New and Existing Concrete per Detail H/S3.01 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

9. Bottom of Curb Repair per Detail J/S3.01 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

10. Partial Depth Horizontal Repair per Detail A/S3.02 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

11. Vertical or Overhead Patch Repair per Detail B/S3.02 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

12. Full Depth Slab Repair per Detail C/S3.02 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

13. Overhead Form and Pump Repair per Detail D/S3.02 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

14. Gravity Fed Crack Repair per Detail E/S3.02 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

15. Epoxy Injection Crack Repair per Detail F/S3.02 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

16. Form and Pour Repair per Detail G/S3.02 – Per square foot

(In Words): _____ Dollars

(In Numbers): \$ _____

17. Non-structural Crack Repair per Detail H/S3.02 – Per each

(In Words): _____ Dollars

(In Numbers): \$ _____

C. ALTERNATES

Complete scope of work on the following Add Alternates as per terms, conditions, drawings and specifications, including all costs associated with the requirements specified in the RFP documents, and having examined both the site of the Work and all matters referred to in the RFP documents.

Add Alternate #1: Paint All Vertical Surfaces and Underside of Slabs

(In Words): _____ Dollars

(In Numbers): \$ _____

Add Alternate #2: Provide Shop Drawings, Additional Traffic Coating, Restriping in compliance with ADA requirements per notes in Drawing S0.01, and Marking of Entire Garage.

(In Words): _____ Dollars

(In Numbers): \$ _____

Add Alternate #3: Provide Lump Sum for 75 Vehicle Stops, Furnished and Installed.

(In Words): _____ Dollars

(In Numbers): \$ _____

D. SEPARATELY IDENTIFIED PRICES – NOT USED

PART 6 - BID SURETY

- A. The bid surety attached in the sum of _____ Dollars (\$ _____) is to become the property of the College in the event the Contract and Bond are not executed with the time set forth, as liquidated damages for the delay and additional expense to the College caused thereby.
- B. The undersigned includes the following submissions as part of the Price Proposal Form:
- Bid Bond (AIA Document A310-2010, “Bid Bond”) if the total bid amount exceeding \$100,000.
 - Bonding Company Letter

PART 7 – PRICE PROPOSAL SUBMITTAL ATTACHMENTS

- A. AIA Document A310-2010, Bid Bond or Certified Check in an amount **not less than 5%** of the Total Bid Amount, including all add alternates, but excluding all deduct alternates, if applicable.
- B. Bonding Company Letter Guaranteeing the Required 100% Performance, Labor and Material Payment Bonds.

PART 8 – The undersigned agrees, if selected as the Contractor, to execute a Contract in accordance with the terms of this Request for Proposals and the Contract Documents, within five (5) days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the College.

PART 9 – Upon contract award, the undersigned agrees to hold prices firm for the duration of the overall contract term.

PART 10 - The undersigned acknowledges the right of the College in its sole discretion to accept any Proposal or to reject any or all Proposals.

PART 11 - The undersigned further certifies under the penalties of perjury that this proposal is in every respect bona-fide, fair and made without collusion or fraud with another person, joint venture, corporation, partnership or other business or legal entity.

PART 12 - SIGNATURES:

(Date)

(Company Name)

(Address)

(Telephone Number)

(Facsimile Number)

By:
SEAL IF A CORPORATION

Authorized Agent & Title (Print)

Signature

(F.E.I.N.)

(Contractor License Number)

(Contact E-mail Address)

BE SURE TO SIGN YOUR BID

MONTGOMERY COLLEGE

REDEVELOPMENT OF TAKOMA PARK CAMPUS

PARKING GARAGE

SILVER SPRING, MARYLAND

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LANDSCAPING

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ARCHITECTURAL

- A-1 PLANS, LEVELS 1,2,3&4 AND DETAILS
- A-2 PLAN, LEVEL 5, BUILDING ELEVATIONS AND SECTION
- A-3 STAIRS AND ELEVATOR PLANS AND DETAILS
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- P-1 PLANS, LEVEL 1,2,3&4 PLUMBING & FSP
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- E-1 POWER AND LIGHTING PLANS, LEVELS 1,2,3 AND 4, SYMBOL LIST AND FIXTURE SCHEDULE
- E-2 POWER AND LIGHTING PLAN, LEVEL 5 POWER AND MISC. RISER DIAGRAMS, SPECIFICATIONS AND SCHEDULES

SKIDMORE OWINGS & MERRILL

ARCHITECTS • ENGINEERS • PLANNERS

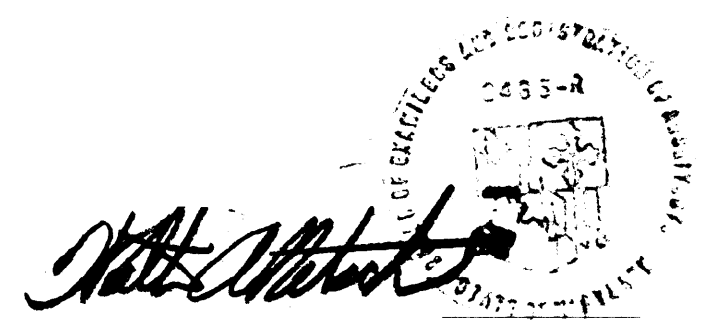
CHICAGO • WASHINGTON D.C.

COLLEGE PRESIDENT

ADMINISTRATIVE VICE PRESIDENT

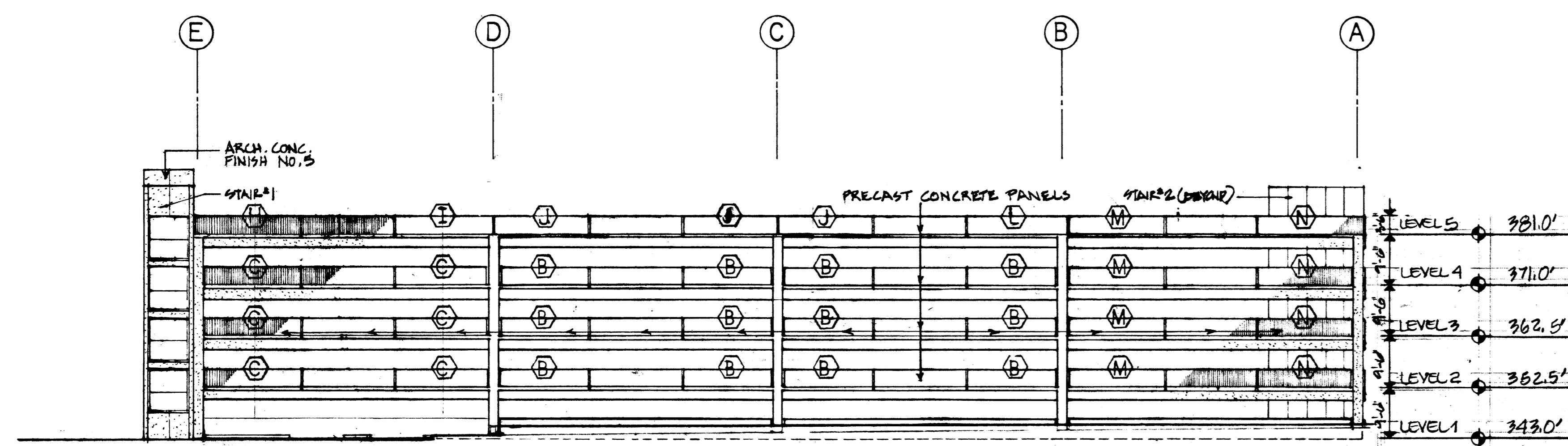
CAMPUS CHANCELLOR

DIRECTOR OF COLLEGE FACILITIES

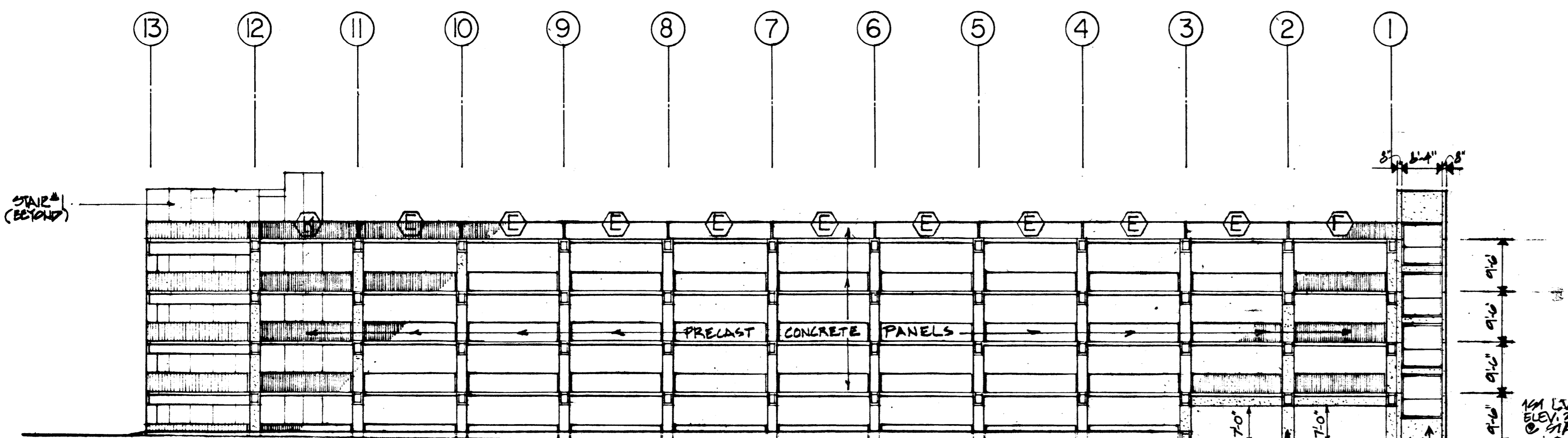


TECHNICAL SPECIFICATIONS

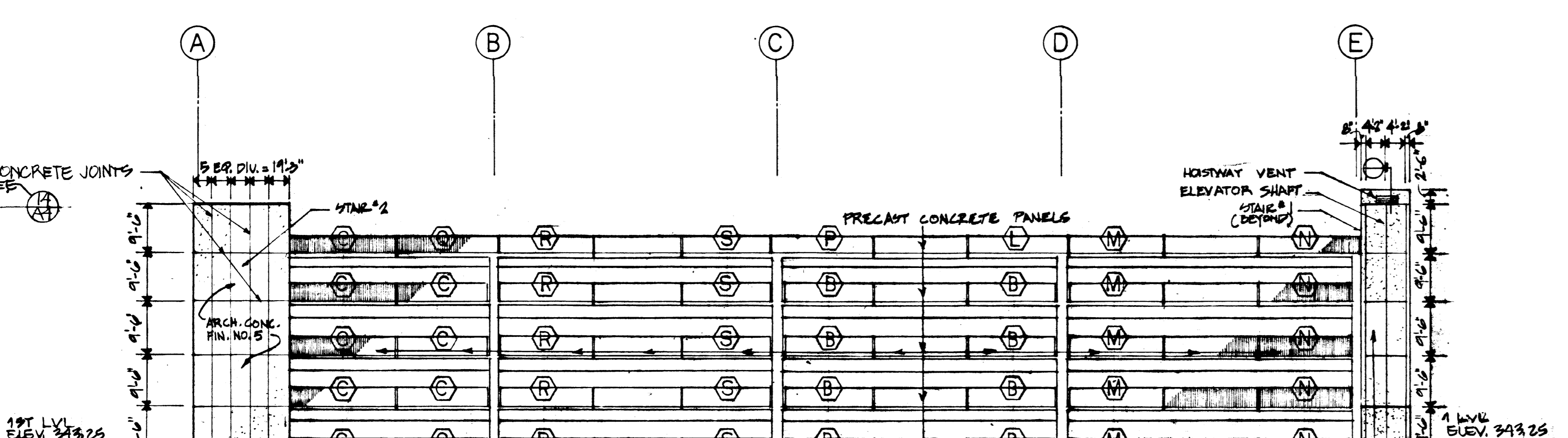
- ROOF WATERPROOFING:** Apply TWPproof 850 one-part polyurethane liquid applied system. Coat the entire roof surface in accordance with the manufacturer's instructions. Color: Tan. Submit test literature for information and samples for acceptance.
- WIRE MESH:** Clear Wire Mesh: Type II, Class 1, Quality Q8, Form 1, with pattern A3 wire mesh where shown.
- LAMINATED GLASS:**
 - Glass for lamination shall be of quality as hereinbefore specified for each type:
 - Clear Plate or Float.
 - Adhesive Laminating Film: Except as may be otherwise required to produce a successful lamination, use polyvinyl butyral plastic sheet laminated specifically for laminating glass. Unless otherwise shown or specified, use clear sheet of 0.015" (0.375 mm) minimum thickness.
 - Fabrication: Laminates all units at the factory, using the manufacturer's standard heat-plus-pressure process. Exercise extreme care to exclude dirt and other foreign materials from the lamination, and to eliminate all voids and delaminated surfaces from the work.
 - Cut units to proper size at the factory so that no cutting of laminated glass will be required at the project site. Cutting and edge treatment shall be in accordance with the glass manufacturer's recommendations.
 - Guarantee: Submit to Architect, 2 copies of manufacturer's guarantee agreeing to replace any laminated glass which shows evidence of delamination, deterioration of plastic sheets or laminating film, loss of transparency, color change or other forms of deterioration due to defective materials or lamination, within a period of 5 years after date of shipment to the project site.
- SEALANT:** Two-part Polyurethane Modified Sealant (2-PMS).
 - Dymecic; Tremco Mfg. Co.
 - Iso-Flex 2000; Harry S. Peterson Co.
 - Sonplastic MP-II; Sonneborn-Contech Inc.
- JOINT FILLER:** Expanded-Polyethylene Joint Filler (EJIF).
 - Tremco Joint Backing; Tremco Mfg. Co.
 - Ethafoam S8; Dow Chemical Co.
 - Toch Rod B; Toch Brothers, Inc.
- EXTERIOR GLAZING:**
 - Preformed Butyl Mastic Tape (PBM-T). (Alum. Color)
 - Tremco 440 Preformed; Tremco Mfg. Co.
 - Tremco-Bonded Extra-Seal Tapes; Tremco Corp.
 - PPI 303 Spacer Rod Tape; Protective Treatments, Inc.
- INTERIOR GLAZING:**
 - Holded Resilient Neoprene Gaskets (HRNG): ASTM D 755 Class SC; continuous extruded neoprene gaskets of 40 to 60 Shore A durometer hardness.



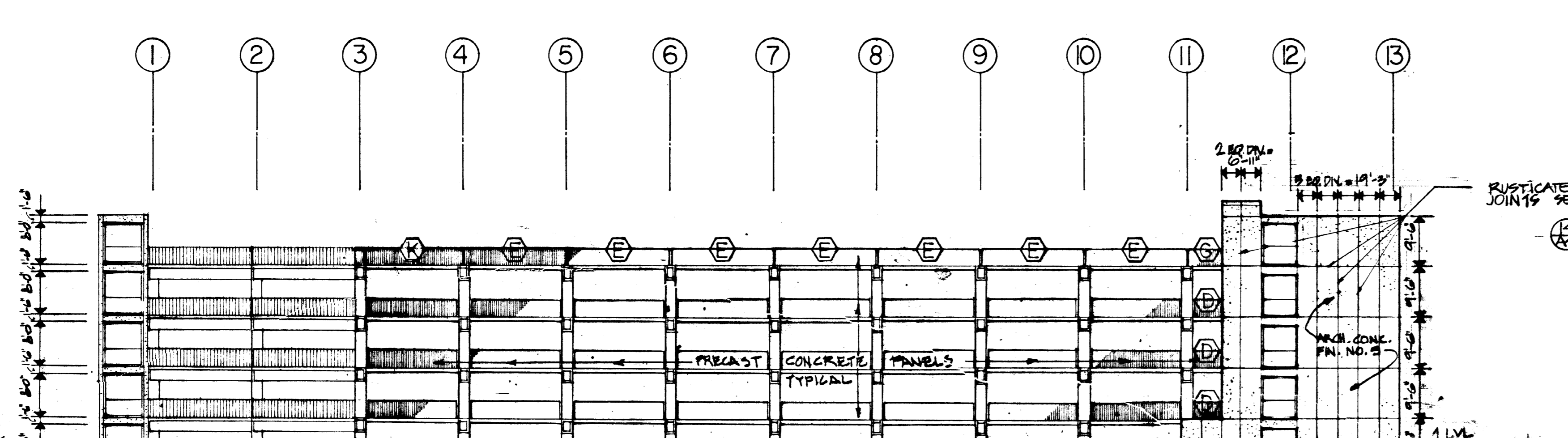
A EAST ELEVATION NOTE: ALL PRECAST CONCRETE PANELS ARE TYPE "A" UNLESS OTHERWISE NOTED.



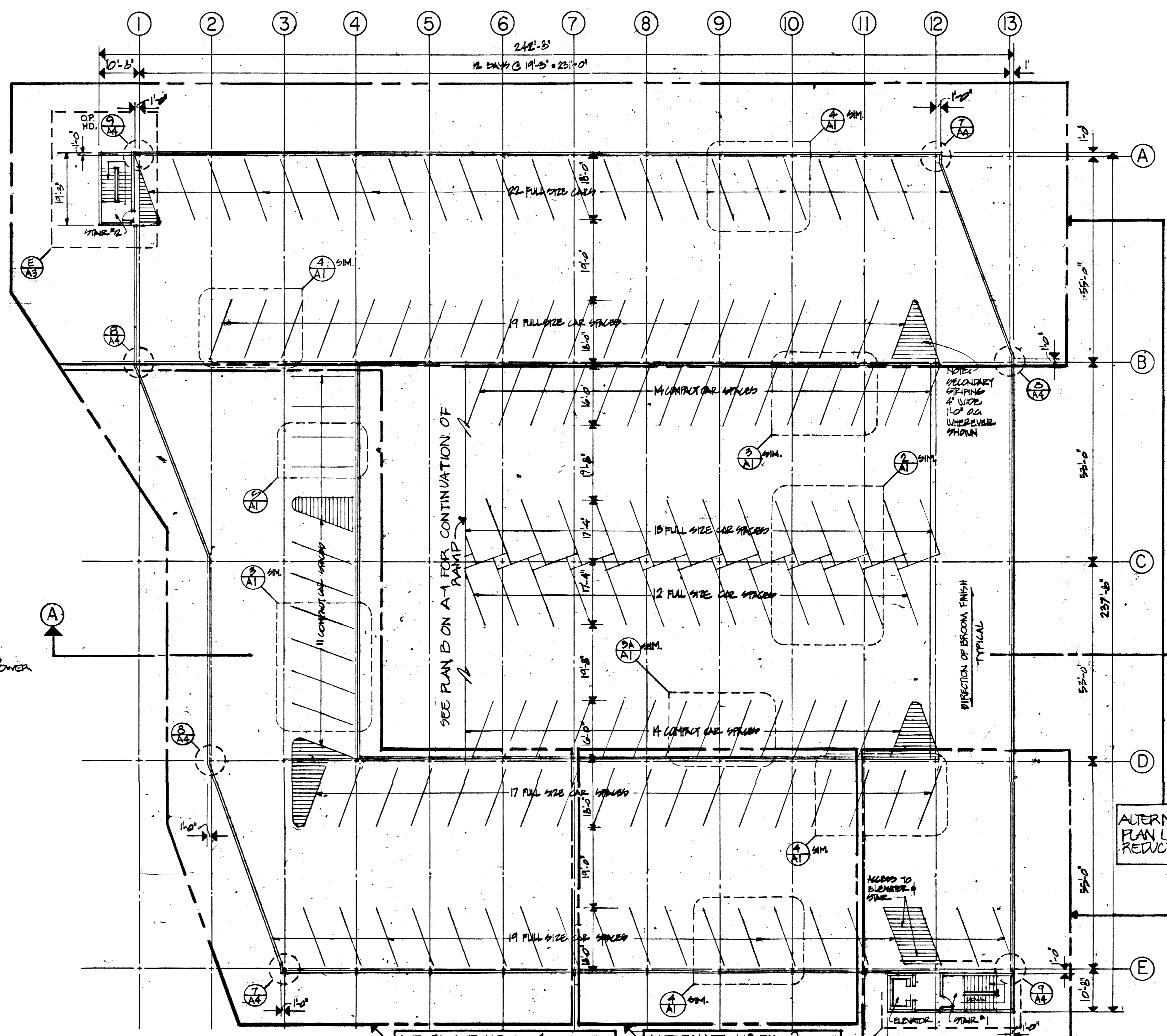
B NORTH ELEVATION NOTE: ALL PRECAST CONCRETE PANELS ARE TYPE "A" UNLESS OTHERWISE NOTED. MAXIMUM CLEAR HEIGHT OF 7'-0" MUST BE AT ENTRANCES TO GARAGE.



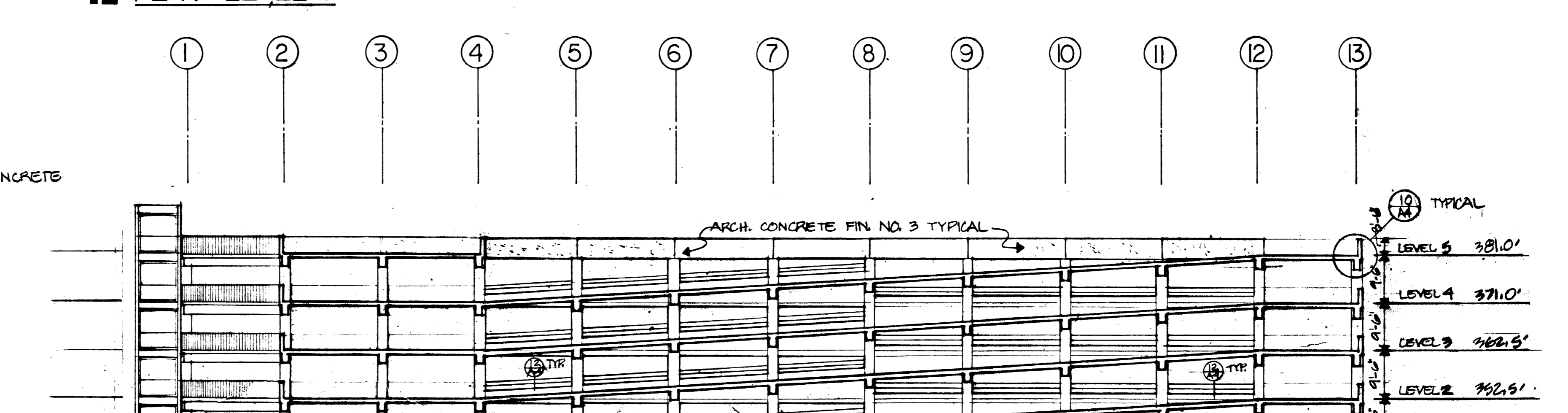
C WEST ELEVATION NOTE: ALL PRECAST CONCRETE PANELS ARE TYPE "A" UNLESS OTHERWISE NOTED.



D SOUTH ELEVATION NOTE: ALL PRECAST CONCRETE PANELS ARE TYPE "A" UNLESS OTHERWISE NOTED.



E PLAN LEVEL 5 SEE DRAWINGS 5-1 FOR FLOOR ELEVATION AND DRAINAGE SLOPE



F SECTION A-A

NO.	DESCRIPTION	BY	DATE ISSUED
1	ISSUED FOR BIDDING	KW	10-23-78
2	ISSUED FOR OWNER'S REVIEW	KW	11-14-78

REVISIONS

MONTGOMERY COLLEGE.
REDEVELOPMENT OF TAKOMA PARK CAMPUS
TAKOMA PARK MARYLAND

PARKING GARAGE

PLAN LEVEL 5, BUILDING ELEVATIONS AND SECTION

DATE	BY	JOB NUMBER
12/15/78	[Signature]	OS10
1/16/79	[Signature]	DRAWING NUMBER

SCALE: 1/16" = 1'-0"
DATE: 12/15/78
DIVISION HEAD: [Signature]
A-2

10-23-78 ADDENDUM NO. 2
A-1 CHANGE ALTERNATE NO. 2 TO ALTERNATE NO. 1
CHANGE ALTERNATE NO. 3 TO ALTERNATE NO. 2
CHANGE ALTERNATE NO. 4 TO ALTERNATE NO. 3

T.G.R. A-02.ric

HARDWARE SET SCHEDULE

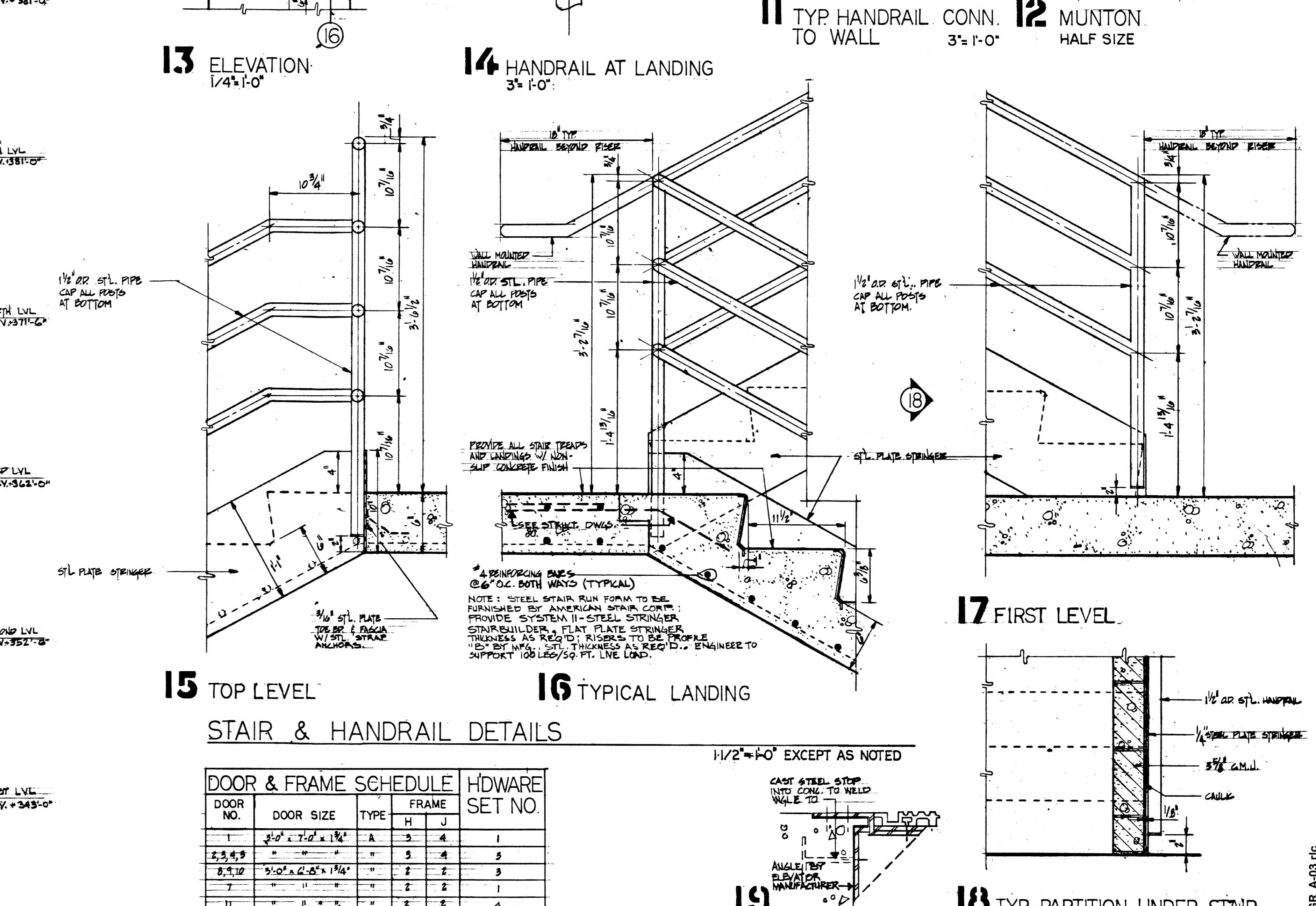
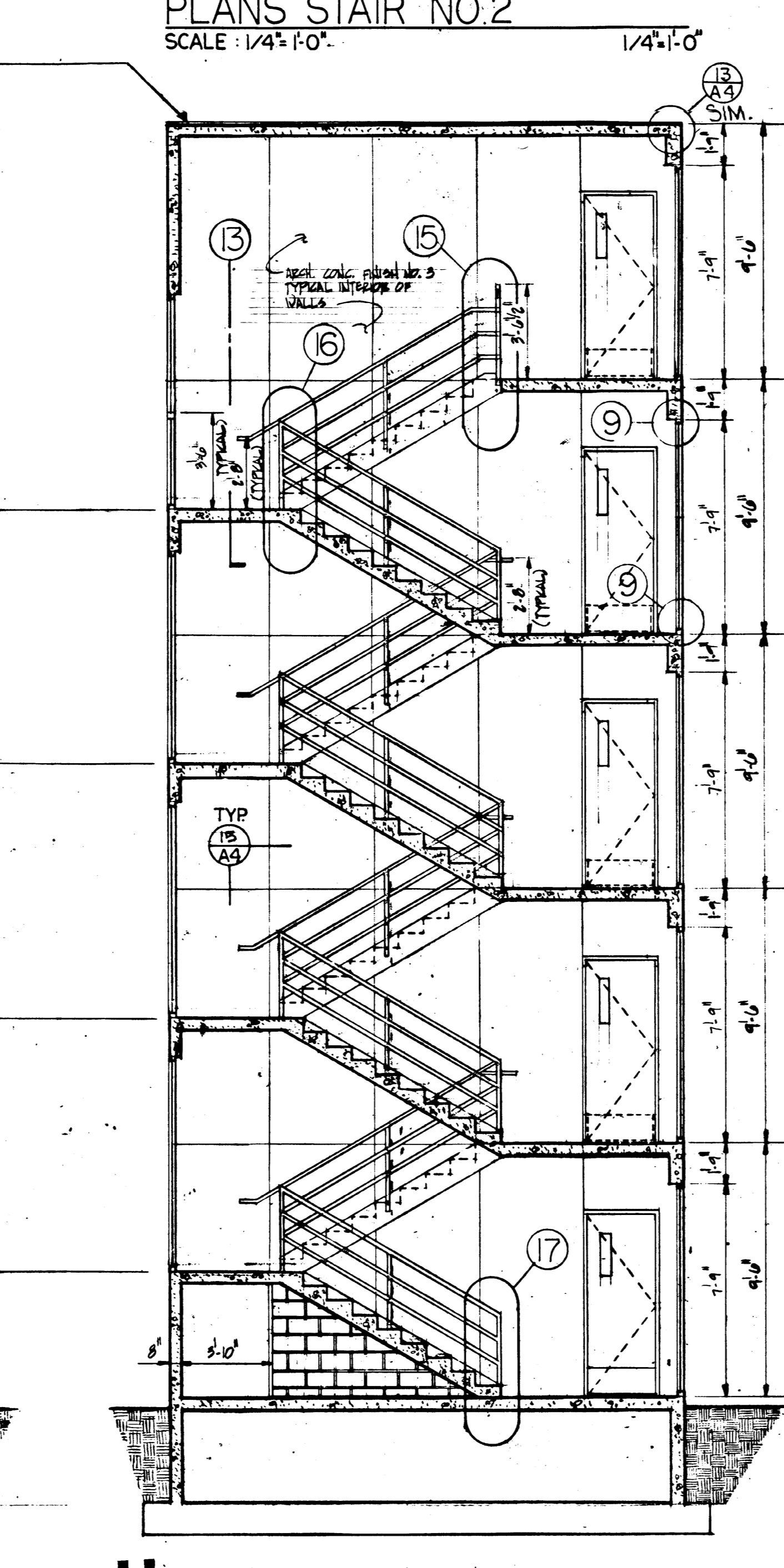
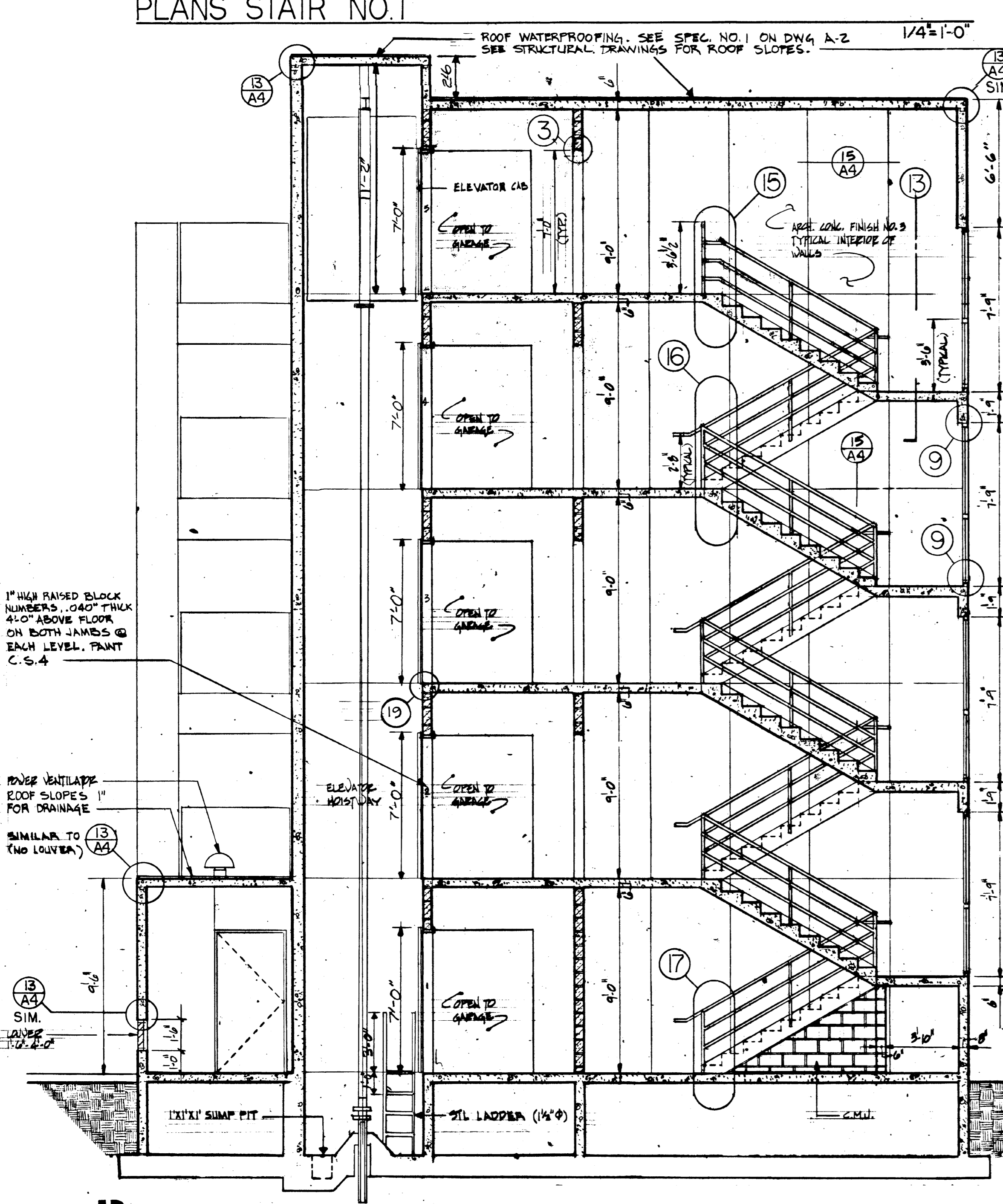
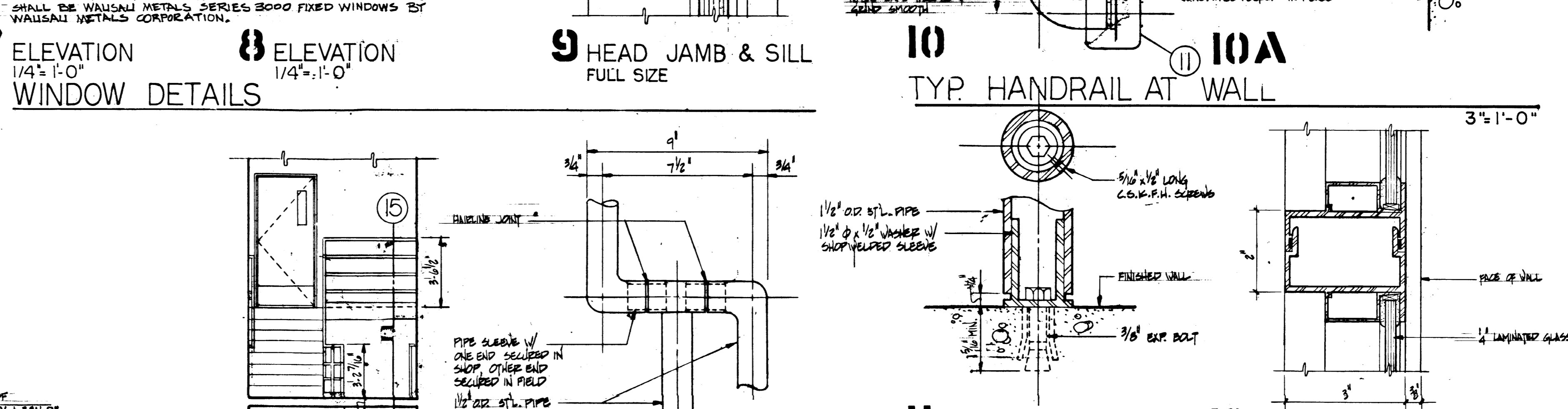
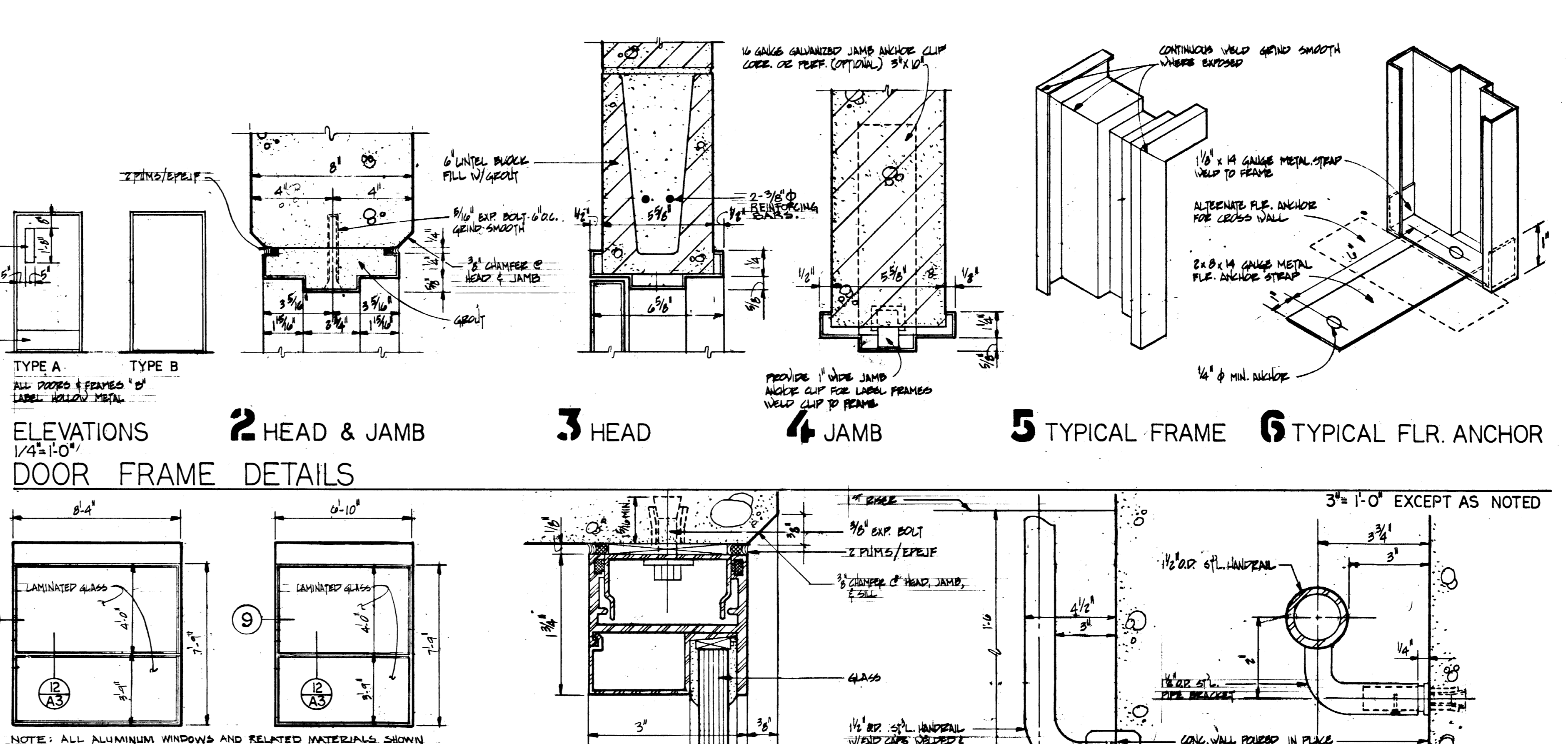
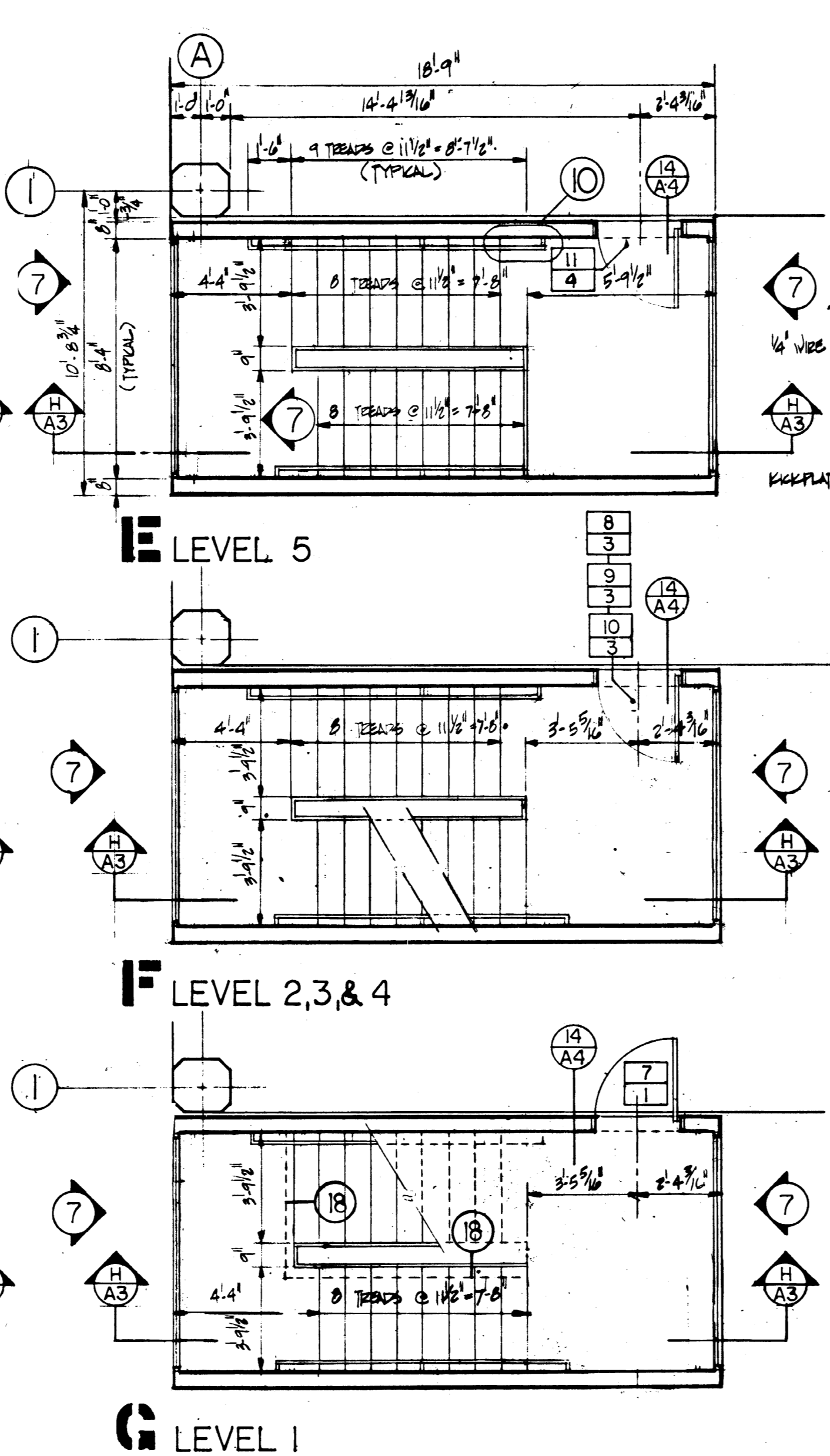
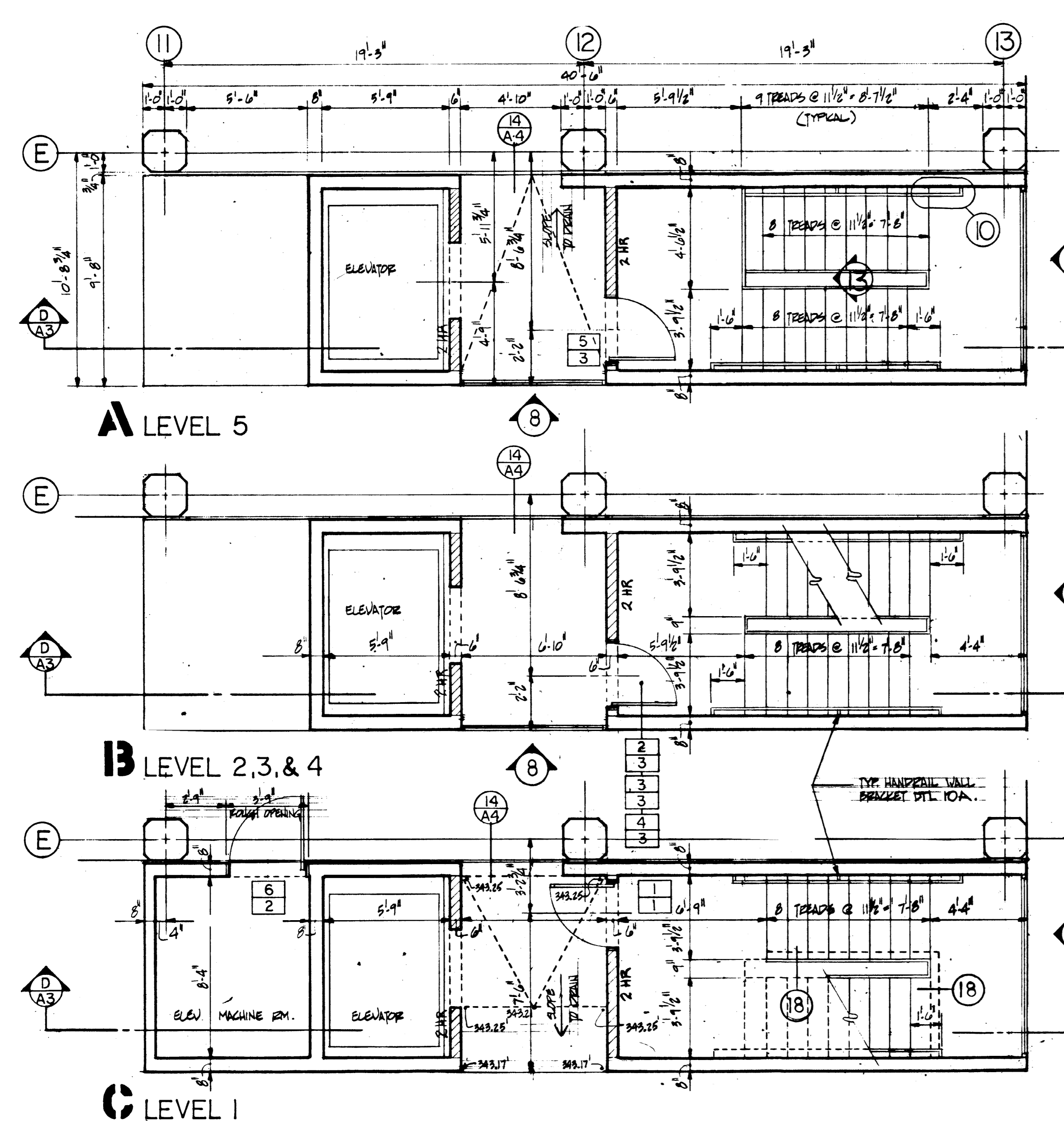
Set No.	Items	QTY	UNIT
1	1 1/2 Butts, BB 5151-A	1	USP
1	1 Closer, EM-150-P	1	AL
1	1 Overhead Stay GJ-120	1	US26D
1	1 Lockset, 8037	1	US26D
1	1 Kickplate	1	US26D
1	1 Sill Strip 373VM	1	US26D
1	1 Threshold 172A	1	AL
2	1 1/2 Butts, BB 4101	1	USP
1	1 Closer, EM-150-P	1	AL
1	1 Overhead Stay GJ-120	1	US26D
1	1 Lockset, 8004	1	US26D
3	1 1/2 sets Butts, BB 5151-A	1	USP
1	1 Closer, EM-150-P	1	AL
1	1 Lockset, 8037	1	US26D
1	1 Kickplate	1	US26D
1	1 Floor Bumper	1	US26D
4	1 1/2 sets Butts, BB 5151-A	1	USP
1	1 Closer, EM-150-P	1	AL
1	1 Lockset, 8037	1	US26D
1	1 Kickplate	1	US26D
1	1 Floor Bumper	1	US26D
1	1 Threshold 172A	1	AL
1	1 Sill Strip 373VM	1	US26D
1	1 Weather Stripping 315 AR	1	US26D
5	3 Butts, BB 4101	1	USP
1	1 Lockset, 8004	1	US26D
1	1 set Automatic flushbolts, manual release	1	US26D

*Automatic Flush Bolts, Manual Release by Von Duprin Inc., 037 x 301 L Striks.

COLOR SCHEDULE

PAINT COLOR IDENTIFICATION AND APPLICATION

- C.S.1 Spectrum Yellow - Pratt & Lambert #3045-2, Flat Finish
Application: Exterior C.M. Walls below ramp on level 1. See drawing A-1 for location.
- C.S.2 Orion (Blue) - Pratt & Lambert #5101 Flat Finish
Application: Exterior C.M.U. walls at bicycle parking.
- C.S.3 Poppy - Pratt & Lambert #6533-4 Gloss Finish
Application: Aluminum window frames, door frames and doors, elevator hoistway doors and frames, all exposed steel in stairway 1 and 2, all handrails, and Louvers.
- C.S.4 Quaker Blue - Pratt & Lambert #5018 Flat Finish
Application: Exterior and Interior C.M.U. walls of the elevator lobbies and stairway 1 and 2 walls.
- C.S.5 Standard White - Pratt & Lambert Flat Finish (Exterior Concrete)
Application: Concrete ceiling bounded by column lines "1", "2", "A" and "B" and column lines "1", "13", "14" and "B". Beams are not to be painted. Elevator lobby and Stairway 1 and 2 ceilings and underside of flights of stairs and landings.
b) Semi Gloss Finish (Exterior Metal)
Guard posts at control equipment.
- C.S.6 Bitter Chocolate - Martin-Senour #M-45-004 Gloss Finish
Application: Electrical Panels and Miscellaneous metals.



DOOR & FRAME SCHEDULE

DOOR NO.	DOOR SIZE	TYPE	H	J	U
1	3'-0" x 7'-0" x 1 1/2"	A	3	4	1
2, 3, 4, 5	"	"	3	4	3
6, 7, 8, 9, 10	5'-0" x 2'-0" x 1 1/2"	"	2	2	3
11	"	"	2	2	1
12	"	"	2	2	4
13	5'-0" x 7'-0" x 1 1/2"	B	2	2	2
14	11'-0" x 2'-0" x 1 1/2"	"	3	4	5

HARDWARE SET NO.

DOOR NO.	FRAME	SET NO.
1	A	1
2, 3, 4, 5	"	3
6, 7, 8, 9, 10	"	2
11	"	2
12	"	4
13	B	2
14	"	5

REVISIONS

MONTGOMERY COLLEGE
REDEVELOPMENT OF TAKOMA PARK CAMPUS
100 W. PARK MARYLAND
PARKING GARAGE

STAIRS AND ELEVATOR PLANS AND DETAILS

DATE	1/28/78	ISSUED FOR BIDDING	KW 2/1/78
DATE	1/28/78	ISSUED FOR OWNER'S REVIEW	KW 1/27/78
NO.	DESCRIPTION	BY	DATE
1	ISSUED FOR BIDDING	KW	2/1/78
2	ISSUED FOR OWNER'S REVIEW	KW	1/27/78

T.G.R.-A-0376

LEGEND

- EXISTING SANITARY LINE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EX. SANITARY MANHOLE
- EX. FIRE HYDRANT/WATER VALVE
- CONTRACT LIMIT LINE
- COLUMN CENTER LINE
- PROPERTY CORNER POINT

GENERAL SEDIMENT CONTROL NOTES

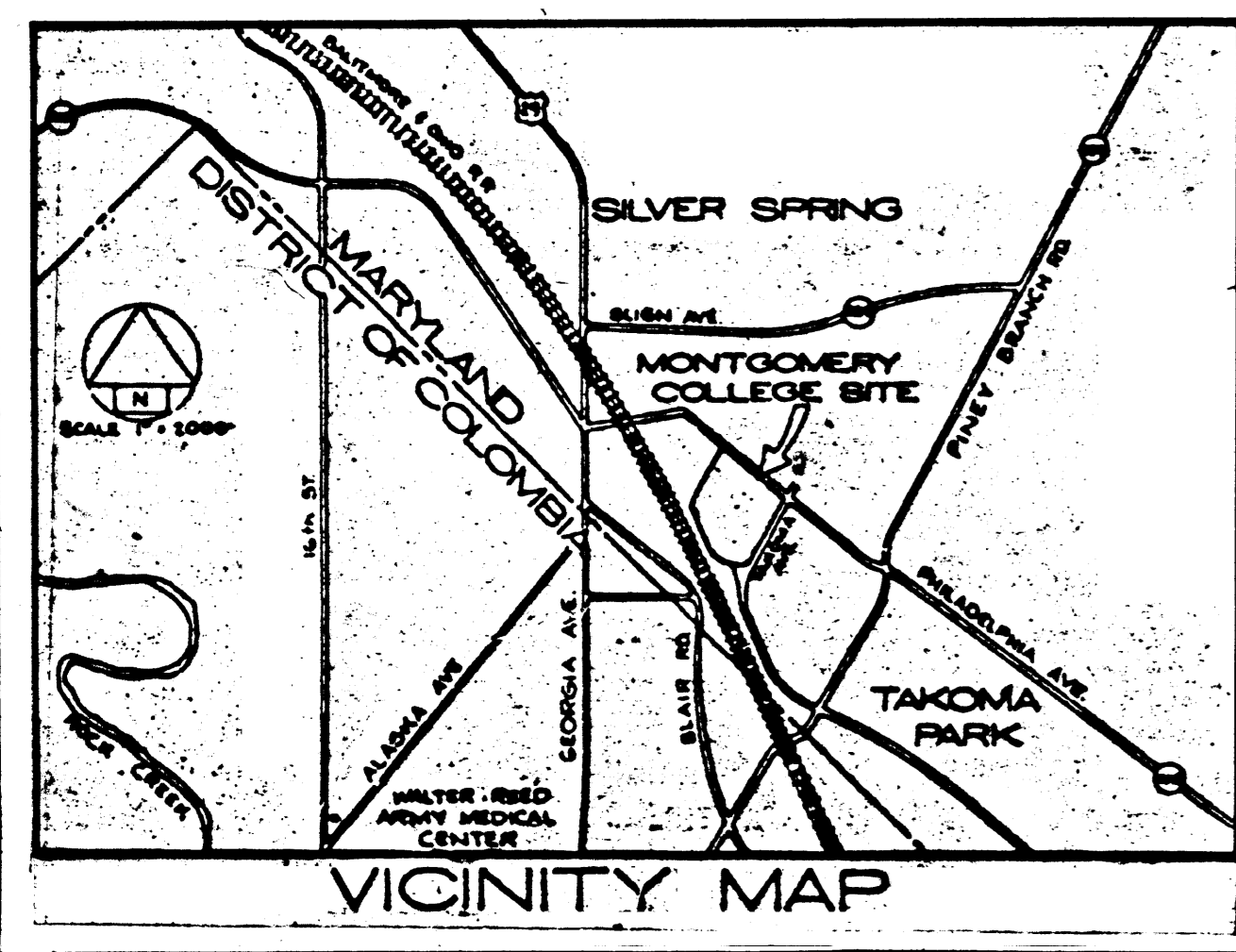
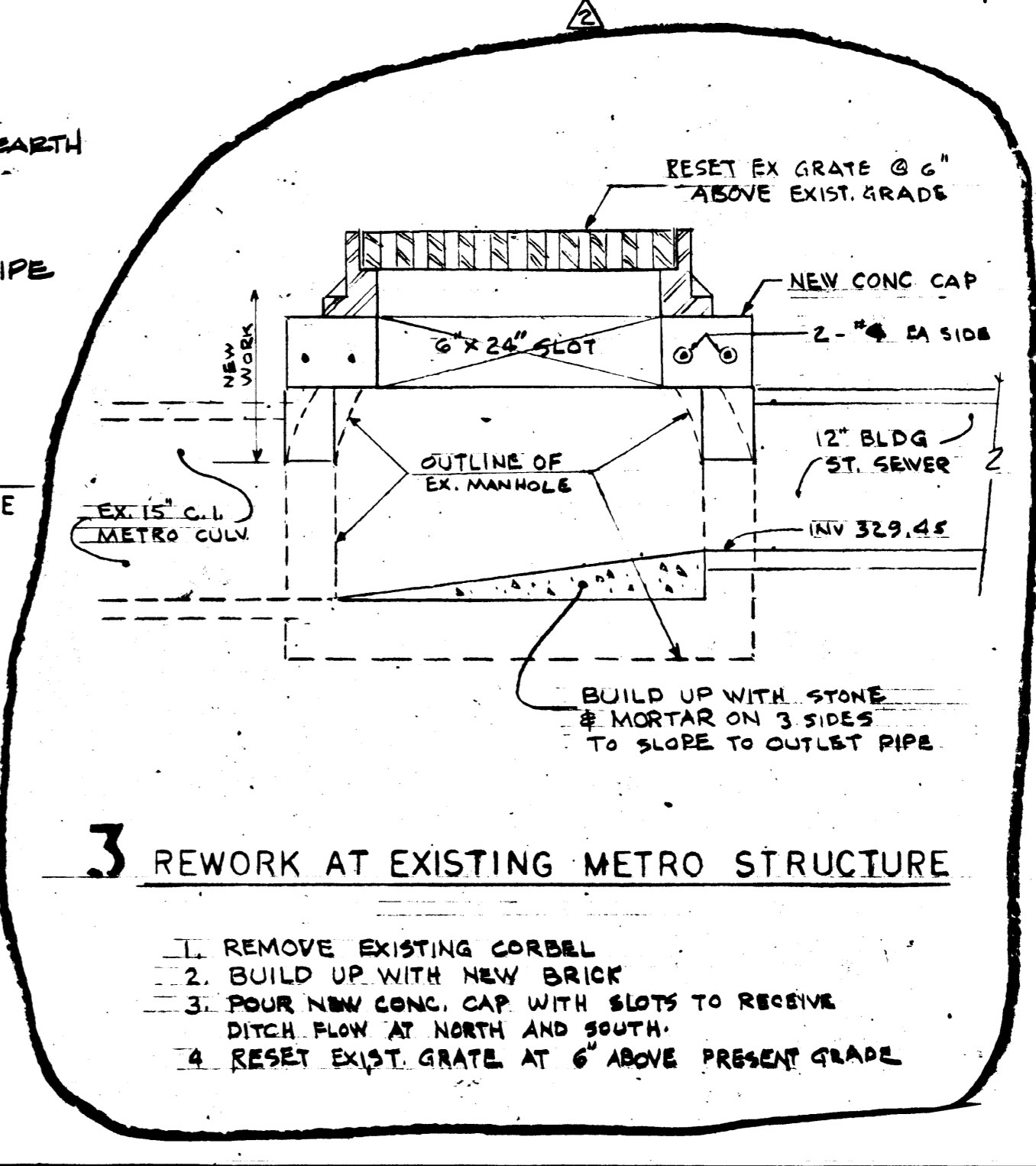
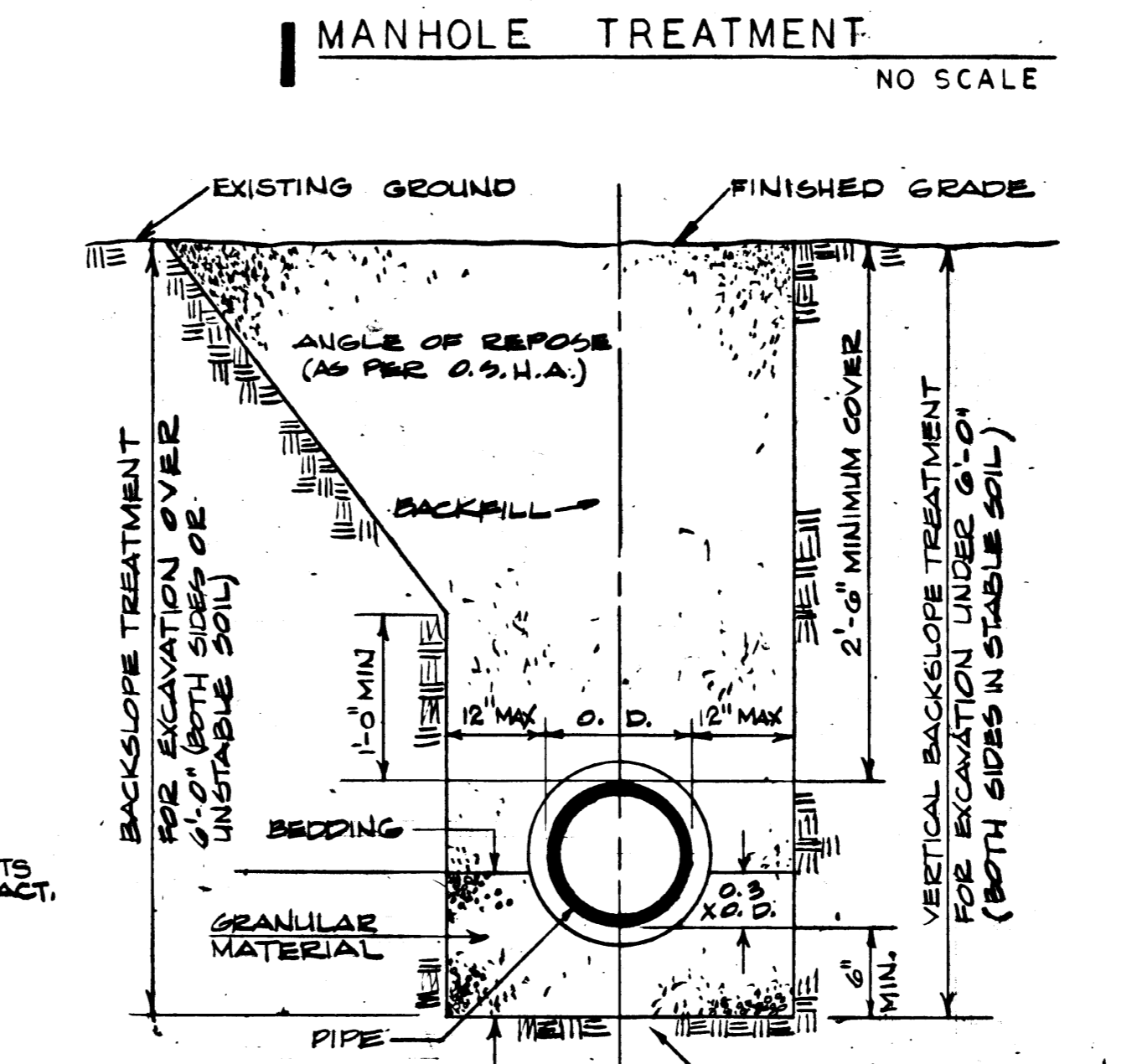
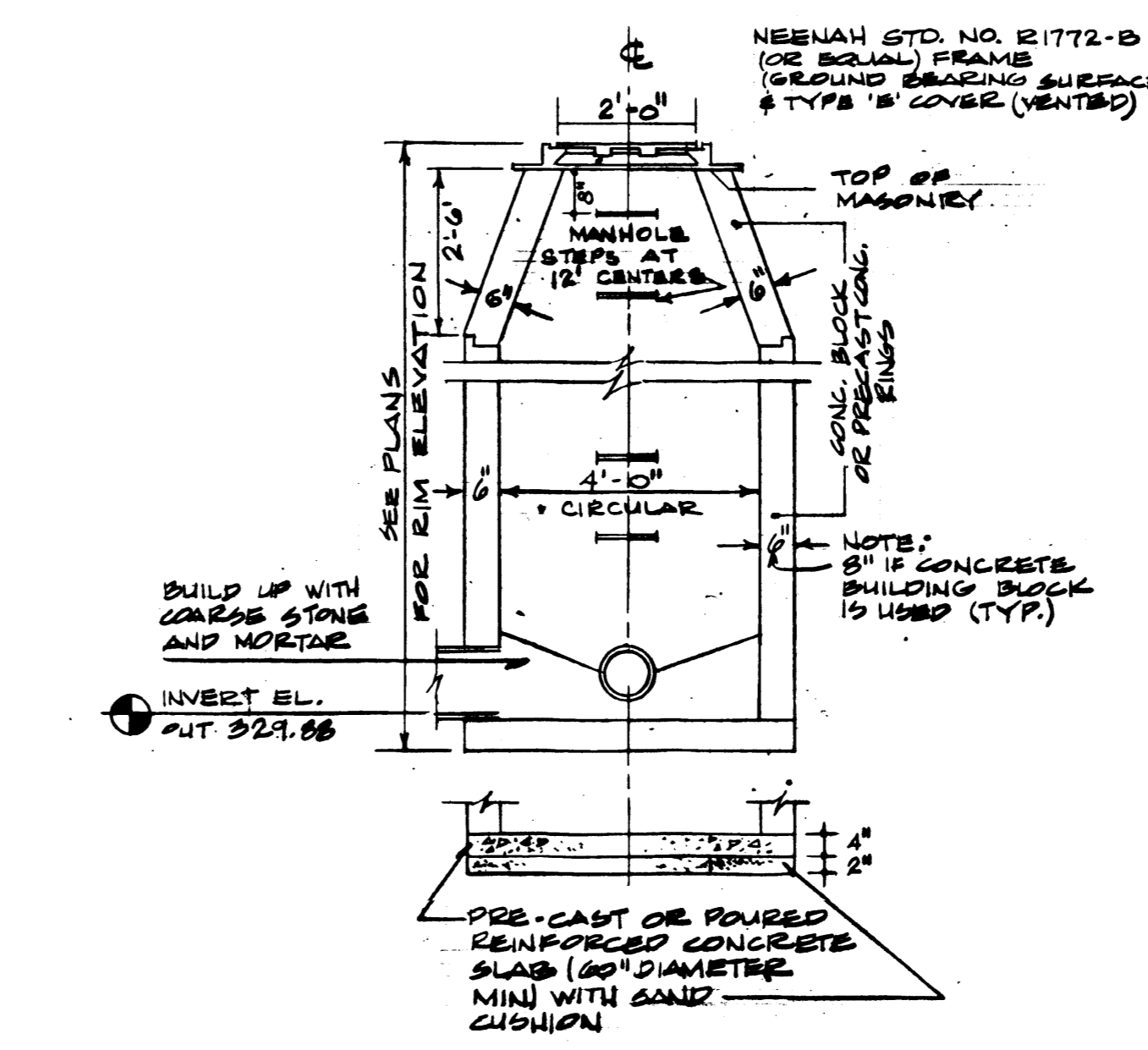
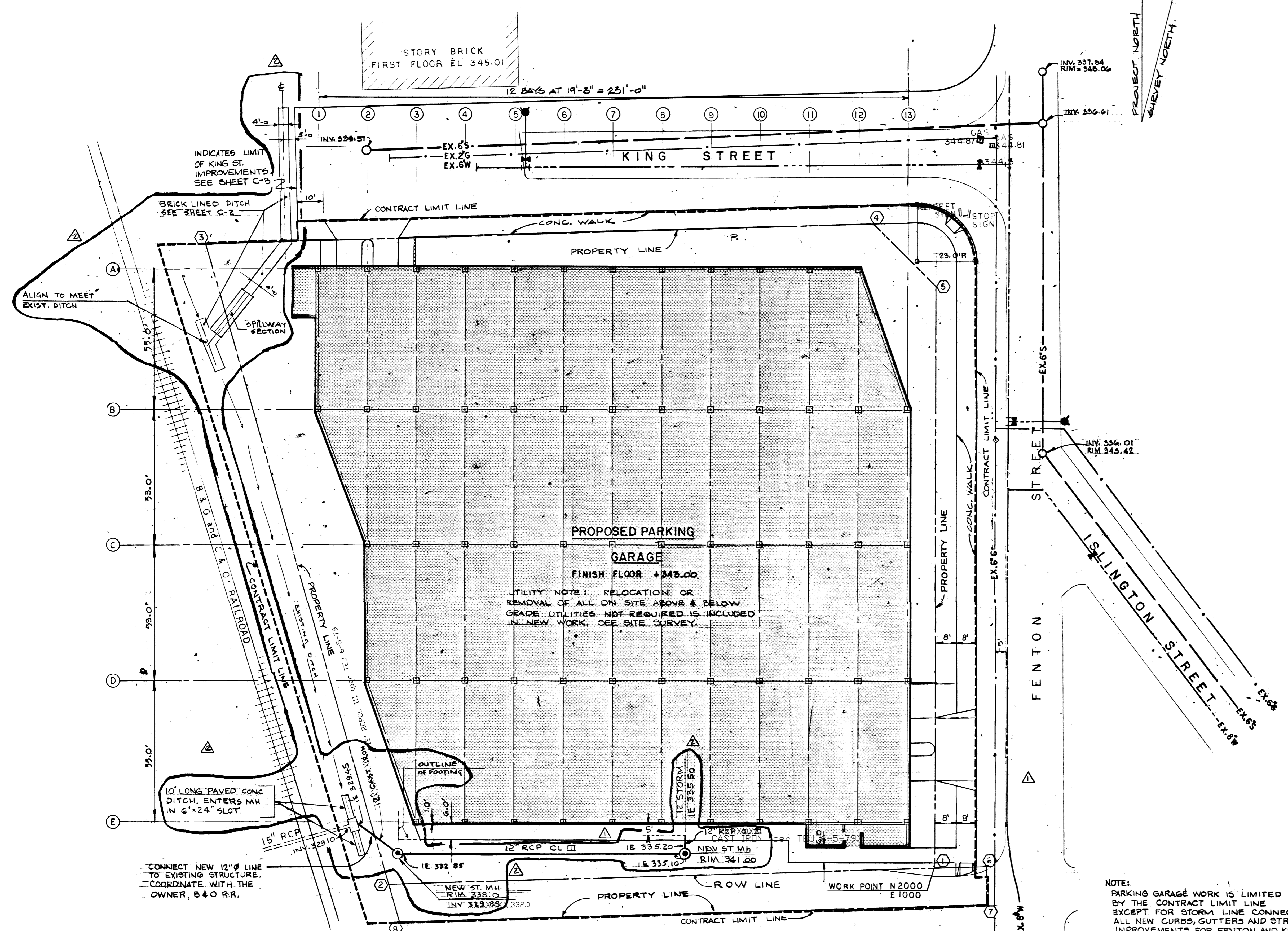
1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE MSCD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN URBANIZING AREAS.
2. STANDARD MSCD NOTES REGARDING SEDIMENT CONTROL, BORROW AND WASTE AREAS ARE COVERED BY THE CONDITIONS CONTAINED IN THE APPLICATION FOR SEDIMENT CONTROL APPROVAL AND/OR PERMIT (DEP/SC-4).
3. ALL SEDIMENT WILL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEM UNDER CONSTRUCTION BY USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED FUNCTIONAL METHOD.
4. CONSTRUCTION ACCESS POINTS TO THE SITE WILL BE PROTECTED IN SUCH MANNER TO PREVENT TRACKING OF MUD AND SOIL ONTO PUBLIC THOROPARES.
5. PRIOR TO GRADING OPERATIONS, OBTAIN APPROVED SEDIMENT CONTROL PLAN FOR OFF SITE WASTE OR BORROW AREAS.
6. BUILDING SITE TO BE PREPARED (STRIPPED) ONLY AS REQUIRED FOR FOUNDATION AND SLAB CONSTRUCTION. BALANCE OF SITE TO BE STRIPPED IMMEDIATELY PRIOR TO SPREADING OF TOPSOIL AND/OR CONSTRUCTION OF SIDEWALKS AND PAVEMENTS.
7. UPON COMPLETION OF FOUNDATIONS, WALLS AND UNDERGROUND UTILITIES, DISTURBED AREAS (OUTSIDE BUILDING) SHALL BE MULCHED IN ACCORDANCE WITH PP 1.200 AND 3.201 OF THE STANDARD SPECIFICATIONS.
8. JUST PRIOR TO FINAL SEEDING AND SODDING REMOVE ALL MULCH (7 ABOVE) FROM UNPAVED AREAS AND FINE GRADE TO RECEIVE TOPSOIL, SEED AND/OR SOD IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
9. INSTALL PORTABLE FENCE AROUND PERIMETER OF SEDIMENT TRAP(S). THE FENCE SHALL BE FORTY-TWO (42) INCHES IN HEIGHT WITH OPENINGS NOT GREATER THAN THREE (3) INCHES IN WIDTH AND SHALL BE FIRMLY ANCHORED AT A SPACING NO GREATER THAN EIGHT (8) FEET AND CONSTRUCTED IN A MANNER TO PREVENT SAGGING. CLEAN SEDIMENT TRAP THOROUGHLY WHEN SILT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH.
10. ALL SEDIMENT CONTROL MEASURES TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE.

PROPERTY CORNER LOCATIONS

POINTS	COORDINATES		BEARINGS
	NORTH	EAST	
①	2000.0000	1000.0000	S88°11'00"W
②	1993.2093	785.9014	N16°7'25"W
③	2243.6325	713.5086	N88°20'56"E
④	2251.8253	975.0149	S45°53'20"E
⑤	2227.6036	1000.0000	00°00'00"
①	2000.0000	1000.0000	S88°11'00"W
②	1993.2093	785.9014	S15°32'54"E
⑥	1978.3324	790.0363	N88°11'00"E
⑦	1985.6263	1020.0000	00°00'00"
⑧	2000.6343	1020.0000	00°00'00"

COLUMN LOCATION

COLUMN	COORDINATES	
	NORTH	EAST
A 1	2233.5842	757.8750
A 2	2233.5842	777.1250
A 3	2233.5842	796.3750
A 4	2233.5842	815.6250
A 5	2233.5842	834.8750
A 6	2233.5842	854.1250
A 7	2233.5842	873.3750
A 8	2233.5842	892.6250
A 9	2233.5842	911.8750
A 10	2233.5842	931.1250
A 11	2233.5842	950.3750
A 12	2233.5842	969.6250
B 1	2178.5842	757.8750
B 2	2178.5842	777.1250
B 3	2178.5842	796.3750
B 4	2178.5842	815.6250
B 5	2178.5842	834.8750
B 6	2178.5842	854.1250
B 7	2178.5842	873.3750
B 8	2178.5842	892.6250
B 9	2178.5842	911.8750
B 10	2178.5842	931.1250
B 11	2178.5842	950.3750
B 12	2178.5842	969.6250
C 2	2125.5842	777.1250
C 3	2125.5842	796.3750
C 4	2125.5842	815.6250
C 5	2125.5842	834.8750
C 6	2125.5842	854.1250
C 7	2125.5842	873.3750
C 8	2125.5842	892.6250
C 9	2125.5842	911.8750
C 10	2125.5842	931.1250
C 11	2125.5842	950.3750
C 12	2125.5842	969.6250
C 13	2125.5842	988.8750
D 2	2072.5842	777.1250
D 3	2072.5842	796.3750
D 4	2072.5842	815.6250
D 5	2072.5842	834.8750
D 6	2072.5842	854.1250
D 7	2072.5842	873.3750
D 8	2072.5842	892.6250
D 9	2072.5842	911.8750
D 10	2072.5842	931.1250
D 11	2072.5842	950.3750
D 12	2072.5842	969.6250
D 13	2072.5842	988.8750
E 3	2017.5842	796.3750
E 4	2017.5842	815.6250
E 5	2017.5842	834.8750
E 6	2017.5842	854.1250
E 7	2017.5842	873.3750
E 8	2017.5842	892.6250
E 9	2017.5842	911.8750
E 10	2017.5842	931.1250
E 11	2017.5842	950.3750
E 12	2017.5842	969.6250
E 13	2017.5842	988.8750



CERTIFICATIONS

Owner's Certification:

"I, _____, hereby certify that all clearing, grading, construction and/or development will be done pursuant to this plan."

Date: _____

Owner's Signature: _____

Design Certification:

"I hereby certify that this plan has been prepared in accordance with the 'Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas', MSCD 'On-Site Storm Water Management Policy' and the 'Storm Water Management Criteria' dated January 9, 1976, and Montgomery County Department of Transportation 'Interim Storm Drain Design Criteria' dated July 1, 1968."

Date: FEB 2, 1979

Signature: D. Stanton Kovacs

(P.E. or R.L.S.)

Registration No. 11096 PE

Maintenance Certification on Private Lands:

"I hereby certify that I assume maintenance responsibilities for all storm water management structures shown hereon. If maintenance responsibility is legally transferred, I agree to supply the MSCD with a copy of the document (signed by both parties) transferring said maintenance responsibility."

Date: _____

Owner's Signature: _____

NO.	DESCRIPTION	BY	DATE
1	ISSUED FOR BIDDING	KW	04-78
2	ISSUED FOR OWNERS REVIEW	KW	04-78
1	ISSUED	BY	DATE

REVISIONS

NO.	DESCRIPTION	BY	DATE
1	REVISED SITE CORNER LOCATION - ADDED PAVED DISTANCE TO EXISTING EXISTING STRUCTURE	KW	01-78
2	FENTON STREET REVISION	KW	02-78

MONTGOMERY COLLEGE

REDEVELOPMENT OF TAKOMA PARK CAMPUS

TAKOMA PARK MARYLAND

PARKING GARAGE

SITE AND UTILITY PLAN

DRAWN: [Signature]

CHECKED: [Signature]

DATE: 1/20

1/20

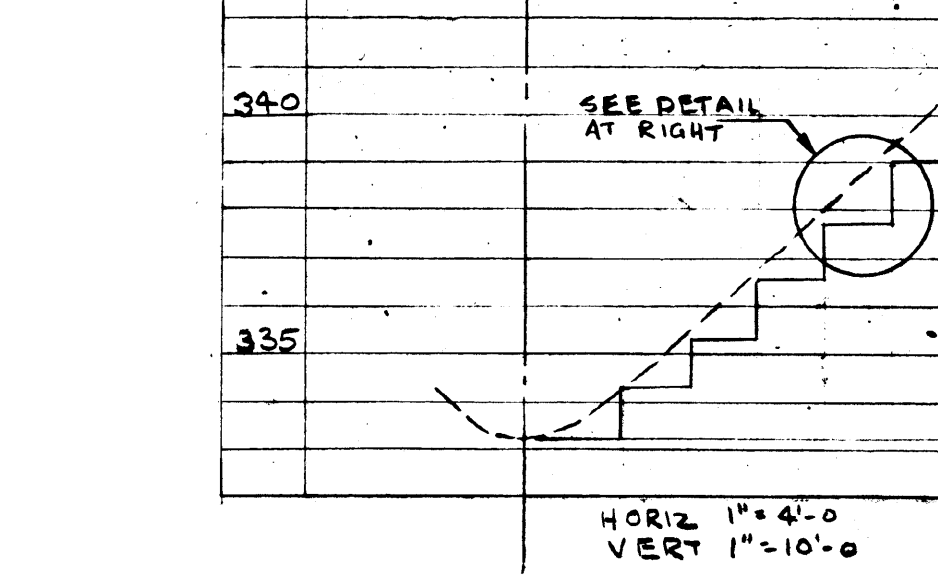
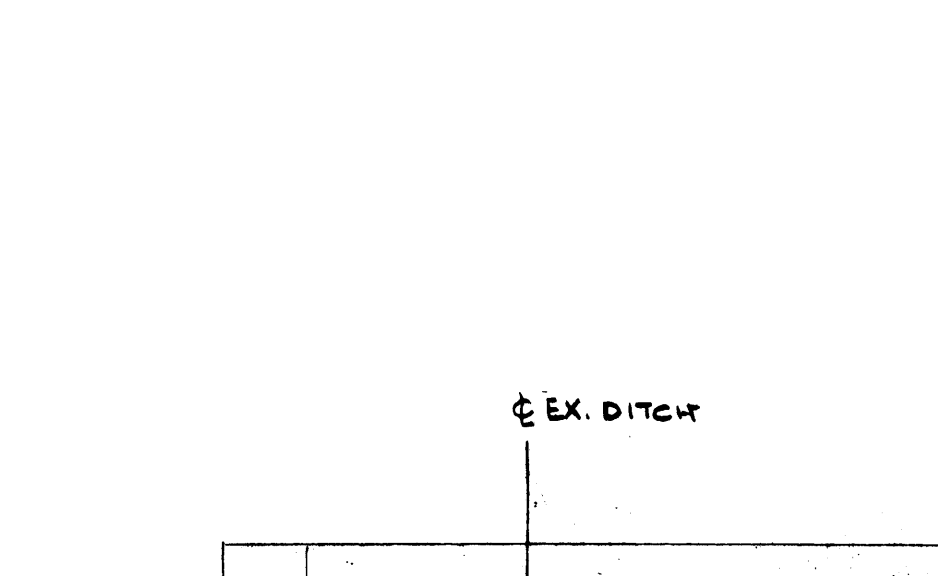
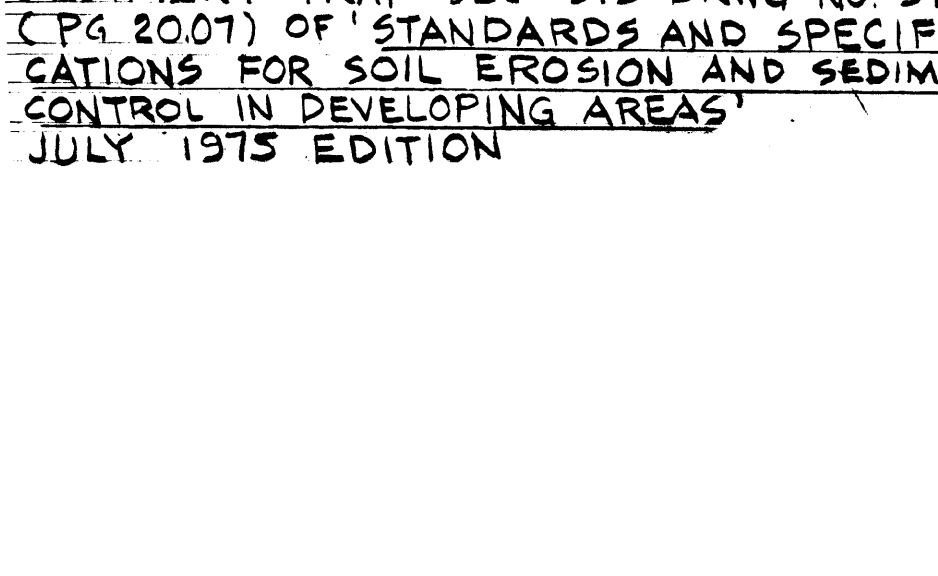
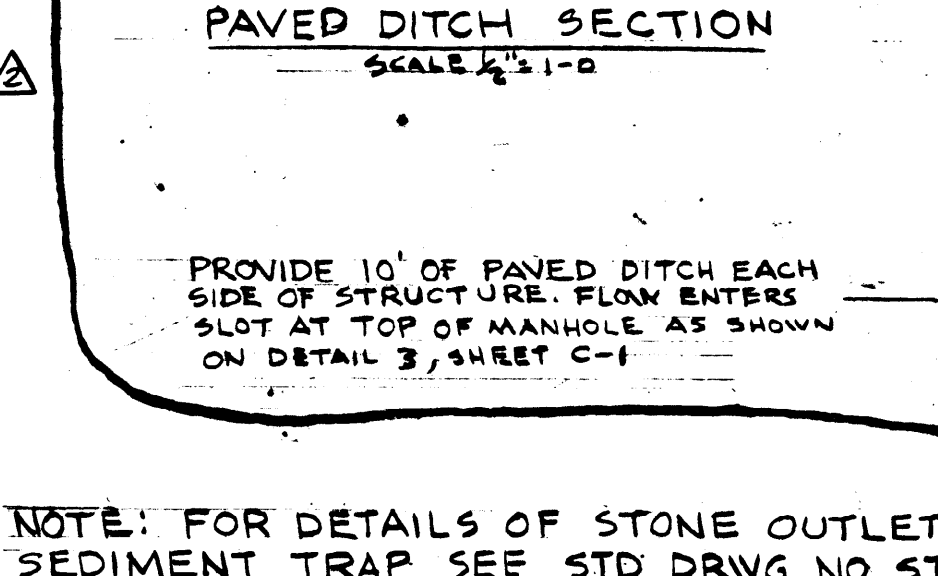
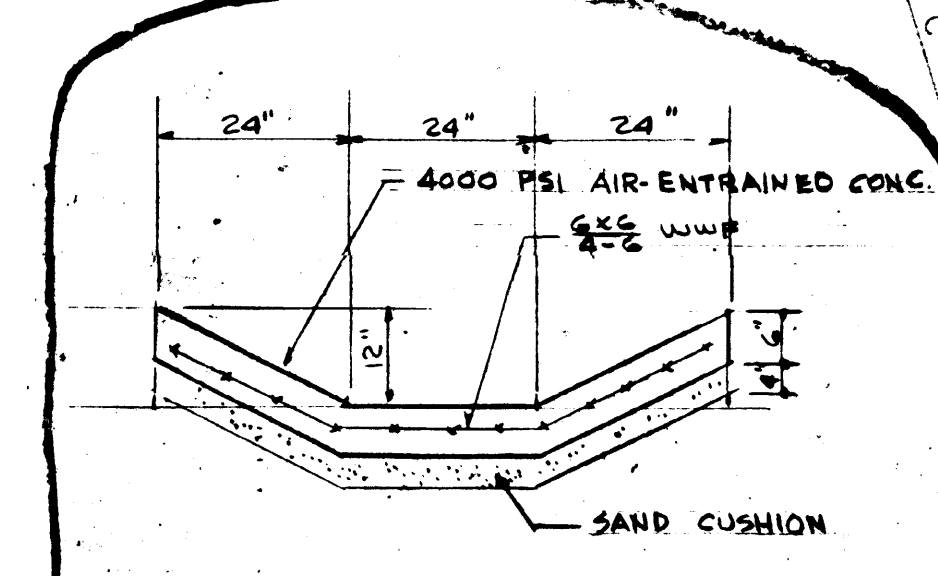
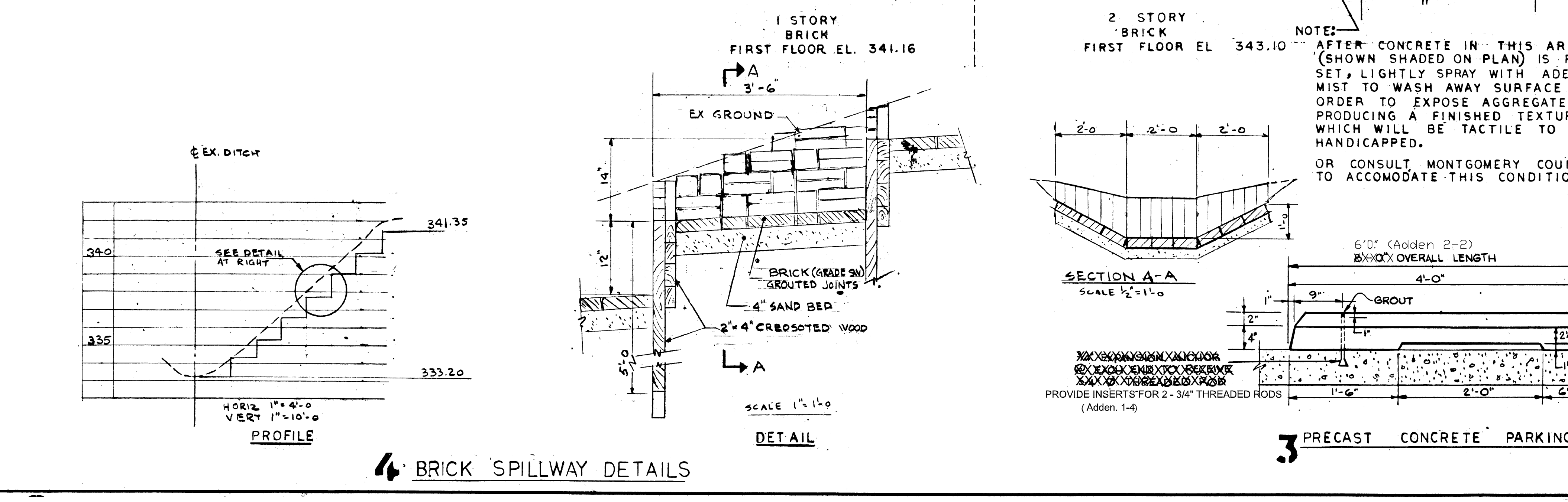
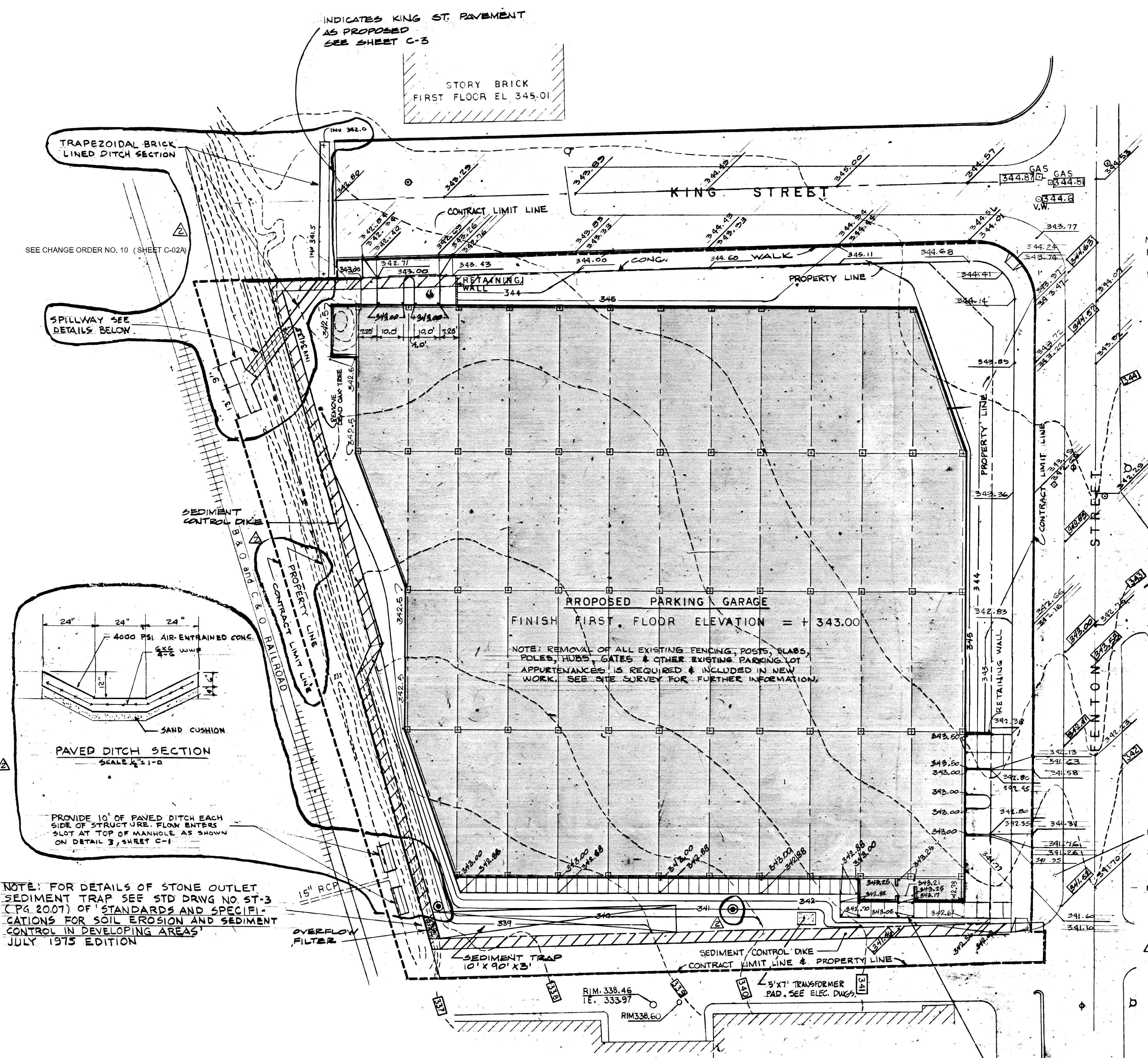
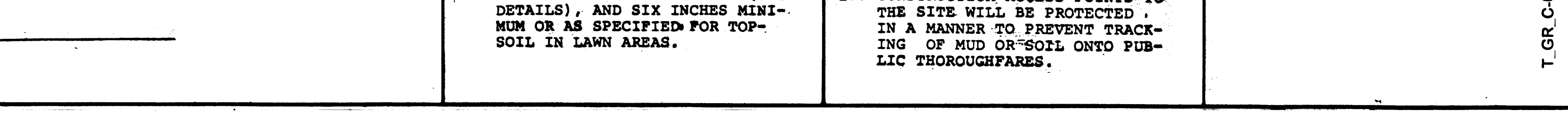
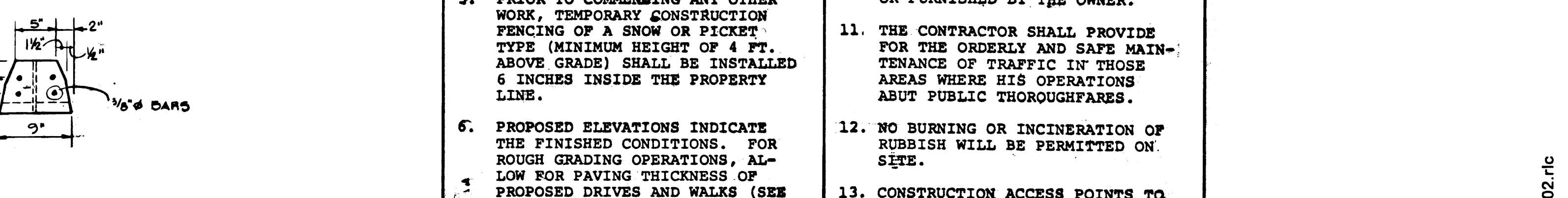
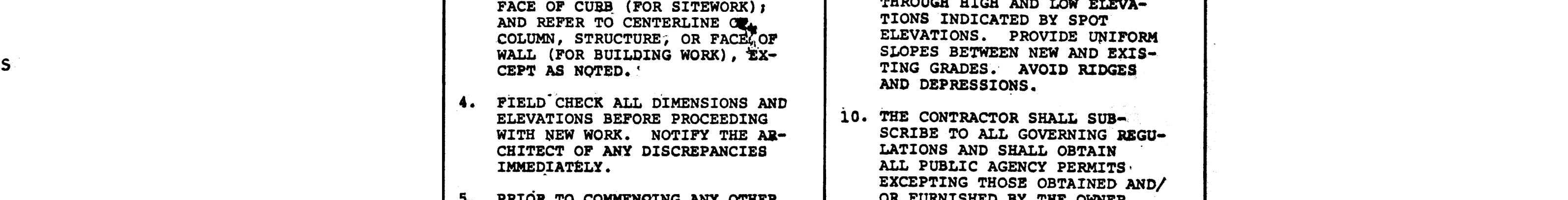
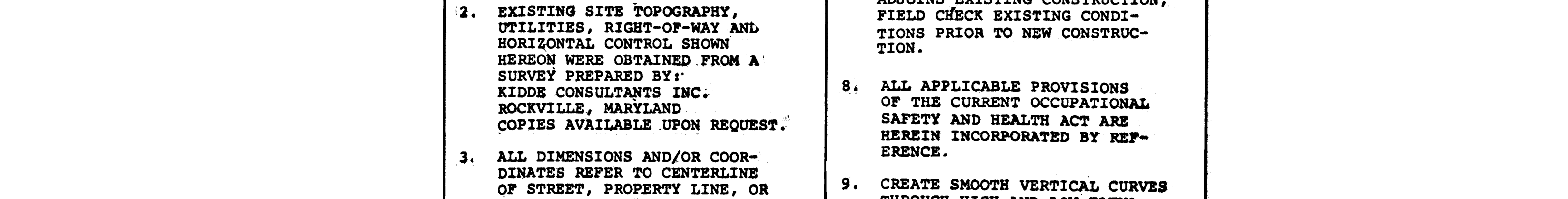
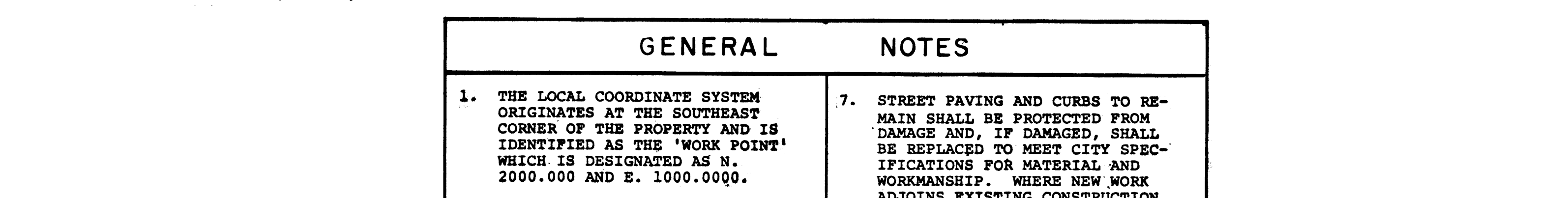
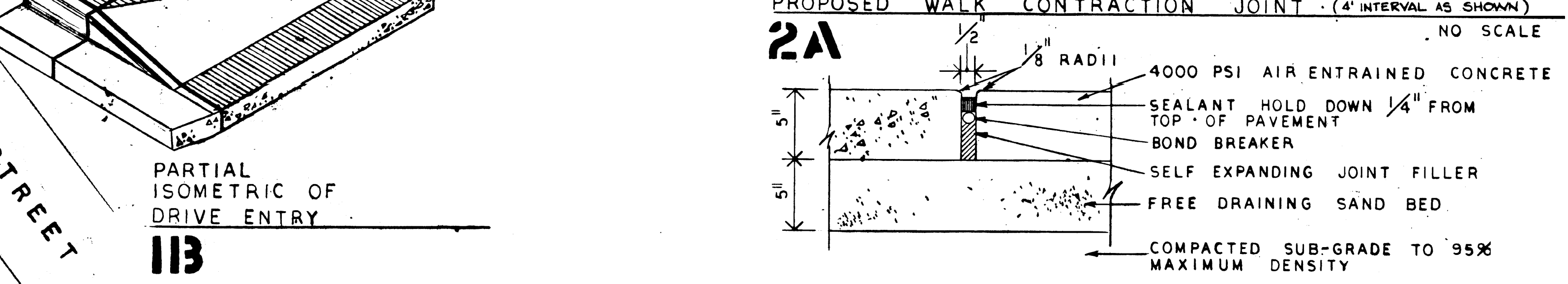
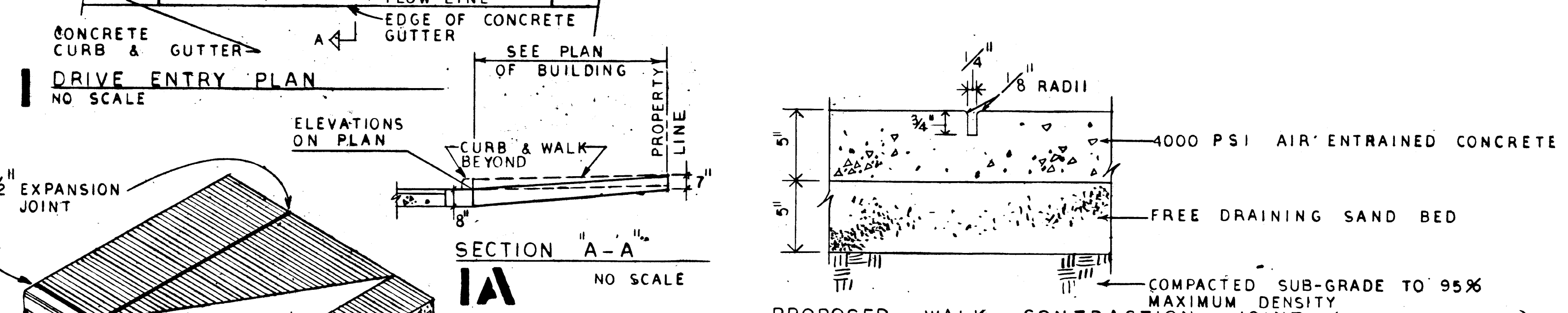
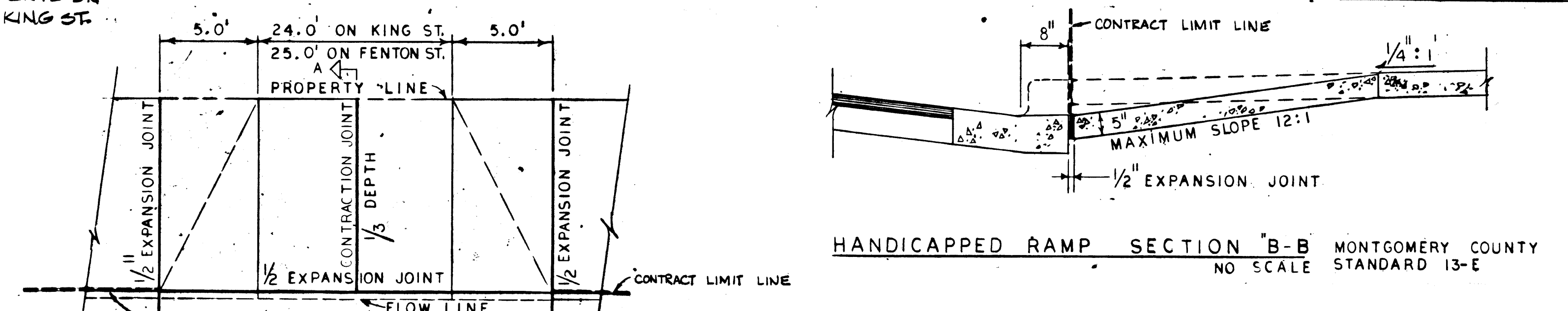
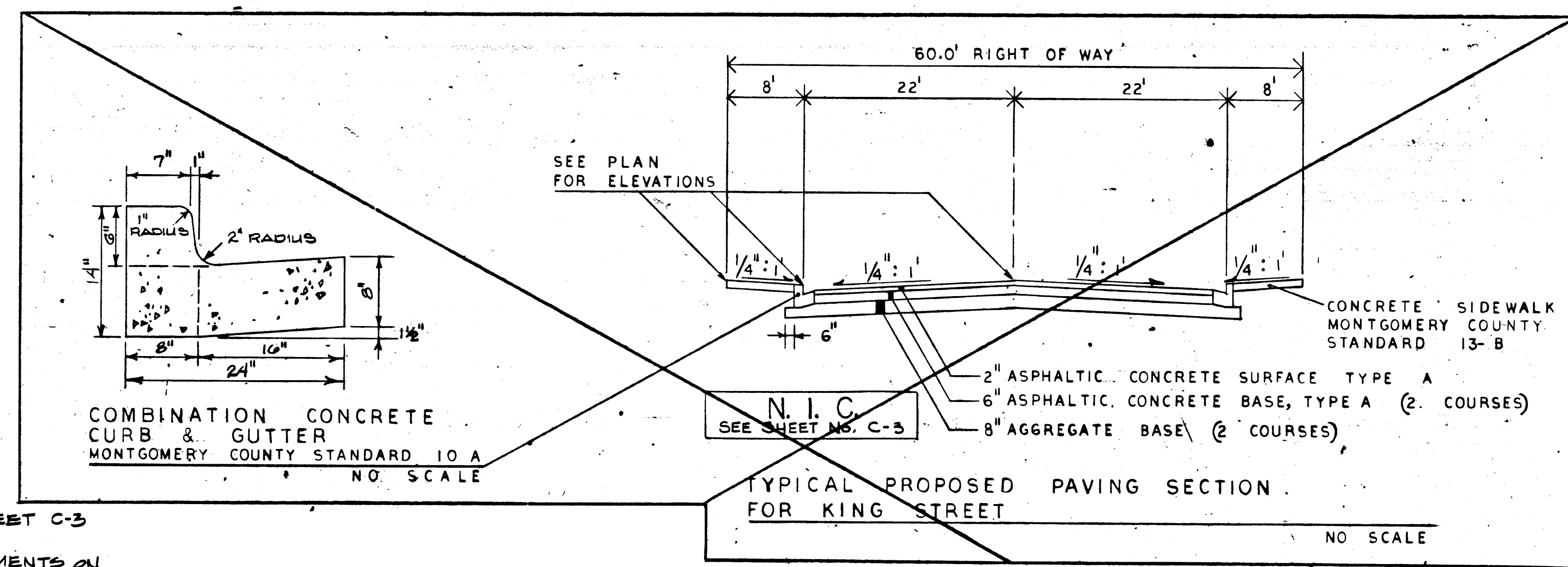
15/PT. 78

JOB NUMBER: 6910

DRAWING NUMBER: C-1

LEGEND

	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	PROPOSED CURB AND GUTTER ELEVATION
	PROPOSED CONTOUR
	CONTRACT LIMIT LINE



NOTE: SEE SHEET C-3 FOR IMPROVEMENTS ON FENTON ST. & KING ST.

INDICATES FENTON ST. PAVEMENT AS PROPOSED - SEE SHEET C-3

NOTE: PARKING GARAGE WORK IS LIMITED BY THE CONTRACT LIMIT LINE EXCEPT FOR BLENDING OF SLOPES. SEE SHEET C-3 FOR STREET IMPROVEMENTS.

NOTE: AFTER CONCRETE IN THIS AREA (SHOWN SHADED ON PLAN) IS PARTIALLY SET, LIGHTLY SPRAY WITH ADEQUATE WATER MIST TO WASH AWAY SURFACE CEMENT IN ORDER TO EXPOSE AGGREGATE, THEREBY PRODUCING A FINISHED TEXTURED SURFACE WHICH WILL BE TACTILE TO THE VISUALLY HANDICAPPED. OR CONSULT MONTGOMERY COUNTY STANDARDS TO ACCOMMODATE THIS CONDITION.

NOTE: PROVIDE INSERTS FOR 2 - 3/4\"/>

GENERAL	NOTES
1. THE LOCAL COORDINATE SYSTEM ORIGINATES AT THE SOUTHEAST CORNER OF THE PROPERTY AND IS IDENTIFIED AS THE 'WORK POINT' WHICH IS DESIGNATED AS N. 2000.000 AND E. 1000.000.	7. STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND, IF DAMAGED, SHALL BE REPLACED TO MEET CITY SPECIFICATIONS FOR MATERIAL AND WORKMANSHIP. WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, FIELD CHECK EXISTING CONDITIONS PRIOR TO NEW CONSTRUCTION.
2. EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN HEREOF WERE OBTAINED FROM A SURVEY PREPARED BY KIDDE CONSULTANTS INC. ROCKVILLE, MARYLAND COPIES AVAILABLE UPON REQUEST.	8. ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREBY INCORPORATED BY REFERENCE.
3. ALL DIMENSIONS AND/OR COORDINATES REFER TO CENTERLINE OF STREET, PROPERTY LINE, OR FACE OF CURB (FOR SITEWORK) AND REFER TO CENTERLINE OF COLUMN, STRUCTURE, OR FACE OF WALL (FOR BUILDING WORK), EXCEPT AS NOTED.	9. CREATE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW ELEVATIONS INDICATED BY SPOT ELEVATIONS. PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS.
4. FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH NEW WORK NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY.	10. THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL PUBLIC AGENCY PERMITS EXCEPTING THOSE OBTAINED AND/OR FURNISHED BY THE OWNER.
5. PRIOR TO COMMENCING ANY OTHER WORK, TEMPORARY CONSTRUCTION FENCING OF A SNOW OR PICKET TYPE (MINIMUM HEIGHT OF 4 FT. ABOVE GRADE) SHALL BE INSTALLED 6 INCHES INSIDE THE PROPERTY LINE.	11. THE CONTRACTOR SHALL PROVIDE FOR THE ORDERLY AND SAFE MAINTENANCE OF TRAFFIC IN THOSE AREAS WHERE HIS OPERATIONS ABUT PUBLIC THOROUGHFARES.
6. PROPOSED ELEVATIONS INDICATE THE FINISHED CONDITIONS. FOR ROUGH GRADING OPERATIONS, ALLOW FOR PAVING THICKNESS OF PROPOSED DRIVES AND WALKS (SEE DETAILS), AND SIX INCHES MINIMUM OR AS SPECIFIED FOR TOPSOIL IN LAWN AREAS.	12. NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.
	13. CONSTRUCTION ACCESS POINTS TO THE SITE WILL BE PROTECTED IN A MANNER TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES.

NO.	DESCRIPTION	BY	DATE
1	ADDED PAVED DITCHES AND SPILLWAY	KW	1-21-73
2	FENTON STREET REVISIONS	KW	2-14-73
3	ISSUED FOR BIDDING	KW	3-27-73
4	ISSUED FOR OWNER REVIEW	KW	4-9-73

REVISIONS

MONTGOMERY COLLEGE
REDEVELOPMENT OF TAKOMA PARK CAMPUS

TAKOMA PARK MARYLAND

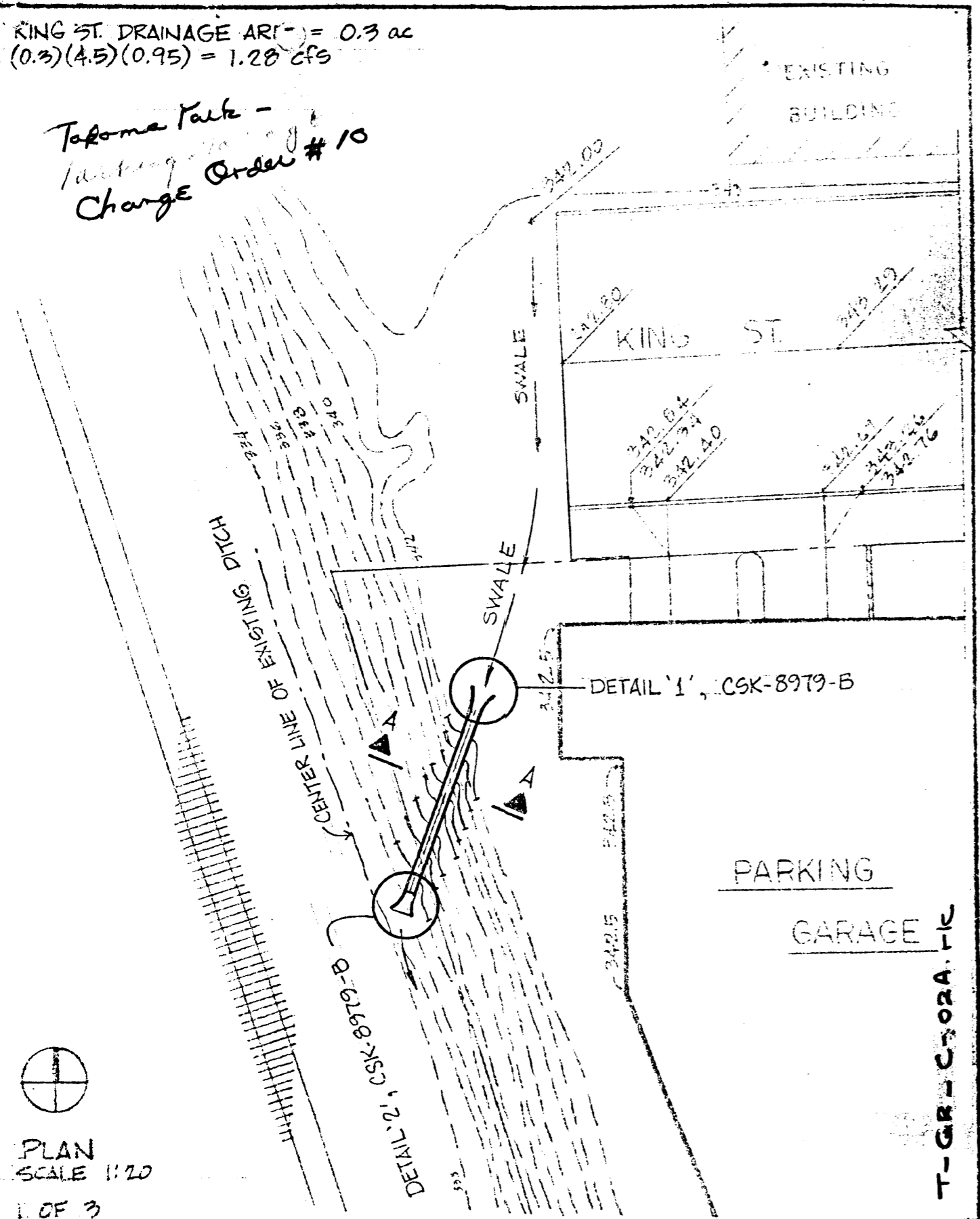
PARKING GARAGE

GRADING AND PAVING PLAN

SCALE: 1\"/>

KING ST. DRAINAGE AREA = 0.3 ac
 $(0.3)(4.5)(0.95) = 1.28 \text{ cfs}$

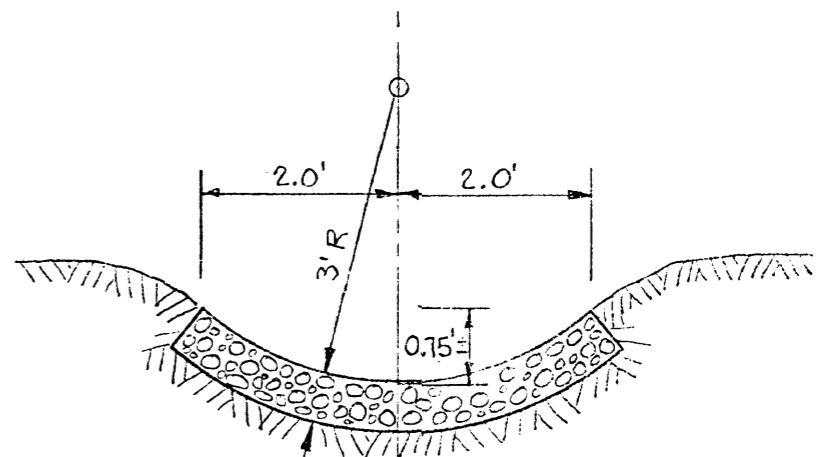
Takoma Park -
 Parking
 Change Order # 10



PLAN
 SCALE 1"=20'
 1 OF 3

T-GR-C-ORA-116

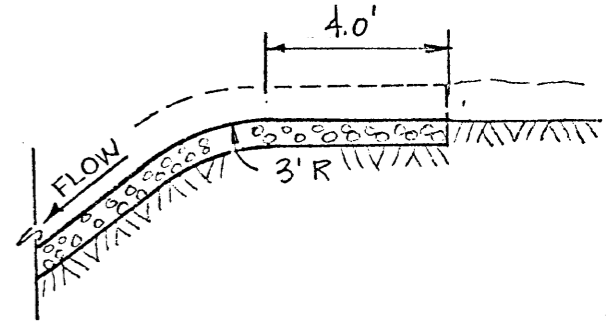
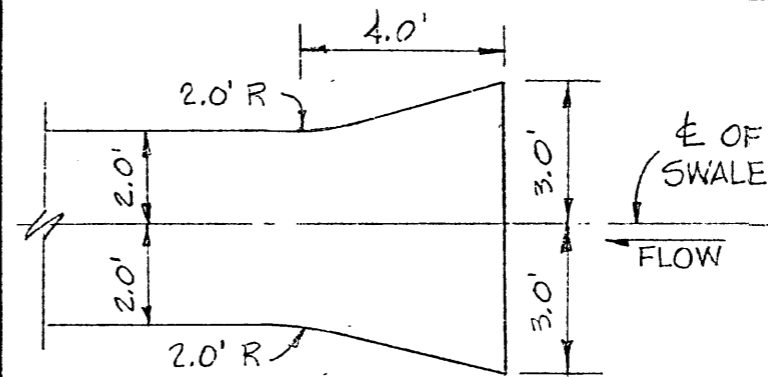
SKIDMORE, OWINGS & MERRILL		MONTGOMERY COLLEGE	
ARCHITECTS		ENGINEERS	
NEW YORK CHICAGO SAN FRANCISCO PORTLAND		PARKING GARAGE ALTERNATE KING ST. DRAINAGE	
DRAWN: G. Smith	CHECKED: WSW	APPROVED:	DATE: 9 AUG. '79
			JOB NO.: 6910-100
			DWG NO.: CSK-8979-A



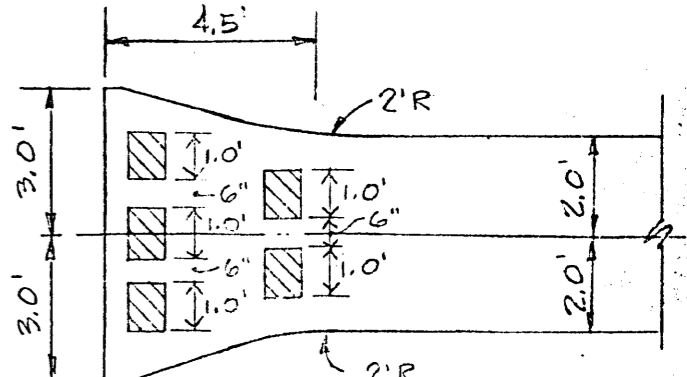
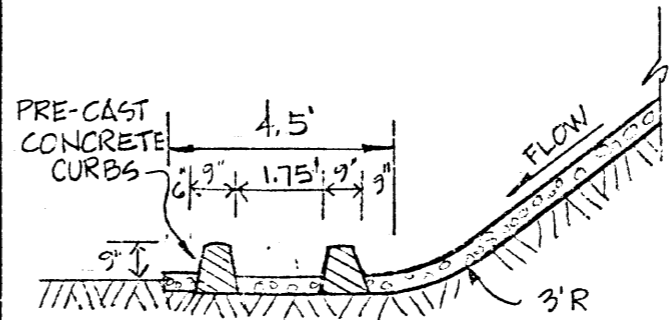
6" OF MACADAM BASE COURSE
 MATERIAL AS PER ARTICLE
 32.06 OF THE MARYLAND
 SPECIFICATIONS FOR MATERIALS,
 HIGHWAYS, BRIDGES & INCIDENTAL
 STRUCTURES.

SECTION A-A

T-GR-C-ORA-116



DETAIL 1

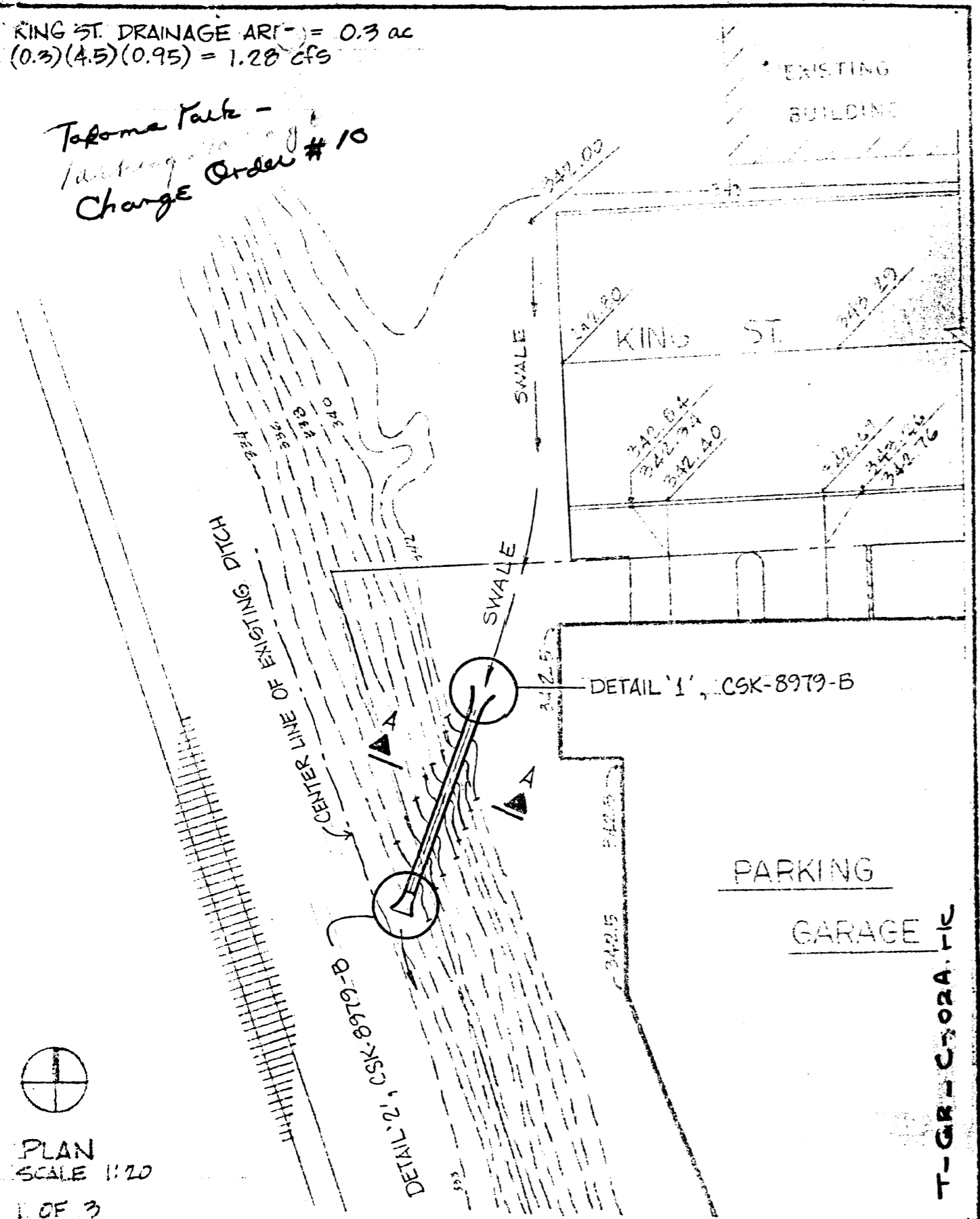


DETAIL 2

SKIDMORE, OWINGS & MERRILL		MONTGOMERY COLLEGE	
ARCHITECTS		ENGINEERS	
NEW YORK CHICAGO SAN FRANCISCO PORTLAND		PARKING GARAGE ALTERNATE KING ST. DRAINAGE	
DRAWN: G. Smith	CHECKED:	APPROVED:	DATE: 9 AUG. '79
			JOB NO.: 6910-100
			DWG NO.: CSK-8979-B

KING ST. DRAINAGE AREA = 0.3 ac
 $(0.3)(4.5)(0.95) = 1.28 \text{ cfs}$

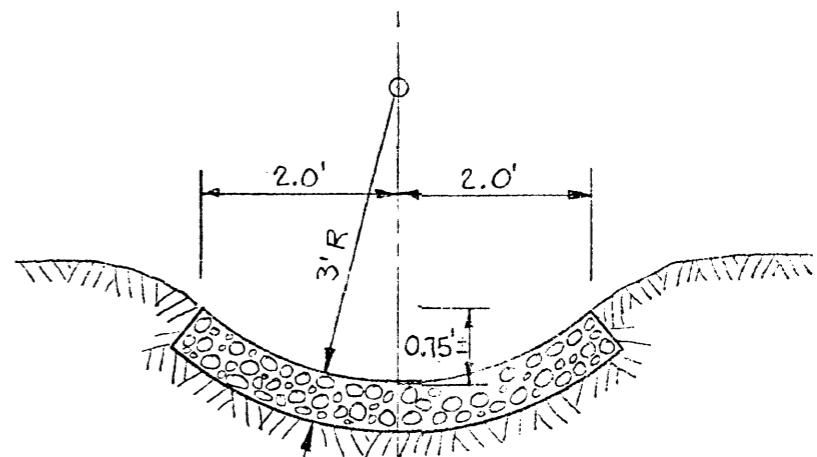
Takoma Park -
 Parking
 Change Order # 10



PLAN
 SCALE 1"=20'
 1 OF 3

SKIDMORE, OWINGS & MERRILL		MONTGOMERY COLLEGE	
ARCHITECTS		ENGINEERS	
NEW YORK CHICAGO SAN FRANCISCO PORTLAND		PARKING GARAGE ALTERNATE KING ST. DRAINAGE	
DRAWN: G. Smith	CHECKED: WSW	APPROVED:	DATE: 9 AUG. '79
			JOB NO.: 6910-100
			DWG NO.: CSK-8979-A

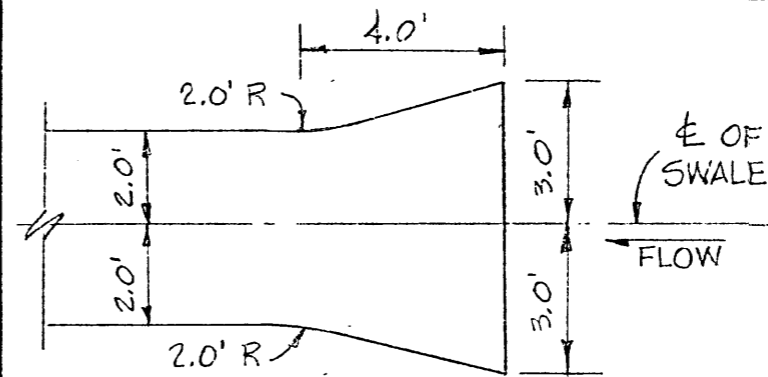
T-GR-C-ORA-116



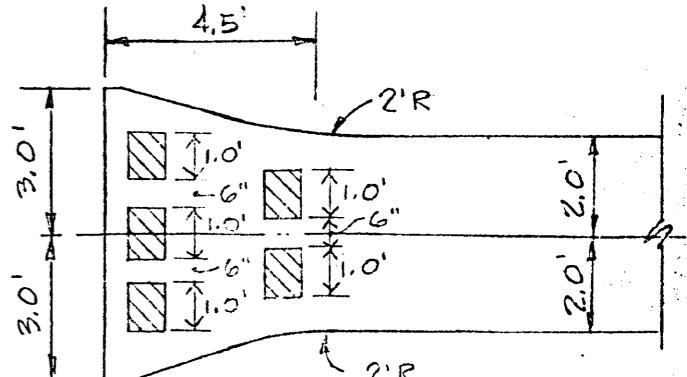
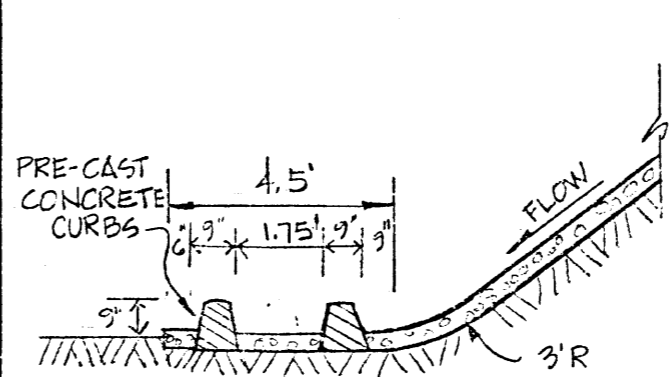
6" OF MACADAM BASE COURSE MATERIAL AS PER ARTICLE 32.06 OF THE MARYLAND SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES & INCIDENTAL STRUCTURES.

SECTION A-A

T-GR-C-ORA-116



DETAIL 1

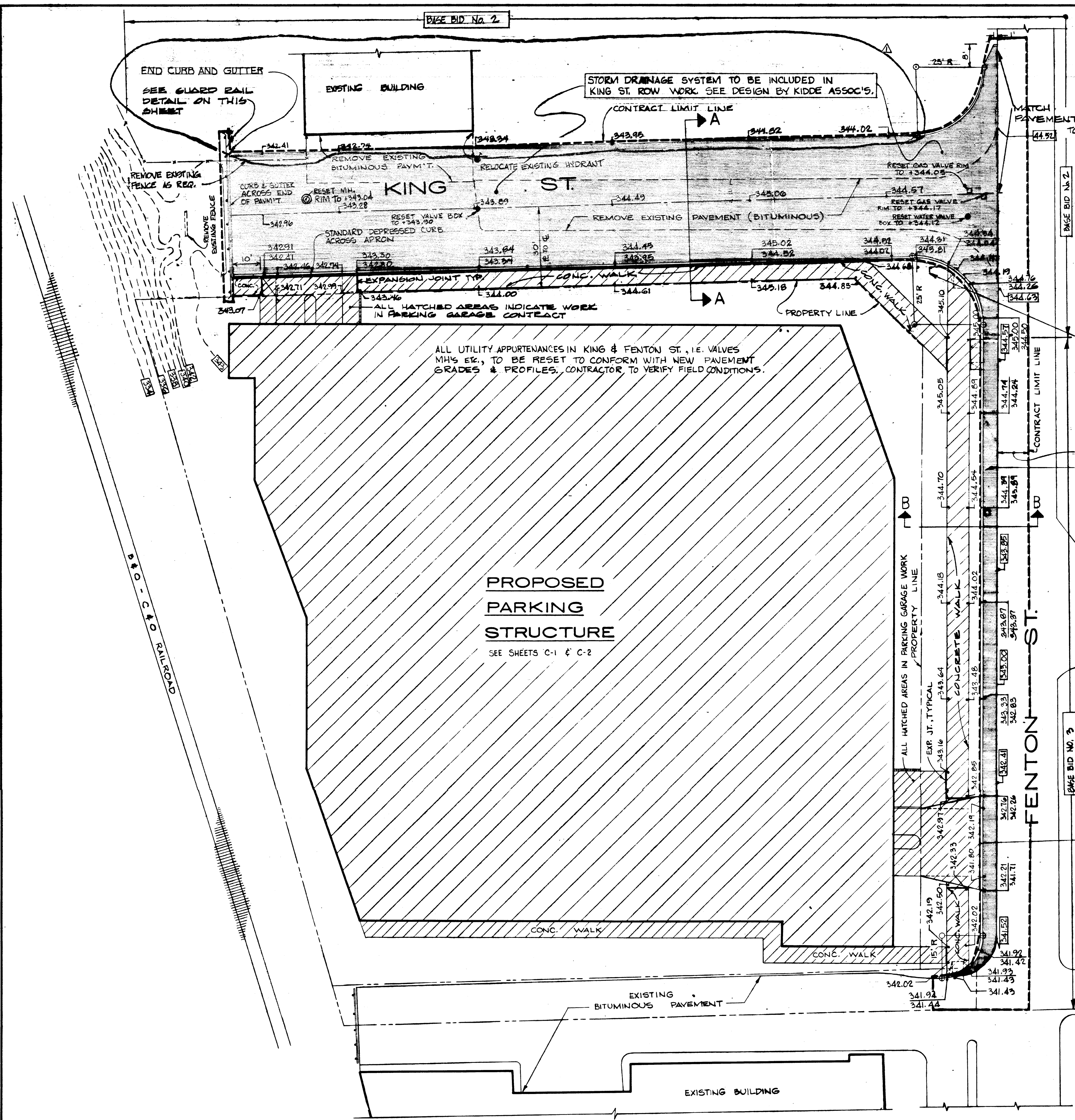


DETAIL 2

SKIDMORE, OWINGS & MERRILL		MONTGOMERY COLLEGE	
ARCHITECTS		ENGINEERS	
NEW YORK CHICAGO SAN FRANCISCO PORTLAND		PARKING GARAGE ALTERNATE KING ST. DRAINAGE	
DRAWN: G. Smith	CHECKED:	APPROVED:	DATE: 9 AUG. '79
			JOB NO.: 6910-100
			DWG NO.: CSK-8979-B

LEGEND

— 342.50	EXISTING SPOT ELEVATION
— 343.00	PROPOSED SPOT ELEVATION
— 343.50	PROPOSED TOP OF CURB ELEVATION
— 344.00	PROPOSED GUTTER ELEVATION
○	EXISTING MANHOLE
○	EXISTING WATER VALVE
○	EXISTING GAS VALVE
—	CONTRACT LIMIT LINE

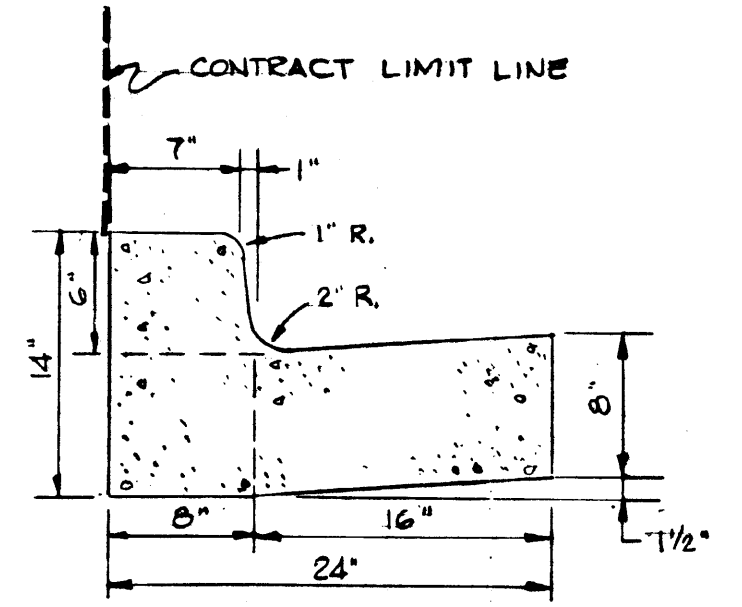


NOTE: SEE SITE SURVEY & SHEET C-1 FOR UTILITIES WITHIN KING & FENTON ST. R.O.W., ALL ABOVE & BELOW GRADE UTILITIES NOT REQUIRED FOR NEW CONSTRUCTION TO BE REMOVED OR RELOCATED & INCLUDED IN NEW WORK.

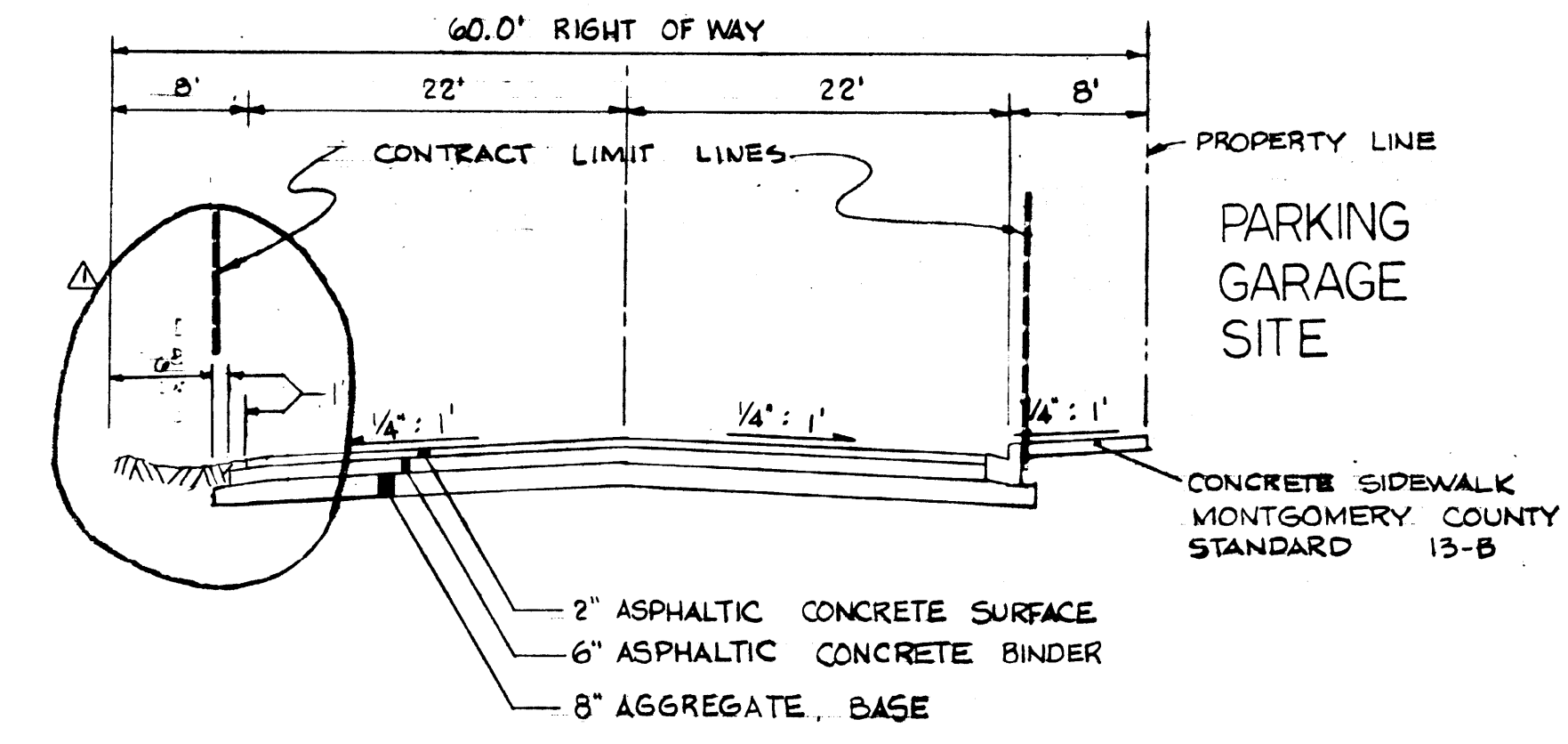
PARKWAY AREAS TO BE ERODED OR SEEBED IN ACCORDANCE WITH COUNTY OR LOCAL SPECIFICATIONS. RELOCATE EXISTING STOP & STREET SIGNS TO LOCATION IN PARKWAY AS PER CITY STANDARDS. NOTE: SEE SHEETS C-1 & C-2 FOR PARKING GARAGE DEVELOPMENT

INDICATES AREA OF SURFACE COURSE FEATHERING
 INDICATES NEW ASPHALT PAVING, SEE TYPICAL SECTIONS ON THIS SHEET

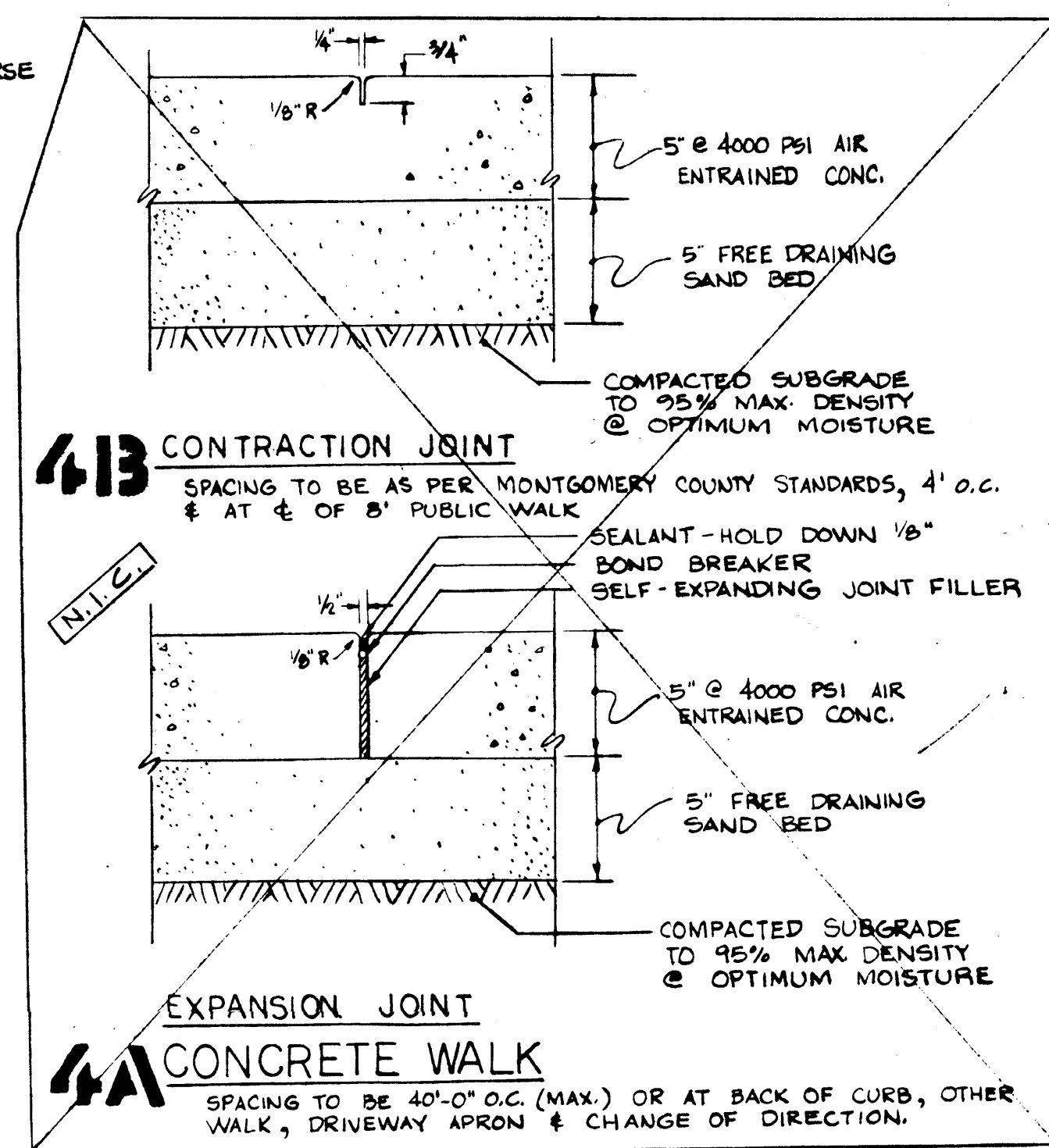
PLAN
SCALE 1"=20'-0"



1 TYPICAL PROPOSED PAVING SECTION FOR KING STREET SECTION A-A
 COMBINATION CONCRETE CURB & GUTTER MONTGOMERY COUNTY STANDARD 10 A
 OPEN BULKHEAD JOINTS AS PER ARTICLE 35.03 OF MARYLAND STATE SPECS.

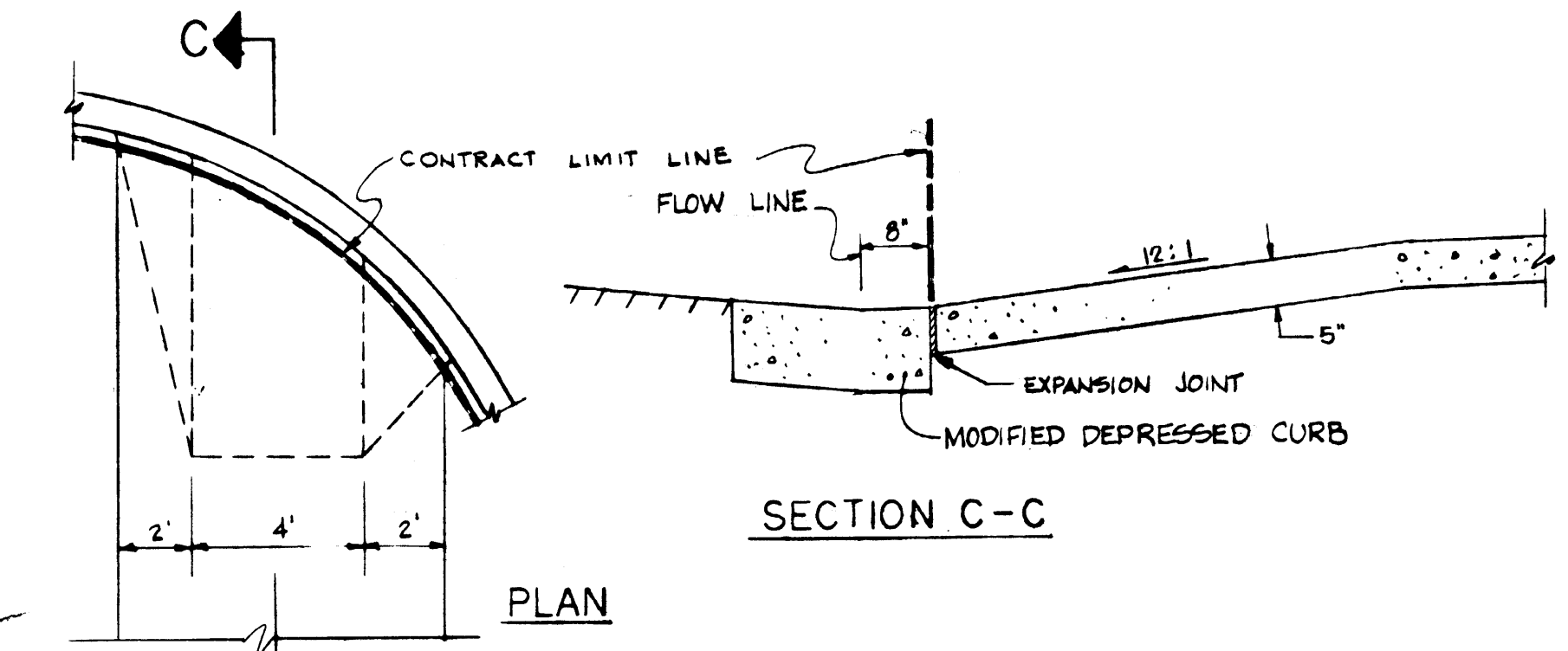


2 TYPICAL PROPOSED PAVING SECTION FOR FENTON STREET SECTION B-B
 CONCRETE SIDEWALK MONTGOMERY COUNTY STANDARD 15-B

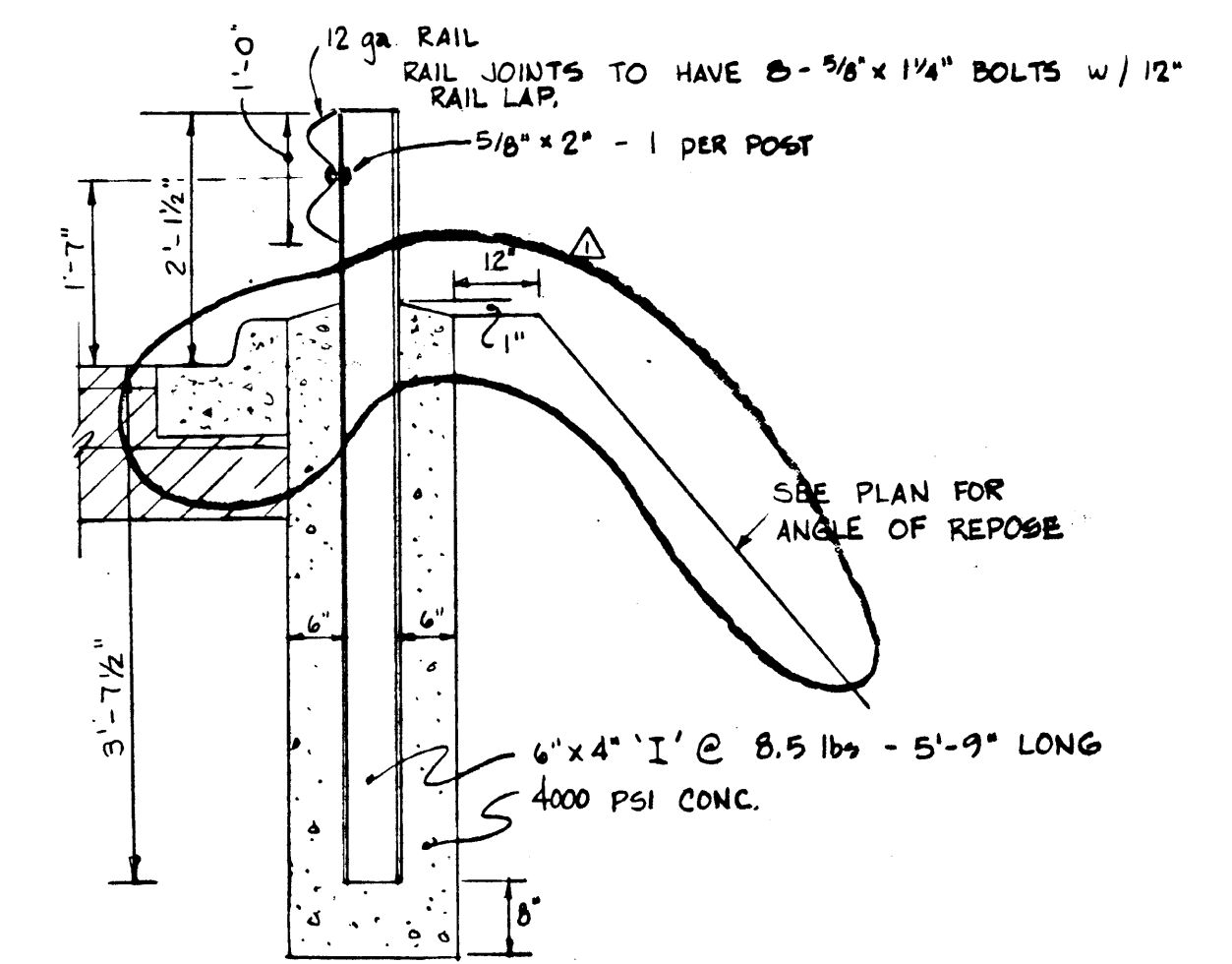


4B CONTRACTION JOINT
SPACING TO BE AS PER MONTGOMERY COUNTY STANDARDS, 4' O.C. & AT 1/2 OF 8' PUBLIC WALK

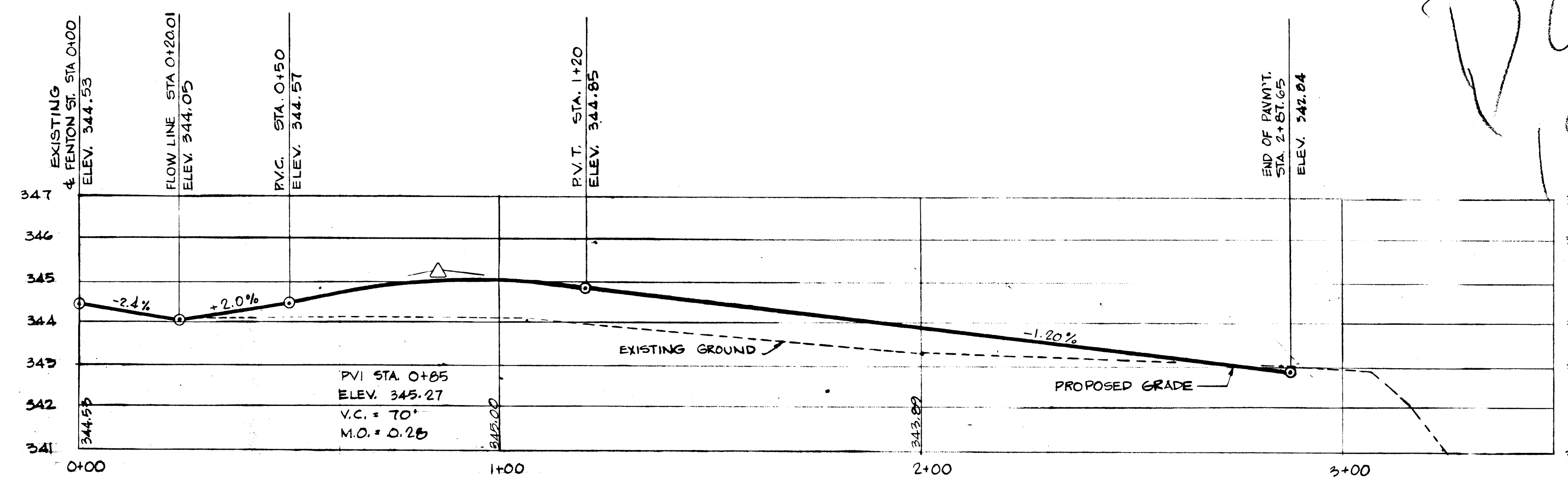
4A EXPANSION JOINT CONCRETE WALK
SPACING TO BE 40'-0" O.C. (MAX.) OR AT BACK OF CURB, OTHER WALK, DRIVEWAY APRON & CHANGE OF DIRECTION.



5 SIDEWALK RAMP
TYPICAL CONDITIONS SHOWN

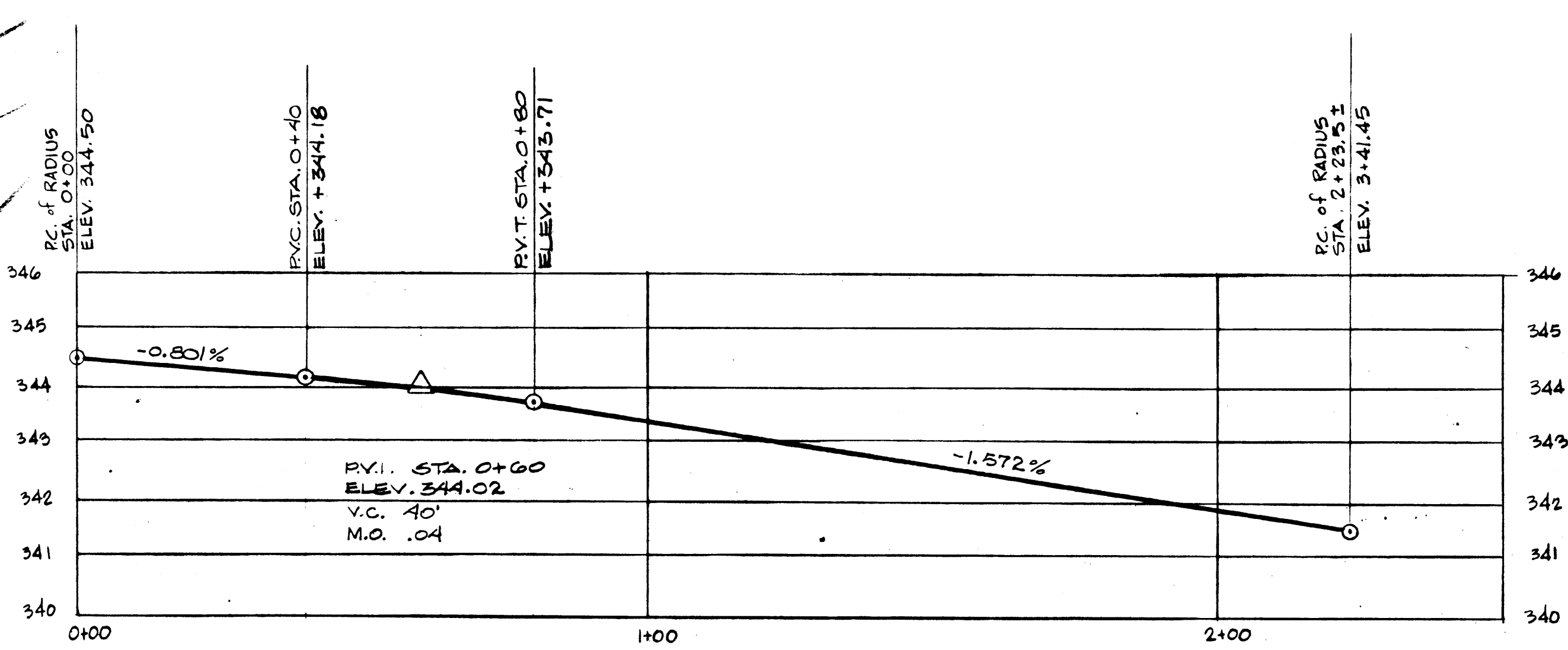


6 GUARD RAIL
LOCATED @ END OF KING ST. ENDS TO BE SLIGHTLY FLARED WITH APPROVED END SECTIONS.



7 CENTERLINE PROFILE OF KING ST.
SCALE 1:20 HORIZ., 1:2 VERT.
DESIGN AS PER KIDDE & ASSOC'S SUBMITTAL TO MONTGOMERY COUNTY AND IS SUBJECT TO APPROVAL.

DO NOT ISSUE WJ



8 GUTTER PROFILE OF FENTON ST.
SCALE 1:20 HORIZ., 1:2 VERT.

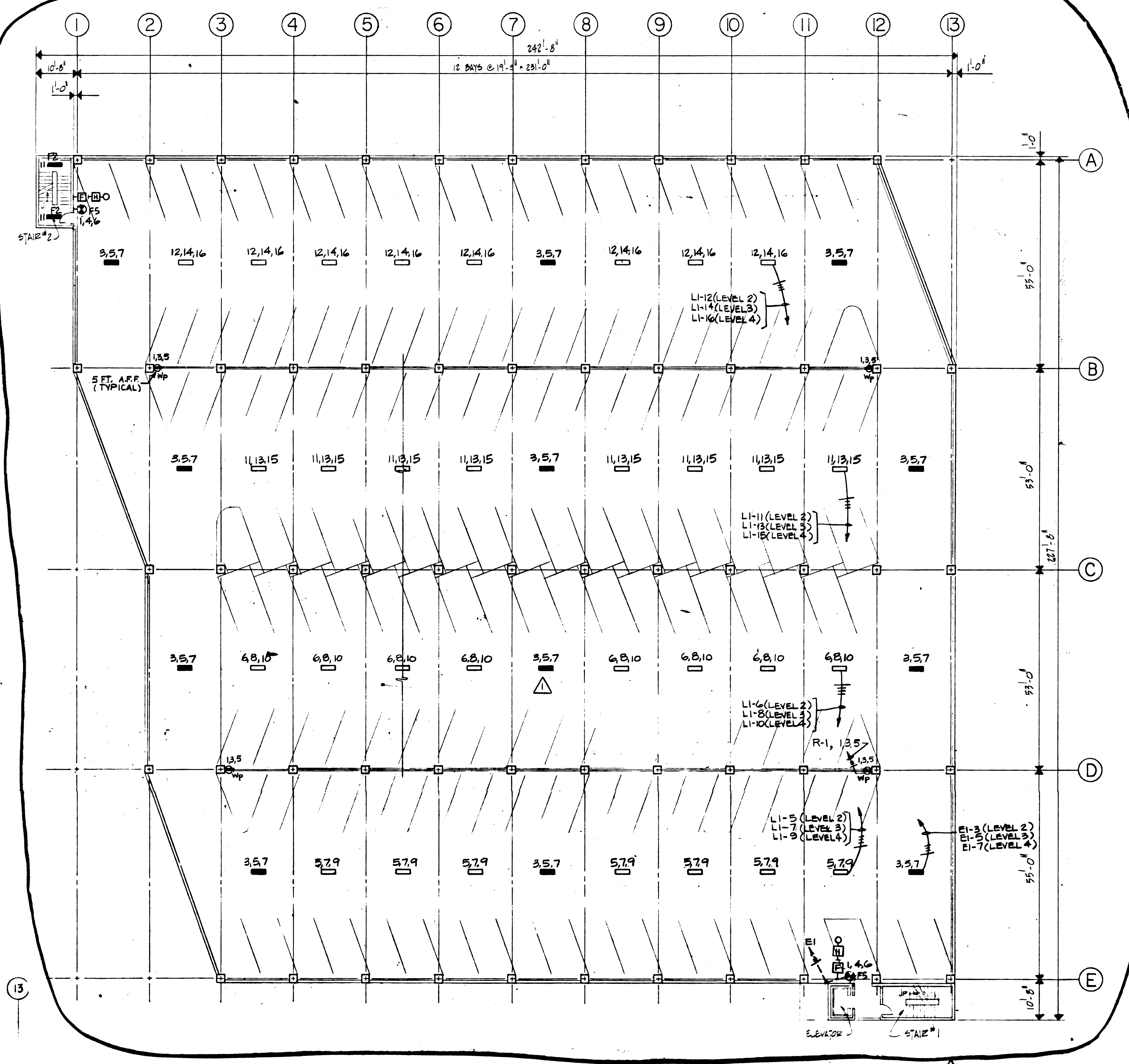
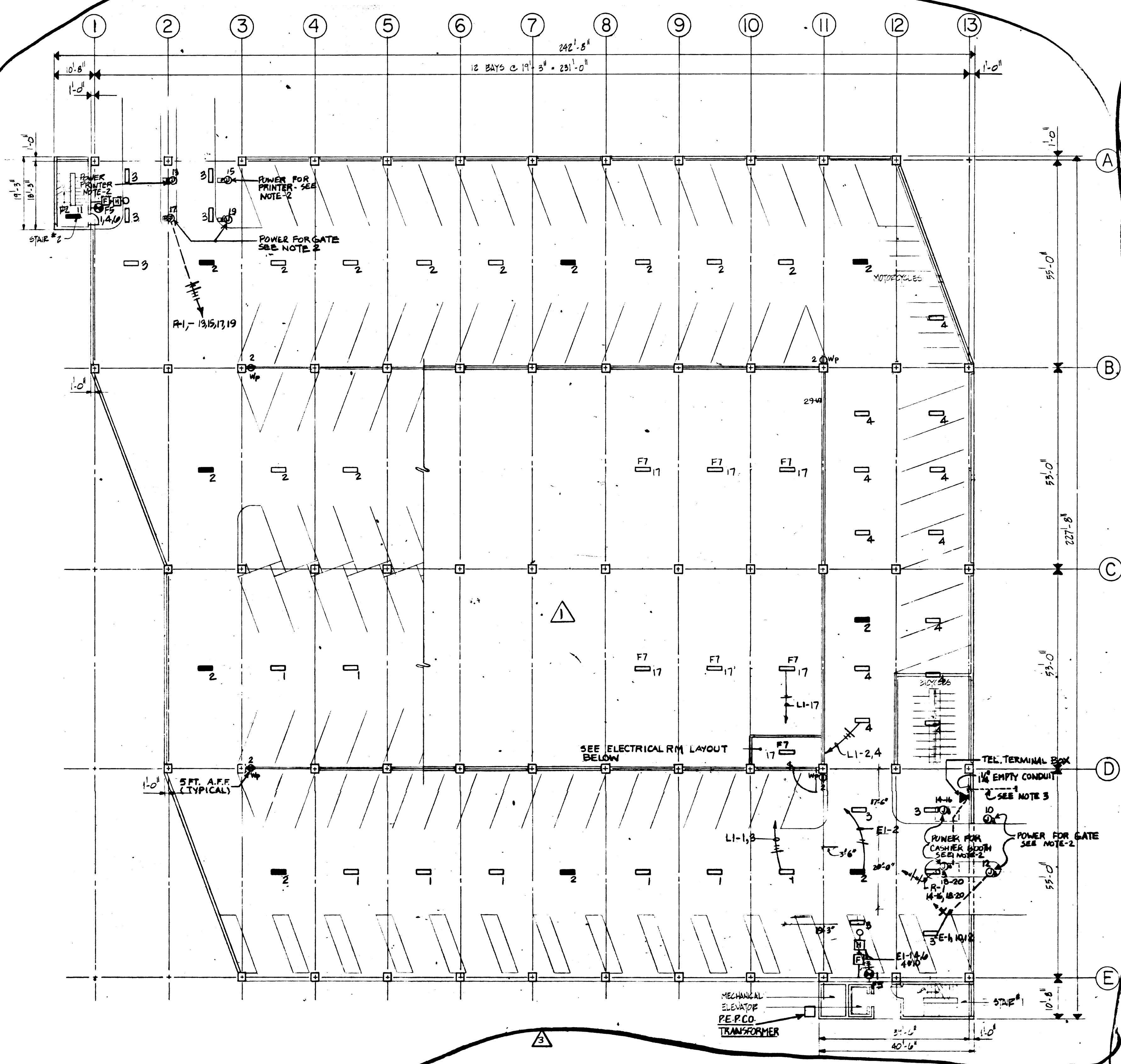
REVISED NORTH CURB ON KING STREET		JCS/HMS
ISSUED FOR BIDDING		KW/PJK
NO.	DESCRIPTION	BY DATE ISSUED
REVISIONS		
MONTGOMERY COLLEGE		
REDEVELOPMENT OF TAKOMA PARK CAMPUS		
TAKOMA PARK		MARYLAND
PARKING GARAGE		
PUBLIC RIGHT-OF-WAY IMPROVEMENTS		
DATE: 27 SEPT '18	DESIGNED BY: [Signature]	CHECKED BY: [Signature]
SCALE: AS SHOWN	PROJECT: [Signature]	JOB NUMBER: 1810-100
		DRAWING NUMBER: C-3

T_OR_C-03.r16

NOTE: COMPLETE REPLACEMENT OF LIGHTING. SEE DRAWINGS FOR ARA #91009

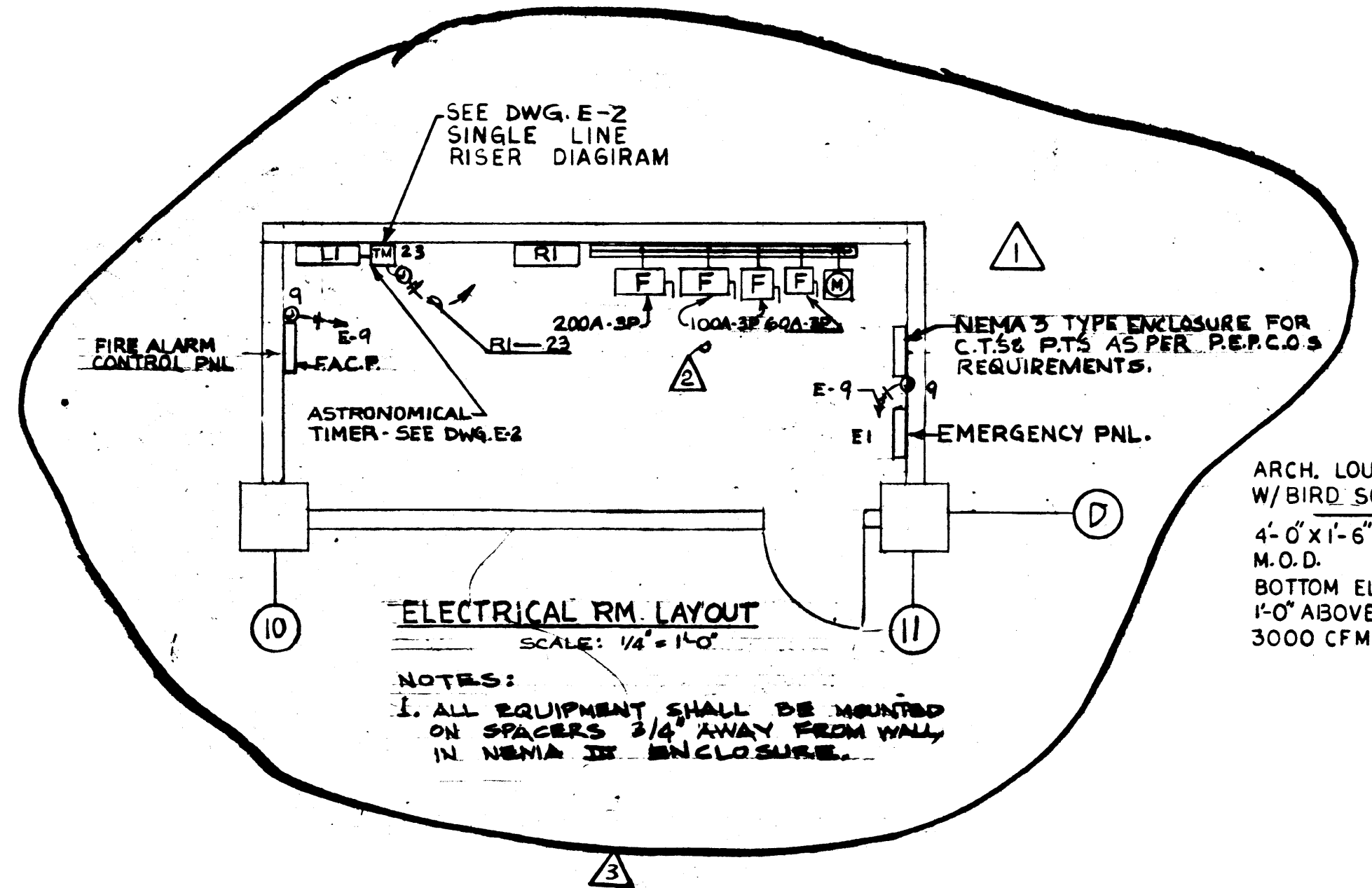
SOM

SKIDMORE OWINGS & MERRILL ARCHITECTS ENGINEERS ARCHITECTS CHICAGO NEW YORK SAN FRANCISCO PORTLAND



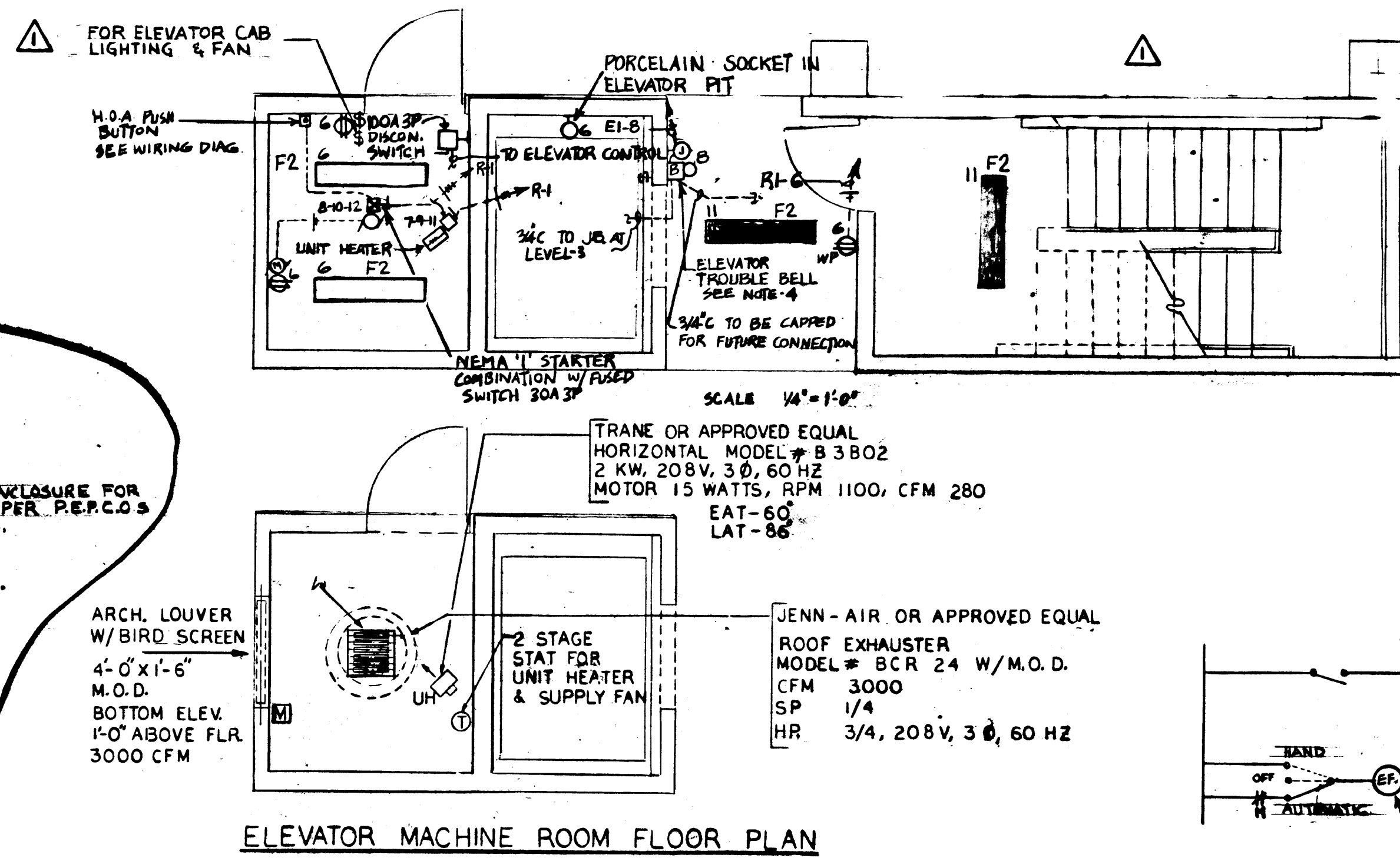
PLAN LEVEL I

TYPICAL PLAN LEVELS 2, 3 & 4

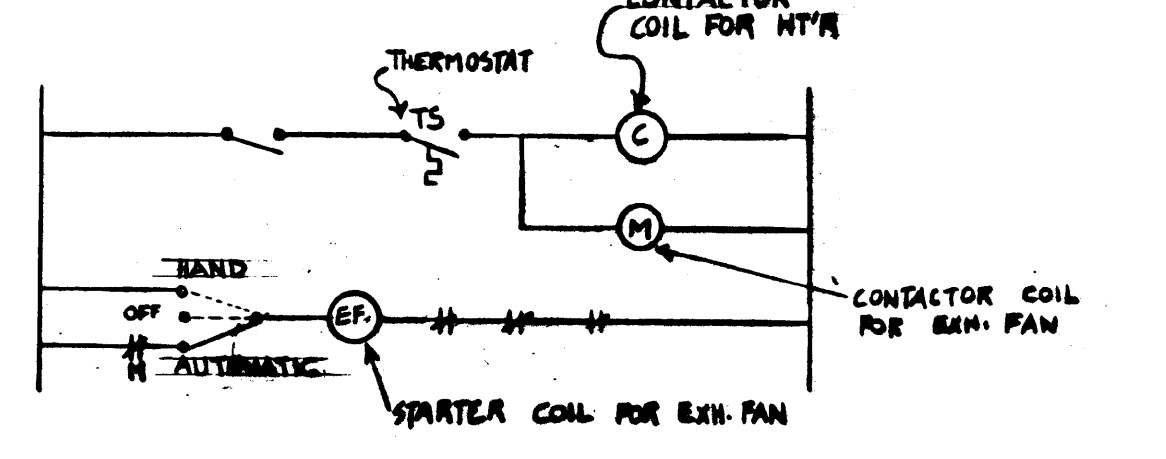


ELECTRICAL RM LAYOUT
SCALE: 1/4" = 1'-0"

NOTES:
1. ALL EQUIPMENT SHALL BE MOUNTED ON SPACERS 3/4" AWAY FROM WALL IN NEMA 3 ENCLOSURE.

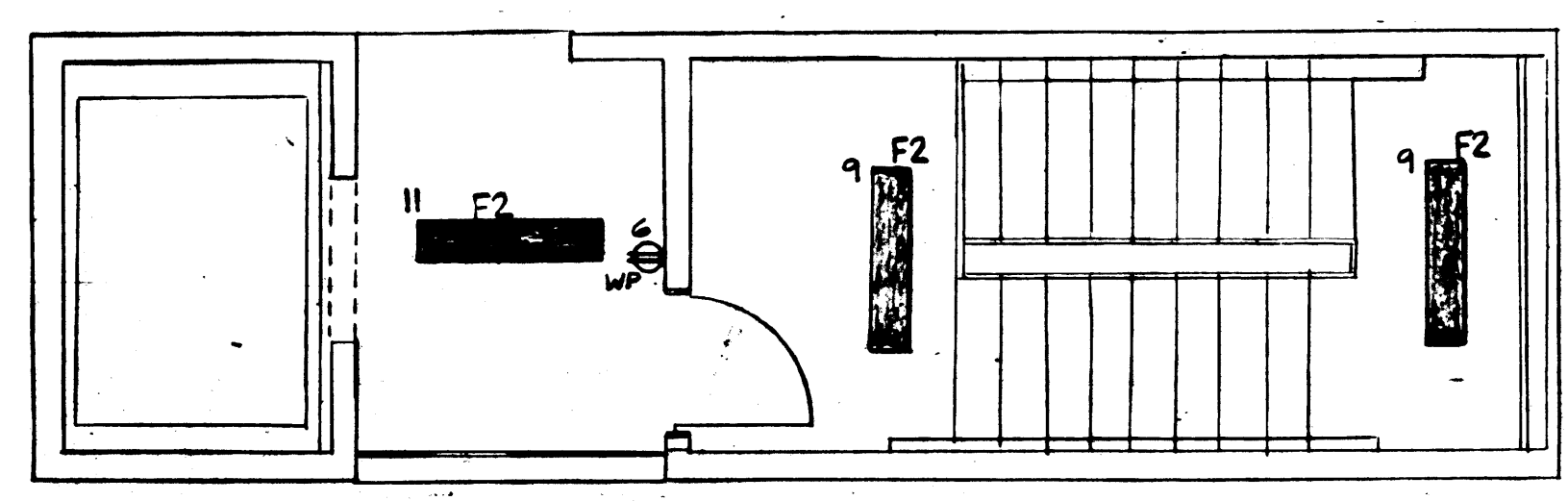


ELEVATOR MACHINE ROOM FLOOR PLAN



UNIT HEATER-EXH. FAN CONTROL WIRING DIAGRAM

NOTE: EXH. FAN SHALL BE INTERLOCKED WITH DAMPER MOTOR



SCALE 1/4" = 1'-0"

- NOTES:
1. All lighting fixtures are type "FI" unless otherwise noted.
 2. Contractor shall verify the exact location of conduit termination box with the equipment manufacturer.
 3. Empty conduit shall be equipped with pull wire and suitable caps.
 4. PROVIDE CONTACTS FOR FUTURE CONNECTION TO CENTRAL SUPERVISORY SYSTEM

REVISION	
NO.	DESCRIPTION
1	ISSUED FOR BIDDING
2	ISSUED FOR OWNER'S REVIEW
3	ADDENDUM NO. 1, REVISIONS AS SHOWN
4	CIRCUITING REVISIONS
5	GENERAL LIGHTING REVISIONS
6	COMPLETE REPLACEMENT OF LIGHTING IN PARKING GARAGE - SEE DRAWINGS FOR ARA #91009

MONTGOMERY COLLEGE	
REDEVELOPMENT OF TAKOMA PARK CAMPUS	
TAKOMA PARK	MARYLAND
PARKING GARAGE	
POWER AND LIGHTING PLANS LEVELS 1, 2, 3 & 4. SYMBOL LIST FIXTURE SCHEDULE	
DATE	1 SEPT 78
DRAWN BY	691C
CHECKED BY	
DATE	1/16/78
DATE	1/16/78

ELECTRICAL WORK SPECIFICATIONS

- The general conditions and special conditions issued by the architect shall apply to all work performed by this contractor.
- Include the following as related to electrical work:
 - Rubbish removal.
 - Cutting and patching.
 - Fee for all permits, licenses and inspections required by authorities having jurisdiction.
 - Preparation of record drawings to be turned over to owner at conclusion of contract.
 - Public liability insurance and workman's compensation insurance to fully indemnify the owner, architect and engineer.
- All materials shall be new, free of defects, and bear the UL label.
- All work to conform to National Electrical Code and local authorities having jurisdiction.
- Verify existing conditions at the job site and include all work due to existing conditions.
- Coordinate the installation with other trades to avoid interference.
- Include all miscellaneous items required to complete the installations including but not limited to hangers, supports, and fasteners.
- Guarantee all materials, workmanship and equipment, except lamps, for a period of one year after owner's acceptance.
- Submit shop drawings, 6 copies, for approval for all equipment prior to ordering.
- Wiring devices: specification grade, stainless steel faces and plates.
- Provide lighting fixtures and lamps in accordance with fixtures to be UL labeled, ballasts UL/EVL. Fixtures to be cleaned of dust, dirt, and touch-up paint if required.
- Conduit: Rigid steel with threaded couplings and connectors, minimum size 3/4". ALL CONDUITS SHALL BE UNEXPOSED.
- Outlet boxes minimum size 4"x4"x2" with raised covers and blank louvers as required.
- Wire: THWN, THHN copper minimum size #12 AWG.
- Panelboards: G.E. NHB or NLAB or square D NHB or NQOB complete with typed directory, lockable doors and NEMA type 3 enclosure.

208/120 Volt, 3 Phase,
4 wire, 60 hertz.
- Electric service:

208/120 Volt, 3 Phase,
4 wire, 60 hertz.
- Verify the exact placement of work to conform to architectural drawings and architect's field instruction.
- Generally, branch conduits shall be surface mounted, following paths parallel to beams in a neat and approved manner.
- Grounding shall comply with national and local code requirements.

FIRE ALARM SYSTEM

- A. General:**
Provide all conduit, wire, outlet boxes, junction boxes, terminal equipment and all accessories necessary to erect an A.C., electrically supervised, fire alarm system as shown and specified on the drawings.
- B. Manufacturers:**
- Ellenco
 - Notifier Co., Eshart Industries, Inc.
 - Simplex
- C. Description of System Operation:**
The act of manually pulling a lever in a fire alarm station shall sound an audible and visual alarm in the fire alarm control panel. At the same time a general alarm shall sound vibrating alarm bells and operate red rotating visual beacons mounted adjacent to bells.
- D. Fire Alarm Control Panel:**
- Furnish and install an electrically supervised fire alarm control panel.
- The control panel quality as well as the system's quality shall be compatible with the campus existing fire alarm system. The fire alarm control panel shall include (5) five annunciation zones (visual and audible) as follows:
- Zone #1: Level 1
 - Zone #2: Level 2
 - Zone #3: Level 3
 - Zone #4: Level 4
 - Zone #5: Level 5
- A separate visual and audible trouble alarm shall be provided for each zone.
- A silencing switch shall silence the audible alarm. However, the visual alarm can be reset only when the alarm device has been reset.
- The Control Panel shall include all necessary switches, relays, indicator lamps, etc. and provisions for FUTURE tie-in to central campus system.
- E. Pull Stations:**
Pull stations shall be semi-flush mounted, of the break glass type, equipped with special key for testing purposes. The manual stations shall have operating directions in raised letters. The key switch shall be of the trip key type so that the key cannot be removed when the switch is in the "O" position.
- F. Visual Alarms:**
Provide adjacent to alarm bells a flashing red light or red rotating beacon of approved type for fire alarm applications to alert the handicapped.
- G. Alarm Bells:**
Alarm bells shall be compatible with the existing system.
- H. Standby Power:**
The fire alarm system shall be equipped with an approved standby battery system complete with trickle battery charger, inverters, transfer switches, etc.
- I. Construction Features:**
All equipment and terminal devices, including standby battery system shall be suitable for the installation in open building construction and be approved by NFPA and local Fire Marshall and other authorities having jurisdiction.

SYMBOL LIST

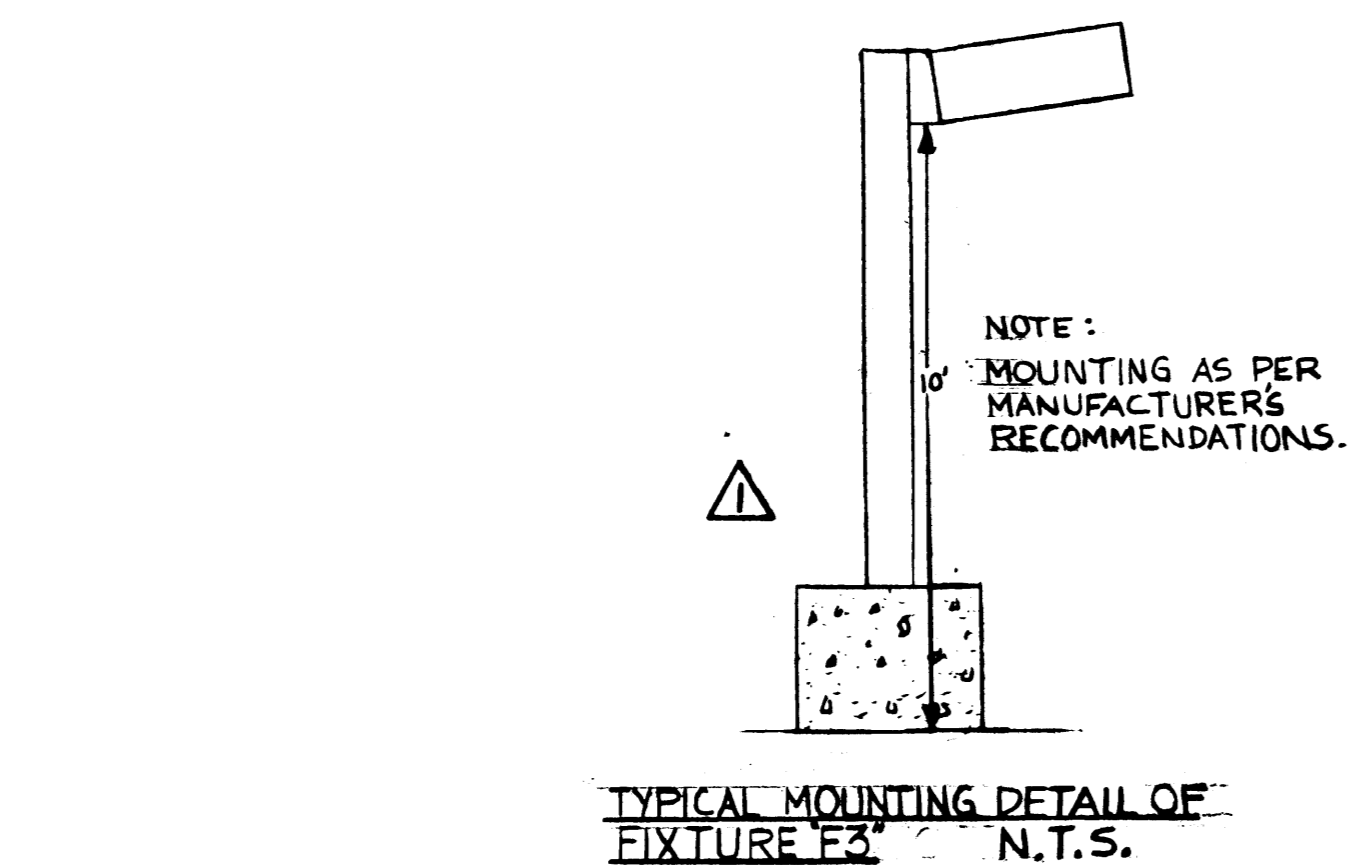
FI 2	CEILING MOUNTED LIGHT FIXTURE F1 INDICATES FIXTURE TYPE '2' INDICATES CIRCUIT NUMBER
LI	CEILING MOUNTED LIGHT FIXTURE ON TYPICAL FLOOR ADJACENT NUMBERS INDICATE CIRCUIT NUMBERS FIXTURE AND CIRCUIT NUMBER ON LEVEL 2 FIXTURE AND CIRCUIT NUMBER ON LEVEL 3 FIXTURE AND CIRCUIT NUMBER ON LEVEL 4 FIXTURE AND CIRCUIT NUMBER ON LEVEL 5
□	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE
□	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT
□	WALL MOUNTED LIGHT FIXTURE
□	WALL MOUNTED LIGHT FIXTURE ON EMERGENCY CIRCUIT
□	WALL MOUNTED "STAIR SIGN"
□	POLE MOUNTED LIGHT FIXTURE ASSEMBLY
□	CONVENIENCE DUPLEX RECEPTACLE OUTLET GRD. 120 V. 1# 2P 3W TYPE "WP" INDICATES WEATHER PROOF
□	JUNCTION BOX
□	SINGLE POLE TOGGLE SWITCH
□	NON-FUSED DISCONNECT SWITCH, RATING AS INDICATED
□	FUSED DISCONNECT SWITCH, SWITCH FUSE RATING AS NOTED OR SCHEDULED.
□	LIGHTING PANEL BOARD 208Y/120V
□	POWER PANELBOARD 208Y/120V
□	TRANSFORMER 480 PRIMARY 208Y/120 SECONDARY
□	FIRE ALARM MANUAL STATION 4'-6" ABOVE FLOOR
□	FIRE ALARM AUDIO/VISUAL STATION 7'-0" ABOVE FLOOR
□	FIRE ALARM CONTROL PANEL

PANEL SCHEDULE

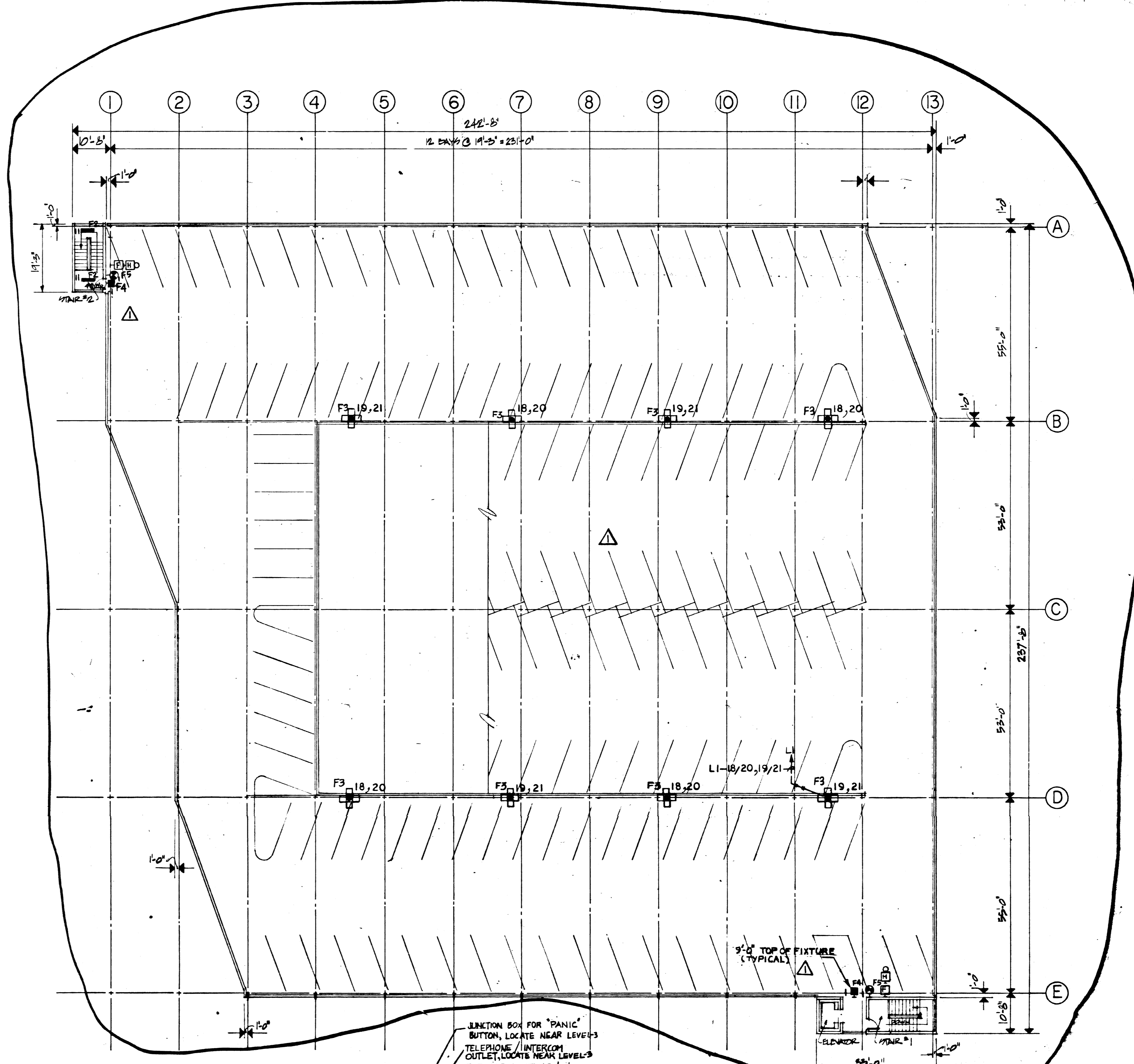
PANEL LABEL	VOLTAGE	MAINS	MFG.	20A-2P A 5	20A-1P A 5	MISC. BRANCHES	REMARKS
L-1	208Y/120	100 A Main Lugs	Surface	2	1	18 7	*
R-1	208Y/120	100A Main LUGS	Surface	12	2	2-20A 2P, 2-20A 3P	
E-1	208Y/120	50A Main Breaker	Surface	13	5		Panel on emergency circuit

* PANEL SHALL INCLUDE INTEGRAL 3P-100A MECHANICALLY HELD, ELECTRICALLY OPERATED "ON" SWITCH WITH AUXILIARY RELAYS AS REQUIRED FOR "ON-OFF" CONTROL FROM A 7 DAY ASTRONOMICAL TYPE TIME CLOCK. PROVIDE POWER AND CONTROL CIRCUITRY FOR THIS CLOCK/CONTROLLER OPERATION TO CONTROL CTS. 1 TO 24.

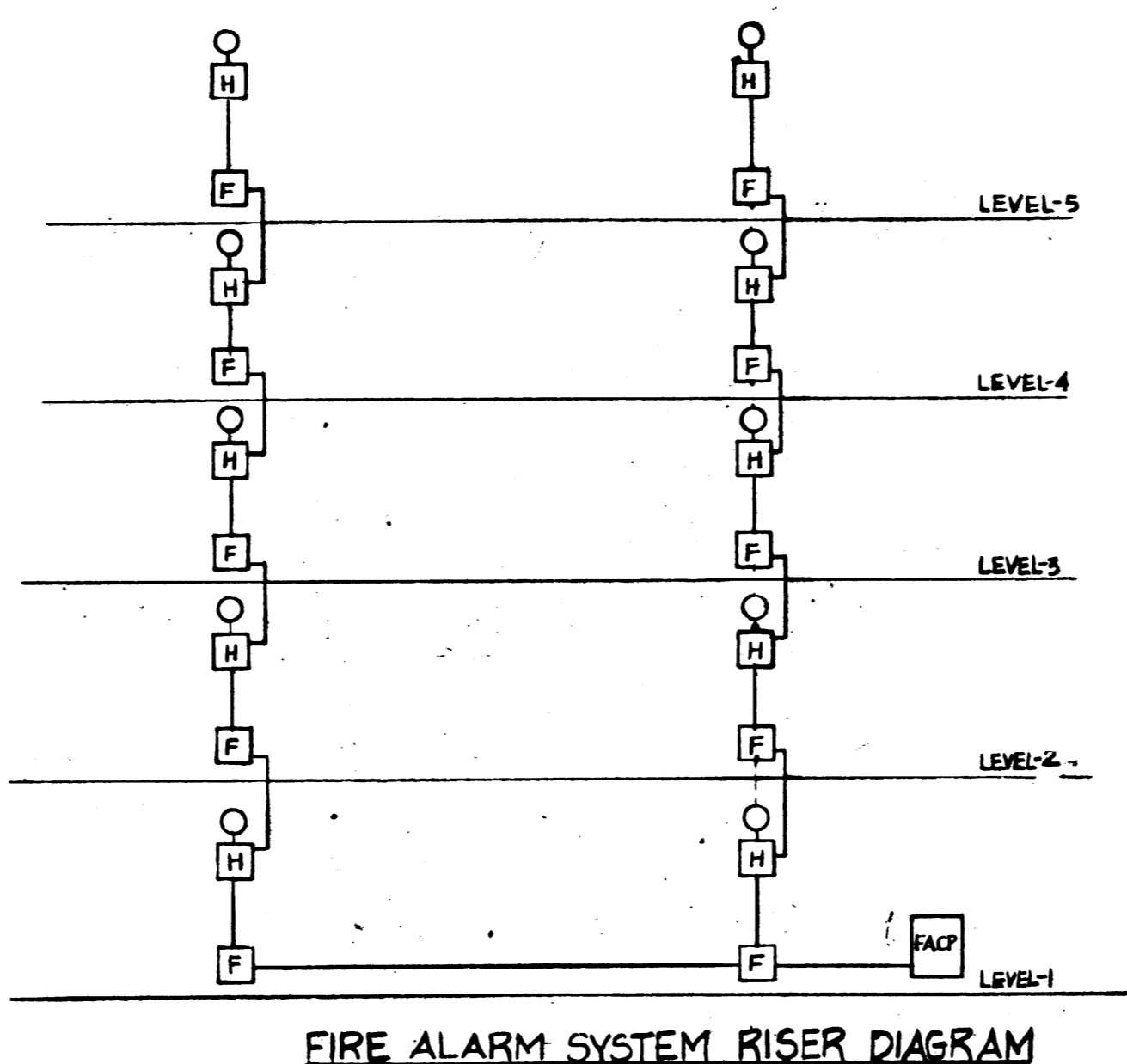
- "F1"** - Surface mounted, 55W low pressure sodium lighting fixture. EMCO CAT. #S55LPS-120V for 120V operation, 50W mounted. Alternate manufacturer Kirilin, provided it meets the specifications.
- "F2"** - Surface mounted, gasketed, fluorescent fixture with (1) F40/MKW lamp, Daybright Cat. #FR41241 or approved equal.
- "F3"** - Lighting pole assembly with (4) 90W low pressure sodium lamps. EMCO CAT. #S90LPS-120V. Alternate manufacturer Kirilin, provided it meets the specifications. Aluminum pole shall be painted matte black. EMCO Cat. #PA Series or approved equal.
- "F4"** - Surface wall mounted low pressure sodium lighting fixture. EMCO CAT. #S55LPS-120V. 55W LPS. Alternate manufacturer Kirilin, provided it meets the specifications.
- "F5"** - Exit "Stair" sign, Hub Cat. #9418-FWD with (2) F675 lamps, or approved equal.
- "F6"** - Same as "F1" except for 120 Volt operation.
- "F7"** - Surface mounted, fluorescent fixture. "Gamut" strip with 1-60W lamp. Guth Cat. #M6504/800. Ballasts shall be operable at -20°F.



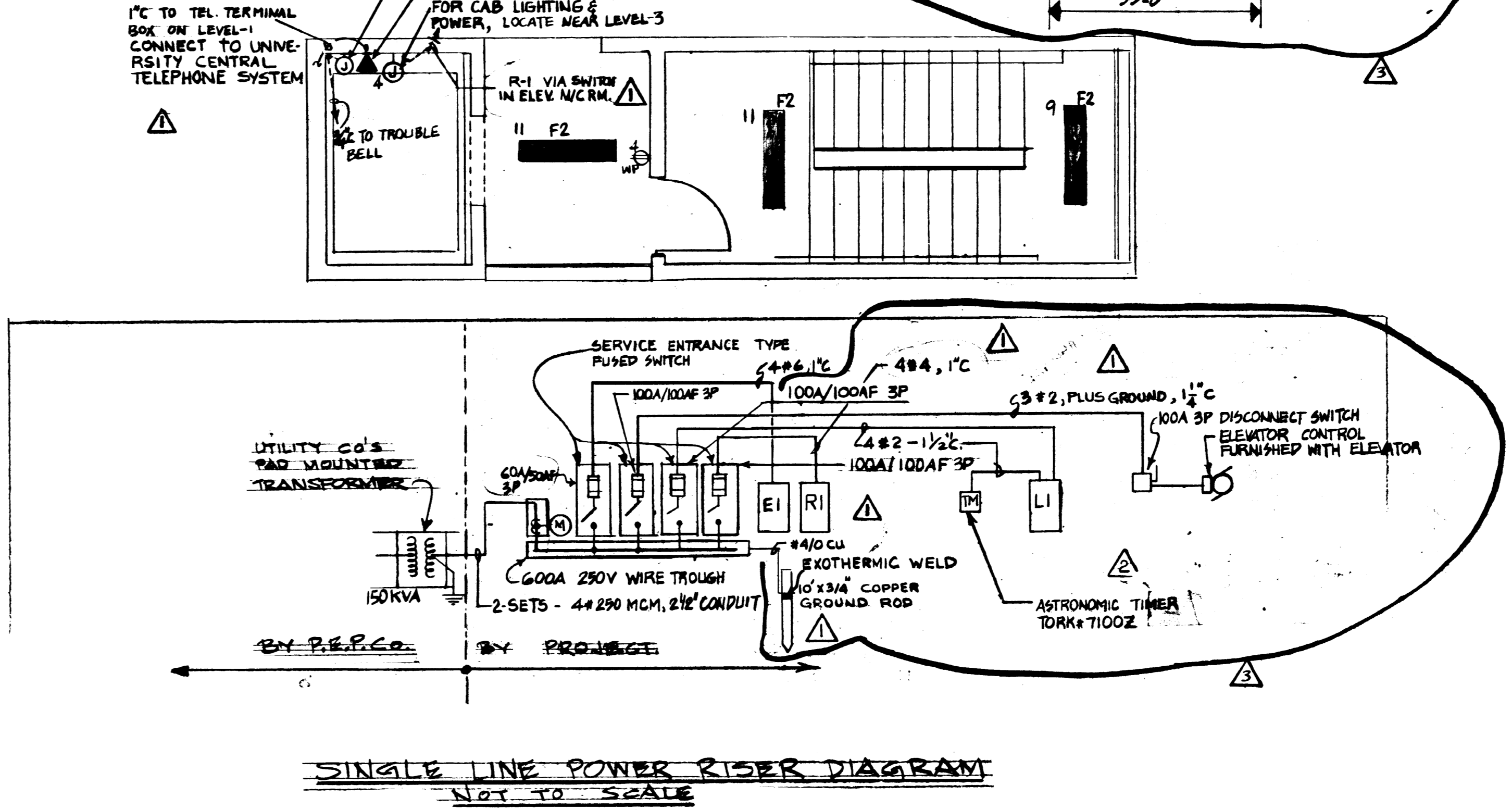
NOTE: COMPLETE REPLACEMENT OF LIGHTING
SEE DRAWINGS FOR ARA #91009



PLAN LEVEL 5



FIRE ALARM SYSTEM RISER DIAGRAM



SINGLE LINE POWER RISER DIAGRAM
NOT TO SCALE

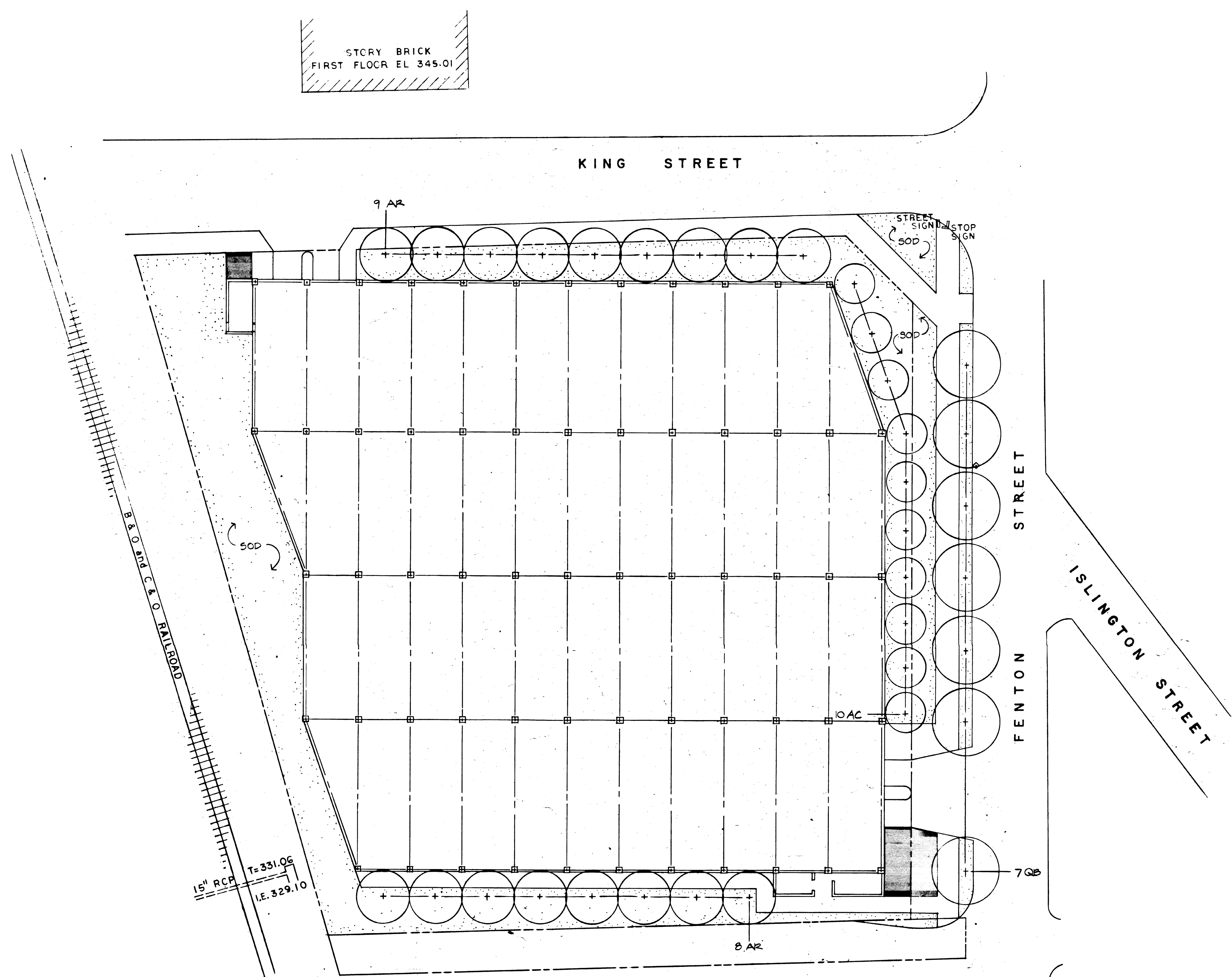


NO.	DESCRIPTION	BY	DATE
1	ISSUED FOR BIDDING	KW	11-10-78
2	ISSUED FOR OWNER'S REVIEW	KW	11-23-78

REVISIONS	
COMPLETE REPLACEMENT OF LIGHTING FOR PARKING GARAGE	03-93
SEE DRAWINGS FOR ARA #91009	
GENERAL LIGHTING REVISION	KW 02-27
CIRCUITING REVISIONS	KW 11-27
ADDENDUM NO. 1, REVISIONS AS SHOWN	KW 11-10-78
ISSUED FOR BIDDING	KW 11-10-78
ISSUED FOR OWNER'S REVIEW	KW 11-23-78

MONTGOMERY COLLEGE	
REDEVELOPMENT OF TAKOMA PARK CAMPUS	
PARKING GARAGE	
POWER AND MISC. RISER DIAGRAMS SPECIFICATIONS AND SCHEDULES	

DATE	ISSUED	BY	DATE
11-27-78	ISSUED	KW	11-27-78



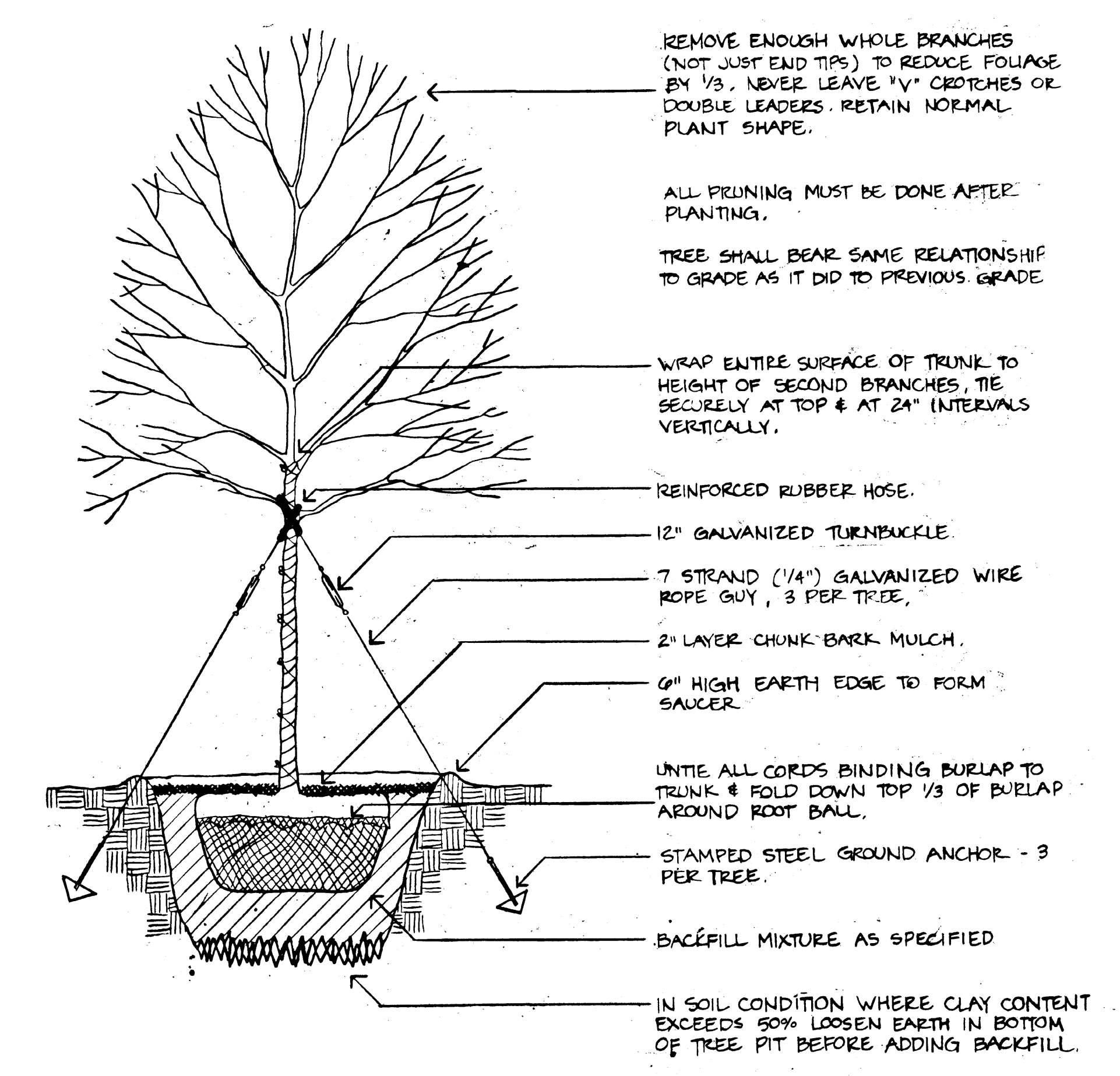
1 STORY BRICK
FIRST FLOOR EL 345.01

1 STORY BRICK
FIRST FLOOR EL. 341.16

2 STORY BRICK
FIRST FLOOR EL 343.10

PLANT LIST

CODE	QUAN	BOTANICAL NAME	COMMON NAME	CAL.	SIZE	ROOT	REMARKS
AR	17	ACER RUBRUM	RED MAPLE	4" CAL	---	B&B	
AC	10	AMELANCHIER CANADENSIS	DOWNY SHADBLOW	---	10-12'	B&B	HEAVY
QB	7	QUERCUS BOREALIS RUBRA	NORTHERN RED OAK	4" CAL	---	B&B	
---	1080	HEDERA HELIX PALTICA	BALTIC IVY	3" POTS	15-18"	---	



TYPICAL TREE PLANTING DETAIL
NOT TO SCALE

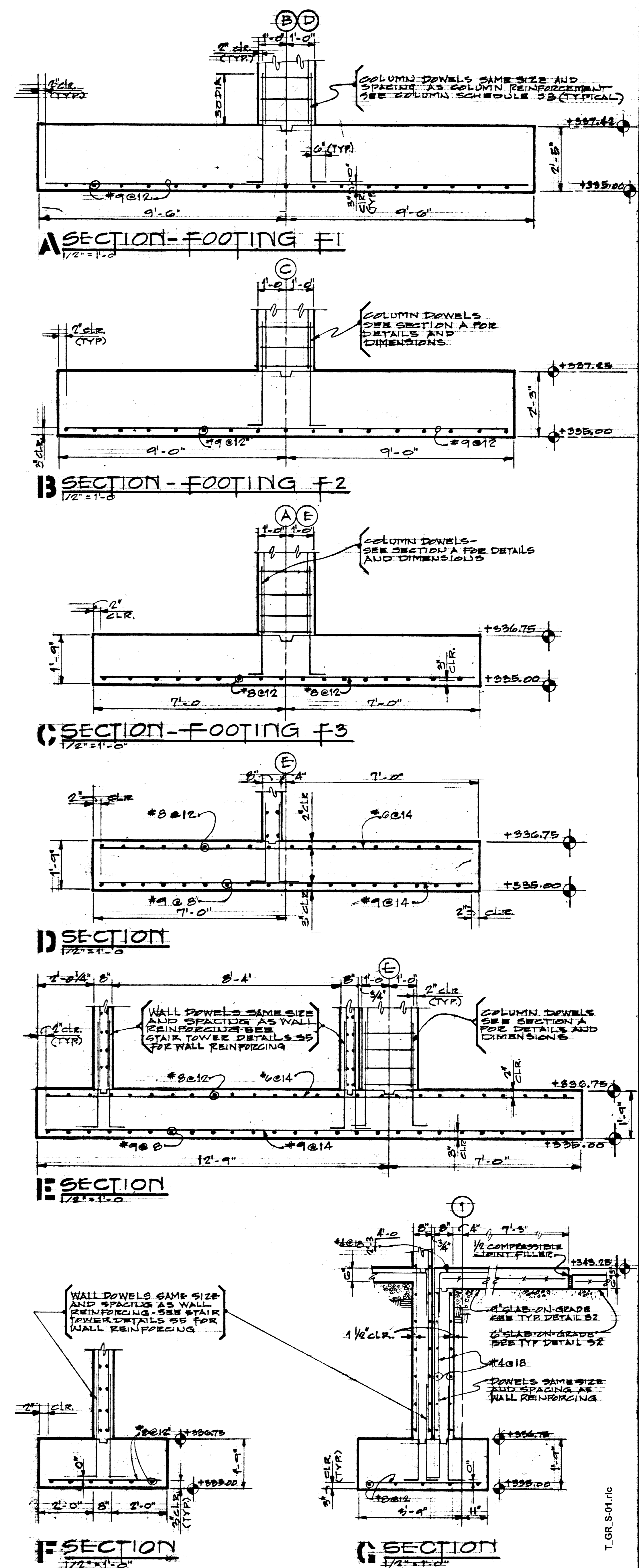
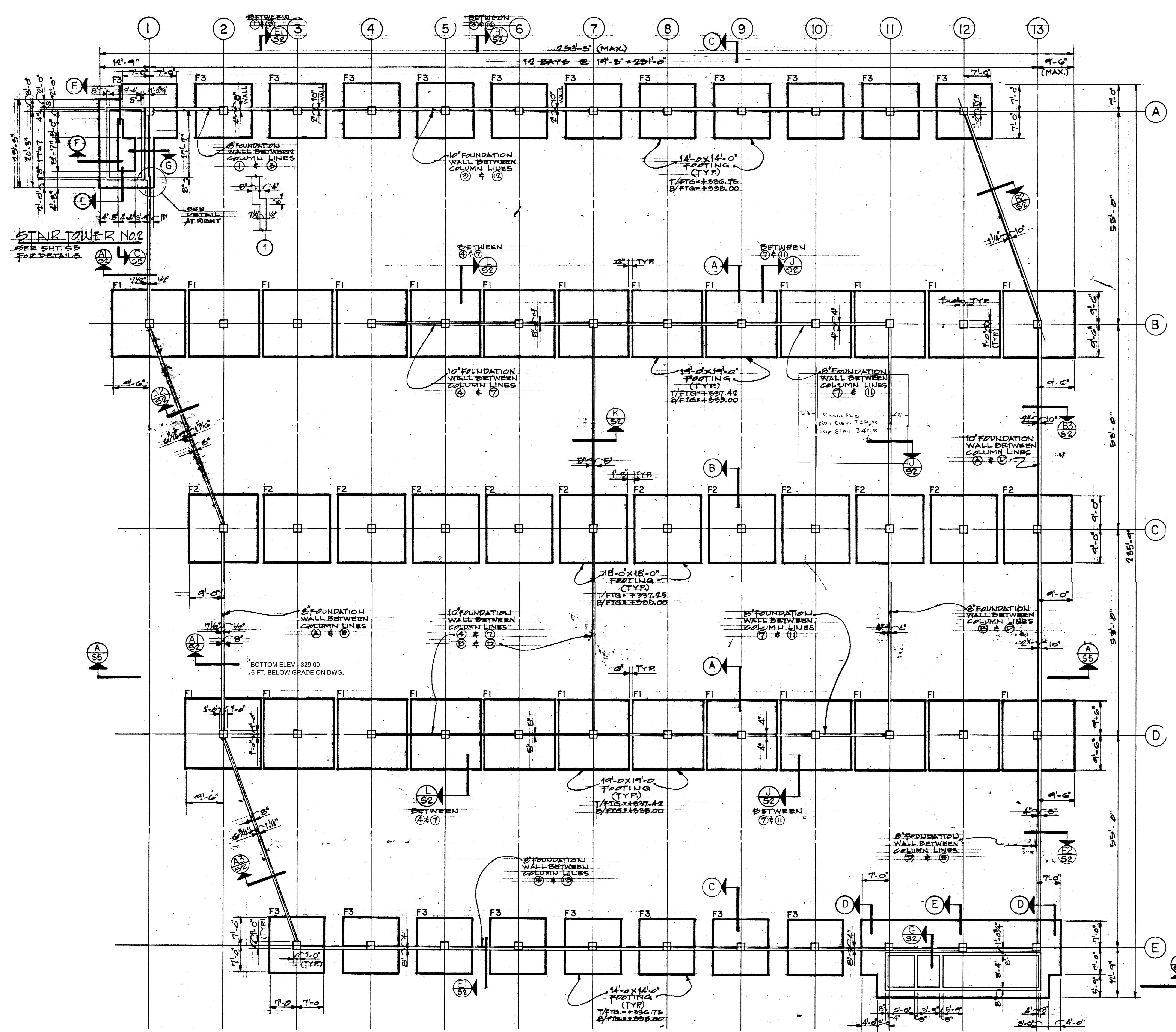
NO.	DESCRIPTION	ISSUED
2	ISSUED FOR BIDDING	KW 2/27/78
1	ISSUED FOR OWNER'S REVIEW	KW 1/9/78

REVISIONS

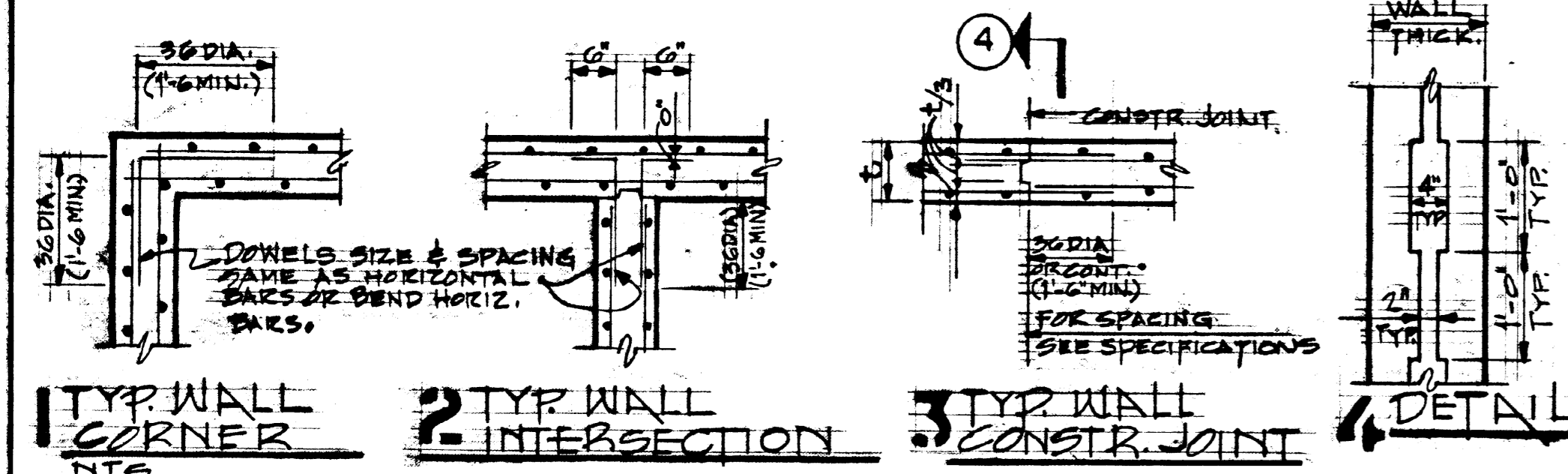
MONTGOMERY COLLEGE
REDEVELOPMENT OF TAKOMA PARK CAMPUS
TAKOMA PARK MARYLAND
PARKING GARAGE

LANDSCAPING - ALTERNATE NO. 4

DRAWN	<i>[Signature]</i>	JOB NUMBER	6910
CHECKED	<i>[Signature]</i>	DRAWING NUMBER	
ET			
SCALE	AS SHOWN		
DATE	SEPT. 1, 1978		



- FOUNDATION, SLAB-ON-GRADE AND WALL NOTES**
- All soil supported footings shall be founded upon compacted subgrade with a minimum bearing capacity of 3000 PSF as verified by the Owner's Soil Testing Laboratory. The bottom of the footing elevation as shown on the drawings is estimated. Final exact elevations as approved by the Owner's Soil Testing Laboratory may vary based on actual soil conditions.
 - The soil subgrade for all footings, slabs-on-grade and walls shall be inspected and approved by the Owner's Testing Laboratory immediately prior to pouring concrete.
 - The soil subgrade for all footings, slabs-on-grade and walls shall be compacted to 95% maximum density at optimum moisture content.
 - All organic and/or unsuitable materials shall be removed and backfilled with acceptable granular fill and compacted to 95% maximum density.
 - No footings, slabs-on-grade or walls shall be poured into or against subgrade containing free water, frost or ice.
 - All concrete shall have the minimum 28-day compressive strength and shall use the reinforcing grades shown in the Concrete Materials Schedule, Sheet S2.
 - All slabs-on-grade shall be placed over a vapor barrier over a minimum of 6" compacted granular material over a compacted soil subgrade.
 - See Plumbing drawings for underfloor drainage system and special granular fill materials.
 - See Civil drawing C1 for elevation references.
 - See Structural Concrete Notes, Sheets S3 and S4, for general concrete and reinforcing notes.
 - See Specification Section 2.2A, "Excavating, Filling and Grading," for further requirements.



FOUNDATION PLAN
SCALE: 3/32"=1'-0"
PROJECT: MONTGOMERY COLLEGE REDEVELOPMENT OF TAKOMA PARK CAMPUS
NOTES:
1. PLACE DOWELS TO MATCH WALL REINFORCEMENT IN SIZE, NUMBER AND SPACING WHERE FOUNDATION WALLS ARE SUPPORTED BY FOOTINGS.

NO.	DESCRIPTION	ISSUED
2	ISSUED FOR BIDDING	KW 08/87
1	ISSUED FOR OWNER'S REVIEW	KW 07/87

REVISIONS

NO.	DESCRIPTION	ISSUED

MONTGOMERY COLLEGE
REDEVELOPMENT OF TAKOMA PARK CAMPUS
TAKOMA PARK MARYLAND
PARKING GARAGE
FOUNDATION PLAN AND FOUNDATION DETAILS

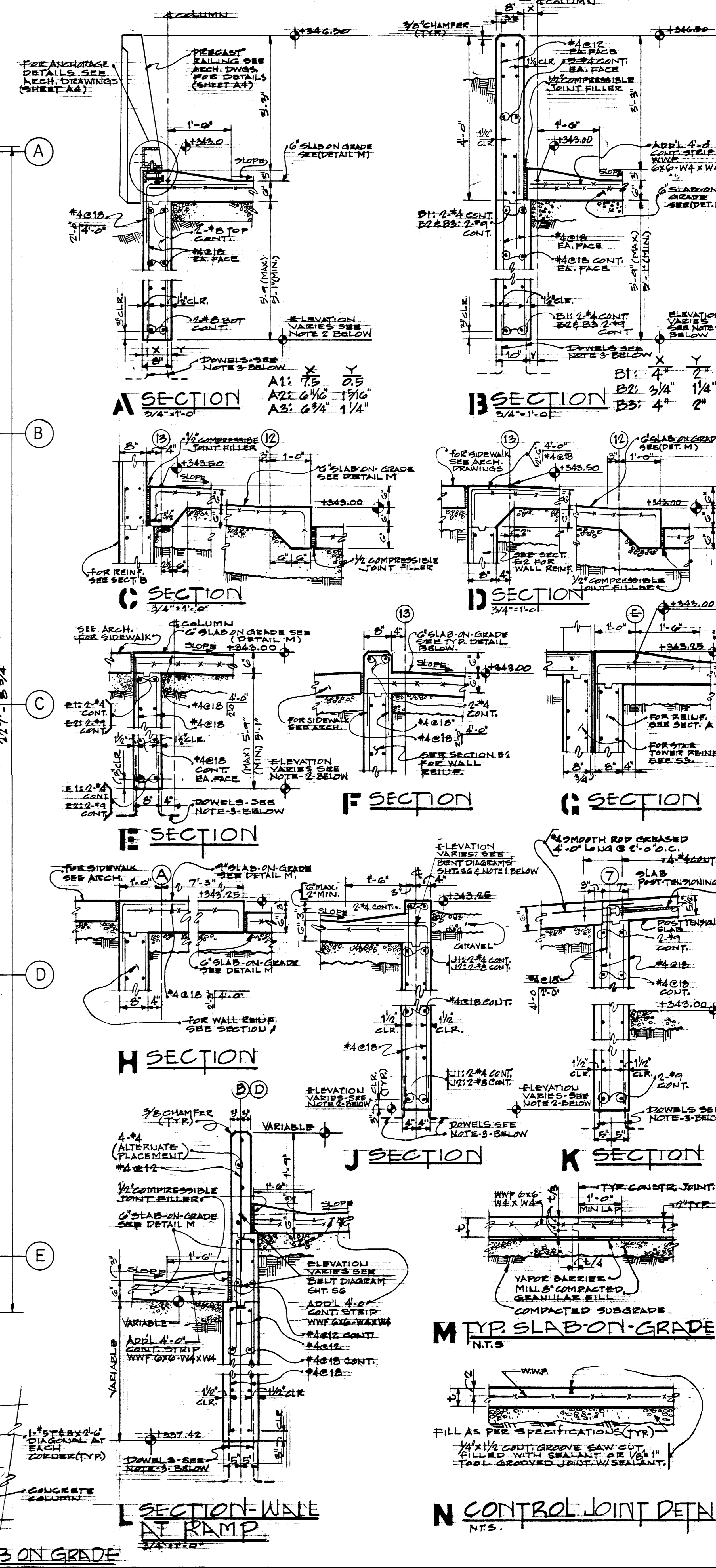
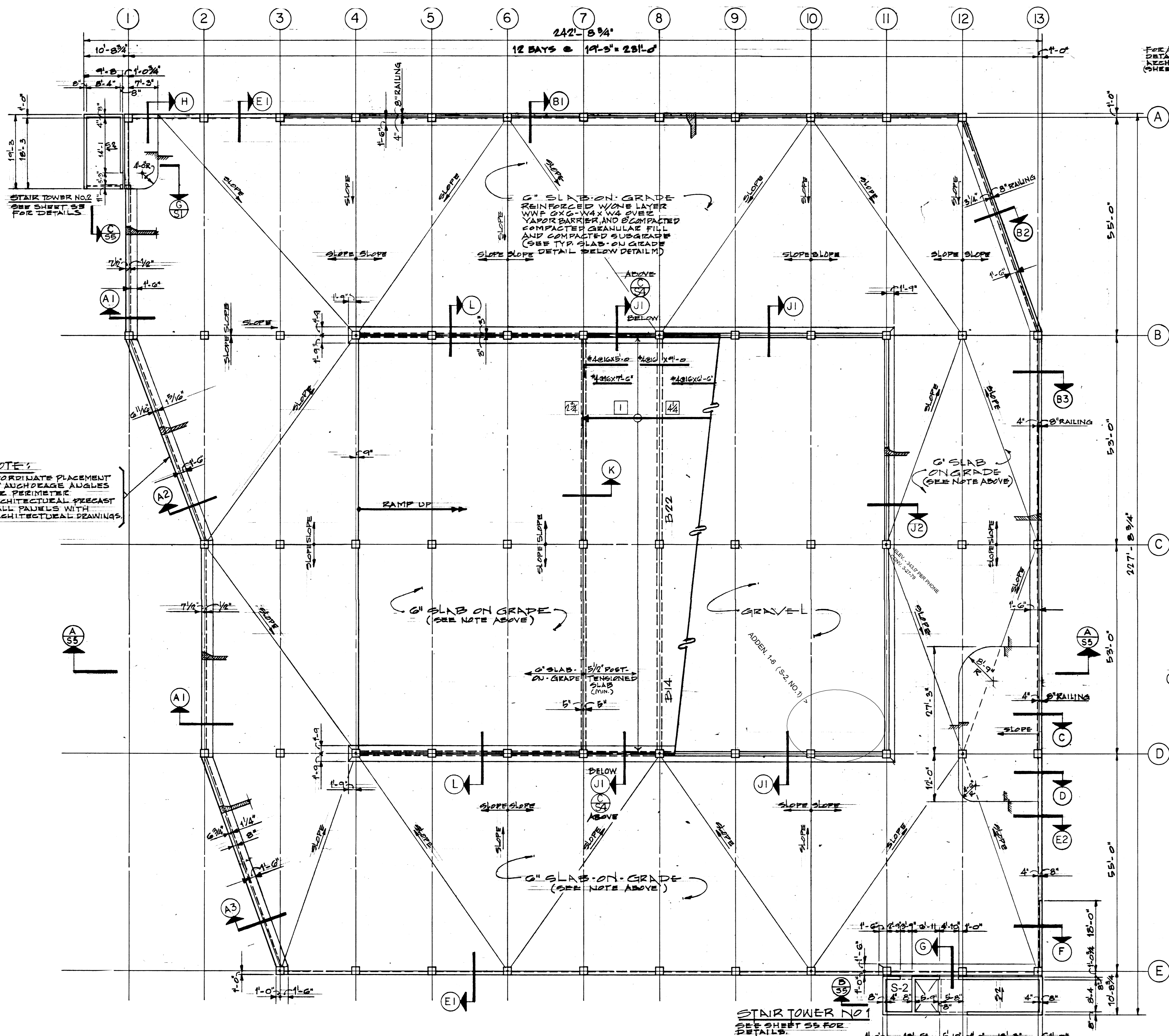
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 1 SEPT. 87

400 NUMBER: 6910
DRAWING NUMBER: 51

CONCRETE MATERIALS SCHEDULE:

CONCRETE:	
Footings and foundation walls, Stair tower walls and slabs, Slab-on-grade, Cast-in-place railings, Architectural precast railings	4000 PSI (Stone)
Post-tensioned beams and slabs, Columns	4500 PSI (Stone)
REINFORCING:	
Mild reinforcing steel:	ASTM A615, Grade 60
Prestressng steels:	ASTM A416, f _{pu} = 270 KSI (1/2" round strand - unbonded type)
Welded wire fabric:	ASTM A186

- ADDENDUM NO. 1-6**
1. ADD A 4" CONCRETE SLAB ON GRADE BETWEEN COLUMN LINES "10" & "11", EXTENDING 3" WEST OF COLUMN LINE "10" AND EXTENDING 8" NORTH FROM COLUMN LINE "D". REINFORCE WITH WWF 6 X 6 W4 X W4 AND TURN DOWN SLAB AT PERIMETER TO 6". SLAB ELEVATION AT +343.25
 2. NOTE ELEVATOR MACHINE ROOM FLOOR SLAB AT STAIR TOWER NO. 1 AS S-2.



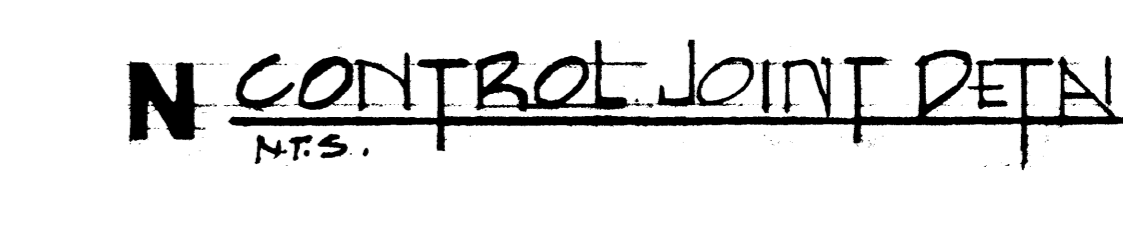
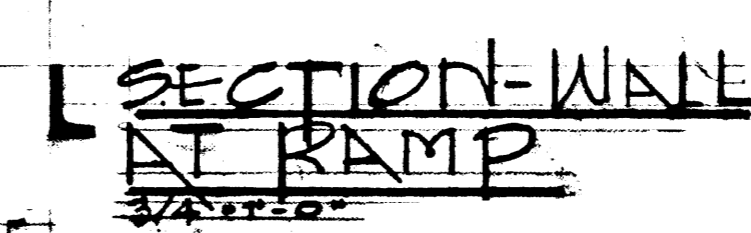
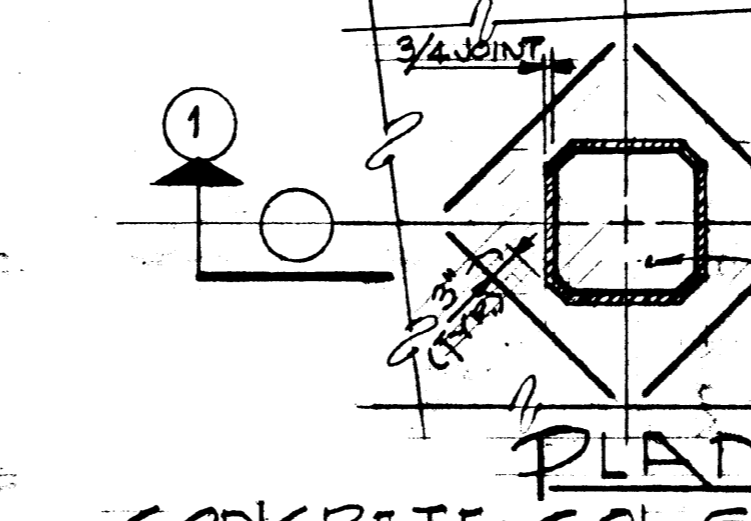
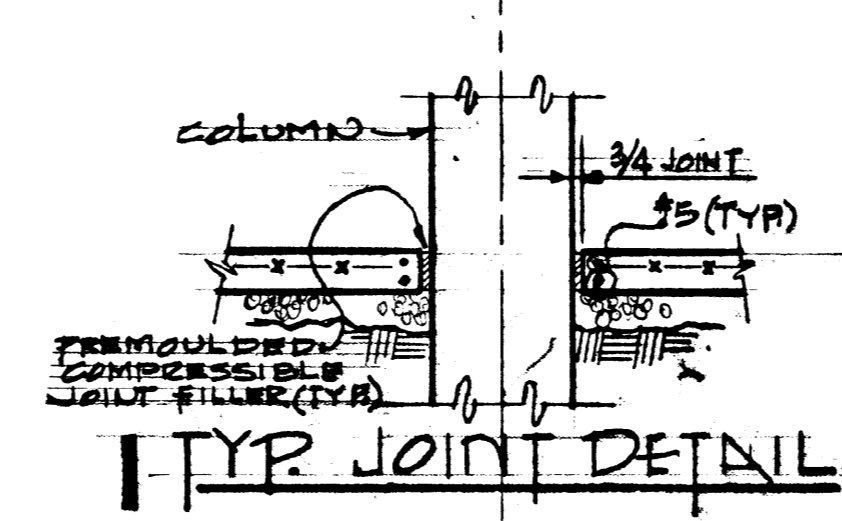
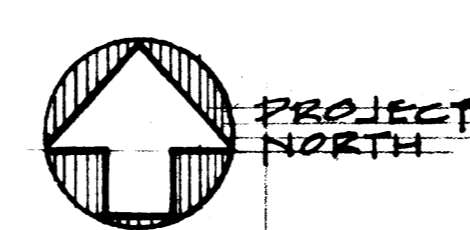
NOTE:
COORDINATE PLACEMENT OF ANCHORAGE ANGLES FOR PERIMETRIC ARCHITECTURAL PRECAST WALL PANELS WITH ARCHITECTURAL DRAWINGS.

LEVEL 1-FLOOR FRAMING PLAN

SCALE: 3/32" = 1'-0"

NOTES:

1. TOP OF STRUCTURAL SLAB AT PERIMETER +343.00. SEE BENT DIAGRAMS, SHEET S-6, FOR TOP OF STRUCTURAL SLAB AT INTERSECTION OF BEAM AND COLUMN CENTERLINES EXCLUDING SLAB CHAMFERS AND BLENDS.
2. BOTTOM OF FOUNDATION WALL SLOPES AS NECESSARY TO OPEN BETWEEN ADJACENT FOOTINGS. SEE FOUNDATION PLAN, SHEET S-1, FOR W/F TA ELEVATIONS.
3. DOWELS TO MATCH WALL REINFORCEMENT IN SIZE, NUMBER AND SPACING TAKEN FROM FOUNDATION WALL SUPPORTED BY FOOTING.



ADDENDUM NO. 1-6

1	ISSUED FOR BIDDING	10-11-78
2	ISSUED FOR OWNER'S REVIEW	KW 10/11/78
NO.	DESCRIPTION	BY / DATE

REVISIONS

MONTGOMERY COLLEGE
REDEVELOPMENT OF TAKOMA PARK CAMPUS
TAKOMA PARK MARYLAND
PARKING GARAGE

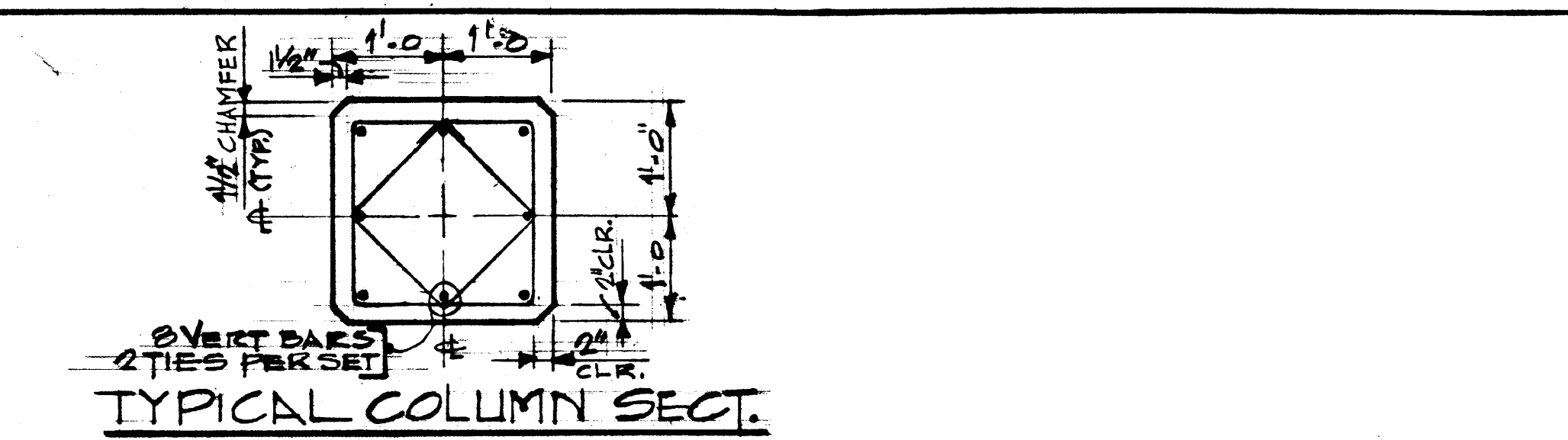
LEVEL I PLAN AND LEVEL I DETAILS

DESIGNED BY	DATE	CHECKED BY	DATE
SCALE	3/32" = 1'-0"	JOB NUMBER	6910
DATE	1 SEPT. 78	DRAWING NUMBER	52

STRUCTURAL CONCRETE NOTES

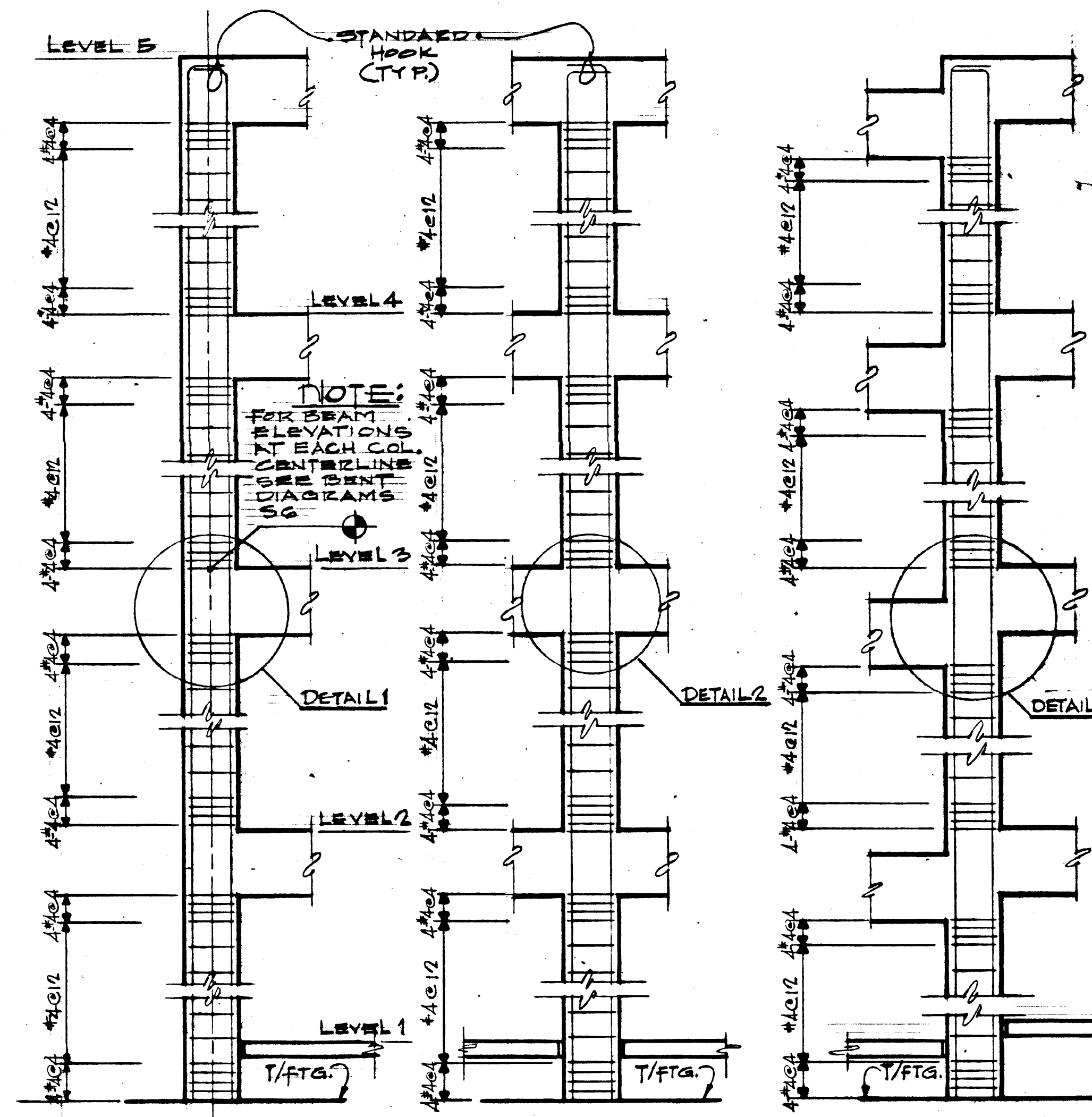
- All concrete shall have a minimum 28-day compressive strength as shown on the Concrete Materials Schedule, Sheet S2.
- All concrete shall contain an approved water reducing plasticizing admixture. All concrete permanently exposed to the weather shall contain an approved air-entraining admixture.
- All reinforcing bars shall be new billet steel conforming to the Standards of ASTM A615-Grade 60.
- All welded wire fabric shall conform to the Standards of ASTM A188.
- All concrete reinforcement shall be detailed, fabricated, labeled, supported and spaced in forms as secured in place in accordance with the procedure and requirements outlined in the latest edition of the "Building Code Requirements for Reinforced Concrete", ACI 318 and the "Manual of Standard Practice for Detailing Reinforced Concrete Structures", ACI 315.
- Checked shop drawings showing reinforcing details, including steel sizes, spacing and placement, shall be submitted to the Architect for approval prior to fabrication.
- The Contractor shall submit detailed drawings showing the locations of all construction joints, curbs and slab depressions.
- All reinforcing splices shall conform to the requirements of Chapter 7, ACI 318-77, but in no case shall be less than 36 diameters unless noted otherwise.
- All welded wire fabric shall be lapped two (2) full mesh panels and tied securely.
- Where required, dowels shall match size and number of main reinforcing.
- All walls and structural slabs shall be reinforced with at least #4 @ 12 each way, each face, unless noted otherwise. All slabs-on-grade shall be reinforced with at least one (1) layer of 6x6-W4.4 x W1.4 W.W.F. unless noted otherwise. Provide one (1) layer of 6x6-W1.4 x W1.4 W.W.F. continuous in all concrete fills above the structural slab. All mechanical, plumbing and electrical equipment pads shall be reinforced with at least one (1) layer of 6x6-W1.4 x W1.4 W.W.F. (See Plumbing and Electrical drawings for additional reinforcing requirements of pads.)
- Additional bars shall be provided around all floor and wall openings as detailed.
- Construction joints in all walls, slabs and beams shall not be further apart than 60 feet in any direction, unless noted otherwise.
- All construction joints shall be wire brushed and cleaned immediately prior to pouring new concrete.
- Pour all slabs-on-grade in a checkerboard fashion between construction joints in areas not to exceed 1,800 sq. ft. with a minimum of 24 hours between adjacent pours.
- Allow a minimum of three (3) hours between column, wall and adjacent floor pours.
- No calcium chloride shall be used in any concrete without the Architect's prior review.
- See Architectural drawings for type and location of all floor finishes.
- See Electrical and Plumbing drawings for additional wall/slab openings.

Continued on Sheet S4.

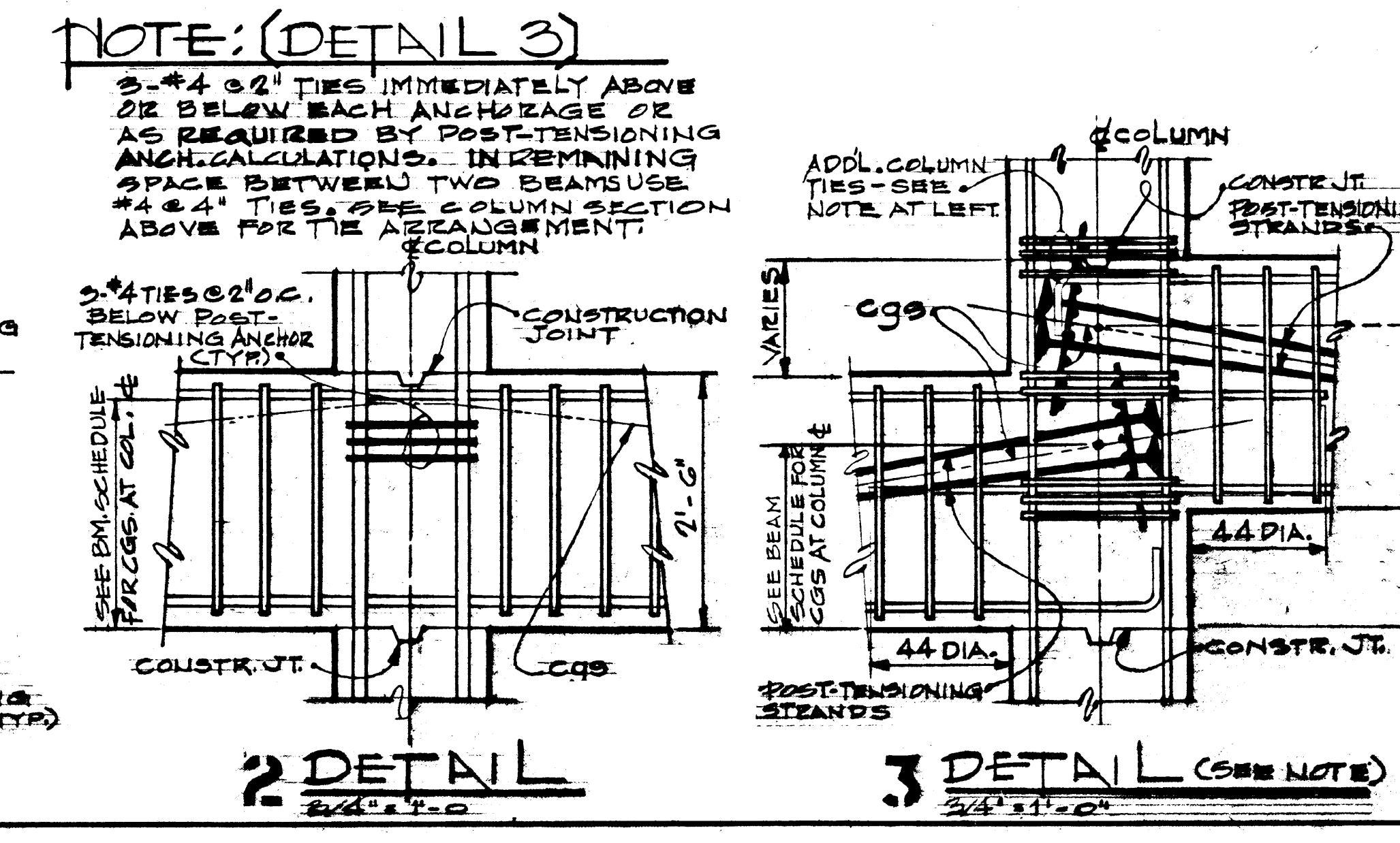


COLUMN MARK	A1 THRU A2		B1 THRU B3		C2 THRU C4		C5 THRU C6	
	SIZE	VERTICAL REIN.	SIZE	VERTICAL REIN.	SIZE	VERTICAL REIN.	SIZE	VERTICAL REIN.
LEVEL 5	24x24	8*11	24x24	8*11	24x24	8*8		
LEVEL 4		8*9		8*9		8*8	24x24	8*8
LEVEL 3		8*9		8*8		8*8		8*8
LEVEL 2		8*8		8*8		8*8		8*8
LEVEL 1		8*8		8*8		8*8		8*8
T/FTG.		8*8		8*8		8*8		8*8

$f'_c = 4000 \text{ PSI (STD)}$
 $f_y = 60 \text{ KSI}$



A EXTERIOR COLUMN B INTERIOR COLUMN C INTERIOR COLUMN
COLUMN ELEVATIONS



NOTE: (DETAIL 3)

3-#4 @ 2' TIES IMMEDIATELY ABOVE OR BELOW EACH ANCHORAGE OR AS REQUIRED BY POST-TENSIONING ANCHORAGE CONDITIONS. IN REMAINING SPACE BETWEEN TWO BEAMS USE #4 @ 4' TIES. SEE COLUMN SECTION ABOVE FOR THE ARRANGEMENT OF COLUMN.

3-#4 TIES @ 2'-0" BELOW POST-TENSIONING ANCHOR (TYP.)

CONSTRUCTION JOINT

ADJ. COLUMN TIES - SEE NOTE AT LEFT

CONSTR. JT. POST-TENSIONING STRANDS

VARIES - SEE SCHEDULE

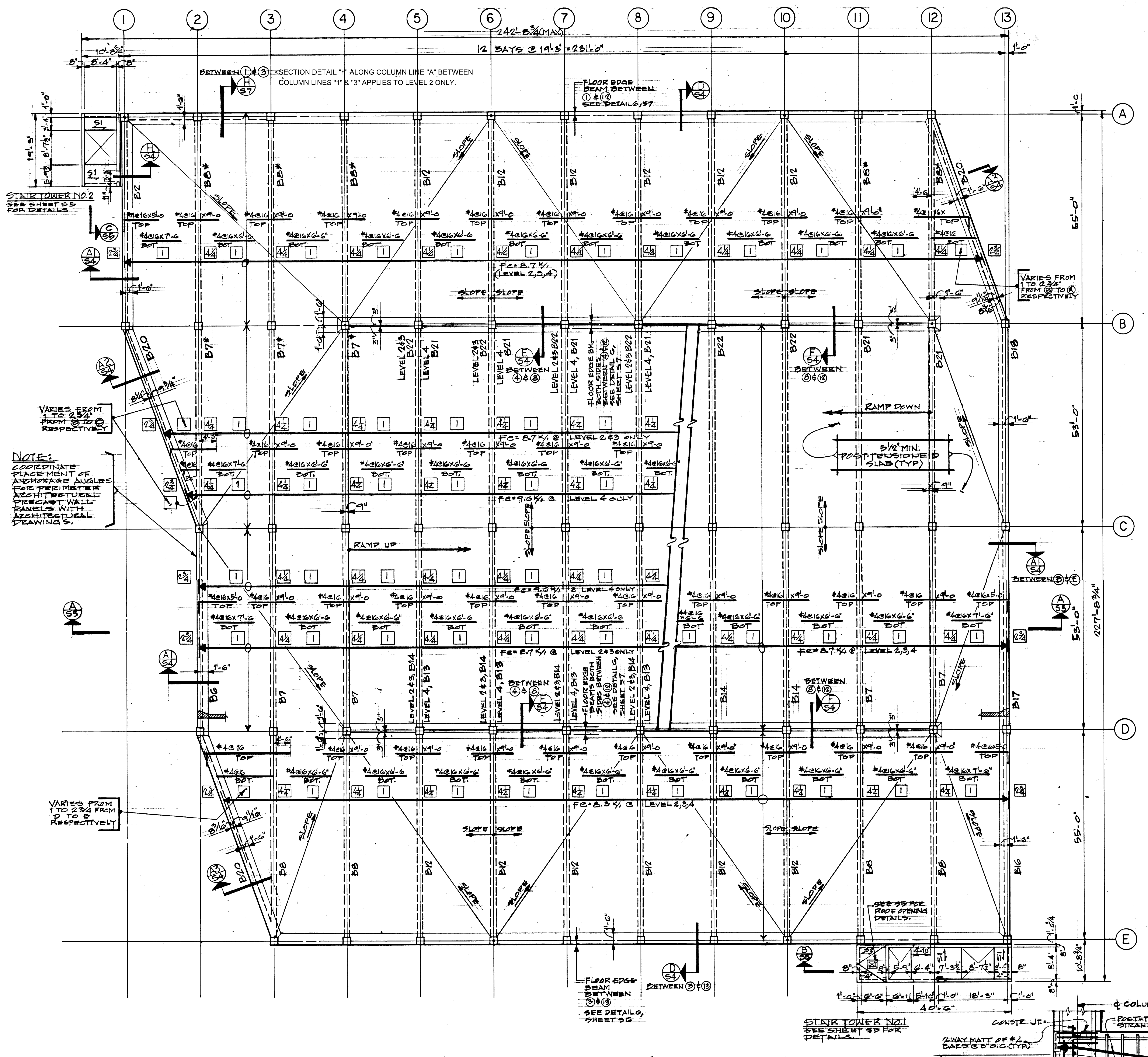
SEE BEAM SCHEDULE FOR BEAM AT COLUMN

SEE BEAM SCHEDULE FOR BEAM AT COLUMN

CONSTR. JT.

CONSTR. JT.

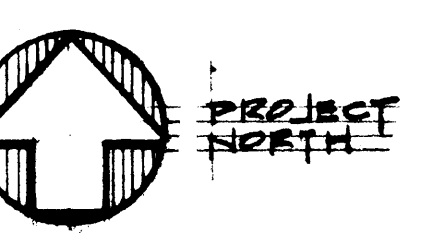
CONSTR. JT.



LEVELS 2, 3 & 4 - TYPICAL FLOOR FRAMING PLAN

SCALE: 3/32" = 1'-0"

- NOTES:**
- TOP OF STRUCTURAL SLAB AT PERIMETER: LEVEL 2 = +352.50, LEVEL 3 = +352.00, LEVEL 4 = +371.30
 - SEE BENT DIAGRAMS, SHEET S6, FOR TOP OF STRUCTURAL SLAB AT INTERSECTION OF BEAM AND COLUMN CENTERLINES EXCLUDING SLAB CURBS AND BLEEDS.



NOTES:
COORDINATE PLACEMENT OF ANCHORAGE ANGLES FOR PERIMETER ARCHITECTURAL PANELS WITH ARCHITECTURAL DRAWINGS.

VARIES FROM 1 TO 2 3/4 FROM (A) TO (E) RESPECTIVELY

STAIR TOWER NO. 2
SEE SHEET S5 FOR DETAILS

SECTION DETAIL "H" ALONG COLUMN LINE "A" BETWEEN COLUMN LINES "1" & "3" APPLIES TO LEVEL 2 ONLY.

VARIES FROM 1 TO 2 3/4 FROM (A) TO (E) RESPECTIVELY

VARIES FROM 1 TO 2 3/4 FROM (A) TO (E) RESPECTIVELY

VARIES FROM 1 TO 2 3/4 FROM (A) TO (E) RESPECTIVELY

REVISIONS

NO.	DESCRIPTION	BY	DATE	ISSUED
1	ISSUED FOR BIDDING	KW	10/17/78	
2	ISSUED FOR OWNER'S REVIEW	KW	10/17/78	

MONTGOMERY COLLEGE
REDEVELOPMENT OF TAKOMA PARK CAMPUS

TAKOMA PARK, MARYLAND

PARKING GARAGE

LEVELS 2, 3 & 4 PLAN AND COLUMN DETAILS

T. GR. S-03-16

JOB NUMBER: 6910

DATE: 10/17/78

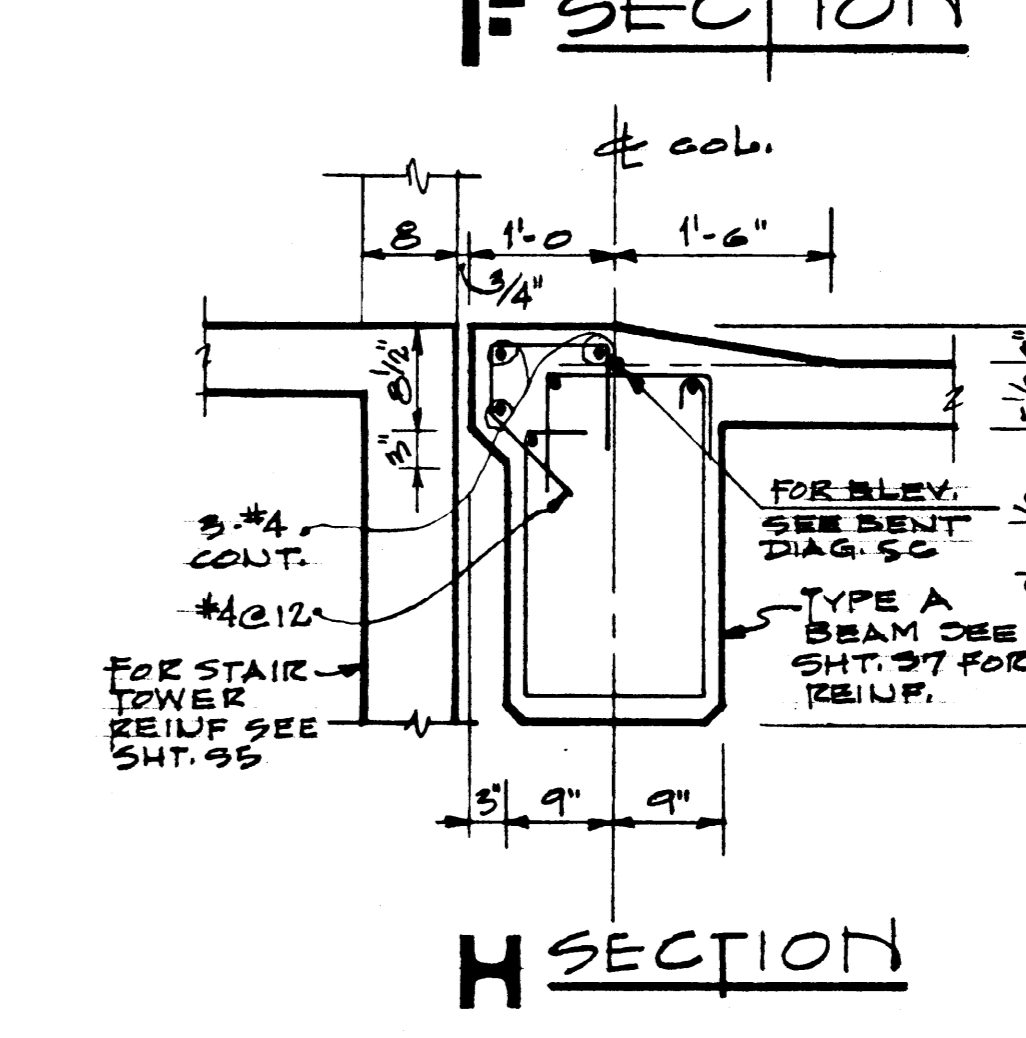
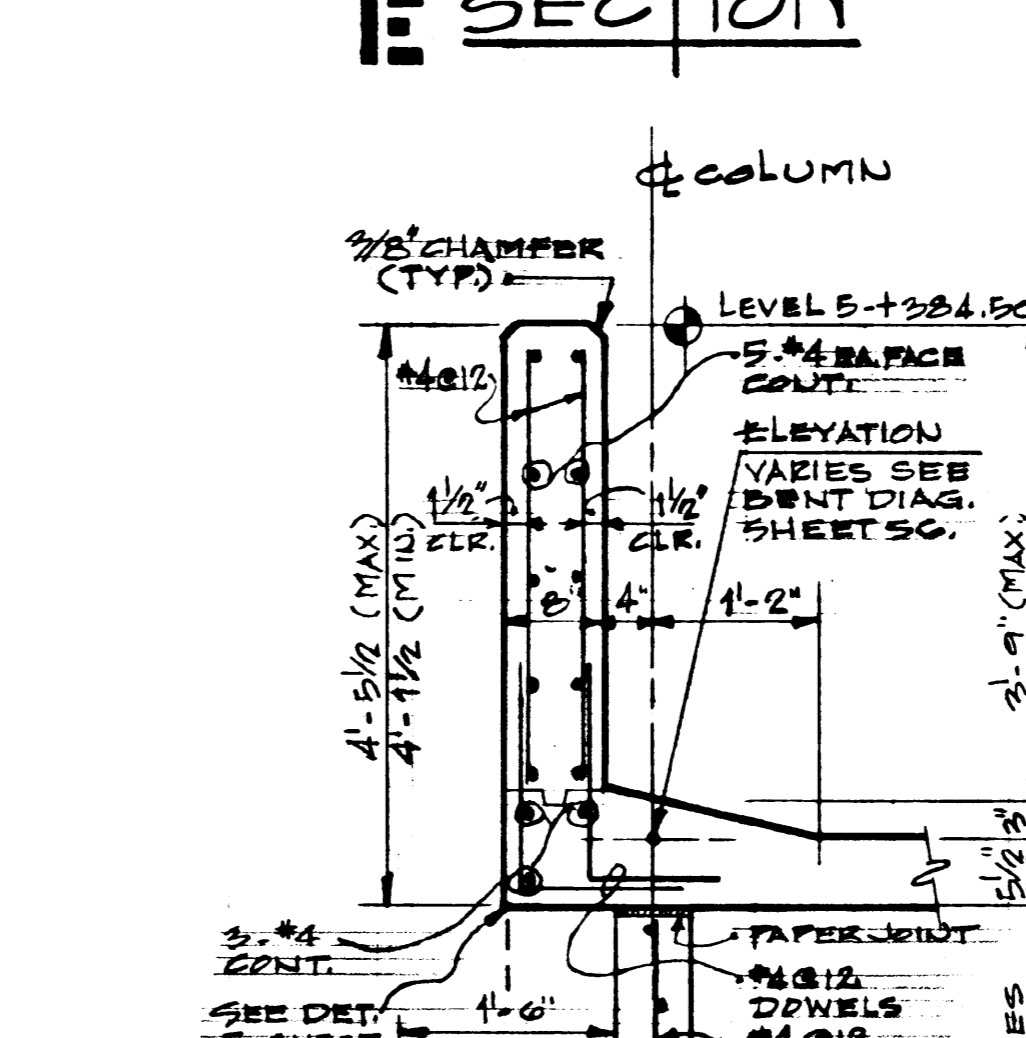
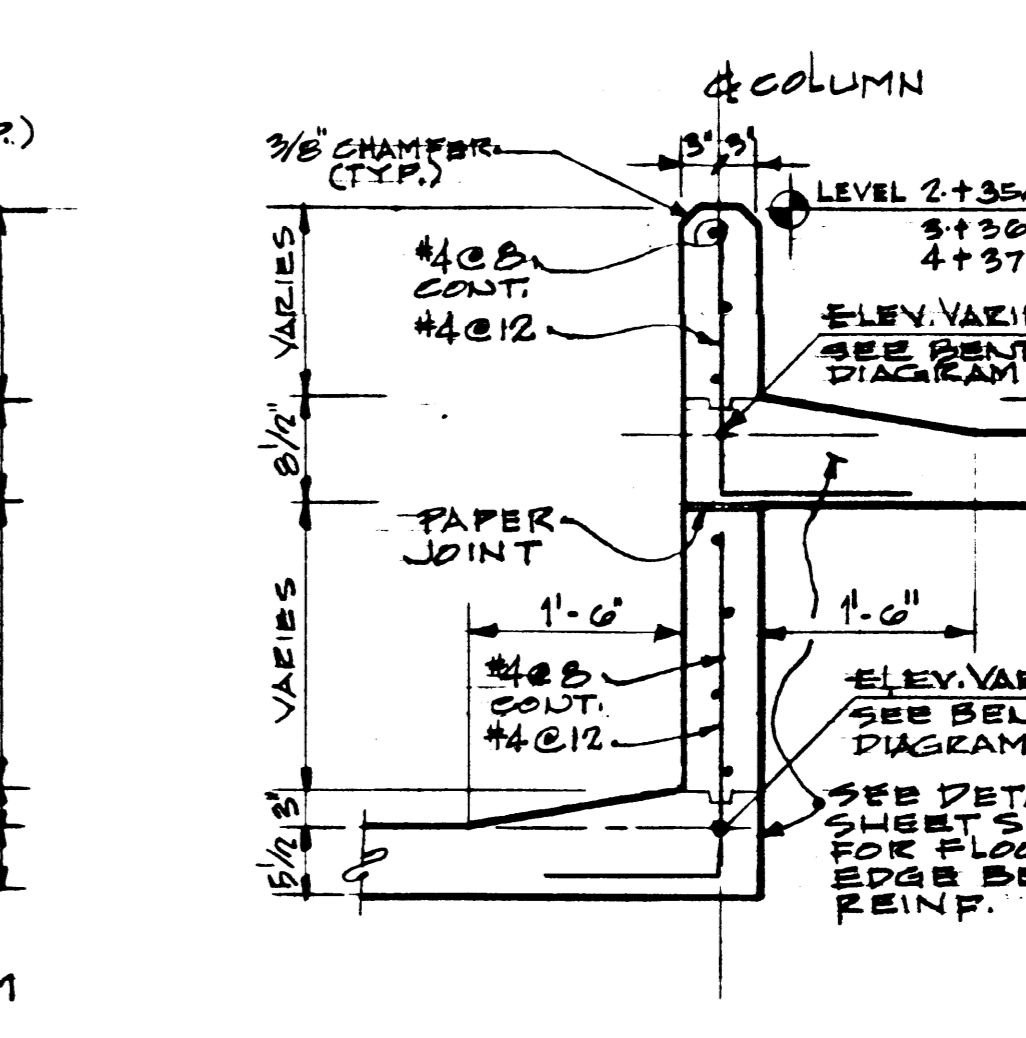
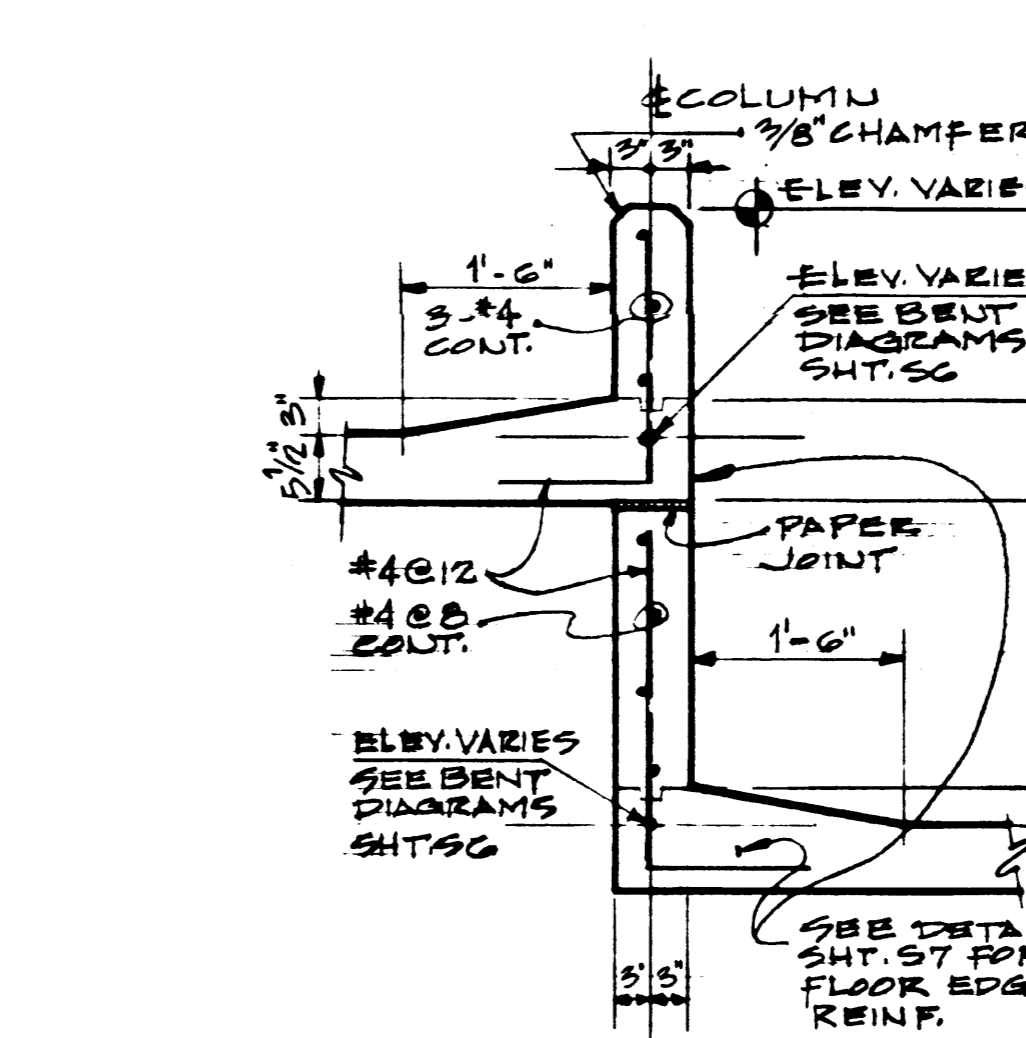
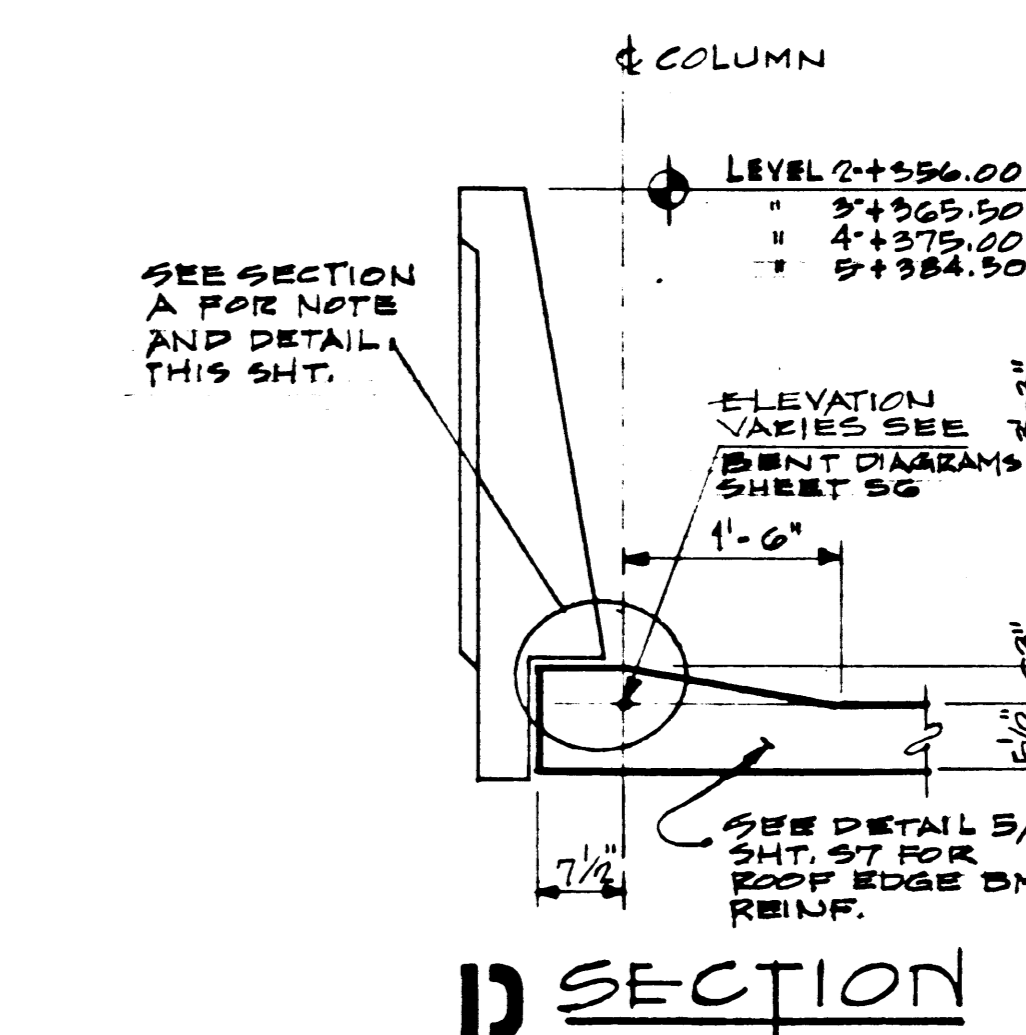
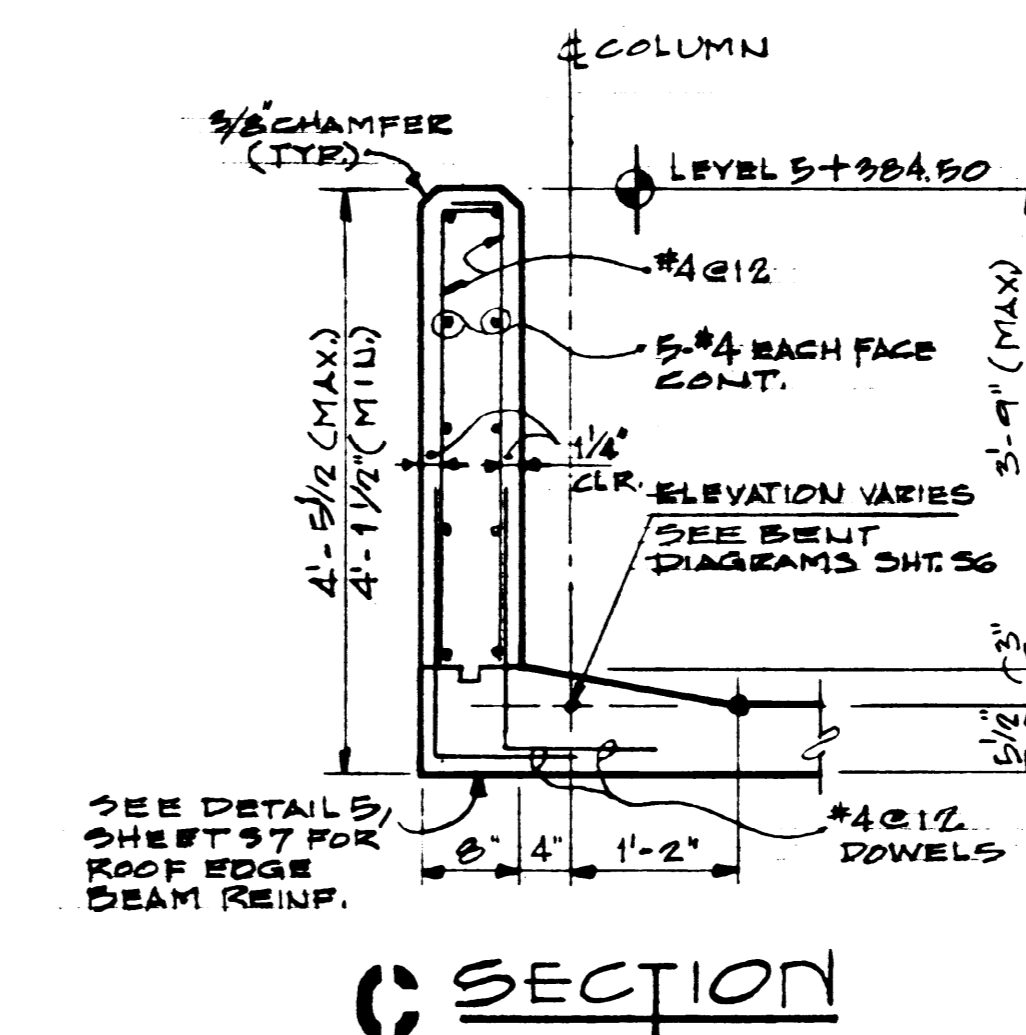
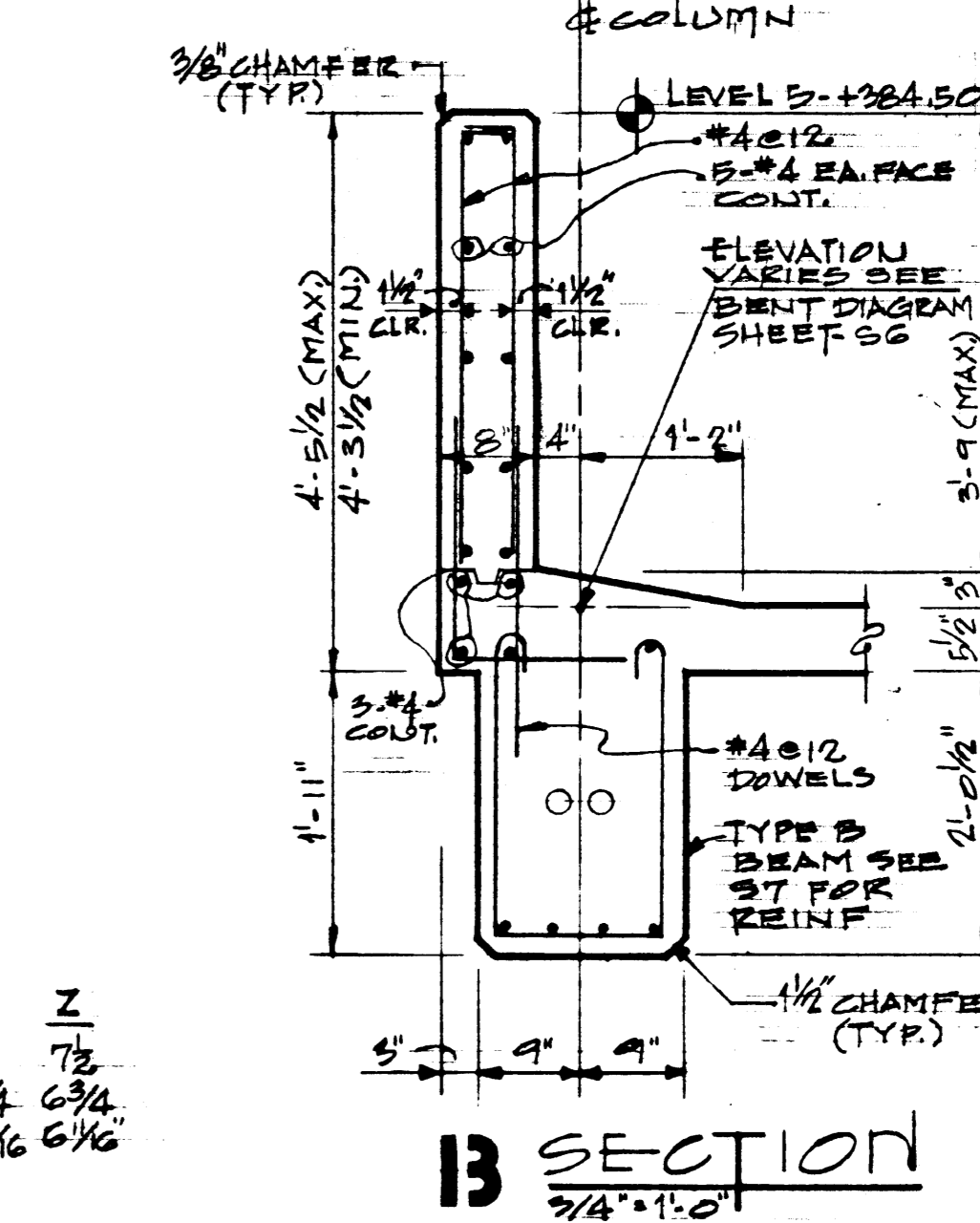
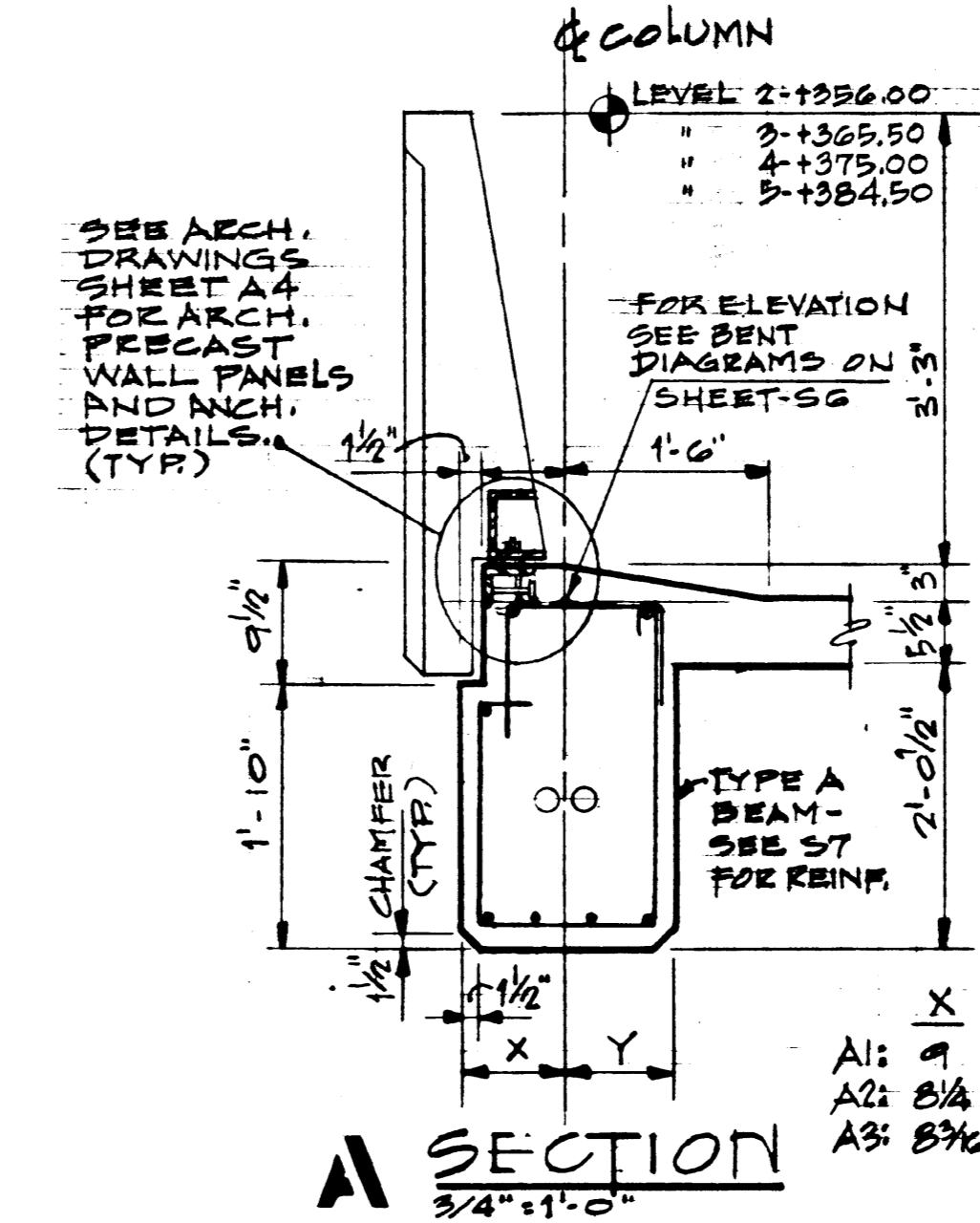
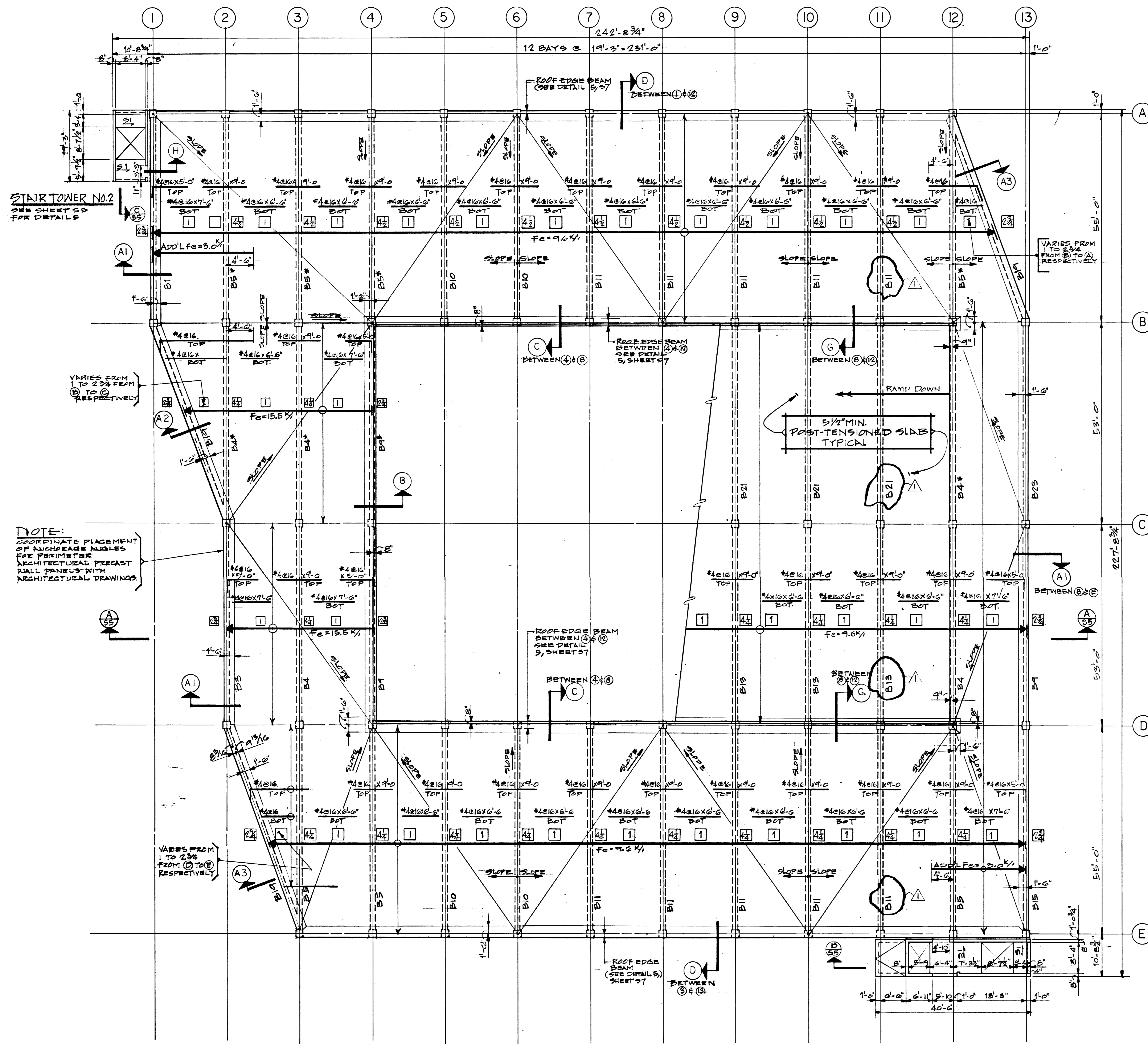
SCALE: 3/32" = 1'-0"

10/27/78

93

STRUCTURAL CONCRETE NOTES (Continued from Sheet 53B)

- Refer to specifications for criteria for stripping forms and reshoring. The Contractor shall submit to the Architect proposals for all procedures and sequences for formwork stripping and reshoring systems.
- Bar supports in contact with exposed surfaces shall be plastic tipped.
- Beams and beam reinforcements shall not be sleeved or otherwise interrupted except as shown on the structural drawings or as approved in writing by the Architect.
- The Plumbing and Mechanical Contractor shall submit shop drawings showing all points of hung or otherwise supported equipment giving details of attachment and total loads applied.
- See Specification Sections 3.1A, 3.1A1, 3.1B, 3.1C, 3.1D, 3.1E and 3.1H for further concrete requirements.



NOTE:
COORDINATE PLACEMENT OF NICHES AND ANGLES FOR PERIMETER PRECAST WALL PANELS WITH ARCHITECTURAL DRAWINGS.

LEVEL 5-ROOF FRAMING PLAN
SCALE: 3/32"=1'-0"

NOTES:
1. TOP OF STRUCTURAL SLAB AT PERIMETER: LEVEL 5 +281.00
2. SEE BENT DIAGRAMS, SHEET 53C FOR TOP OF STRUCTURAL SLAB AT INTERSECTION OF BEAM AND COLUMN CENTRELINES EXCLUDING SLAB CHAMFERS.

NO.	DESCRIPTION	BY DATE	ISSUED
1	REVISED AS NOTED	KW 7/17/78	
2	ISSUED FOR BIDDING	KW 8/27/78	
3	ISSUED FOR OWNER'S REVIEW	KW 10/27/78	

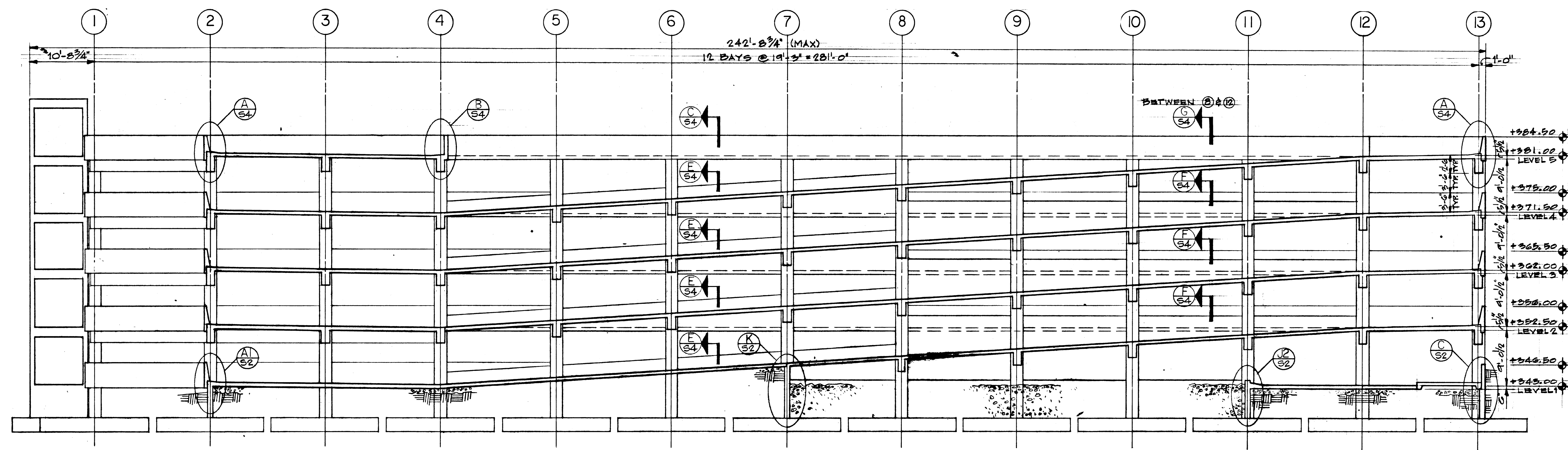
REVISIONS

MONTGOMERY COLLEGE
REDEVELOPMENT OF TAKOMA PARK CAMPUS
TAKOMA PARK MARYLAND
PARKING GARAGE

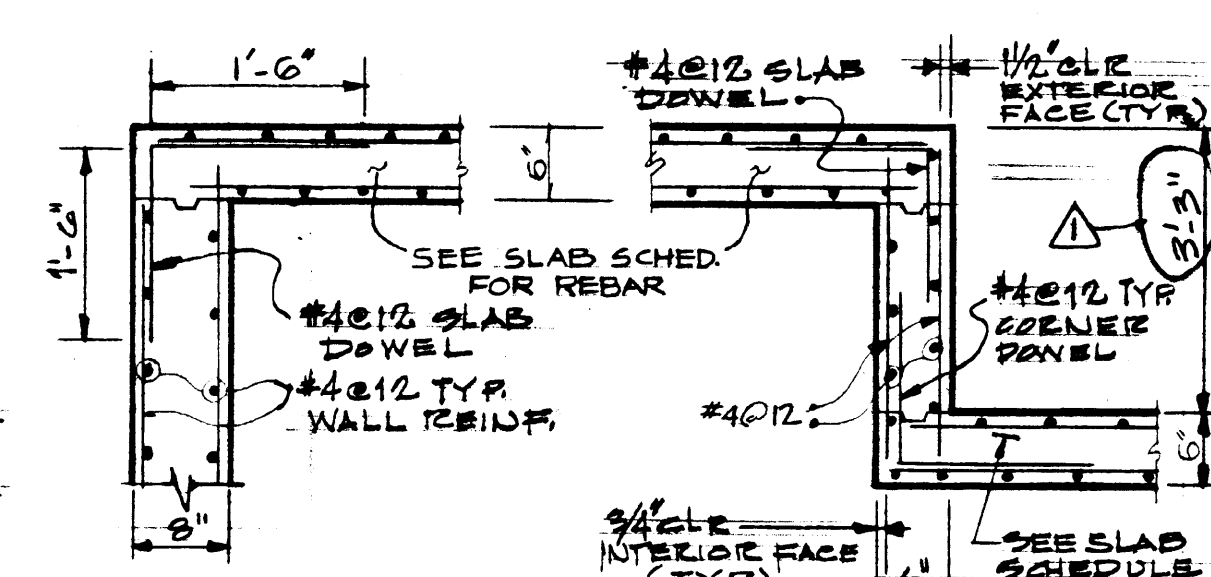
LEVEL 5 PLAN AND RAILING DETAILS

DATE: 7/17/78	SCALE: 3/32"=1'-0"	JOB NUMBER: 6710	DRAWING NUMBER: 54
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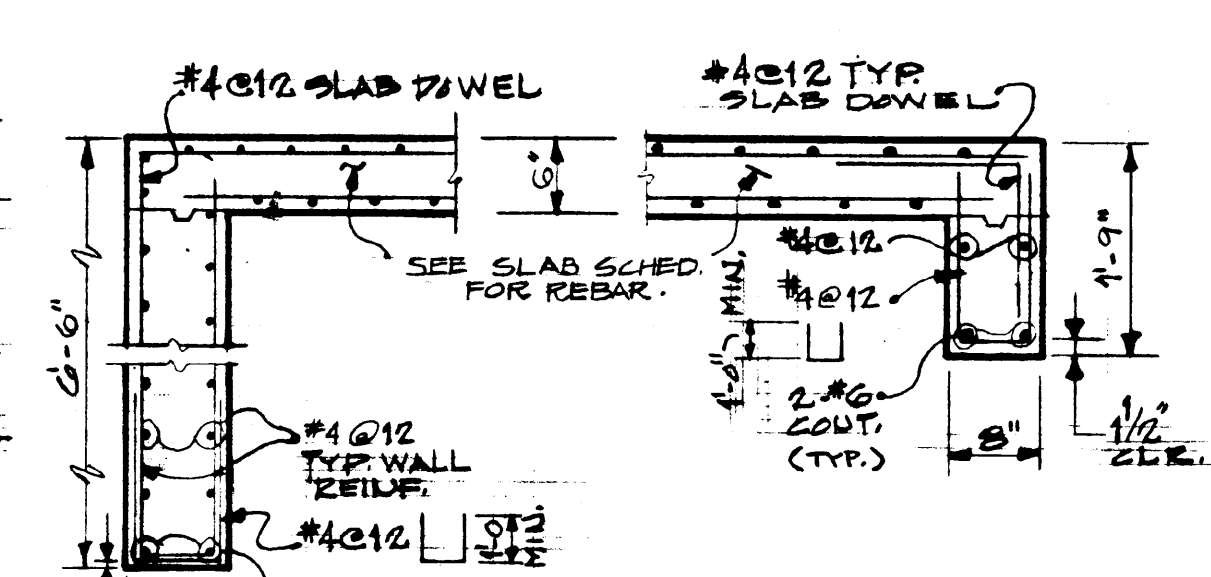
T.G.R. 5-04.RC



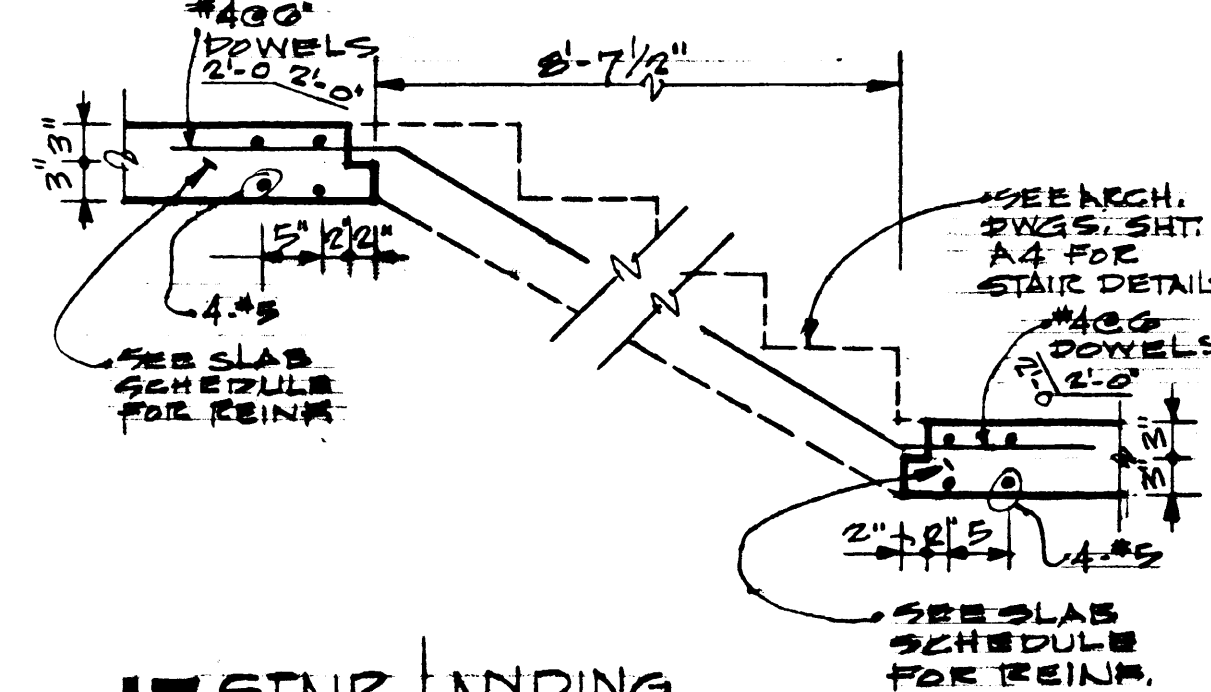
A SECTION
SCALE: 1/8" = 1'-0"
NOTES:
SEE BENT DIMENSIONS SHEET 50 FOR TOP OF STRUCTURE.
SLAB AT INTERSECTION OF BEAM AND COLUMN CENTERLINES EXCLUDING SLAB CUTS AND BLENDS.



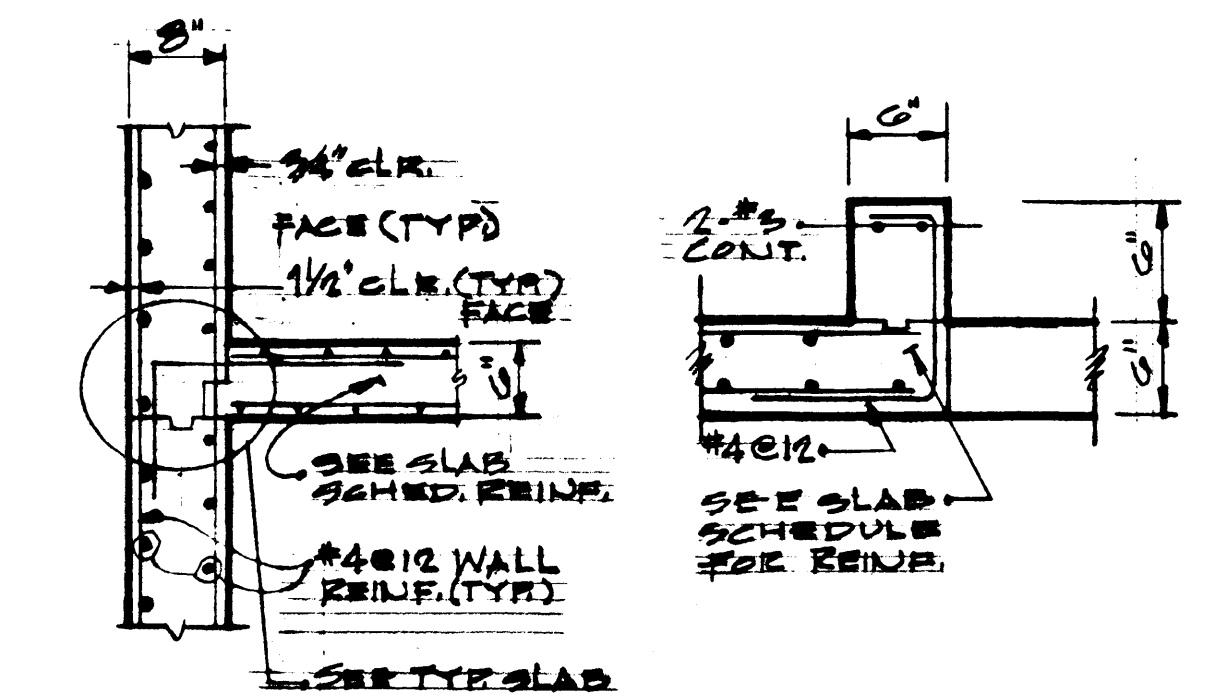
9 DETAIL 10 DETAIL



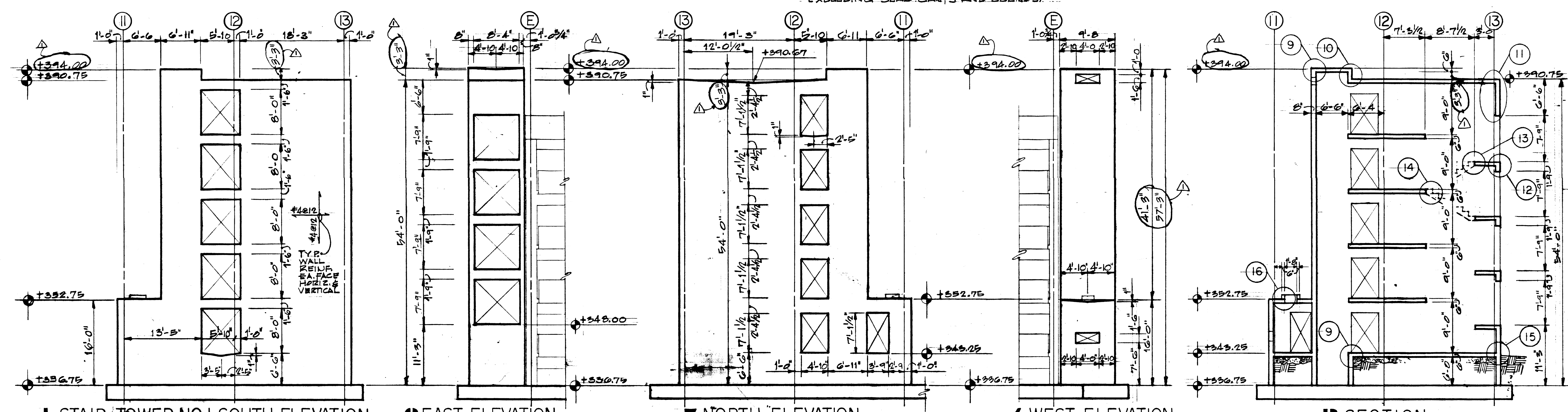
11 DETAIL 12 DETAIL



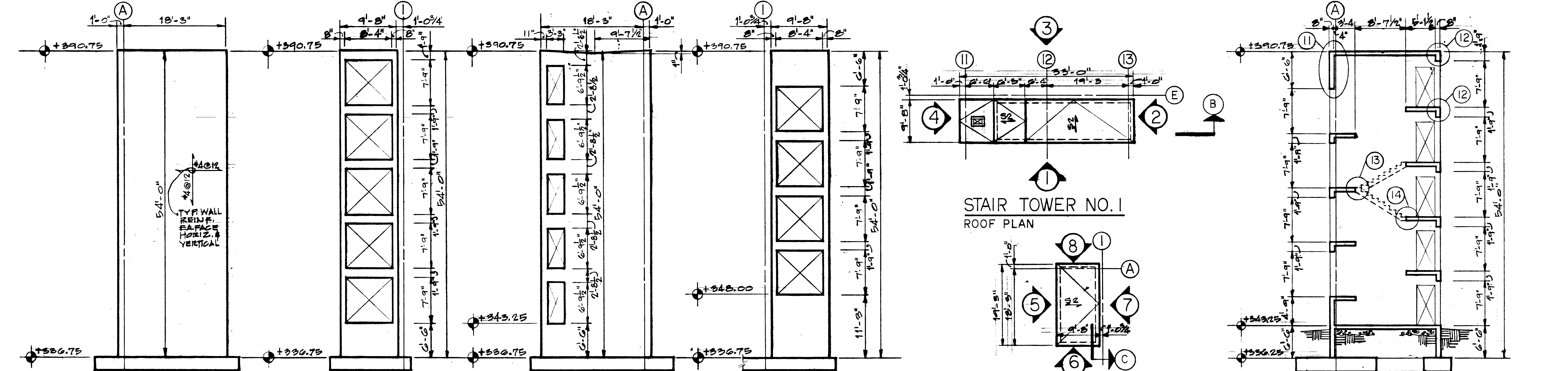
13 STAIR LANDING DETAIL 14 STAIR LANDING DETAIL



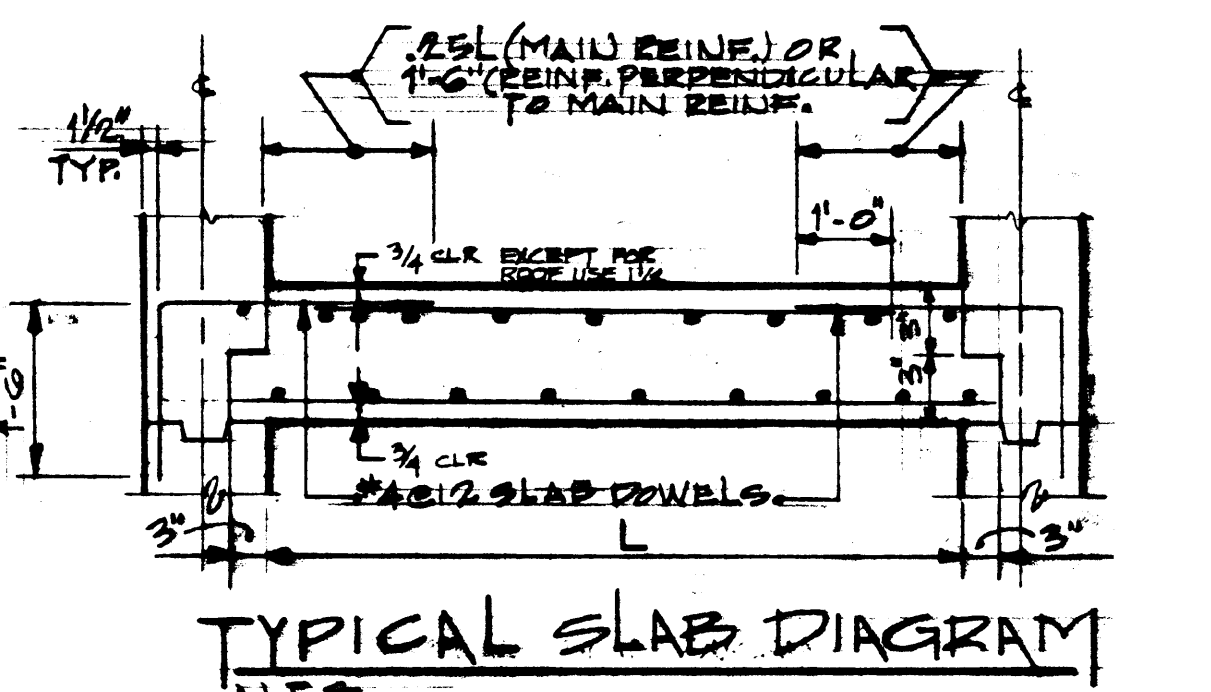
15 DETAIL 16 CONCRETE CORE DETAIL



1 STAIR TOWER NO. 1 SOUTH ELEVATION 2 EAST ELEVATION 3 NORTH ELEVATION 4 WEST ELEVATION 13 SECTION
SCALE: 1/8" = 1'-0"



5 STAIR TOWER NO. 2 WEST ELEV. 6 SOUTH ELEVATION 7 EAST ELEVATION 8 NORTH ELEVATION 14 STAIR TOWER NO. 2 ROOF PLAN 15 SECTION
SCALE: 1/8" = 1'-0"



TYPICAL SLAB DIAGRAM

NOTES:
SEE TYPICAL SLAB OR WALL OPENING DETAIL SHEET 57 FOR ADDITIONAL REINFORCEMENT.

STAIR TOWER SLAB SCHEDULE		
MARK	DEPTH	REMARKS
S1	6"	#4012 TOP & BOTTOM FOR ADDL. REINFORCEMENT DETAIL 13&14
S2	6"	#4012 TOP & BOTTOM

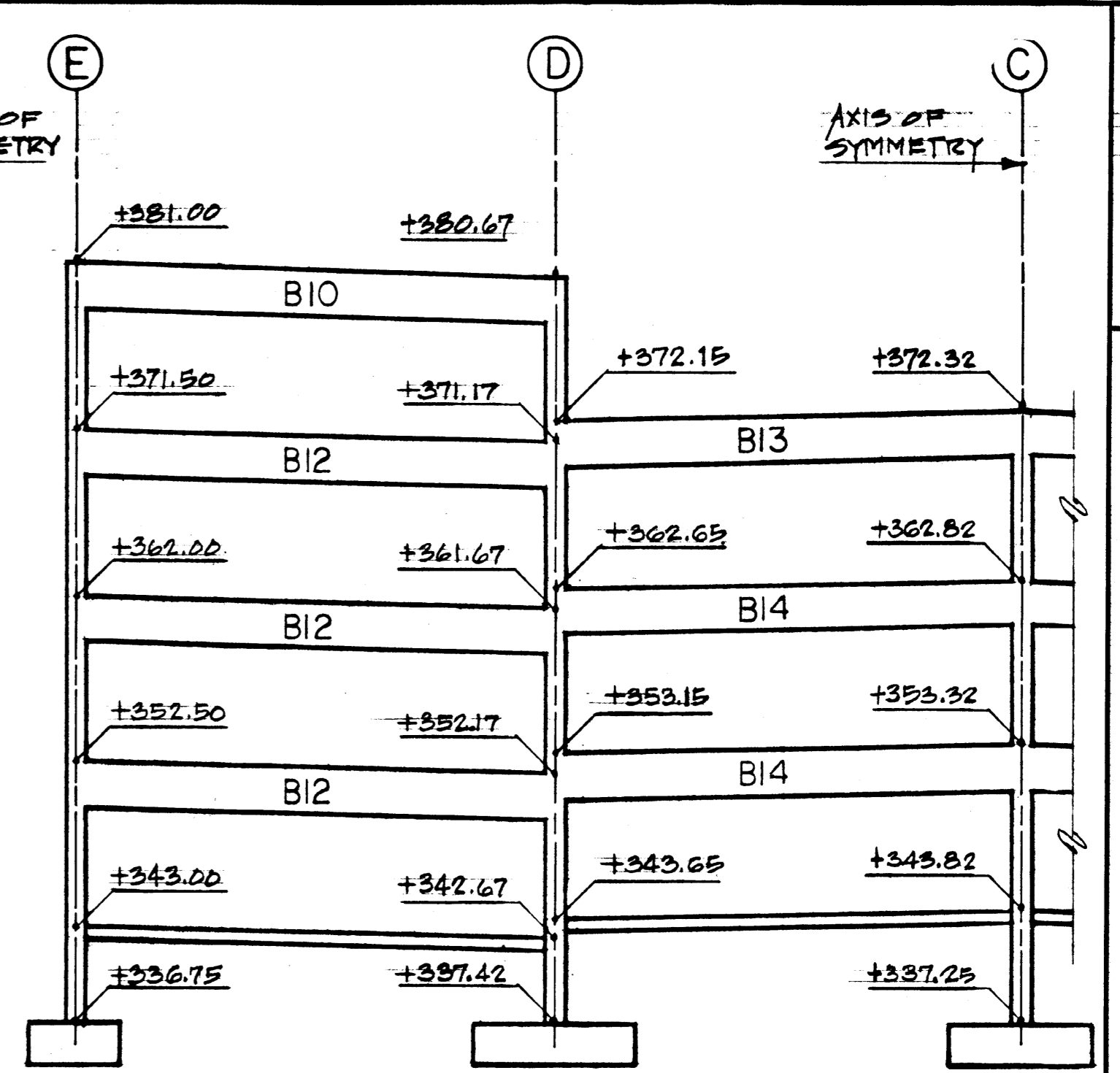
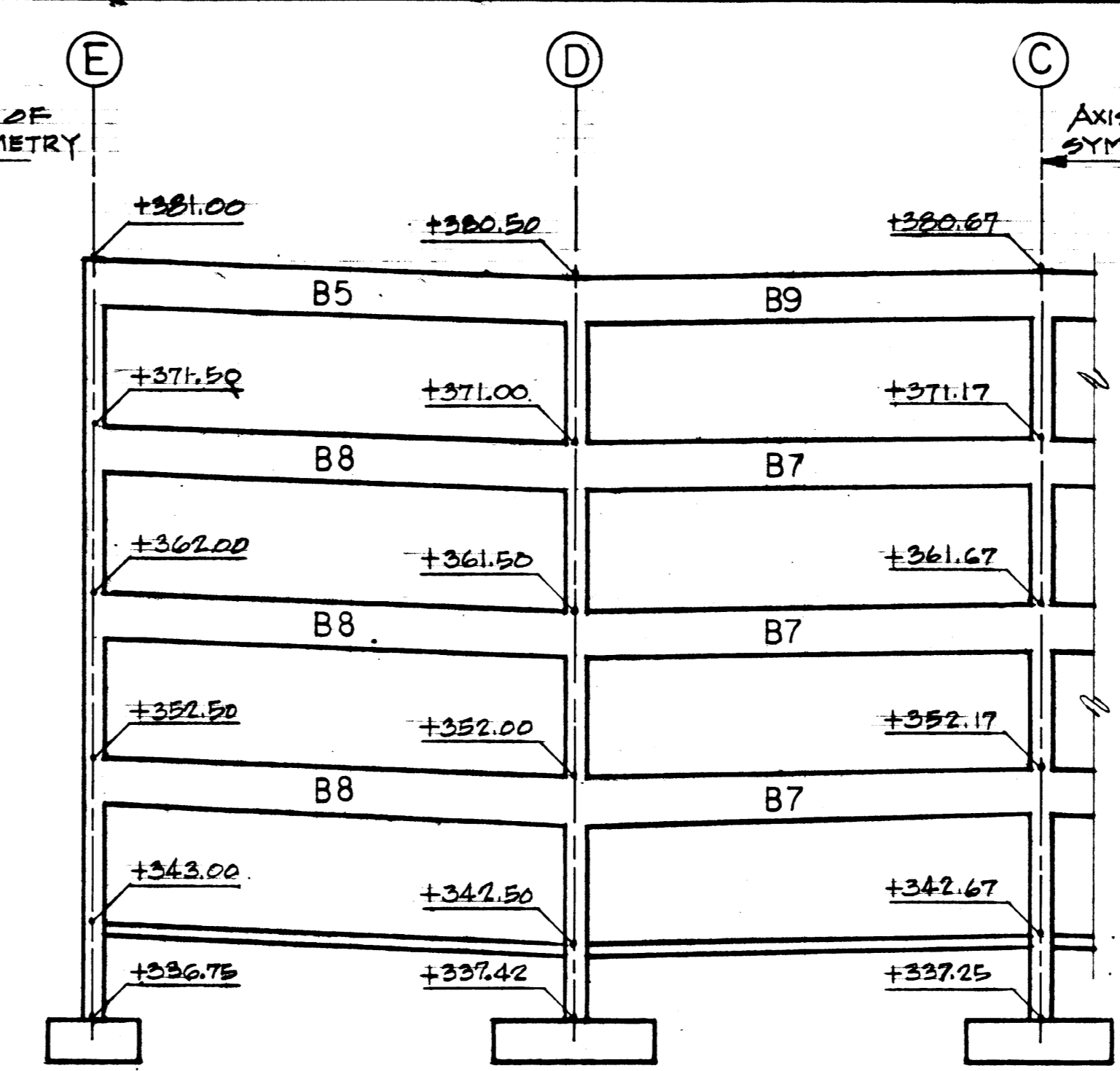
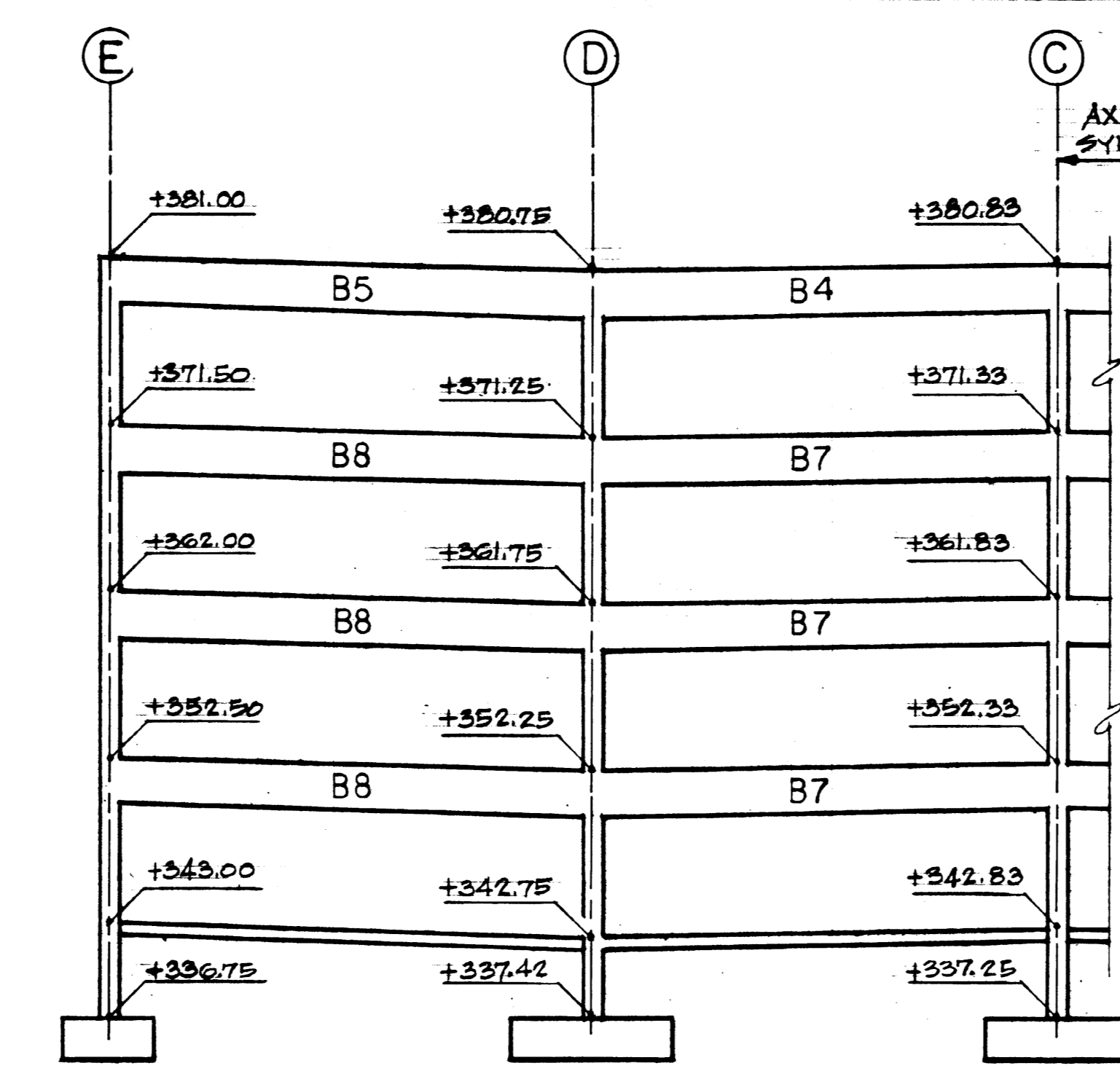
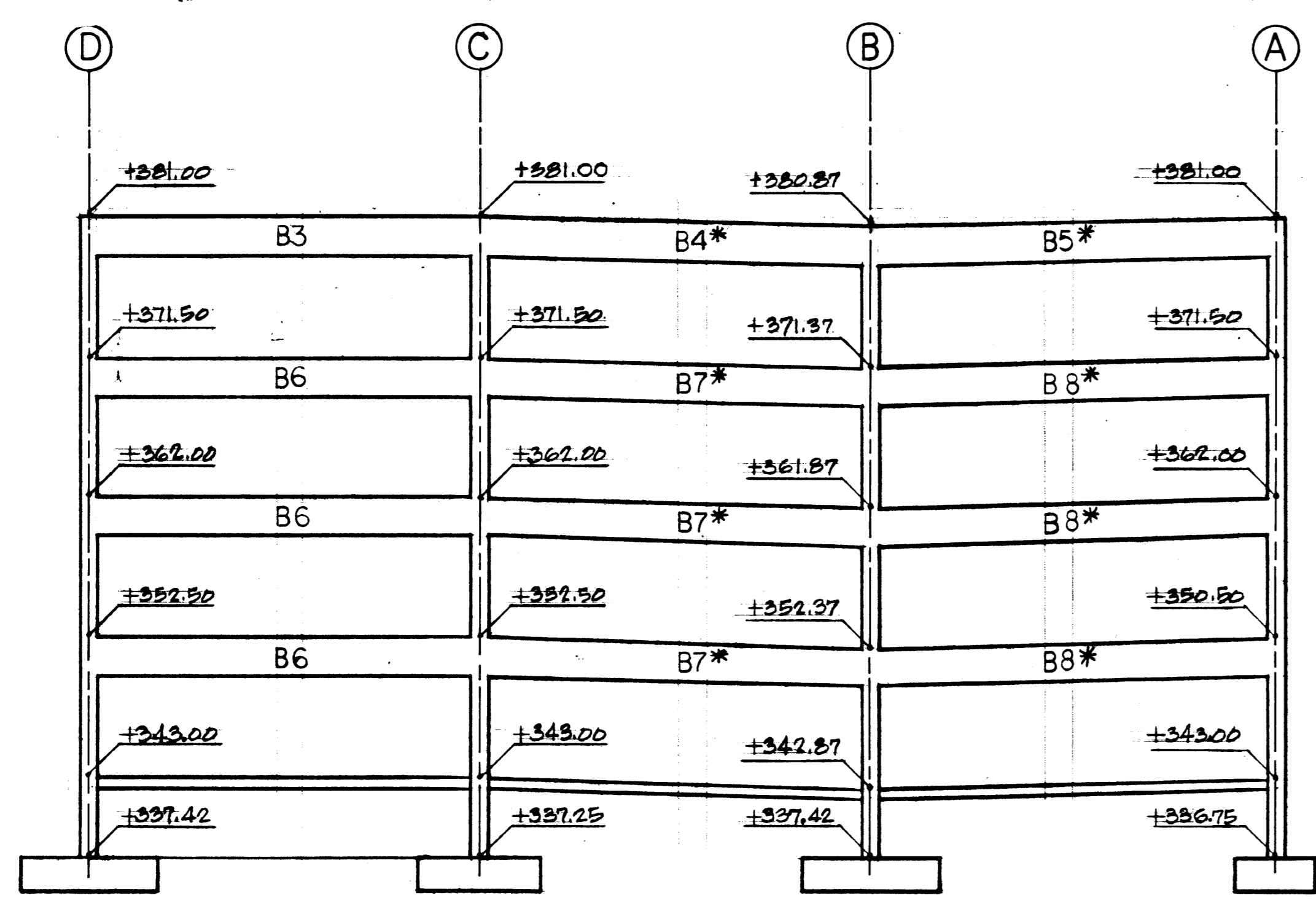
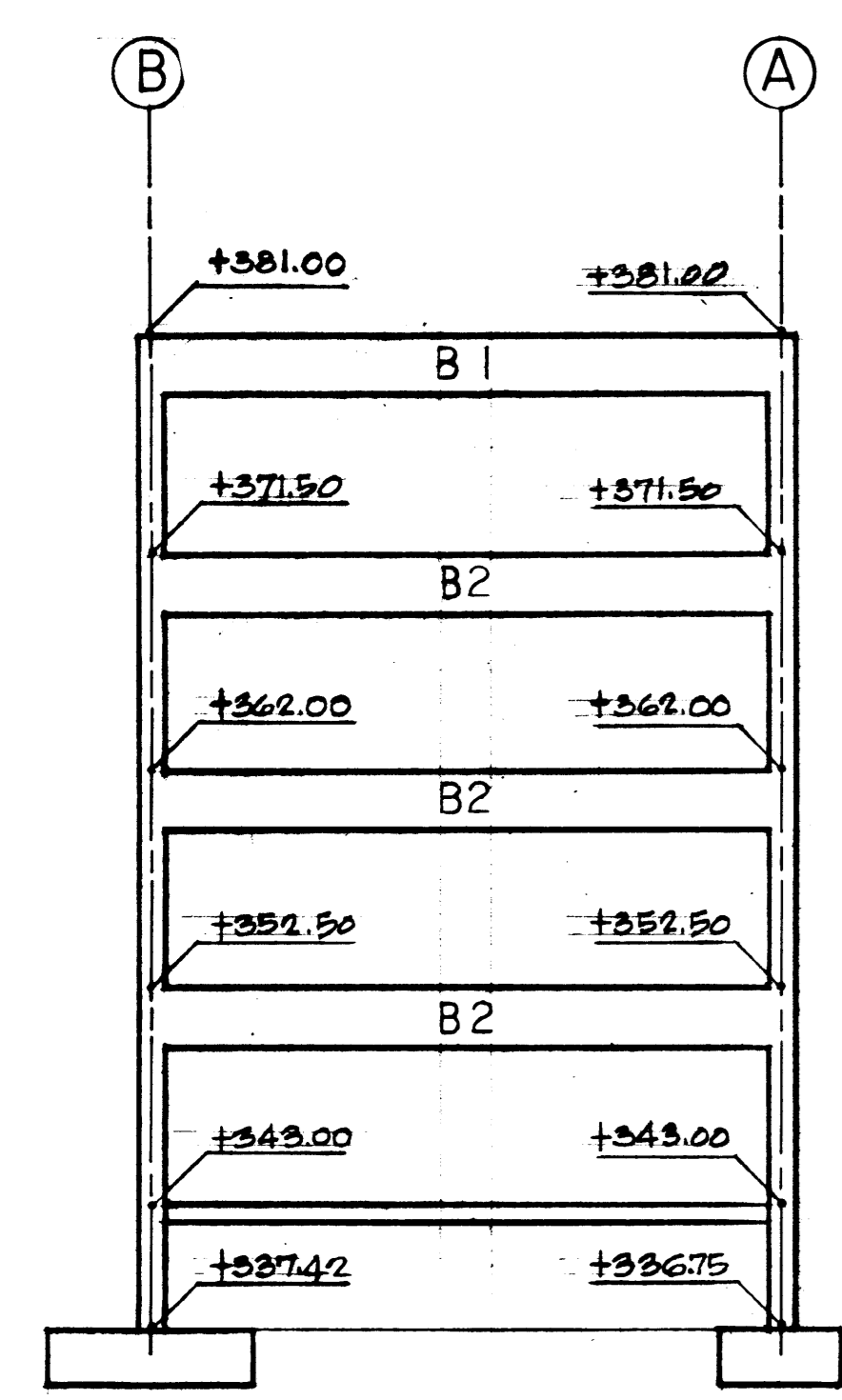
NO.	DESCRIPTION	BY	DATE	ISSUED

REVISIONS	
1	STAIR TOWER NO. 1 REVISION
2	ISSUED FOR BIDDING
3	ISSUED FOR OWNER'S REVIEW

MONTGOMERY COLLEGE
REDEVELOPMENT OF TAKOMA PARK CAMPUS
TAKOMA PARK MARYLAND
PARKING GARAGE

BUILDING SECTION AND STAIR TOWER DETAILS
DATE 1.30.78
JOB NUMBER 6910
DRAWING NUMBER 55

T.G.R. 505.16



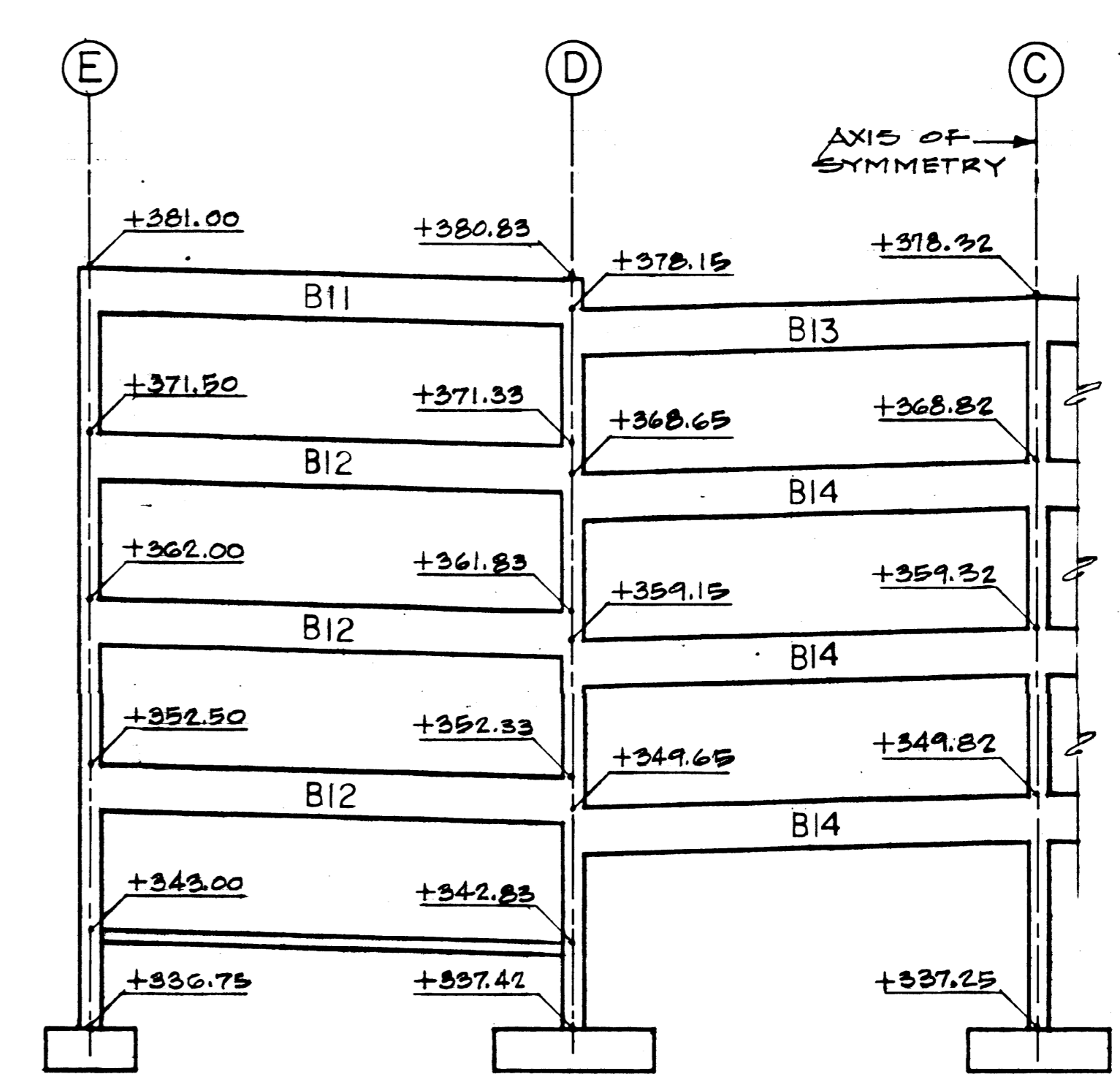
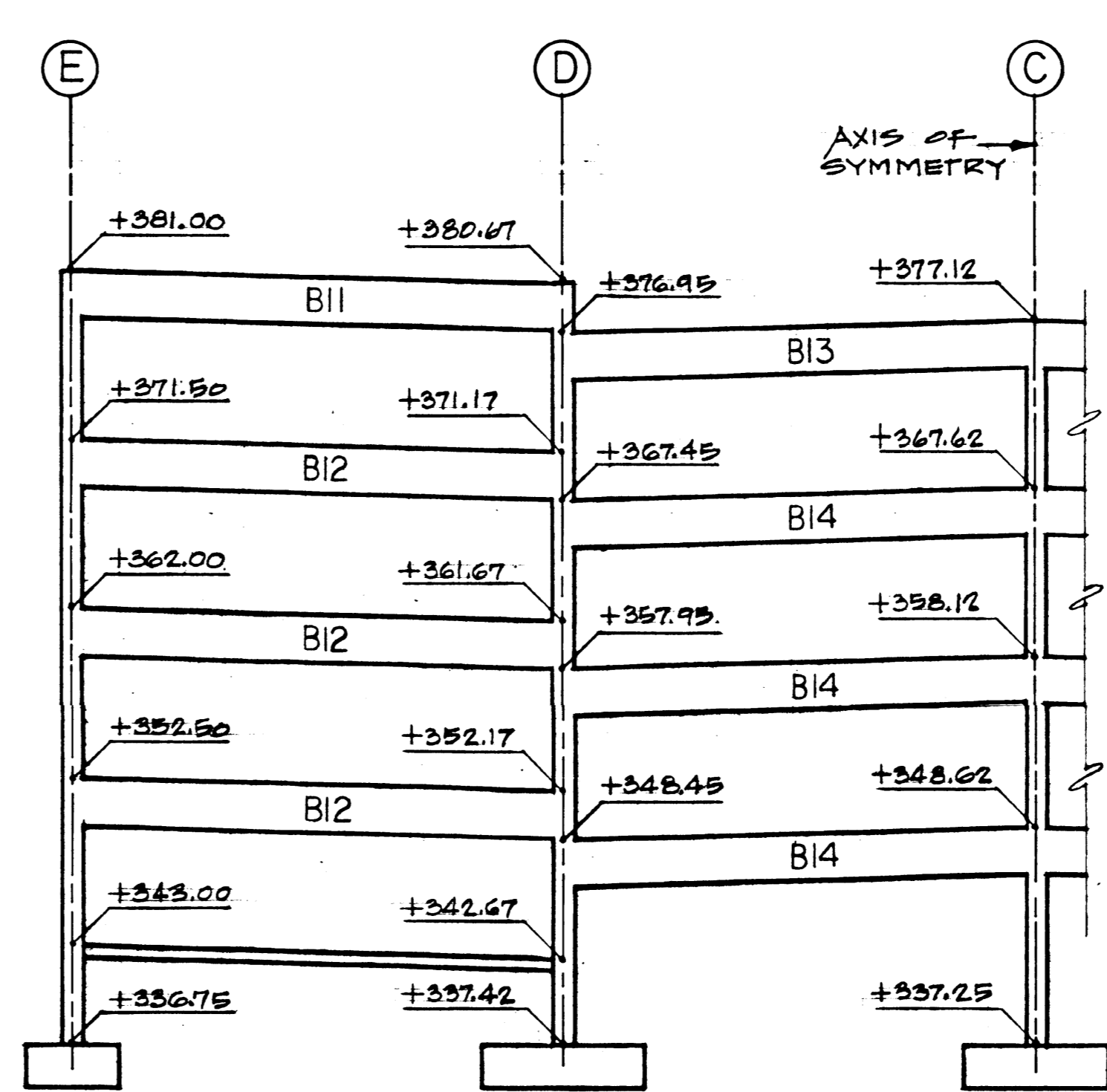
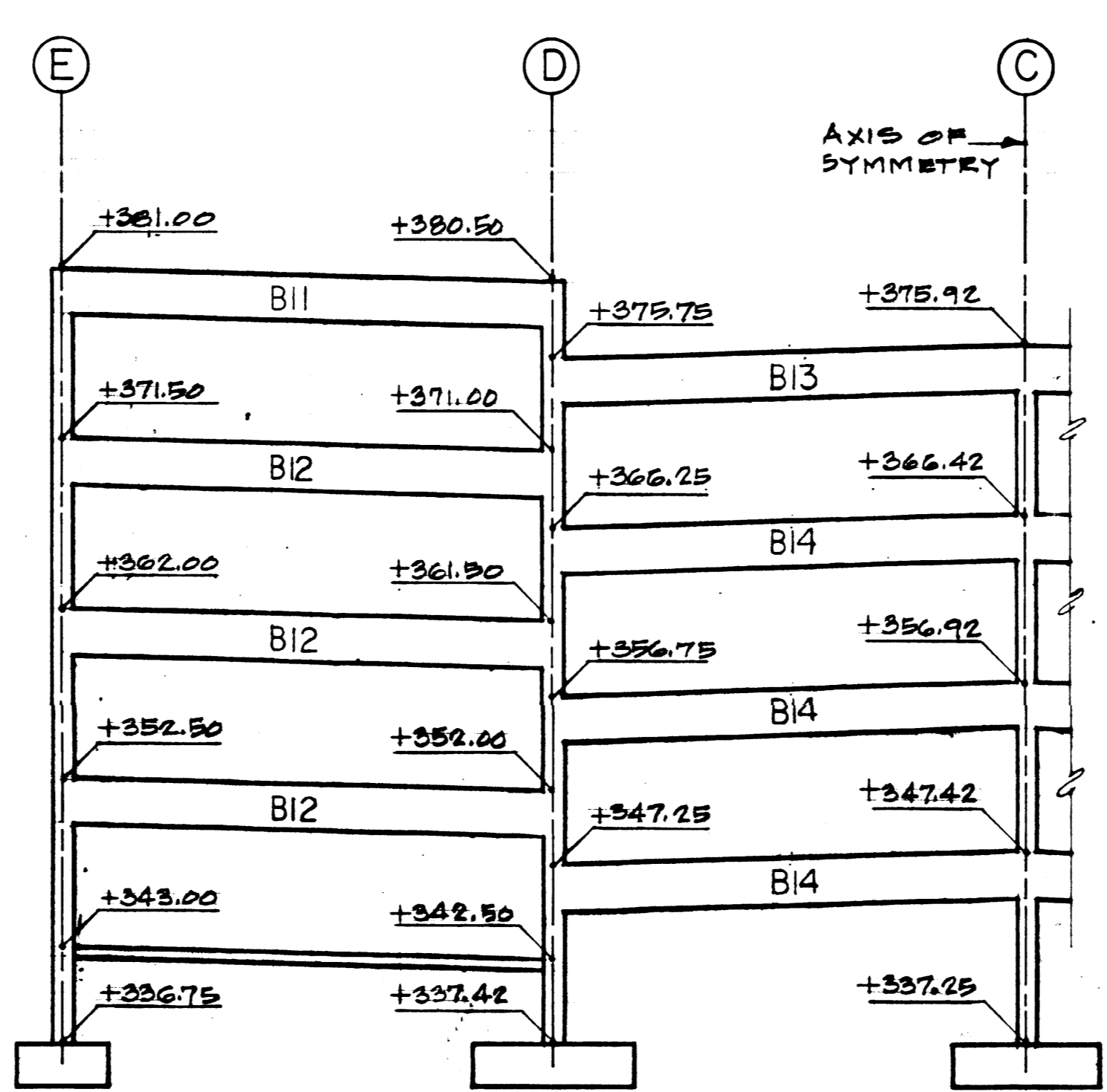
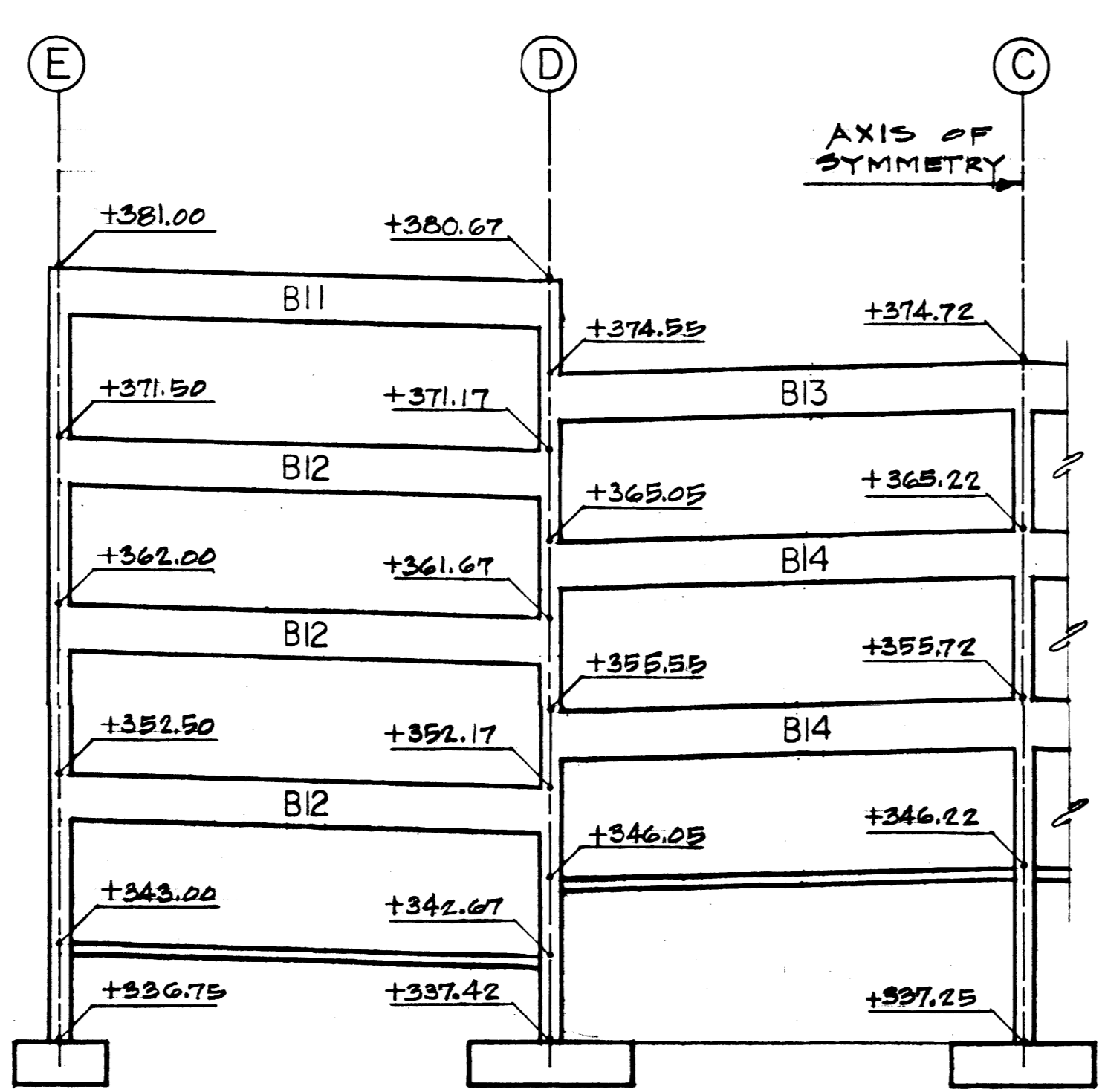
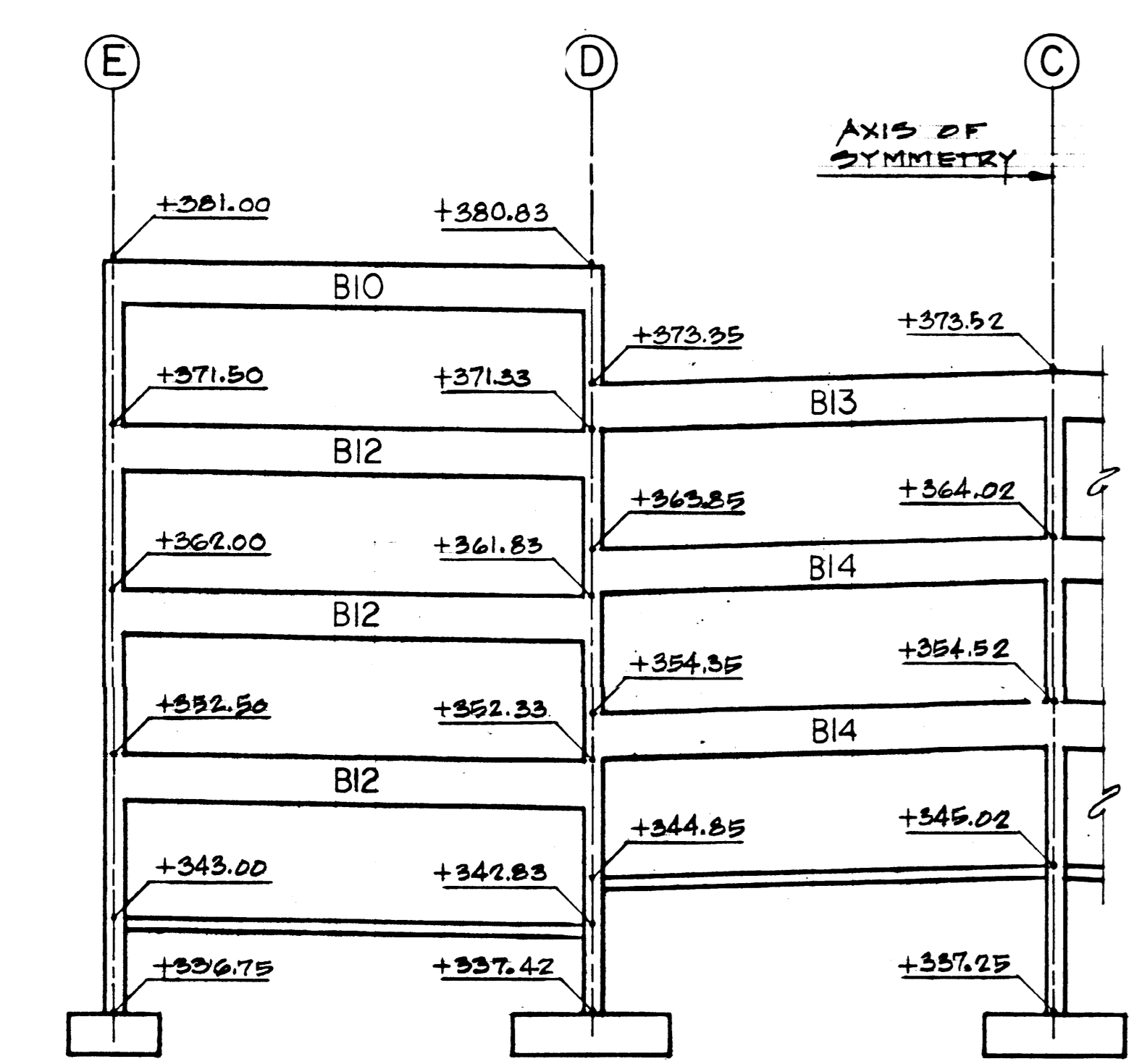
1 SECTION THRU COLUMN LINE-1

2 SECTION THRU COLUMN LINE-2

3 SECTION THRU COLUMN LINE-3

4 SECTION THRU COLUMN LINE-4

5 SECTION THRU COLUMN LINE-5



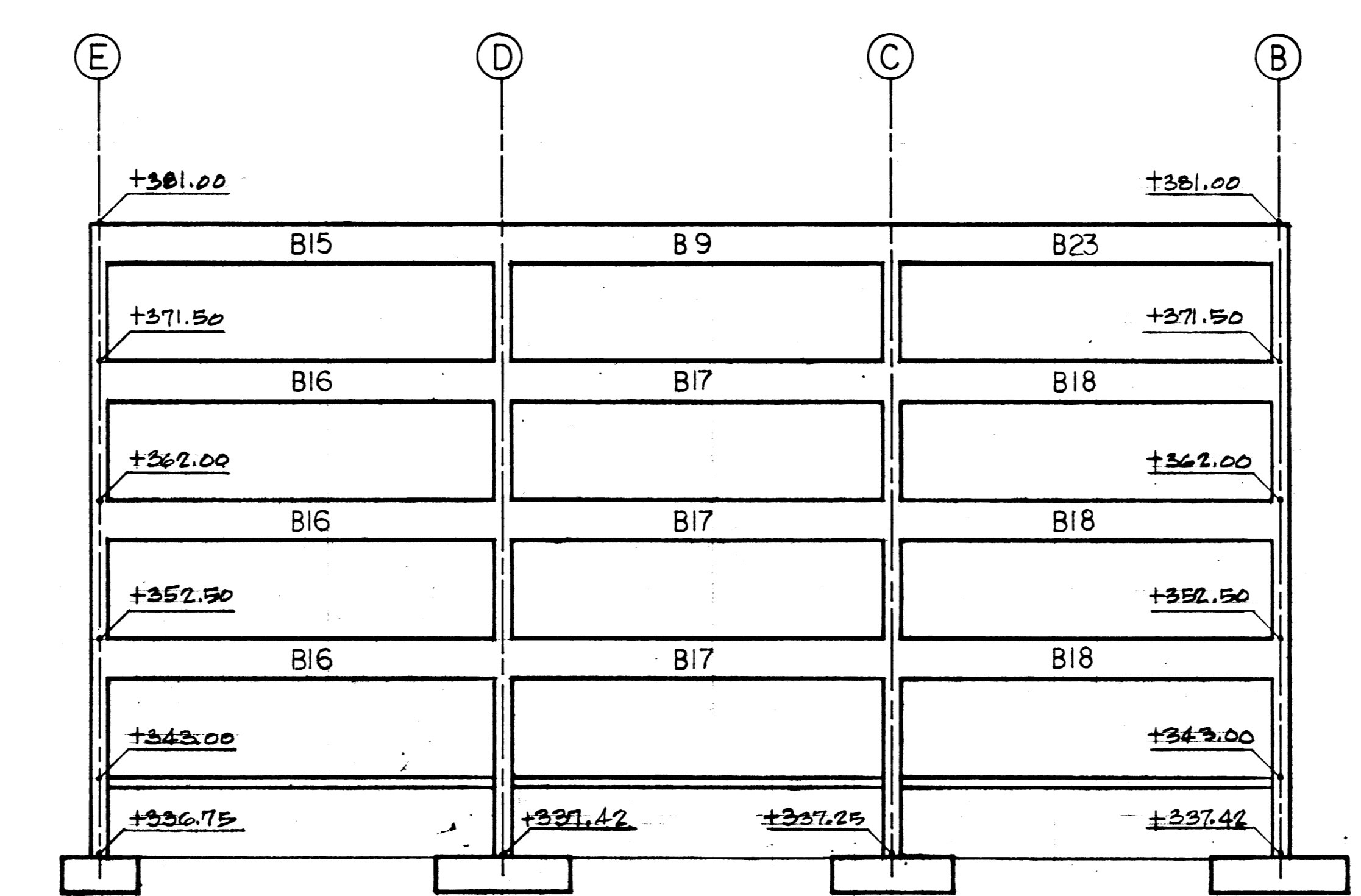
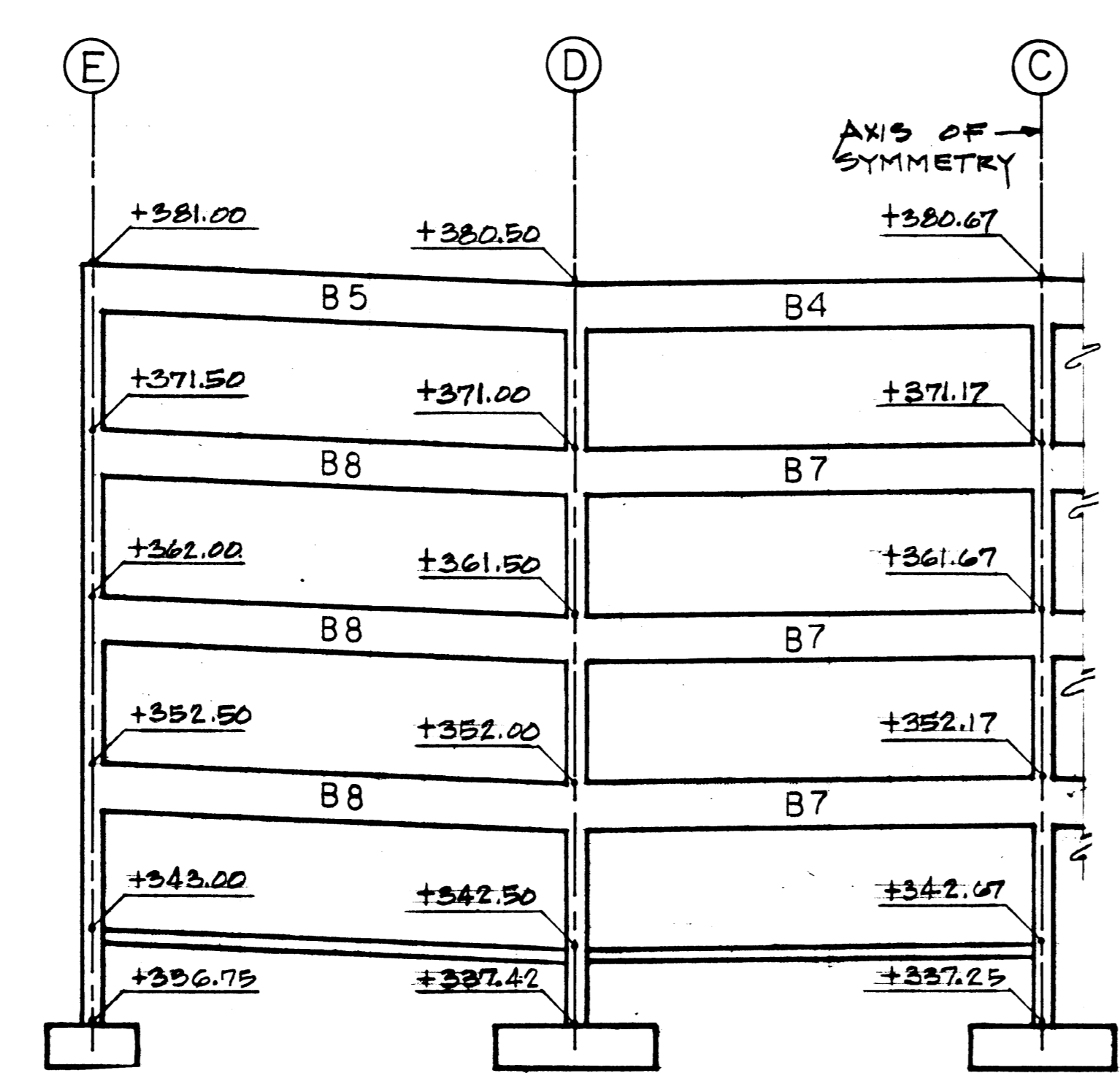
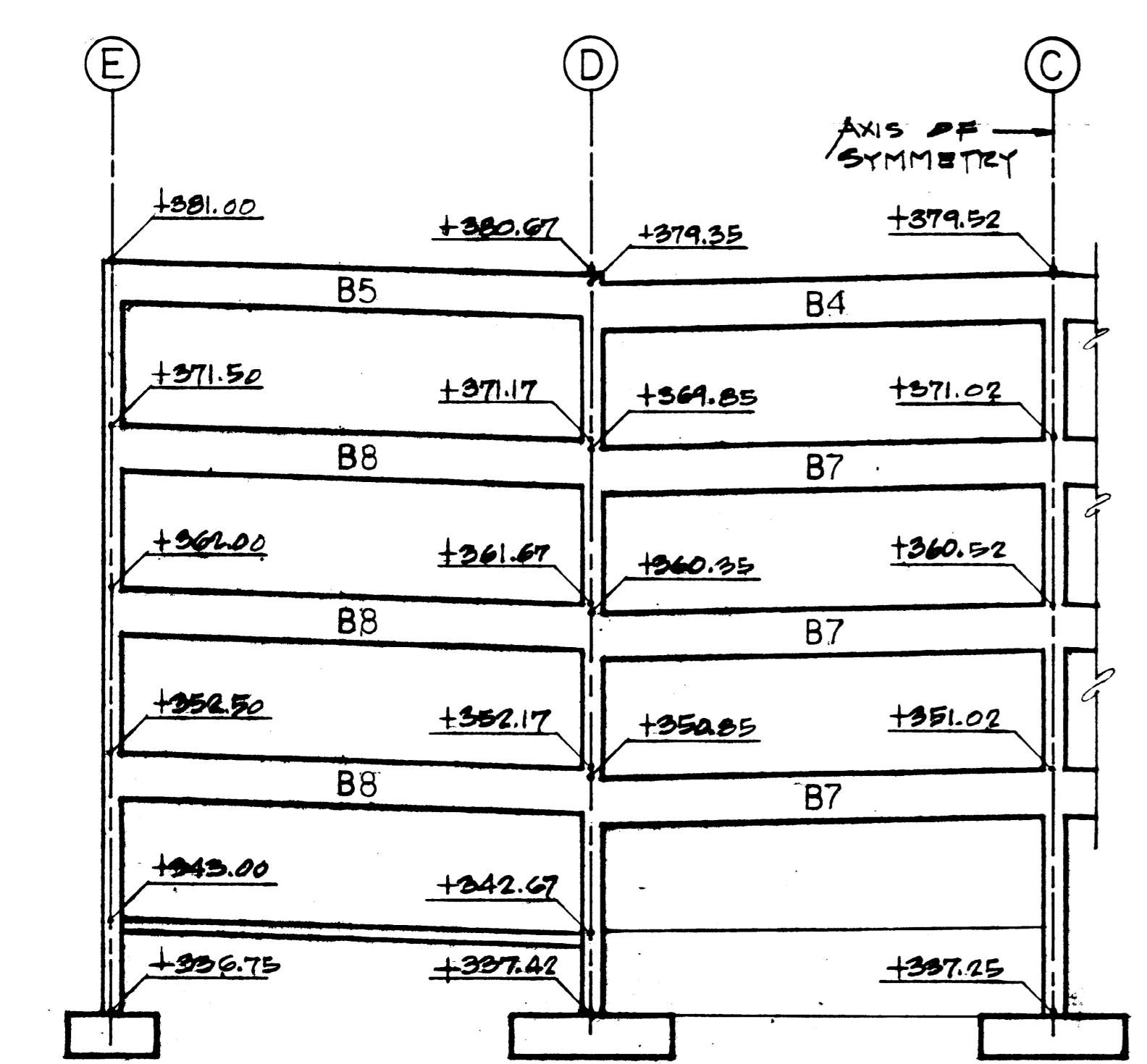
6 SECTION THRU COLUMN LINE-6

7 SECTION THRU COLUMN LINE-7

8 SECTION THRU COLUMN LINE-8

9 SECTION THRU COLUMN LINE-9

10 SECTION THRU COLUMN LINE-10



11 SECTION THRU COLUMN LINE-11

12 SECTION THRU COLUMN LINE-12

13 SECTION THRU COLUMN LINE-13

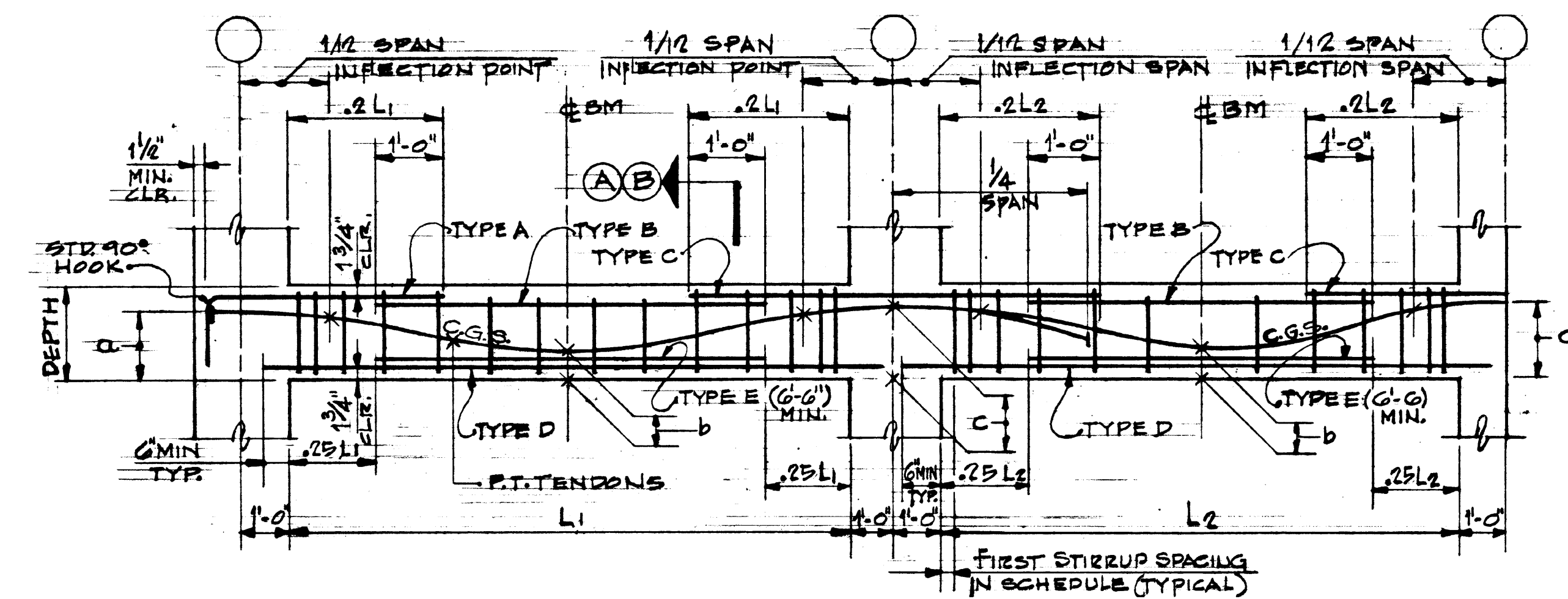
NOTES:
 1. BENT DIAGRAM 3 THRU 12 ARE SYMMETRICAL ABOUT COLUMN LINE 2.
 2. ELEVATIONS SHOWN THRU +343.00 INDICATE TOP OF STRUCTURAL SLAB AT INTERSECTION OF BEAM AND COLUMN CENTERLINES EXCLUDING SLAB CANTS AND BLENDS.
 3. SEE FLOOR FRAMING PLANS, SHEETS 52, 53 & 54, FOR REMAINING BEAM DESIGNATIONS FOR SECTIONS 2 THRU 12.

NO.	DESCRIPTION	BY	DATE
2	ISSUED FOR BIDDING	KW	9/10/75
1	ISSUED FOR OWNER'S REVIEW	KW	8/27/75

REVISIONS	
MONTGOMERY COLLEGE	
REDEVELOPMENT OF TAKOMA PARK CAMPUS	
TAKOMA PARK	MARYLAND
PARKING GARAGE	
BENT DIAGRAMS	

DESIGNED BY GREENE	CHECKED BY J. J. [Signature]	DATE 1 SEPT 75	JOB NUMBER 6710	DRAWING NUMBER 56
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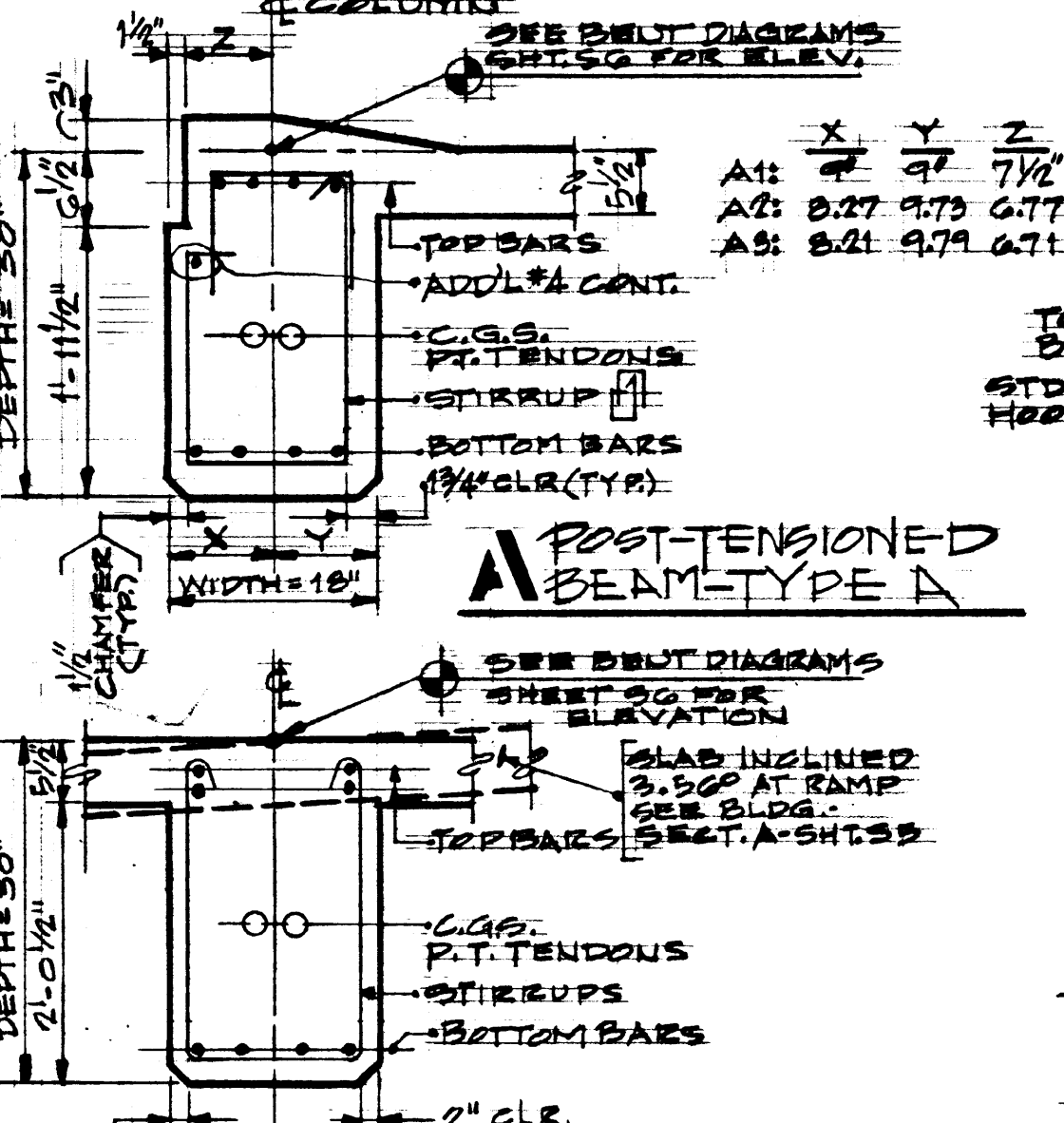
T. GR. S-06.14c



EXTERIOR SUPPORT INTERIOR SUPPORT INTERIOR SUPPORT

1 TYPICAL POST-TENSIONED BEAM (N.T.S.)

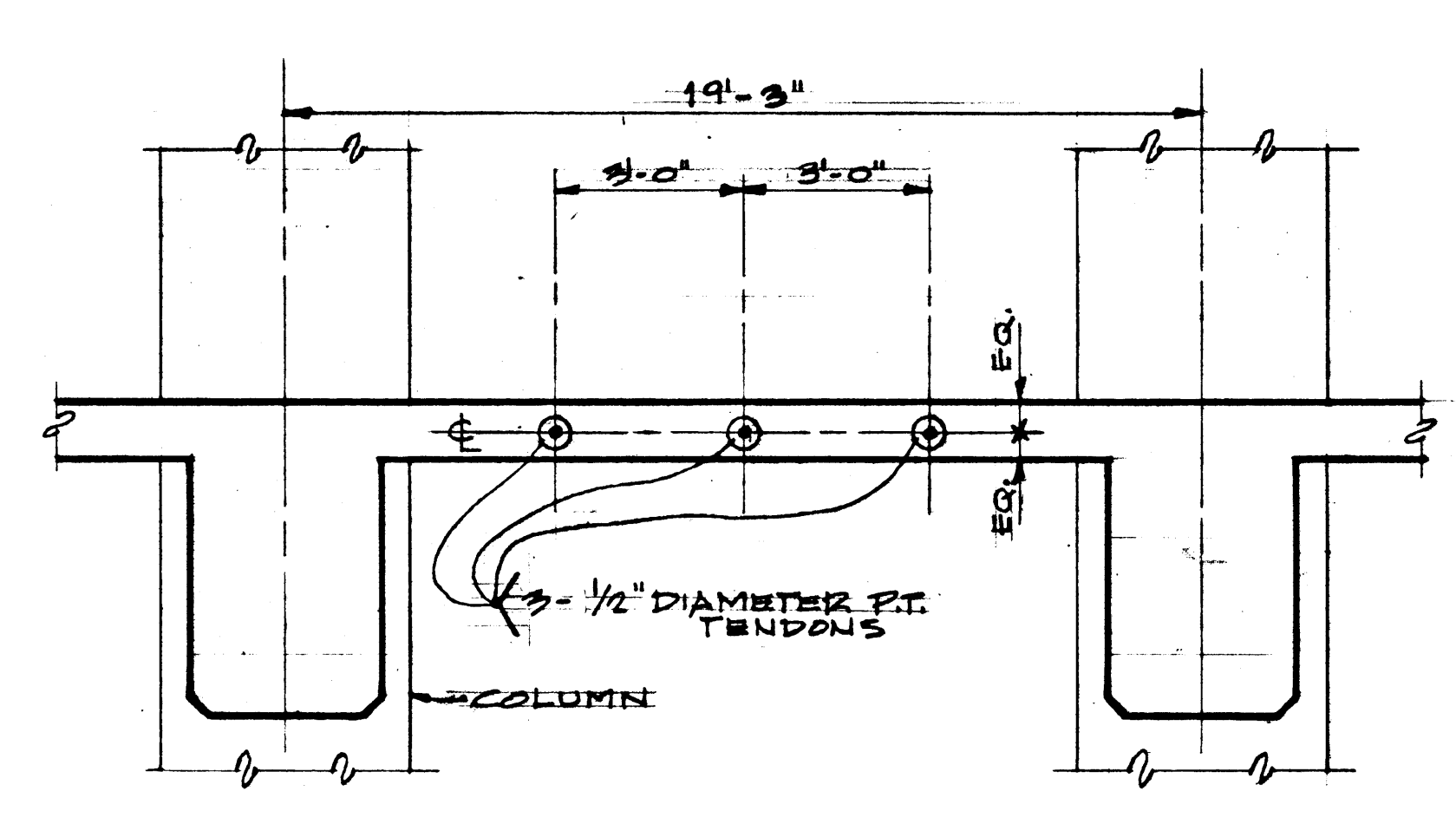
NOTE: 1. SPAN = DISTANCE CENTER TO CENTER OF SUPPORT



EXTERIOR SUPPORT INTERIOR SUPPORT INTERIOR SUPPORT

2 TYPICAL POST-TENSIONED SLAB

NOTE: 1. * = DISTANCE FROM BOTTOM TO CENTROID OF TENDON
2. TOP BAR CENTERED AT SUPPORT UNLESS NOTED OTHERWISE
3. BOTTOM BAR CENTERED AT SPAN UNLESS NOTED OTHERWISE
4. SPAN = DISTANCE CENTER TO CENTER OF SUPPORT.



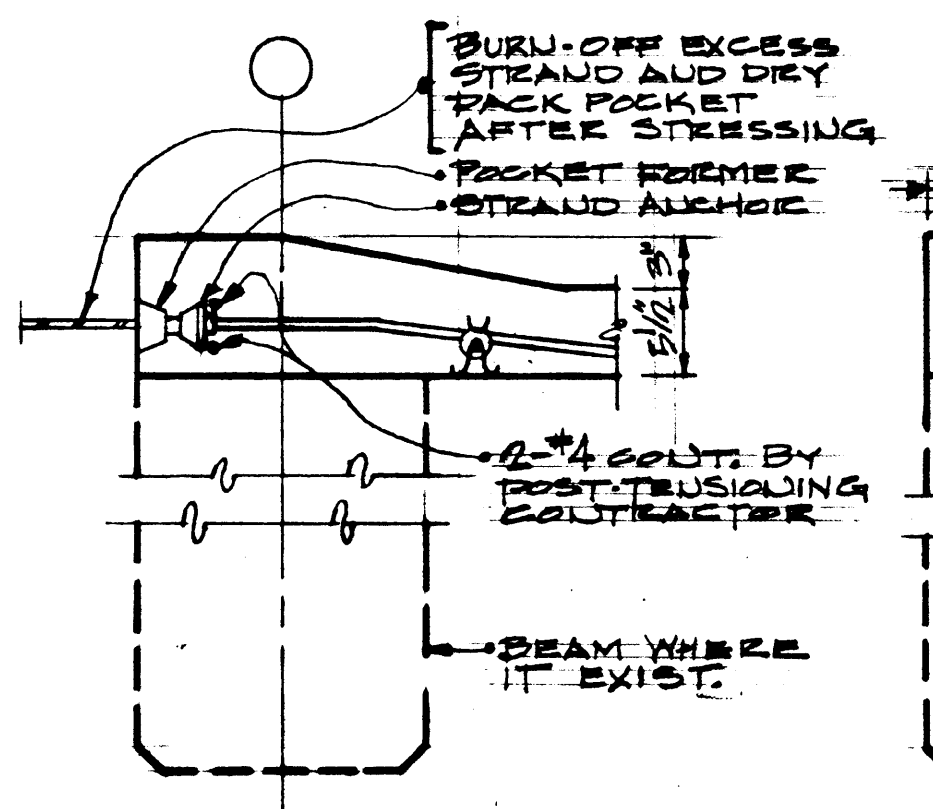
3 TYP. POST-TENSIONED SLAB TEMPERATURE TENDONS (N.T.S.)

POST-TENSIONED CONCRETE NOTES

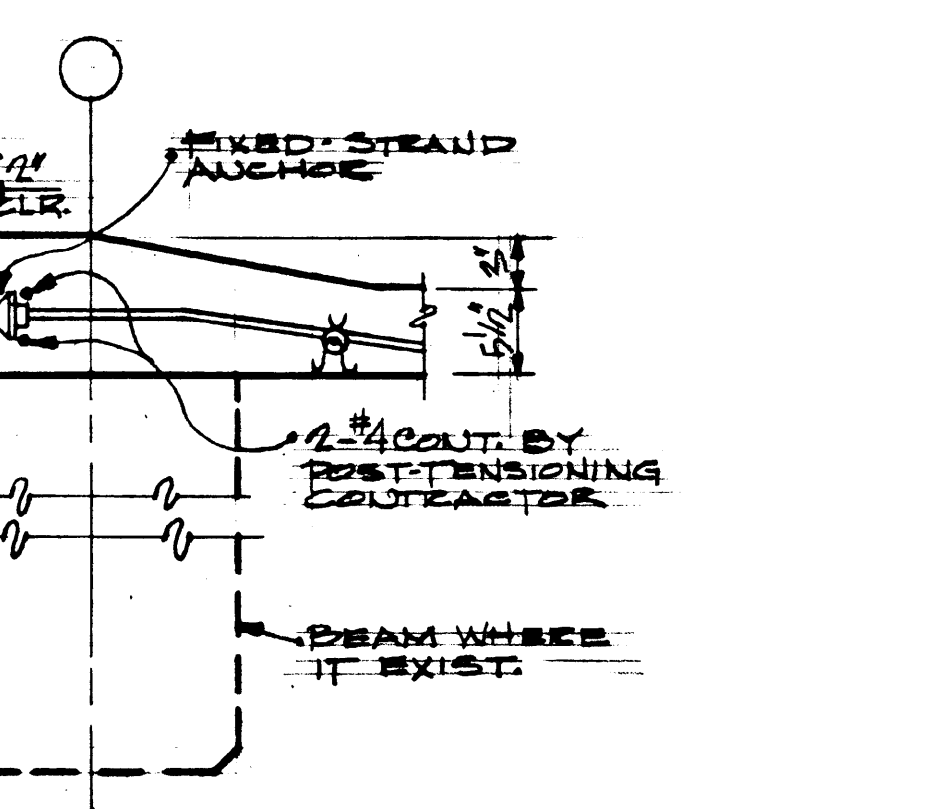
- The required post-tensioning forces shown on the framing plans are effective forces and do not include any post-tension losses. Number and sizes of the tendons shall be determined by the post-tensioning supplier on this basis and shall be subjected to the approval of the Architect.
- The stressing of the slab tendons may commence when concrete has obtained a compressive strength of 3,000 PSI. Post-tensioning of the slab tendons shall be done within 96 hours after pouring of concrete. The tendon stressing sequence shall be as follows:
First - Slab Main Tendons
Second - Slab Temperature Tendons
Third - Beam Tendons
- The post-tensioning system shall be unbonded, mono-strand tendon system. Strands used in post-tensioning tendons shall conform to ASTM A416, latest revision, with a guaranteed minimum ultimate strength of 270,000 PSI.
- Tendons shall be temporarily overstressed to 0.8 f_{ult} and locked off at a stress of 0.7 f_{ult}. Frictional losses shall be based on experimentally determined wobble and curvature coefficients and shall be verified during stressing operations. The loss in post-tension due to elastic shortening, shrinkage and creep of concrete and relaxation of steel shall be considered to be 25 ksi.
- Unless otherwise specified on drawings, slab tendons are to be placed in smooth parabolic curves between points dimensioned. High and low point corresponds to column centerline and midspan respectively unless otherwise noted. All dimensions locating tendon profile apply to the center of gravity of the tendons.
- Tendon placement shall not vary more than 1/8" vertically from the points dimensioned. Tendons in the slab may be moved laterally to clear openings positioned in their proper location prior to pouring of concrete. Coring of slabs will not be permitted without the consent of the Architect. All openings and/or sleeves must be shown on shop drawings. Any additional openings, not shown on the approved shop drawings, will require approval from the Architect prior to placement.
- After acceptance and approval of stressing records by the Architect, burn tendon tails off about 1/2" inside pocket and dry pack all post-tensioning pockets with non-shrink grout.
- The post-tensioning contractor shall submit to the Architect, for review, detailed calculations to substantiate prestressing procedure. All prestressing losses shall be accounted for in calculations.
- The post-tensioning contractor shall submit to the Architect, for review, detailed prestressing procedures and sequences.
- See Sheets S3 and S4 for Structural Concrete Notes.
- See Specification Section, 3.1H, "Post-Tensioned Concrete" for further requirements for all post-tensioned concrete work.

POST-TENSIONED BEAM SCHEDULE

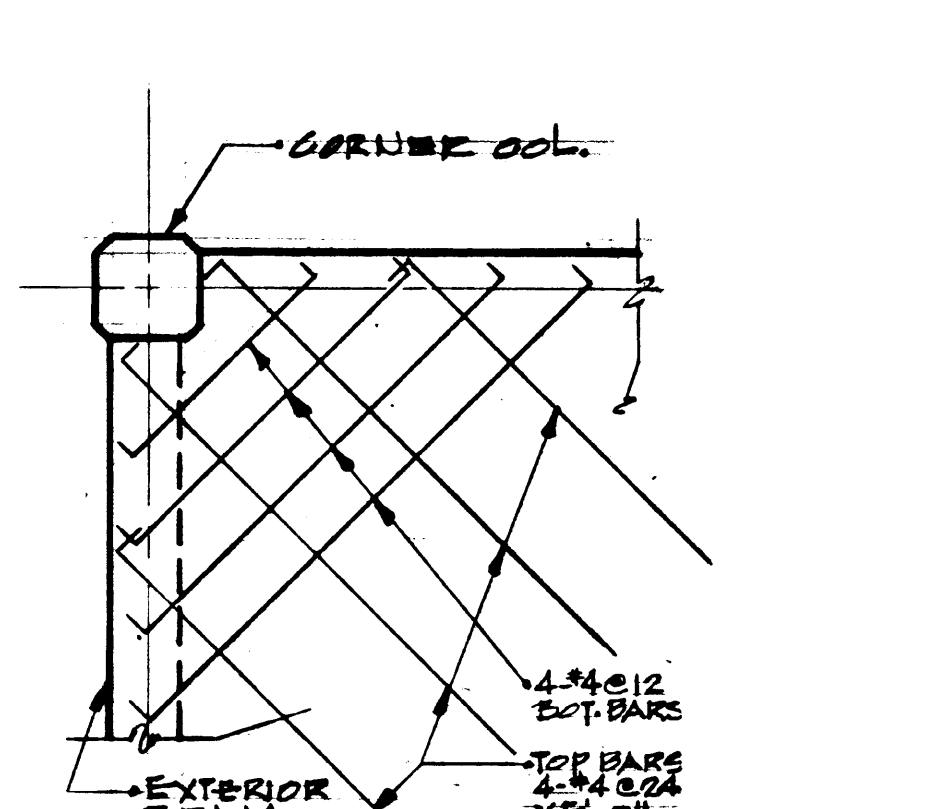
BEAM MARK (FOR BEAM TYPE SEE REMARKS)	SIZE		EFFECTIVE PRE-STRESSING FORCE (KIPS)	SUPPORT CONDITIONS		DISTANCE FROM BOT. OF BEAM TO TENDON (INCHES)			REINFORCEMENT				STIRRUPS		REMARKS NOTE: ALL BEAMS ARE TYPE-B UNO.					
	WIDTH (INCHES)	DEPTH (INCHES)		SOUTH EXT.	NORTH INT.	a	b	c	BOTTOM BARS		TOP BARS		SIZE	TYPE		SPACING EA. END				
									NUMBER	SIZE	TYPE	REMARKS					NUMBER	SIZE	TYPE	REMARKS
B1	18	30	2232	SOUTH EXT.	NORTH INT.	10 3/4	2 1/4	-	2	#8	D		2	#4	A	@ BOTH ENDS	3	B	10G, REST @ 20	TYPE A1
B2	18	30	1984	SOUTH EXT.	NORTH INT.	10 3/4	2 1/4	-	2	#8	D		2	#4	A	@ BOTH ENDS	3	B	10G, REST @ 20	TYPE A1
B3	18	30	2480	SOUTH EXT.	NORTH INT.	10 3/4	5	27 3/4	2	#8	D		2	#4	A	@ SOUTH END & NORTH END	3	B	10G, REST @ 20	TYPE A1
B4	18	30	2480	SOUTH EXT.	NORTH INT.	-	2 1/4	27 3/4	2	#8	D		4	#4	C	@ NORTH END	3	A	10G, 3@12, REST @ 20	B4* SAME AS B4 EXCEPT TOP BARS, USE ONLY 2-#4.
B5	18	30	2476	SOUTH EXT.	NORTH INT.	20 3/4	2 1/4	27 3/4	2	#8	D		4	#4	A	@ SOUTH END & NORTH END	3	A	10G, 3@12, REST @ 20	FOR B5* S REVERSE B5 INT. EXT.
B6	18	30	1984	SOUTH EXT.	NORTH INT.	10 3/4	4	27 3/4	2	#8	D		2	#4	A	@ SOUTH END & NORTH END	3	B	10G, REST @ 20	TYPE A1
B7	18	30	1984	SOUTH INT.	NORTH INT.	-	2 1/4	27 3/4	2	#8	D		4	#4	C	@ NORTH END	3	A	10G, REST @ 20	B7* SAME AS B7 EXCEPT TOP BARS, USE ONLY 2-#4.
B8	18	30	2480	SOUTH EXT.	NORTH INT.	20 3/4	2 1/4	27 3/4	2	#8	D		4	#4	A	@ SOUTH END & NORTH END	3	A	10G, 3@12, REST @ 20	FOR B8* S REVERSE B8 INT. EXT.
B9	18	30	1736	SOUTH INT.	NORTH INT.	-	2 1/4	27 3/4	2	#8	D		2	#4	C	@ NORTH END	3	B	10G, REST @ 20	B9* SAME AS B9 EXCEPT TOP BARS, USE ONLY 2-#4, BM TYPE A1
B10	18	30	3472	SOUTH EXT.	NORTH INT.	20 3/4	2 1/4		2	#8	D		4	#4	A	@ BOTH ENDS	3	A	10G, REST @ 20	
B11	18	30	3472	SOUTH EXT.	NORTH INT.	20 3/4	2 1/4		2	#8	D		4	#4	A	@ BOTH ENDS	3	A	10G, 3@12, REST @ 20	
B12	18	30	2727	SOUTH EXT.	NORTH INT.	20 3/4	2 1/4		2	#8	D		4	#4	A	@ BOTH ENDS	3	A	10G, 3@12, REST @ 20	
B13	18	30	2727	SOUTH EXT.	NORTH INT.	20 3/4	2 1/4	27 3/4	2	#8	D		4	#4	A	@ SOUTH END & NORTH END	3	A	10G, 3@12, REST @ 20	
B14	18	30	1983	SOUTH EXT.	NORTH INT.	20 3/4	2 1/4	27 3/4	2	#8	D		4	#4	A	@ SOUTH END & NORTH END	3	A	10G, 3@12, REST @ 20	
B15	18	30	2232	SOUTH EXT.	NORTH INT.	10 3/4	2 1/4	27 3/4	2	#8	D		2	#4	A	@ SOUTH END & NORTH END	3	B	10G, REST @ 20	TYPE A1
B16	18	30	1984	SOUTH EXT.	NORTH INT.	10 3/4	2 1/4	27 3/4	2	#8	D		2	#4	A	@ SOUTH END & NORTH END	3	B	10G, REST @ 20	TYPE A1
B17	18	30	1488	SOUTH INT.	NORTH INT.	-	2 1/4	27 3/4	2	#8	D		2	#4	B		3	B	10G, REST @ 20	TYPE A1
B18	18	30	1736	SOUTH INT.	NORTH INT.	10 3/4	2 1/4	27 3/4	2	#8	D		2	#4	A	@ SOUTH END & NORTH END	3	B	10G, REST @ 20	TYPE A1
B19	18	30	2728	SOUTH EXT.	NORTH INT.	10 3/4	2 1/4		2	#8	D		2	#4	A	@ BOTH ENDS	3	B	10G, 2@12, REST @ 20	TYPE A2, A3
B20	18	30	2232	SOUTH EXT.	NORTH INT.	10 3/4	2 1/4		2	#8	D		2	#4	A	@ BOTH ENDS	3	B	10G, REST @ 20	TYPE A2, A3
B21	18	30	2727	SOUTH INT.	NORTH EXT.	20 3/4	2 1/4	27 3/4	2	#8	D		4	#4	A	@ NORTH ENDS	3	A	10G, 3@12, REST @ 20	
B22	18	30	1983	SOUTH INT.	NORTH EXT.	20 3/4	2 1/4	27 3/4	2	#8	D		4	#4	A	@ NORTH ENDS	3	A	10G, 3@12, REST @ 20	
B23	18	30	1984	SOUTH INT.	NORTH EXT.	10 3/4	2 1/4	27 3/4	2	#8	D		2	#4	A	@ NORTH ENDS	3	B	10G, REST @ 20	TYPE A1



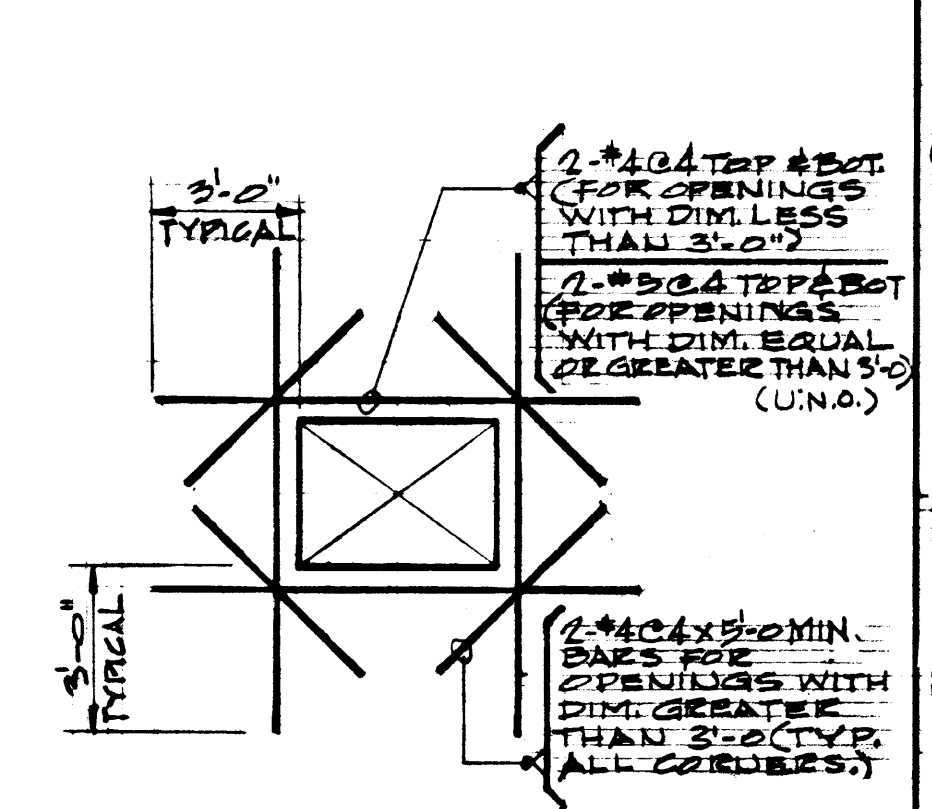
4 TYP. STRESSING END SLAB DETAIL (N.T.S.)



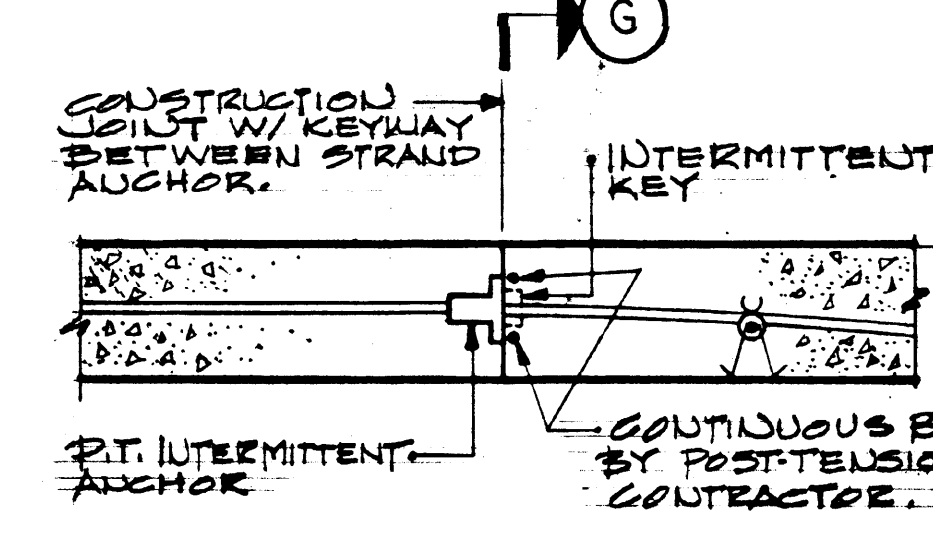
5 TYP. NON-STRESSING END SLAB DETAIL (N.T.S.)



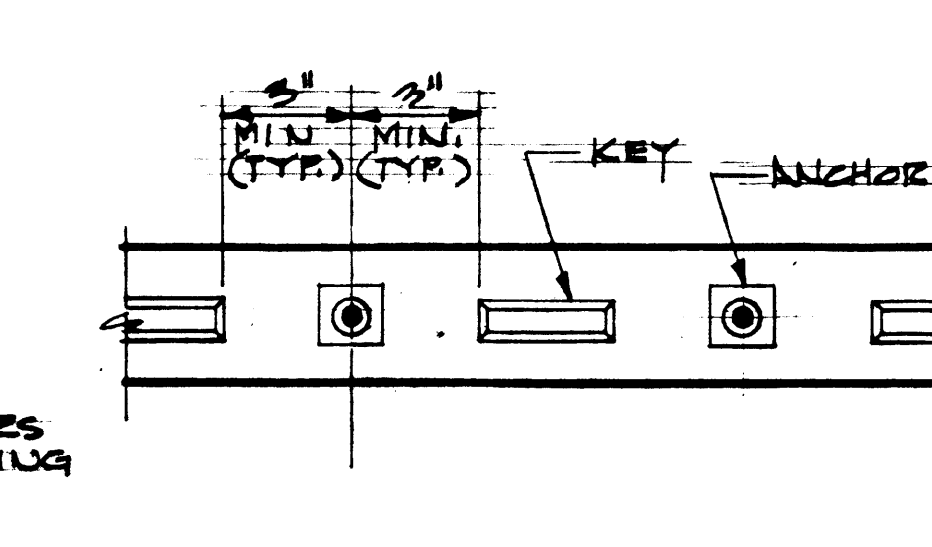
6 TYP. SLAB CORNER COLUMN DETAIL (N.T.S.)



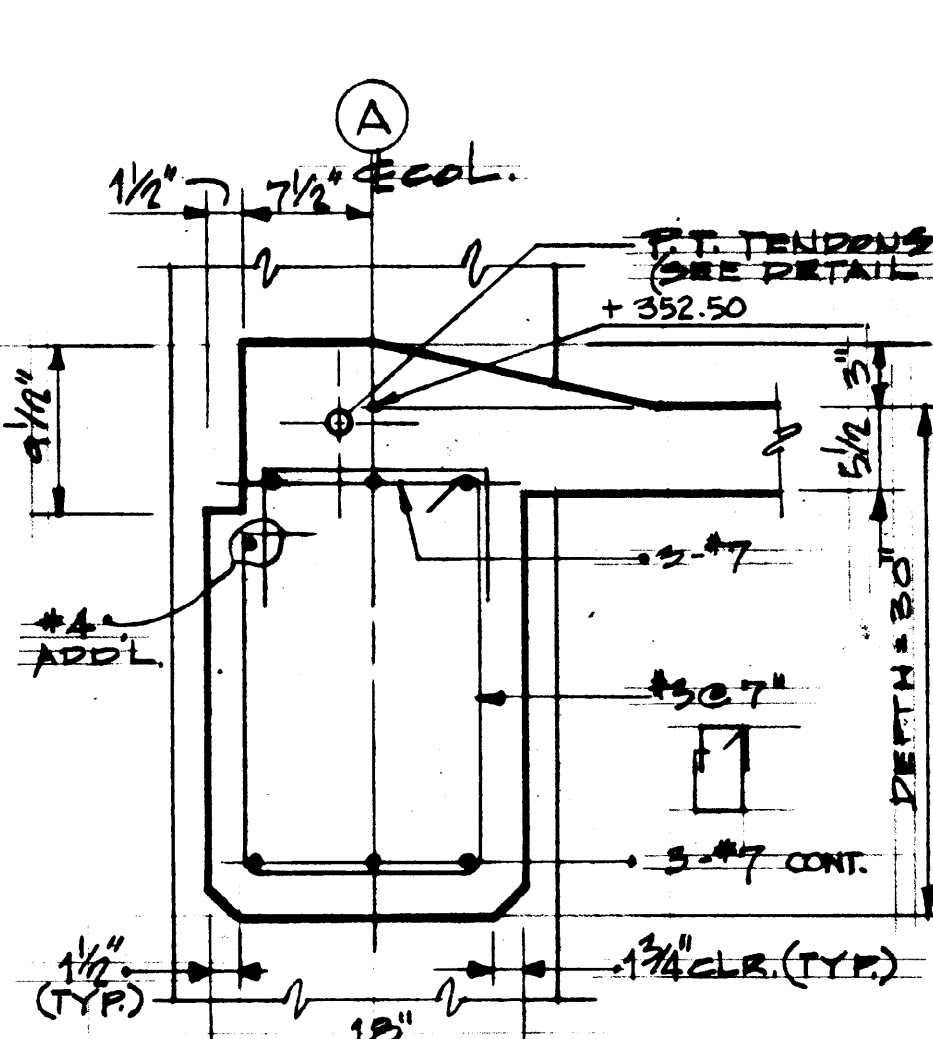
7 TYP. SLAB OPENING REINFORCING DET. (N.T.S.)



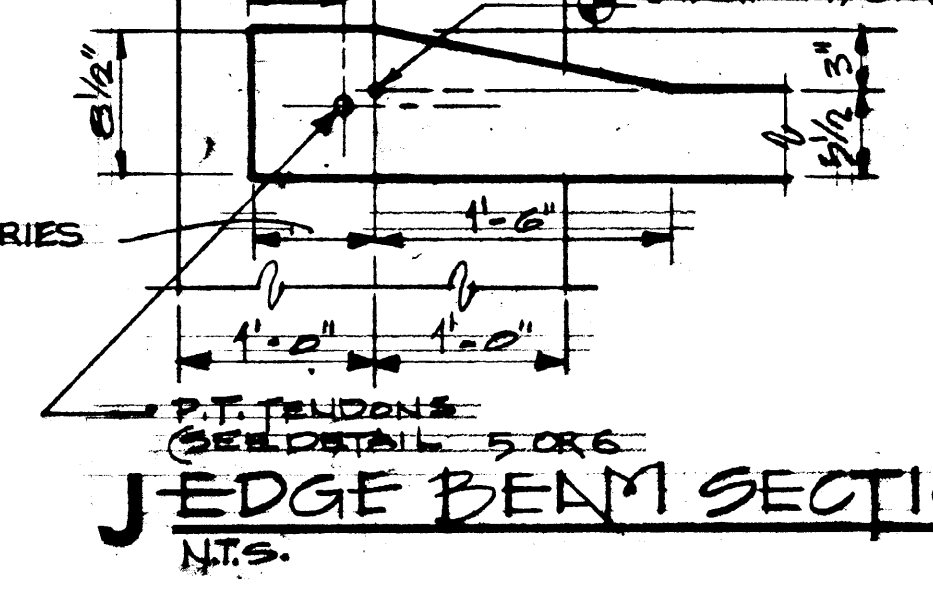
8 TYP. INTERMEDIATE STRESSING DETAIL (N.T.S.)



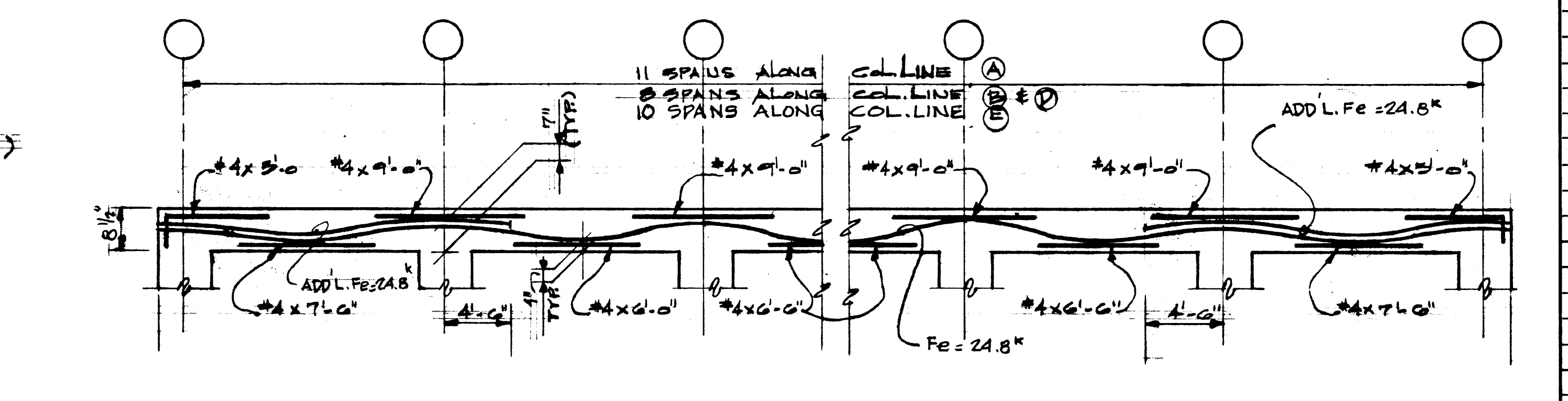
9 SECTION



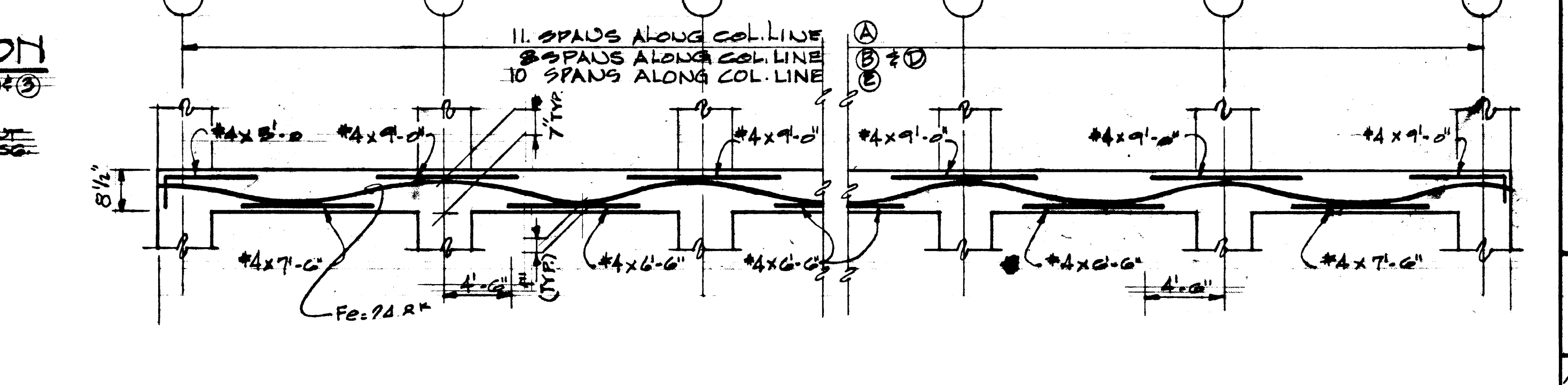
10 H EDGE BEAM SECTION



11 J EDGE BEAM SECTION (N.T.S.)



5 ROOF EDGE BEAM



6 FLOOR EDGE BEAM

ADDENDUM NO. 1-6
DETAIL 3: DELETE 3" - 1 1/2" DIAMETER P.T. TENDONS AND INSERT 3" - 1/2" DIAMETER P.T. TENDONS

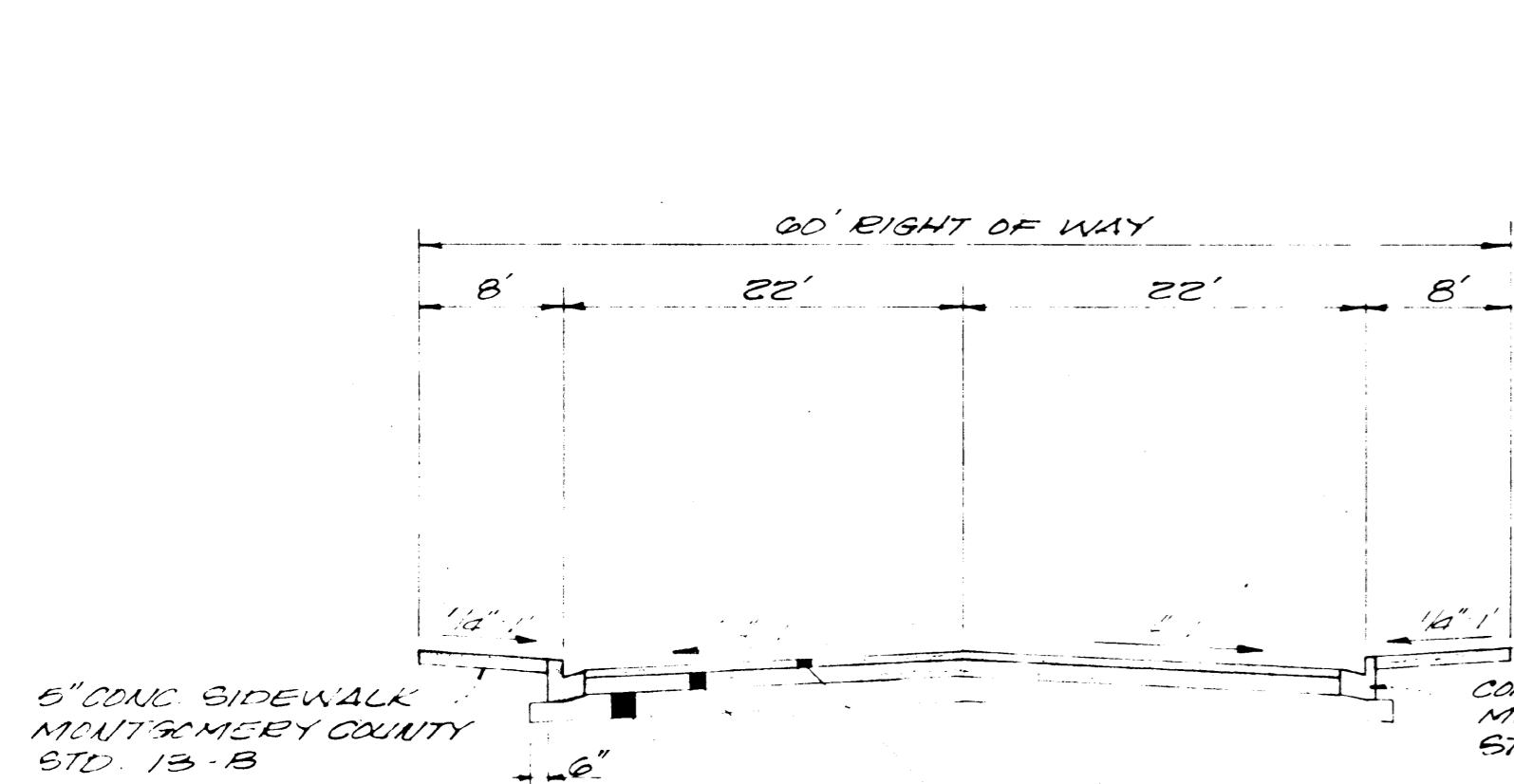
NO.	DESCRIPTION	BY DATE	ISSUED
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2	ISSUED FOR OWNER'S REVIEW	KW 10/11/78	

REVISIONS

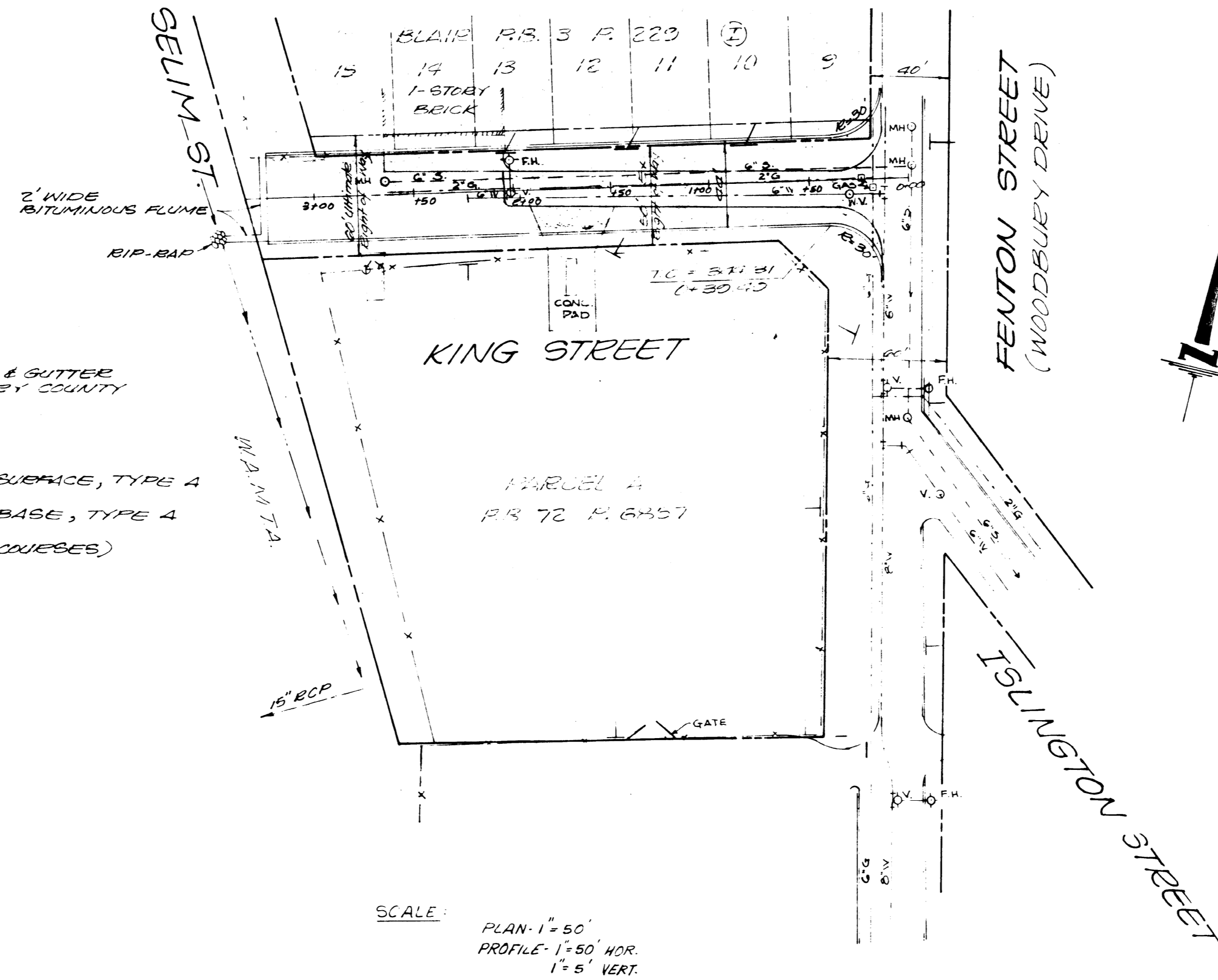
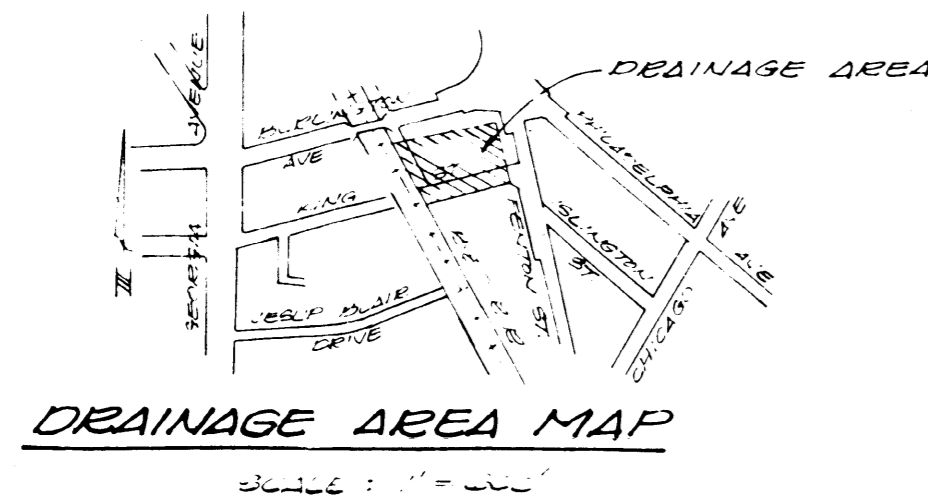
MONTGOMERY COLLEGE
REDEVELOPMENT OF TAKOMA PARK CAMPUS
TAKOMA PARK MARYLAND
PARKING GARAGE
BEAM AND SLAB DETAILS

DESIGNED BY GREENE	DRAWN BY JAMES R. COOK	CHECKED BY JAMES R. COOK	DATE 1 SEPT 78	JOB NUMBER 010	DRAWING NUMBER S7
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T. GR. S-07-06



TYPICAL PAVING SECTION
KING STREET



GRADE ESTABLISHMENT

KING STREET

MONTGOMERY COUNTY, MARYLAND
THIRTEENTH ELECTION DISTRICT
KIDDE CONSULTANTS, INC.
1385 PICCARD DRIVE
ROCKVILLE, MARYLAND 20850
TELEPHONE: 908-4660 DATE: JULY, 1978

SURVEYOR'S CERTIFICATION

I hereby certify that the information shown herein has been compiled from field surveys; that there is existing paving, sewer, water and gas in this right of way; a portion of this right of way lies within, crosses or connects with an existing or proposed county road and that the designs conform to the Montgomery County, Road Code, Requirements for Profiles Section 1, paragraphs 6 (A) through 6 (G).

RICHARD H. KEHR
Registered Land Surveyor
Maryland No. 4930

Date

