



City of Detroit  
Inter-Departmental Communication

---

**TO:** Richard Doherty, City Engineer  
City Engineering/Department of Public Works

**FROM:** Debra Singleton, Engineer  
Detroit Water and Sewerage Department

**DATE:** May 16, 2017

**RE:** Petition No. 934  
Requested Encroachment into a Portion of Dequindre Ave. in the Area Bound by  
Rivard, Cherboneau Place, St. Aubin, and East Lafayette Blvd.

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We have reviewed the above Petition received by this office. With regard to DWSD's interests, our comments are as follows:

- Our records indicate that there are water mains in the area of encroachments. DWSD has no objection to the requested encroachments provided that the attached Provisions for Encroachment are strictly followed.

If you have any questions, please call me at (313) 267-8309 or Mohamed Boudali at (313) 964-9236.

Sincerely,

Debra Singleton  
Engineer  
Permits Section

DS//gl

Attachments

CC: Mohamad Farhat, CSF

Michael Duggan, Mayor

City of Detroit  
**City Engineering Division, Department of Public Works  
Survey Bureau**

**NOTICE OF PROPOSED CHANGE IN PROPERTY**

Date: 08/12/2016

Petition: x934

- |  |  |
|--|--|
| <input type="checkbox"/> AT&T Telecommunication            | <input type="checkbox"/> Berm Use                |
| <input type="checkbox"/> Comcast Television (CATV)         | <input type="checkbox"/> Conversion to Easement  |
| <input type="checkbox"/> Detroit Edison (DTE)              | <input type="checkbox"/> Dedication              |
| <input type="checkbox"/> Fire Department                   | <input checked="" type="checkbox"/> Encroachment |
| <input type="checkbox"/> Great Lakes Water Authority       | <input type="checkbox"/> Temporary Closing       |
| <input type="checkbox"/> Michcon (DTE)                     | <input type="checkbox"/> Vacation                |
| <input type="checkbox"/> Planning & Development Department |  |
| <input type="checkbox"/> Public Lighting Authority         |  |
| <input type="checkbox"/> Public Lighting Department        |  |
| <input type="checkbox"/> Police Department                 |  |
| <input type="checkbox"/> Solid Waste Division, DPW         |  |
| <input type="checkbox"/> Street Design Bureau, DPW         |  |
| <input type="checkbox"/> Street Maintenance Division, DPW  |  |
| <input type="checkbox"/> Traffic Engineering Division, DPW |  |
| <input type="checkbox"/> Water and Sewerage Department     |  |
| <input type="checkbox"/> _____                             |  |

A petition drawing is attached. Property shown on the attached print is proposed to be changed as indicated. Kindly report (using the back of this sheet) the nature of your services, if any affected by the proposed change and the estimated costs of removing and rerouting such services (if necessary).

Please return one copy to City Engineering Division, DPW within two weeks of the submittal date. Retain one copy and print for you file.

Ron Brundidge, Director, Department of Public Works

By: Richard Doherty, CED DPW  
City Engineer

**TO: City Engineering Division, DPW  
2 Woodward Ave., Suite 642  
Detroit, Michigan 48226-3462  
Survey Bureau: 313-224-3970**

**Petition: x934**

The proposed change in property (referred to on the other side of this sheet) would affect our services as follows:

- Not Involved
  
- Involved; but asking you to hold action on this petition until further notice.
  
- Involved; but no objections to the property change.
  
- Involved; but no objections to the property change...provided as easement of the full width of the public right-of-way (street, alley or other public place) is reserved.
  
- Involved; the nature of our services and the estimated costs of removing and/or rerouting such services are:

\_\_\_\_\_  
(Utility or City Department)

\_\_\_\_\_  
By

\_\_\_\_\_  
Title

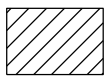
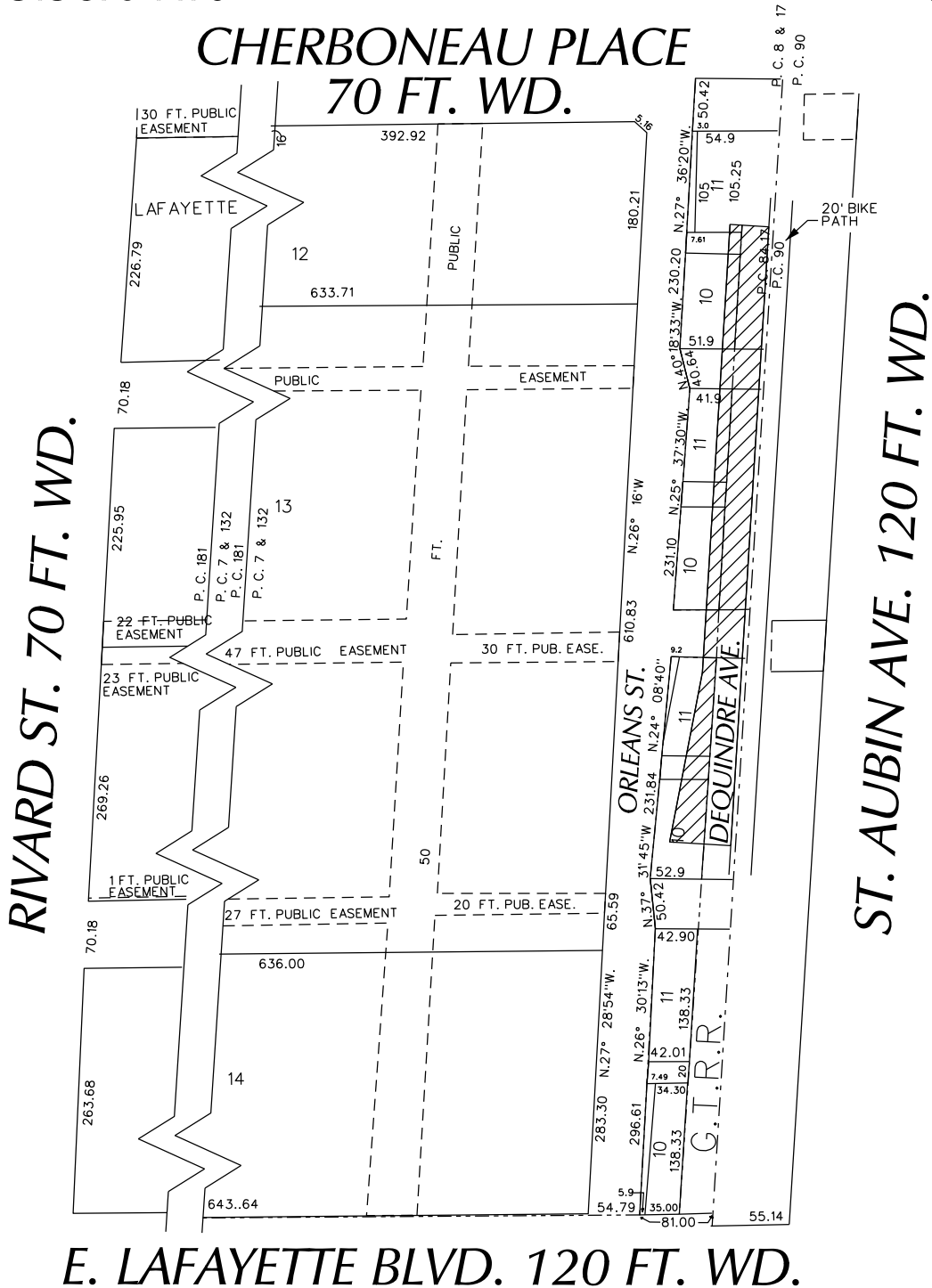
\_\_\_\_\_  
Date

\_\_\_\_\_  
Area code – Telephone number

PETITION NO. 934  
 JONES LANG LASALLE  
 226 E. HUDSON AVE., SUITE 200  
 ROYAL OAK, MICHIGAN 48067  
 C/O RHONDA COLLINS  
 PHONE NO. 313 570-1476



**CHERBONEAU PLACE  
 70 FT. WD.**



- REQUEST ENCROACHMENT  
 (With Performance Space)

(FOR OFFICE USE ONLY)

CARTO 38 B & C

REQUEST ENCROACHMENT  
 A PORTION OF DEQUINDRE AVE.  
 VARIOUS WIDTHS IN THE AREA BOUND BY  
 RIVARD ST., CHERBONEAU PLACE, ST. AUBIN AVE.  
 AND E. LAFAYETTE BLVD.  
 (With Performance Space)

CITY OF DETROIT  
 CITY ENGINEERING DEPARTMENT  
 SURVEY BUREAU

B					
A					
DESCRIPTION		DRWN	CHKD	APPD	DATE
REVISIONS					
DRAWN BY	WLW	CHECKED			
DATE	08-12-16	APPROVED			

JOB NO. 01-01  
 DRWG. NO. X 934

## **PROVISIONS FOR ENCROACHMENT For Petition 934**

Detroit Water and Sewerage (DWSD) agree to the proposed encroachment subject to the fulfilling of the following provisions:

1. By approval of this petition the (DWSD) does not waive any of its rights to its facilities located in the right of way, and at all time, DWSD, its agents or employees, shall have the right to enter upon the right of way to maintain, repair, alter, service, inspect, or install its facilities. All costs incident to the damaging, dismantling, demolishing, removal and replacement of structures or other improvements herein permitted and incurred in gaining access to DWSD's facilities for maintenance, repairing, alteration, servicing or inspection caused by the encroachment shall be borne by the petitioner. All costs associated with gaining access to DWSD's facilities, which could normally be expected had the petitioner not encroached into the right of way shall be borne by DWSD.
2. All construction performed under this petition shall not be commenced until after five (5) days written notice to DWSD. Seventy-two (72) hours notice shall also be provided in accordance with P.A. 53 1974, as amended, utilizing the MISS DIG one call system.
3. Construction under this petition is subject to inspection and approval by DWSD forces. The cost of such inspection shall, at the discretion of DWSD, be borne by the petitioner.
4. If DWSD facilities located within the right of way shall break or be damaged as the result of any action on the part of the petitioner, then in such event the petitioner agrees to be liable for all costs incident to the repair, replacement or relocation of such broken or damaged DWSD facilities.
5. The petitioner shall hold DWSD harmless for any damage to the encroaching device constructed or installed under this petition, which may be caused by the failure of DWSD's facilities.

**PROPERTY CHANGE RECORD**

**PETITION NO:**   x934  

**Name:**   JONES LANG LASALLE  

**Address:**   226 E. HIDSON AVE., SUITE 200 ROYAL OAK, MI. 48067  

**Phone:**   313 570-1476  

**LOCATION / REQUEST:**   ENCROACHMENT A PORTION OF DEQUINDRE AVE. VARIOUS WIDTHS IN THE AREA BOUND BY RIVARD ST., CHERBONEAU PLACE, ST. AUBIN AVE. AND E. LAFAYETTE BLVD. (With Performance Space)  

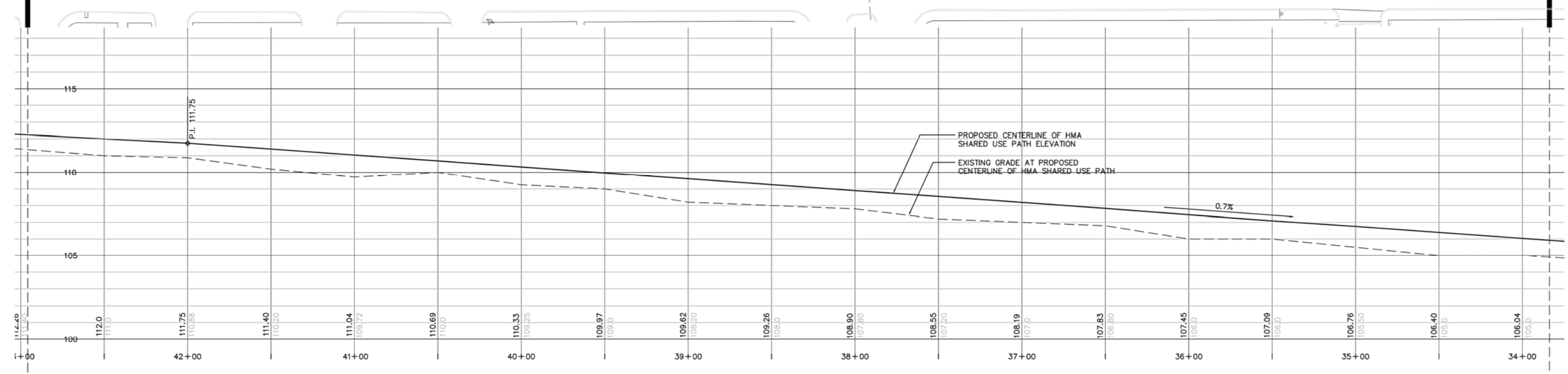
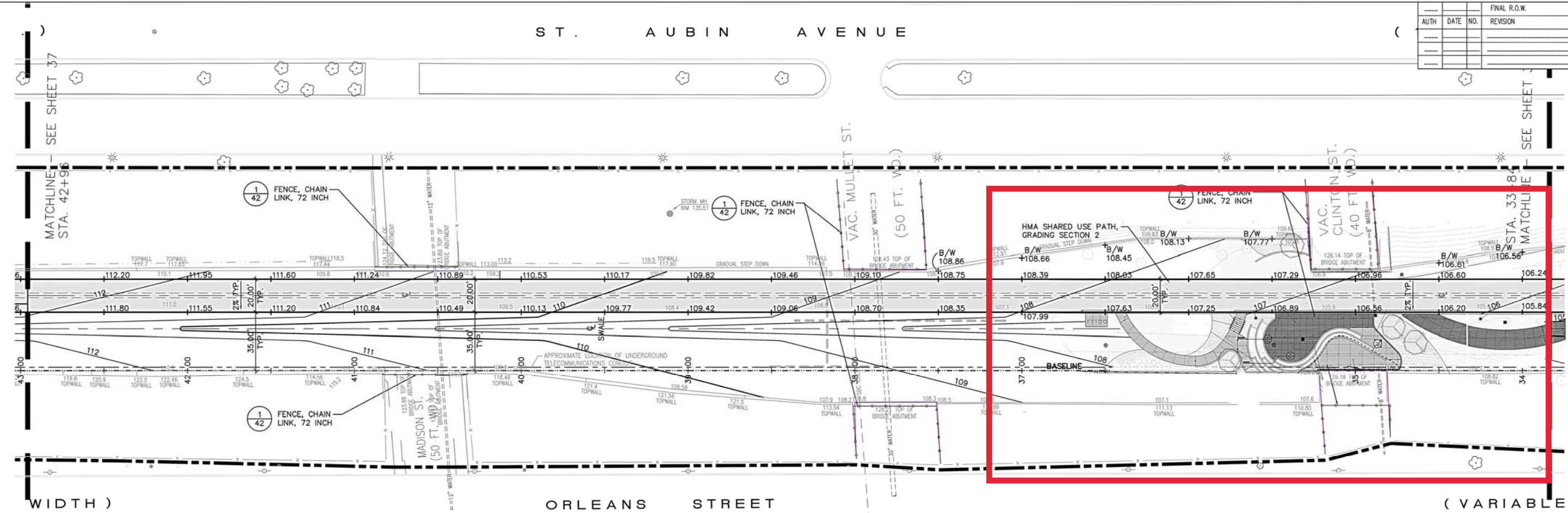
**RECORD OF CITY DEPARTMENT AND PRIVATELY OWNED UTILITY REPLIES**

TO	DATE SENT	RETURN DATE	OK	REMARKS
AT&T Telecommunication	08/12/2016			
Comcast Television (CATV)				
Detroit Edison (DTE-Electric)				
Fire Department				
Great Lakes Water Authority				
Michcon (DTE-Gas)				
Planning & Development Department				
Public Lighting Authority				
Public Lighting Department				
Police Department				
Solid Waste Division, DPW				
Street Design Bureau, DPW				
Street Maintenance Division, DPW				
Traffic Engineering Division, DPW				
Water and Sewerage Department				
Notices:				

EXISTING BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PROPOSED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 LAST CORRECTION BY: \_\_\_\_\_ DATE: \_\_\_\_\_

FILE NAME: P:\24464\000\Dequindre Cut\Cad\Sheet\LAYO\L-03.4-LAYO.dwg USER:icox DATE:Jul, 31 2007 TIME: 12:47 pm  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59

AUTH	DATE	NO.	REVISION	FINAL R.O.W.



**LEGEND**

HMA SHARED USE PATH	
EXISTING CONTOURS	125
PROPOSED CONTOURS	125
PROPOSED SPOT ELEVATION	+102.8
FENCE, CHAINLINK, 72 INCH	
RAILING FOR RAMPS	

**QUANTITIES THIS SHEET**

MDNR QUANTITY	MDOT QUANTITY	UNIT	ITEM
912	---	Ft	HMA Shared Use Path, Grading, Section 2
1642	547	Syd	Aggregate Base, 6 inch
162	58	Ton	HMA, 3C
122	44	Ton	HMA, 4C
355	255	Ft	Fence, Chain Link, 72 inch

3 WORKING DAYS BEFORE YOU DIG CALL MISS DIG 1-800-482-7171

NORTH

**SITE LAYOUT & GRADING PLAN**

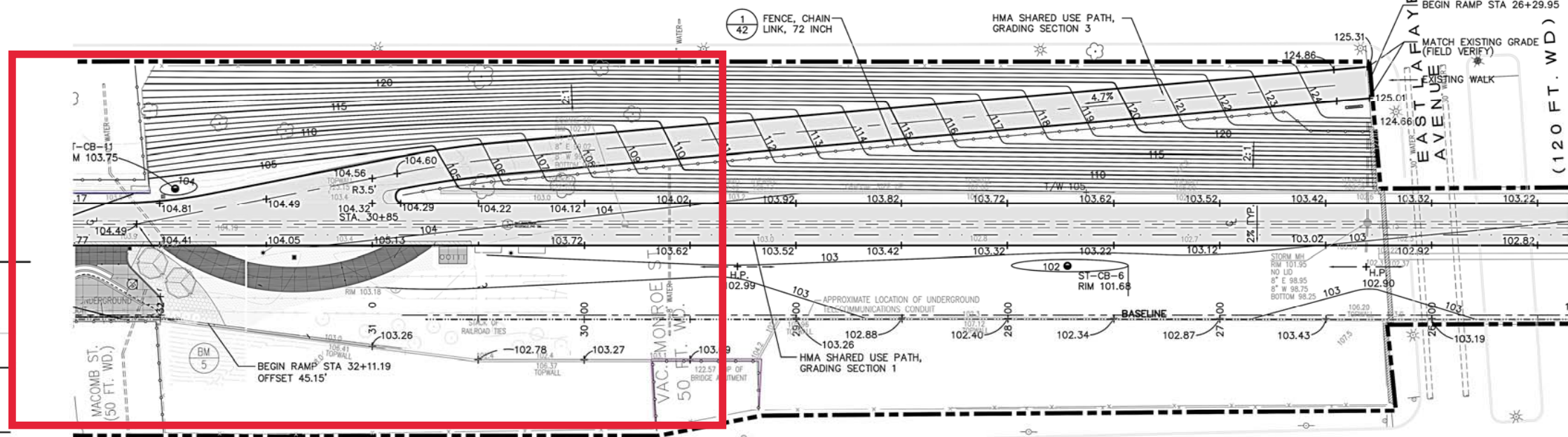
DATE	SCALE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
08/01/07	1"=30'	82702	82619A		R.O.W. 37

EXISTING BY: DATE: PROPOSED BY: DATE: LAST CORRECTION BY: DATE:

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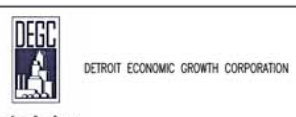
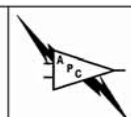
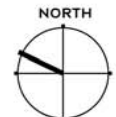
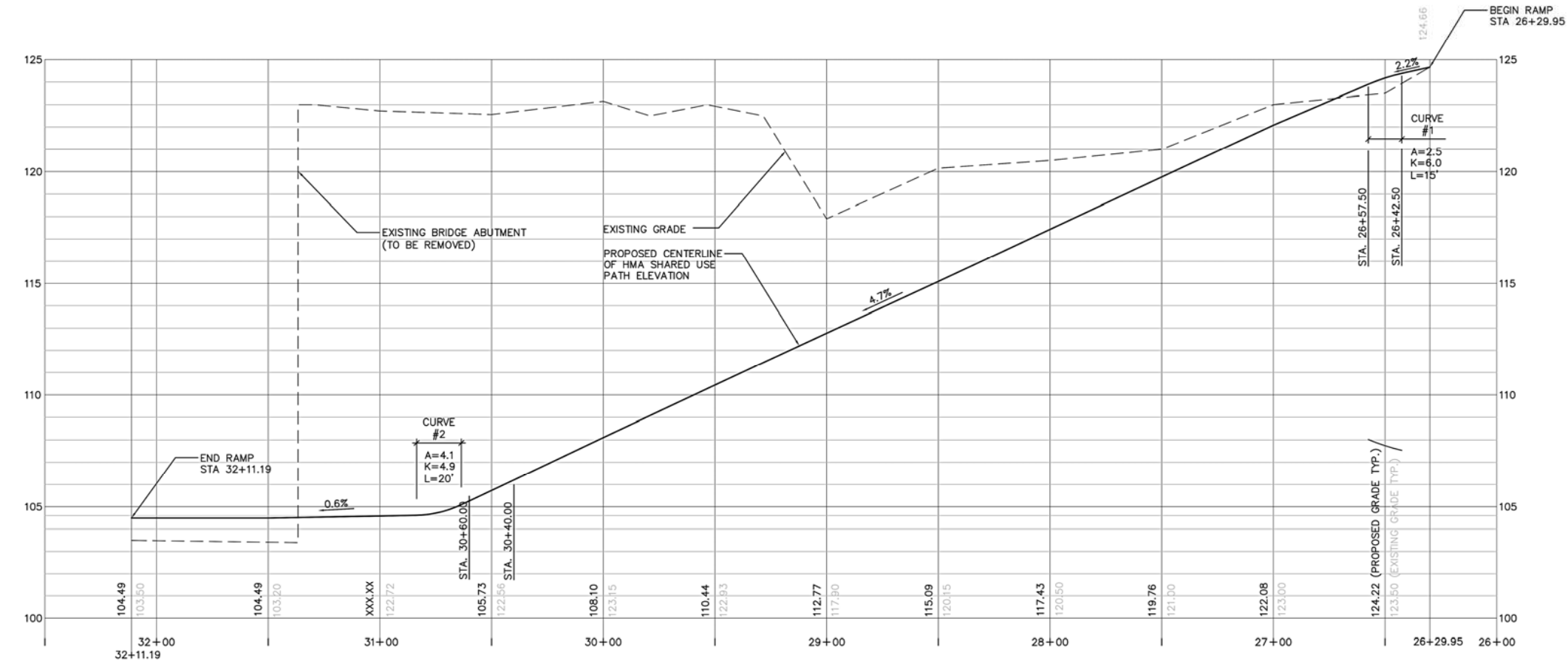
FINAL R.O.W.			
AUTH	DATE	NO.	REVISION

ST. AUBIN AVENUE



**LEGEND**

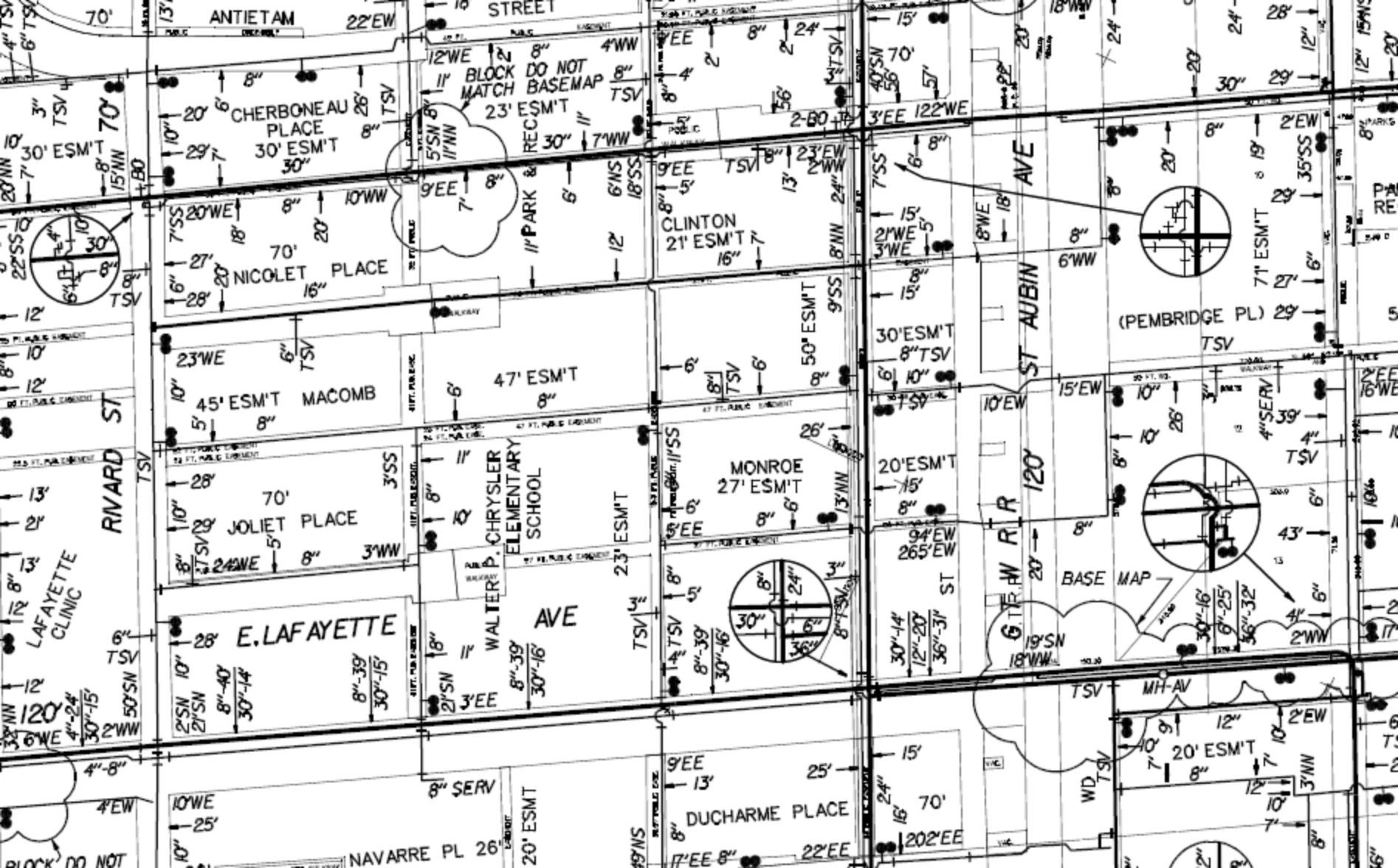
HMA SHARED USE PATH	
EXISTING CONTOURS	125
PROPOSED CONTOURS	125
PROPOSED SPOT ELEVATION	+102.8
FENCE, CHAINLINK, 72 INCH	

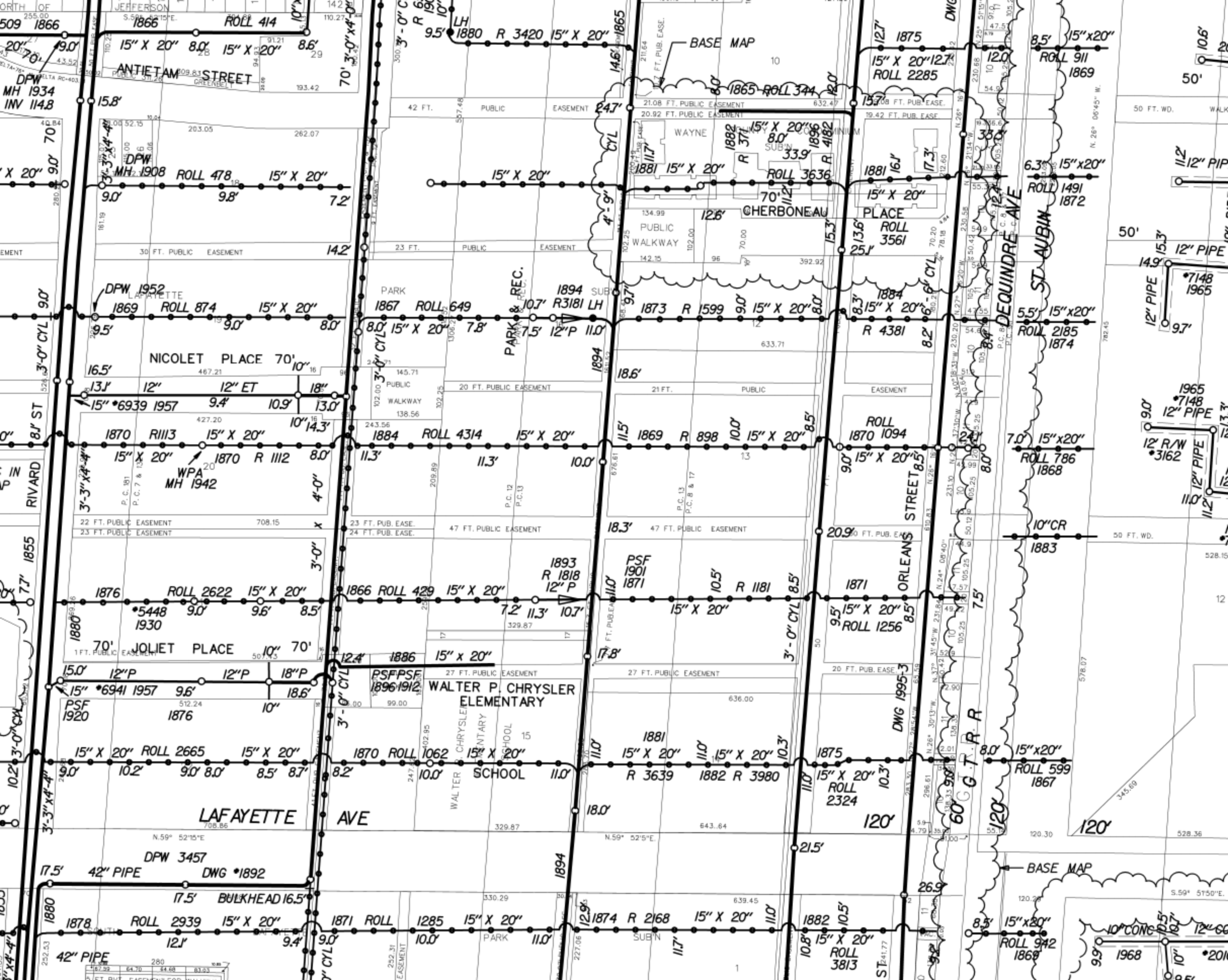


LAFAYETTE RAMP PLAN AND PROFILE

DATE	SCALE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
08/01/07	1"=30'	82702	82619A		36







JEFFERSON  
ROLL 414  
ANTIETAM STREET  
DPW MH 1934 INV 114.8

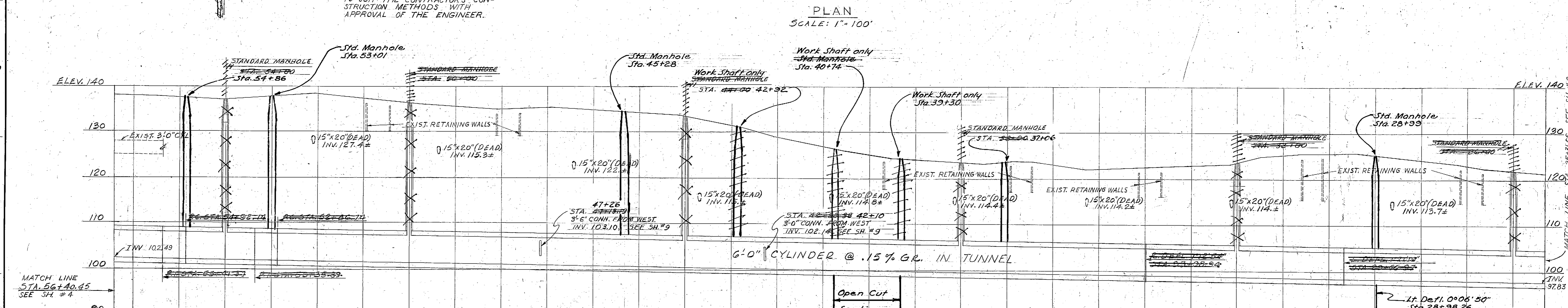
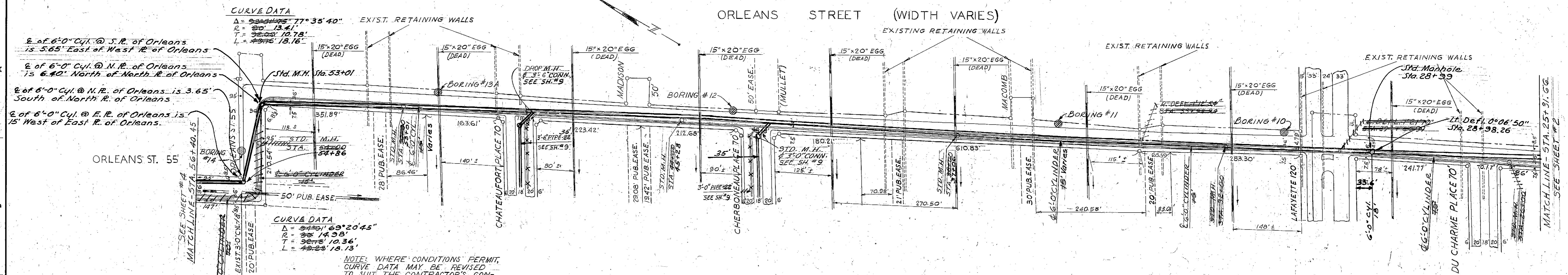
BASE MAP  
1875  
ROLL 2285  
ROLL 911  
1869

DPW 1952  
ROLL 874  
15" X 20"  
NICOLET PLACE 70' 10"

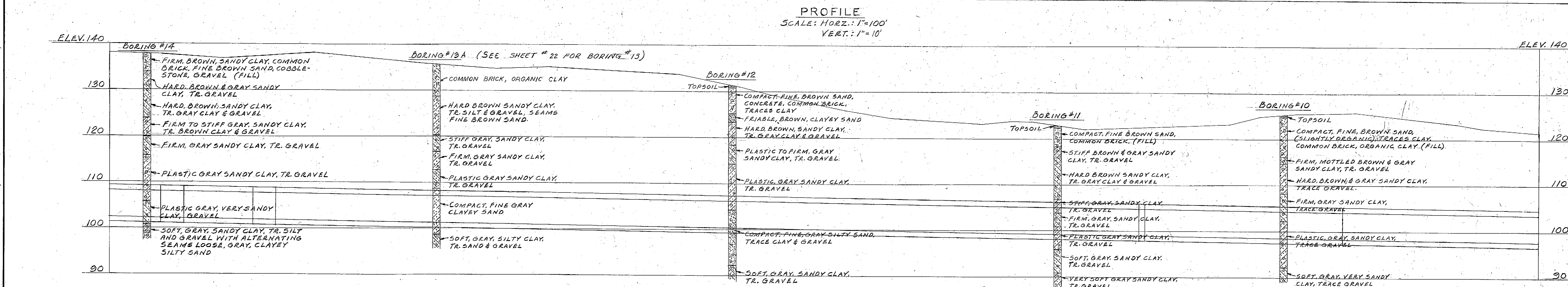
PSFPSE  
1896/1912  
WALTER P. CHRYSLER  
ELEMENTARY  
SCHOOL

LAFAYETTE AVE  
DPW 3457  
DWG \*1892  
BULKHEAD 16.5'  
ROLL 2939  
15" X 20"  
ROLL 2185  
1874

DEQUINRE AVE  
ST. AUBIN  
ORLEANS STREET  
60' G.T.P.R.  
DWG 1995-3



STATION	56+00	55+00	54+00	53+00	52+00	51+00	50+00	49+00	48+00	47+00	46+00	45+00	44+00	43+00	42+00	41+00	40+00	39+00	38+00	37+00	36+00	35+00	34+00	33+00	32+00	31+00	30+00	29+00	28+00	27+00	26+00
SURF. ELEV.	137.8	137.4	136.9	137.6	138.2	137.5	136.3	135.5	134.9	135.3	134.7	134.1	133.5	131.5	128.9	126.8	125.2	124.2	123.6	123.7	123.1	122.1	122.6	122.9	123.5	125.2	125.6	125.3	124.3	123.0	121.9
INVERT ELEV.	102.43	102.28	102.13	101.98	101.83	101.68	101.53	101.38	101.23	101.08	100.93	100.78	100.63	100.48	100.33	100.18	100.03	99.88	99.73	99.58	99.43	99.28	99.13	98.98	98.83	98.68	98.53	98.38	98.23	98.08	97.93
DEPTH	35.4	35.1	34.8	35.6	36.4	35.8	34.8	34.1	33.7	34.2	33.8	33.3	32.9	31.0	28.6	26.6	25.2	24.3	23.9	24.1	23.7	22.8	23.5	23.9	24.7	26.5	27.1	26.9	26.1	24.9	24.0



Completed by Joy Dee Contractors & Michigan Sewer Construction Co., Oct. 12, 1967.

MICH. DEPT. OF HEALTH CONSTRUCTION PERMIT NO. 27407

DCD-31-87

SHEET 3 OF 25 SHEETS

CONTRACT No. PW 5723

DRWG No. 1995-3

DATE 2-1-66

CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS OFFICE  
 FOR  
 THE DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: A. Stale  
 DRAWN BY: John W. Dunwo  
 TRACED BY: John W. Dunwo  
 CHECKED BY: J.E. Duke

APPROVED: [Signature]  
 SANITARY ENGINEER

APPROVED: [Signature]  
 CITY ENGINEER

REVISIONS LOCATED BY COORDINATES ON SHEET

DETROIT RIVERFRONT CONSERVANCY  
DETROIT, MI

# CAMPBELL MEMORIAL TERRACE

DETROIT, MI

ISSUED FOR BIDS

20 JAN 2016

HAMILTON ANDERSON PROJECT NUMBER: 2015061.00

## HamiltonAnderson

architecture landscape architecture urban design

BIDS 20 JAN 2016

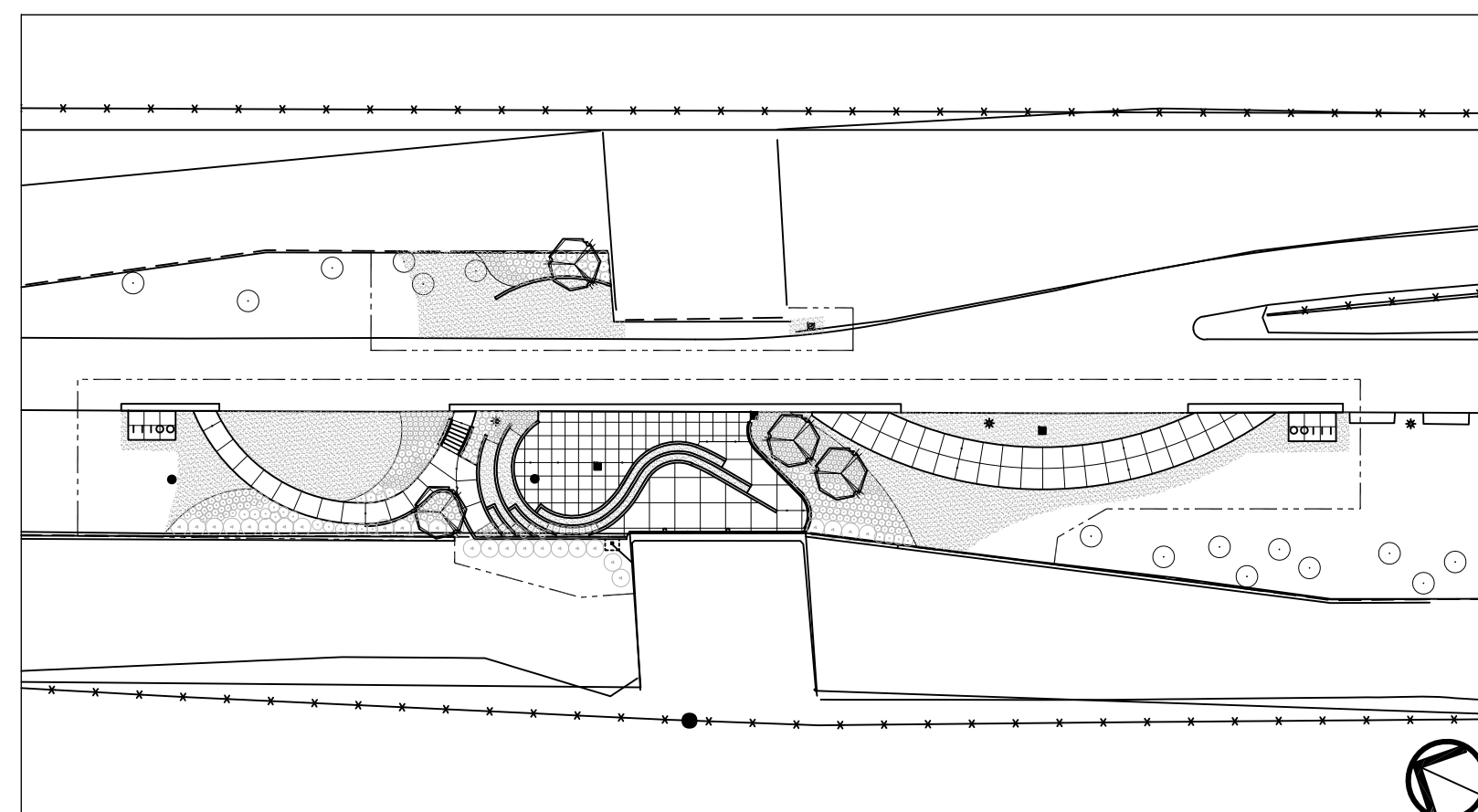
### DRAWING INDEX

- COVER COVER SHEET
- 1 OF 1 TOPOGRAPHIC SURVEY
- C4.1 SITE DEMOLITION PLAN
- C5.1 SITE MATERIALS PLAN
- C5.2 SITE LAYOUT PLAN
- C6.1 SITE GRADING PLAN
- C7.1 STORM SEWER PLAN
- C8.1 SITE DETAILS
- C8.2 SITE DETAILS
- L1.1 LANDSCAPE PLAN
- L2.1 LANDSCAPE DETAILS
- A1.1 CANOPY ROOF PLAN AND ELEVATIONS
- A1.2 ROOF DETAILS/NOTES
- S-1 GENERAL NOTES AND ABBREVIATIONS
- S-2 EXISTING ABUTMENT MODIFICATION PLAN & ELEVATIONS
- S-3 EXISTING ABUTMENT MODIFICATION DETAILS
- S-4 CANOPY FOUNDATION PLAN
- S-5 CANOPY PLAN
- S-6 CANOPY SECTIONS-1
- S-7 CANOPY SECTIONS-2
- S-8 SCHEDULES AND DETAILS
- S-9 DETAILS
- S-10 DETAILS

LOCATION MAP



SITE MAP



PROJECT IMAGE



DESIGN TEAM

### OWNER

DETROIT RIVERFRONT CONSERVANCY  
600 RENAISSANCE CENTER  
Suite 1720  
DETROIT, MI 48243  
P 313 566 8200  
[www.detroitriverfront.org](http://www.detroitriverfront.org)

### ARCHITECT/ LANDSCAPE ARCHITECT

HAMILTON ANDERSON ASSOCIATES  
1435 RANDOLPH  
SUITE 200  
DETROIT, MI 48226  
P 313 964 0270  
F 313 964 0170  
[www.hamilton-anderson.com](http://www.hamilton-anderson.com)

### CIVIL, ELECTRICAL AND STRUCTURAL ENGINEER

WADE TRIM  
511 GRISWOLD  
SUITE 2500  
DETROIT, MI 48226  
P 313 961 3650  
[www.wadetrim.com](http://www.wadetrim.com)

CLIENT

**DETROIT RIVERFRONT  
CONSERVANCY**  
600 RENAISSANCE CENTER, SUITE 1720  
DETROIT, MI 48243

Key Plan

BIDS 20 JAN 2016

Project

**CAMPBELL MEMORIAL  
TERRACE**

Drawing Title

**SITE DEMOLITION PLAN**

Project Number: 2015061.00

Drawn By: GCR Approved By: BJ

Scale:

Seat:

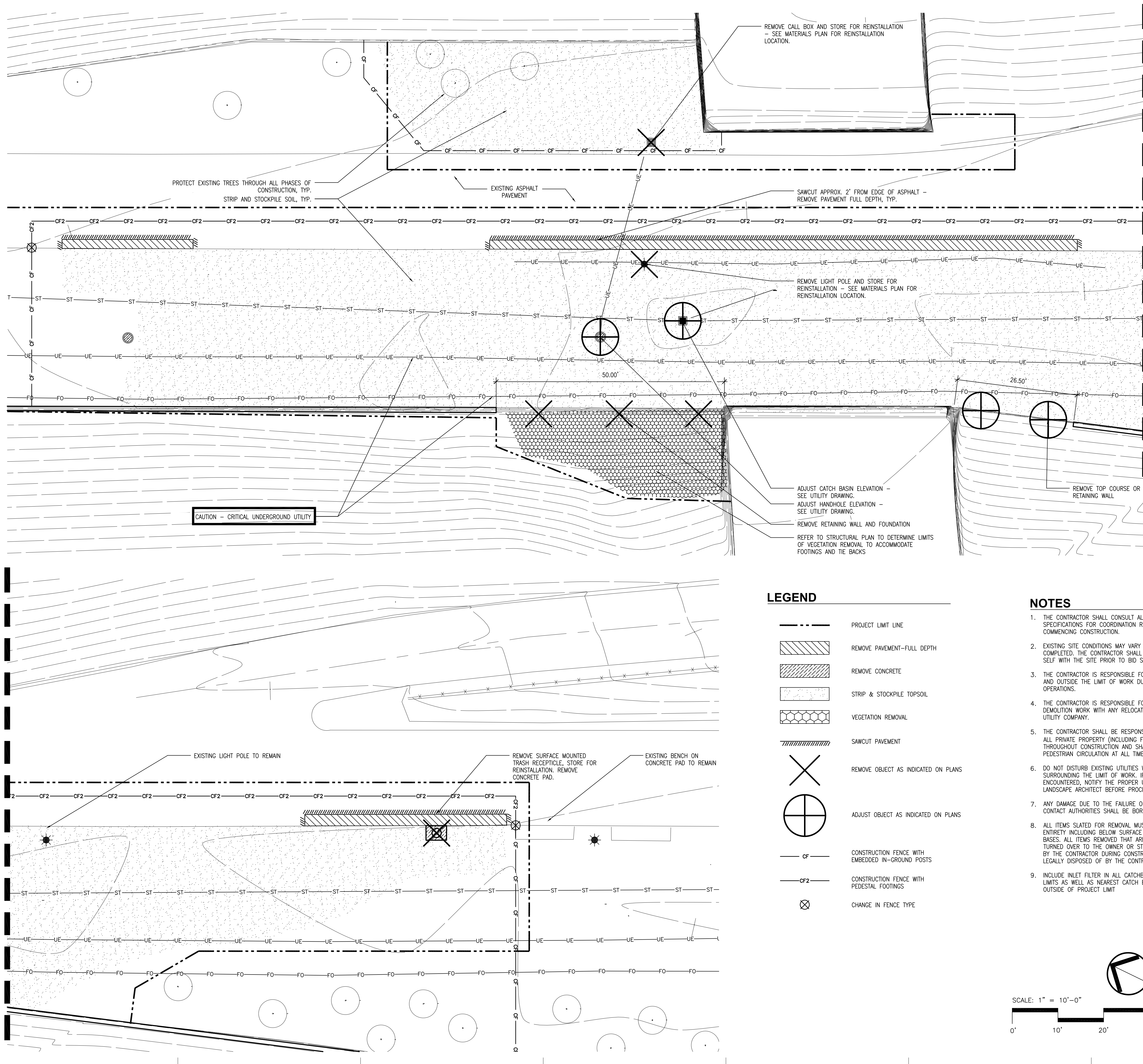
Signature:

Drawing No:

**C4.1**

MATCHLINE - SEE BELOW

MATCHLINE - SEE ABOVE

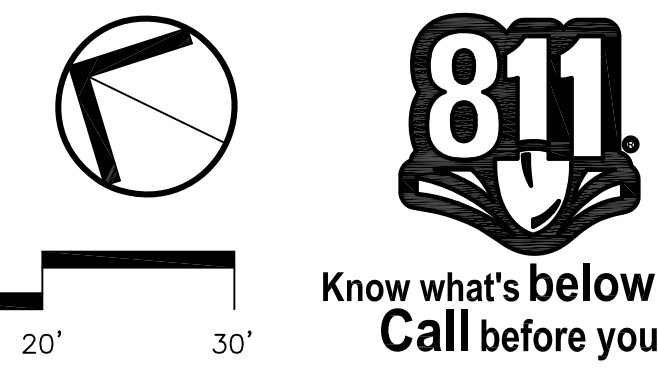
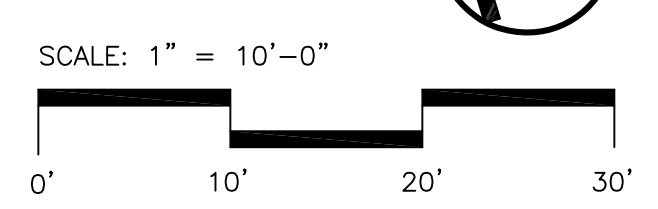


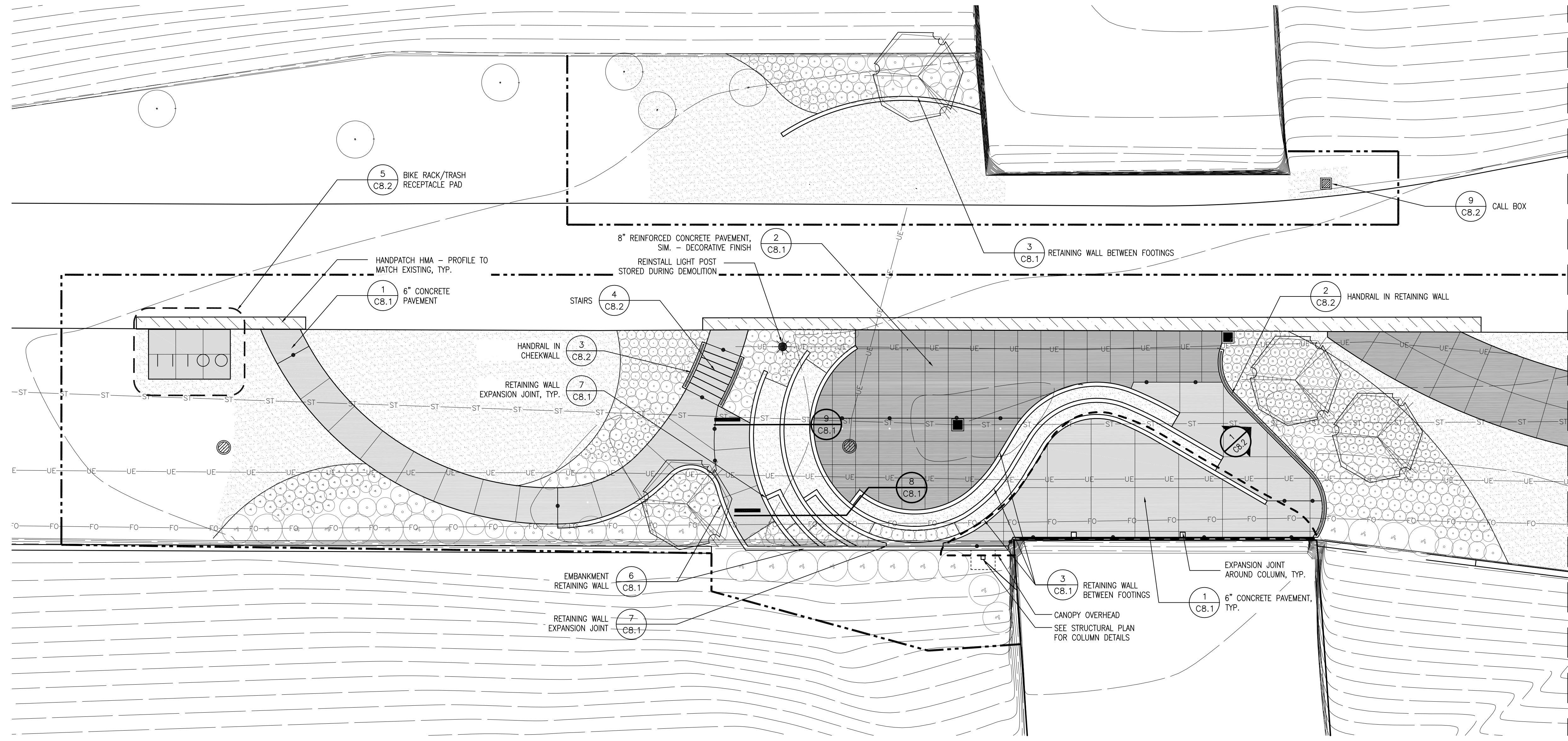
**LEGEND**

- PROJECT LIMIT LINE
- REMOVE PAVEMENT-FULL DEPTH
- REMOVE CONCRETE
- STRIP & STOCKPILE TOPSOIL
- VEGETATION REMOVAL
- SAWCUT PAVEMENT
- REMOVE OBJECT AS INDICATED ON PLANS
- ADJUST OBJECT AS INDICATED ON PLANS
- CONSTRUCTION FENCE WITH EMBEDDED IN-GROUND POSTS
- CONSTRUCTION FENCE WITH PEDESTAL FOOTINGS
- CHANGE IN FENCE TYPE

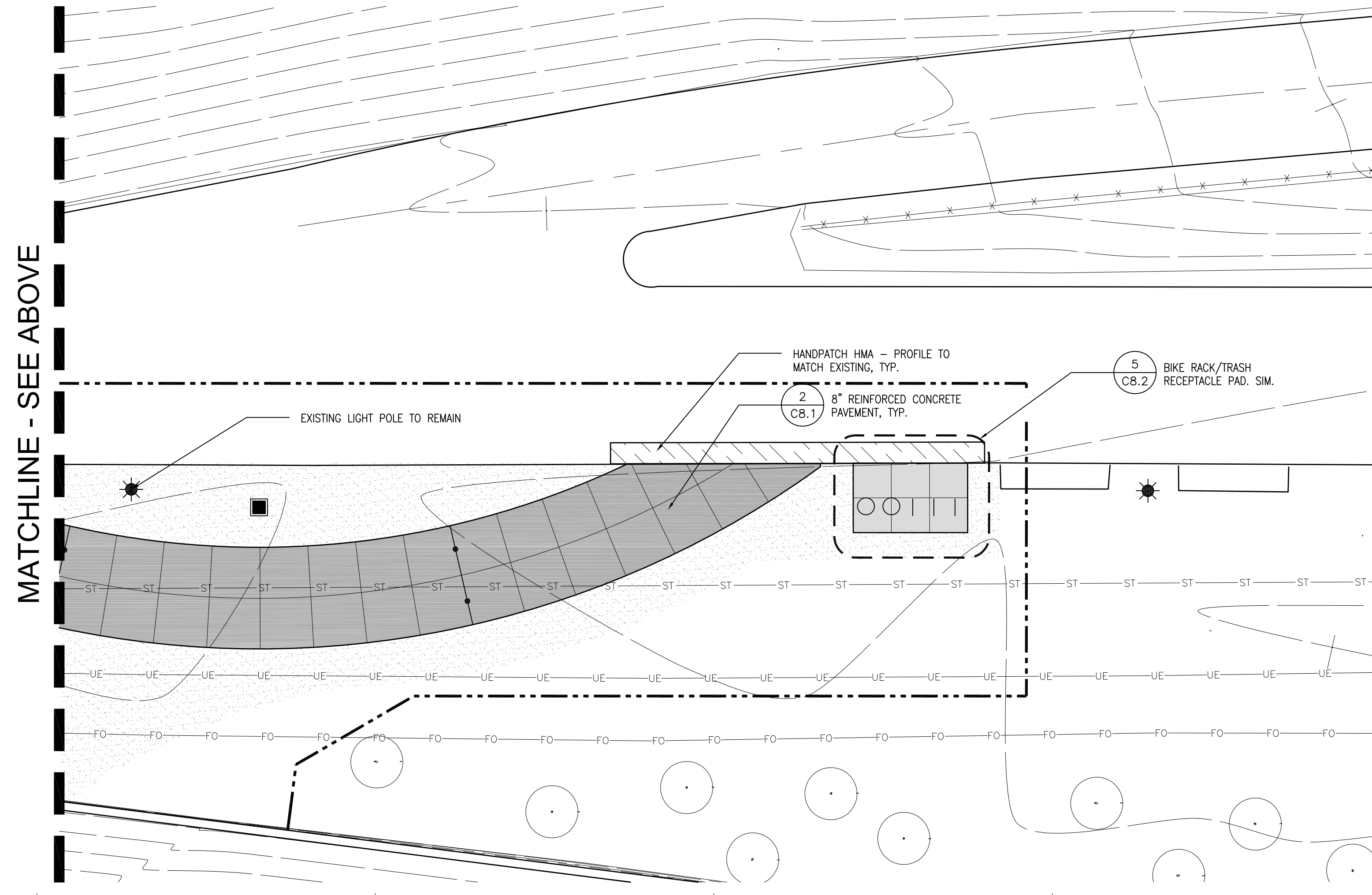
**NOTES**

1. THE CONTRACTOR SHALL CONSULT ALL DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS PRIOR TO COMMENCING CONSTRUCTION.
2. EXISTING SITE CONDITIONS MAY VARY SINCE SURVEY WAS COMPLETED. THE CONTRACTOR SHALL FAMILIARIZE HIM OR HER SELF WITH THE SITE PRIOR TO BID SUBMISSION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK DUE TO CONTRACTOR OPERATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DEMOLITION WORK WITH ANY RELOCATION OF UTILITIES BY THE UTILITY COMPANY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PRIVATE PROPERTY (INCLUDING FOUNDATIONS) THROUGHOUT CONSTRUCTION AND SHALL MAINTAIN SAFE PEDESTRIAN CIRCULATION AT ALL TIMES.
6. DO NOT DISTURB EXISTING UTILITIES WHICH SERVE AREAS SURROUNDING THE LIMIT OF WORK. IF SUCH UTILITIES ARE ENCOUNTERED, NOTIFY THE PROPER UTILITY COMPANY AND LANDSCAPE ARCHITECT BEFORE PROCEEDING.
7. ANY DAMAGE DUE TO THE FAILURE OF THE CONTRACTOR TO CONTACT AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
8. ALL ITEMS SLATED FOR REMOVAL MUST BE REMOVED IN ENTIRETY INCLUDING BELOW SURFACE FOUNDATIONS AND BASES. ALL ITEMS REMOVED THAT ARE NOT SLATED TO BE TURNED OVER TO THE OWNER OR STOCKPILED FOR LATE USE BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
9. INCLUDE INLET FILTER IN ALL CATCHBASINS WITHIN PROJECT LIMITS AS WELL AS NEAREST CATCH BASIN IN ALL DIRECTIONS OUTSIDE OF PROJECT LIMIT





MATCHLINE - SEE BELOW



MATCHLINE - SEE ABOVE

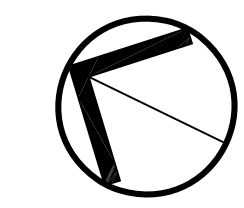
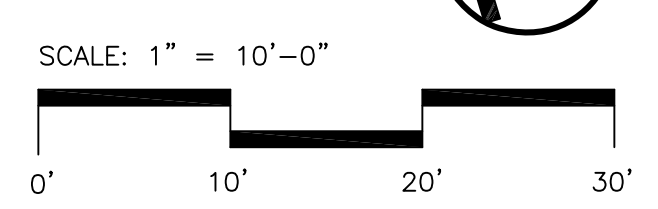
**LEGEND**

- PROJECT LIMIT LINE
- TURF (SOD)
- 6" CONCRETE
- 8" REINFORCED CONCRETE
- EXPANSION JOINT
- LIGHT POLE & FOUNDATION
- CATCH BASIN
- MANHOLE
- ELECTRICAL HANDHOLE

- PERENNIAL OR SHRUB
- ORNAMENTAL TREE
- DECIDUOUS TREE

**NOTES**

1. DECORATIVE CONCRETE FINISH ONLY WHERE NOTED. SEE SPECS FOR FINISH INFORMATION.



Know what's below.  
 Call before you dig.

CLIENT

**DETROIT RIVERFRONT  
CONSERVANCY**  
600 RENAISSANCE CENTER, SUITE 1720  
DETROIT, MI 48243

Key Plan

BIDS 20 JAN 2016

Project  
**CAMPBELL MEMORIAL  
TERRACE**

Drawing Title  
**SITE LAYOUT PLAN**

Project Number: **2015061.00**

Drawn By: **GCR** Approved By: **BJ**

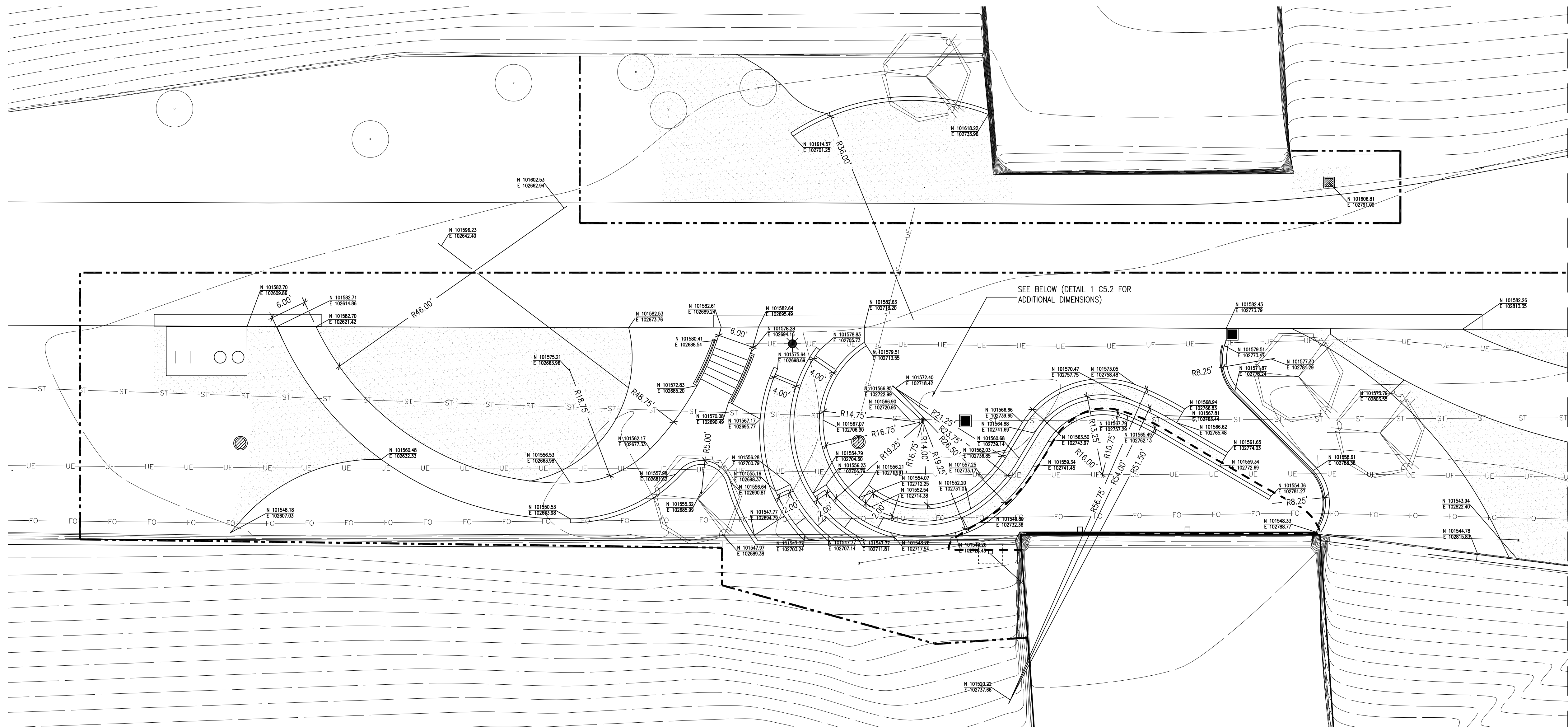
Scale:

Seat:

Signature: \_\_\_\_\_

Drawing No:

**C5.2**



MATCHLINE - SEE BELOW

**LEGEND**

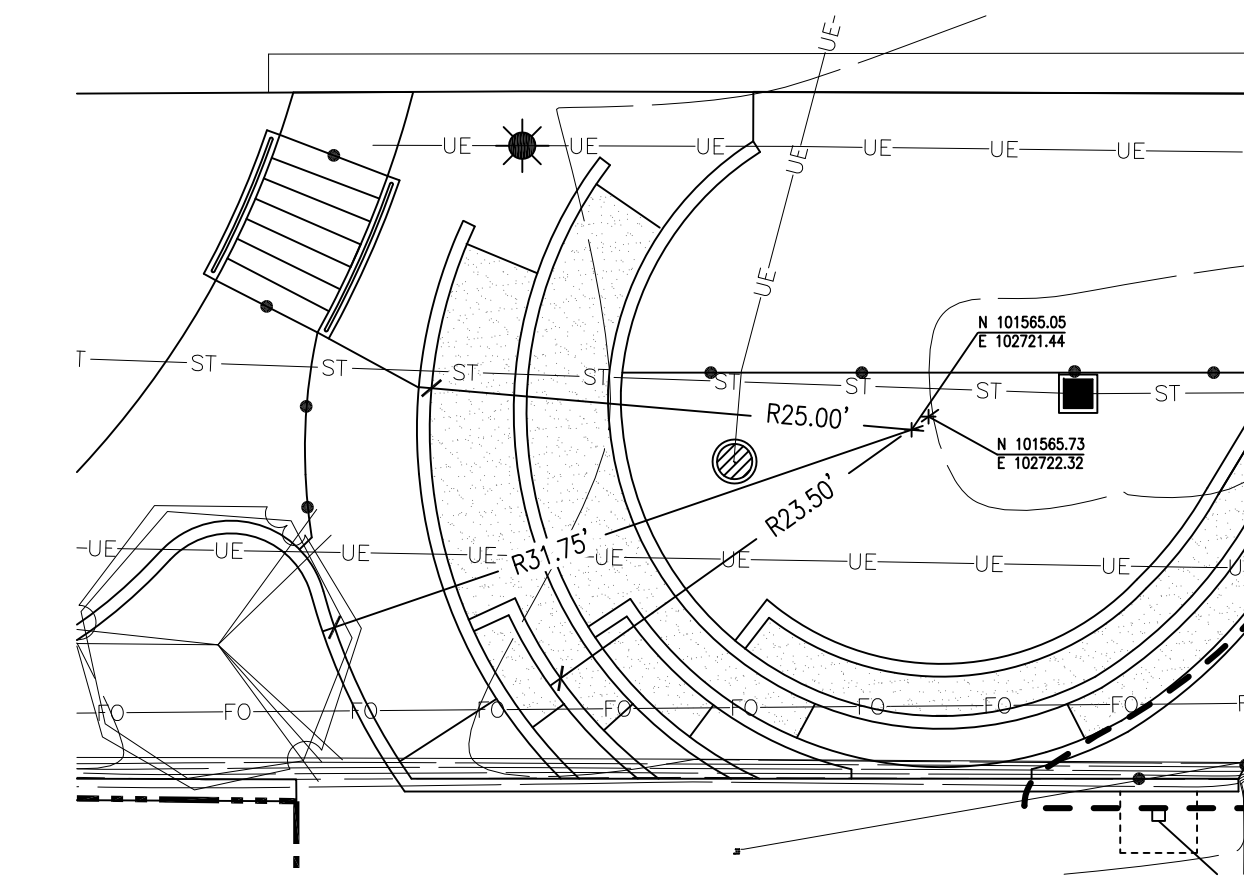
- PROJECT LIMIT LINE
- TURF (SOD)
- LIGHT POLE & FOUNDATION
- CATCH BASIN
- MANHOLE
- ELECTRICAL HANDHOLE
- ORNAMENTAL TREE
- DECIDUOUS TREE

**NOTES**

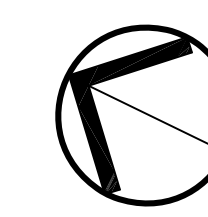
1. ALL RADII TAKEN FROM FACE OF CONCRETE RETAINING WALLS UNLESS NOTED OTHERWISE.
2. CONTACT LANDSCAPE ARCHITECT TO CONFIRM FORM LOCATIONS AND RADII PRIOR TO PLACING CONCRETE.

**1  
C5.2** **ADDITIONAL RETAINING  
WALL DIMENSIONS**

SCALE: 1"=10'-0"

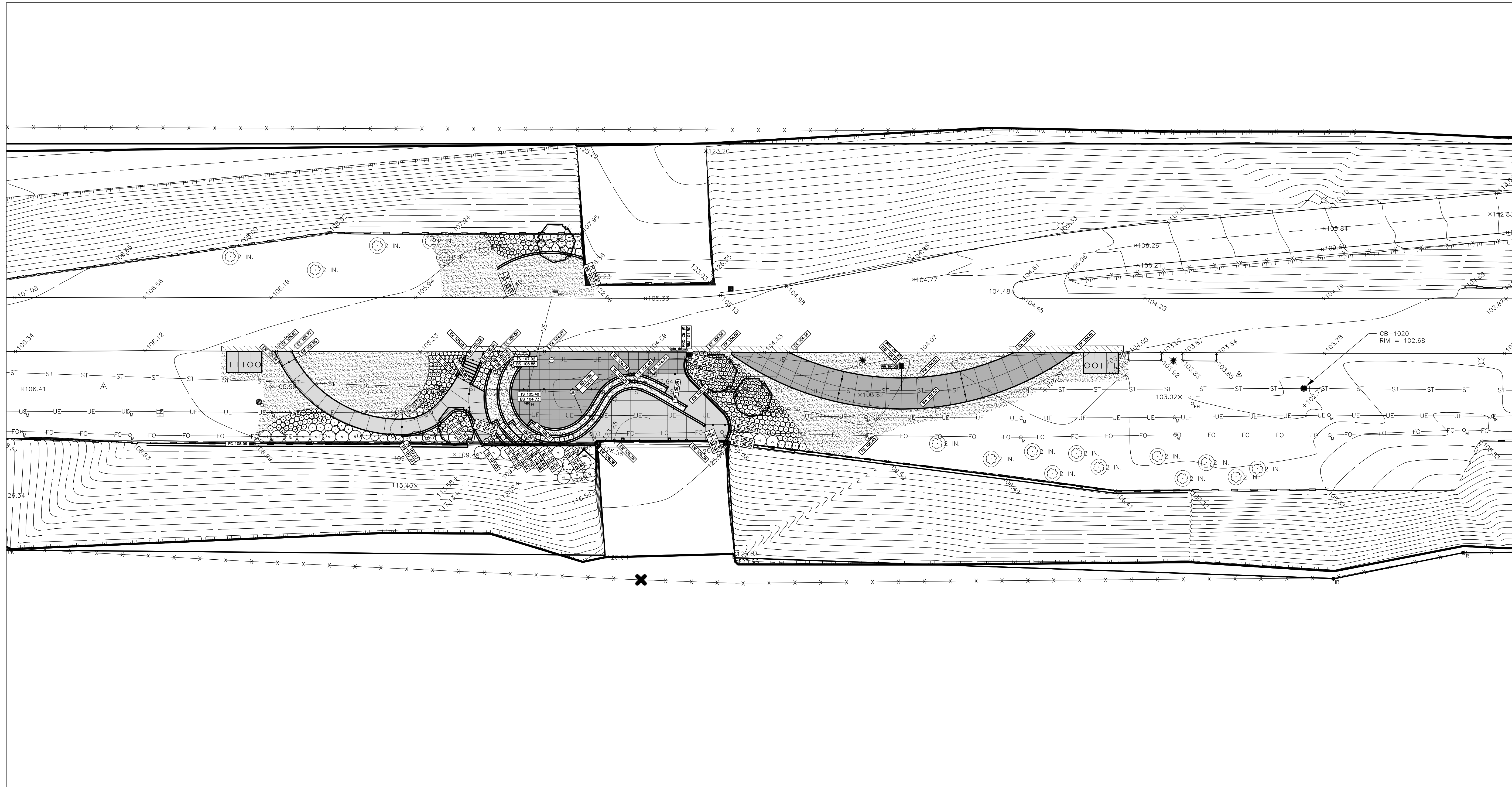


SCALE: 1" = 10'-0"



Know what's below.  
Call before you dig.

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**DETROIT RIVERFRONT  
 CONSERVANCY**  
 600 RENAISSANCE CENTER, SUITE 1720  
 DETROIT, MI 48243

Key Plan

BIDS 11 JAN 2016

Project

**CAMPBELL MEMORIAL  
 TERRACE**

Drawing Title

**PROPOSED GRADING  
 PLAN**

Project Number: **2015061.00**

Drawn By: **MFF** Approved By: **VCM**

Scale:

Seal:

Signature: \_\_\_\_\_

Drawing No:

**C6.1**





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DETROIT, MI 48243

Key Plan

BIDS 11 JAN 2016

Project

**CAMPBELL MEMORIAL TERRACE**

Drawing Title

**PROPOSED STORM SEWER PLAN**

Project Number: **2015061.00**

Drawn By: **CGT** Approved By: **VCN**

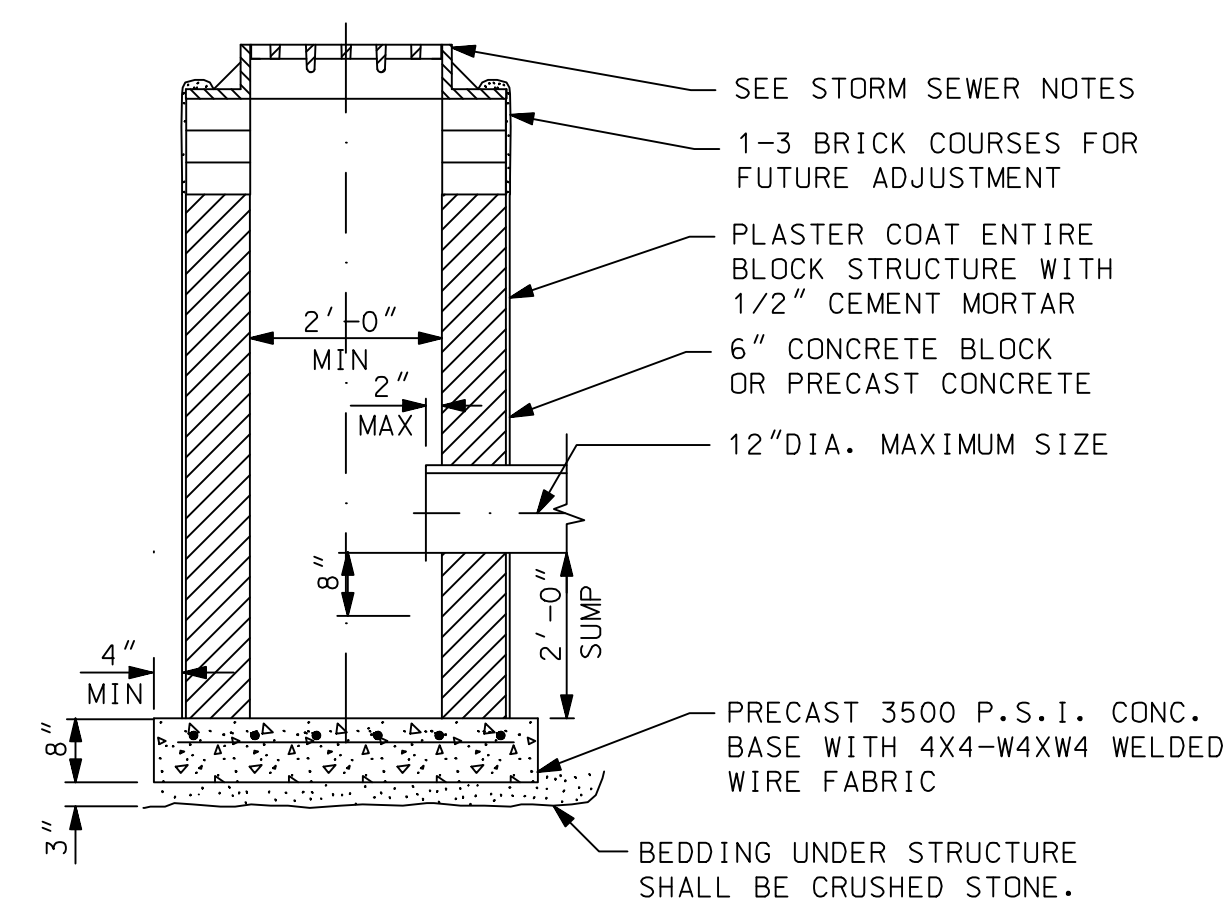
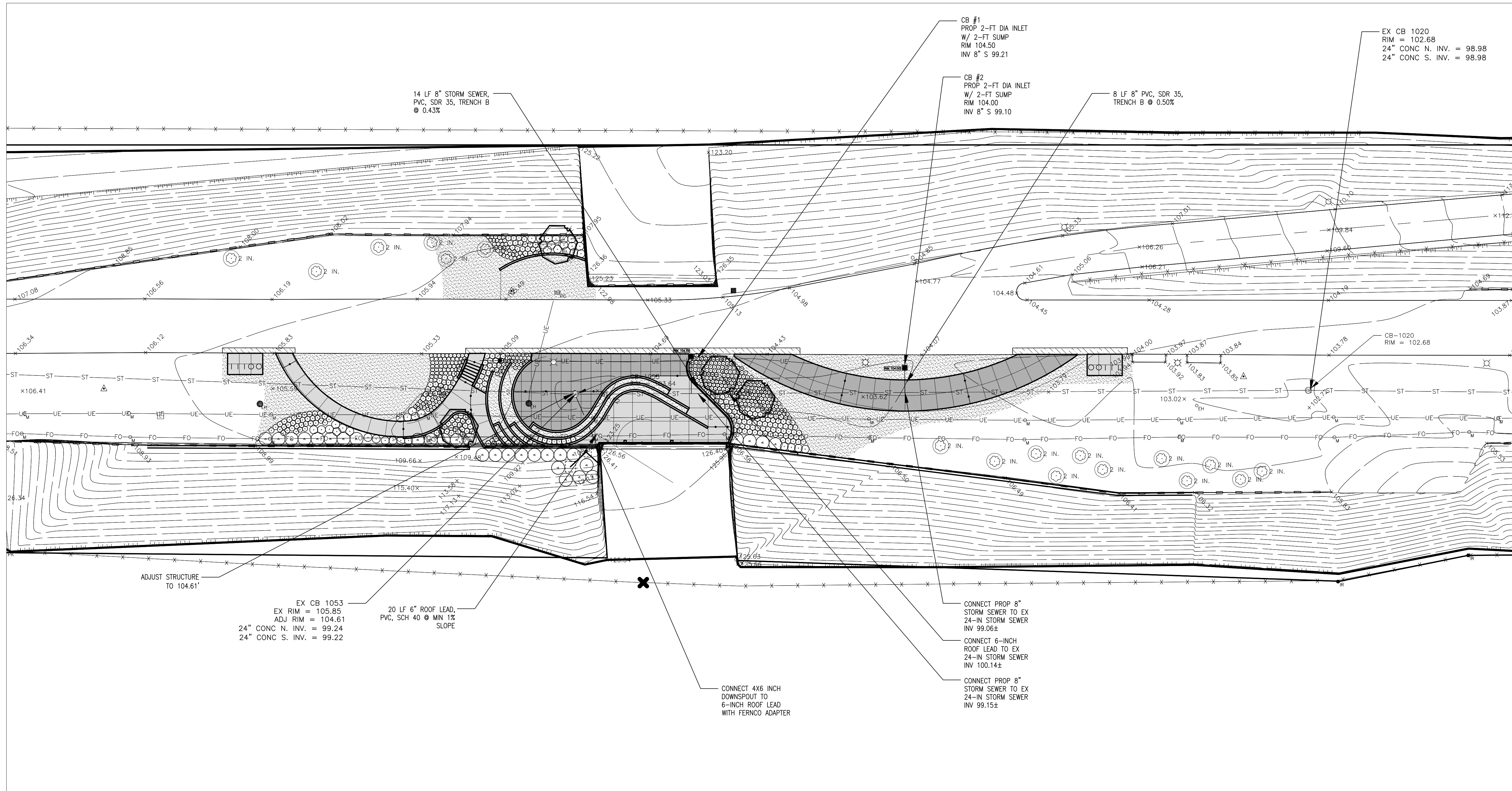
Scale:

Seal:

Signature: \_\_\_\_\_

Drawing No:

**C7.1**



STANDARD INLET W/ 2' SUMP  
NOT TO SCALE

**NOTES**

1. CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES BEFORE INSTALLING PROPOSED UTILITIES TO ENSURE THERE ARE NO CONFLICTS.
2. CONTRACTOR SHALL USE KOR-N-TEE CONNECTOR TO CONNECT STORM SEWER TO EX. 24-INCH STORM SEWER.
3. CONTRACTOR SHALL USE BOX OUT IN RETAINING WALL FOUNDATION FOR 6-INCH ROOF LEAD CONNECTION TO DOWNSPOUT. REMAINING VOID TO BE FILLED WITH MORTAR.
4. USE 24" STANDARD A.D.A. COVER AND TYPE S FRAME FROM WWW.URBANACCESSORIES.COM OR EQUIVALENT FOR STRUCTURE ADJUSTMENT IN DANCE FLOOR AREA.
5. USE 18" STANDARD A.D.A. COVER AND TYPE S FRAME FROM WWW.URBANACCESSORIES.COM OR EQUIVALENT FOR REMAINING STRUCTURES.

**ESTIMATED QUANTITIES THIS SHEET**

2	EA	STANDARD STORM INLET W/ 2' SUMP
2	EA	CONNECT 8-INCH STORM SEWER TO EX 24-INCH STORM SEWER
1	EA	CONNECT 6-INCH ROOF LEAD TO EX 24-INCH STORM SEWER
20	LF	6-INCH ROOF LEAD, PVC, SCH 40
22	LF	8-INCH STORM SEWER, PVC, SDR 35, TRENCH B
1	EA	6X4-INCH TO 6-INCH DIA FERNCO ADAPTER
1	EA	CONNECT TO EX CATCH BASIN WITH 6-INCH KOR-N-TEE CONNECTOR
2	EA	CONNECT TO EX 24-INCH STORM SEWER WITH 8-INCH KOR-N-TEE CONNECTOR
1	EA	ADJUST CATCH BASIN



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Project

**CAMPBELL MEMORIAL  
TERRACE**

Drawing Title

**SITE DETAILS**

Project Number: 2015061.00

Drawn By: GCR Approved By: BJ

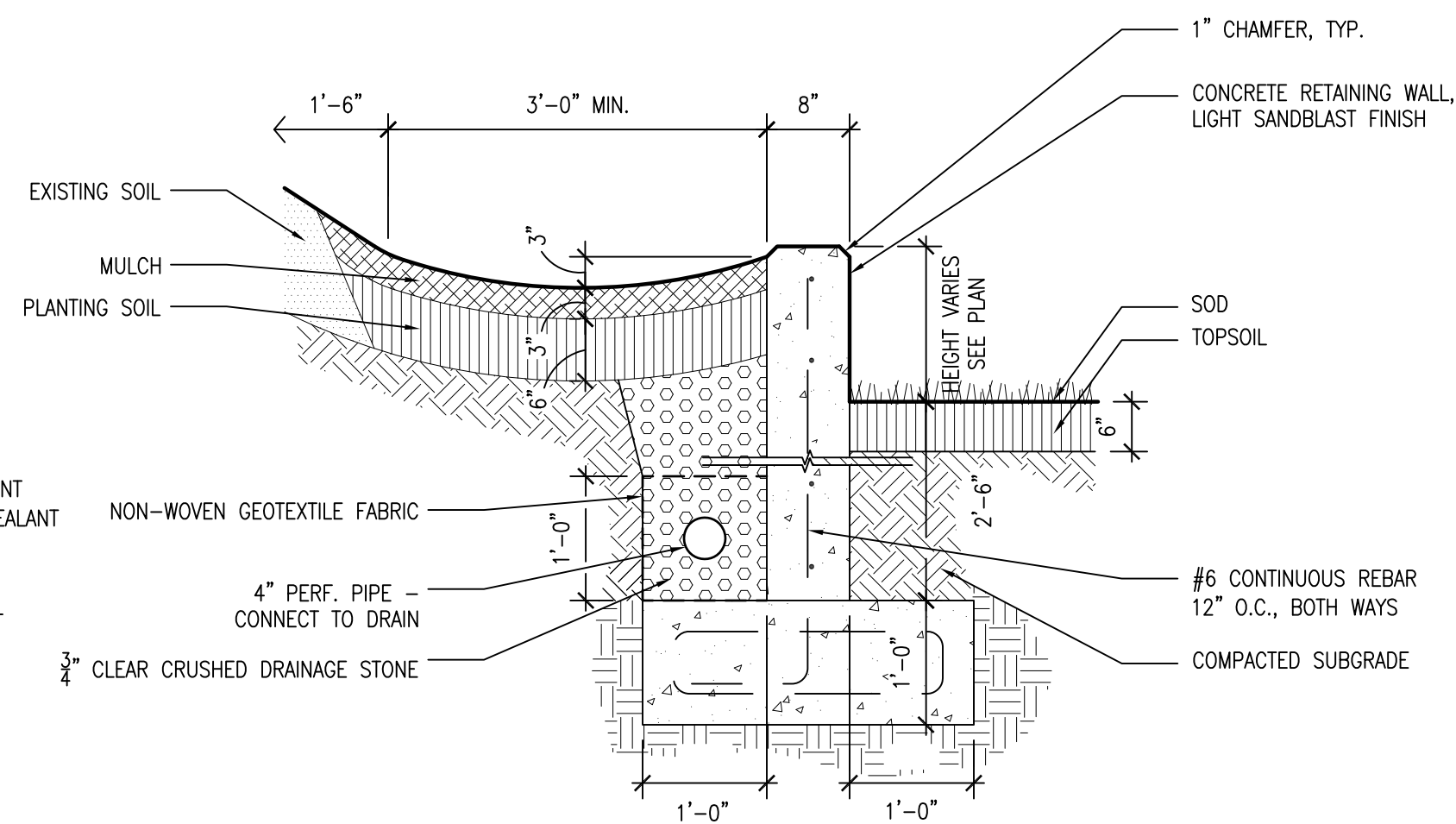
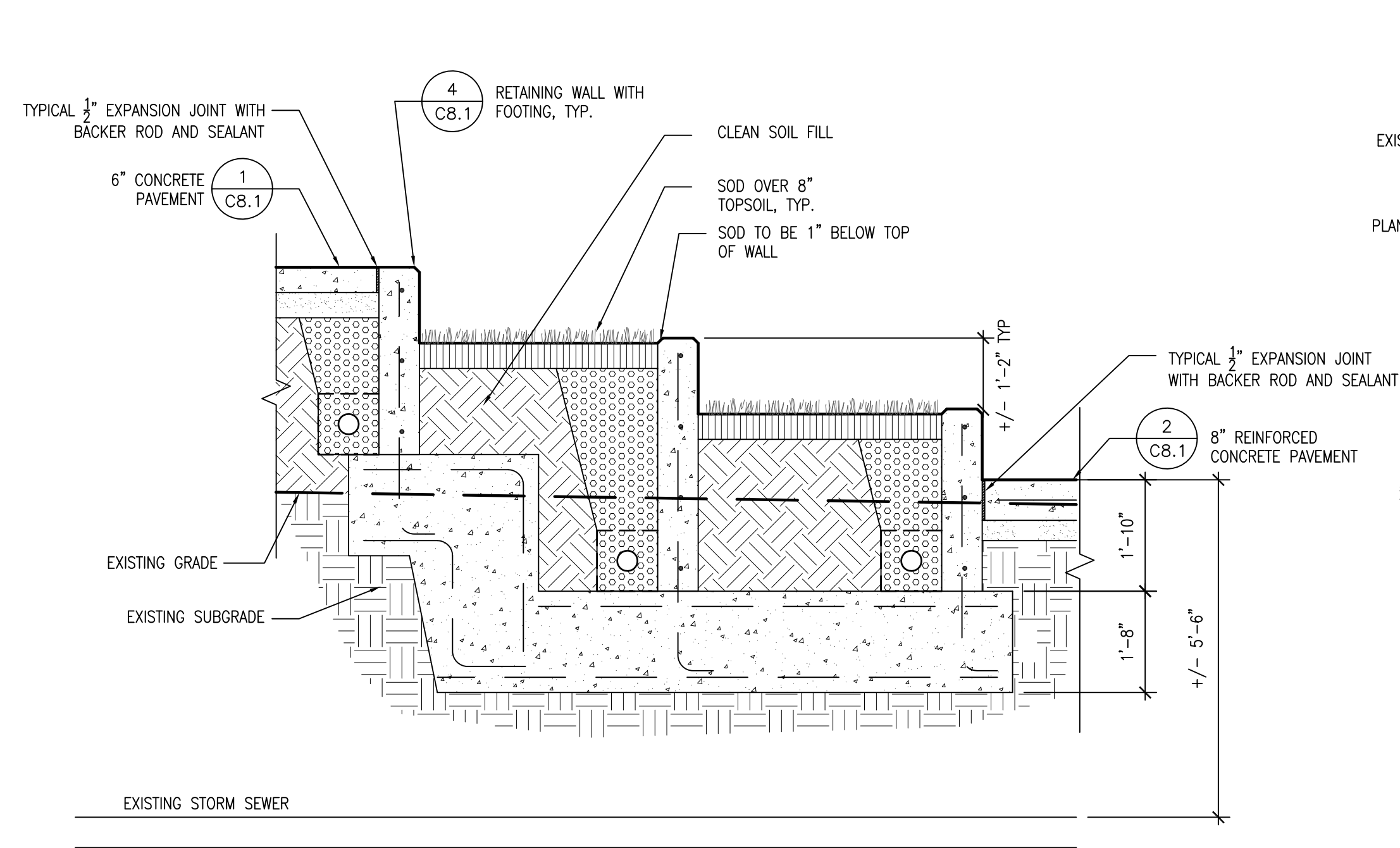
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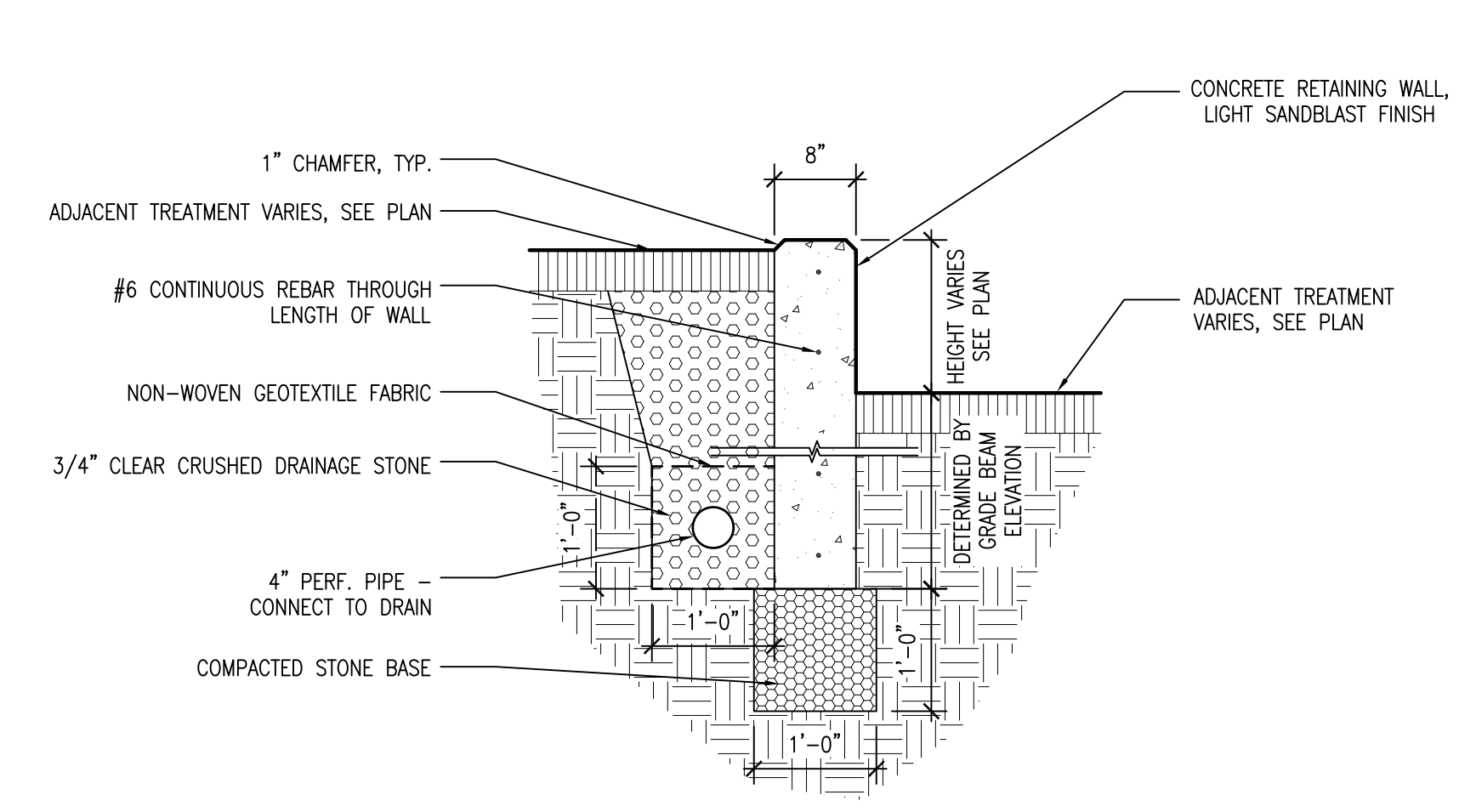
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Drawing No:

**C8.1**

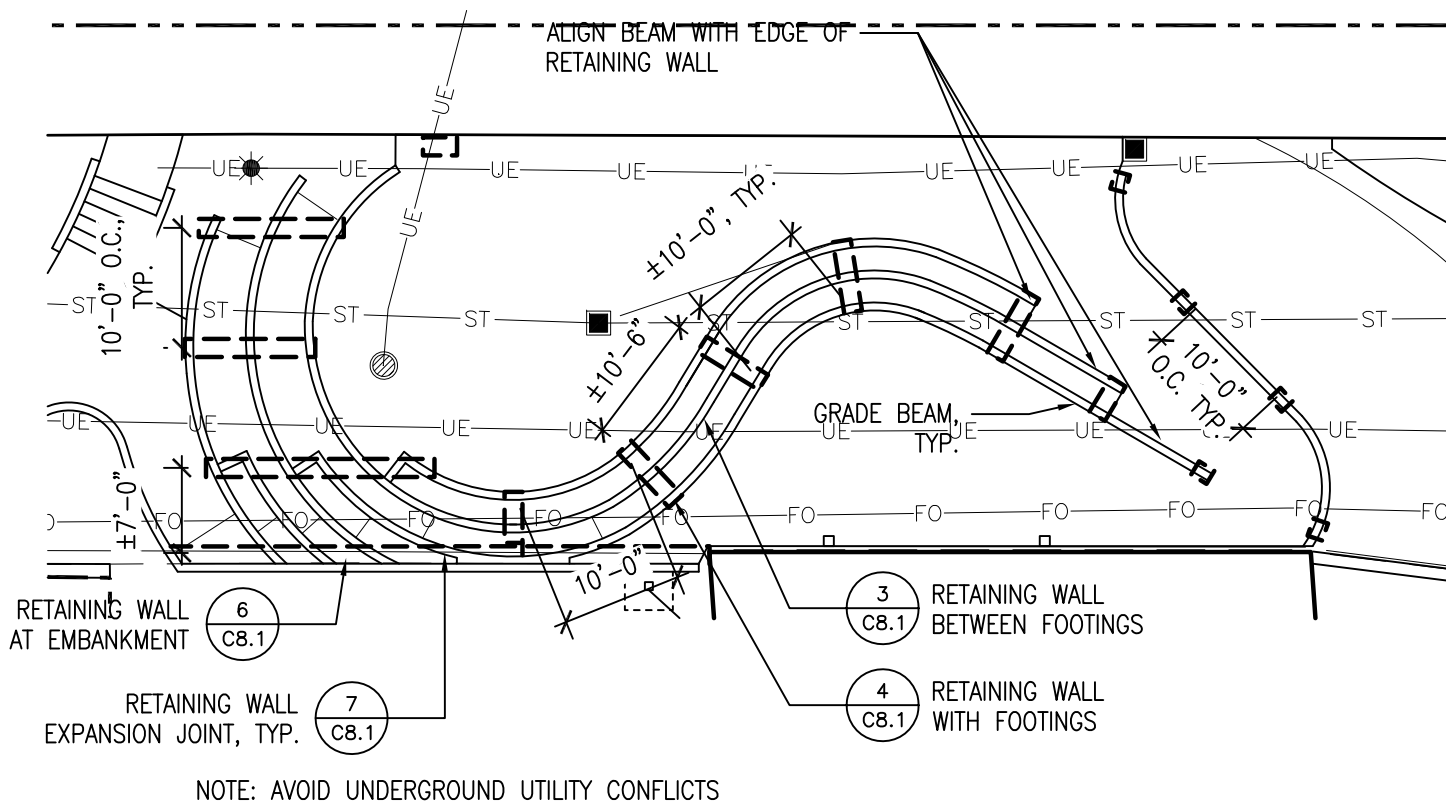
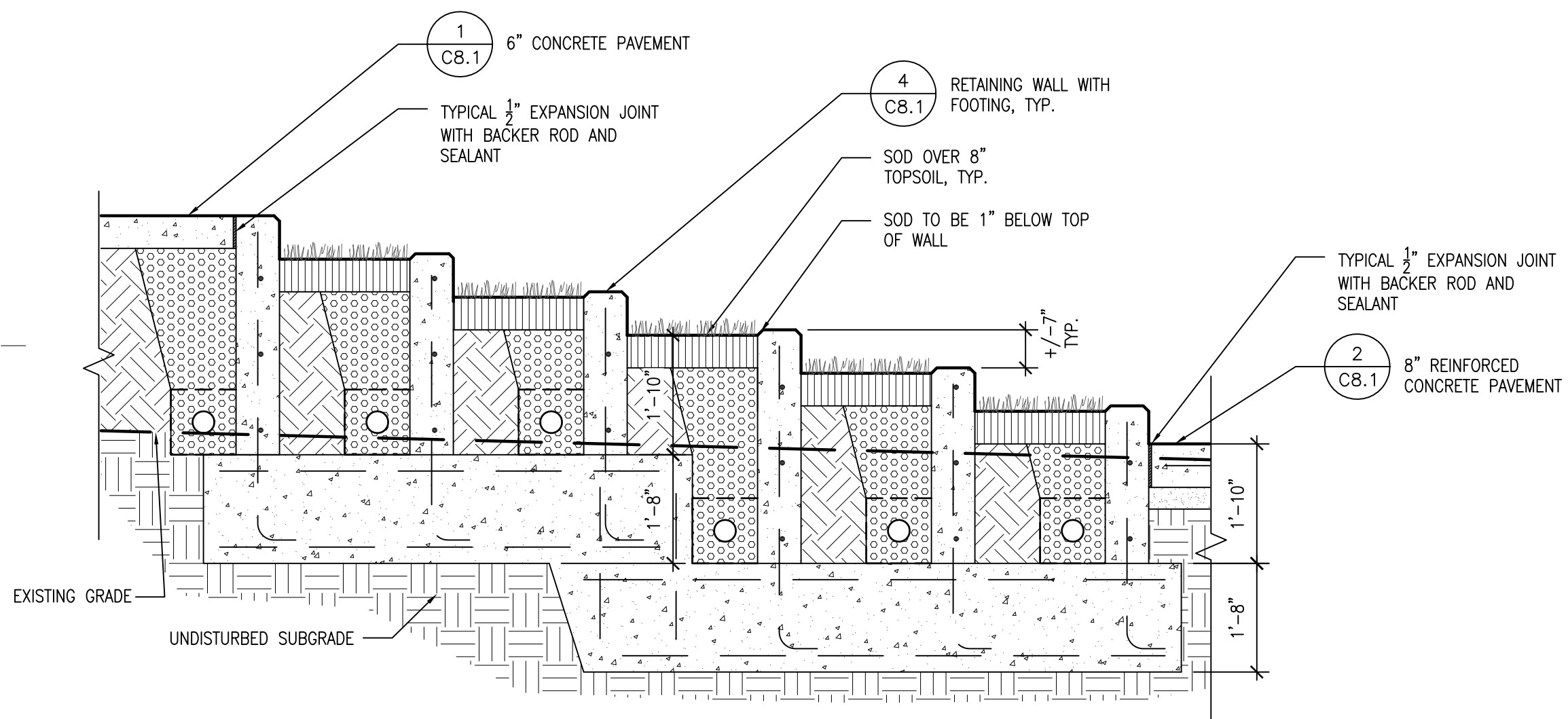


**6 EMBANKMENT RETAINING WALL**  
SCALE: 3/4"=1'-0"

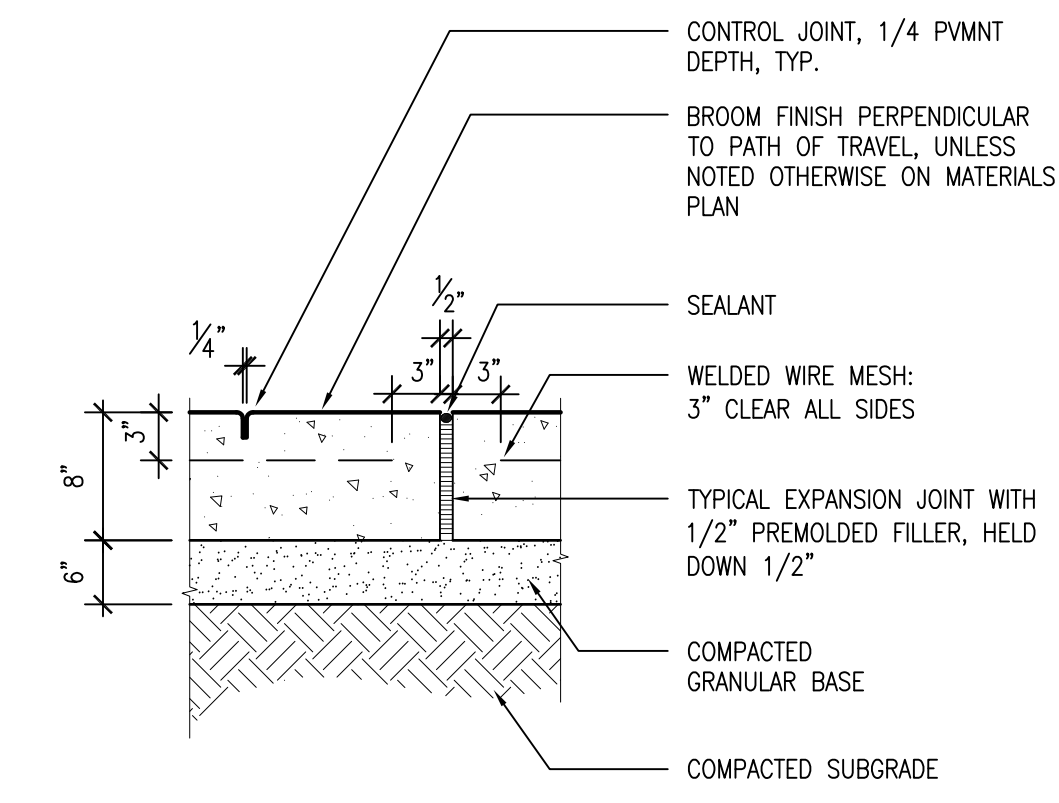


**3 RETAINING WALL BETWEEN FOOTINGS**  
SCALE: 3/4"=1'-0"

**9 14\"/>**

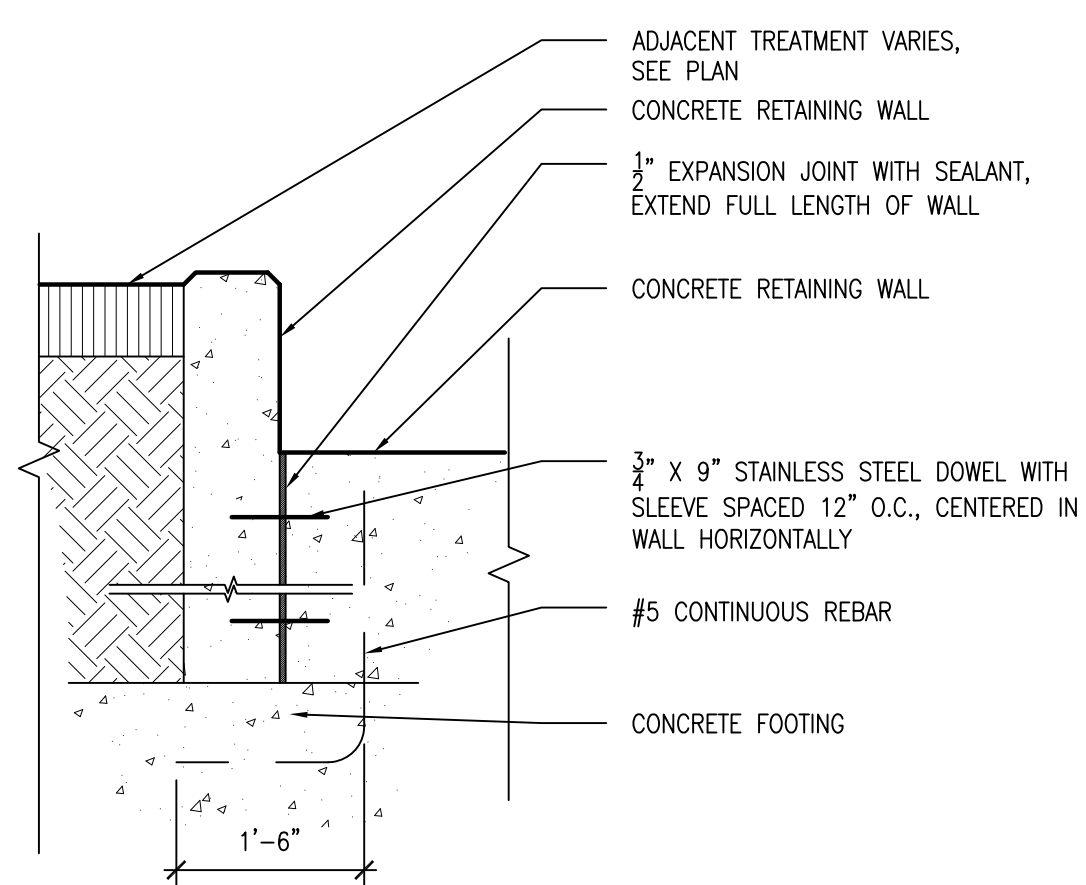


**5 FOOTING LAYOUT**  
SCALE: 1/16"=1'-0"

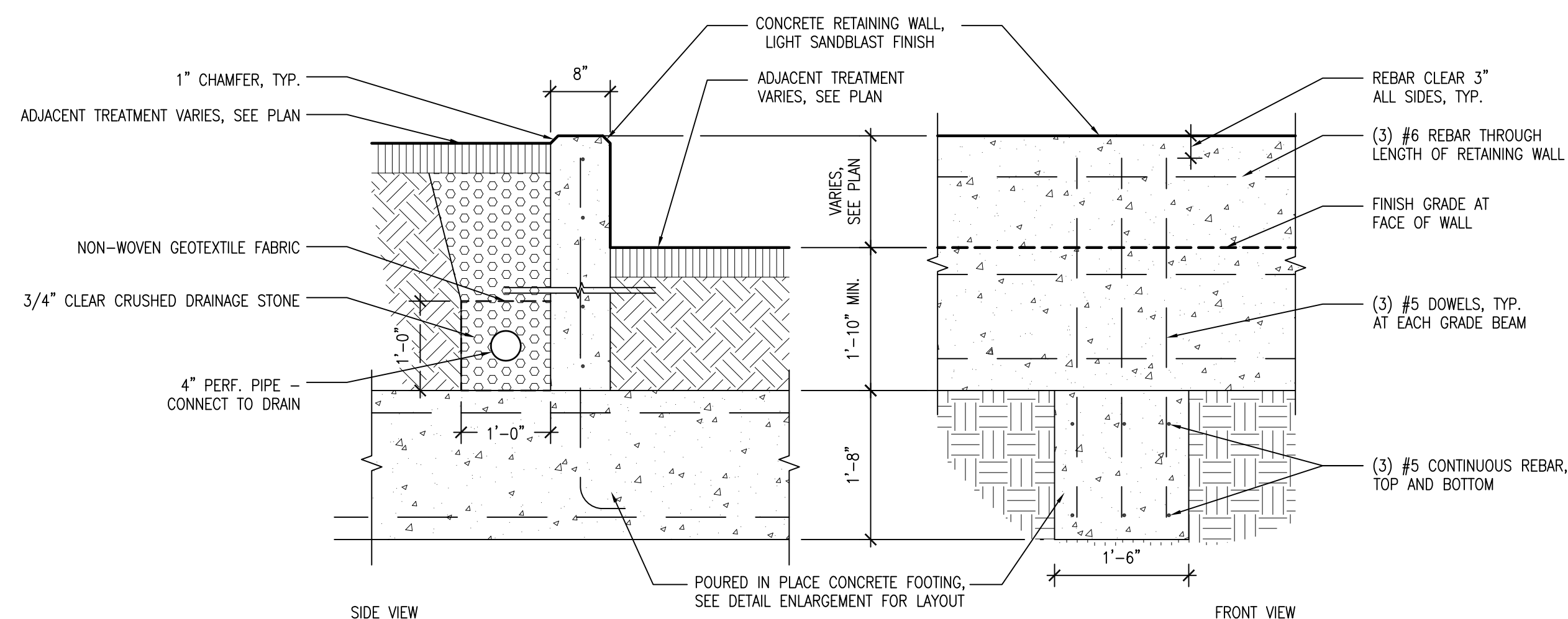


**2 8\"/>**

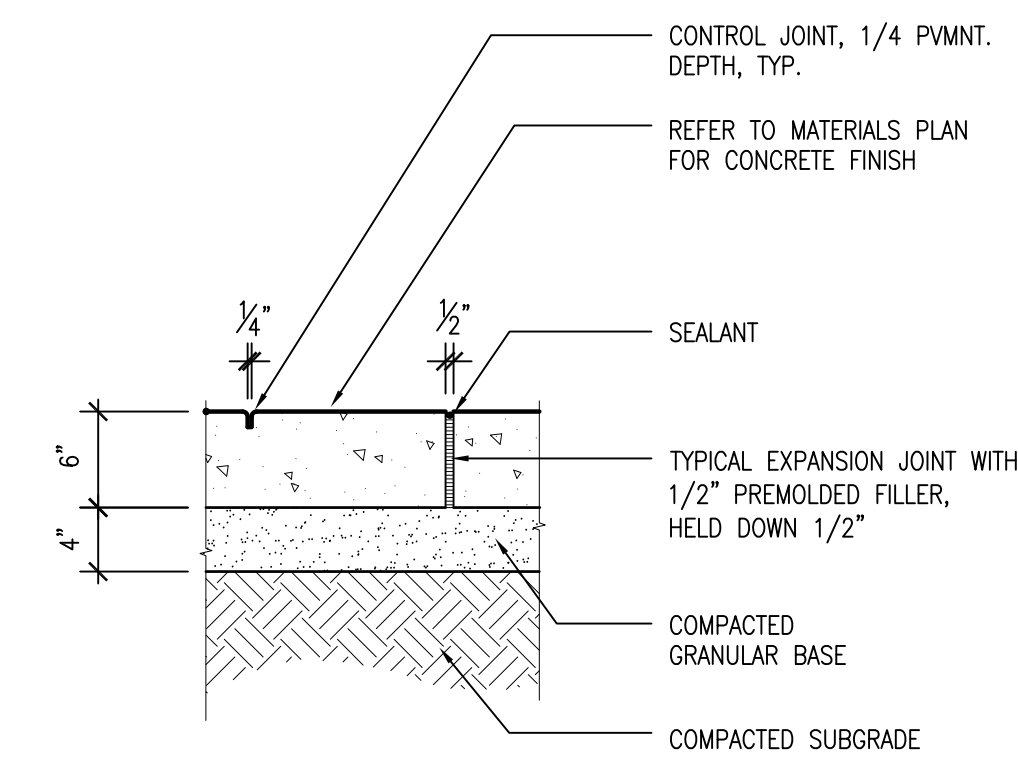
**8 7\"/>**



**7 RETAINING WALL EXPANSION JOINT**  
SCALE: 3/4"=1'-0"



**4 RETAINING WALL WITH FOOTING**  
SCALE: 3/4"=1'-0"



**1 6\"/>**



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BIDS 20 JAN 2016

Project

**CAMPBELL MEMORIAL TERRACE**

Drawing Title

**SITE DETAILS**

Project Number: 2015061.00

Drawn By: GCR Approved By: BJ

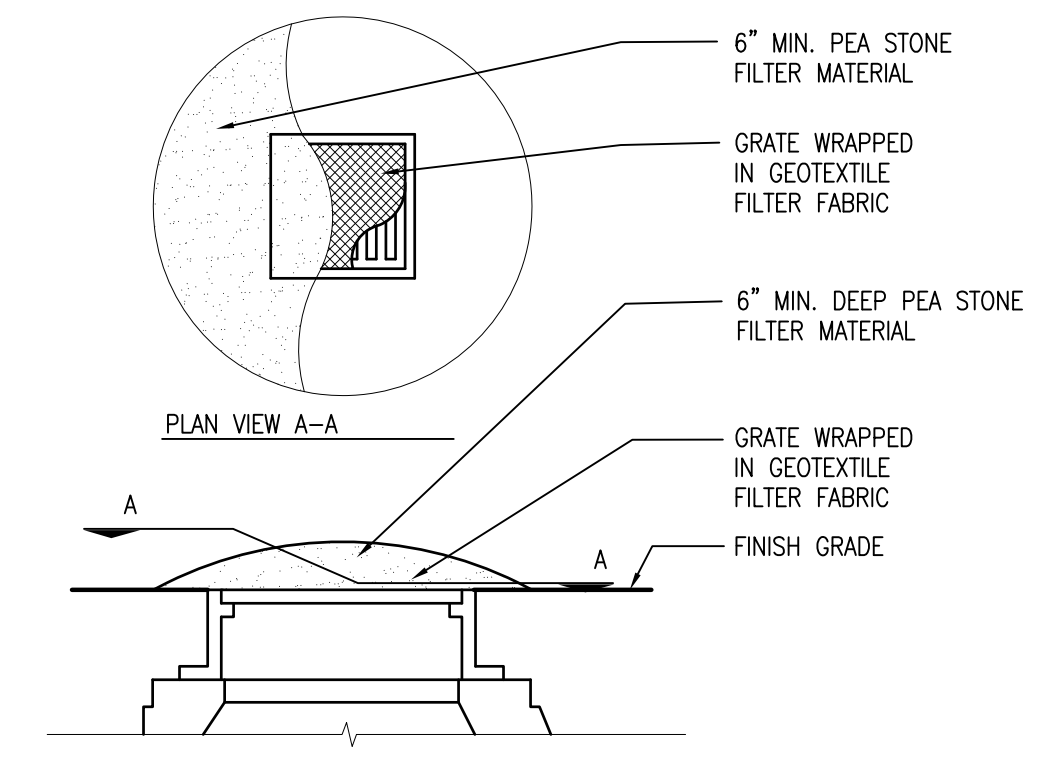
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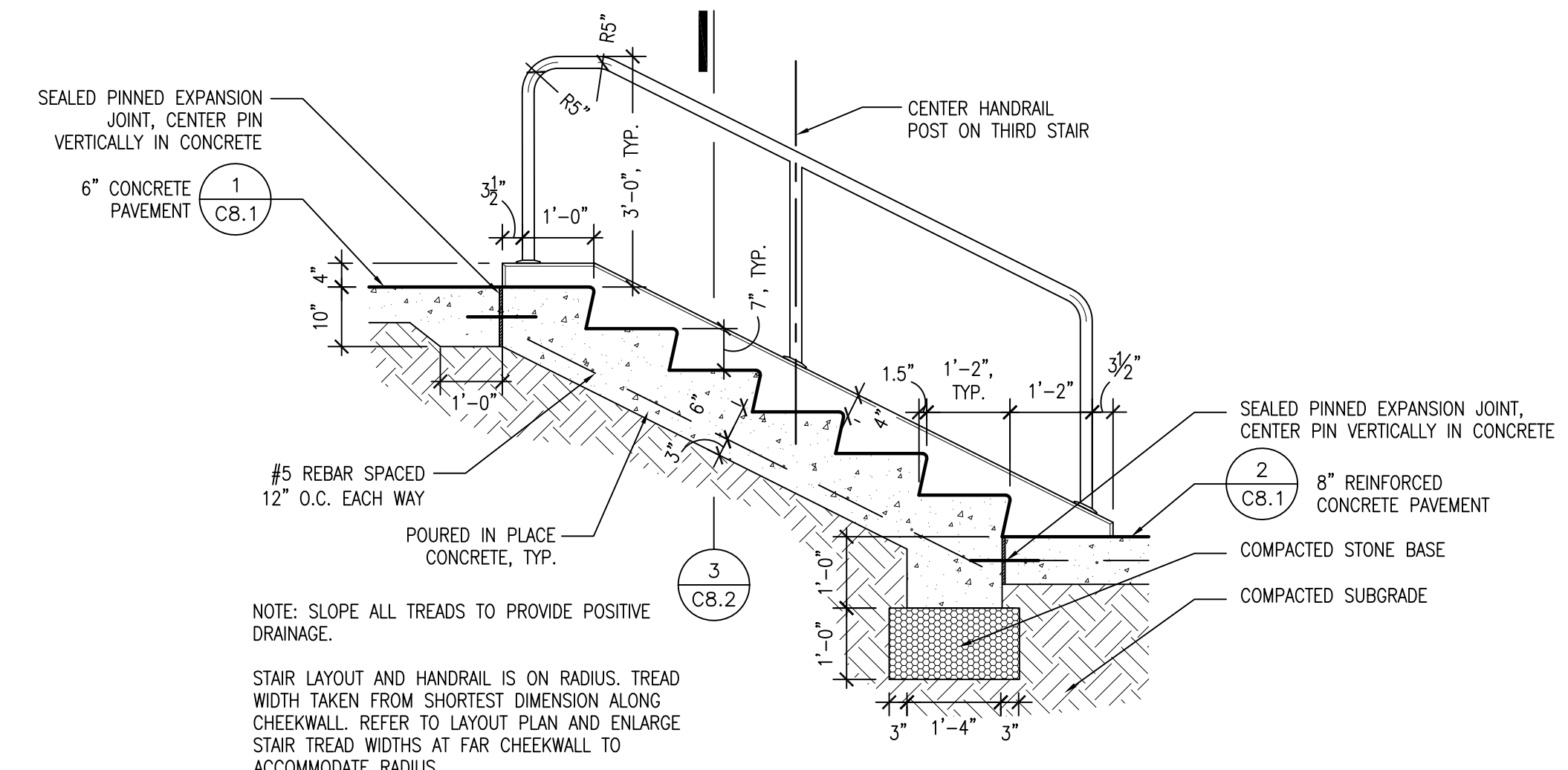
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Drawing No:

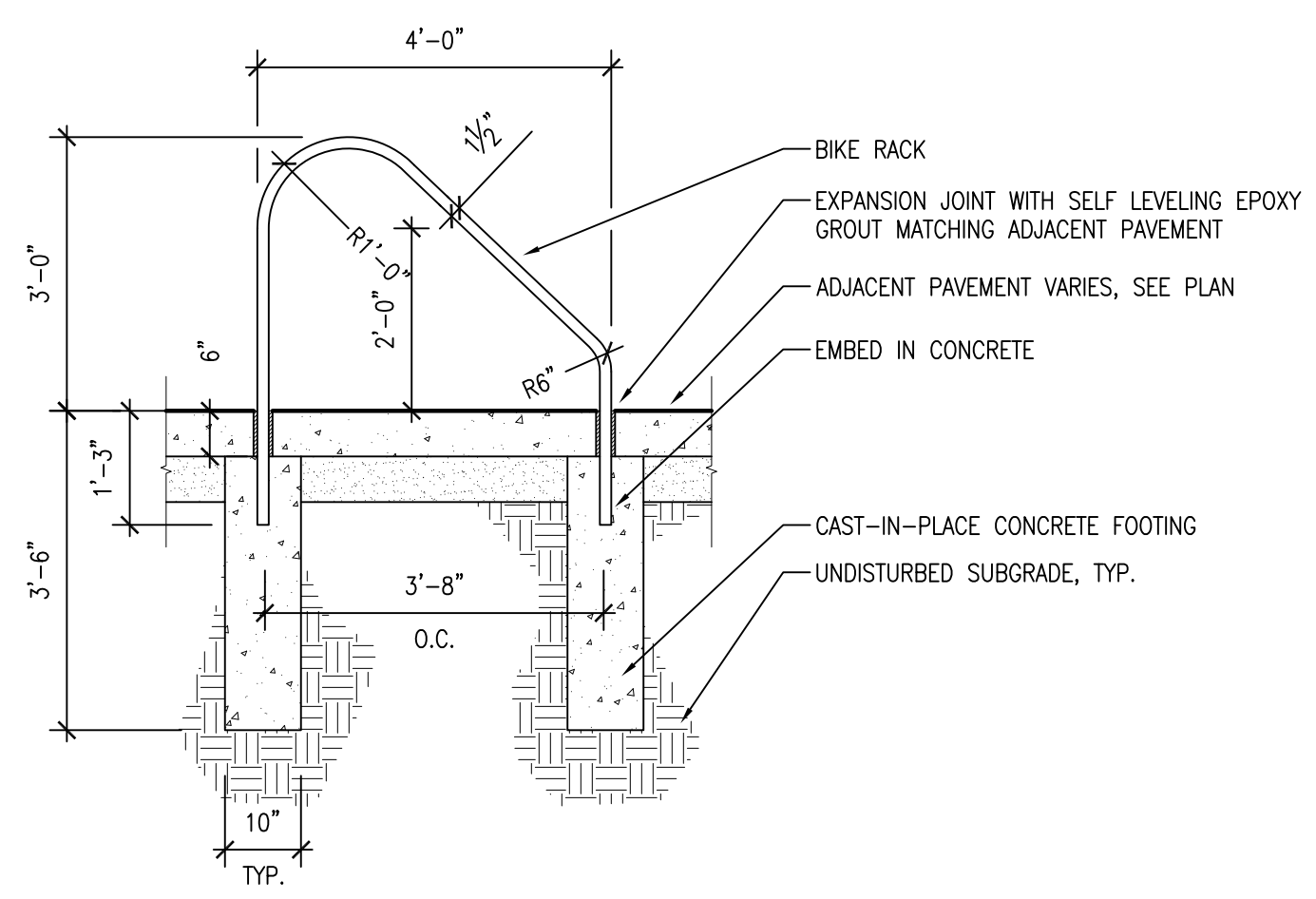
**C8.2**



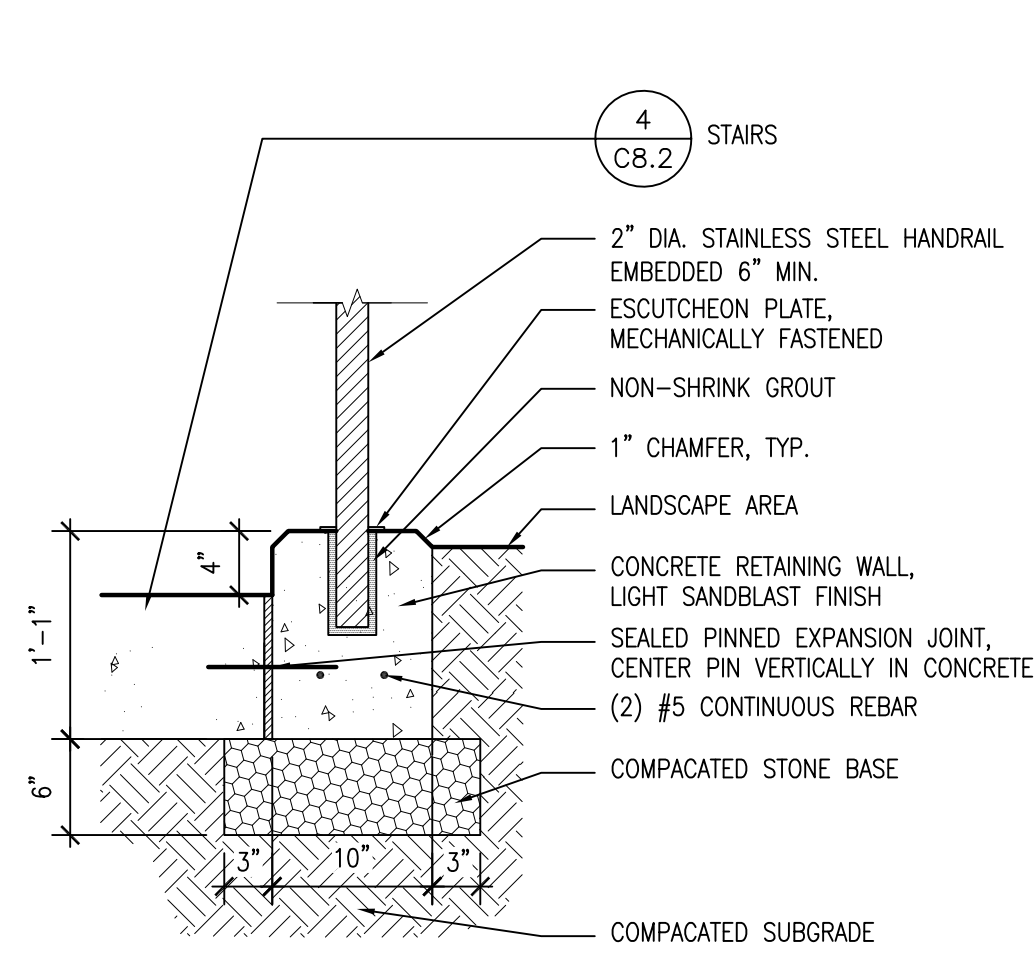
**8 STORM INLET FILTER**  
C8.2 SCALE: 1"=1'-0"



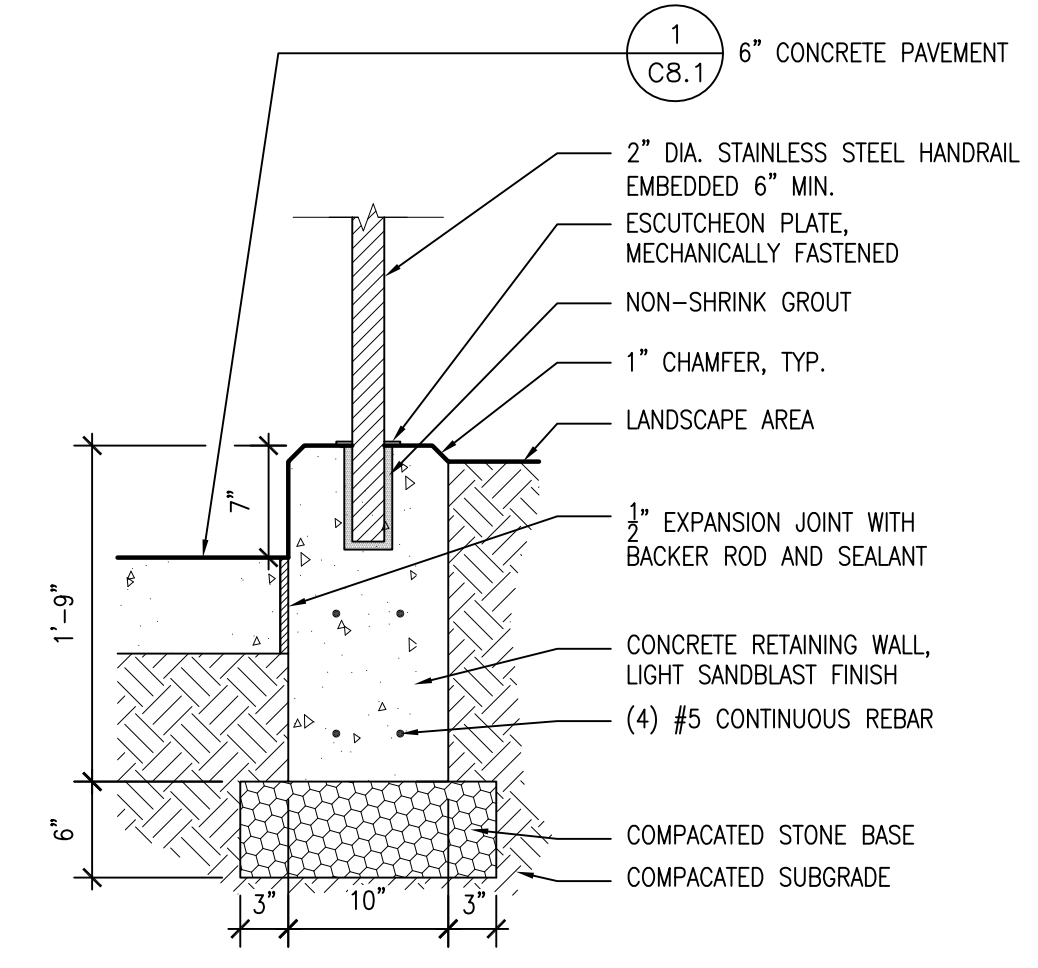
**4 STAIRS**  
C8.2 SCALE: 1/2"=1'-0"



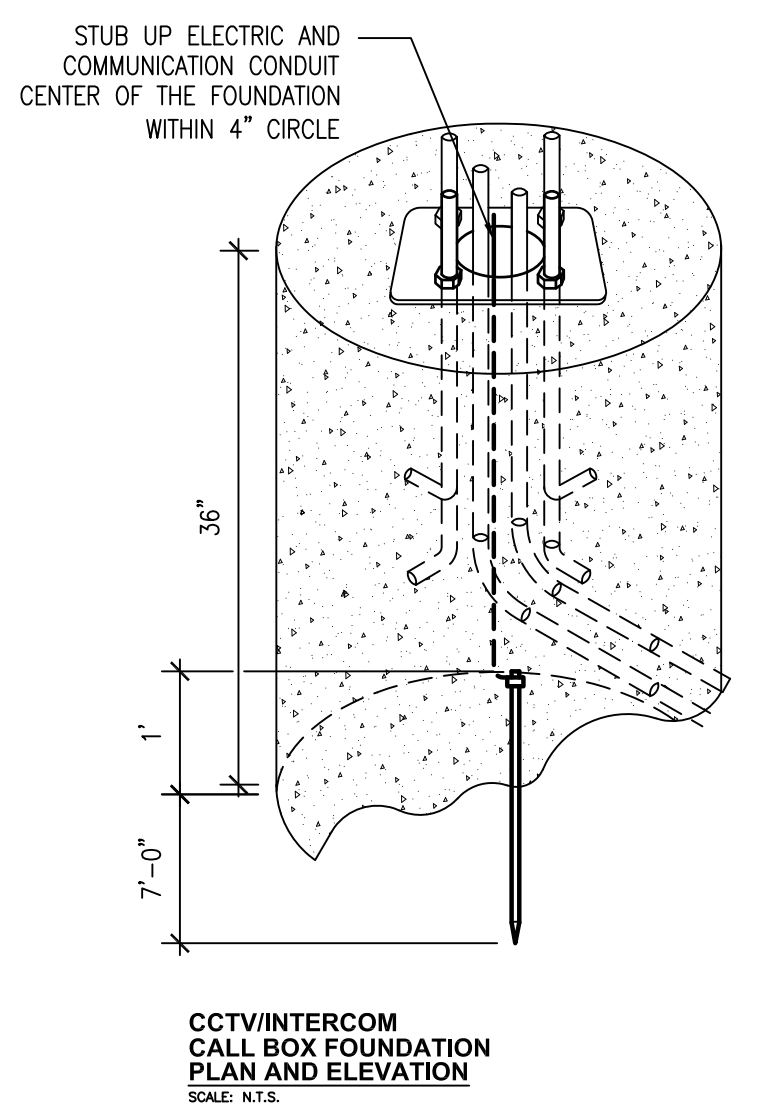
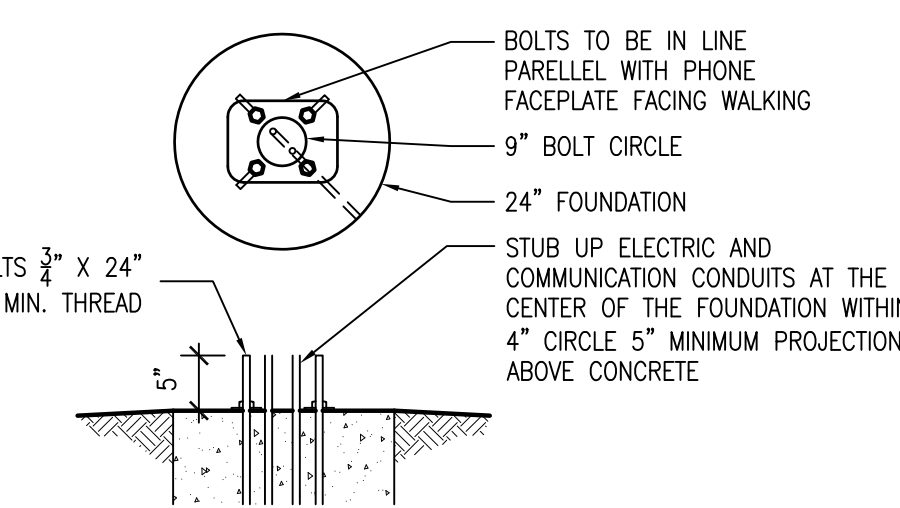
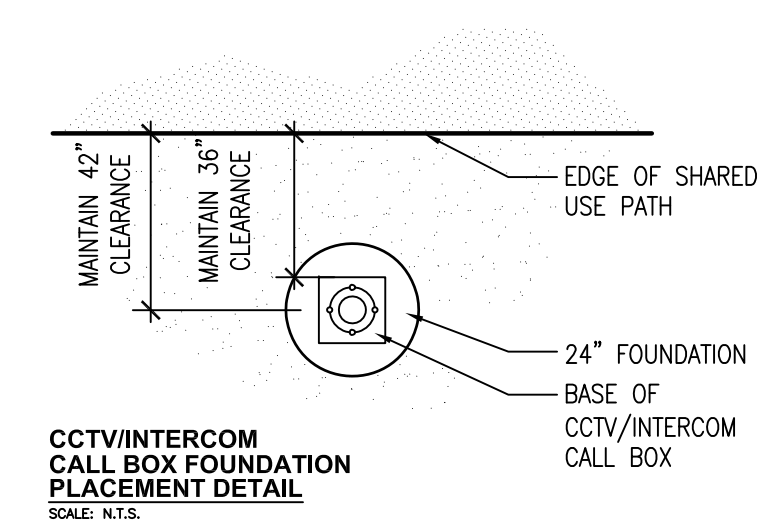
**7 BIKE RACK**  
C8.2 SCALE: 1/2"=1'-0"



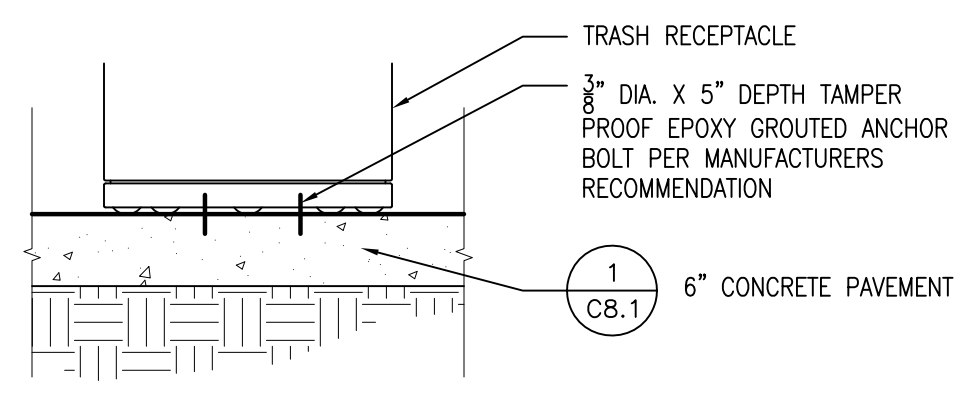
**3 HANDRAIL IN CHEEKWALL**  
C8.2 SCALE: 1"=1'-0"



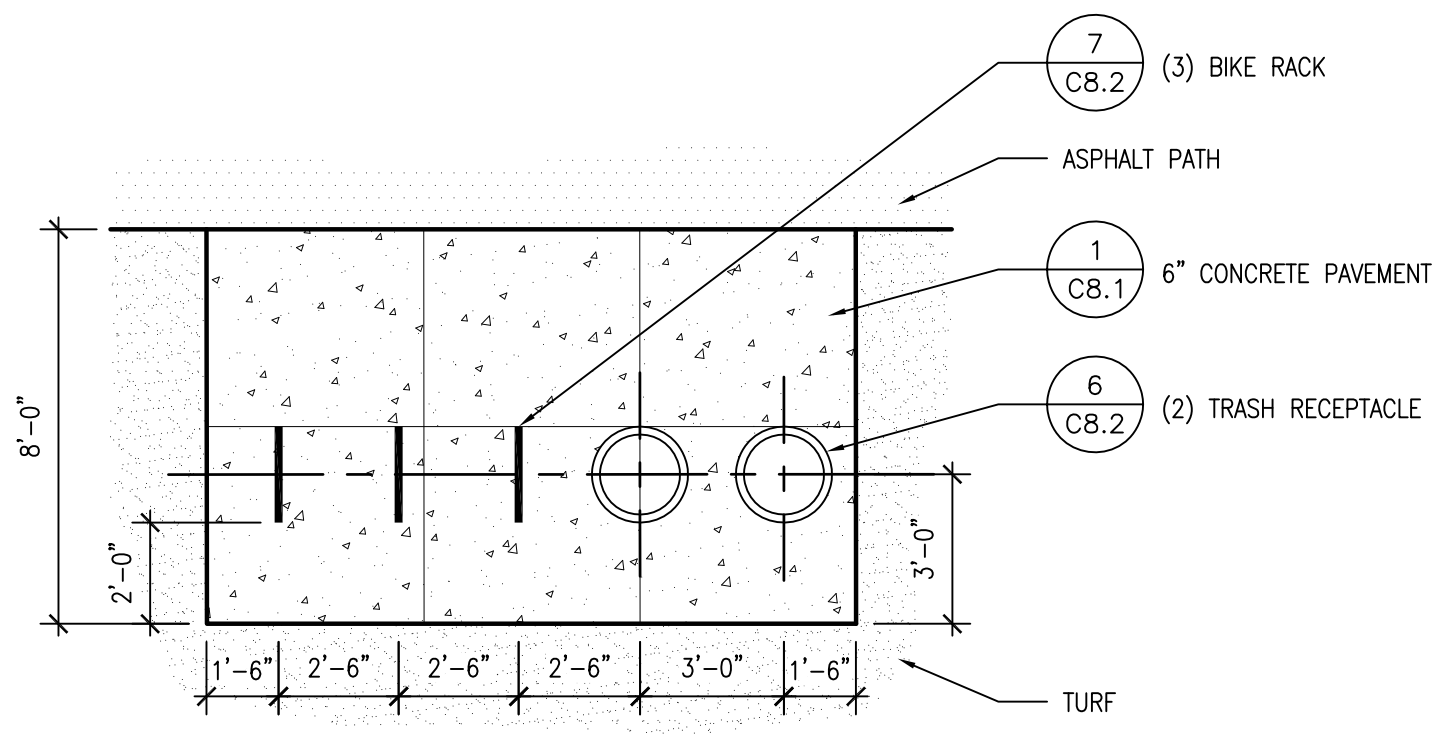
**2 HANDRAIL IN RETAINING WALL**  
C8.2 SCALE: 1"=1'-0"



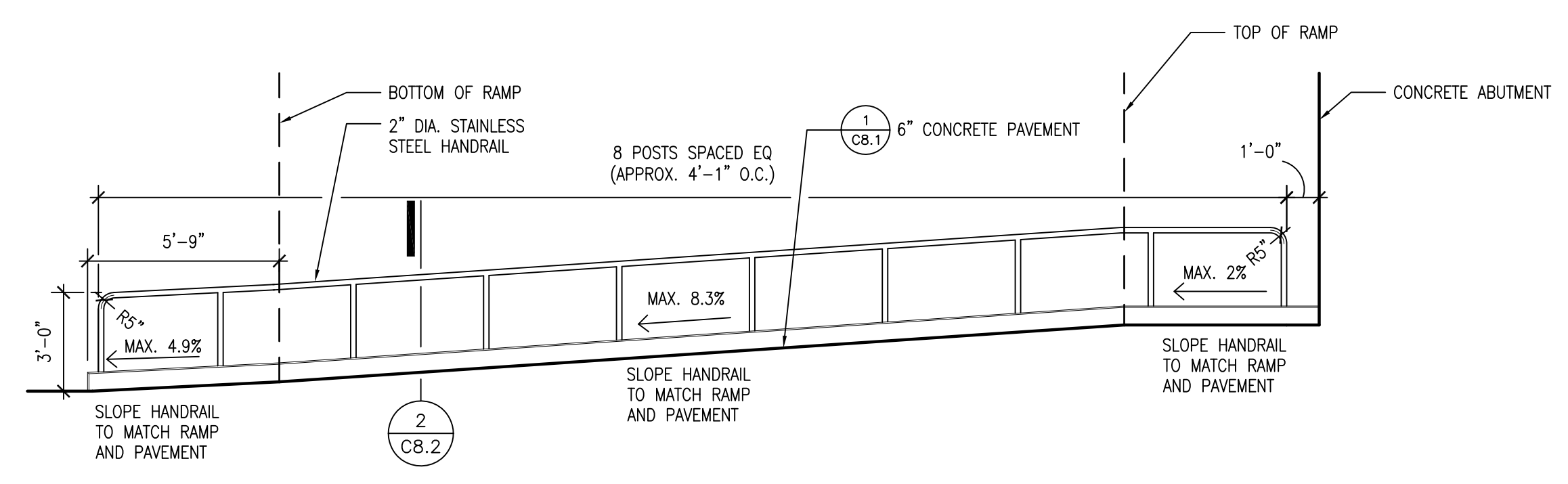
**9 CALL BOX**  
C8.2 SCALE: 1/2"=1'-0"



**6 TRASH RECEPTACLE**  
C8.2 SCALE: 3/4"=1'-0"



**5 BIKE PAD/TRASH RECEPTACLE PAD**  
C8.2 SCALE: 1/4"=1'-0"

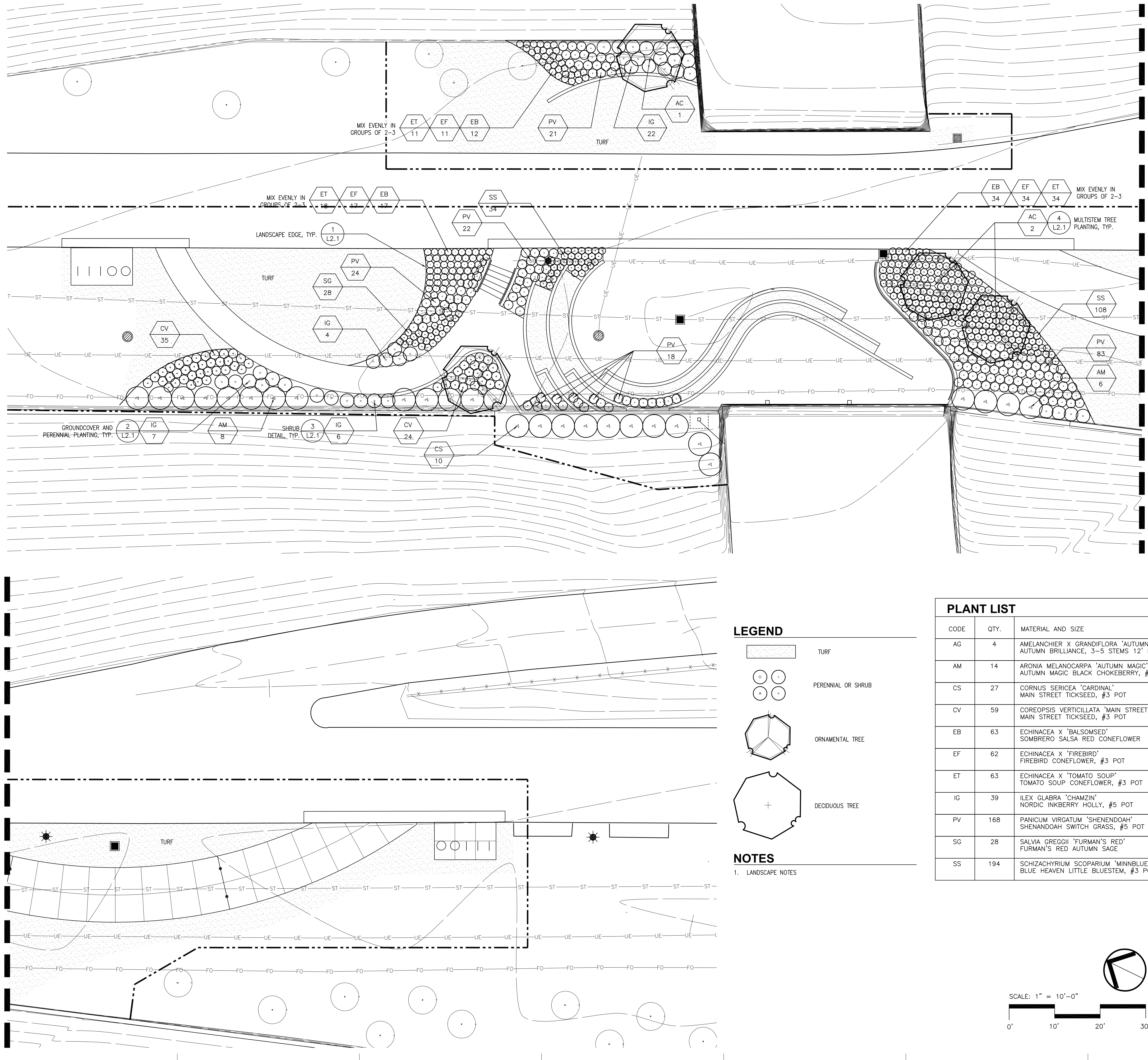


**1 UNFOLDED RAMP AND HANDRAIL ELEVATION**  
C8.2 SCALE: 1/4"=1'-0"


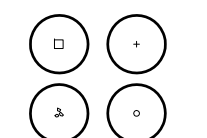
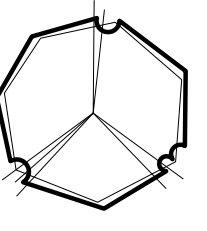
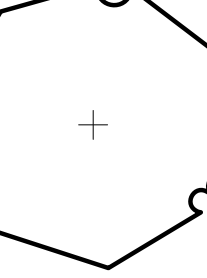


MATCHLINE - SEE BELOW

MATCHLINE - SEE ABOVE



**LEGEND**

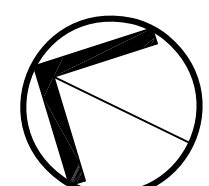
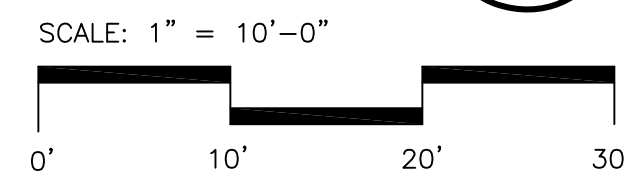
-  TURF
-  PERENNIAL OR SHRUB
-  ORNAMENTAL TREE
-  DECIDUOUS TREE

**NOTES**

1. LANDSCAPE NOTES

CODE	QTY.	MATERIAL AND SIZE	COMMENTS
AG	4	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE, 3-5 STEMS 12' HT. B&B	PER PLAN SPECIMEN
AM	14	ARONIA MELANOCARPA 'AUTUMN MAGIC' AUTUMN MAGIC BLACK CHOKEBERRY, #5 POT	5' O.C.
CS	27	CORNUS SERICEA 'CARDINAL' MAIN STREET TICKSEED, #3 POT	4' O.C.
CV	59	COREOPSIS VERTICILLATA 'MAIN STREET' MAIN STREET TICKSEED, #3 POT	1.5' O.C.
EB	63	ECHINACEA X 'BALSOMSED' SOMBRERO SALSA RED CONEFLOWER	1.5' O.C.
EF	62	ECHINACEA X 'FIREBIRD' FIREBIRD CONEFLOWER, #3 POT	1.5' O.C.
ET	63	ECHINACEA X 'TOMATO SOUP' TOMATO SOUP CONEFLOWER, #3 POT	1.5' O.C.
IG	39	ILEX GLABRA 'CHAMZIN' NORDIC INKBERRY HOLLY, #5 POT	3' O.C.
PV	168	PANICUM VIRGATUM 'SHENENDOAH' SHENENDOAH SWITCH GRASS, #5 POT	2' O.C.
SG	28	SALVIA GREGGII 'FURMAN'S RED' FURMAN'S RED AUTUMN SAGE	2' O.C.
SS	194	SCHIZACHYRIUM SCOPARIUM 'MINNBLUEA' BLUE HEAVEN LITTLE BLUESTEM, #3 POT	1.5' O.C.

SCALE: 1" = 10'-0"

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BIDS \_\_\_\_\_ 20 JAN 2016

Project  
**CAMPBELL MEMORIAL  
 TERRACE**

Drawing Title  
**LANDSCAPE DETAILS**

Project Number: **2015061.00**

Drawn By: **GCR** Approved By: **BJ**

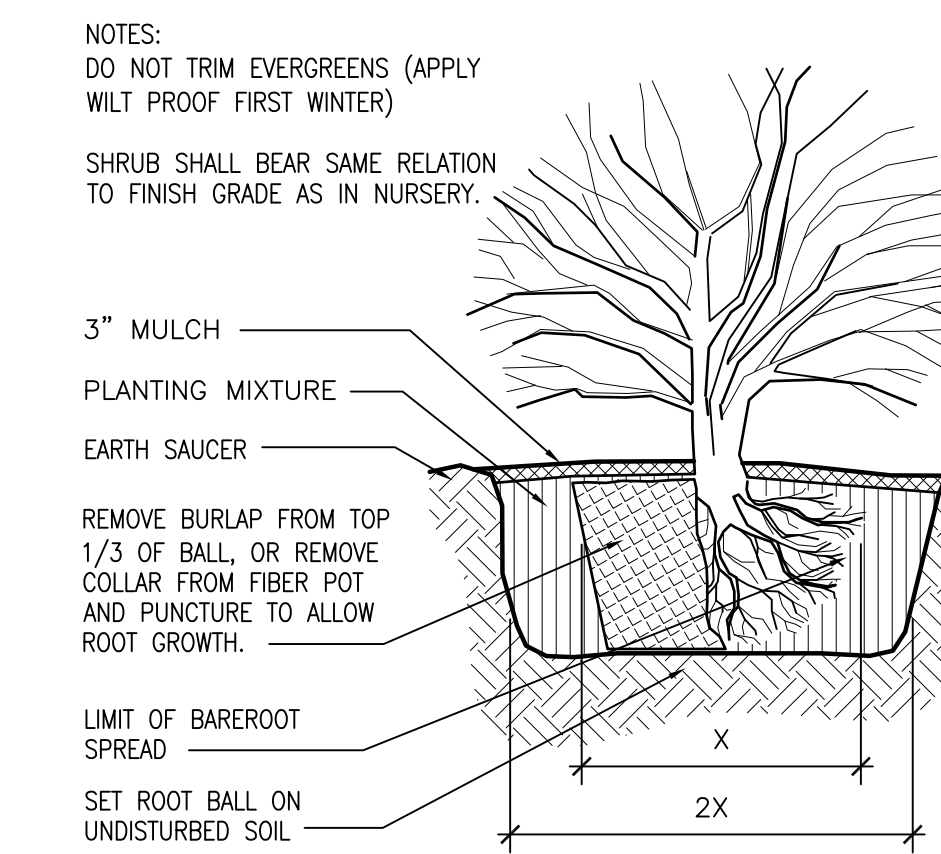
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Seat: \_\_\_\_\_

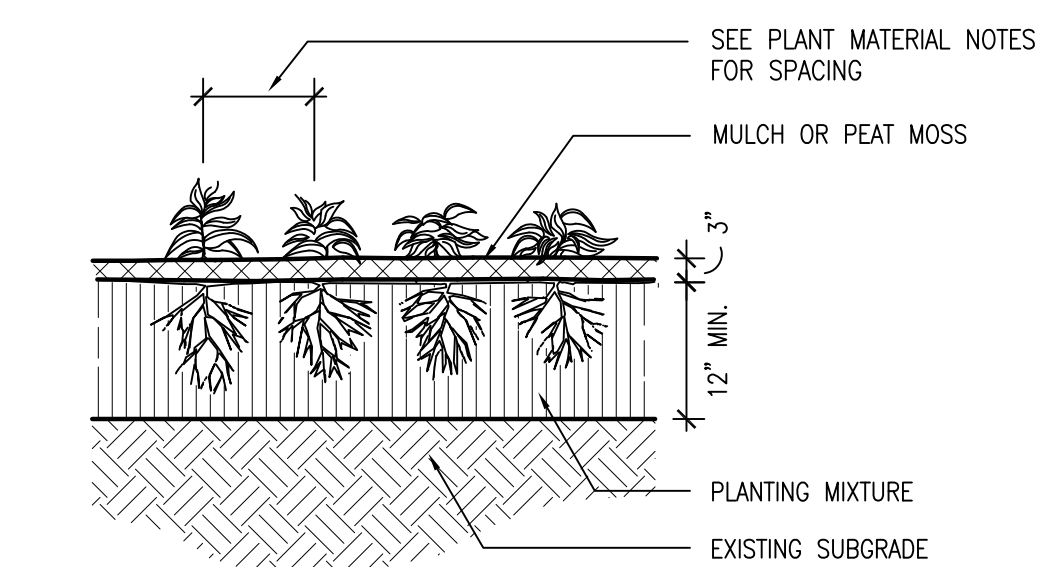
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Drawing No: \_\_\_\_\_

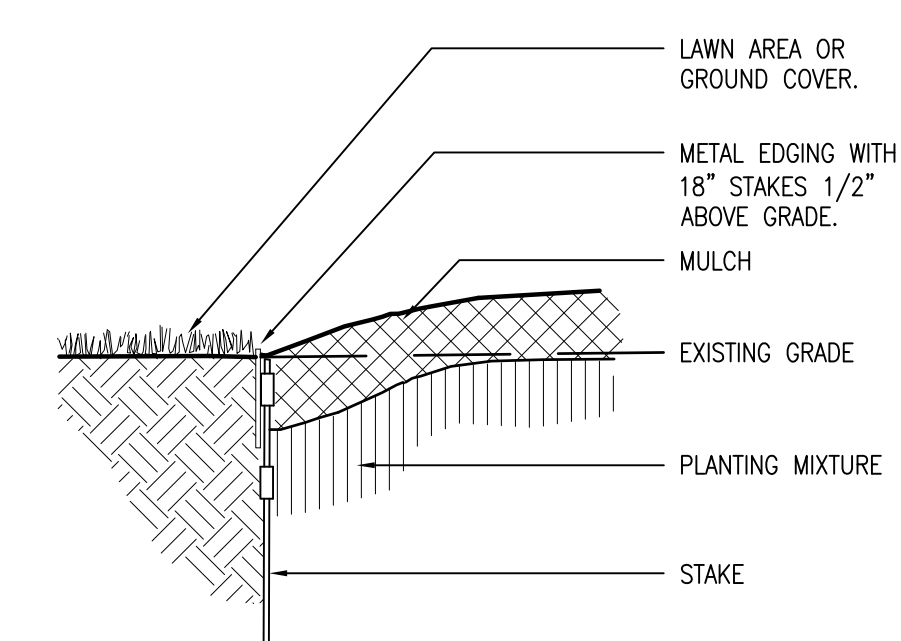
**L2.1**



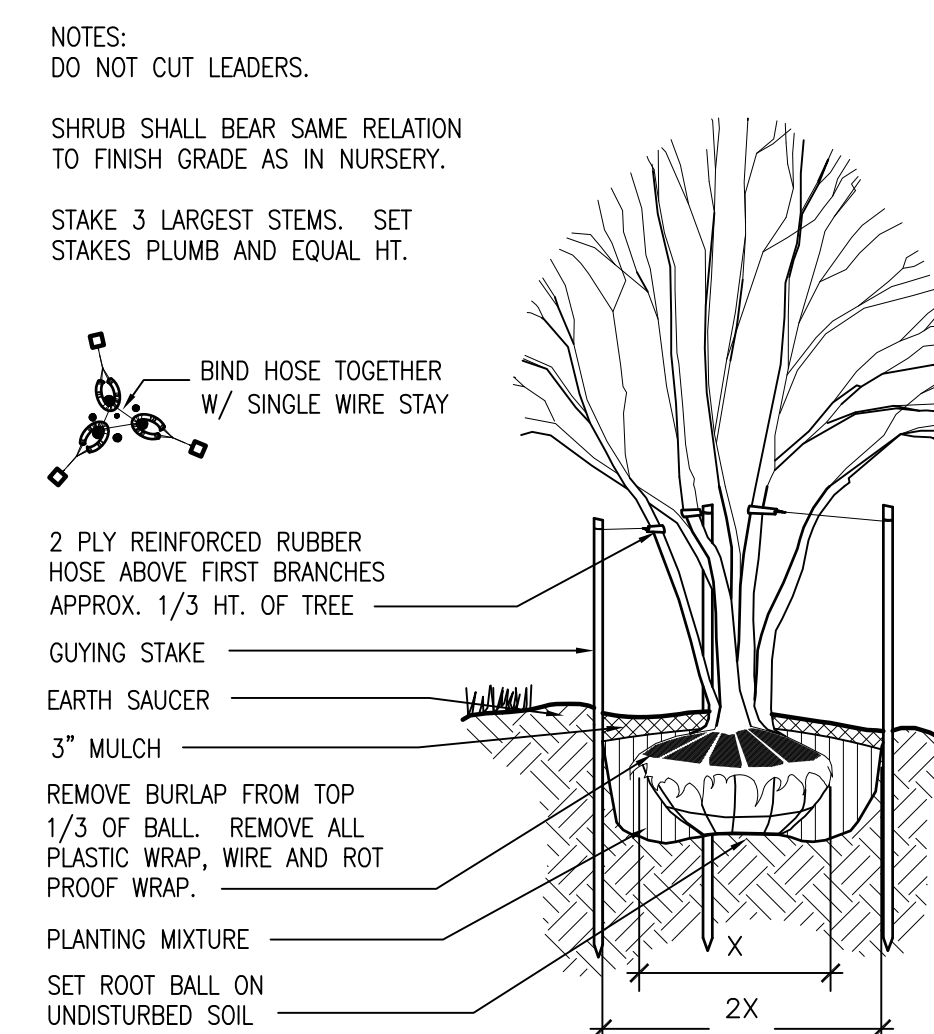
**3 SHRUB DETAIL**  
 L2.1 1/4"=1'-0"



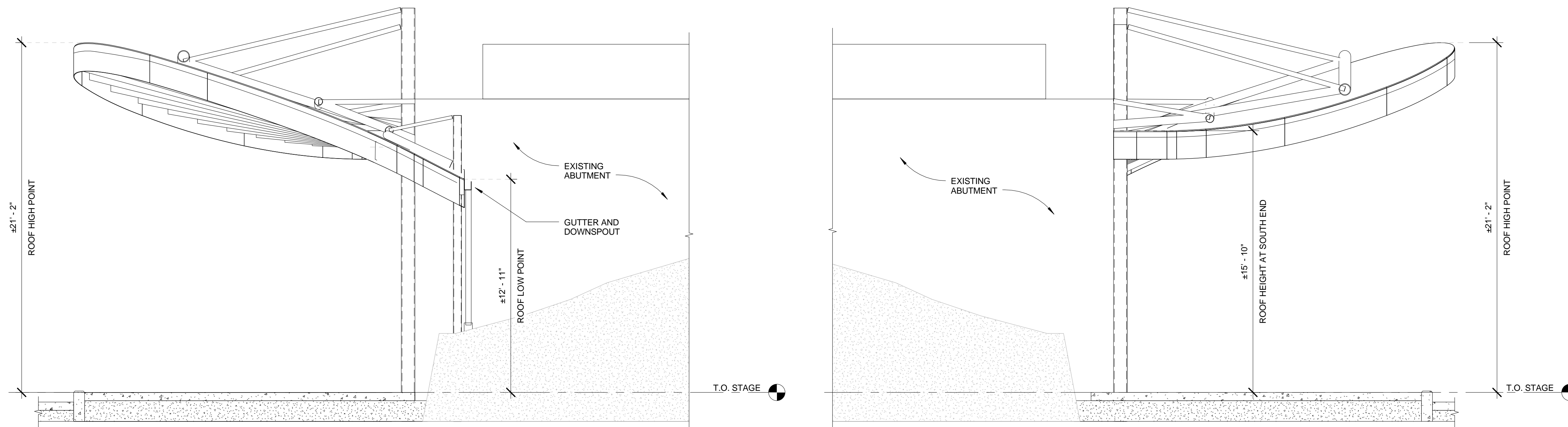
**2 GROUND COVER & PERENNIAL PLANTING**  
 L2.1 1/2"=1'-0"



**1 LANDSCAPE EDGE**  
 L2.1 1"=1'-0"

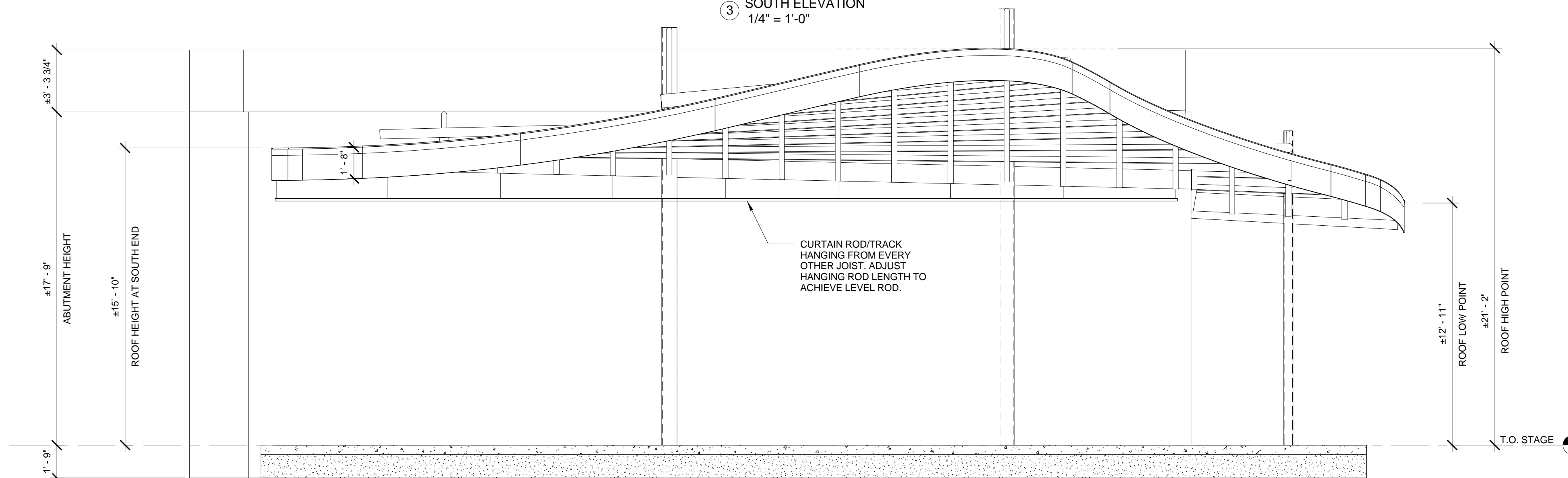


**4 MULTI STEM TREE PLANTING**  
 L2.1 1/4"=1'-0"



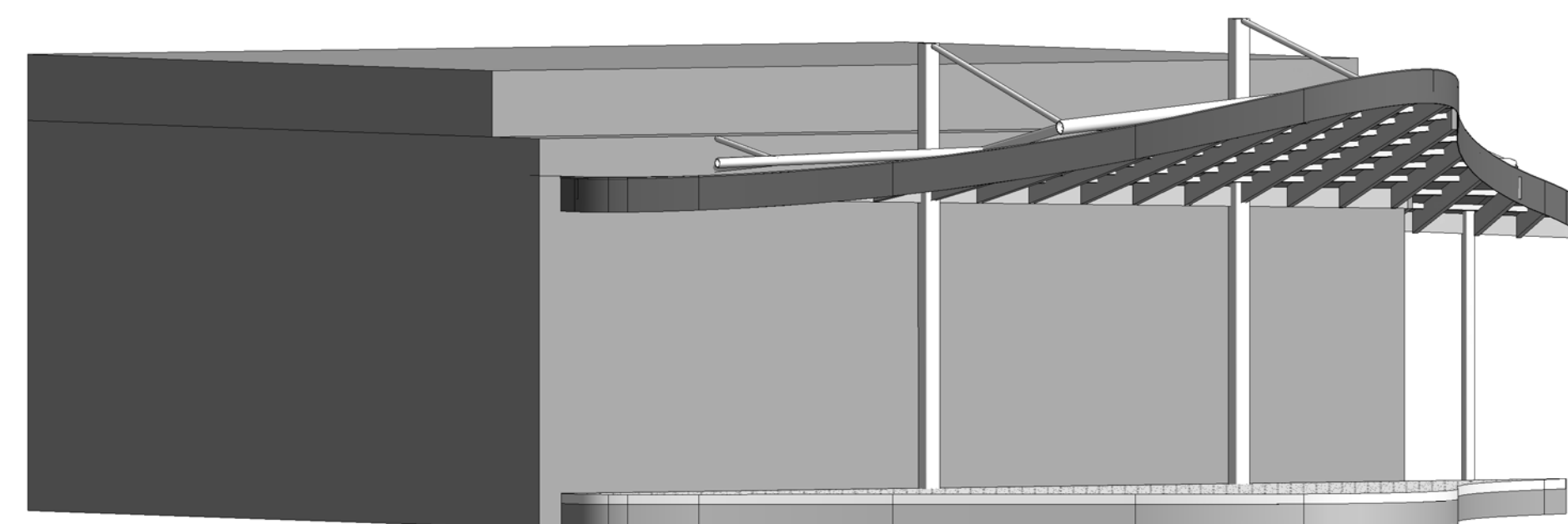
④ NORTH ELEVATION  
1/4" = 1'-0"

③ SOUTH ELEVATION  
1/4" = 1'-0"

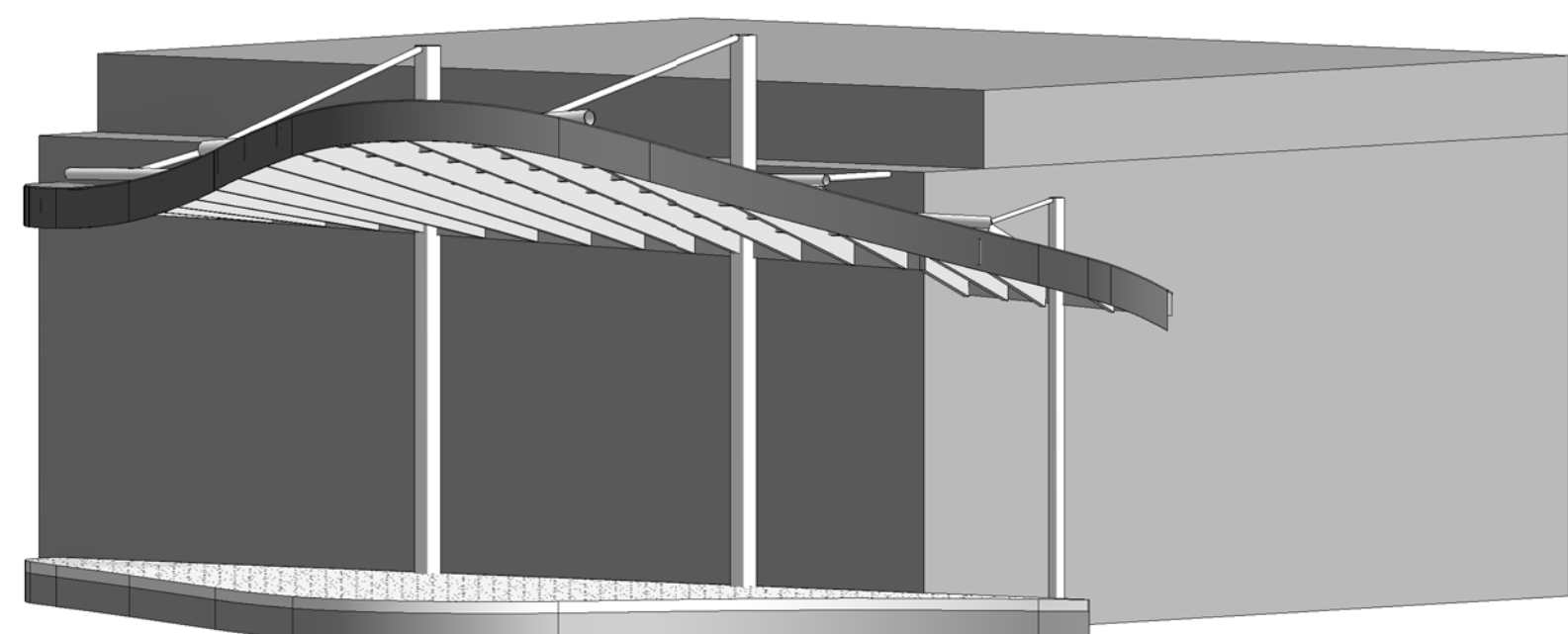


② EAST ELEVATION  
1/4" = 1'-0"

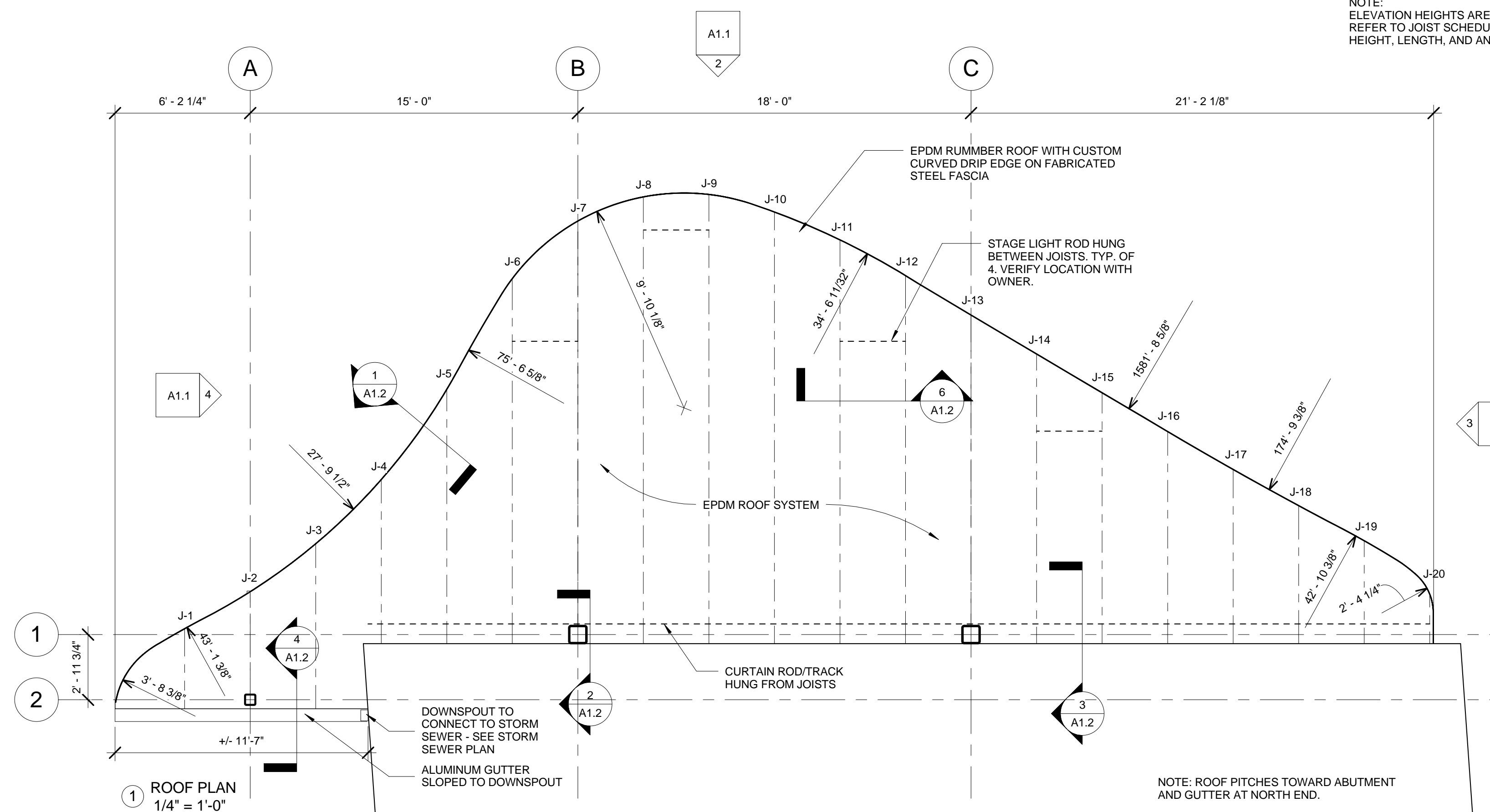
NOTE:  
ELEVATION HEIGHTS ARE APPROXIMATE.  
REFER TO JOIST SCHEDULE ON SHEET S6 FOR  
HEIGHT, LENGTH, AND ANGLE OF EACH JOIST.



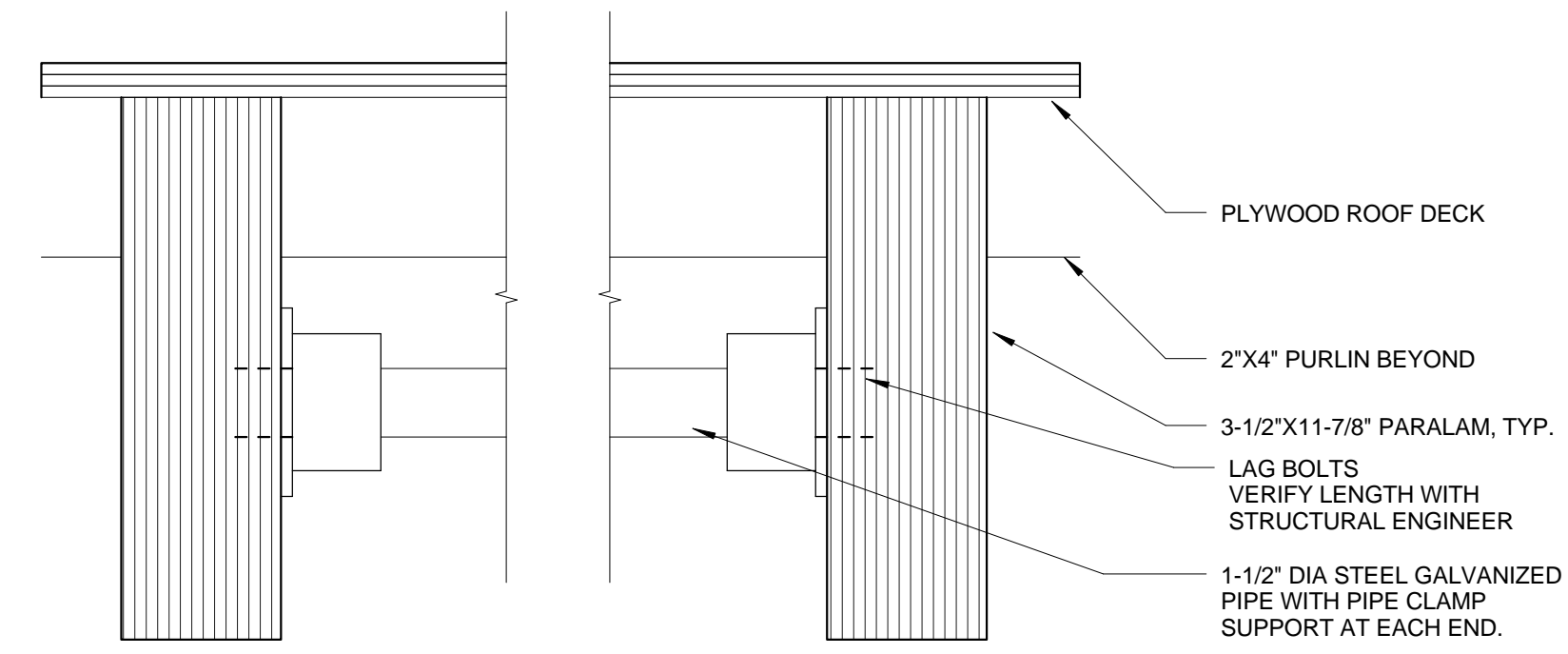
⑥ VIEW OF CANOPY FROM THE NORTHEAST



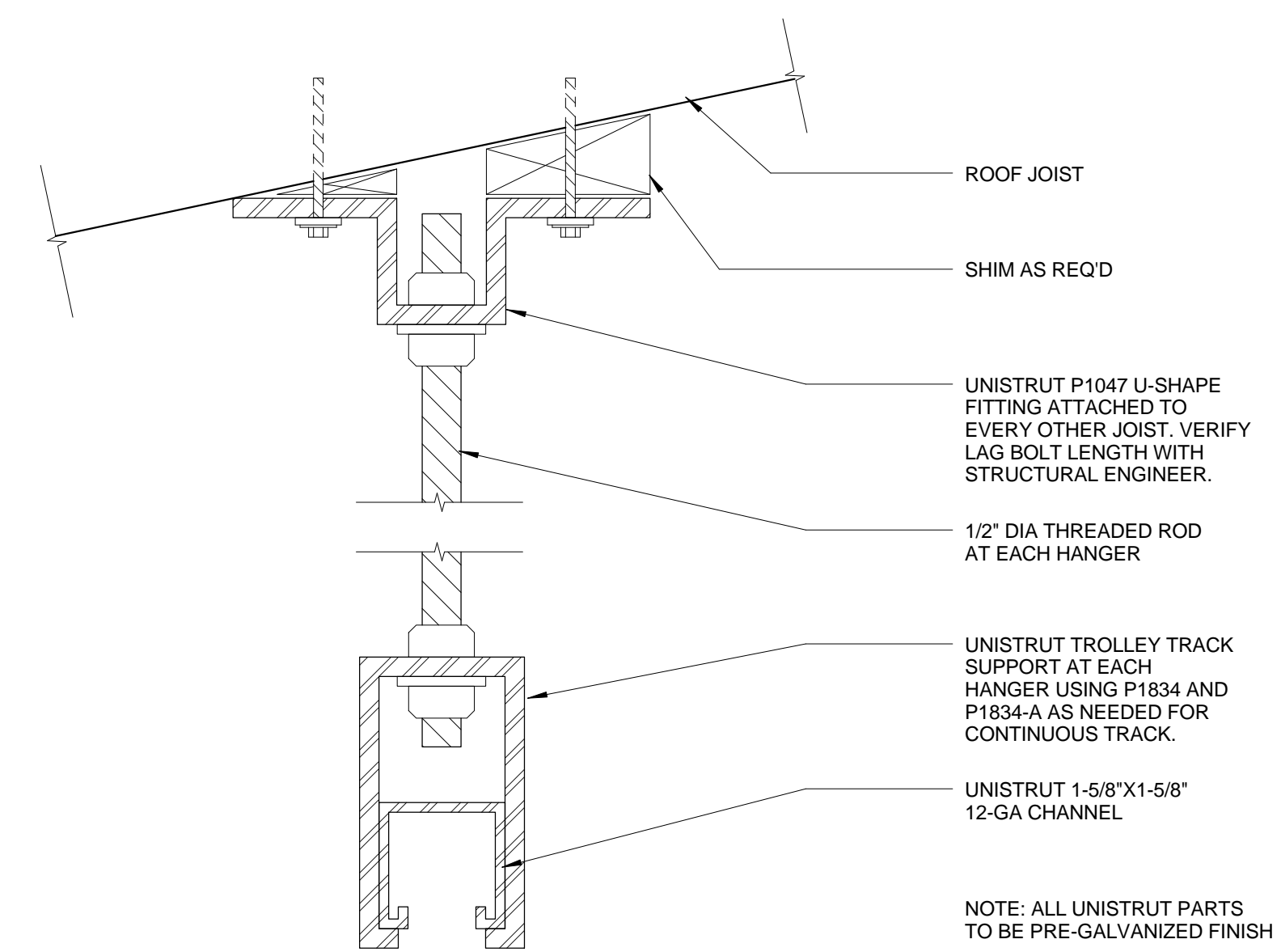
⑤ VIEW OF CANOPY FROM THE SOUTHEAST



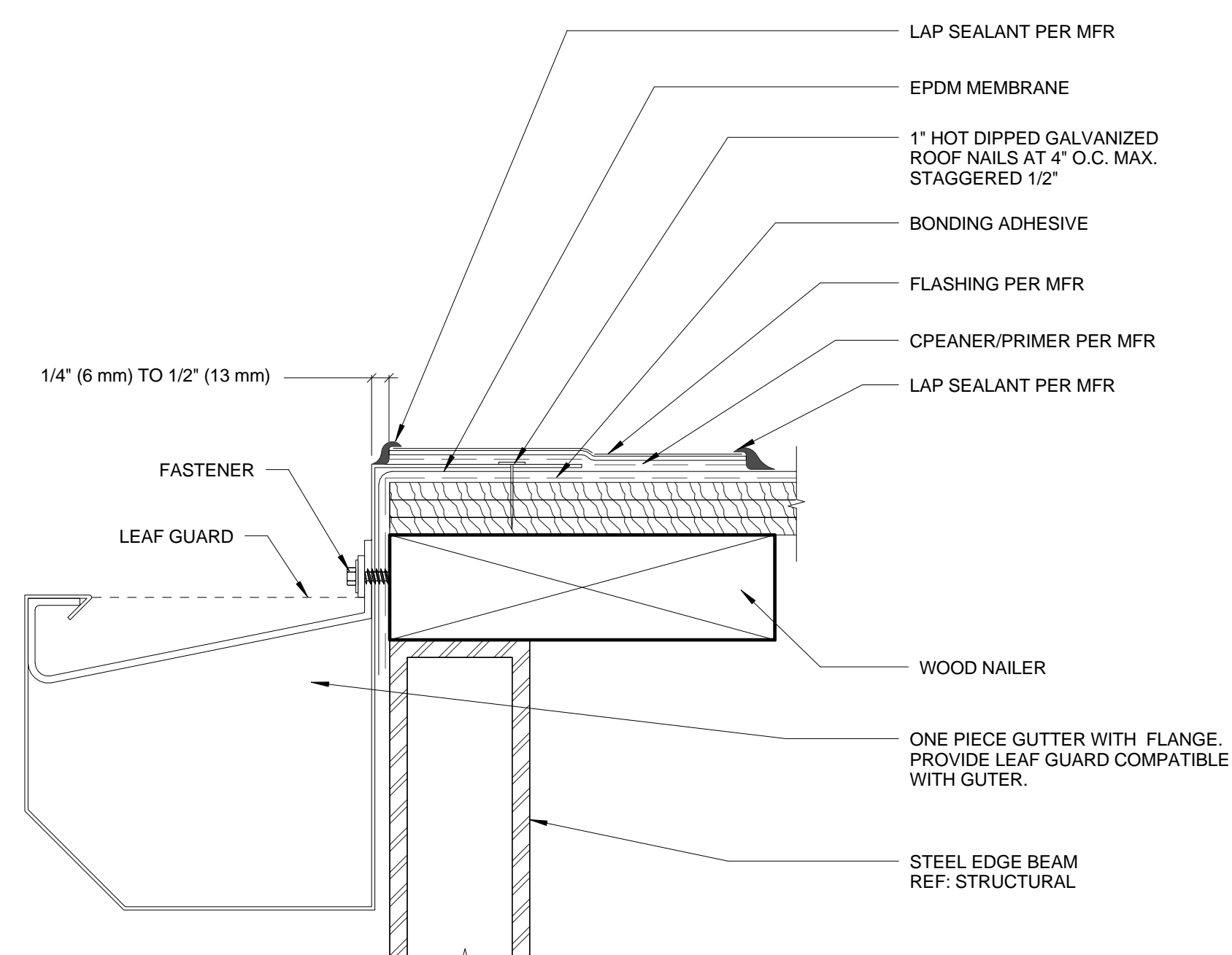
① ROOF PLAN  
1/4" = 1'-0"



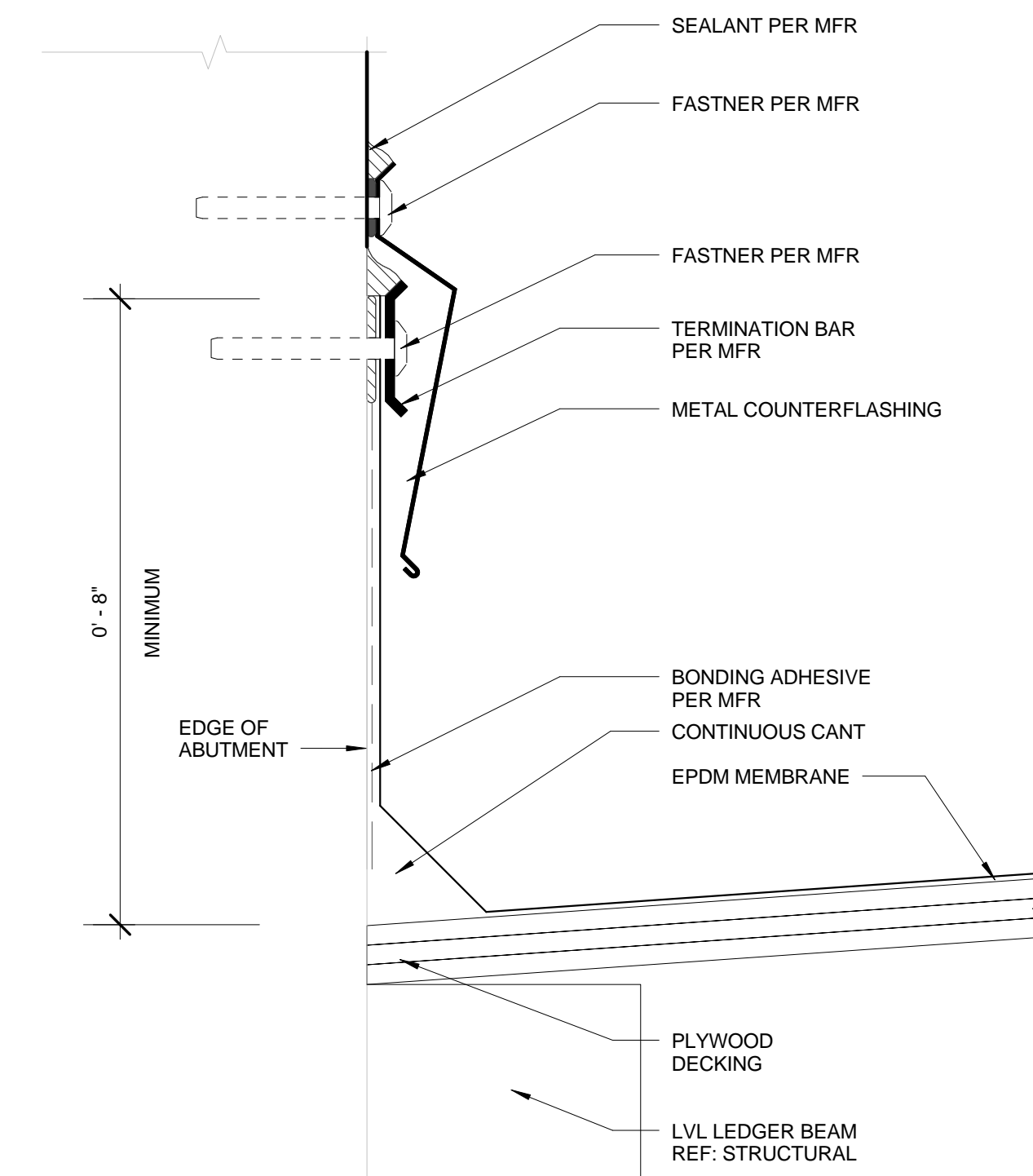
6 STAGE LIGHT ROD DETAIL  
3" = 1'-0"



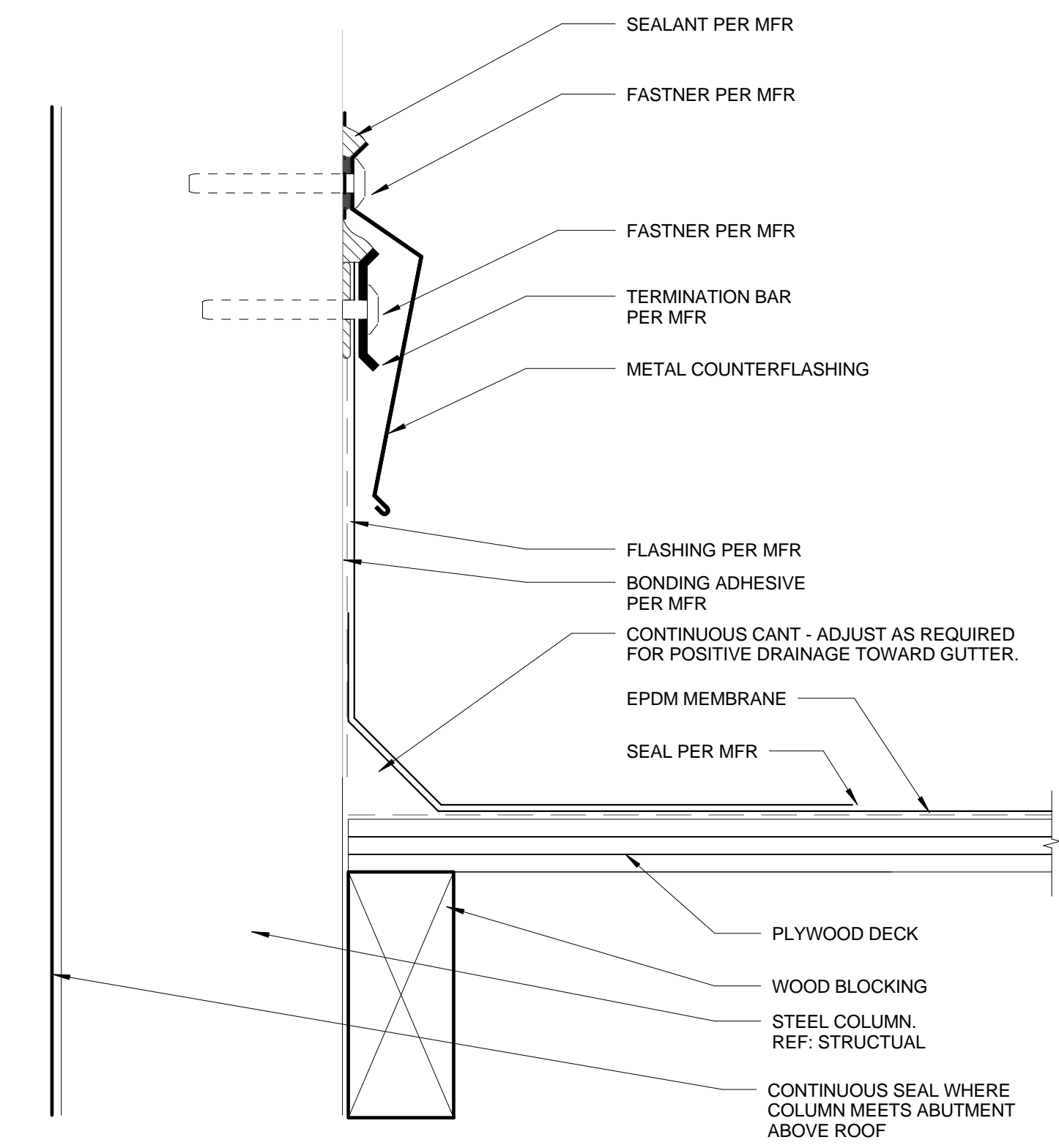
5 CURTAIN ROD HANGING DETAIL  
6" = 1'-0"



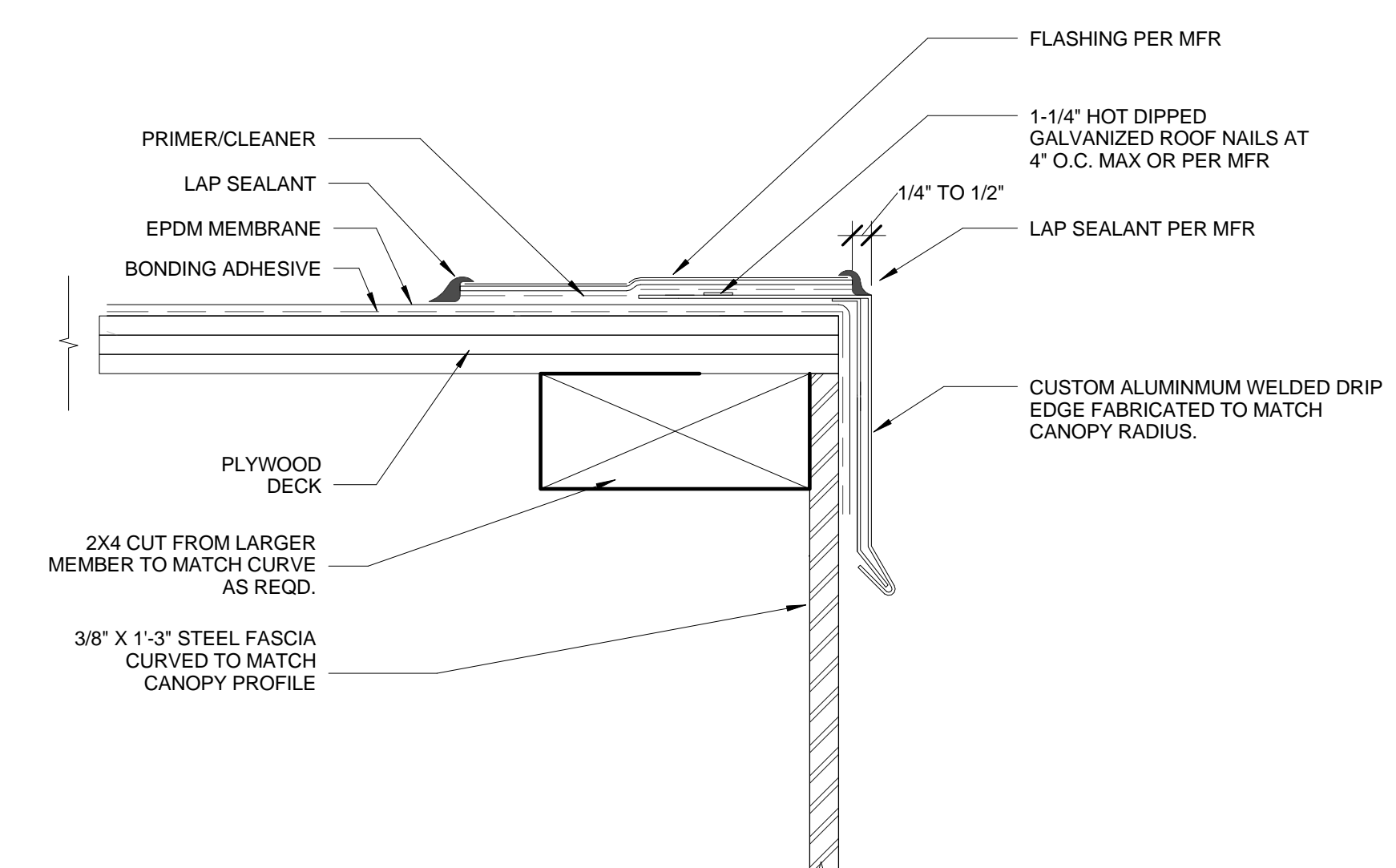
4 GUTTER DETAIL  
6" = 1'-0"



3 ROOF TERMINATION DETAIL  
6" = 1'-0"



2 ROOF PENETRATION AT COLUMN  
6" = 1'-0"



1 ROOF EDGE DETAIL  
6" = 1'-0"

GENERAL NOTES

- 1. DESIGN CODES AND GUIDANCE DOCUMENTS:
A. 2012 MICHIGAN BUILDING CODE (MBC).
B. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ANS/AISC 360-10.
C. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. AISC 303-10.
D. AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION.
E. AMERICAN WELDING SOCIETY (AWS)
a) AWS D1.1: 2010 STRUCTURAL STEEL
b) AWS D1.2: 2014 ALUMINUM
c) AWS D1.3: 2008 SHEET STEEL
d) AWS D1.4: 2001 REINFORCING STEEL
e) AWS D1.6: 2007 STAINLESS STEEL
F. OCCUPATIONAL SAFETY AND HEALTH ACT, OSHA REGULATIONS (STANDARDS-29 CFR) PART 1926 SUBPART R-STEEL ERECTION.
G. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF STRUCTURES DURING CONSTRUCTION. THE ENGINEER TAKES NO RESPONSIBILITY FOR MEANS, METHODS OR SAFETY DURING CONSTRUCTION.
3. DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES ARE BASED ON PREVIOUS CONSTRUCTION DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING W/ FIELD MEASUREMENTS ALL DIMENSIONS AND ELEVATIONS FOR FABRICATION AND/OR MODIFICATIONS OR ADDITIONS BEING MADE UNDER THIS CONTRACT.

STEEL

- 1. STRUCTURAL STEEL AND MISCELLANEOUS METAL WORK SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ANS/AISC 360-10 AND AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES (AISC 303-10).
2. ALL MISCELLANEOUS METALS SHALL CONFORM TO ASTM A-36.
3. ALL STRUCTURAL STEEL TUBES (HSS) SHALL CONFORM TO ASTM A500, GRADE B.
4. ALL STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B, TYPE E OR S. SEE NOTE #9 BELOW.
5. ALL STEEL COLUMNS, PLATES, BRACING AND SUPPORT FRAMING BEAMS SHALL BE SHOP PAINTED PER SPECIFICATIONS.
6. BOLTS SHALL BE A MINIMUM 3/4" DIAMETER, ASTM A325N, TYPE 1, UNLESS NOTED OTHERWISE. PROVIDE COMPATIBLE A563 GRADE DH, HEAVY HEX NUTS AND F438 GRADE 1 WASHERS.
7. ALL SHOP CONNECTIONS SHALL BE WELDED. ALL PRINCIPAL FIELD CONNECTIONS SHALL BE 3/4" DIA (MIN) HS BOLTS, UNLESS DETAILED OTHERWISE.
8. WELDING SHALL CONFORM TO AWS D1.1-1 AND AISC 341-05. ALL ELECTRODES FOR SHOP AND FIELD WELDS SHALL CONFORM TO AWS A5.1 OR A5.5, CLASS E70XX.
9. ALL STEEL ELEMENTS SHALL BE FINISHED AS FOLLOWS WITH A ZINC-RICH URETHANE/ INORGANIC WATER-BASED EPOXY/POLYURETHANE SYSTEM:
1. SURFACE PREPARATION: SSPC-SP6/NACE 3.
2. SHOP PRIME WITH SERIES 94-H2O HYDRO-ZINC, (DFT 2.5 TO 3.5 MILS) BY TNE MEC CO. (OR APPROVED EQUAL)
3. SHOP COAT BACKSIDE OF COLUMNS C-1 & C-2 (SURFACE EXPOSED TO CONCRETE ABUTMENT) WITH BITUMASTIC 300M (DFT 20 MILS) BY CARBOLINE (OR APPROVED EQUAL).
4. FIELD TOUCH-UP ALL WELDS AND DAMAGED AREAS WITH HYDRO-ZINC PRIMER AFTER STEEL ERECTION.
5. FIELD COAT ALL EXPOSED STEEL WITH INTERMEDIATE COAT OF SERIES 27WB TYPOXY (DFT 4.0 TO 6.0 MILS) BY TNE MEC CO. (OR APPROVED EQUAL).
6. FIELD COAT ALL EXPOSED STEEL WITH FINISH COAT OF SERIES 1095 ENDURA-SHIELD (2-COATS AT DFT 2.0 TO 3.0 MILS) BY TNE MEC CO. (OR APPROVED EQUAL).

WOOD FRAMING

- 1. ALL PURLINS SHALL BE NOMINAL 2x4, SPRUCE-PINE-FUR NO. 1. ALL PURLINS SHALL BE WOLMANIZED TREATED CONFORMING TO AWPA CATEGORY UC3B.
2. ALL PURLINS SHALL BE FASTENED WITH HU24TF STAINLESS STEEL HANGERS (BY SIMPSON STRONG-TIE) AT BOTH ENDS WITH STAINLESS STEEL RING SHANK NAILS PER MANUFACTURERS RECOMMENDATIONS.
3. ALL JOISTS AND LEDGER BEAMS SHALL BE 3 1/2"x11 7/8" PARALLAM PLUS PSL MEMBERS WITH WOLMANIZED TREATMENT, UNLESS OTHERWISE NOTED, WITH THE FOLLOWING PROPERTIES:
A. MEETS REQUIREMENTS OF AWPA USE CATEGORY UC3B
B. SERVICE LEVEL 2
C. MIN. MODULUS OF ELASTICITY AT SERVICE LEVEL 1.46x10 PSI
D. MIN. ALLOWABLE FLEXURAL STRESS AT SERVICE LEVEL 1,800 PSI
E. ALL FASTENERS SHALL BE 304 STAINLESS STEEL
4. ALL PLYWOOD SHALL BE MARINE GRADE PLYWOOD CONFORMING TO APA SERIES V-600, EXPOSURE 1. TOTAL PLYWOOD SHEATHING SHALL BE 3/4" THICK (TOTAL THICKNESS) INSTALLED IN A MINIMUM OF (3)-1/4" PLIES. THINNER PLIES MAY BE REQUIRED TO CREATE WARPED SURFACE WITHOUT DAMAGING LAMINATES ALL INTERMEDIATE PLIES SHALL BE FULLY ADHERED WITH WATER PROOF GLUE AND NAILED TO SUPPORT MEMBERS WITH STAINLESS STEEL NAILS AS REQUIRED TO CONSTRUCT THE 3/4" THICK SHEATHING.
5. FINAL PLYWOOD FASTENERS SHALL CONSIST OF STAINLESS STEEL (ASTM A304) 10d RING SHANK NAILS SPACED AT 6" MAXIMUM AT PANEL EDGES AND AT ALL INTERMEDIATE SUPPORTS.

CONCRETE

- 1. ALL CONCRETE FOR FOUNDATIONS SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
2. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.

CONCRETE/ABUTMENT REPAIR

- 1. LOCATE AREAS OF CONCRETE INDICATED ON SHEET S-2. MARK ON SURFACE OF CONCRETE THE AREA TO BE REPAIRED AS SPECIFIED. PRIOR TO THE REMOVAL OF ANY CONCRETE, PROVIDE 24 HOURS NOTICE TO THE ENGINEER IN ORDER FOR THE ENGINEER AND CONTRACTOR TO VERIFY REPAIR LIMITS.
2. SAWCUT PERIMETER OF AREA TO BE REPAIRED TO DEPTH OF 4" AS SHOWN. THE REPAIRED AREAS SHALL BE IN A RECTANGULAR SHAPE, WITH SAW CUTS AT RIGHT ANGLES.
3. REMOVE ALL BOND INHIBITING MATERIALS FROM CONCRETE INCLUDING BUT NOT LIMITED TO DIRT, CONCRETE SLURRY, AND LOOSELY BONDED AGGREGATE. BY ABRASIVE BLASTING OR HIGH PRESSURE WATERBLASTING. CHECK THE SURFACE AFTER CLEANING TO INSURE THAT SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE AND THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT.
4. INSTALL DOWELS WITH 180° HOOKS AS SHOWN. THEN INSTALL REMAINING REINFORCING.
5. COAT ALL EXPOSED CONCRETE SURFACES TO RECEIVE PATCHING MATERIAL WITH CORROSION INHIBITION BONDING AGENT AND APPLY PATCH MATERIAL AS SPECIFIED.
6. PRIOR TO ANY PATCHING OF CONCRETE, PROVIDE 24 HOUR NOTICE TO THE ENGINEER FOR INSPECTION OF THE REPAIRED LIMITS AND TO QUANTIFY REPAIR AREAS AND CONFIRM PROPER PREPERATION OF CONCRETE SUBSTRATE.
7. CONCRETE REPAIR MORTAR SHALL BE SIKA CRETE 211 SCC PLUS.

DESIGN LOADS

- 1. DESIGN LOADS SHALL BE IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE 2012 (MBC) AND NFPA 68/69.
A. SNOW LOADS
1. FLAT ROOF SNOW LOAD: Pf=25psf
2. SNOW EXPOSURE FACTOR: CE=1.2
3. SNOW LOAD IMPORTANCE FACTOR: I=1.0
4. THERMAL FACTOR: CT=1.2
5. DRIFTING SNOW PER ASCE-10
B. WIND LOADS
1. BASIC WIND SPEED (3-SECOND)=115mph
2. WIND EXPOSURE CATEGORY: C
3. HEIGHT AND EXPOSURE FACTOR: Kz=0.9
Sd=1.073
C. EARTHQUAKE LOADS
1. SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS: Ss=0.090
2. SPECTRAL RESPONSE ACCELERATION AT 1-SEC PERIODS: S1=0.046
3. SITE CLASS D (ASSUMED PENDING FINAL GEOTECHNICAL REPORT)
4. DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS Sds=0.096
5. DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SEC PERIODS Sd1=0.073
6. SEISMIC USE GROUP: III
7. SEISMIC IMPORTANCE FACTOR: I=1.25
D. LIVE LOAD: 20 PSF

MISCELLANEOUS NOTES

- 1. ALL EXISTING DIMENSIONS AND ELEVATIONS SHOWN WITH THE ± SYMBOL, ARE APPROXIMATE AND SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.
2. ALL ADHESIVE ANCHORING SYSTEMS FOR POST INSTALLED ANCHORS AND/OR REINFORCING DOWELS IN CONCRETE AND MASONRY SHALL BE "HIT-HY 200 ADHESIVE ANCHORING SYSTEM" BY HILTI AT SIZE AND SPACING INDICATED ON DRAWINGS (OR APPROVED EQUAL).
3. ALL POST INSTALLED ANCHORS/ANCHOR BOLTS INTO NEW OR EXISTING CONCRETE SHALL BE ASTM A316 STAINLESS STEEL THREADED ROD WITH STAINLESS STEEL WASHER AND NUT.

CANOPY INSTALLATION REQUIREMENTS AND RECOMMENDED CONSTRUCTION SEQUENCE

- 1. PERFORM PARTIAL ABUTMENT DEMOLITION AND EXISTING PAVEMENT DEMOLITION AS SHOWN ON SHEET S-2 AND AS REQUIRED TO CONSTRUCT THE PROPOSED CANOPY. CORE DRILL HOLES THROUGH TOP OF ABUTMENT (4 LOCATIONS) FOR NEW 1" DIA THROUGH BOLTS. CONCRETE CORES SHALL BE INSPECTED BY ENGINEER PRIOR TO INSTALLING BOLTS.
2. EXCAVATE BEHIND TOP OF EXISTING ABUTMENT AS INDICATED ON SHEET S-2 AND S-3.
3. INSTALL NEW DOWELS (WITH ADHESIVE ANCHORING SYSTEM) FOR THE 'ABUTMENT MODIFICATIONS' SHOWN ON SHEETS S-2 AND S-3.
4. INSTALL COLUMN SUPPORT PIERS, BRACE SUPPORT PIERS AND CONCRETE REPLACEMENT AT LEDGER BEAM AS SHOWN ON SHEET S-3.
5. LOCATE ALL UNDERGROUND UTILITIES IN THE VICINITY OF THE PROPOSED CANOPY FOUNDATION.
6. REMOVE PORTIONS OF EXISTING RETAINING WALL AND EXCAVATE FOR NEW CANOPY FOUNDATION.
7. RELOCATE ANY UTILITIES THAT INTERFERE WITH THE CONSTRUCTION OF THE PROPOSED FOUNDATIONS. IF REQUIRED, FIBER OPTICS CAN BE MOVED BEYOND LIMITS OF FOUNDATION WITHIN EXCAVATION WITH COORDINATION OF THE APPROPRIATE UTILITY.
8. INSTALL ALL DOWELS (WITH ADHESIVE ANCHORING SYSTEM) INTO EXISTING ABUTMENT THAT ARE INDICATED TO BE INCORPORATED INTO THE CANOPY FOUNDATIONS.
9. INSTALL CANOPY FOUNDATIONS AS SHOWN ON SHEET S-4.
10. INSTALL PROPOSED CANOPY SUPPORT STEEL INCLUDING: (3) NEW TUBE COLUMNS, (4) NEW PIPE BEAMS WITH HANGERS, (5) NEW PIPE STRUTS, (1) NEW HSS LEDGER BEAM, AND (5) NEW PIPE BRACES, WITH ALL WELDS AND BOLTS AS SHOWN, PROVIDE ALL TEMPORARY SHORING AND BRACING NECESSARY TO ERECT NEW SUPPORT STEEL.
11. INSTALL PROPOSED WOOD LEDGER BEAMS TO FACE OF EXISTING ABUTMENT (ANCHOR TO NEW 'CONCRETE REPLACEMENT AT LEDGER BEAM' AS SHOWN ON SHEET S-3).
12. INSTALL AND FASTEN JOIST J-2 THROUGH J-18. INSTALL AND FASTEN ALL PURLINS BETWEEN JOIST J-2 AND J-16. PROVIDE ALL TEMPORARY SHORING AND BRACING REQUIRED TO INSTALL WOOD FRAMING.
13. INSTALL AND CONNECT PROPOSED STEEL FASCIA BEAM.
14. INSTALL JOIST J-1 AND J-19 AND ALL PARTIAL, REMAINING PURLINS.
15. INSTALL NEW PLYWOOD SHEATHING. INSTALL IN A MINIMUM OF (3) SEPARATE PLIES OF 1/4" THICK, MARINE GRADE PLYWOOD FOR A TOTAL THICKNESS OF 3/4". CONTRACTOR MAY INSTALL WITH MORE, THINNER PLIES IF REQUIRED TO WARP SHEATHING WITH OUT DAMAGING SHEATHING. THE FIRST PLY SHALL BE ADHERED TO ALL PERIMETER AND INTERMEDIATE PURLINS AND JOISTS WITH A CONTINUOUS BEAD OF WATER PROOF GLUE. EACH SUBSEQUANT LAYER/PLY SHALL BE FULLY ADHERED TO THE PREVIOUS PLY WITH WATER PROOF GLUE AND SHALL BE SECURED WITH STAINLESS STEEL NAILS OR SCREWS. SPACING OF SS FASTENERS SHALL BE DETERMINED BY THE CONTRACTOR AS REQUIRED TO SECURE THE SHEATHING DURING CONSTRUCTION. FINAL PLY SHALL BE SECURED WITH STAINLESS STEEL RING SHANK NAILS AT A MAX SPACING OF 6" SECURED INTO ALL PERIMETER AND INTERMEDIATE PURLINS AND JOISTS.
16. INSTALL GUTTER, DOWNSPOUT AND ROOFING INCLUDING ALL FLASHING AS SHOWN ON ARCHITECTURAL DRAWINGS.

ABBREVIATIONS

Table with 3 columns: Abbreviation, Description, and Unit/Measure. Includes terms like ALT, B, BLDG, BM, BSMT, CJ, CL, CLR, COL, CONC, CONSTR, CONT, CLSM, COR, CY, DET, DIA, DIAG, DISC, DIST, DWLS, EJ, EE, EF, ES, EW, EA, EL, EXG, EXT, FD, FF, FS, FIN, FL, FND, FT, GALV, GR, H OR HORIZ, ALTERNATE, BOTTOM BUILDING, BEAM, BASEMENT, CONSTRUCTION JOINT, CENTERLINE, CLEAR, COLUMN, CONCRETE, CONSTRUCTION, CONTINUOUS, CONTROLLED LOW STRENGTH MATERIAL, CORNER, CUBIC YARD, DETAIL, DIAMETER, DIAGONAL, DISCONTINUOUS, DISTANCE, DOWELS, EXPANSION JOINT, EACH END, EACH FACE, EACH SIDE, EACH WAY, EACH, ELEVATION, EXISTING, EXTERIOR/EXTENSION, FLOOR DRAIN, FAR FACE, FAR SIDE, FINISH, FLOOR, FOUNDATION, FEET, GALVANIZED, GRADE, HORIZONTAL, HP, HK, HT, ID, IE, IF, IN, INT, JT, KIP, KB, LP, LGTH, MAX, MIN, MO, NF, NS, NTS, NIC, OC, OD, OF, OPNG, PSF, PSI, REINF, RE, SHTS, SIM, SJ, SS, STIR, STRUCT, T/, TOS, TYP, UNO, V OR VERT, WP, HIGH POINT, HOOK, HEIGHT, INSIDE DIAMETER, INVERT ELEVATION, INSIDE FACE, INCHES, INTERIOR, JOINT, THOUSAND POUNDS, KNEE BRACE, LOW POINT, LENGTH, MAXIMUM, MINIMUM, MASONRY OPENING, ON CENTER, NEAR SIDE, NOT TO SCALE, NOT IN CONTRACT, OUTSIDE DIAMETER, OUTSIDE FACE, OPENING, POUNDS PER SQ. FOOT, POUNDS PER SQ. INCH, REINFORCEMENT, REFER TO, SHEETS, SIMILAR, SLAB CONTROL JOINT, STAINLESS STEEL, STIRRUPS, STRUCTURAL, TOP, ELEVATION TOP OF STRUCTURAL STEEL, TYPICAL, UNLESS NOTED OTHERWISE, VERTICAL WORK POINT

HamiltonAnderson architecture landscape architecture urban design

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Table with 2 columns: Professional Designation and Address. Includes Structural, Civil and Electrical Engineer, Waive Trim, 511 Griswold St #2500, Detroit, MI 48226, 313 961 3650

Client DETROIT RIVERFRONT CONSERVANCY

600 RENAISSANCE CENTER, SUITE 1720
DETROIT, MI 48243

Key Plan

Large empty table with multiple rows and columns, likely a placeholder for a key plan or schedule.

BIDS 11 JAN 2016

Project

CAMPBELL MEMORIAL TERRACE

Drawing Title GENERAL NOTES AND ABBREVIATIONS

Project Number: 2015061.00

Drawn By: Designer Approved By: Checker

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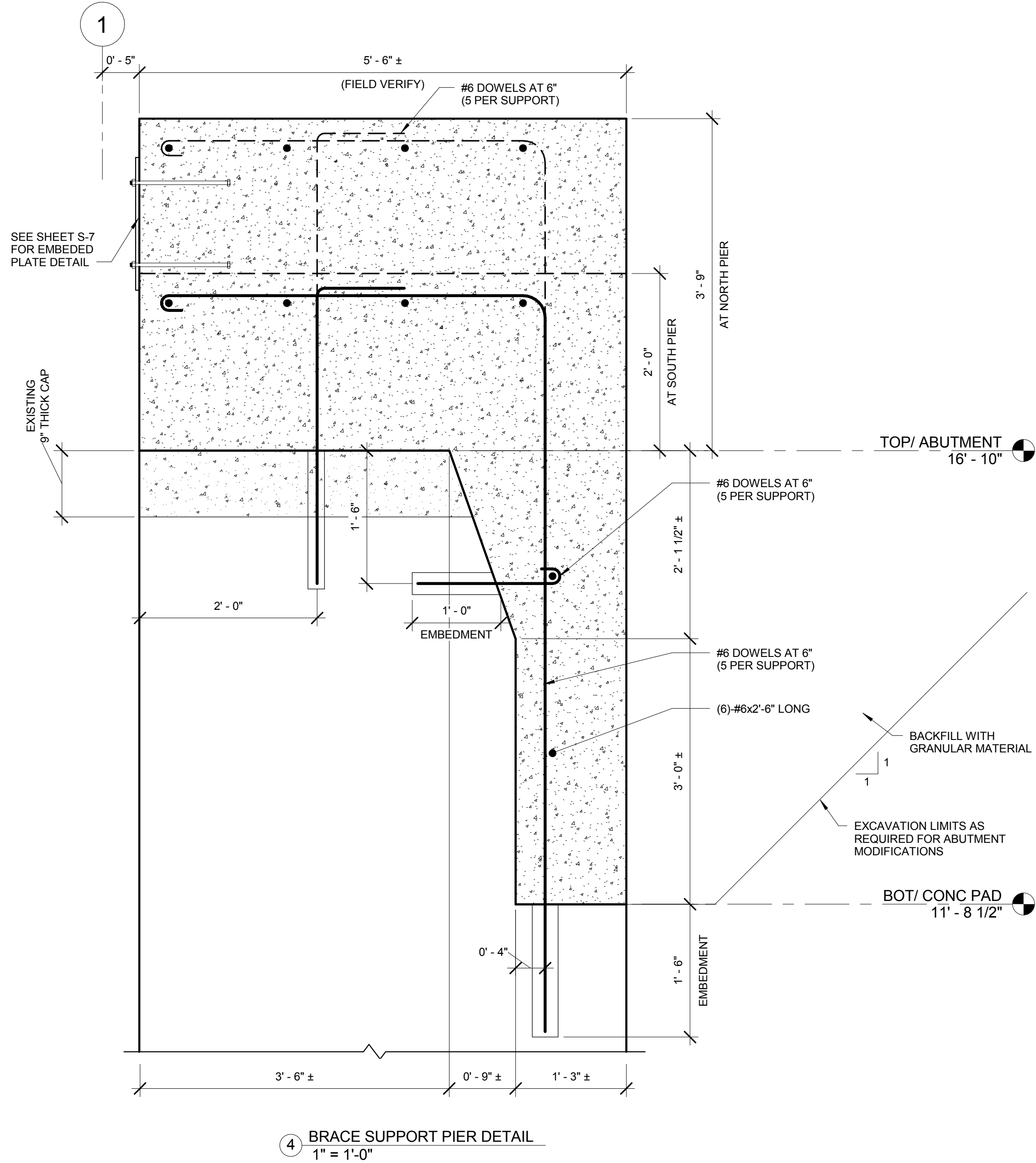
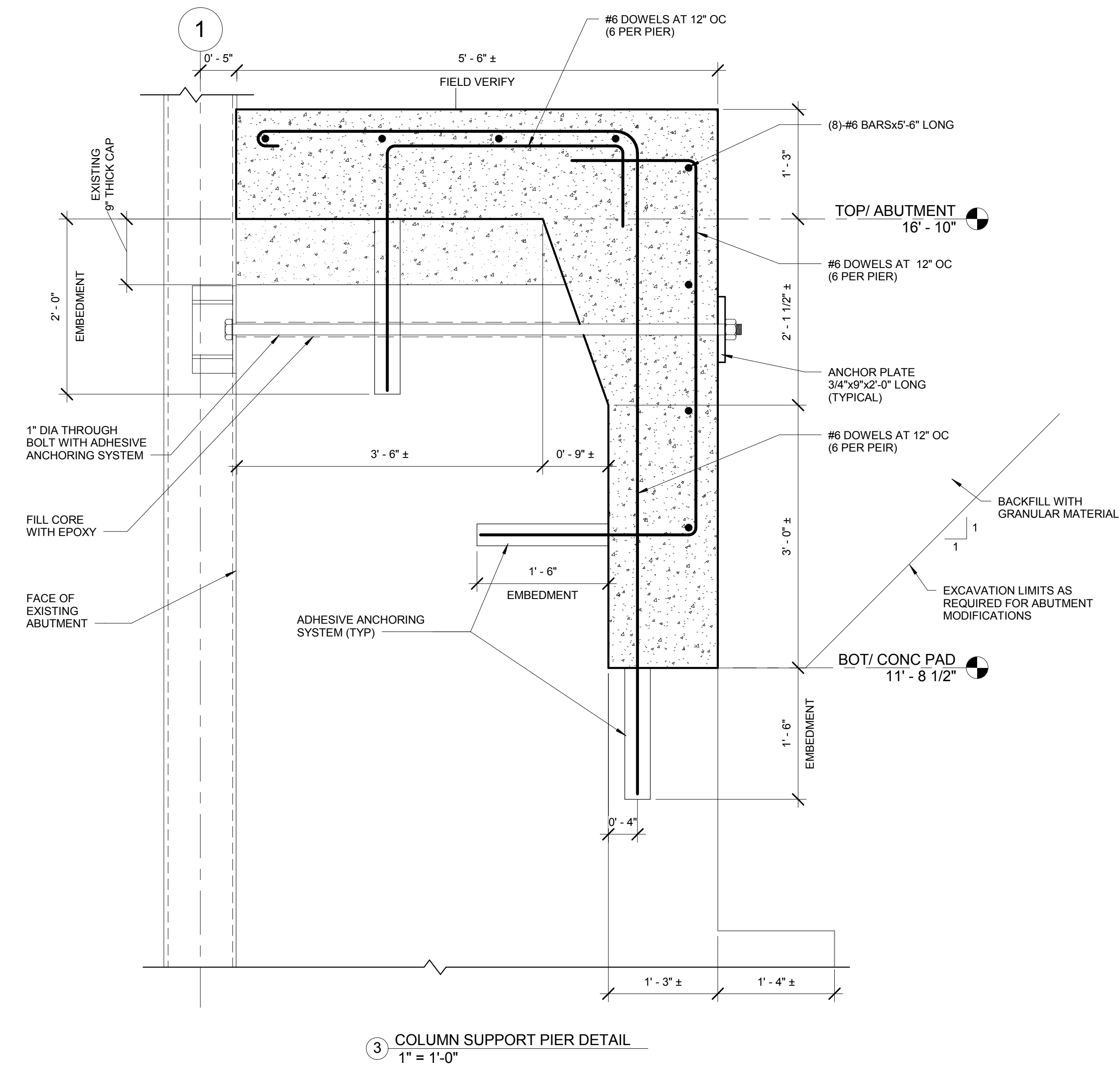
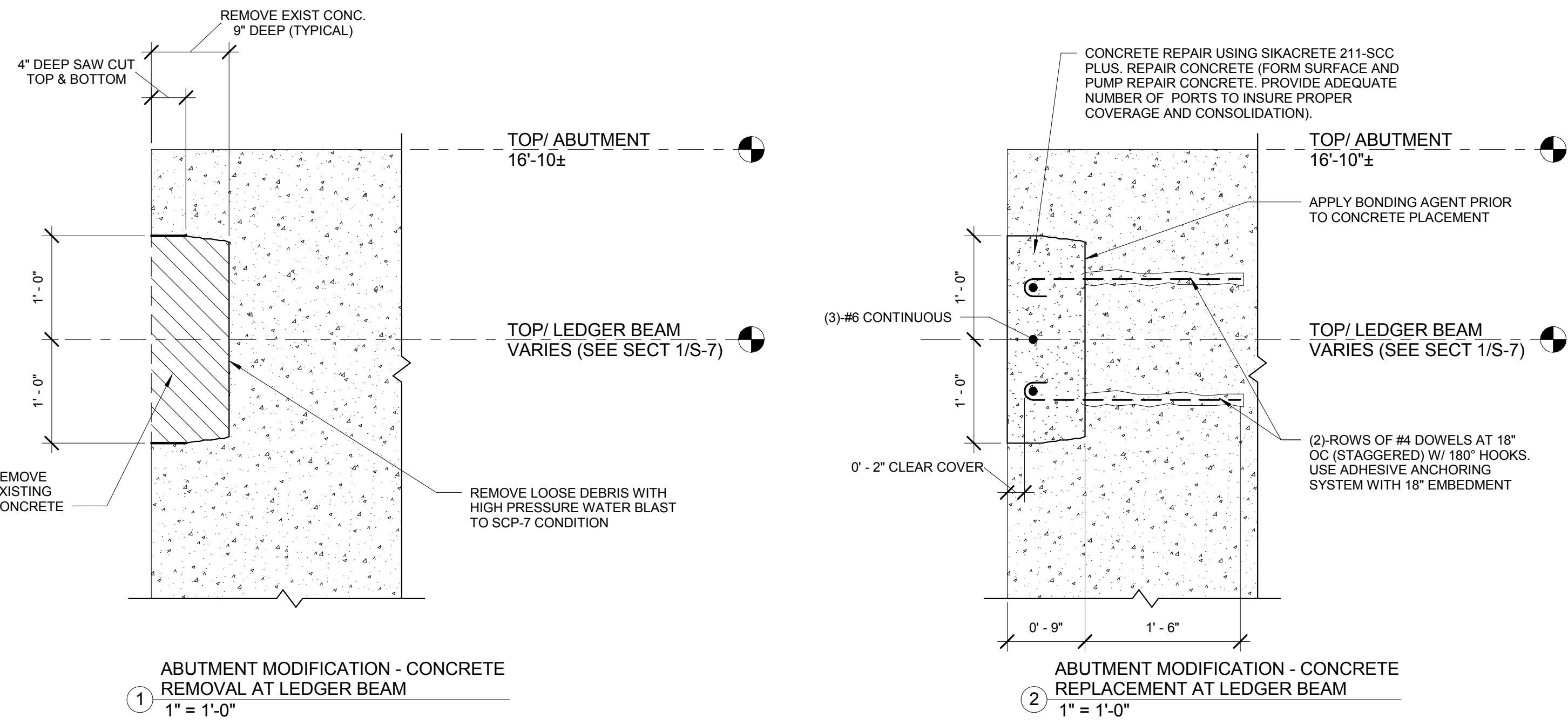
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Drawing No:

S-1







BIDS	11 JAN 2016
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Project  
**CAMPBELL MEMORIAL TERRACE**

Drawing Title  
**EXISTING ABUTMENT MODIFICATION DETAILS**

Project Number: 2015061.00

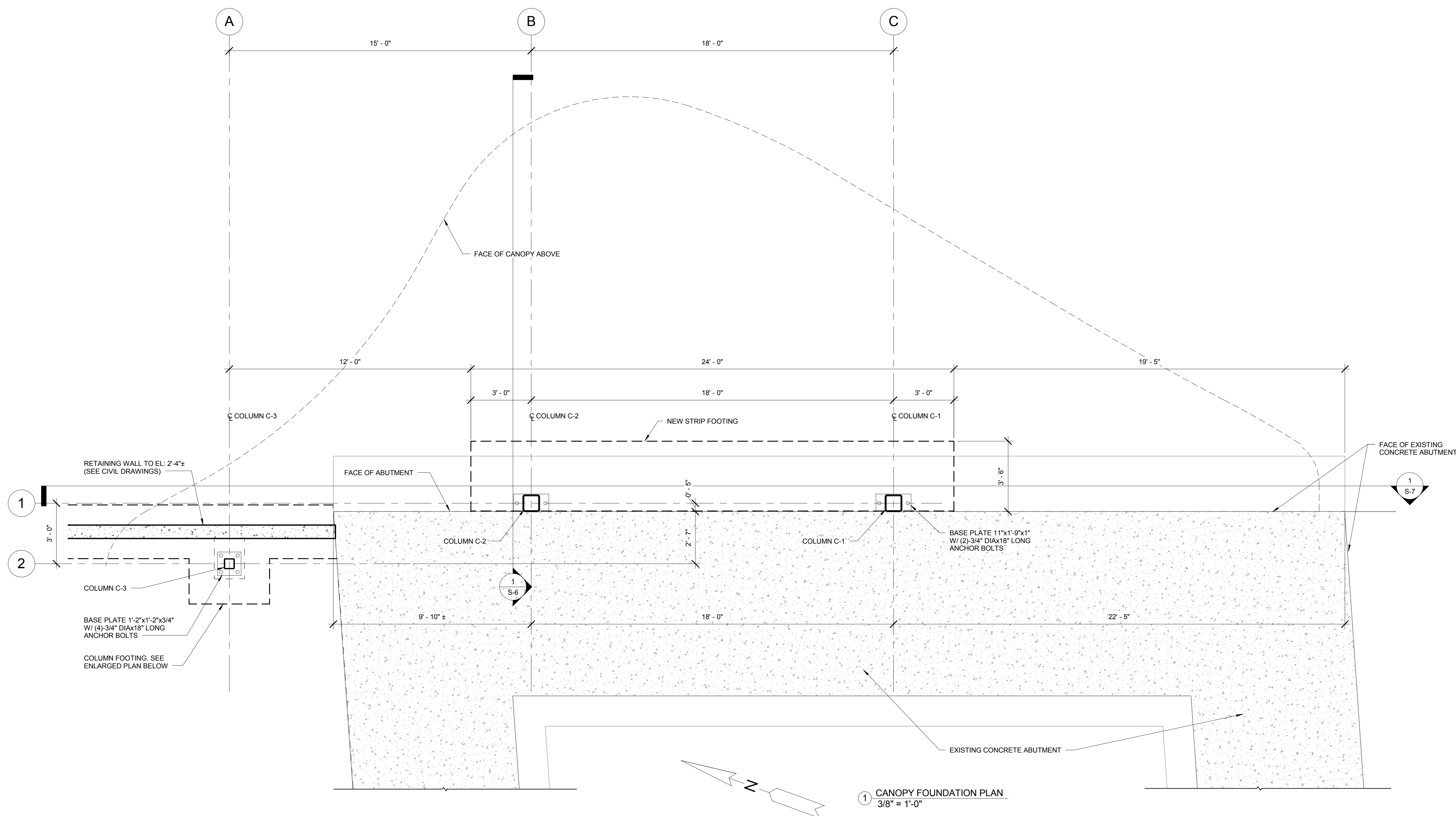
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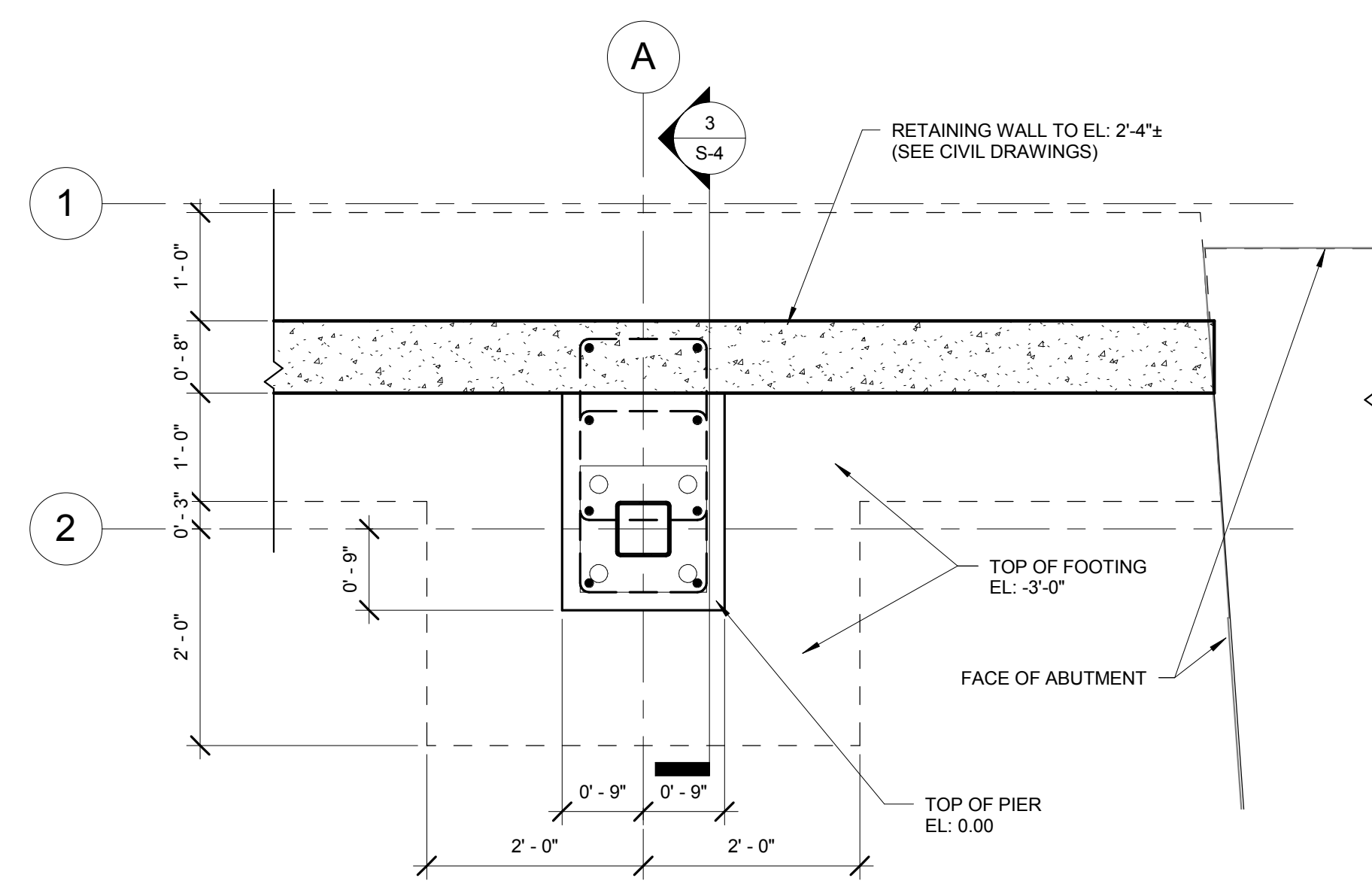
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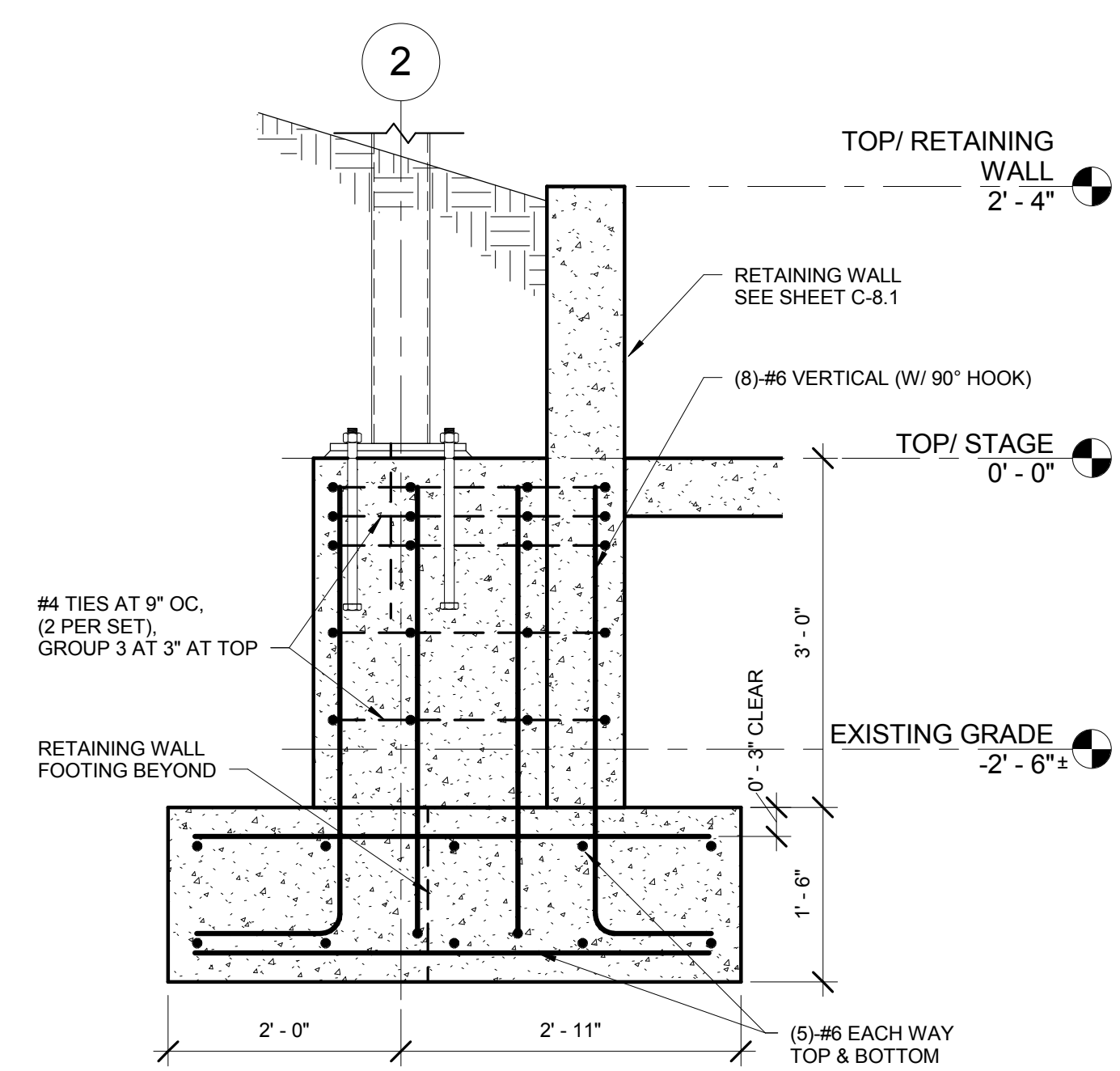
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1 CANOPY FOUNDATION PLAN  
3/8" = 1'-0"



2 ENLARGED FOOTING PLAN AT COL. C-3  
3/4" = 1'-0"



3 SECTION AT C-3 FOOTING  
3/4" = 1'-0"

BIDS 11 JAN 2016

Project  
**CAMPBELL MEMORIAL TERRACE**

Drawing Title  
**CANOPY FOUNDATION PLAN**

Project Number: 2015061.00

Drawn By: Designer Approved By: Checker

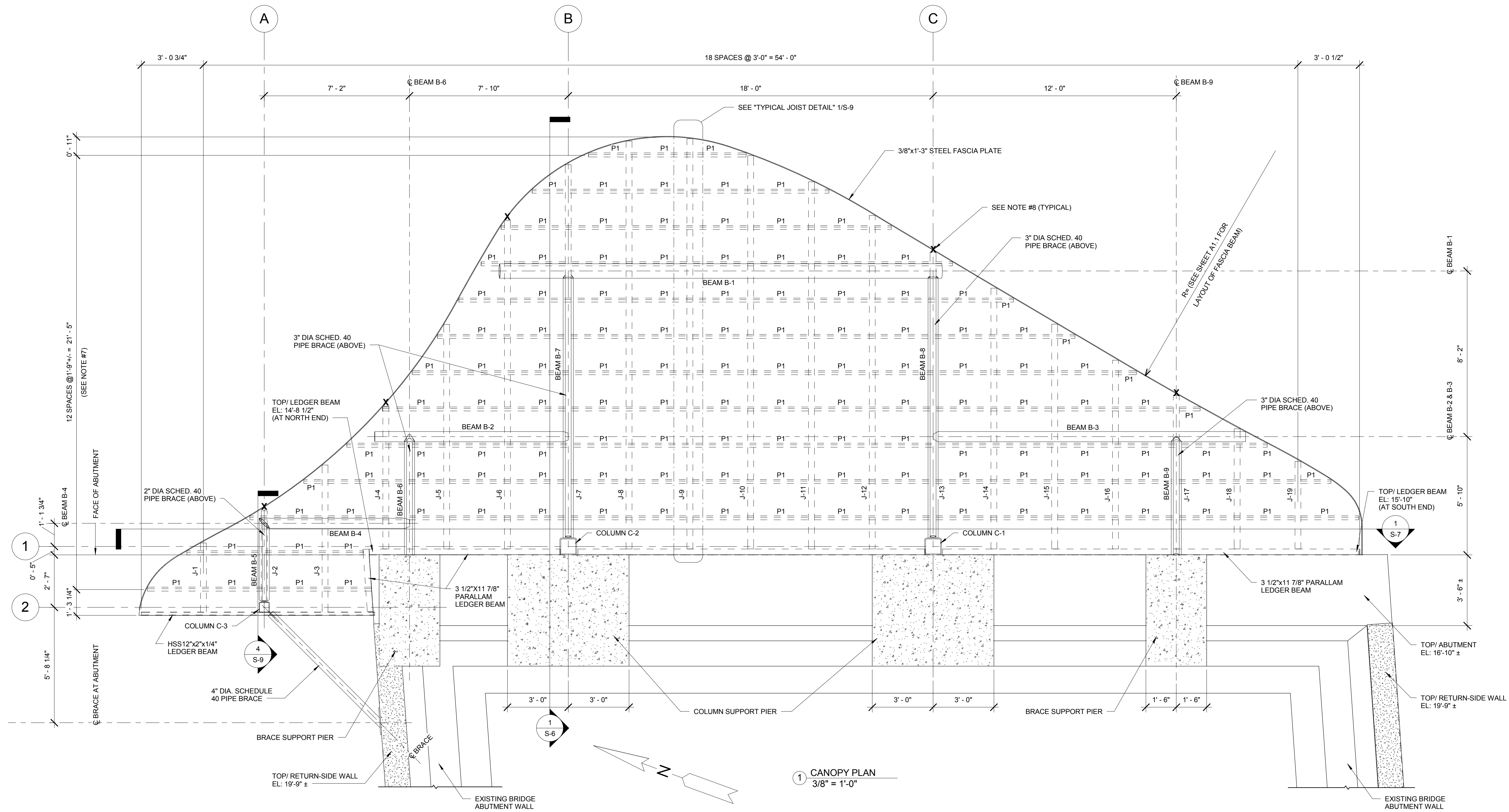
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Seal:

Signature: \_\_\_\_\_

Drawing No:

**S-4**



1 CANOPY PLAN  
3/8" = 1'-0"

- NOTES:
- ALL JOISTS LABELED AS "J-xx" SHALL BE 3 1/2"x11 7/8" PARALLAM PLUS WITH WOLMANIZED TREATMENT (TYPICAL UNLESS OTHERWISE NOTED). SEE SHEET S-8 FOR WOOD JOIST SCHEDULE.
  - ALL PURLINS LABELED AS "P1" SHALL BE 2x4 (NOMINAL) SPF No. 1 - WITH WOLMANIZED PRESERVATIVE TREATMENT.
  - SEE SHEET S-8 FOR CANOPY BEAM SCHEDULE.
  - THE STAGE ELEVATION ALONG THE ABUTMENT WALL IS AT ELEVATION (106.38) (CITY OF DETROIT VERTICAL DATUM). THIS IS REFERENCE ELEVATION 0.00 FOR CANOPY LAYOUT. ALL CANOPY ELEVATIONS ARE BASED ON THE TOP OF STAGE REFERENCE ELEVATION OF 0.00.
  - SEE SHEET S-8 FOR COLUMN SCHEDULE.
  - PLAN DIMENSION OF PURLIN SPACING 1'-9" RESULTS IN A MAXIMUM ACTUAL PURLIN SPACING OF 2'-0" ALONG TOP OF JOIST.
  - X REPRESENTS JOINTS IN METAL FASCIA PLATE.

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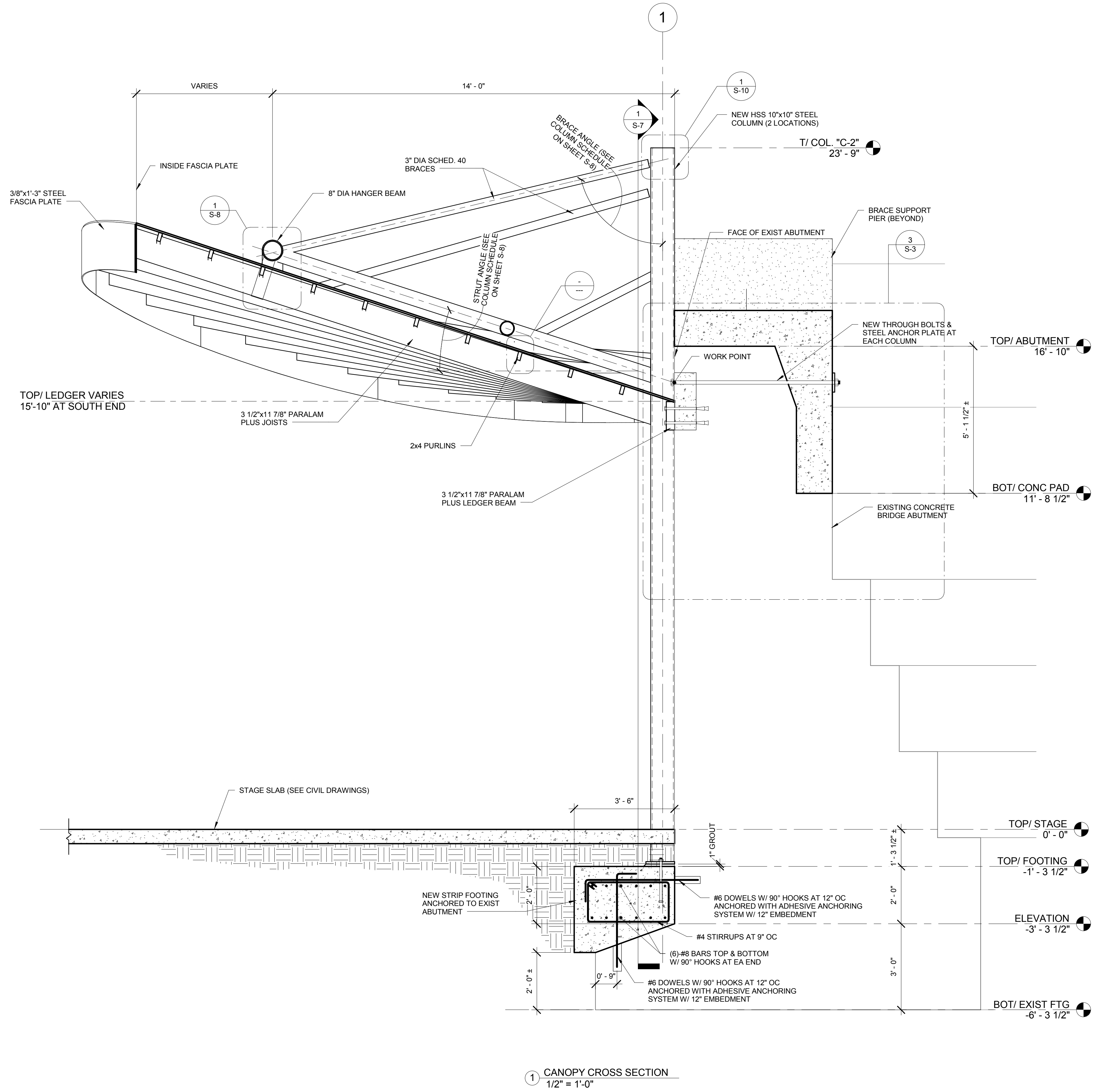
Project  
**CAMPBELL MEMORIAL TERRACE**  
Drawing Title  
**CANOPY PLAN**

Project Number: 2015061.00  
Drawn By: Designer Approved By: Checker  
Scale: 3/8" = 1'-0"  
Seal:

Signature: \_\_\_\_\_

Drawing No:

**S-5**



Client  
**DETROIT RIVERFRONT CONSERVANCY**

600 RENAISSANCE CENTER, SUITE 1720  
 DETROIT, MI 48243

Key Plan

BIDS	11 JAN 2016
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Project  
**CAMPBELL MEMORIAL TERRACE**

Drawing Title  
**CANOPY SECTIONS-1**

Project Number: 2015061.00

Drawn By: Designer Approved By: Checker

Scale: 1/2" = 1'-0"

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Signature: \_\_\_\_\_

Drawing No:

**S-6**

1 CANOPY CROSS SECTION  
 1/2" = 1'-0"

Client  
**DETROIT RIVERFRONT CONSERVANCY**

600 RENAISSANCE CENTER, SUITE 1720  
DETROIT, MI 48243

Key Plan

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Project  
**CAMPBELL MEMORIAL TERRACE**

Drawing Title  
**CANOPY SECTIONS-2**

Project Number: 2015061.00

Drawn By: Designer Approved By: Checker

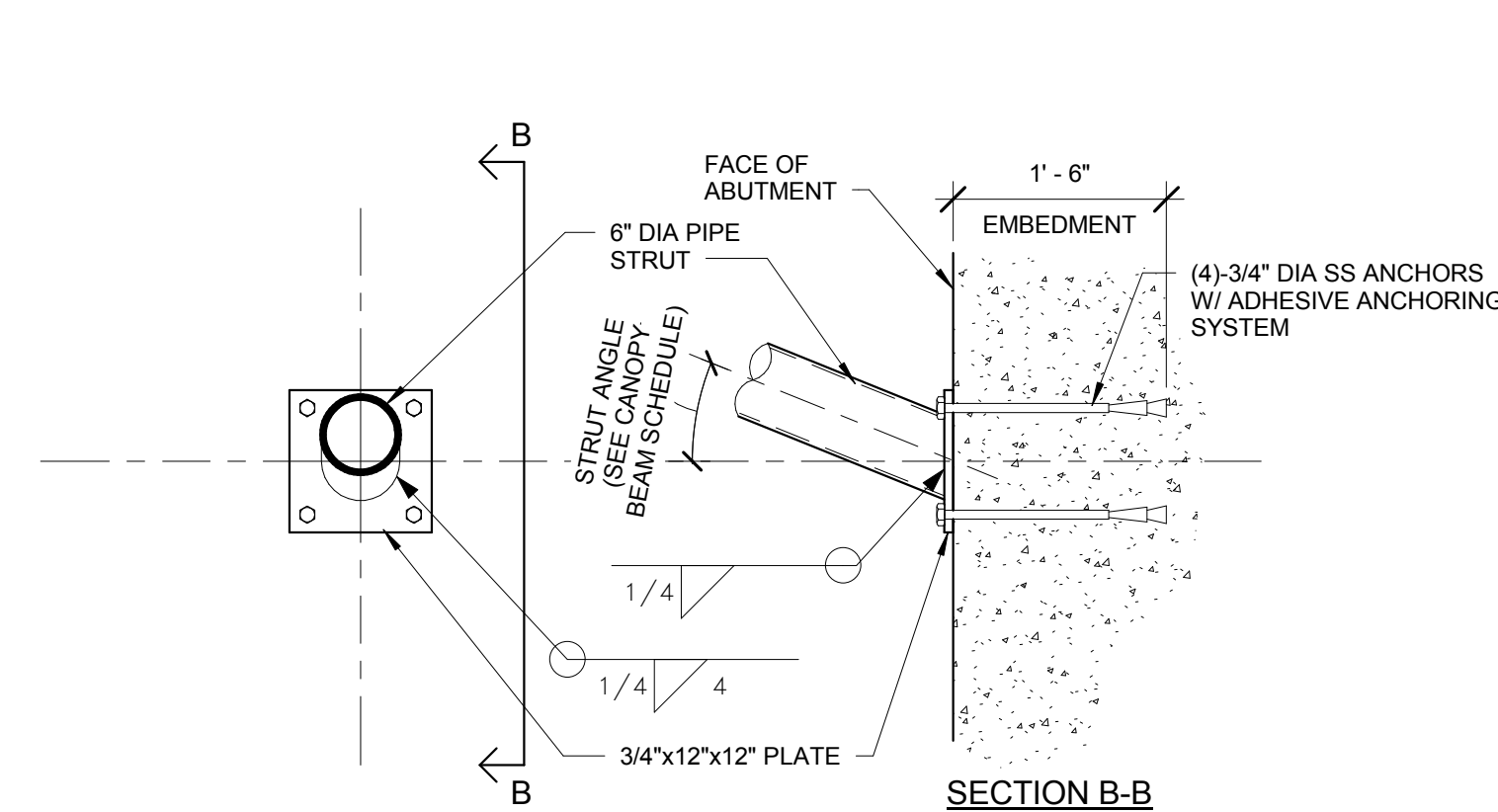
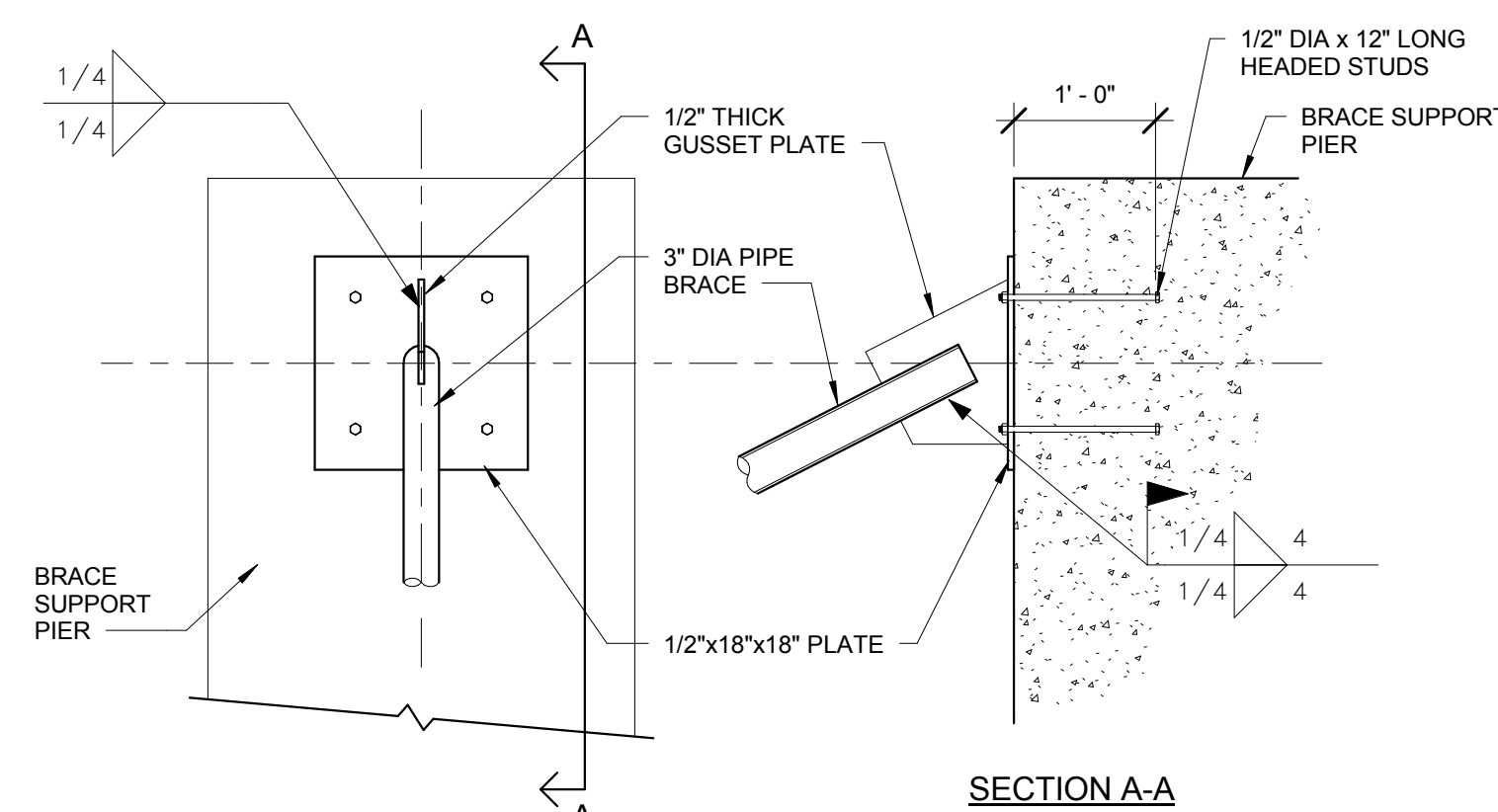
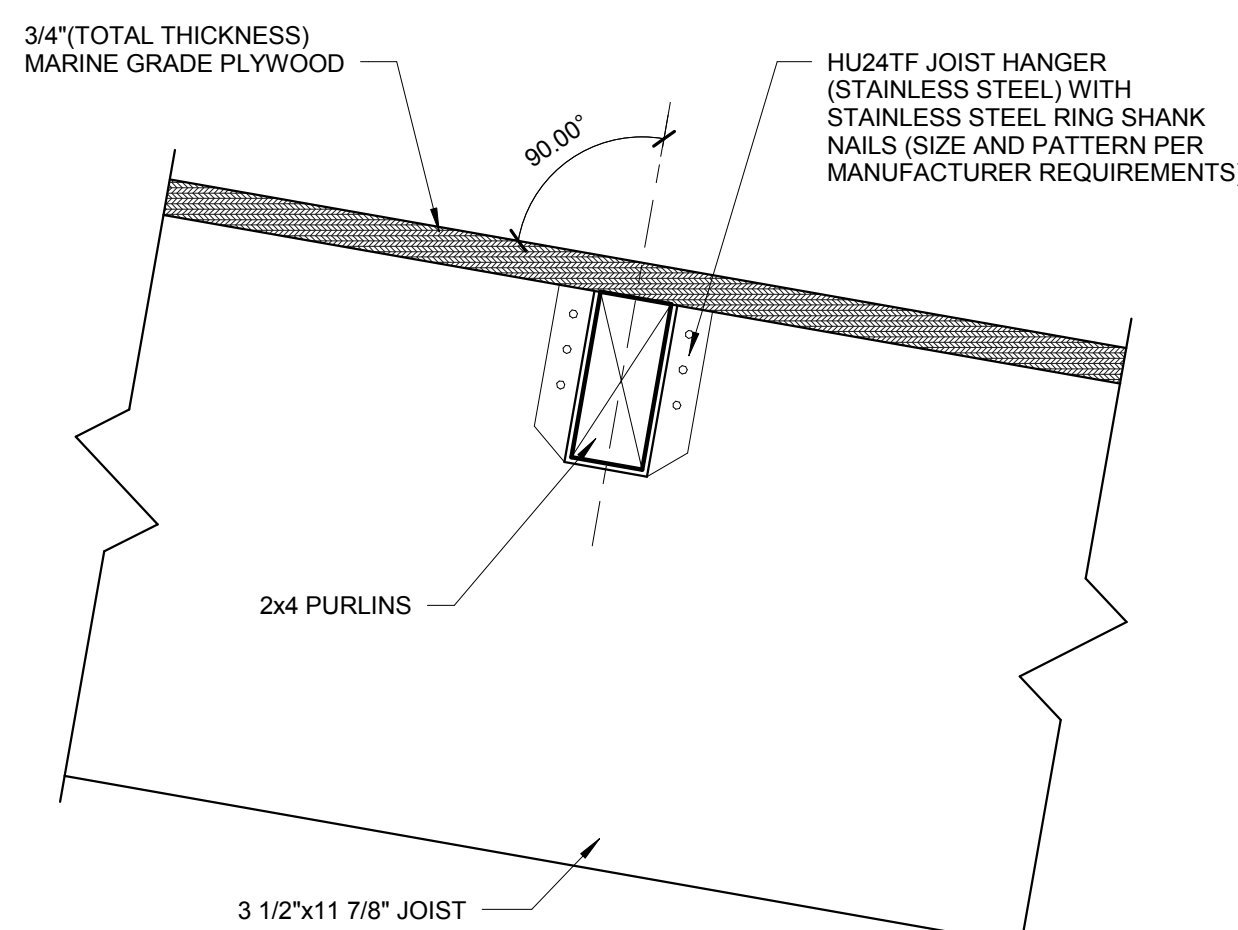
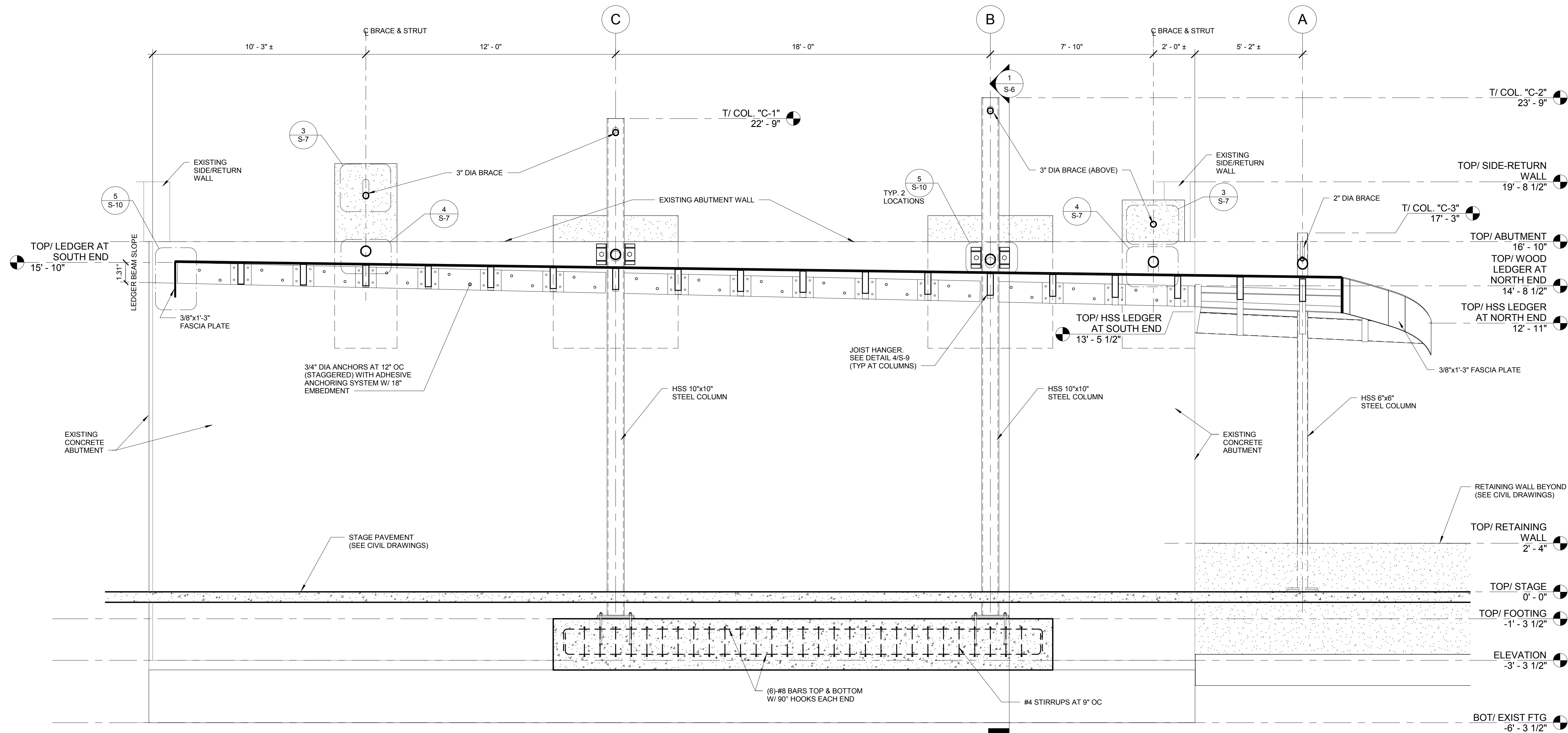
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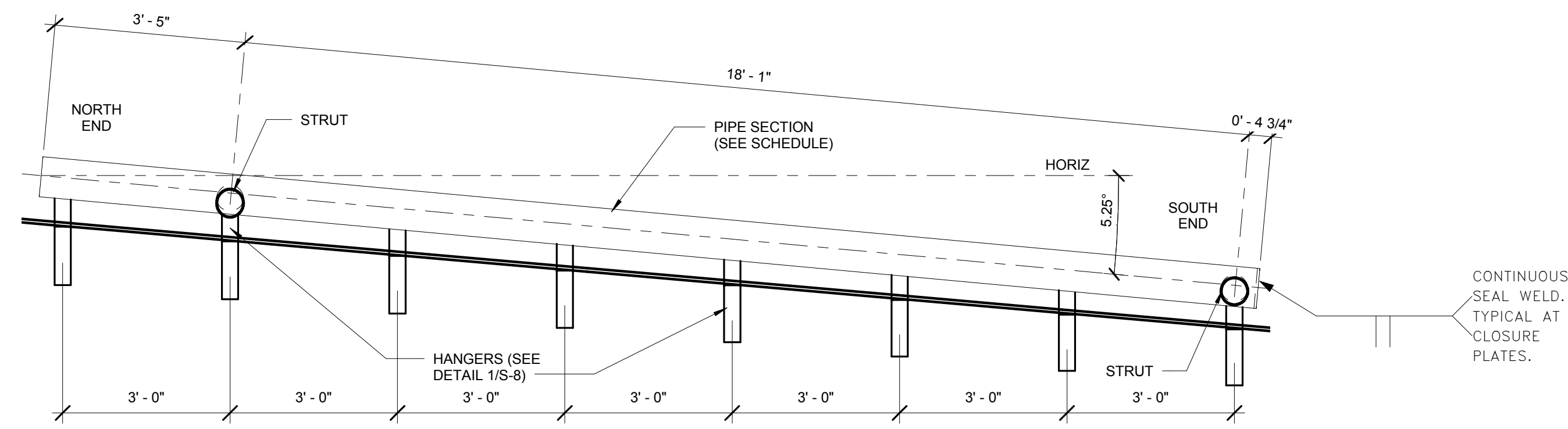
Drawing No:

**S-7**



**CANOPY BEAM SCHEDULE**

BEAM MARK	BEAM SECTION	TYPE	ANGLE	SEE DETAIL	BRACE ANGLE	REMARKS
B-1	PIPE - 6" DIA. EXTRA STRONG	HANGER BEAM	5.25°	A/S-8	NA	PROVIDE CLOSURE PLATE AT BOTH ENDS
B-2	PIPE - 6" DIA. STANDARD WEIGHT	HANGER BEAM	1.38°	B/S-8	NA	PROVIDE CLOSURE PLATE AT OPEN END
B-3	PIPE - 6" DIA. STANDARD WEIGHT	HANGER BEAM	1.38°	C/S-8	NA	PROVIDE CLOSURE PLATE AT OPEN END
B-4	PIPE - 4" DIA. STANDARD WEIGHT	HANGER BEAM	-0.39°	D/S-8	NA	
B-5	PIPE - 4" DIA. STANDARD WEIGHT	STRUT	24.0°	4/S-9	78°	
B-6	PIPE - 6" DIA. STANDARD WEIGHT	STRUT	21.22°	E/S-8	89.5°	
B-7	PIPE - 6" DIA. STANDARD WEIGHT	STRUT	17.92°	E/S-8	76.64°	
B-8	PIPE - 6" DIA. STANDARD WEIGHT	STRUT	9.88°	E/S-8	74.01°	
B-9	PIPE - 6" DIA. STANDARD WEIGHT	STRUT	4.27°	E/S-8	63.0°	

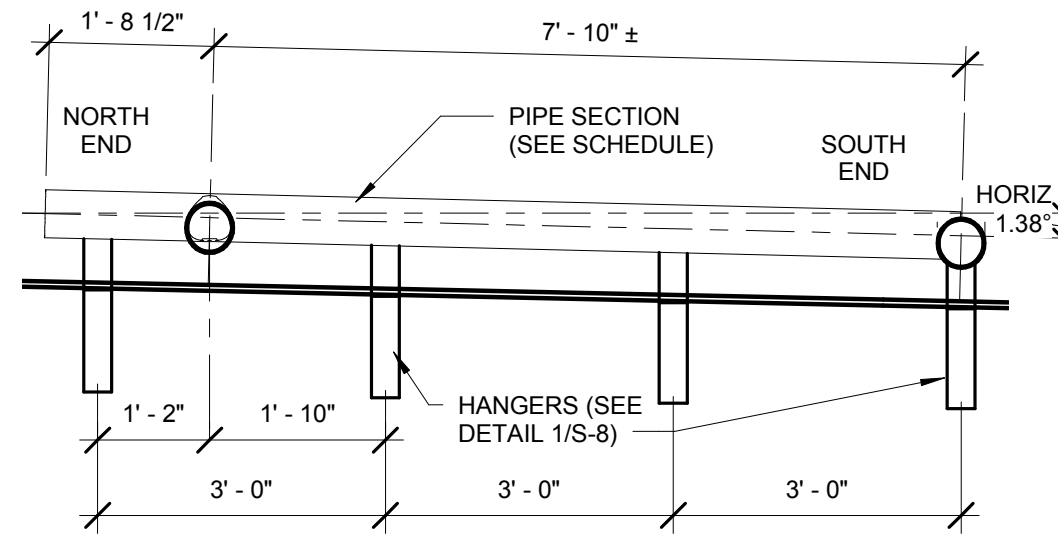


**A HANGER BEAM B-1 DETAIL**  
1/2" = 1'-0"

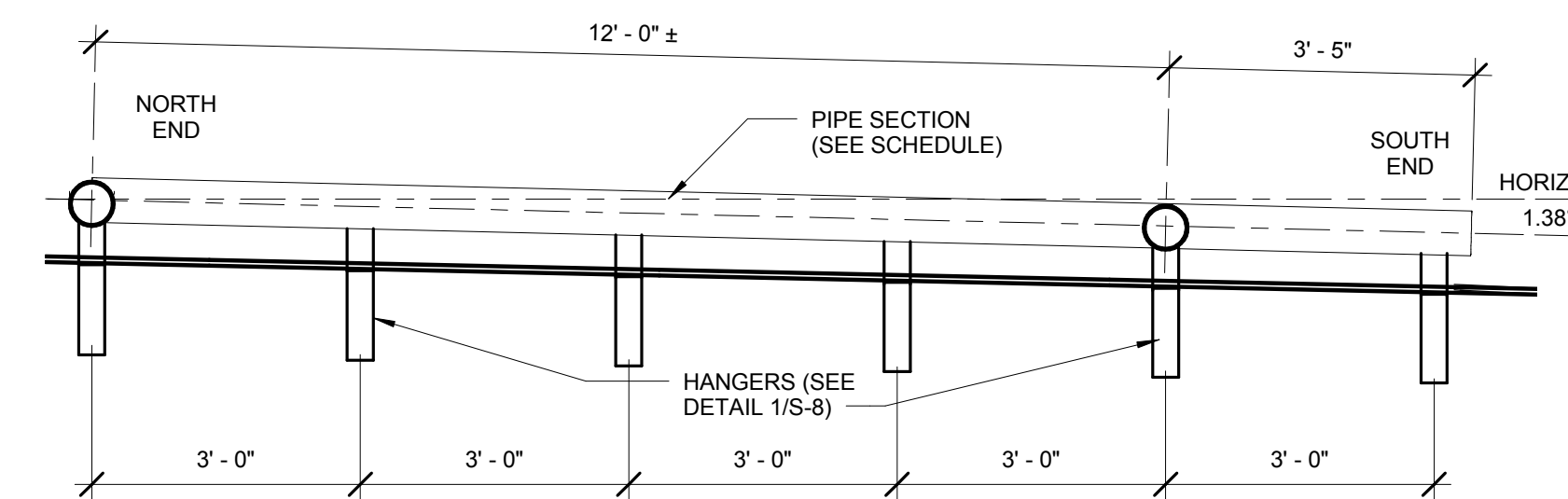
**WOOD JOIST SCHEDULE**

JOIST MARK	JOIST SIZE (THICKNESSxDEPTH)	JOIST LENGTH (FEET)*	JOIST SLOPE ANGLE	REFERENCE DETAIL	REMARKS
J-1	3 1/2"x11 7/8"	3'-10 1/2"	25.29°	1/S-9	LENGTH OF JOIST FROM HSS 12x2 TO FASCIA PLATE
J-2	3 1/2"x11 7/8"	5'-1 3/4"	24.0°	1/S-9	LENGTH OF JOIST FROM FACE OF COLUMN TO FASCIA PLATE
J-3	3 1/2"x11 7/8"	8'-0"	22.92°	1/S-9	LENGTH OF JOIST FROM HSS 12x2 TO FASCIA PLATE
J-4	3 1/2"x11 7/8"	7'-9"	21.70°	1/S-9	
J-5	3 1/2"x11 7/8"	12'-1"	20.46°	1/S-9	
J-6	3 1/2"x11 7/8"	17'-4 1/2"	19.20°	1/S-9	
J-7	3 1/2"x11 7/8"	19'-5 1/4"	17.92°	1/S-9	LENGTH OF JOIST FROM FACE OF COLUMN TO FASCIA PLATE
J-8	3 1/2"x11 7/8"	21'-0 1/2"	16.62°	1/S-9	
J-9	3 1/2"x11 7/8"	21'-0 1/4"	15.30°	1/S-9	
J-10	3 1/2"x11 7/8"	20'-0 3/4"	13.97°	1/S-9	
J-11	3 1/2"x11 7/8"	18'-7 1/2"	12.62°	1/S-9	
J-12	3 1/2"x11 7/8"	16'-10 1/2"	11.25°	1/S-9	
J-13	3 1/2"x11 7/8"	14'-5"	9.88°	1/S-9	LENGTH OF JOIST FROM FACE OF COLUMN TO FASCIA PLATE
J-14	3 1/2"x11 7/8"	13'-1 1/4"	8.49°	1/S-9	
J-15	3 1/2"x11 7/8"	11'-3 1/4"	7.09°	1/S-9	
J-16	3 1/2"x11 7/8"	9'-5 1/2"	5.68°	1/S-9	
J-17	3 1/2"x11 7/8"	7'-8 1/4"	4.27°	1/S-9	
J-18	3 1/2"x11 7/8"	6'-0 1/4"	2.85°	1/S-9	
J-19	3 1/2"x11 7/8"	4'-4 3/4"	1.42°	1/S-9	

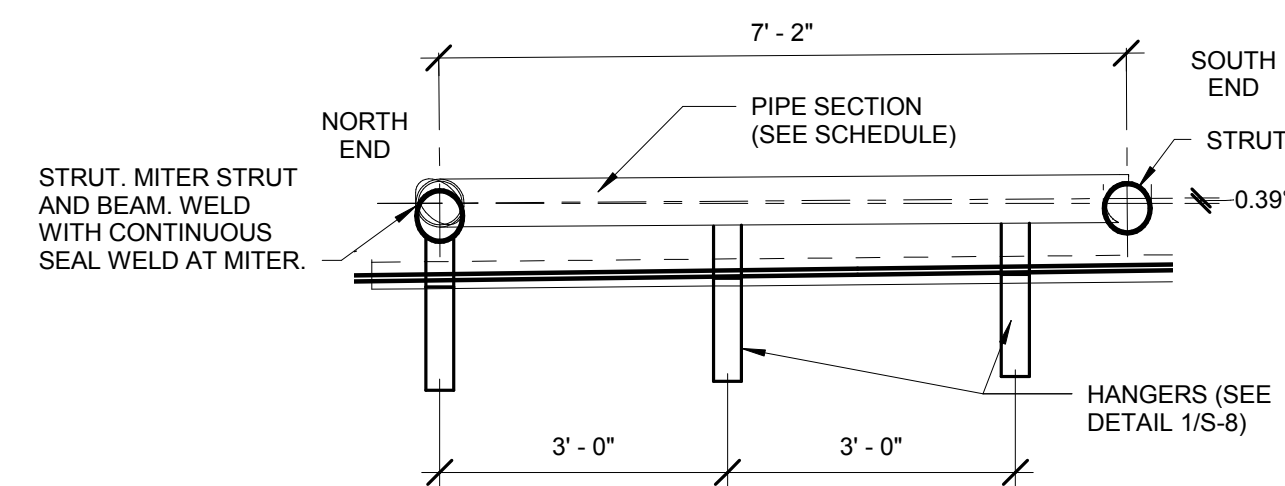
\*JOIST LENGTH IS DISTANCE FROM FACE OF LEDGER BEAM (OR FACE OF COLUMN) TO INSIDE OF FASCIA PLATE ALONG THE CENTERLINE OF THE JOIST ALONG THE TOP OF THE JOIST.



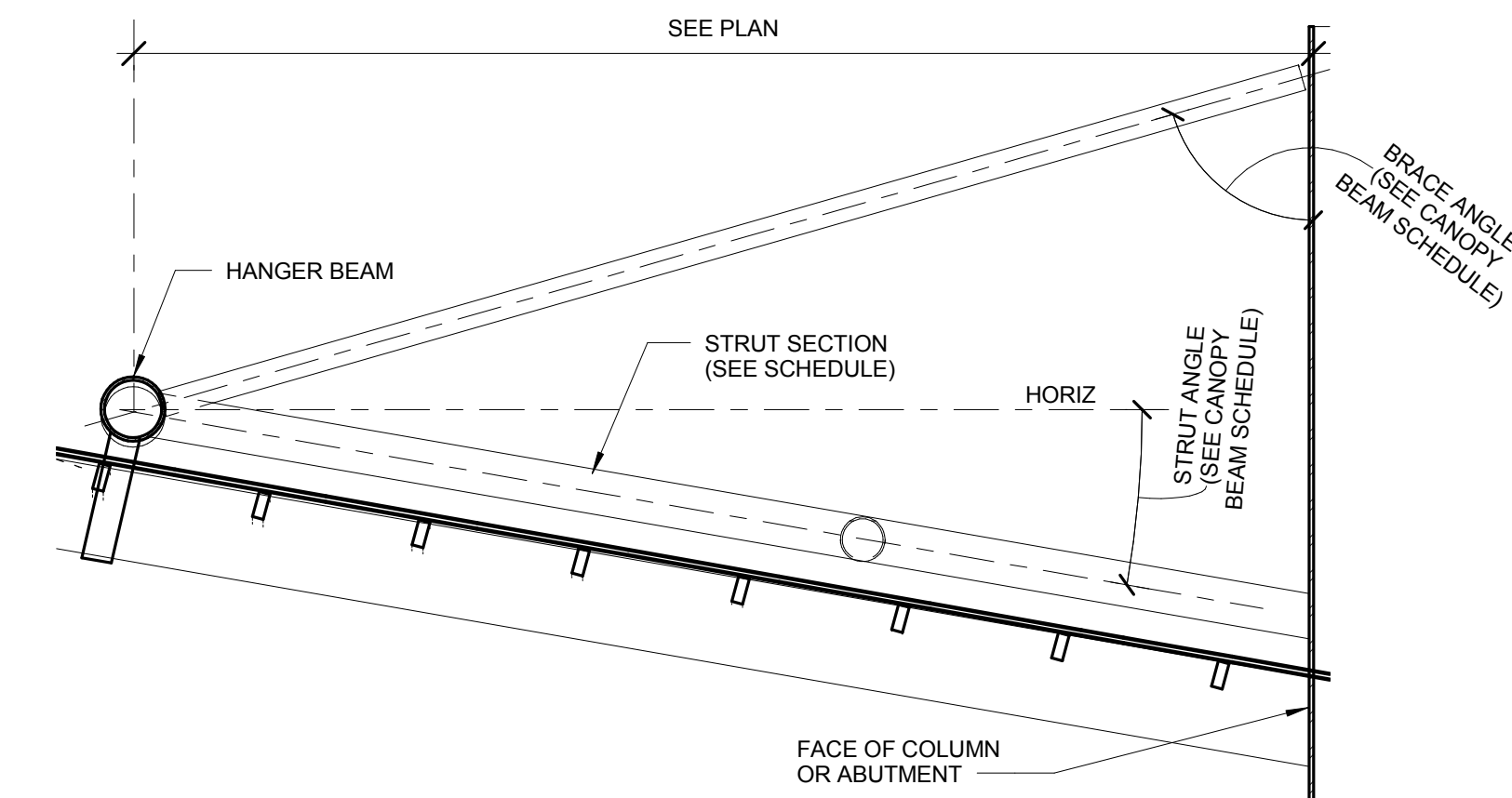
**B HANGER BEAM B-2 DETAIL**  
1/2" = 1'-0"



**C HANGER BEAM B-3 DETAIL**  
1/2" = 1'-0"



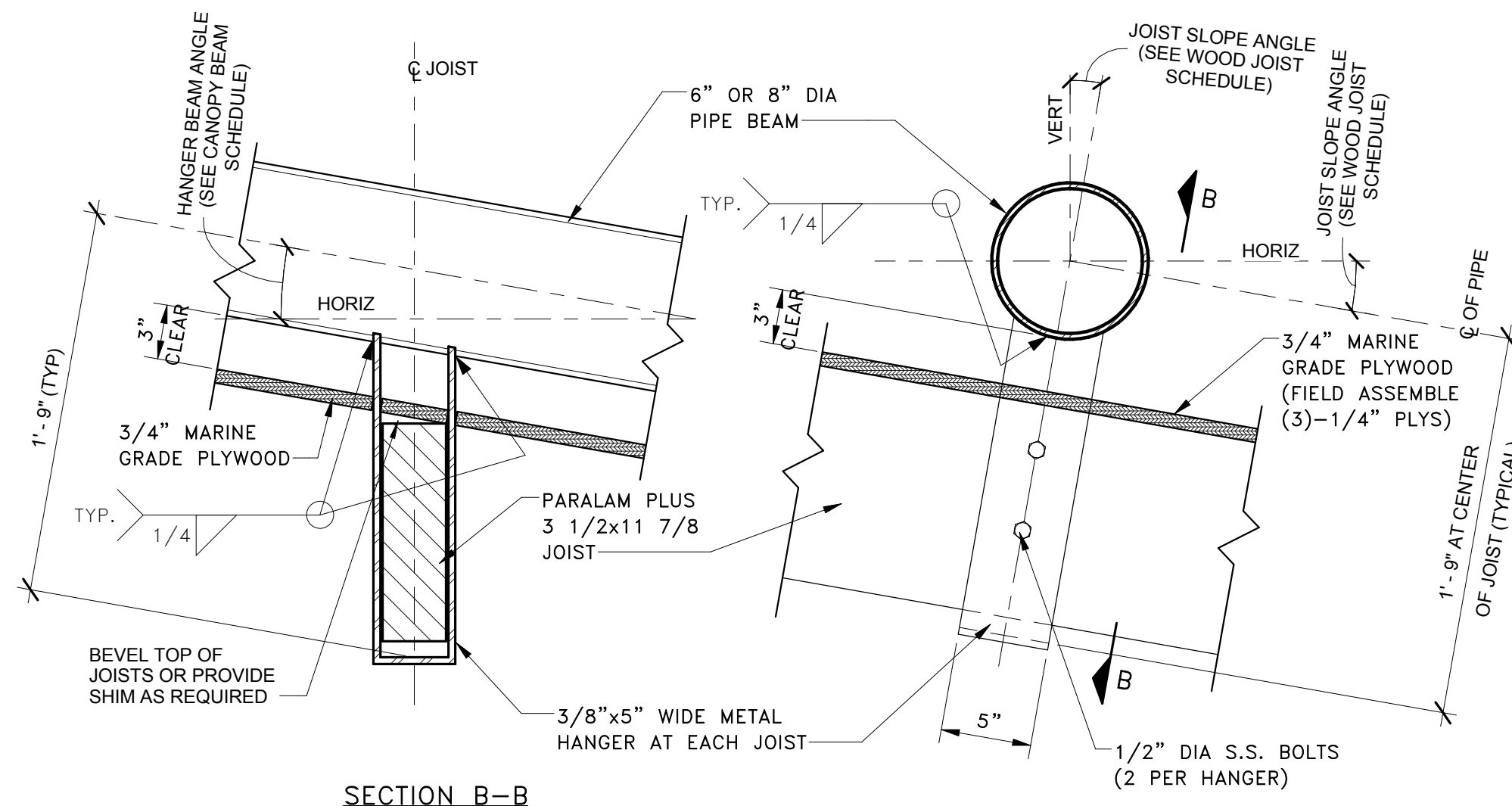
**D HANGER BEAM B-4 DETAIL**  
1/2" = 1'-0"



**E "STRUT" BEAM ELEVATION**  
1/2" = 1'-0"

**COLUMN SCHEDULE**

COLUMN MARK	COLUMN SIZE	BOTTOM OF BASE PLATE ELEVATION	TOP OF COLUMN ELEVATION	REFERENCE DETAIL/SECTION	STRUT ANGLE	STRUT ELEVATION	BRACE ANGLE	REMARKS
C-1	HSS 10x10x1/2	-1.208'	22'-9"	1/S-6	9.88°	16'-11 1/4"	74.01°	
C-2	HSS 10x10x1/2	-1.208'	23'-9"	1/S-6	17.92°	15'-8 1/2"	76.64°	
C-3	HSS 6x6x3/8	0.083'	17'-3"	4/S-9	24.12°	13'-11 3/4"	78.0°	



**1 JOIST TO SUPPORT STEEL "HANGER"**  
1 1/2" = 1'-0"

BIDS 11 JAN 2016

Project  
**CAMPBELL MEMORIAL TERRACE**

Drawing Title  
**SCHEDULES AND DETAILS**

Project Number: 2015061.00  
Drawn By: Designer Approved By: Checker  
Scale: As indicated  
Seal:

Signature: \_\_\_\_\_

Drawing No:





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DETROIT RIVERFRONT  
CONSERVANCY

600 RENAISSANCE CENTER, SUITE 1720  
DETROIT, MI 48243

Key Plan

BIDS 11 JAN 2016

Project

CAMPBELL MEMORIAL  
TERRACE

Drawing Title

DETAILS

Project Number: 2015061.00

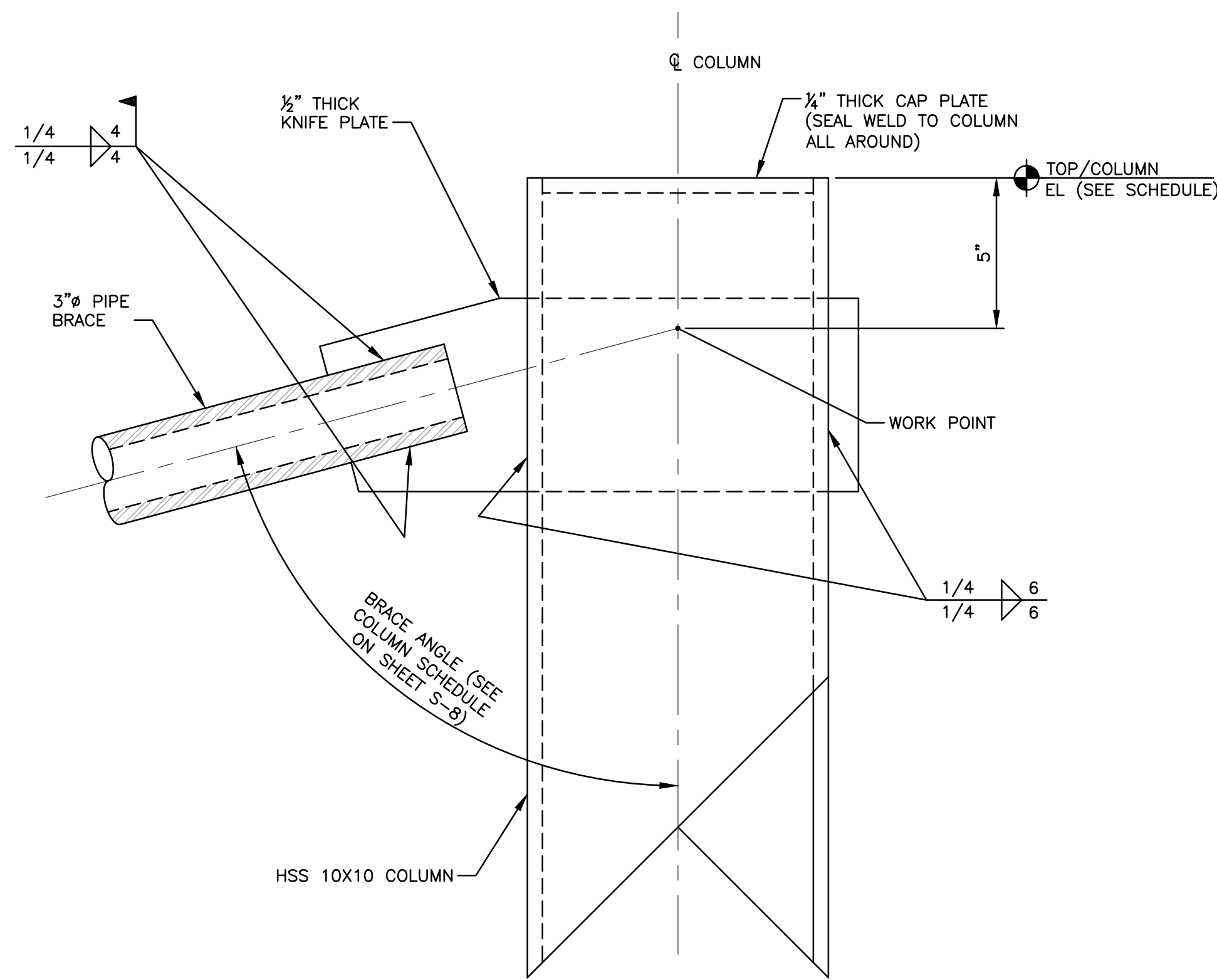
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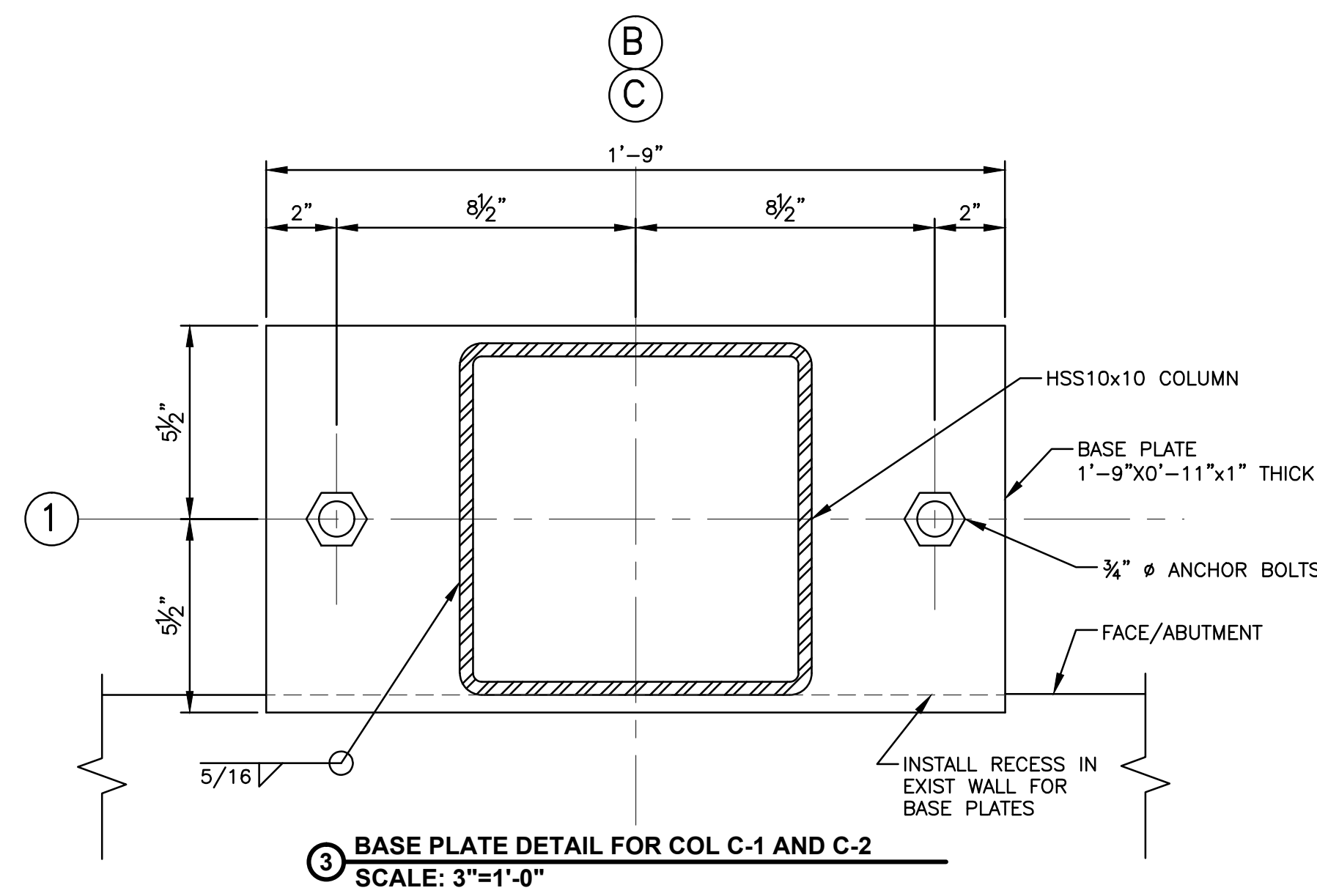
Seal:

Signature: \_\_\_\_\_

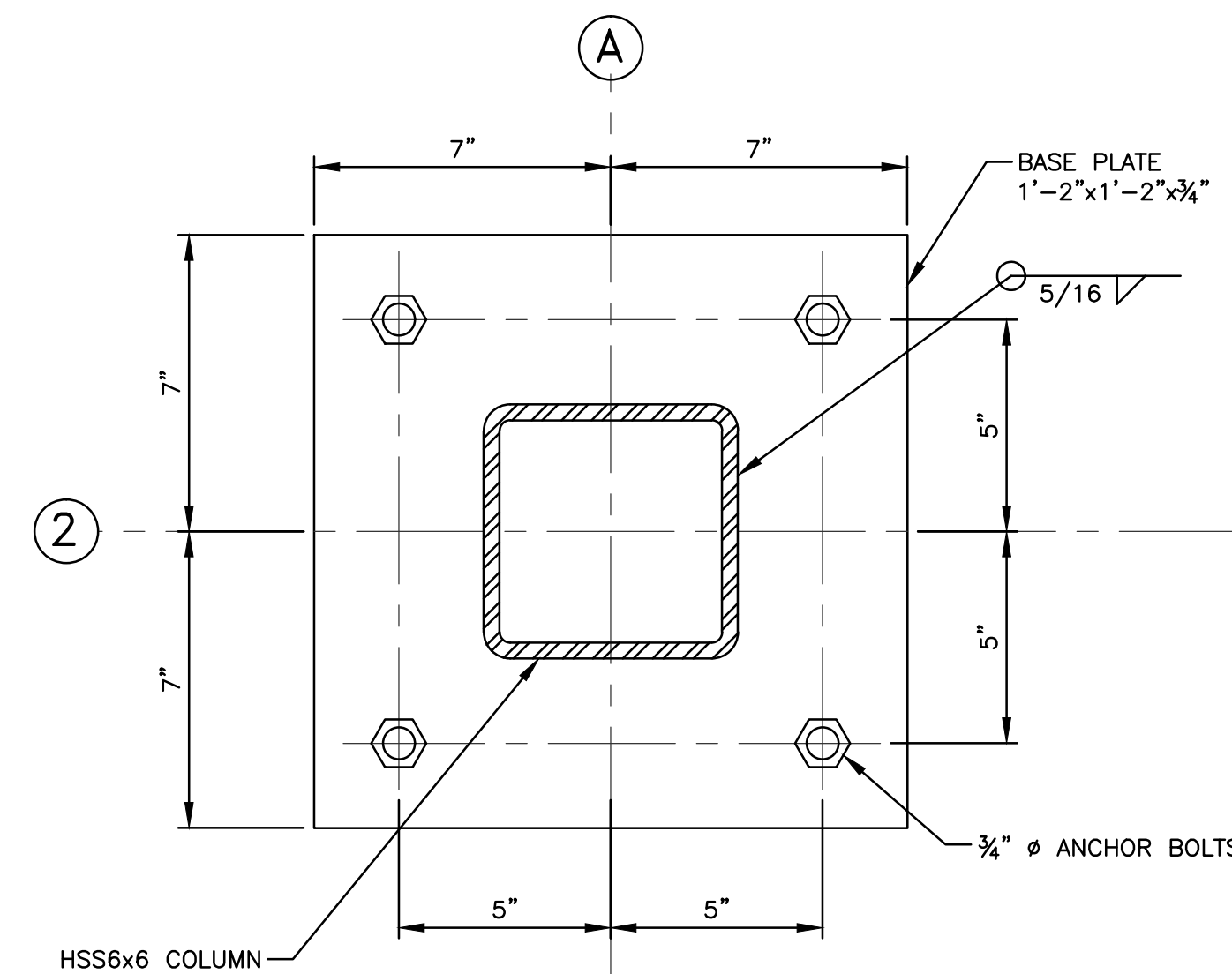
Drawing No:



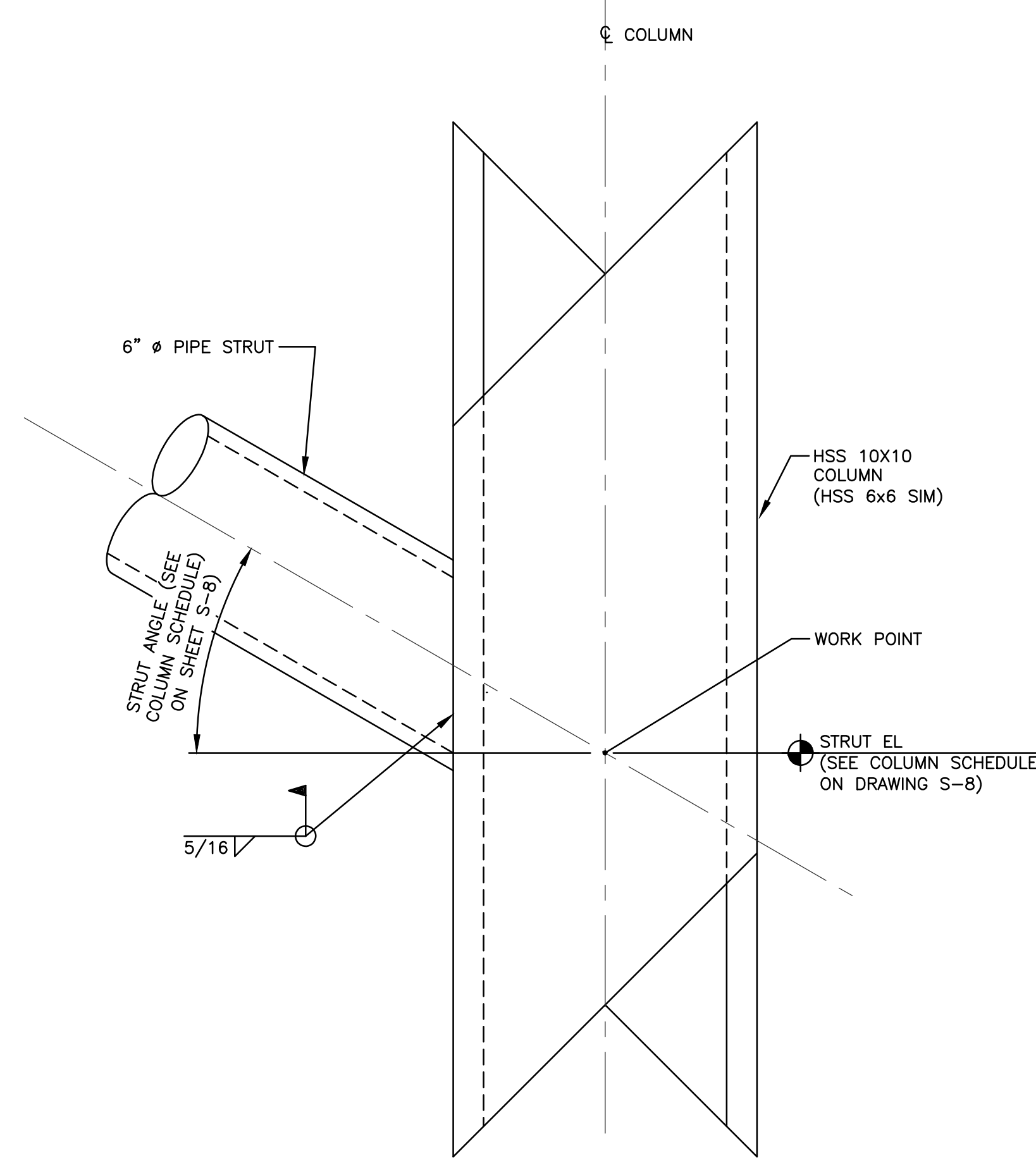
1 TYPICAL BRACE TO COLUMN DETAIL  
SCALE: 1 1/2"=1'-0"



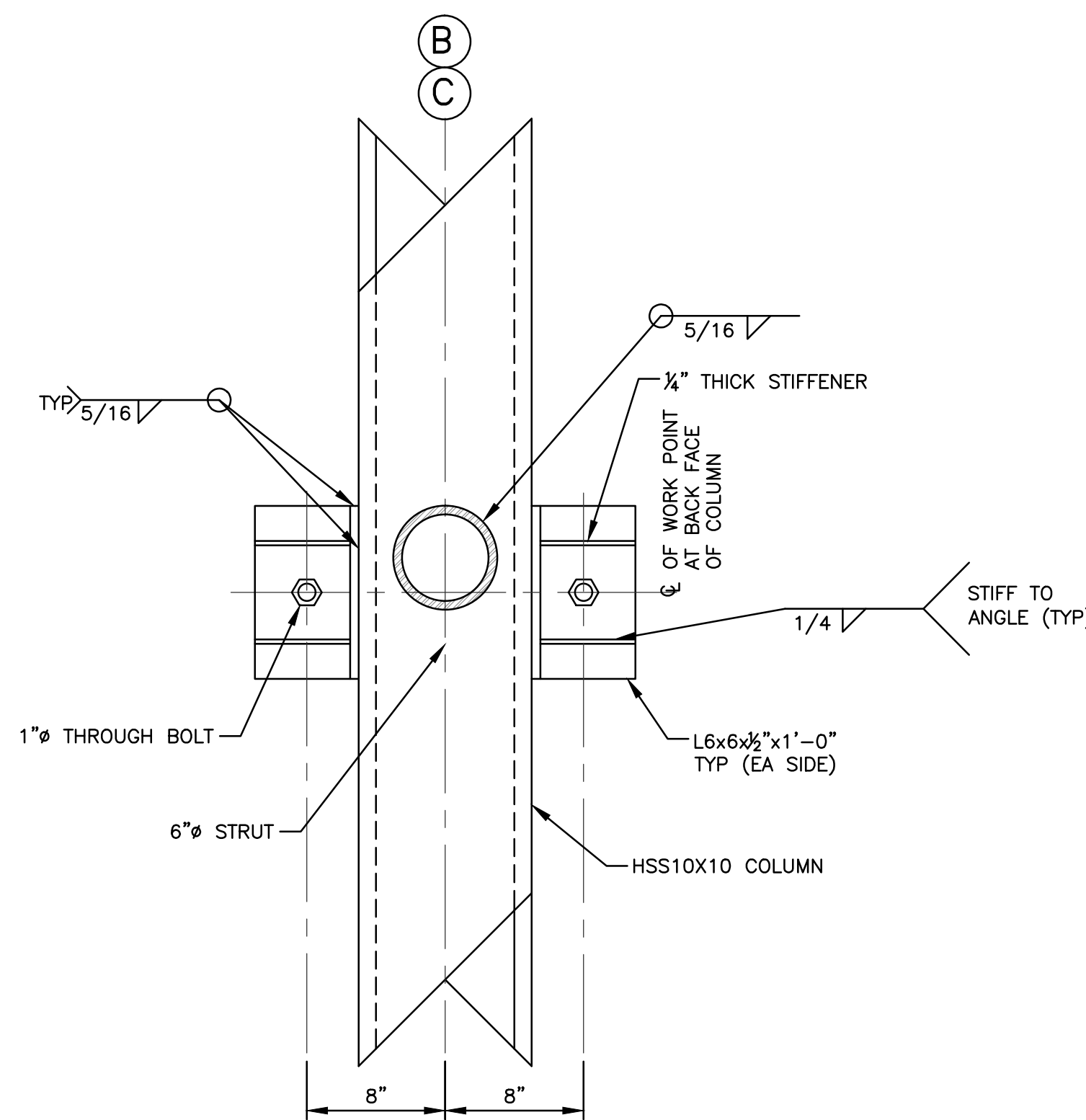
3 BASE PLATE DETAIL FOR COL C-1 AND C-2  
SCALE: 3"=1'-0"



4 BASE PLATE DETAIL FOR COLUMN C-3  
SCALE: 3"=1'-0"



2 TYPICAL STRUT TO COLUMN DETAIL  
SCALE: 3"=1'-0"



5 HSS10x10 COLUMN SUPPORT DETAIL  
SCALE: 1 1/2"=1'-0"



Revised Wall Alignment | Campbell Memorial Terrace