

It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

**CITY OF ROCHESTER**  
414 ANDREWS STREET  
ROCHESTER, NY 14604

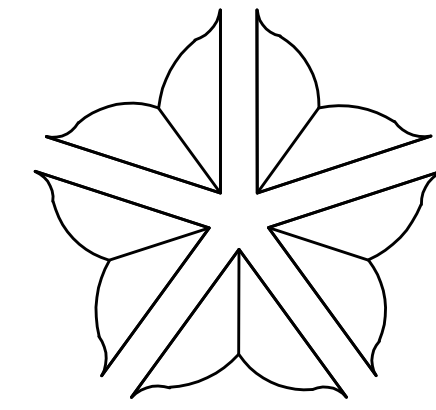
**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2170391
DRAWN BY:		MML
REVIEWED BY:		JMG
ISSUED FOR:		35% PRELIMINARY DESIGN
DATE:		JULY 2018
DRAWING NAME:		

COVER SHEET &  
LOCATION PLAN

DRAWING NUMBER:

**G-000**



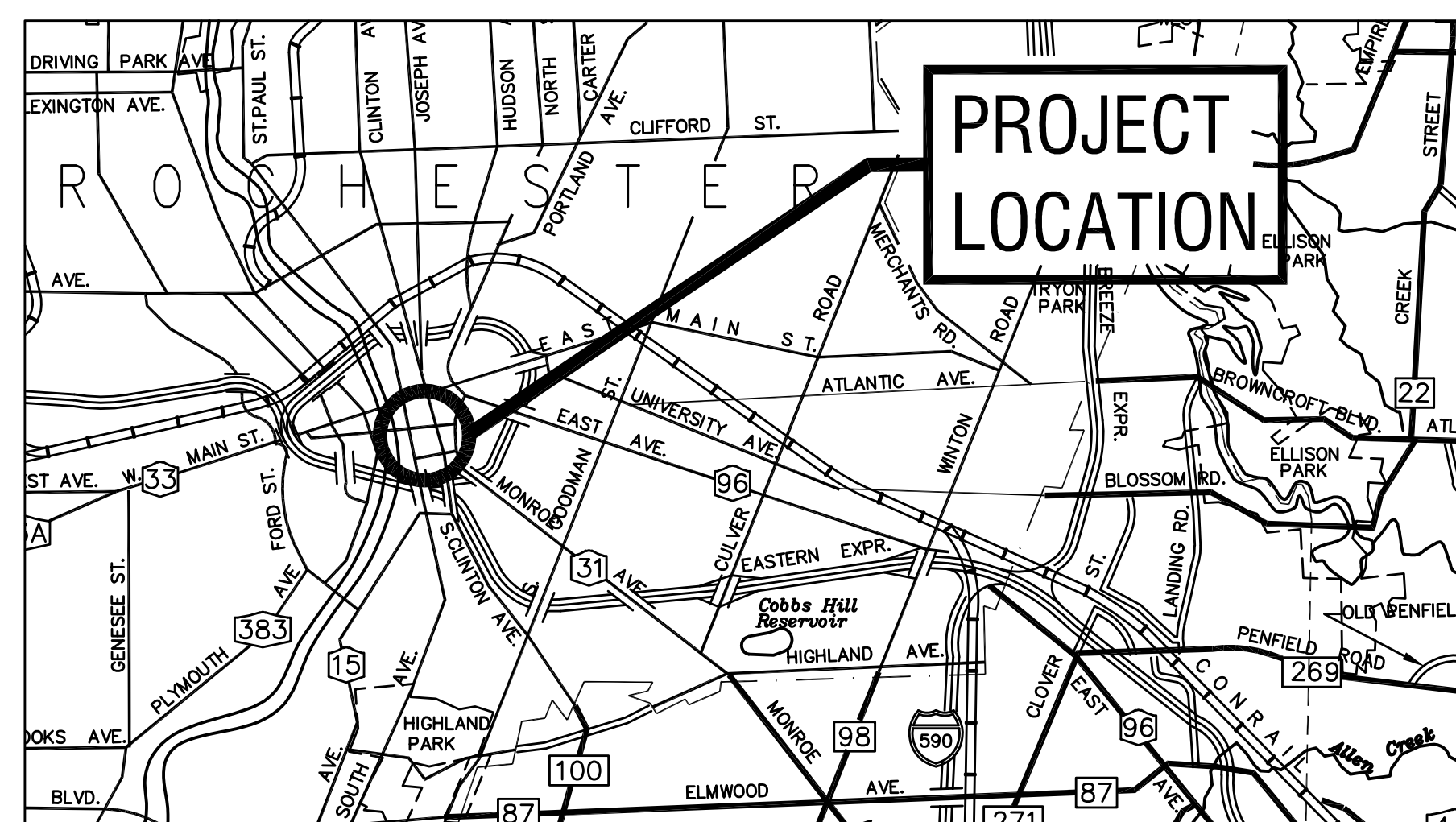
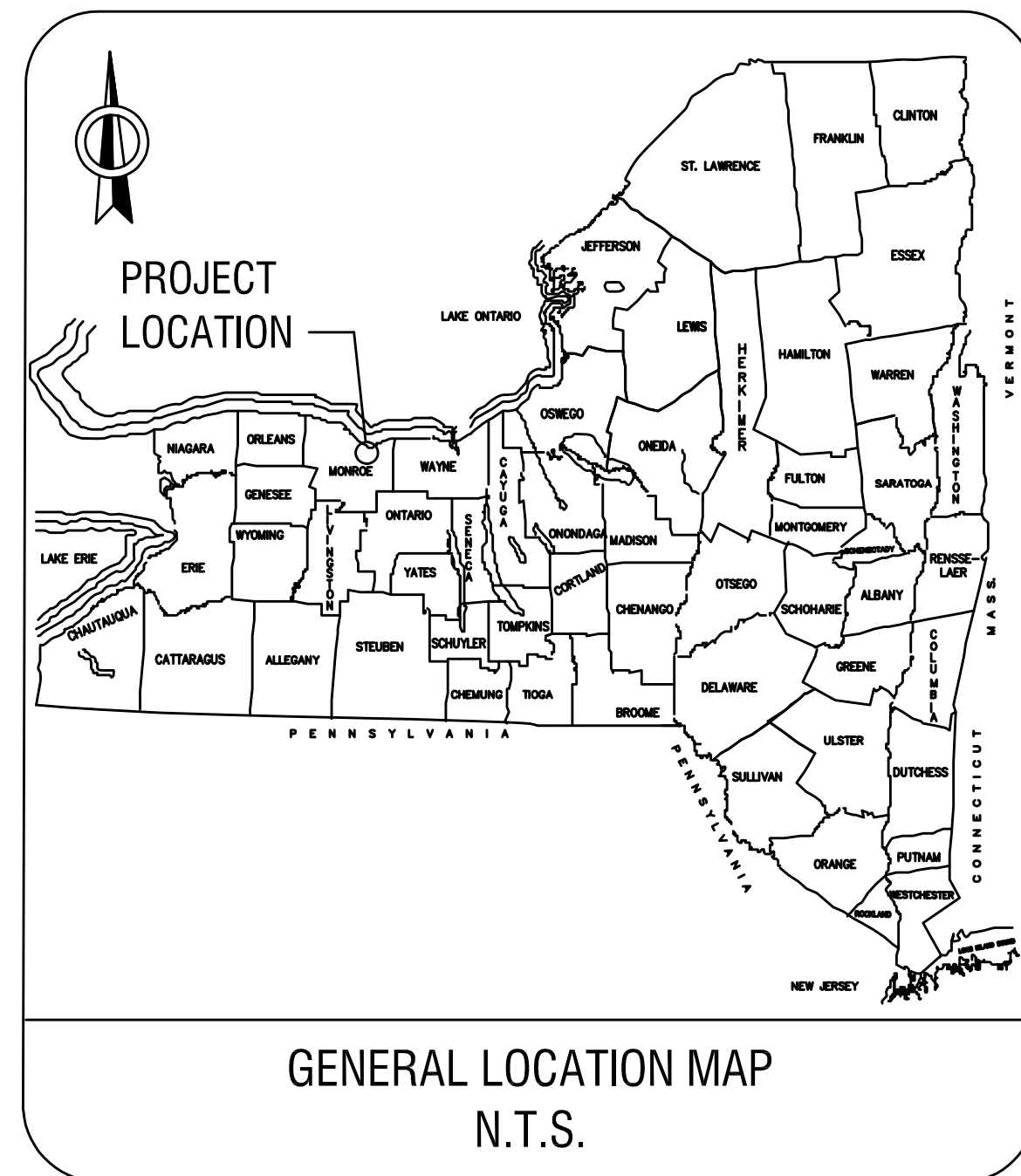
City of Rochester

Department of Environmental Services

**RUNDEL LIBRARY TERRACE  
PHASE IV  
STRUCTURAL IMPROVEMENTS  
ROCHESTER, NY**

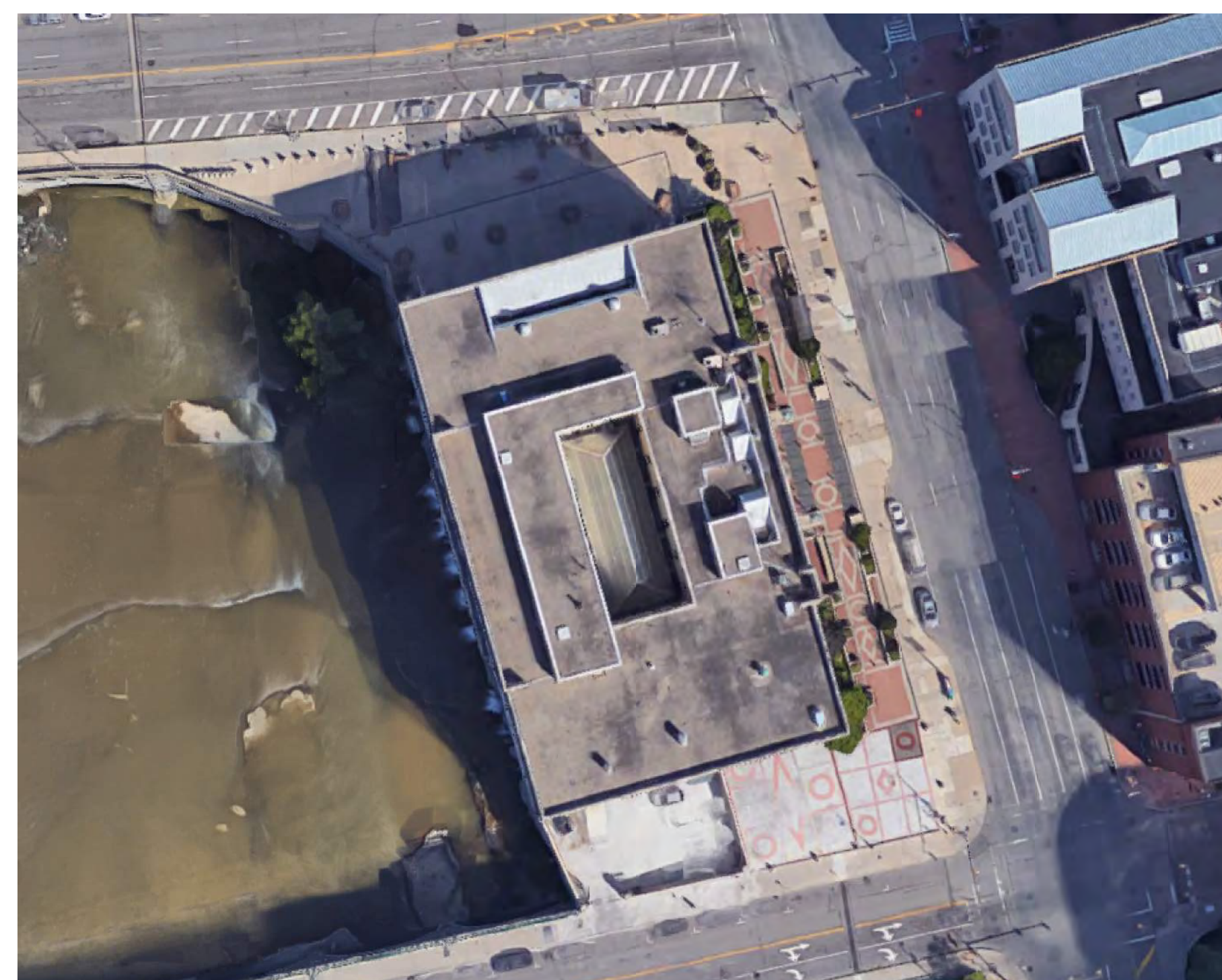
JULY 2018

CITY PROJECT NO. 16032  
CONTRACT 1 - GENERAL CONSTRUCTION  
CONTRACT 2 - MECHANICAL & PLUMBING  
CONTRACT 3 - ELECTRICAL



LOCATION PLAN

SCALE: N.T.S.



AERIAL VIEW

SCALE: N.T.S.

NORMAN H. JONES  
COMMISSIONER, CITY OF ROCHESTER  
DEPARTMENT OF ENVIRONMENTAL SERVICES

DATE

KAMAL L. CRUES, P.E.  
CITY ENGINEER  
CITY OF ROCHESTER

DATE

SUSAN L. MATZAT, P.E.  
LABELLA ASSOCIATES, D.P.C.  
N.Y.S.P.E. LICENSE NO. 069227

DATE

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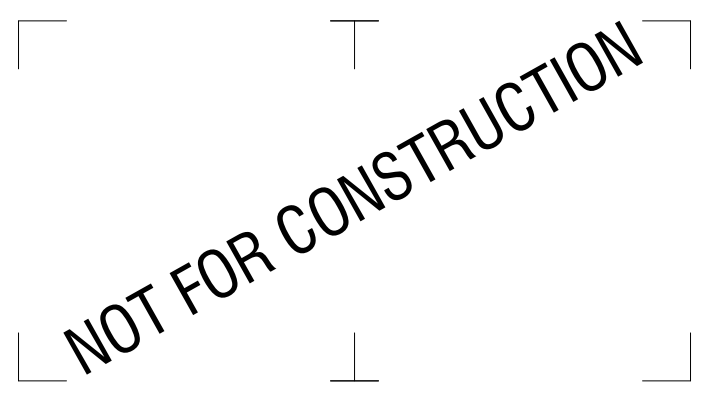
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Revisions		

PROJECT NUMBER: 2170391

DRAWN BY: MML  
 REVIEWED BY: JMG

ISSUED FOR: 35% PRELIMINARY DESIGN

DATE: JULY 2018

DRAWING NAME:

**PROJECT INFORMATION & DRAWING INDEX**

DRAWING NUMBER:

**G-001**

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NOTE:  
1. BASEMAPMING IS IN PRELIMINARY CONDITION AND NOT TO BE CONSIDERED AN ACCURATE DEPICTION OF EXISTING CONDITIONS.

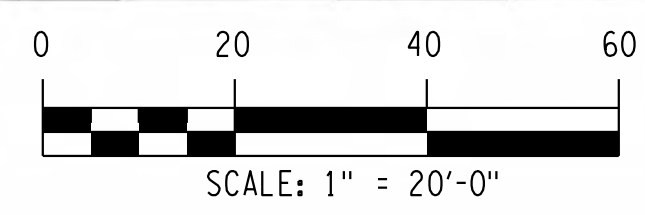
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REVIEWED BY: R.C.B.		
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DATE: JULY 2018		
DRAWING NAME:		

**ROADWAY PLAN**

DRAWING NUMBER:

**PL-1**



NOTE:  
1. SEE LANDSCAPE DRAWINGS FOR SURFACE MATERIAL LAYOUT AND DETAILS.

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DRAWING NAME:		

**PEDESTRIAN  
DETOUR AND  
LIBRARY ACCESS -  
PHASE 1**

DRAWING NUMBER:

**WZTC-1**



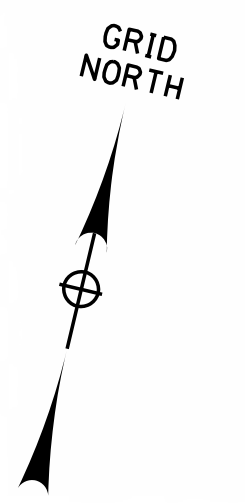
**LEGEND**

- BARREL
- ↔ PEDESTRIAN ROUTE
- ▨ WORK ZONE CLOSURE
- ⊥ TYPE III BARRICADE

NOTE:  
1. EASTBOUND RIGHT TURN LANE ON BROAD STREET TO BE CLOSED. EASTBOUND THRU LANE TO BE TEMPORARILY CONVERTED TO THRU RIGHT.

0 20 40 60  
SCALE: 1" = 20'-0"

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**PEDESTRIAN  
DETOUR AND  
LIBRARY ACCESS -  
PHASE 2**

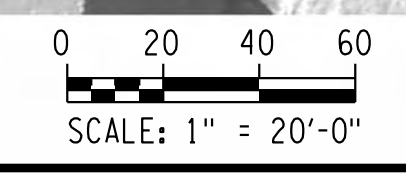
DRAWING NUMBER:

**WZTC-2**

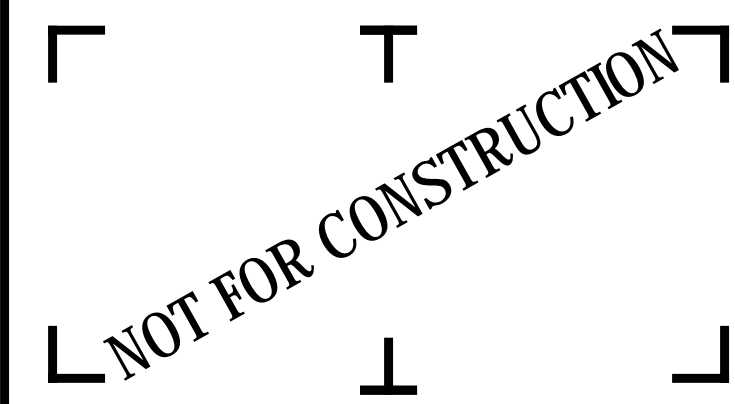


**LEGEND**

	BARREL
	PEDESTRIAN ROUTE
	WORK ZONE CLOSURE
	TYPE III BARRICADE



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 C:\Users\jgorman\Documents\BentLay\Files\2170391 - RunDel Library Phase IV - R18\_jgorman.rvt



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Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE  
GENERAL NOTES,  
ABBREVIATIONS, AND LEGEND**

DRAWING NUMBER:

**L-001**

**PLANTING NOTES:**

- REFER TO SPECIFICATION DIVISION 32 FOR ADDITIONAL PLANTING REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ACTUAL GRADE ELEVATIONS, SERVICE AND UTILITY LOCATIONS, AND DIMENSIONS OF PLANTINGS AND CONSTRUCTION CONTIGUOUS WITH NEW PLANTINGS BY FIELD MEASUREMENTS BEFORE PROCEEDING WITH PLANTING WORK.
- PLANT TREES, SHRUBS, AND OTHER PLANTS AFTER FINISH GRADES ARE ESTABLISHED AND BEFORE PLANTING TURF AREAS UNLESS OTHERWISE INDICATED.
- ALL BED CONFIGURATIONS AND PLANT POSITIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- CONTRACTOR IS REQUIRED TO LAY-OUT INDIVIDUAL TREE AND SHRUB LOCATIONS AND PLANTING AREAS FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF PLANTINGS. CONTRACTOR SHALL ADJUST THE PLANT LOCATIONS IF DEEMED NECESSARY BY THE LANDSCAPE ARCHITECT.
- ALL "STANDARD LAWN AREAS" AND "SPECIALIZED LAWN AREAS" SHALL RECEIVE THE SOIL TYPE AND SOIL DEPTH SPECIFIED, AND SHALL BE FINE GRADED AND SEEDED. (SEE SPECIFICATIONS FOR SEED AND SOIL REQUIREMENTS)
- ALL PLANTS MUST MEET OR EXCEED THE STANDARDS OUTLINED IN THE CURRENT EDITION OF ANSI Z260.1, THE AMERICAN STANDARD FOR NURSERY STOCK.
- THE CONTRACTOR SHALL SUBMIT A COMPLETE PLANT LIST (PURCHASE ORDER) TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PURCHASING THE PLANT MATERIAL. NO PLANT MATERIAL SHALL BE DELIVERED TO THE SITE PRIOR TO THE INSPECTION AND APPROVAL OF THE PLANTS AT THE CONTRACTOR'S PLACE OF BUSINESS.
- CONTRACTOR SHALL PROTECT PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS AND OPERATIONS OF OTHER CONTRACTORS AND TRADES. MAINTAIN PROTECTION AND WATERING DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
- TOPSOIL AND ORGANIC MATERIAL SOURCES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND APPROVALS.
- CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT OF UNEXPECTED ROCK OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED IN EXCAVATIONS.
- ALL PLANTS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS FROM THE DATE OF ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL PLANTING BEDS SHALL RECEIVE A 3" DEPTH OF AGED DOUBLE GROUND, SHREDED HARDWOOD BARK MULCH. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL.
- REFER TO THE PLANTING DETAILS AND SPECIFICATIONS FOR COMPLETE PLANT, SOIL, MULCH AND INSTALLATION REQUIREMENTS.

**GRADING AND DRAINAGE NOTES:**

- ALL PROPOSED ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL ESTABLISH FINISH GRADE STAKES IN ACCORDANCE WITH THIS PLAN (AND IN CONJUNCTION WITH THE LAYOUT PLAN) AND SHALL BE REVIEWED WITH THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION. MAINTAIN GRADE STAKES THROUGHOUT THE CONSTRUCTION PROCESS.
- ANY DISCREPANCIES IN PROPOSED ELEVATIONS NOTED BY THE CONTRACTOR DURING THE CONSTRUCTION PROCESS SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR DECISION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING POSITIVE DRAINAGE IN ALL AREAS AND MAKE CERTAIN ALL WATER (DRAINAGE) IS DIRECTED AWAY FROM BUILDINGS AND STRUCTURES. ALL NEWLY GRADED GROUND SURFACES SHALL BE FINISHED TO UNIFORM GRADES AND SLOPED IN SUCH A MANNER AS TO DRAIN PROPERLY AND BE FREE OF DEPRESSIONS THAT CAUSE AREAS OF STANDING WATER. THE CONTRACTOR SHALL REPORT ANY CONFLICTS WITH THIS REQUIREMENT TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO FINAL GRADING OPERATIONS.
- WHERE PROPOSED GRADE MEETS EXISTING, BLEND GRADES TO PROVIDE A SMOOTH TRANSITION. PERFORM GRADING WITHIN CONTRACT LIMITS OF WORK, INCLUDING ADJACENT TRANSITION AREAS, TO NEW ELEVATIONS, LEVELS, PROFILES, AND CONTOURS INDICATED.
- PROVIDE SUBGRADE SURFACES PARALLEL TO FINISHED SURFACE GRADES. MAINTAIN LEVELS, PROFILES AND CONTOURS OF SUBGRADES.
- ALL GRADING OPERATIONS WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN SHALL BE COMPLETED BY HAND AND WITH EXTREME CARE TO AVOID DAMAGE TO TREE ROOTS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DISTURBANCE OF, OR DAMAGE TO, EXISTING PLANTS TO REMAIN. PLACE VEGETATION PROTECTION FENCING AROUND ALL PLANTS ON AREAS OF PLANTING AS IDENTIFIED IN THE SITE PREPARATION DRAWINGS.
- ALL FILL AND BACKFILL MATERIALS MUST BE THOROUGHLY COMPACTED AS THEY ARE PLACED. REFER TO THE TECHNICAL SPECIFICATIONS FOR DETAILED INFORMATION, INCLUDING COMPACTION INFORMATION INCLUDING THE MAXIMUM LOOSE DEPTH LAYER THICKNESS ALLOWABLE, AND THE PERCENTAGE OF MAXIMUM DRY DENSITY REQUIREMENTS FOR THE FILLING AND BACK-FILLING OPERATIONS.
- REFER TO THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELEVANT TO DRAINAGE, GRADING AND OTHER EARTHWORK OPERATIONS.
- ADJUST THE HEIGHT OF ALL UTILITY FRAMES, GRATES, VALVES, HYDRANTS, AND ANY OTHER UTILITY STRUCTURE OR COMPONENTS AS REQUIRED TO ACHIEVE THE PROPER RELATIONSHIP TO THE PROPOSED FINISHED GRADES.
- UTILITY INSTALLATIONS MUST COMPLY WITH ALL NATIONAL, STATE AND LOCAL BUILDING CODES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OFF ALL CUT AND FILL OPERATIONS AND MATERIALS NECESSARY TO ACHIEVE THE ELEVATIONS SPECIFIED ON THIS PLAN, INCLUDING THE OFF SITE DISPOSAL OF ANY EXCESS MATERIAL IN A LEGAL MANNER.
- THE CONTRACTOR SHALL CLEAN AND FLUSH CULVERTS, PIPING, CATCH BASINS, MANHOLES, OR ANY OTHER STORM DRAINAGE SYSTEM COMPONENTS WITHIN THE PROJECT AREA, PRIOR TO COMPLETION OF WORK.
- DO NOT WORK WITH WET, MUDDY SOIL. PLACE SOIL DURING DRY WEATHER.
- PROTECT FINISH GRADED AREAS FROM TRAFFIC AND EROSION. KEEP FREE OF TRASH AND DEBRIS. REPAIR AND RE-ESTABLISH GRADES IN SETTLED, ERODED AND DAMAGED AREAS. WHERE COMPLETED AREAS ARE DISTURBED BY CONSTRUCTION OPERATIONS OR ADVERSE WEATHER, SCARIFY, RE-SHAPE AND COMPACT TO REQUIRED DENSITY, AS PER TECHNICAL SPECIFICATIONS

**MATERIAL AND LAYOUT NOTES:**

- PROPOSED SITE FEATURES SHALL BE STAKED OUT BY A NYS LICENSED LAND SURVEYOR IN ACCORDANCE WITH THE LAYOUT AND GRADING PLANS AND SHALL BE REVIEWED WITH THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT PRIOR TO THE START OF CONSTRUCTION, WHERE POSSIBLE. LAYOUT STAKES SHALL REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION PROCESS, REPLACE AS REQUIRED.
- CONTRACTOR SHALL FIELD VERIFY ALL LAYOUT DIMENSIONS. CONTRACTOR SHALL ADHERE TO WRITTEN DIMENSIONS ON ALL PLANS. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR DECISION.
- ADHERE TO WRITTEN DIMENSIONS. DO NOT SCALE THIS DRAWING OR CONSTRUCTION DETAILS.
- THE CONTRACTOR SHALL REFER ANY QUESTIONS REGARDING MATERIALS, FINISHES, LABOR, AND/OR PRODUCTS NOT SPECIFIED IN CONSTRUCTION DOCUMENTS TO THE LANDSCAPE ARCHITECT PRIOR TO ORDERING MATERIALS OR STARTING WORK.
- ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
- WHERE INCHES ARE NOT INDICATED, DIMENSIONS ARE IN INCREMENTS OF AN EVEN FOOT.
- FIELD MEASUREMENTS: TAKE ACCURATE FIELD MEASUREMENTS BEFORE PREPARATION OF SHOP DRAWINGS AND FABRICATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FEATURES SHOWN IN THIS DRAWINGS SET ARE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND STANDARDS.
- ALL DIMENSIONS TO OR FROM CURB LINES ARE MEASURED FROM THE EXPOSED FACE OF CURB OR FACE OF CURB ABUTTING PAVING, UNLESS OTHERWISE NOTED.
- REFER TO CONSTRUCTION DETAILS FOR ADDITIONAL LAYOUT INFORMATION.
- DIMENSIONS INDICATED ON PLANS ARE FOR HORIZONTAL CONTROL AND ARE ACCURATE IF MEASURED ON A LEVEL LINE. MEASURE HORIZONTAL CONTROL DIMENSIONS ON A LEVEL LINE NOT PARALLEL WITH GROUND SLOPE.
- PROVIDE SOURCES OF PROPOSED MATERIALS, ACCORDING TO SPECIFICATIONS, FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.

**GENERAL NOTES:**

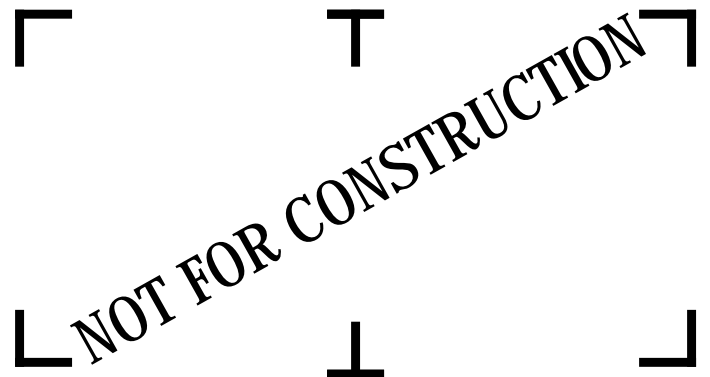
- THE HORIZONTAL AND VERTICAL LOCATION INFORMATION OF THE SITE EXISTING CONDITIONS WITHIN THIS DRAWING SET HAS BEEN OBTAINED FROM A CONSTRUCTION DOCUMENT SET ENTITLED RUNDEL PUBLIC LIBRARY, PREPARED BY PRUDENT ENGINEERING, DATED FEBRUARY 2017.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING AND PROPOSED HORIZONTAL AND VERTICAL LOCATION INFORMATION SHOWN ON THESE PLANS FOR BOTH BIDDING AND CONSTRUCTION PURPOSES. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES AND INFRASTRUCTURE FIELD LOCATED AND MARKED BY THE RESPONSIBLE PUBLIC OR PRIVATE AGENCY PRIOR TO THE START OF CONSTRUCTION, AND SHALL MAINTAIN ALL LOCATION STAKES AND MARKINGS THROUGHOUT THE CONSTRUCTION PROCESS.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, PIPE SIZES AND INVERT ELEVATIONS, OF ANY EXISTING SEWERS TO BE AFFECTED BY THE PROJECT.
- PROVIDE THE OWNER'S REPRESENTATIVE WITH AT LEAST SEVEN DAYS NOTICE FOR ANY REQUIRED INTERRUPTION OF A UTILITY SERVICE. WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE IS REQUIRED BEFORE THE UTILITY SERVICE CAN BE INTERRUPTED. A TEMPORARY SERVICE MAY BE REQUIRED BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PAVEMENT, CURBS, PLANTINGS, UTILITIES AND ANY OTHER EXISTING SITE FEATURES PROPOSED TO REMAIN, AS CAUSED BY CONSTRUCTION OR OTHER RELATED OPERATIONS. ALL SUCH DAMAGE SHALL BE REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOT DISTURB ANY AREAS OUTSIDE THE PROJECT LIMITS.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING TREES, SHRUBS AND GROUNDCOVERS WITHIN AND ADJACENT TO THE PROJECT SITE EXCEPT FOR THOSE SPECIFICALLY IDENTIFIED ON THESE PLANS AND APPROVED FOR REMOVAL IN THE FIELD BY THE OWNER'S REPRESENTATIVE. SEE TREE PROTECTION DETAIL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE IN A SAFE AND ORDERLY CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO PEDESTRIAN SAFETY ISSUES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, INCLUDING, BUT NOT LIMITED TO, BARRIERS AND OTHER DEVICES AS NECESSARY TO KEEP PEDESTRIANS SAFE FROM CONSTRUCTION OPERATIONS AND OUT OF THE CONSTRUCTION ZONE.
- THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN A NEAT AND ORDERLY STATE AND TAKE THE NECESSARY STEPS TO MINIMIZE THE MIGRATION OF DUST AND DEBRIS FROM THE PROJECT SITE, INCLUDING MEASURES AS REQUIRED BY THE SITE MANAGEMENT PLAN. CONSTRUCTION TRAVEL ROUTES AND ALL AREAS ADJACENT TO THE CONSTRUCTION SITE SHALL BE CHECKED DAILY AND CLEANED, AS NECESSARY, TO REMOVE ANY ACCUMULATION OF MUD, DUST OR OTHER CONSTRUCTION DEBRIS.
- PRIOR TO THE COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL CHECK AND CLEAN ALL MANHOLES, CATCH BASINS, DRAIN INLETS, AND OTHER SITE DRAINAGE SYSTEM COMPONENTS WITHIN THE PROJECT LIMITS AND IN THE DRAINAGE PATH OF THE PROJECT SITE SO THAT THEY ARE FREE FROM ALL DEBRIS, SILT, ETC.
- THE CONTRACTOR SHALL BE REQUIRED FOR OBTAINING ANY REQUIRED MUNICIPAL AND/OR LOCAL REGULATORY CONSTRUCTION PERMITS AND/OR INSPECTIONS.
- THE CONTRACTOR IS ADVISED TO CAREFULLY REVIEW ALL OF THE ADDITIONAL PROJECT REQUIREMENTS CONTAINED WITHIN THE PROJECT MANUAL, CITY OF ROCHESTER STANDARD CONSTRUCTION CONTRACT DOCUMENTS, AND THIS DRAWING SET.

**GENERAL CITY NOTES:**

- ALL FACILITIES TO BE CONSTRUCTED OR INSTALLED SHALL COMPLY WITH ALL THE LATEST REVISIONS AND APPLICABLE SECTIONS OF CITY OF ROCHESTER REGULATIONS.
- CONTRACTOR IS CAUTIONED TO NOTIFY CENTRAL STAKEOUT AT 1-800-962-7962 FOR LOCATION OF ANY UNDERGROUND UTILITIES BEFORE UNDERTAKING ANY CONSTRUCTION IN THIS AREA. R.P.W.D.
- ALL FILL AREAS SHALL BE COMPACTED TO 95% OF ORIGINAL DENSITY PER MODIFIED PROCTOR TEST. THIS SHALL BE CERTIFIED TO THE CITY OR ITS REPRESENTATIVE BY A LICENSED TESTING COMPANY.
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS OR OTHER APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SILTATION AND EROSION CONTROL MEASURES DURING THE ENTIRE PERIOD OF CONSTRUCTION AND UNTIL SUBSTANTIAL GROUND COVER HAS BEEN ESTABLISHED. IT IS RECOGNIZED THAT THESE CONTROLS MAY INTERFERE WITH CONSTRUCTION. IN THIS EVENT, ALTERNATE MEASURES AND/OR FACILITIES SHALL BE APPROVED BY THE CITY OR ITS REPRESENTATIVE.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT UTILITIES LINES SHOWN ON THE APPROVED DRAWINGS AND OTHER LINES NOT SHOWN HEREIN OR OF RECORD.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR ALL IMPROVEMENTS SHOWN ON THE APPROVED PLANS.
- HIGHWAY DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
- UPON COMPLETION OF THE PROJECT, AS-BUILT PLANS OF THE COMPLETED UTILITIES SHALL BE FURNISHED ON REPRODUCIBLE MATERIAL TO THE CITY, C.P.W. AND THE OWNER.

**ABBREVIATIONS:**

&	AND
@	AT
APPROX.	APPROXIMATE
ASPH.	ASPHALT
A.S.T.M.	AMERICAN SOCIETY OF TESTING AND MATERIALS
C.B.	CATCH BASIN
CL. / I	CENTER LINE
CLR.	CLEAR
CONC.	CONCRETE
C.O.	CLEAN OUT
D.I.	DRAIN INLET
E	ELECTRIC LINE
E.J.	EXPANSION JOINT
ELEV.	ELEVATION
EQ.	EQUAL
G	GAS LINE
G.V.	GAS VALVE
H.H.	HAND HOLE
H.P.	HIGH POINT
HYD.	HYDRANT
INV.	INVERT ELEVATION
I.J.	ISOLATION JOINT
LT.P.	LIGHT POLE / FIXTURE
+L.P.	LOW POINT
M.H.	MANHOLE
MIN.	MINIMUM
MAX.	MAXIMUM
M.W.	MONITORING WELL
N.Y.S.D.T.	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
P.B.	FULL BOX
P.L. / I	PROPERTY LINE
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF CURVATURE
P.O.T.	POINT OF TANGENT
P.P.	POWER POLE
PT.	POINT
P.V.C.	POLYVINYL CHLORIDE
R / RAD.	RADIUS
RGE	ROCHESTER GAS & ELECTRIC
S / SAN.	SANITARY SEWER
D / STM.	STORM SEWER / DRAIN
STD.	STANDARD
TEL.	TELEPHONE
TC / BC	TOP / BOTTOM OF CURB
T.H.	SOIL TEST HOLE
TR / BR	TOP / BOTTOM OF RAMP
TYP.	TYPICAL
W / WAT.	WATER LINE / SERVICE
W.V.	WATER VALVE
W /	WITH



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**CITY OF ROCHESTER**  
414 ANDREWS STREET  
ROCHESTER, NY 14604

**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

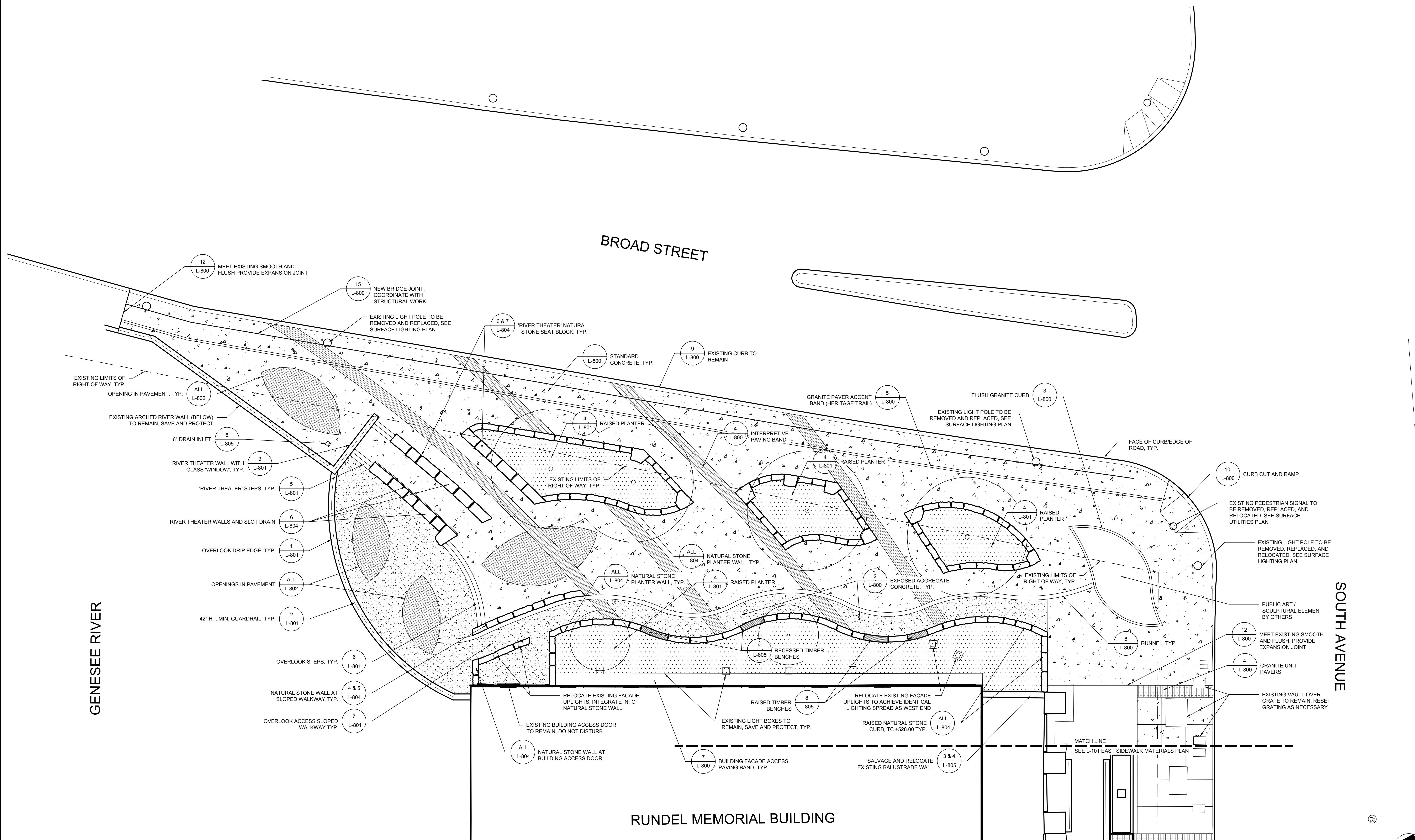
**NORTH TERRACE MATERIALS PLAN**

DRAWING NUMBER:

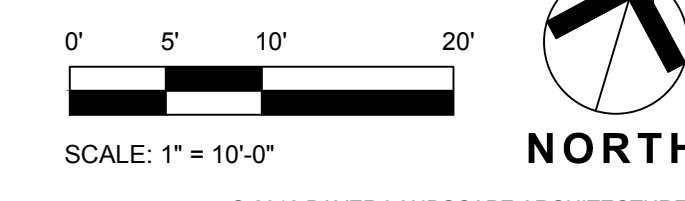
**L-100**

SYM	DESCRIPTION	DTL
	STANDARD CONCRETE	1 L-800
	EXPOSED AGGREGATE CONCRETE	2 L-800
	PLANTING AREA	4 L-801
	OPENINGS IN PAVEMENT	ALL L-802
	INTERPRETIVE PAVING BANDS	4 L-800
	GUARDRAIL	2 L-801
	SLOT DRAIN	6 L-804

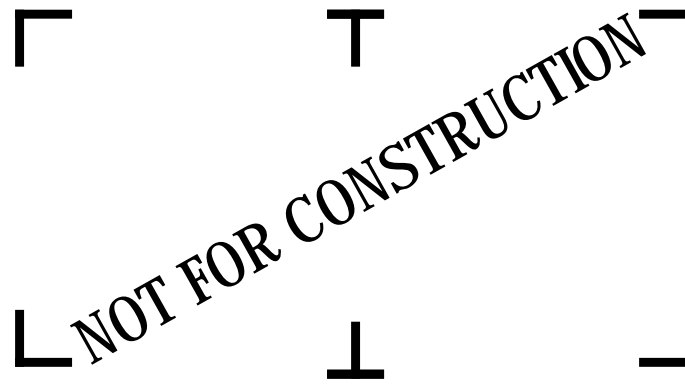
- MATERIALS NOTES:**
1. MAKE TRANSITIONS BETWEEN CHANGES IN PAVING MATERIALS / AREAS SMOOTH AND GRADUAL WITH NO SHARP OR ABRUPT CHANGES UNLESS OTHERWISE SHOWN
  2. CONTRACTOR SHALL SUBMIT A SCORING PATTERN LAYOUT PLAN WITH EXPANSION JOINTS LOCATED FOR ALL CONCRETE PAVEMENT TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  3. FOR INFORMATION ON STORM AND SANITARY SEWER, SEE ENGINEER'S DRAWINGS. FOR ALL ELECTRICAL WORK, SEE ELECTRICAL DRAWINGS.
  4. FOR ALL REMOVALS, SEE ENGINEER'S DWGS



**1 NORTH TERRACE MATERIALS PLAN**  
L-100 1" = 10'-0"



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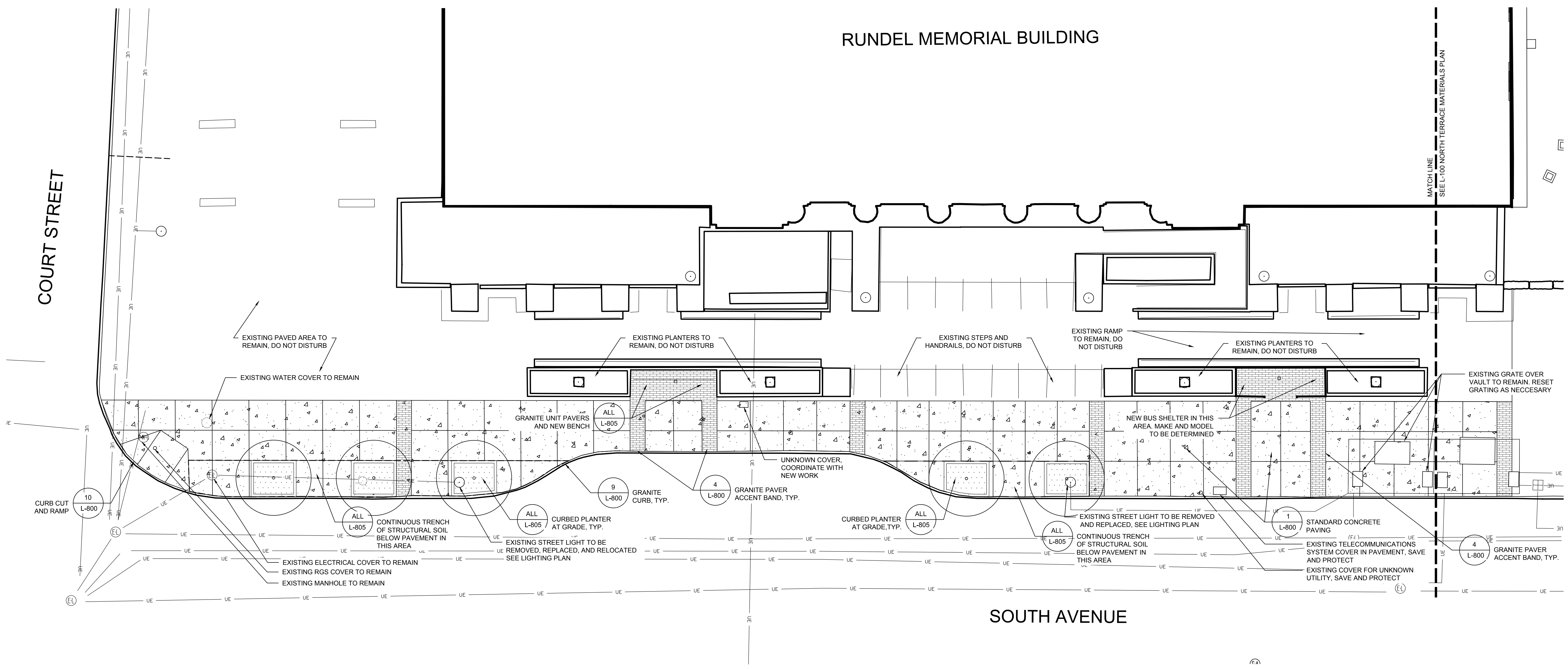
**EAST SIDEWALK MATERIALS PLAN**

DRAWING NUMBER:

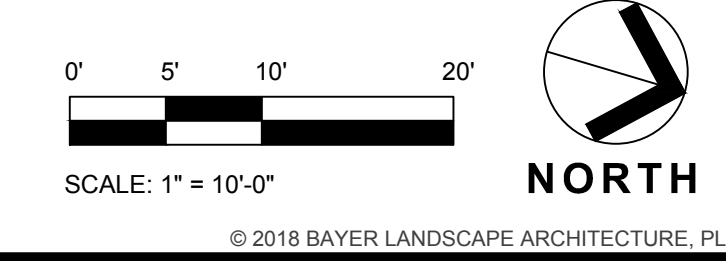
**L-101**

SYM	DESCRIPTION	DTL
	STANDARD CONCRETE	1 L-800
	PLANTING AREA	ALL L-805
	GRANITE UNIT PAVERS	4 L-800

- MATERIALS NOTES:**
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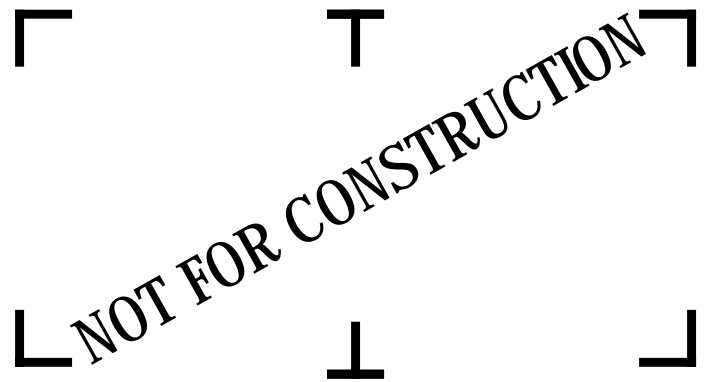


**EAST SIDEWALK MATERIALS PLAN**  
1  
L-101 1" = 10'-0"



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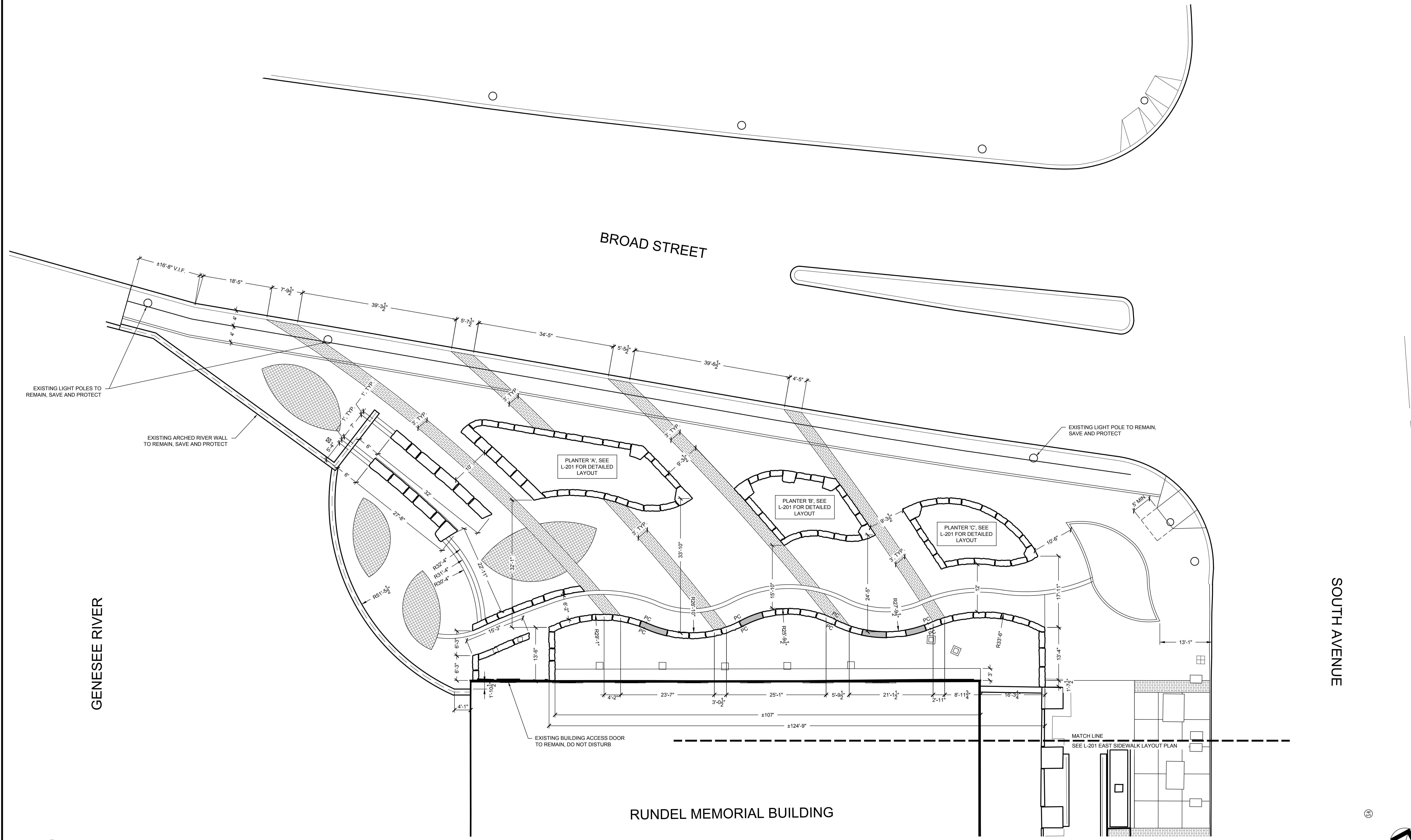
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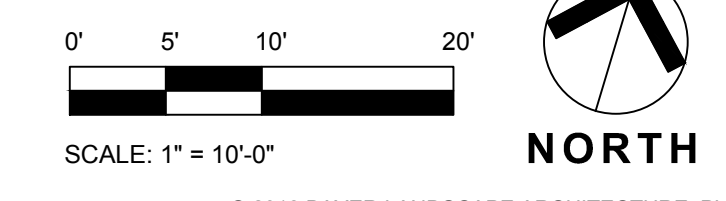
**L-200**

SYM	DESCRIPTION	DTL
$P_C$	POINT OF CURVE	
$P_T$	POINT OF TANGENCY	
X'-X'	DIMENSION	
R'-X'	RADIUS	
—C—	CENTER LINE	

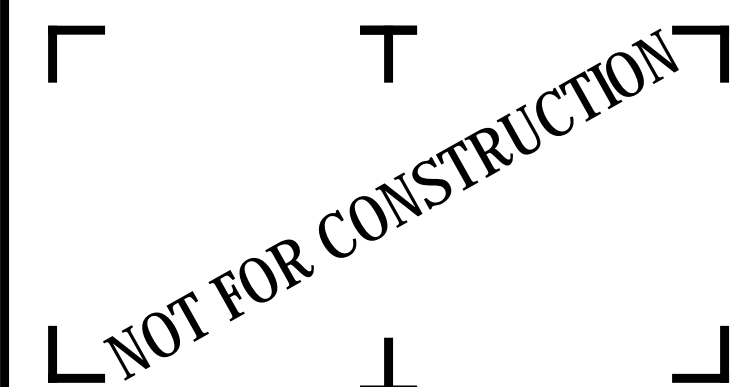
- LAYOUT NOTES:
1. MAKE TRANSITIONS BETWEEN CHANGES IN PAVING MATERIALS / AREAS SMOOTH AND GRADUAL WITH NO SHARP OR ABRUPT CHANGES UNLESS OTHERWISE SHOWN
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  3. FOR INFORMATION ON STORM AND SANITARY SEWER, SEE ENGINEER'S DRAWINGS
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**1 NORTH TERRACE LAYOUT PLAN**  
L-200 1" = 10'-0"



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DATE: JULY 2018		
DRAWING NAME:		

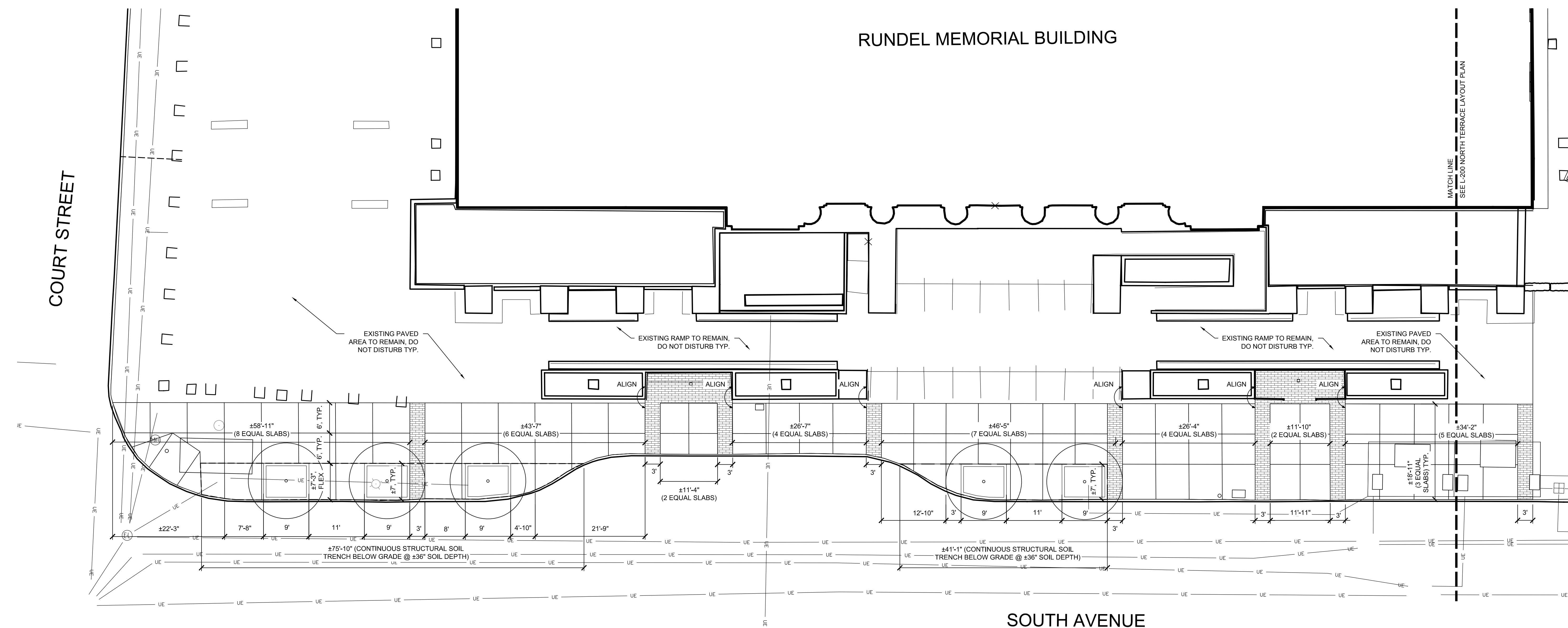
**EAST SIDEWALK LAYOUT PLAN**

DRAWING NUMBER:

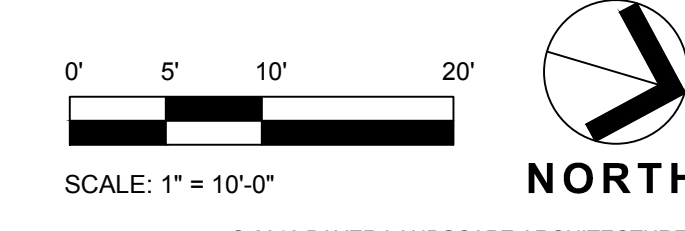
**L-201**

SYM	DESCRIPTION	DTL
$P_C$	POINT OF CURVE	
$P_T$	POINT OF TANGENCY	
X'-X'	DIMENSION	
RX'-X'	RADIUS	
—C—	CENTER LINE	
ALIGN	ALIGN	

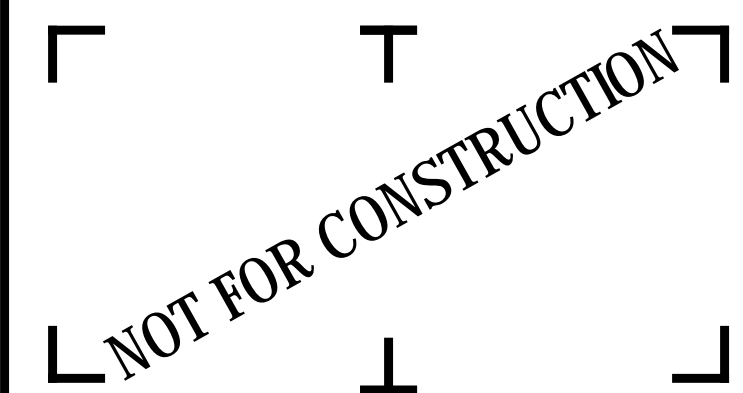
- LAYOUT NOTES:
1. MAKE TRANSITIONS BETWEEN CHANGES IN PAVING MATERIALS / AREAS SMOOTH AND GRADUAL WITH NO SHARP OR ABRUPT CHANGES UNLESS OTHERWISE SHOWN
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**EAST SIDEWALK LAYOUT PLAN**  
1  
1" = 10'-0"



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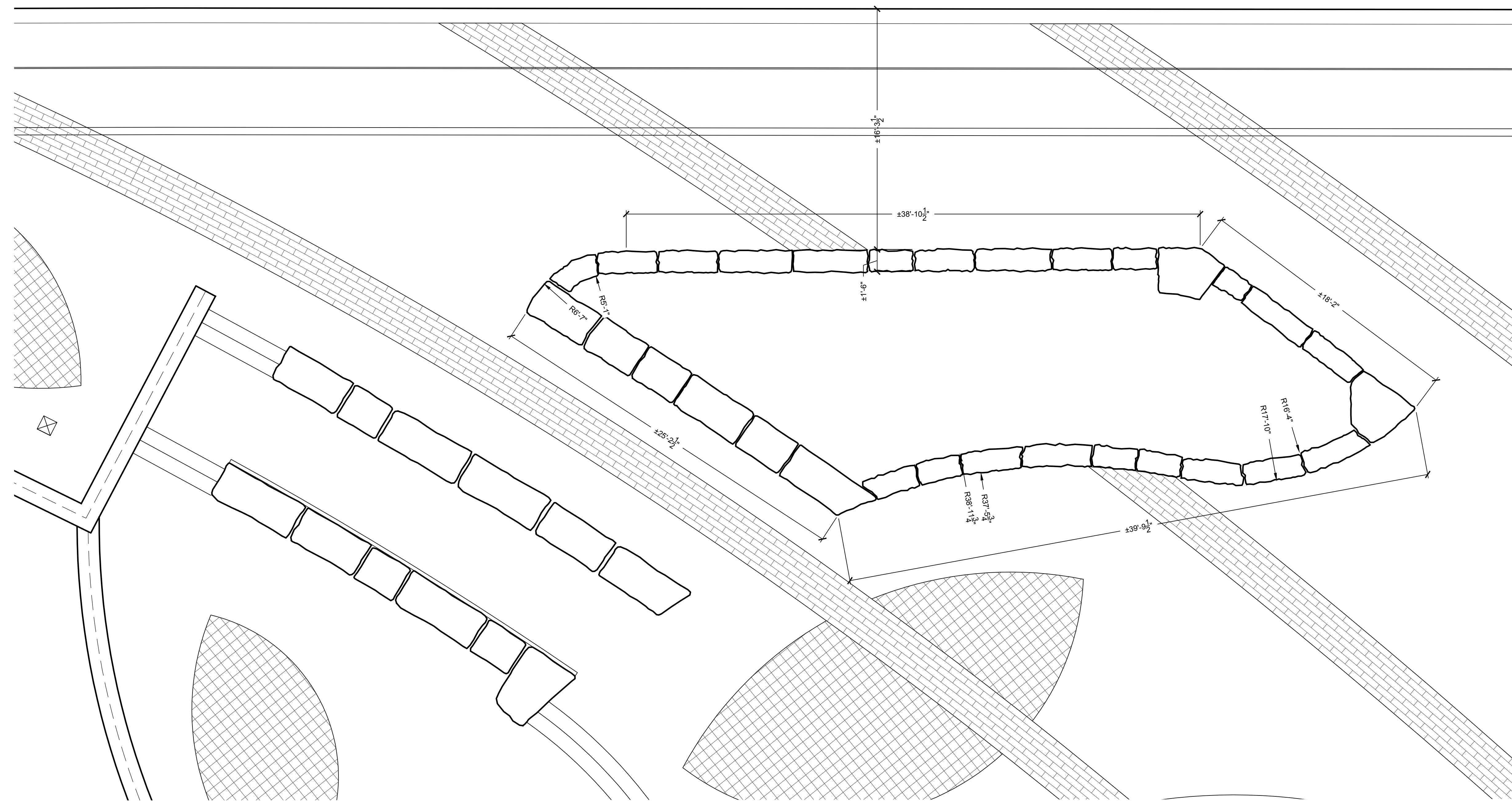
**NORTH TERRACE  
DETAILED LAYOUT PLANS**

DRAWING NUMBER:

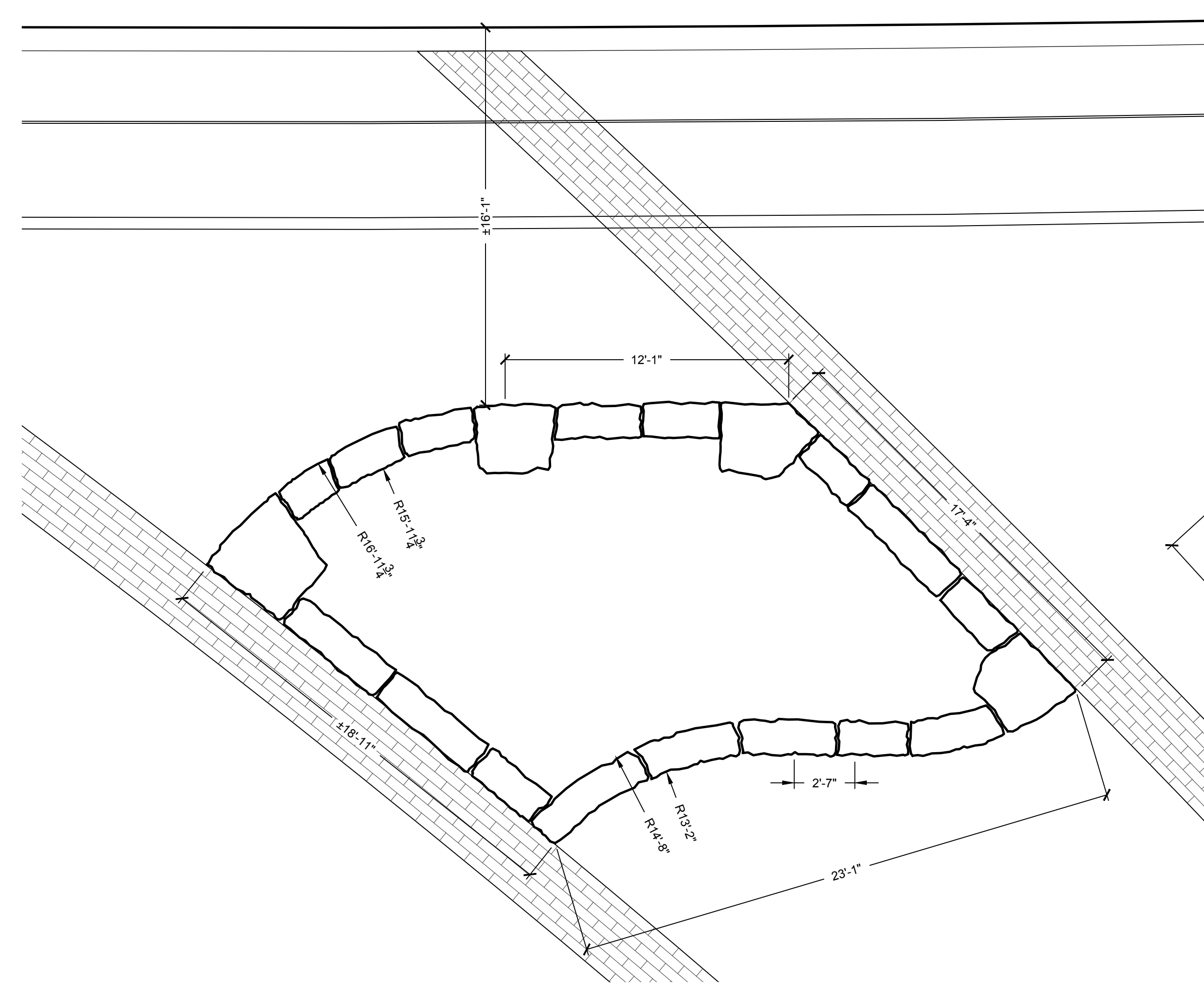
**L-202**

SYM	DESCRIPTION	DTL
$P_C$	POINT OF CURVE	
$P_T$	POINT OF TANGENCY	
X'-X'	DIMENSION	
R'-X'	RADIUS	
—C—	CENTER LINE	

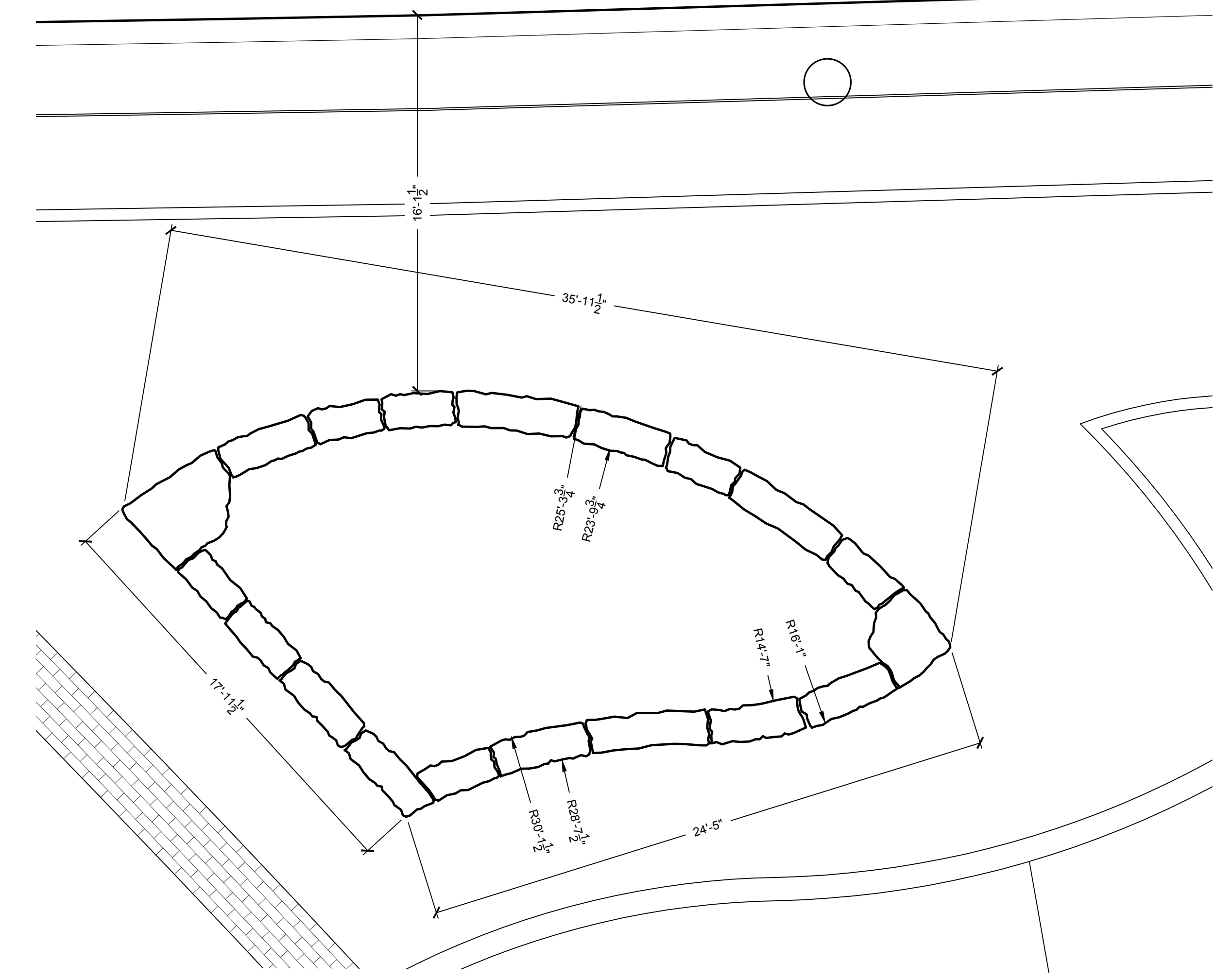
- LAYOUT NOTES:
1. MAKE TRANSITIONS BETWEEN CHANGES IN PAVING MATERIALS / AREAS SMOOTH AND GRADUAL WITH NO SHARP OR ABRUPT CHANGES UNLESS OTHERWISE SHOWN
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  4. FOR ALL ELECTRICAL WORK, SEE ELECTRICAL DRAWINGS.
  5. FOR ALL REMOVALS, SEE ENGINEER'S DRAWINGS.



**1 NORTH TERRACE DETAILED LAYOUT PLAN - PLANTER 'A'**  
1-202 1/4" = 1'-0"

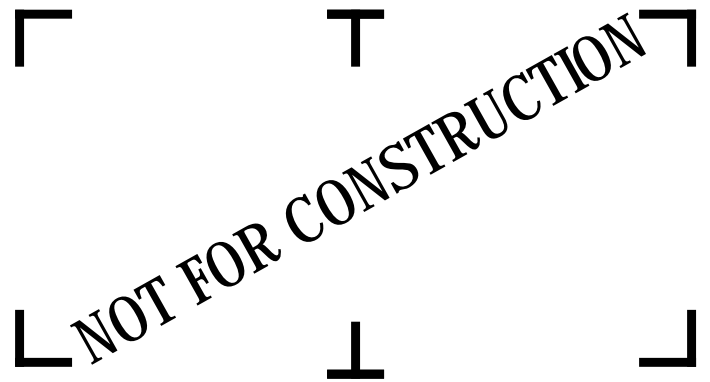


**2 NORTH TERRACE DETAILED LAYOUT PLAN - RIVER THEATER AND PLANTER 'B'**  
1-202 1/4" = 1'-0"



**3 NORTH TERRACE DETAILED LAYOUT PLAN - RIVER THEATER AND PLANTER 'C'**  
1-202 1/4" = 1'-0"

07/2018 9:06:51 AM  
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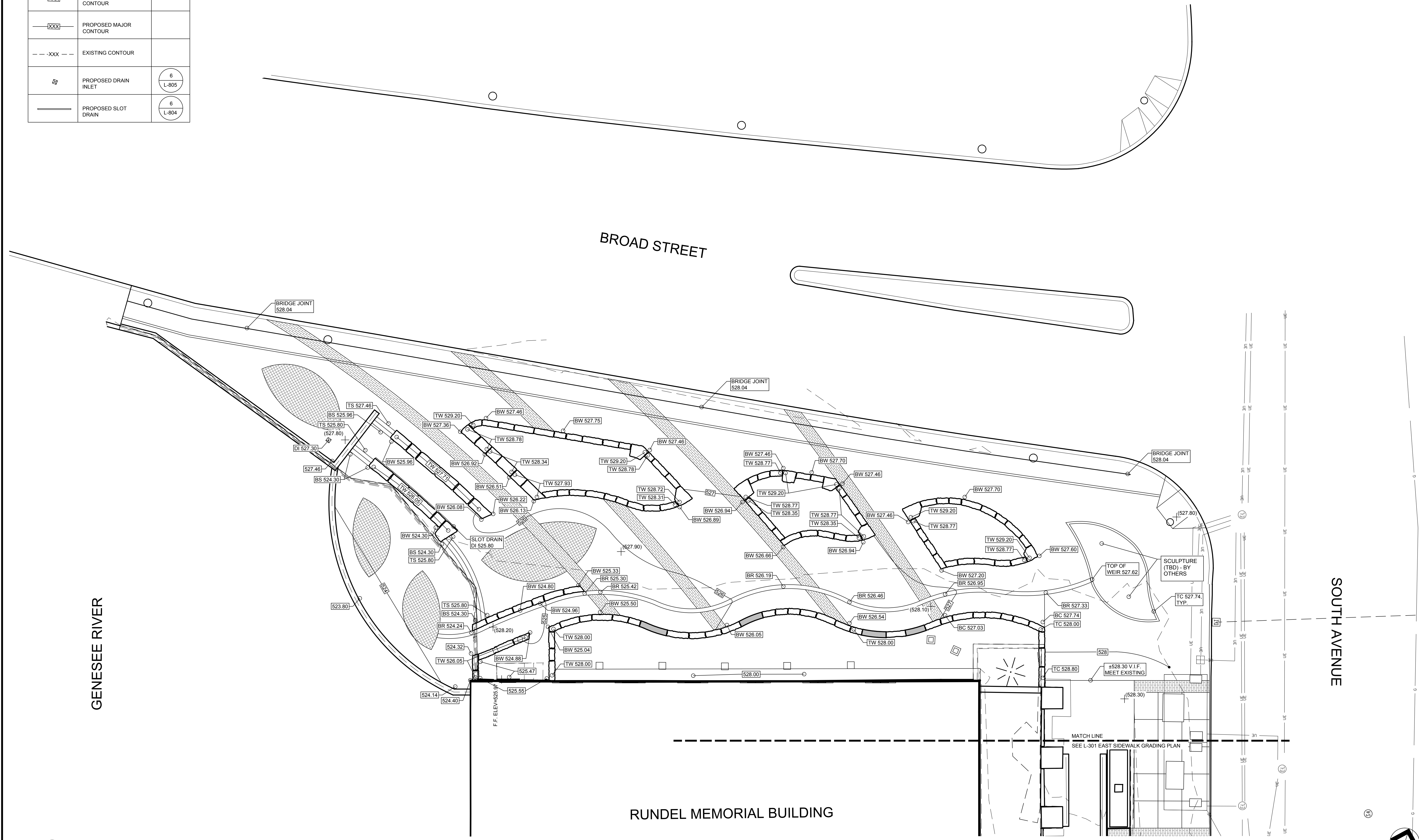
**NORTH TERRACE GRADING PLAN**

DRAWING NUMBER:

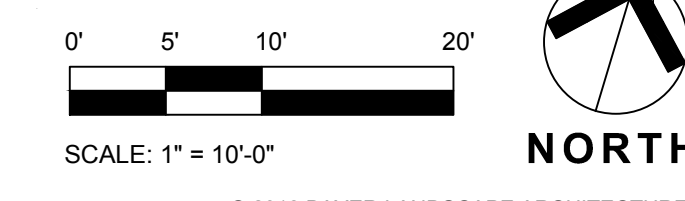
**L-300**

SYM	DESCRIPTION	DTL
XXX.XX	SPOT ELEVATION	
TS XXX.XX	TOP OF STEP	
BS XXX.XX	BOTTOM OF STEP	
TW XXX.XX	TOP OF WALL	
BW XXX.XX	BOTTOM OF WALL	
BR XXX.XX	RUNNEL ELEVATION	
+ (xxx.xx)	EXISTING SPOT ELEVATION	
---	PROPOSED MINOR CONTOUR	
---	PROPOSED MAJOR CONTOUR	
- - -	EXISTING CONTOUR	
⊕	PROPOSED DRAIN INLET	6 L-805
—	PROPOSED SLOT DRAIN	6 L-804

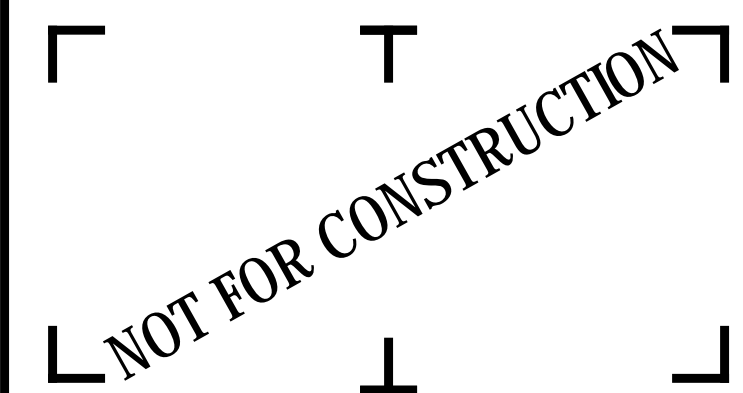
- GRADING NOTES:
- ALL PROPOSED ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
  - ANY DISCREPANCIES IN PROPOSED ELEVATIONS NOTED BY THE CONTRACTOR DURING THE CONSTRUCTION PROCESS SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR RESOLUTION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL AREAS, UNLESS OTHERWISE NOTED. ALL NEWLY GRADED GROUND SURFACES SHALL BE FINISHED TO UNIFORM GRADES AND SLOPED IN SUCH A MANNER AS TO DRAIN PROPERLY AND BE FREE OF DEPRESSIONS THAT CAUSE AREAS OF STANDING WATER. THE CONTRACTOR SHALL REPORT ANY CONFLICTS WITH THIS REQUIREMENT TO THE LANDSCAPE ARCHITECT FOR RESOLUTION PRIOR TO FINAL GRADING OPERATIONS.
  - WHERE PROPOSED GRADE MEETS EXISTING, BLEND GRADES TO PROVIDE A SMOOTH TRANSITION.
  - ADJUST THE HEIGHT OF ALL UTILITY FRAMES, GRATES, VALVES, HYDRANTS, AND ANY OTHER UTILITY STRUCTURE OR COMPONENTS AS REQUIRED TO ACHIEVE THE PROPER RELATIONSHIP TO THE PROPOSED FINISHED GRADES.
  - THE CONTRACTOR SHALL CLEAN AND FLUSH CULVERTS, PIPING, CATCH BASINS, MANHOLES, OR ANY OTHER STORM DRAINAGE SYSTEM COMPONENTS WITHIN THE PROJECT AREA, PRIOR TO COMPLETION OF WORK.



**1 NORTH TERRACE GRADING PLAN**  
L-300 1" = 10'-0"



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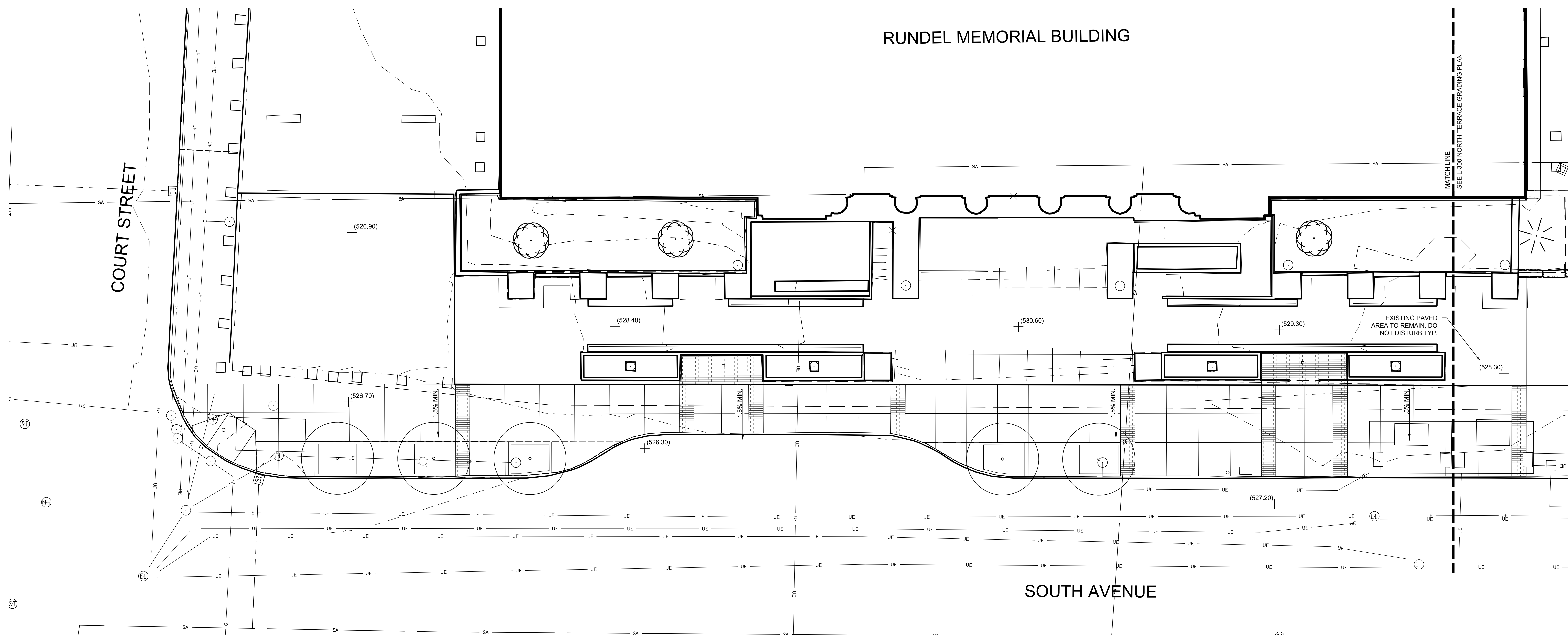
**EAST SIDEWALK GRADING PLAN**

DRAWING NUMBER:

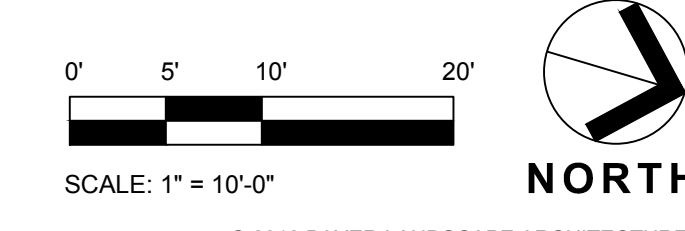
**L-301**

SYM	DESCRIPTION	DTL
XXXXXX	SPOT ELEVATION	
TS XXXXX	TOP OF STEP	
BS XXXXX	BOTTOM OF STEP	
TW XXXXX	TOP OF WALL	
BW XXXXX	BOTTOM OF WALL	
X.X%	SLOPE INDICATOR	
+ (xxx.xx)	EXISTING SPOT ELEVATION	
----	PROPOSED MINOR CONTOUR	
----	PROPOSED MAJOR CONTOUR	
- - - -	EXISTING CONTOUR	
⊕	PROPOSED DRAIN INLET	6 L-805
—	PROPOSED SLOT DRAIN	6 L-804

- GRADING NOTES:**
- ALL PROPOSED ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
  - ANY DISCREPANCIES IN PROPOSED ELEVATIONS NOTED BY THE CONTRACTOR DURING THE CONSTRUCTION PROCESS SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR RESOLUTION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL AREAS, UNLESS OTHERWISE NOTED. ALL NEWLY GRADED GROUND SURFACES SHALL BE FINISHED TO UNIFORM GRADES AND SLOPED IN SUCH A MANNER AS TO DRAIN PROPERLY AND BE FREE OF DEPRESSIONS THAT CAUSE AREAS OF STANDING WATER. THE CONTRACTOR SHALL REPORT ANY CONFLICTS WITH THIS REQUIREMENT TO THE LANDSCAPE ARCHITECT FOR RESOLUTION PRIOR TO FINAL GRADING OPERATIONS.
  - WHERE PROPOSED GRADE MEETS EXISTING, BLEND GRADES TO PROVIDE A SMOOTH TRANSITION.
  - ADJUST THE HEIGHT OF ALL UTILITY FRAMES, GRATES, VALVES, HYDRANTS, AND ANY OTHER UTILITY STRUCTURE OR COMPONENTS AS REQUIRED TO ACHIEVE THE PROPER RELATIONSHIP TO THE PROPOSED FINISHED GRADES.
  - THE CONTRACTOR SHALL CLEAN AND FLUSH CULVERTS, PIPING, CATCH BASINS, MANHOLES, OR ANY OTHER STORM DRAINAGE SYSTEM COMPONENTS WITHIN THE PROJECT AREA, PRIOR TO COMPLETION OF WORK.



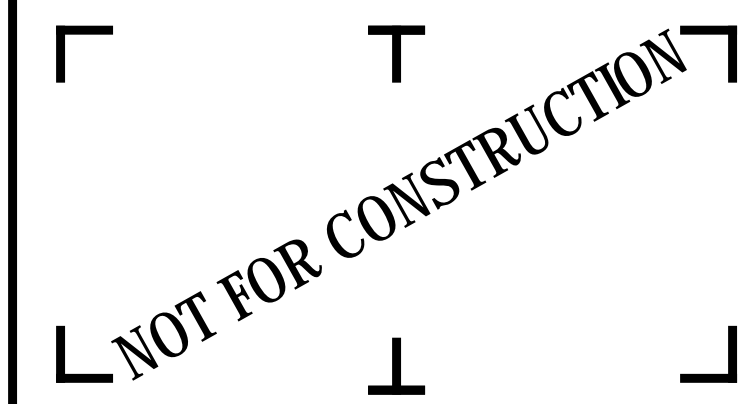
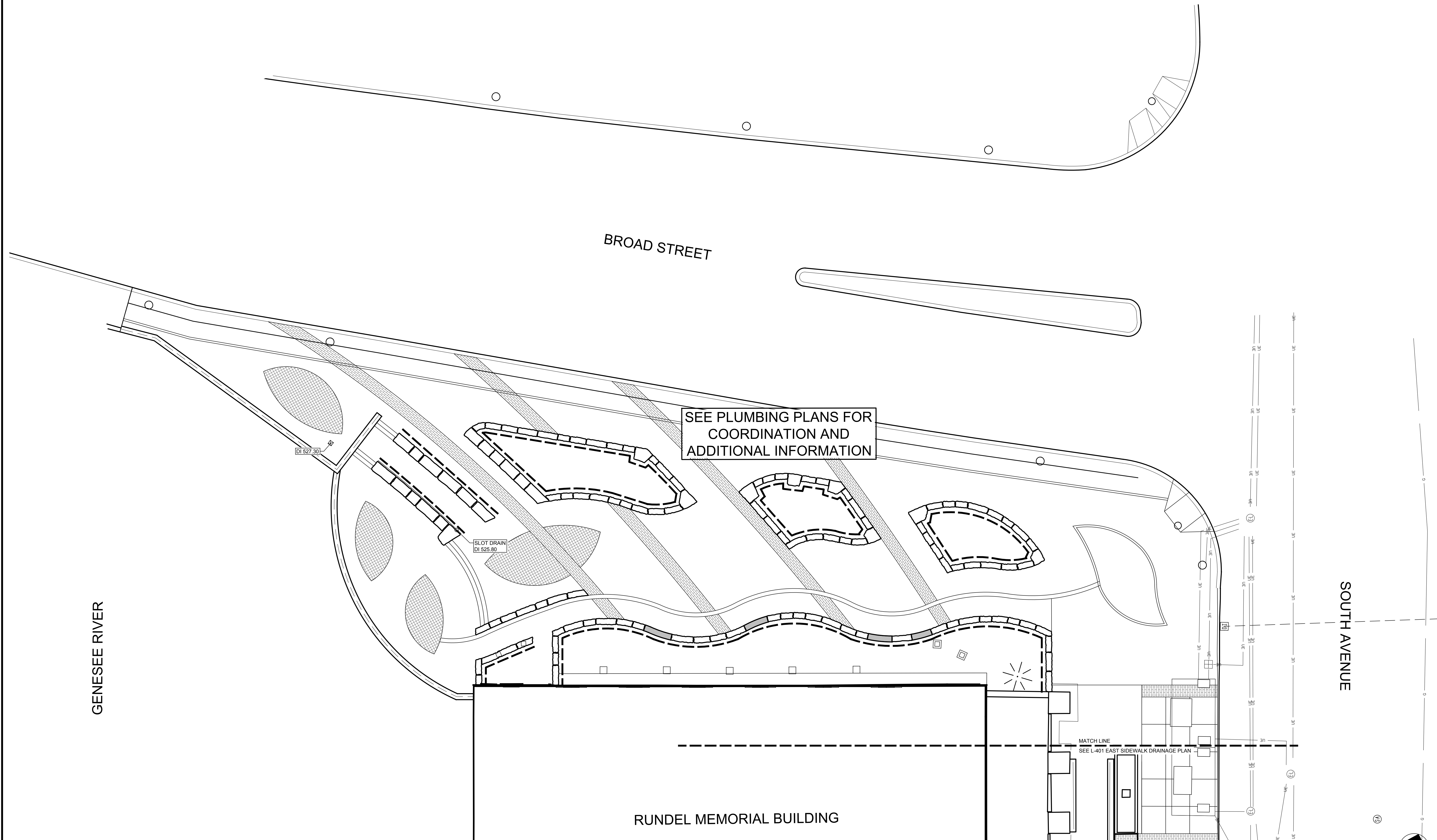
**EAST SIDEWALK GRADING PLAN**  
L-301 1" = 10'-0"



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SYM	DESCRIPTION	DTL
	DRAIN INLET	
	WALL BACK DRAIN	
	FLOW OF WATER	

- DRAINAGE NOTES:**
- PRIOR TO STARTING WORK ON THE STORM DRAINAGE SYSTEM, THE CONTRACTOR SHALL VERIFY THE LOCATION AND OUTFALL INVERT ELEVATIONS OF ALL EXISTING SEWERS AND DRAINAGE STRUCTURES THAT THE NEW DRAINAGE MUST TIE INTO. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY REQUIRED CHANGES TO THE NEW DRAINAGE SYSTEM TO MAINTAIN THE PROPER FLOWS.
  - BEFORE STARTING WORK ON THIS PROJECT, THE CONTRACTOR SHALL VERIFY THE DIRECTION OF FLOW AND POINTS OF CONNECTION FOR ALL EXISTING SITE/STORM DRAINAGE PIPING AND SANITARY SEWER PIPING (INCLUDING BUILDING DRAINAGE) IN THE VICINITY OF, AND/OR IMPACTED BY, THIS PROJECT. CONTRACTOR SHALL MAKE SURE THAT ALL SUCH SEWER AND DRAINAGE PIPING IS MAINTAINED AND TIED INTO THE REQUIRED SYSTEM PROPERLY AND IN COMPLIANCE WITH ALL APPLICABLE BUILDING AND PLUMBING CODES.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITIES AND UTILITY STRUCTURES. CONTACT APPROPRIATE UTILITY AGENCIES FOR STAKEOUT AND REVIEW OF UTILITIES AND INFRASTRUCTURE PRIOR TO THE START OF CONSTRUCTION.
  - MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18" MEASURED FROM THE OUTSIDE OF THE PIPE AT THE POINT OF CROSSING, (INCLUDING MANHOLES & VAULTS) SHALL BE 10" MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS. ONE-FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE SEPARATED AS FAR AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECT FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN.
  - THE CONTRACTOR SHALL NOTIFY MONROE COUNTY WATER AUTHORITY DISPATCH OFFICE OF ANY CONTACT MADE, IN THE COURSE OF CONSTRUCTION, WITH ANY WATER AUTHORITY FACILITY.
  - CONTRACTOR SHALL FLUSH AND CLEAN ALL EXISTING AND NEW STORM DRAINAGE STRUCTURES, AND PIPES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF CONSTRUCTION.
  - REFER TO PLUMBING DRAWINGS FOR COORDINATION AND ADDITIONAL INFORMATION.



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**CITY OF ROCHESTER**  
414 ANDREWS STREET  
ROCHESTER, NY 14604

**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

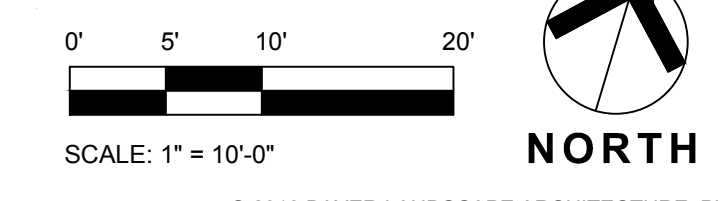
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE DRAINAGE PLAN**

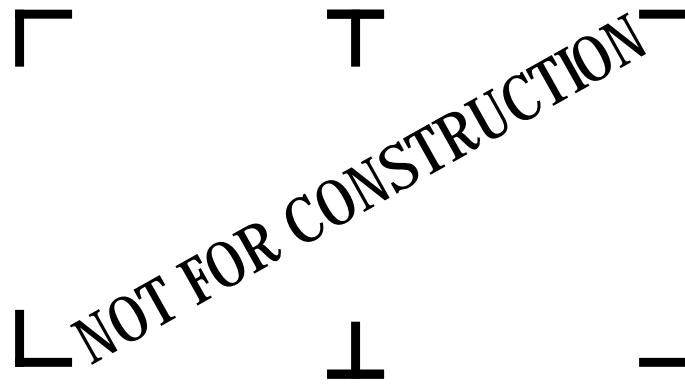
DRAWING NUMBER:

**L-400**

**1 NORTH TERRACE DRAINAGE AND UTILITY PLAN**  
L-400 1" = 10'-0"



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**RUNDEL LIBRARY PHASE IV**  
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NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

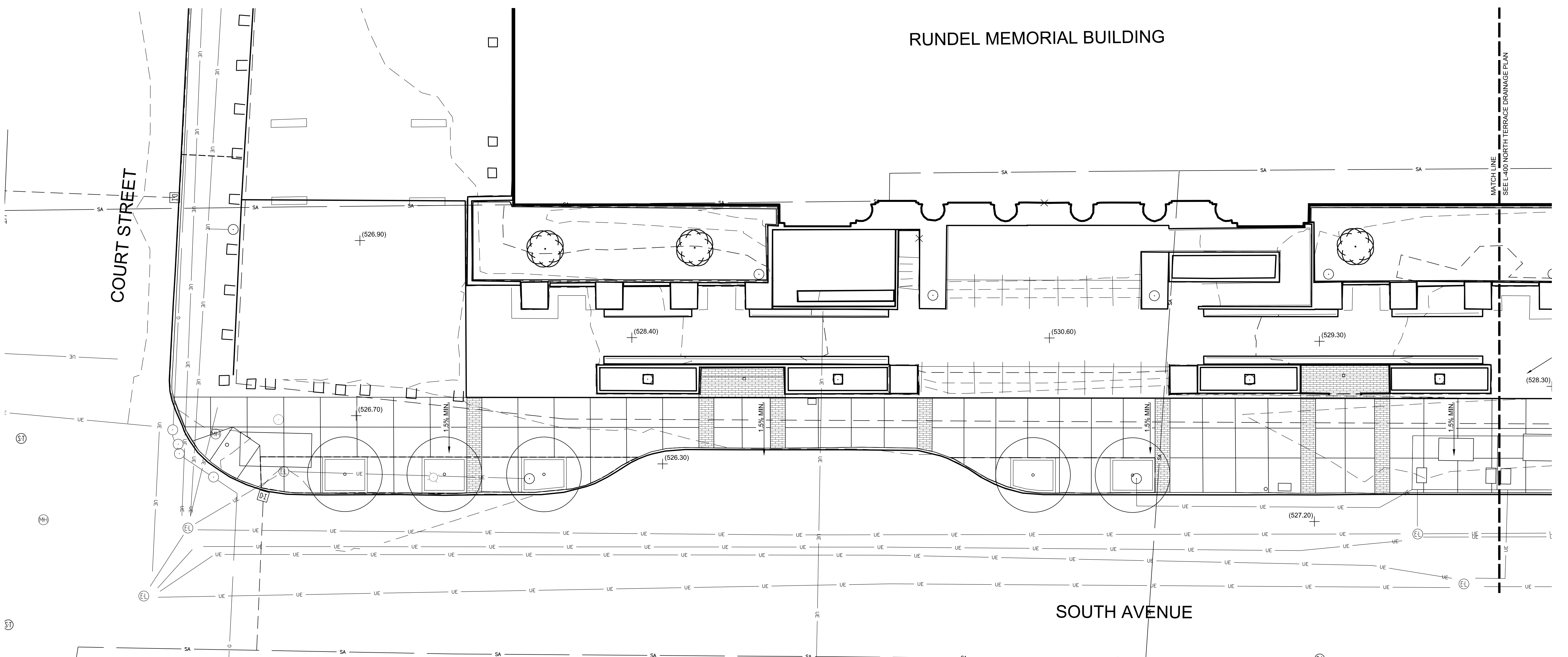
**EAST SIDEWALK DRAINAGE PLAN**

DRAWING NUMBER:

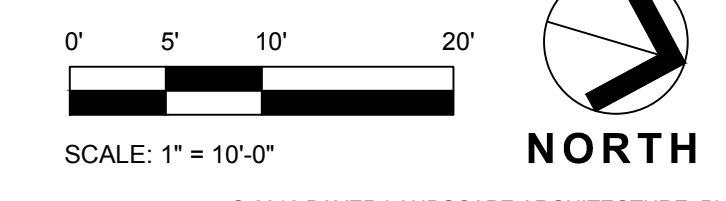
**L-401**

SYM	DESCRIPTION	DTL
	DRAIN INLET	
	WALL BACK DRAIN	
	FLOW OF WATER	

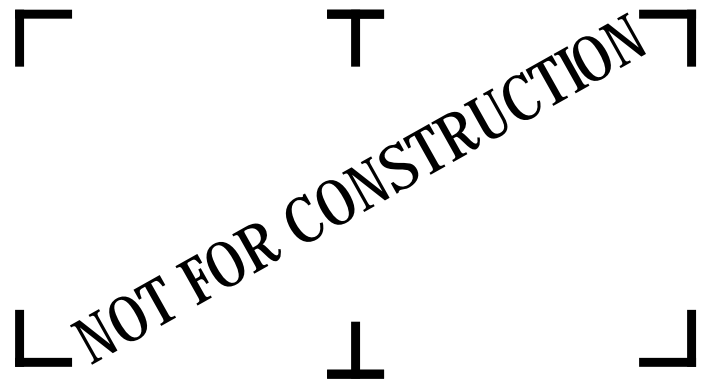
- DRAINAGE NOTES:**
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  - BEFORE STARTING WORK ON THIS PROJECT, THE CONTRACTOR SHALL VERIFY THE DIRECTION OF FLOW AND POINTS OF CONNECTION FOR ALL EXISTING SITE/STORM DRAINAGE PIPING AND SANITARY SEWER PIPING (INCLUDING BUILDING DRAINAGE) IN THE VICINITY OF, AND/OR IMPACTED BY, THIS PROJECT. CONTRACTOR SHALL MAKE SURE THAT ALL SUCH SEWER AND DRAINAGE PIPING IS MAINTAINED AND TIED INTO THE REQUIRED SYSTEM PROPERLY AND IN COMPLIANCE WITH ALL APPLICABLE BUILDING AND PLUMBING CODES.
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  - CONTRACTOR SHALL FLUSH AND CLEAN ALL EXISTING AND NEW STORM DRAINAGE STRUCTURES, AND PIPES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF CONSTRUCTION.
  - REFER TO PLUMBING DRAWINGS FOR COORDINATION AND ADDITIONAL INFORMATION.



**EAST SIDEWALK DRAINAGE AND UTILITIES PLAN**  
1  
L-401 1" = 10'-0"



07/2018 0.003.17M  
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414 ANDREWS STREET  
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**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
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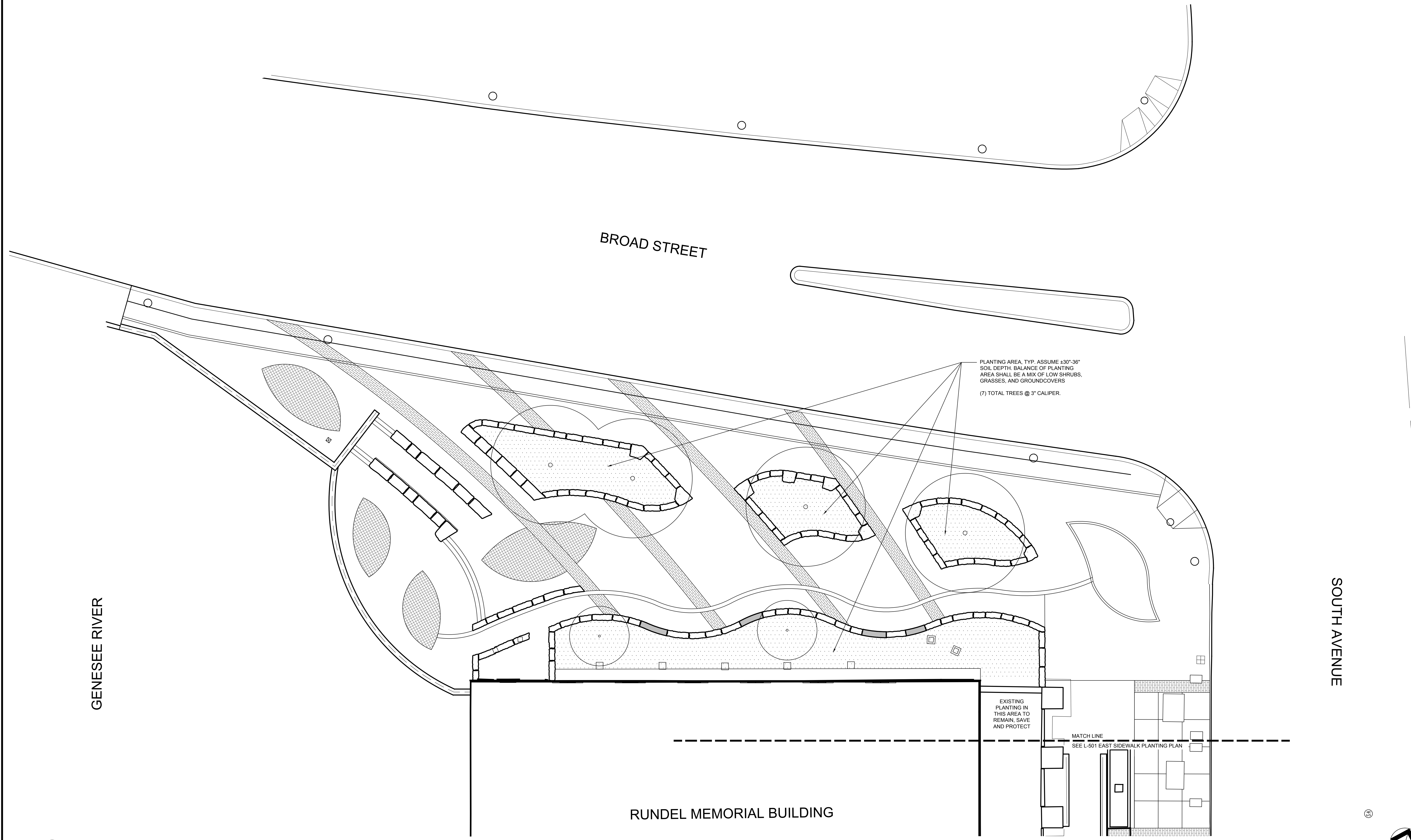
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE PLANTING PLAN**

DRAWING NUMBER:

**L-500**

PLANTING LEGEND		
SYM	DESCRIPTION	DTL
	PLANTING AREA	4 L-801
	PROPOSED TREE	4 L-801



PLANTING AREA, TYP. ASSUME ±30"-36"  
SOIL DEPTH. BALANCE OF PLANTING  
AREA SHALL BE A MIX OF LOW SHRUBS,  
GRASSES, AND GROUNDCOVERS  
(7) TOTAL TREES @ 3" CALIPER.

EXISTING  
PLANTING IN  
THIS AREA TO  
REMAIN, SAVE  
AND PROTECT

MATCH LINE  
SEE L-501 EAST SIDEWALK PLANTING PLAN

GENESEE RIVER

BROAD STREET

SOUTH AVENUE

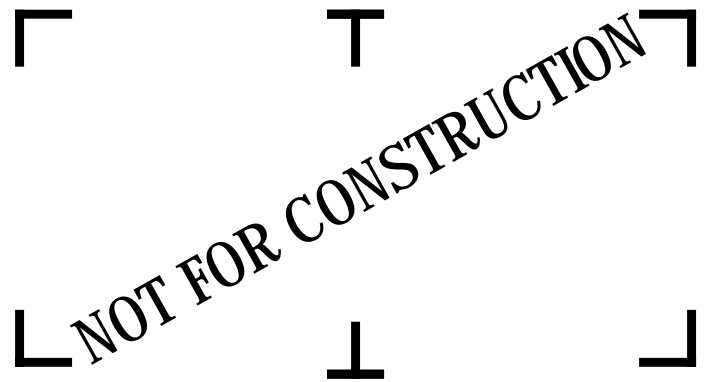
RUNDEL MEMORIAL BUILDING

**1**  
L-500  
NORTH TERRACE PLANTING PLAN  
1" = 10'-0"

0' 5' 10' 20'  
SCALE: 1" = 10'-0"







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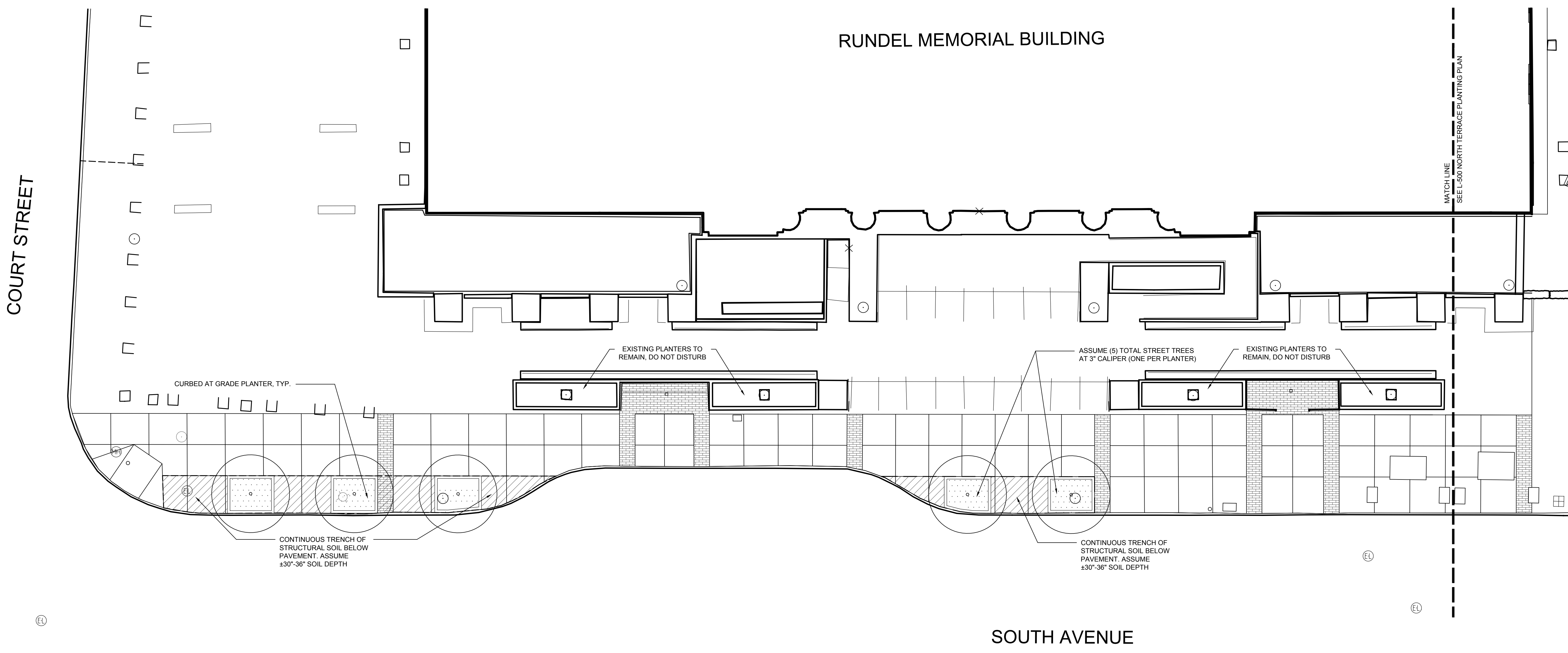
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DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**EAST SIDEWALK PLANTING PLAN**

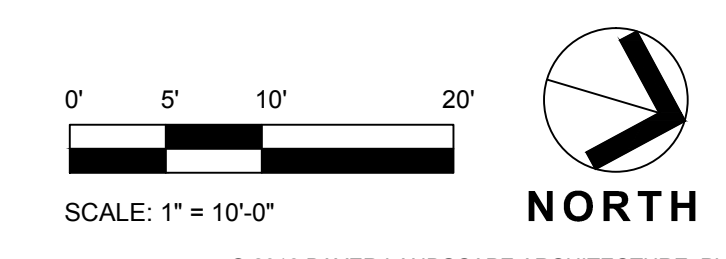
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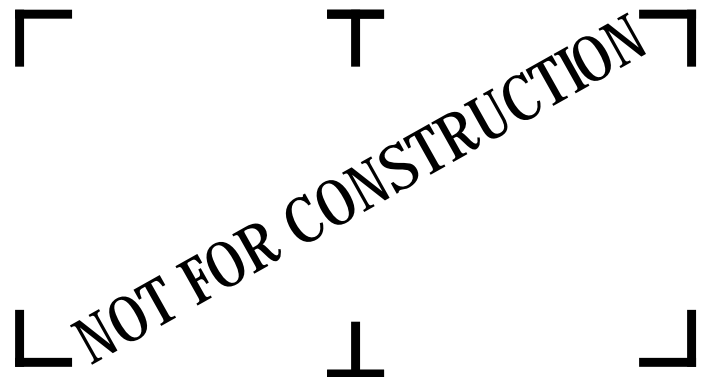
PLANTING LEGEND		
SYM	DESCRIPTION	DTL
	PLANTING AREA	
	PROPOSED TREE	



**EAST SIDEWALK PLANTING PLAN**  
1  
L-501 1" = 10'-0"



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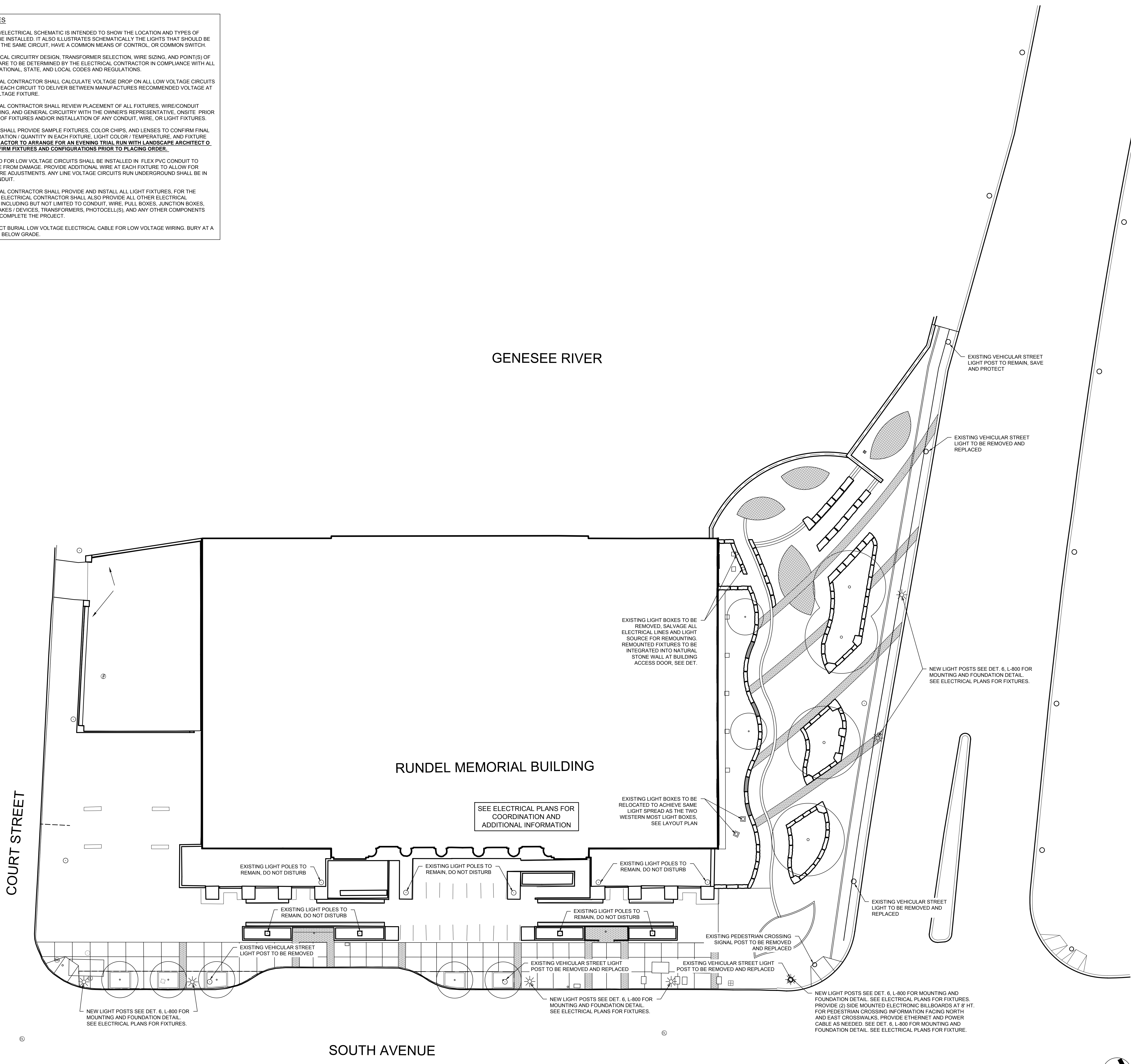
**LIGHTING PLAN - SURFACE**

DRAWING NUMBER:

**L-600**

SYM	DESCRIPTION	DTL
	PROPOSED STREET LIGHT	
	EXISTING STREET LIGHT	
	EXISTING LIGHT BOX	
	RELOCATED LIGHT BOX	

- LIGHTING NOTES**
- THIS LIGHTING/ELECTRICAL SCHEMATIC IS INTENDED TO SHOW THE LOCATION AND TYPES OF FIXTURES TO BE INSTALLED. IT ALSO ILLUSTRATES SCHEMATICALLY THE LIGHTS THAT SHOULD BE INSTALLED ON THE SAME CIRCUIT, HAVE A COMMON MEANS OF CONTROL, OR COMMON SWITCH.
  - FINAL ELECTRICAL CIRCUITRY DESIGN, TRANSFORMER SELECTION, WIRE SIZING, AND POINT(S) OF CONNECTION ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND REGULATIONS.
  - THE ELECTRICAL CONTRACTOR SHALL CALCULATE VOLTAGE DROP ON ALL LOW VOLTAGE CIRCUITS AND BALANCE EACH CIRCUIT TO DELIVER BETWEEN MANUFACTURERS RECOMMENDED VOLTAGE AT EACH LOW VOLTAGE FIXTURE.
  - THE ELECTRICAL CONTRACTOR SHALL REVIEW PLACEMENT OF ALL FIXTURES, WIRE/CONDUIT RUNS, SWITCHING, AND GENERAL CIRCUITRY WITH THE OWNER'S REPRESENTATIVE, ONSITE PRIOR TO ORDERING OF FIXTURES AND/OR INSTALLATION OF ANY CONDUIT, WIRE, OR LIGHT FIXTURES.
  - CONTRACTOR SHALL PROVIDE SAMPLE FIXTURES, COLOR CHIPS, AND LENSES TO CONFIRM FINAL LED CONFIGURATION / QUANTITY IN EACH FIXTURE, LIGHT COLOR / TEMPERATURE, AND FIXTURE FINISH. **CONTRACTOR TO ARRANGE FOR AN EVENING TRIAL RUN WITH LANDSCAPE ARCHITECT OR REVIEW / CONFIRM FIXTURES AND CONFIGURATIONS PRIOR TO PLACING ORDER.**
  - ALL WIRE USED FOR LOW VOLTAGE CIRCUITS SHALL BE INSTALLED IN FLEX PVC CONDUIT TO PROTECT WIRE FROM DAMAGE. PROVIDE ADDITIONAL WIRE AT EACH FIXTURE TO ALLOW FOR FUTURE FIXTURE ADJUSTMENTS. ANY LINE VOLTAGE CIRCUITS RUN UNDERGROUND SHALL BE IN RIGID PVC CONDUIT.
  - THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LIGHT FIXTURES. FOR THE PROJECT, THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL OTHER ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO CONDUIT, WIRE, PULL BOXES, JUNCTION BOXES, MOUNTING STAKES / DEVICES, TRANSFORMERS, PHOTOCELL(S), AND ANY OTHER COMPONENTS REQUIRED TO COMPLETE THE PROJECT.
  - PROVIDE DIRECT BURIAL LOW VOLTAGE ELECTRICAL CABLE FOR LOW VOLTAGE WIRING. BURY AT A MINIMUM OF 2' BELOW GRADE.

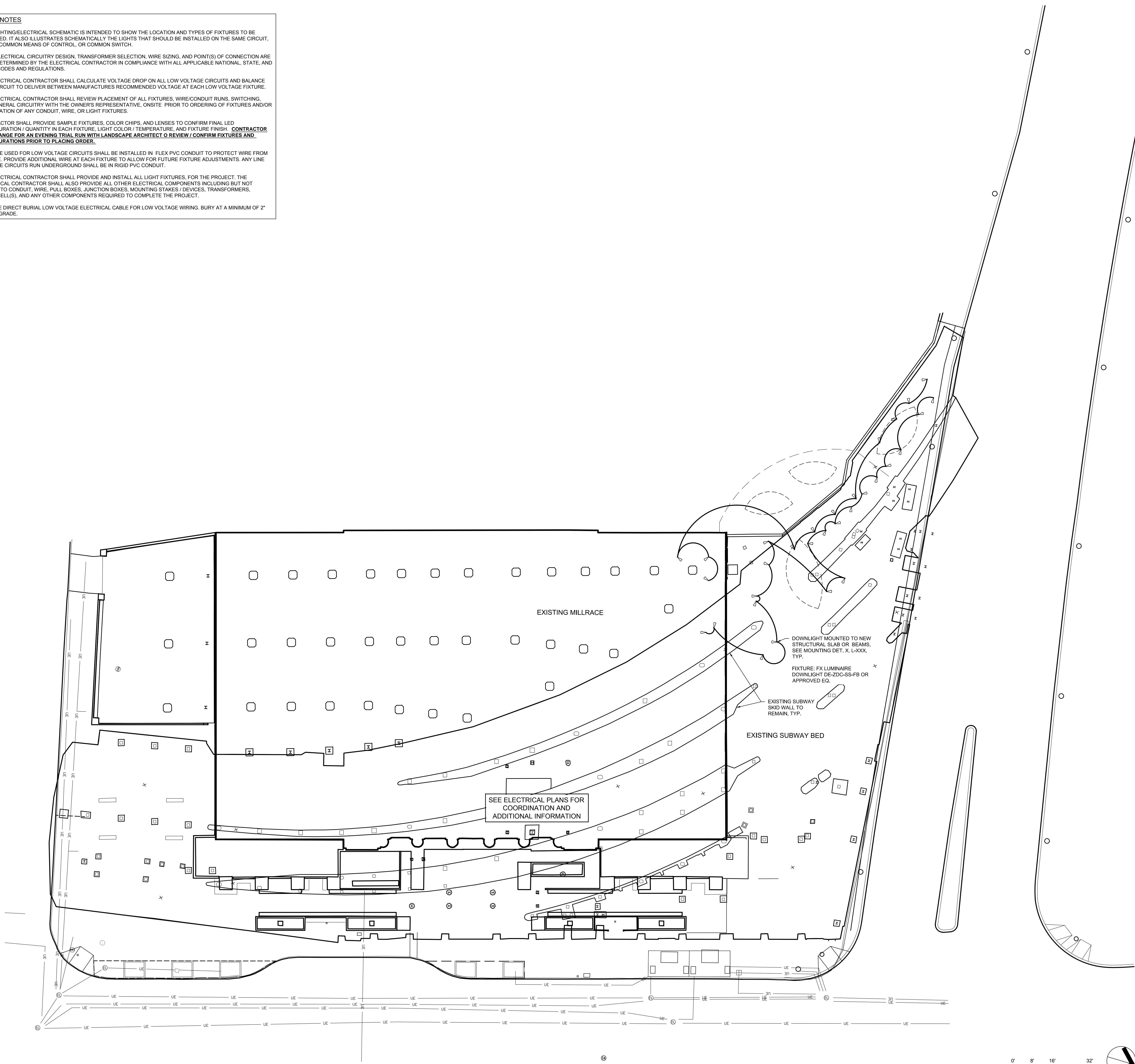


**1 LIGHTING PLAN - SURFACE**  
L-600 1/16" = 1'-0"

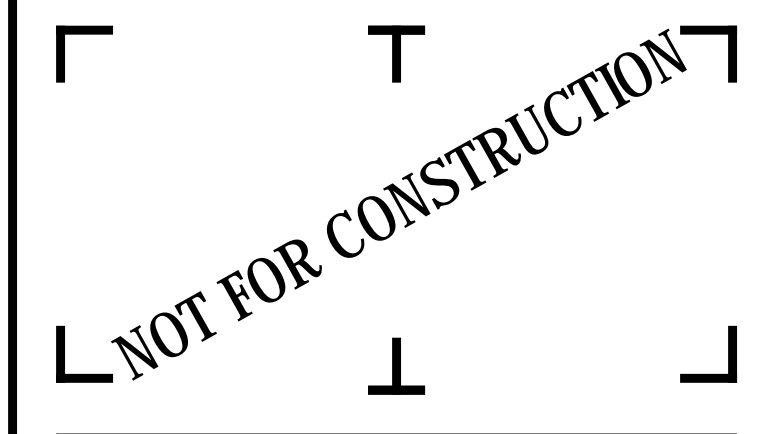
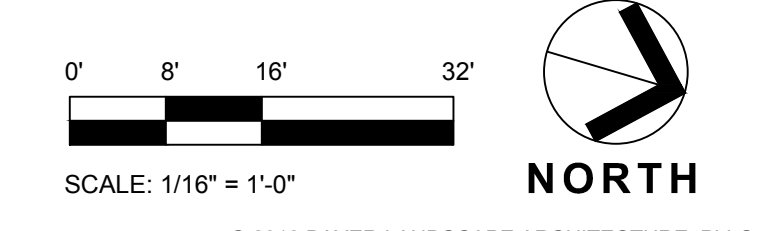


LIGHTING LEGEND		
SYM	DESCRIPTION	DTL
Ⓛ	DOWNLIGHT MOUNTED TO CEILING	

- LIGHTING NOTES**
- THIS LIGHTING/ELECTRICAL SCHEMATIC IS INTENDED TO SHOW THE LOCATION AND TYPES OF FIXTURES TO BE INSTALLED. IT ALSO ILLUSTRATES SCHEMATICALLY THE LIGHTS THAT SHOULD BE INSTALLED ON THE SAME CIRCUIT, HAVE A COMMON MEANS OF CONTROL, OR COMMON SWITCH.
  - FINAL ELECTRICAL CIRCUITRY DESIGN, TRANSFORMER SELECTION, WIRE SIZING, AND POINT(S) OF CONNECTION ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND REGULATIONS.
  - THE ELECTRICAL CONTRACTOR SHALL CALCULATE VOLTAGE DROP ON ALL LOW VOLTAGE CIRCUITS AND BALANCE EACH CIRCUIT TO DELIVER BETWEEN MANUFACTURERS RECOMMENDED VOLTAGE AT EACH LOW VOLTAGE FIXTURE.
  - THE ELECTRICAL CONTRACTOR SHALL REVIEW PLACEMENT OF ALL FIXTURES, WIRE/CONDUIT RUNS, SWITCHING, AND GENERAL CIRCUITRY WITH THE OWNER'S REPRESENTATIVE, ONSITE PRIOR TO ORDERING OF FIXTURES AND/OR INSTALLATION OF ANY CONDUIT, WIRE, OR LIGHT FIXTURES.
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  - ALL WIRE USED FOR LOW VOLTAGE CIRCUITS SHALL BE INSTALLED IN FLEX PVC CONDUIT TO PROTECT WIRE FROM DAMAGE. PROVIDE ADDITIONAL WIRE AT EACH FIXTURE TO ALLOW FOR FUTURE FIXTURE ADJUSTMENTS. ANY LINE VOLTAGE CIRCUITS RUN UNDERGROUND SHALL BE IN RIGID PVC CONDUIT.
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  - PROVIDE DIRECT BURIAL LOW VOLTAGE ELECTRICAL CABLE FOR LOW VOLTAGE WIRING. BURY AT A MINIMUM OF 2" BELOW GRADE.



**1 LIGHTING PLAN - SUBSURFACE**  
L-601 1/16" = 1'-0"



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**CITY OF ROCHESTER**  
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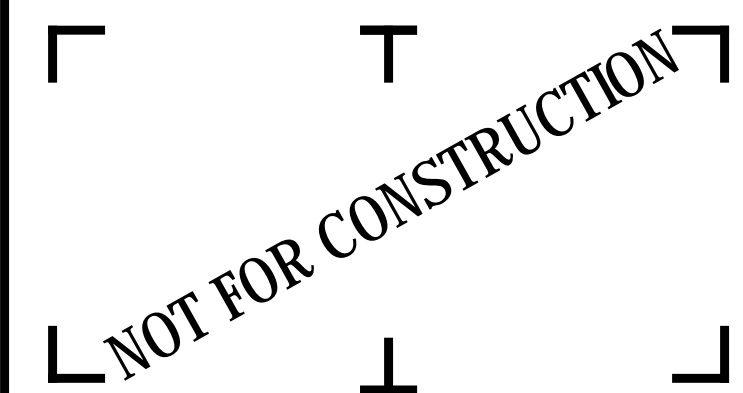
**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**LIGHTING PLAN - SUB-SURFACE**

DRAWING NUMBER:

**L-601**



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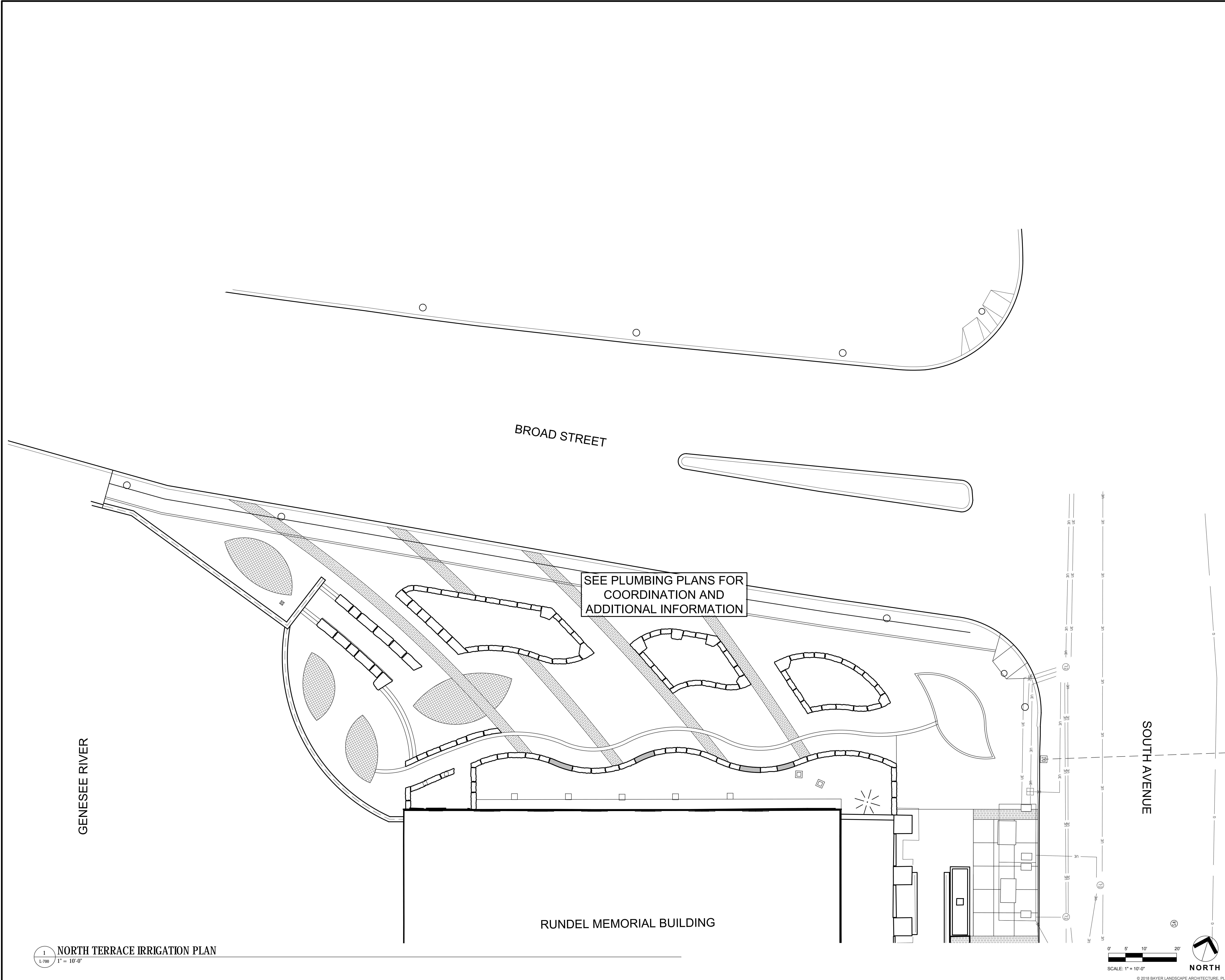
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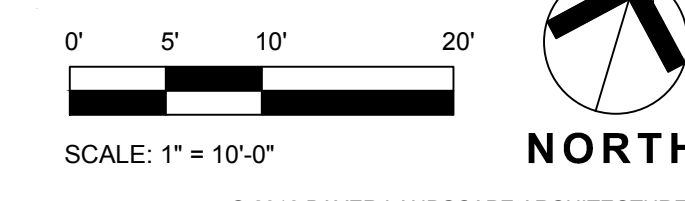
**NORTH TERRACE IRRIGATION PLAN**

DRAWING NUMBER:

**L-700**



**1 NORTH TERRACE IRRIGATION PLAN**  
L-700 1" = 10'-0"



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**NOT FOR CONSTRUCTION**

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NO.	DATE	DESCRIPTION

PROJECT NUMBER: 2170391

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REVIEWED BY: MHB

ISSUED FOR: 35% PRELIMINARY DESIGN

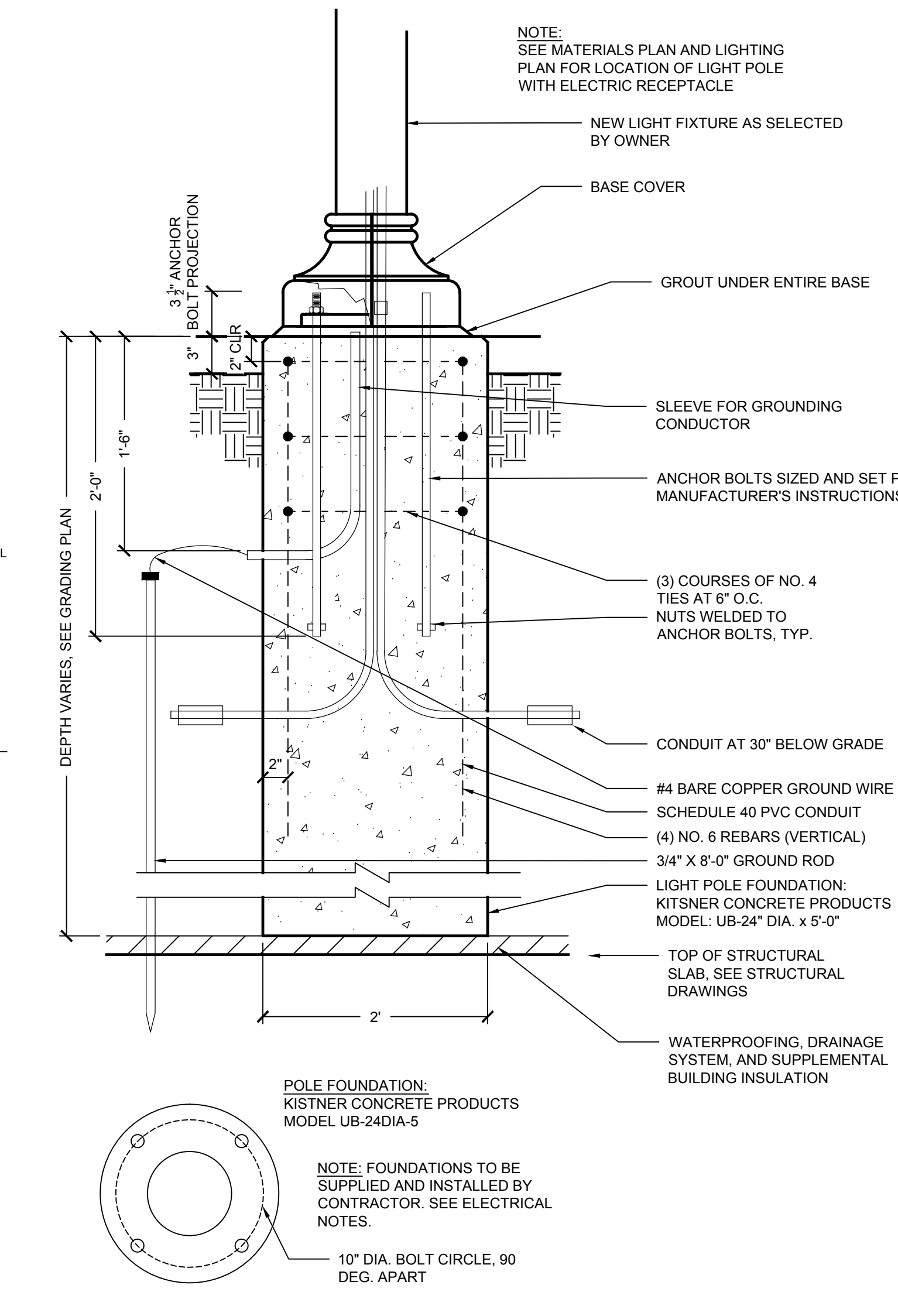
DATE: JULY 2018

DRAWING NAME:

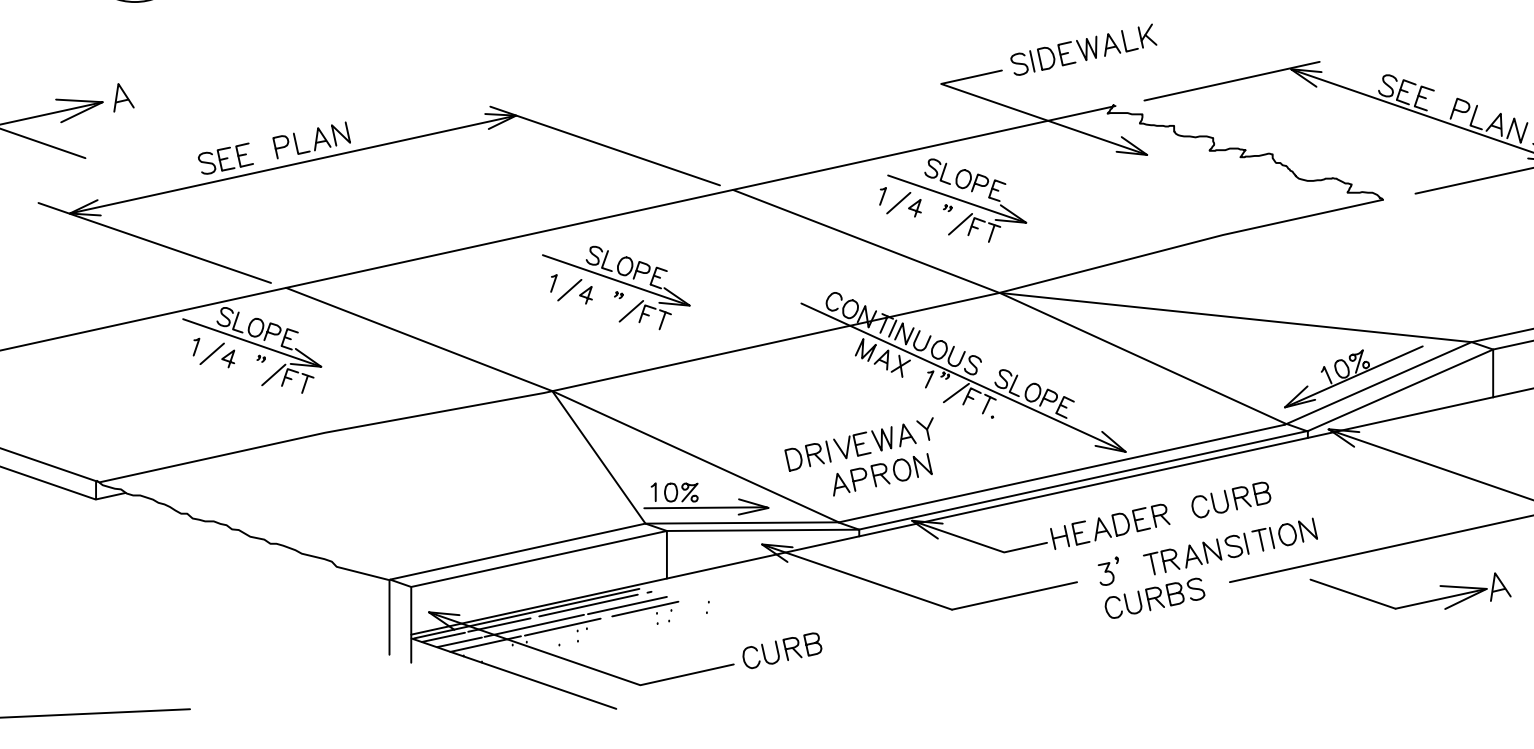
**NORTH TERRACE  
PAVEMENT DETAILS**

DRAWING NUMBER:

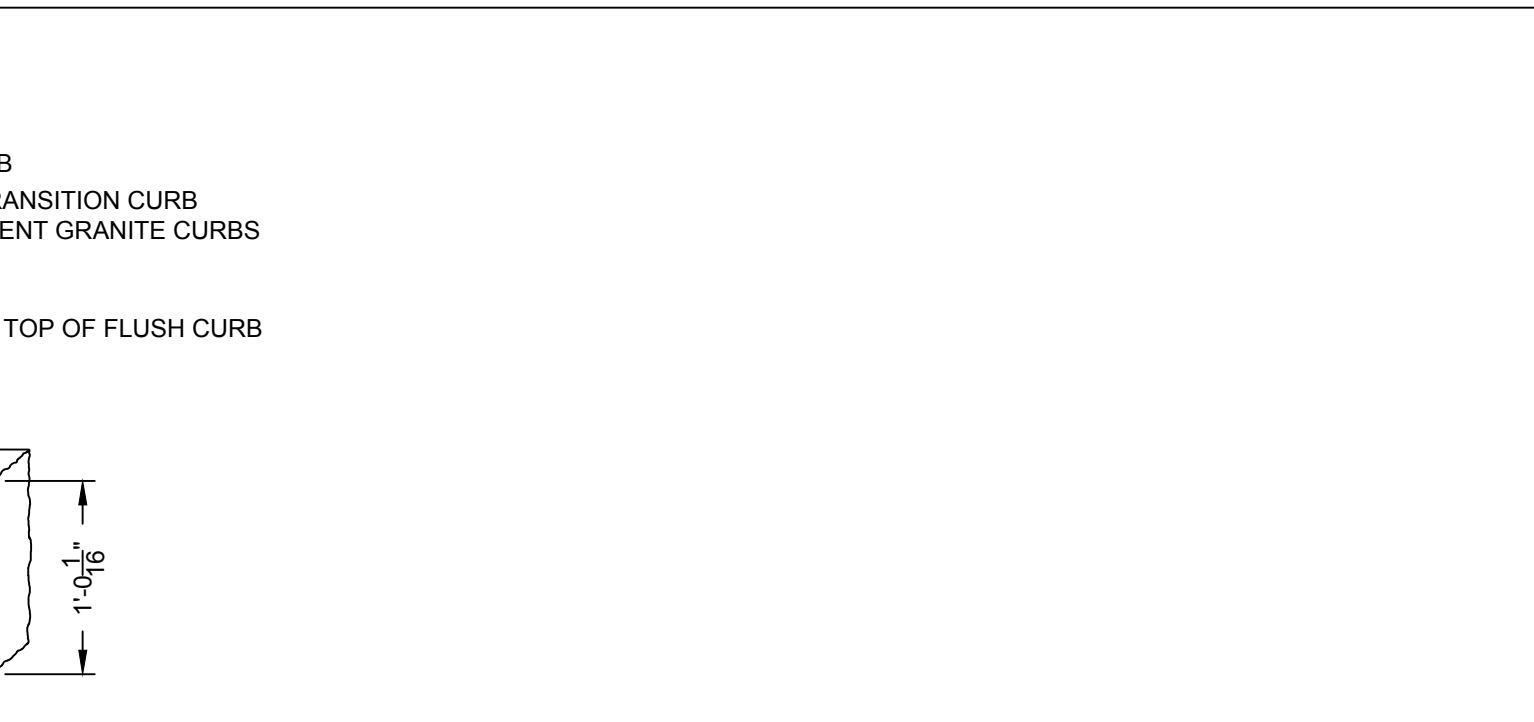
**L-800**



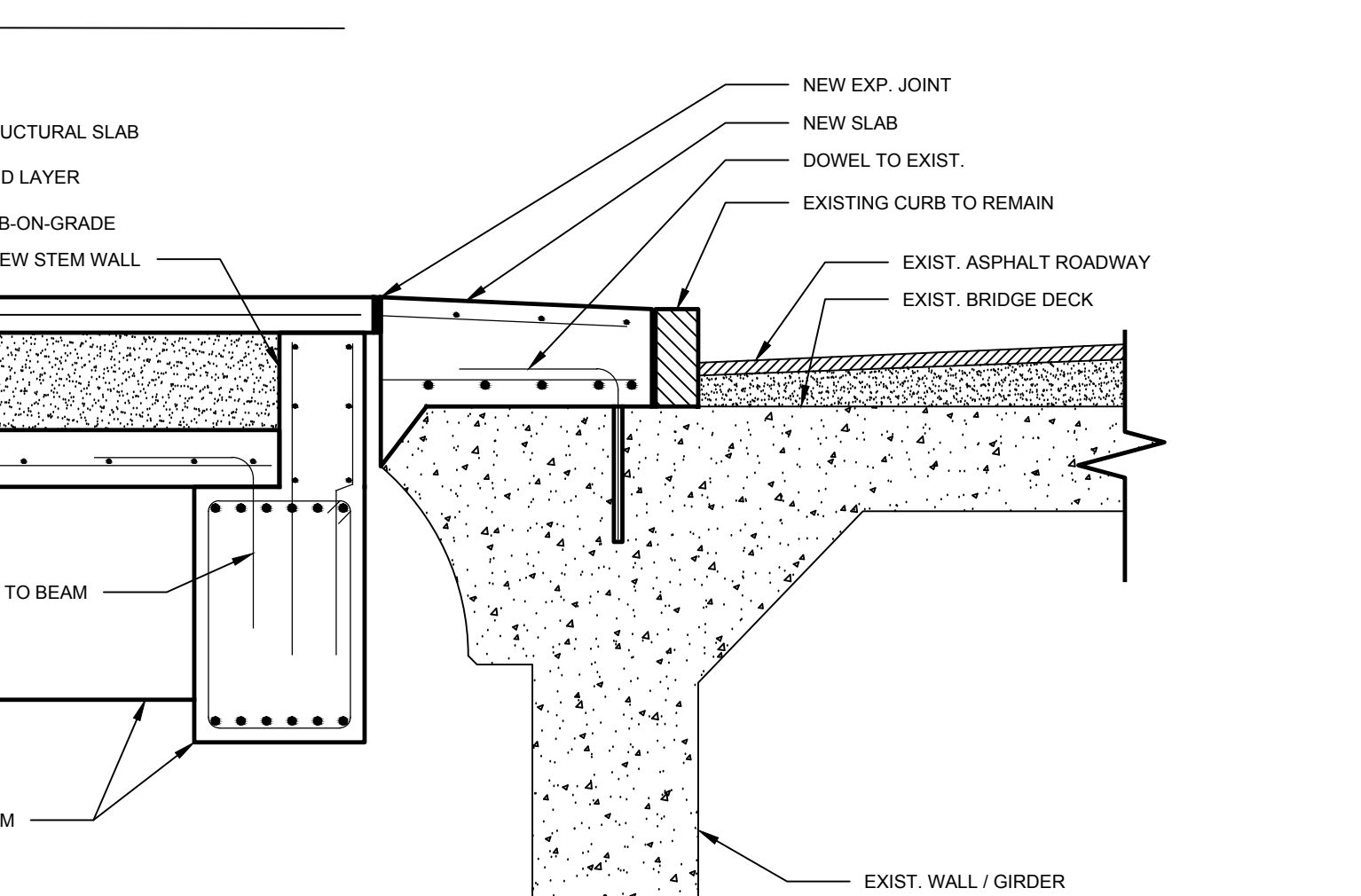
**6 LIGHT POST FOUNDATION DETAIL**  
1" = 1'-0"



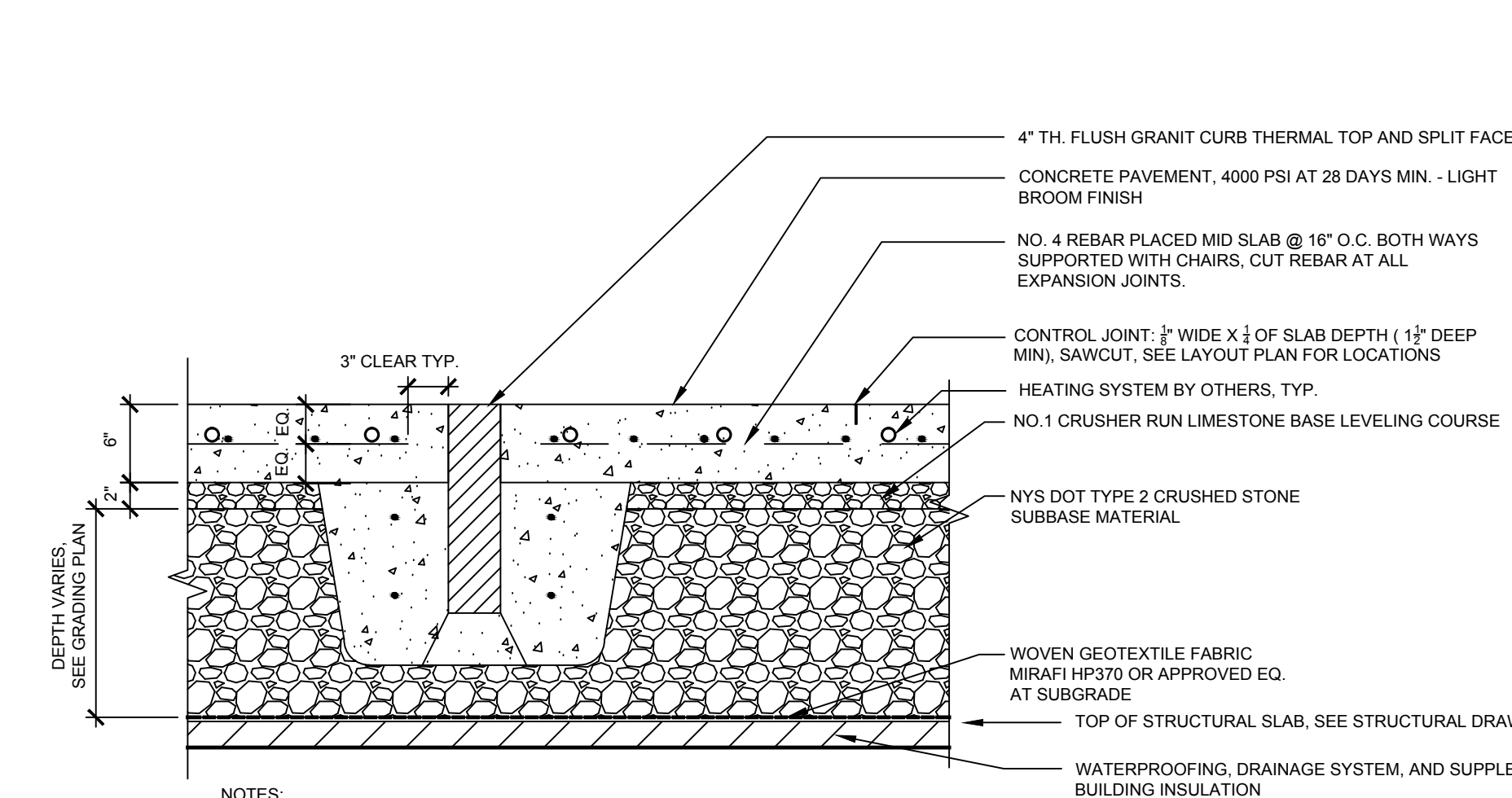
**10 ADA CURB RAMP**  
SCALE: 3/4" = 1'-0"



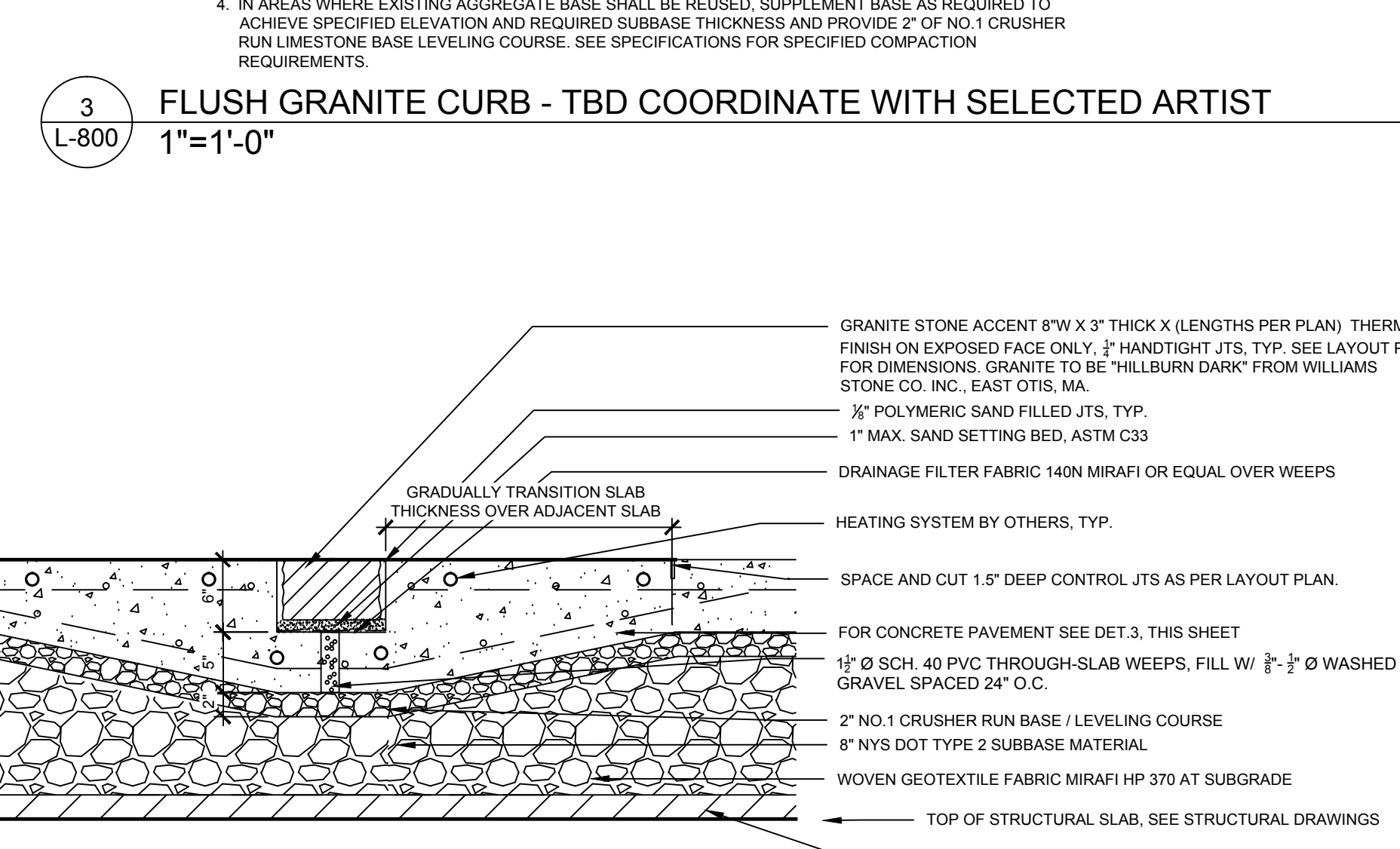
**11 TRANSITION CURB**  
1" = 1'-0"



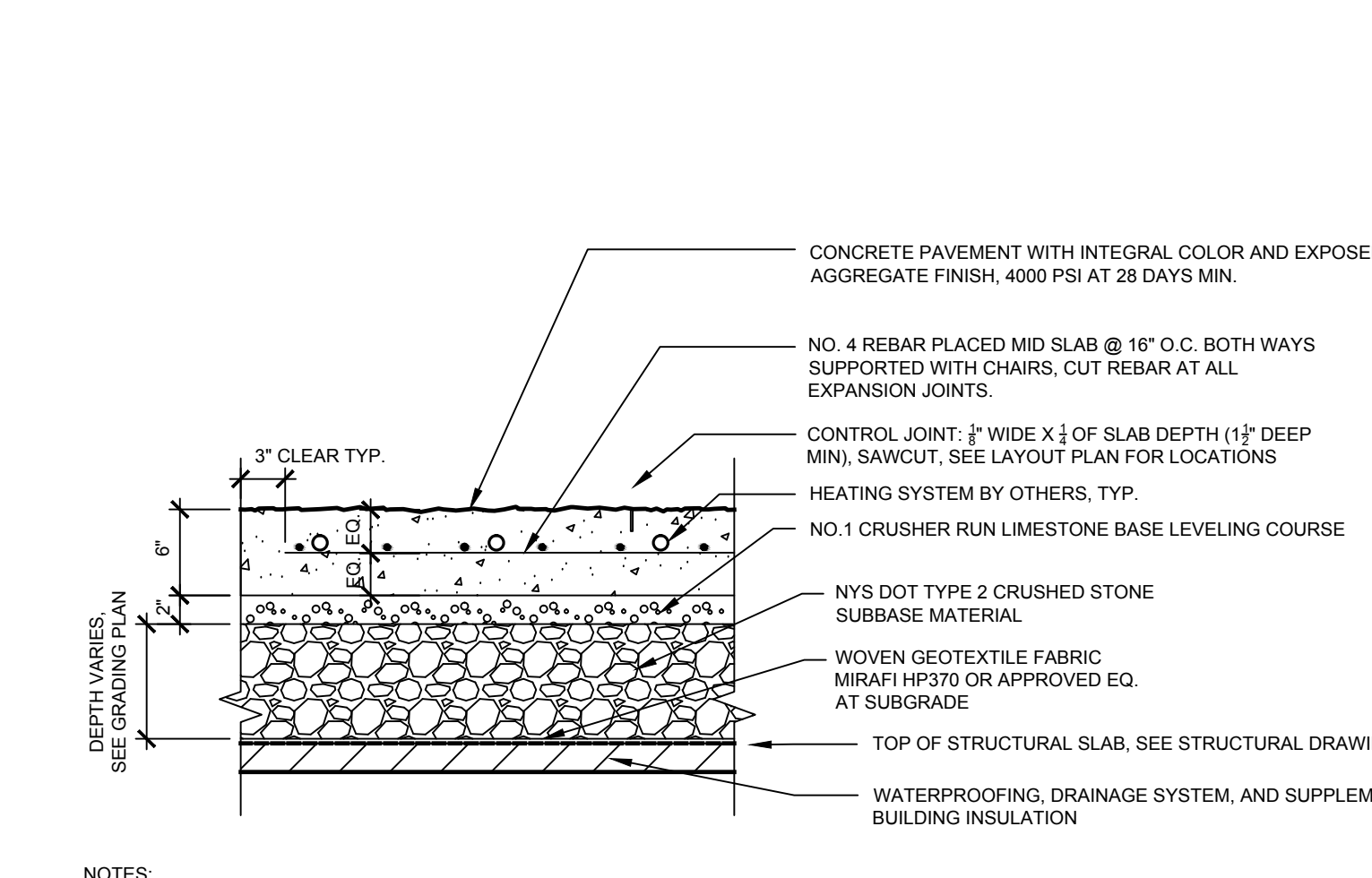
**15 BRIDGE JOINT DETAIL - SEE STRUCTURAL ENGINEERS PLANS FOR ADDITIONAL INFORMATION**  
1" = 1'-0"



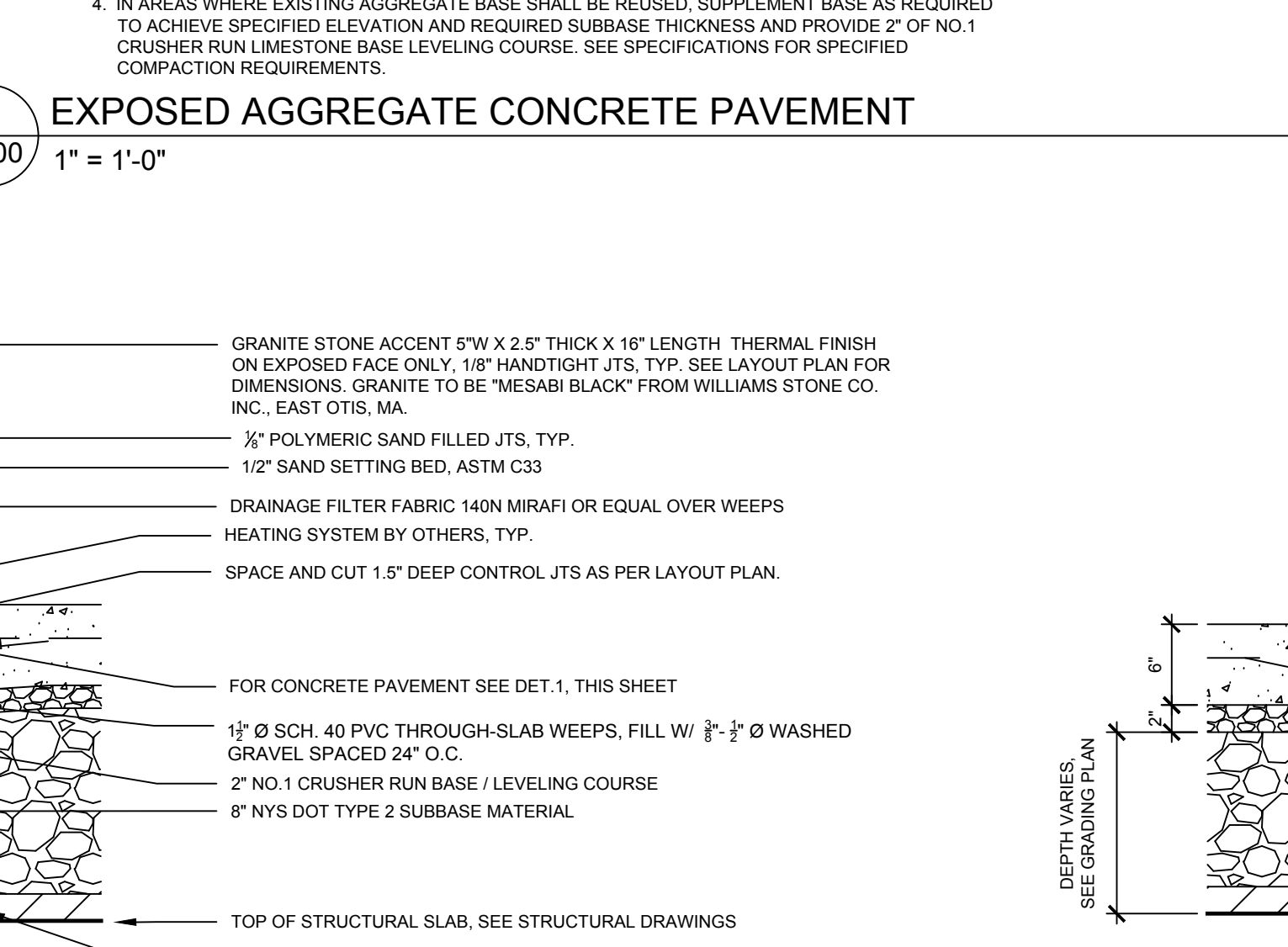
**3 FLUSH GRANITE CURB - TBD COORDINATE WITH SELECTED ARTIST**  
1" = 1'-0"



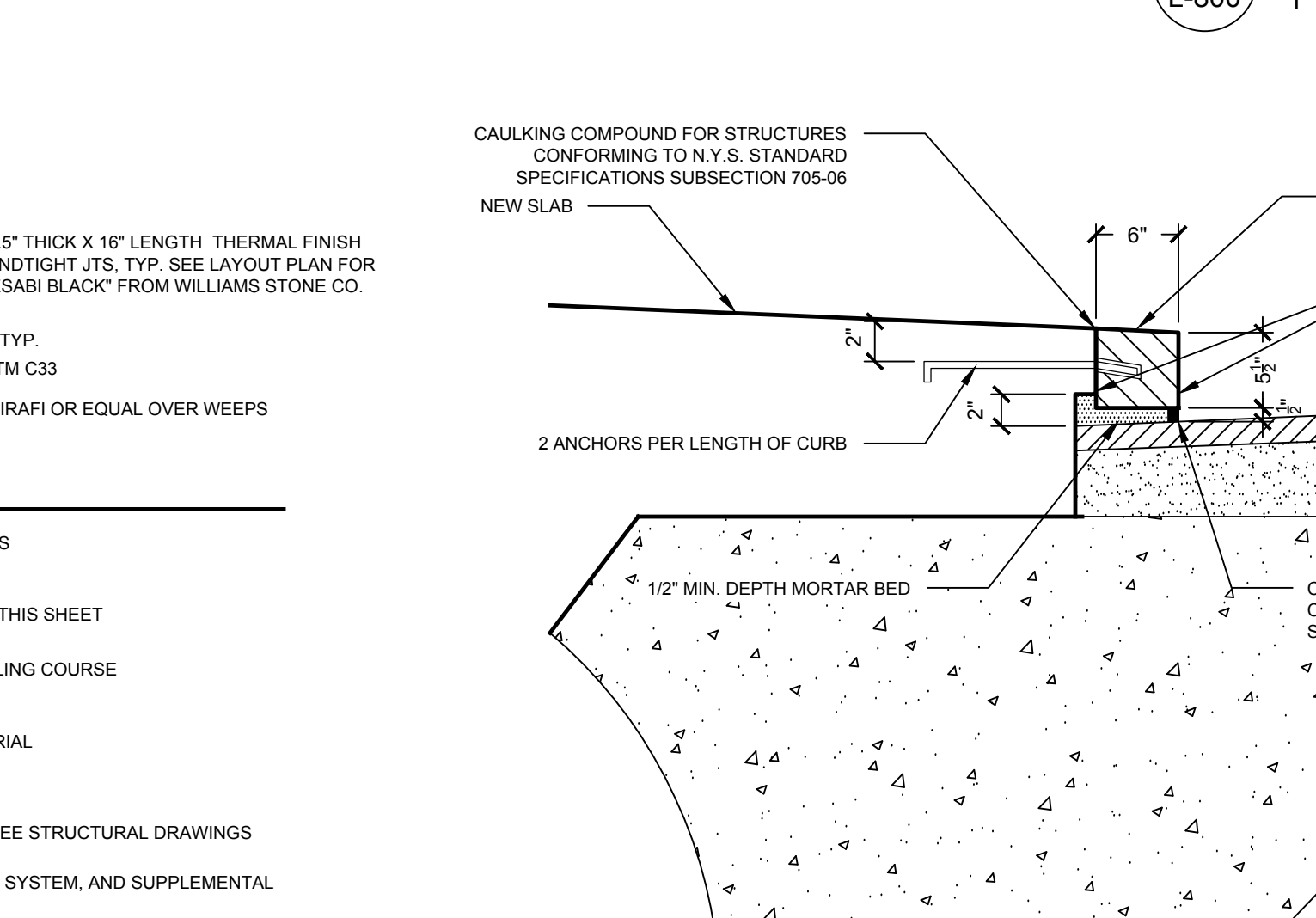
**5 CONCRETE PAVEMENT W/ GRANITE ACCENT (HERITAGE TRAIL)**  
1" = 1'-0"



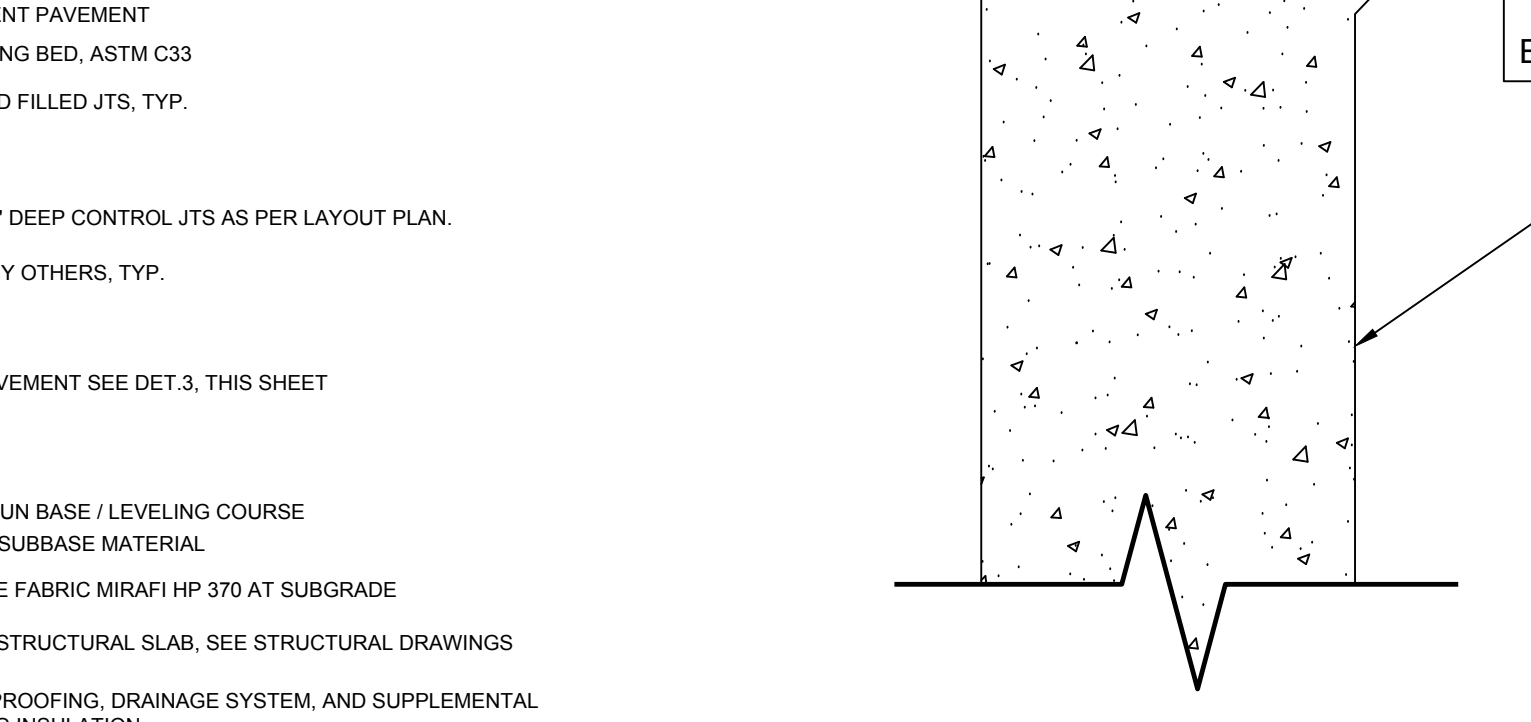
**2 EXPOSED AGGREGATE CONCRETE PAVEMENT**  
1" = 1'-0"



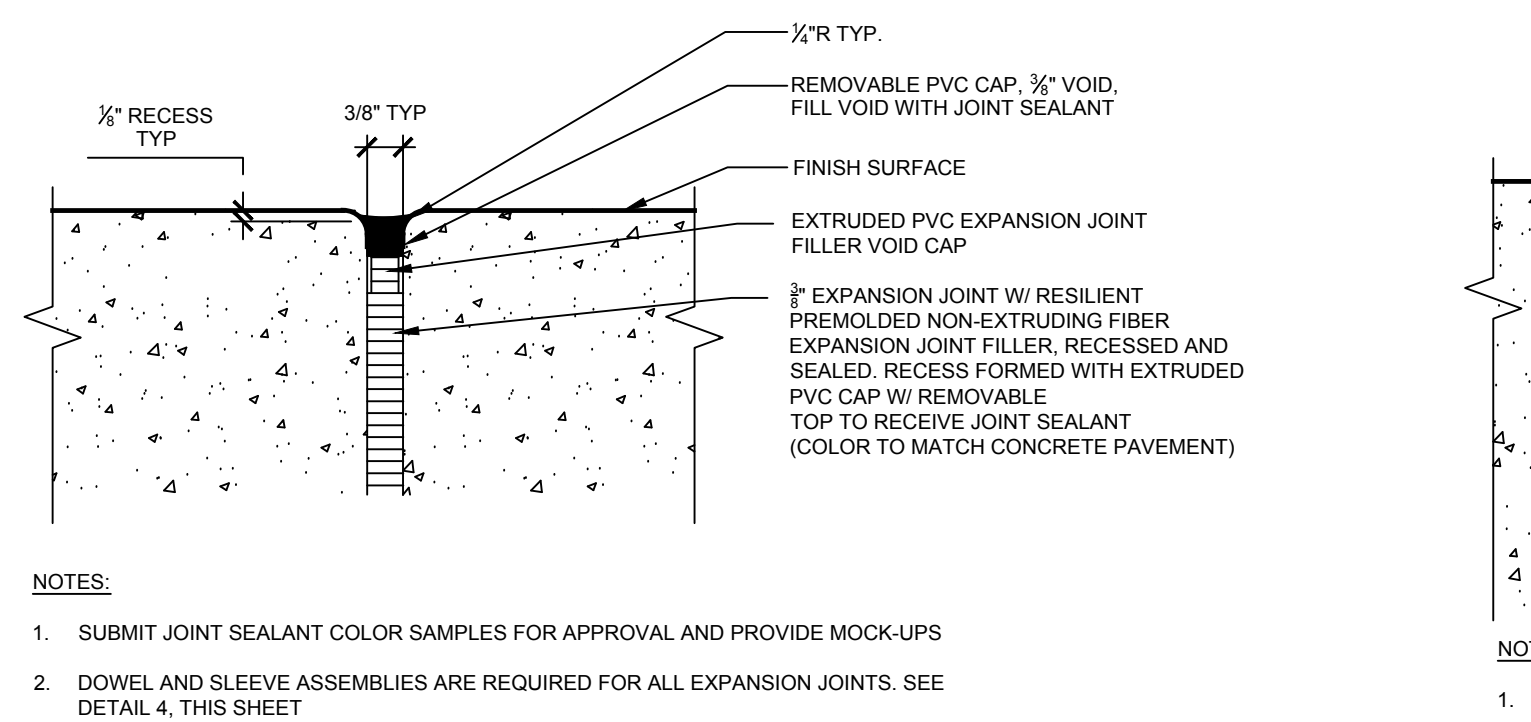
**1 STANDARD CONCRETE PAVEMENT**  
1" = 1'-0"



**4 INTERPRETIVE PAVING BANDS**  
1" = 1'-0"

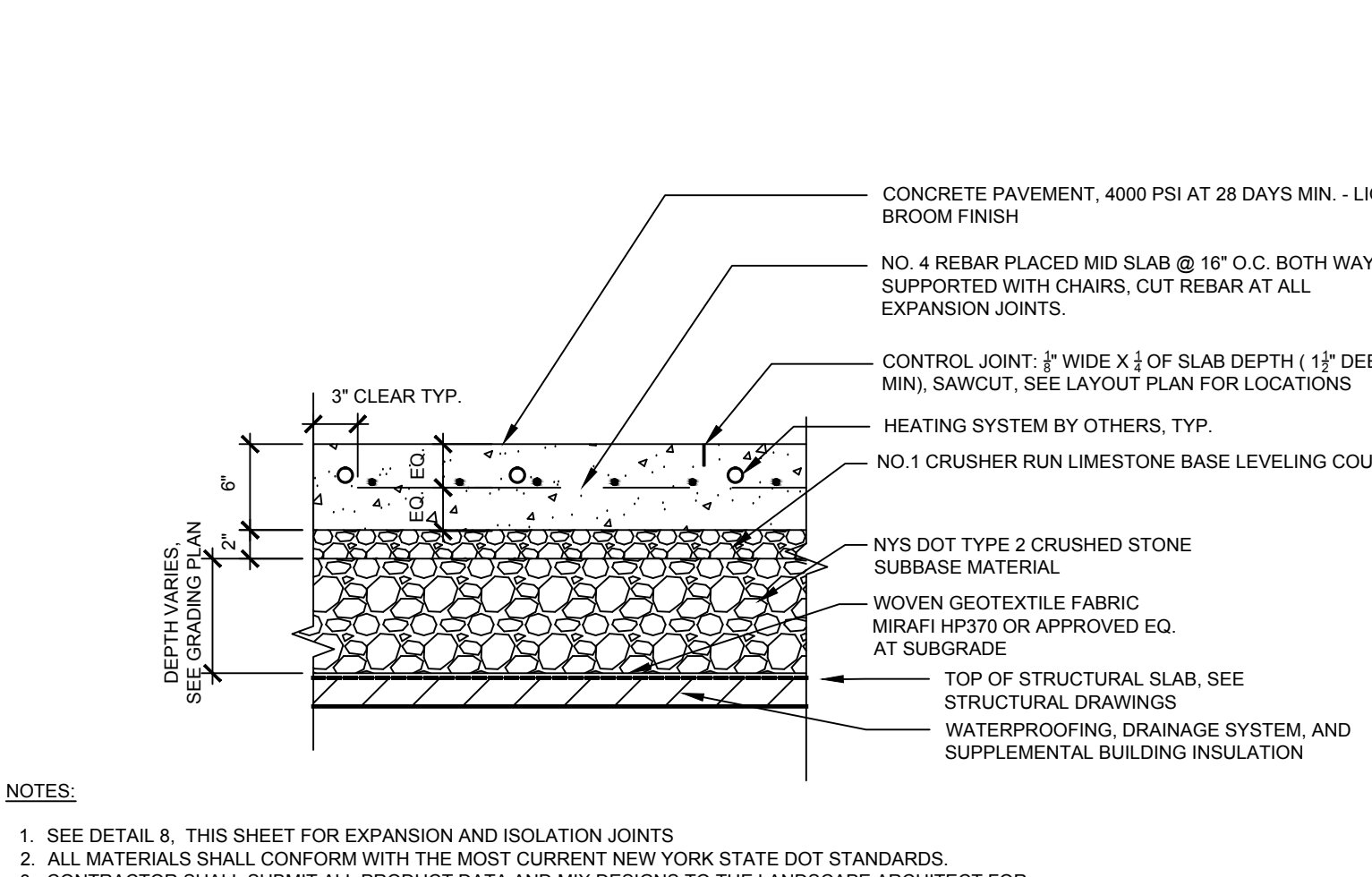


**7 PAVING BAND AT BUILDING FACE**  
1" = 1'-0"

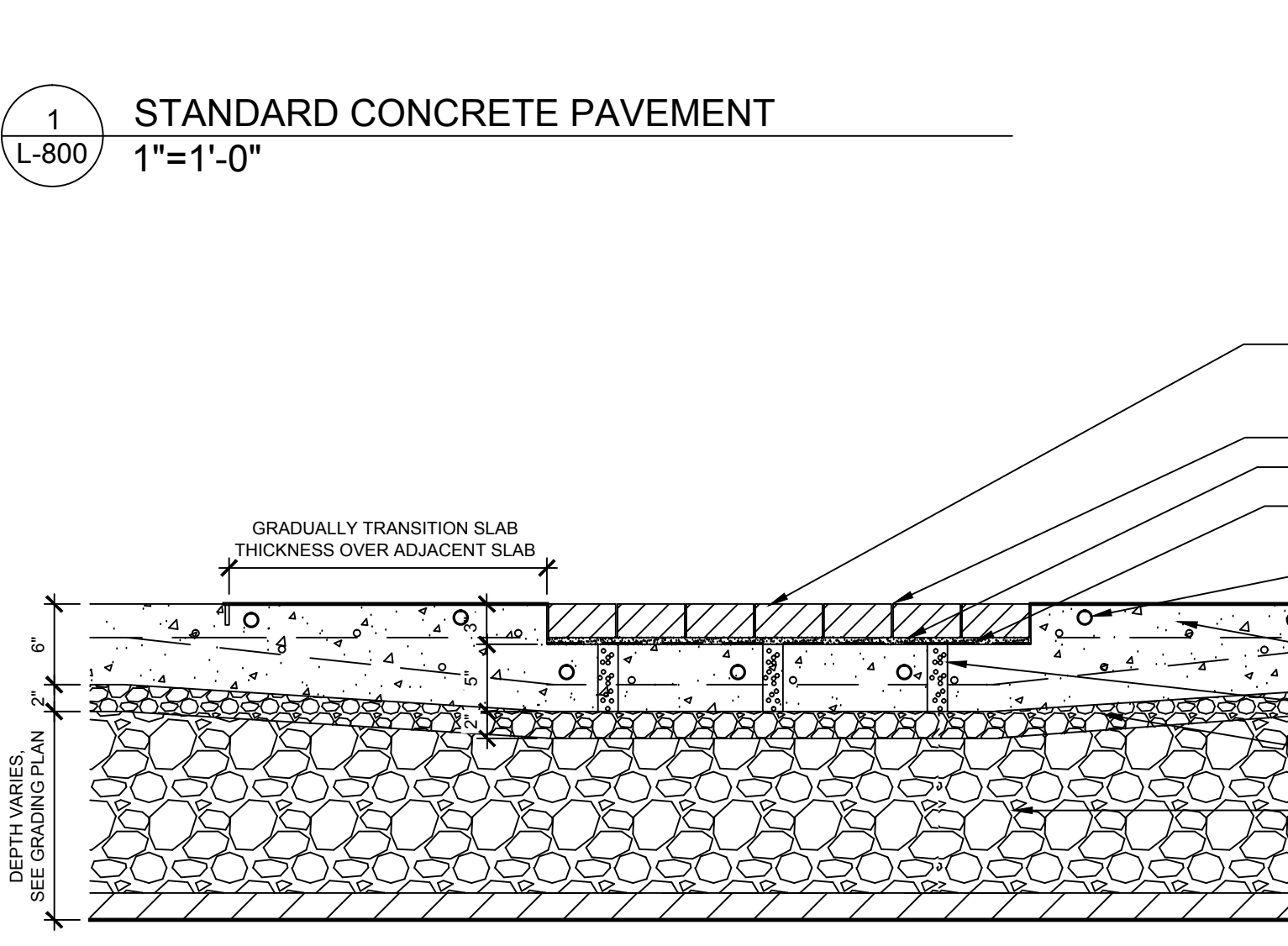


**13 EXPANSION AND ISOLATION JOINT SEALANT**  
1" = 1'-0"

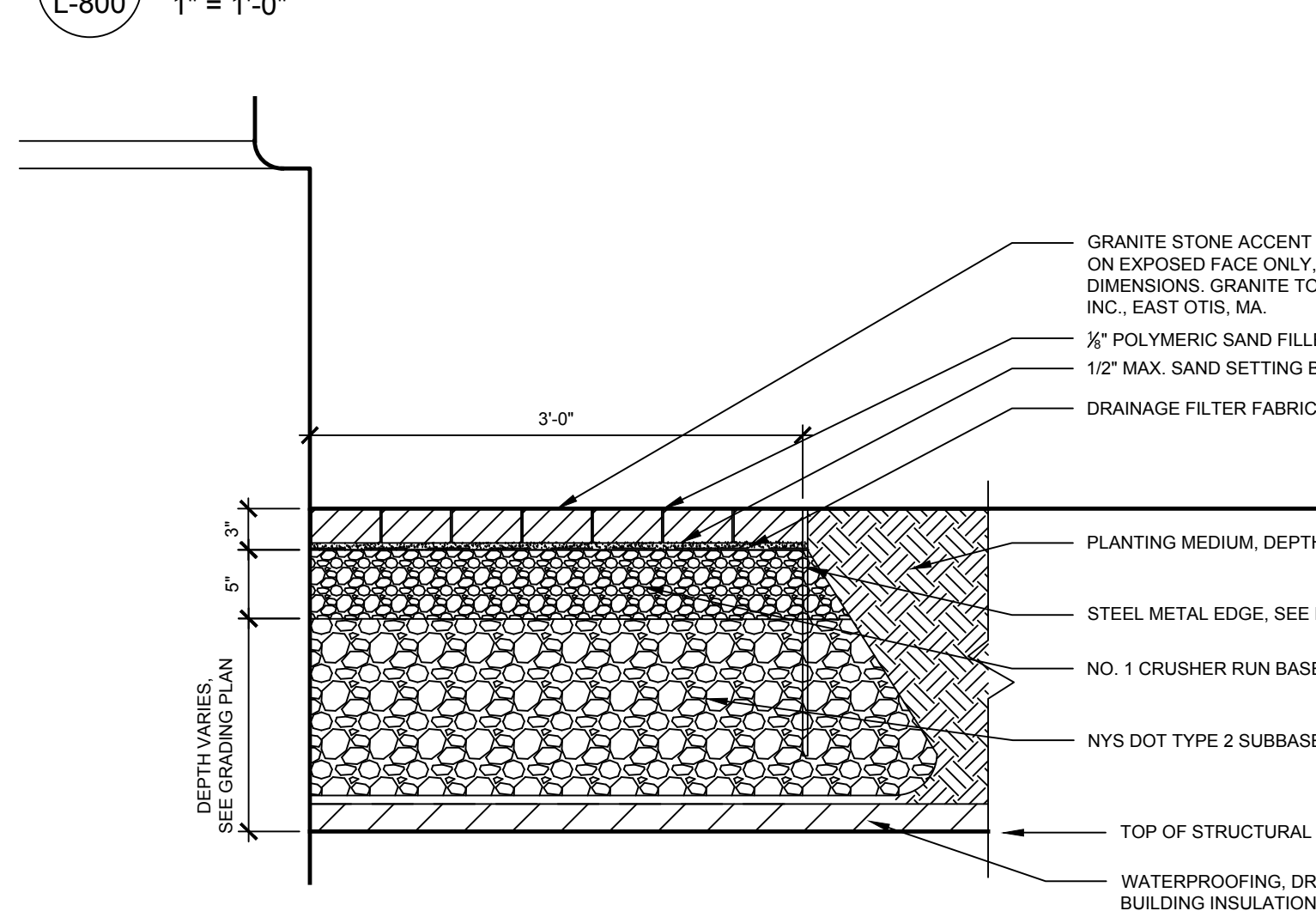
**12 CONCRETE EXPANSION AND ISOLATION JOINT**  
1" = 1'-0"



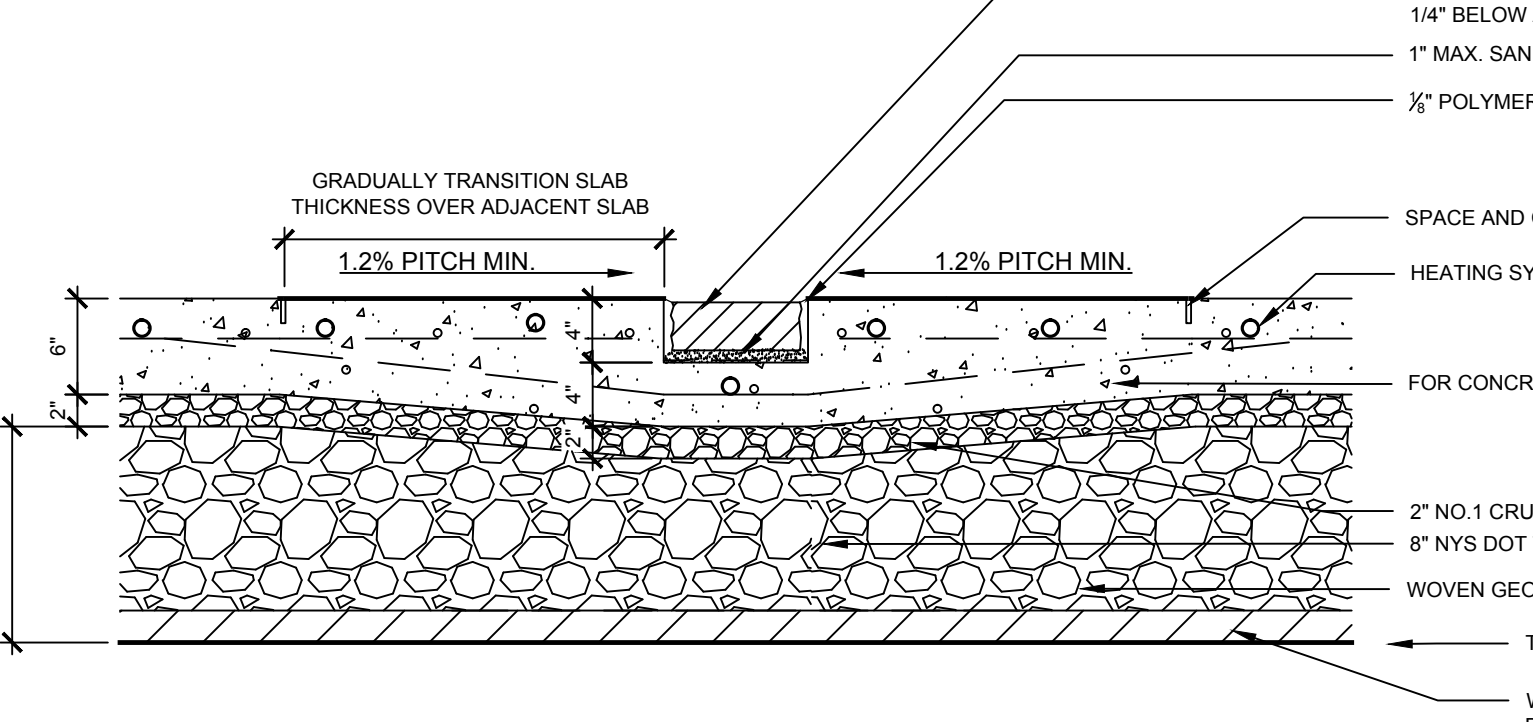
**12 CONCRETE EXPANSION AND ISOLATION JOINT**  
1" = 1'-0"



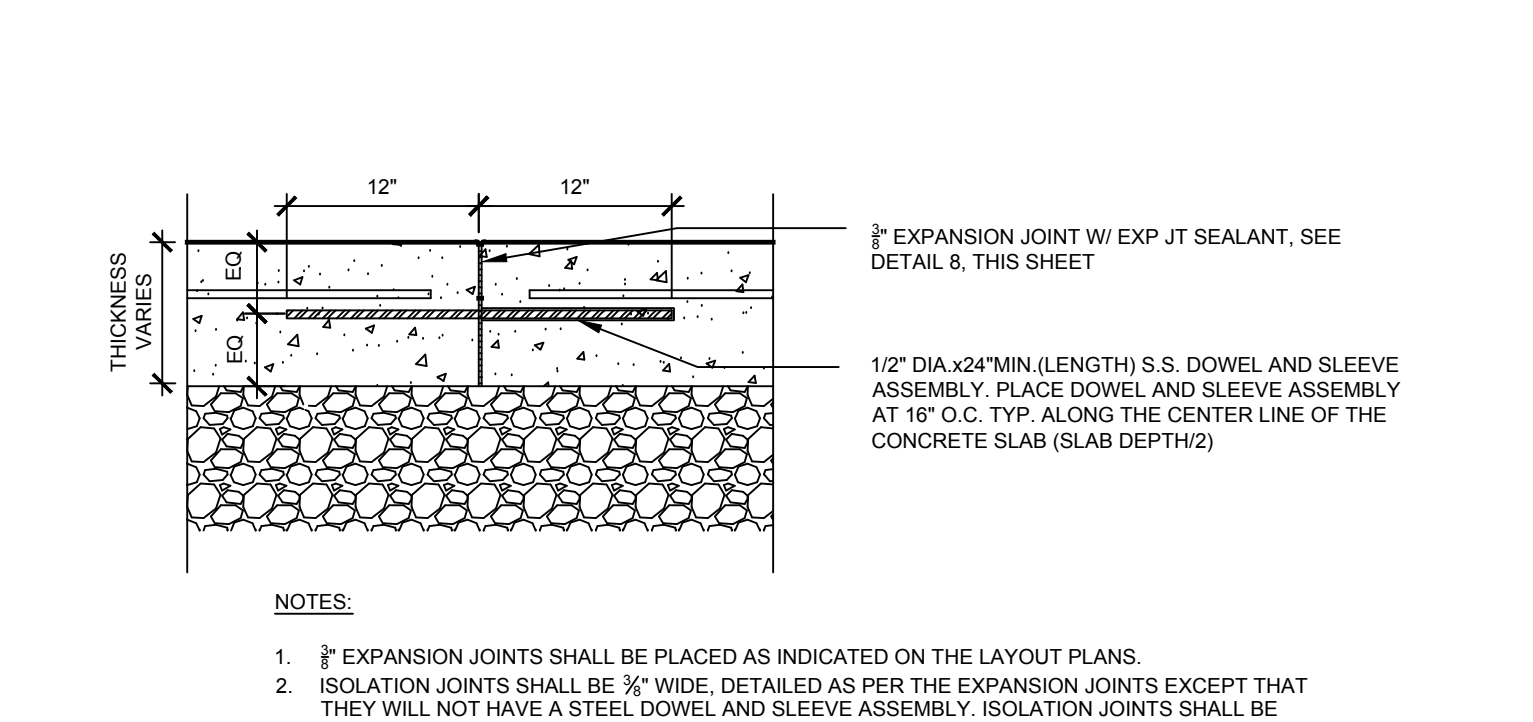
**13 EXPANSION AND ISOLATION JOINT SEALANT**  
1" = 1'-0"



**14 CONCRETE CONTROL JOINT**  
N.T.S.

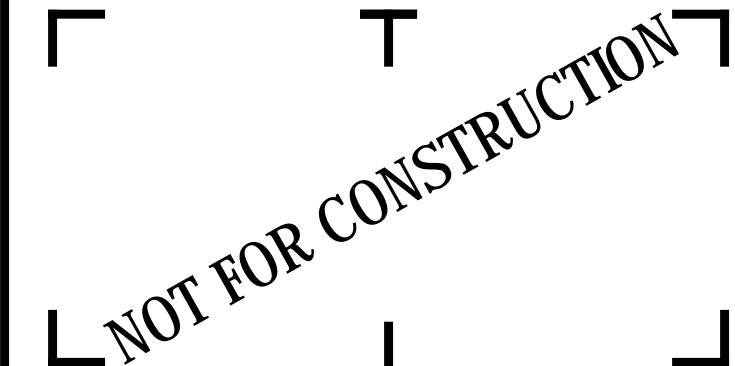


**9 STREET CURB DETAIL - SEE ENGINEERS DWGS FOR ADDITIONAL INFORMATION**  
1" = 1'-0"



**14 CONCRETE CONTROL JOINT**  
N.T.S.

**12 CONCRETE EXPANSION AND ISOLATION JOINT**  
1" = 1'-0"



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**CITY OF ROCHESTER**  
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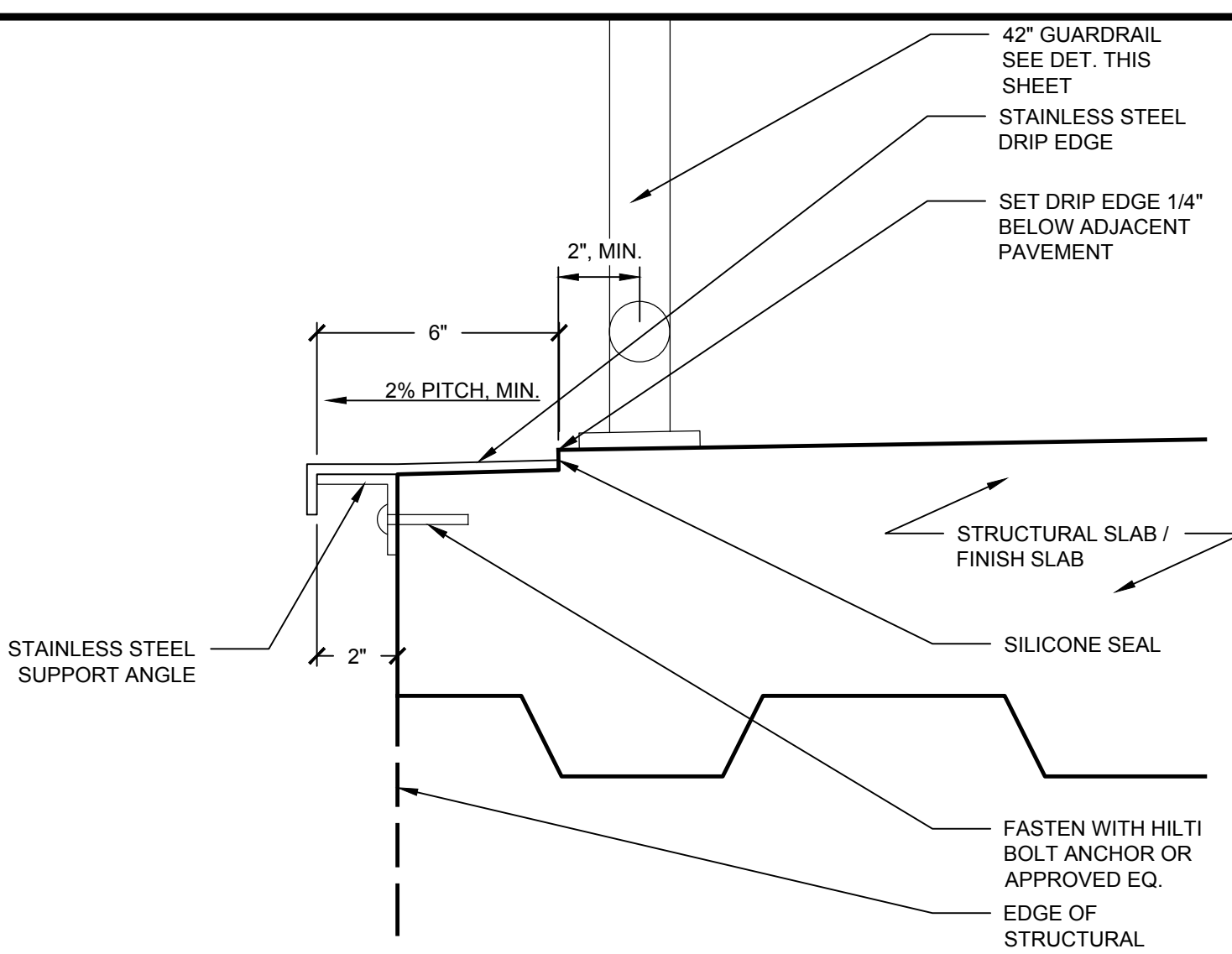
**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

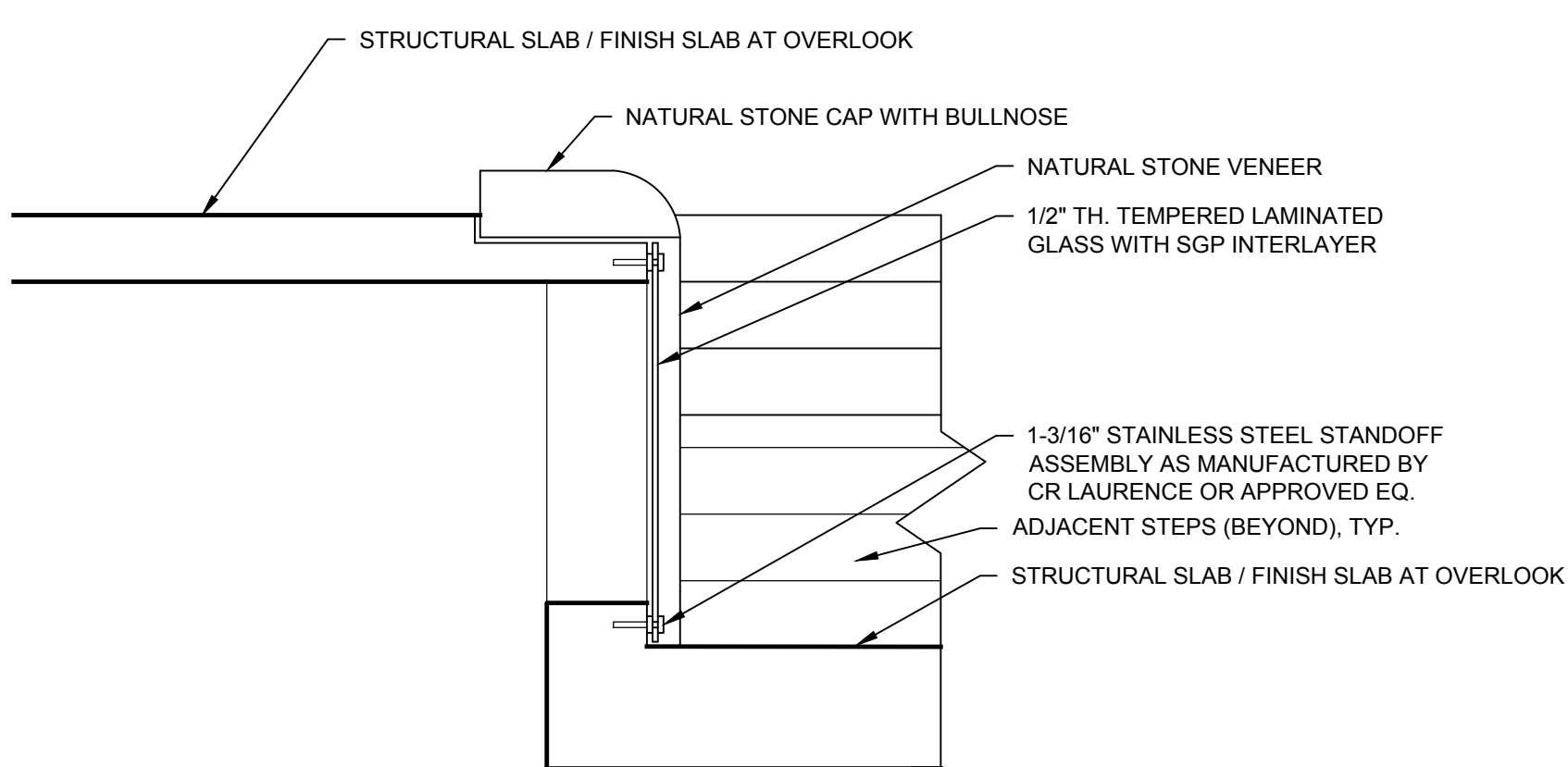
**NORTH TERRACE  
SITE DETAILS**

DRAWING NUMBER:

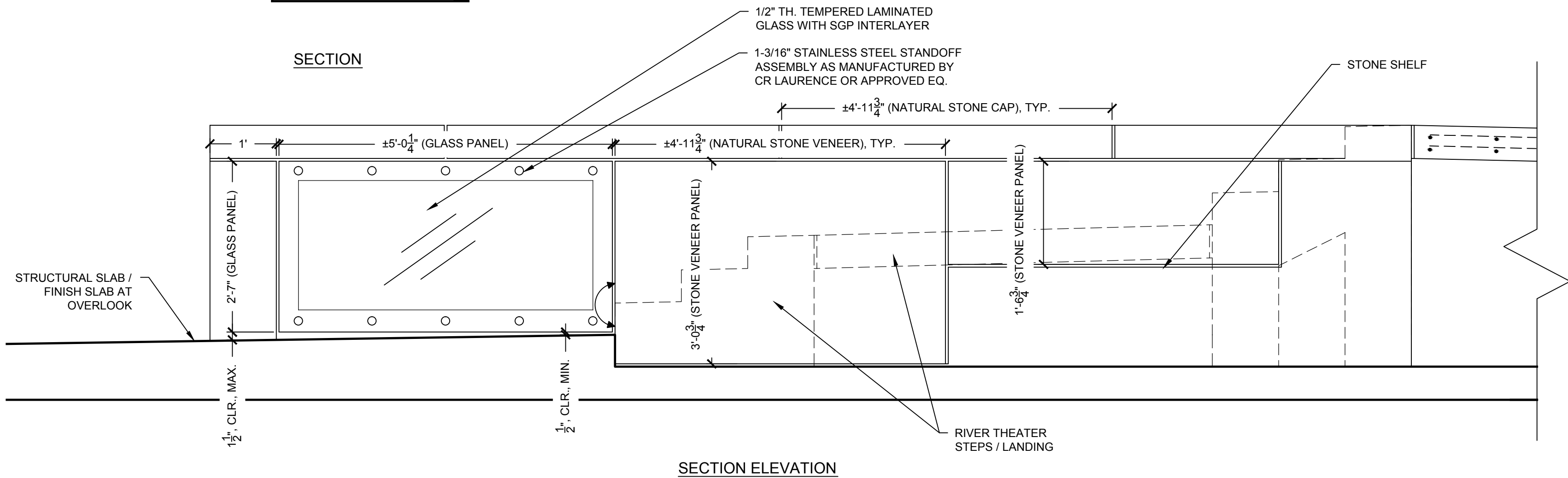
**L-801**



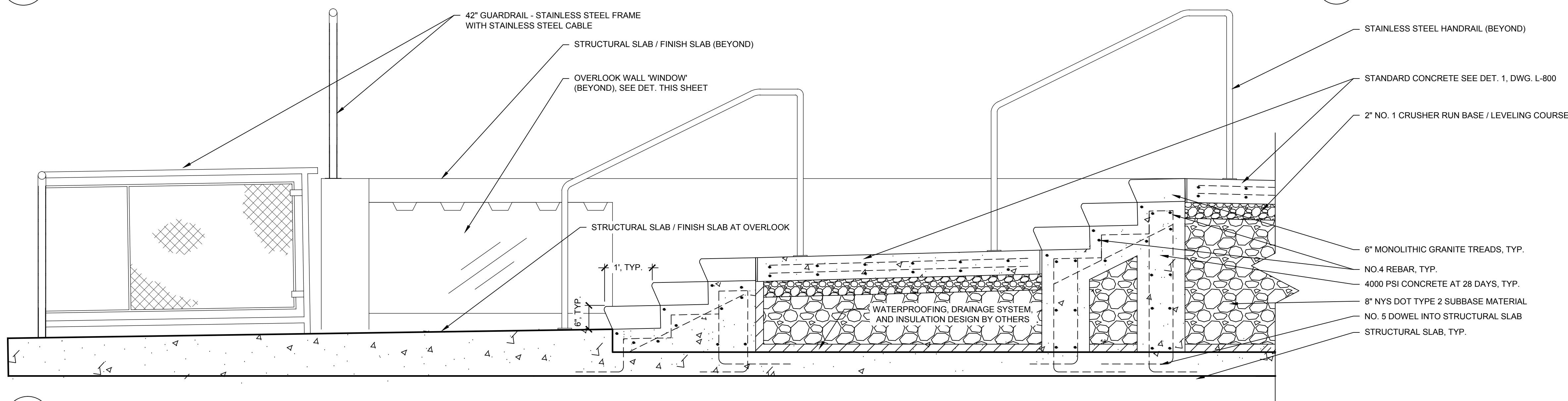
**1 OVERLOOK DRIP EDGE DETAIL**  
1"=1'-0"



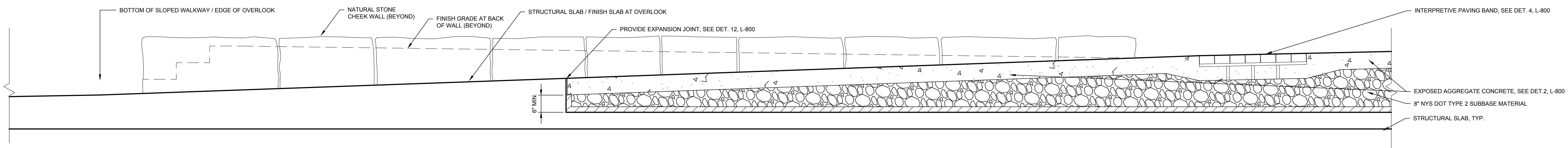
**2 GUARDRAIL DETAIL**  
1"=1'-0"



**3 WALL AT RIVER THEATER STEPS DETAIL**  
3/4"=1'-0"

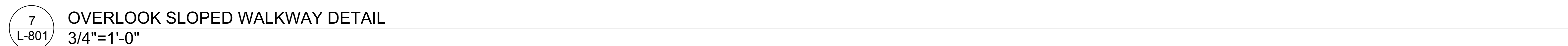


**5 STAIRS AT RIVER THEATER DETAIL**  
3/4"=1'-0"

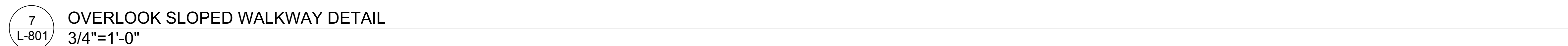


**7 OVERLOOK SLOPED WALKWAY DETAIL**  
3/4"=1'-0"

**4 PLANTER BUILT UP FROM STRUCTURAL SLAB DETAIL**  
1/2"=1'-0"



**6 OVERLOOK STEPS**  
1"=1'-0"



07/2018, 0:00:00 AM  
C:\Users\jlabella\OneDrive\Bayer\RunDel\Phase IV\2170391 - RunDel\Library\Phase IV - RTR\_Misc\Arch

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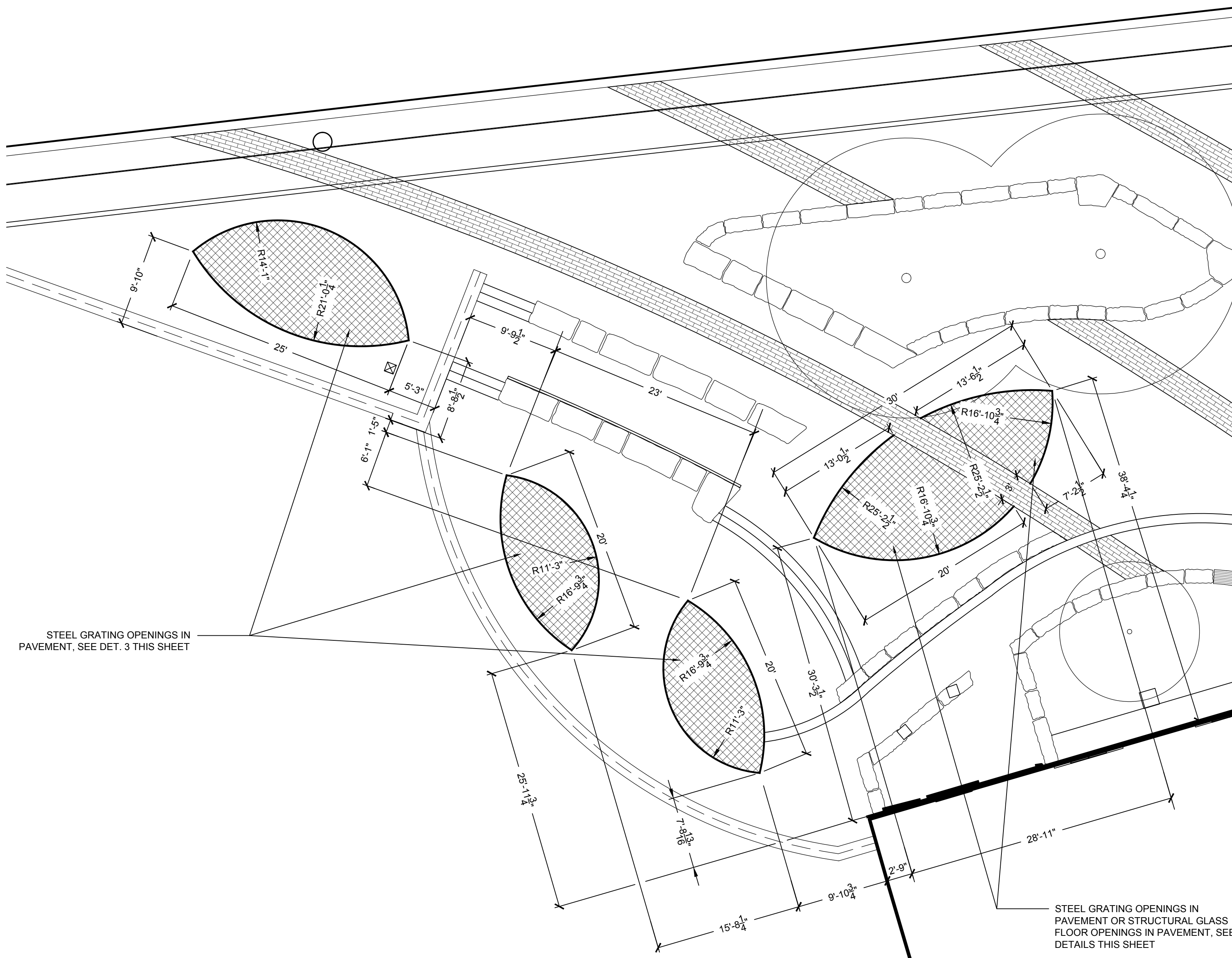
**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE  
GLASS FLOORING DETAILS**

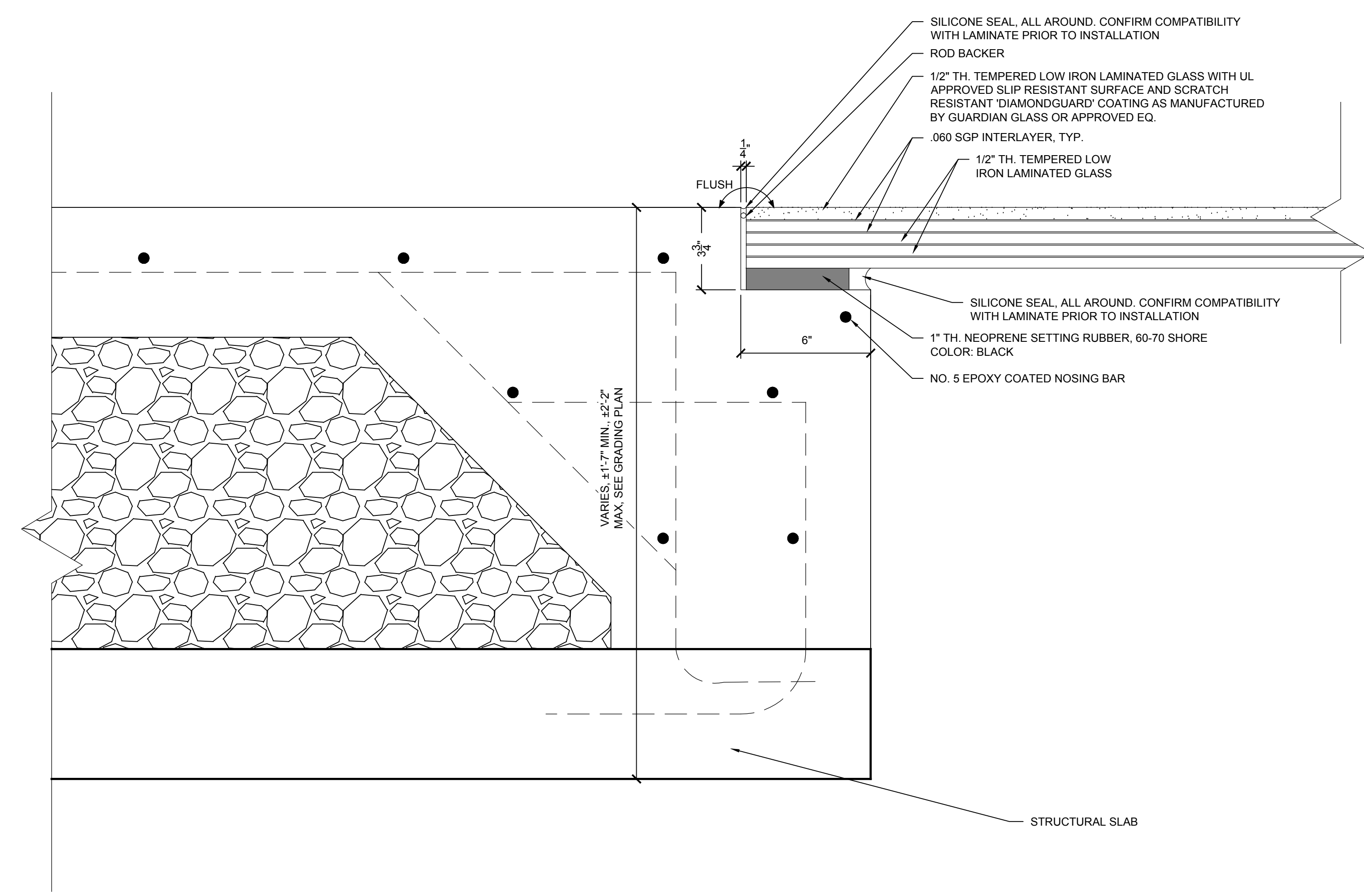
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**L-802**

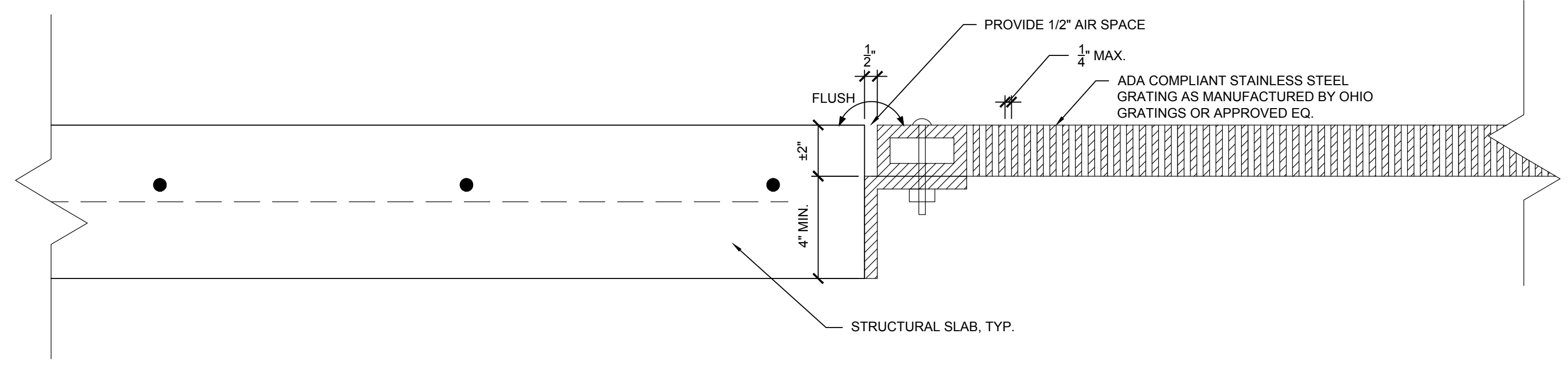


**1**  
L-802  
**OPENINGS IN PAVEMENT - LAYOUT PLAN**  
SCALE: 1/8"=1'-0"

**NOTE: LOCATIONS OF OPENINGS / MATERIALS TO BE SELECTED WITH FUTURE DESIGN DEVELOPMENT**



**2**  
L-802  
**STRUCTURAL GLASS FLOORING DETAIL**  
SCALE: 3"=1'-0"



**3**  
L-802  
**STAINLESS STEEL GRATING DETAIL**  
SCALE: 3"=1'-0"

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ROCHESTER, NY 14604

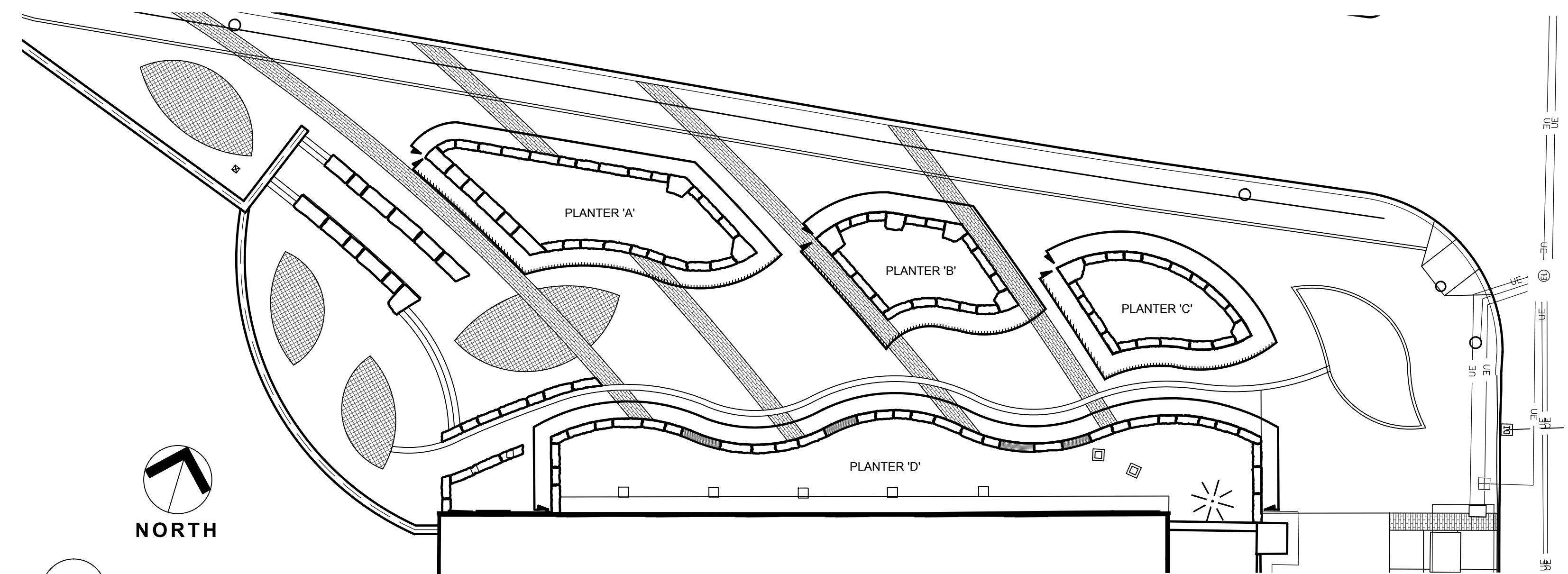
**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
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ISSUED FOR: 35% PRELIMINARY DESIGN		
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DRAWING NAME:		

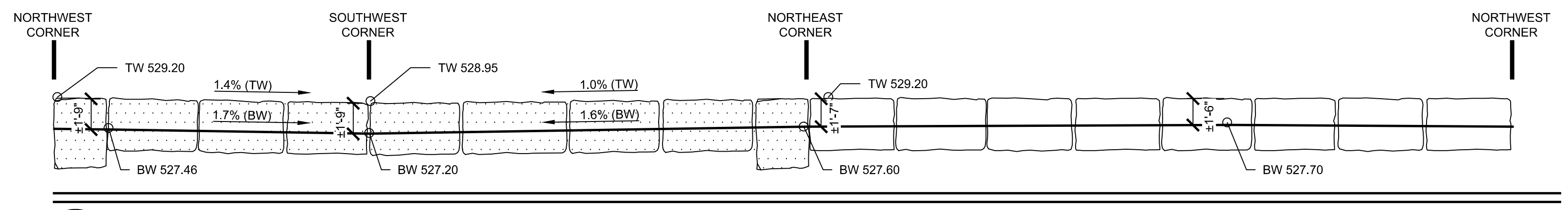
**NORTH TERRACE  
PLANTER WALL ELEVATION  
STUDIES**

DRAWING NUMBER:

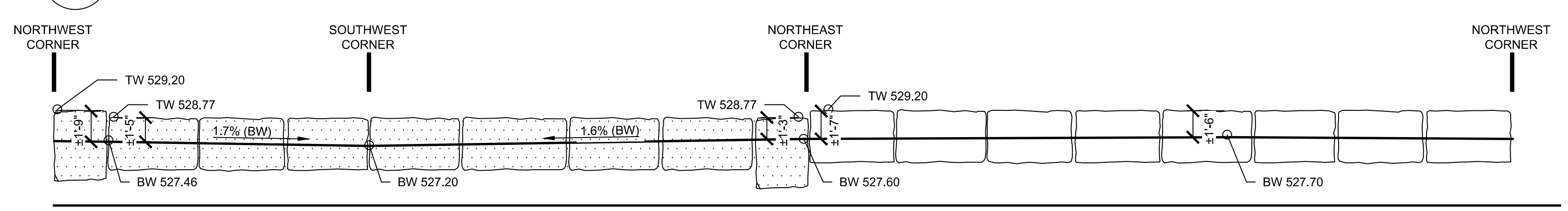
**L-803**



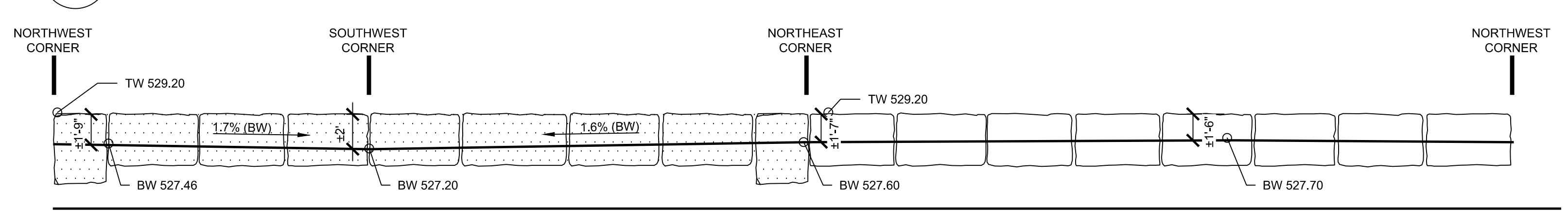
1 PLANTER WALL ELEVATION KEY PLAN  
L-803  
SCALE: 1/16" = 1'-0"



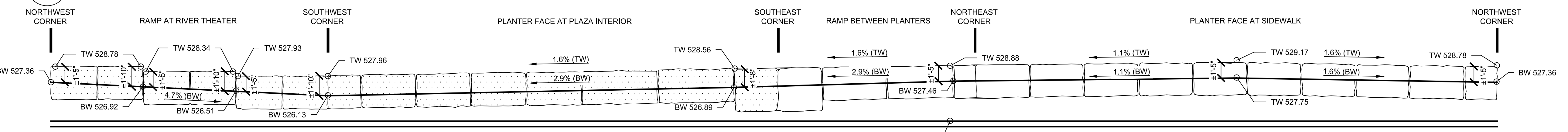
2 PLANTER 'C' PROFILE - OPTION 'A' SLOPED TOP OF WALL TO 2% MAX  
L-803  
SCALE: 3/16" = 1'-0"



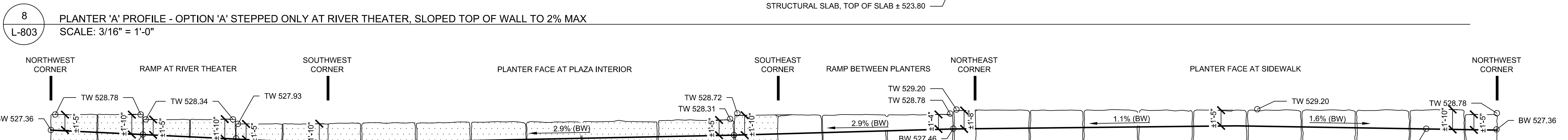
3 PLANTER 'C' PROFILE - OPTION 'B' STEPPED THROUGHOUT  
L-803  
SCALE: 3/16" = 1'-0"



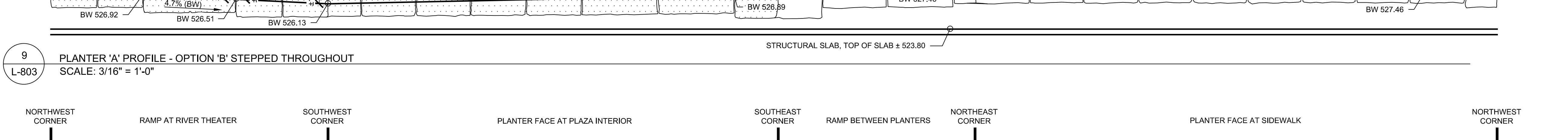
4 PLANTER 'C' PROFILE - OPTION 'C' CONSISTENT TOP OF WALL THROUGHOUT  
L-803  
SCALE: 3/16" = 1'-0"



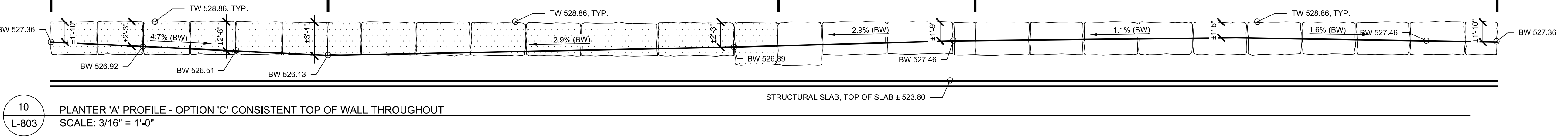
5 PLANTER 'B' PROFILE - OPTION 'A' SLOPED TOP OF WALL TO 2% MAX  
L-803  
SCALE: 3/16" = 1'-0"



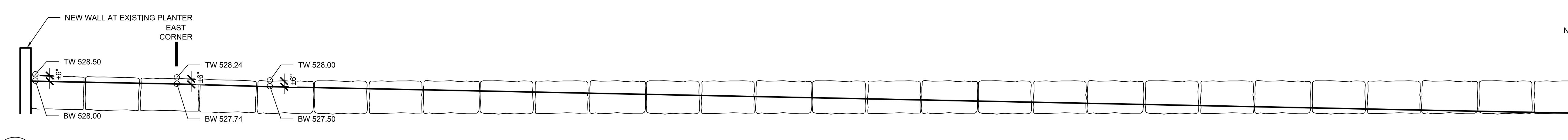
6 PLANTER 'B' PROFILE - OPTION 'B' STEPPED THROUGHOUT  
L-803  
SCALE: 3/16" = 1'-0"



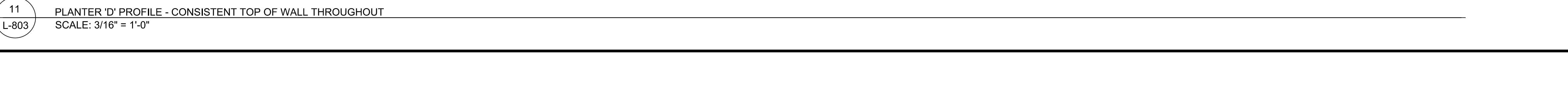
7 PLANTER 'B' PROFILE - OPTION 'C' CONSISTENT TOP OF WALL THROUGHOUT  
L-803  
SCALE: 3/16" = 1'-0"



8 PLANTER 'A' PROFILE - OPTION 'A' STEPPED ONLY AT RIVER THEATER, SLOPED TOP OF WALL TO 2% MAX  
L-803  
SCALE: 3/16" = 1'-0"



9 PLANTER 'A' PROFILE - OPTION 'B' STEPPED THROUGHOUT  
L-803  
SCALE: 3/16" = 1'-0"



10 PLANTER 'A' PROFILE - OPTION 'C' CONSISTENT TOP OF WALL THROUGHOUT  
L-803  
SCALE: 3/16" = 1'-0"



11 PLANTER 'D' PROFILE - CONSISTENT TOP OF WALL THROUGHOUT  
L-803  
SCALE: 3/16" = 1'-0"

07/2018 2:00:34 PM C:\pwworkspace\Bayer\Local\Bayer-2170391 - Runel Library Phase IV - RLB\_Micro.rvt



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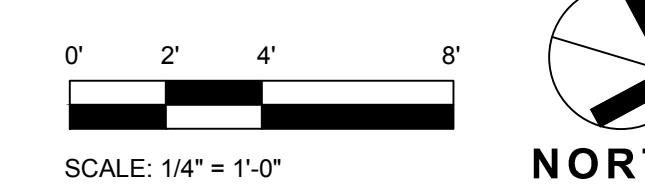
**CITY OF ROCHESTER**  
414 ANDREWS STREET  
ROCHESTER, NY 14604

**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

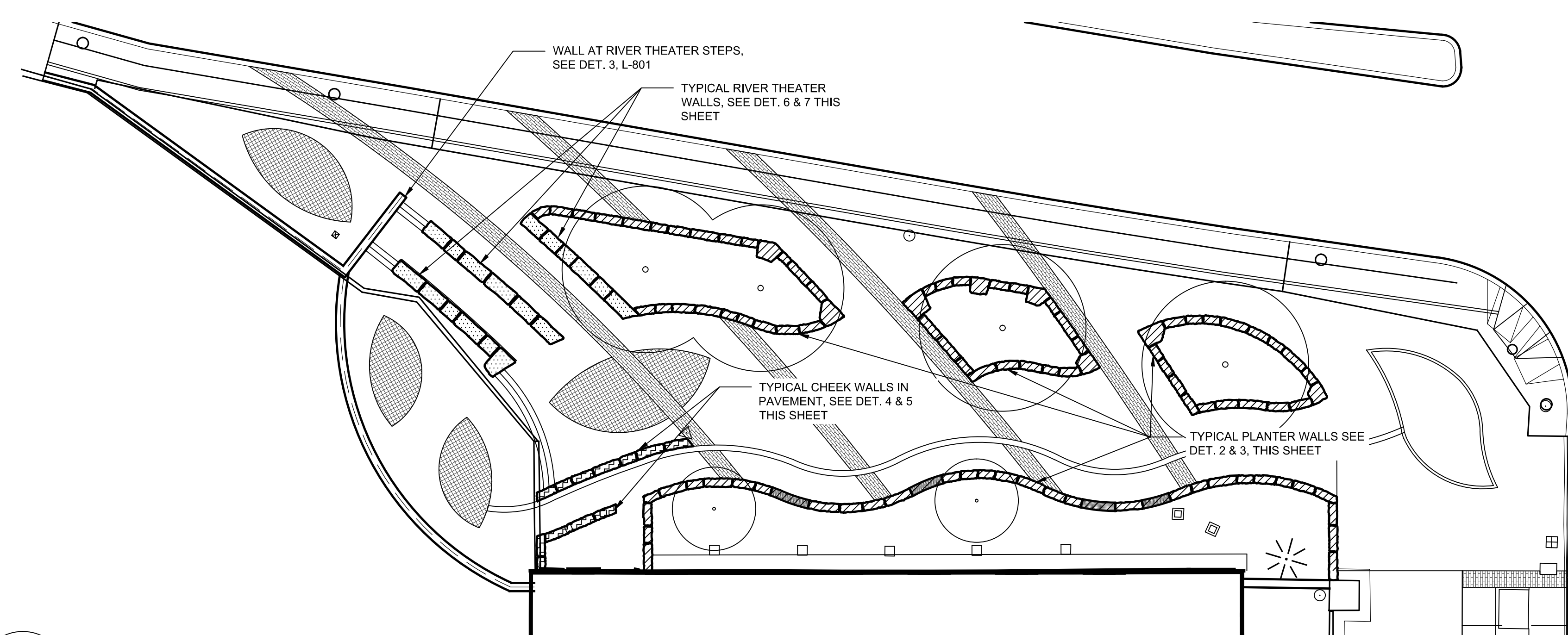
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE  
WALL DETAILS**

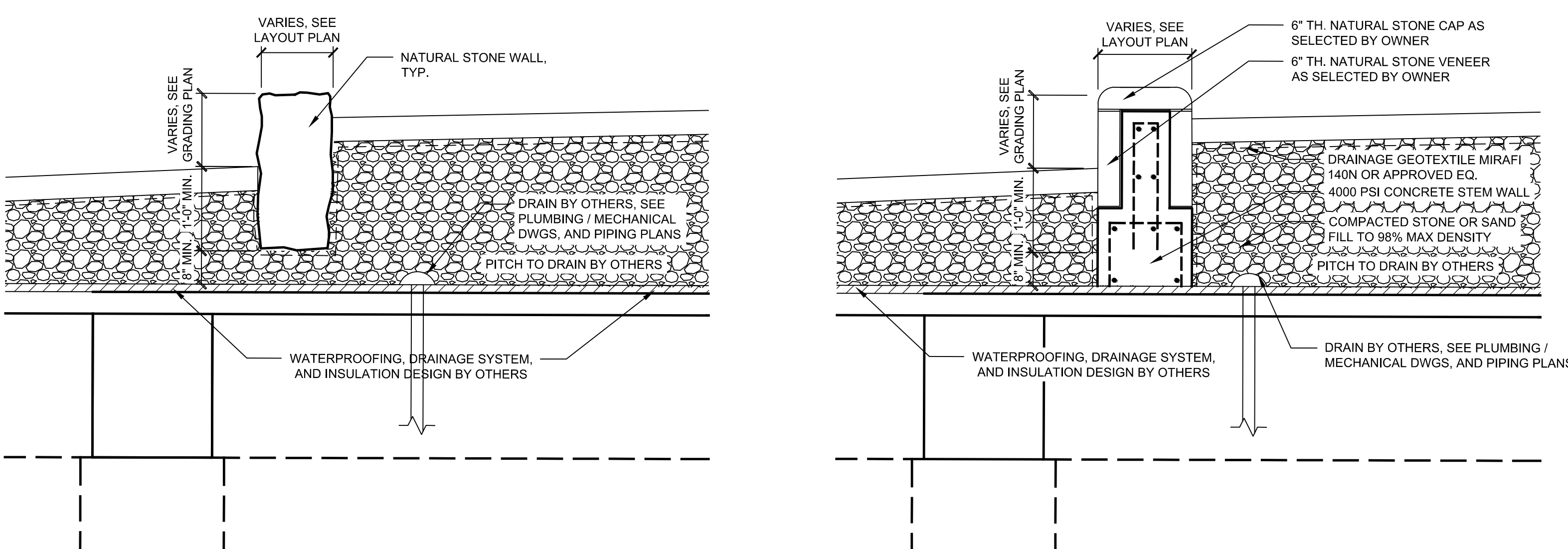
DRAWING NUMBER:



**L-804**

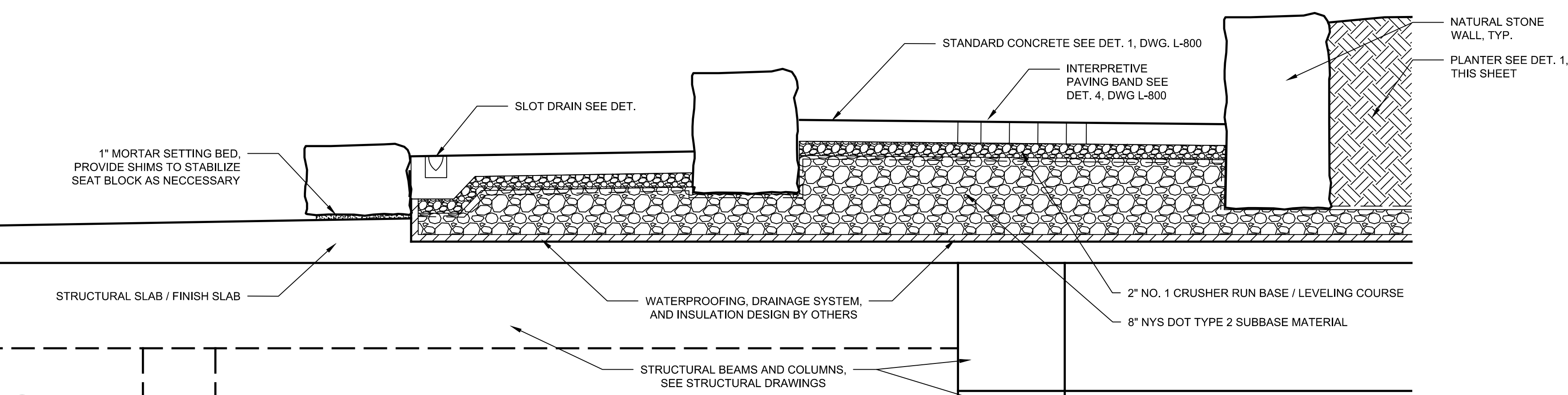


**1**  
L-804  
**WALL DETAILS KEY PLAN**  
SCALE: 1/16" = 1'-0"

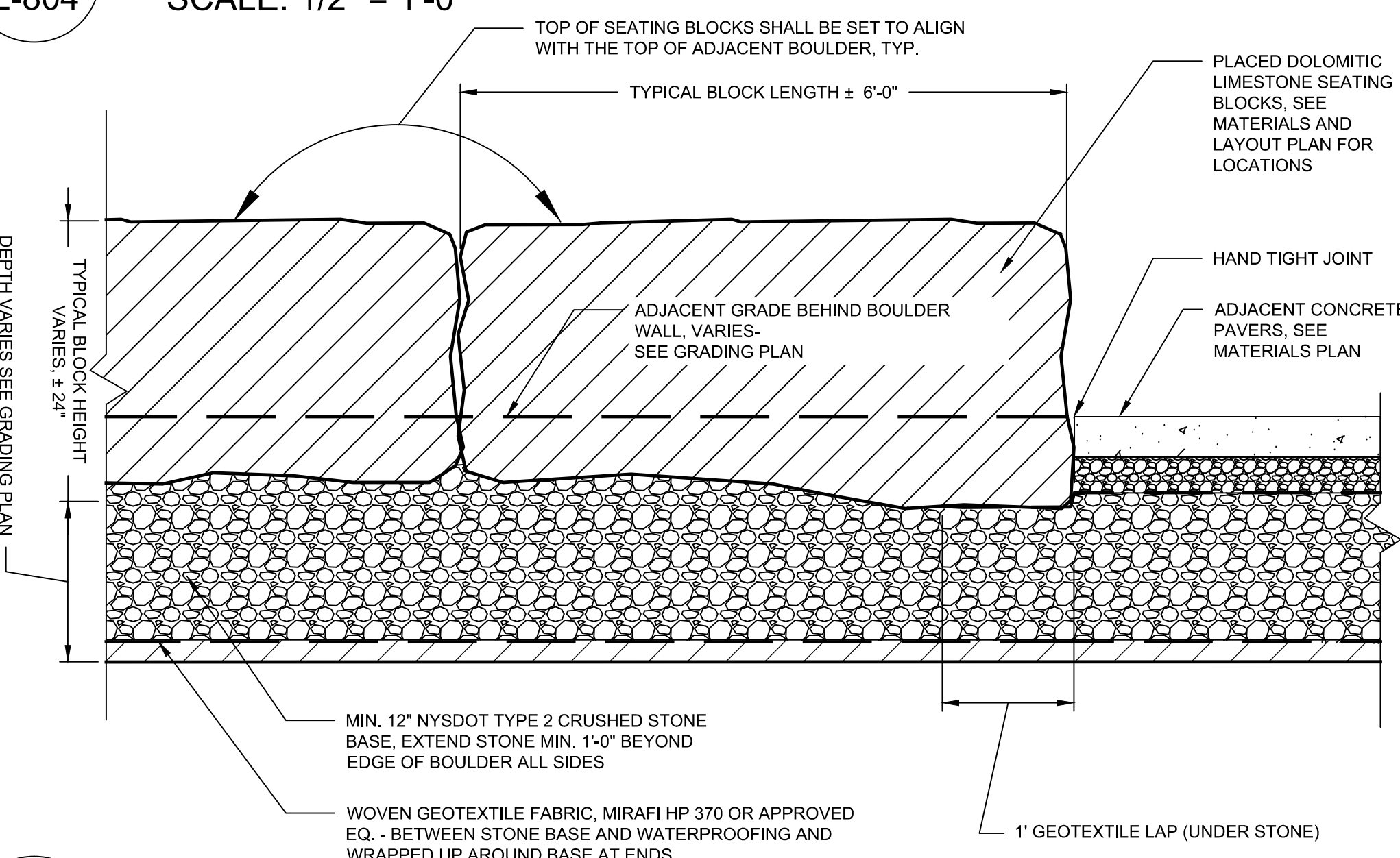


**4**  
L-804  
**TYPICAL CHEEK WALL IN PAVEMENT - OPTION A: NATURAL STONE BOULDER**  
SCALE: 1/2" = 1'-0"

**5**  
L-804  
**TYPICAL CHEEK WALL IN PAVEMENT - OPTION B: NATURAL STONE VENEER**  
SCALE: 1/2" = 1'-0"

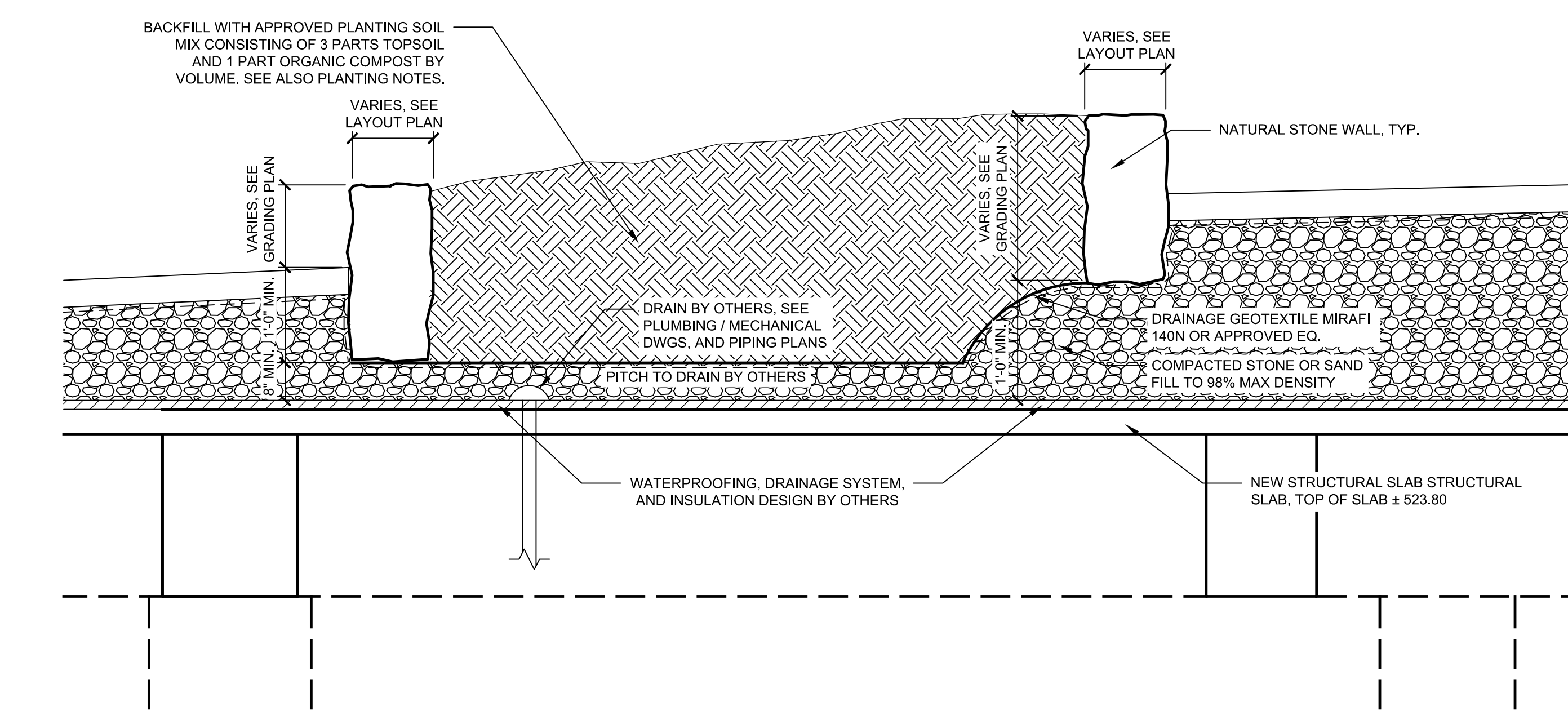


**6**  
L-804  
**TYPICAL RIVER THEATER SEAT WALLS**  
SCALE: 1/2" = 1'-0"

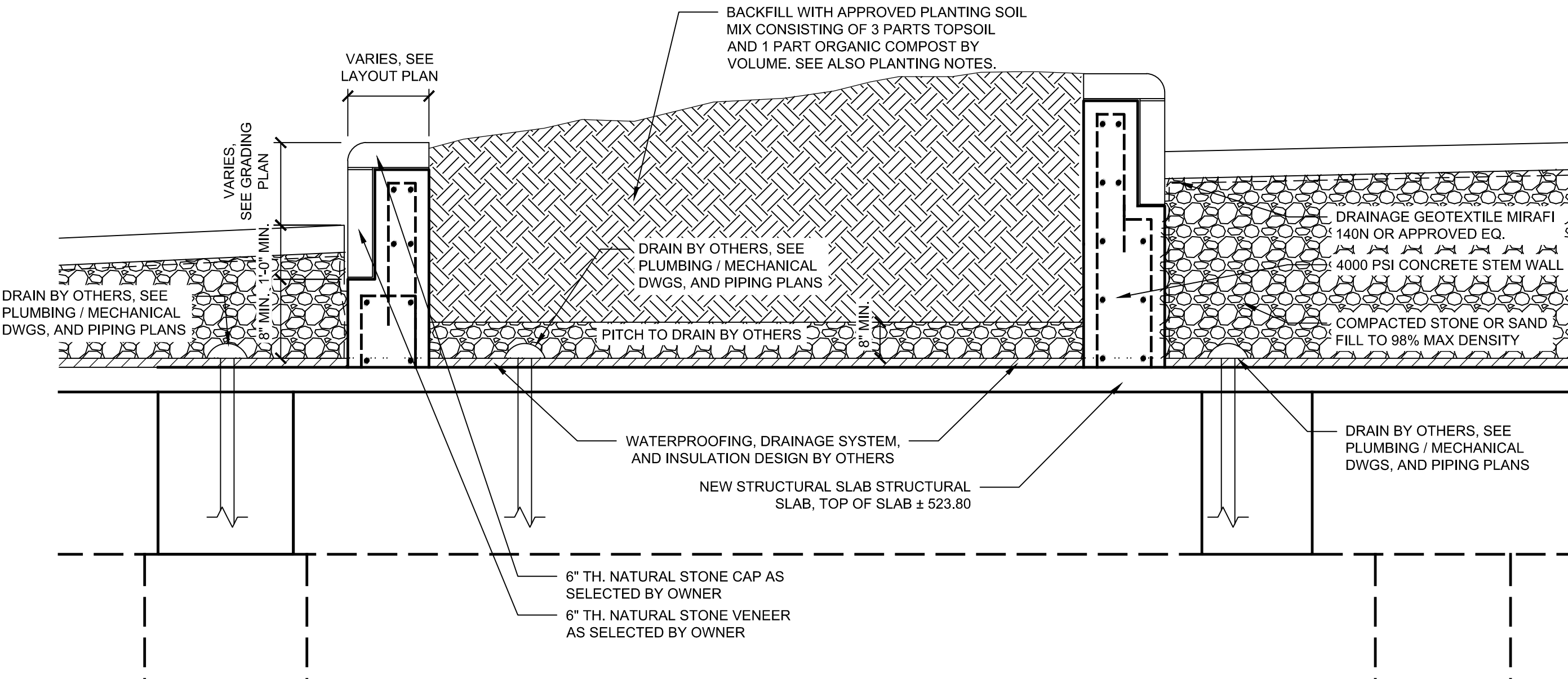


- NATURAL STONE SEAT WALL NOTES:**
- A. BASE BID - DOLOMITE STONE. SEE DESCRIPTION BELOW.  
B. ALTERNATE #2 - WILLIAMS STONE CO. WWW.WILLIAMSTONE.COM. (9) BLOCKS OF ECONOMY CURBING TO BE SPLIT FACE. 24" TYP. BLOCK HEIGHT, 18"-24" WIDTH AND 6' LENGTH.
  - SEAT WALL BLOCK SHALL BE RELATIVELY UNIFORM IN WIDTH AND HEIGHT AND FREE OF MAJOR CLEFTS AND IMPERFECTIONS IN THE SEATING SURFACE.
  - SEAT WALL BLOCKS SHALL BE ±24" WIDE ON THE TOP SEATING SURFACE. LENGTHS SHALL BE ±72". HEIGHT SHALL BE ±18" ABOVE GRADE, 6" BELOW GRADE MATCHED FOR WIDTH.
  - ALL BLOCKS SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE QUARRY, PRIOR TO DELIVERY TO THE PROJECT SITE. THE CONTRACTOR SHALL GIVE THE LANDSCAPE ARCHITECT 72 HOURS NOTICE FOR REVIEW COORDINATION.
  - THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF ALL STONE SEATING BLOCKS IN THE FIELD FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PLACEMENT.
  - THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT 72-HOURS IN ADVANCE OF PLACEMENT OF BOULDERS. LANDSCAPE ARCHITECT WILL BE ON SITE TO ASSIST THE CONTRACTOR WITH BOULDER LAYOUT.

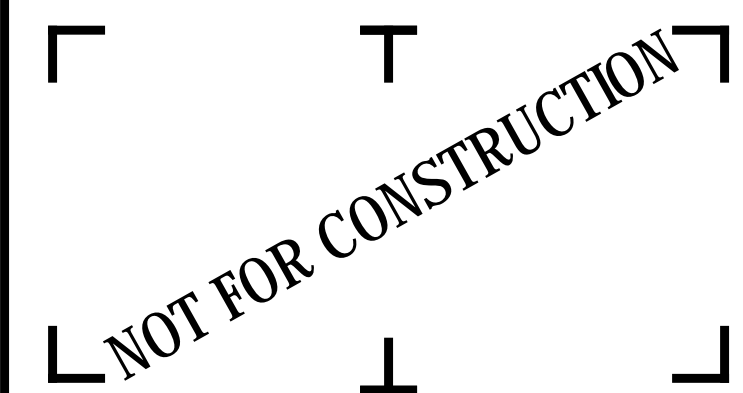
**7**  
L-804  
**TYPICAL PROFILE RIVER THEATER SEAT WALLS**  
SCALE: 1/2" = 1'-0"



**2**  
L-804  
**TYPICAL PLANTER WALLS - OPTION A: NATURAL STONE BOULDERS**  
SCALE: 1/2" = 1'-0"



**3**  
L-804  
**TYPICAL PLANTER WALLS - OPTION B: NATURAL STONE VENEER**  
SCALE: 1/2" = 1'-0"



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**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2170391

DRAWN BY: JJR / DPZ

ISSUED FOR: 35% PRELIMINARY DESIGN

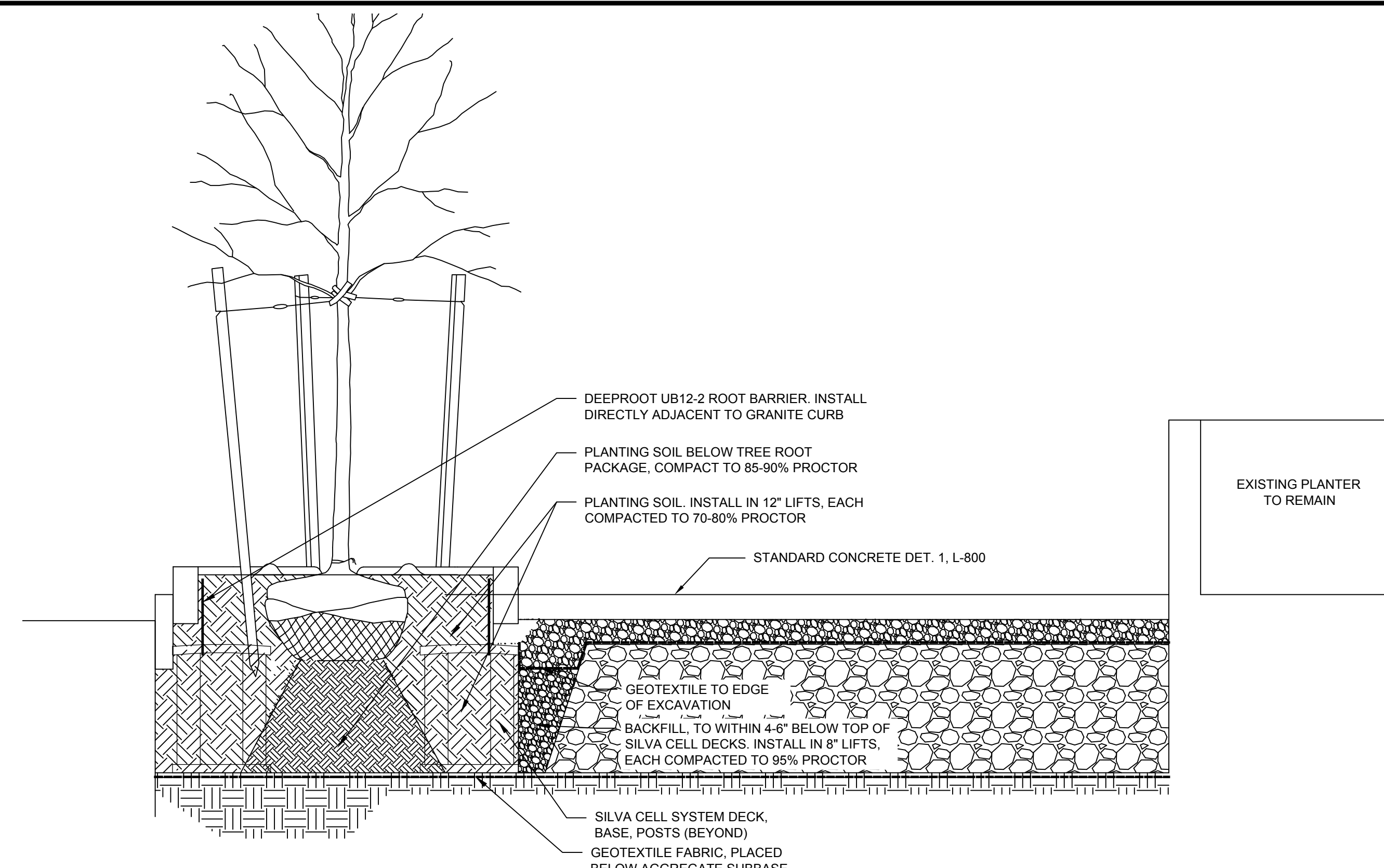
DATE: JULY 2018

DRAWING NAME:

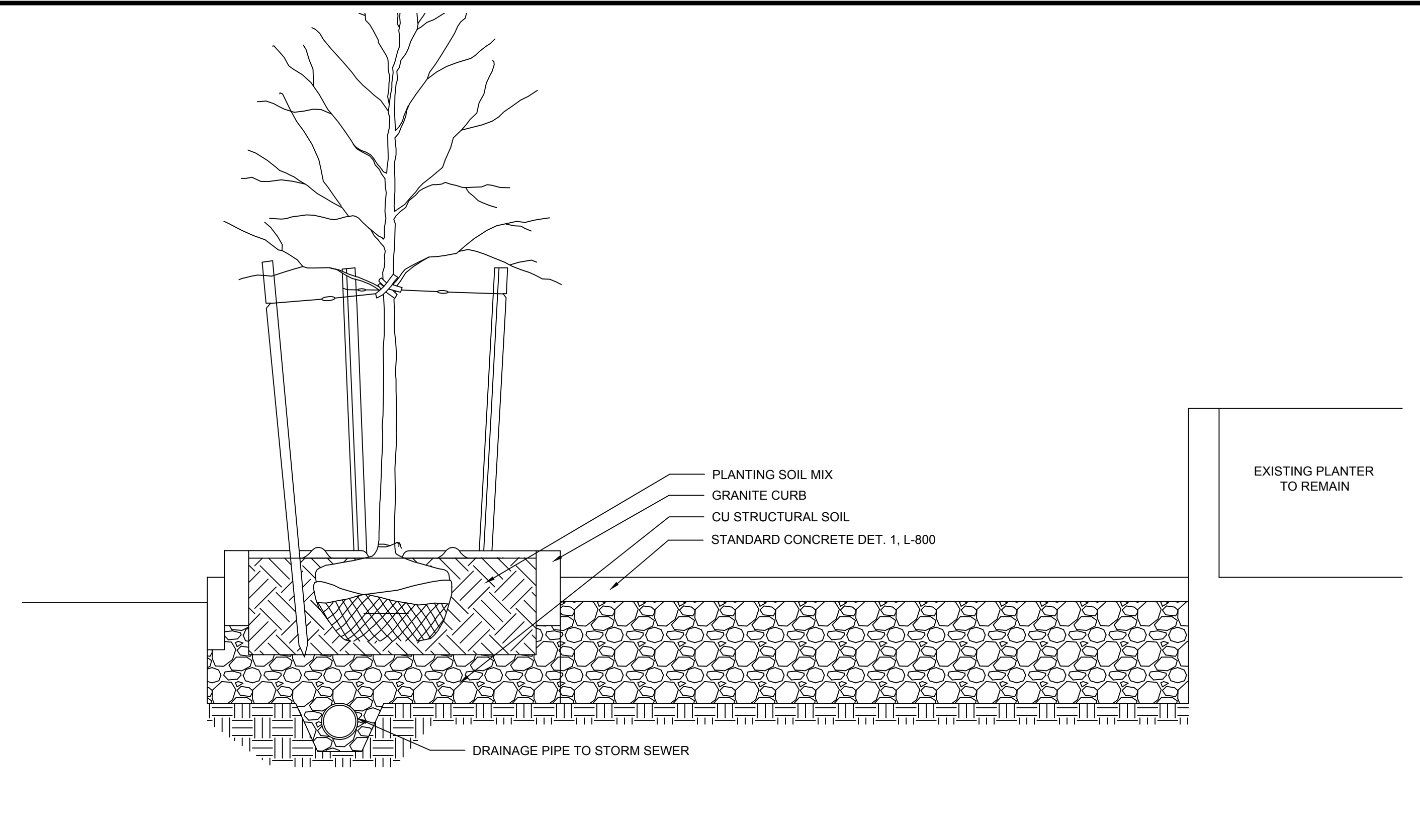
**SITE DETAILS**

DRAWING NUMBER:

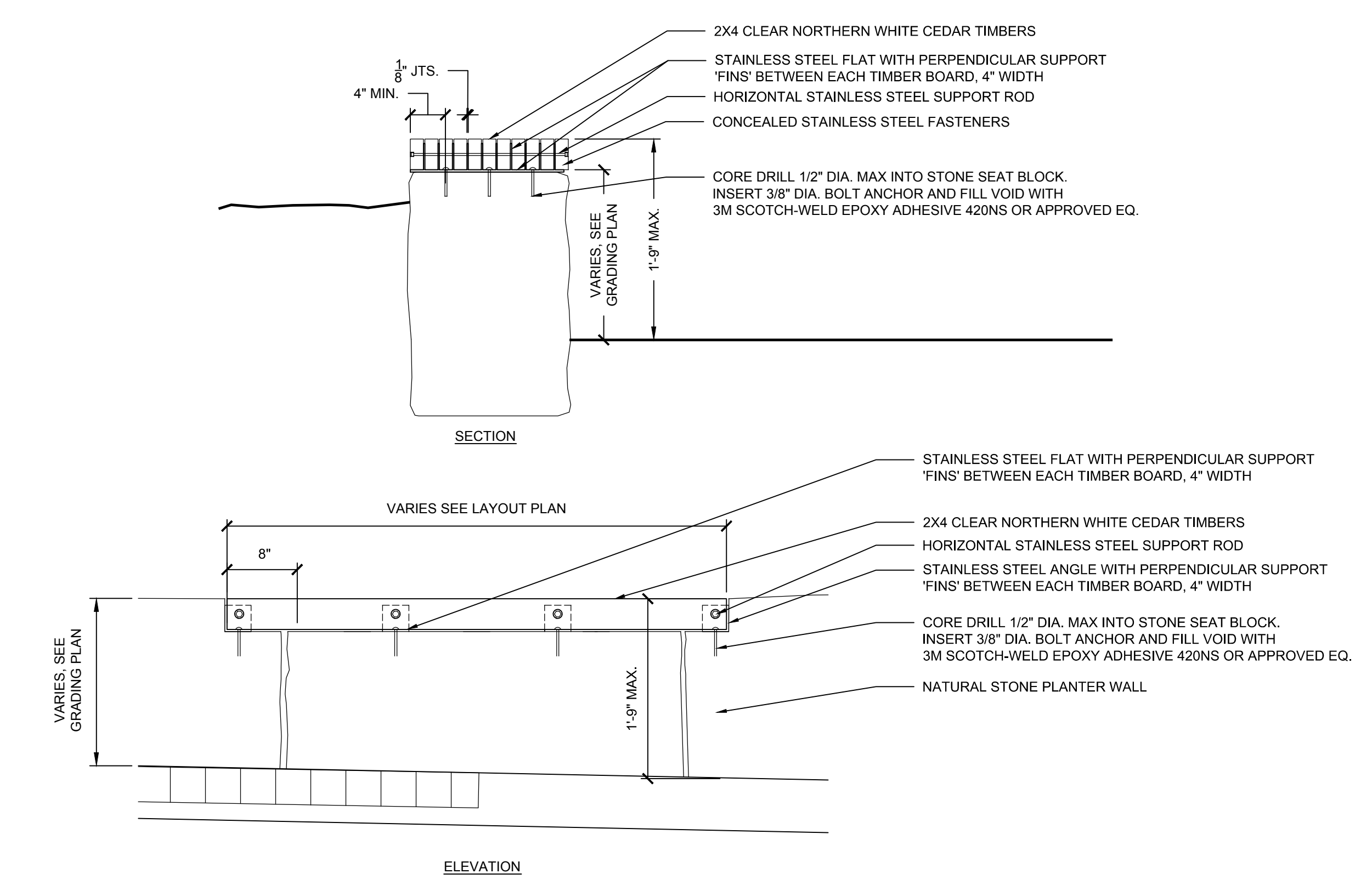
**L-805**



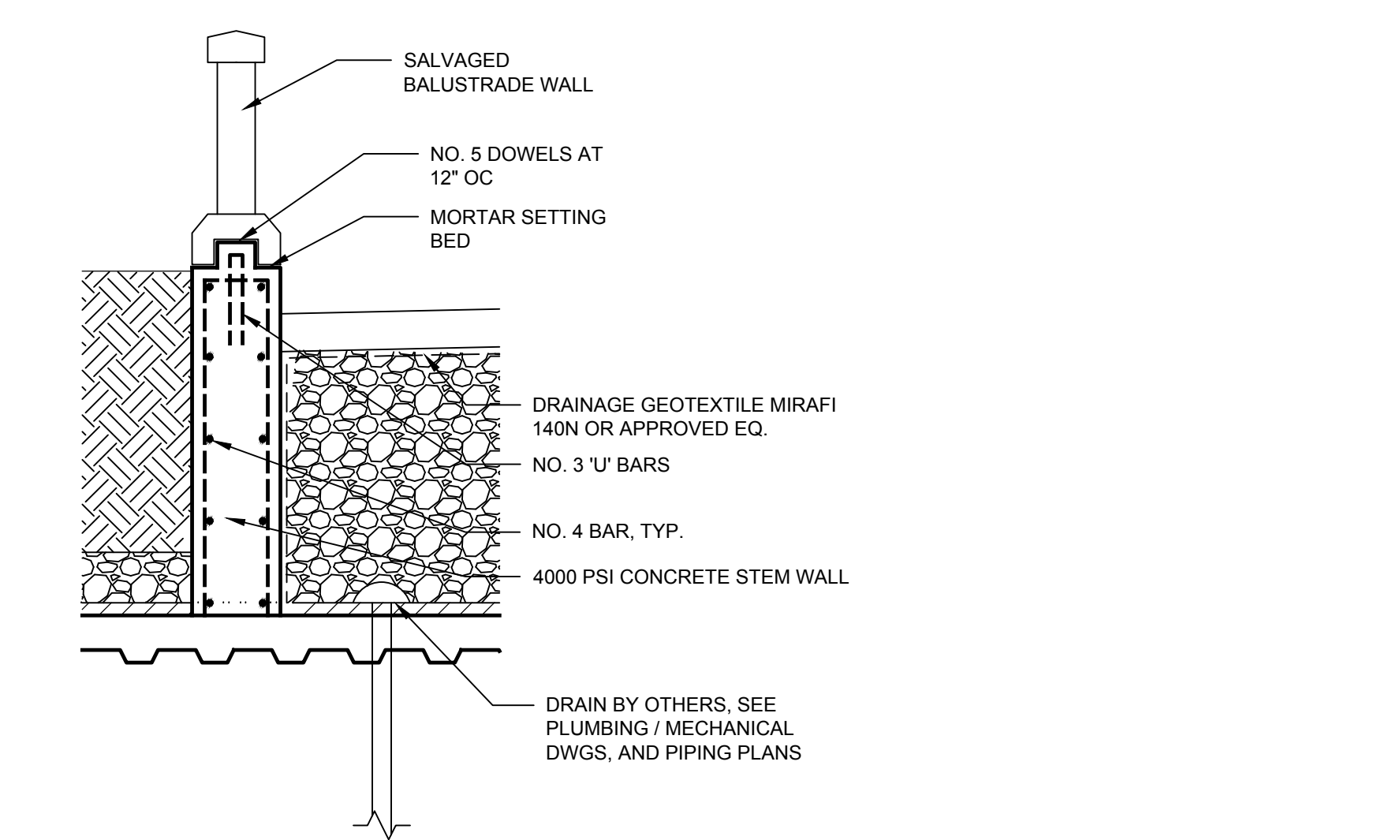
**2**  
L-805  
**ADD ALT. - EAST SIDEWALK STREET TREE SILVA CELL TRENCH**  
SCALE: 1/4"=1'-0"



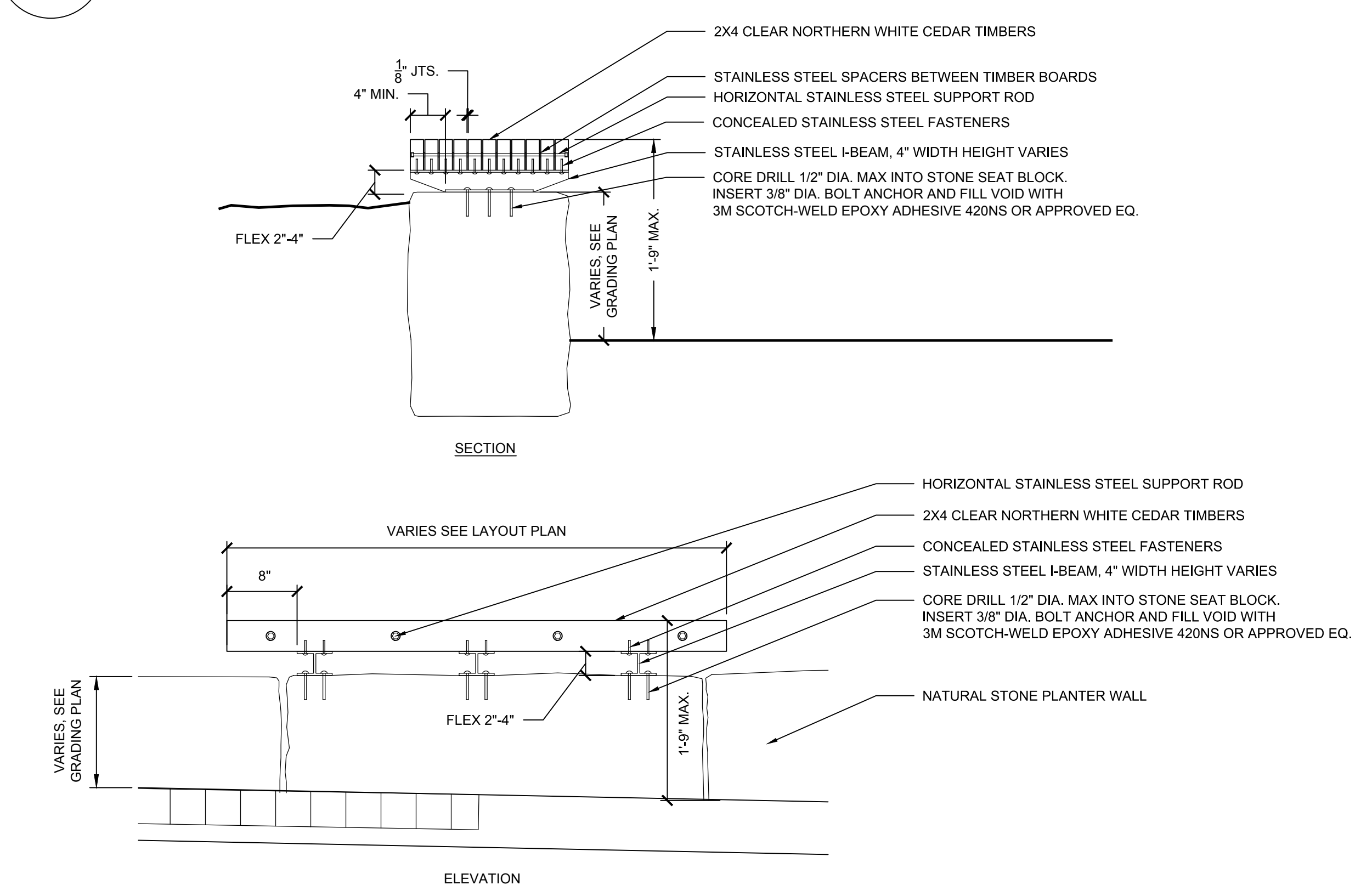
**1**  
L-805  
**BASE BID - EAST SIDEWALK STREET TREE CU STRUCTURAL SOIL TRENCH**  
SCALE: 1/4"=1'-0"



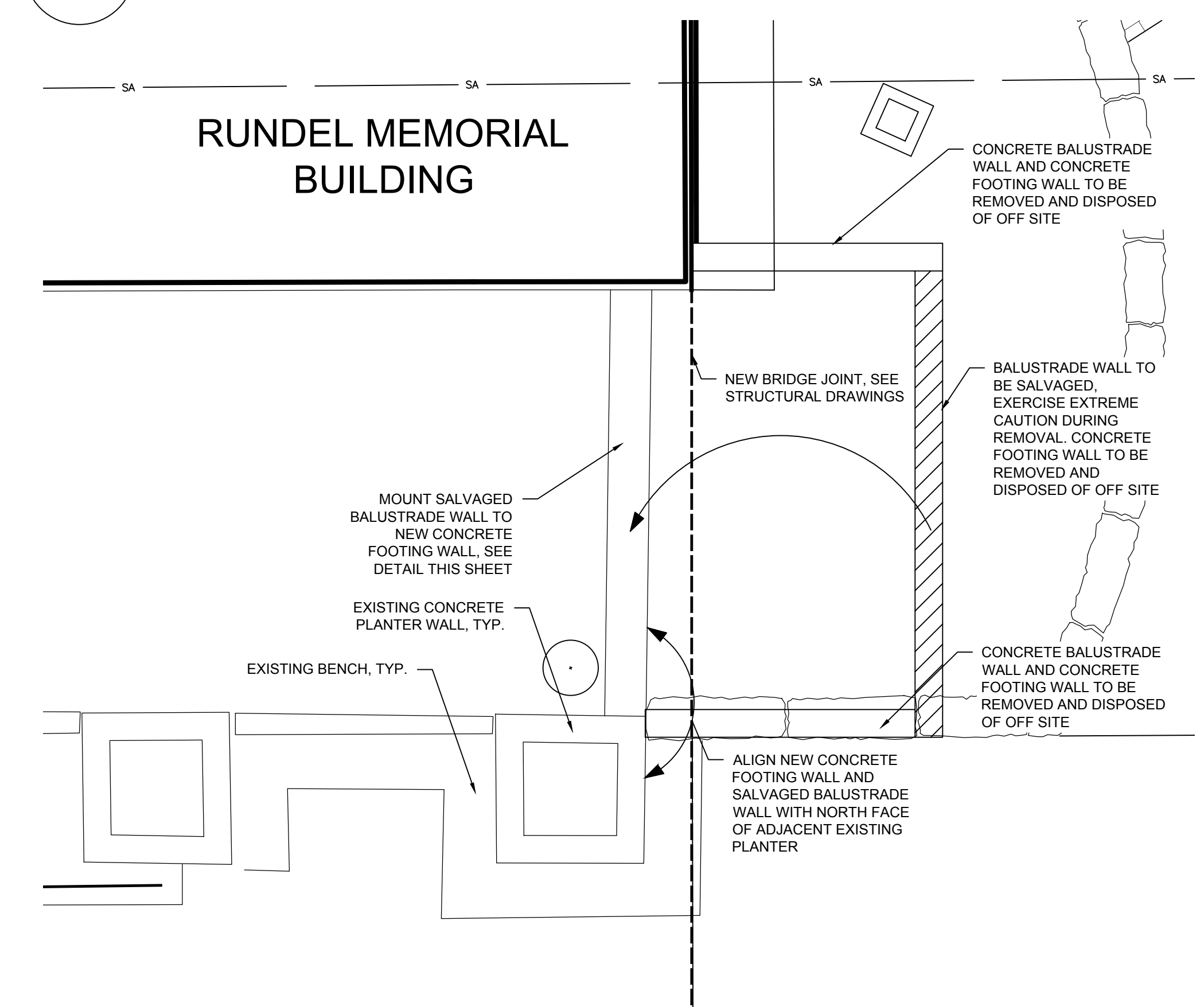
**5**  
L-805  
**RECESSED TIMBER BENCH AT NATURAL STONE WALL**  
SCALE: 1/4"=1'-0"



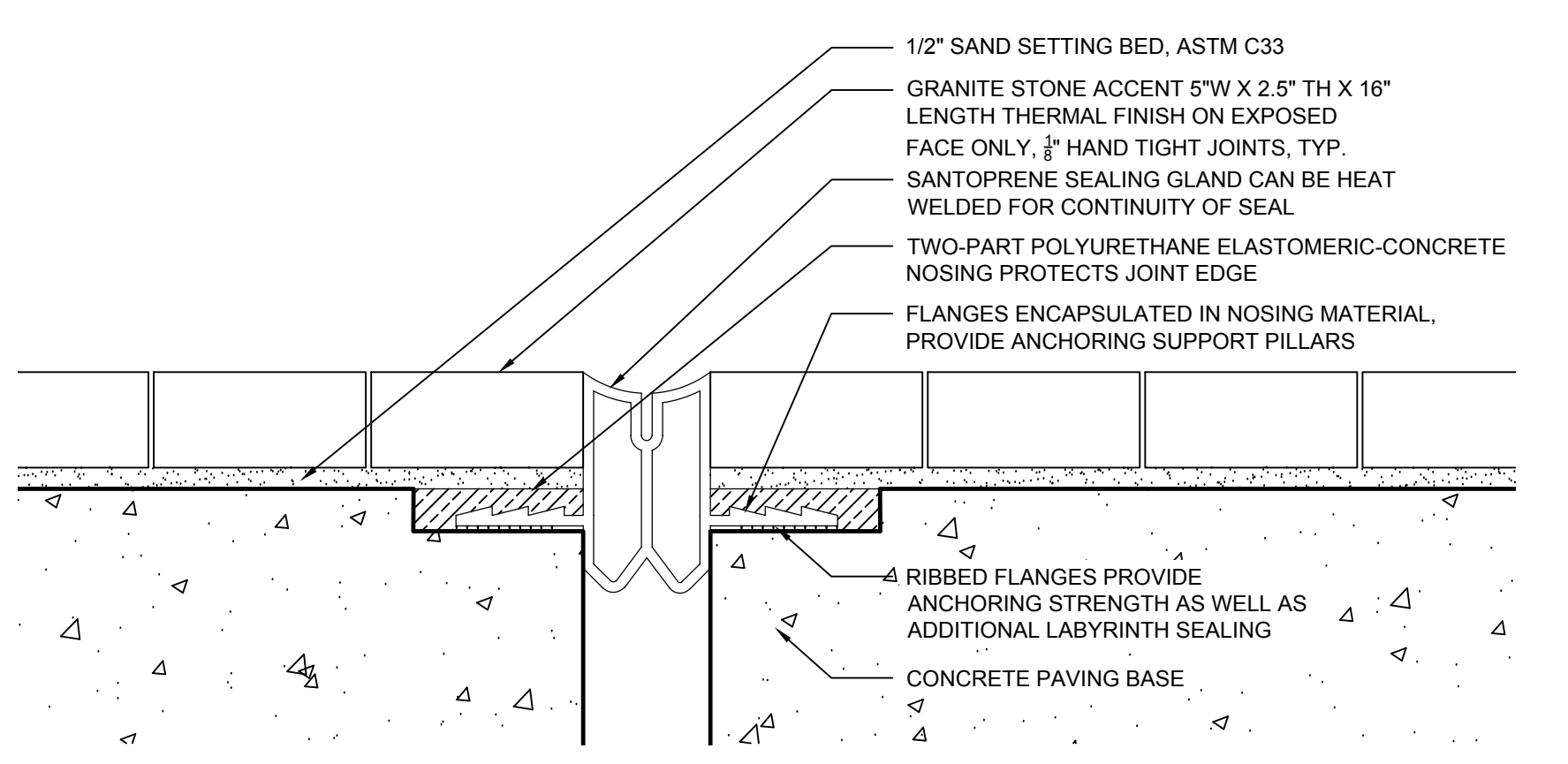
**4**  
L-805  
**SALVAGED BALUSTRADE WALL MOUNTING DETAIL**  
SCALE: 1/2"=1'-0"



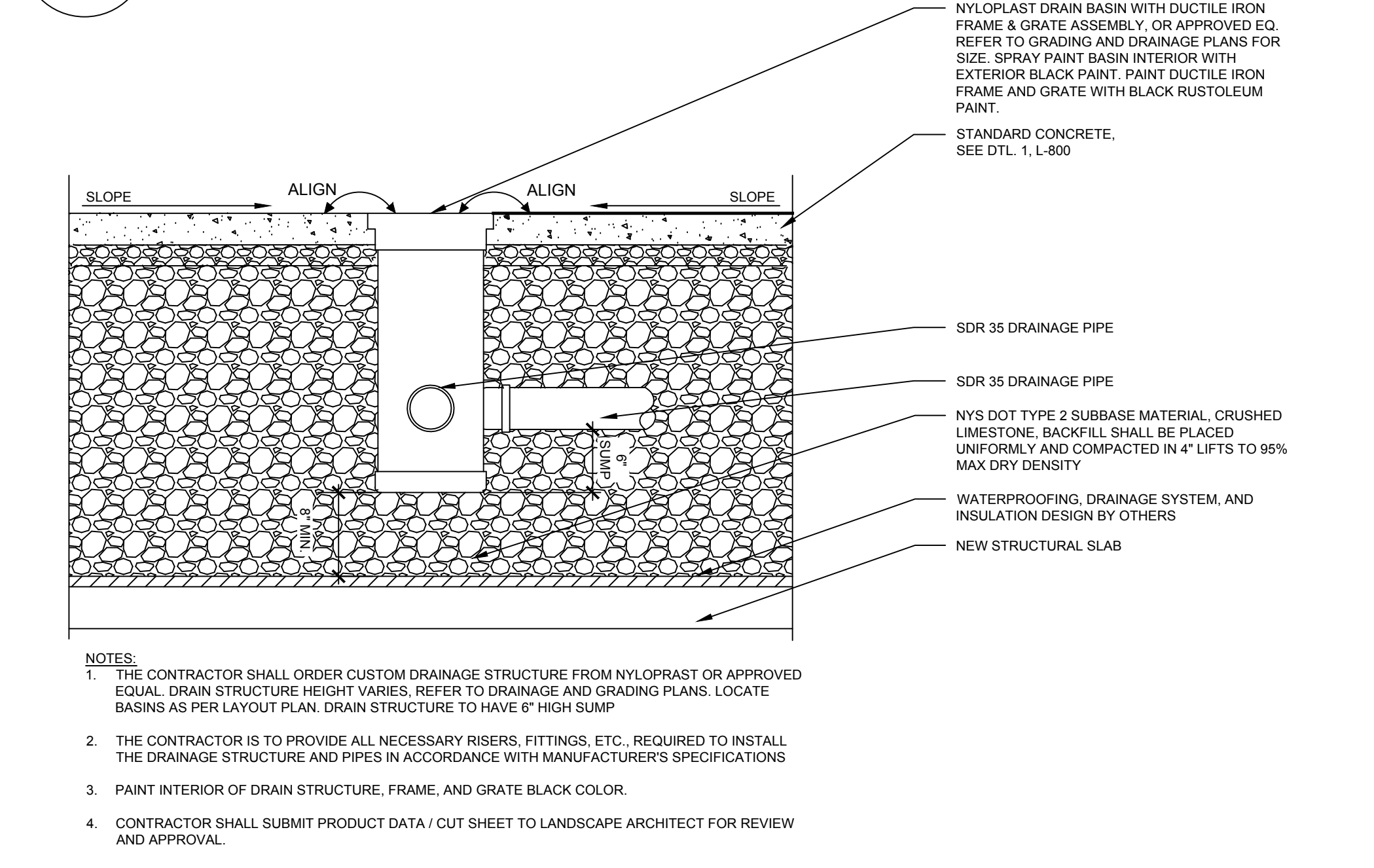
**8**  
L-805  
**RAISED TIMBER BENCH AT NATURAL STONE WALL**  
SCALE: 1/4"=1'-0"



**3**  
L-805  
**EXISTING BALUSTRADE WALL RELOCATION PLAN**  
SCALE: 1/4"=1'-0"

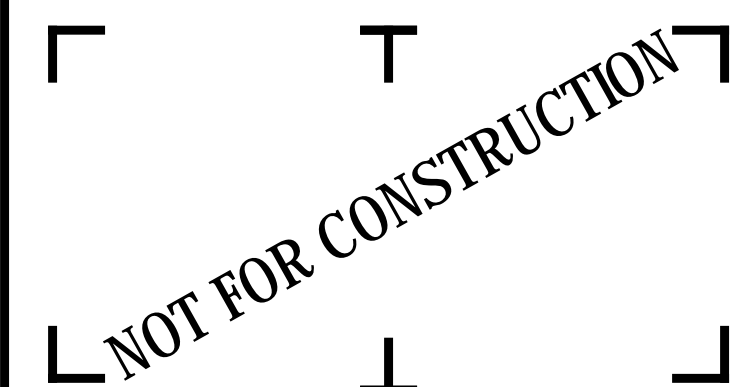


**7**  
L-805  
**TYPICAL BRIDGE JOINT IN GRANITE PAVERS**  
SCALE: 1/2"=1'-0"



**6**  
L-805  
**TYPICAL DRAIN INLET**  
SCALE: 1"=1'-0"

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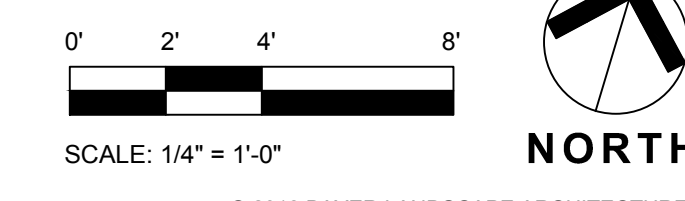
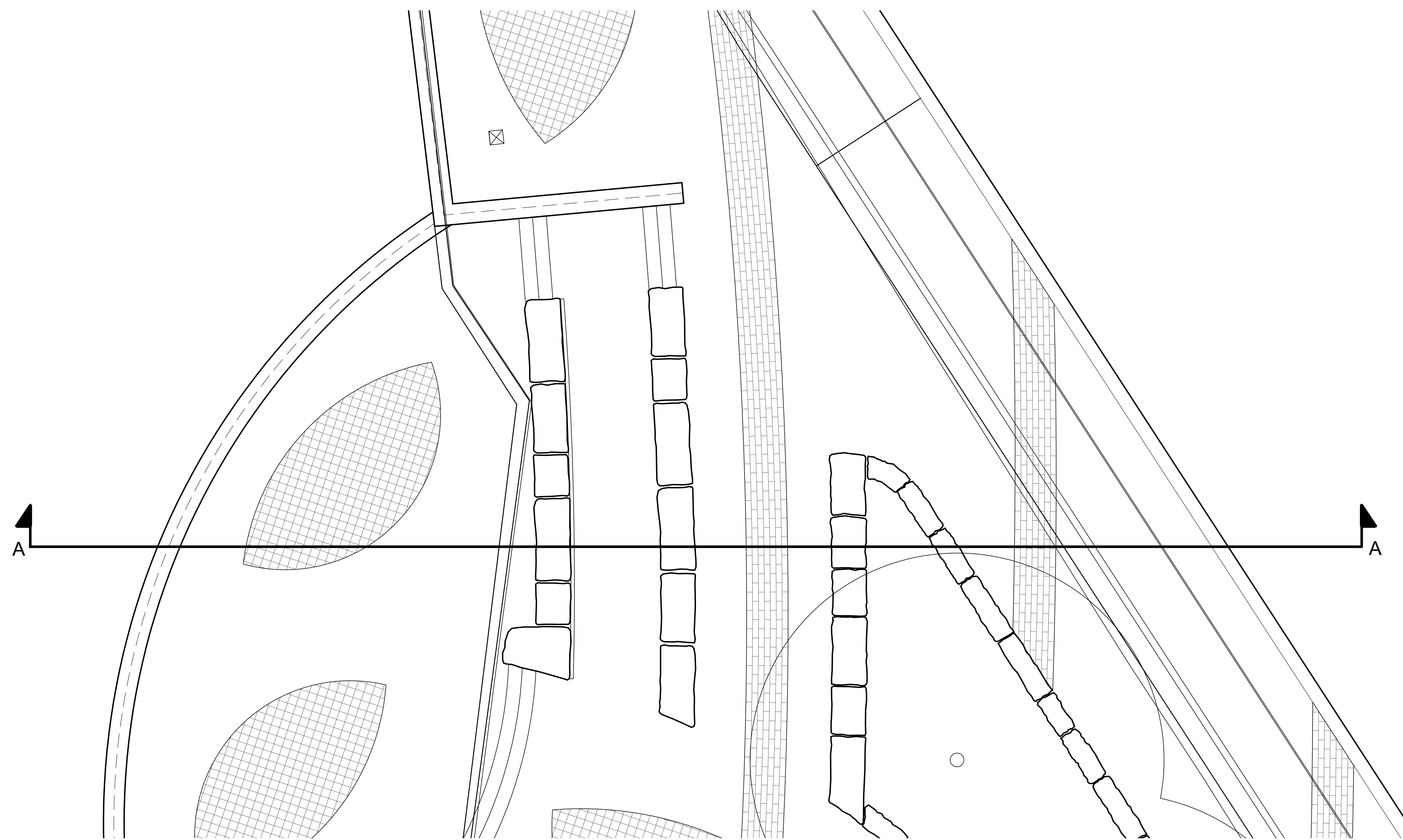
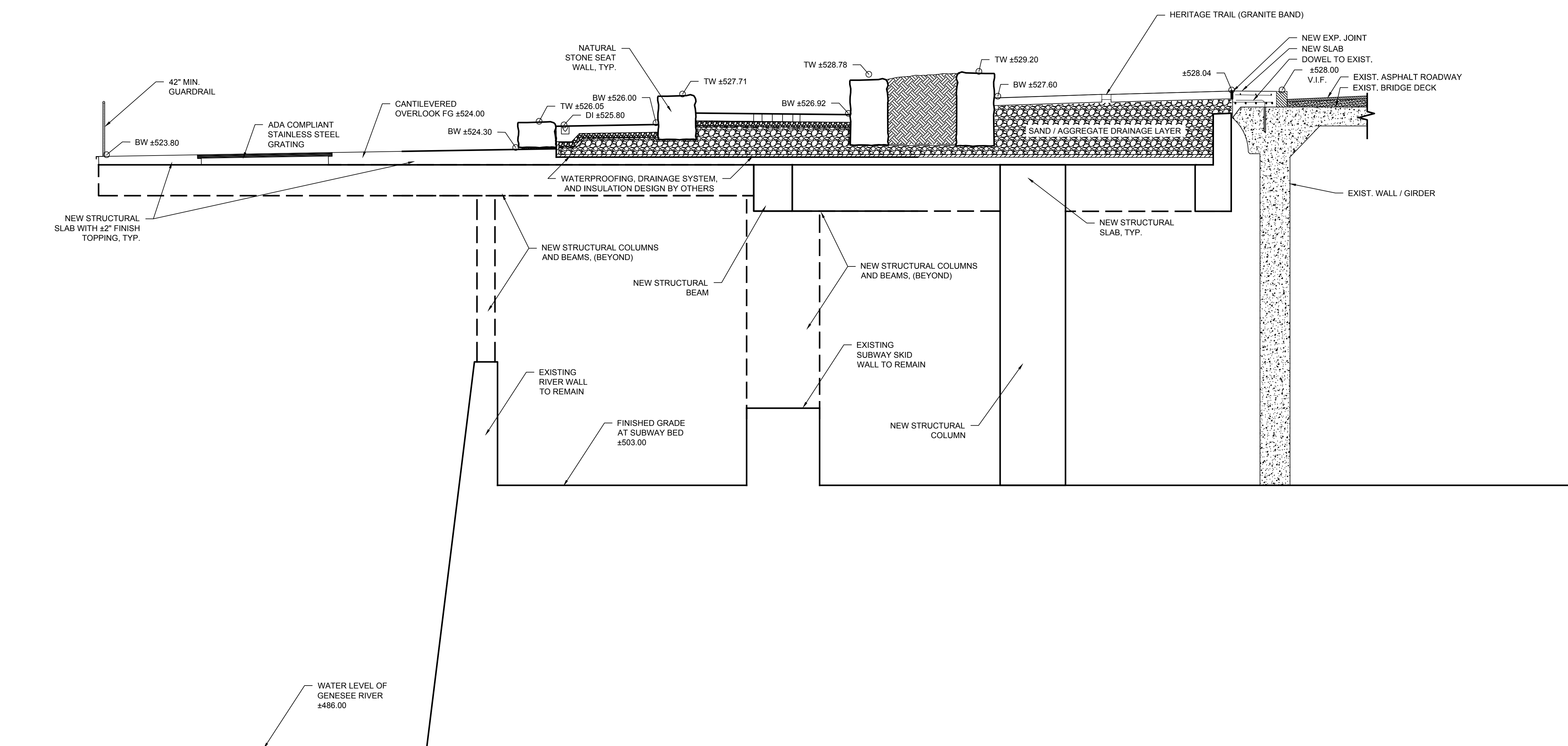
**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE SECTION A.A**

DRAWING NUMBER:

**L-900**



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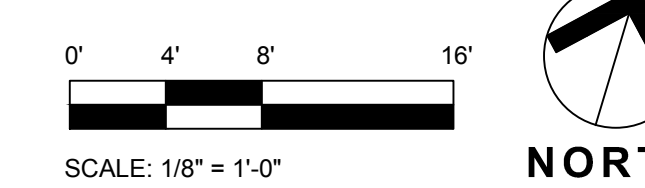
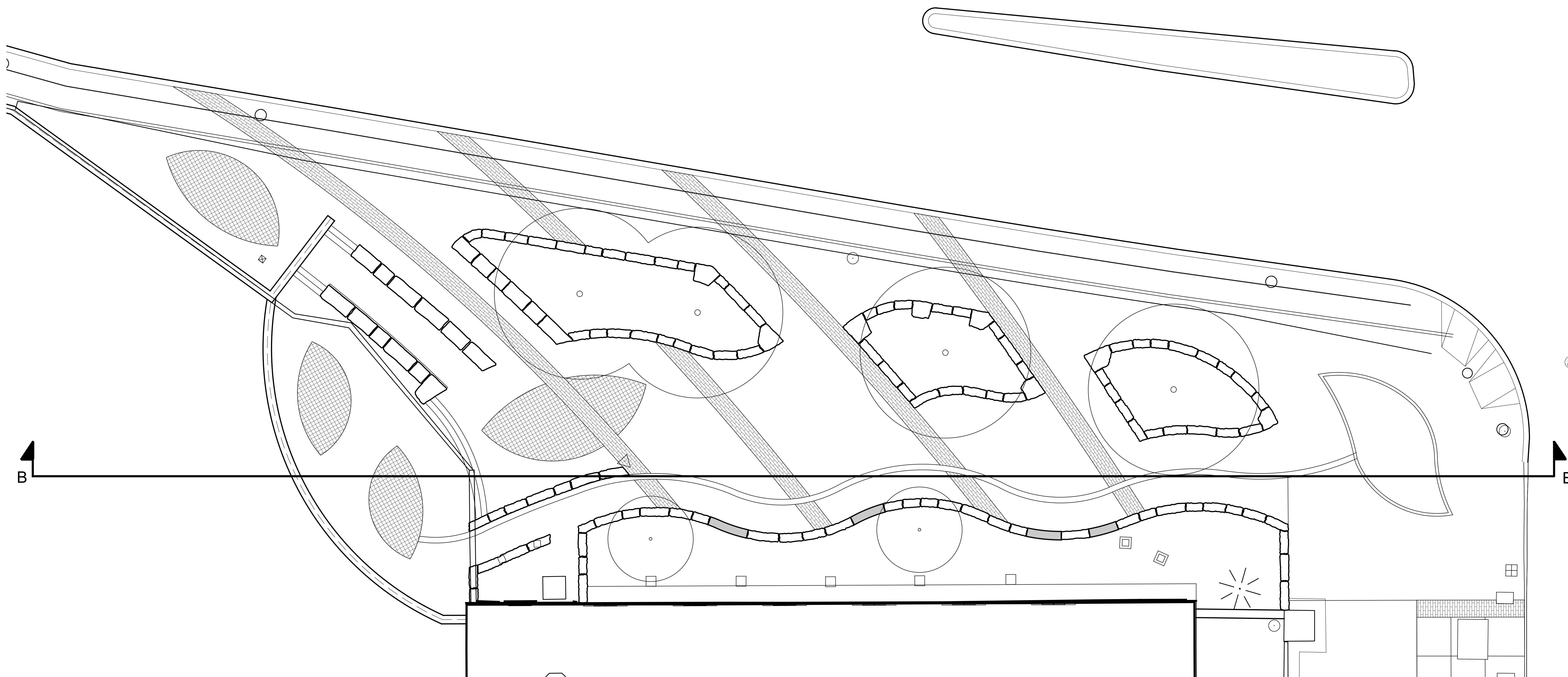
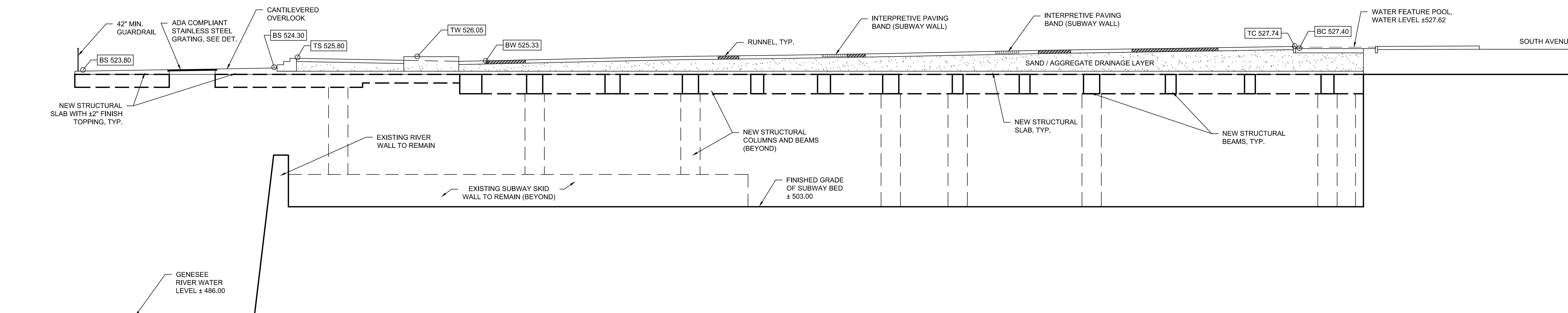
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115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE SECTION B.B**

DRAWING NUMBER:

**L-901**



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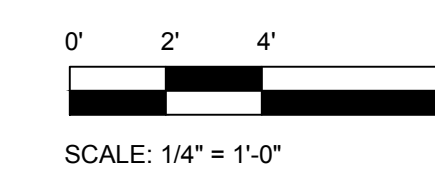
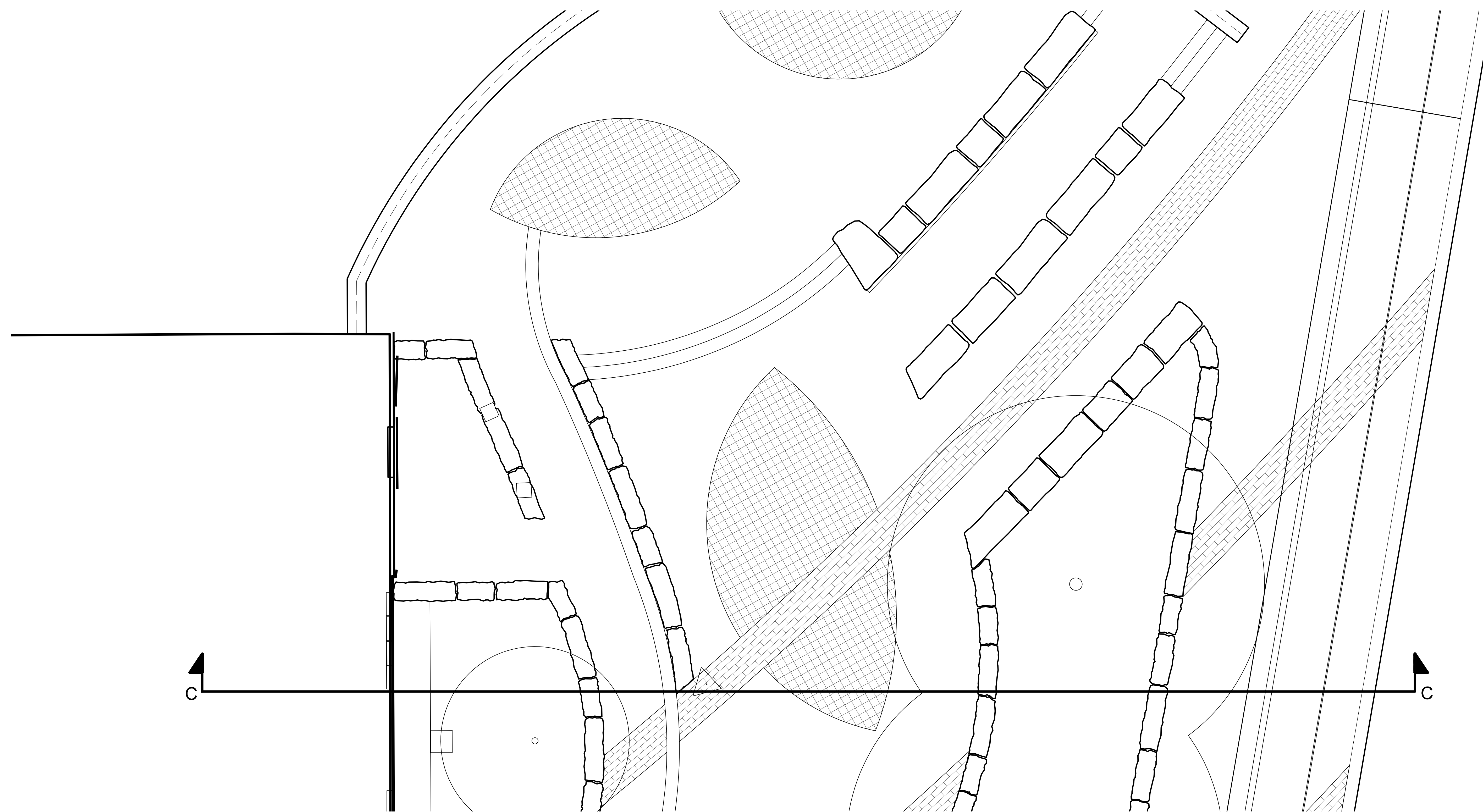
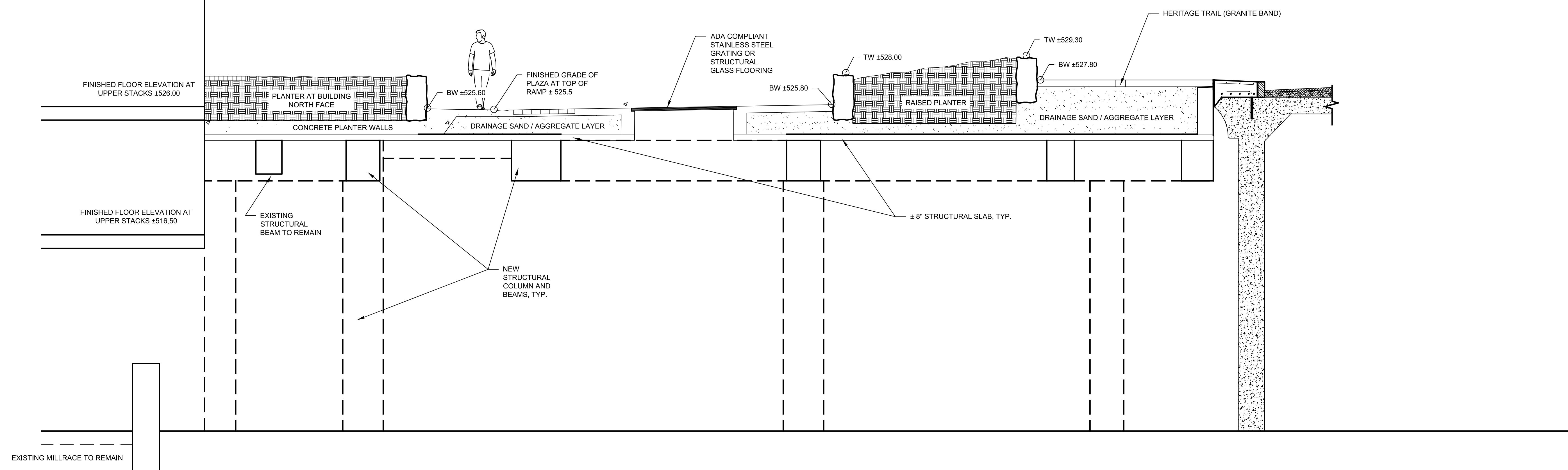
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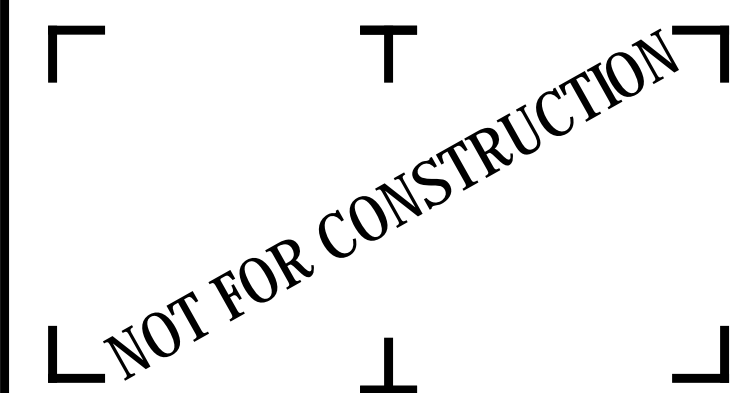
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE SECTION C.C**

DRAWING NUMBER:

**L-902**





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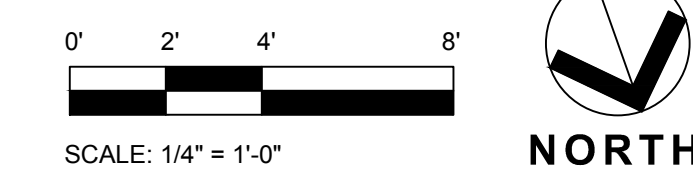
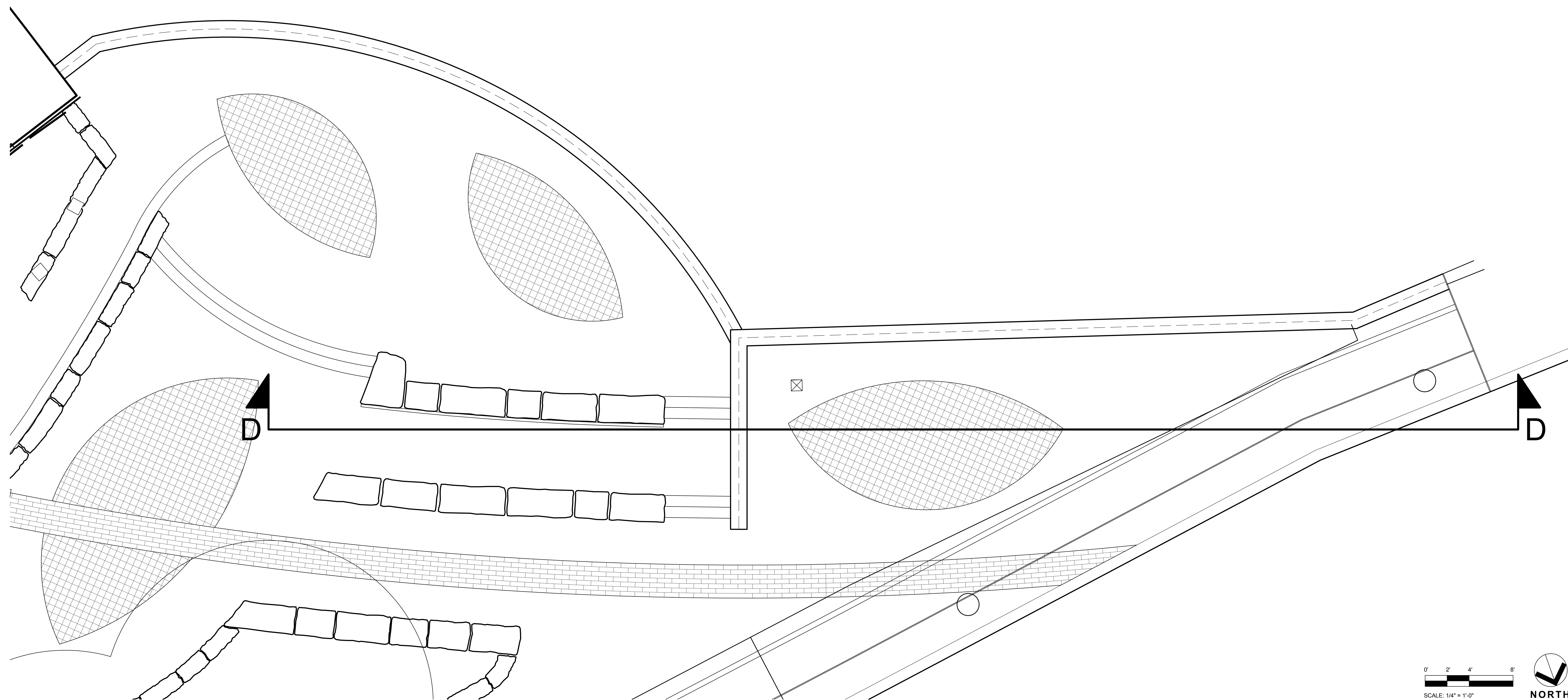
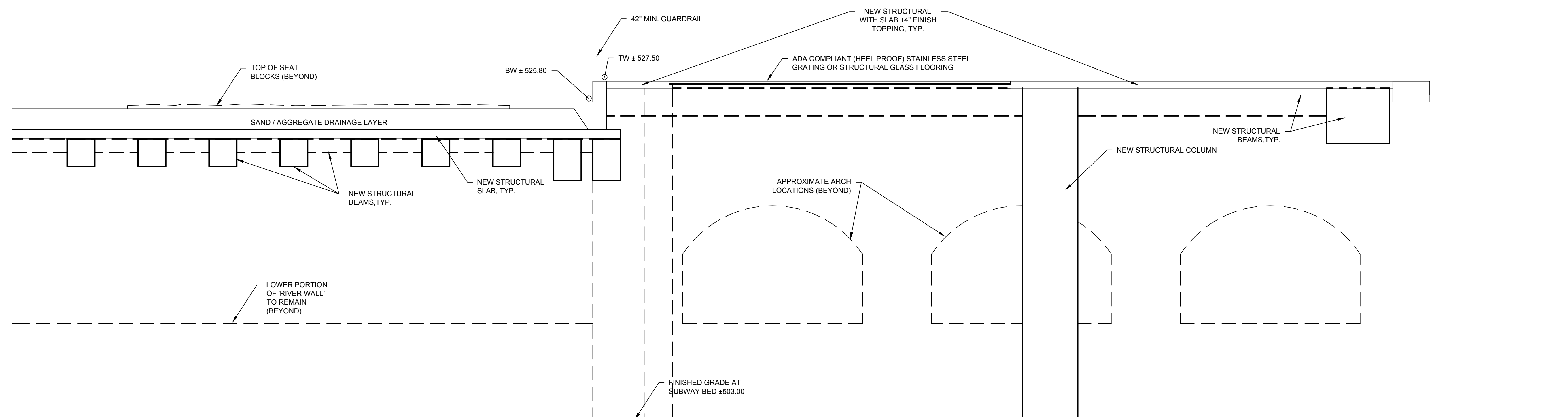
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NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
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ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

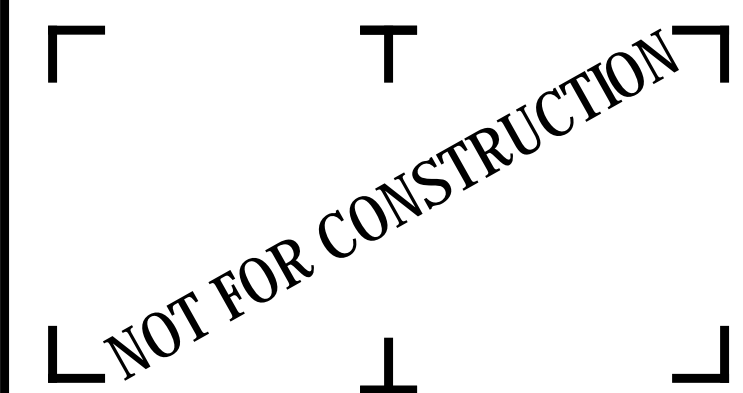
**NORTH TERRACE  
SECTION D.D**

DRAWING NUMBER:

**L-903**



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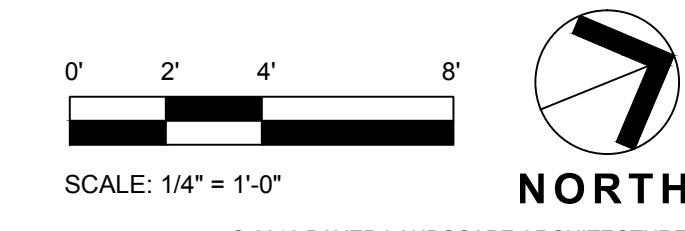
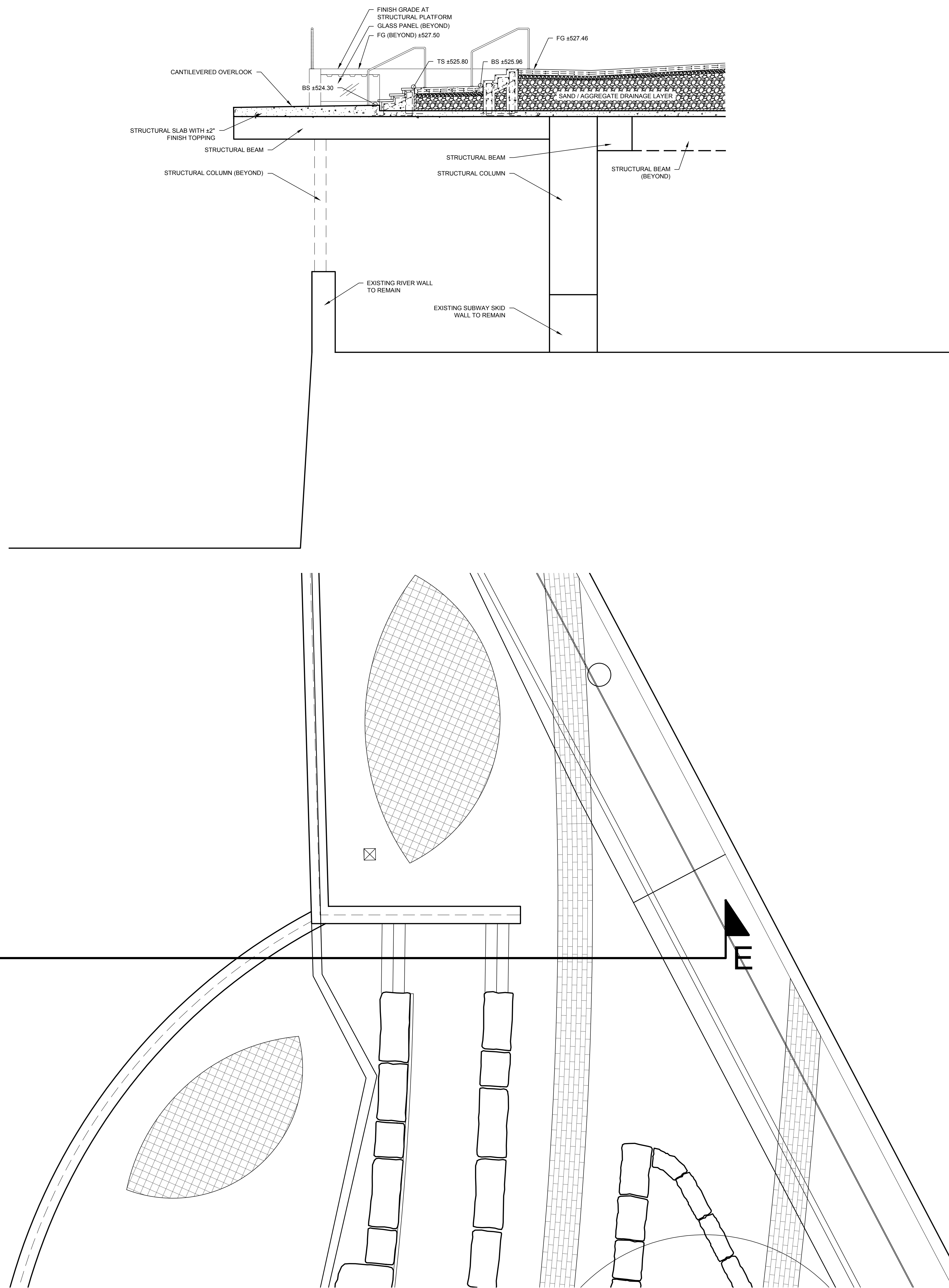
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

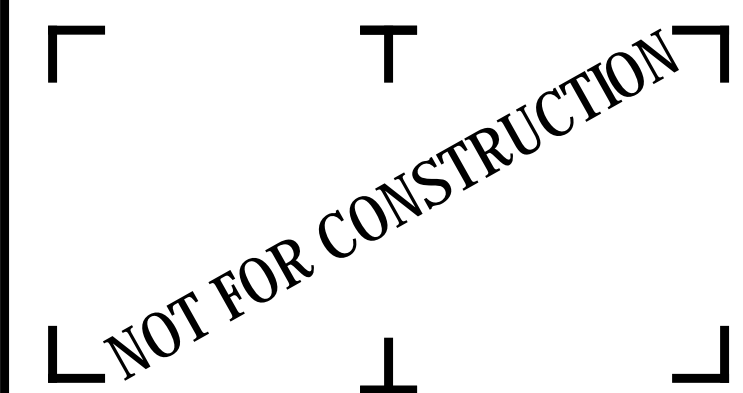
**NORTH TERRACE  
SECTION E.E**

DRAWING NUMBER:

**L-904**

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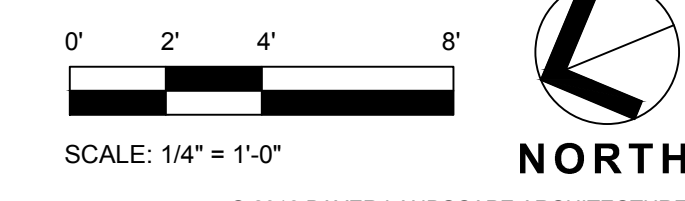
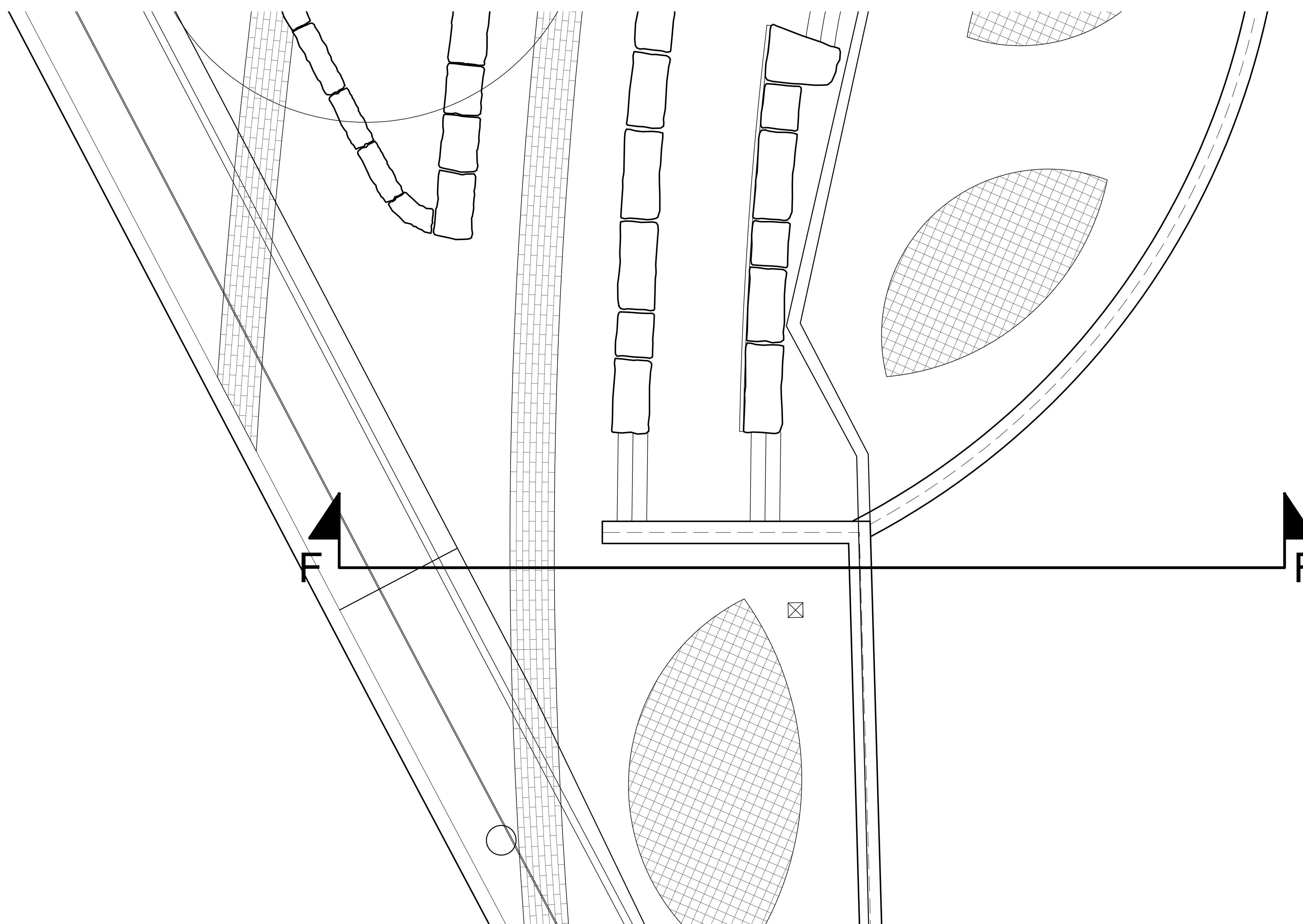
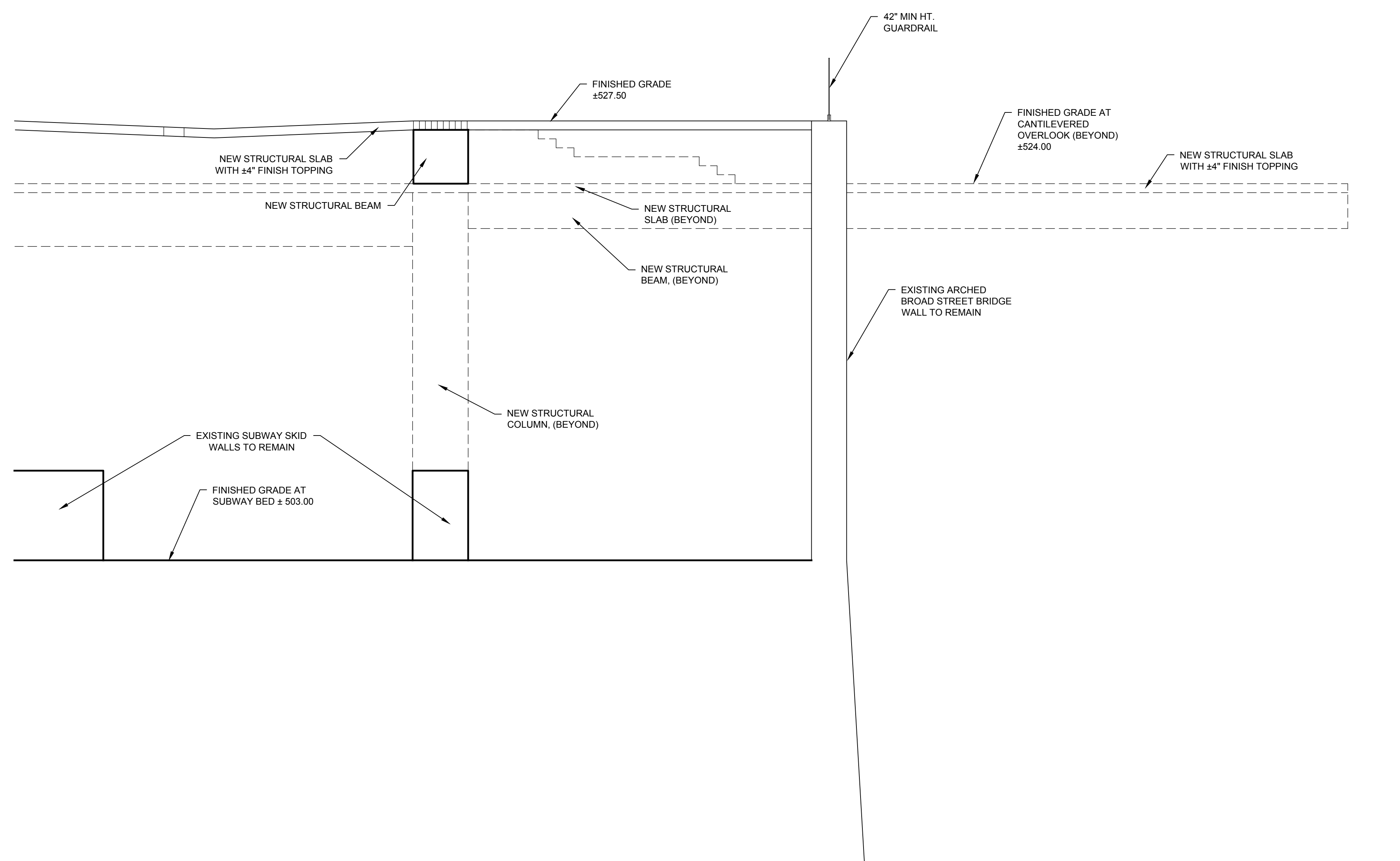
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NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

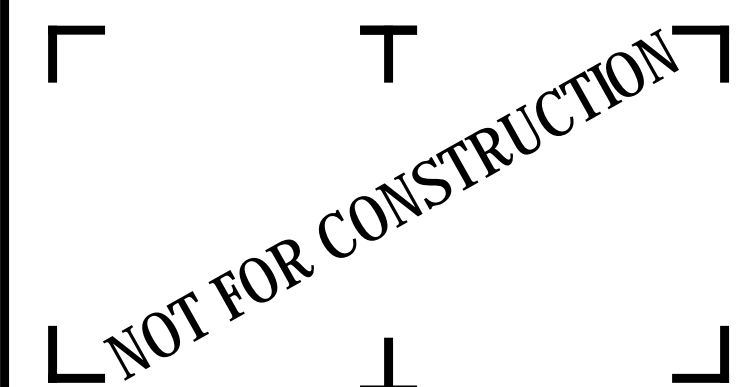
**NORTH TERRACE  
SECTION F.F**

DRAWING NUMBER:

**L-905**







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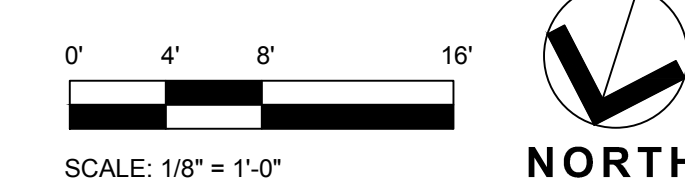
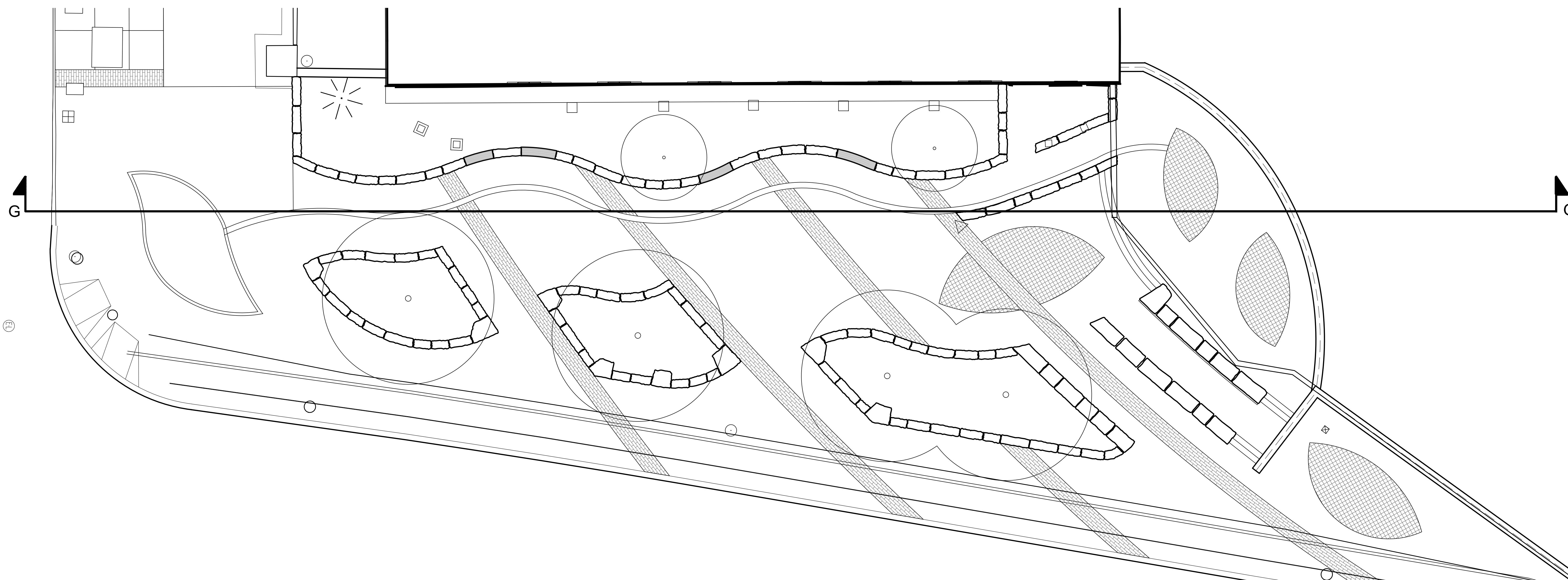
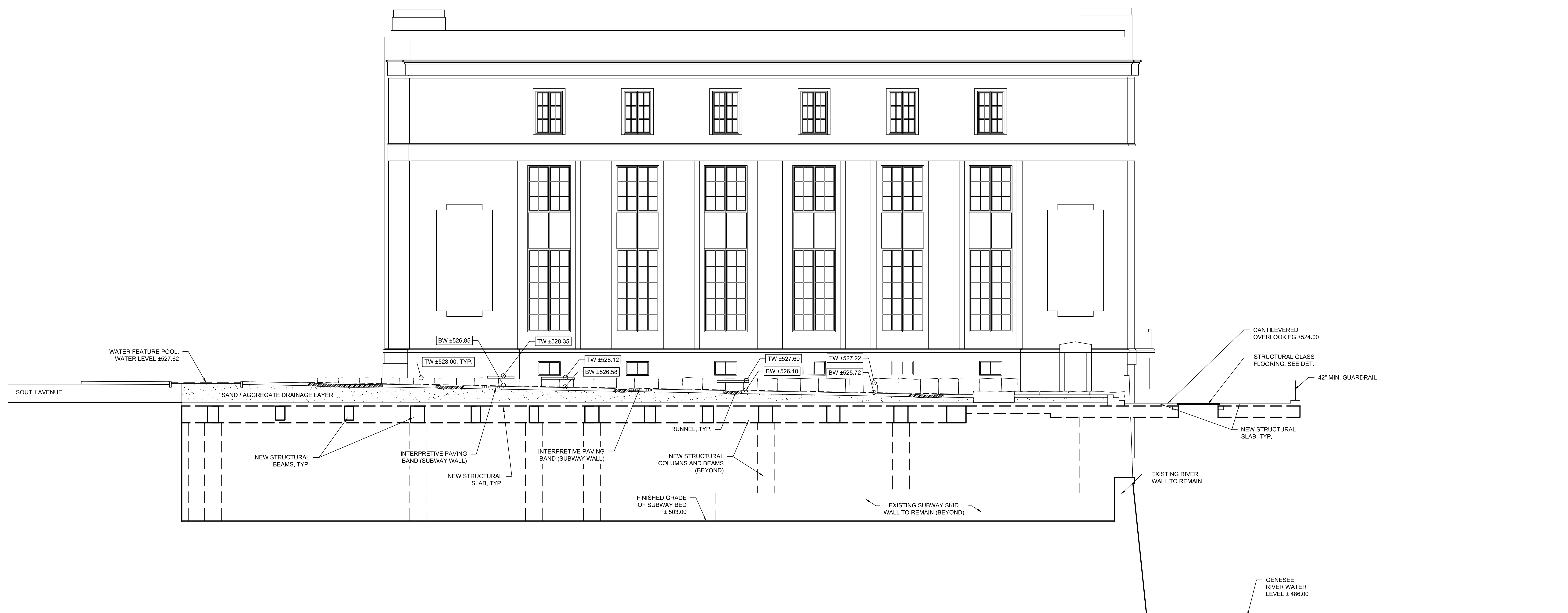
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NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: JJR / DPZ		
REVIEWED BY: MHB		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE SECTION G.G**

DRAWING NUMBER:

**L-906**





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NO.	DATE	DESCRIPTION

PROJECT NUMBER: 2170391

DRAWN BY: MML

REVIEWED BY: JMG

ISSUED FOR: 35% PRELIMINARY DESIGN

DATE: JULY 2018

DRAWING NAME:

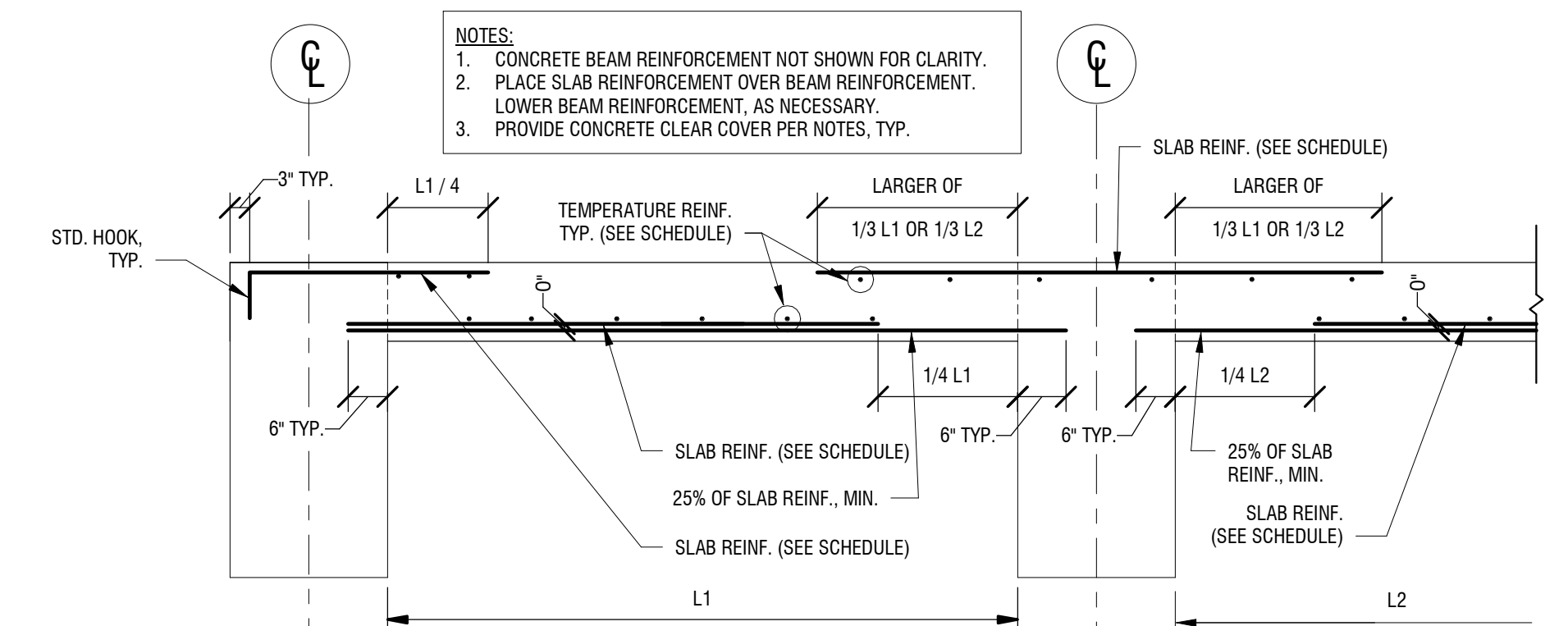
**SCHEDULES & TYPICAL DETAILS**

DRAWING NUMBER:

**S-002**

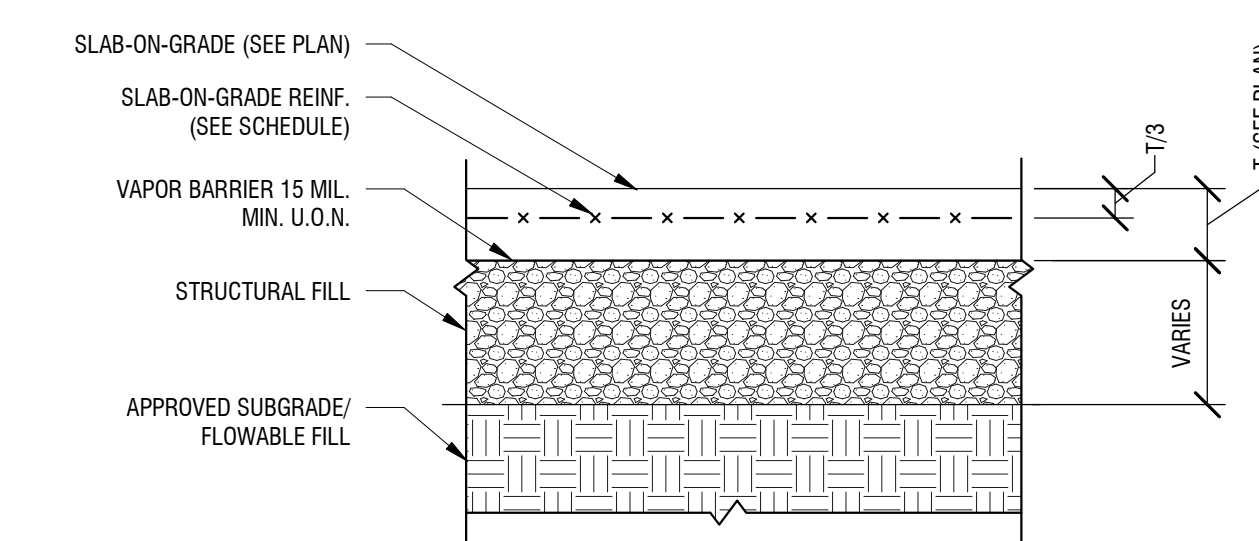
FOUNDATION WALL SCHEDULE					
MARK	TYPE	THICKNESS	WALL REINFORCEMENT		COMMENTS
			HORIZONTAL	VERTICAL	
C8	CONCRETE	8"	#5 @ 12" O.C.	#5 @ 12" O.C.	

STRUCTURAL SLAB SCHEDULE					
MARK	TYPE	SLAB THICKNESS	SLAB REINFORCEMENT		COMMENTS
			TEMP./SHRINK STEEL	TEMP./SHRINK STEEL	
S6-T2	ONE WAY SLAB	6"	#4 @ 11" O.C.	#4 @ 12" O.C.	TEMP./SHRINK STEEL: #4 @ 12" O.C., 2" TOPPING
S8A	ONE WAY SLAB	8"	#5 @ 10" O.C.	#4 @ 12" O.C.	TEMP./SHRINK STEEL: #4 @ 12" O.C.
S8B	ONE WAY SLAB	8"	#5 @ 7" O.C.	#4 @ 12" O.C.	TEMP./SHRINK STEEL: #4 @ 12" O.C.
S12	ONE WAY SLAB	11"	#5 @ 10" O.C.	#4 @ 12" O.C.	TEMP./SHRINK STEEL: #4 @ 12" O.C.
S12A	ONE WAY SLAB	11"	#5 @ 7" O.C. (TAB)	#4 @ 12" O.C.	TEMP./SHRINK STEEL: #4 @ 12" O.C.
S14	ONE WAY SLAB	11"	#5 @ 9" O.C.	#4 @ 12" O.C.	TEMP./SHRINK STEEL: #4 @ 12" O.C.

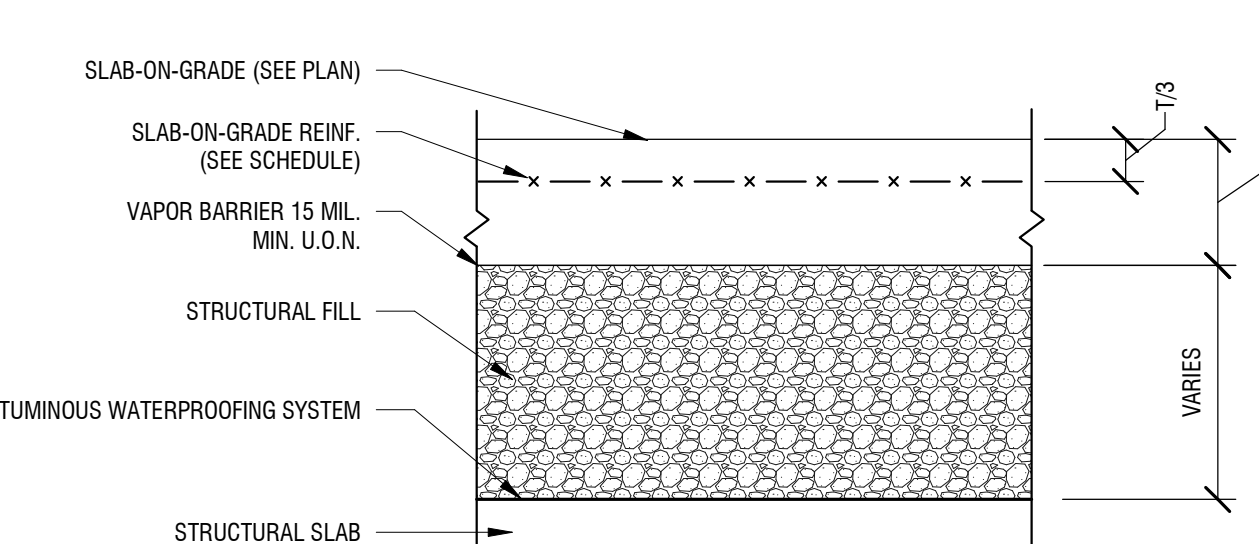


**TYPICAL ONE WAY SLAB DETAIL**  
NOT TO SCALE

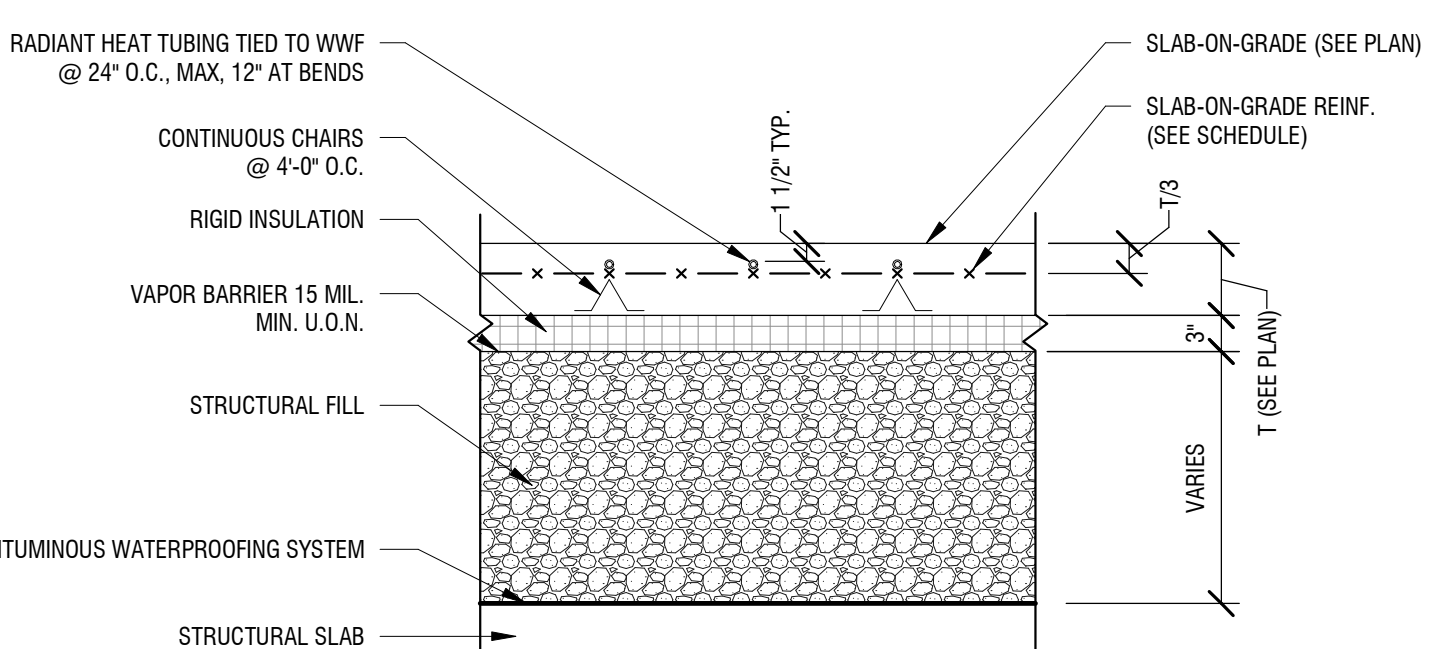
SLAB-ON-GRADE SCHEDULE					
MARK	TYPE	SLAB THICKNESS	SLAB REINFORCEMENT		COMMENTS
			TEMP./SHRINK STEEL	TEMP./SHRINK STEEL	
S.D.G.5	SLAB-ON-GRADE	5"	4x4-WBxWB WWR		
S.D.G.6.SR	SLAB-ON-GRADE	6 1/2"	4x4-WBxWB WWR		RADIANT HEATED SLAB, COORD. W/ MECH.
S.D.G.8	SLAB-ON-GRADE	8"	4x4-WBxWB WWR		
S.D.G.8R	SLAB-ON-GRADE	8"	4x4-WBxWB WWR		RADIANT HEATED SLAB, COORD. W/ MECH.



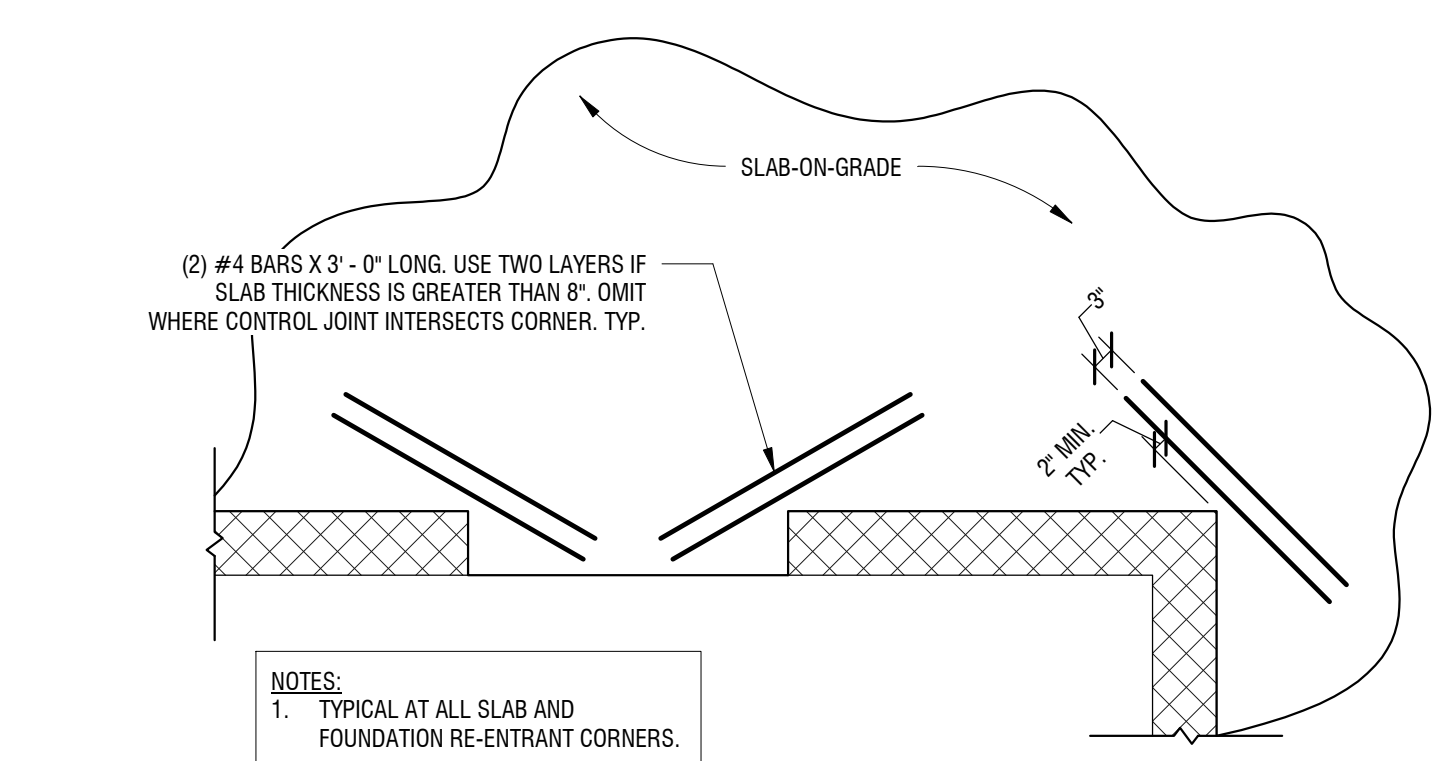
**TYPICAL SLAB-ON-GRADE**  
NOT TO SCALE



**TYPICAL SLAB-ON-GRADE OVER STRUCTURAL SLAB**  
NOT TO SCALE

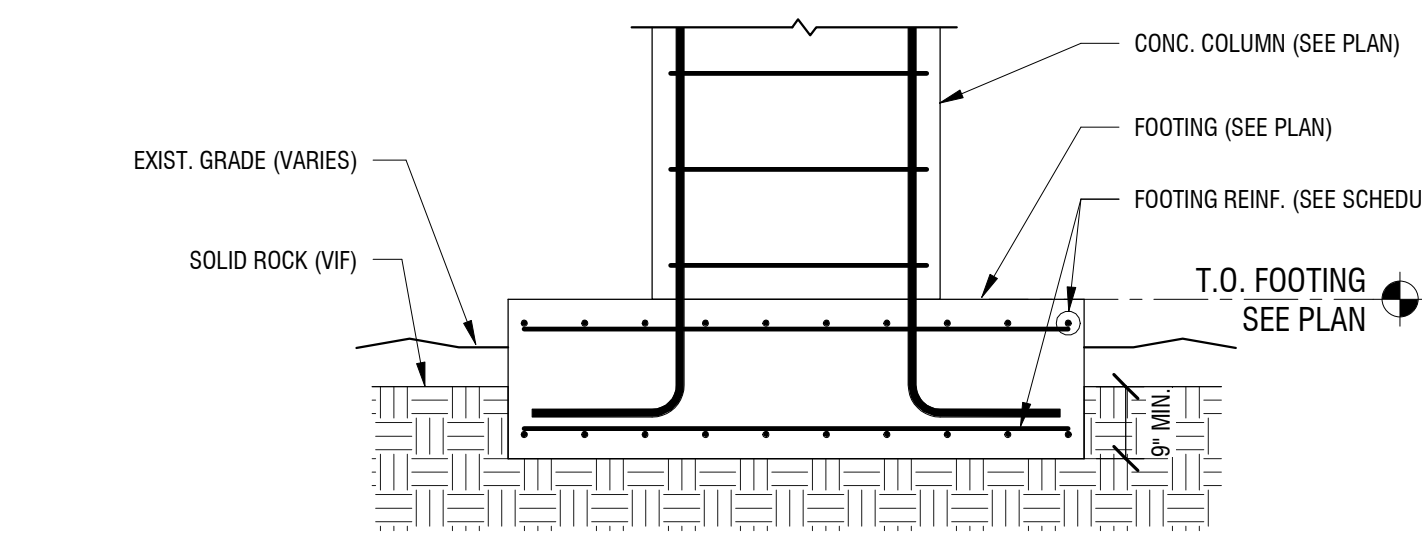


**TYPICAL RADIANT SLAB OVER STRUCTURAL SLAB**  
NOT TO SCALE

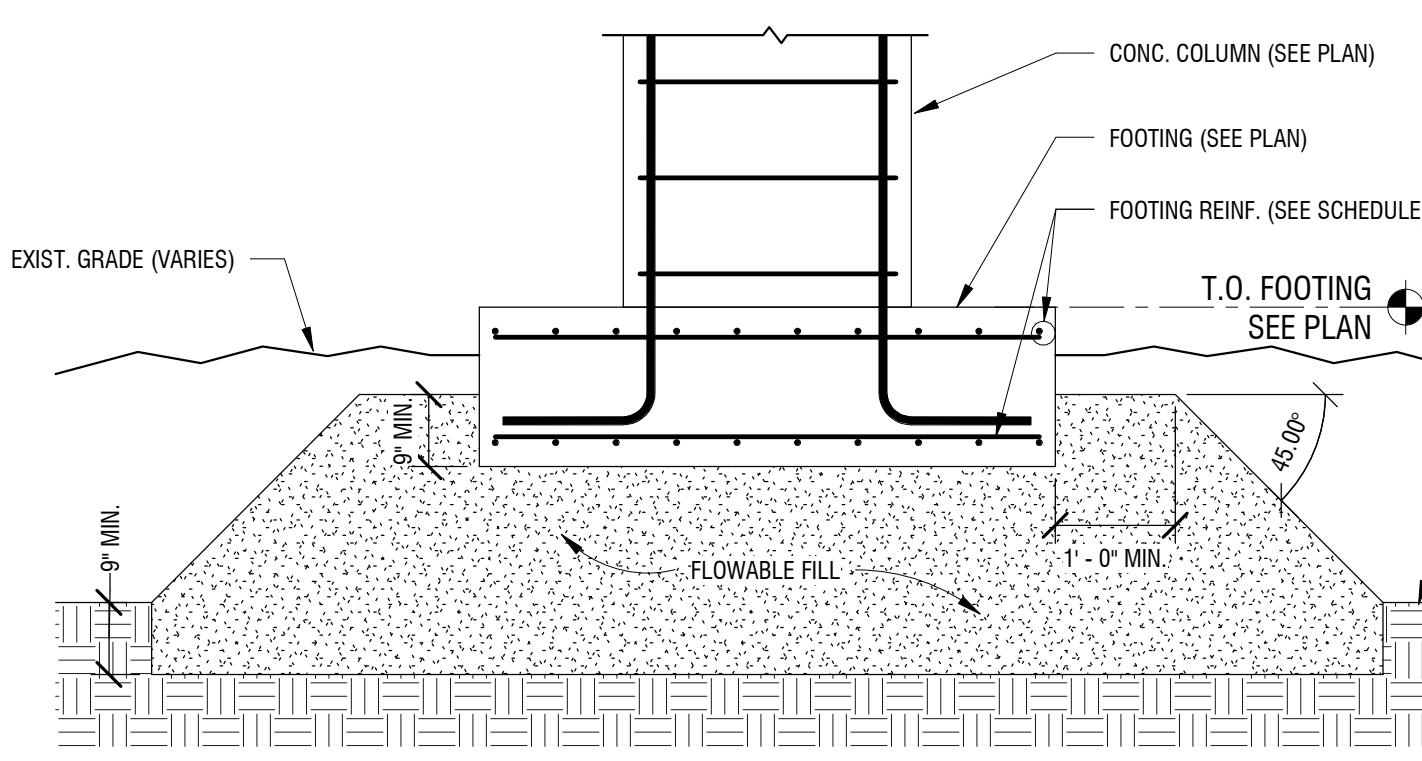


**TYPICAL SLAB-ON-GRADE RE-ENTRANT CORNER**  
NOT TO SCALE

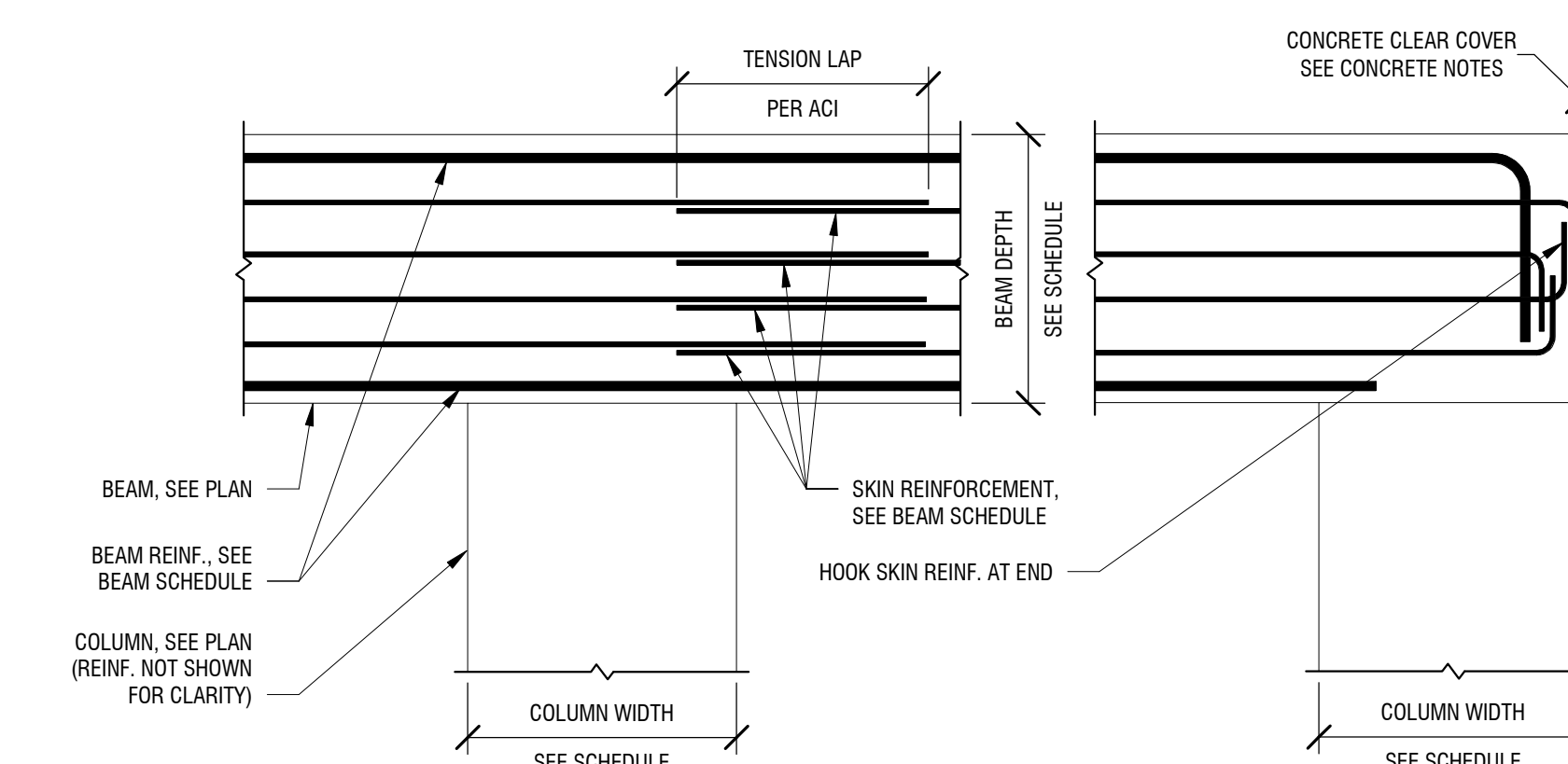
FOOTING SCHEDULE					
MARK	FOOTING DIMENSIONS		TOP & BOTTOM REINFORCEMENT		
	LENGTH	WIDTH	THICKNESS	LONGITUDINAL REINF.	TRANSVERSE REINF.
F4	4'-0"	4'-0"	1'-6"	(3)-#5 BARS	(3)-#5 BARS
F5	5'-0"	5'-0"	1'-6"	(5)-#5 BARS	(5)-#5 BARS
F6	6'-0"	6'-0"	2'-0"	(7)-#6 BARS	(7)-#6 BARS
F7	7'-0"	7'-0"	2'-6"	(8)-#7 BARS	(8)-#7 BARS
F11.6	6'-0"	11'-0"	2'-0"	(7)-#6 BARS	(12)-#6 BARS



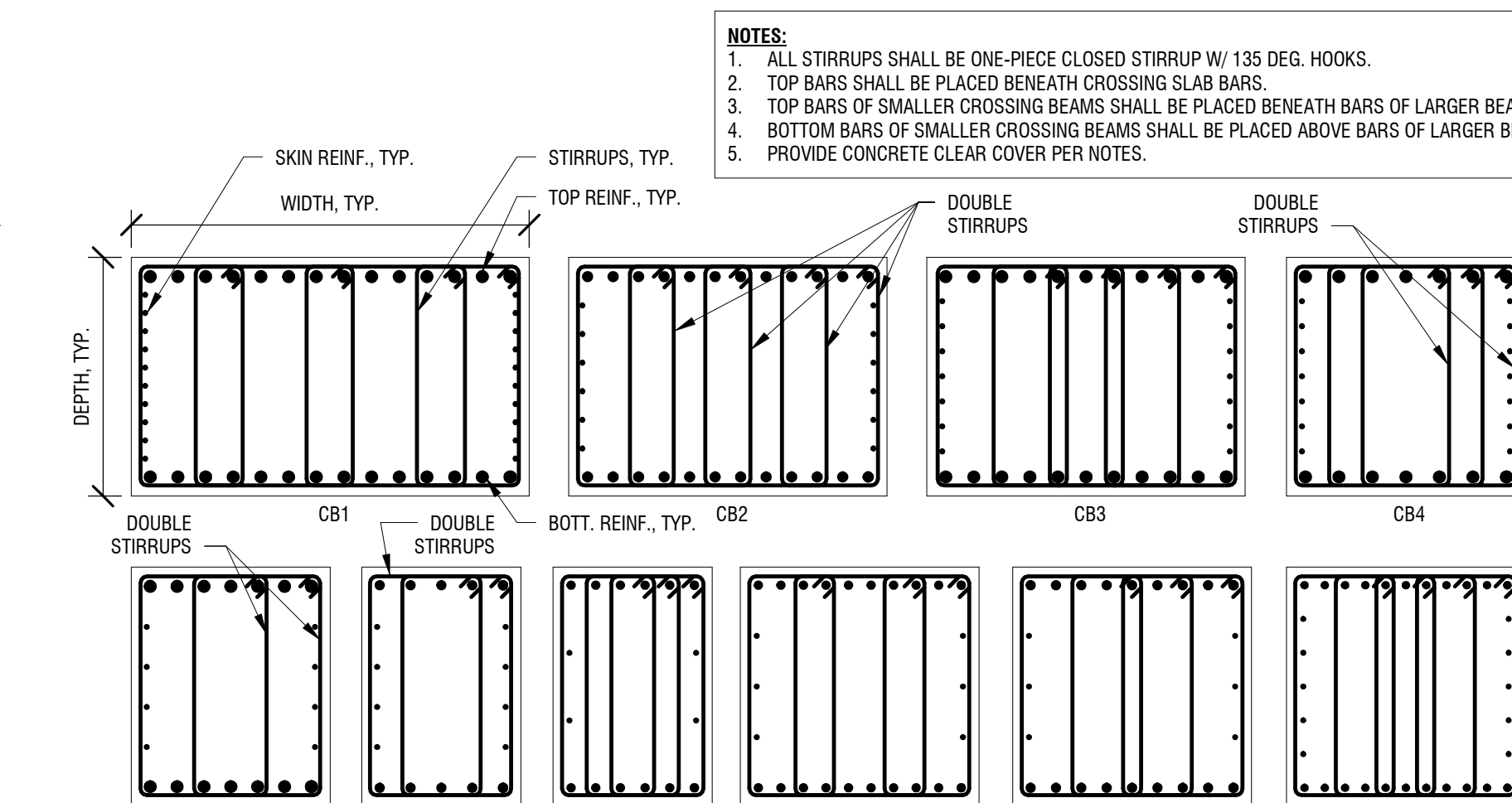
**TYP SPREAD FOOTING DETAIL**  
NOT TO SCALE



**TYP SPREAD FOOTING ON FILL**  
NOT TO SCALE

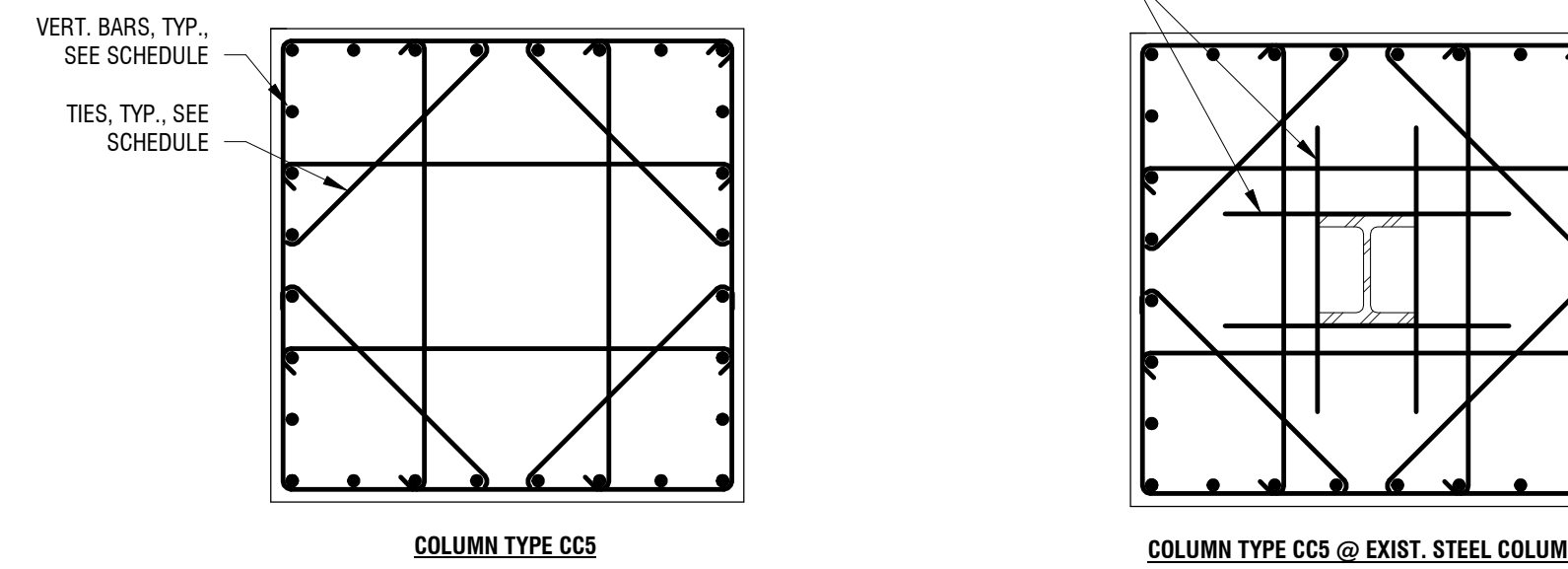


**TYP. SKIN REINF. DETAIL**  
NOT TO SCALE

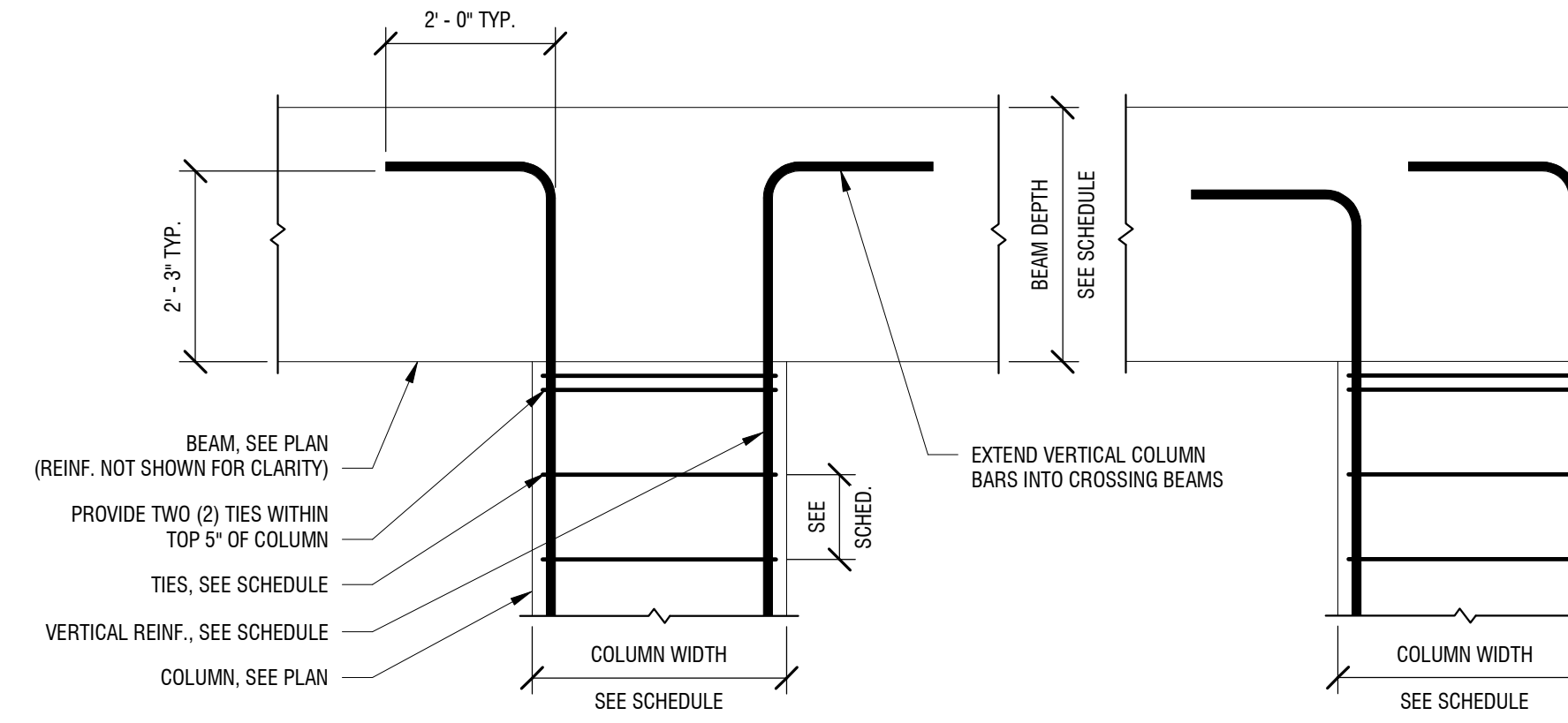


CONCRETE COLUMN SCHEDULE					
MARK	COLUMN DIMENSIONS		COLUMN REINFORCEMENT		COMMENTS
	DEPTH	WIDTH	VERTICAL	TIES	
CC2	2'-0"	2'-0"	(8)-#10 BARS	#4 @ 12" O.C.	
CC2*	2'-0"	2'-0"	(8)-#10 BARS	#4 @ 12" O.C.	TEMPORARY COLUMN - SEE NOTE
CC3	3'-0"	3'-0"	(20)-#11 BARS	#4 @ 12" O.C.	
CC4	4'-0"	2'-0"	(12)-#10 BARS	#4 @ 12" O.C.	
CC5	5'-0"	5'-0"	(28)-#10 BARS	#4 @ 12" O.C.	

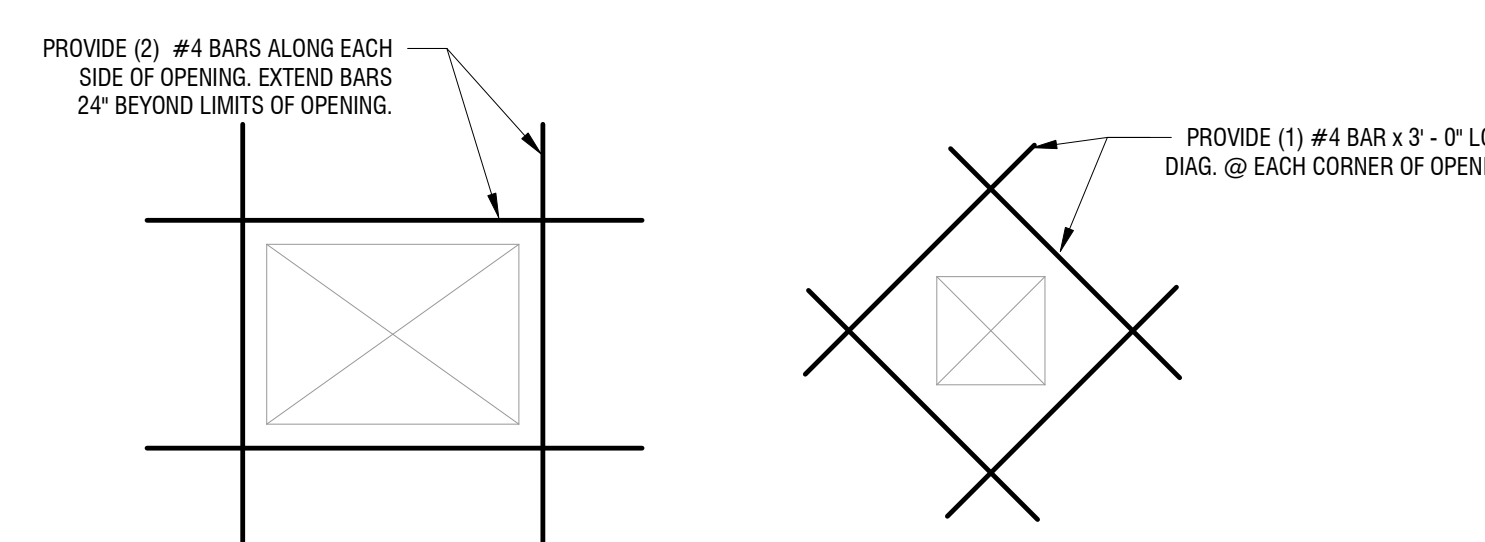
NOTES:  
1. TEMPORARY COLUMNS ARE DESIGNED TO BE REMOVED AT LATER DATE ONLY ON CONDITION THE BROAD STREET BRIDGE IS REMOVED/DEMOLISHED



**COLUMN SECTIONS**  
NOT TO SCALE



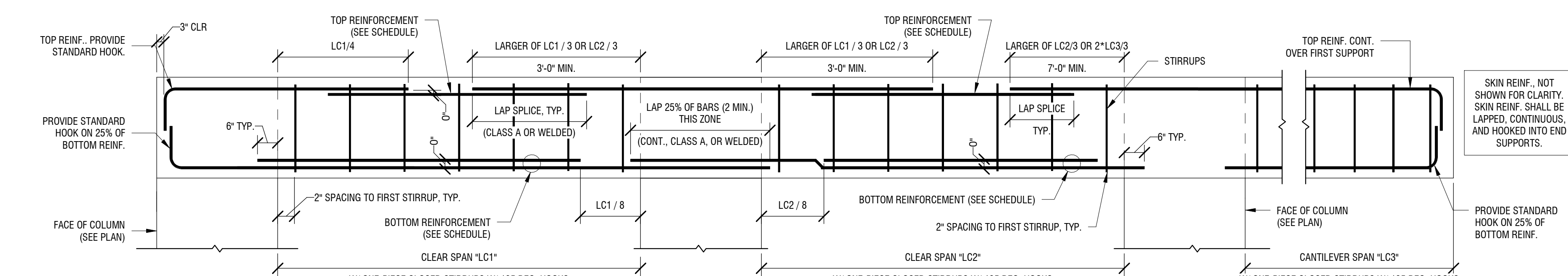
**TYP. T.O. COLUMN DETAIL**  
NOT TO SCALE



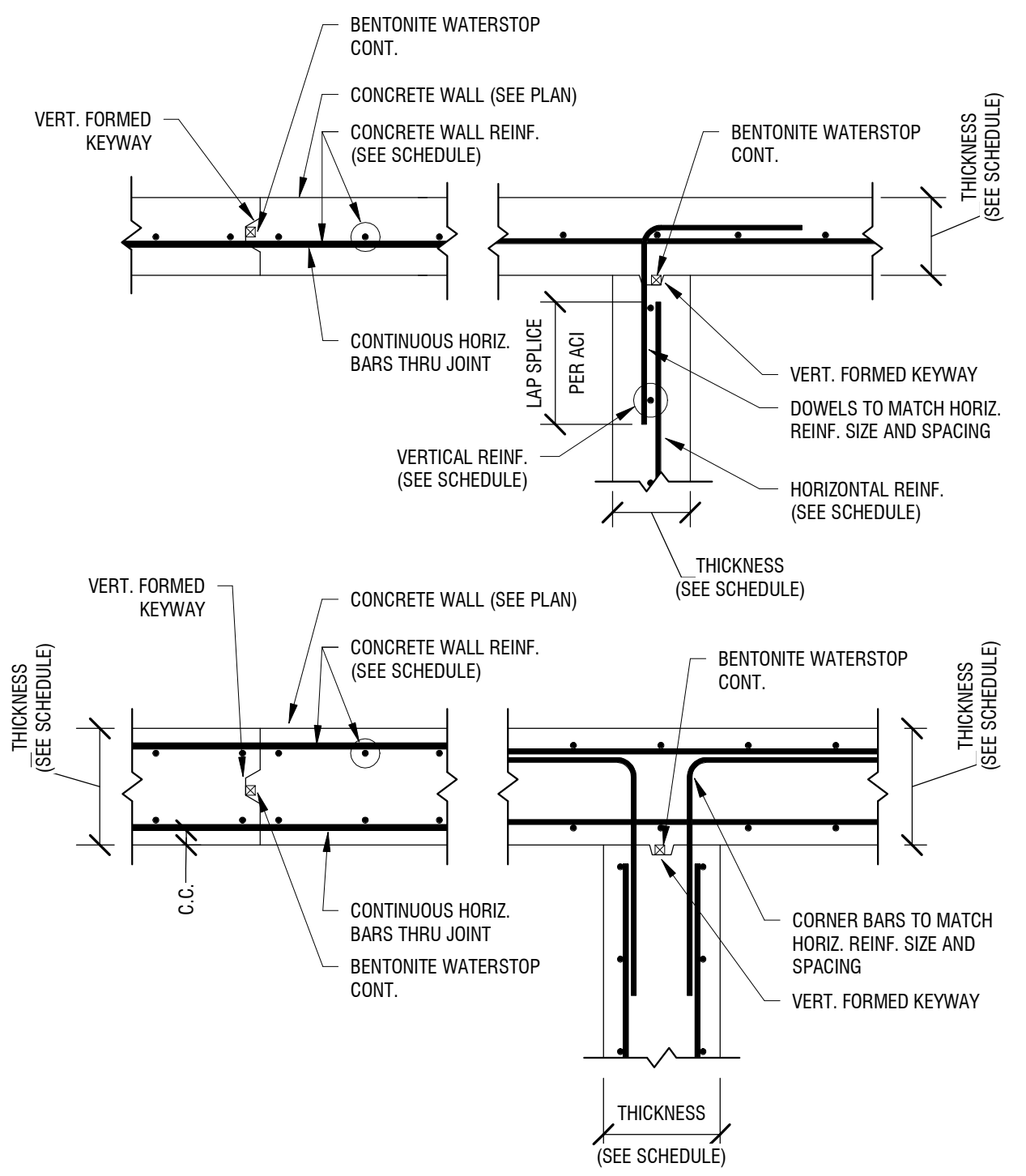
SLAB OPENINGS 18" x 18" OR LESS  
SLAB OPENINGS 10" x 10" OR LESS  
NOTE:  
• ALL OPENINGS SHALL BE FORMED BY CONSTRUCTION OF A SLEEVE OR "BOX-OUT" SET DIRECTLY ON THE METAL DECK UNDER NO CIRCUMSTANCES SHALL THE METAL DECK BE CUT UNTIL THE CONCRETE HAS BEEN IN PLACE FOR AT LEAST 3 DAYS. THESE REQUIREMENTS ARE TYPICAL FOR ALL OPENINGS, REGARDLESS OF SIZE.  
• LARGER OPENINGS SHALL BE REINFORCED WITH THE ANGLE FRAME AS INDICATED ON PLAN AND/OR IN DETAILS.

**TYPICAL STRUCTURAL SLAB OPENING REINF.**  
NOT TO SCALE

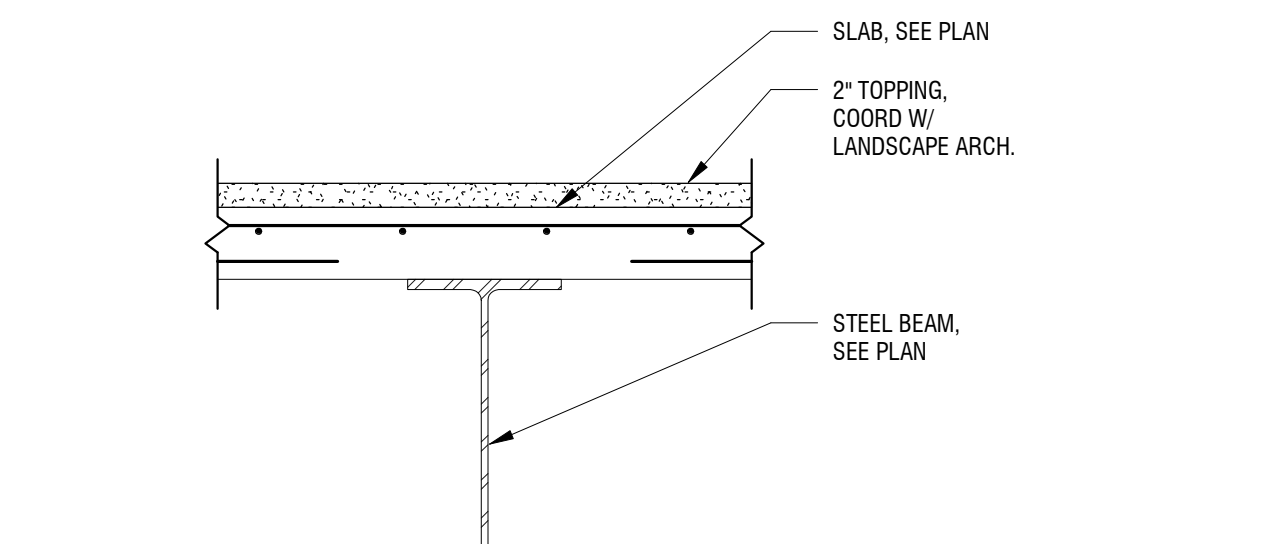
CONCRETE BEAM SCHEDULE						
MARK	DIMENSIONS		GRADE BEAM REINFORCEMENT			COMMENTS
	DEPTH	WIDTH	BOTTOM REINF.	TOP REINF.	STIRRUPS	
CB1	3'-0"	5'-0"	(14)-#14 BARS	(14)-#14 BARS	(10)-#5 BARS E.F.	(4)-#5 @ 12" O.C. (8 LEGS)
CB2	3'-0"	4'-0"	(12)-#11 BARS	(12)-#11 BARS	(6)-#5 BARS E.F.	(6)-#5 @ 8" O.C. (8 LEGS)
CB3	3'-0"	4'-0"	(11)-#14 BARS	(11)-#14 BARS	(7)-#5 BARS E.F.	(4)-#5 @ 8" O.C. (8 LEGS)
CB4	3'-0"	3'-0"	(7)-#14 BARS	(7)-#14 BARS	(7)-#5 BARS E.F.	(5)-#5 @ 8" O.C. (10 LEGS)
CB5	3'-0"	2'-0"	(7)-#14 BARS	(7)-#14 BARS	(4)-#5 BARS E.F.	(4)-#5 @ 12" O.C. (8 LEGS)
CB6	3'-0"	2'-0"	(5)-#11 BARS	(5)-#11 BARS	(4)-#5 BARS E.F.	(3)-#5 @ 12" O.C. (8 LEGS)
CB7	3'-0"	2'-0"	(6)-#9 BARS	(6)-#9 BARS	(2)-#5 BARS E.F.	(3)-#5 @ 10" O.C. (8 LEGS)
CB8	3'-0"	3'-0"	(10)-#9 BARS	(10)-#9 BARS	(3)-#5 BARS E.F.	(3)-#5 @ 10" O.C. (8 LEGS)
CB9	3'-0"	3'-0"	(9)-#10 BARS	(9)-#10 BARS	(3)-#5 BARS E.F.	(3)-#5 @ 8" O.C. (8 LEGS)
CB10	3'-0"	3'-0"	(11)-#8 BARS	(11)-#8 BARS	(5)-#5 BARS E.F.	(4)-#5 @ 8" O.C. (8 LEGS)



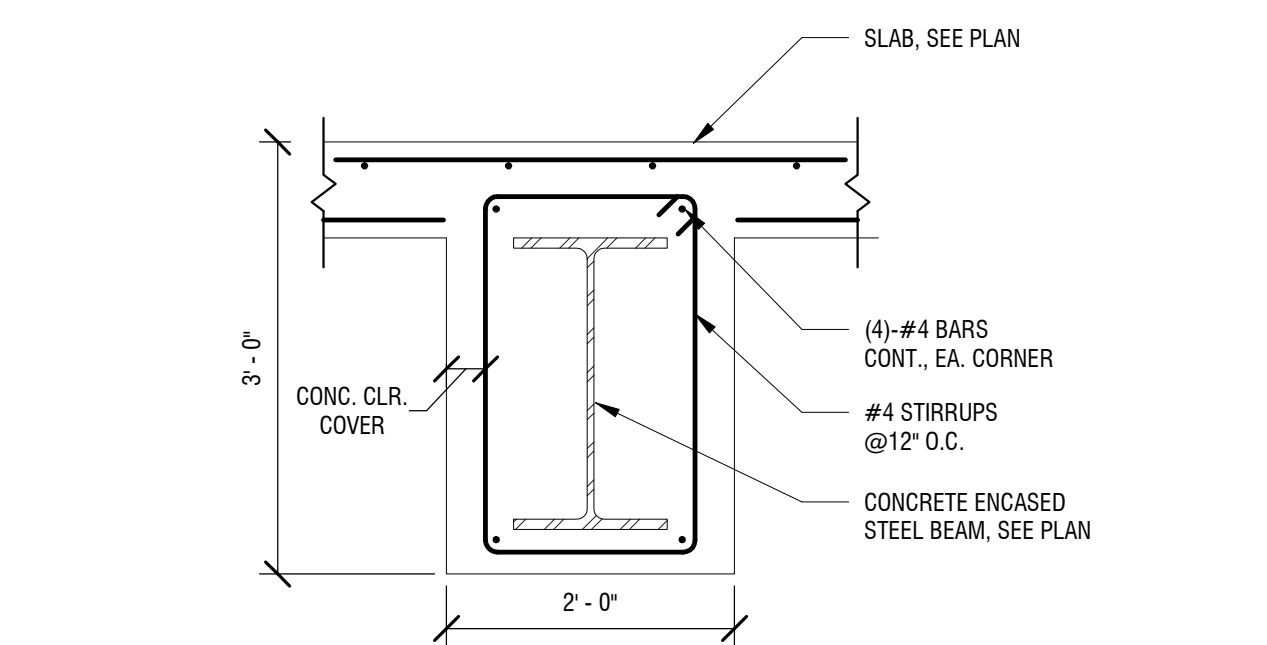
**TYPICAL CONCRETE BEAM DETAIL AND SECTIONS**  
NOT TO SCALE



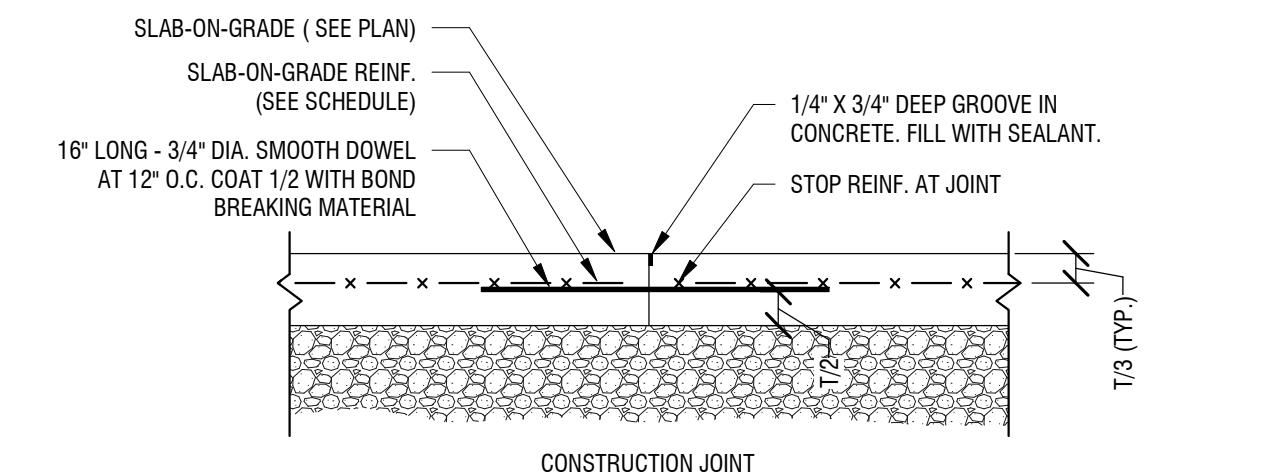
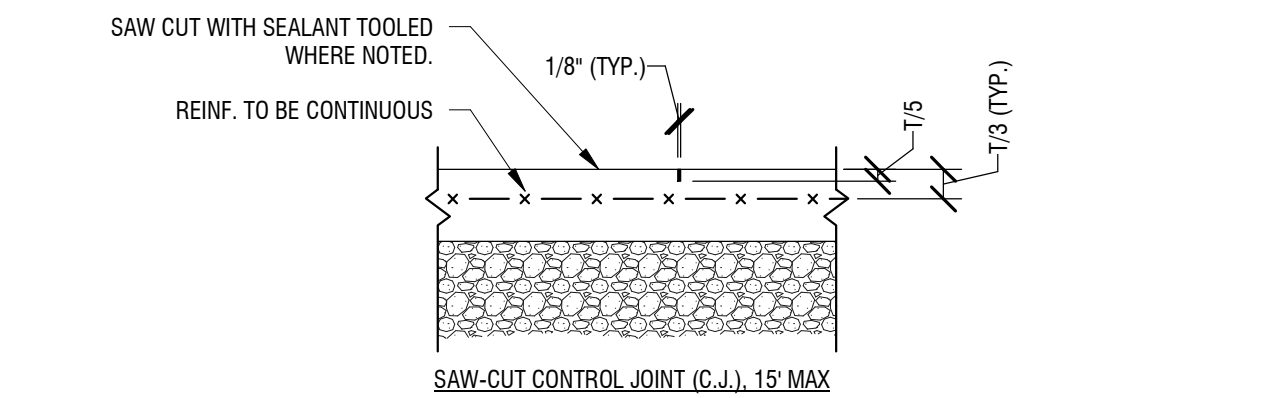
**TYPICAL CONC. WALL CONSTRUCTION JOINTS**  
NOT TO SCALE



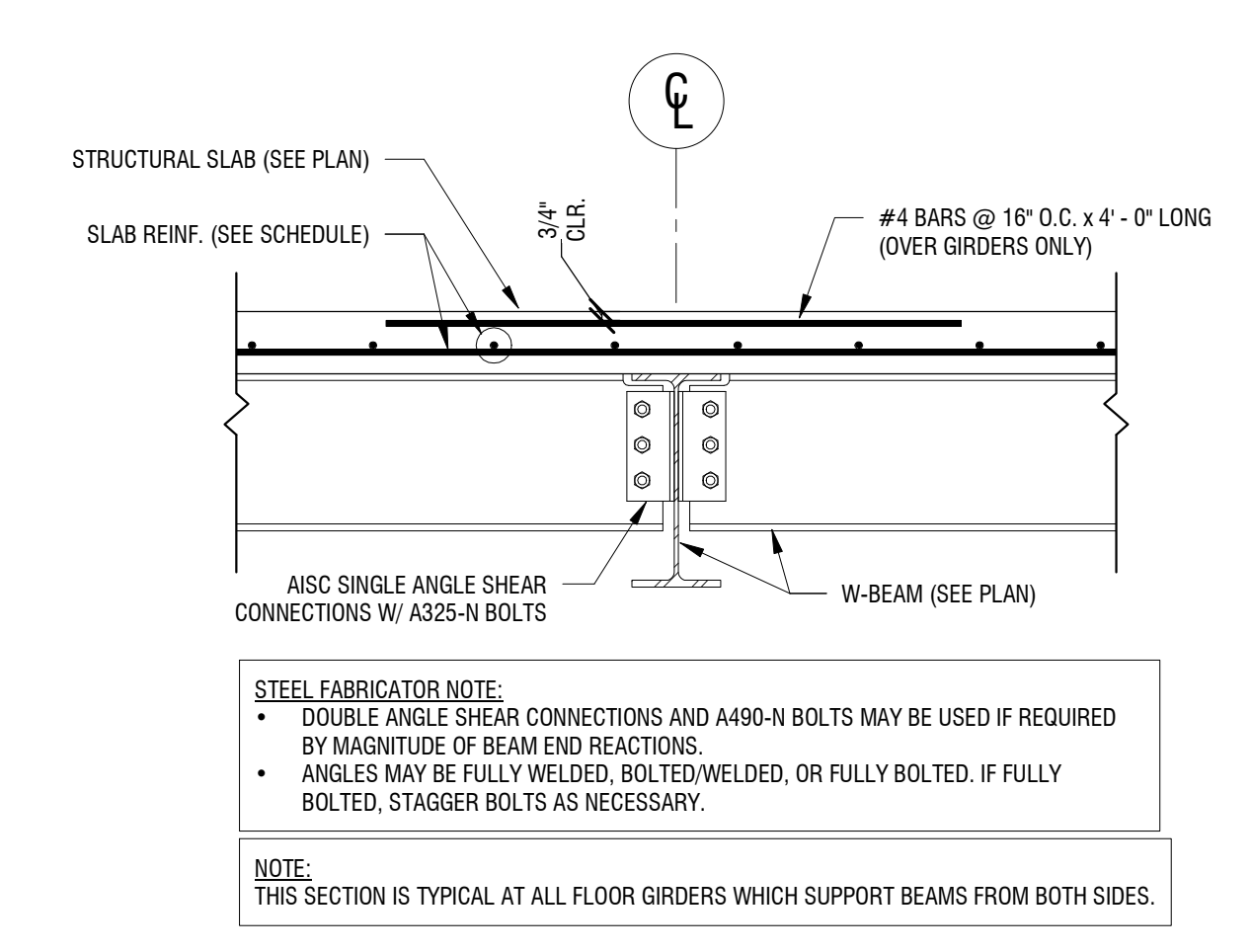
**SLAB OVER STEEL BEAM**  
NOT TO SCALE



**CONCRETE ENCASED STEEL BEAM**  
NOT TO SCALE



**TYPICAL SLAB-ON-GRADE JOINT**  
NOT TO SCALE



**TYPICAL BEAM TO GIRDER CONNECTION**  
NOT TO SCALE

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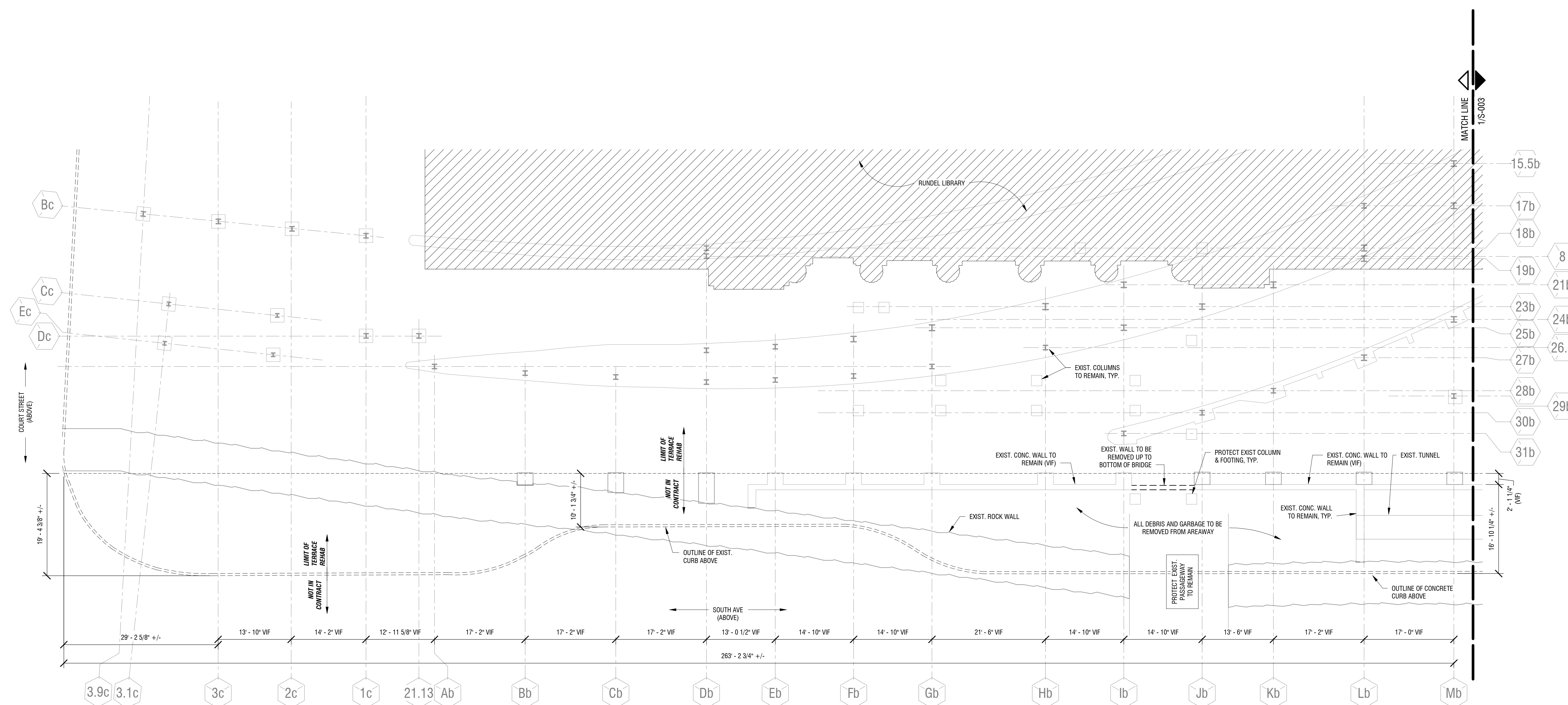
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2170391
DRAWN BY:		MML
REVIEWED BY:		JMG
ISSUED FOR:		35% PRELIMINARY DESIGN
DATE:		JULY 2018
DRAWING NAME:		

**EAST SIDEWALK & AREAWAY FOUNDATION DEMOLITION PLAN**

DRAWING NUMBER:

**S-004**

DEMOLITION LEGEND	
---	TO BE DEMOLISHED
—	EXISTING TO REMAIN



**1 EAST SIDEWALK & AREAWAY FOUNDATION DEMOLITION PLAN**  
S-004 1" = 10'-0"

- DEMOLITION PLAN NOTES:**
- ALL DIMENSIONS AND FRAMING SIZES ARE ASSUMED BASED ON AVAILABLE EXISTING DRAWINGS AND LASER SCAN. DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED BY CONTRACTOR.
  - COLUMN GRIDLINE NAMES ARE FOR REFERENCE ONLY AND ARE NOT REPRESENTATIVE OF EXISTING DRAWINGS.
  - NOTIFY O.D.R. OF ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS.
  - NO ASBESTOS TESTING HAS BEEN PERFORMED ON EXISTING CONDITIONS.
  - COORDINATE WITH MEP FOR TEMPORARY SUPPORTS AND MEP REMOVALS.

NOT FOR CONSTRUCTION

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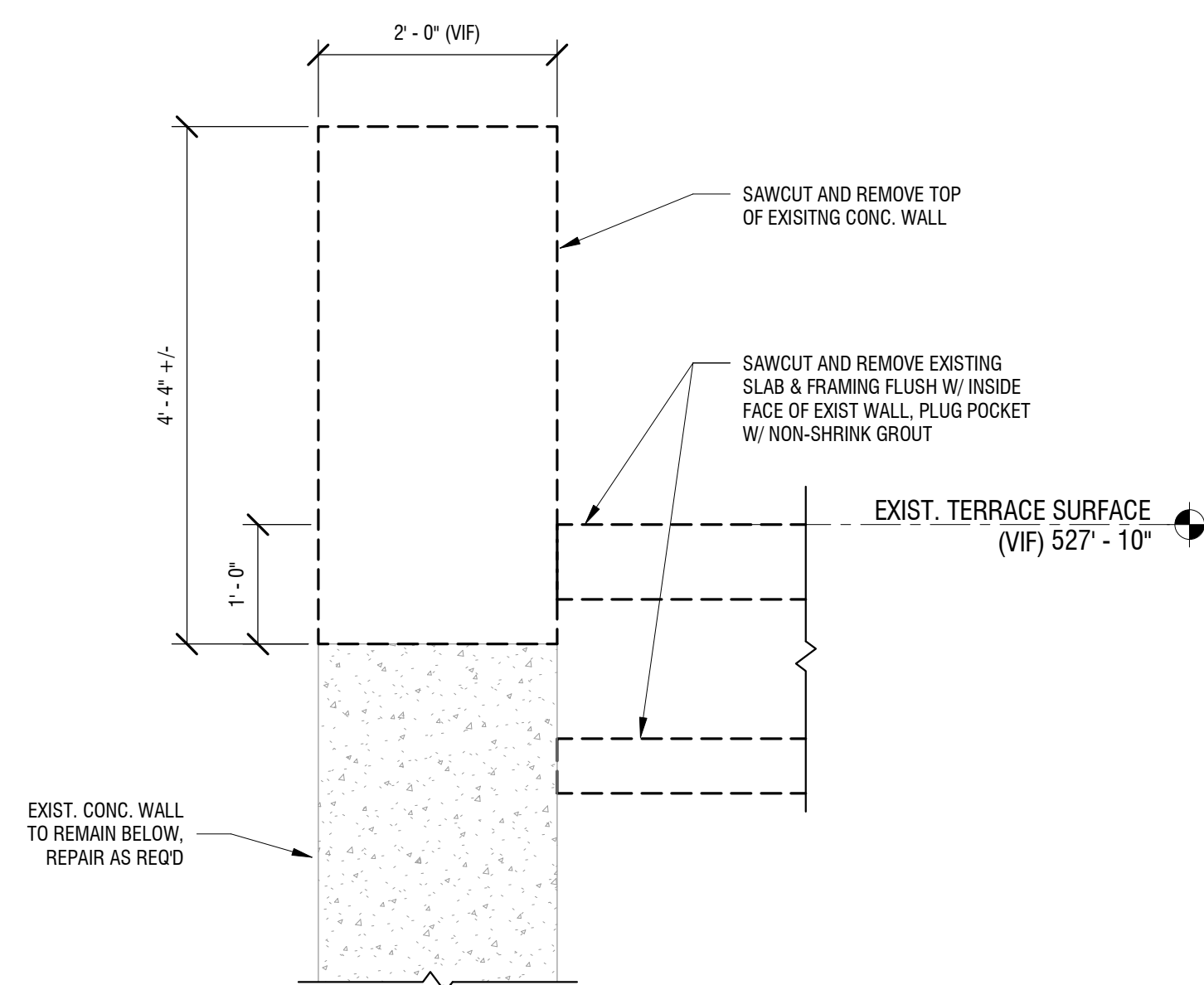
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: MML		
REVIEWED BY: JMG		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE FRAMING DEMOLITION PLAN**

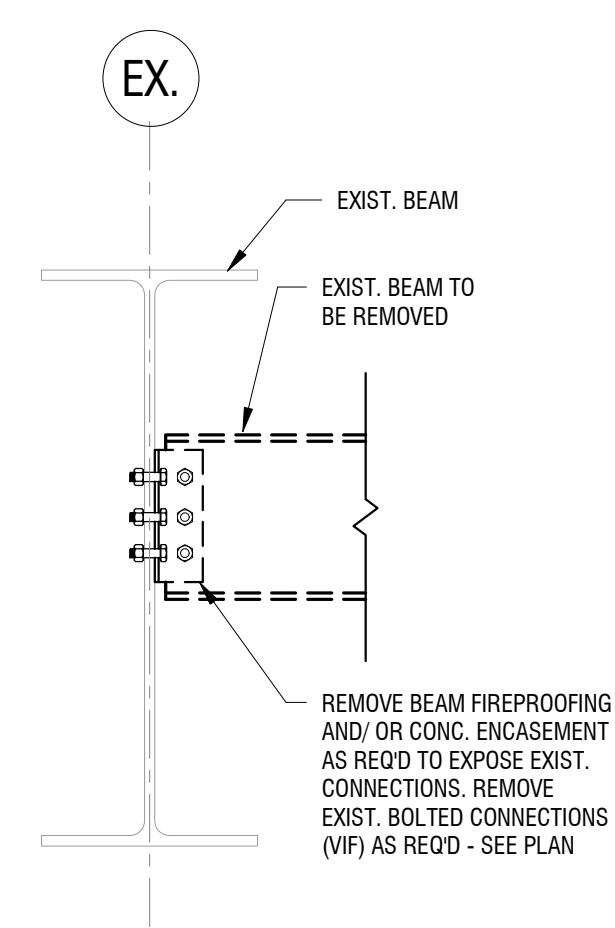
DRAWING NUMBER:

**S-005**

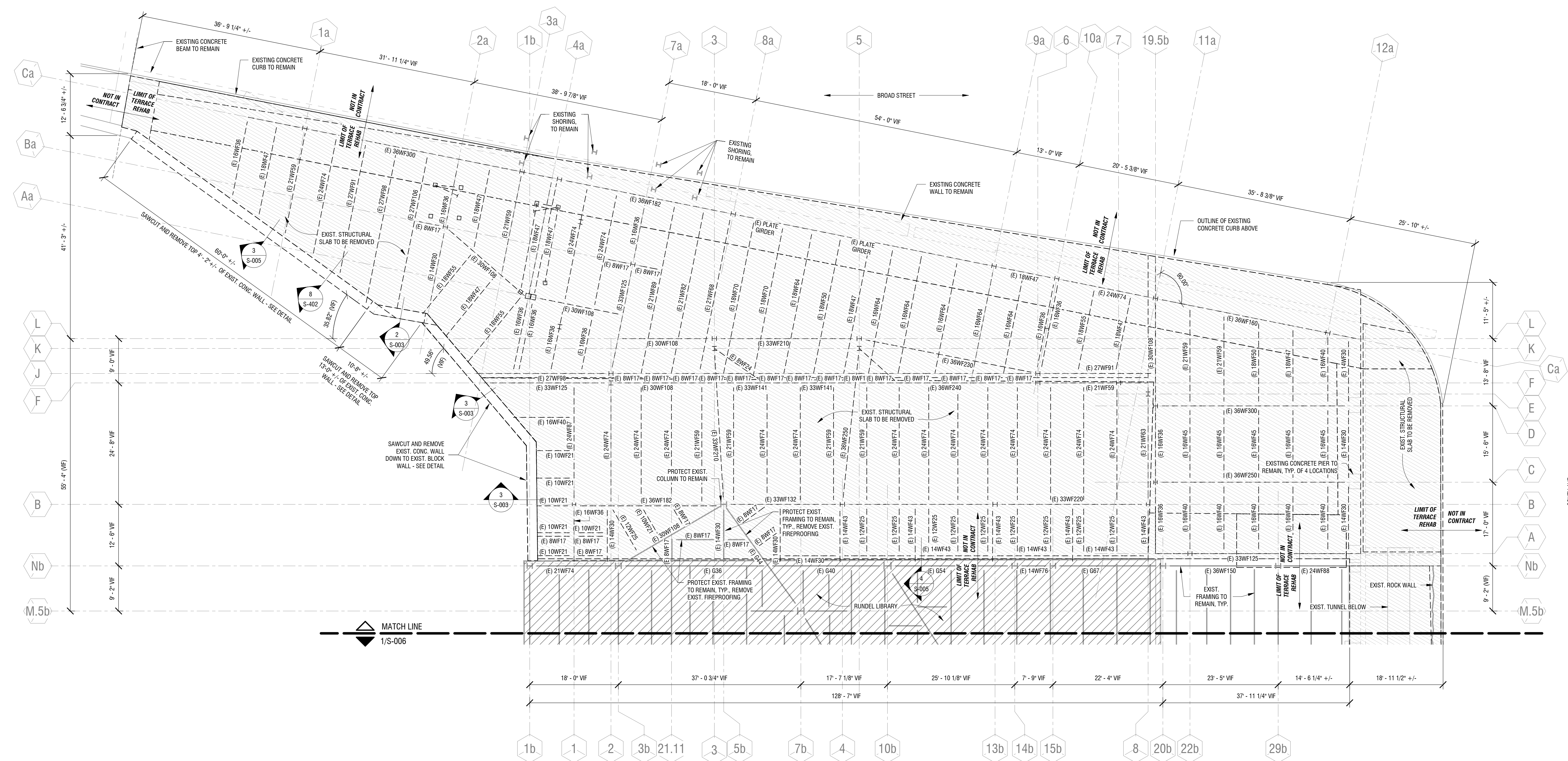
DEMOLITION LEGEND	
---	TO BE DEMOLISHED
---	EXISTING TO REMAIN



**3 DEMOLITION SECTION**  
S-005  
3/4" = 1'-0"



**4 TYPICAL FRAMING DEMOLITION DETAIL**  
S-005  
NOT TO SCALE



**1 NORTH TERRACE DEMOLITION FRAMING PLAN - WEST**  
S-005  
1" = 10'-0"

- DEMOLITION PLAN NOTES:**
- ALL DIMENSIONS AND FRAMING SIZES ARE ASSUMED BASED ON AVAILABLE EXISTING DRAWINGS AND LASER SCAN. DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED BY CONTRACTOR.
  - COLUMN GRIDLINE NAMES ARE FOR REFERENCE ONLY AND ARE NOT REPRESENTATIVE OF EXISTING DRAWINGS.
  - NOTIFY E.O.R. OF ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS.
  - NO ASBESTOS TESTING HAS BEEN PERFORMED ON EXISTING CONDITIONS.
  - COORDINATE WITH MEP FOR TEMPORARY SUPPORTS AND MEP REMOVALS.

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Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: MML		
REVIEWED BY: JMG		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**EAST SIDEWALK  
DEMOLITION FRAMING  
PLAN**

DRAWING NUMBER:

**S-006**

**DEMOLITION LEGEND**

	TO BE DEMOLISHED
	EXISTING TO REMAIN



**1 EASTSIDE SIDEWALK DEMOLITION FRAMING PLAN**  
S-006 1" = 10'-0"

- DEMOLITION PLAN NOTES:**
1. ALL DIMENSIONS AND FRAMING SIZES ARE ASSUMED BASED ON AVAILABLE EXISTING DRAWINGS AND LASER SCAN. DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED BY CONTRACTOR.
  2. COLUMN GRIDLINE NAMES ARE FOR REFERENCE ONLY AND ARE NOT REPRESENTATIVE OF EXISTING DRAWINGS.
  3. NOTIFY E.O.R. OF ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS.
  4. NO ASBESTOS TESTING HAS BEEN PERFORMED ON EXISTING CONDITIONS.
  5. COORDINATE WITH MEP FOR TEMPORARY SUPPORTS AND MEP REMOVALS.

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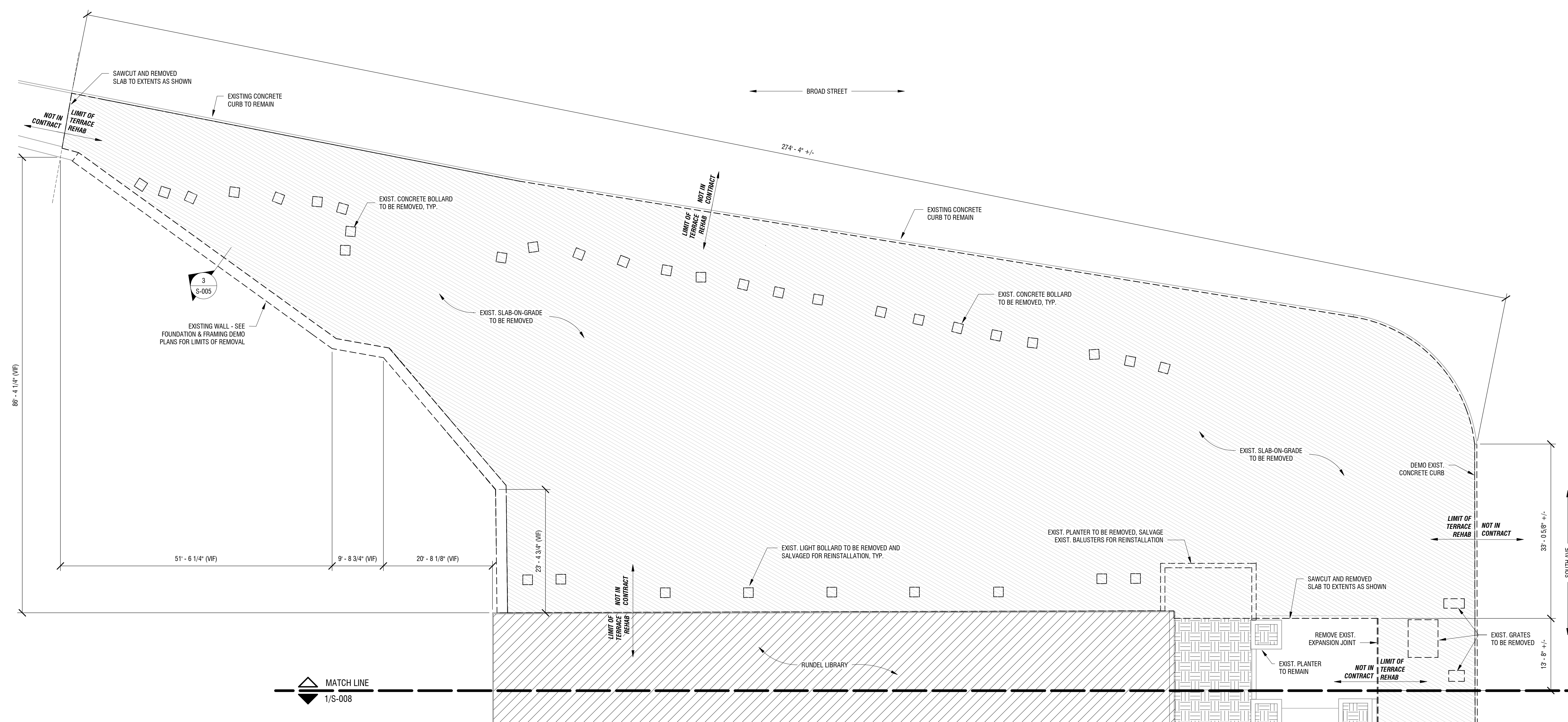
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: MML		
REVIEWED BY: JMG		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE SURFACE DEMOLITION PLAN**

DRAWING NUMBER:

**S-007**

DEMOLITION LEGEND	
---	TO BE DEMOLISHED
—	EXISTING TO REMAIN



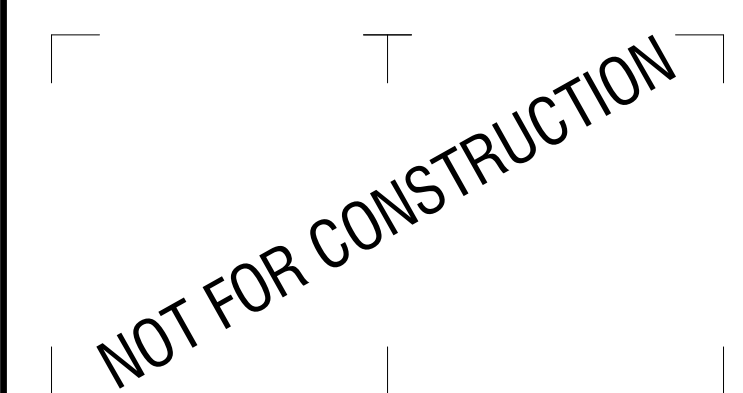
**1 NORTH TERRACE DEMOLITION SURFACE PLAN**

1" = 10'-0"

**DEMOLITION PLAN NOTES:**

1. ALL DIMENSIONS AND FRAMING SIZES ARE ASSUMED BASED ON AVAILABLE EXISTING DRAWINGS AND LASER SCAN. DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED BY CONTRACTOR.
2. COLUMN GRIDLINE NAMES ARE FOR REFERENCE ONLY AND ARE NOT REPRESENTATIVE OF EXISTING DRAWINGS.
3. NOTIFY E.O.R. OF ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS.
4. NO ASBESTOS TESTING HAS BEEN PERFORMED ON EXISTING CONDITIONS.
5. COORDINATE WITH MEP FOR TEMPORARY SUPPORTS AND MEP REMOVALS.





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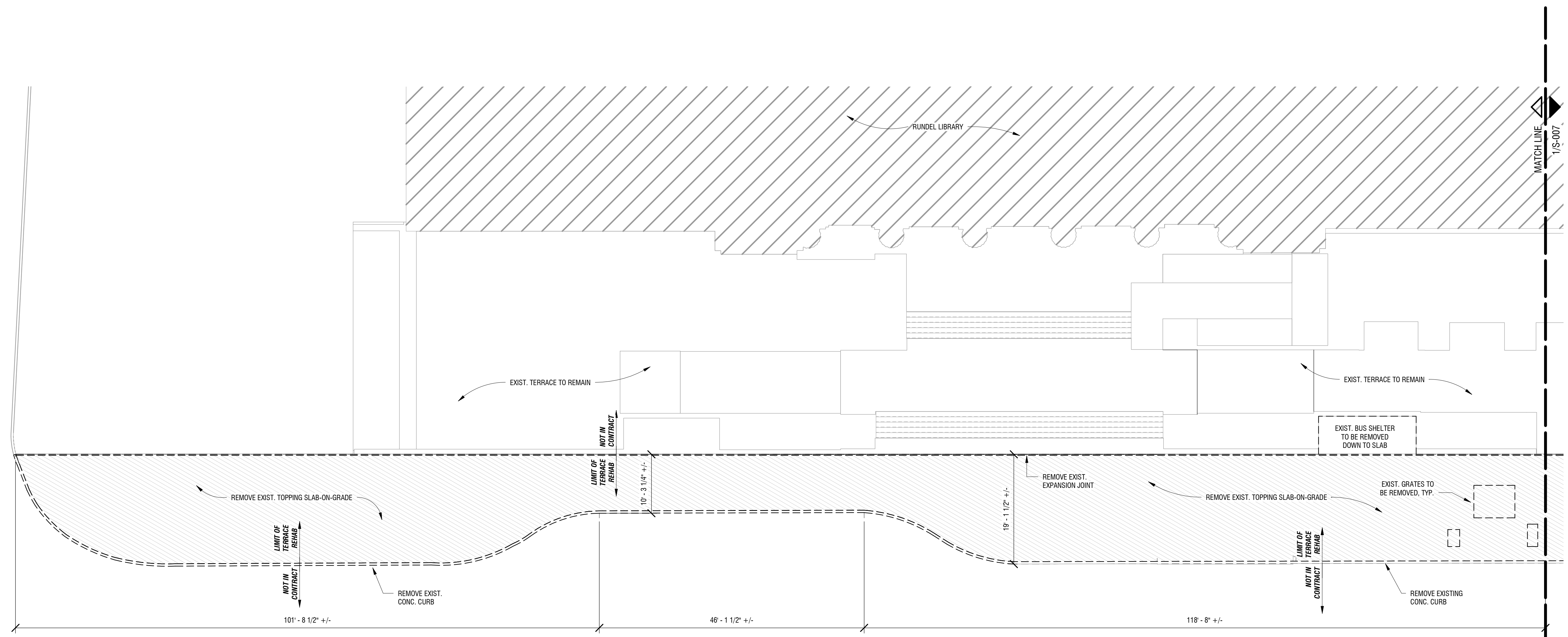
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: MML		
REVIEWED BY: JMG		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**EAST SIDEWALK SURFACE DEMOLITION PLAN**

DRAWING NUMBER:

**S-008**

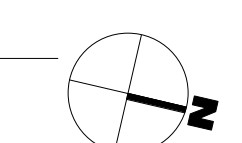
DEMOLITION LEGEND	
---	TO BE DEMOLISHED
---	EXISTING TO REMAIN



**1 EAST SIDEWALK SURFACE DEMOLITION PLAN**

S-008 1" = 10'-0"

- DEMOLITION PLAN NOTES:
1. ALL DIMENSIONS AND FRAMING SIZES ARE ASSUMED BASED ON AVAILABLE EXISTING DRAWINGS AND LASER SCAN. DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED BY CONTRACTOR.
  2. COLUMN GRIDLINE NAMES ARE FOR REFERENCE ONLY AND ARE NOT REPRESENTATIVE OF EXISTING DRAWINGS.
  3. NOTIFY E.O.R. OF ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS.
  4. NO ASBESTOS TESTING HAS BEEN PERFORMED ON EXISTING CONDITIONS.
  5. COORDINATE WITH MEP FOR TEMPORARY SUPPORTS AND MEP REMOVALS.



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NO.	DATE	DESCRIPTION

PROJECT NUMBER: 2170391

DRAWN BY: MML

REVIEWED BY: JMG

ISSUED FOR: 35% PRELIMINARY DESIGN

DATE: JULY 2018

DRAWING NAME:

**NORTH TERRACE FOUNDATION PLAN**

DRAWING NUMBER:

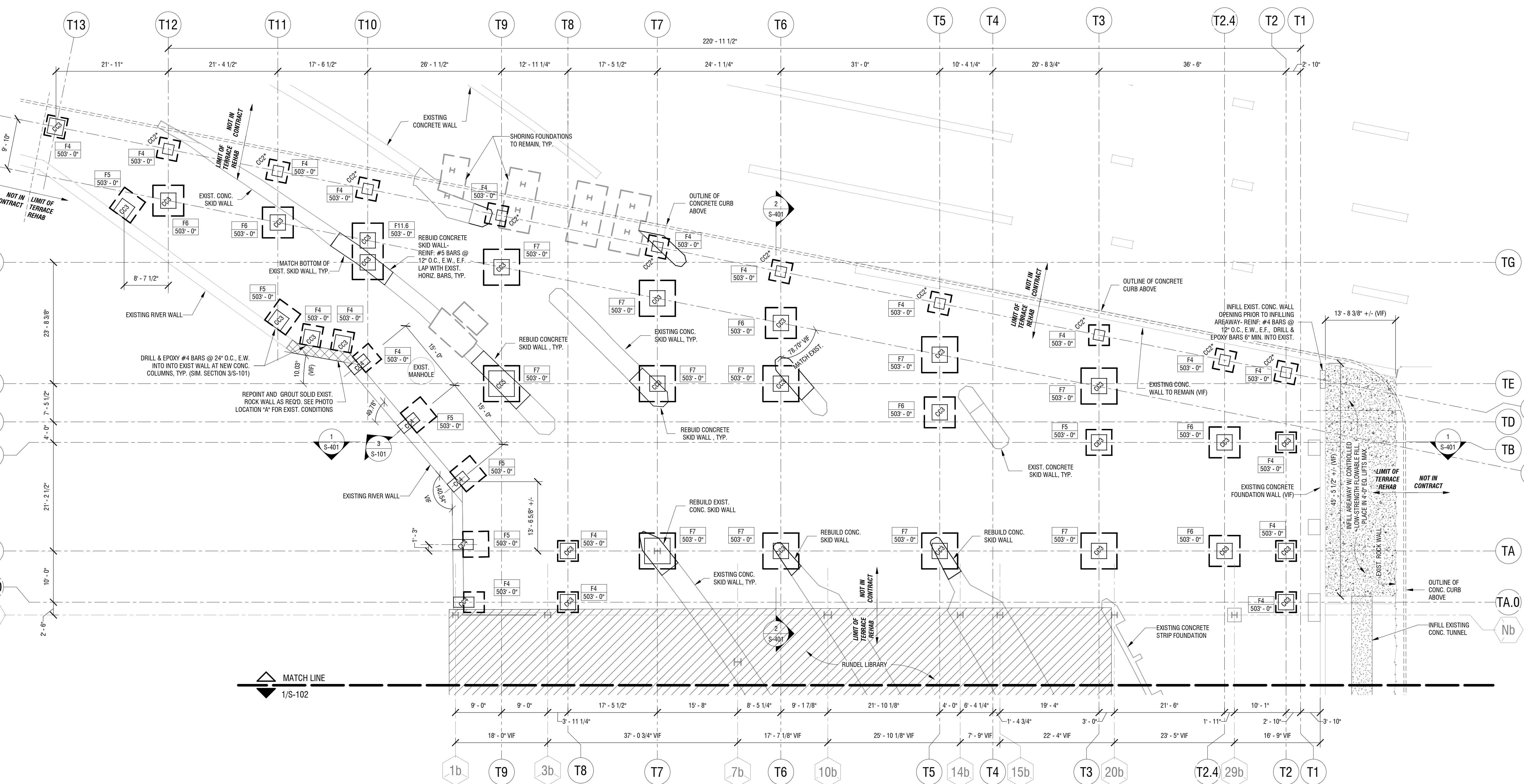
**S-101**

FOUNDATION LEGEND	
1.	F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE) [-#'-#"] - BELOW COLUMN FOOTING TYPE INDICATES TOP OF FOOTING ELEVATION
2.	CC# - INDICATES CONCRETE COLUMN TYPE (SEE COLUMN SCHEDULE)
3.	# - INDICATES WALL TYPE (SEE FOUNDATION WALL & OR WALL SCHEDULE)
4.	WF# - INDICATES WALL FOOTING TYPE (SEE WALL FOOTING SCHEDULE)
5.	#'-#"-# - BOTTOM OF FOOTING ELEV. FOR WALL FOOTING W/ RESPECT TO DATUM ELEVATION = 0'-0"
6.	TOP OF WALL ELEVATION



PHOTO LOCATION A - WALL REPAIR - EXISTING CONDITIONS

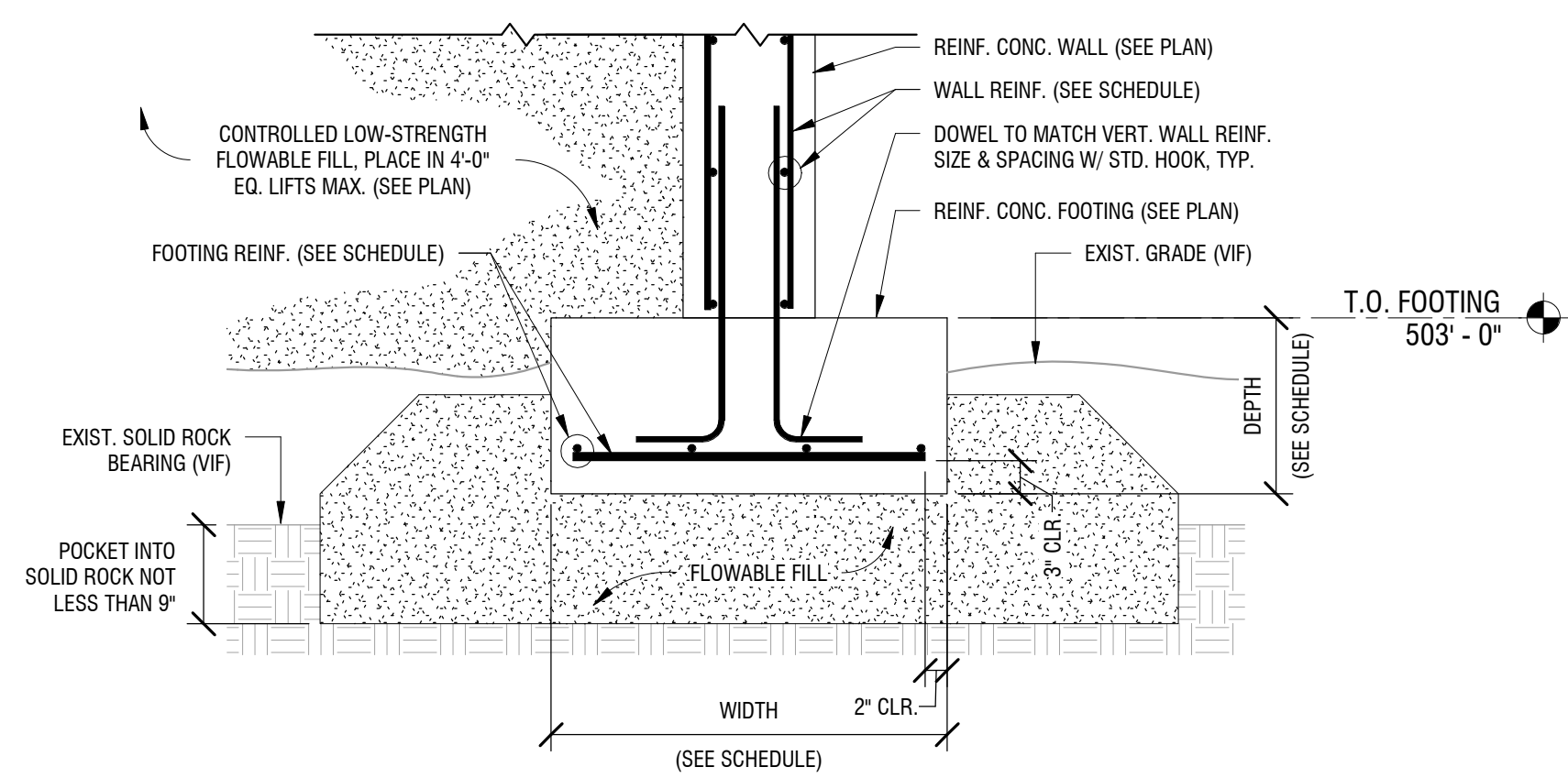
**3 FOUNDATION SECTION AT EXIST. RIVERWALL**  
S-101 3/4" = 1'-0"



**1 NORTH TERRACE FOUNDATION PLAN**  
S-101 1" = 10'-0"

- FOUNDATION PLAN NOTES:**
- EXISTING GRADE EQUALS FINISHED GRADE. EXISTING GRADE VARIES (VF). TOP OF FOOTING ELEVATION AT 503'-0". U.N.O.
  - ALL COLUMNS SHALL BE 18"-Ø FROM 8"Ø CONCRETE BEAMS TO T.O. FOOTING. POCKET FOOTINGS INTO ROCK 9" MINIMUM. PER TYPICAL DETAILS. ELSE, INSTALL CONTROLLED LOW-STRENGTH MATERIAL (FLOWABLE FILL) FROM T.O. ROCK TO UNDERSIDE OF FOOTING. POCKET FOOTING 9" INTO FLOWABLE FILL PER TYPICAL DETAILS.
  - CENTER ISOLATED FOOTINGS UNDER COLUMNS AND/OR AT COLUMN LINE INTERSECTIONS. U.N.O..
  - DO NOT SCALE DRAWINGS. SEE LANDSCAPE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
  - SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.

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**FOUNDATION LEGEND**

- F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)  
[-#'-#"] - BELOW COLUMN FOOTING TYPE INDICATES TOP OF FOOTING ELEVATION
- CC# - INDICATES CONCRETE COLUMN TYPE (SEE COLUMN SCHEDULE)
- W# - INDICATES WALL TYPE (SEE FOUNDATION WALL & OR WALL SCHEDULE)
- WF# - INDICATES WALL FOOTING TYPE (SEE WALL FOOTING SCHEDULE)
- #'-#"-# - BOTTOM OF FOOTING ELEV. FOR WALL FOOTING W/ RESPECT TO DATUM ELEVATION = 0'-0".
- [##'-##"] - TOP OF WALL ELEVATION

2 FOUNDATION SECTION AT AREAWAY FLOOR  
3/4" = 1'-0"

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Honeoye Falls, New York 14472  
585-582-2000  
bayerla.com

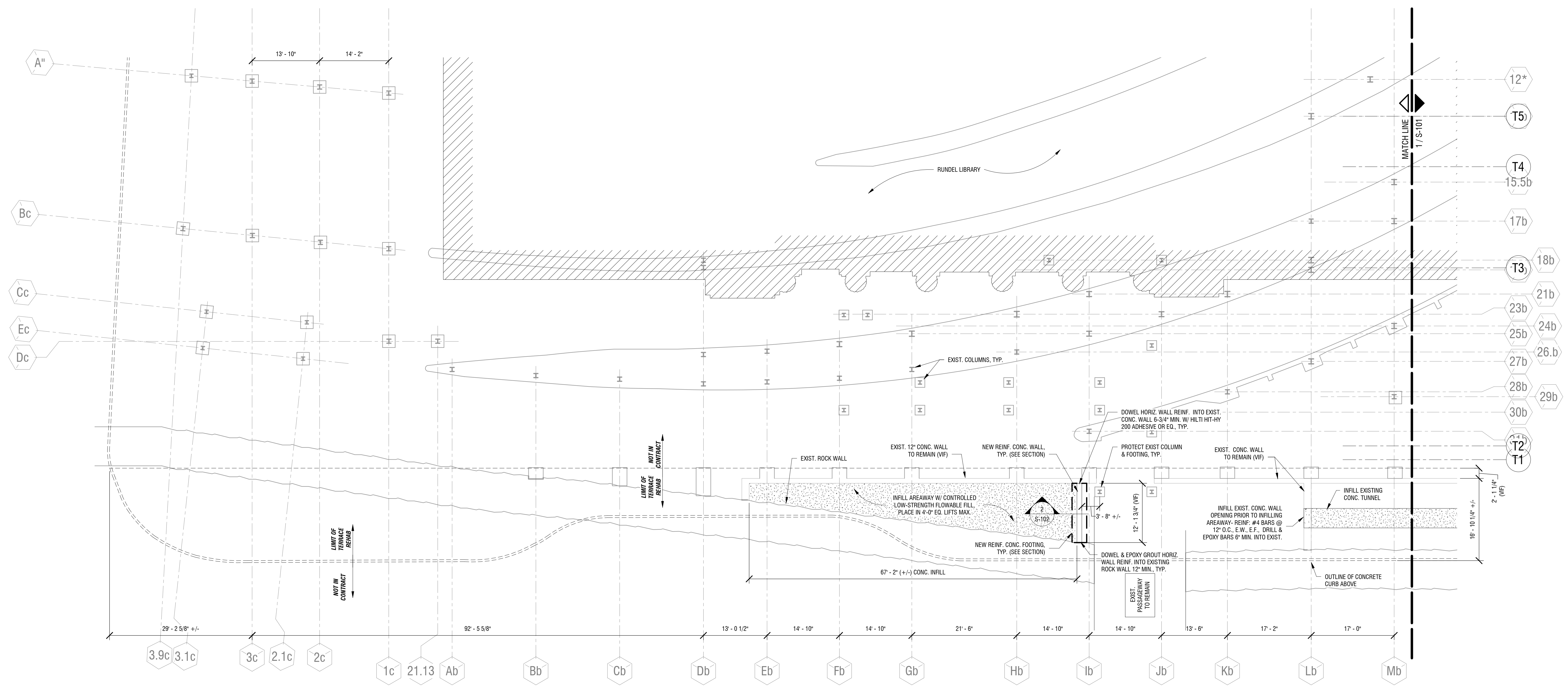
NOT FOR CONSTRUCTION

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1 EASTSIDE SIDEWALK FOUNDATION PLAN & AREAWAY INFILL PLAN  
1" = 10'-0"

- FOUNDATION PLAN NOTES:**
- EXISTING GRADE EQUALS FINISHED GRADE, EXISTING GRADE VARIES (V.F.), TOP OF FOOTING ELEVATION AT 503'-0", U.N.O.
  - ALL COLUMNS SHALL BE 18'-0" FROM B.O. CONCRETE BEAMS TO T.O. FOOTING. POCKET FOOTINGS INTO ROCK 9", MINIMUM, PER TYPICAL DETAILS. ELSE, INSTALL CONTROLLED LOW-STRENGTH MATERIAL (FLOWABLE FILL) FROM T.O. ROCK TO UNDERSIDE OF FOOTING. POCKET FOOTING 9" INTO FLOWABLE FILL PER TYPICAL DETAILS.
  - CENTER ISOLATED FOOTINGS UNDER COLUMNS AND/OR AT COLUMN LINE INTERSECTIONS, U.O.N.
  - DO NOT SCALE DRAWINGS. SEE LANDSCAPE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
  - SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: MML		
REVIEWED BY: JMG		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**EASTSIDE SIDEWALK FOUNDATION PLAN & AREAWAY INFILL PLAN**

DRAWING NUMBER:

**S-102**

7/25/2018 3:08:26 PM  
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NOT FOR CONSTRUCTION

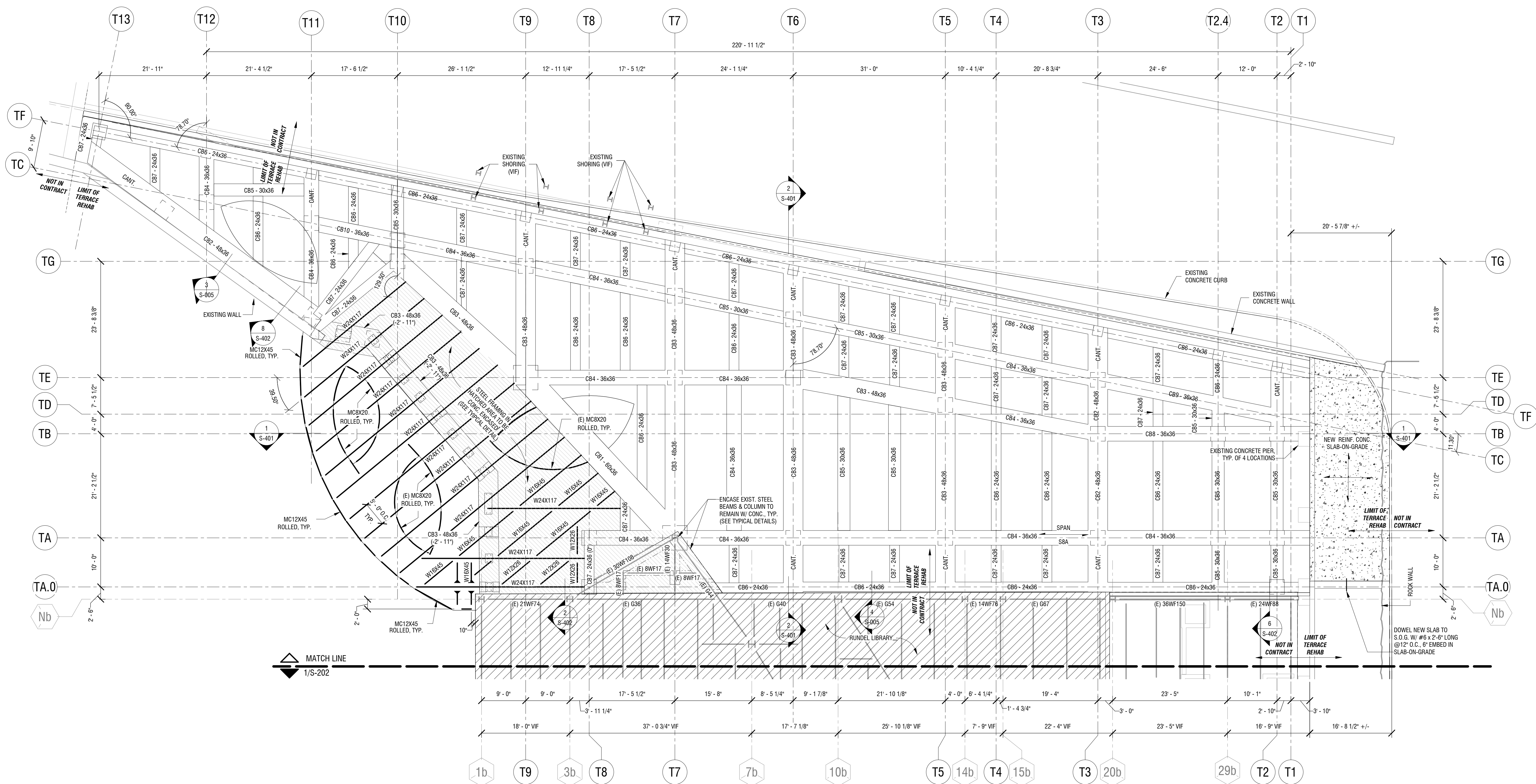
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FRAMING LEGEND	
1.	— DENOTES MOMENT CONNECTION
2.	— DENOTES RIGID CONNECTION
3.	(# - #) BEAM AT ELEV. ABOVE OR BELOW PLAN ELEV. (SEE PLAN NOTES)
4.	(BELOW) BEAM LOCATED BELOW ANOTHER BEAM IN PLAN
5.	S# / SPAN ELEVATED SLAB; ARROWS INDICATE SPAN DIRECTION # = SLAB MARK (SEE ELEVATED SLAB SCHEDULE)
6.	R# / SPAN ROOF DECK; ARROWS INDICATE SPAN DIRECTION # = DECK MARK (SEE ROOF DECK SCHEDULE)
7.	W# WALL MARK; SEE WALL SCHEDULE
8.	F.D. F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)
9.	C.O. = CLEAN OUT (SEE MECH. & ARCH.)
10.	R.D. R.D. = ROOF DRAIN (SEE MECH. & ARCH.)
11.	CC# - INDICATES CONCRETE COLUMN TYPE (SEE COLUMN SCHEDULE) [# - #] - BELOW COLUMN TYPE INDICATES TOP OF COLUMN ELEVATION WITH RESPECT TO DATUM ELEVATION = 0'-0"



**1 NORTH TERRACE FRAMING PLAN**  
S-201  
1" = 10'-0"

- NORTH TERRACE FRAMING PLAN NOTES:**
1. TOP OF CONCRETE BEAM ELEVATIONS SHALL BE (+524'-0") AND TOP OF STEEL BEAM ELEVATIONS SHALL BE (+523'-4"). FLOOR DATUM ELEV. (0'-0"). DEVIATIONS FROM THIS ELEVATION ARE NOTED ON PLAN.
  2. SEE M.E.P. DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, FLOOR PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
  3. DO NOT SCALE DRAWINGS. SEE LANDSCAPE ARCHITECTURAL PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
  4. SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
  5. SEE COLUMN, BEAM, AND STRUCTURAL SLAB WITH TYPICAL DETAILS ON S-001.
  6. HOLD
  7. BALANCE OF SLAB REIN. FOR REINFRANT CORNERS AND OPENINGS NOT SHOWN FOR CLARITY. SEE TYPICAL DETAILS.
  8. DO NOT PLACE CONTROL JOINTS IN STRUCTURAL SLABS.

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: MML		
REVIEWED BY: JMG		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE FRAMING PLAN**

DRAWING NUMBER:

**S-201**

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ELEVATED SLAB LEGEND	
1. —	DENOTES MOMENT CONNECTION
2. (# - #)	BEAM AT ELEV. ABOVE OR BELOW PLAN ELEV. (SEE PLAN NOTES)
3. S# SPAN	ELEVATED SLAB: ARROWS INDICATE SPAN DIRECTION # = SLAB MARK (SEE ELEVATED SLAB SCHEDULE)
4. R# SPAN	ROOF DECK: ARROWS INDICATE SPAN DIRECTION # = DECK MARK (SEE ROOF DECK SCHEDULE)
5. W#	WALL MARK: SEE WALL SCHEDULE
6. F.D.	F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)
7. C.O.	C.O. = CLEAN OUT (SEE MECH. & ARCH.)
8. R.D.	R.D. = ROOF DRAIN (SEE MECH. & ARCH.)

NOT FOR CONSTRUCTION

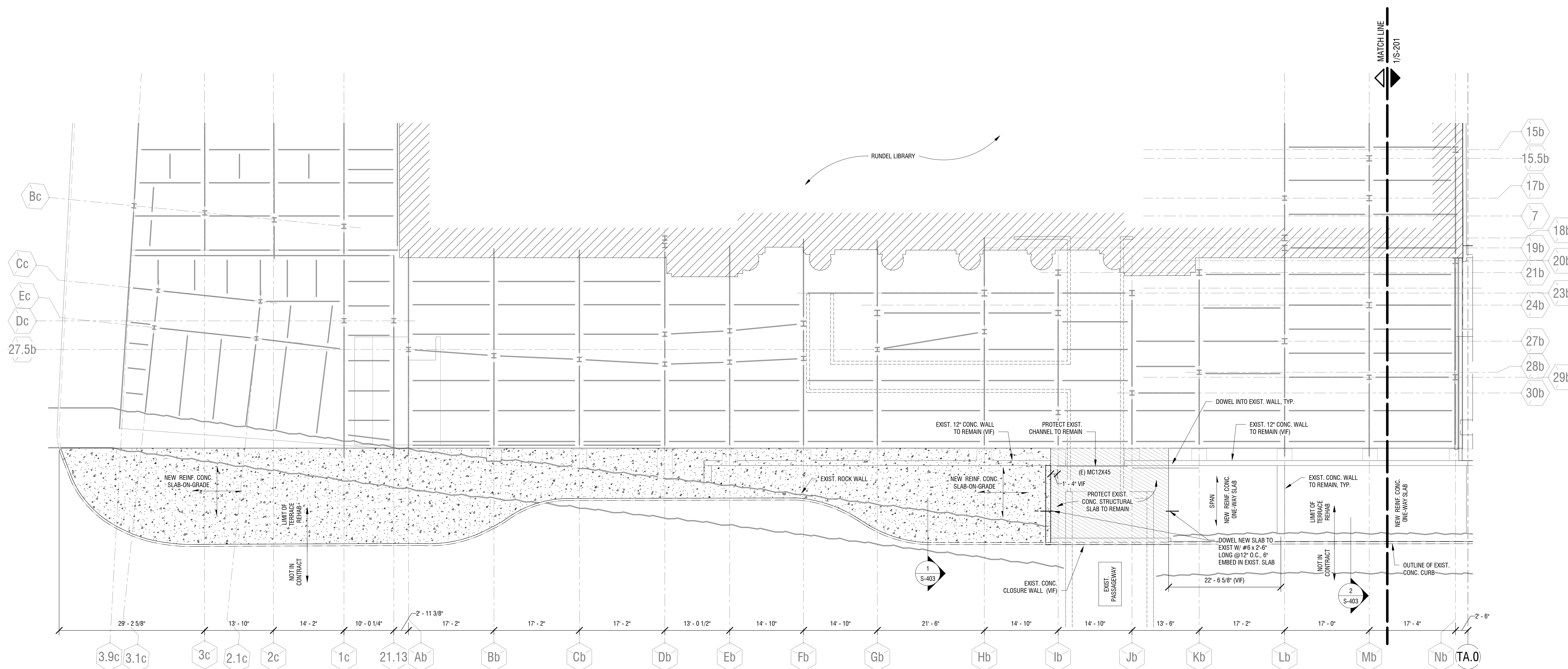
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**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
ROCHESTER, NY 14604

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2170391
DRAWN BY:		MML
REVIEWED BY:		JMG
ISSUED FOR:		35% PRELIMINARY DESIGN
DATE:		JULY 2018
DRAWING NAME:		



**1 EAST SIDEWALK FRAMING PLAN**

S-202  
1" = 10'-0"

**ROOF FRAMING PLAN NOTES:**

- TOP OF EXISTING FRAMING STEEL ELEVATIONS AT (+525' - 10") AS PER EXISTING DRAWINGS (VIF)
- ALL DIMENSIONS AND FRAMING SIZES ARE ASSUMED BASED ON AVAILABLE EXISTING DRAWINGS AND LASER SCAN. DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED BY CONTRACTOR.
- SEE MECHANICAL/ELECTRICAL DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, FLOOR PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
- SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.

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**EAST SIDEWALK FRAMING PLAN**

DRAWING NUMBER:

**S-202**

**NOT FOR CONSTRUCTION**

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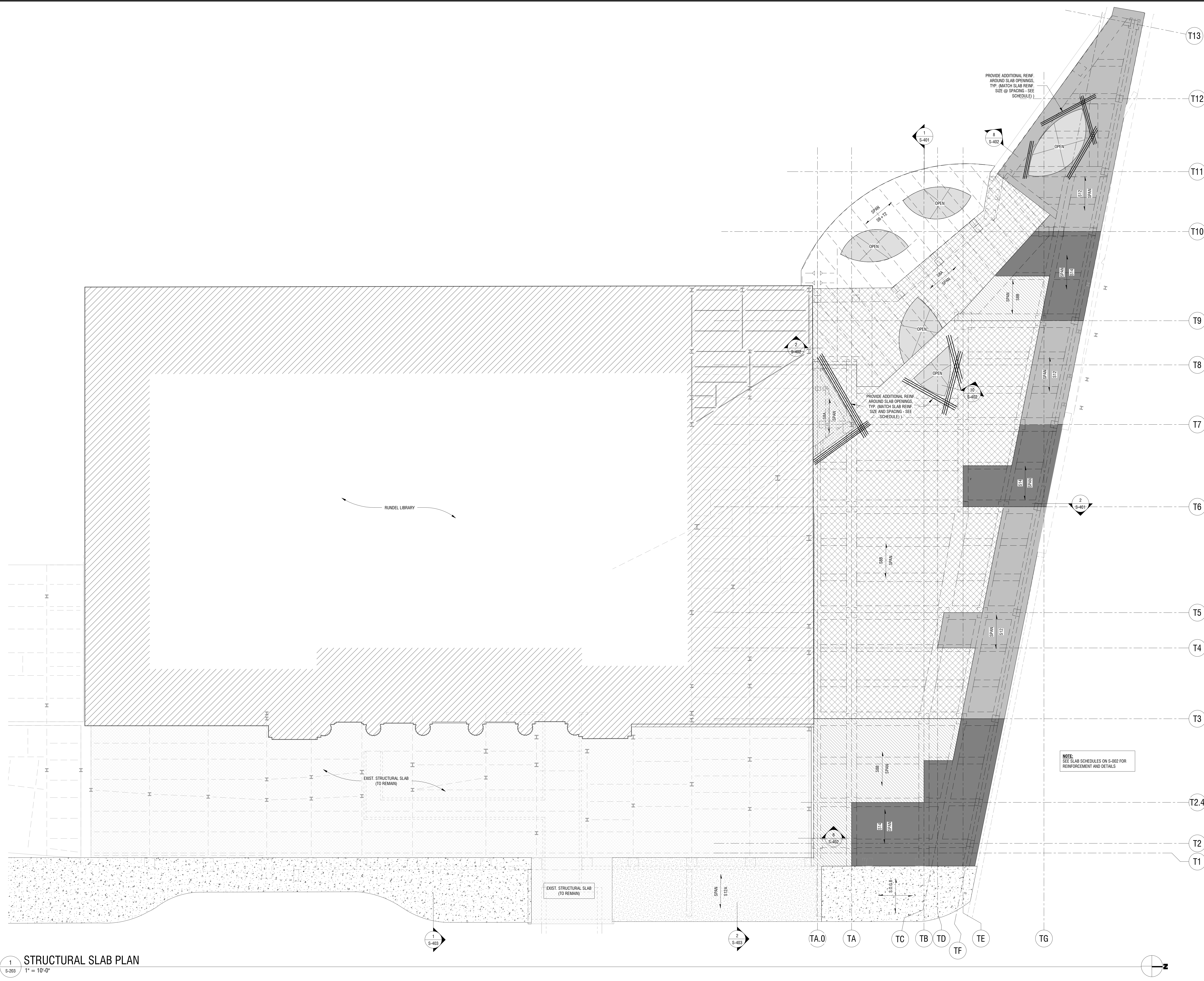
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**OVERALL STRUCTURAL SLAB PLAN**

DRAWING NUMBER:

**S-203**



**STRUCTURAL SLAB PLAN**

1  
S-203 1" = 10'-0"

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SLAB-ON-GRADE LEGEND	
1	SLAB-ON-GRADE: ARROWS INDICATE LIMITS # = SLAB MARK
2	SPOT ELEVATION INDICATES DEPTH BELOW F.F.E. (DATUM ELEVATION 0'-0")
3	CONTROL/CONSTRUCTION JOINT
4	W# WALL MARK: SEE WALL SCHEDULE
5	F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)
6	C.O. = CLEAN OUT (SEE MECH. & ARCH.)
7	DENOTES STEP IN SLAB
8	DENOTES SLOPE IN SLAB

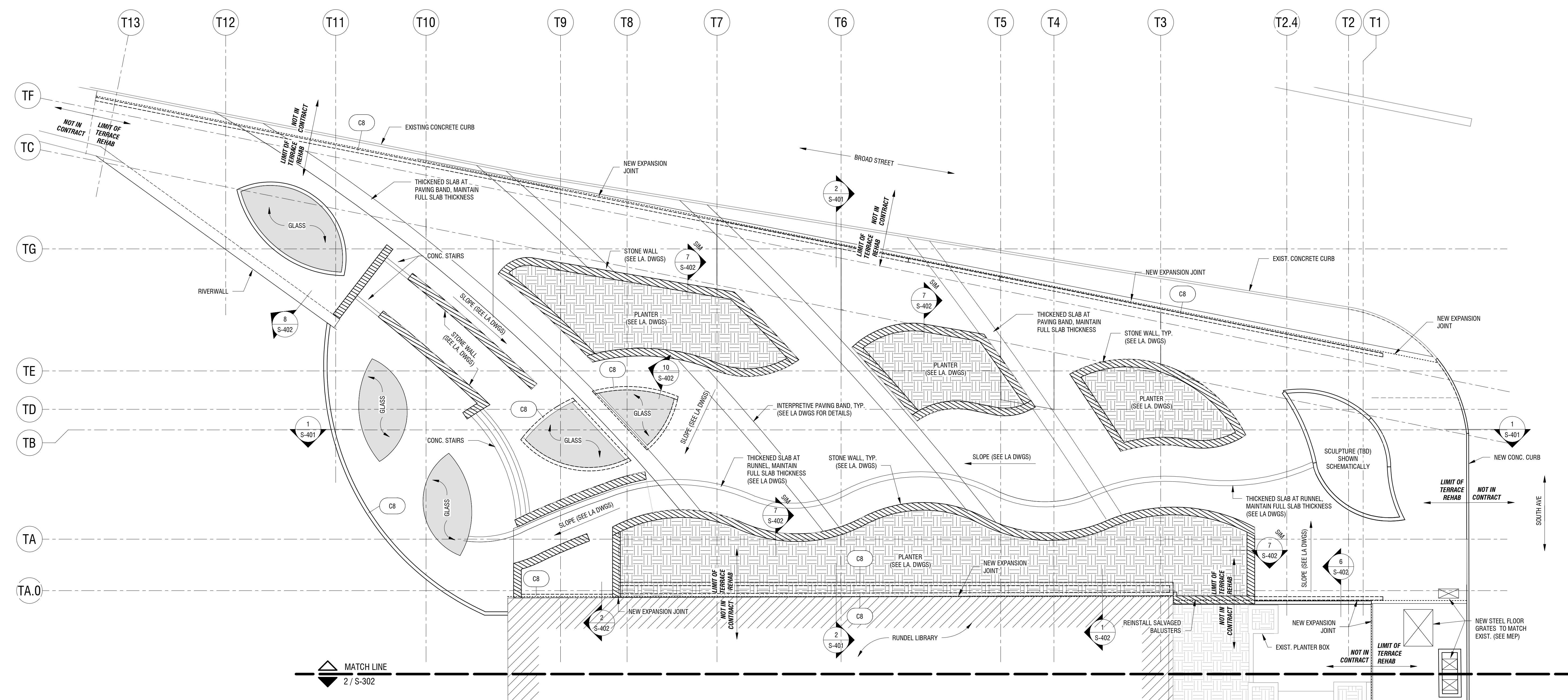
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DATE: JULY 2018		
DRAWING NAME:		

**NORTH TERRACE SURFACE PLAN**

DRAWING NUMBER:

**2 NORTH TERRACE SURFACE PLAN**  
1" = 10'-0"

- SLAB PLAN NOTES:**
- ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION 524.00' (DATUM ELEV. 0' - 0") AND ARE NOTED ON PLAN. U.N.O.
  - DO NOT SCALE DRAWINGS. SEE LANDSCAPE ARCHITECTURAL PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
  - SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
  - SEE M.E.P. DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, HOUSEKEEPING PADS, FLOOR PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
  - BALANCE OF SLAB REINF. FOR REENTRANT CORNERS AND OPENINGS NOT SHOWN FOR CLARITY. SEE TYPICAL DETAILS.
  - SLAB-ON-GRADE CONTROL JOINT SPACING TO BE AT 12'-0" O.C. MAX.

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**S-301**

SLAB-ON-GRADE LEGEND	
1	SLAB-ON-GRADE: ARROWS INDICATE LIMITS # = SLAB MARK
2	SPOT ELEVATION INDICATES DEPTH BELOW F.F.E. (DATUM ELEVATION 0'-0")
3	CONTROL/CONSTRUCTION JOINT
4	W# WALL MARK: SEE WALL SCHEDULE
5	F.D. FLOOR DRAIN (SEE MECH. & ARCH.)
6	C.O. CLEAN OUT (SEE MECH. & ARCH.)
7	DENOTES STEP IN SLAB
8	DENOTES SLOPE IN SLAB

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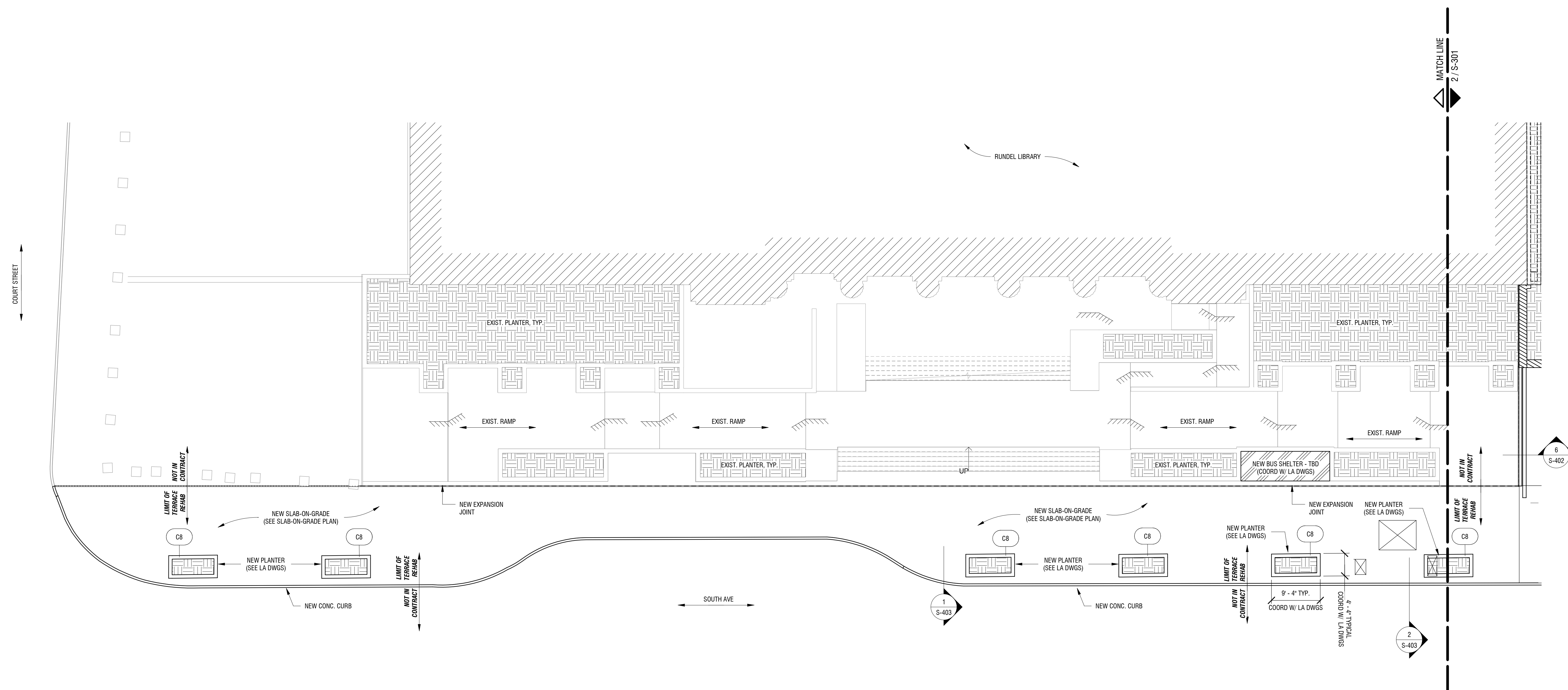
**RUNDEL LIBRARY PHASE IV**  
115 SOUTH AVE.  
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REVIEWED BY:		JMG
ISSUED FOR:		35% PRELIMINARY DESIGN
DATE:		JULY 2018
DRAWING NAME:		

**EAST SIDEWALK - SURFACE PLAN**

DRAWING NUMBER:

**S-302**



**2 EAST SIDEWALK SURFACE PLAN**

S-302 1" = 10'-0"

- SLAB PLAN NOTES:**
1. ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION 524.00' (DATUM ELEV. 0'-0") AND ARE NOTED ON PLAN, U.N.O.
  2. DO NOT SCALE DRAWINGS. SEE LANDSCAPE ARCHITECTURAL PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
  3. SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
  4. SEE M.E.P. DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, HOUSEKEEPING PADS, FLOOR PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
  5. BALANCE OF SLAB REINF. FOR REINTEGRANT CORNERS AND OPENINGS NOT SHOWN FOR CLARITY. SEE TYPICAL DETAILS.
  6. SLAB-ON-GRADE CONTROL JOINT SPACING TO BE AT 12'-0" O.C. MAX.



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REVIEWED BY: **JMG**

ISSUED FOR: **35% PRELIMINARY DESIGN**

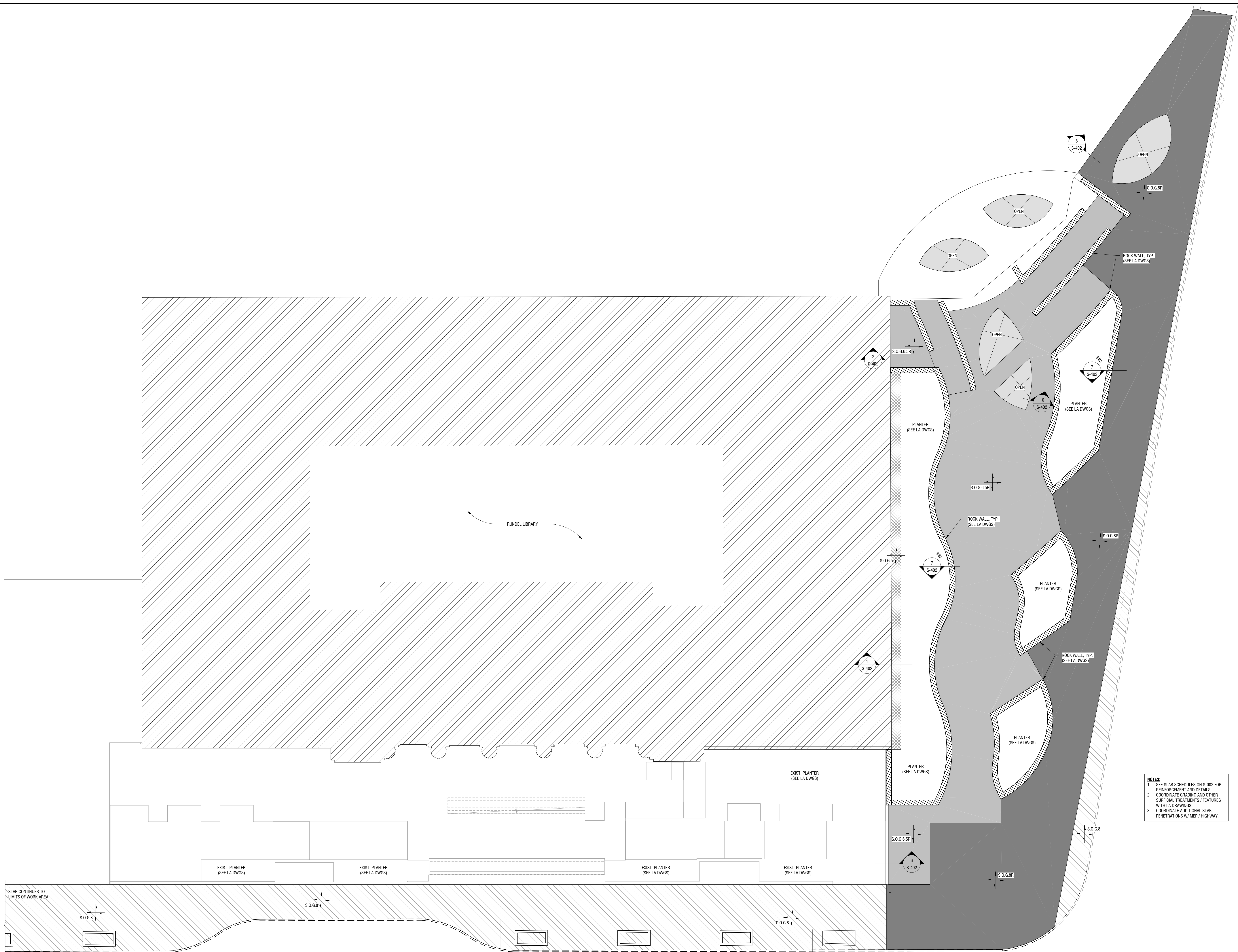
DATE: **JULY 2018**

DRAWING NAME:

**OVERALL SLAB-ON-GRADE PLAN**

DRAWING NUMBER:

**S-303**



**1 SLAB-ON-GRADE PLAN**  
S-303 1" = 10'-0"

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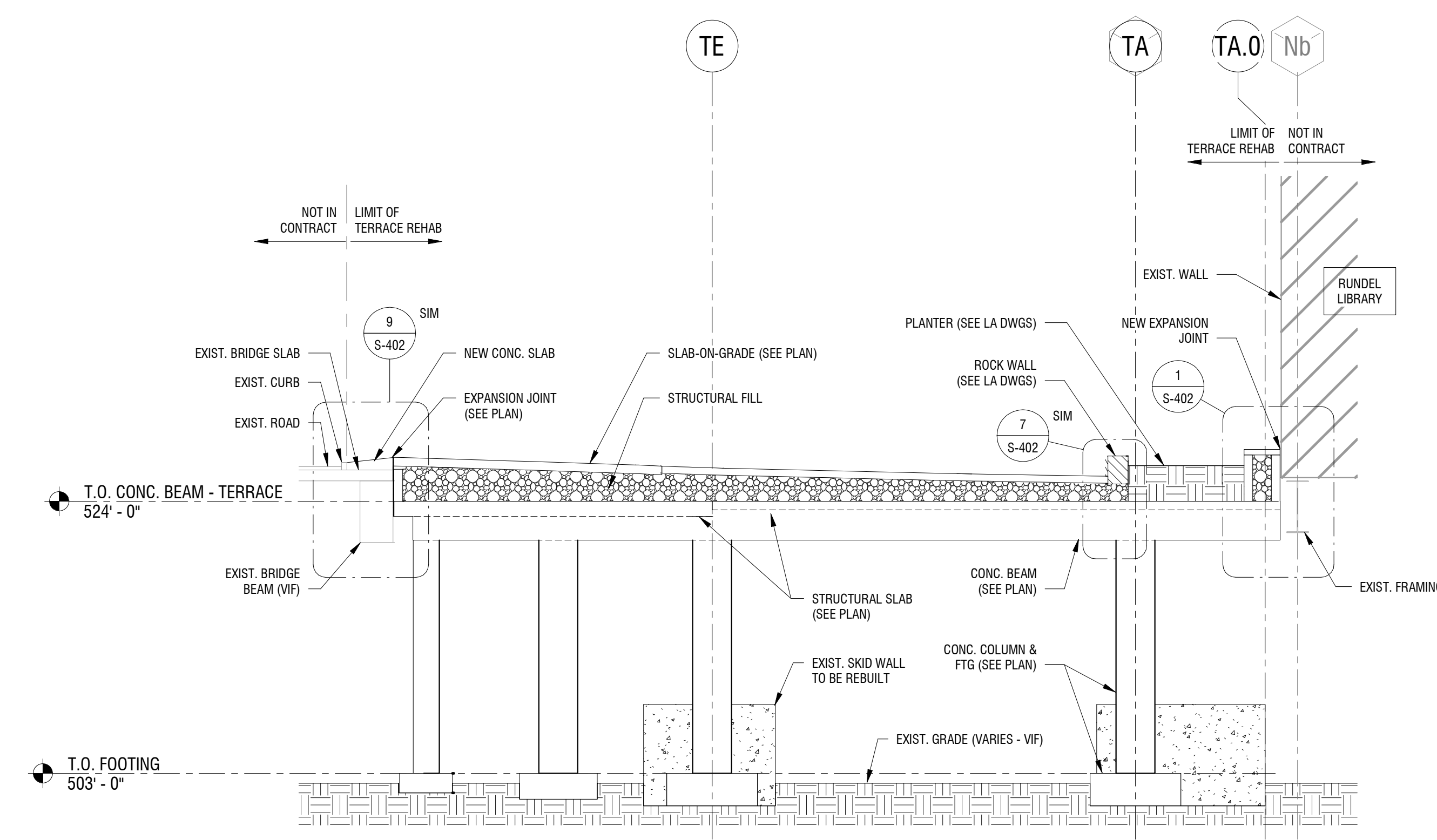
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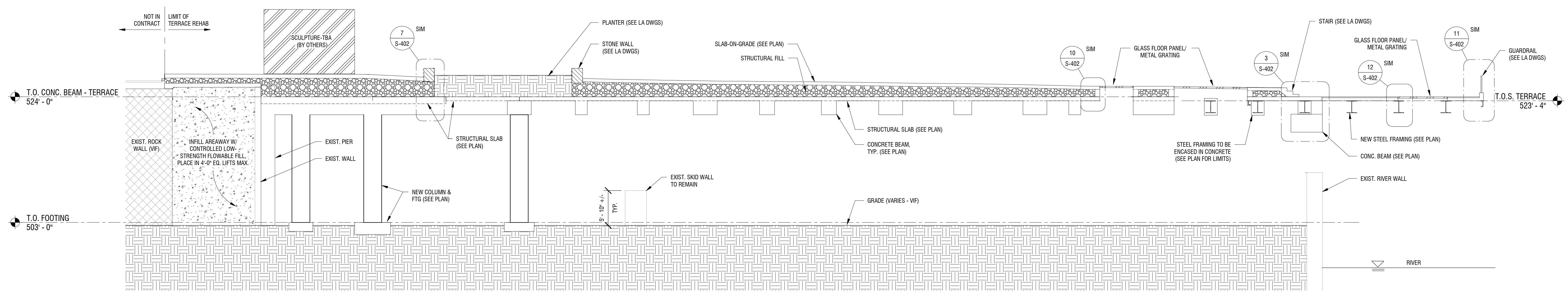
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**2 NORTH TERRACE ELEVATION**  
S-401 1/8" = 1'-0"



**1 NORTH TERRACE ELEVATION**  
S-401 1/8" = 1'-0"

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**ELEVATIONS**

DRAWING NUMBER

**S-401**

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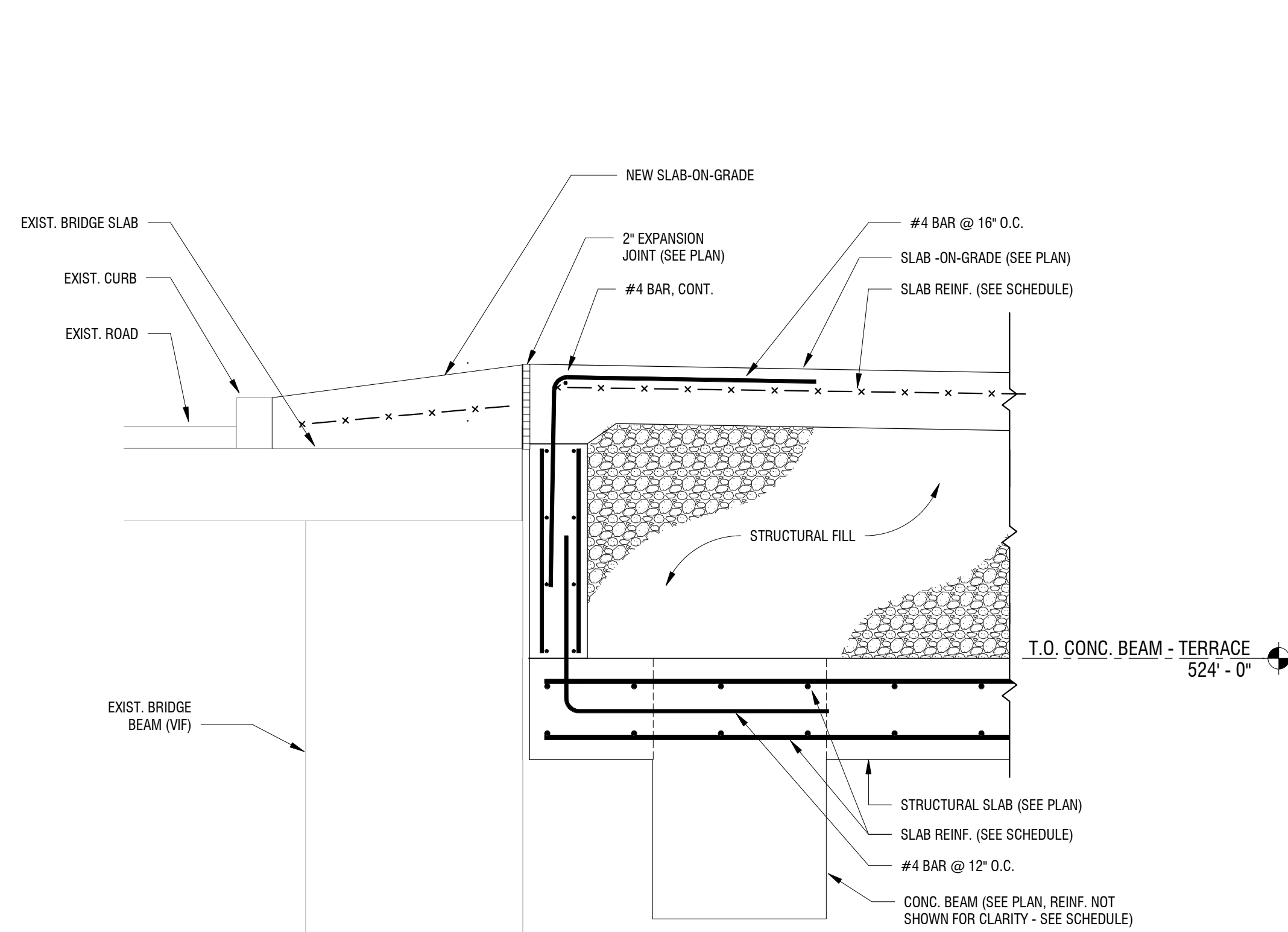
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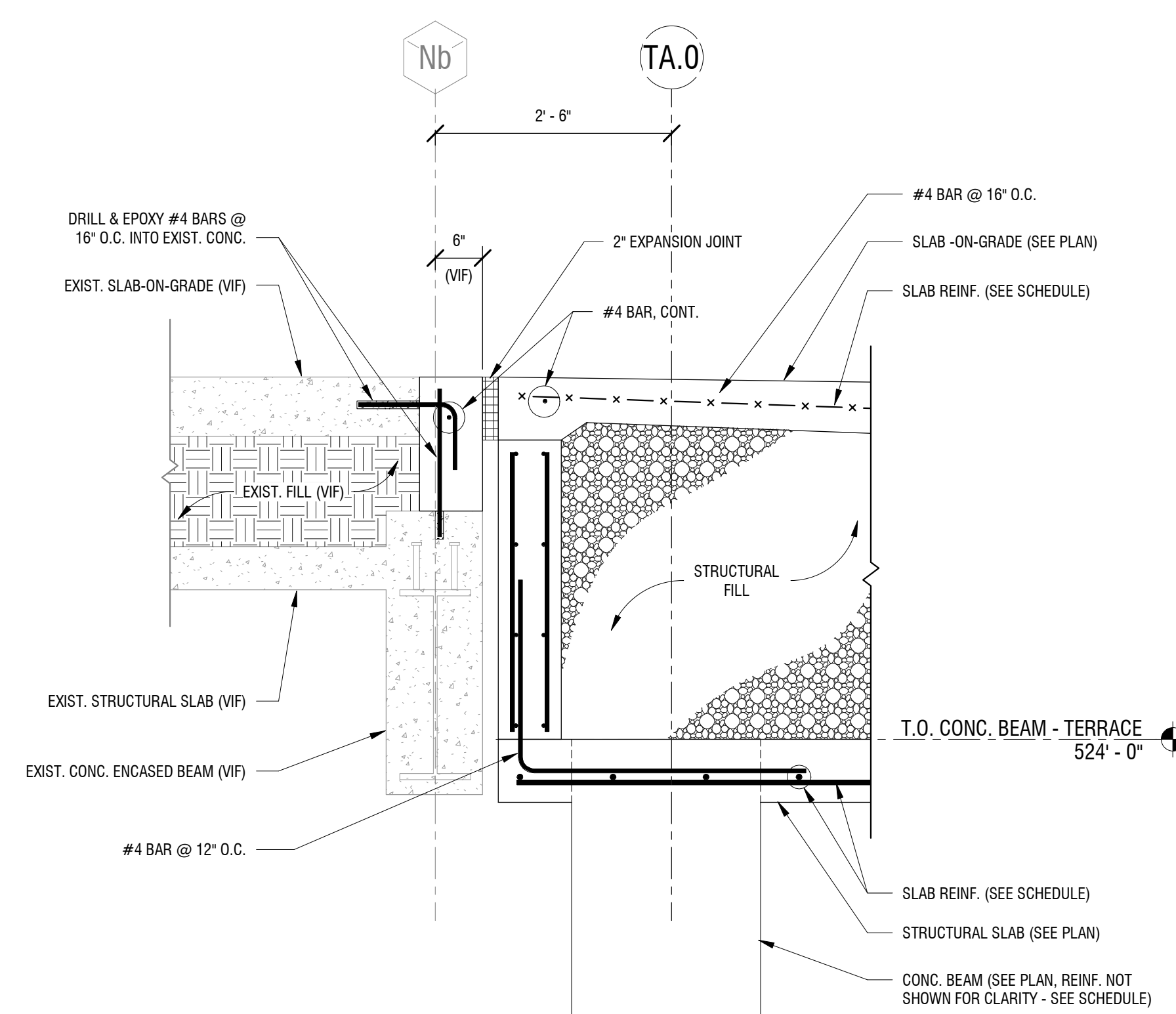
**FRAMING & SLAB SECTIONS**

DRAWING NUMBER

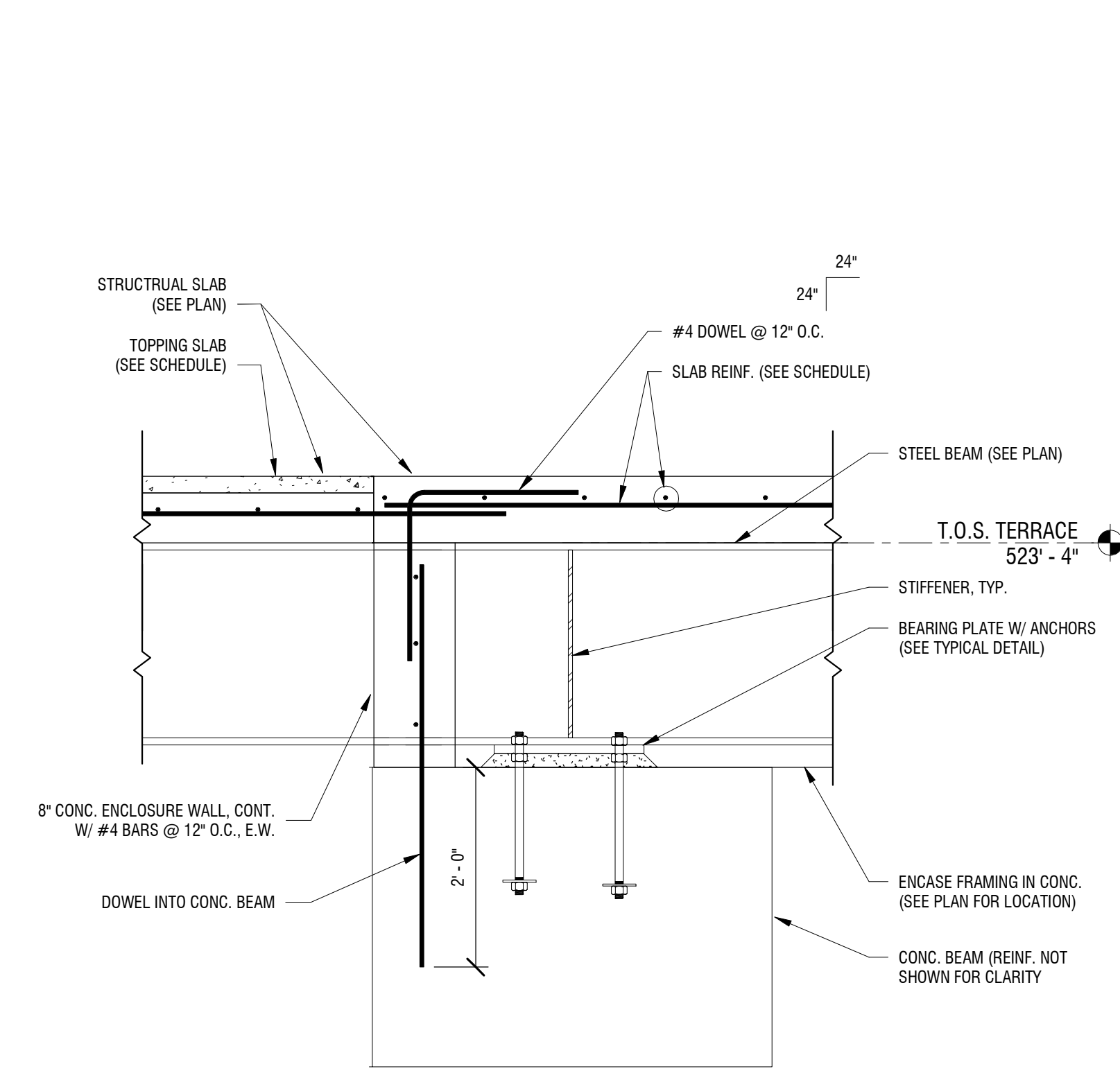
**S-402**



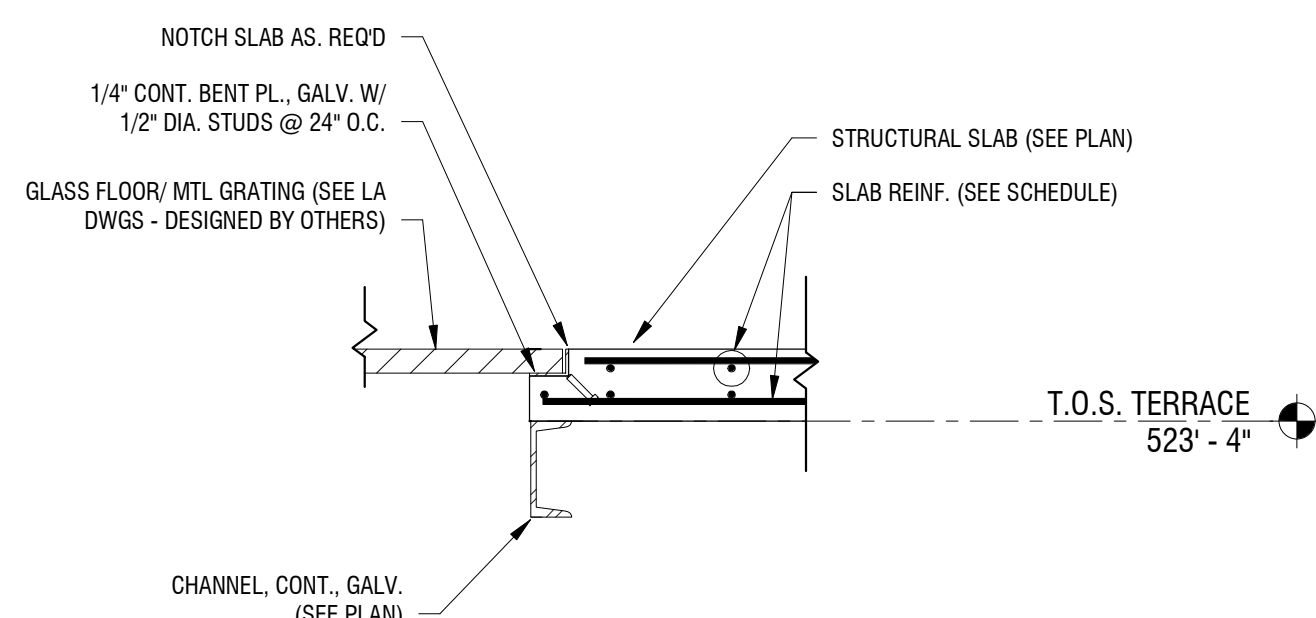
9  
S-402 3/4" = 1'-0"



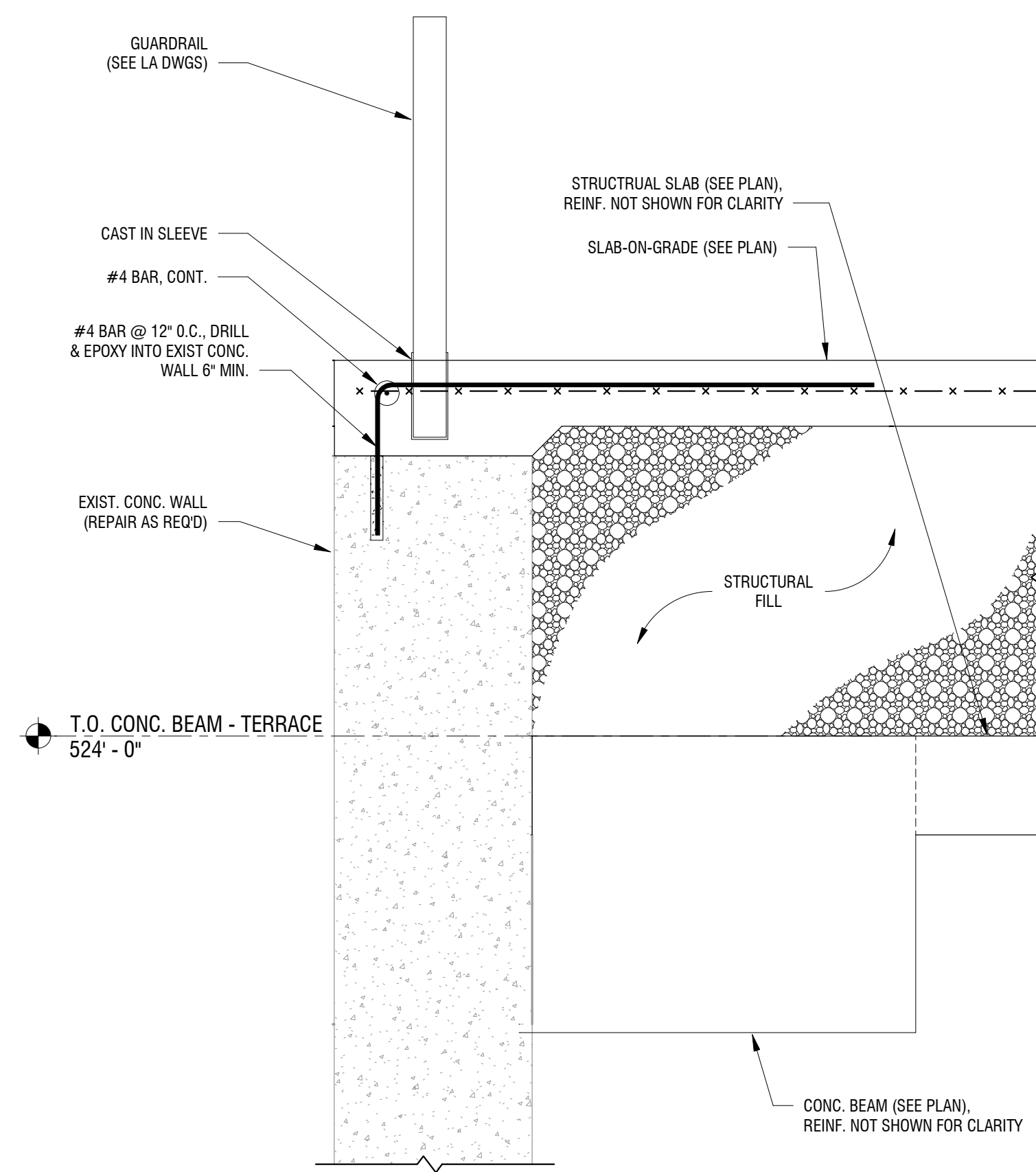
6  
S-402 3/4" = 1'-0"



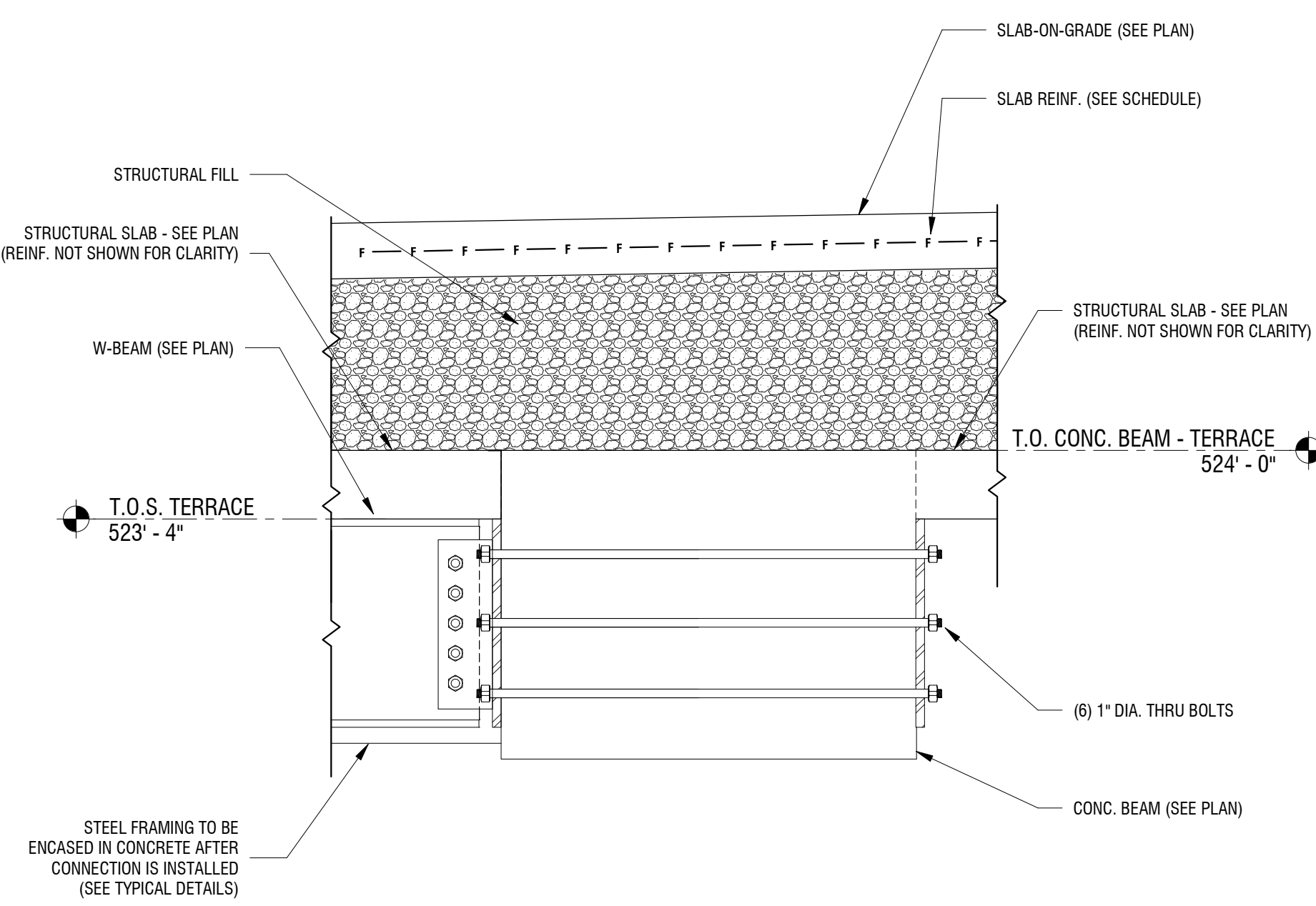
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S-402 3/4" = 1'-0"



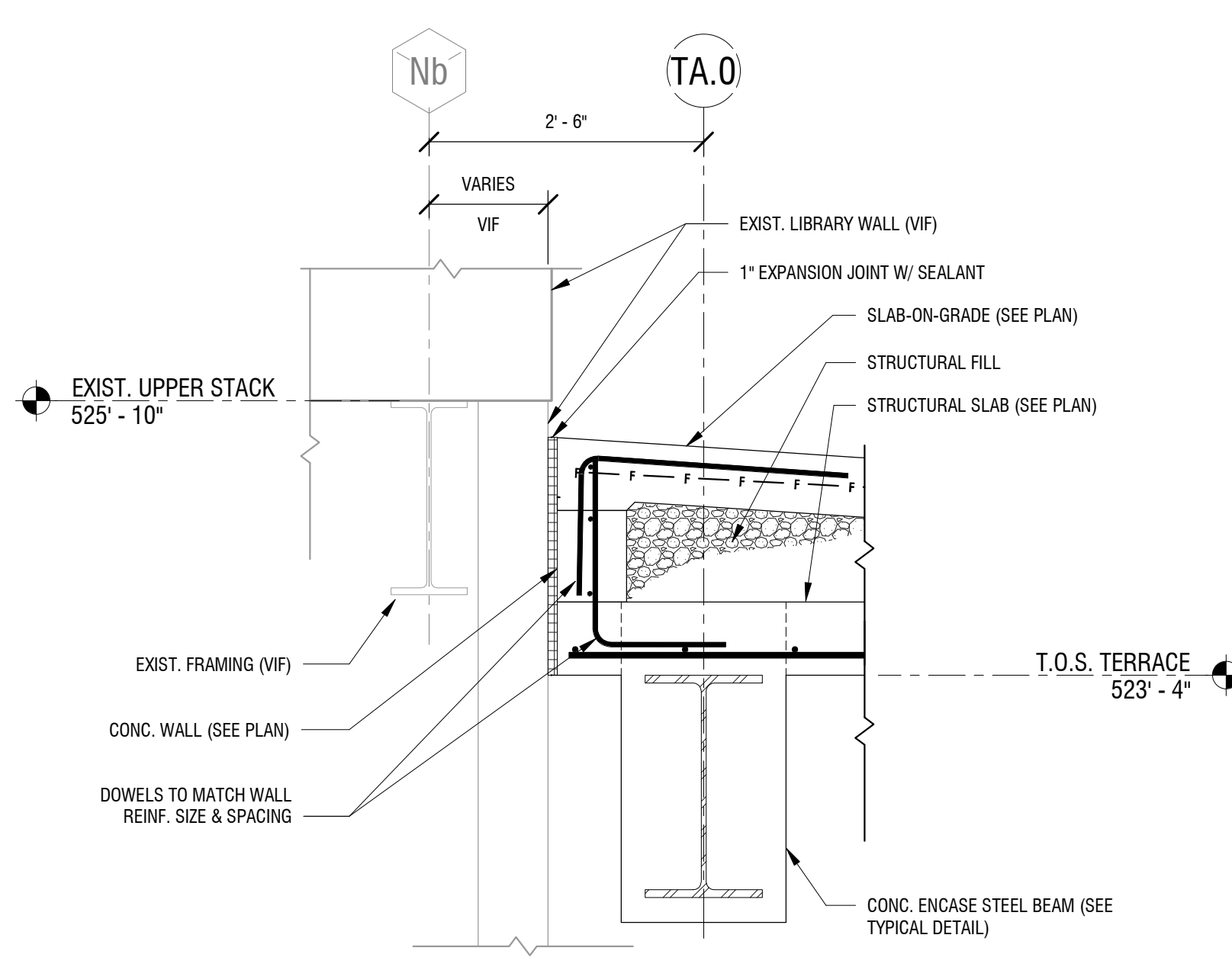
12  
S-402 3/4" = 1'-0"



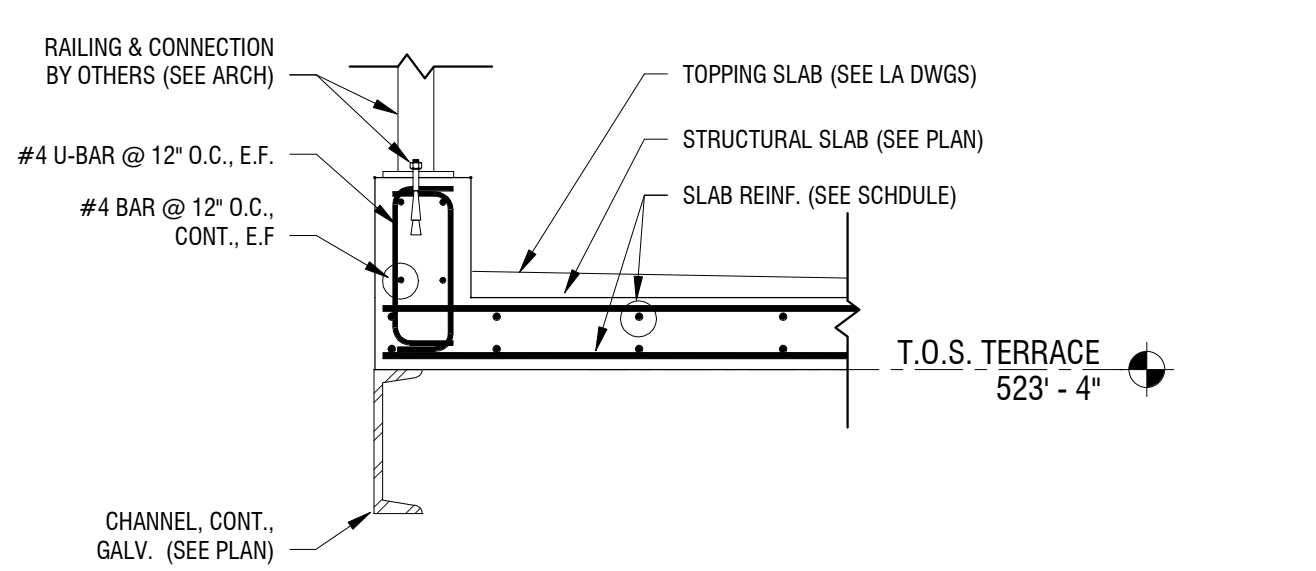
8  
S-402 3/4" = 1'-0"



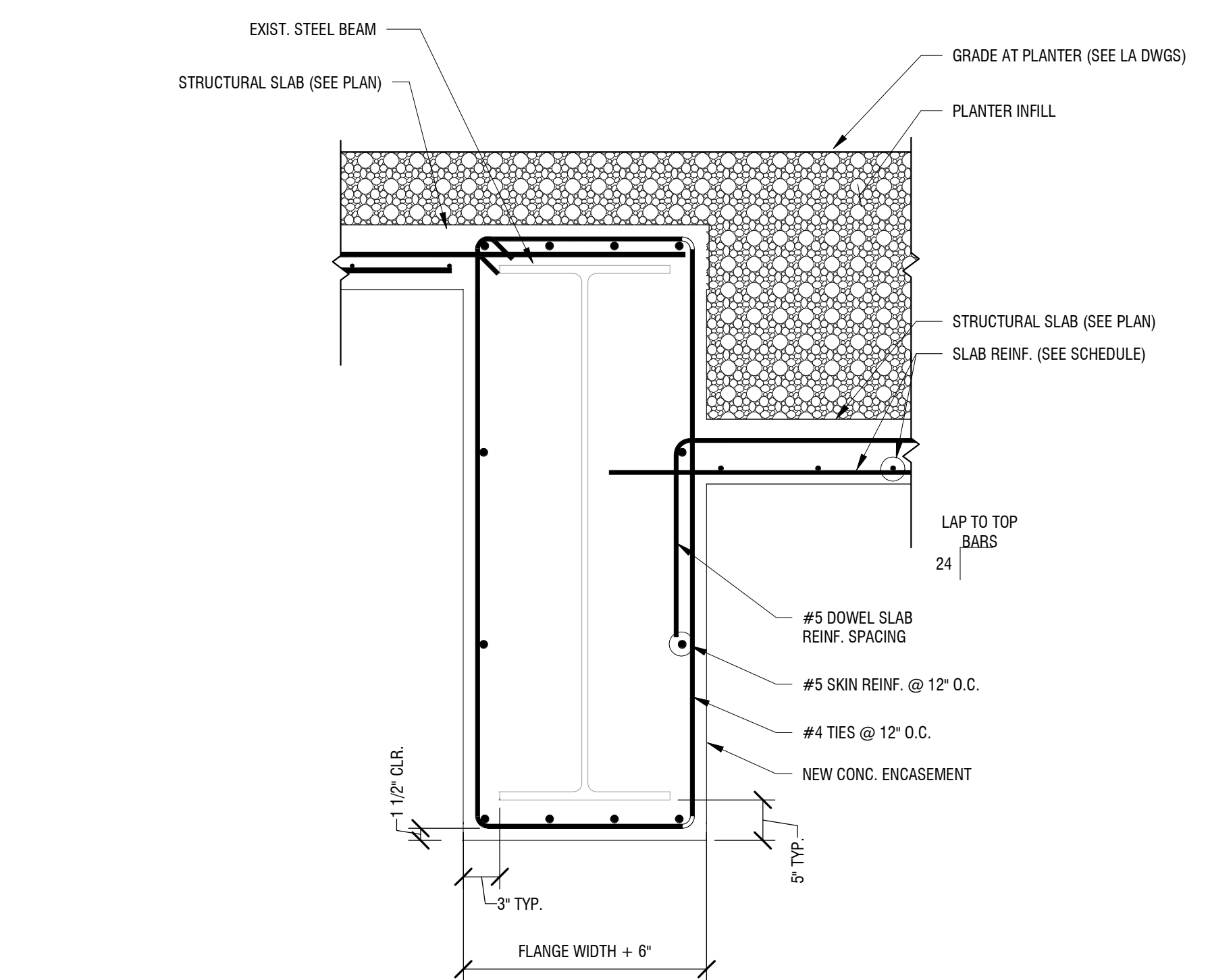
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S-402 3/4" = 1'-0"



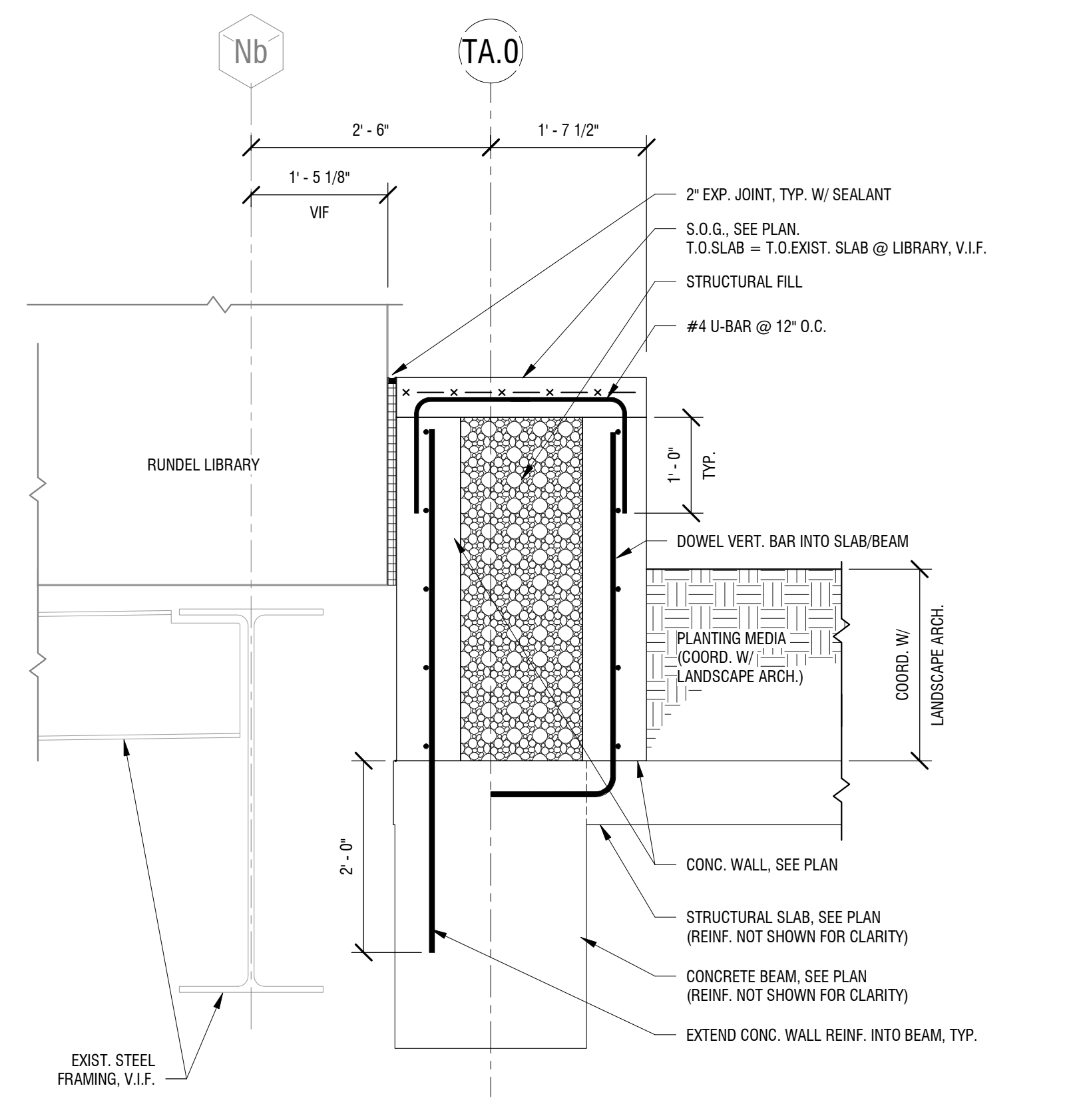
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S-402 3/4" = 1'-0"



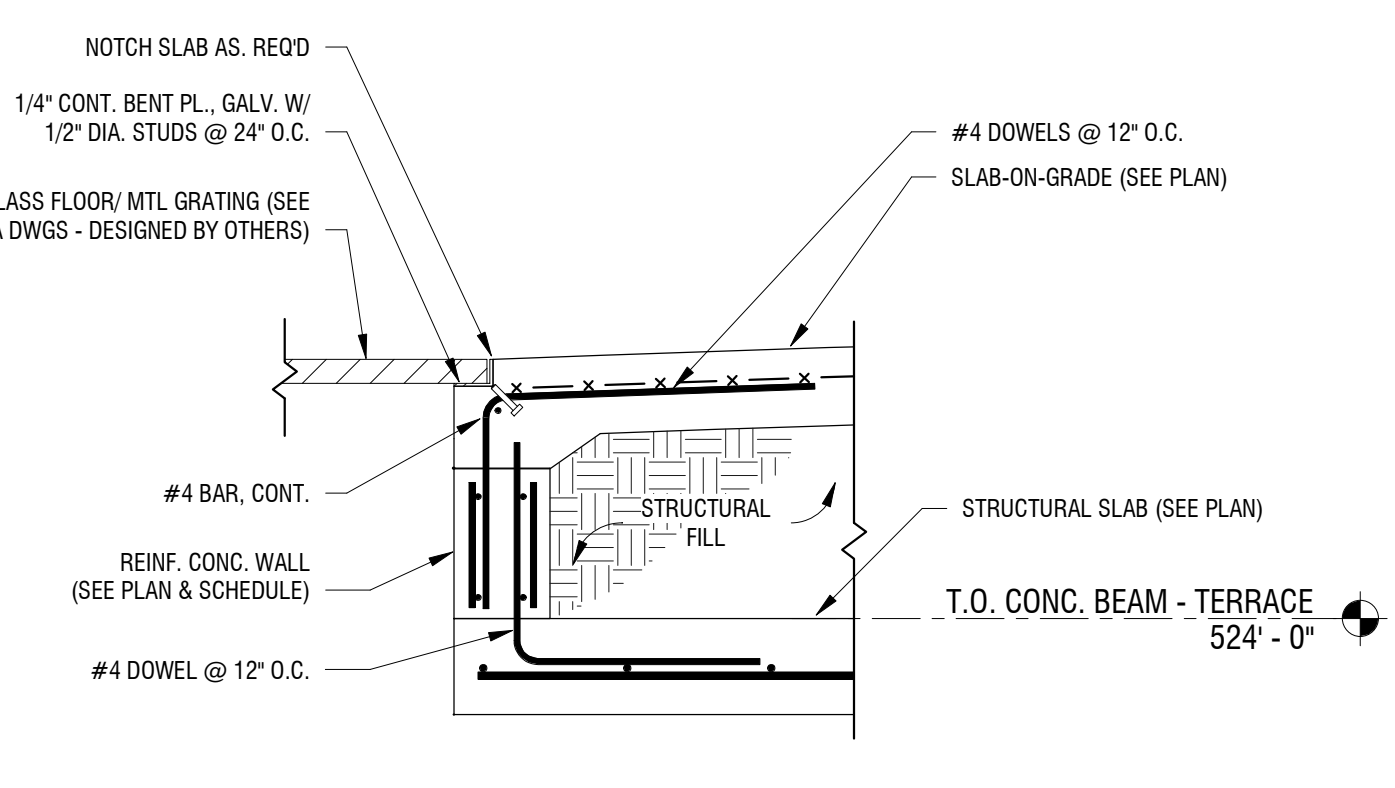
11  
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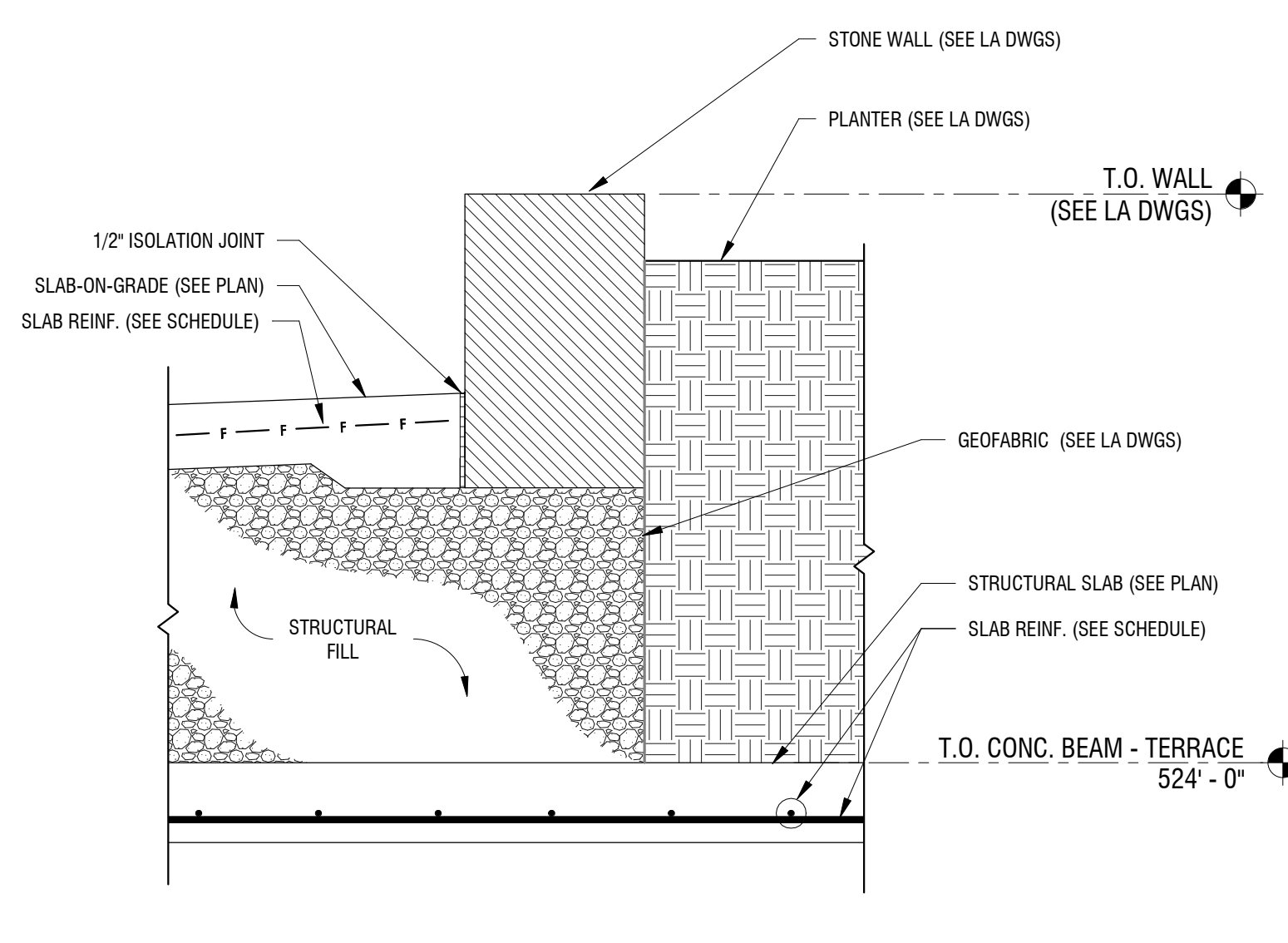
4  
S-402 3/4" = 1'-0"



1  
S-402 3/4" = 1'-0"



10  
S-402 NOT TO SCALE



7  
S-402 NOT TO SCALE

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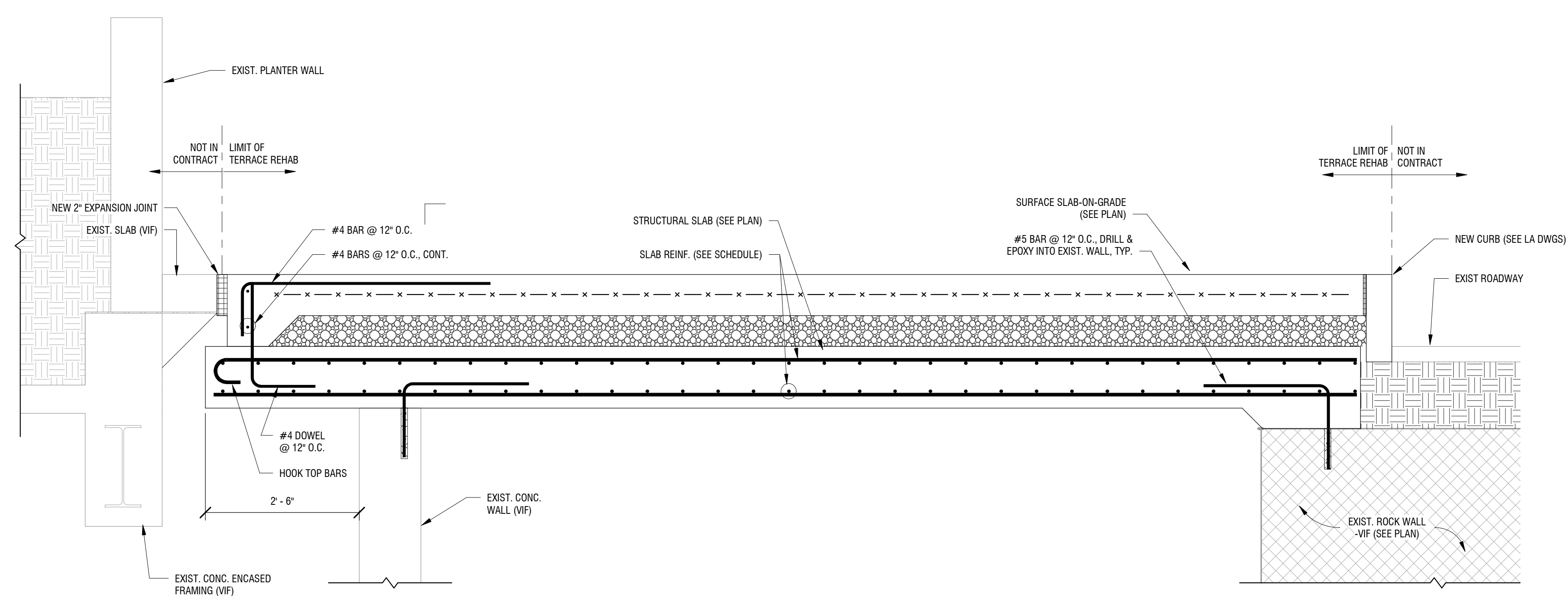
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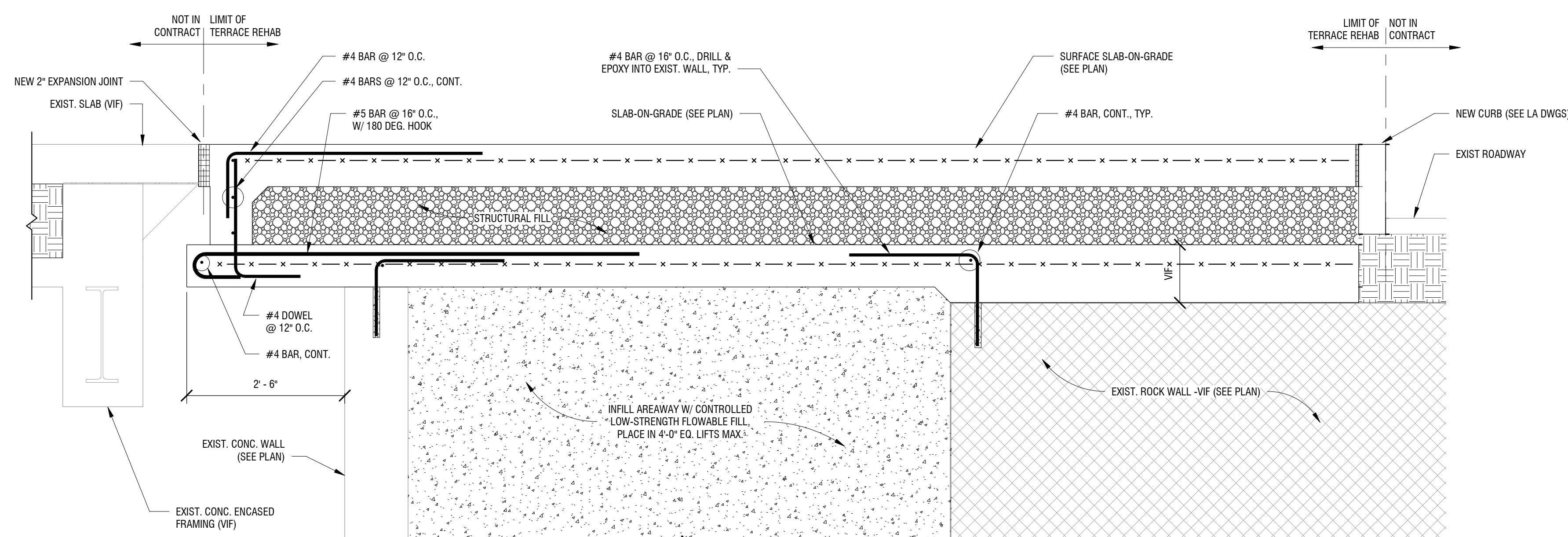
**FRAMING & SLAB SECTIONS**

DRAWING NUMBER:

**S-403**



**2**  
SECTION AT EAST SIDEWALK  
S-403  
3/4" = 1'-0"



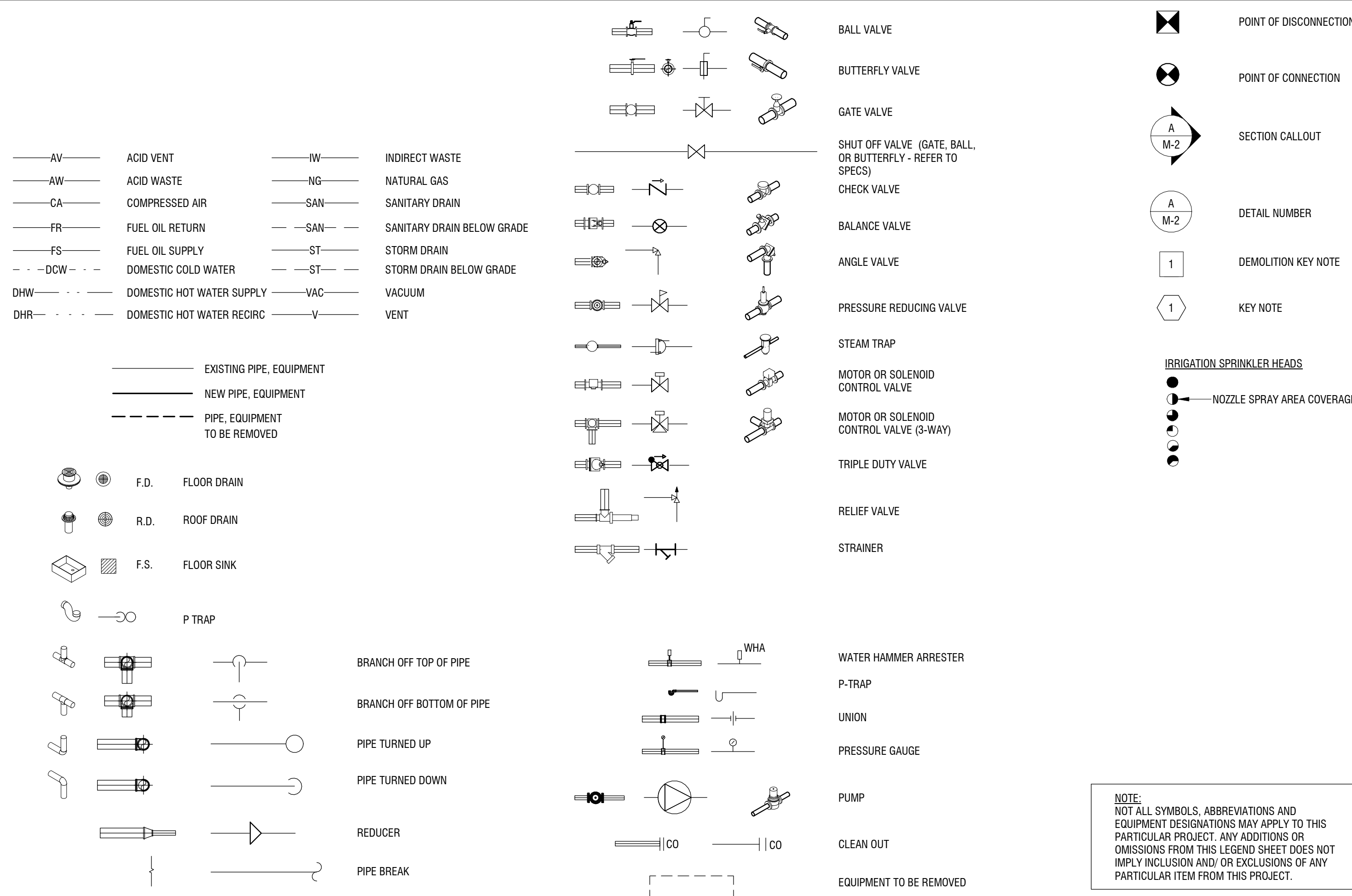
**1**  
SECTION AT EAST SIDEWALK  
S-403  
3/4" = 1'-0"

## GENERAL NOTES

### PLUMBING GENERAL NOTES

- DO NOT SHUT DOWN ANY PLUMBING, FIRE PROTECTION, NATURAL GAS, OR RELATED SYSTEMS WITHOUT BUILDING OWNERS PRIOR WRITTEN APPROVAL. FOLLOW ALL OWNER REQUIREMENTS AND SHUT DOWN PROCEDURES AS WELL AS ALL REQUIREMENTS OF THIS PROJECT.
- IF REQUIRED, PROVIDE SHUT DOWNS AND TIE-INS DURING OFF HOURS TO AVOID DISRUPTION OF BUILDING SYSTEMS. COORDINATE ALL SHUT DOWN REQUIREMENTS PRIOR TO SUBMITTING BID (INCLUDE ALL REQUIRED DURING OFF HOURS IN BID).
- PROVIDE ALL WORK IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES. OBTAIN ALL REQUIRED PERMITS.
- PROVIDE ALL REQUIRED EXCAVATION, BACKFILL AND COMPACTION FOR ALL UNDERGROUND WORK.
- FIELD VERIFY EXACT LOCATION, DEPTH, COMPOSITION AND CONDITION OF ALL PIPING, VALVES AND SYSTEMS AS REQUIRED FOR WORK OF THE CONTRACT.
- PROVIDE CUTTING, CORING AND PATCHING OF ALL WALLS, SLABS AND DECKS AS REQUIRED FOR WORK SHOWN. COORDINATE ALL WORK WITH OWNER AND GENERAL CONTRACTOR AND ALL TRADES.
- PROVIDE SCHEDULE 40 BLACK STEEL PIPE SLEEVES FOR ALL UNDERGROUND PIPING PASSING THROUGH OR UNDER FOOTINGS, WALLS, FOUNDATION WALLS, SLABS FLOORS AND/OR UNDERGROUND STRUCTURES. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- WHERE PIPING IS LOCATED OVER FOOTINGS AND/OR OTHER UNDERGROUND STRUCTURES, ROLL DOWN AS REQUIRED TO CONNECT TO SYSTEMS NOTED. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS.
- PITCH ALL SANITARY, WASTE AND STORM PIPING AS FOLLOWS: PIPING SMALLER THAN 3" PITCH AT 2 PERCENT (1/4" PER FOOT) MINIMUM. 3" AND LARGER, PITCH AT 1 PERCENT (1/8" PER FOOT) MINIMUM.
- CONNECT TO SITE PIPING OUTSIDE BUILDING AS SHOWN. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS. FIELD VERIFY EXACT LOCATION, DEPTH AND COMPOSITION OF SITE SERVICES AND COORDINATE ALL WORK WITH SITE CONTRACTOR.
- COORDINATE ALL VENT TERMINATIONS ABOVE ROOF WITH HVAC CONTRACTOR. ALL VENT TERMINATIONS ABOVE ROOF SHALL BE A MINIMUM 10'-0" AWAY FROM ANY HVAC OUTSIDE AIR INTAKE (ROOFTOP UNIT, LOUVER, ETC.).
- PROVIDE SINGLE HOSE BIBB WITH VACUUM BREAKER (HB) UNDER LAVATORY(S) IN ALL TOILET ROOMS WITH FLOOR DRAINS. ONE REQUIRED PER ROOM.
- REFER TO ARCHITECTURAL DRAWINGS AND THE PROJECT SPECIFICATIONS FOR ANY PROJECT PHASING REQUIREMENTS.
- THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PLUMBING CODE OF NEW YORK STATE AND LOCAL PLUMBING INSPECTOR.
- THE EXISTING PIPING INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZES.
- THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMATIC. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, RESROUTING, TIES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC.
- CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 5 DAYS IN ADVANCE.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.
- ALL WORK SHALL BE COORDINATED WITH THE EQUIPMENT VENDORS.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. CONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION OF THE NEW UNDERSLAB PIPING.
- ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE STATE AND LOCAL CODE REQUIREMENTS AND PER MANUFACTURER'S RECOMMENDATIONS.
- ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR.
- THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY STATE AND LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR.
- THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED IN ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT REQUIREMENTS.
- THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER STATE AND LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS.
- ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 25'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
- LEAD TESTING REQUIRED BY THIS CONTRACTOR UNDER NYS HEALTH DEPARTMENT REGULATION 10NYCRR SUBPART 67-4 (LEAD TESTING IN SCHOOL DRINKING WATER); THIS CONTRACTOR SHALL HAVE PRE-CONSTRUCTION AND POST-CONSTRUCTION WATER SAMPLES TAKEN AND ANALYZED BY A NYS DOH APPROVED ENVIRONMENTAL LABORATORY AT ALL AREAS OF THE WATER DISTRIBUTION SYSTEM WHERE PLUMBING FIXTURES AND SUPPLY FITTINGS ARE BEING INSTALLED UNDER THE PLUMBING CONTRACT THAT COULD POTENTIALLY BE USED FOR DRINKING AND/OR COOKING PURPOSES. THIS INCLUDES BUT IS NOT LIMITED TO WATER COOLERS, LAVATORIES, HAND SINKS, CLASSROOM SINKS AND BUBBLERS. UNDER THE DOH CODE A PASSING RESULT IS BELOW 15 PARTS PER BILLION (PPB) OR LESS. ANY PLUMBING WORK NOT PASSING THIS TEST SHALL BE REPLACED AT NO COST TO OWNER AND THE ABOVE POST CONSTRUCTION TESTING SHALL BE REPEATED UNTIL THE WORK PASSES.
- CONTRACTOR SHALL INSULATE ALL PLUMBING PIPING PER SPECIFICATION.

## DRAWING SYMBOLS



## APPLICABLE CODES

- BUILDING CODE OF NEW YORK STATE
- MECHANICAL CODE OF NEW YORK STATE
- FIRE CODE OF NEW YORK STATE
- PLUMBING CODE OF NEW YORK STATE
- ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
- NATIONAL ELECTRIC CODE
- NFPA 13- STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

## EQUIPMENT DESIGNATIONS

BT	BATH TUB	MS	MOP SINK
CO	CLEANOUT	ME	NON-FREEZE HOSE BIB
CS	CUP SINK	P	PUMP
CV	CONTROL VALVE	OS	OIL SEPARATOR
DF	DRINKING FOUNTAIN	S	SINK
DPDQ	DECK PLATE CLEANOUT	SA	SHOCK ABSORBER (WATER HAMMER)
DWH	DOMESTIC WATER HEATER	SE	SERVICE SINK
DWP	DOMESTIC WATER PUMP	SH	SHOWER
EJ	EXPANSION JOINT	SSM	SAFETY RELIEF VALVE
ET	EXPANSION TANK	SP	SUMP PUMP
EW	ELECTRIC WATER COOLER	SWP	SEWAGE PUMP
EWWS	EMERGENCY EYEWASH/SHOWER	TK	WATER TANK
FI	FILTER	UR	URINAL
HB	HOSE BIBB	WC	WATER CLOSET
KS	KITCHEN SINK	WLD	WALL CLEANOUT
LAV	LAVATORY	WS	WATER SOFTENER
M	METER		

**NOTE:**  
 SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

## ABBREVIATIONS

%	PERCENT	FA	FREE AREA	NIC	NOT IN CONTRACT
AC	ALTERNATING CURRENT	FB	FINISHED FLOOR	NO	NORMALLY OPEN
ADJ	ADJACENT	FL	FLOOR	NPT	NATIONAL PIPE TREAD
AFP	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	NRS	NON-RISING STEM
AFG	ABOVE FINISHED GRADE	PPM	FEET PER MINUTE	NTS	NOT TO SCALE
ALT	ALTERNATE	PFS	FEET PER SECOND	OC	ON CENTER
AMB	AMBIENT	FT	FOOT OR FEET	OD	OUTSIDE DIAMETER
AMP	AMPERE (AMP, AMPS)	FT	FOOT OR FEET	OSBY	OUTSIDE SCREEN AND YOK
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	GA	GAGE OR GAUGE	PC	PLUMBING CONTRACTOR
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	GAL	GALLONS	PLBS	PLUMBING
APPROX	APPROXIMATE (L)	GC	GENERAL CONTRACTOR	PH	PHASE (ELECTRICAL)
AVG	AVERAGE	GPM	GALLONS PER MINUTE	PRESS	PRESSURE
BFP	BACKFLOW PREVENTER	GRD	GALLONS PER DAY	PSF	POUNDS PER SQUARE FOOT
BHP	BRAKE HORSEPOWER	GPH	GALLONS PER HOUR	PSI	POUNDS PER SQUARE INCH
BLDG	BUILDING	HD	HEAD	PSIG	POUNDS PER SQUARE INCH
BO	BOTTOM OF	HC	MERCURY	PRV	PRESSURE REDUCING VALVE
BSMT	BASEMENT	HORIZ	HORIZONTAL	RCIRC	RECEIVER
BTU	BRITISH THERMAL UNIT	HP	HORSEPOWER	RCIRC	RE-CIRCULATE
BY	BALANCING VALVE	HPS	HIGH PRESSURE CONDENSATE	RHW	HOT WATER RE-CIRCULATION
CAP	CAPACITY	HPS	HIGH PRESSURE STEAM	RO	ROUGH OPENING
CL	CEILING	Hz	HEATING, VENTILATING, AND AIR CONDITIONING FREQUENCY	RPDA	REDUCED-PRESSURE DETECTOR ASSY.
CLR	CLEAR	IN	INCH	RPM	REVOLUTIONS PER MINUTE
CO	CLEANOUT or CARBON MONOXIDE	ID	DIAMETER, INSIDE	RPZ	REDUCED-PRESSURE ZONE
COL	COLUMN	IN	INCH	SCH	SQUARE CAPTURE HOOD
CONN	CONNECTION	INSUL	INSULATION	SPEC	SPECIFICATION
CONC	CONCRETE	INT	INTERIOR	SPLY	SUPPLY
CONT	CONTINUOUS	IPS	IRON PIPE SIZE	SQ	SQUARE
CU FT	CUBIC FEET	INV	INVERT	SQ FT	SQUARE FOOT (FEET)
CV	VALVE COEFFICIENT	KW	KILOWATT	SQ IN	SQUARE INCH (INCHES)
CCDA	DOUBLE CHECK DETECTOR ASSEMBLY	KWH	KILOWATT HOUR	ST	STORM WATER
DOV	DETECTOR CHECK VALVE	LBS	POUNDS	STD	STANDARD
DCW	DOMESTIC COLD WATER	LF	LINEAR FEET	SUCT	SUCTION
DEM	DEMOLISH or DEMOLITION	LG	LENGTH	TSTAT	THERMOSTAT
DHW	DOMESTIC HOT WATER	LOC	LOCATION	TBD	TO BE DETERMINED
DIA	DIAMETER	LPC	LOW PRESSURE CONDENSATE	TC	TEMPERATURE CONTROL CONTRACTOR
DIP	DUCTILE IRON PIPE	LPS	LOW PRESSURE STEAM	TD	TEMPERATURE DIFFERENCE
DWH	DOMESTIC WATER HEATER	LRA	LOCKED ROTOR AMPS	TEMP	TEMPERATURE
DWW	DRAIN, WASTE, & VENT	LWT	LEAVING WATER TEMPERATURE	TMV	THERMOSTATIC MIXING VALVE
DWG	DRAWING	MATL	MATERIAL	TO	TOP OF
(E)	EXISTING	MAX	MAXIMUM	TYP	TYPICAL
ENGR	ENGINEER	MBH	BTU PER HOUR (THOUSAND)	V	VOLT
EQ	EQUAL	MECH	MECHANICAL	VAC	VACUUM
EST	ESTIMATED	MISC	MISCELLANEOUS	VAR	VARIABLE
ETR	EXISTING TO REMAIN	MFG	MANUFACTURER	VEL	VELOCITY
EW	ELECTRIC WATER HEATER	MIN	MINIMUM	VF	VERT IN FIELD
EWT	ENTERING WATER TEMPERATURE	MISC	MISCELLANEOUS	VOL	VOLUME
EX	EXISTING	MOC	MAXIMUM OVERCURRENT PROTECTION	W	WASTE
EXST	EXISTING	MPC	MEDIUM PRESSURE CONDENSATE	W/O	WITH
EXP	EXPANSION	MPS	MEDIUM PRESSURE STEAM	W/O	WITH OUT
EXT	EXTERIOR	MTG	MOUNTING	WCD	WALL CLEANOUT
F	DEGREES FAHRENHEIT	NA	NOT APPLICABLE	WHA	WATER HAMMER ARRESTER
		NC	NORMALLY CLOSED	WM	WATER METER
				WPD	WATER PRESSURE DROP
				WT	WEIGHT
				WWP	WORKING WATER PRESSURE

**NOTE:**  
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NOT FOR CONSTRUCTION

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NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2170391

DRAWN BY: MJB

REVIEWED BY: DWM

ISSUED FOR: 35% PRELIMINARY DESIGN

DATE: JULY 2018

DRAWING NAME:

## PLUMBING LEGEND SHEET

DRAWING NUMBER:

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**CITY OF ROCHESTER**  
414 ANDREWS ST.  
ROCHESTER, NY 14604

**RUNDEL LIBRARY PHASE IV**  
114 SOUTH AVE.  
ROCHESTER, NY 14614

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: MJB		
REVIEWED BY: DWM		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

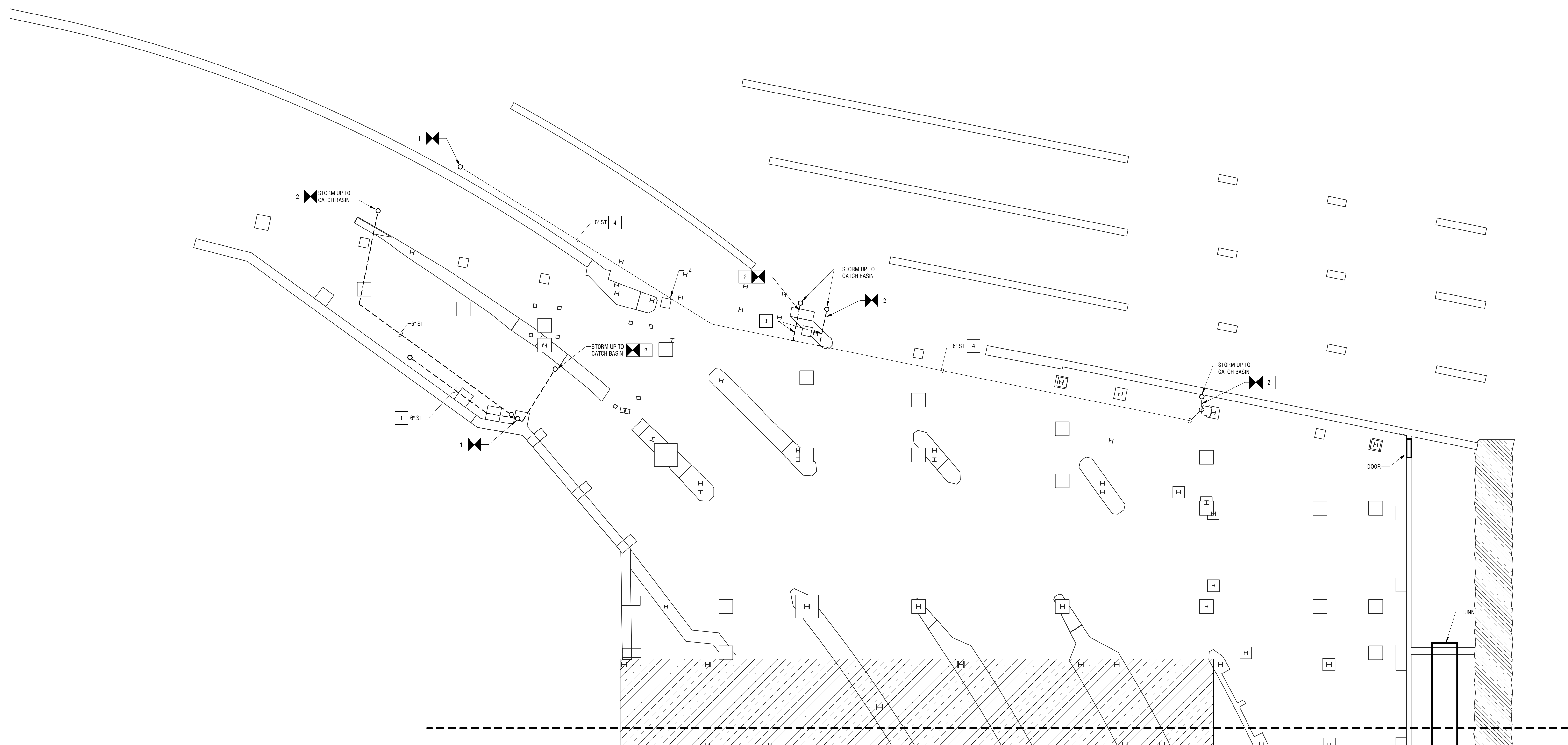
**UNDERGROUND NORTH TERRACE PLUMBING DEMOLITION PLAN**

DRAWING NUMBER:

**P-010**

**DEMOLITION KEYNOTES**

1	DISCONNECT STORM PIPE AT POINT INDICATED AND REMOVE AS NOTED.
2	DISCONNECT STORM PIPE AT POINT INDICATED AND DROP NEW PIPING.
3	REMOVE PIPING AS NOTED INCLUSIVE OF ALL ASSOCIATED ACCESSORIES.
4	EXISTING STORM TO REMAIN.



**1 UNDERGROUND NORTH TERRACE PLUMBING DEMOLITION PLAN**  
P-010 1" = 10'-0"

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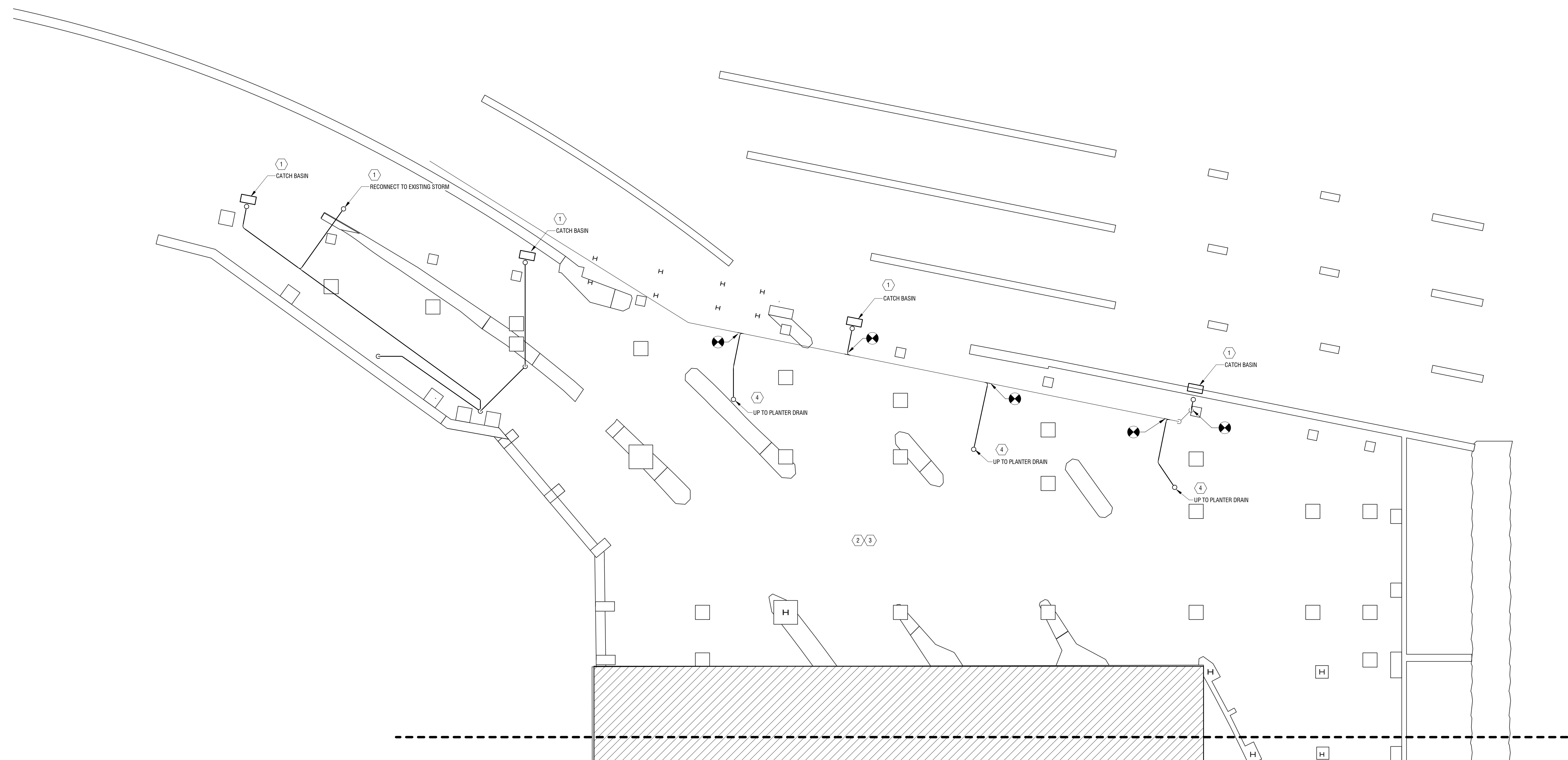
**UNDERGROUND NORTH TERRACE PLUMBING PLAN**

DRAWING NUMBER:

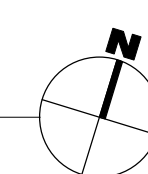
**P-100**

**KEYNOTES**

- 1 RECONNECT EXISTING CATCH BASINS AND RUN PIPING AS SHOWN.
- 2 PROVIDE STORM PIPING TO ALL DECK AND UNDER DECK DRAINS.
- 3 PROVIDE 3/4" DOMESTIC WATER TO PLANTER IRRIGATION SPRINKLERS AND RUN SUPPLY PIPING BACK TO RUNDEL LIBRARY.
- 4 PROVIDE STORM PIPING UP TO PLANTER DRAINS.



1 UNDERGROUND NORTH TERRACE PLUMBING PLAN  
P-100 1" = 10'-0"



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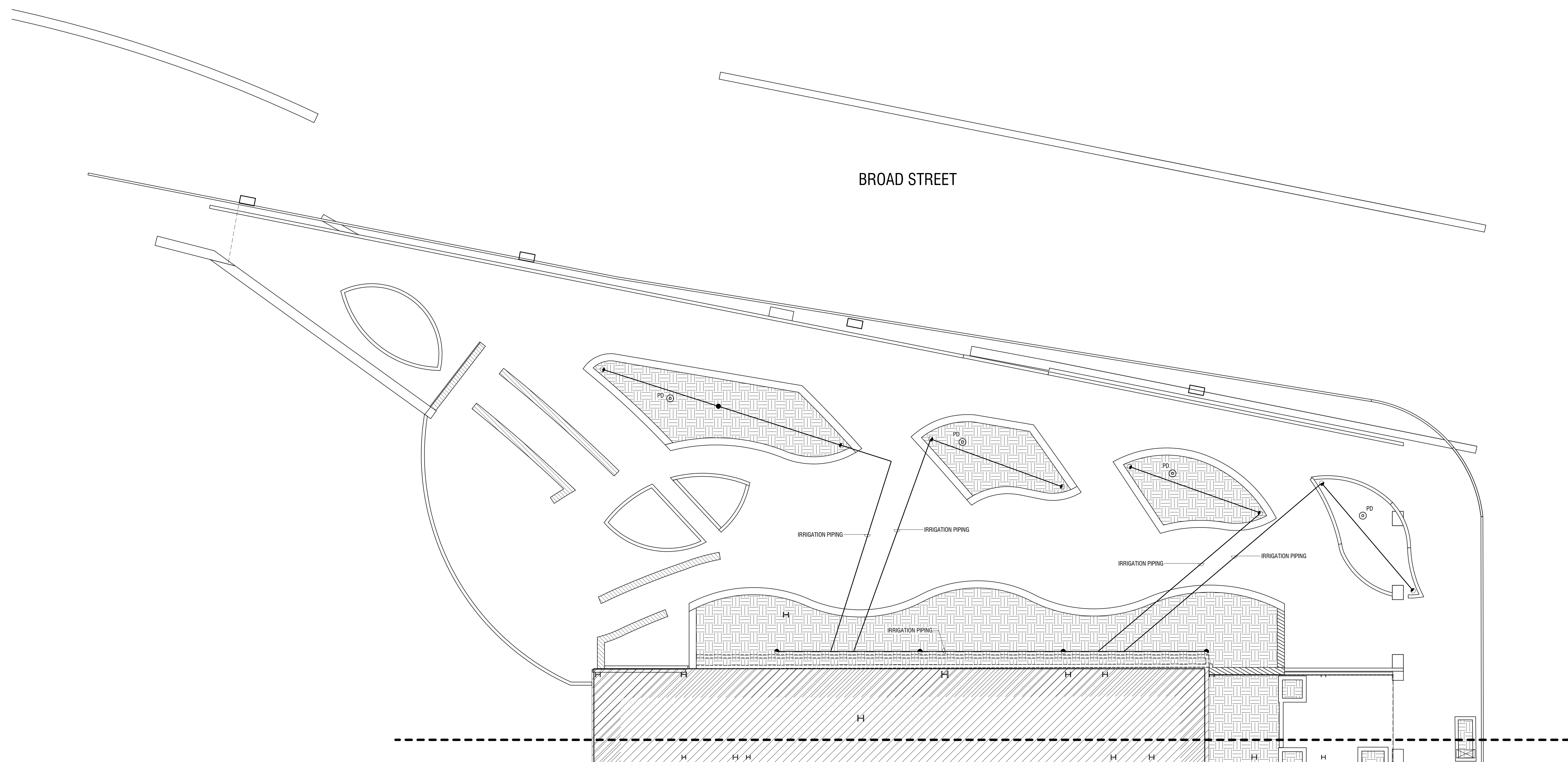
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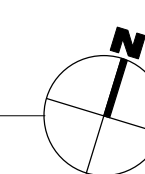
**GROUND FLOOR NORTH TERRACE PLUMBING PLAN**

DRAWING NUMBER:

**P-110**



1 GROUND FLOOR NORTH TERRACE PLUMBING PLAN  
P-110 1" = 10'-0"





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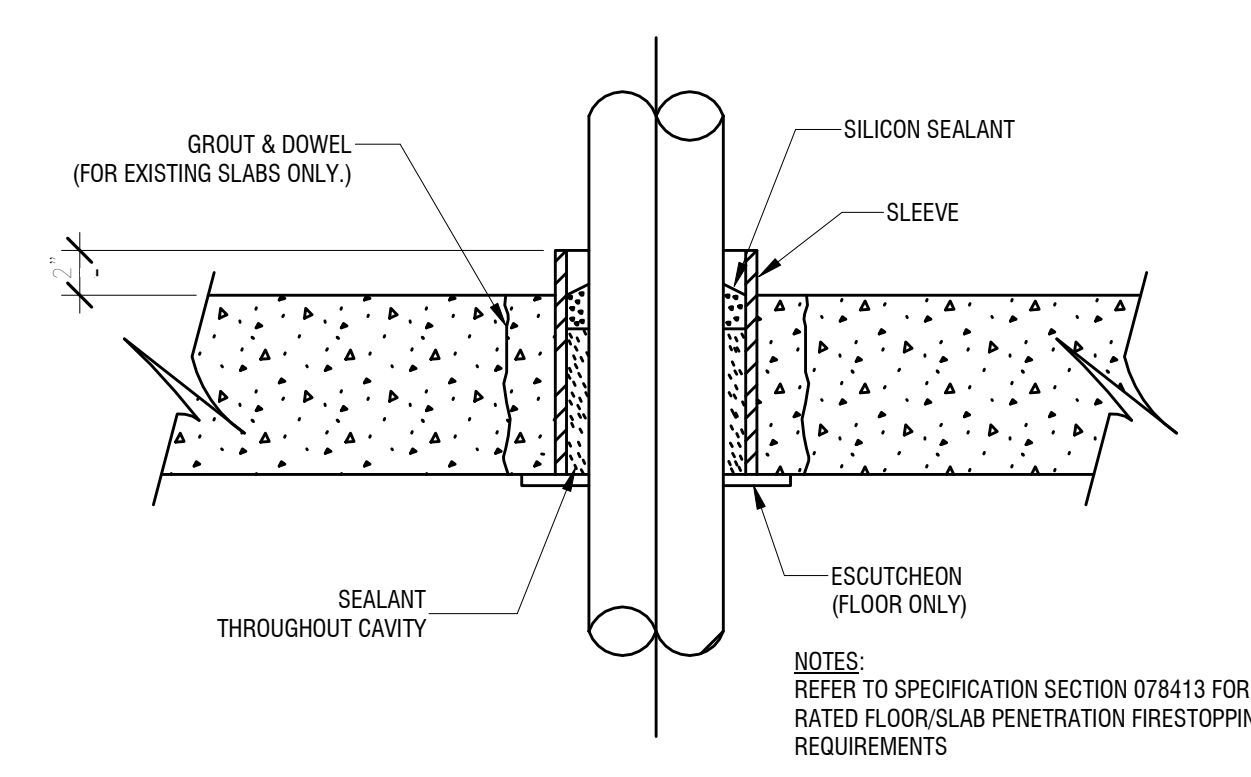
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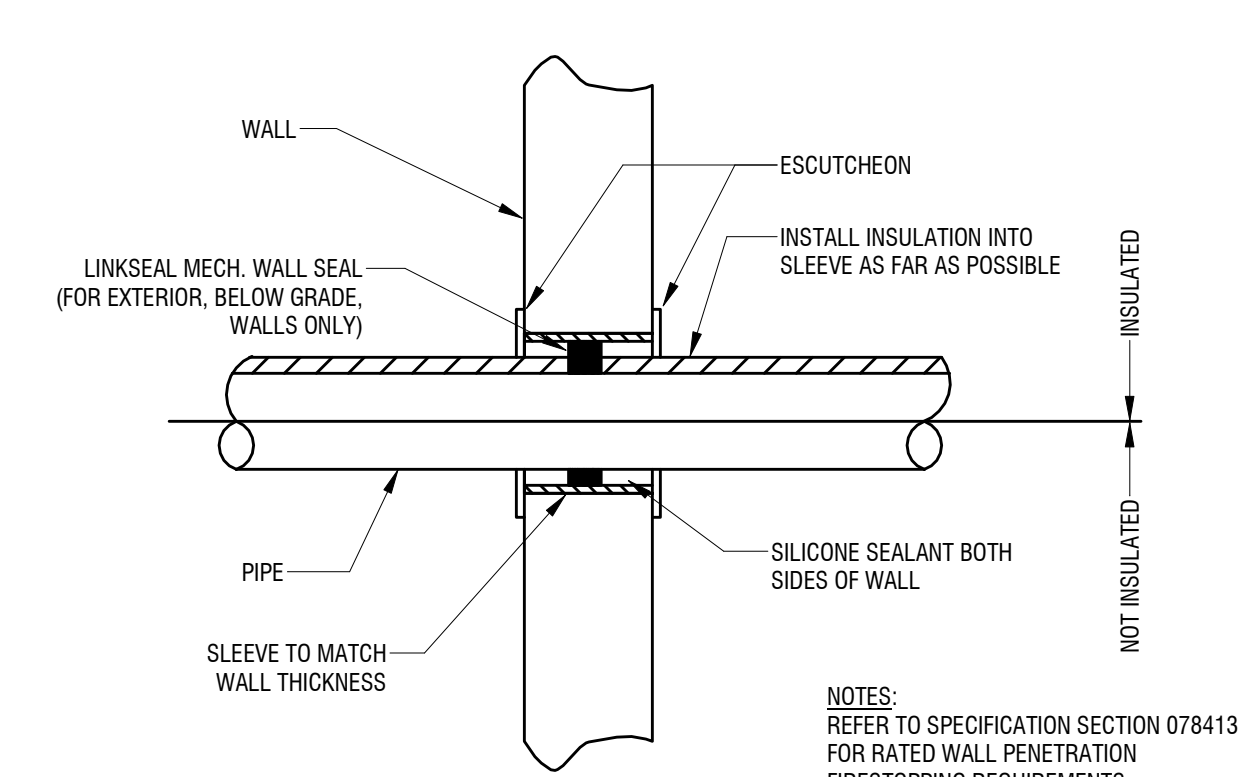
**PLUMBING DETAILS**

DRAWING NUMBER:

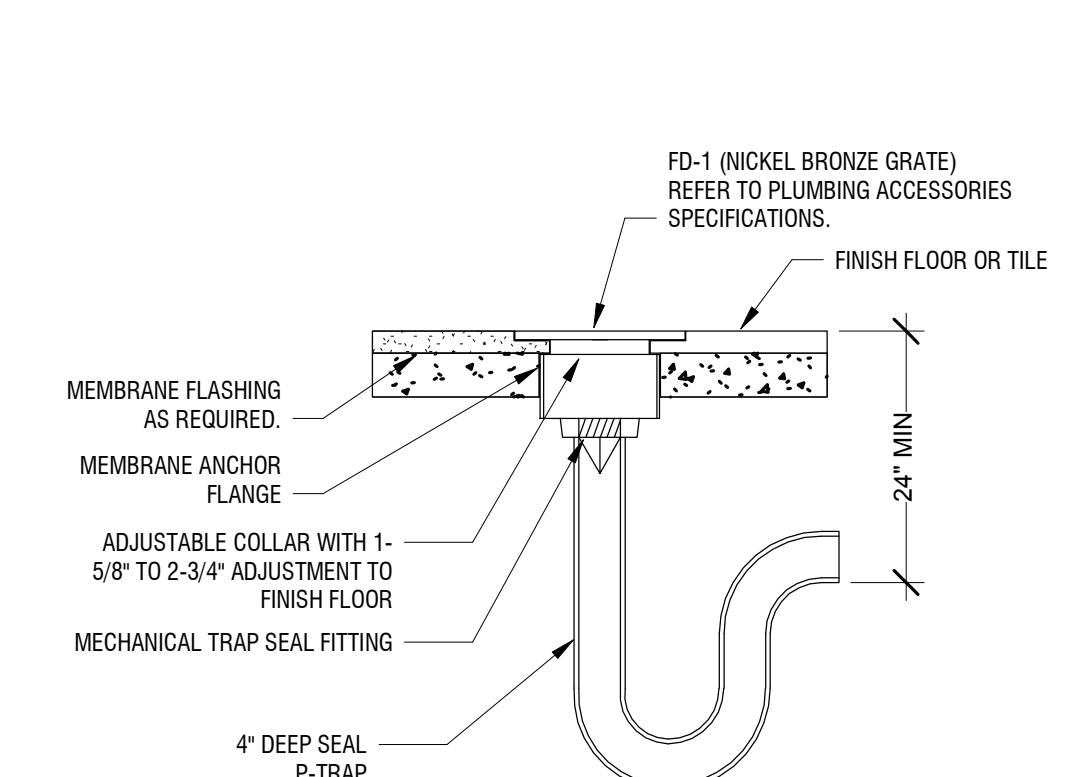
**P-501**



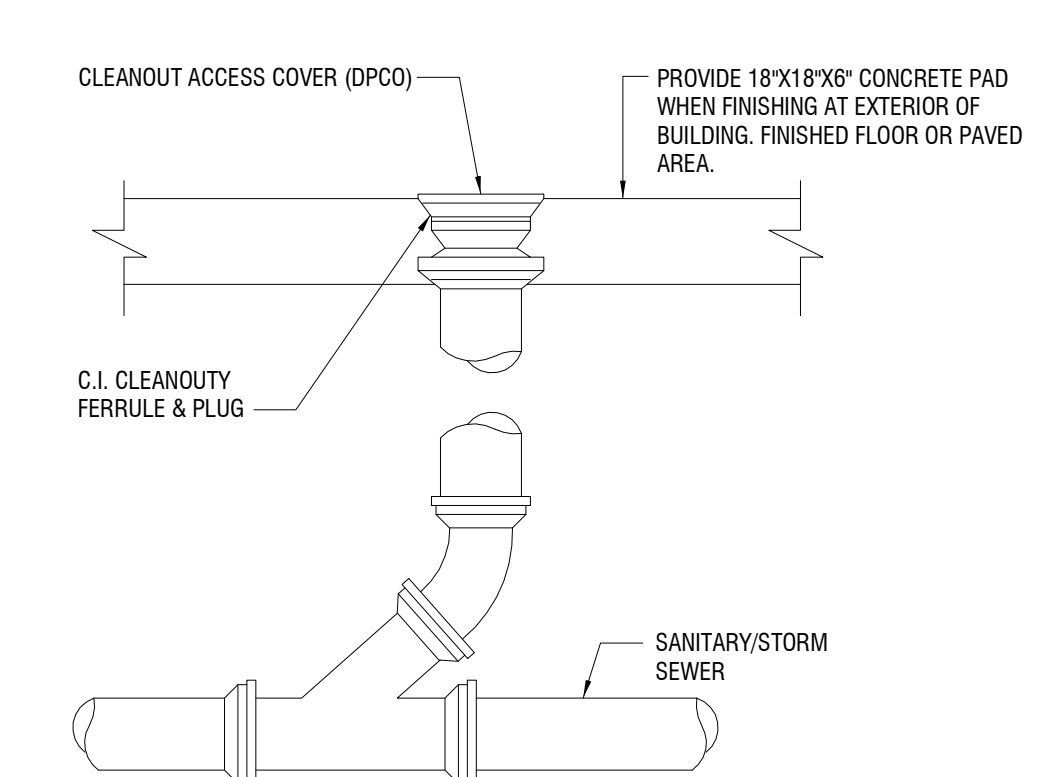
**1 PIPE THRU FLOOR/SLAB DETAIL**  
P-501 NOT TO SCALE



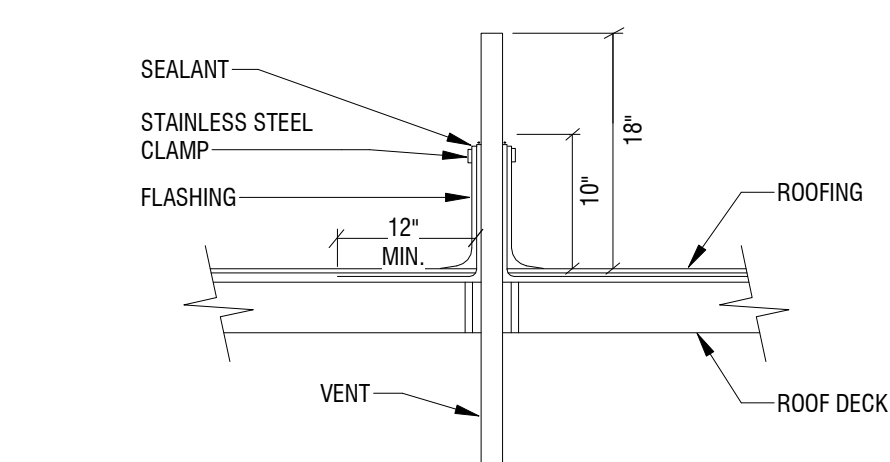
**2 PIPE THRU NON-RATED WALL DETAIL**  
P-501 NOT TO SCALE



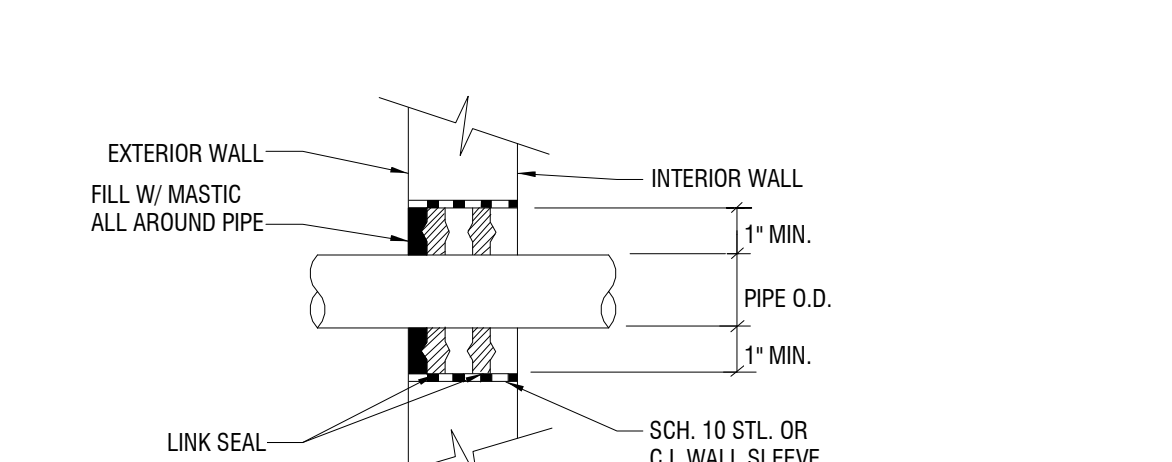
**3 FLOOR DRAIN DETAIL**  
P-501 NOT TO SCALE



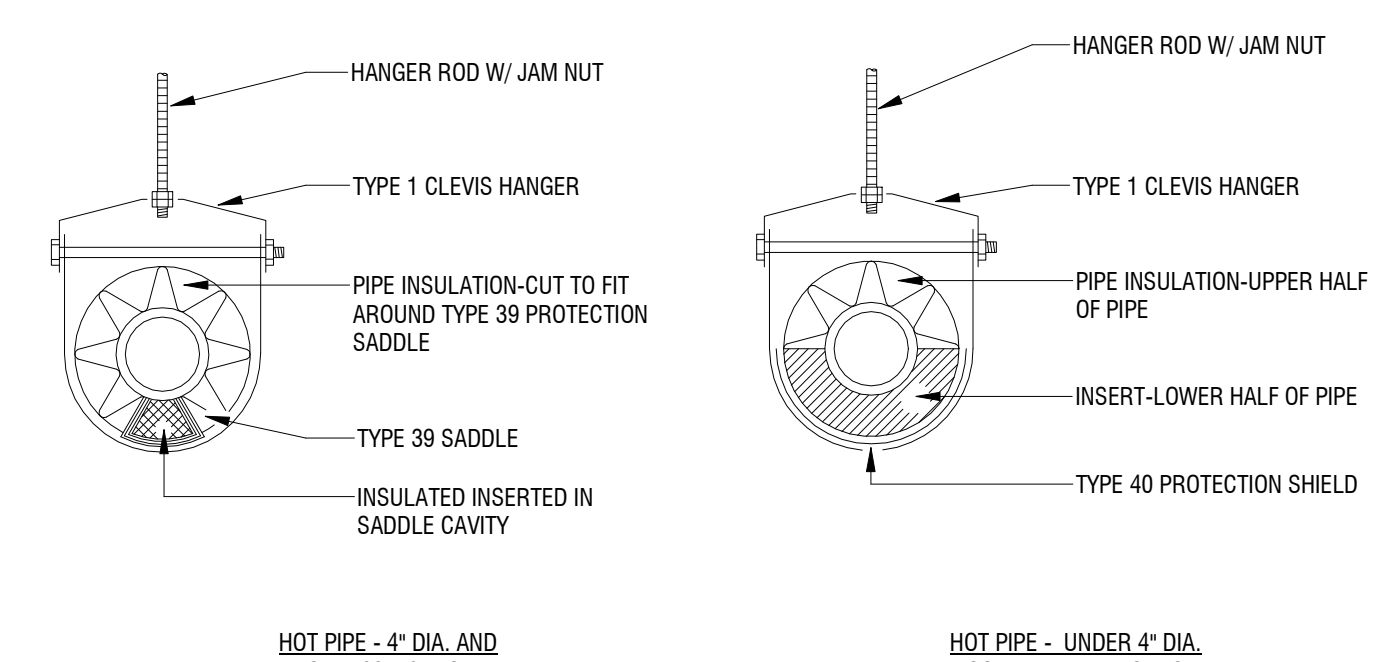
**4 DECKPLATE CLEANOUT**  
P-501 NOT TO SCALE



**5 VENT THROUGH ROOF DETAIL**  
P-501 NOT TO SCALE



**6 EXTERIOR/FOUNDATION WALL SLEEVE DETAIL**  
P-501 NOT TO SCALE



**7 PIPE HANGER WITH INSULATION DETAIL**  
P-501 NOT TO SCALE

GENERAL NOTES

PIPING GENERAL NOTES

- COORDINATE HVAC PIPING INSTALLATION WITH DUCTWORK, STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.
- PROVIDE ALL PIPING PENETRATIONS THROUGH WALLS, FLOORS AND DECKS REQUIRED WHERE SHOWN. SEAL ALL EXTERIOR WALL PENETRATIONS WEATHER TIGHT.
- ALL PIPING PASSING THROUGH WALLS TO BE FIRE STOPPED AND SEALED AROUND PERIMETER WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.
- INSTALL VAV BOX REHEAT PIPING AND ASSOCIATED VALVES/COMPONENTS SUCH THAT CONTROL BOX HAS A MINIMUM 2'-0" CLEARANCE FOR ACCESS.
- HVAC CONTRACTOR IS RESPONSIBLE FOR DRAINING, FILLING WITH WATER/CHEMICALS, AND AIR REMOVAL ASSOCIATED WITH ALL PIPING WORK.
- THE ABOVE GENERAL NOTES APPLY TO ALL HVAC CONSTRUCTION DOCUMENT DRAWINGS.

CA	COMPRESSED AIR	HPLR	HEAT PUMP LOOP RETURN
CD	CONDENSATE DRAIN	HPLS	HEAT PUMP LOOP SUPPLY
GHR	GLYCOL HOT WATER RETURN	HPC	HIGH PRESSURE CONDENSATE
GHS	GLYCOL HOT WATER SUPPLY	HPS	HIGH PRESSURE STEAM
CHWR	CHILLED WATER RETURN	MPC	MEDIUM PRESSURE CONDENSATE
CHWS	CHILLED WATER SUPPLY	MPS	MEDIUM PRESSURE STEAM
C	CONDENSATE	LPC	LOW PRESSURE CONDENSATE
CTR	COOLING TOWER RETURN	LPS	LOW PRESSURE STEAM
CTS	COOLING TOWER SUPPLY	HWR	HOT WATER RETURN
		HWS	HOT WATER SUPPLY
		MU	MAKE-UP WATER
DN	DIRECTION OF PITCH	NG	NATURAL GAS
RHL	REFRIGERANT H/L PRESSURE	PC	PUMPED CONDENSATE
RL	REFRIGERANT LIQUID	VAC	VACUUM
RS	REFRIGERANT SUCTION	IW	INDIRECT WASTE
SV	STEAM VENT		

	EXISTING DUCTWORK, PIPE, EQUIPMENT
	NEW DUCTWORK, PIPE, EQUIPMENT
	DUCTWORK, PIPE, EQUIPMENT TO BE REMOVED

	PIPE TURNED UP
	PIPE TURNED DOWN
	BRANCH OFF TOP OF PIPE
	BRANCH OFF BOTTOM OF PIPE
	REDUCER
	PIPE BREAK

DRAWING SYMBOLS

	BALL VALVE		REMOVE TO THIS POINT		INSULATED DUCT (DIM. IS INTERNAL)
	BUTTERFLY VALVE		NEW CONNECTION TO EXISTING		MITERED ELBOW W/ TURNING VANES
	GATE VALVE		SECTION CALLOUT		WALL OR DUCT MOUNTED SUPPLY GRILLE
	SHUT OFF VALVE (GATE, BALL OR BUTTERFLY - REFER TO SPECS)		DETAIL NUMBER		WALL OR DUCT MOUNTED RETURN OR EXHAUST GRILLE
	CHECK VALVE		DEMOLITION KEYNOTE		FIRE DAMPER
	BALANCE VALVE		KEYNOTE		ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT
	ANGLE VALVE		RETURN AIR		SMOKE DAMPER
	PRESSURE REDUCING VALVE		SUPPLY AIR		ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT
	STEAM TRAP		DUCT (DIMENSIONS SHOWN IN DUCT, DIMENSIONS IN INCHES)		MOTOR OPERATED DAMPER
	MOTOR OR SOLENOID CONTROL VALVE		DUCT (DIMENSIONS SHOWN BY LEADER, DIMENSIONS IN INCHES)		THERMOSTAT
	MOTOR OR SOLENOID CONTROL VALVE (3-WAY)		FLEX DUCT		SENSOR
	TRIPLE DUTY VALVE		DUCT SECTION - SUPPLY AIR		HUMIDISTAT
	RELIEF VALVE		DUCT SECTION - EXHAUST AIR		CARBON DIOXIDE SENSOR
	STRAINER		DUCT SECTION - RETURN AIR		EXHAUST GRILLE
	UNION		VOLUME DAMPER		SUPPLY DIFFUSER
	PRESSURE GAUGE		14" ROUND DUCT		RETURN GRILLE
	PUMP		18" x 8" FLAT OVAL DUCT		REGISTER OR GRILLE - TOP NUMBER REPRESENTS TAG, SEE SCHEDULE; BOTTOM NUMBER REPRESENTS CFM.
	EQUIPMENT TO BE REMOVED		VRF FAN COIL CASSETTE UNIT		DIFFUSER - LETTER REPRESENTS TAG, SEE SCHEDULE; NUMBER REPRESENTS CFM.

APPLICABLE CODES

EQUIPMENT DESIGNATIONS

ABBREVIATIONS

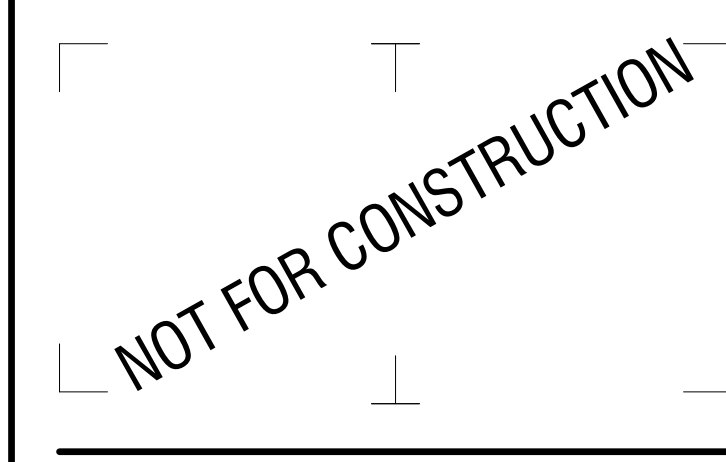
- BUILDING CODE OF NEW YORK STATE
- ENERGY CODE OF NEW YORK STATE
- MECHANICAL CODE OF NEW YORK STATE
- FIRE CODE OF NEW YORK STATE
- PLUMBING CODE OF NEW YORK STATE
- ENERGY CONSERVATION CODE OF NEW YORK STATE
- ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CARBONAS A117.1
- NATIONAL ELECTRIC CODE
- NATIONAL FIRE CODE NFPA 13

ACU	AIR CONDITIONING UNIT	HC	HEATING COIL
AHU	AIR HANDLING UNIT	HP	HEAT PUMP
AD	ACCESS DOOR	HU	HUMIDIFIER
AS	AIR SEPARATOR	HWP	HOT WATER PUMP
BDD	BACK DRAFT DAMPER	HX	HEAT EXCHANGER
B	BOILER	L	LOUVER
CA	AIR COMPRESSOR	MAU	MAKE UP AIR UNITS
CAV	CONSTANT AIR VOLUME BOX	MD	MOTORIZED DAMPER
CC	COOLING COIL	P	PUMP
CFE	CHEMICAL FEED PUMP	BSMT	BASEMENT
CH	CHILLER	PHC	PREHEAT COIL
CHP	CHILLED WATER PUMP	PPU	PUMPING PACKAGED UNIT
CP	CONDENSATE PUMP	PRG	GAS PRESSURE REGULATOR
CRAC	COMPUTER ROOM UNIT	PRV	PRESSURE REDUCING VALVE
CRU	CONDENSATE RETURN UNIT	R	REGISTER
CT	COOLING TOWER	RCE	RADIANT CEILING PANEL
CU	CONDENSING UNIT	RTU	ROOF TOP UNIT
CUH	CABINET UNIT HEATER	UH	UNIT HEATER
CV	CONTROL VALVE	UV	UNIT VENTILATOR
DHW	DOMESTIC WATER HEATER	VAV	VARIABLE AIR VOLUME BOX
EE	EXHAUST FAN	VD	VOLUME DAMPER
ET	EXPANSION TANK	VED	VARIABLE SPEED DRIVE
EQU	FAN COIL UNIT	WS	WATER SOFTENER
ET	FINNED TUBE		

%	PERCENT	FA	FREE AREA	NIC	NOT IN CONTRACT
AC	ALTERNATING CURRENT	FIN	FINISHED	NO	NORMALLY OPEN
ADJ	ADJACENT	FL	FLOOR	NPT	NATIONAL PIPE TREAD
AFP	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	NRS	NON-RISING STEM
AFG	ABOVE FINISHED GRADE	PPM	FEET PER MINUTE	NTS	NOT TO SCALE
ALT	ALTERNATE	FPS	FEET PER SECOND	OC	ON CENTER
AMB	AMBIENT	FOF	FOOT OR FEET	OD	OUTSIDE DIAMETER
AMP	AMPERE (AMP/AMPS)	FUT	FUTURE	OSKY	OUTSIDE SCREW AND YOKE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	GA	GAGE OR GAUGE	PC	PLUMBING CONTRACTOR
APPROX	APPROXIMATE (LY)	GAL	GALLONS	PCB	PLUMBING
AVG	AVERAGE	GC	GENERAL CONTRACTOR	PH	PHASE (ELECTRICAL)
BFP	BACKFLOW PREVENTER	GPM	GALLONS PER MINUTE	PRESS	PRESSURE
BHP	BRAKE HORSEPOWER	GPD	GALLONS PER DAY	PSF	POUNDS PER SQUARE FOOT
BLDG	BUILDING	GPH	GALLONS PER HOUR	PSI	POUNDS PER SQUARE INCH
BO	BOTTOM OF	HD	HEAD	PSIG	PSI GAUGE
BSMT	BASEMENT	HG	MERCURY	PRV	PRESSURE REDUCING VALVE
BTU	BRITISH THERMAL UNIT	HORIZ	HORIZONTAL	RCVR	RECEIVER
BY	BALANCING VALVE	HP	HORSEPOWER	RECIRC	RECIRCULATE
CAP	CAPACITY	HPC	HIGH PRESSURE CONDENSATE	RHW	HOT WATER RE-CIRCULATION
CIP	CAST IRON PIPE	HPS	HIGH PRESSURE STEAM	RO	ROUGH OPENING
CLG	CEILING	HR	HOUR	RPDA	REDUCED-PRESSURE DETECTOR ASSY.
CLR	CLEAR	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	RPD	REVOLUTIONS PER MINUTE
CO	CLEANOUT or CARBON MONOXIDE	HZ	FREQUENCY	RPZ	REDUCED-PRESSURE ZONE
COLM	COLLUMN	ID	ID DIAMETER, INSIDE	SCH	STEAM CAPTURE HOOD
CON	CONNECTION	IN	INCH	SPEC	SPECIFICATION
CONC	CONCRETE	INSUL	INSULATION	SPLY	SUPPLY
COND	CONDENSATE	INT	INTERIOR	SQ	SQUARE
CONT	CONTINUOUS	IPS	IRON PIPE SIZE	SQ FT	SQUARE FOOT (FEET)
CU FT	CUBIC FEET	INV	INVERT	SQ IN	SQUARE INCH (INCHES)
CV	VALVE FLOW COEFFICIENT	KW	KILOWATT	STD	STANDARD
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	KWH	KILOWATT HOUR	SUCT	SUCTION
DCV	DETECTOR CHECK VALVE	LBS	POUNDS	TSTAT	THERMOSTAT
DCHW	DOMESTIC COLD WATER	LF	LINEAR FEET	TBD	TO BE DETERMINED
DEMO	DEMOLISH or DEMOLITION	LG	LENGTH	TC	TEMPERATURE CONTROL CONTRACTOR
DHW	DOMESTIC HOT WATER	LOC	LOCATION	TD	TEMPERATURE DIFFERENCE
DIA	DIAMETER	LPC	LOW PRESSURE CONDENSATE	TEMP	TEMPERATURE
DIP	DUCTILE IRON PIPE	LPS	LOW PRESSURE STEAM	TMV	THERMOSTATIC MIXING VALVE
DWH	DOMESTIC WATER HEATER	LRA	LOCKED ROTOR AMPS	TO	TOP OF
DWG	DRAIN, WASTE, & VENT	LWT	LEAVING WATER TEMPERATURE	TRP	TYPICAL
DWG	DRAWING	MATL	MATERIAL	V	VOLT
(E)	EXISTING	MAX	MAXIMUM	VAC	VACUUM
ENGR	ENGINEER	MBH	BTU PER HOUR (THOUSAND)	VAR	VARIABLE
EQ	EQUAL	MECH	MECHANICAL	VEL	VELOCITY
EST	ESTIMATED	MFG	MANUFACTURER	VF	VERIFY IN FIELD
ETR	EXISTING TO REMAIN	MH	MINIMUM	VOL	VOLUME
EW	ENTERING WATER TEMPERATURE	MISC	MISCELLANEOUS	W	WATT
EW	EXISTING	MOP	MAXIMUM OVERCURRENT PROTECTION	W/	WITH
EX	EXISTING	MPC	MEDIUM PRESSURE CONDENSATE	W/O	WITH OUT
EXIST	EXISTING	MPS	MEDIUM PRESSURE STEAM	WCO	WALL CLEANOUT
EXP	EXPANSION	MTG	MOUNTING	WHA	WATER HAMMER ARRESTER
EXT	EXTERIOR	NA	NOT APPLICABLE	WM	WATER METER
'F	DEGREES FAHRENHEIT	NC	NORMALLY CLOSED	WPD	WATER PRESSURE DROP
				WT	WEIGHT
				WPP	WORKING WATER PRESSURE

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DRAWING NAME:		

**MECHANICAL LEGEND SHEET**

DRAWING NUMBER:

NOT FOR CONSTRUCTION

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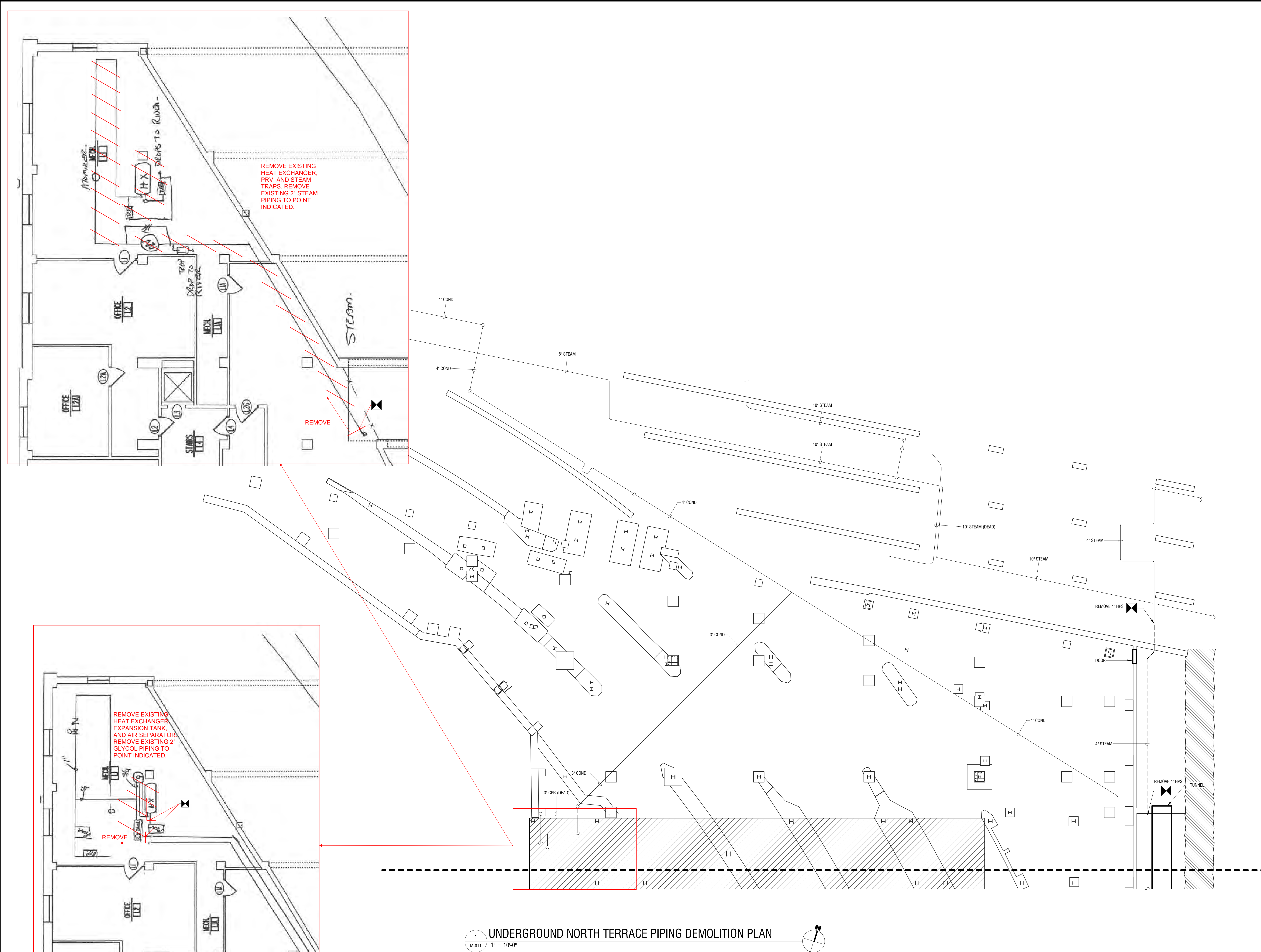
**RUNDEL LIBRARY PHASE IV**  
114 SOUTH AVE.  
ROCHESTER, NY 14614

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2170391		
DRAWN BY: MJB		
REVIEWED BY: KRV		
ISSUED FOR: 35% PRELIMINARY DESIGN		
DATE: JULY 2018		
DRAWING NAME:		

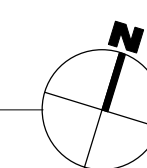
**UNDERGROUND NORTH  
TERRACE PIPING  
DEMOLITION PLAN**

DRAWING NUMBER:

**M-010**



**1 UNDERGROUND NORTH TERRACE PIPING DEMOLITION PLAN**  
M-011 1" = 10'-0"



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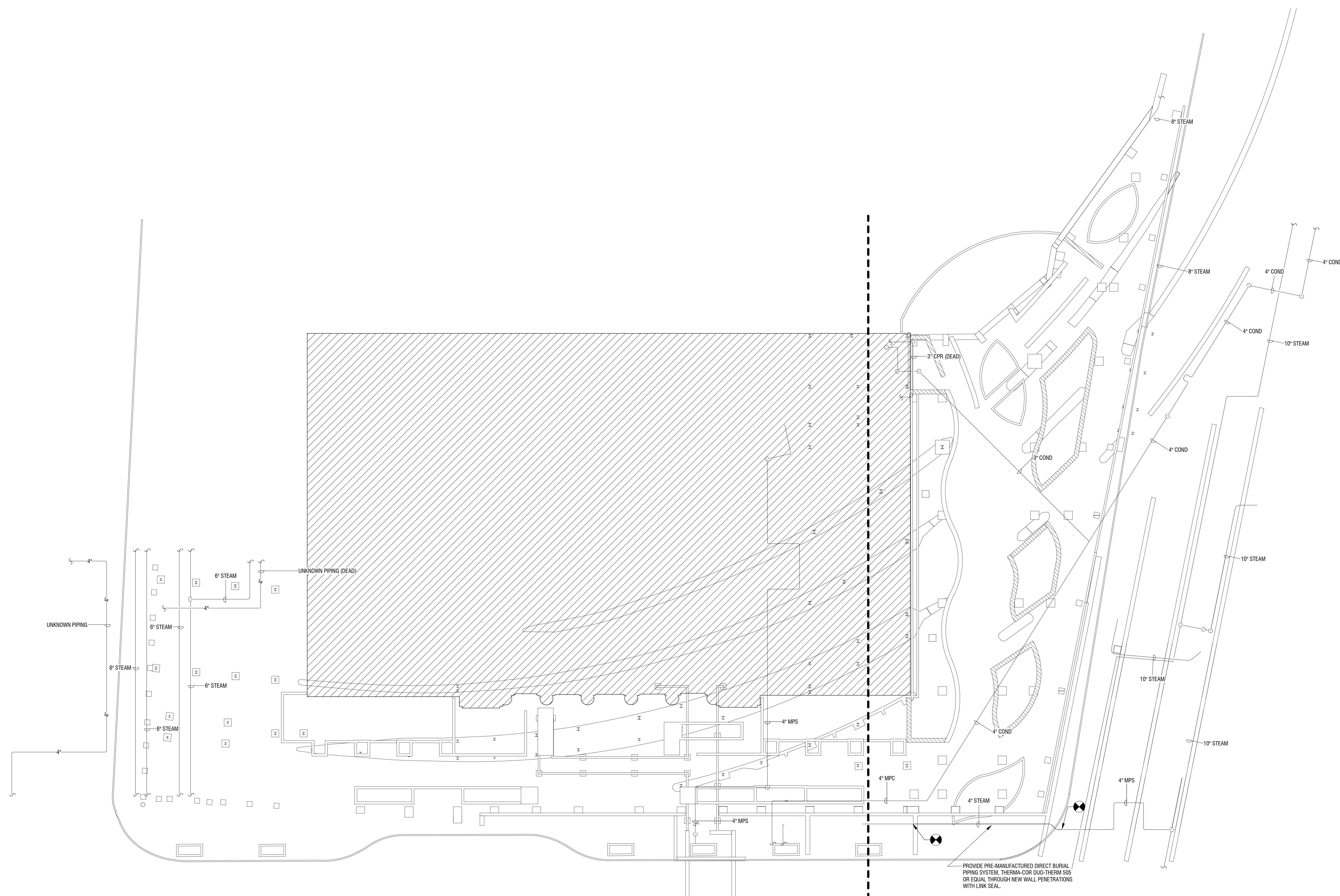
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DRAWING NAME:		

**UNDERGROUND  
MECHANICAL PIPING PLAN**

DRAWING NUMBER:

**M-100**



**1 UNDERGROUND MECHANICAL PIPING PLAN**  
M-100 1/16" = 1'-0"

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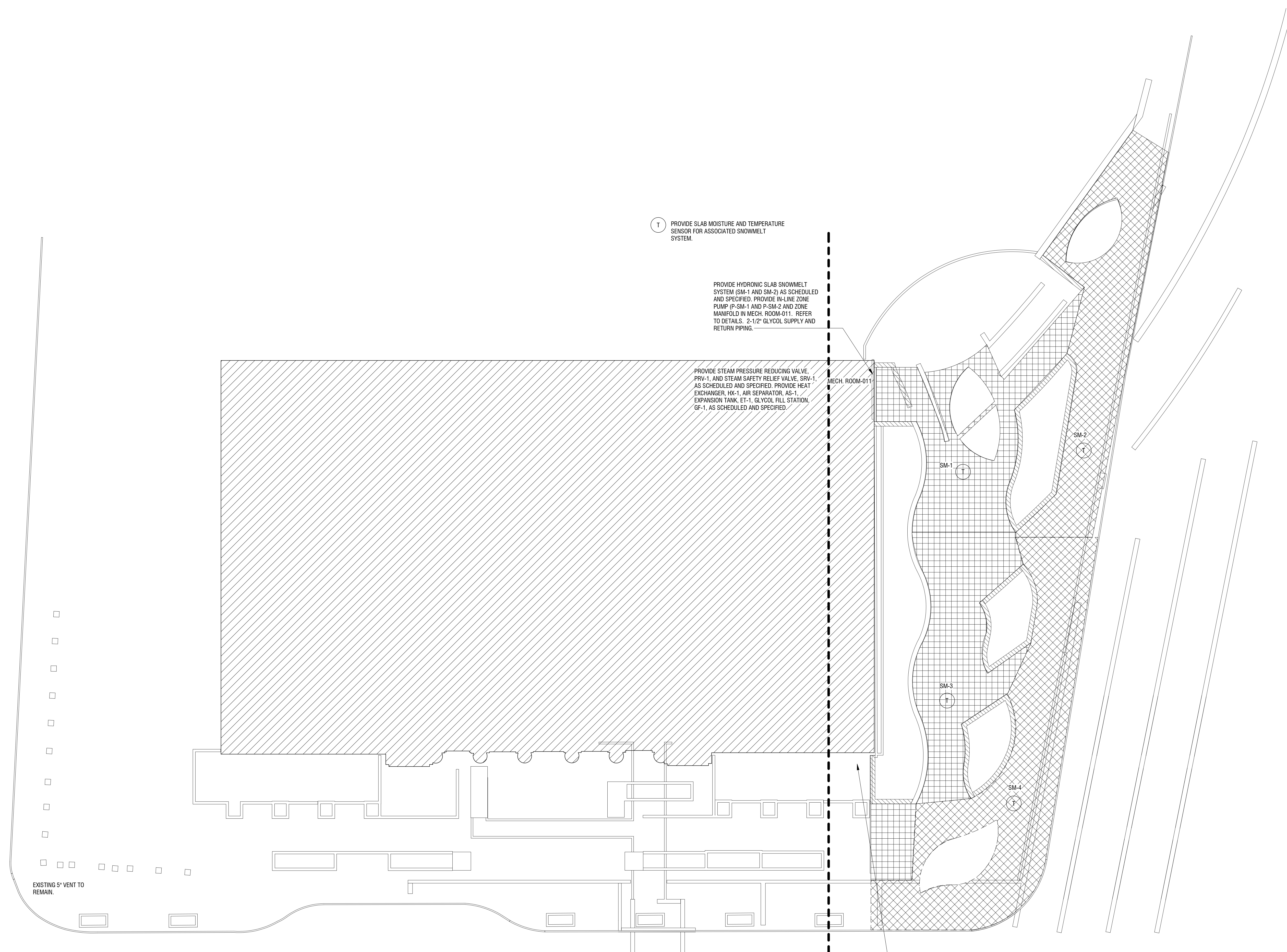
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PROJECT NUMBER: 2170391		
DRAWN BY: Author		REVIEWED BY: Approver
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DATE: JULY 2018		DRAWING NAME:

**SURFACE MECHANICAL PLAN**

DRAWING NUMBER:

**M-101**



**1 SURFACE MECHANICAL PLAN**  
M-101 1/16" = 1'-0"

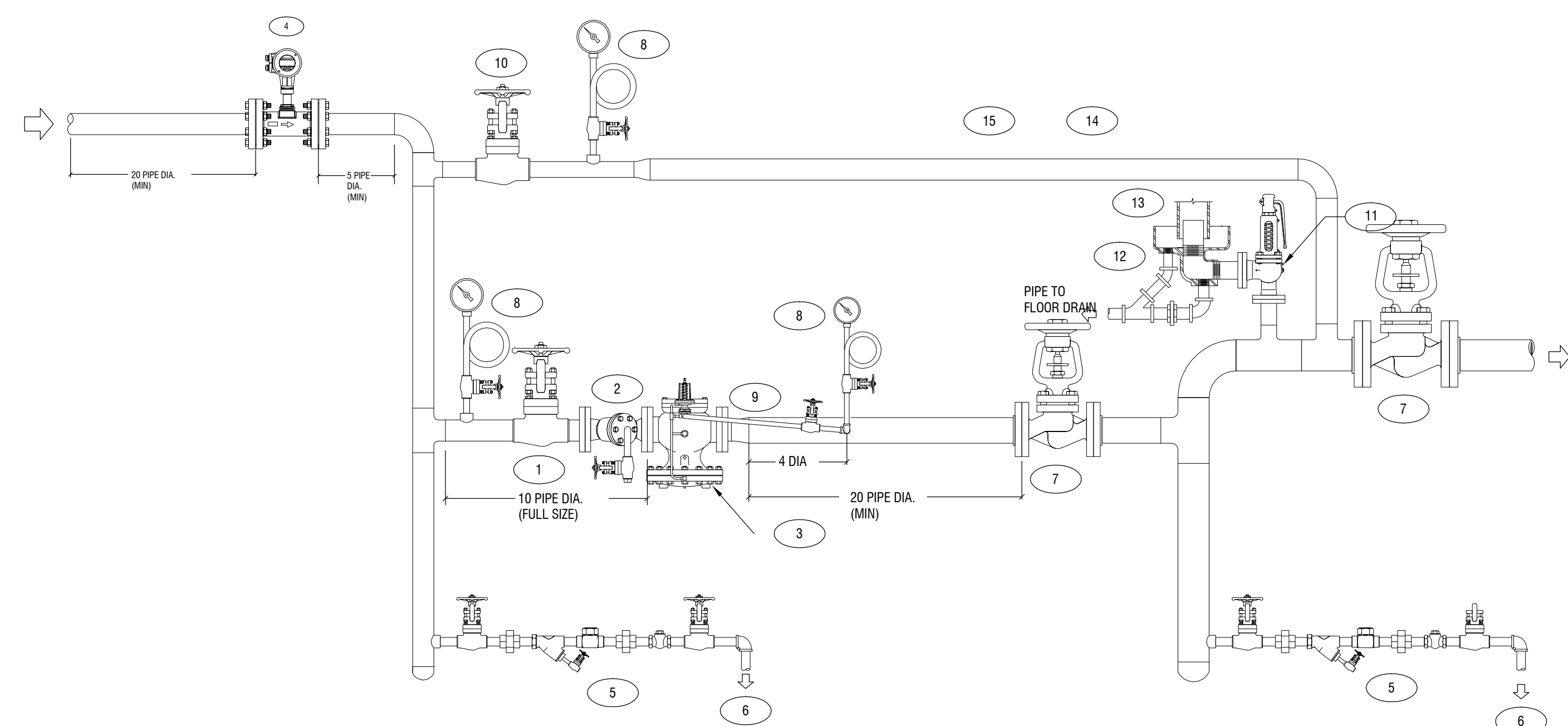
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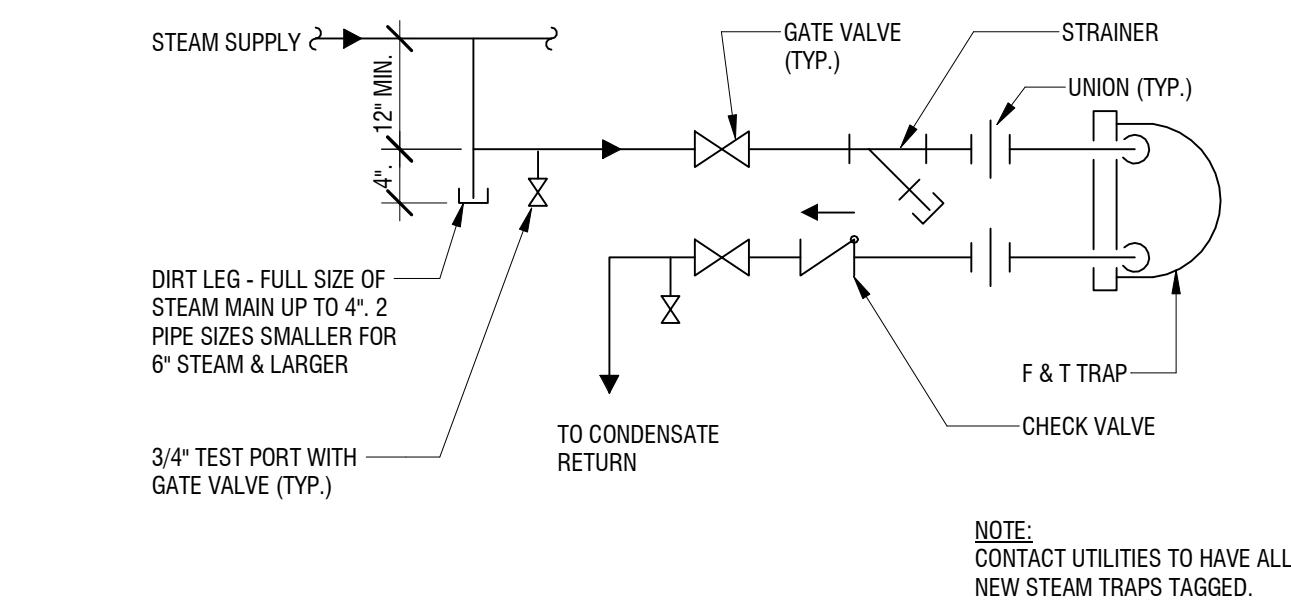
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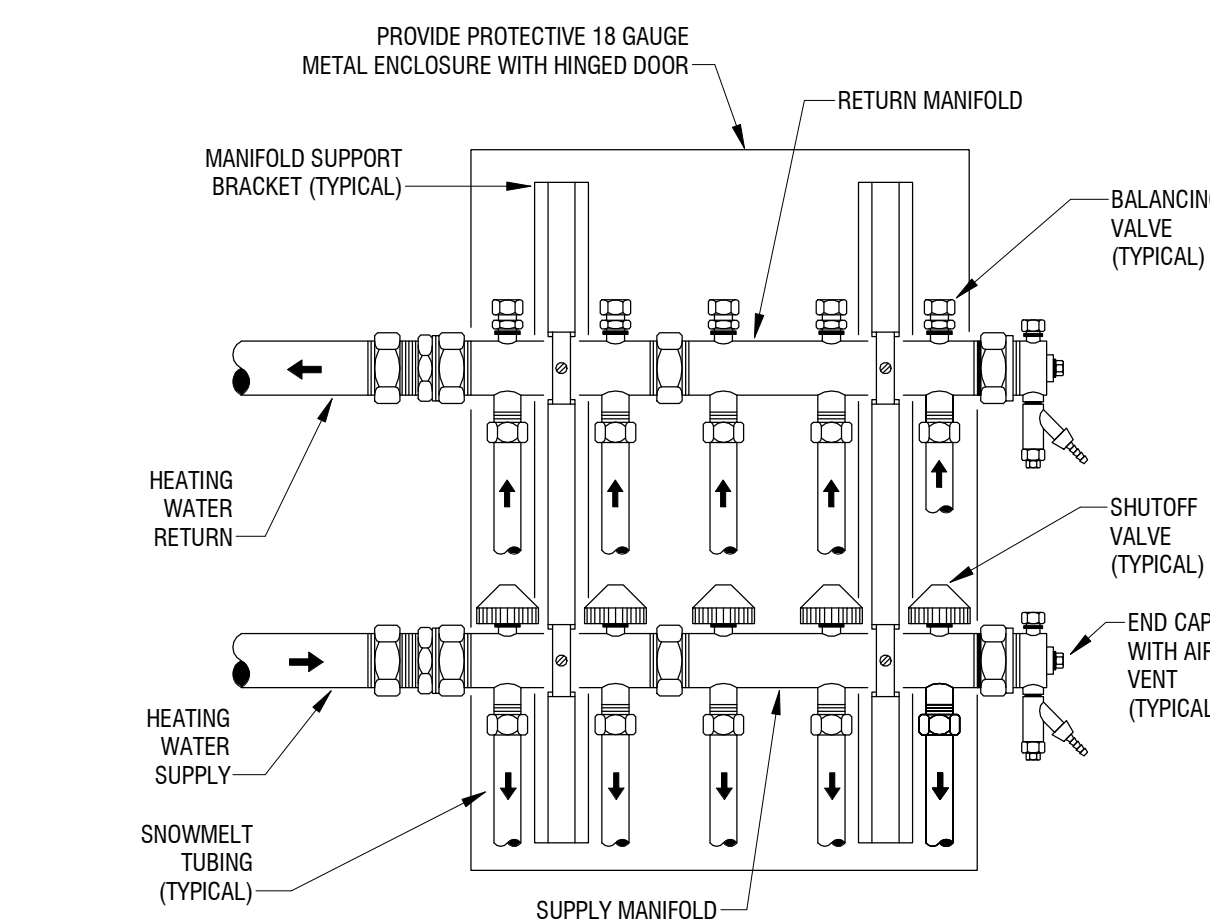


**KEYED NOTES:**

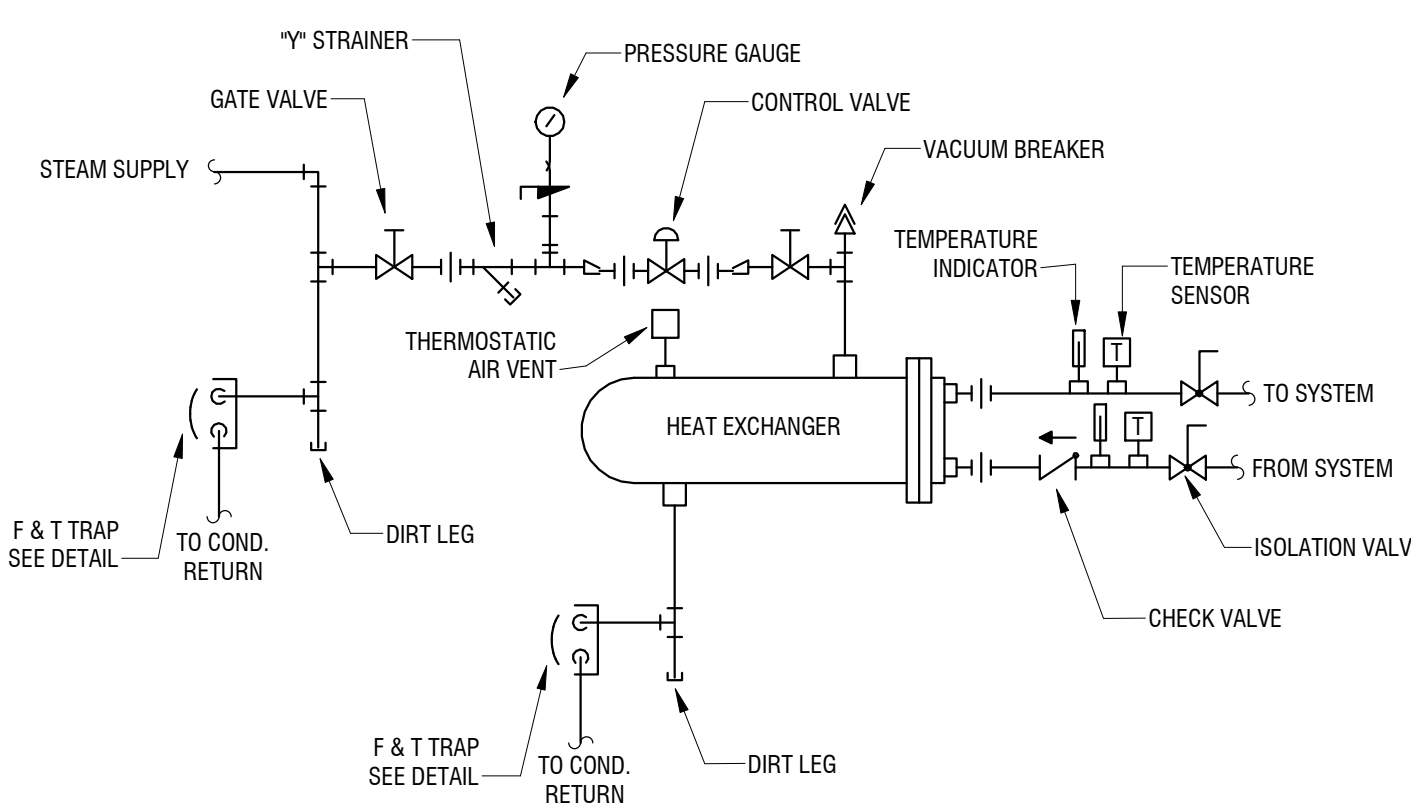
- 1 300 LB FORGED STEEL GATE VALVE - SOCKET OR BUTT WELD
- 2 300 LB STEEL STRAINER WITH BLOW-OFF VALVE (INSTALL STRAINER ON ITS SIDE)
- 3 SPENCE MODEL E PRESSURE REGULATOR WITH PILOT
- 4 YOKOGAWA DIGITAL YEWFO VORTEX FLOWMETER (PROVIDED BY OWNER) - 110 VAC REQUIRED
- 5 DRIP TRAP STATION CONSISTING OF SOCKET WELD 800 LB FORGED STEEL VALVE, 800 LB CHECK VALVE AND STRAINER, 3000 LB UNIONS. CONNECTION FROM STEAM MAIN TO VALVE WELDED, CONNECTIONS DOWNSTREAM OF VALVE SCREWED. TRAP SHALL BE SPRAX SARCO TDS2L.
- 6 CONDENSATE TO FLASH TANK, SEE DETAIL THIS SHEET.
- 7 300 LB CAST STEEL GATE VALVE
- 8 PRESSURE GAUGE STATION - 800 LB FORGED STEEL GATE VALVE, PRESSURE GAUGE AND SIPHON TUBE.
- 9 1/4" SENSING LINE WITH VALVE - PITCH AWAY FROM PILOT
- 10 800 LB FORGED STEEL GLOBE VALVE
- 11 PROVIDE LINE SIZE RELIEF VALVE
- 12 DRIP PAN ELBOW - SAME SIZE AS RELIEF OUTLET
- 13 DISCHARGE PIPE ONE SIZE LARGER THAN RELIEF OUTLET.
- 14 PIPING SYSTEM SHALL BE RATED FOR STEAM SERVICE AT NO LESS THAN 225 PSIG, 325° F CONTINUOUS OPERATION UNLESS OTHERWISE NOTED
- 15 ALL VALVES CONNECTED DIRECTLY TO HP STEAM MAIN SERVICE SHALL BE WELDED JOINT



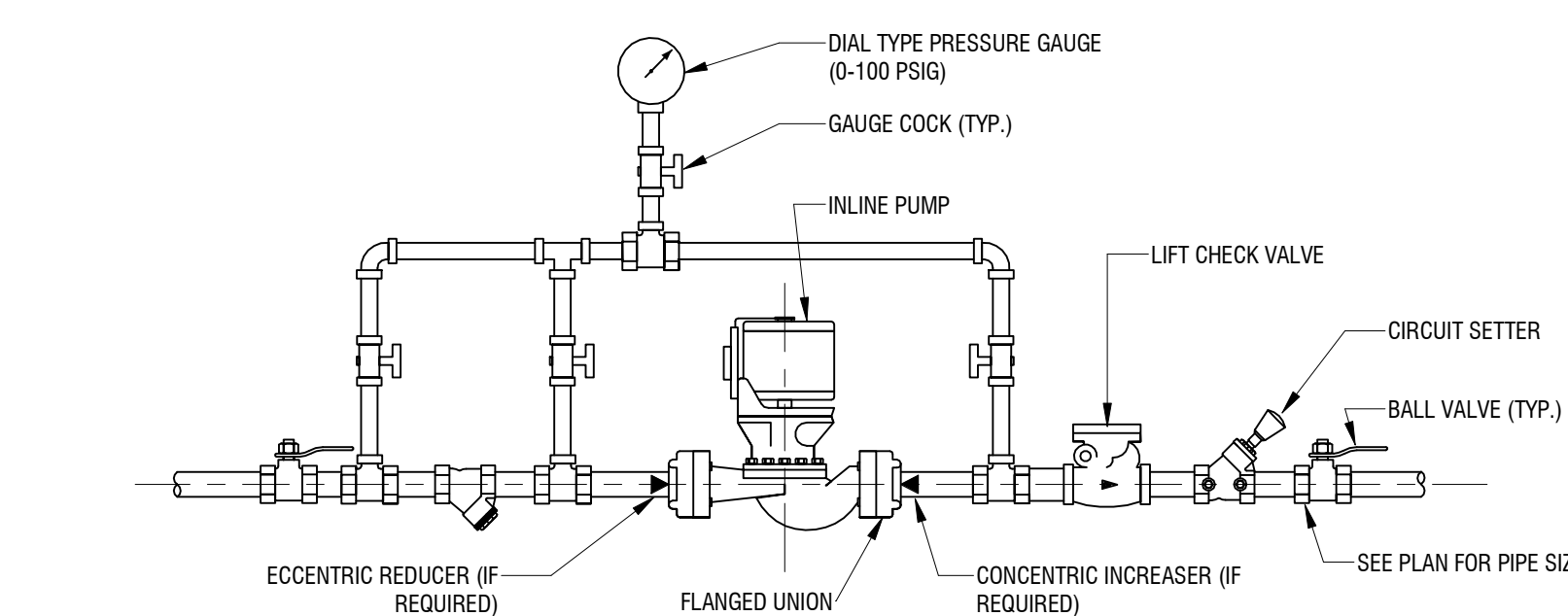
**10 F & T TRAP PIPING DETAIL**  
M-501 N.T.S.



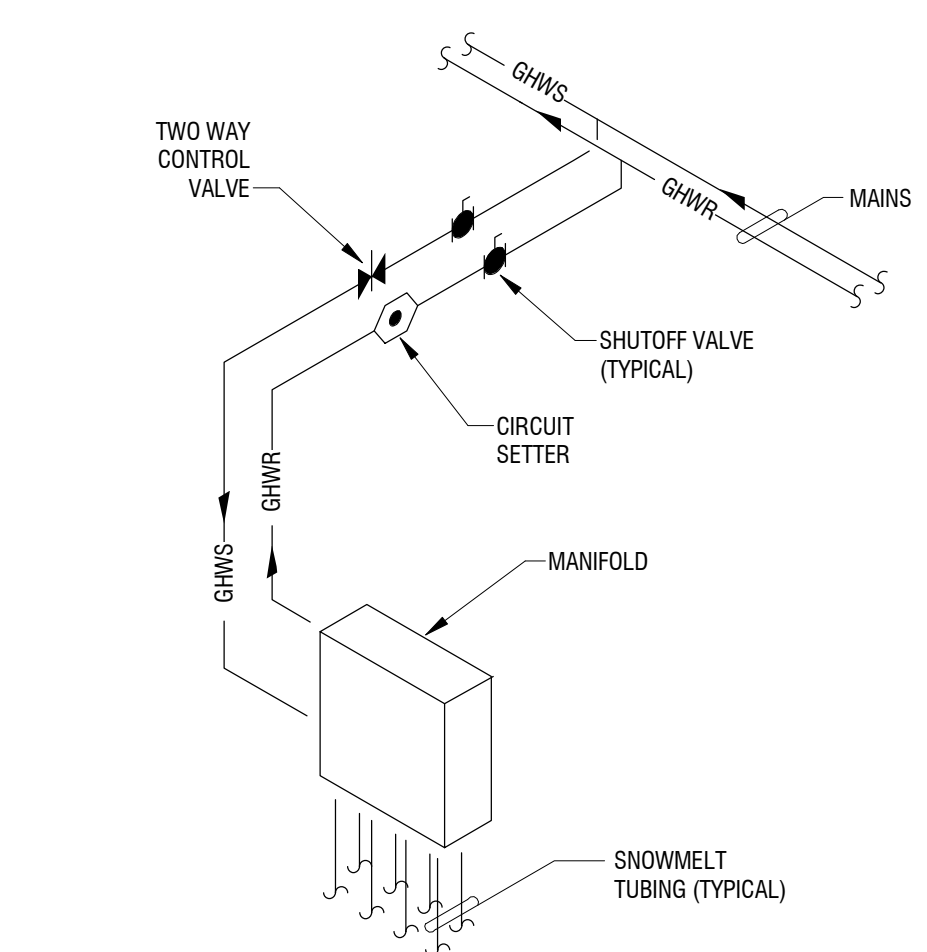
**4 SNOWMELT TUBING MANIFOLD DETAIL**  
M-501 1/8" = 1'-0"



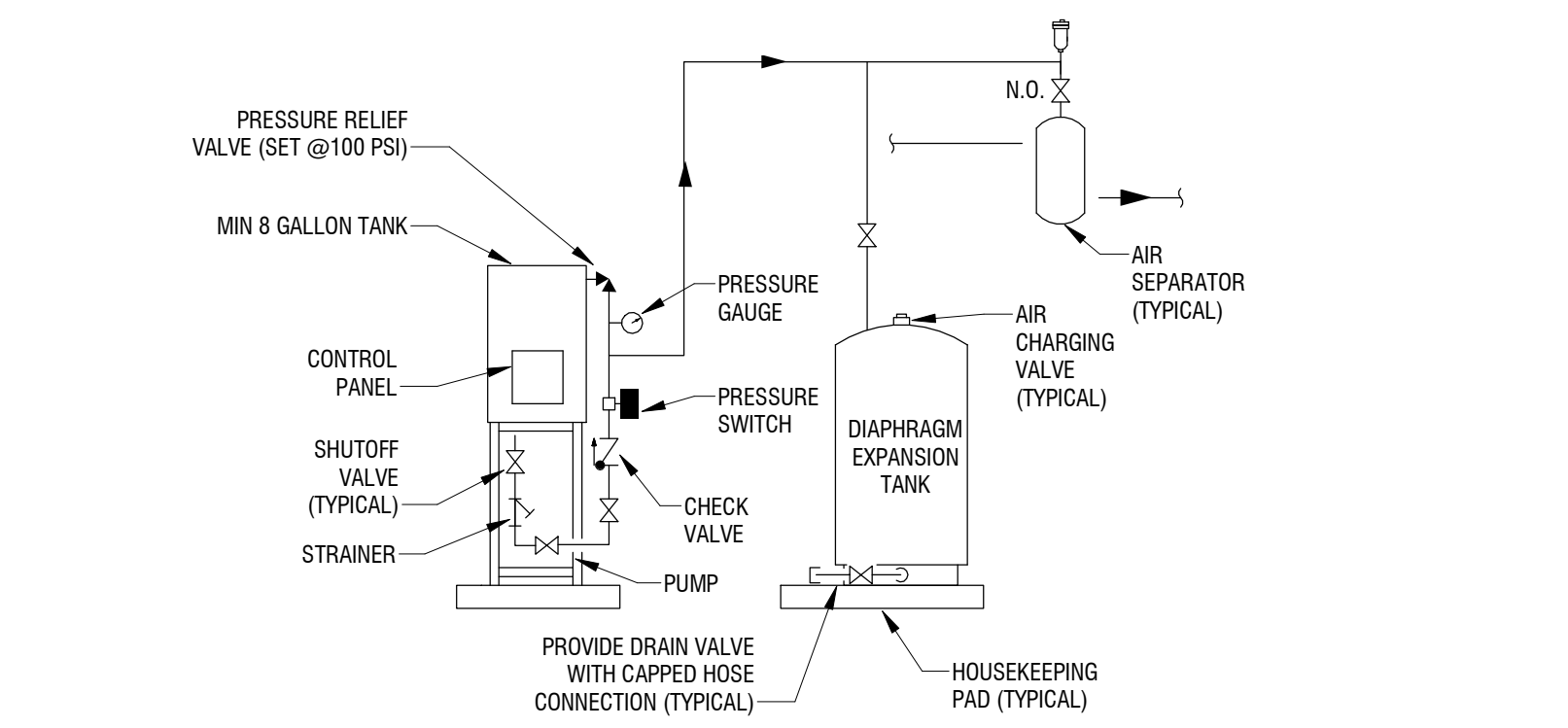
**6 SHELL AND TUBE HEAT EXCHANGER PIPING DETAIL**  
M-501 1/2" = 1'-0"



**3 INLINE CIRCULATOR PUMP DETAIL**  
M-501 N.T.S.



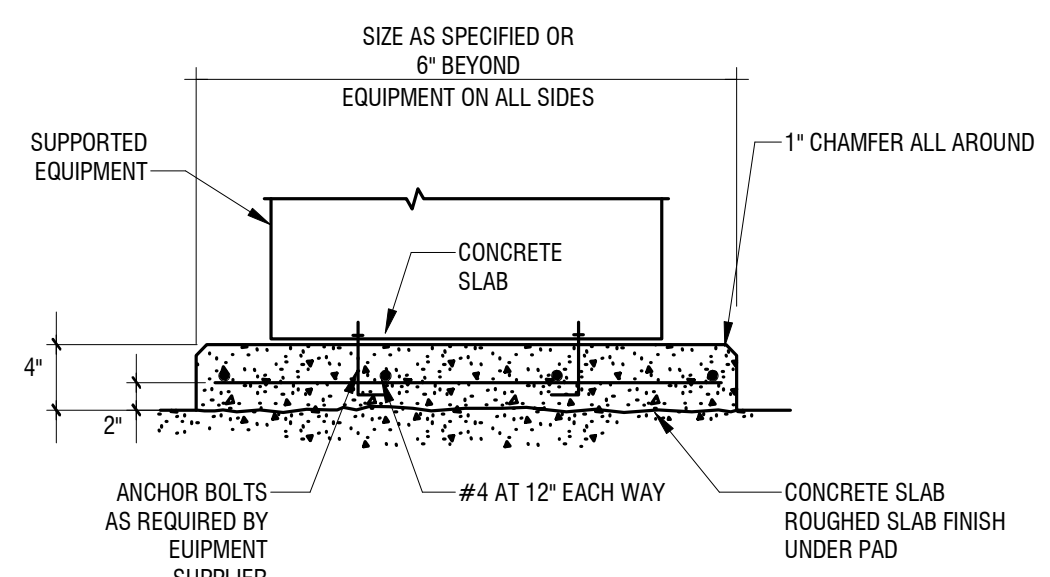
**5 SNOWMELT HEATING MANIFOLD PIPING DETAIL**  
M-501 1/8" = 1'-0"



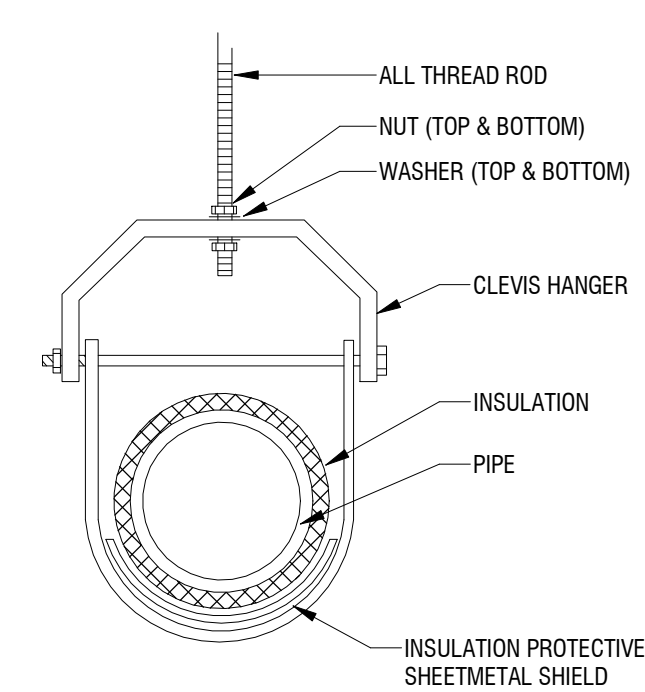
**2 GLYCOL FEED SYSTEM/EXP. TANK DETAIL**  
M-501 1" = 10'-0"

**9 STEAM PRV DETAIL**  
M-501 N.T.S.

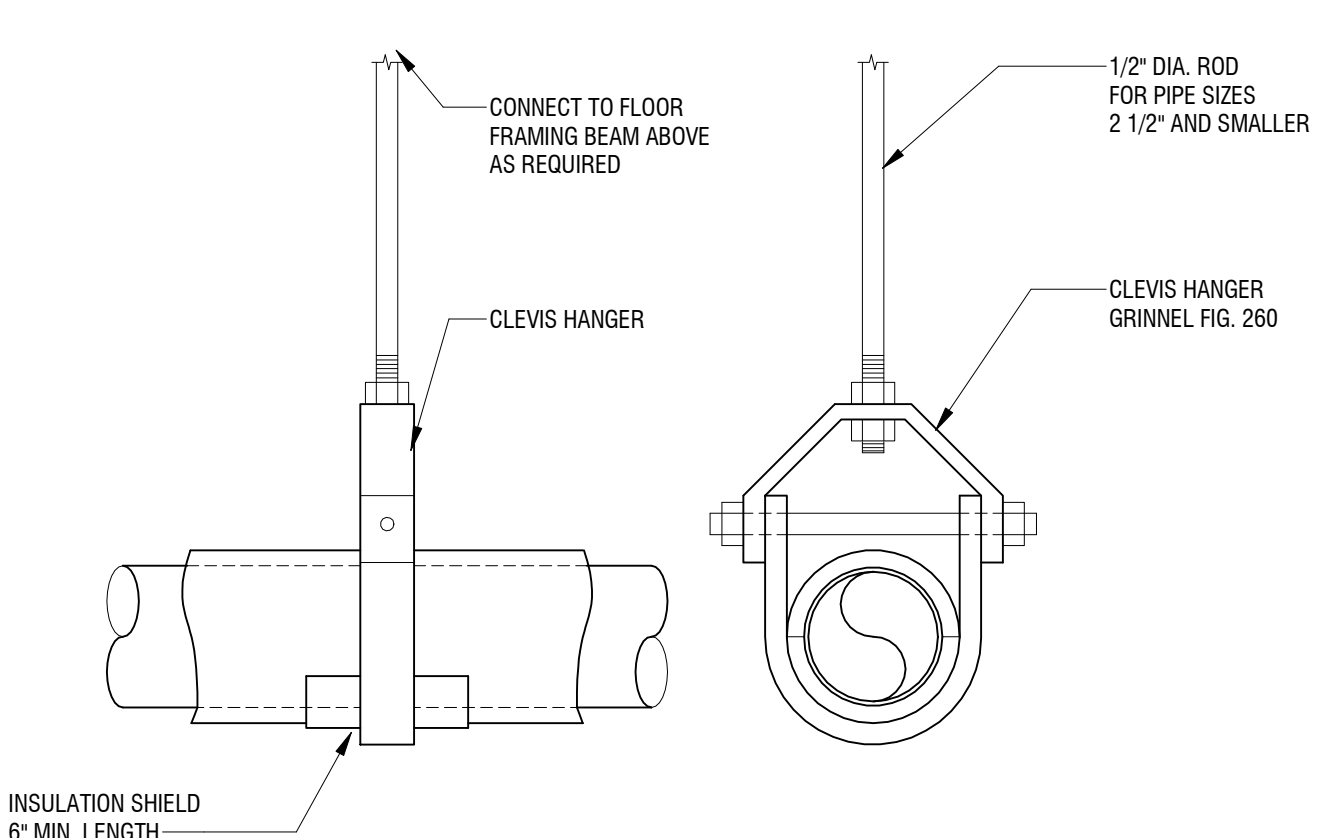
**1 STEAM PRV DETAIL**  
M-201 NOT TO SCALE



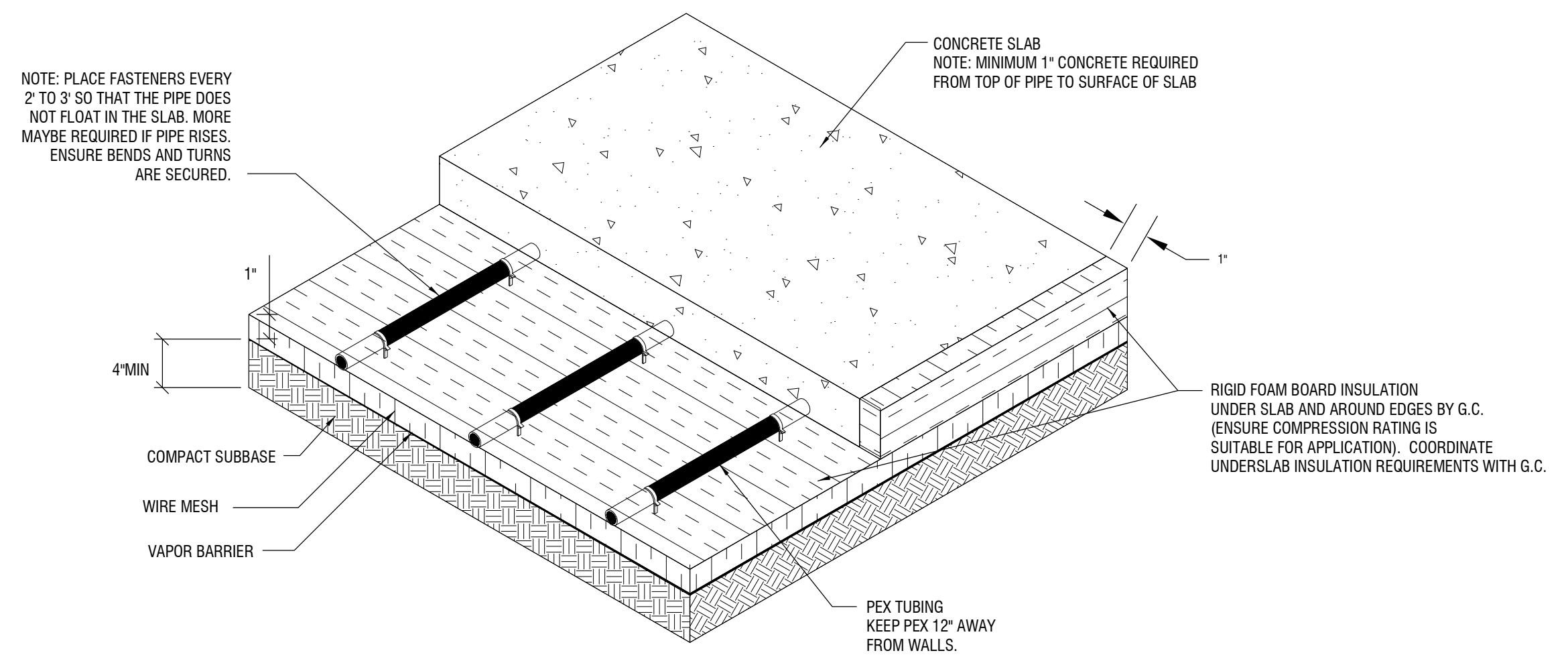
**0 HOUSEKEEPING PAD DETAIL**  
M-501 NOT TO SCALE



**8 PIPE CLEVIS HANGER DETAIL**  
M-501 NOT TO SCALE



**7 PIPE SUPPORT DETAIL**  
M-501 NOT TO SCALE



**1 SNOWMELT DETAIL**  
M-501 1/8" = 1'-0"

**RUNDEL LIBRARY PHASE IV**  
114 SOUTH AVE.  
ROCHESTER, NY 14614

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ISSUED FOR:		35% PRELIMINARY DESIGN
DATE:		JULY 2018
DRAWING NAME:		

**MECHANICAL DETAILS**

DRAWING NUMBER

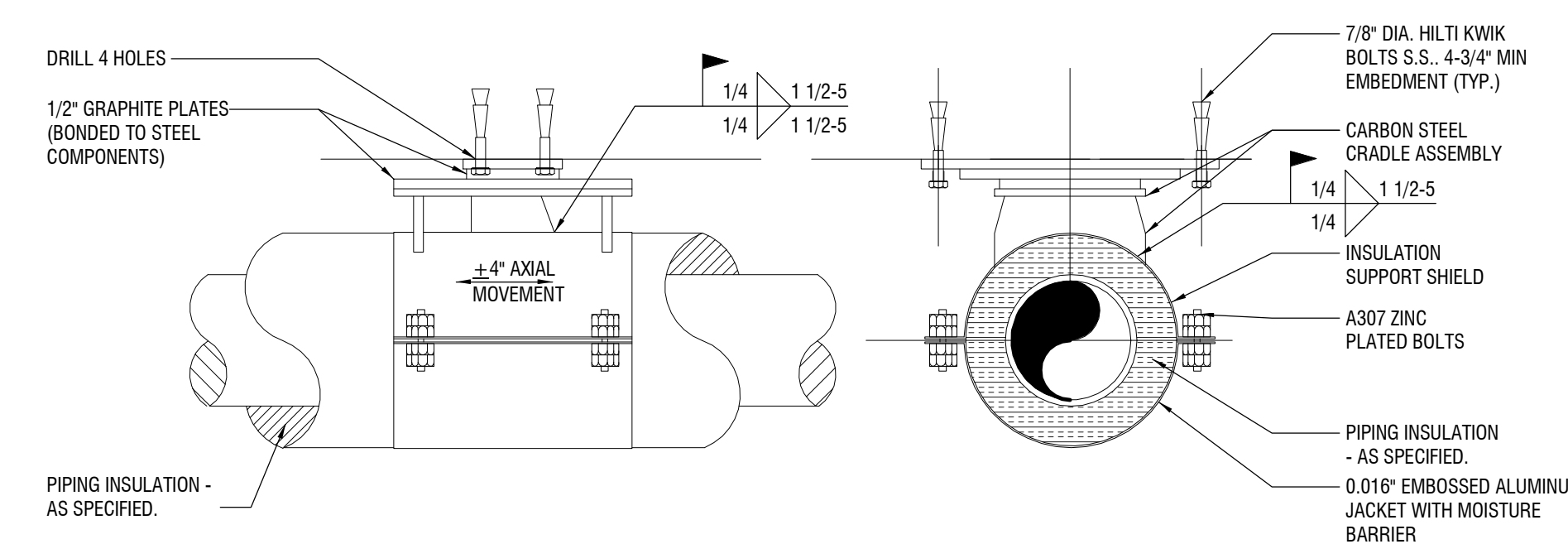
**M-501**

NOT FOR CONSTRUCTION

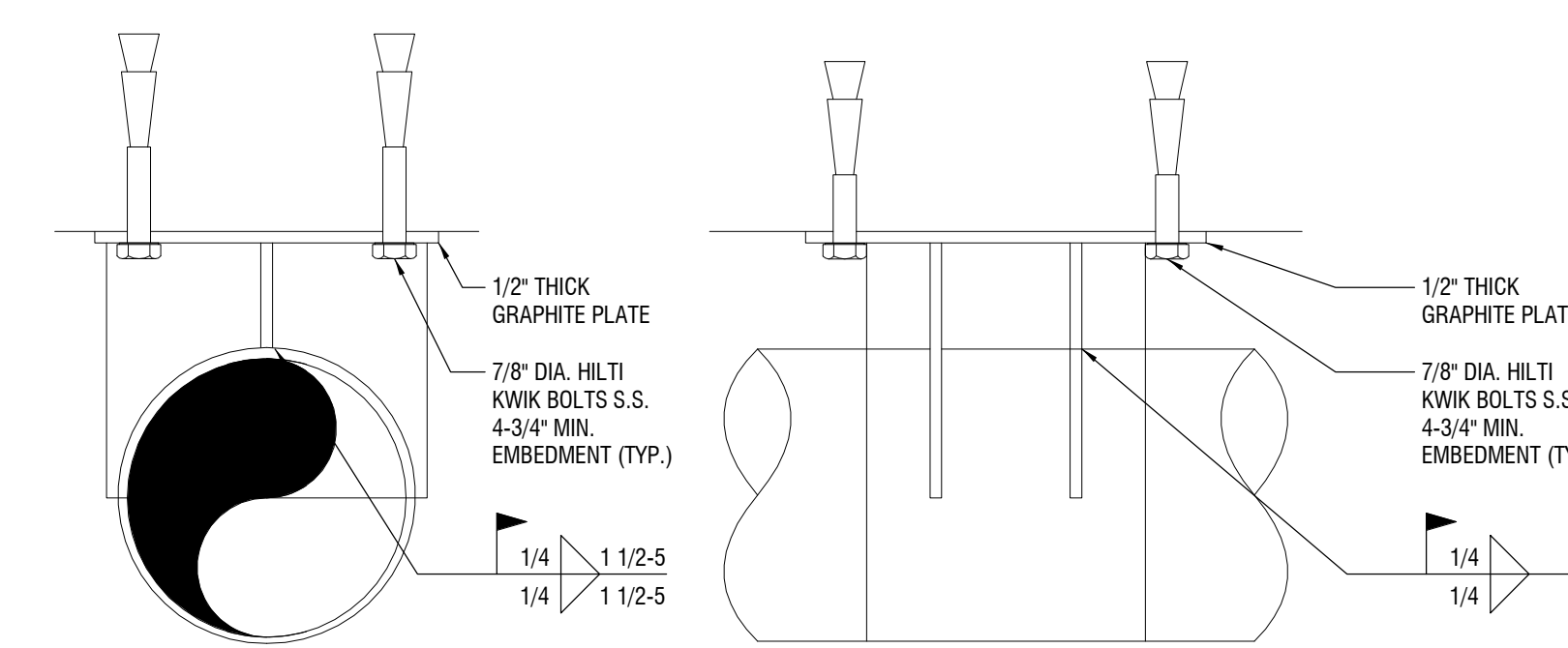
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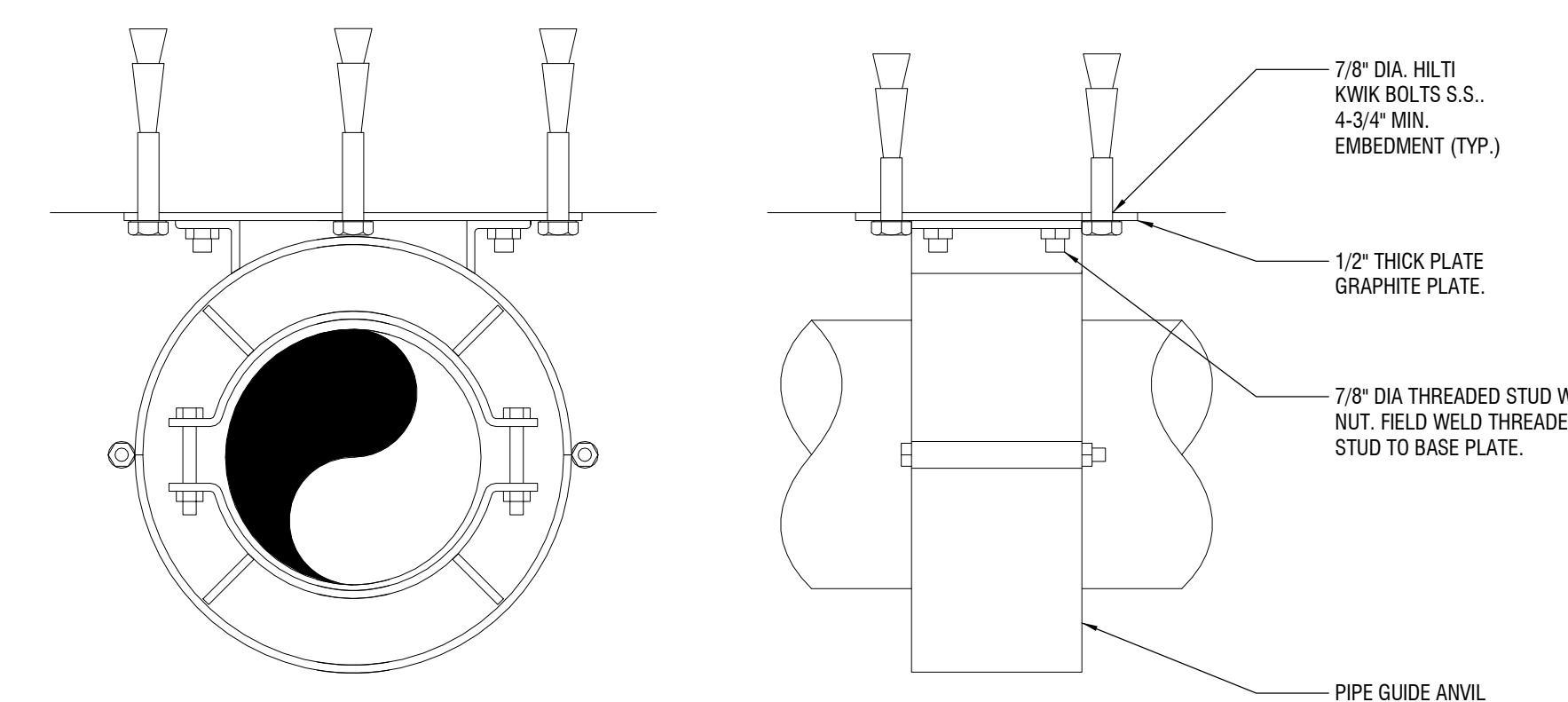
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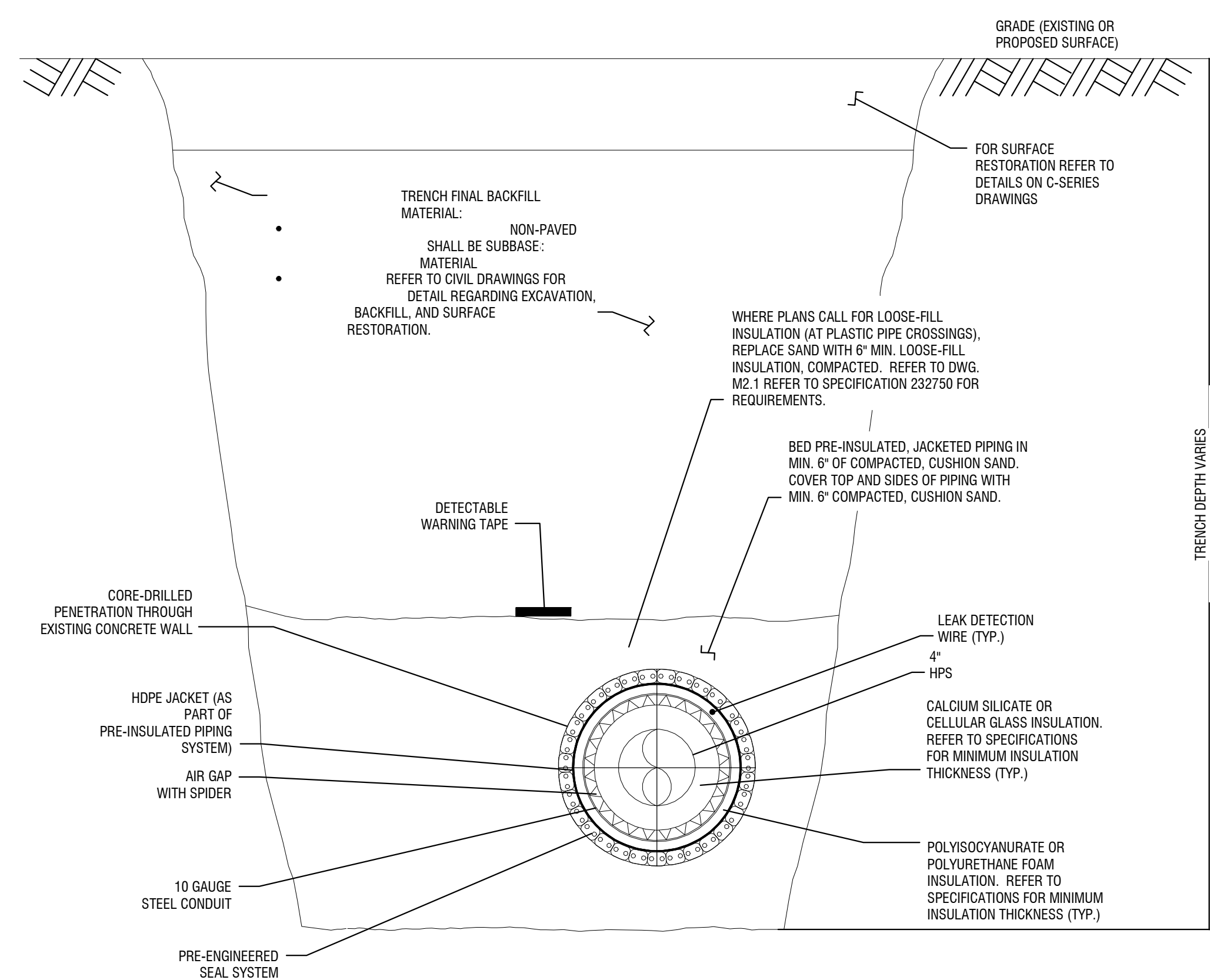
3 INSULATED PIPE SUPPORT DETAIL  
M-502 N.T.S.



2 PIPE ANCHOR DETAIL  
M-502 N.T.S.



1 PIPE GUIDE DETAIL  
M-502 N.T.S.



4 PRE-INSULATED UNDERGROUND PIPING DETAIL  
M-502 N.T.S.

- NOTES:
1. TYPICAL CROSS SECTION SHOWN. REFER TO PLAN FOR ROUTING OF STEAM LINE.
  2. FOLLOW MANUFACTURER'S INSTALLATION AND BURIAL DETAILS.
  3. REFER TO STRUCTURAL DRAWINGS FOR ANCHOR DESIGN AND DETAILS.
  4. PROVIDE SAFE OPERATION, EXCAVATION, PROTECTION (AS REQUIRED). REFER TO CIVIL SPECIFICATIONS AND DETAILS.
  5. BEDDING AND BACKFILL MATERIAL INSTALLED AND COMPACTED IN MAXIMUM 12" LIFTS.

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**MECHANICAL DETAILS**

DRAWING NUMBER:

**M-502**

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**SNOW MELT TUBING SCHEDULE (SM)**

No.	Location	Manifold Service Location	Primary Area (sqft)	Primary Tube Spacing (in)	Heat Intensity (Btu/h*sqft)	Required Heat (Btu/h)	Radiant Cap (Btu/h)	Fluid	System Volume (gal)	Supply Fluid Temp (F)	Fluid Delta T (F)	Flow (GPM)	Head (ft)	Tube Dia. (in)	No. of Circuits	Circuit Tube Length (ft)	Slab Thickness Above Tubing (in)	Notes	Manufacturer	Model
SM-1	NORTHEAST TERRACE	RUNDEL MECH. RM.	2200	8"	175	385,000	418,400	40% PROPYLENE GLYCOL	-	120	25	36.8	-	3/4"	-	333	3	1	WATTS RADIANT	PEX+
SM-2	NORTHEAST SIDEWALK	RUNDEL MECH. RM.	2400	8"	175	420,000	458,500	40% PROPYLENE GLYCOL	-	120	25	40.1	-	3/4"	-	333	3	2	WATTS RADIANT	PEX+
SM-3	NORTHWEST TERRACE	RUNDEL CLOSET	2300	8"	175	402,500	438,000	40% PROPYLENE GLYCOL	-	120	25	38.5	-	3/4"	-	333	3	1	WATTS RADIANT	PEX+
SM-4	NORTHWEST SIDEWALK	RUNDEL CLOSET	1850	8"	175	323,750	352,000	40% PROPYLENE GLYCOL	-	120	25	30.9	-	3/4"	-	333	3	2	WATTS RADIANT	PEX+

NOTES:  
1. TOTAL SLAB THICKNESS TO BE 6-1/2".  
2. TOTAL SLAB THICKNESS TO BE 8".

**PUMP SCHEDULE (P)**

No.	Service	Location	Flow (GPM)	Head (ft)	Motor Size (HP)	Motor Speed (RPM)	Type	Electric Data	Effic. %	Weight (Lbs.)	Manufacturer	Model	Notes
P-SM-1	SM-1	RUNDEL MECH. RM.	36.8	-	1.0	1800	IN-LINE ECM	115 / 1 / 60	77	40	GRUNDFOS	MAGNA3 40-180	1
P-SM-2	SM-2	RUNDEL MECH. RM.	40.1	-	1.0	1800	IN-LINE ECM	115 / 1 / 60	74	40	GRUNDFOS	MAGNA3 40-180	1
P-SM-3	SM-3	RUNDEL CLOSET	38.5	-	1.0	1800	IN-LINE ECM	115 / 1 / 60	68	40	GRUNDFOS	MAGNA3 40-180	1
P-SM-4	SM-4	RUNDEL CLOSET	30.9	-	1.0	1800	IN-LINE ECM	115 / 1 / 60	68	40	GRUNDFOS	MAGNA3 40-180	1

NOTES:  
1. PROVIDE WITH COMBINATION DISCONNECT AND STARTER.

**STEAM PRESSURE REDUCING VALVE SCHEDULE**

No.	Service	Inlet Pressure (PSIG)	Inlet Temperature (°F)	Outlet Pressure (PSIG)	Delivery Pipe Size (inches)	Steam Flow (Lbs./HR)	Maximum Noise (dBA)	Manufacturer	Accessories	Size	Notes
PRV-1	SNOWMELT	60	307	15	4"	2400	80	SPENCE ENGINEERING CO.	MUFFLING ORIFICE PLATE	2"	1

NOTES:  
1. RELIEF VALVE SET PRESSURE SHALL BE 20 PSIG.

**STEAM SAFETY RELIEF VALVE SCHEDULE**

No.	Service	Set Pressure (PSIG)	Orifice Area (Sq. In.)	Size	Manufacturer
SRV-1	RUNDEL SNOWMELT	20	2.935	4"	SPENCE ENGINEERING CO.

NOTES:  
1. RELIEF VALVE SET PRESSURE SHALL BE 20 PSIG.

**GLYCOL FILL STATION SCHEDULE (GF)**

No.	LOCATION	Service	Tank Volume (Gal.)	System Fluid	Line Size (in.)	Pump HP	Electric	Weight (LBS)	Manufacturer	Model	Notes
GF-1	RUNDEL MECH. ROOM - 011	SNOWMELT LOOP	50	40% PROPYLENE GLYCOL	3/4"	1/3	115/1/60	600	J.L. WINGERT	GL50-E1	1

NOTES:  
1. ELECTRIC CONTRACT TO PROVIDE A RECEPTACLE FOR POWER.

**AIR SEPARATOR SCHEDULE (AS)**

No.	Location	Service	GPM	Water PD (ft.)	Line Size	Manufacturer	Model	Notes
AS-1	RUNDEL MECH. ROOM - 011	SNOWMELT	200	1.0	4"	SPROVENT	VDT400	1

NOTES:  
1. PROVIDE COMBINATION AIR ELIMINATOR/DIRT SEPARATOR.

**EXPANSION TANK SCHEDULE (ET)**

No.	LOCATION	Service	Type	Orientation	System Volume (Gal.)	Tank Capacity (Gal.)	Acceptance Volume (Gal.)	Tank Diameter	Tank Height	Weight (LBS)	Manufacturer	Model	Notes
ET-1	RUNDEL MECH. ROOM - 011	SNOWMELT LOOP	DIAPHRAGM	VERTICAL							BELL & GOSSET		1

NOTES:  
1. MOUNT ON HOUSEKEEPING PAD.

**HEAT EXCHANGER SCHEDULE (HX)**

No.	Location	Service	Type	SHELL SIDE (40% PROPYLENE GLYCOL)					TUBE SIDE (15 PSI STEAM)					Heat Transfer (MBH)	Number of Passes	Effective Heat Surface (SF)	Number of Tubes	Weight (lbs.)	Manufacturer	Model	Notes
				Flow (GPM)	EWT	LWT	PD (ft)	Connections (in)	Flow (LB/HR)	ET	LT	PD (ft)	Connections (in)								
HX-1	RUNDEL MECH. ROOM - 011	SNOWMELT LOOP	SHELL AND TUBE	200	95	120	14	5 / 5	2423	249	249	15	4 / 2	2300	1 / 2	64.2	110	150	BELL & GOSSETT	GWU 123-22	

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DRAWN BY: **Author**  
REVIEWED BY: **Approver**

ISSUED FOR: **35% PRELIMINARY DESIGN**

DATE: **JULY 2018**

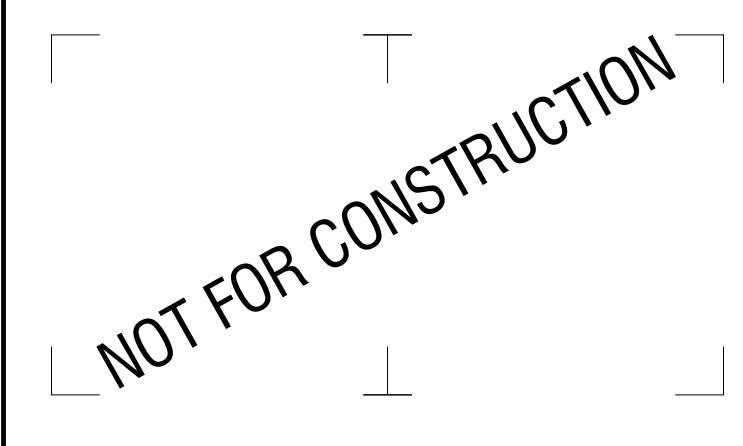
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**MECHANICAL SCHEDULES**

DRAWING NUMBER:

**M-601**

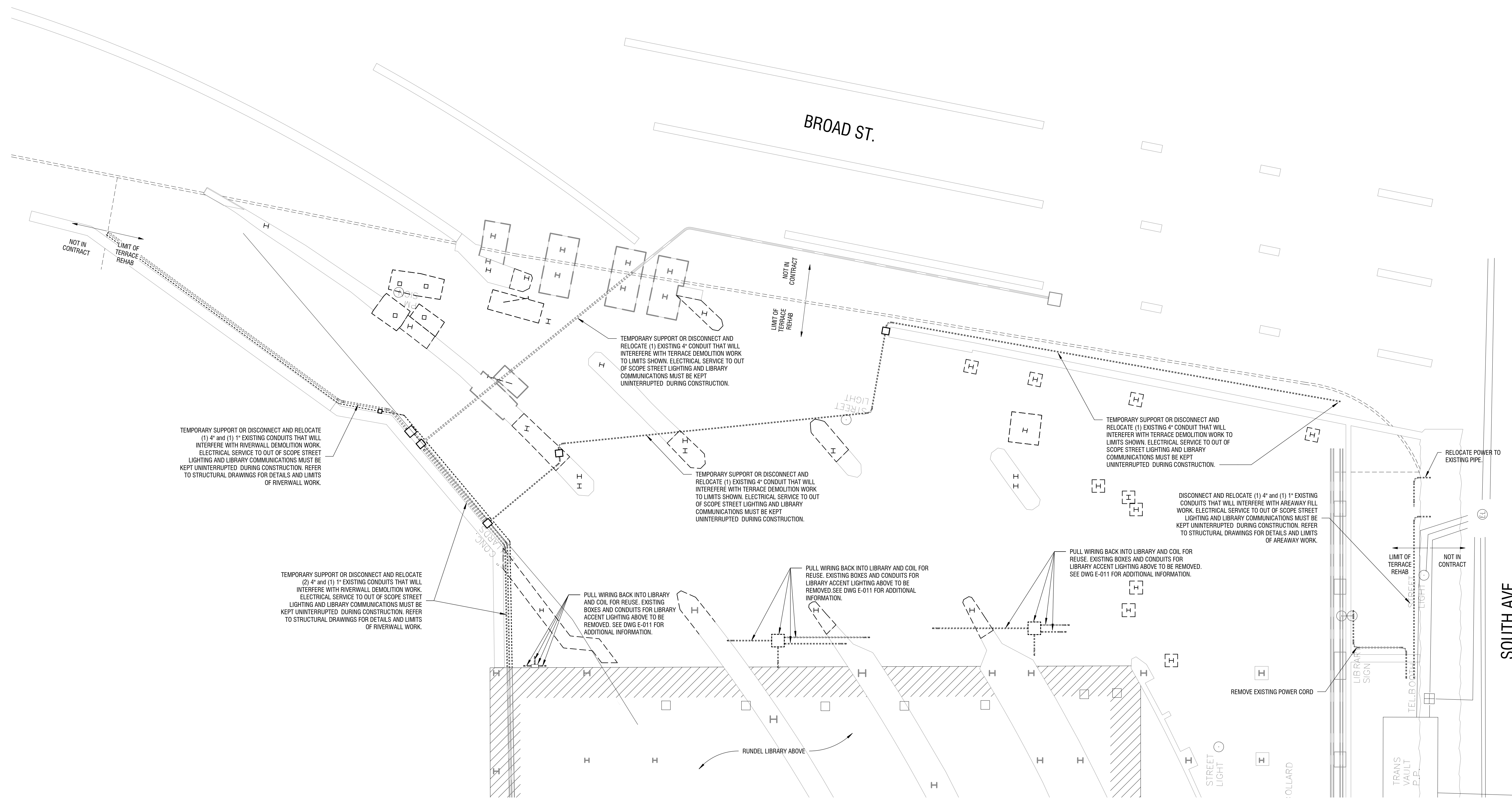




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**RUNDEL LIBRARY PHASE IV**  
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**1 NORTH TERRACE UNDERGROUND ELECTRICAL DEMOLITION PLAN**  
E-010 1" = 10'-0"

NO.	DATE	DESCRIPTION
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**NORTH TERRACE  
UNDERGROUND  
ELECTRICAL DEMOLITION  
PLAN**

DRAWING NUMBER:

**E-010**

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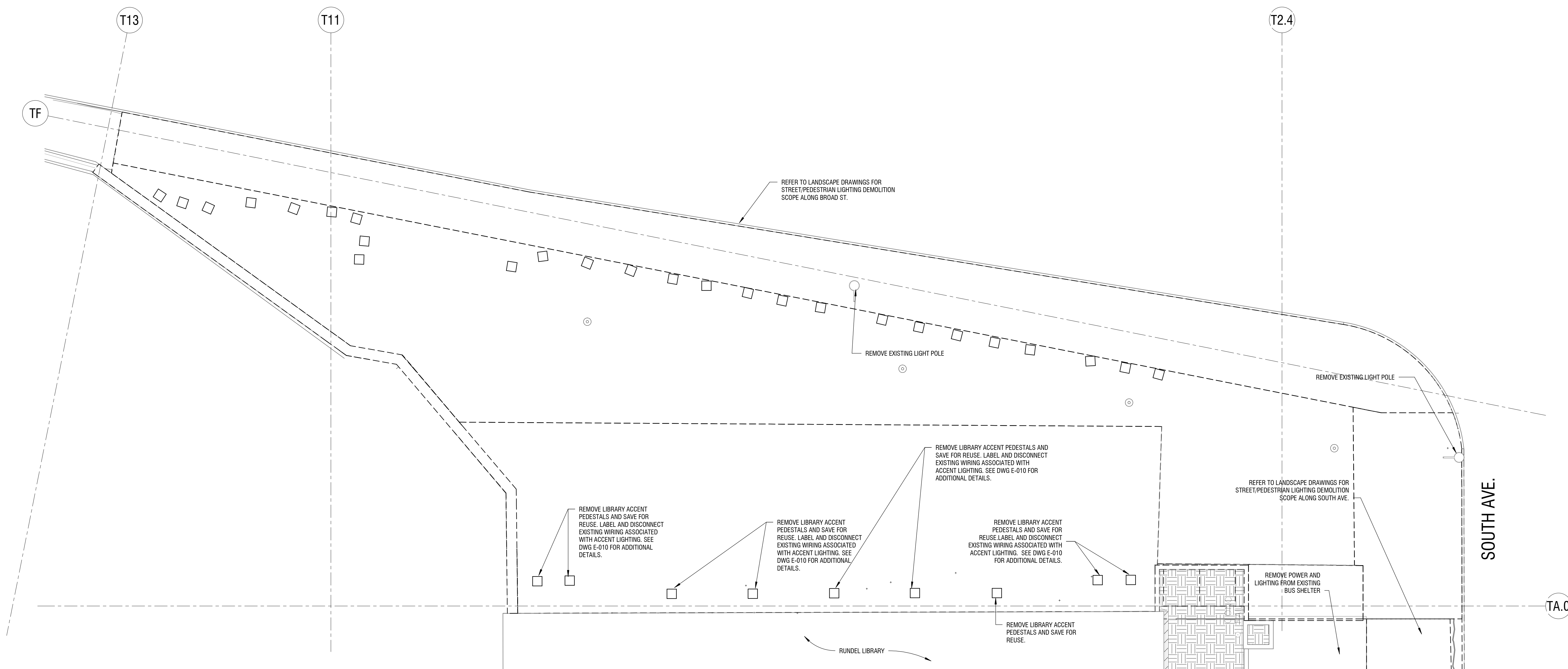
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**NORTH TERRACE SURFACE ELECTRICAL DEMOLITION PLAN**

DRAWING NUMBER:

**E-011**



**1 NORTH TERRACE SURFACE ELECTRICAL DEMOLITION PLAN**  
E-011 1" = 10'-0"

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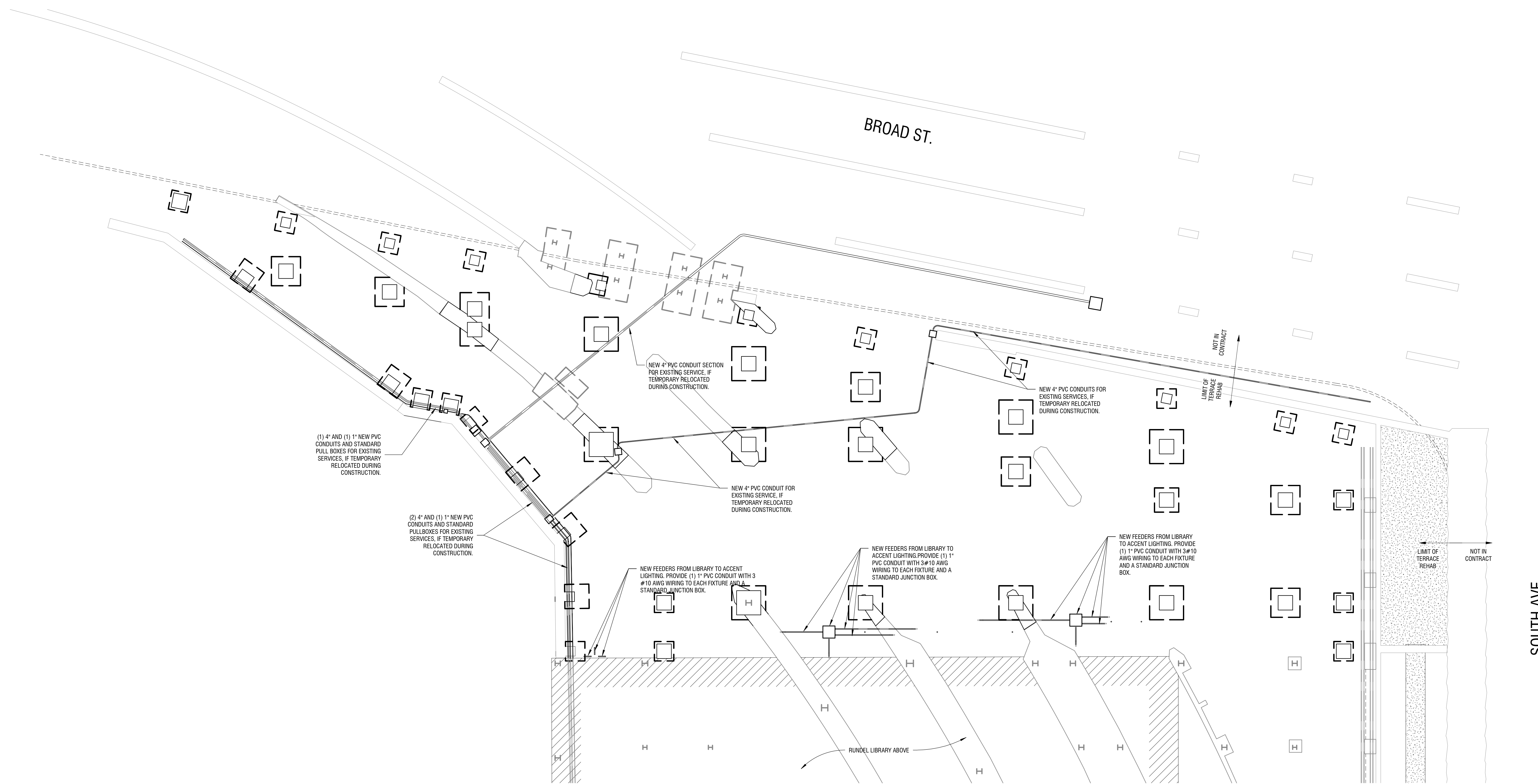
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**NORTH TERRACE  
UNDERGROUND  
ELECTRICAL PLAN**

DRAWING NUMBER:

**E-100**



**1 NORTH TERRACE UNDERGROUND ELECTRICAL PLAN**  
E-100 1" = 10'-0"

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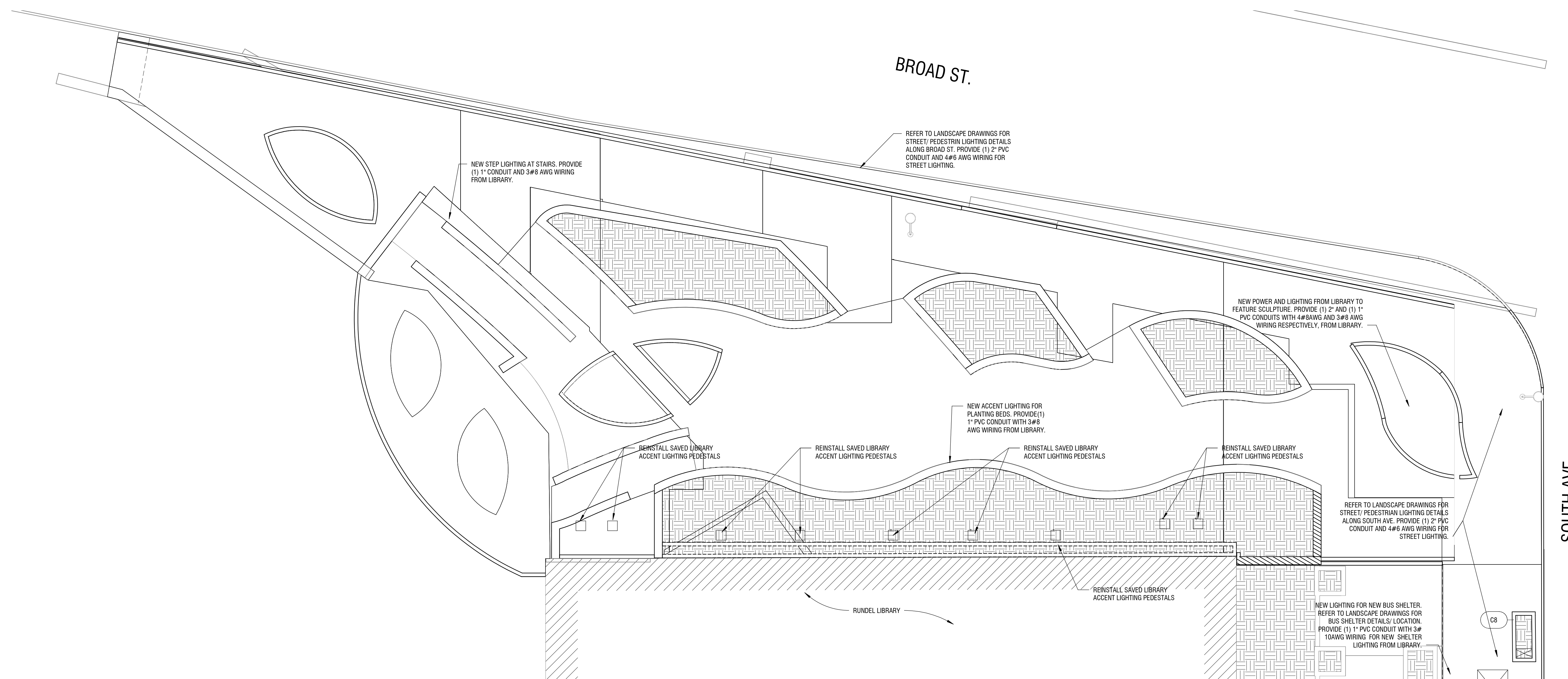
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**NORTH TERRACE SURFACE ELECTRICAL PLAN**

DRAWING NUMBER:

**E-101**



**1 NORTH TERRACE SURFACE ELECTRICAL PLAN**  
E-101 1" = 10'-0"