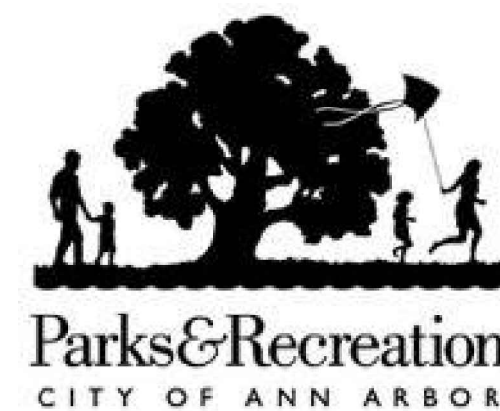


ANN ARBOR SKATEPARK



CITY OF ANN ARBOR, MICHIGAN
 VETERANS MEMORIAL PARK
 2150 JACKSON AVE., ANN ARBOR, MI

GENERAL NOTES

1. THE CURRENT ANN ARBOR DEPARTMENT OF PUBLIC WORKS IMPROVEMENT STANDARDS THAT HAVE BEEN REFERENCED IN THESE PLANS SHALL BE CONSIDERED AS PART OF THESE PLANS.
2. CONTRACTOR SHALL INSTALL ALL IMPROVEMENTS IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS. IN CASE OF DISCREPANCY BETWEEN THESE PLANS AND THE OWNER'S REQUIREMENTS, THE MOST STRINGENT REQUIREMENT WILL APPLY.
3. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL CONDITIONS PRIOR TO SUBMITTING A PROPOSAL OF COST FOR CONSTRUCTION.
4. CONTRACTOR SHALL READ THESE PLANS AND NOTES COMPLETELY AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY UPON DISCOVERY & PRIOR TO THE COMMENCEMENT OF ANY FURTHER WORK.
5. EXTRA WORK TO BE APPROVED IN WRITING BY THE OWNER PRIOR TO COMMENCEMENT OF WORK.
6. IT IS THE RESPONSIBILITY OF THE SUB-CONTRACTORS TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, UTILITIES, SEWERS, WATER LINES, ETC. COORDINATE WORK WITH OTHER SUB-CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES UNDER PAVING, ELECTRICAL CONNECTIONS, WATER HOOK-UPS, ETC.
7. ALL REQUIREMENTS OF THE UNIFORM BUILDING CODE SHALL APPLY TO THE WORK SPECIFIED HEREIN UNLESS OTHERWISE MODIFIED BY THESE DOCUMENTS.
8. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED TO COMPLETE THE WORK SPECIFIED.
9. CONTRACTOR TO NOTIFY UNDERGROUND SERVICE ALERT - DIAL 8-1-1 48 HOURS PRIOR TO ANY EXCAVATION.
10. CONTRACTOR SHALL NOTIFY OWNER 2 DAYS PRIOR TO STARTING CONSTRUCTION.
11. CONTRACTOR TO COORDINATE A PRE-CONSTRUCTION MEETING ON SITE 48 HOURS PRIOR TO START OF CONSTRUCTION. NOTIFY OWNER, OWNER'S REPRESENTATIVE, AND ALL SUB-CONTRACTORS.
12. CONTRACTOR TO SUBMIT REQUESTS FOR MEETINGS, OBSERVATIONS, AND APPROVALS BY THE LANDSCAPE ARCHITECT AT LEAST 48 HOURS PRIOR TO THE DATE AND TIME PROPOSED.
13. OBTAIN THE OWNER'S INSPECTOR'S APPROVAL OF WORK IN PROGRESS AT VARIOUS TIMES DURING CONSTRUCTION. THE FOLLOWING REVIEWS/MEETINGS ARE MANDATORY. PROVIDE 48 HOURS NOTICE FOR EACH REQUESTED VISIT.

- PRE-JOB CONFERENCE
- CONSTRUCTION STAKING
- SKATEPARK FINE GRADING
- SKATEPARK FORM WORK
- SKATEPARK SHOTCRETE POURS
- FINAL WALKTHROUGH (AT COMPLETION OF SKATEPARK INSTALLATION)

DIRECT ANY QUESTIONS REGARDING THESE PLANS TO :
 Charles H. Strawter Design Inc.
 566 West Lancaster Blvd., Ste. 20
 Lancaster, CA 93534
 office: (661)295-4631 | fax: (661)244-4911
 e-mail: charles@chstrawterdesign.com
 www.chstrawterdesign.com



Know what's below.
 Call before you dig.

SHEET INDEX

- LT-101_TITLE SHEET
- LS-101_SITE PLAN
- 1_GRADING PLAN (CIVIL)
- 2_RAIN GARDENS DETAILED (CIVIL)
- 3_MISC & UNDERGROUND DETENTION CHAMBERS DETAILS (CIVIL)
- 4_SOIL BORING LOGS (CIVIL)
- LG-101_SKATEPARK FINE GRADING PLAN
- LG-102_SKATEPARK FINE GRADING PLAN
- LL-101_LAYOUT PLAN
- LL-102_LAYOUT PLAN
- LL-201_LAYOUT DATA TABLES
- LC-101_CONSTRUCTION PLAN
- LC-102_CONSTRUCTION PLAN
- LC-201_CONSTRUCTION DETAILS
- LC-202_CONSTRUCTION DETAILS
- LC-301_CONSTRUCTION SECTIONS
- LC-302_CONSTRUCTION SECTIONS
- LC-303_CONSTRUCTION SECTIONS
- LC-304_CONSTRUCTION SECTIONS
- LC-305_CONSTRUCTION SECTIONS
- LC-306_CONSTRUCTION SECTIONS
- LC-307_CONSTRUCTION SECTIONS
- LC-308_CONSTRUCTION SECTIONS

SKATEPARK CONCEPTUAL ILLUSTRATION (ACTUAL LAYOUT MAY DIFFER)



VICINITY MAP



SKATE PARK DESIGNER
 WALLY HOLLYDAY DESIGN
 Wally Hollyday, Principal
 Phone: (949) 510-1515
 Fax: (949) 448-8208
 50 Dawn Lane, Aliso Viejo, CA 92656
 E-MAIL: wally@skatedesign.com

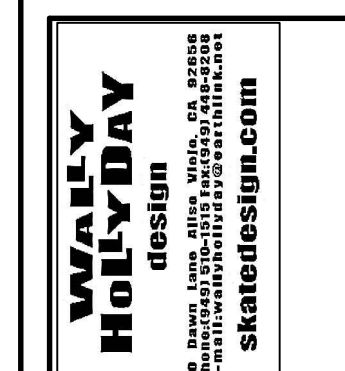
LANDSCAPE ARCHITECT
 CHARLES H. STRAWTER DESIGN INC.
 Charles H. Strawter, Principal-Landscape Architect
 Phone: (661)295-4631
 Fax: (661)244-4911
 566 West Lancaster Blvd., Ste. 20
 Lancaster, CA 93534
 E-MAIL: Charles@chstrawterdesign.com

CIVIL ENGINEERING
 Midwestern Consulting, LLC
 Scott W. Betzoldt, PE, Principal
 3815 Plaza Drive Ann Arbor, MI
 48108 734-995-0200

BENCH MARK

CITY OF ANN ARBOR BM# 0101
 (NGS CONTROL PT.# G331 (PID#NE1049)):
 TOP OF STAINLESS STEEL ROD IN BOX UNDER
 ALUMINUM CAP. @ THE SOUTHEAST CORNER OF
 MAPLE RD. AND DEXTER AVENUE.
 ELEV.=929.90 NAVD88

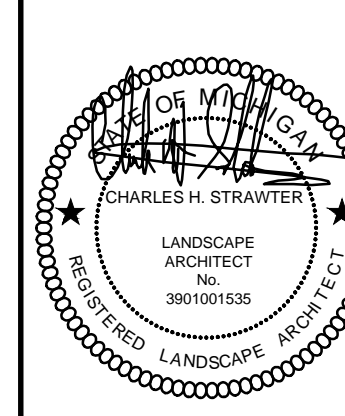
REVISIONS	BY
5/7/13	CHS



CHARLES H. STRAWTER DESIGN INC.
 566 West Lancaster Blvd., Ste. 20
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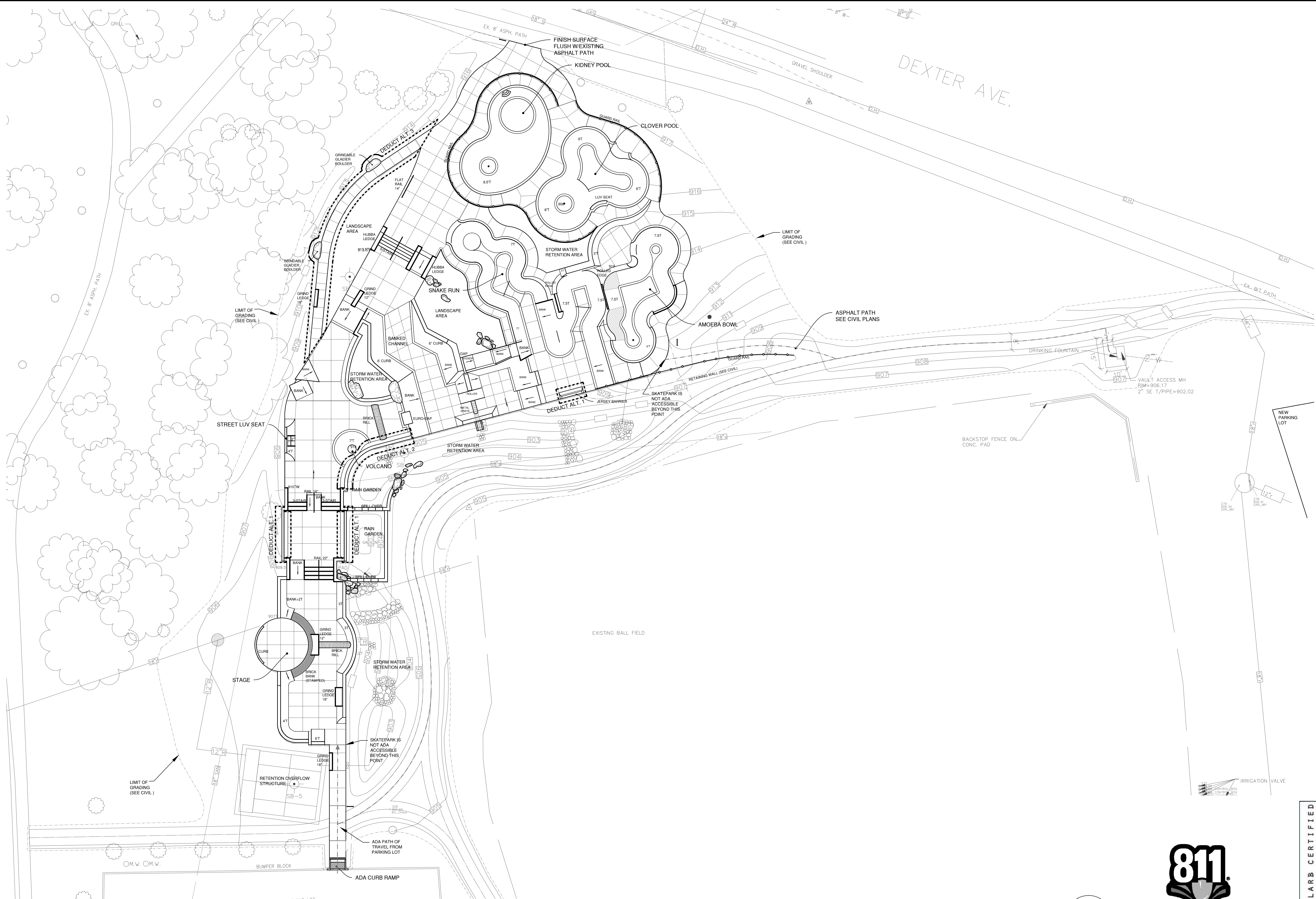
PROJECT: ANN ARBOR SKATEPARK
 CITY OF ANN ARBOR, MICHIGAN
 VETERANS MEMORIAL PARK
 2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: TITLE SHEET
 SUBMITTAL: BID SET



JOB NO. CSD1150-12
DATE: 04-16-2013
SCALE: -
DRAWN: CHS
SHEET: LT-101
01 OF 23 SHEETS

Owner: C:\Users\Public\Documents\CHS Design, Inc.\projects\1150-12_Ann Arbor Skatepark\CDV1150-LS-SITE PLAN.dwg Wed, May 8 2013 12:47:04 pm



REVISIONS	BY
5/7/13	CHS



CHARLES H. STRAWTER, D. BEIGN, INC.
 LANDSCAPE ARCHITECT
 150 W. LANSING BLVD., 3RD FL.
 LANSING, MI 48202
 PH: 313.963.1100
 FAX: 313.963.1101
 www.charlesstrawter.com

PROJECT: ANN ARBOR SKATEPARK
 CITY OF ANN ARBOR, MICHIGAN
 VETERANS MEMORIAL PARK
 2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: SITE PLAN
 SUBMITTAL: BID SET



CLARB CERTIFIED
 LANDSCAPE ARCHITECT

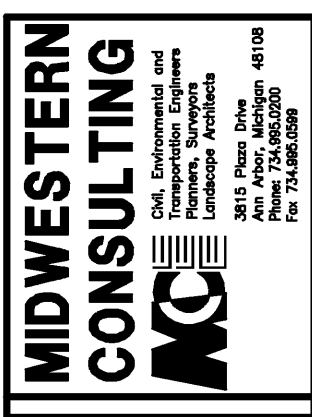
IRRIGATION VALVE

SCALE: 1"=20'-0"
 0 10' 20' 40' 60' 80' FEET

811
 Know what's below.
 Call before you dig.

JOB NO. CSD1150-12
 DATE: 04-16-2013
 SCALE: PER PLAN
 DRAWN: CHS
 SHEET:
 LS-101
 02 OF 23 SHEETS

REVISIONS	BY
5/07/13	JA

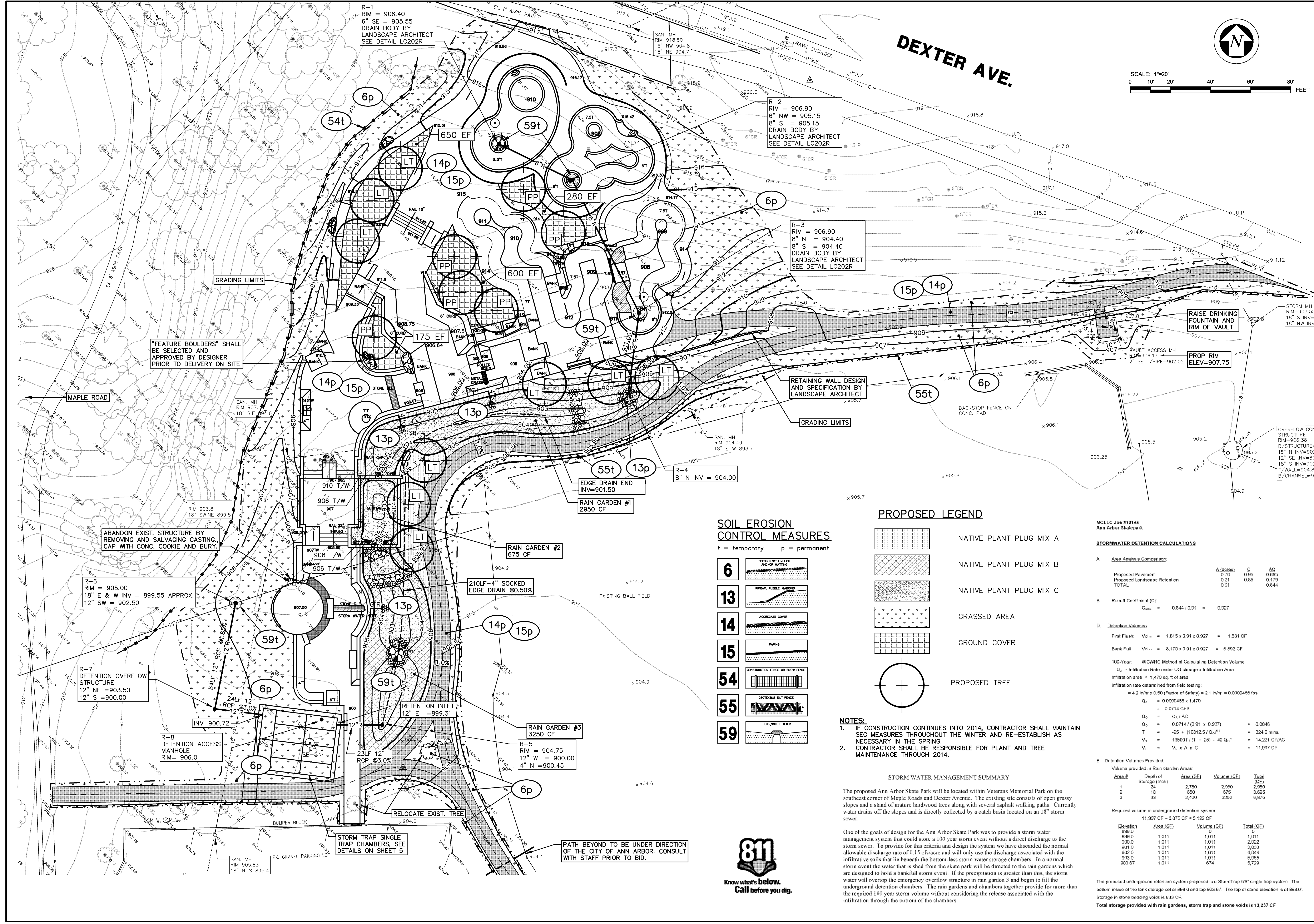


CHARLES H. STANLEY, P.E., INC.
 360 W. HANCOCK BLVD., SUITE 200
 ANN ARBOR, MI 48106
 TEL: 734.769.1100
 FAX: 734.769.1101
 E-MAIL: CHS@CHSINC.COM
 CHS is a Registered Professional Engineer, P.E. No. 21428
 CHS is a Registered Professional Landscaper, P.L. No. 12428

PROJECT: ANN ARBOR SKATEPARK
 CITY OF ANN ARBOR, MICHIGAN
 2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: SITE GRADING PLAN
 SUBMITTAL: BID SET

JOB NO. CSD1100-12
 DATE: 03-29-2013
 SCALE: 1" = 30'
 DRAWN:
 SHEET: 3
 3 OF 23 SHEETS



SOIL EROSION CONTROL MEASURES

- t = temporary p = permanent
- 6 SEEDING WITH MULCH AND/OR MATTING
 - 13 RIPRAP, RUBBLE, GABIONS
 - 14 AGGREGATE COVER
 - 15 PAVING
 - 54 CONSTRUCTION FENCE OR SNOW FENCE
 - 55 GEOTEXTILE SILT FENCE
 - 59 GABION FILTER

PROPOSED LEGEND

- NATIVE PLANT PLUG MIX A
- NATIVE PLANT PLUG MIX B
- NATIVE PLANT PLUG MIX C
- GRASSED AREA
- GROUND COVER
- PROPOSED TREE

- NOTES:**
- IF CONSTRUCTION CONTINUES INTO 2014, CONTRACTOR SHALL MAINTAIN SEC MEASURES THROUGHOUT THE WINTER AND RE-ESTABLISH AS NECESSARY IN THE SPRING.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PLANT AND TREE MAINTENANCE THROUGH 2014.

STORM WATER MANAGEMENT SUMMARY

The proposed Ann Arbor Skate Park will be located within Veterans Memorial Park on the southeast corner of Maple Roads and Dexter Avenue. The existing site consists of open grassy slopes and a stand of mature hardwood trees along with several asphalt walking paths. Currently water drains off the slopes and is directly collected by a catch basin located on an 18" storm sewer.

One of the goals of design for the Ann Arbor Skate Park was to provide a storm water management system that could store a 100 year storm event without a direct discharge to the storm sewer. To provide for this criteria and design the system we have discarded the normal allowable discharge rate of 0.15 cfs/acre and will only use the discharge associated with the infiltrative soils that lie beneath the bottom-less storm water storage chambers. In a normal storm event the water that is shed from the skate park will be directed to the rain gardens which are designed to hold a bankfull storm event. If the precipitation is greater than this, the storm water will overflow the emergency overflow structure in rain garden 3 and begin to fill the underground detention chambers. The rain gardens and chambers together provide for more than the required 100 year storm volume without considering the release associated with the infiltration through the bottom of the chambers.

MCLLC Job #12148 Ann Arbor Skatepark

STORMWATER DETENTION CALCULATIONS

A. Area Analysis Comparison:

	A (acres)	C	AC
Proposed Pavement	0.10	0.95	0.095
Proposed Landscape Retention	0.21	0.85	0.179
TOTAL	0.31		0.274

B. Runoff Coefficient (C):
 $C_{avg} = 0.844 / 0.91 = 0.927$

D. Detention Volumes:

First Flush: $V_{ff} = 1.815 \times 0.91 \times 0.927 = 1.531$ CF

Bank Full: $V_{bf} = 8.170 \times 0.91 \times 0.927 = 6.892$ CF

100-Year: WQVRC Method of Calculating Detention Volume
 $Q_p = \text{Infiltration Rate under UG storage} \times \text{Infiltration Area}$
 Infiltration area = 1,470 sq. ft. of area
 Infiltration rate determined from field testing:
 $= 4.2 \text{ in/hr} \times 0.50 \text{ (Factor of Safety)} = 2.1 \text{ in/hr} = 0.0000486 \text{ fps}$
 $Q_p = 0.0000486 \times 1,470 = 0.0714 \text{ CFS}$
 $Q_p = 0.0714 / (0.91 \times 0.927) = 0.0846$
 $T = -25 + (10312.5 / Q_p)^{0.5} = 324.0 \text{ mins}$
 $V_d = 16500T / (T + 25) - 40 Q_p T = 14,221 \text{ CF/AC}$
 $V_d = V_d \times A \times C = 11,997 \text{ CF}$

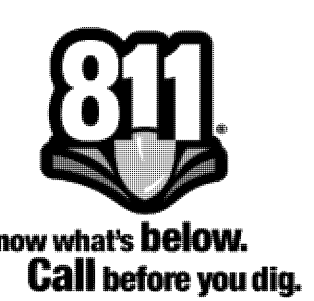
E. Detention Volumes Provided:

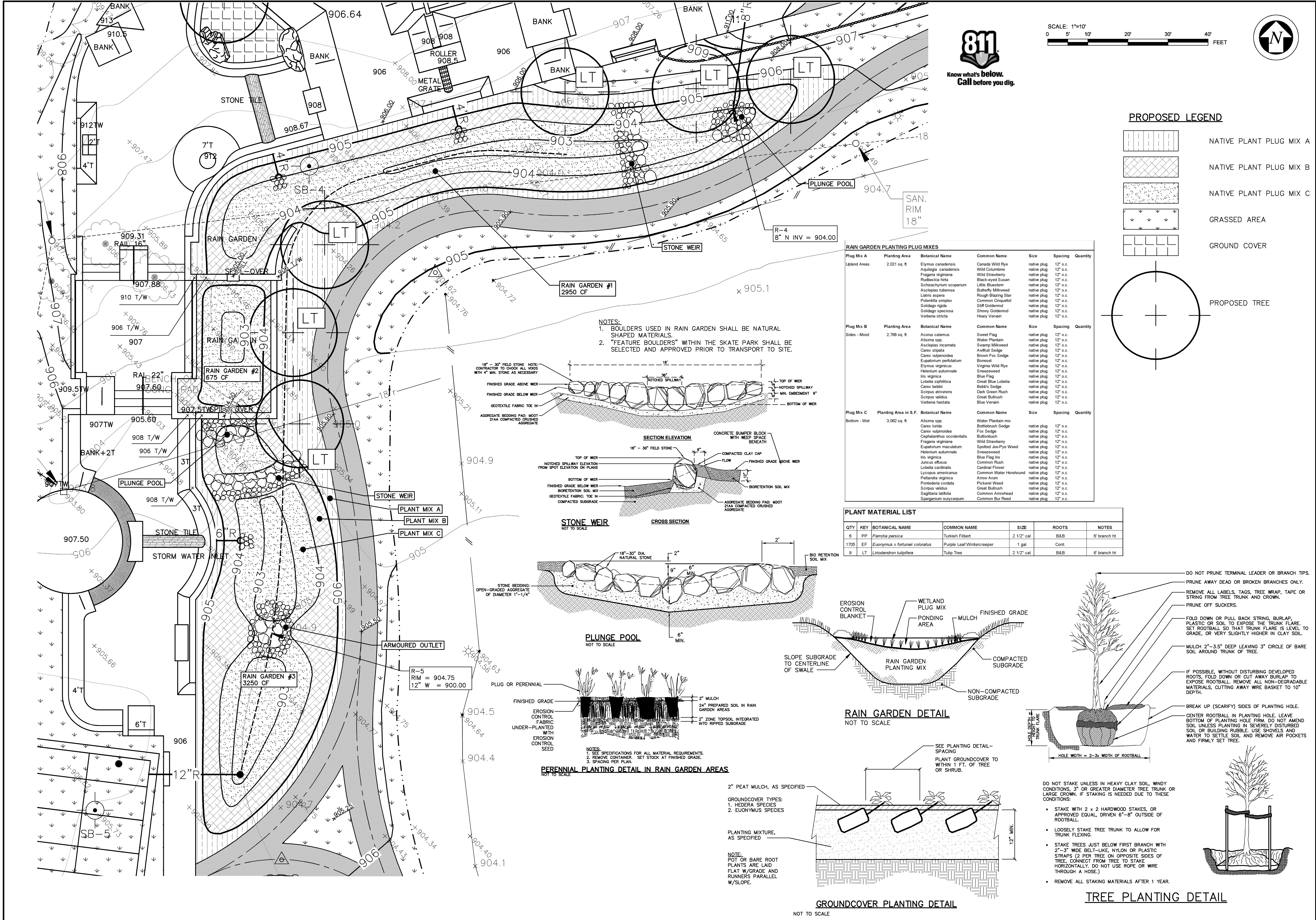
Area #	Depth of Storage (Inch)	Area (SF)	Volume (CF)	Total (CF)
1	24	2,780	2,950	2,950
2	18	650	675	3,625
3	33	2,400	3,250	6,875

Required volume in underground detention system:
 $11,997 \text{ CF} - 6,875 \text{ CF} = 5,122 \text{ CF}$

Elevation	Area (SF)	Volume (CF)	Total (CF)
896.0	0	0	0
895.0	1,011	1,011	1,011
900.0	1,011	1,011	2,022
901.0	1,011	1,011	3,033
902.0	1,011	1,011	4,044
903.0	1,011	1,011	5,055
903.67	1,011	674	5,729

The proposed underground retention system proposed is a StormTrap 5'8" single trap system. The bottom inside of the tank storage set at 896.0 and top 903.67. The top of stone elevation is at 898.0. Storage in stone bedding voids is 633 CF.
Total storage provided with rain gardens, storm trap and stone voids is 13,237 CF





REVISIONS	BY
5/07/13	JA

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www.midwesternconsulting.com

PROJECT: ANN ARBOR SKATEPARK
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: RAIN GARDEN GRADING PLAN AND MISCELLANEOUS DETAILS

SUBMITTAL: BID SET

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOTS	NOTES
6	PP	<i>Parrotia persica</i>	Turkish Filbert	2 1/2" cal	B&B	6' branch ht
1705	EF	<i>Euonymus x fortunei coloratus</i>	Purple Leaf Wintercreeper	1 gal	Cont.	
9	LT	<i>Liliodendron tulipifera</i>	Tulip Tree	2 1/2" cal	B&B	6' branch ht

JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: 1" = 10'
DRAWN:
SHEET: 4
4 OF 23 SHEETS

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5/07/13	JA

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PROJECT: **ANN ARBOR SKATEPARK**
 CITY OF ANN ARBOR, MICHIGAN
 VETERANS MEMORIAL PARK
 2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: **MISCELLANEOUS AND UNDERGROUND DETENTION CHAMBERS DETAILS**
 SUBMITTAL: BID SET

STORMTRAP INSTALLATION SPECIFICATION

- STORMTRAP MODULES SHALL BE MANUFACTURED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/OUTLET PIPE OPENINGS.
- STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891-09, STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES. THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS SHALL APPLY:
 - SPECIFICATIONS ON THE ENGINEER'S DRAWINGS SHALL TAKE PRECEDENCE.
 - STORMTRAP MODULES SHALL BE PLACED ON A 3" BED OF 3/4" CRUSHED, WELL COMPACTED AND SEATED, ANGULAR STONE, WITH NO FINES OVER A 15" BED OF 3" CRUSHED, WELL COMPACTED AND SEATED, ANGULAR STONE. THE STONE SHALL BE INSTALLED A MINIMUM 2" BEYOND THE LIMITS OF THE STORMTRAP MODULES' PERIMETER.
 - USE CRUSHED ANGULAR STONE AND COMPACT THE STONE USING A VIBRATING ROLLER WITH ITS FULL DYNAMIC FORCE APPLIED TO ACHIEVE A FLAT SURFACE.
 - DISK DRY AND COMPACT THE TOP 3" OF THE SUBGRADE SOILS TO 90% OF THE STANDARD DRY DENSITY AND 10% OPTIMUM MOISTURE CONTENT.
 - AGGREGATE SHALL BE GRADED TO WITHIN +/- 1/4" OF THE GRADE SHOWN ON THE PLANS.
 - MINIMUM 4000 PSF SOIL BEARING CAPACITY. SOIL STRENGTHS TO BE VERIFIED IN FIELD BY OTHERS.
 - THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 3/4". IF THE SPACE EXCEEDS 3/4", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.
 - ALL EXTERIOR JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN TONER ON A WOVEN HIGHLY PUNCTURE RESISTANT POLYMER WRAP CONFORMING TO ASTM C891-09 AND SHALL BE 6" WIDE WITH INTEGRATED PRIMER SEALANT AS APPROVED BY STORMTRAP. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
 - USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE THE JOINT WRAP IS TO BE APPLIED.
 - A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (ADHESIVE SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.

- THE BACKFILL PLACED AROUND THE STORMTRAP UNITS MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE BE MORE THAN 2" DEEPER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY OR OTHERWISE SPECIFIED BY ENGINEER. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE, AND ALL SCOPES BORING OR WITHIN THE AREA TO BE BACKFILLED MUST BE STEPPED OR SERRATED TO PREVENT WEDGING ACTION. CARE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MATERIAL TO CONSIST OF 1/4" TO 3/4" WASHED COARSE AGGREGATE STONE OR APPROVED EQUAL.
- DISTRIBUTE THE FILL OVER THE SYSTEM WITH A TRACKED CONSTRUCTION VEHICLE, DO NOT EXCEED THE MAXIMUM ALLOWABLE GROUND PRESSURE SHOWN IN TABLE 1.

TABLE 1

FILL DEPTH	TRACK WIDTH	MAX GROUND PRESSURE
12"	12"	1690 psf
18"	18"	1219 psf
24"	24"	1111 psf
30"	30"	1020 psf
36"	36"	924 psf

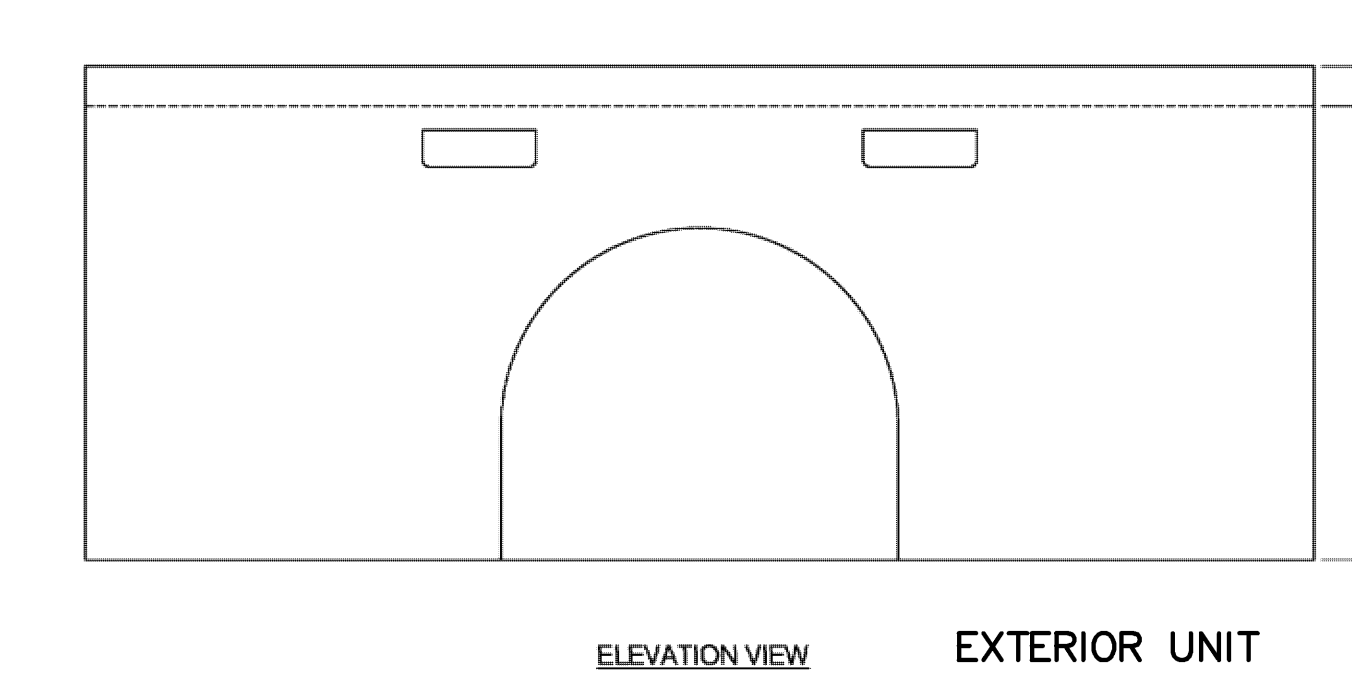
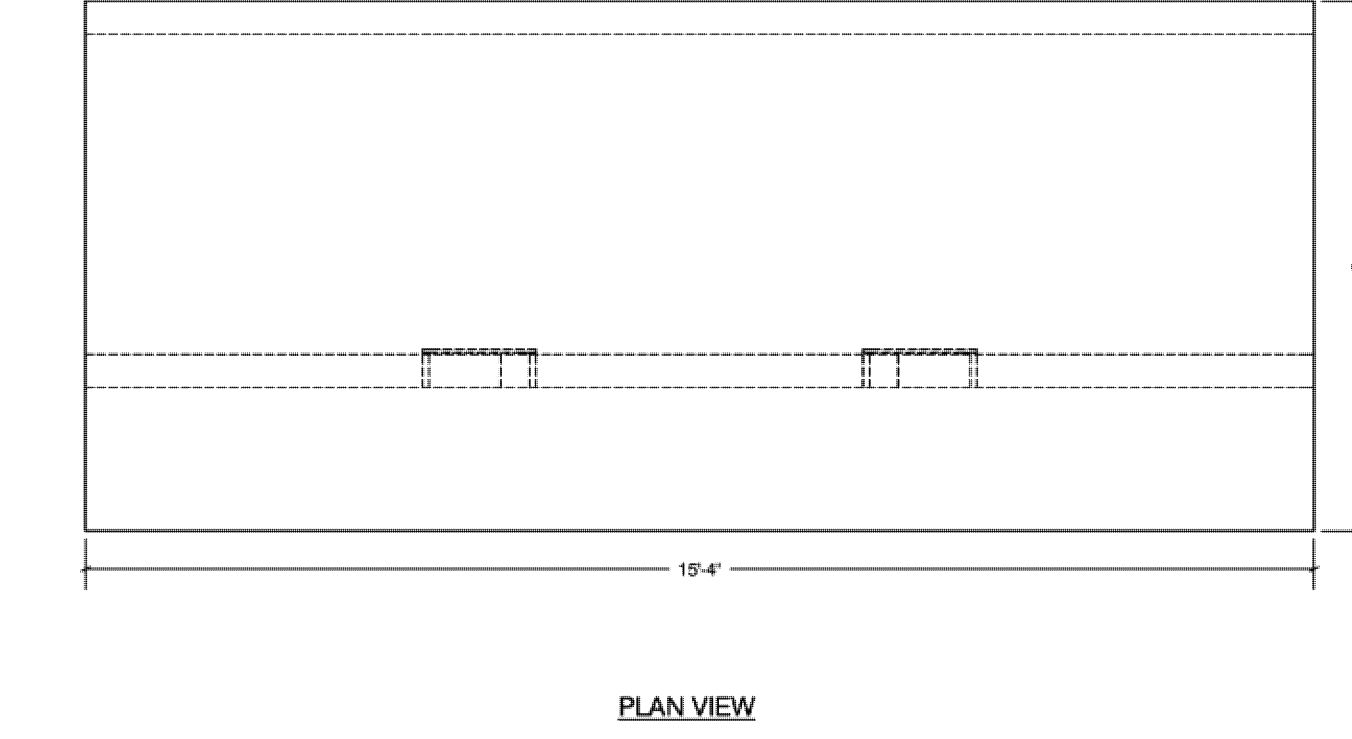
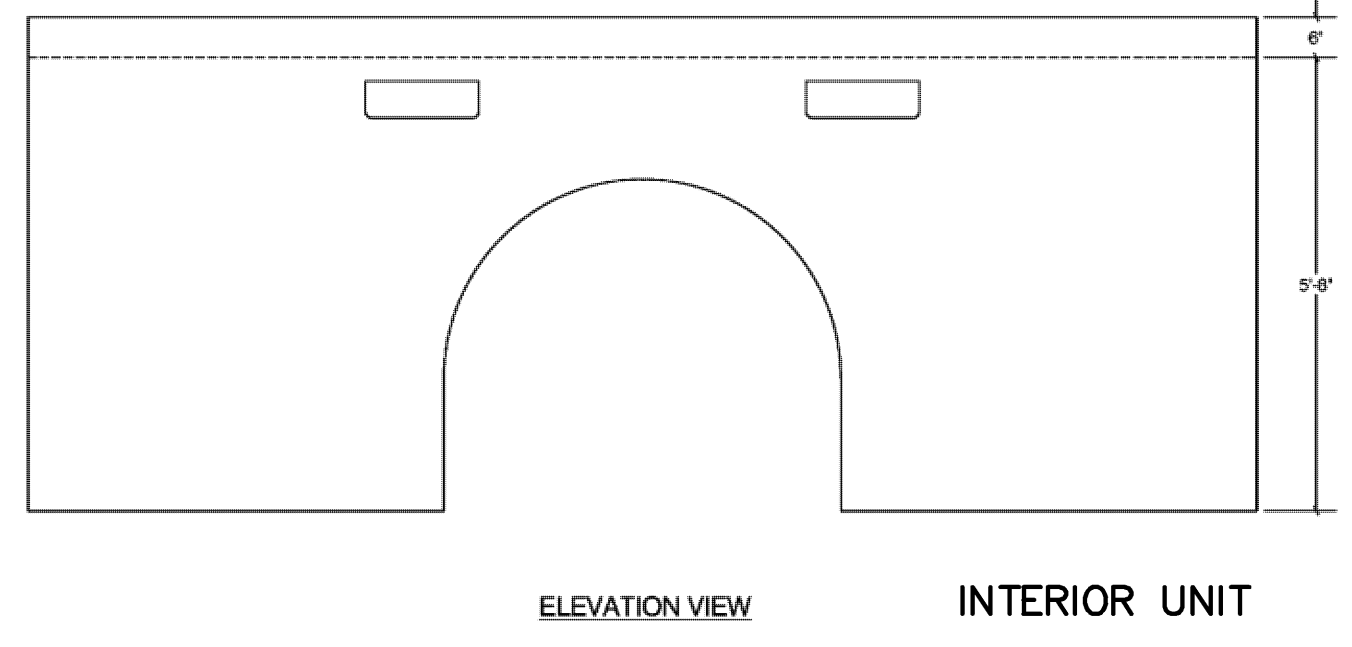
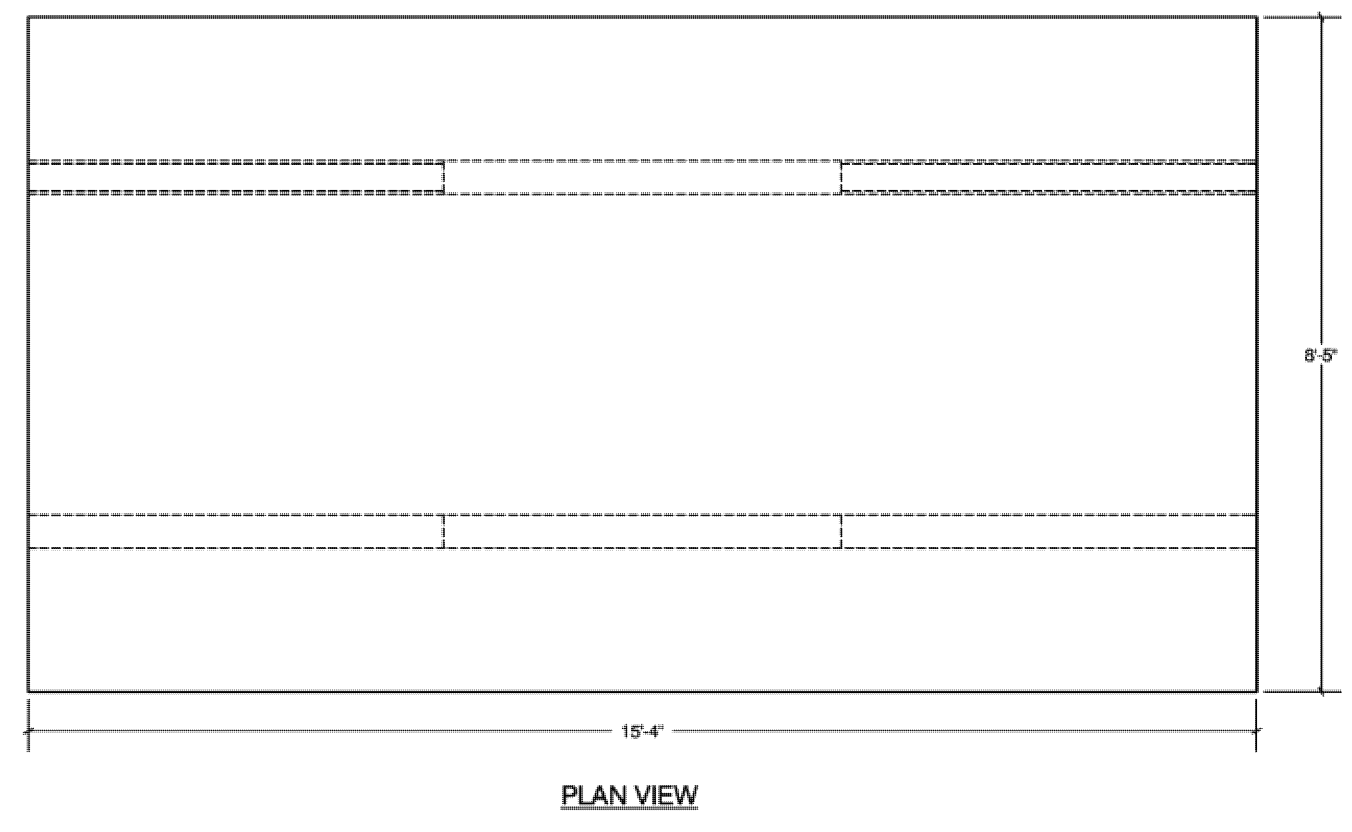
MAXIMUM ALLOWABLE GROUND PRESSURE IS THE VEHICLE OPERATING WEIGHT DIVIDED BY THE TOTAL VEHICLE TRACK-GROUND CONTACT AREA, FOR BOTH TRACKS.
 USE A WALK BEHIND OR VIBRATORY ROLLER, NOT TO EXCEED A MAXIMUM GROSS VEHICLE WEIGHT OF 20,000# AND A MAXIMUM DYNAMIC FORCE OF 20,000#, WITH A MINIMUM OF 12" OF COMPACTED FILL OVER THE SYSTEM.
 FULL DUMP TRUCKS MUST NOT BE DRIVEN ON DUMP STONE OVER THE SYSTEM RAISING THE BODY TO DUMP STONE SIGNIFICANTLY INCREASES THE REAR WHEEL LOADS.

BILL OF MATERIALS

QTY.	UNIT TYPE	DESCRIPTION
0	I	5'-8" SINGLETRAP
4	II	5'-8" SINGLETRAP
0	III	5'-8" SINGLETRAP
0	IV	5'-8" SINGLETRAP
0	VS	5'-8" SINGLETRAP
1	SPV	5'-8" SINGLETRAP
6	PANEL	6" THICK WALL PANELS
2	JOINT WRAP	150' PER ROLL

STORMTRAP SPECIFICATION

- TOTAL COVER: MIN. 1.5X MAX. 3.5X CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
- CONCRETE CHAMBER DESIGNED FOR AASHTO HS-20 HIGHWAY LOADING. MIN. SOIL PRESSURE 4000 PSF.
- ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUND WATER TABLE AND SOIL BEARING CAPACITY ARE TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.
- FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE AT ELEVATION 896.50. IF WATER TABLE IS DIFFERENT FROM ASSUMED, CONTACT STORMTRAP.
- FOR STRUCTURAL CALCULATIONS THE SOIL DENSITY IS ASSUMED TO BE 120 PCF.

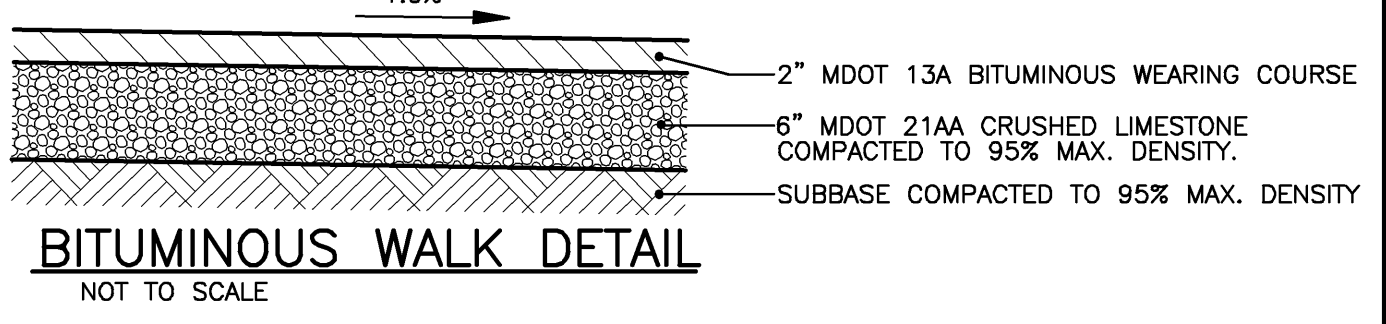
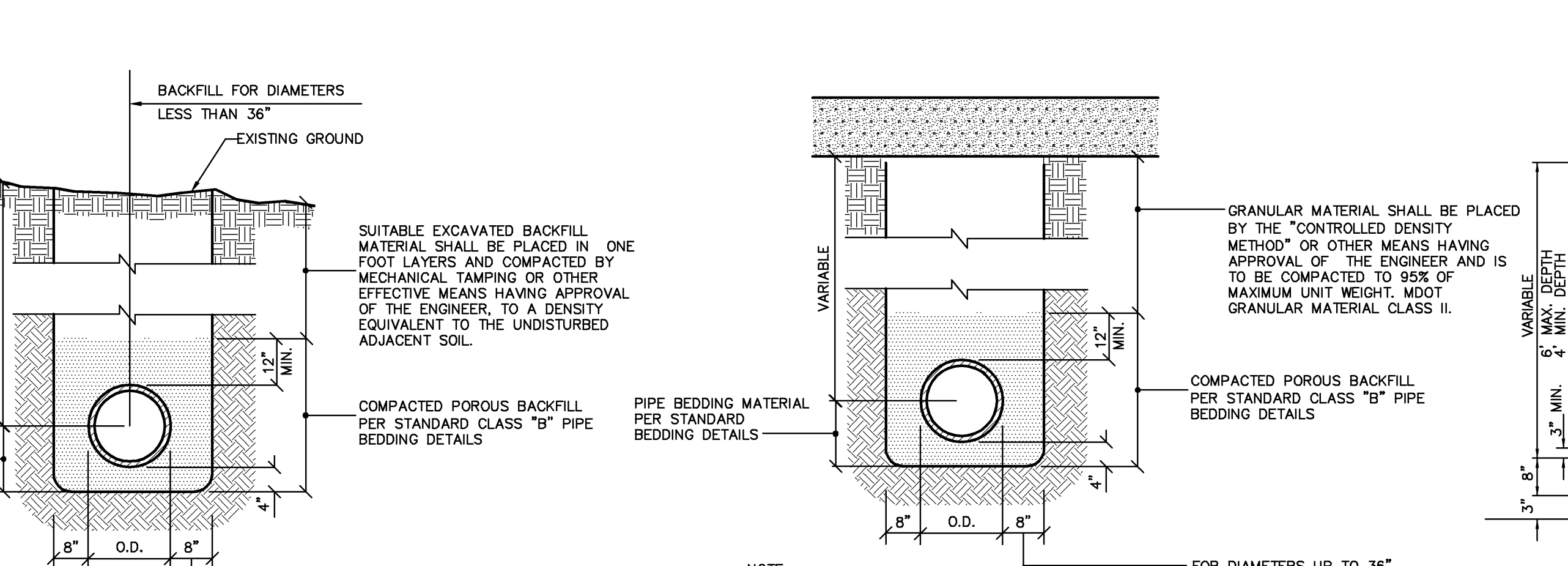
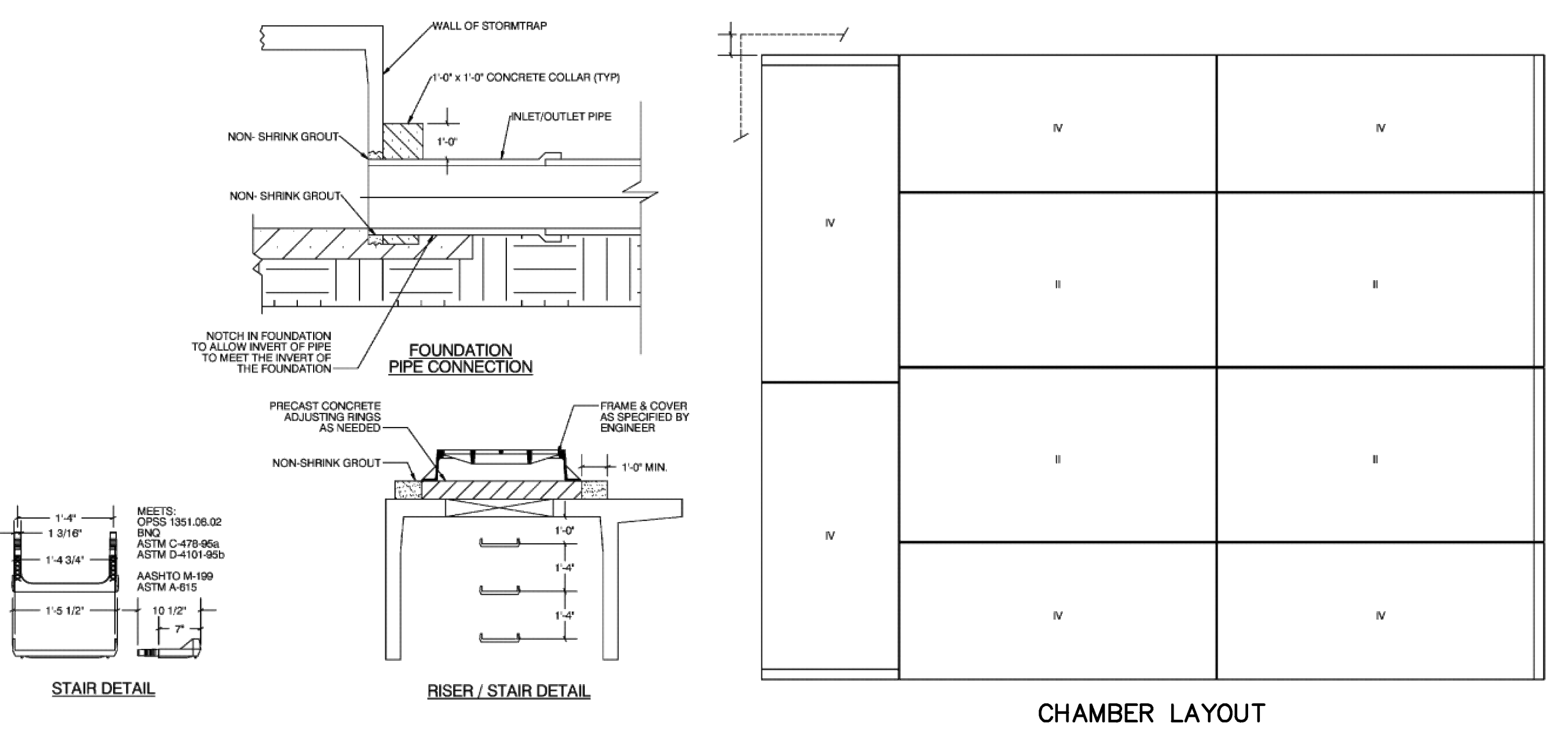
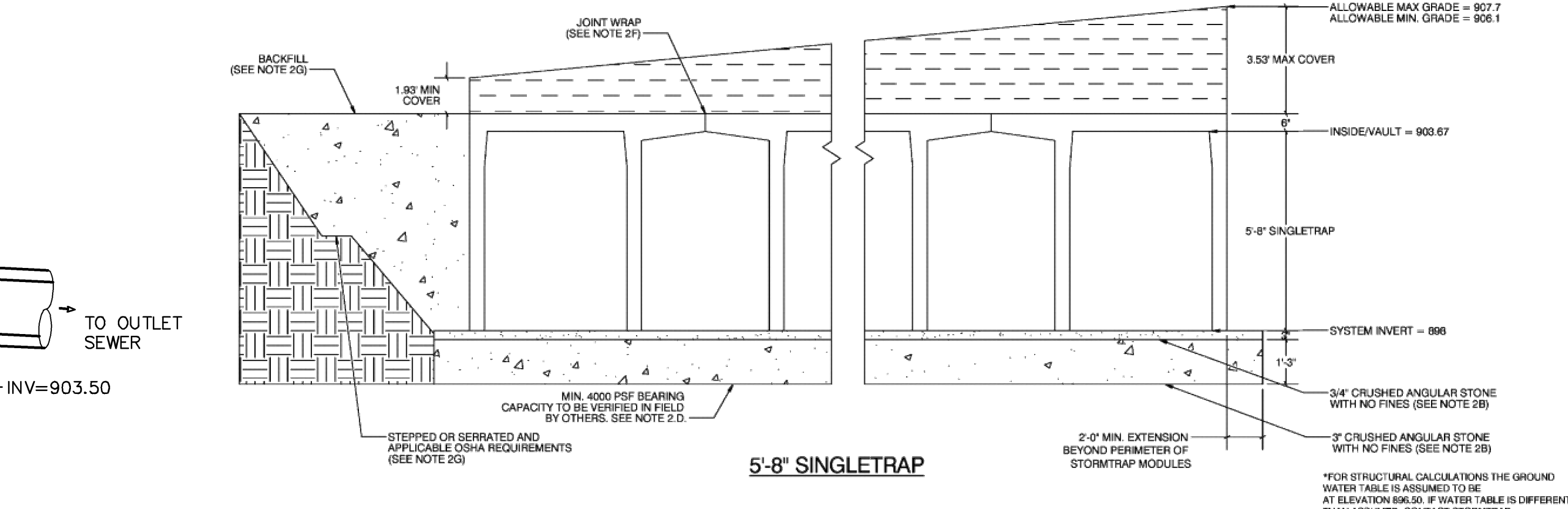
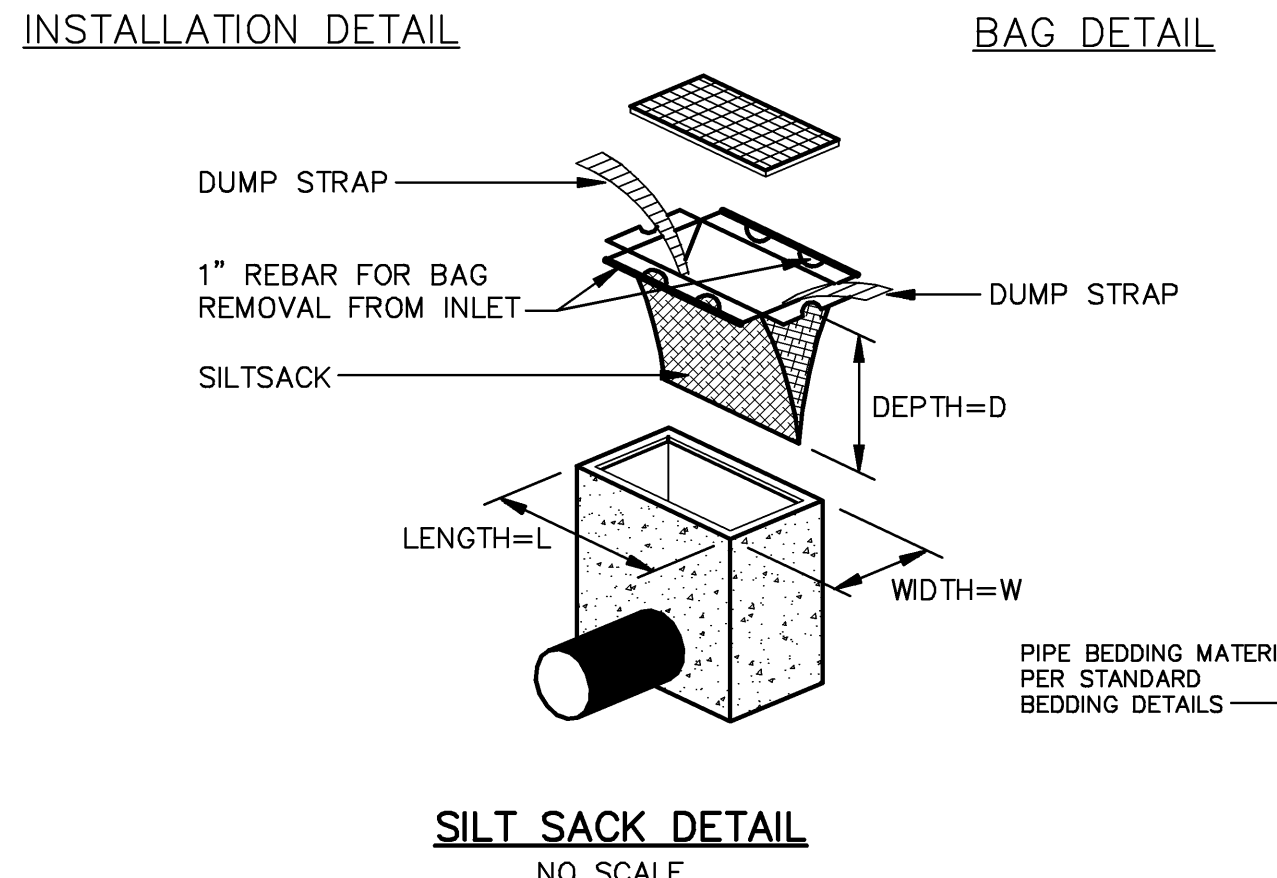
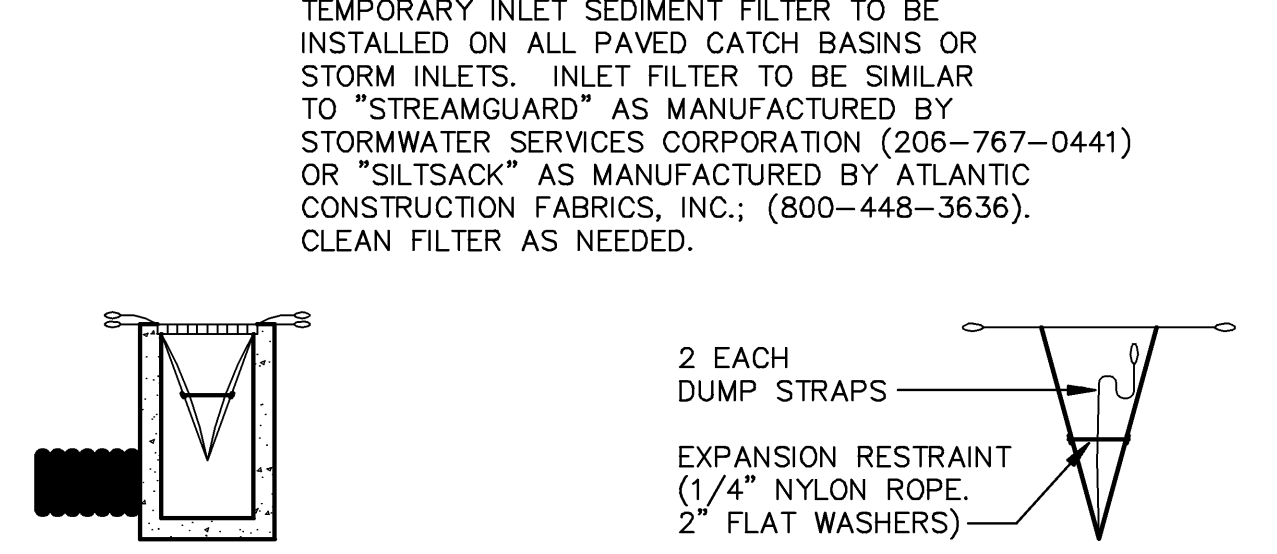
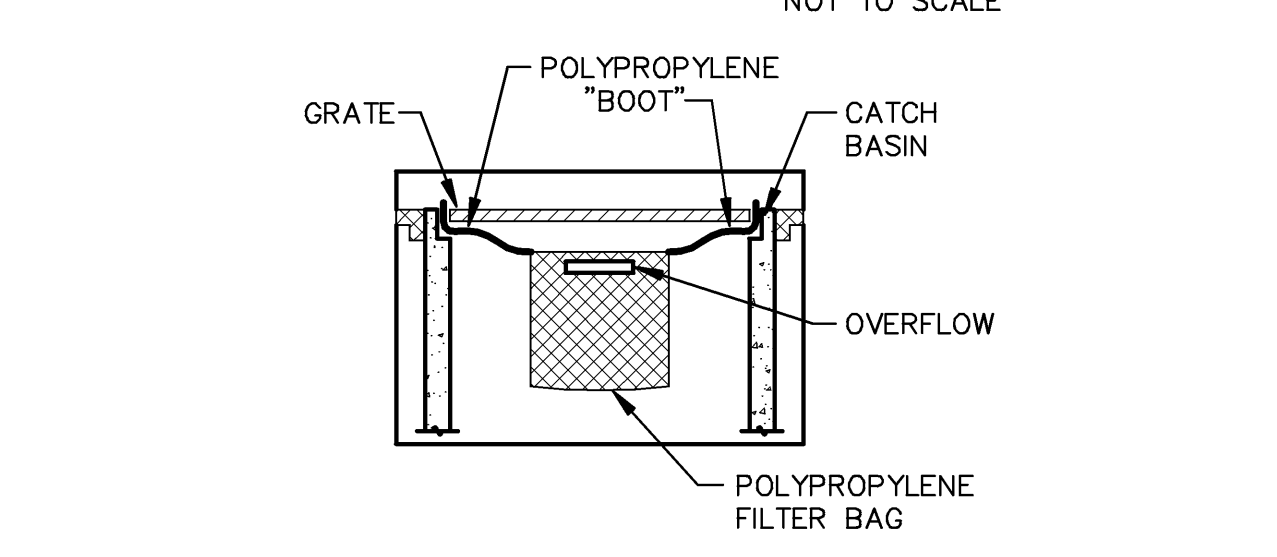
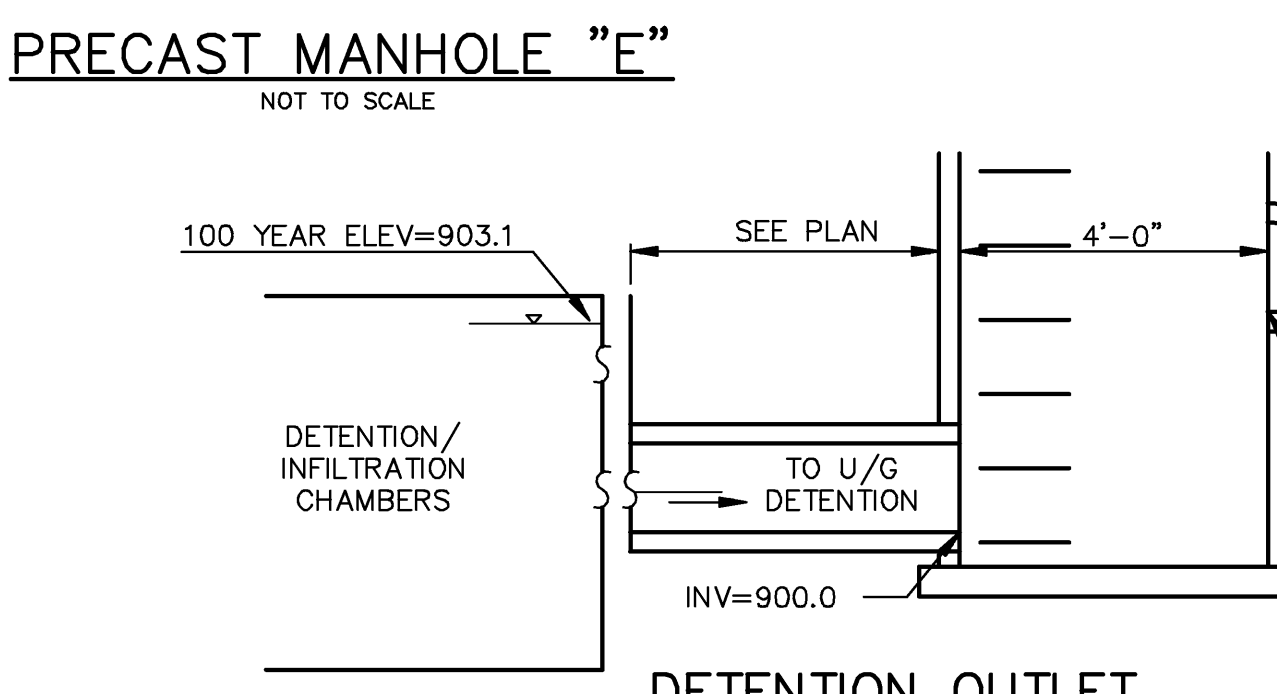
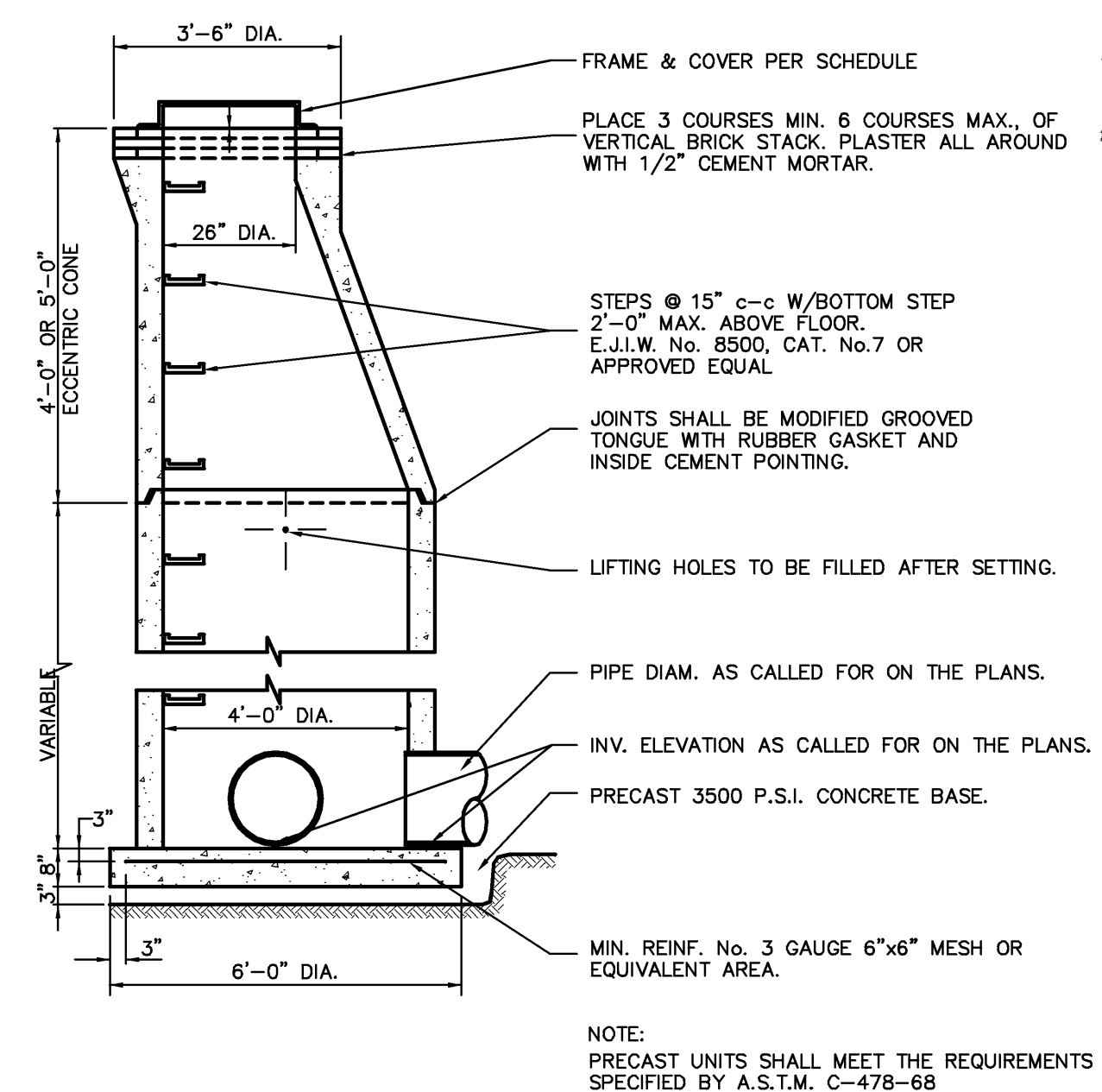


UNIT TYPE	HEIGHT	VOLUME (CU FT)	WEIGHT (LBS)
II	5'-8" SINGLETRAP	679.51	18625

NOTES:
 1. OPENING LOCATIONS VARY ON UNIT HEIGHT AND LENGTHS.
 2. SP - INDICATES A UNIT WITH MODIFICATIONS.

UNIT TYPE	HEIGHT	VOLUME (CU FT)	WEIGHT (LBS)
IV	5'-8" SINGLETRAP	508.43	17712

NOTES:
 1. OPENING LOCATIONS VARY ON UNIT HEIGHT AND LENGTHS.
 2. SP - INDICATES A UNIT WITH MODIFICATIONS.



STORM SEWER STRUCTURE SCHEDULE

STRUCT NO.	TYPE	RIM ELEV.	MAIN INV.	INV.	INV.	TYPE OF CASTING	NOTES
R-1	PRE-FAB DRAIN	906.40	6"SE 905.55				
R-2	PRE-FAB DRAIN	906.90	6"NW 905.15	905.15			
R-3	PRE-FAB DRAIN	906.90	8" 904.40	904.40			
R-4	8" DIA End Section		8" 904.00			BAR GRATE	
R-5	2' DIA Catch Basin	904.75	12" W 900.00	4" N 900.45		EJWV 1040 Type 02	2' SUMP
R-6	4' DIA Catch Basin	904.50	Ex. 18" E&W 899.55	PR. 12" SW 902.50		SALVAGED CASTING	2' SUMP
R-7	4' DIA Manhole	906.50	12" S 900.50	12" NE 903.50		EJWV 1040	
R-8	Detention Access Manhole	906.00	Tank Bottom 898.00			EJWV 1040	

R:\12148\ACAD\SET\12148\DT2.dwg, 05/17/2013 10:26:37 AM, JCA, D:\S...-KIP.ppt3
 JCA R:\12148\ACAD\SET\12148\DT2.dwg Tue, May 7 2013 10:26:38 am

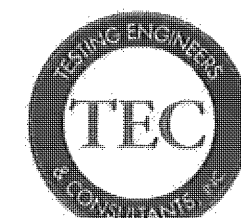


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 1343 Rochester Road - PO Box 249 - Troy, Michigan - 48099-0249
 (248) 588-6200 or (313) T-E-S-T-I-N-G
 Fax (248) 588-6232

Boring No.: 1		Job No.: 52896		Project: Proposed Skate Park	
Client: Wally Hollyday Skateparks		Location: Ann Arbor, Michigan		Drilled By: I. Mickle	
Type of Rig: Truck		Started: 10/4/2012		Completed: 10/4/2012	
Drilling Method: Solid Stem Augers		Ground Surface Elevation: 914		Water Encountered: 14'10"	
		At Completion: 12'7"		Boring No. 1	

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
0.0			-25	Moist Dark Brown Sandy TOPSOIL (3")	12.3	100	
2.5	LS 11 10	10	1.5	Medium Compact Moist Brown Clayey SAND With Trace Of Gravel	18.8	129	
5.0	LS 7 11	16		Stiff Moist Brown Oxidized CLAY With Some Silt & Thin Sand Seams At 7'6"	19.7	122	10300
7.5	LS 5 10	16	8	Extremely Stiff Moist Brown CLAY With Some Silt	15.8	131	10380
10.0	LS 7 13	21	12	Stiff Moist Gray CLAY With Some Silt & Wet Sand Seams At 14'8"	14.8	136	7250
15.0	LS 3 6	12	16	Bottom of Borehole at 15'			

*N - Standard Penetration Resistance
 SS - 2" J.D. Split Spoon Sample
 LS - Sectional Line Sample
 ST - Shelby Tube Sample
 AS - Auger Sample
 w - 100% % of dry weight
 d - Bulk Density, pcf
 qu - Unconfined Compression, psf
 DP - Direct Push

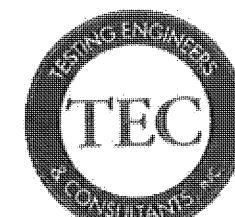


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 Fax (248) 588-6232

Boring No.: 2		Job No.: 52896		Project: Proposed Skate Park	
Client: Wally Hollyday Skateparks		Location: Ann Arbor, Michigan		Drilled By: I. Mickle	
Type of Rig: Truck		Started: 10/4/2012		Completed: 10/4/2012	
Drilling Method: Solid Stem Augers		Ground Surface Elevation: 911		Water Encountered: None	
		At Completion: None		Boring No. 2	

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
0.0			-25	Moist Dark Brown Sandy TOPSOIL (3")	6.7	106	
2.5	LS 7 9	12	3	Stiff Moist Brown Oxidized CLAY With Some Silt	12.8	106	
5.0	LS 7 14	20	5.5	Extremely Stiff Moist Brown Oxidized CLAY With Some Silt	13.9	130	
7.5	LS 8 10	10	8	Stiff Moist Brown Oxidized CLAY With Some Silt & Trace Of Gravel	20.8	125	12940
10.0	LS 4 5	6	10	Firm Moist Brown Oxidized CLAY With Some Silt			
12.5				Bottom of Borehole at 10'			

*N - Standard Penetration Resistance
 SS - 2" J.D. Split Spoon Sample
 LS - Sectional Line Sample
 ST - Shelby Tube Sample
 AS - Auger Sample
 w - 100% % of dry weight
 d - Bulk Density, pcf
 qu - Unconfined Compression, psf
 DP - Direct Push

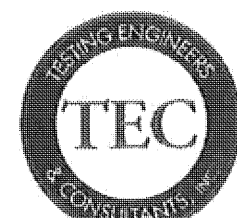


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Boring No.: 3		Job No.: 52896		Project: Proposed Skate Park	
Client: Wally Hollyday Skateparks		Location: Ann Arbor, Michigan		Drilled By: I. Mickle	
Type of Rig: Truck		Started: 10/4/2012		Completed: 10/4/2012	
Drilling Method: Solid Stem Augers		Ground Surface Elevation: 908		Water Encountered: None	
		At Completion: None		Boring No. 3	

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
0.0			-17	Moist Dark Brown Sandy TOPSOIL (2")	6.1	103	
2.5	LS 8 12	14		Stiff Moist Brown Oxidized CLAY With Some Silt	10.6	123	10220
5.0	LS 7 11	16	5	Firm Moist Gray CLAY With Some Silt & Trace Of Gravel	9.7	135	11040
7.5	LS 5 8	8			10.0	139	8730
10.0	LS 3 6	8	10	Bottom of Borehole at 10'			

*N - Standard Penetration Resistance
 SS - 2" J.D. Split Spoon Sample
 LS - Sectional Line Sample
 ST - Shelby Tube Sample
 AS - Auger Sample
 w - 100% % of dry weight
 d - Bulk Density, pcf
 qu - Unconfined Compression, psf
 DP - Direct Push

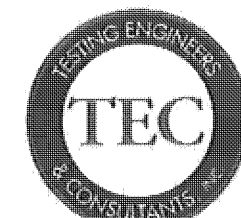


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 Fax (248) 588-6232

Boring No.: 4		Job No.: 52896		Project: Proposed Skate Park	
Client: Wally Hollyday Skateparks		Location: Ann Arbor, Michigan		Drilled By: I. Mickle	
Type of Rig: Truck		Started: 10/4/2012		Completed: 10/4/2012	
Drilling Method: Solid Stem Augers		Ground Surface Elevation: 906		Water Encountered: None	
		At Completion: None		Boring No. 4	

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
0.0			-17	Moist Dark Brown Sandy TOPSOIL (2")	10.7	101	
2.5	LS 4 4	4		Plastic Moist Brown Oxidized CLAY With Some Silt	12.1	103	
5.0	LS 3 3	2	5.5	Loose Moist Brown Clayey Medium To Fine SAND With Clay Layers & Trace Of Gravel	12.0	136	
7.5	LS 3 3	4	8	Plastic Moist Gray Oxidized CLAY With Some Silt & Very Moist Sand Seams	16.1	131	
10.0	LS 3 3	3	13	Bottom of Borehole at 13'			

*N - Standard Penetration Resistance
 SS - 2" J.D. Split Spoon Sample
 LS - Sectional Line Sample
 ST - Shelby Tube Sample
 AS - Auger Sample
 w - 100% % of dry weight
 d - Bulk Density, pcf
 qu - Unconfined Compression, psf
 DP - Direct Push



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 1343 Rochester Road - PO Box 249 - Troy, Michigan - 48099-0249
 (248) 588-6200 or (313) T-E-S-T-I-N-G
 Fax (248) 588-6232

Boring No.: 5		Job No.: 52896		Project: Proposed Skate Park	
Client: Wally Hollyday Skateparks		Location: Ann Arbor, Michigan		Drilled By: I. Mickle	
Type of Rig: Truck		Started: 10/4/2012		Completed: 10/4/2012	
Drilling Method: Solid Stem Augers		Ground Surface Elevation: 906		Water Encountered: None	
		At Completion: None		Boring No. 5	

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
0.0			-17	Moist Dark Brown Sandy TOPSOIL (2")	3.8	116	
2.5	LS 8 9	10	1.7	Medium Compact Moist Brown Clayey SAND With Trace Of Gravel	11.2	132	12030
5.0	LS 8 12	17		Stiff Moist Brown Oxidized CLAY With Some Silt & Trace Of Gravel	12.0	129	9060
7.5	LS 7 10	13	8	Firm Moist Brown Oxidized CLAY With Some Silt	12.9	129	10710
10.0	LS 4 3	3	9.5	Loose Moist Brown Fine SAND			
12.5			11	Moist Brown CLAY With Some Silt			
15.0			13	Bottom of Borehole at 13'			

*N - Standard Penetration Resistance
 SS - 2" J.D. Split Spoon Sample
 LS - Sectional Line Sample
 ST - Shelby Tube Sample
 AS - Auger Sample
 w - 100% % of dry weight
 d - Bulk Density, pcf
 qu - Unconfined Compression, psf
 DP - Direct Push

REVISIONS	BY
5/07/13	JA




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ANN ARBOR SKATEPARK
 PROJECT:
 CITY OF ANN ARBOR, MICHIGAN
 VETERANS MEMORIAL PARK
 2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: SOIL BORING LOGS
 SUBMITTAL: BID SET

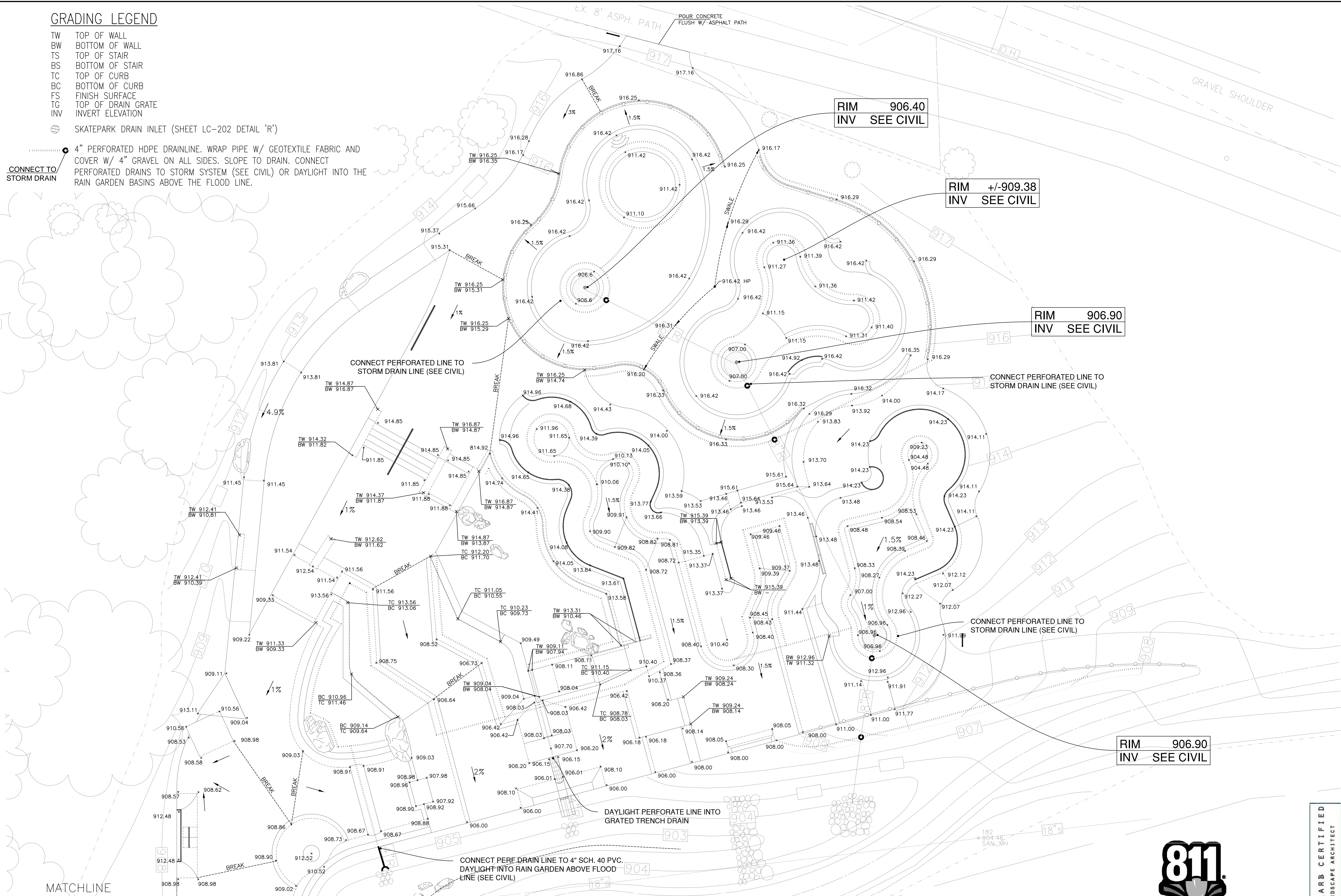
JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: No Scale
DRAWN:
SHEET: 6
6 OF 23 SHEETS

GRADING LEGEND

- TW TOP OF WALL
- BW BOTTOM OF WALL
- TS TOP OF STAIR
- BS BOTTOM OF STAIR
- TC TOP OF CURB
- BC BOTTOM OF CURB
- FS FINISH SURFACE
- TG TOP OF DRAIN GRATE
- INV INVERT ELEVATION
-  SKATEPARK DRAIN INLET (SHEET LC-202 DETAIL 'R')

 4" PERFORATED HDPE DRAINLINE. WRAP PIPE W/ GEOTEXTILE FABRIC AND COVER W/ 4" GRAVEL ON ALL SIDES. SLOPE TO DRAIN. CONNECT PERFORATED DRAINS TO STORM SYSTEM (SEE CIVIL) OR DAYLIGHT INTO THE RAIN GARDEN BASINS ABOVE THE FLOOD LINE.

 CONNECT TO STORM DRAIN



RIM 906.40
INV SEE CIVIL

RIM +/-909.38
INV SEE CIVIL

RIM 906.90
INV SEE CIVIL

RIM 906.90
INV SEE CIVIL

MATCHLINE



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LA JOLLA, CA 92037
TEL: 858.592.1111
WWW.WALLYDESIGN.COM

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WWW.CHARLESSTRAWTER.COM
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P.L.A. I.S.A. No. 2005000335
P.L.A. I.S.A. No. 194278104
P.L.A. I.S.A. No. 194278104
A Registered Prof. Landscape Arch. #1314

PROJECT: **ANN ARBOR SKATEPARK**
CITY OF ANN ARBOR, MICHIGAN
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2150 JACKSON AVE., ANN ARBOR, MI

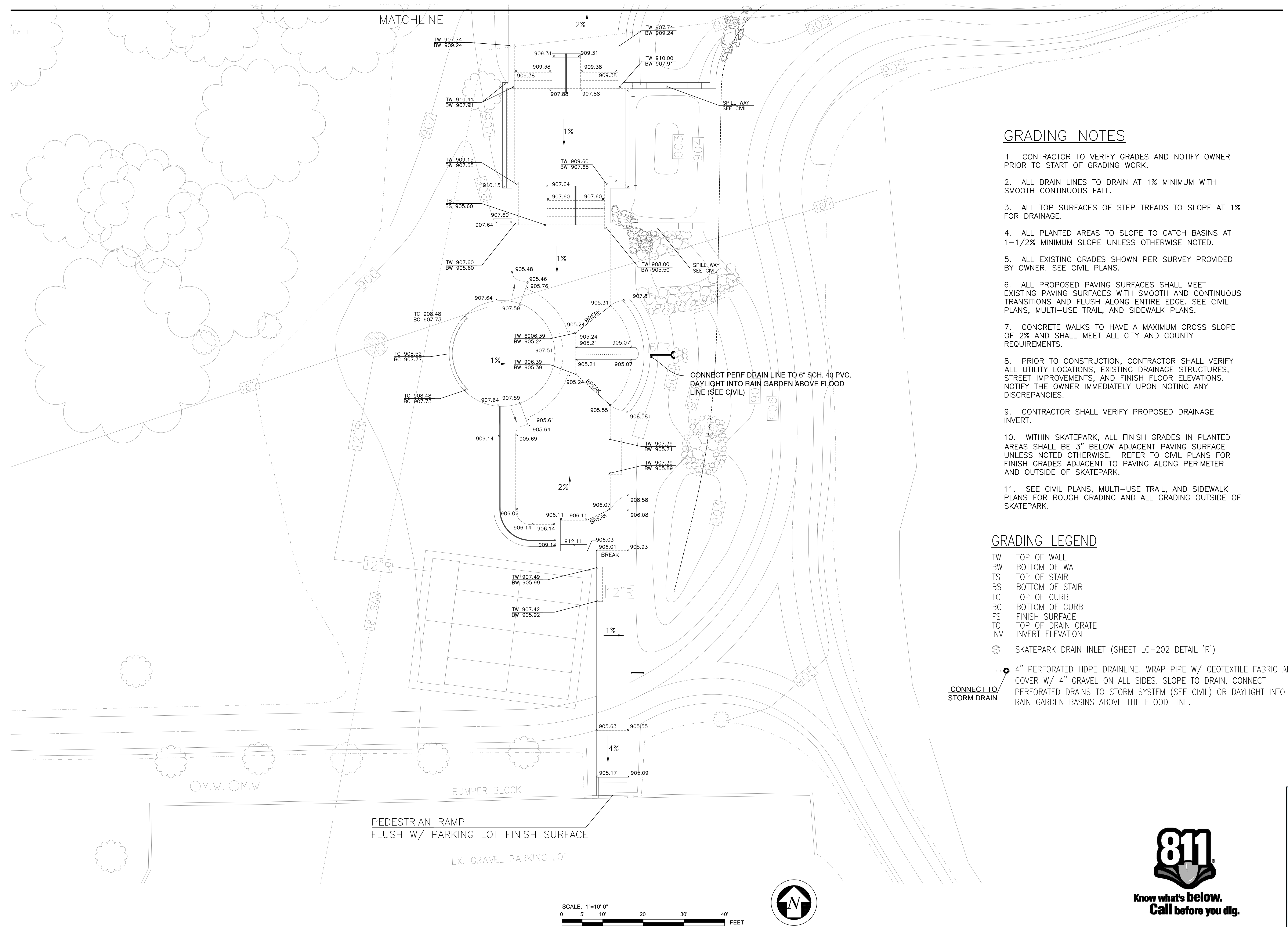
SHEET TITLE: SKATEPARK FINE GRADING PLAN
SUBMITTAL: BID SET



JOB NO. CSD1150-12
DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: LG-101
07 OF 23 SHEETS

Owner: C:\Users\Public\Documents\CHS Design, Inc.\projects\1150-12_Ann Arbor Skatepark\CDV1150-LG-GRADING.dwg, Wed, May 8 2013 12:56:30 pm

Owner: C:\Users\Public\Documents\CHS Design, Inc.\projects\1150-12_Ann Arbor Skatepark\CDV1150-LG-GRADING.dwg, Wed, May 8 2013 12:57:02 pm



GRADING NOTES

1. CONTRACTOR TO VERIFY GRADES AND NOTIFY OWNER PRIOR TO START OF GRADING WORK.
2. ALL DRAIN LINES TO DRAIN AT 1% MINIMUM WITH SMOOTH CONTINUOUS FALL.
3. ALL TOP SURFACES OF STEP TREADS TO SLOPE AT 1% FOR DRAINAGE.
4. ALL PLANTED AREAS TO SLOPE TO CATCH BASINS AT 1-1/2% MINIMUM SLOPE UNLESS OTHERWISE NOTED.
5. ALL EXISTING GRADES SHOWN PER SURVEY PROVIDED BY OWNER. SEE CIVIL PLANS.
6. ALL PROPOSED PAVING SURFACES SHALL MEET EXISTING PAVING SURFACES WITH SMOOTH AND CONTINUOUS TRANSITIONS AND FLUSH ALONG ENTIRE EDGE. SEE CIVIL PLANS, MULTI-USE TRAIL, AND SIDEWALK PLANS.
7. CONCRETE WALKS TO HAVE A MAXIMUM CROSS SLOPE OF 2% AND SHALL MEET ALL CITY AND COUNTY REQUIREMENTS.
8. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS, EXISTING DRAINAGE STRUCTURES, STREET IMPROVEMENTS, AND FINISH FLOOR ELEVATIONS. NOTIFY THE OWNER IMMEDIATELY UPON NOTING ANY DISCREPANCIES.
9. CONTRACTOR SHALL VERIFY PROPOSED DRAINAGE INVERT.
10. WITHIN SKATEPARK, ALL FINISH GRADES IN PLANTED AREAS SHALL BE 3" BELOW ADJACENT PAVING SURFACE UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS FOR FINISH GRADES ADJACENT TO PAVING ALONG PERIMETER AND OUTSIDE OF SKATEPARK.
11. SEE CIVIL PLANS, MULTI-USE TRAIL, AND SIDEWALK PLANS FOR ROUGH GRADING AND ALL GRADING OUTSIDE OF SKATEPARK.

GRADING LEGEND

- TW TOP OF WALL
- BW BOTTOM OF WALL
- TS TOP OF STAIR
- BS BOTTOM OF STAIR
- TC TOP OF CURB
- BC BOTTOM OF CURB
- FS FINISH SURFACE
- TG TOP OF DRAIN GRATE
- INV INVERT ELEVATION
- SKATEPARK DRAIN INLET (SHEET LC-202 DETAIL 'R')

4" PERFORATED HDPE DRAINLINE. WRAP PIPE W/ GEOTEXTILE FABRIC AND COVER W/ 4" GRAVEL ON ALL SIDES. SLOPE TO DRAIN. CONNECT PERFORATED DRAINS TO STORM SYSTEM (SEE CIVIL) OR DAYLIGHT INTO THE RAIN GARDEN BASINS ABOVE THE FLOOD LINE.

CONNECT TO STORM DRAIN

REVISIONS	BY
5/7/13	CHS

WALLY HOLLYDAY
design
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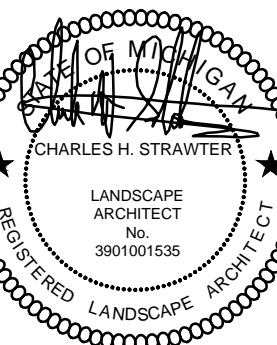
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734.769.1111
www.wallyhollyday.com

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LICENSE NO. 20500-0035
ANN ARBOR, MICHIGAN

PROJECT: **ANN ARBOR SKATEPARK**
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

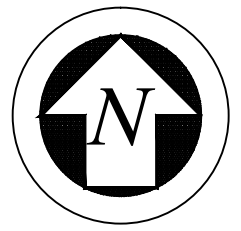
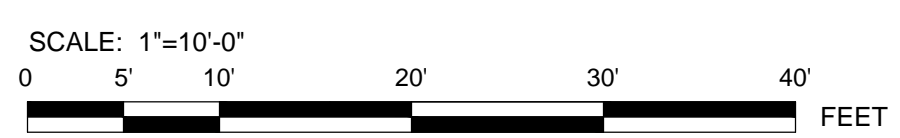
SHEET TITLE: SKATEPARK FINE GRADING PLAN

SUBMITTAL: BID SET



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LANDSCAPE ARCHITECT

JOB NO. CSD1150-12
DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: **LG-102**
08 OF 23 SHEETS





SE CORNER SECTION 24 T2S, R5E

4" H.P. G.
6" GAS

P.O.B.

BENCHMARK

CITY OF ANN ARBOR BM# 0101
(NGS CONTROL PT.# G331 (PID#NE1049)):

TOP OF STAINLESS STEEL ROD IN BOX UNDER ALUMINUM CAP. @ THE SOUTHEAST CORNER OF MAPLE RD. AND DEXTER AVENUE.

ELEV.=929.90 NAVD88

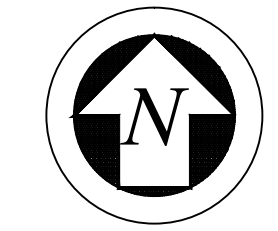
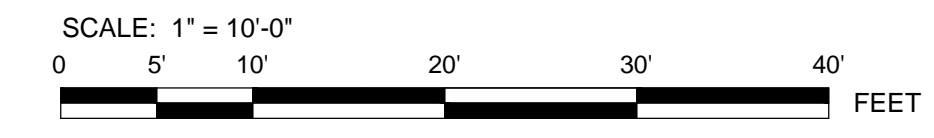
T/PAD 930.5

TRAFFIC SIGNAL CABINET

TRAFFIC SIGNAL HAND HOLES

SCALE: 1" = 10'-0"

0 5' 10' 20' 30' 40' FEET



811

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WALLY HOLLYDAY
Landscape Architect

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LANDSCAPE ARCHITECT
2150 JACKSON AVENUE, ANN ARBOR, MI 48106

PROJECT: ANN ARBOR SKATEPARK
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: LAYOUT PLAN

SUBMITTAL: BID SET

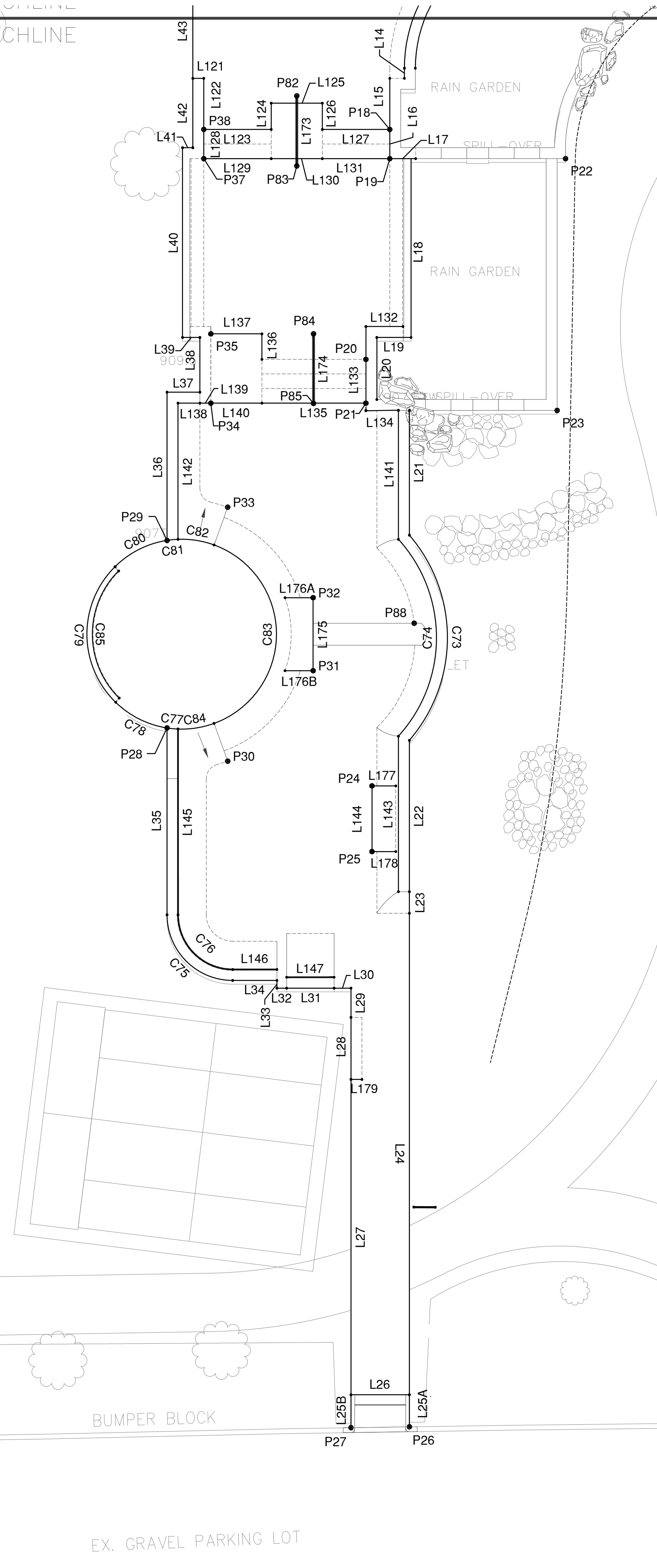


CLAR CERTIFIED
LANDSCAPE ARCHITECT

JOB NO. CSD1150-12
DATE: 04-16-2013
SCALE: PER PLAN
DRAWN:
SHEET: **LI-101**
09 OF 23 SHEETS

Owner: C:\Users\Public\Documents\CHS Design, Inc.\projects\1150-12_Ann Arbor Skatepark\CD\1150-LL-LAYOUT.dwg Wed May 8 2013 12:56:43 pm

MATCHLINE



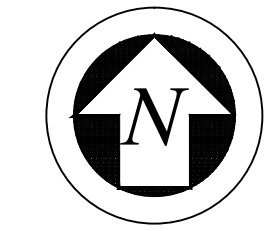
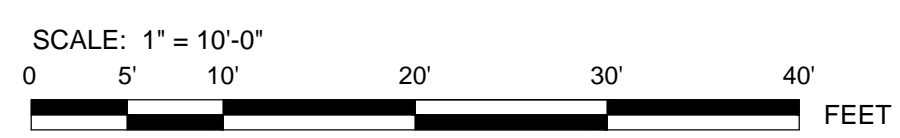
M.W. O.M.W.

BUMPER BLOCK

EX. GRAVEL PARKING LOT

BENCHMARK

CITY OF ANN ARBOR BM# 0101
 (NGS CONTROL PT.# G331 (PID#NE1049)):
 TOP OF STAINLESS STEEL ROD IN BOX UNDER
 ALUMINUM CAP. @ THE SOUTHEAST CORNER OF
 MAPLE RD. AND DEXTER AVENUE.
 ELEV.=929.90 NAVD88



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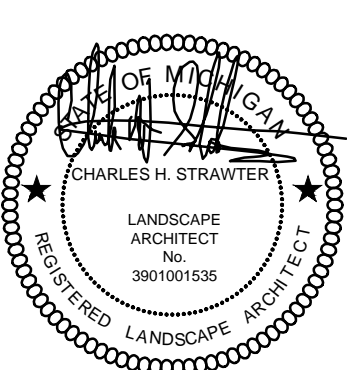
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 734.769.1100
 www.charlesstrawter.com

SHEET TITLE: LAYOUT PLAN

PROJECT: **ANN ARBOR SKATEPARK**
 CITY OF ANN ARBOR, MICHIGAN
 VETERANS MEMORIAL PARK
 2150 JACKSON AVE., ANN ARBOR, MI

SUBMITTAL: BID SET



CLARB CERTIFIED LANDSCAPE ARCHITECT

JOB NO.	CSD1150-12
DATE:	04-16-2013
SCALE:	PER PLAN
DRAWN:	
SHEET:	LI-102
	10 OF 23 SHEETS

Owner: C:\Users\Public\Documents\CHS Design, Inc.\projects\1150-12_Ann Arbor Skatepark\CD\1150-LL-LAYOUT.dwg Wed May 8 2013 12:59:16 pm

POINT DATA TABLES

*P.O.B. @ BENCH MARK

Table with columns: POINT, NORTHING, EASTING. Rows include POB*, P1 through P45, listing coordinates for various points.

CURVE DATA TABLE

Table with columns: CURVE, RADIUS, LENGTH, DELTA, TANGENT, CHORD, BEARING. Rows include C1 through C50, listing curve data.

LINE DATA TABLES

Table with columns: CURVE, RADIUS, LENGTH, DELTA, TANGENT, CHORD, BEARING. Rows include C51 through C99, listing curve data.

Table with columns: LINE, LENGTH, CHORD BEARING. Rows include L1 through L140, listing line data.

Table with columns: LINE, LENGTH, CHORD BEARING. Rows include L141 through L188, listing line data.

Table with columns: REVISIONS, BY. Shows revision history.

Logo for 'WALLY HOLLYDAY' with contact information and website URL.

Professional seal for Charles H. Strawter, Landscape Architect, No. 385000035.

PROJECT: ANN ARBOR SKATEPARK, CITY OF ANN ARBOR, MICHIGAN, VETERANS MEMORIAL PARK, 2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: LAYOUT DATA TABLES

Professional seal for Charles H. Strawter, Landscape Architect, No. 385000035.

Logo for 'CLAR CERTIFIED LANDSCAPE ARCHITECT' and project information: JOB NO. CSD1150-12, DATE: 04-16-2013, SCALE: -, DRAWN: CHS, SHEET: LI-201, 11 OF 23 SHEETS.

SUBMITTAL: BID SET

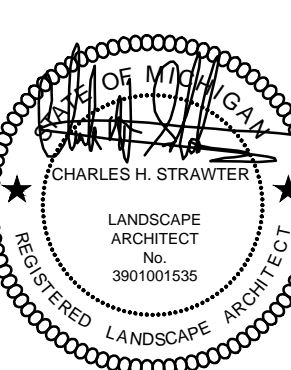
REVISIONS	BY
5/7/13	CHS



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PROJECT: ANN ARBOR SKATEPARK
 CITY OF ANN ARBOR, MICHIGAN
 VETERANS MEMORIAL PARK
 2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION PLAN
 SUBMITTAL: BID SET



JOB NO. CSD1150-12
 DATE: 04-16-2013
 SCALE: PER PLAN
 DRAWN: CHS
 SHEET: LC-101
 12 OF 23 SHEETS

CONSTRUCTION METALS AND JOINTING LEGEND:

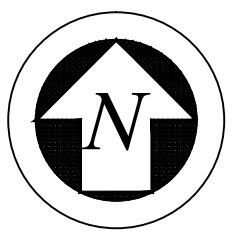
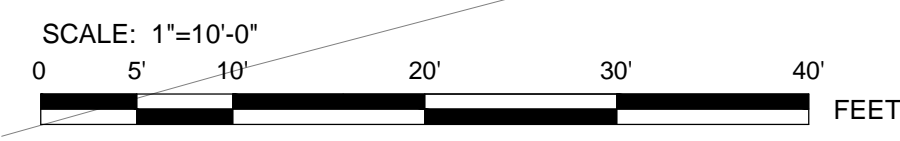
SYM.	CALLOUT	DESCRIPTION	SUPPLIER	DETAIL
---		STEEL PIPE COPING	-	A
---		GRIND EDGE	-	B
---	1	FLAT RAIL / SLANT RAIL (SEE SECTIONS)	-	M
---	2	GUARD RAIL	-	O
---		BOTTOM OF SLOPE	-	J,N
CJ		BOTTOM OF SLOPE/COLD JOINT	-	J,N,G
CJ		COLD JOINT	-	G
SJ		SAW CUT/ CONSTRUCTION JOINT	-	F
EJ		EXPANSION JOINT	-	F

CONSTRUCTION HARDSCAPE MATERIALS LEGEND:

SYM.	CALLOUT	DESCRIPTION	SUPPLIER	DETAIL
---	3	PERIMETER THICKENED CONCRETE EDGE	-	C
---		TYPICAL TRANSITION - 6" THICK SHOTCRETE PAVING	-	J
---		TYPICAL EMBANKMENT - 6" THICK SHOTCRETE PAVING	-	N
---		MONOLITHIC CAST-IN-PLACE ELEMENT - SHOT CRETE	-	H
---		6" THICK CONCRETE PAVING	-	E
---		TYPICAL CONCRETE LEDGE	-	I
---	4	TYPICAL TURNDOWN WALL	-	L
---	5	PRECAST PARKING BLOCK	-	Q
---	6	PERMEABLE CONCRETE BRICK RILL	-	T
---	7	METAL GRATE	-	S
---		TYPICAL STAIR	-	K
---	8	RAIN GARDEN WEIR WALL	-	-
---	9	RETAINING WALL BELOW DECK- SEE CIVIL PLANS	-	-
---	10	GLACIAL TILL BOULDERS ("FEATURE BOULDERS" SHALL BE SELECTED AND APPROVED BY DESIGNER PRIOR TO DELIVERY ON SITE)	-	-
---	11	BRICK STAMPED CONCRETE EMBANKMENT (COLOR TBD)	-	-
---	12	CONCRETE CURB	-	N (SIMILAR)
---	13	POOL STEPS	-	-
---	14	PRE-CAST POOL COPING	GOLDEN STATE	P
---	15	RETAINING WALL (SEE CIVIL PLANS)	-	-
---	16	SKATEPARK STORM DRAIN INLET	ZURN	R
---	17	SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (PER MDOT DETAIL R-28-F)	-	-
---	18	SKATEPARK RULES SIGNAGE (3 TOTAL)	-	U

CONCRETE COLOR:

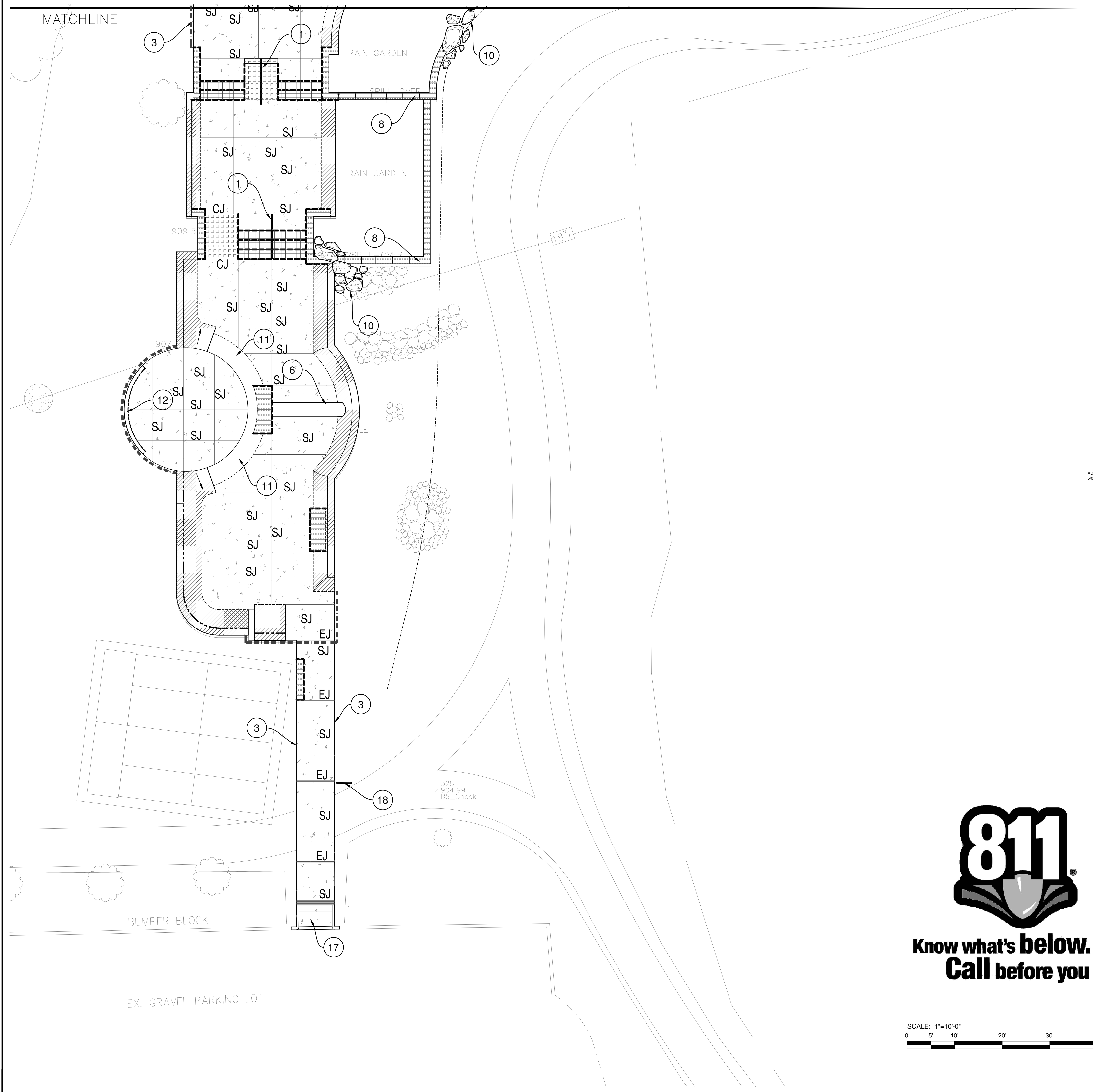
DESCRIPTION	SUPPLIER
ALL CONCRETE PAVING/ CAST-IN-PLACE/SHOTCRETE	COLOR: DRY PIGMENT LAMP BLACK APPLY @ 1LB PER C.Y. OF CONCRETE DANIEL SMITH OR APPROVED EQUAL



CLARB CERTIFIED
 LANDSCAPE ARCHITECT

Owner C:\Users\Public\Documents\CHS Design, Inc.\projects\1150-12_Ann Arbor Skatepark\CD\1150-LC-CONSTRUCTION.dwg Wed, May 8 2013 01:15:35 pm

MATCHLINE



CONSTRUCTION METALS AND JOINTING LEGEND:

SYM.	CALLOUT	DESCRIPTION	SUPPLIER	DETAIL
---		STEEL PIPE COPING	-	A
---		GRIND EDGE	-	B
---	1	FLAT RAIL / SLANT RAIL (SEE SECTIONS)	-	M
---	2	GUARD RAIL	-	O
---		BOTTOM OF SLOPE	-	J,N
CJ		BOTTOM OF SLOPE/COLD JOINT	-	J,N,G
CJ		COLD JOINT	-	G
SJ		SAW CUT/ CONSTRUCTION JOINT	-	F
EJ		EXPANSION JOINT	-	F

CONSTRUCTION HARDSCAPE MATERIALS LEGEND:

SYM.	CALLOUT	DESCRIPTION	SUPPLIER	DETAIL
---	3	PERIMETER THICKENED CONCRETE EDGE	-	C
---		TYPICAL TRANSITION - 6" THICK SHOTCRETE PAVING	-	J
---		TYPICAL EMBANKMENT - 6" THICK SHOTCRETE PAVING	-	N
---		MONOLITHIC CAST-IN-PLACE ELEMENT - SHOT CRETE	-	H
---		6" THICK CONCRETE PAVING	-	E
---		TYPICAL CONCRETE LEDGE	-	I
---	4	TYPICAL TURNDOWN WALL	-	L
---	5	PRECAST PARKING BLOCK	-	Q
---	6	PERMEABLE CONCRETE BRICK RILL	-	T
---	7	METAL GRATE	-	S
---		TYPICAL STAIR	-	K
---	8	RAIN GARDEN WEIR WALL	-	-
---	9	RETAINING WALL BELOW DECK- SEE CIVIL PLANS	-	-
---	10	GLACIAL TILL BOULDERS ("FEATURE BOULDERS" SHALL BE SELECTED AND APPROVED BY DESIGNER PRIOR TO DELIVERY ON SITE)	-	-
---	11	BRICK STAMPED CONCRETE EMBANKMENT (COLOR TBD)	-	-
---	12	CONCRETE CURB	-	N (SIMILAR)
---	13	POOL STEPS	-	-
---	14	PRE-CAST POOL COPING	GOLDEN STATE	P
---	15	RETAINING WALL (SEE CIVIL PLANS)	-	-
---	16	SKATEPARK STORM DRAIN INLET	ZURN	R
---	17	SIDEWALK RAMP W/ DETECTABLE WARNING SURFACE (PER MDT DETAIL R-28-F)	-	-
---	18	SKATEPARK RULES SIGNAGE (3 TOTAL)	-	U

CONCRETE COLOR:

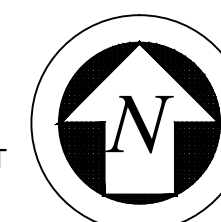
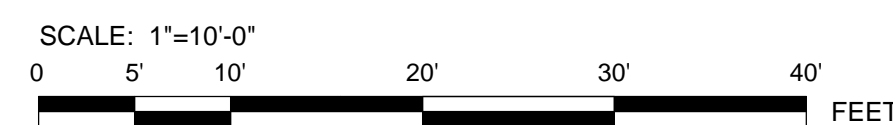
	DESCRIPTION	SUPPLIER
ALL CONCRETE PAVING/ CAST-IN-PLACE/SHOTCRETE	COLOR: DRY PIGMENT LAMP BLACK APPLY @ 1LB PER C.Y. OF CONCRETE	DANIEL SMITH OR APPROVED EQUAL

NOTES:

- ALL STEEL REINFORCEMENT FOR CONCRETE/SHOTCRETE BOWLS, FLOOR SLABS, RAMPS AND JUMPS SHALL BE #4 @ 12" O.C. EACH WAY UNLESS NOTED OTHERWISE.
- ALL CONCRETE SHALL BE PORTLAND CEMENT ASTM C150 TYPE II (SEE SPECIFICATIONS)
- CONTRACTOR TO PROTECT TOE OF ALL WALL FOOTINGS FROM SOIL EROSION AND WATER SATURATION OF SOIL USING APPROPRIATE CONSTRUCTION METHODS.
- FOOTINGS SHALL BEAR ON FIRM SOIL W/ MIN BEARING CAPACITY OF 1500 P.S.F.
- BASE COURSE UNDER ALL FLOOR SLABS, BOWLS, AND JUMPS SHALL BE COMPACTED TO A MINIMUM OF 90% OR MORE OF ASTM D1557 MAXIMUM DRY DENSITY.
- ALL DECK RAMPS SHALL HAVE A MINIMUM 3'-0" RADIUS AT THE BASE INTERSECTION. KEEP TOP OF RAMP AND DECK CONNECTION AS A TRUE INTERSECTION.
- ENGINEERED FILL SHOULD BE ONSITE SOILS OR IMPORTED FILL SOILS SIMILAR TO ONSITE SOILS. IMPORTED FILL SOILS SHALL BE APPROVED BY DPW INSPECTOR PRIOR TO HAULING TO SITE. SUITABLE MATERIAL SHOULD BE FREE OF ORGANIC MATTER OR OTHER DELETERIOUS MATERIALS AND ANY 3" ORB GREATER SIZE ROCKS ARE TO BE REMOVED. FILL SHOULD BE PLACED IN 8" LIFTS AND COMPACTED TO MINIMUM 95 OR MORE OF ASTM D1557 MAXIMUM DRY DENSITY.
- JOINTING PLAN IS DIAGRAMMATIC ONLY. CONTRACTOR TO SNAP CHALK LINES FOR ALL SAW-CUT JOINTS AND SET ALL OTHER JOINT FORMS FOR REVIEW BY LANDSCAPE ARCHITECT.
- CONCRETE AND FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'x4' MOCK UP ON SITE OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. MOCK UP PANELS SHALL CONSIST OF SHOTCRETE AND POURED-IN-PLACE CONCRETE. FOR SKATE FACILITY SAMPLES THE CONTRACTOR SHALL DEMONSTRATE METHODS OF CURING BLANKETS AND PROVIDING MOISTURE DURING CURING PERIOD. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.



**Know what's below.
Call before you dig.**



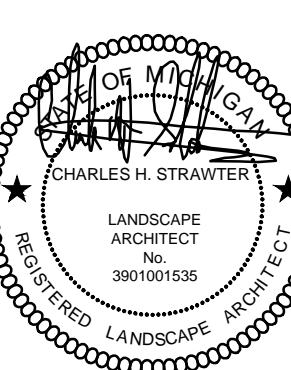
REVISIONS	BY
5/7/13	CHS



CHARLES H. STRAWTER, D. DESIGN, INC.
LANDSCAPE ARCHITECT
2150 JACKSON AVE., ANN ARBOR, MI 48106
734.769.1111
www.charlesstrawterdesign.com

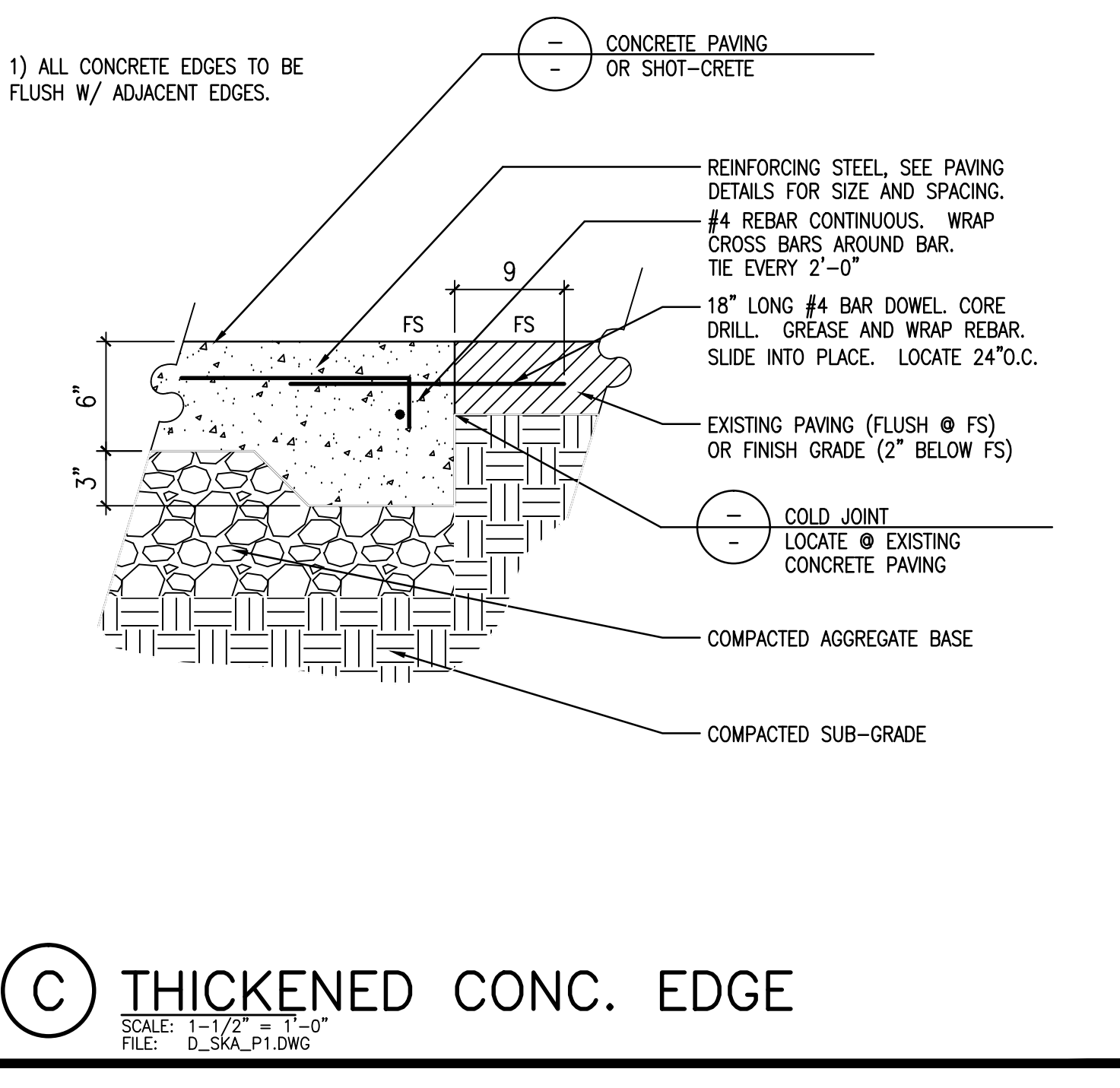
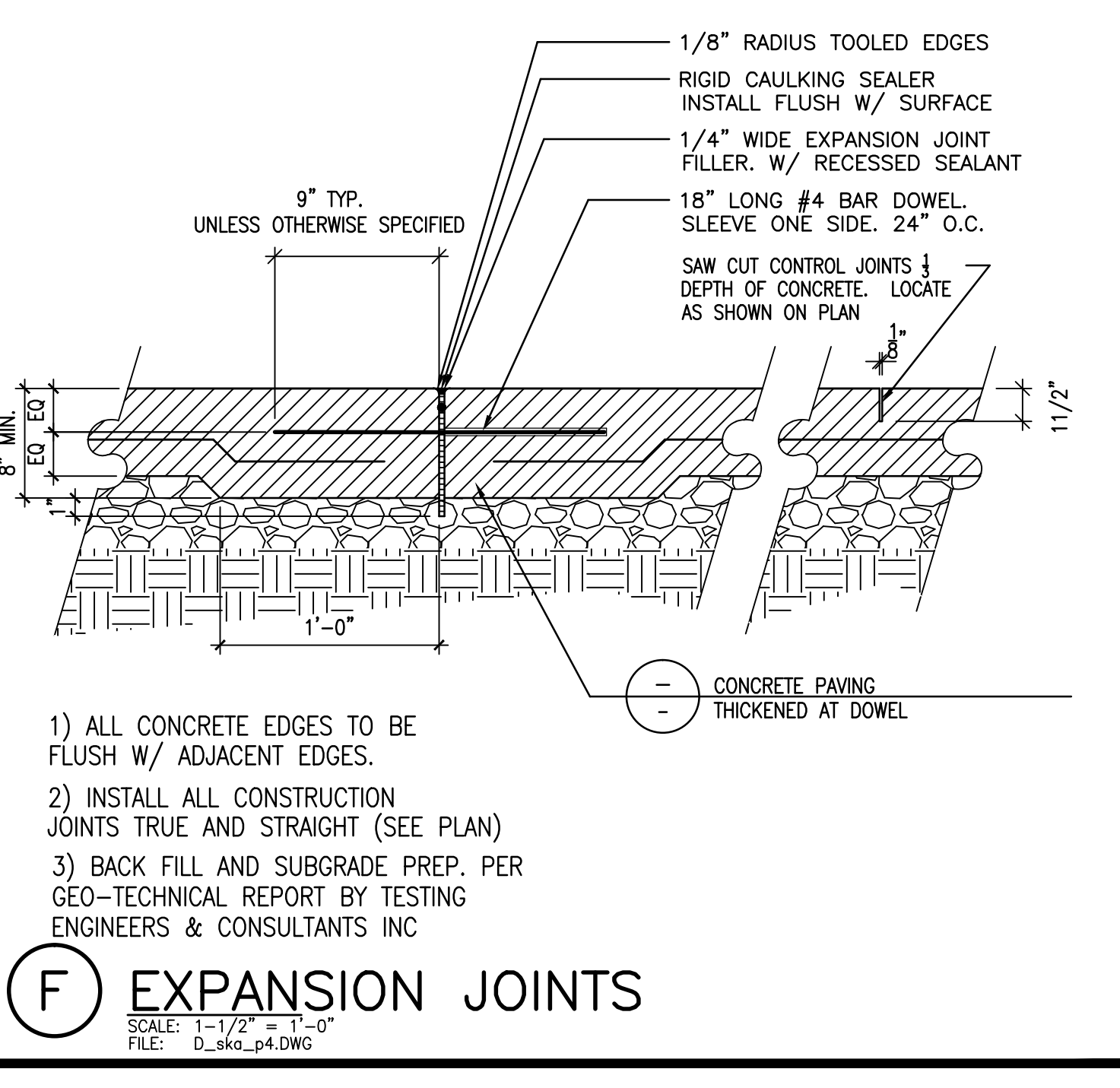
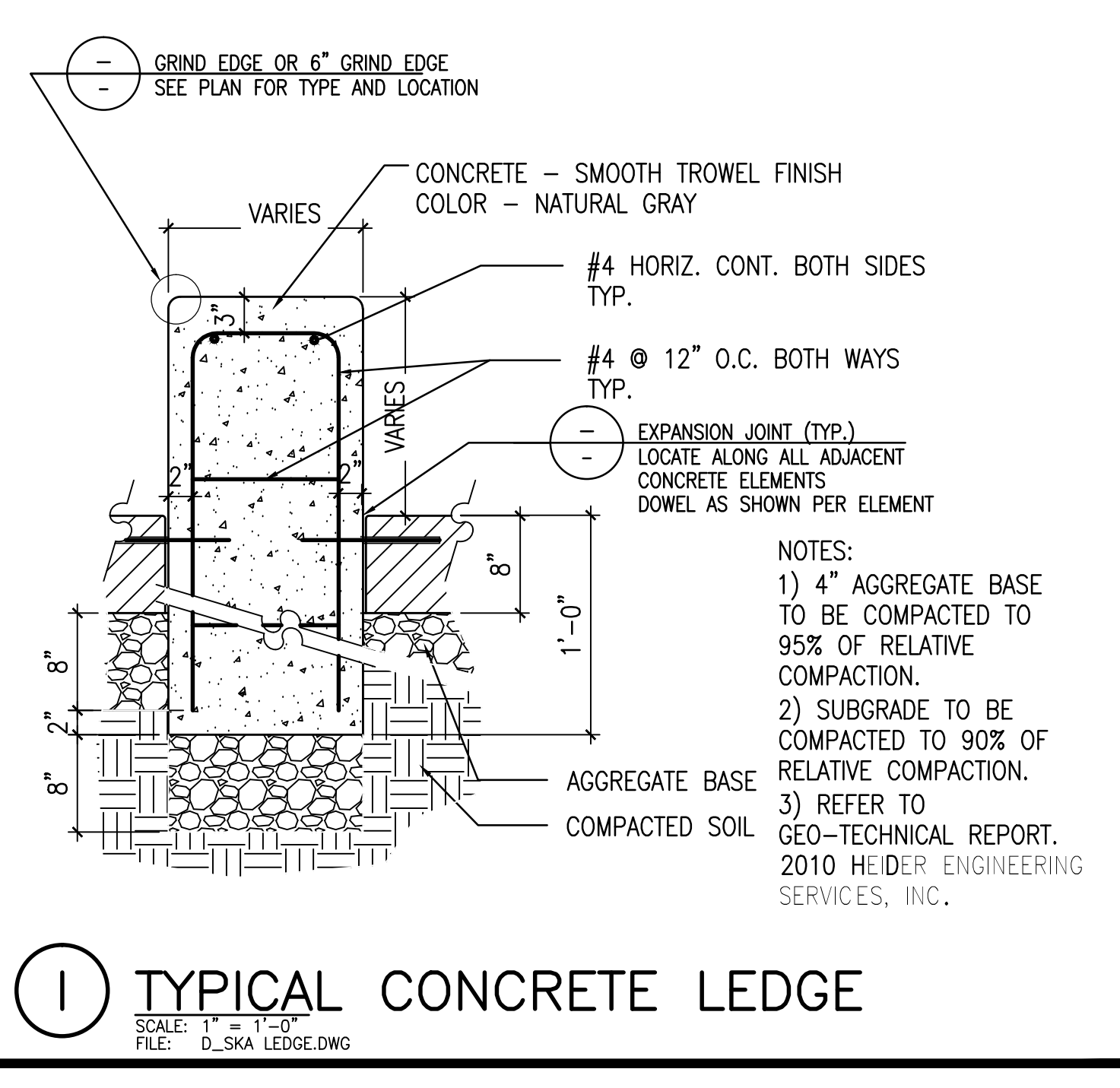
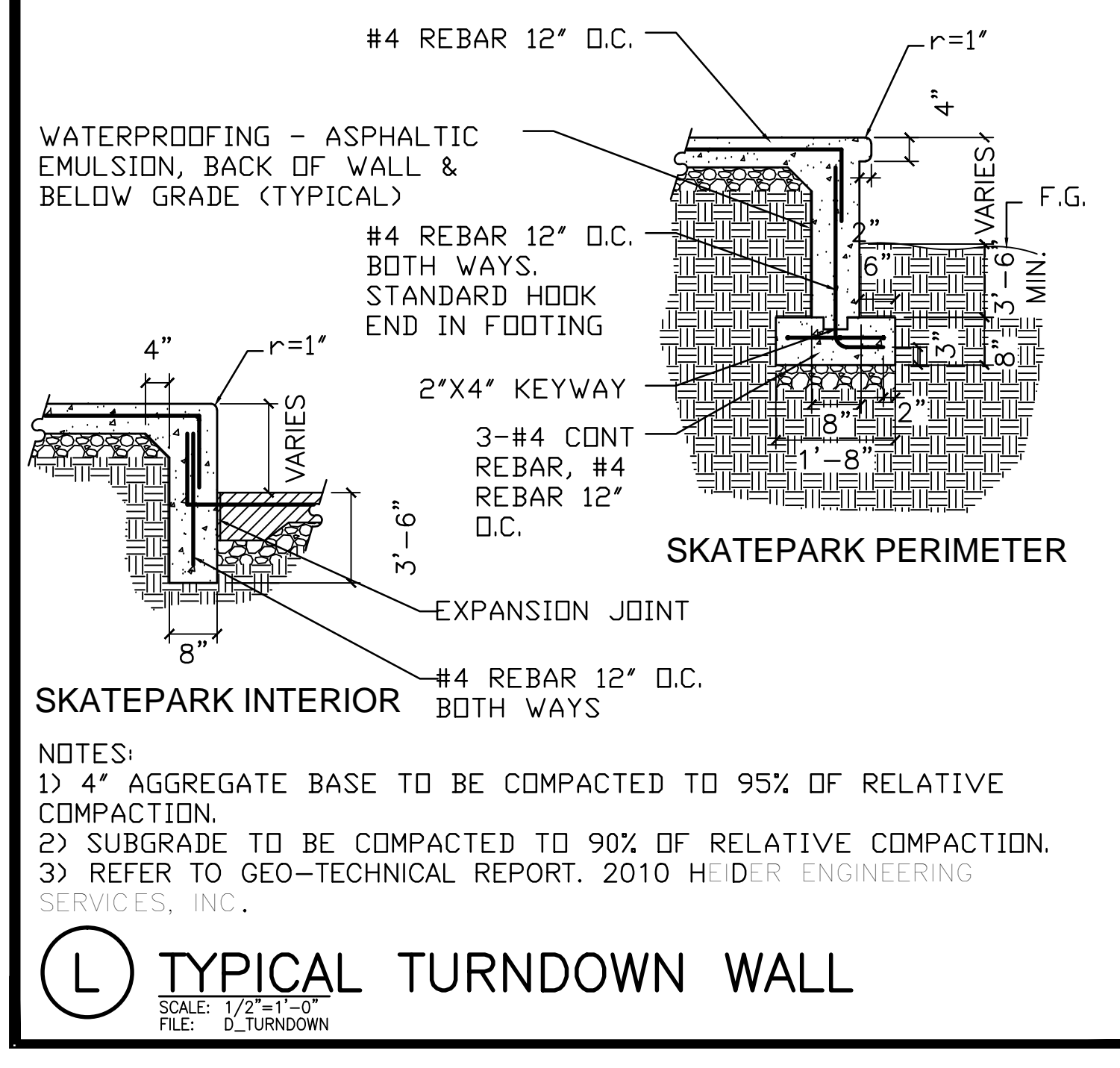
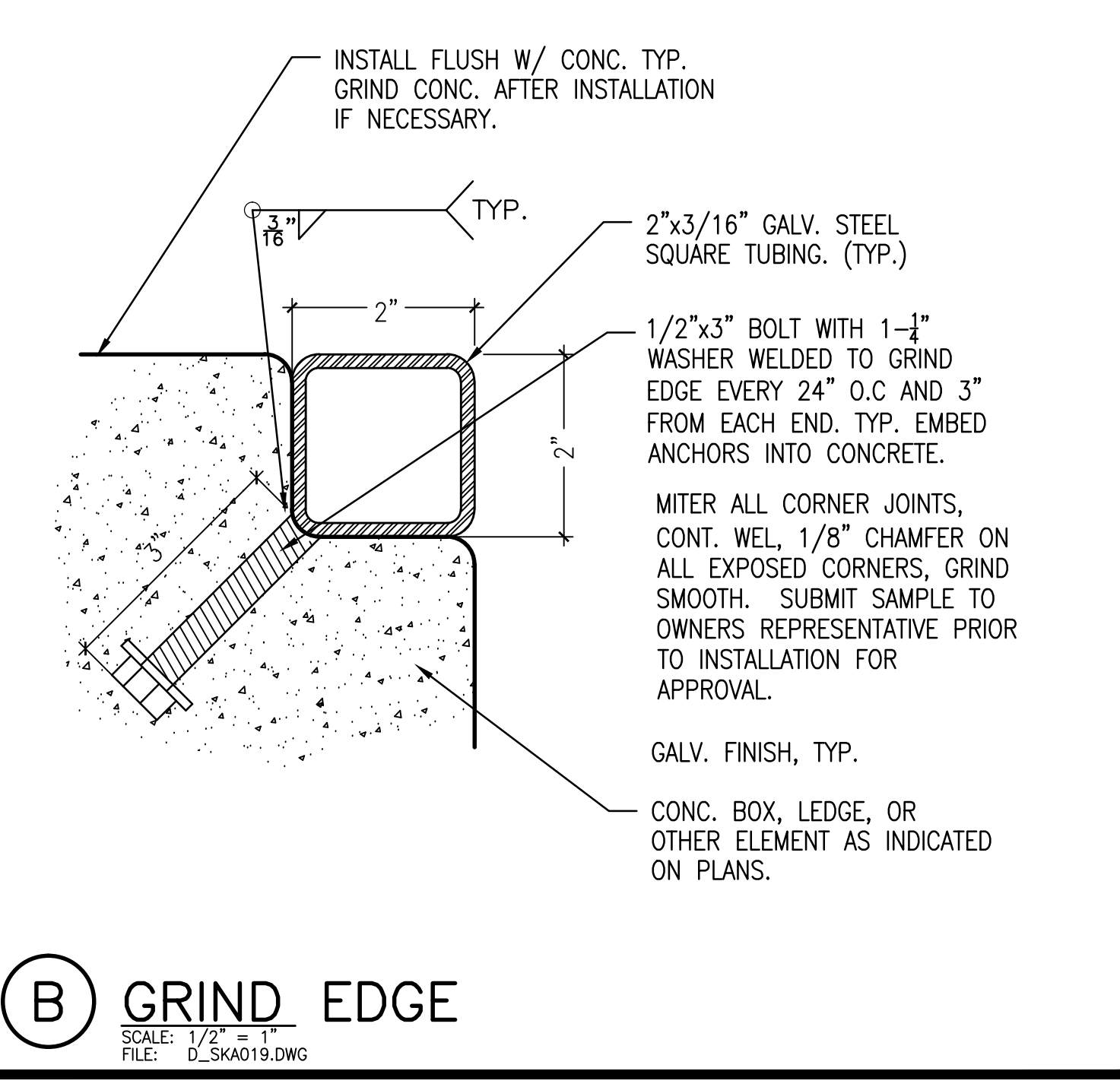
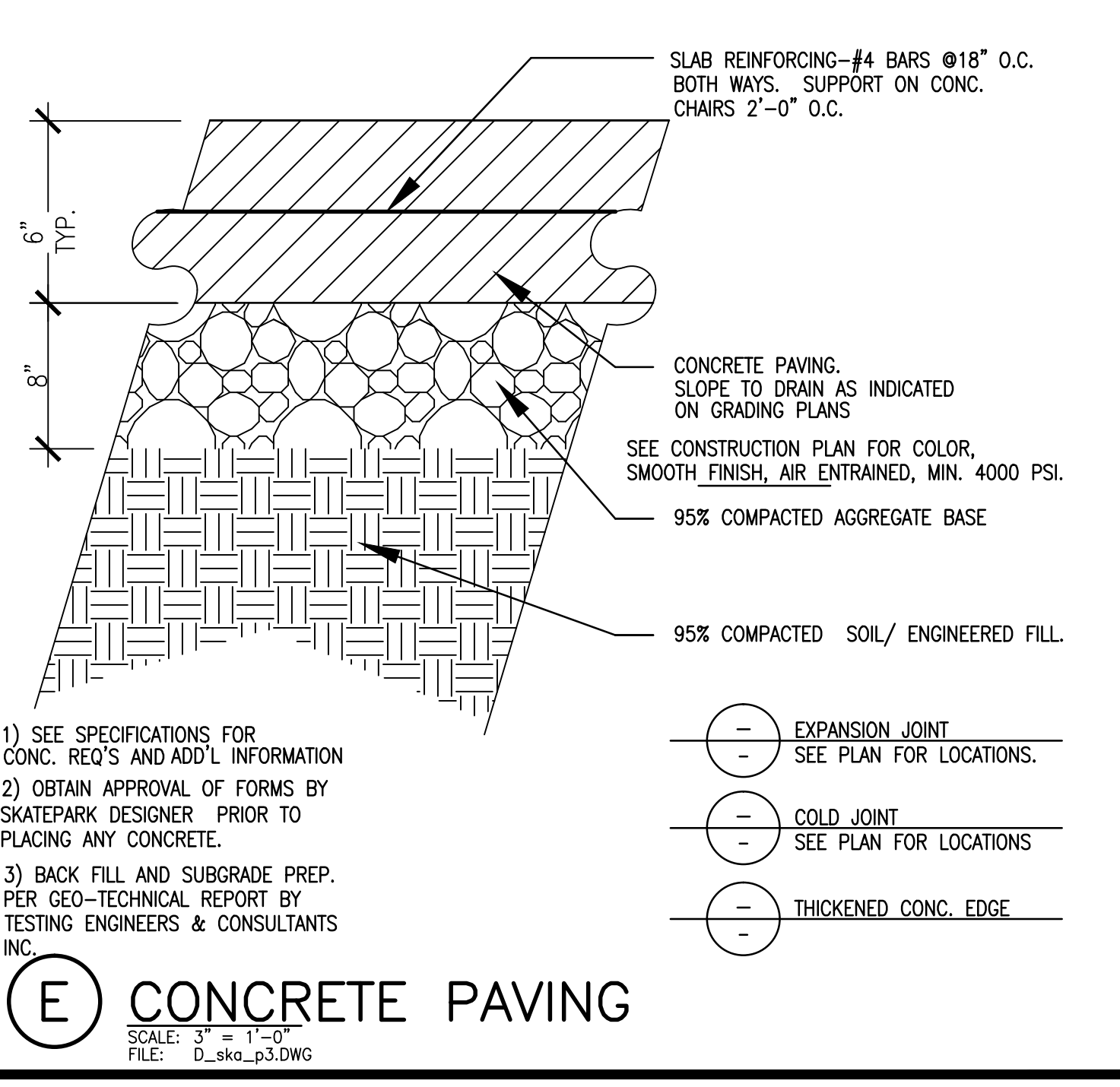
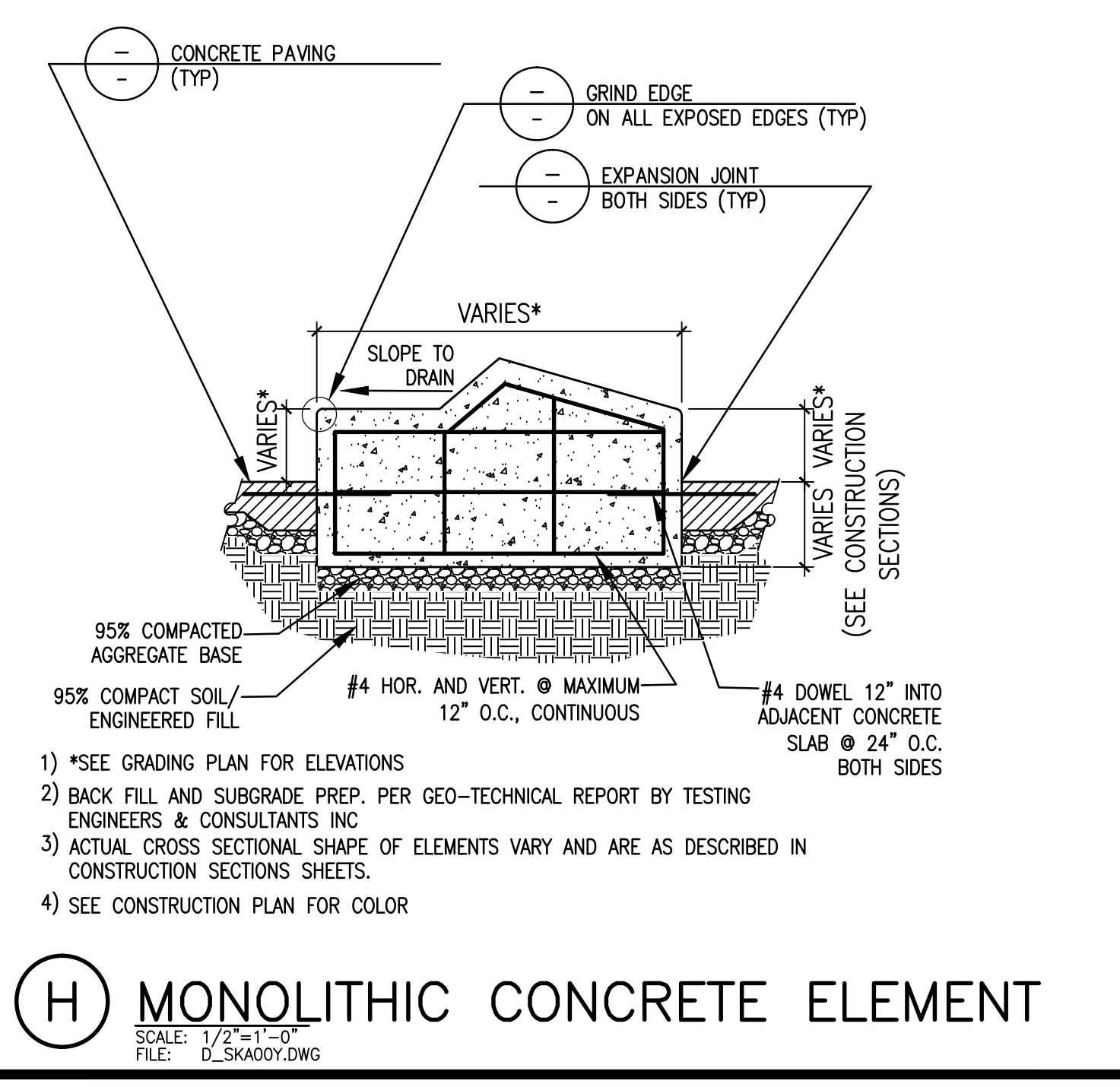
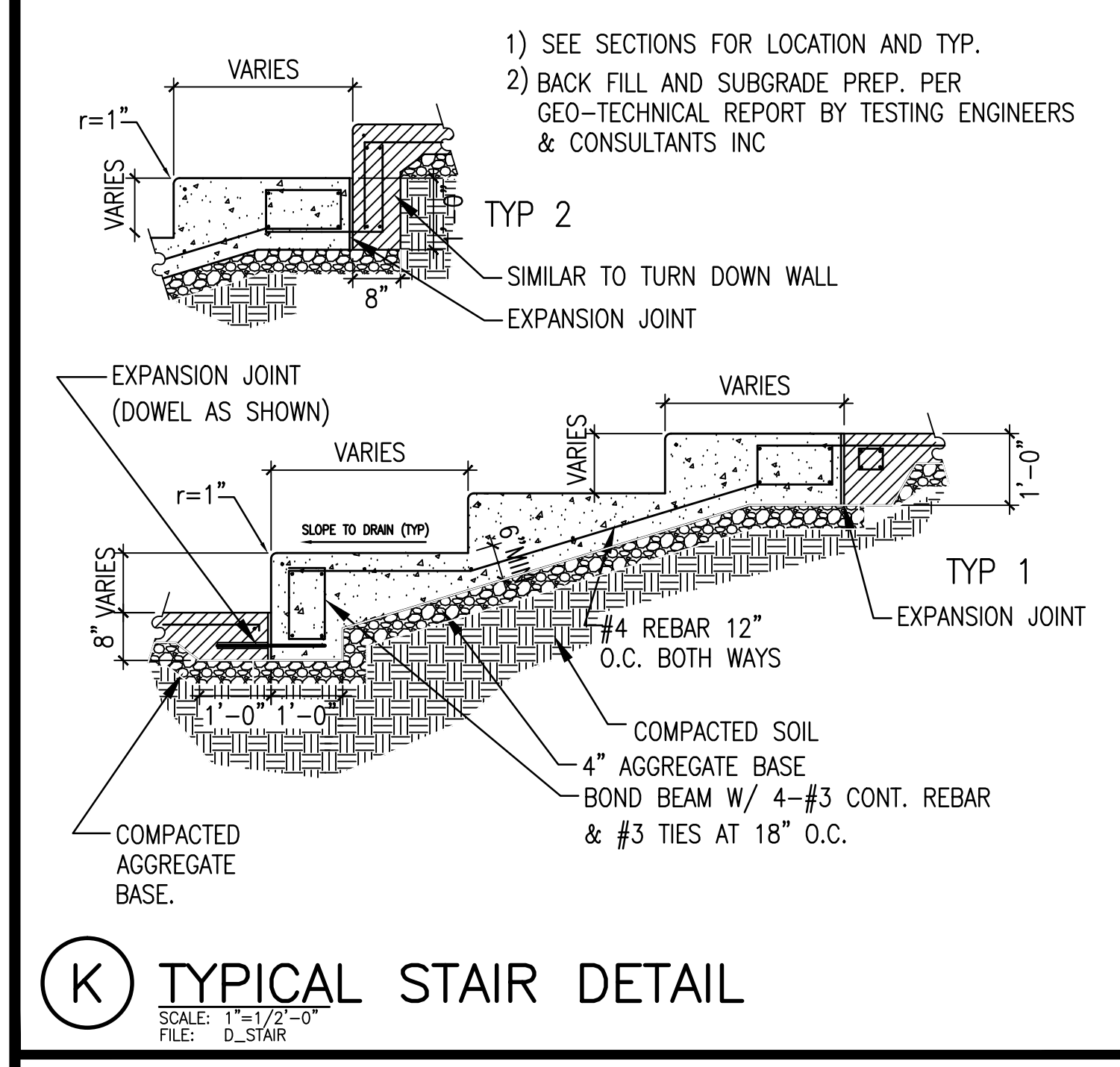
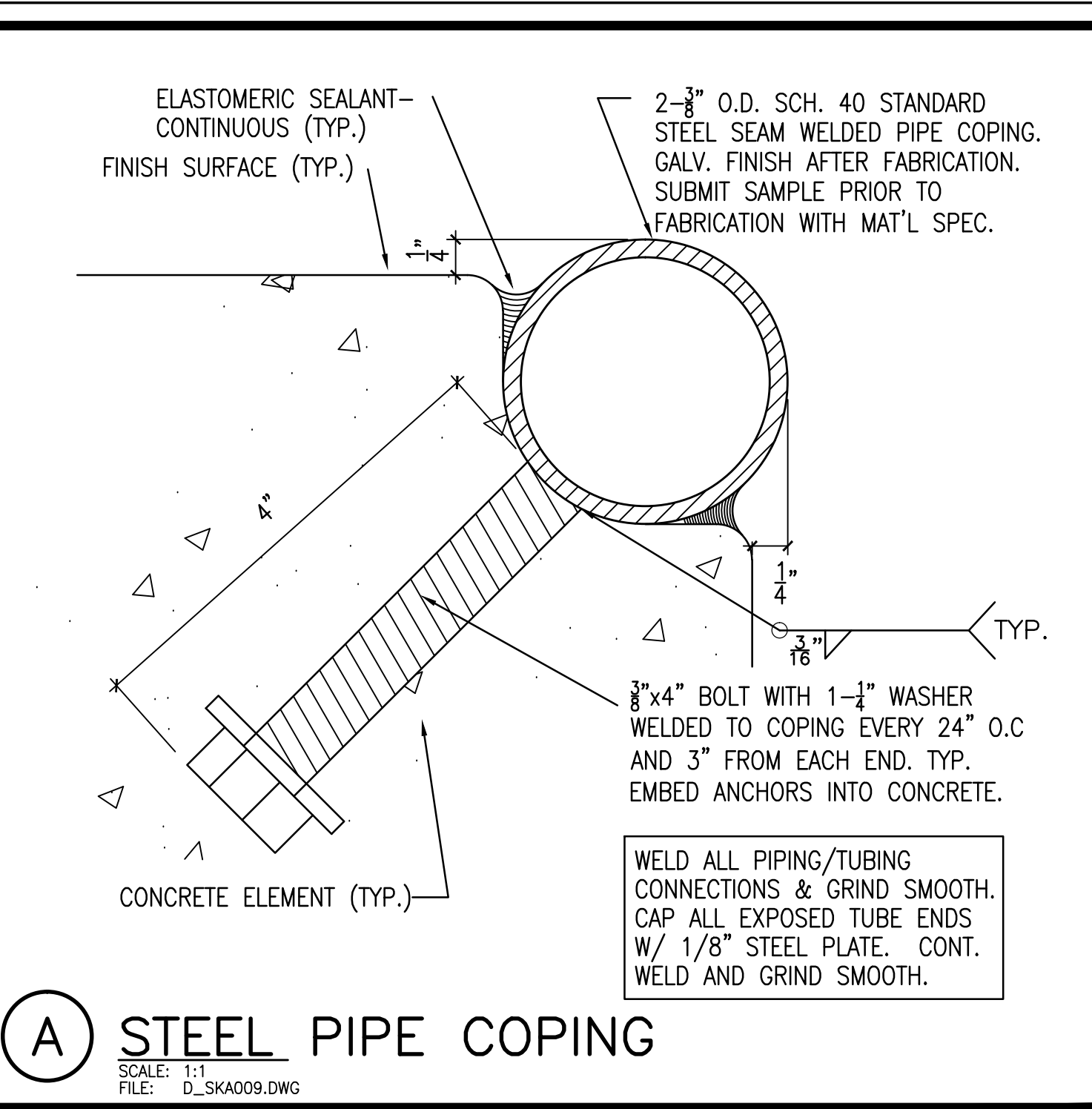
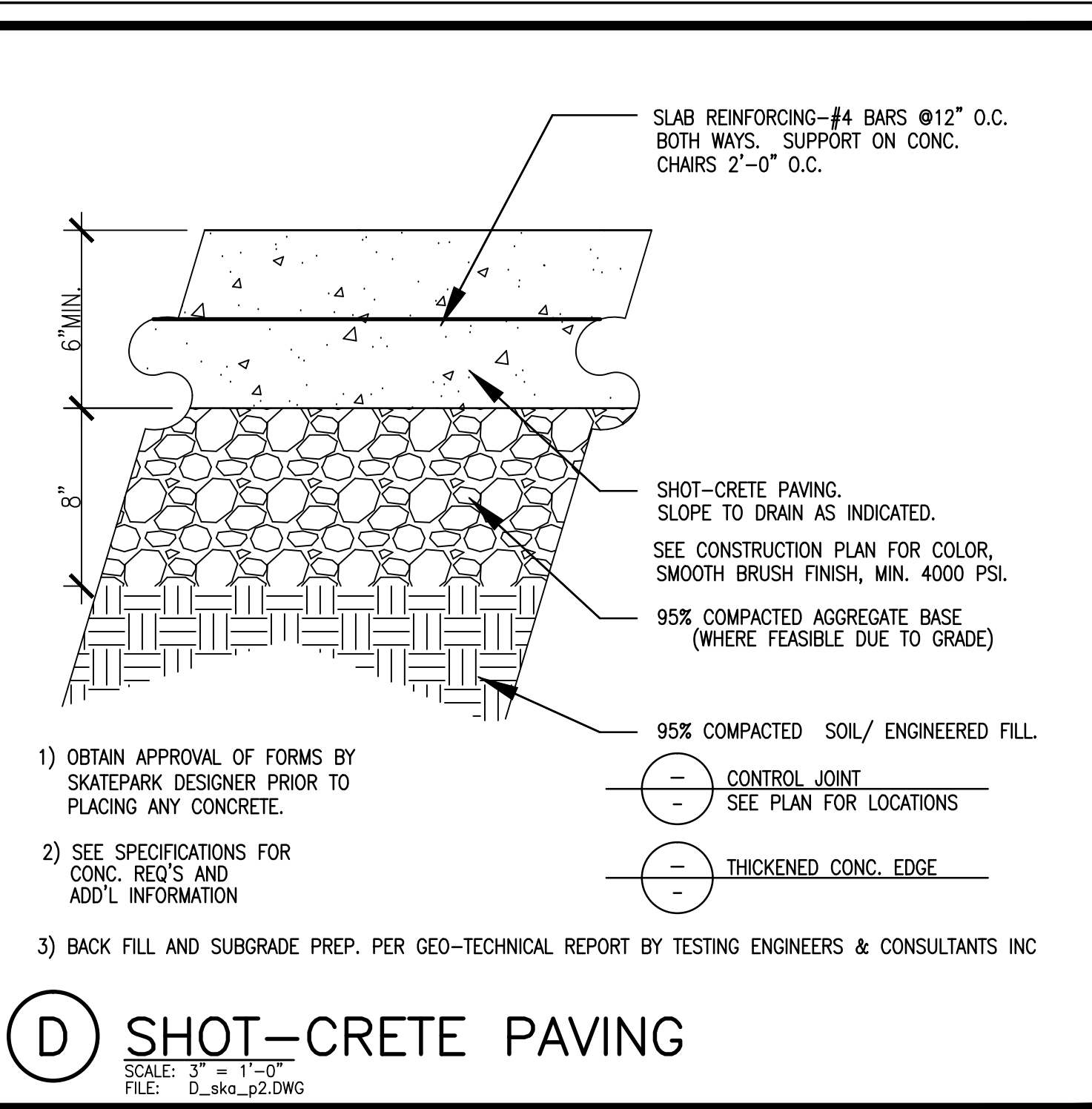
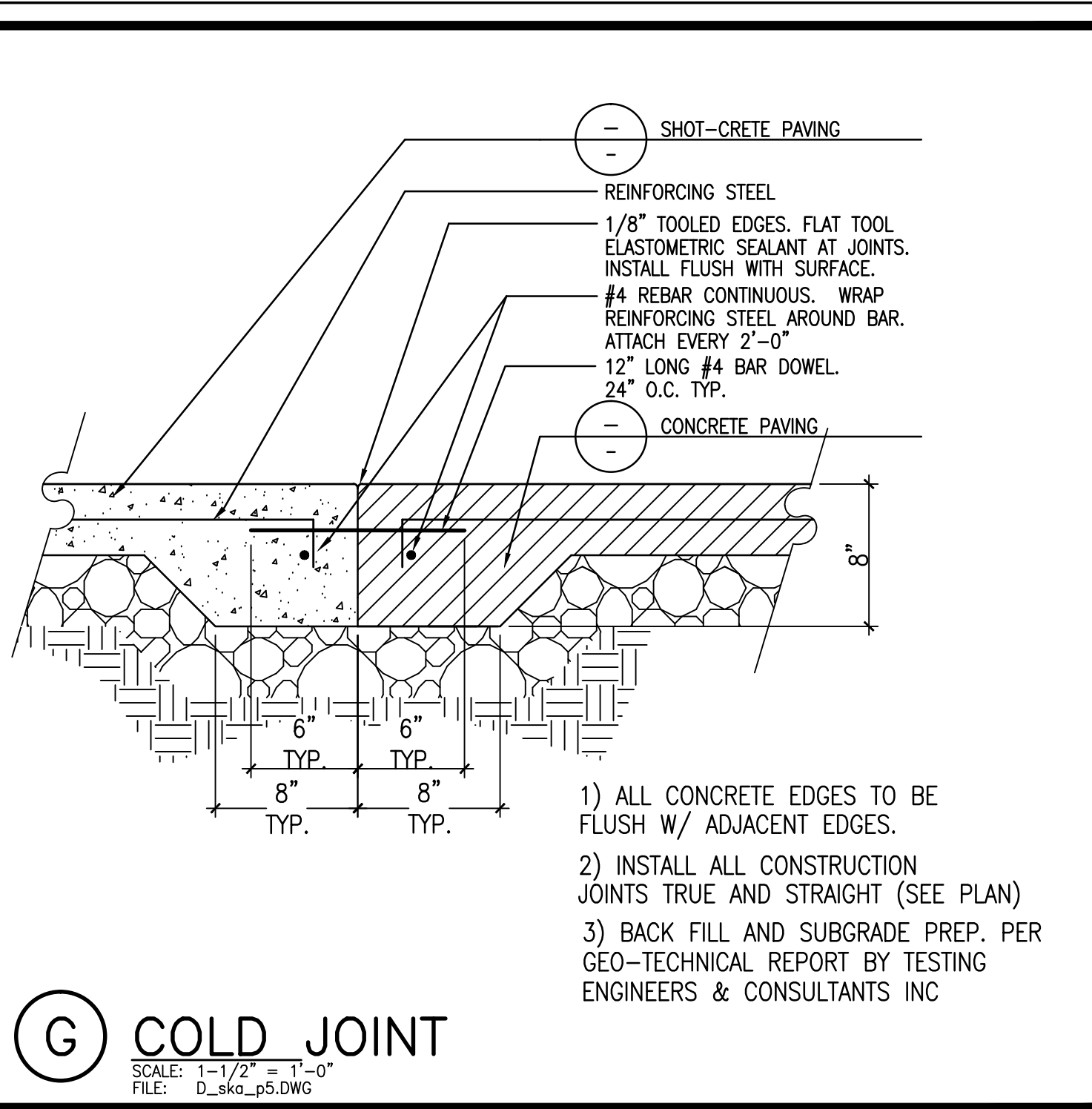
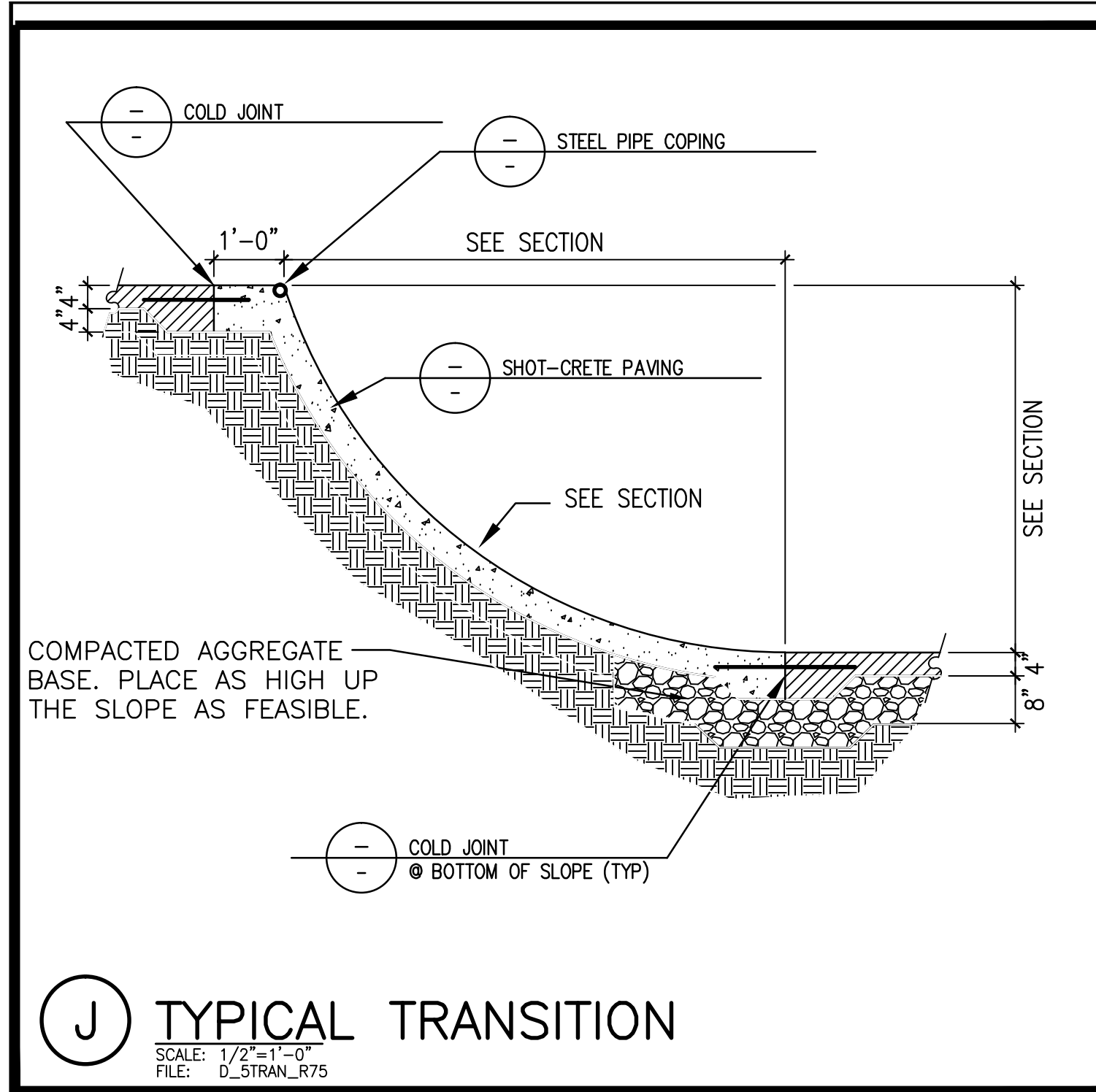
PROJECT: ANN ARBOR SKATEPARK
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION PLAN
SUBMITTAL: BID SET



JOB NO. CSD1150-12
DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: LC-102
13 OF 23 SHEETS





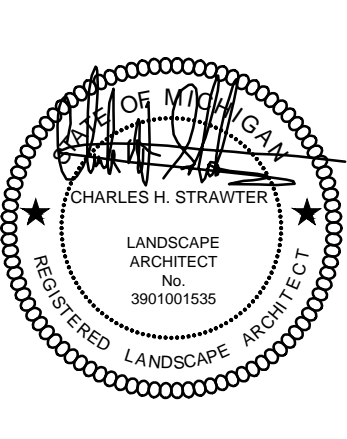
REVISIONS	BY
5/7/13	CHS

WALLY HOLLYDAY
Landscape Architect
18000 W. LANSING BLVD. SUITE 200
LANSING, MI 48219
www.wallyhollyday.com
stateofmichigan.com

CHARLES H. STRAWTER
LANDSCAPE ARCHITECT
No. 380300335
2150 JACKSON AVE., ANN ARBOR, MI 48106
A Registered Prof. Landscape Arch. P134

PROJECT: **ANN ARBOR SKATEPARK**
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

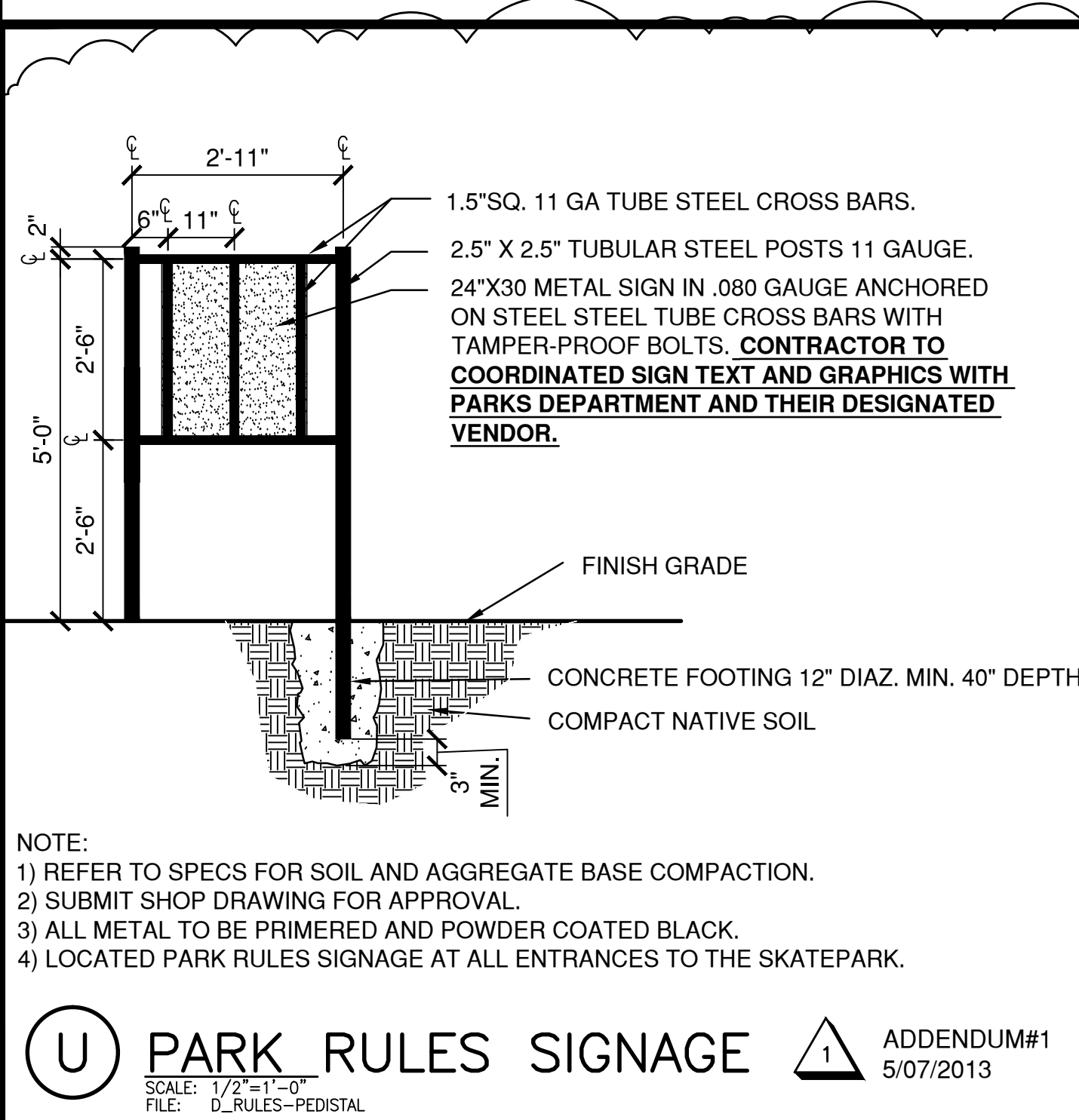
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SUBMITTAL: BID SET



CLARB CERTIFIED
LANDSCAPE ARCHITECT

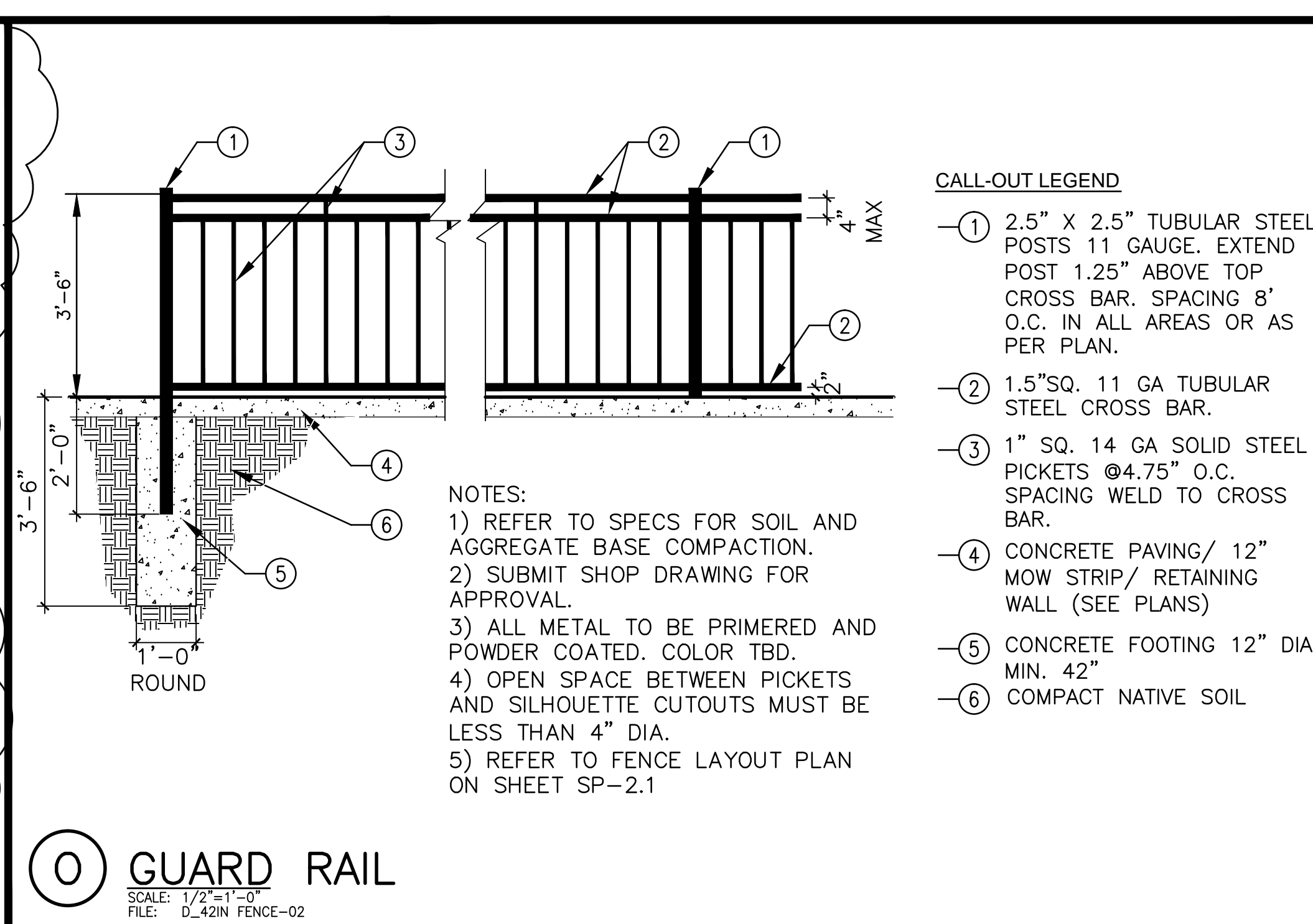
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DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: **LC-201**
14 OF 23 SHEETS

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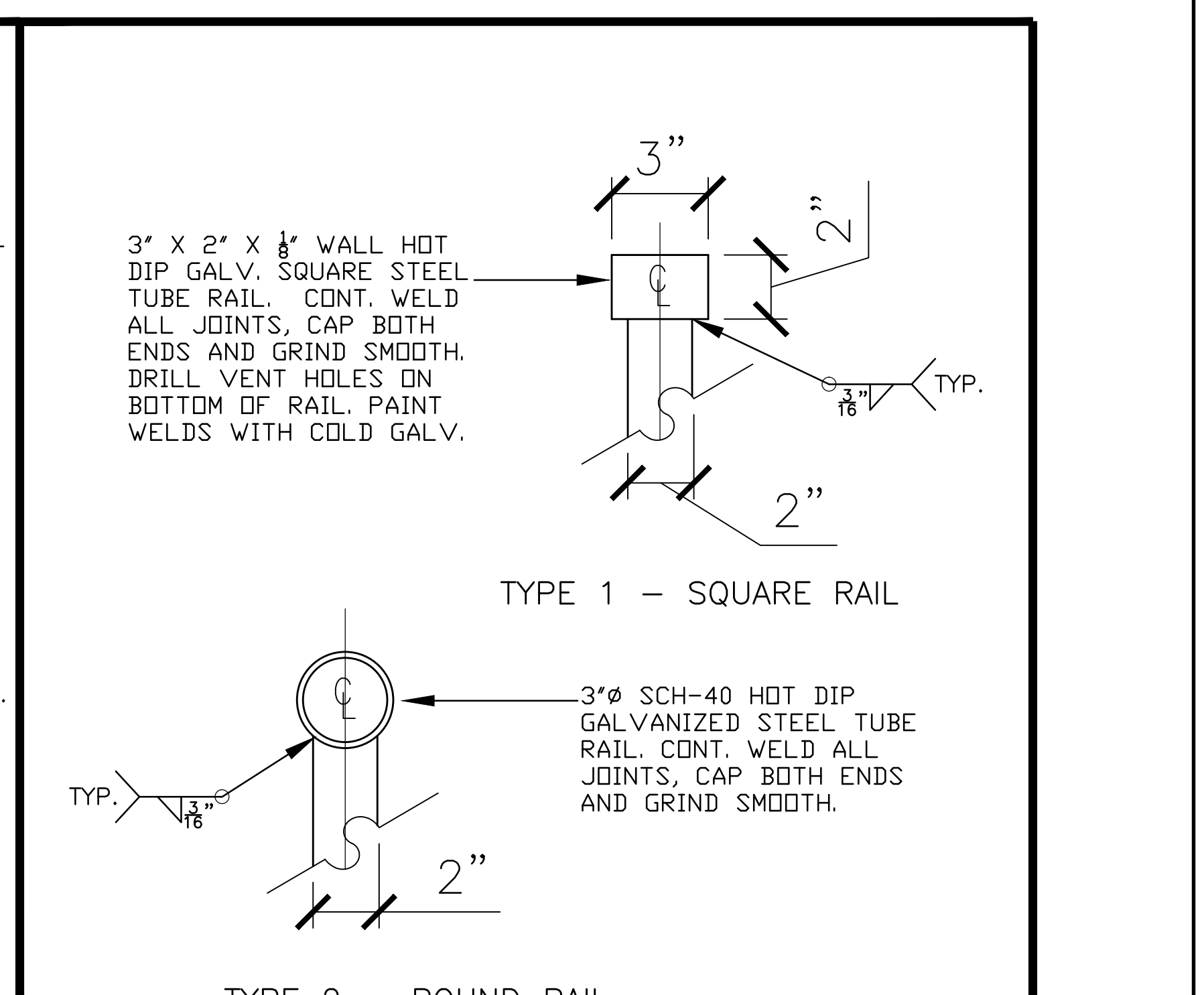


U PARK RULES SIGNAGE
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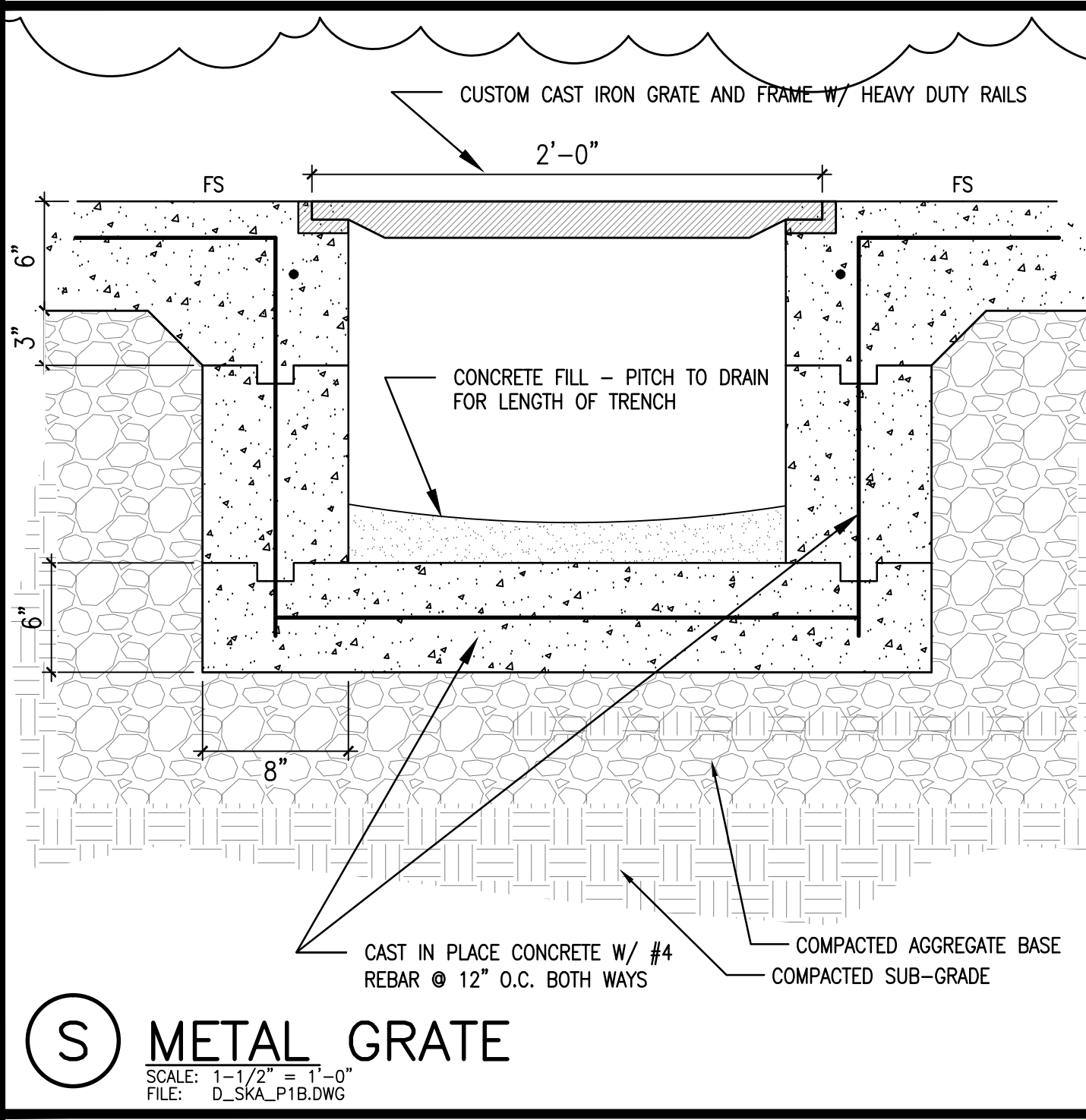
- PROPOSED TEXT FOR SKATEPARK RULES**
- This is a skate-at-your-own-risk, non supervised facility.
 - Protective equipment should be worn at all times. Use of this park may expose the user to serious injury including broken bones, brain damage, paralysis or death.
 - Inspect the skating surfaces before begin, and remove any trash, debris or objects that may prevent a smooth, safe ride. Do not skate if there is damage to the skating surface. Report any damage immediately to the Ann Arbor Parks & Recreation Customer Service Office, 734-794-6230.
 - Know your own ability and skate accordingly.
 - No skating when wet, raining, snowing, or during routine maintenance periods.
 - This is a non-accessible facility. Motorized vehicles are not permitted.
 - Additional ramps, jumps or obstacles are not permitted in the skate. No modifications to the skating surface or features are allowed (no wax).
 - Skate hours of operation: ?
 - Park use is allowed only during posted park hours.
 - No food, beverages or glass containers are allowed in the skate.
 - This is a smoke/ alcohol/ drug free recreation area.
 - No skating in the parking lot or on parking lot curbs.
 - No pets allowed in the skate.
 - Park users are expected to be polite and courteous at all times.
 - Failure to adhere to skate and park regulations can result in loss of facility privileges and/or citation.



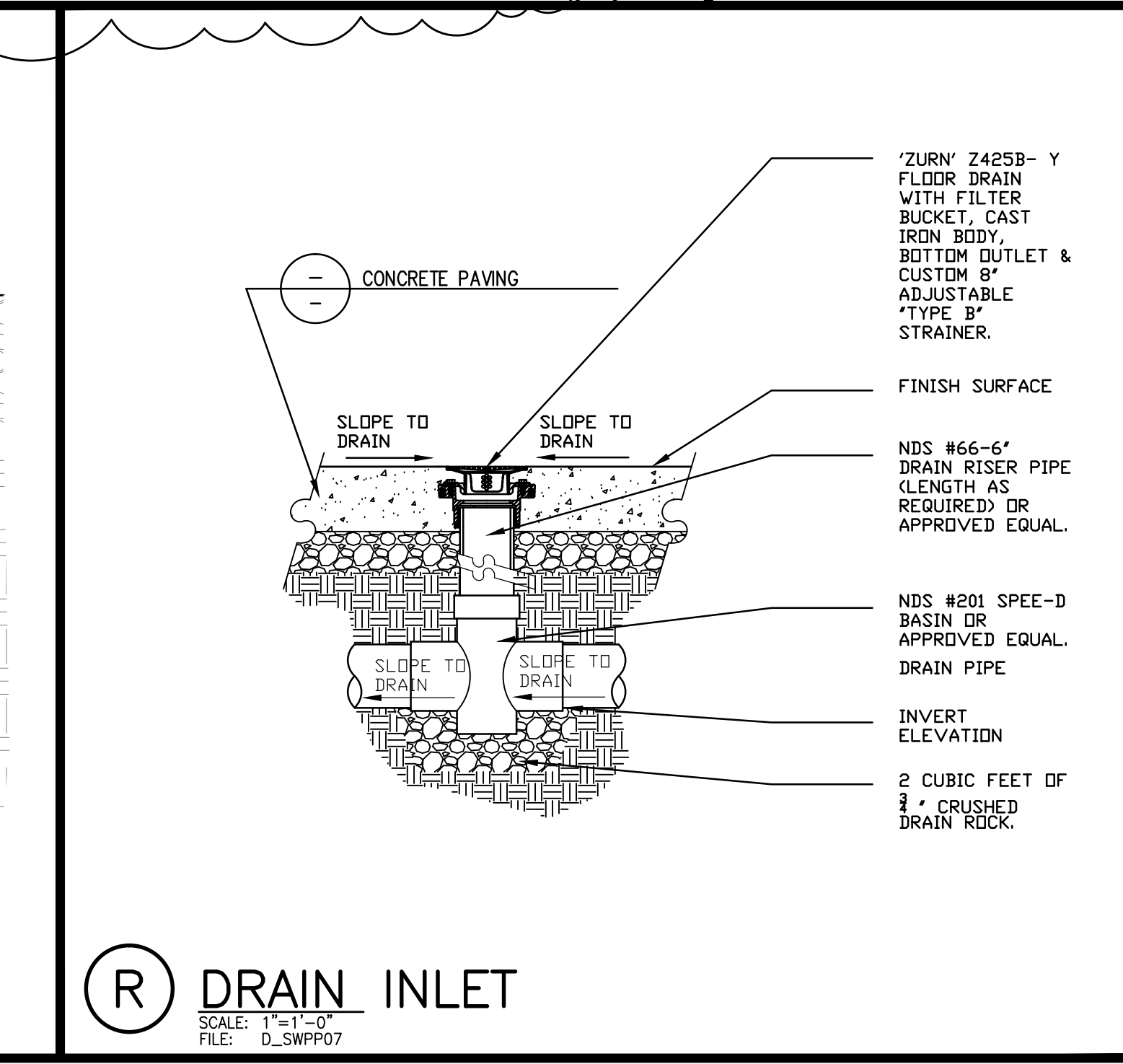
O GUARD RAIL
SCALE: 1/2"=1'-0"
FILE: D_42IN FENCE-02



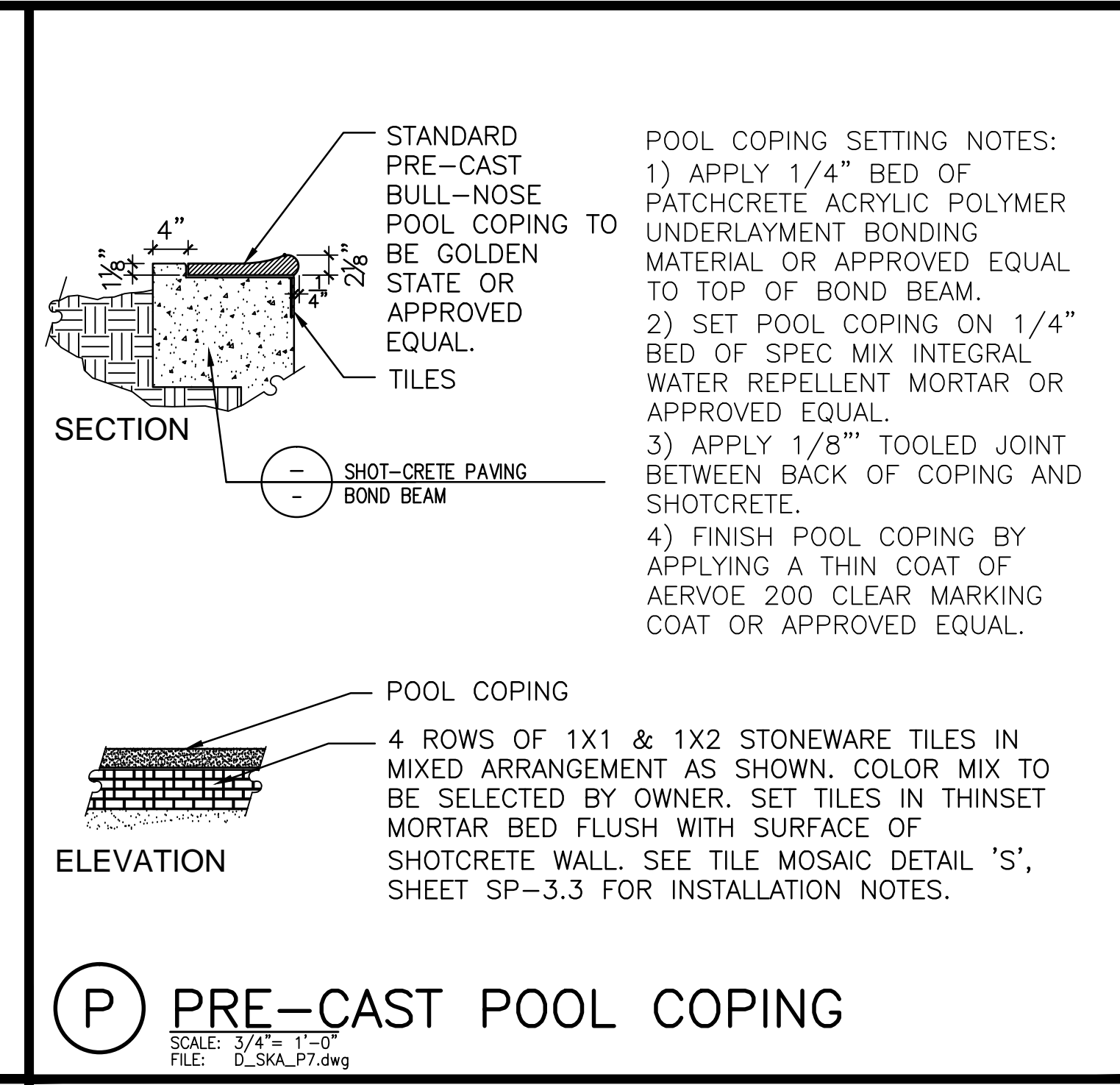
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SCALE: N.T.S.
FILE: D_RAIL



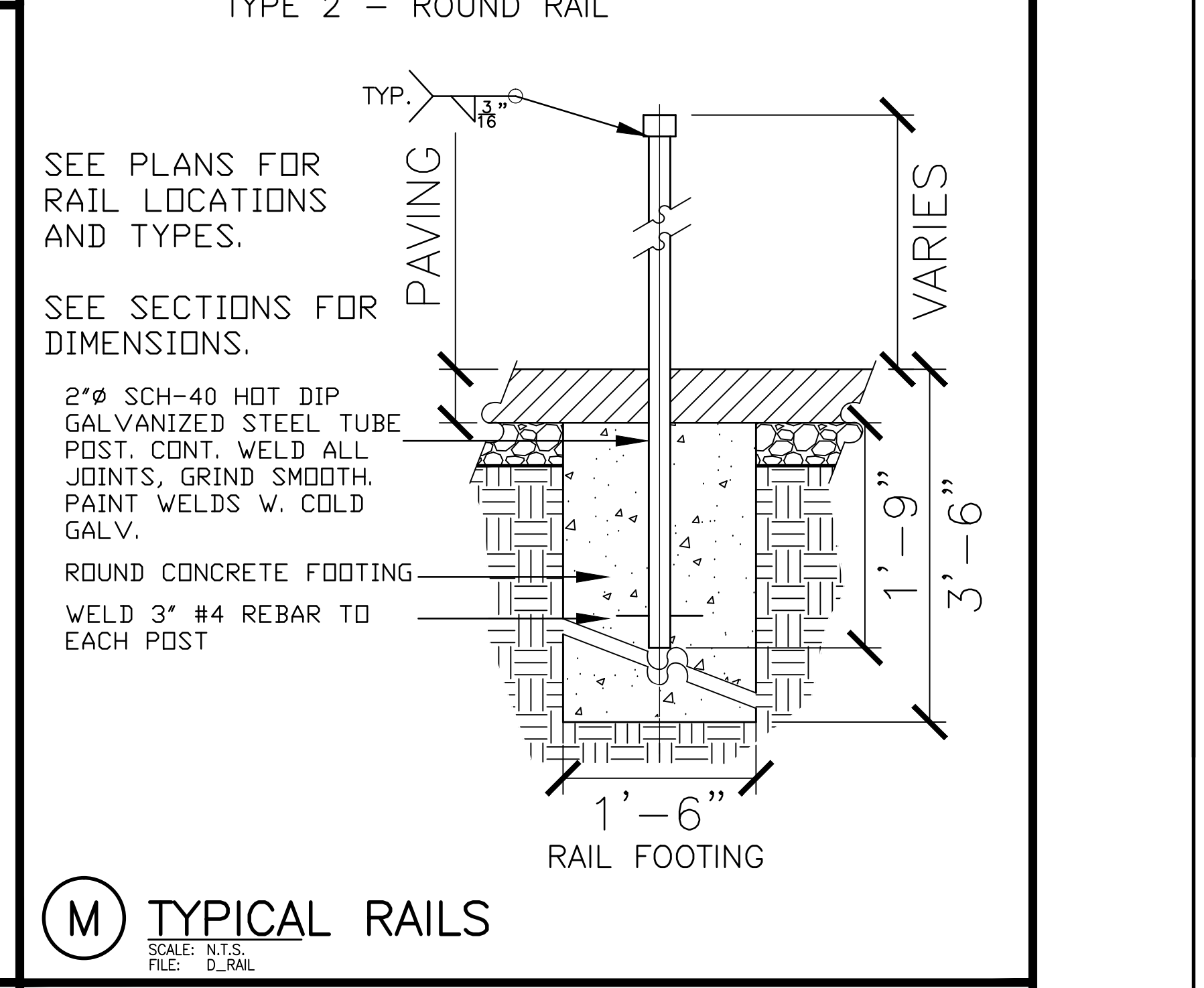
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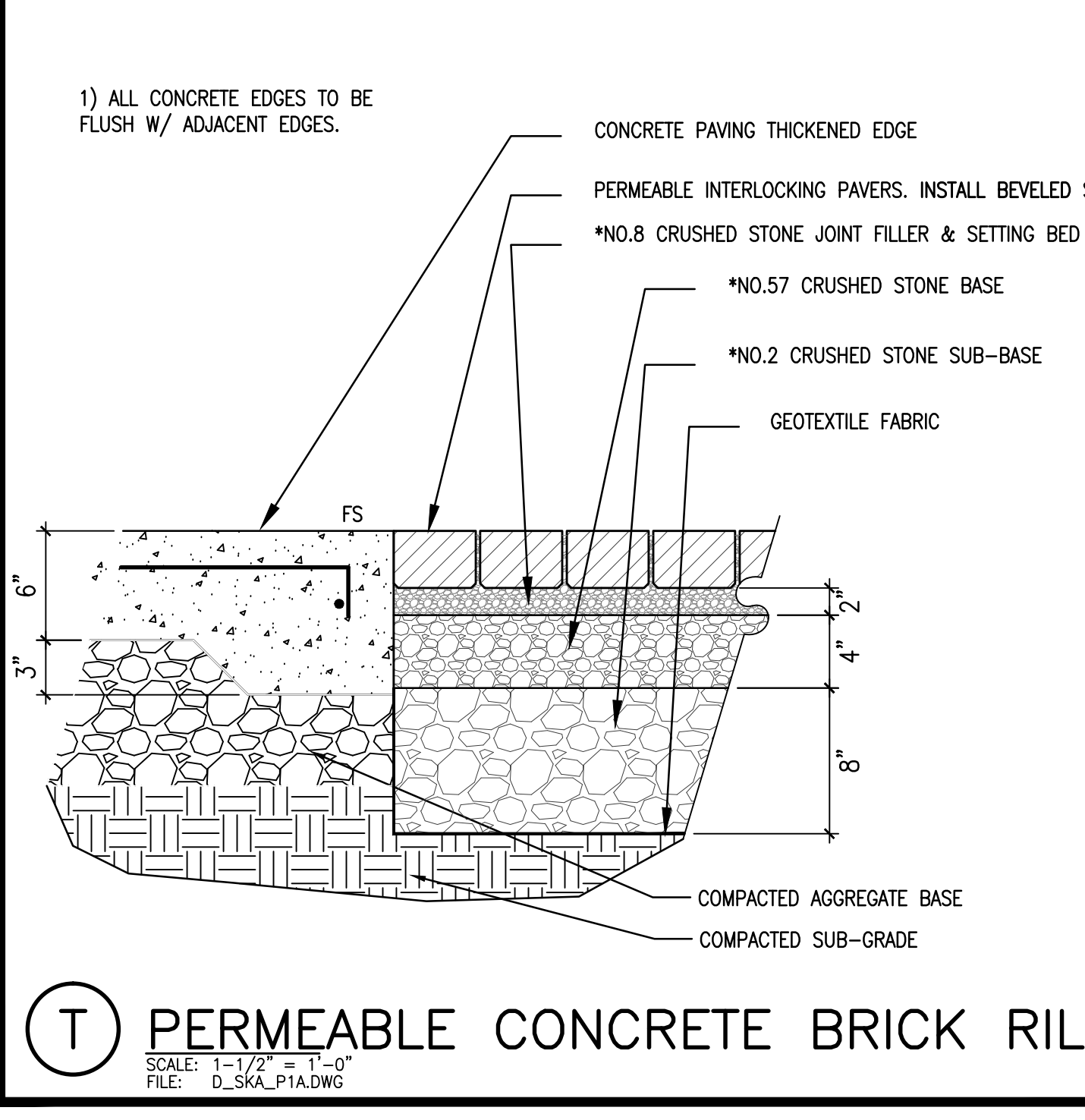
R DRAIN INLET
SCALE: 1"=1'-0"
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P PRE-CAST POOL COPING
SCALE: 3/4"=1'-0"
FILE: D_SKA_P7.DWG



N TYPICAL EMBANKMENT
SCALE: 3/4"=1'-0"
FILE: D_SKA_P11



T PERMEABLE CONCRETE BRICK RILL
SCALE: 1-1/2"=1'-0"
FILE: D_SKA_P1A.DWG

CRUSHED STONE GRADING REQUIREMENTS

Table 1
ASTM No. 8 Grading Requirements
Bedding and Joint/Opening Filler

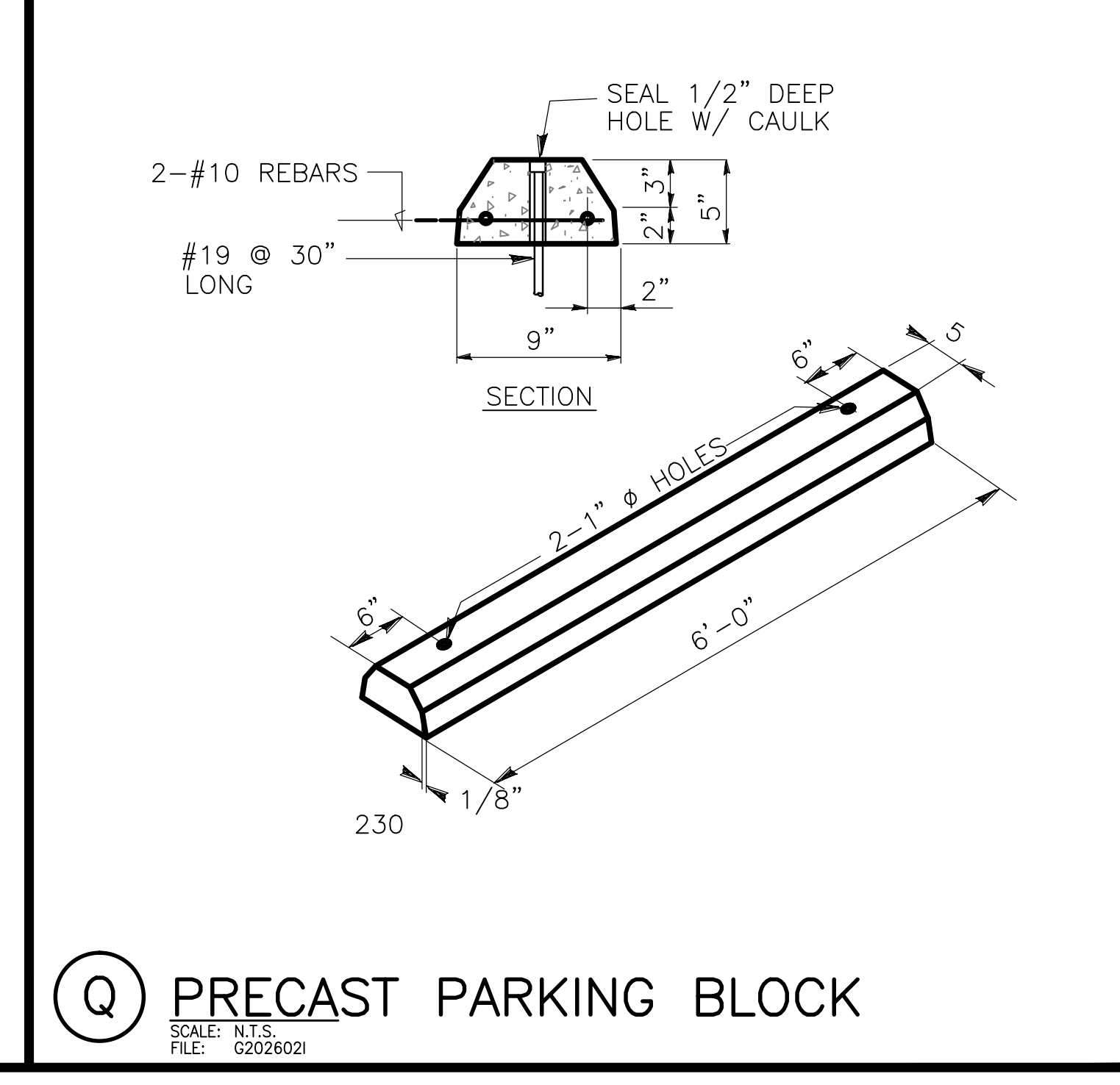
Sieve Size	Percent Passing
12.5 mm (1/2 in.)	100
9.5 mm (3/8 in.)	85 to 100
4.75 mm (No. 4)	10 to 30
2.36 mm (No. 8)	0 to 10
1.16 mm (No. 16)	0 to 5

Table 2
ASTM No. 57 Base
Grading Requirements

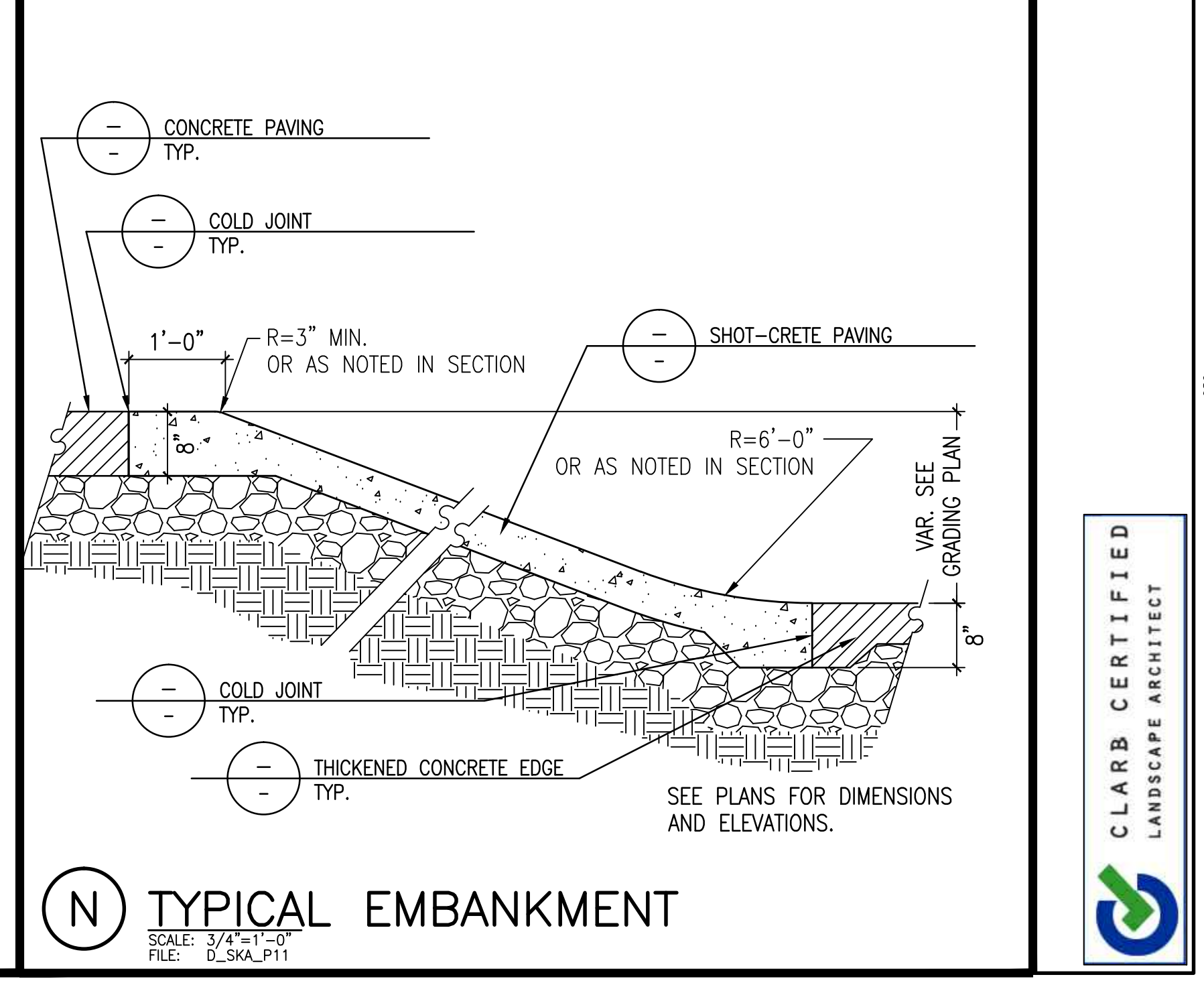
Sieve Size	Percent Passing
37.5 mm (1 1/2 in.)	100
25 mm (1 in.)	95 to 100
12.5 mm (1/2 in.)	25 to 60
4.75 mm (No. 4)	0 to 10
2.36 mm (No. 8)	0 to 5

Table 3
Grading Requirement for ASTM No. 2 Subbase

Sieve Size	Percent Passing
75 mm (3 in.)	100
63 mm (2 1/2 in.)	90 to 100
50 mm (2 in.)	35 to 70
37.5 mm (1 1/2 in.)	0 to 15
19 mm (3/4 in.)	0 to 5



Q PRECAST PARKING BLOCK
SCALE: N.T.S.
FILE: G2026021



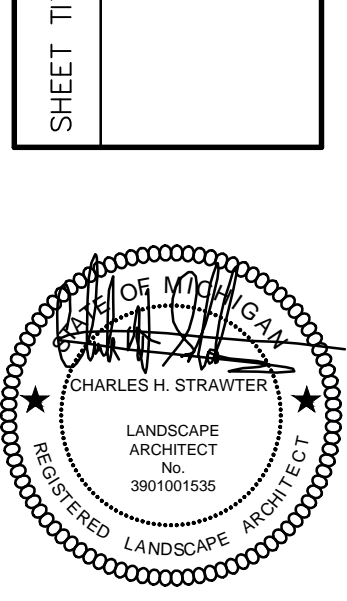
N TYPICAL EMBANKMENT
SCALE: 3/4"=1'-0"
FILE: D_SKA_P11

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5/7/13	CHS

WALLY HOLLYDAY DESIGN
LANDSCAPE ARCHITECT
10000 W. GRAND AVENUE, SUITE 100
ANN ARBOR, MI 48106
TEL: 734.769.1111
WWW.WALLYDESIGN.COM

PROJECT: **ANN ARBOR SKATEPARK**
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

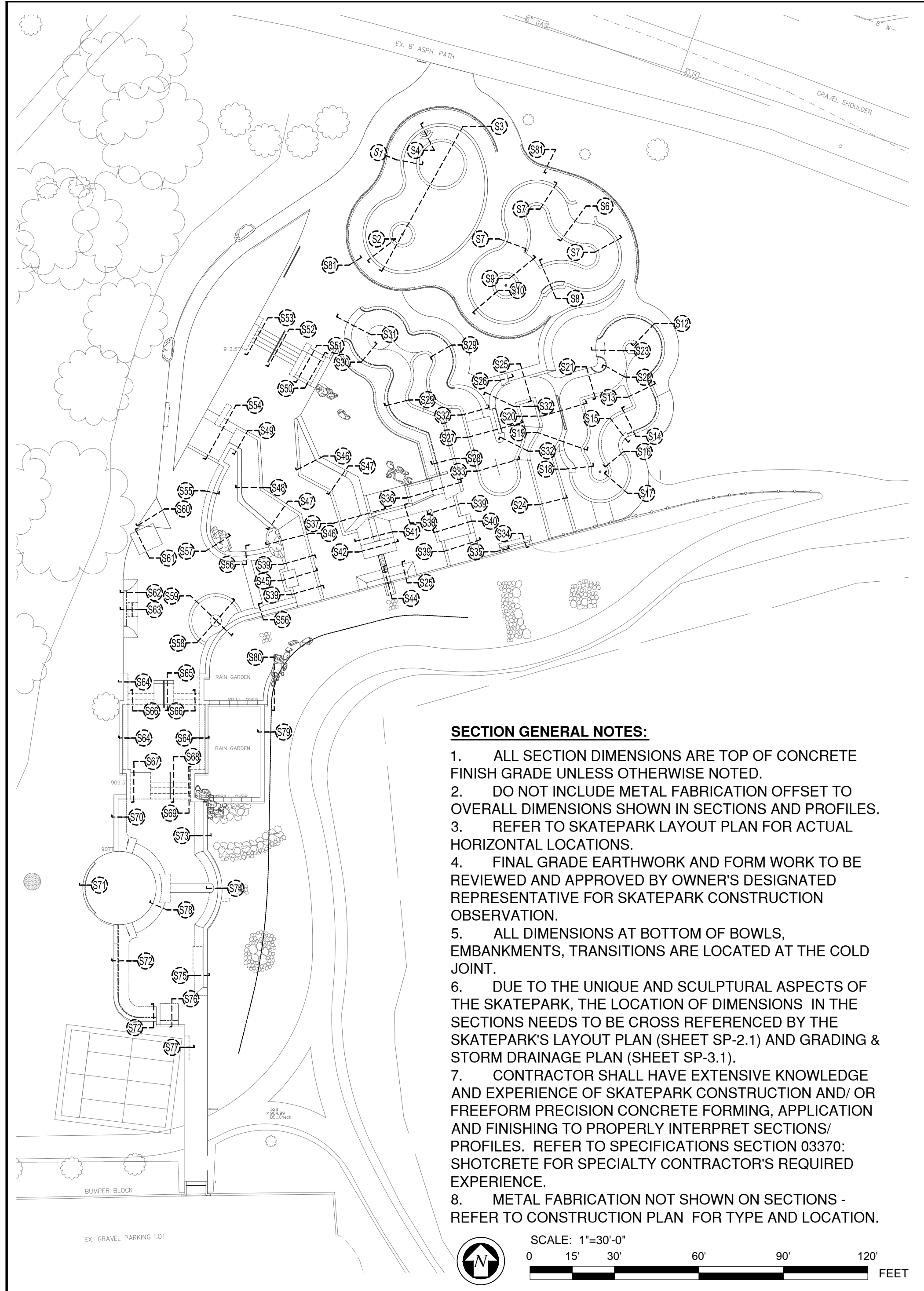
SHEET TITLE: CONSTRUCTION DETAILS
SUBMITTAL: BID SET



CLARB CERTIFIED LANDSCAPE ARCHITECT

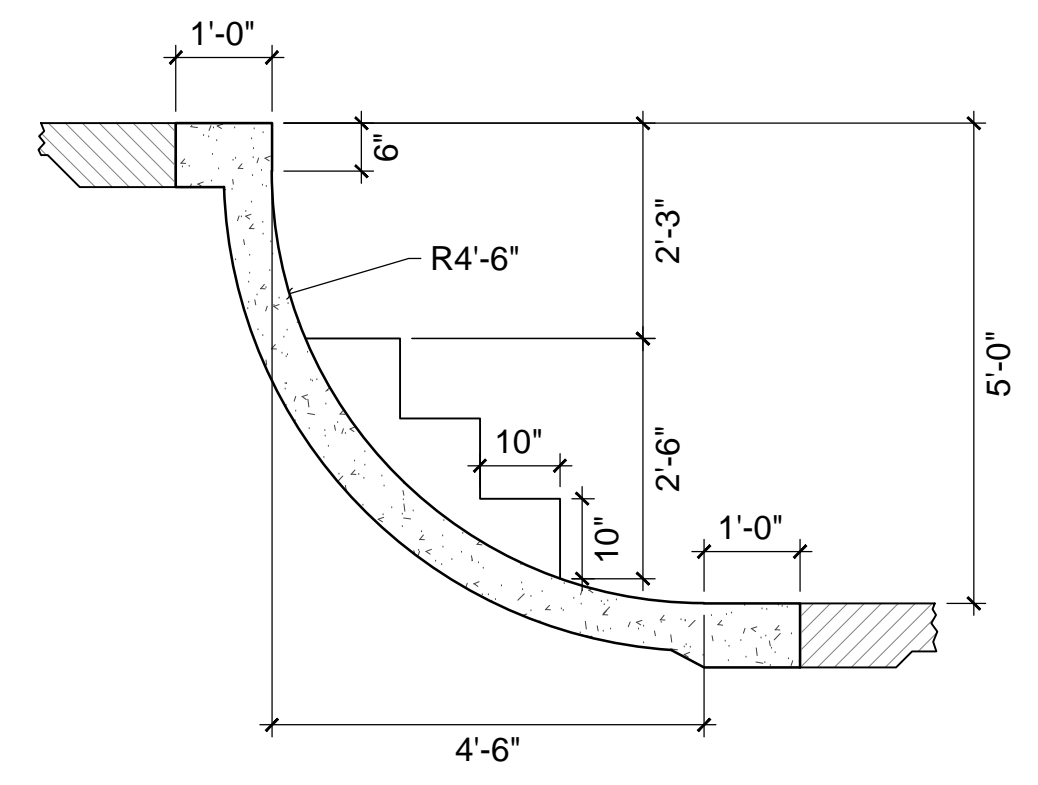
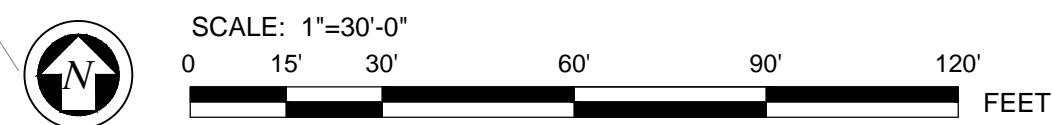
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DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: **LC-202**
15 OF 23 SHEETS

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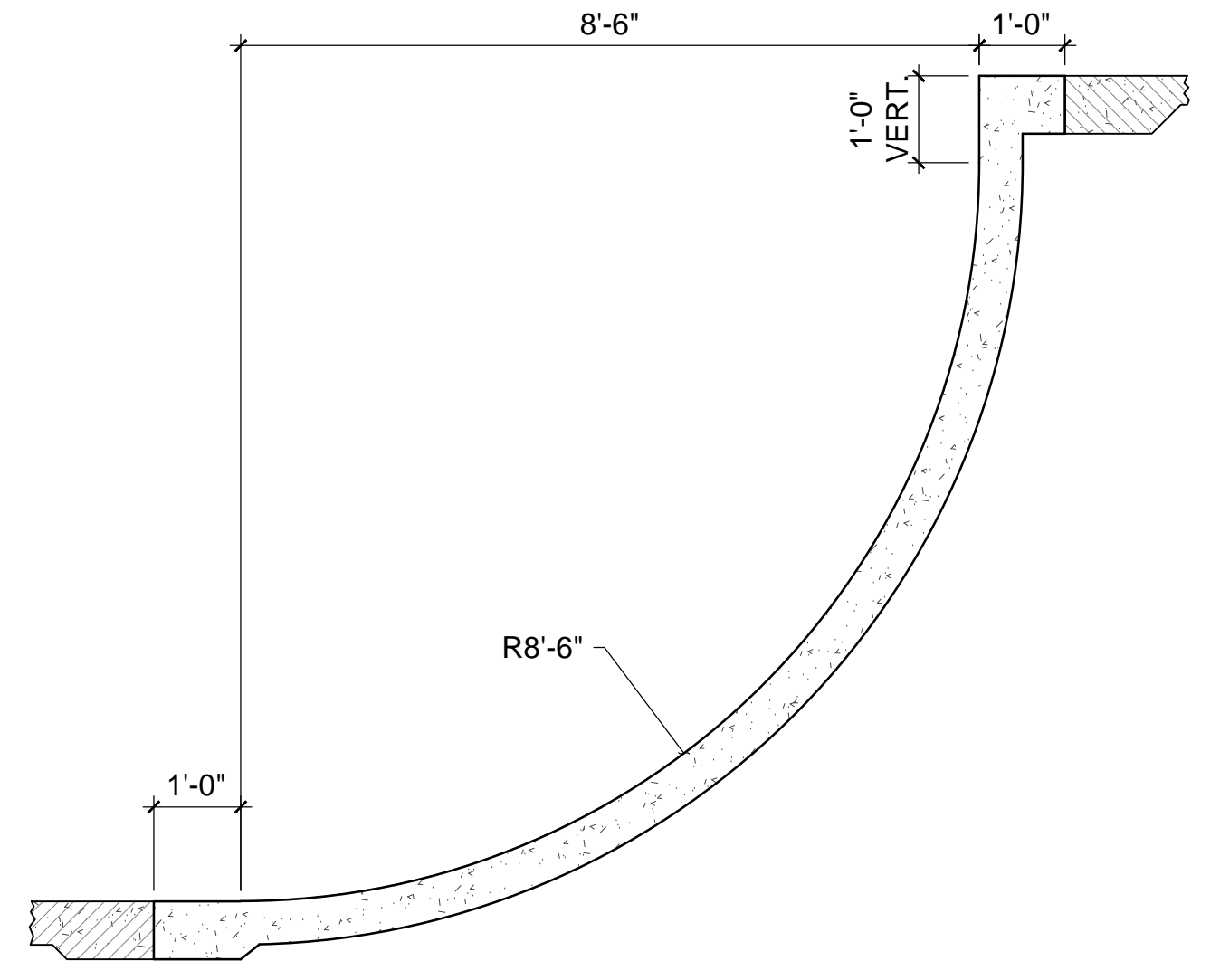


SECTION GENERAL NOTES:

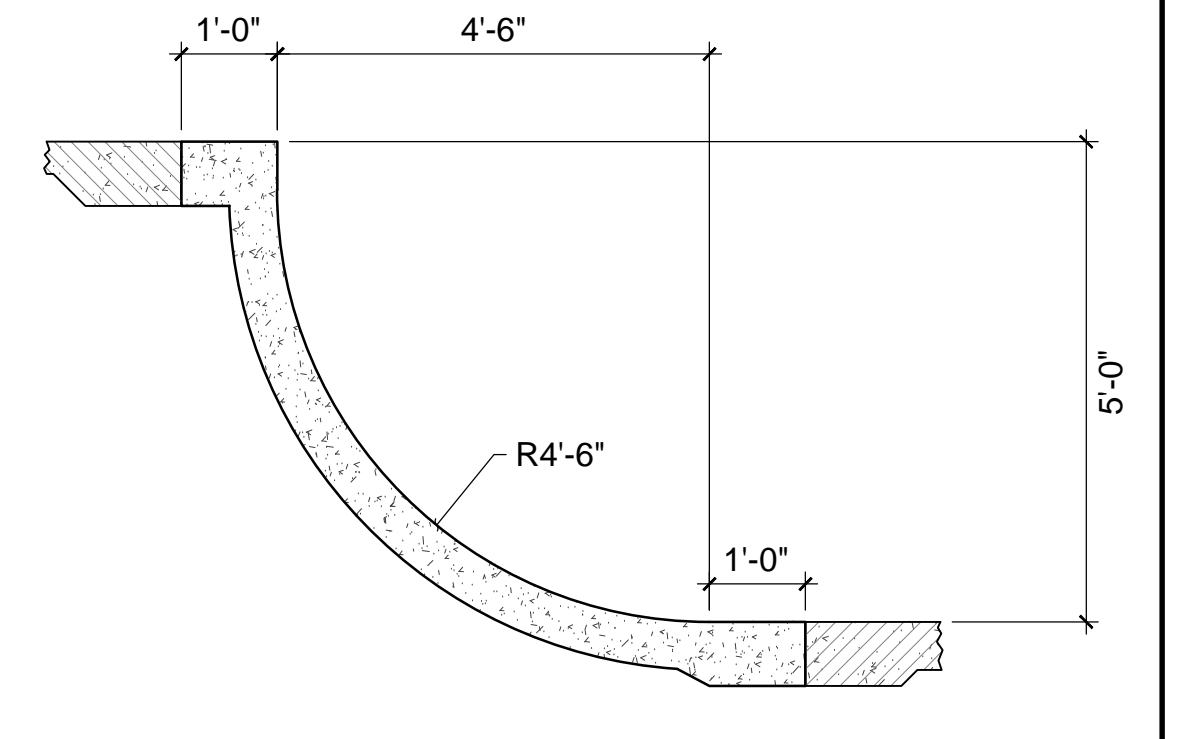
1. ALL SECTION DIMENSIONS ARE TOP OF CONCRETE FINISH GRADE UNLESS OTHERWISE NOTED.
2. DO NOT INCLUDE METAL FABRICATION OFFSET TO OVERALL DIMENSIONS SHOWN IN SECTIONS AND PROFILES.
3. REFER TO SKATEPARK LAYOUT PLAN FOR ACTUAL HORIZONTAL LOCATIONS.
4. FINAL GRADE EARTHWORK AND FORM WORK TO BE REVIEWED AND APPROVED BY OWNER'S DESIGNATED REPRESENTATIVE FOR SKATEPARK CONSTRUCTION OBSERVATION.
5. ALL DIMENSIONS AT BOTTOM OF BOWLS, EMBANKMENTS, TRANSITIONS ARE LOCATED AT THE COLD JOINT.
6. DUE TO THE UNIQUE AND SCULPTURAL ASPECTS OF THE SKATEPARK, THE LOCATION OF DIMENSIONS IN THE SECTIONS NEEDS TO BE CROSS REFERENCED BY THE SKATEPARK'S LAYOUT PLAN (SHEET SP-2.1) AND GRADING & STORM DRAINAGE PLAN (SHEET SP-3.1).
7. CONTRACTOR SHALL HAVE EXTENSIVE KNOWLEDGE AND EXPERIENCE OF SKATEPARK CONSTRUCTION AND/OR FREEFORM PRECISION CONCRETE FORMING, APPLICATION AND FINISHING TO PROPERLY INTERPRET SECTIONS/PROFILES. REFER TO SPECIFICATIONS SECTION 03370: SHOTCRETE FOR SPECIALTY CONTRACTOR'S REQUIRED EXPERIENCE.
8. METAL FABRICATION NOT SHOWN ON SECTIONS - REFER TO CONSTRUCTION PLAN FOR TYPE AND LOCATION.



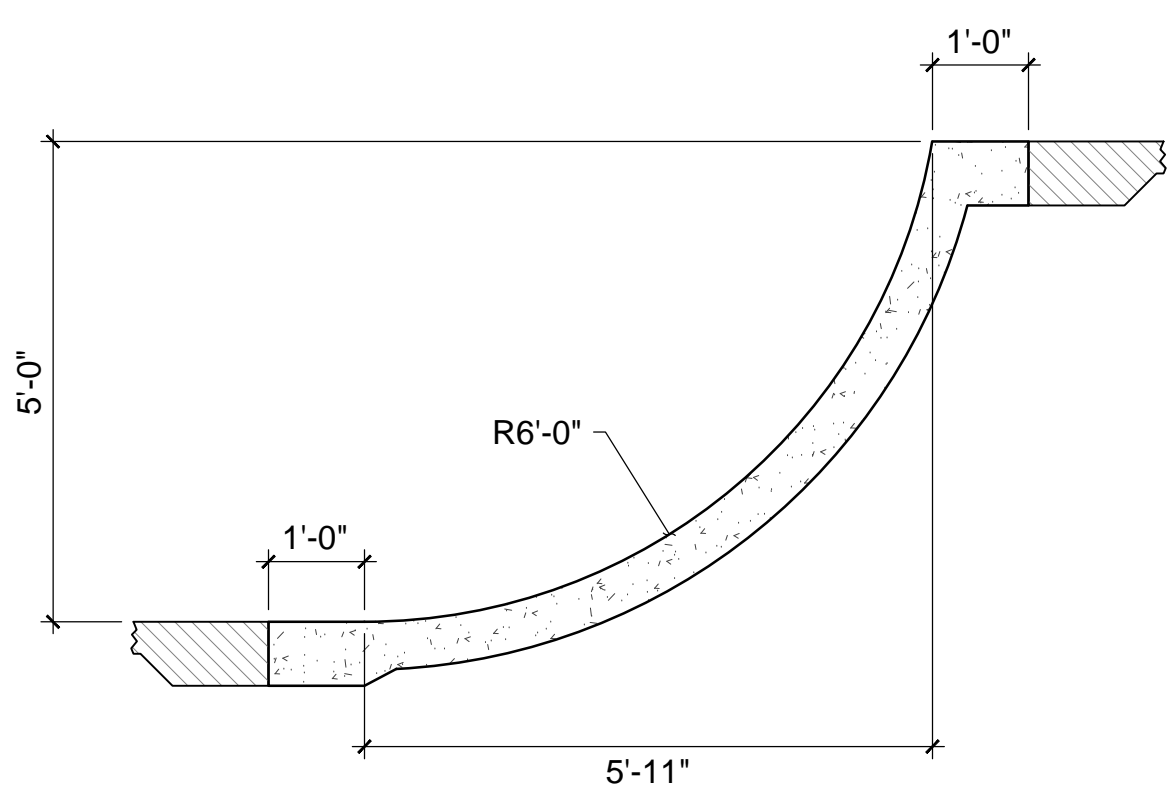
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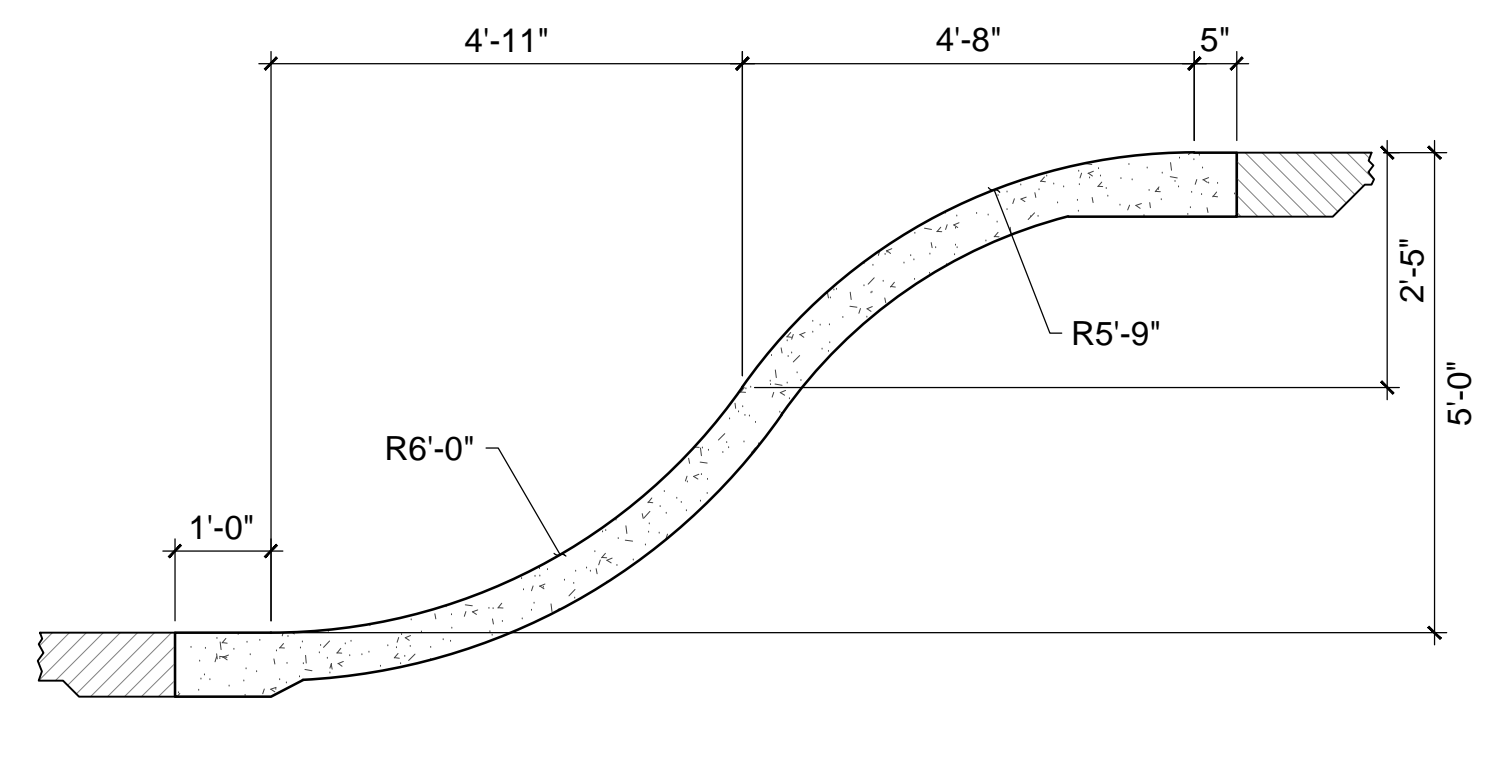
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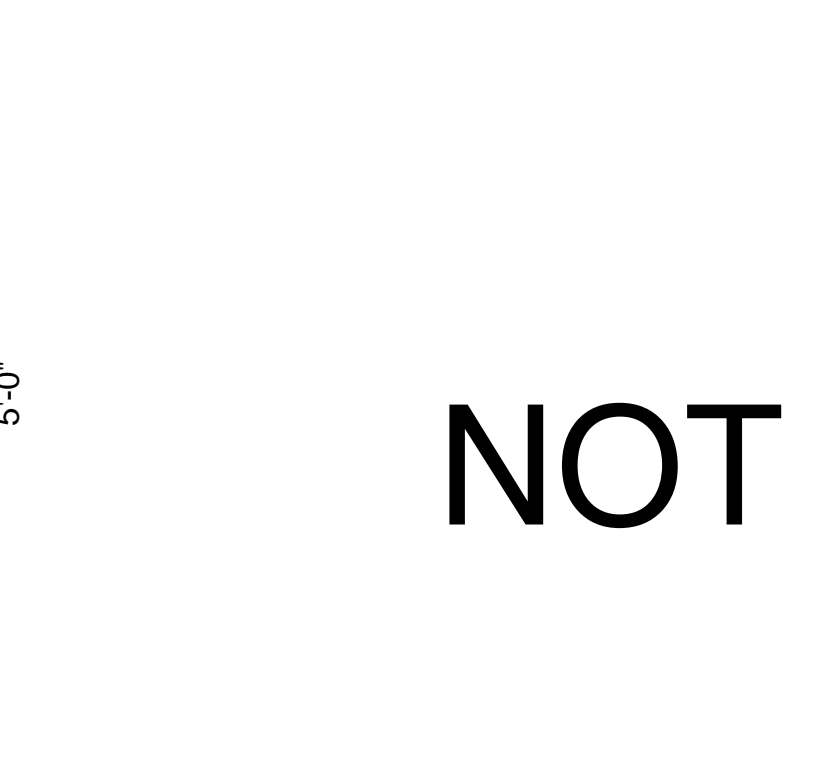
S1 SECTION
1/2"=1'-0"



S7 SECTION
1/2"=1'-0"

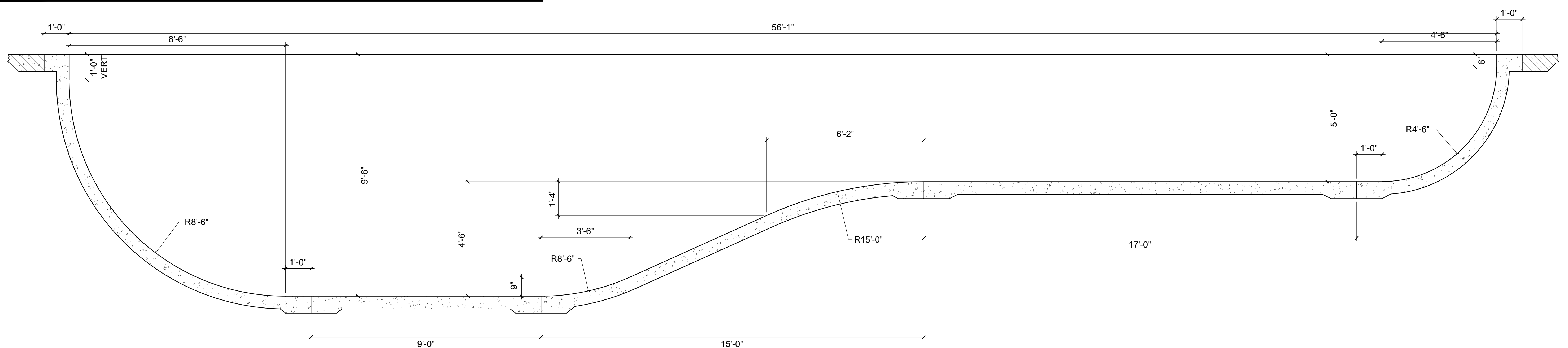


S6 SECTION
1/2"=1'-0"



S5 SECTION
1/2"=1'-0"

NOT USED



S3 SECTION
1/2"=1'-0"

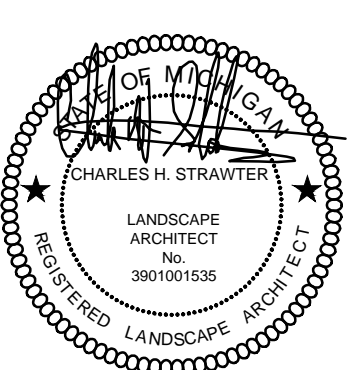
REVISIONS	BY
5/7/13	CHS

WALLY HOLLYDAY
Landscape Architect
skateparkdesign.com

CHARLES H. STRAWTER, D. ARCH.
Landscape Architect
2150 JACKSON AVE., ANN ARBOR, MI 48106
734.769.1234
A Registered Prof. Landscape Arch. #1314

PROJECT: **ANN ARBOR SKATEPARK**
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

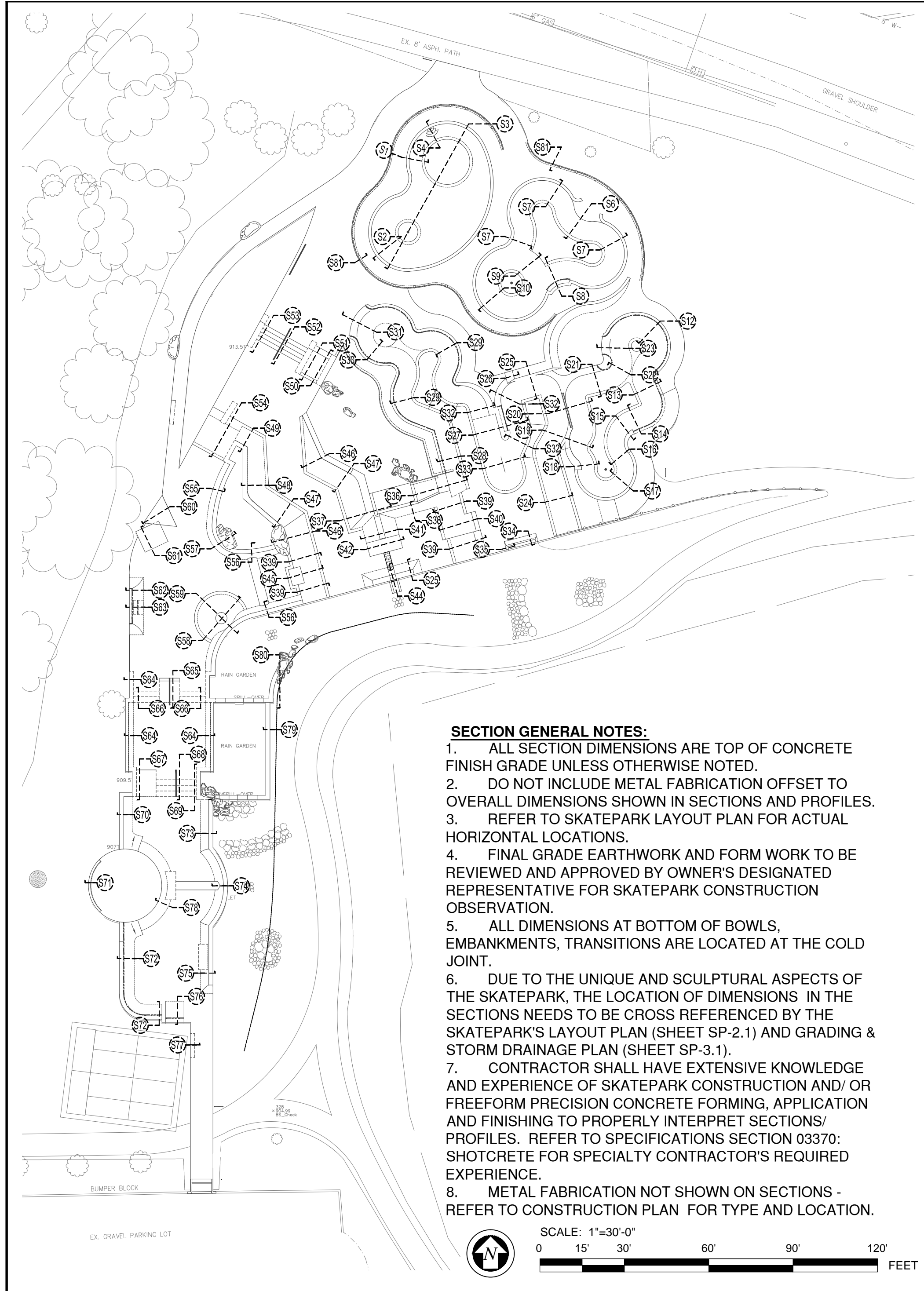
SHEET TITLE: CONSTRUCTION SECTIONS
SUBMITTAL: BID SET



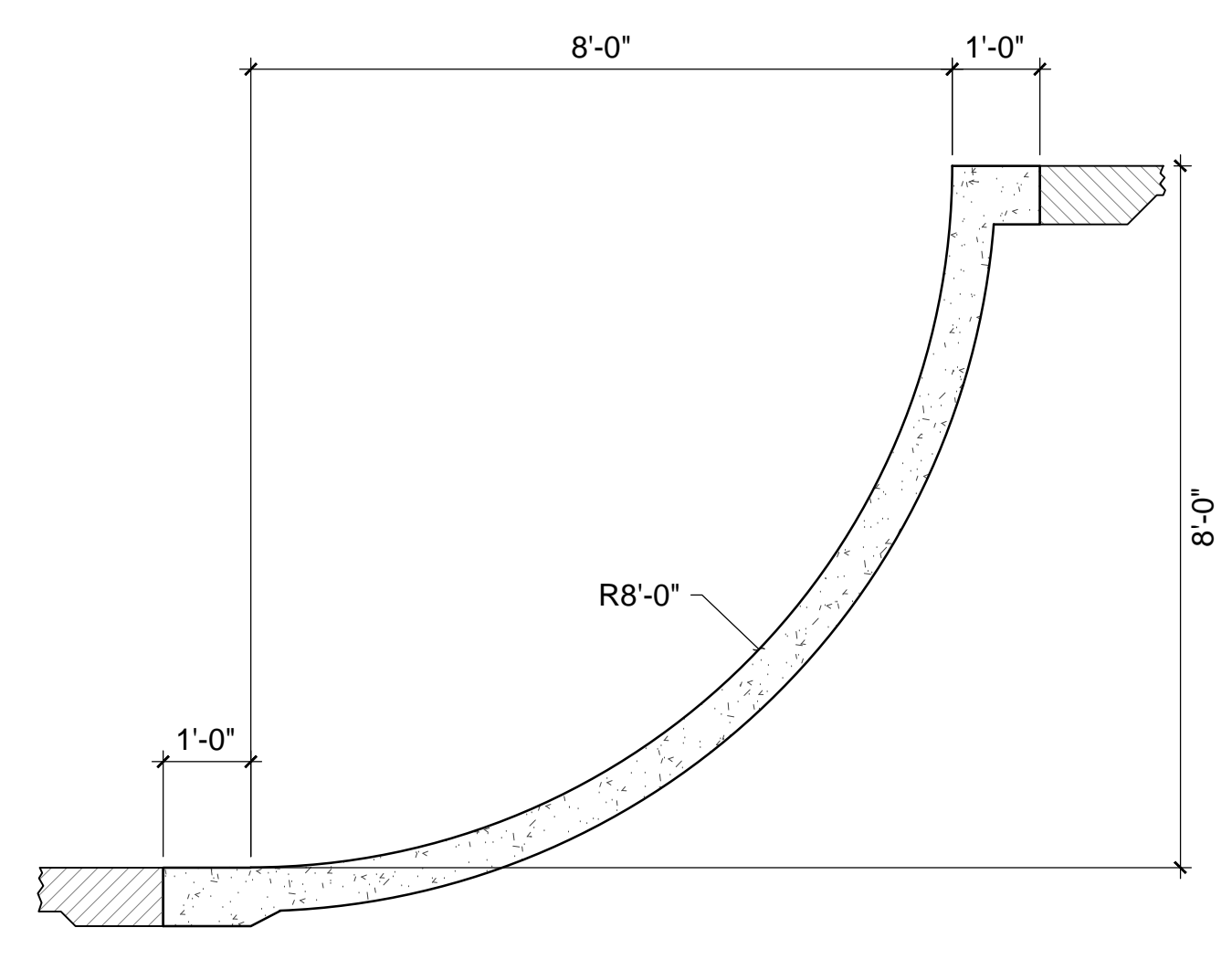
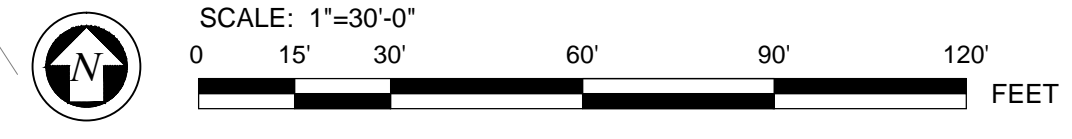
CLARB CERTIFIED
LANDSCAPE ARCHITECT

JOB NO.	CSD1150-12
DATE:	04-16-2013
SCALE:	PER PLAN
DRAWN:	CHS
SHEET:	LC-301
16 OF 23 SHEETS	

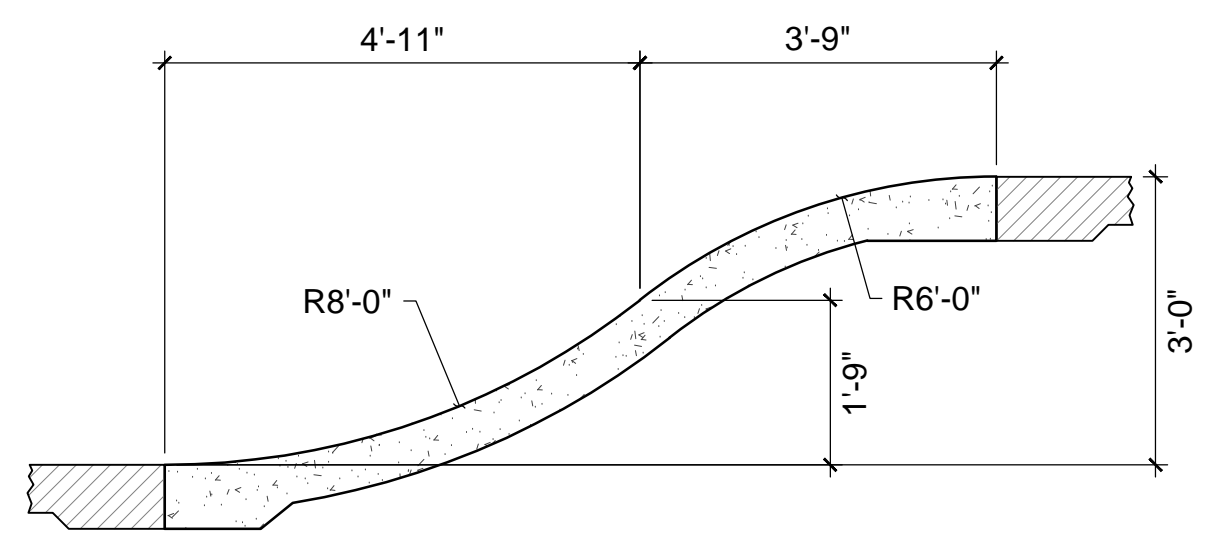
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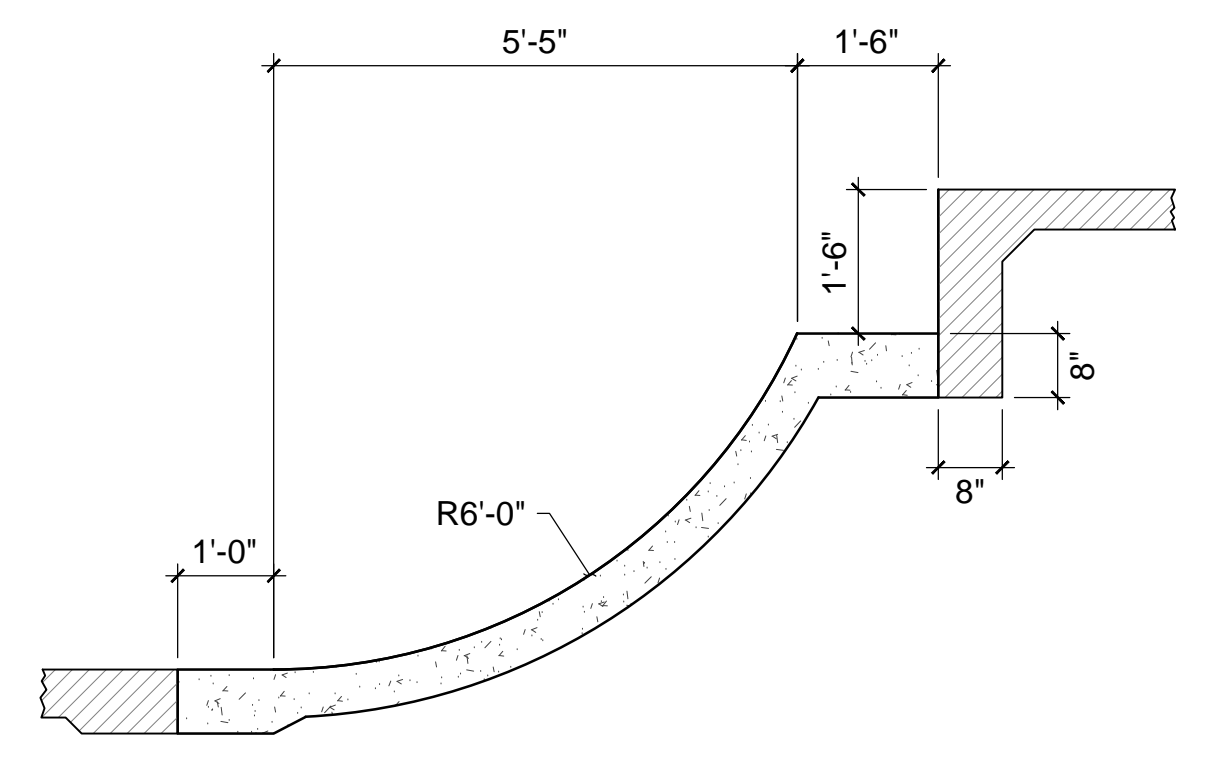
- SECTION GENERAL NOTES:**
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 8. METAL FABRICATION NOT SHOWN ON SECTIONS - REFER TO CONSTRUCTION PLAN FOR TYPE AND LOCATION.



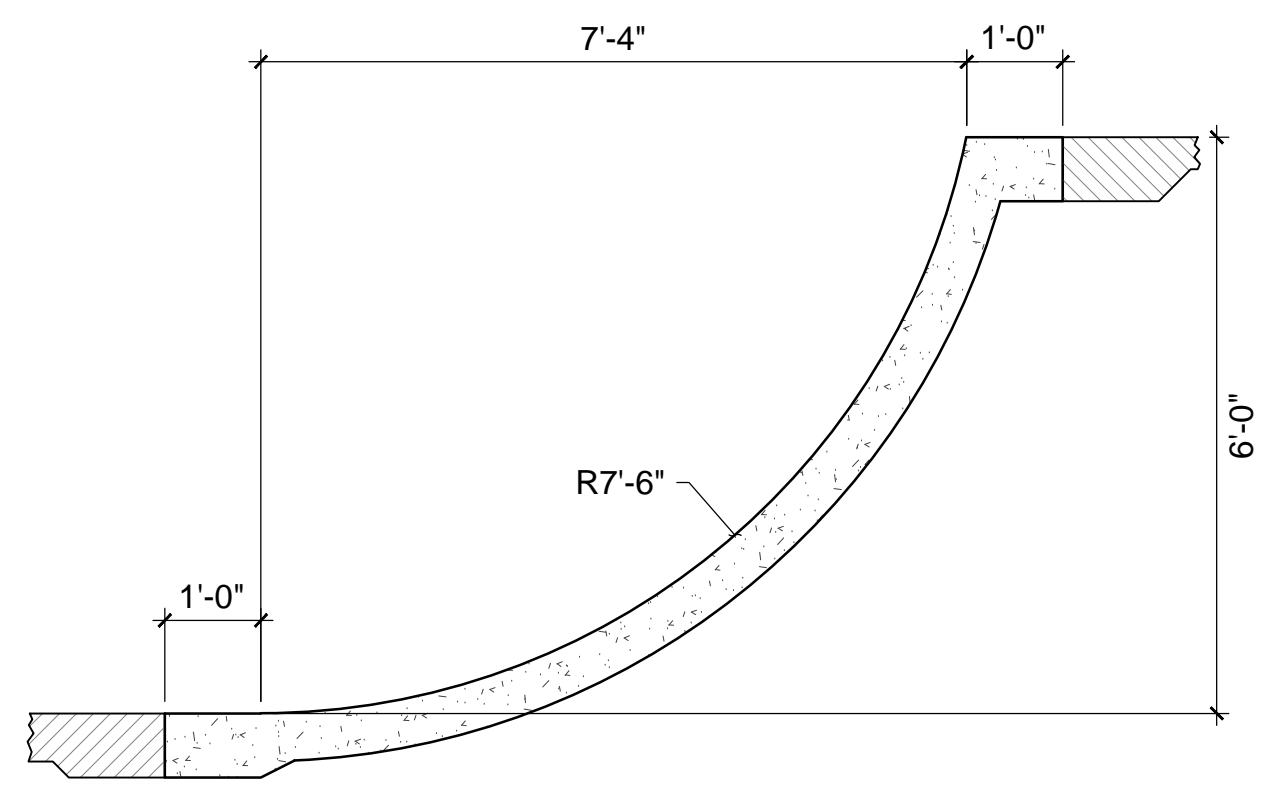
S10 SECTION
1/2"=1'-0"



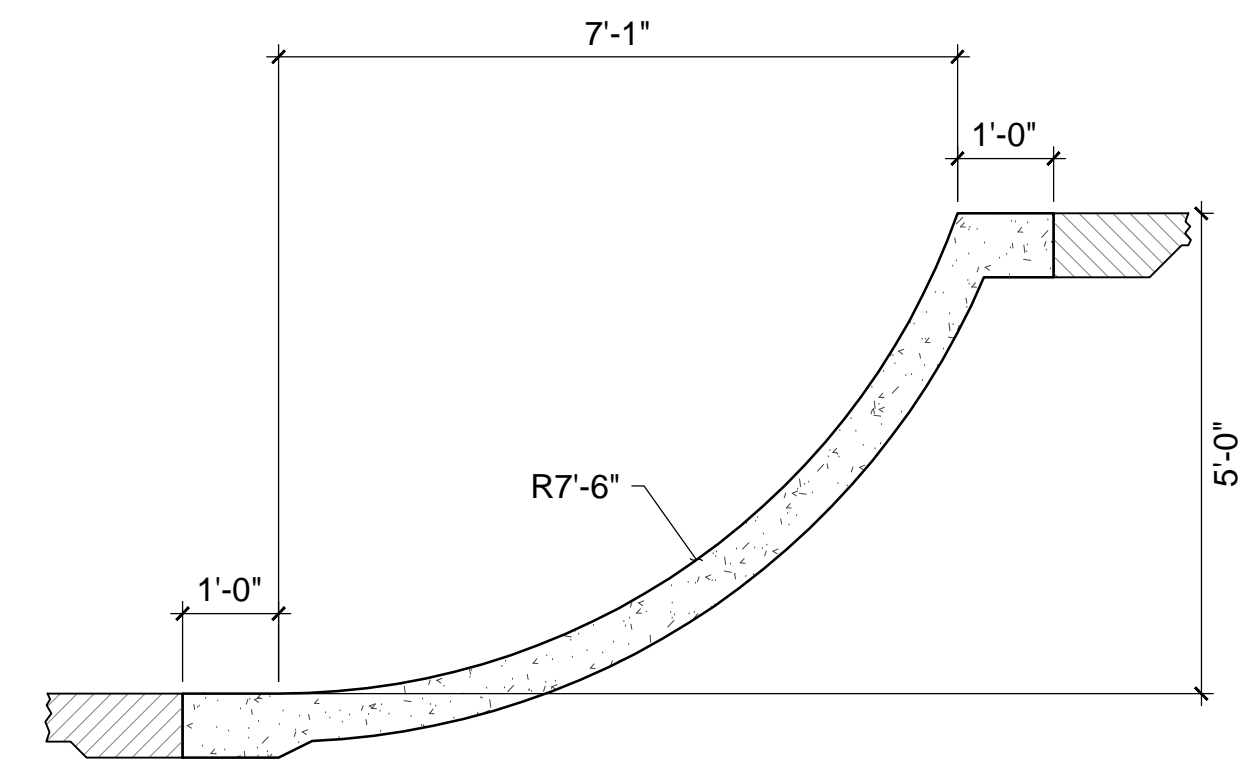
S9 SECTION
1/2"=1'-0"



S8 SECTION
1/2"=1'-0"



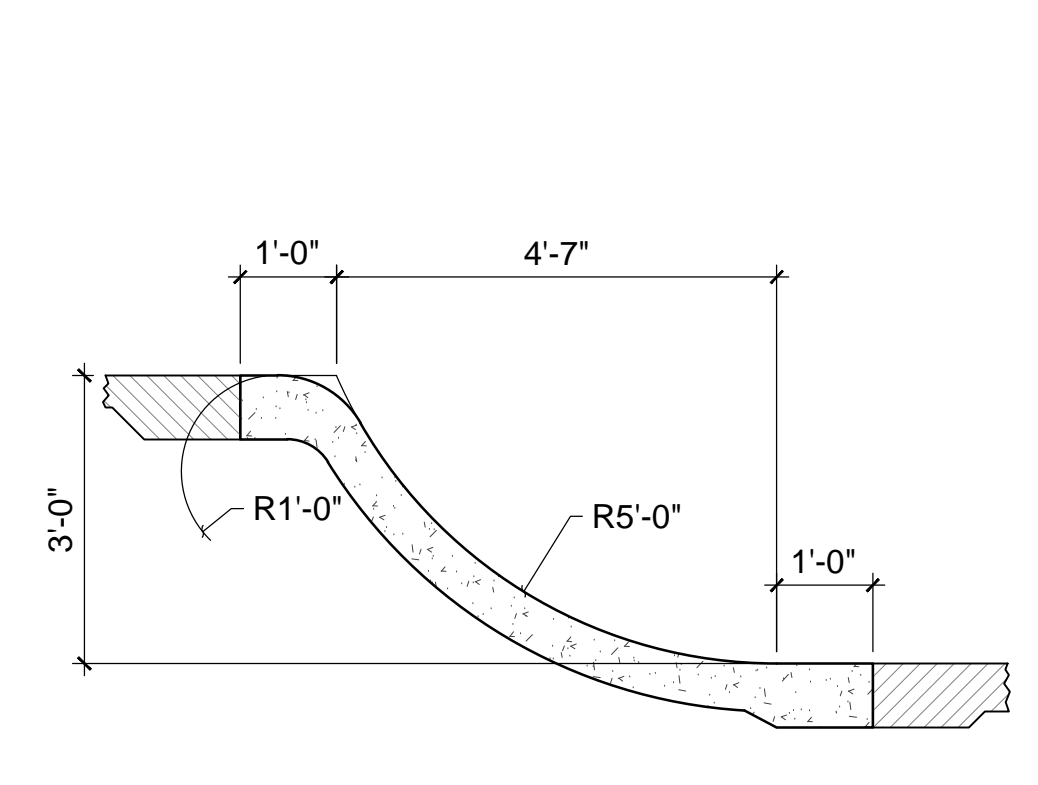
S13 SECTION
1/2"=1'-0"



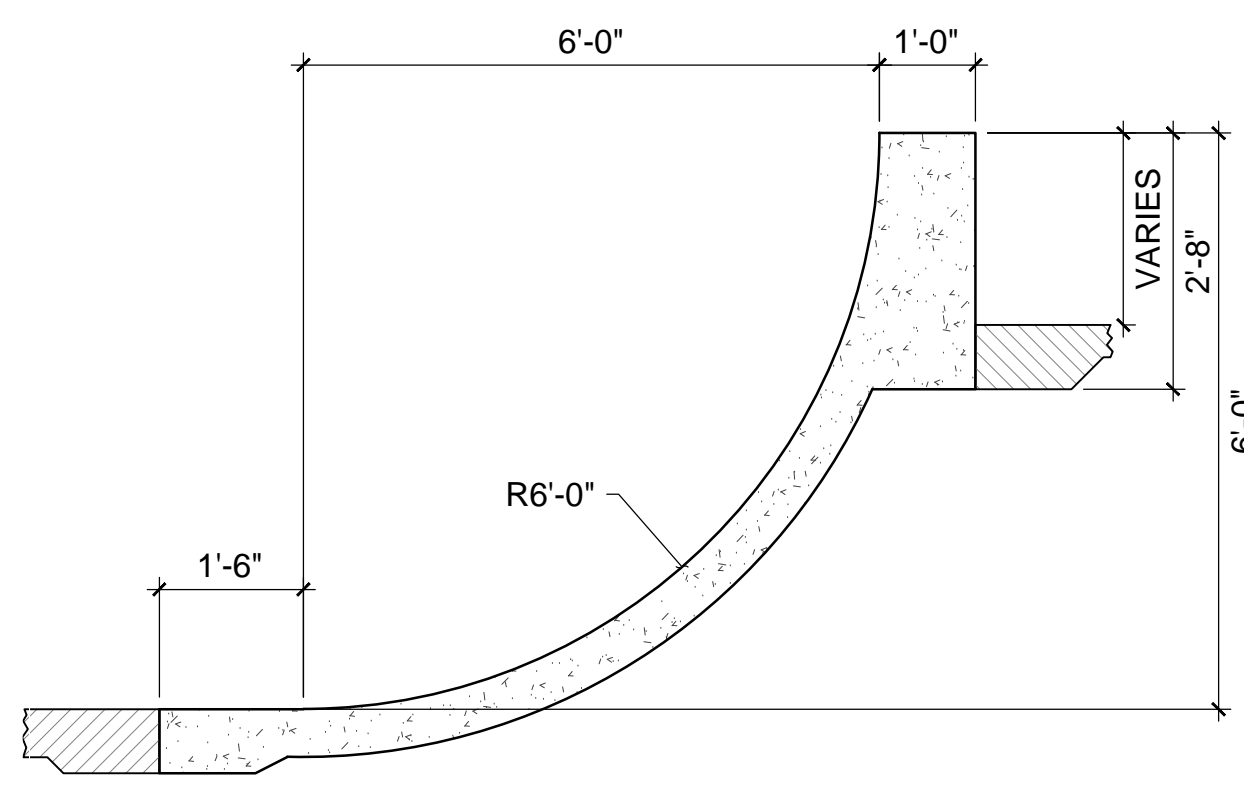
S12 SECTION
1/2"=1'-0"

S11 SECTION
1/2"=1'-0"

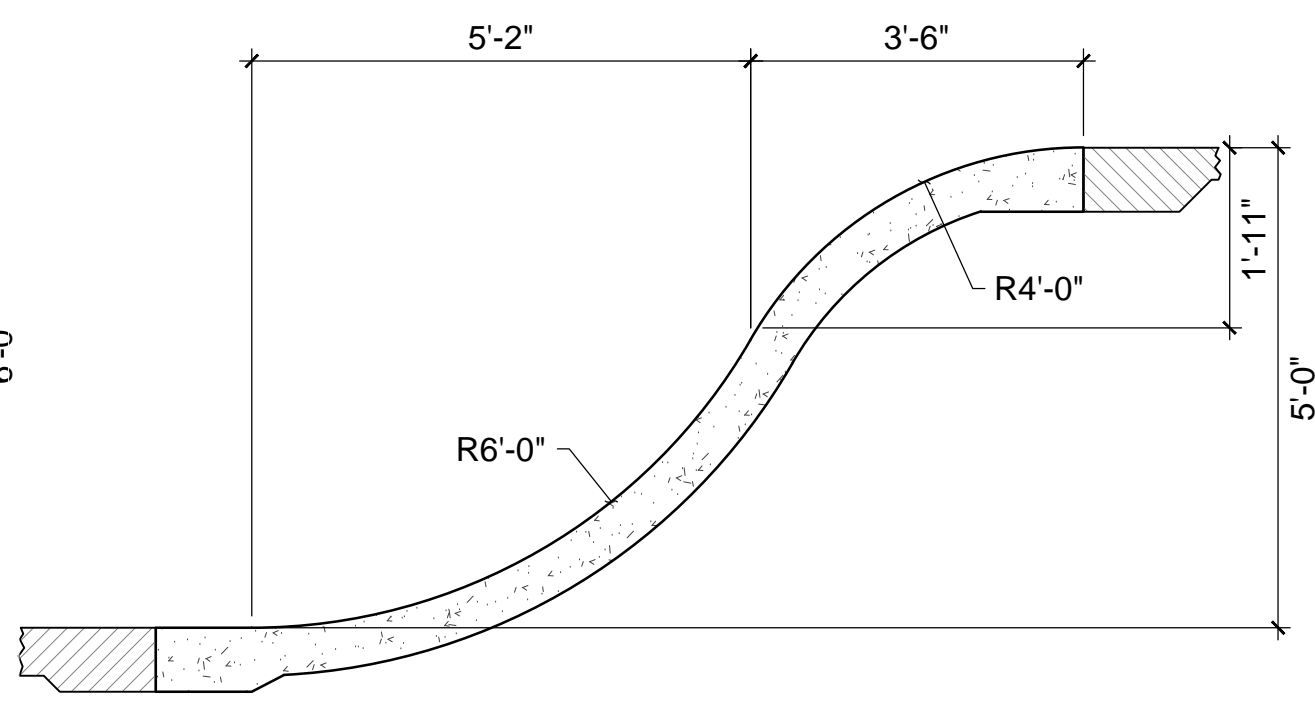
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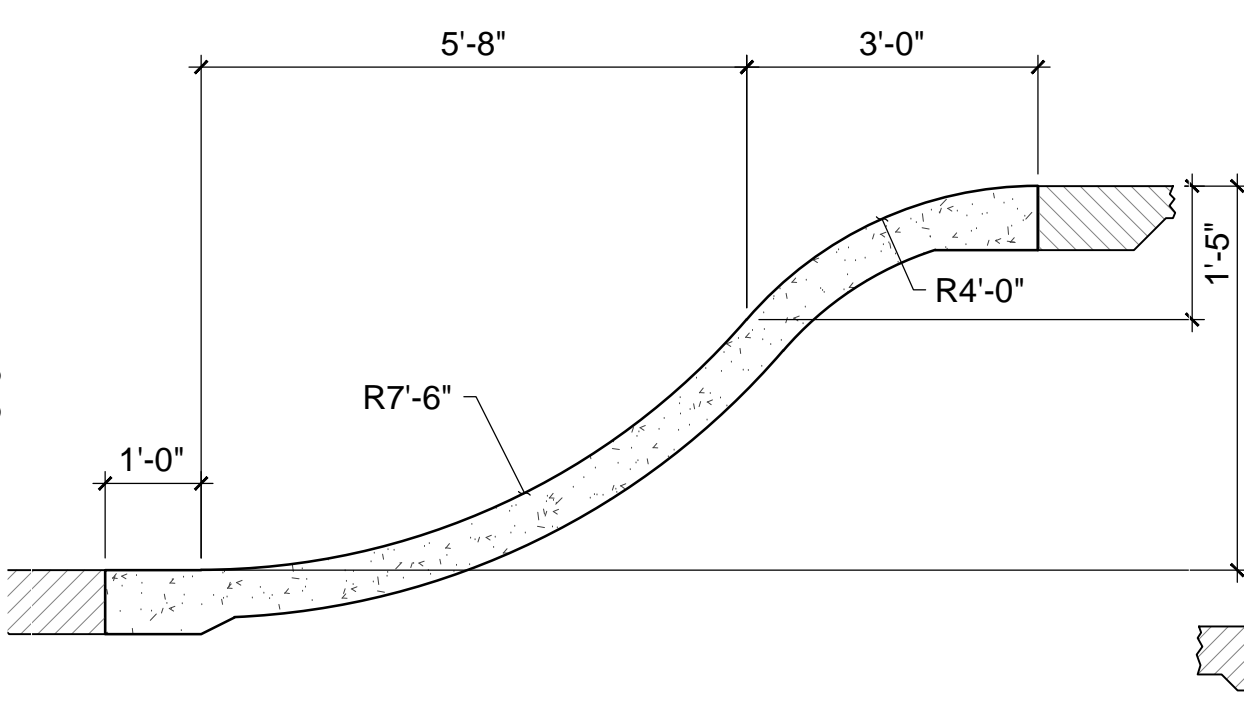
S18 SECTION
1/2"=1'-0"



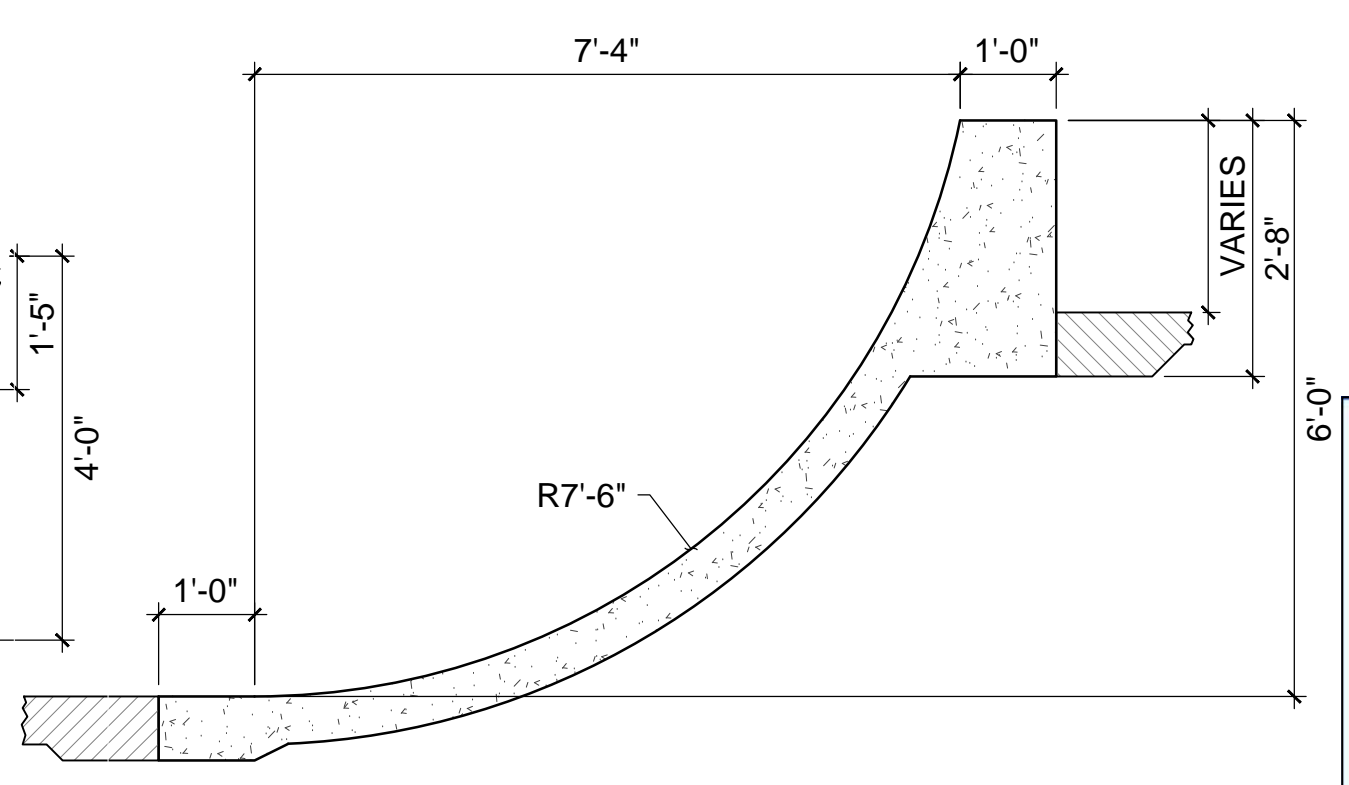
S17 SECTION
1/2"=1'-0"



S16 SECTION
1/2"=1'-0"



S15 SECTION
1/2"=1'-0"



S14 SECTION
1/2"=1'-0"

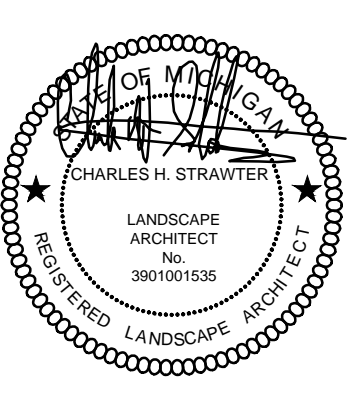
REVISIONS	BY
5/7/13	CHS

WALLY HOLLYDAY
DESIGN
skatedesign.com

CHARLES H. STRAWTNER
ARCHITECT
LANDSCAPE ARCHITECT
No. 3855000335
REGISTERED LANDSCAPE ARCHITECT

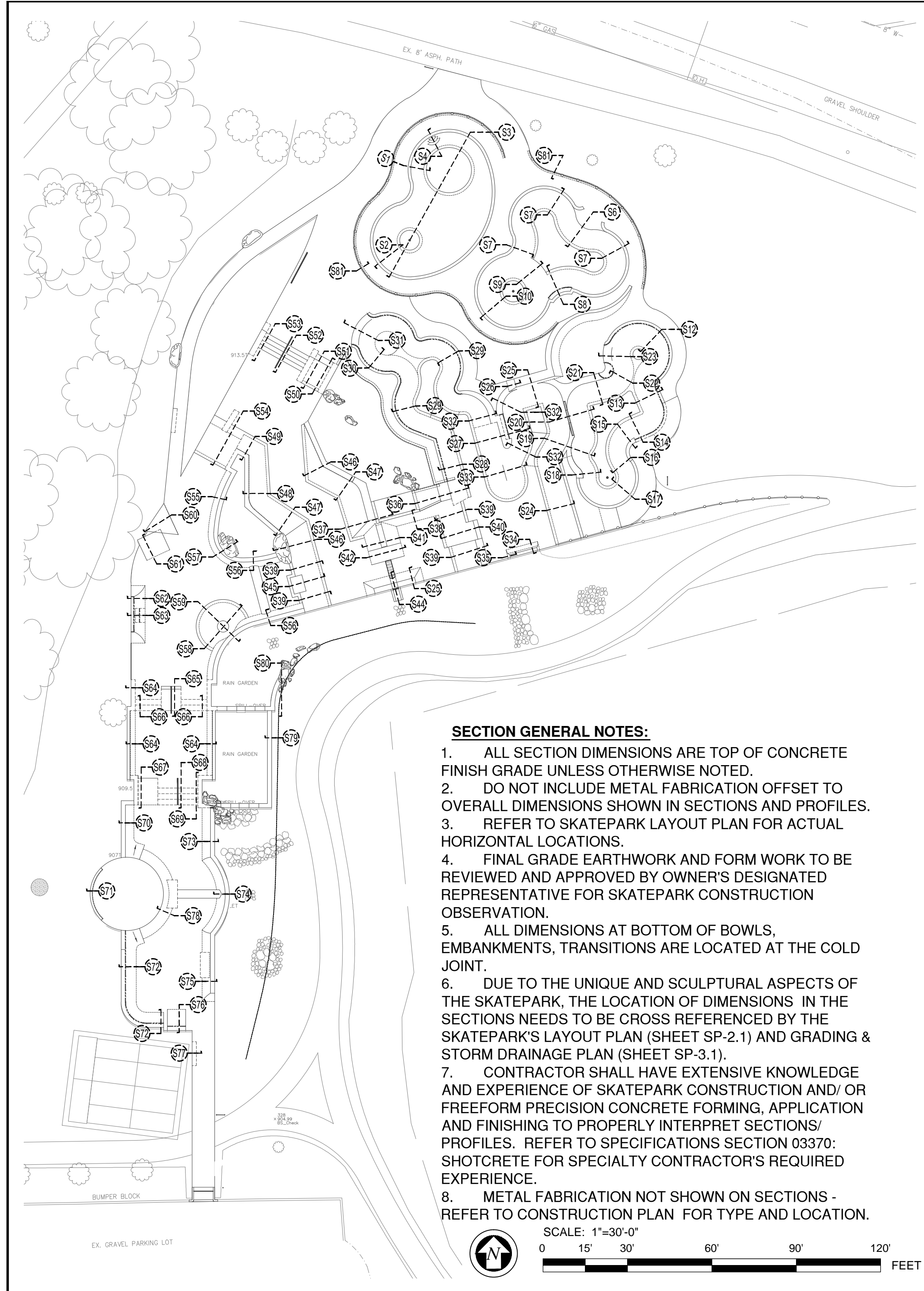
PROJECT: ANN ARBOR SKATEPARK
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION SECTIONS
SUBMITTAL: BID SET

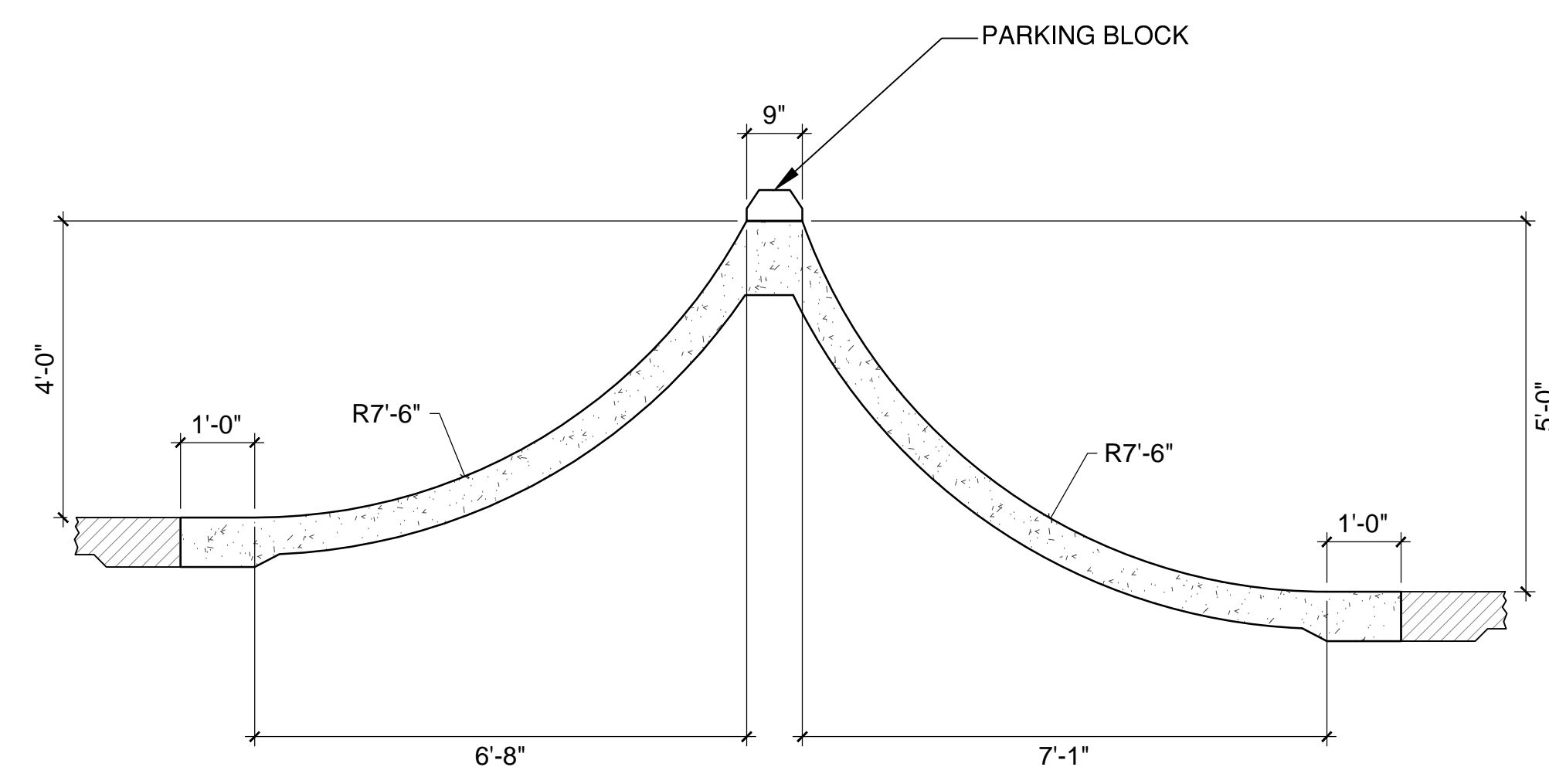
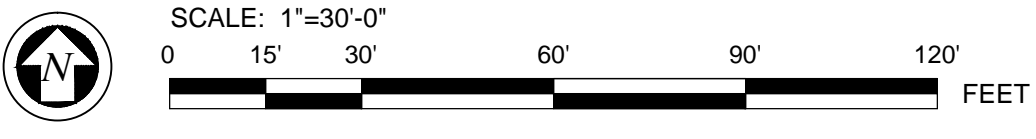


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LANDSCAPE ARCHITECT

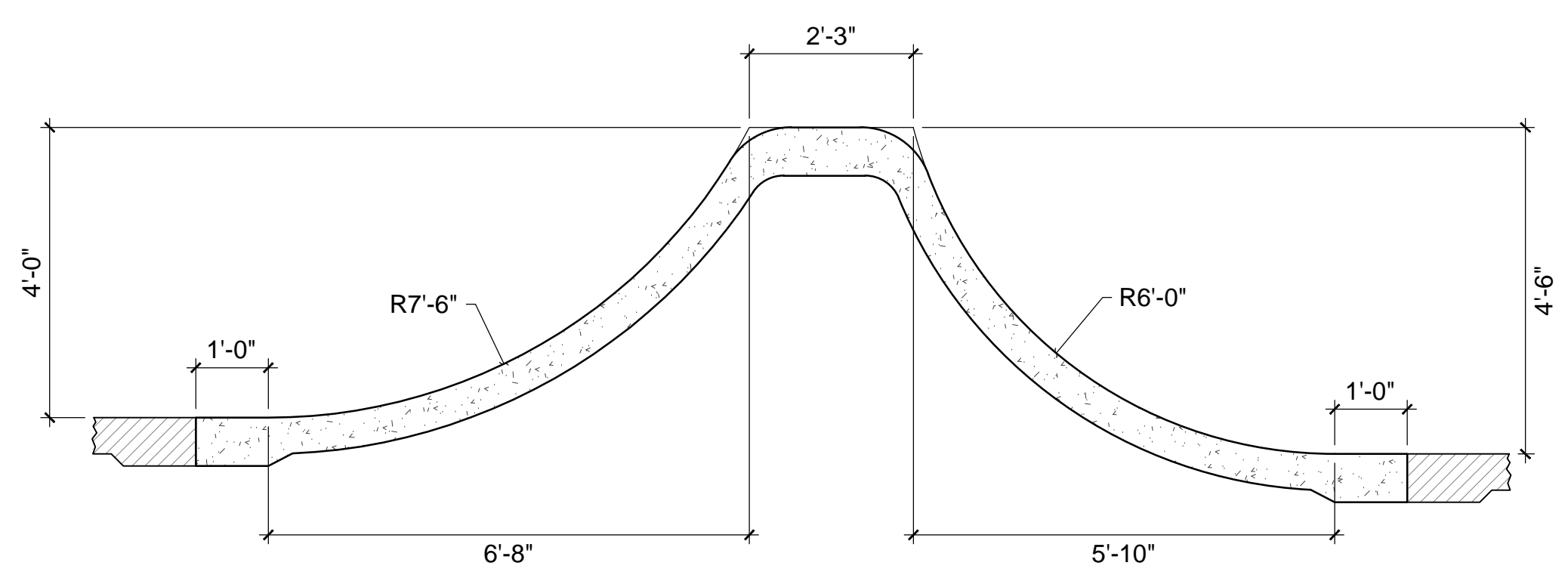
JOB NO. CSD1150-12
DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: LC-302
17 OF 23 SHEETS



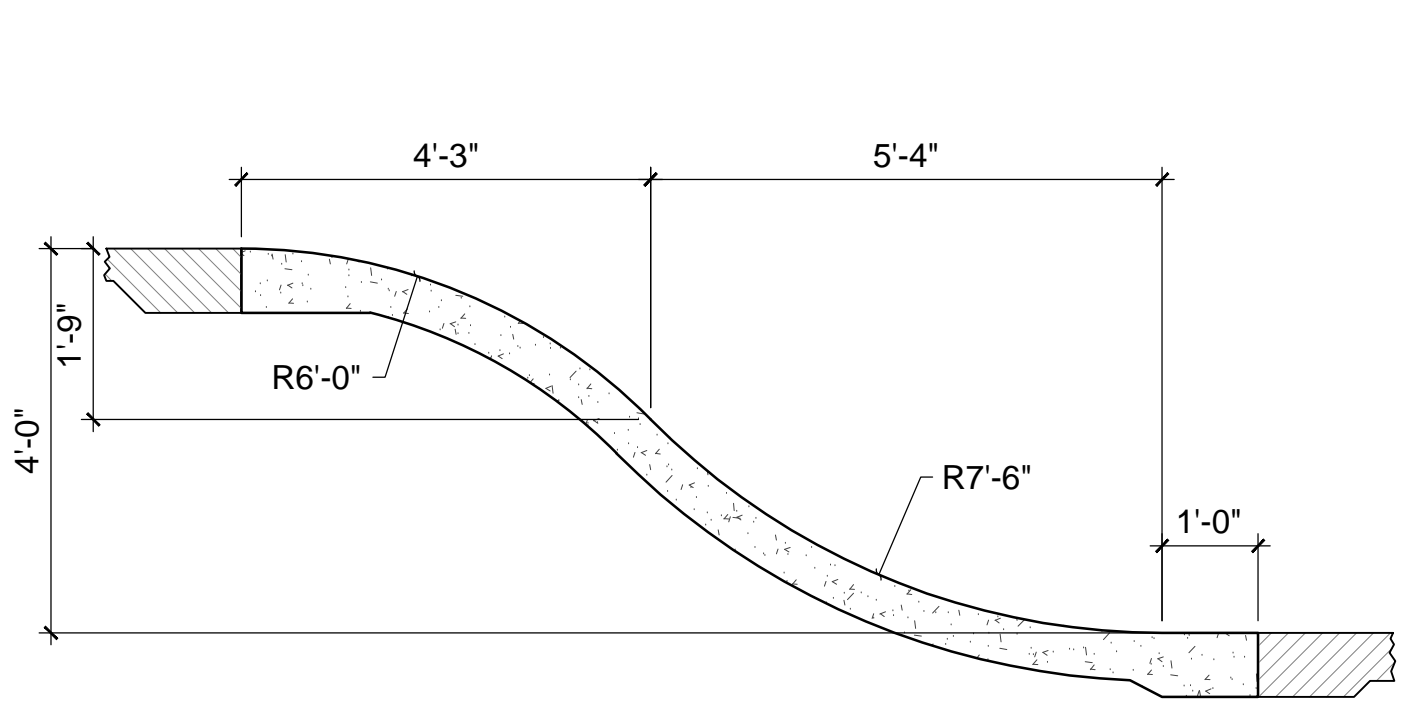
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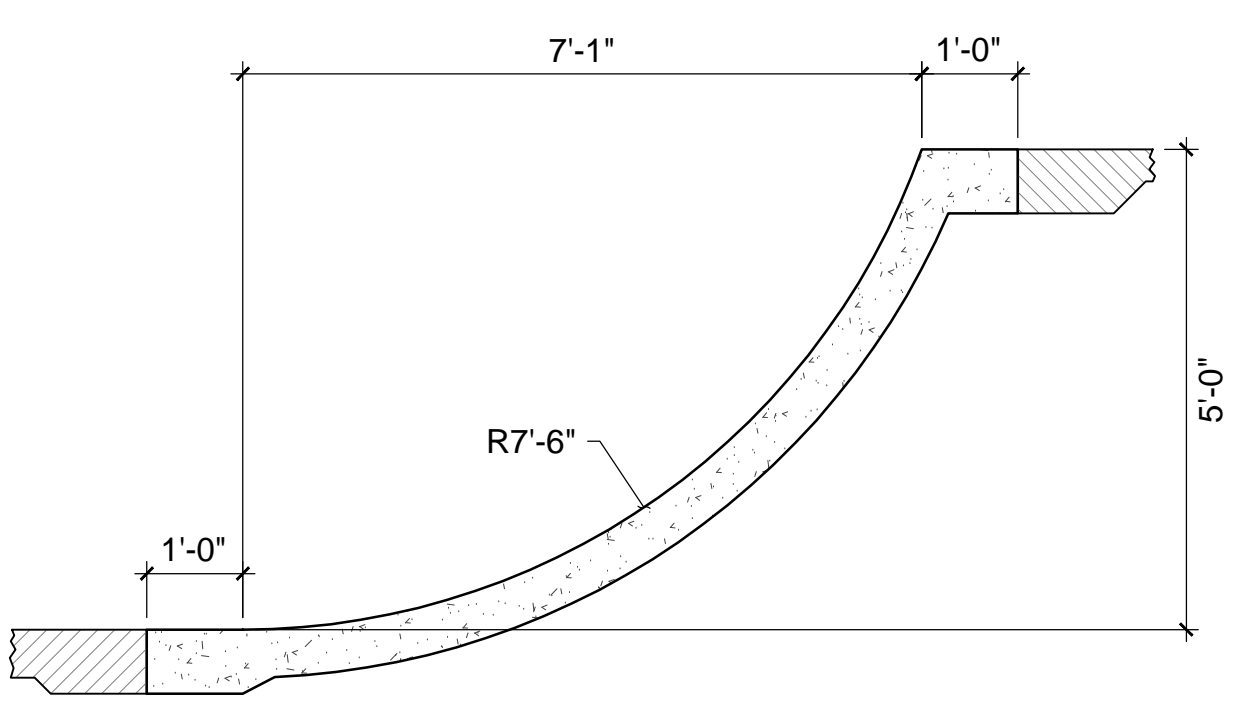
S20 SECTION
1/2"=1'-0"



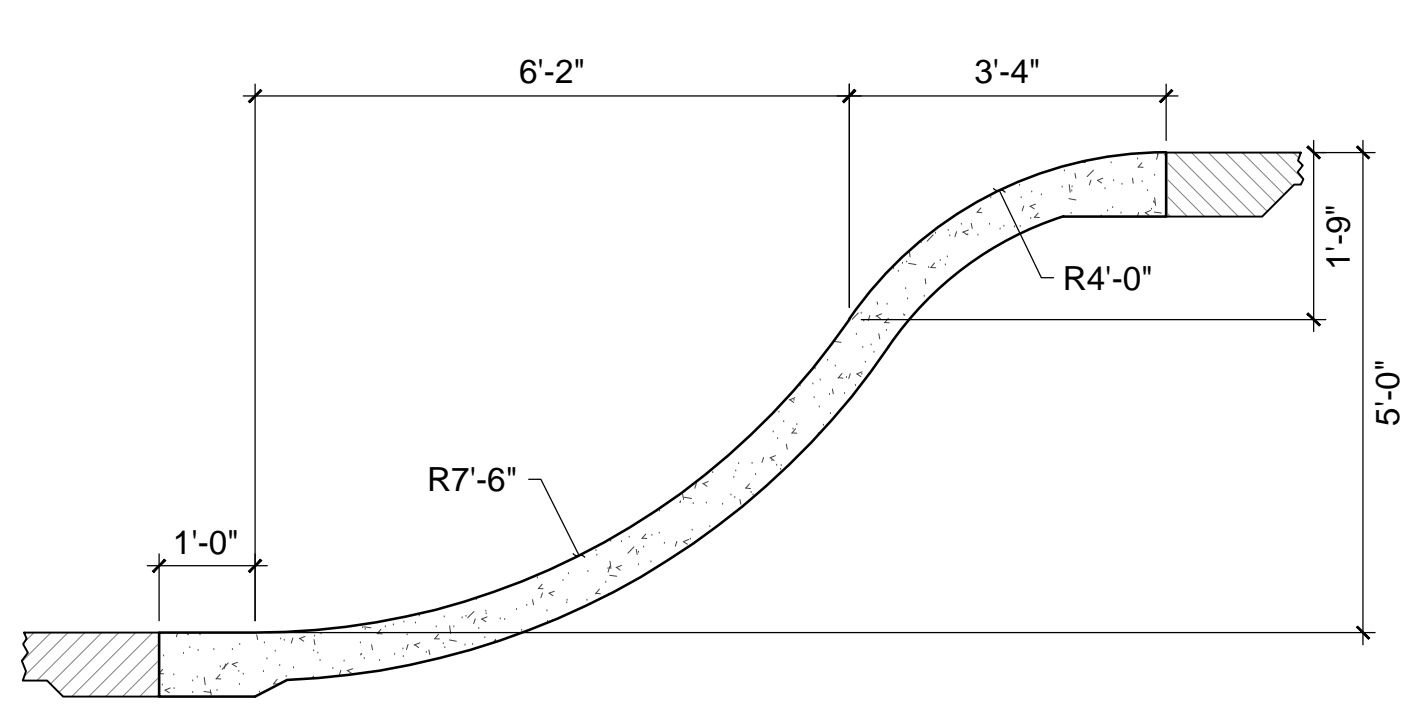
S19 SECTION
1/2"=1'-0"



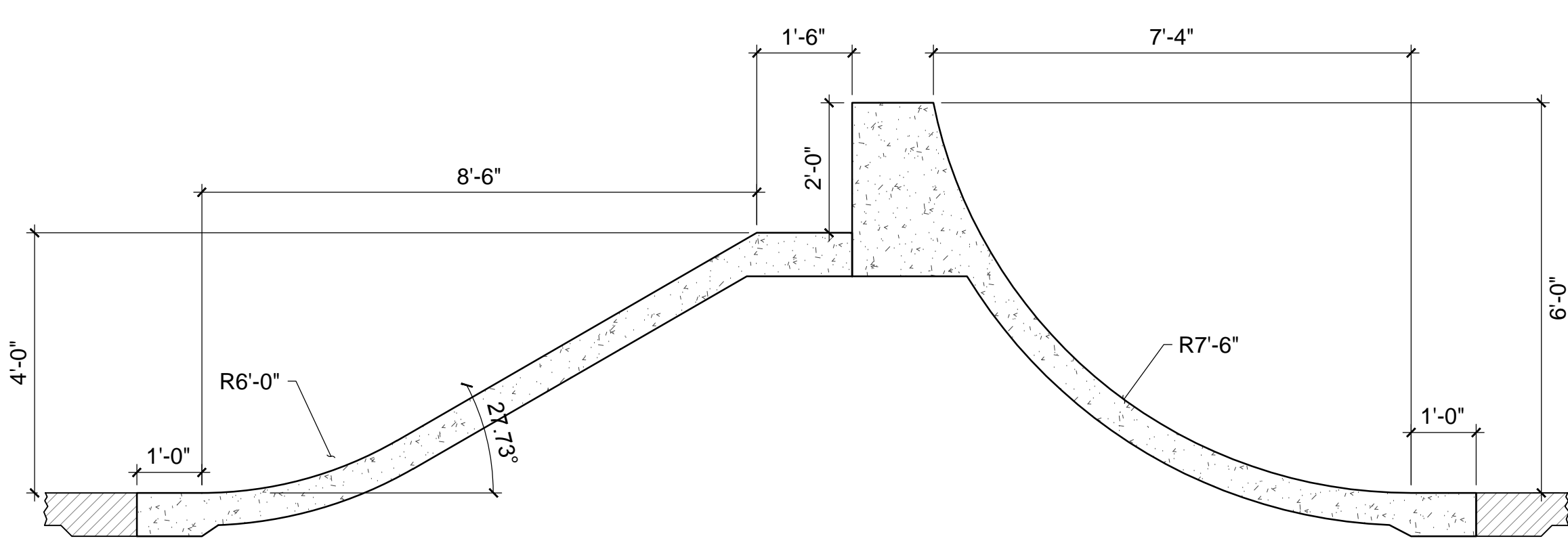
S23 SECTION
1/2"=1'-0"



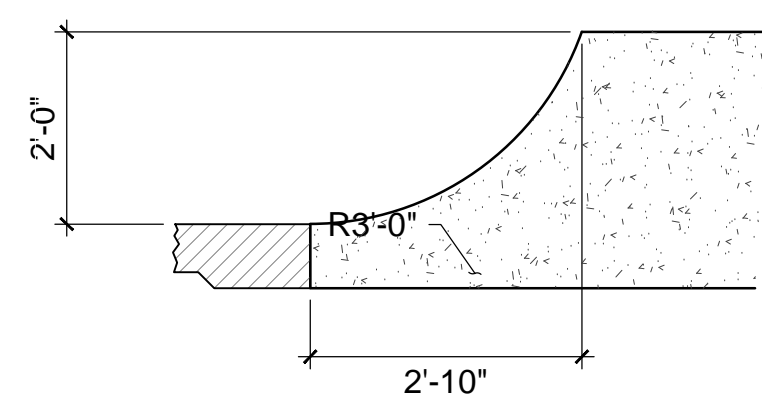
S22 SECTION
1/2"=1'-0"



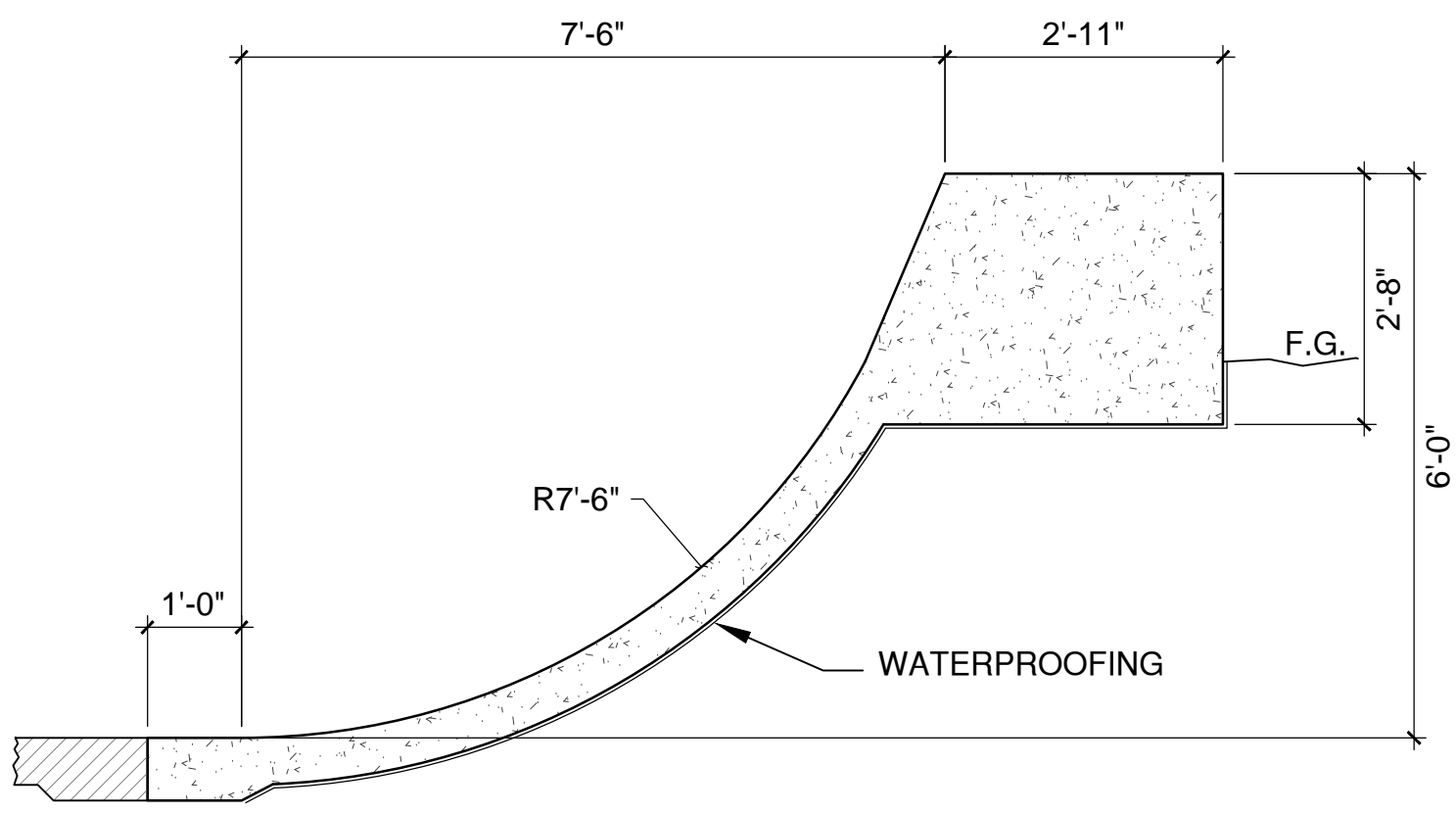
S21 SECTION
1/2"=1'-0"



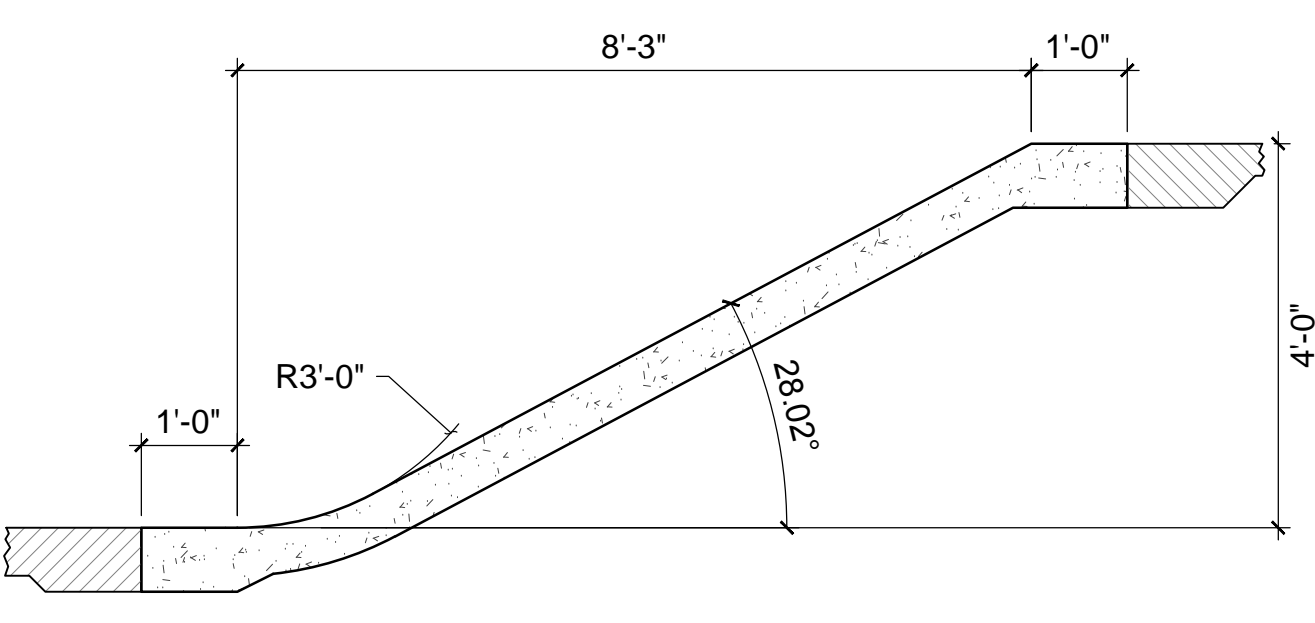
S27 SECTION
1/2"=1'-0"



S26 SECTION
1/2"=1'-0"



S25 SECTION
1/2"=1'-0"



S24 SECTION
1/2"=1'-0"

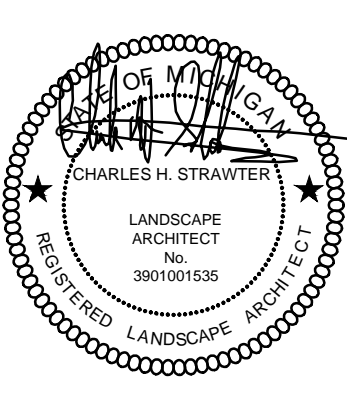
REVISIONS	BY
5/7/13	CHS

HOLLYDAY
design
skateparkdesign.com

CHARLES H. STRAWTNER, ARCHITECT
LANDSCAPE ARCHITECT
2150 JACKSON AVE., ANN ARBOR, MI 48106
734.769.7214
ANN ARBOR, MI

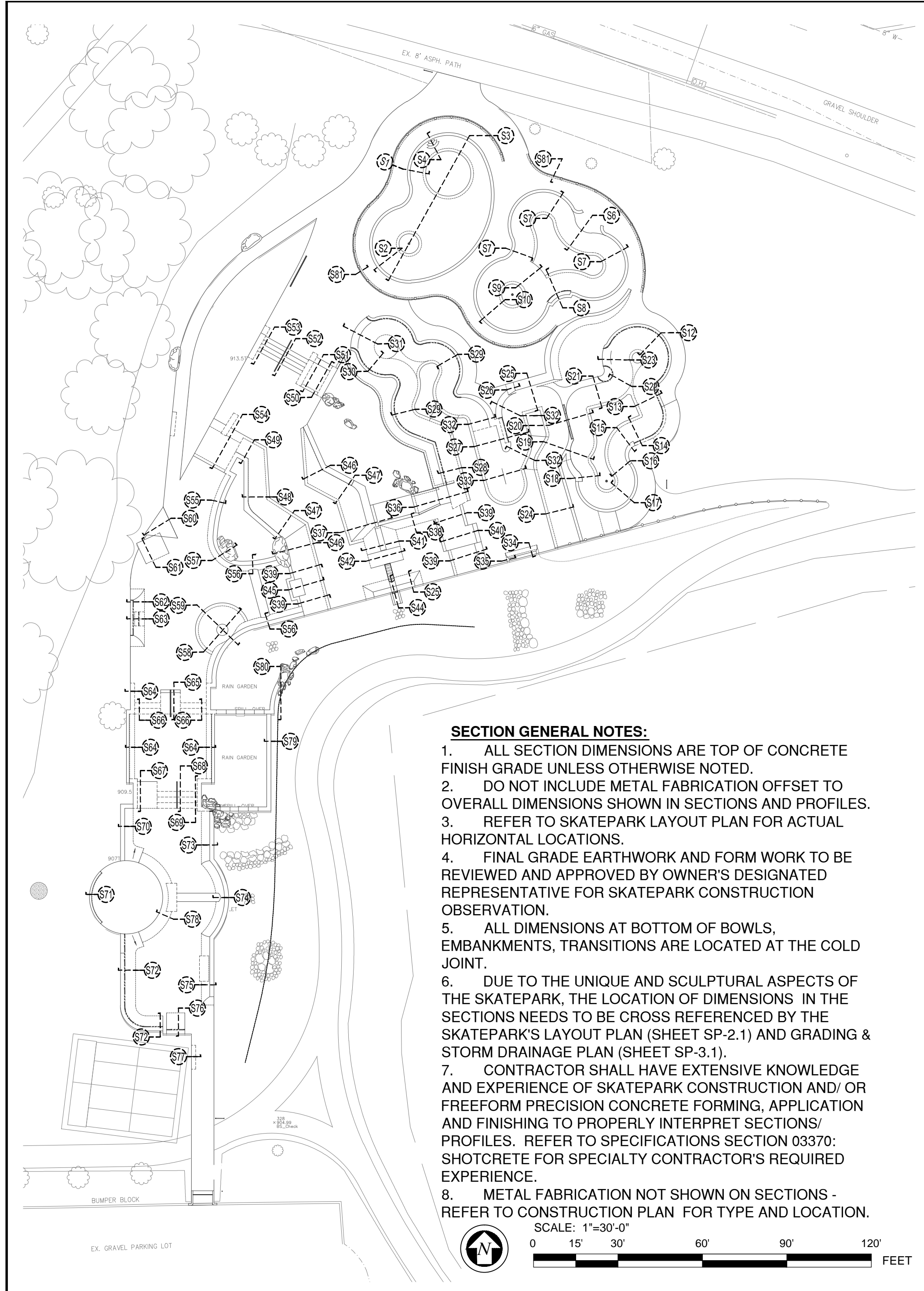
ANN ARBOR SKATEPARK
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION SECTIONS
SUBMITTAL: BID SET

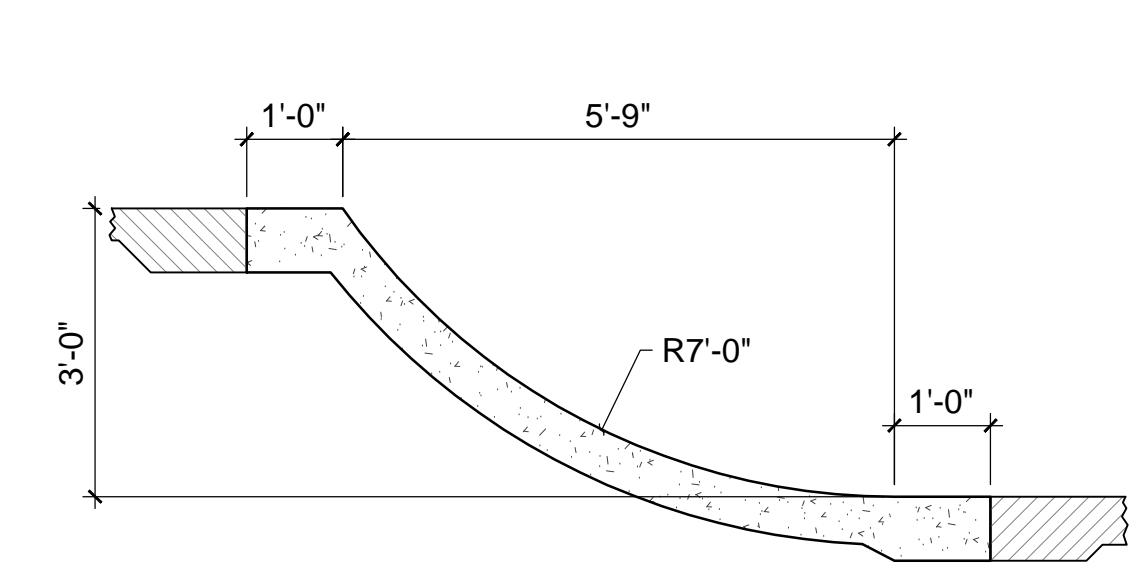
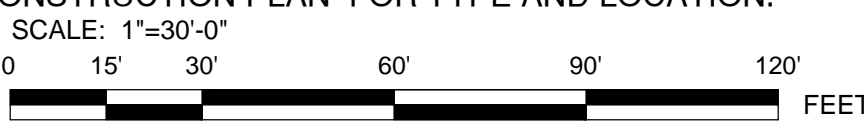


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LANDSCAPE ARCHITECT

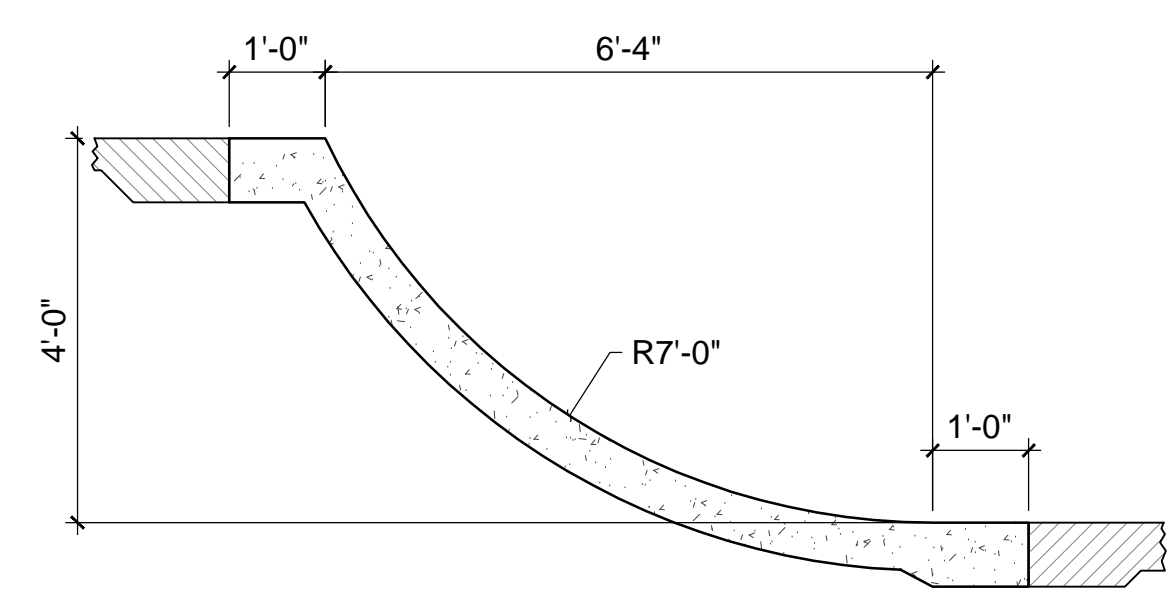
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DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: **LC-303**
18 OF 23 SHEETS



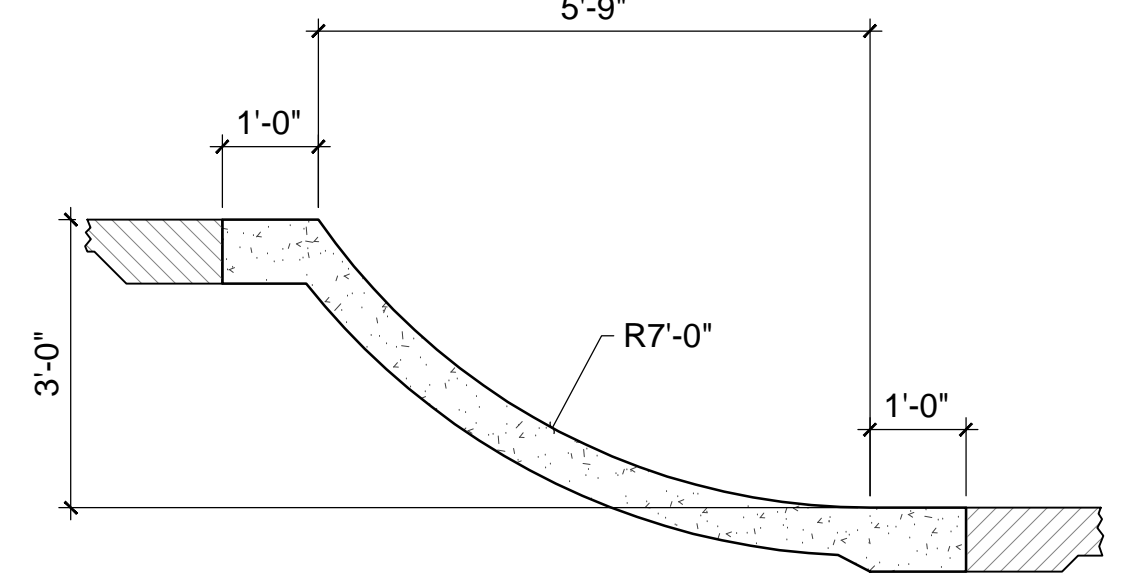
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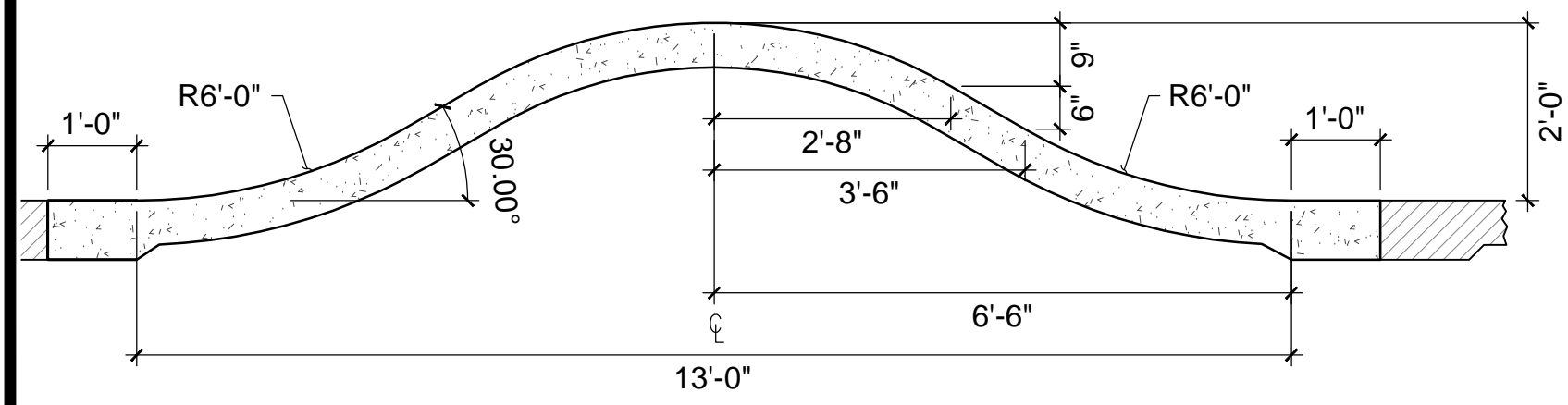
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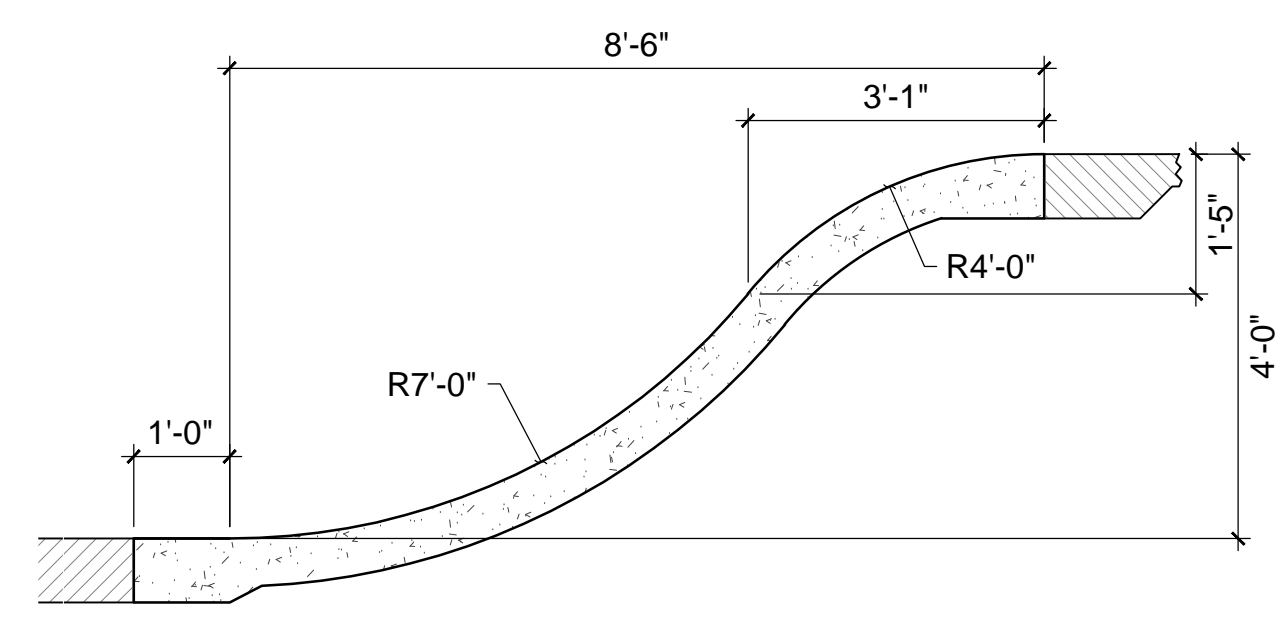
S29 SECTION
1/2"=1'-0"



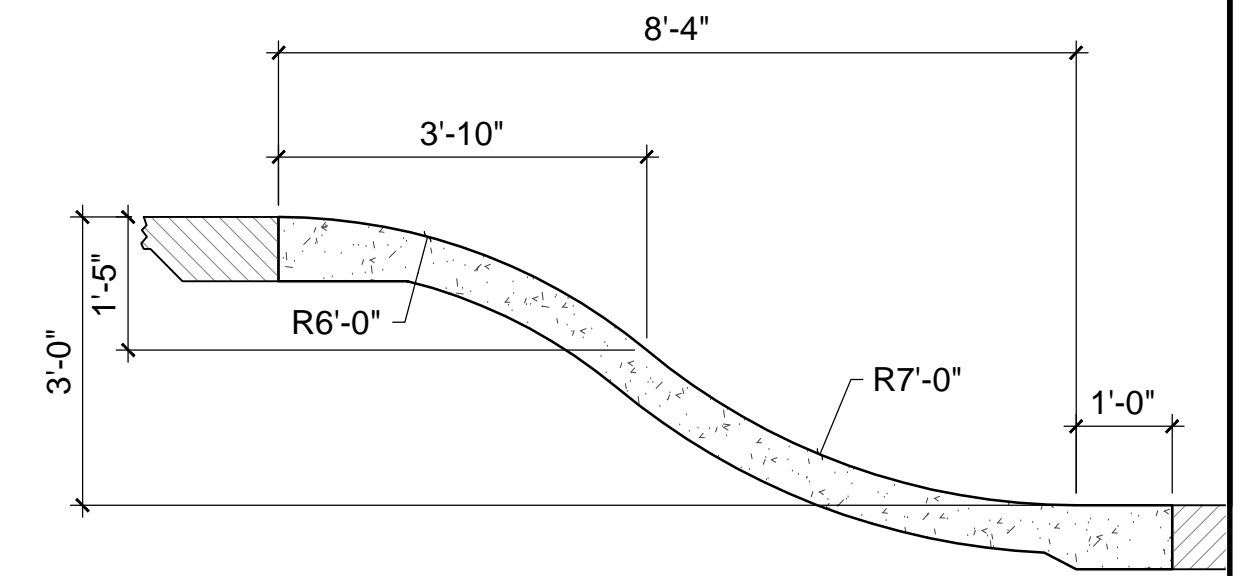
S28 SECTION
1/2"=1'-0"



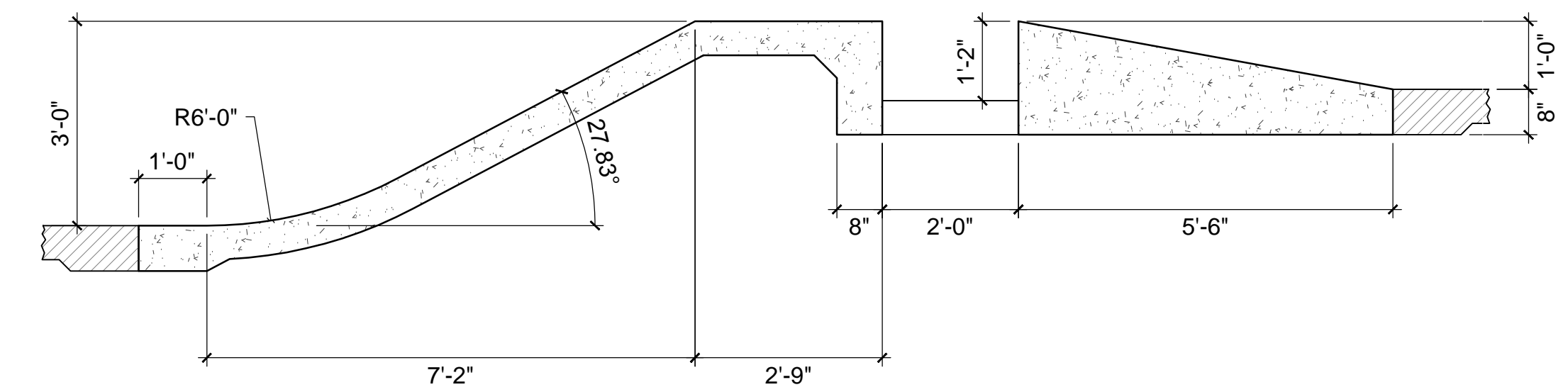
S33 SECTION
1/2"=1'-0"



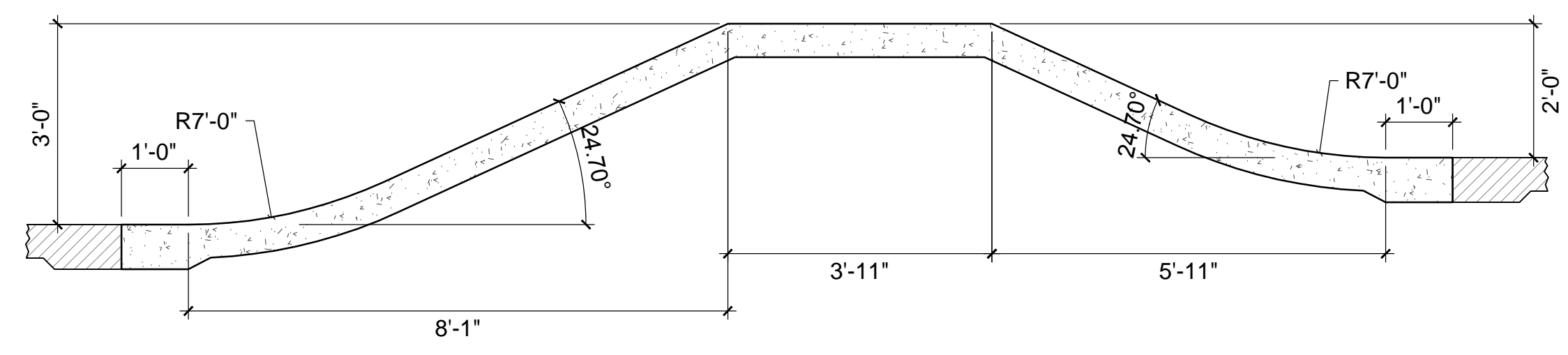
S32 SECTION
1/2"=1'-0"



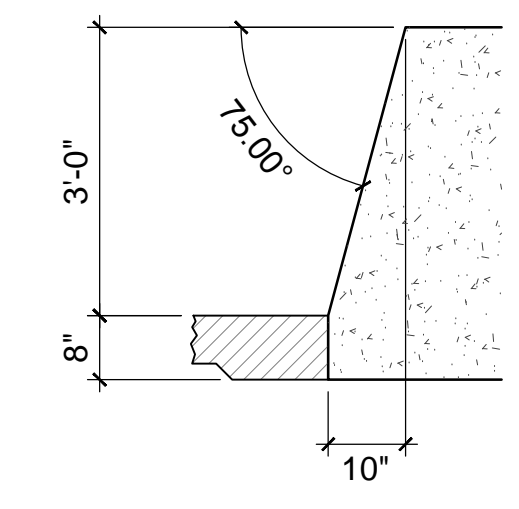
S31 SECTION
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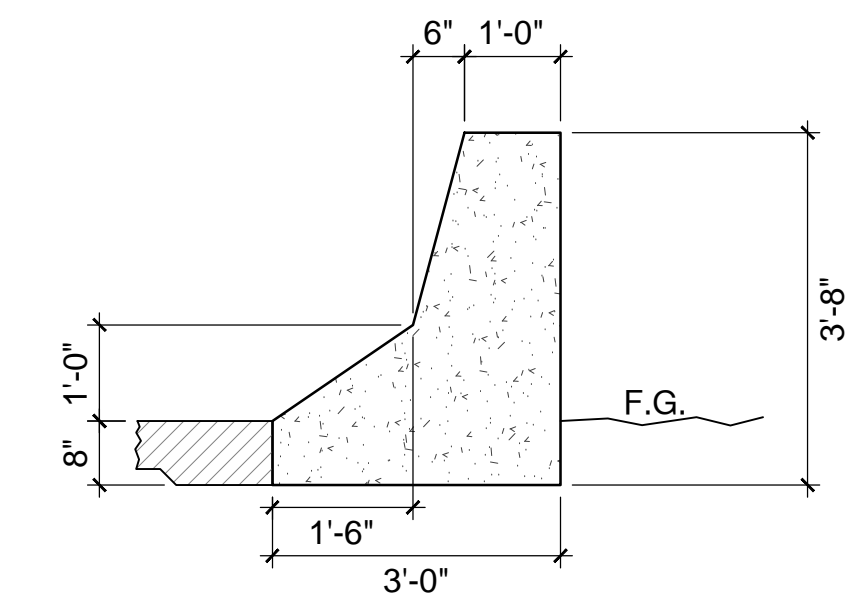
S37 SECTION
1/2"=1'-0"



S36 SECTION
1/2"=1'-0"



S35 SECTION
1/2"=1'-0"



S34 SECTION
1/2"=1'-0"

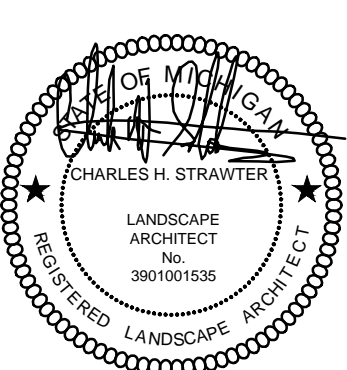
REVISIONS	BY
5/7/13	CHS

WALLY HOLLYDAY
Landscape Architect
skatetopdesign.com

CHARLES H. STRAWTER, D. BEIGH, INC.
LANDSCAPE ARCHITECT
2150 JACKSON AVE., ANN ARBOR, MI 48106
734.769.1111

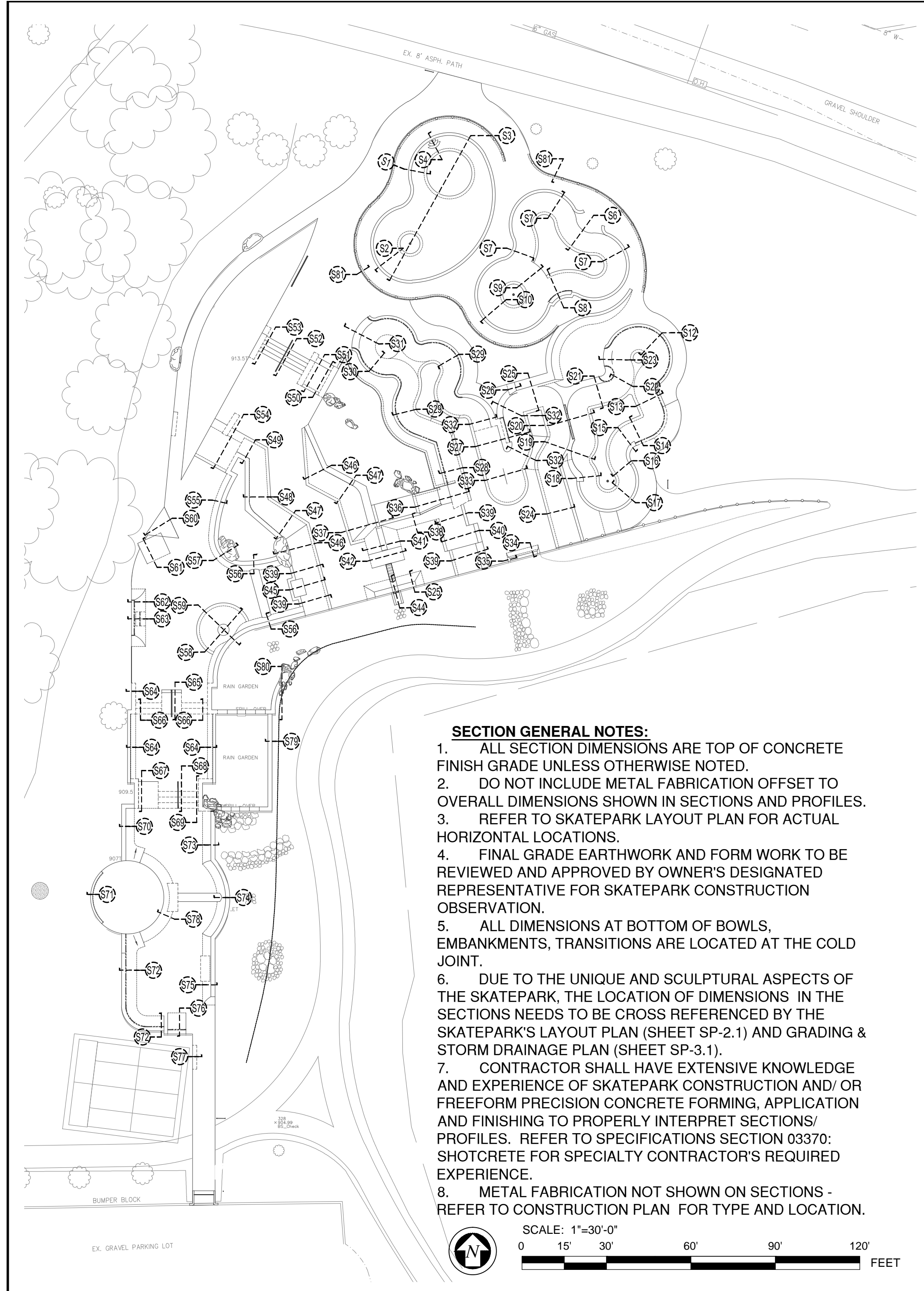
PROJECT: **ANN ARBOR SKATEPARK**
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION SECTIONS
SUBMITTAL: BID SET

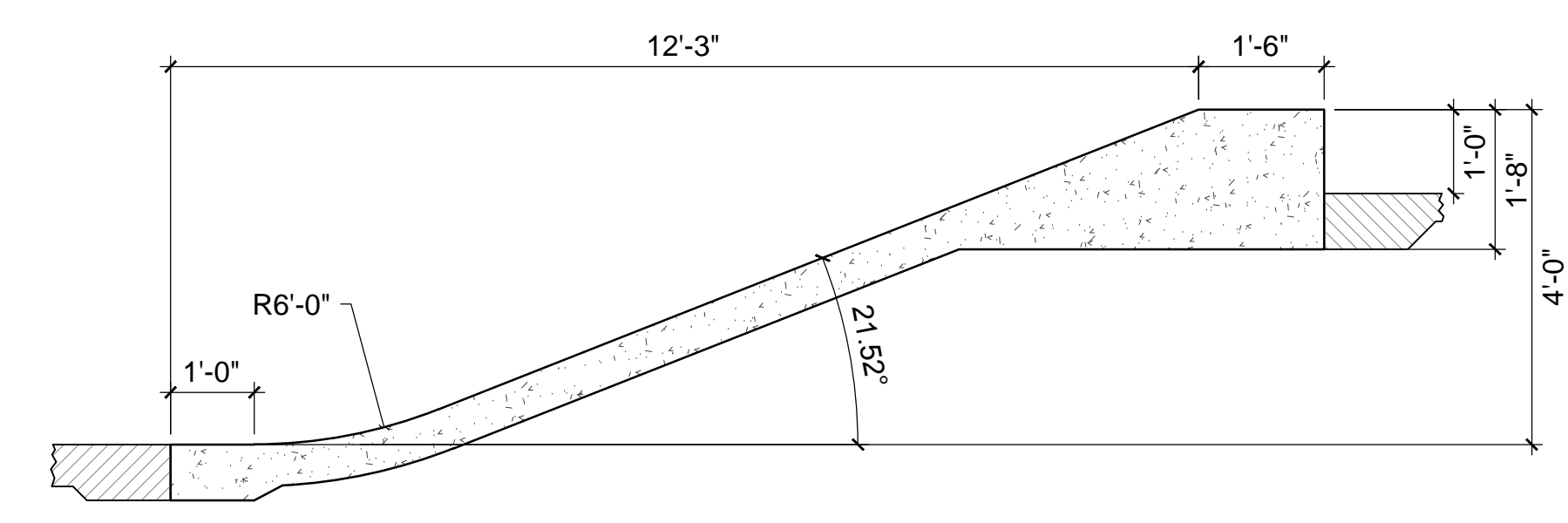
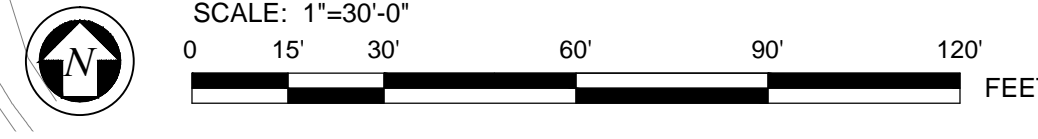


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LANDSCAPE ARCHITECT

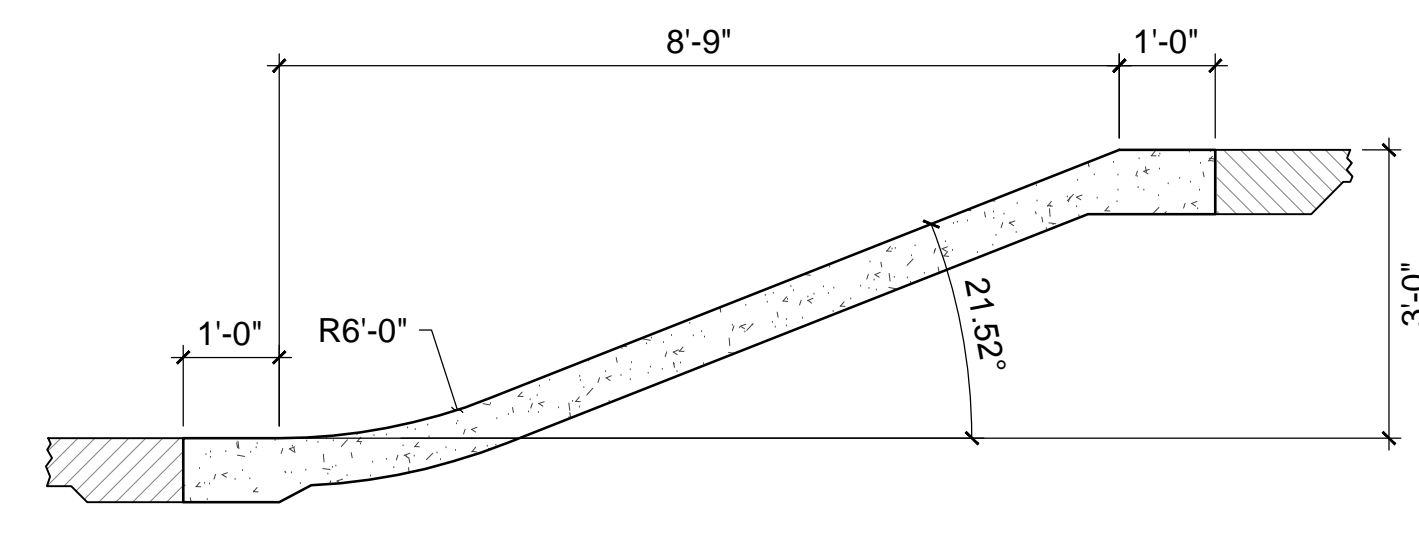
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DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: LC-304
19 OF 23 SHEETS



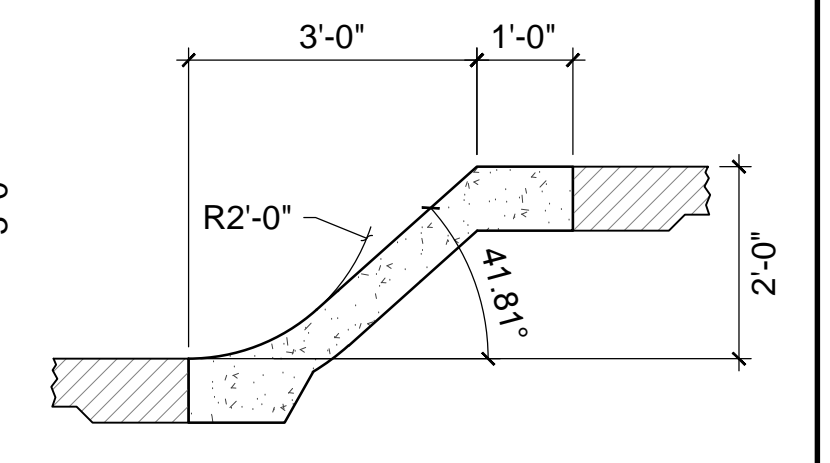
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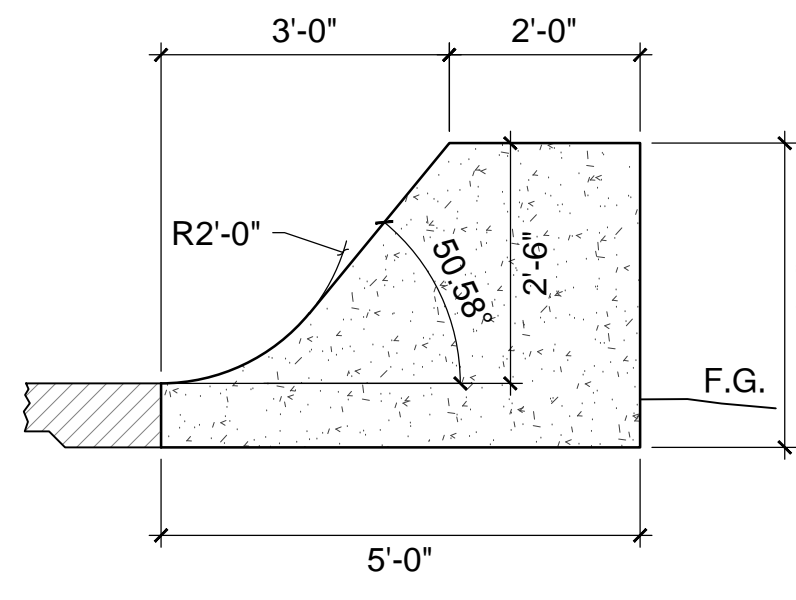
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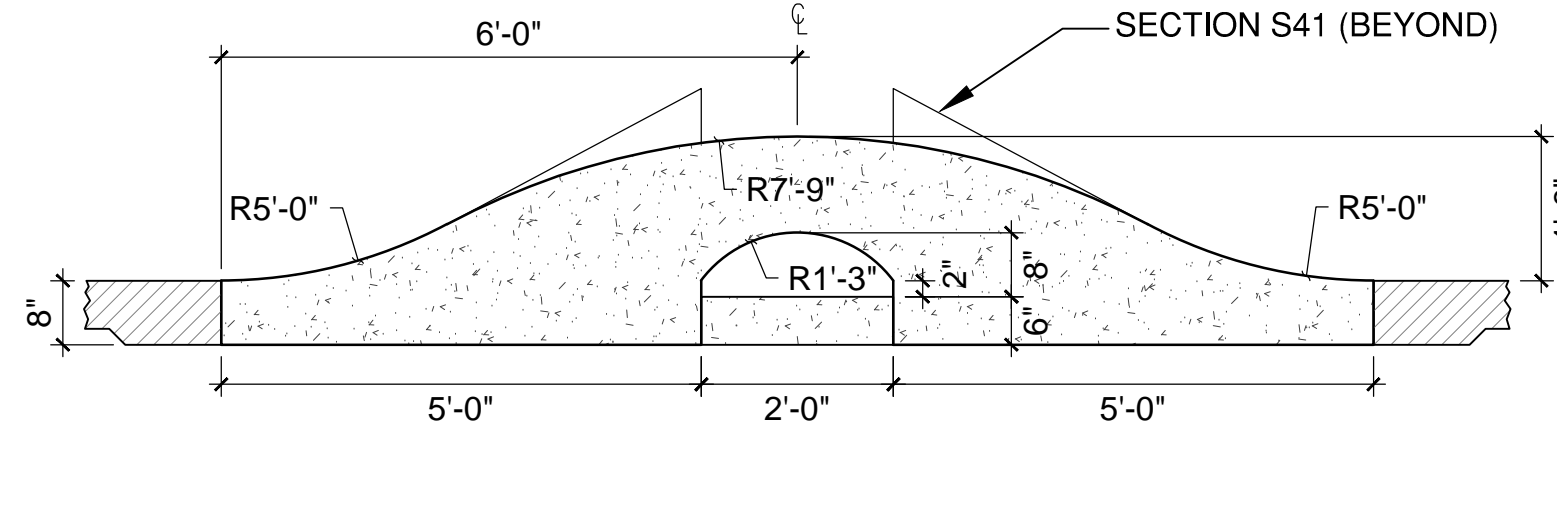
S39 SECTION
1/2"=1'-0"



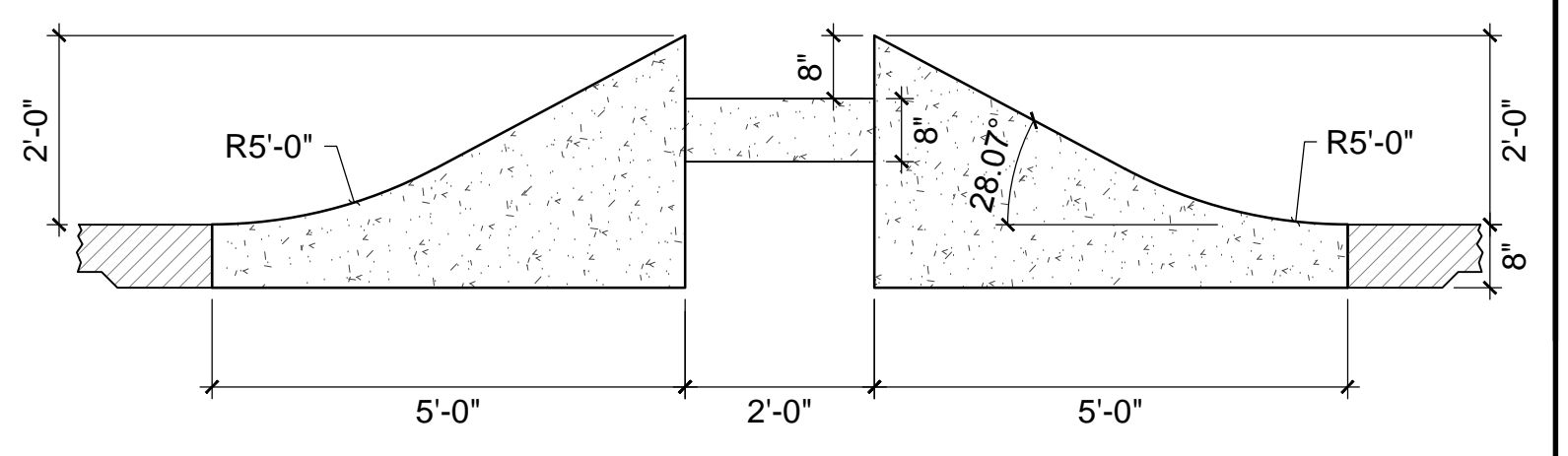
S38 SECTION
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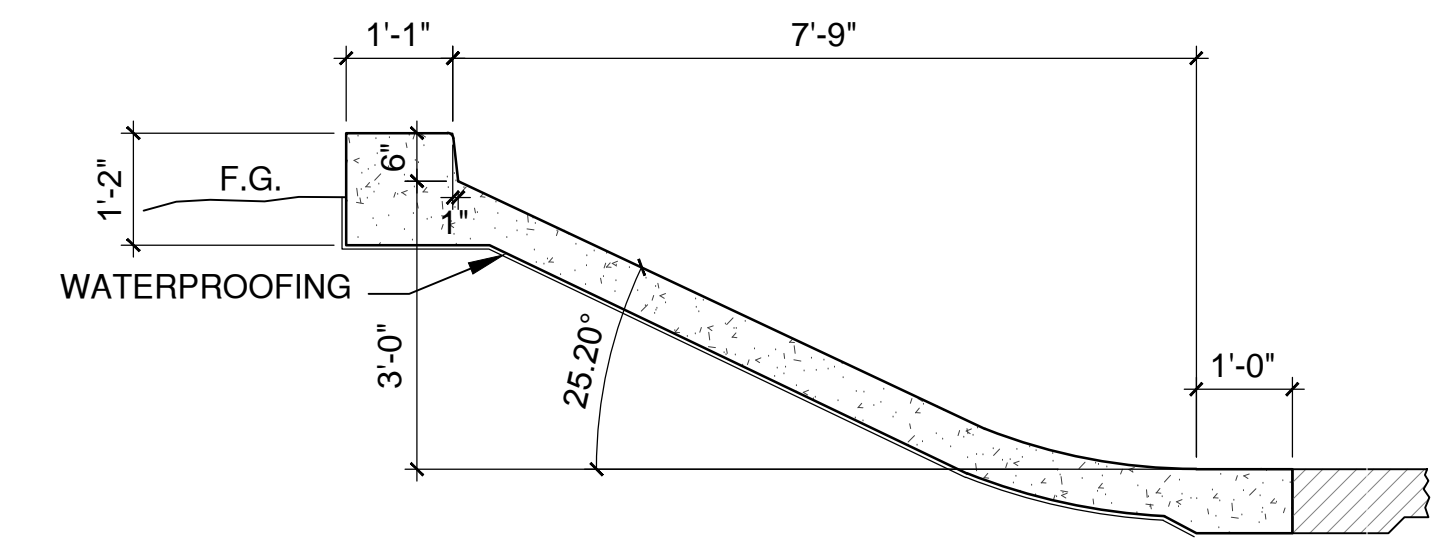
S43 SECTION
1/2"=1'-0"



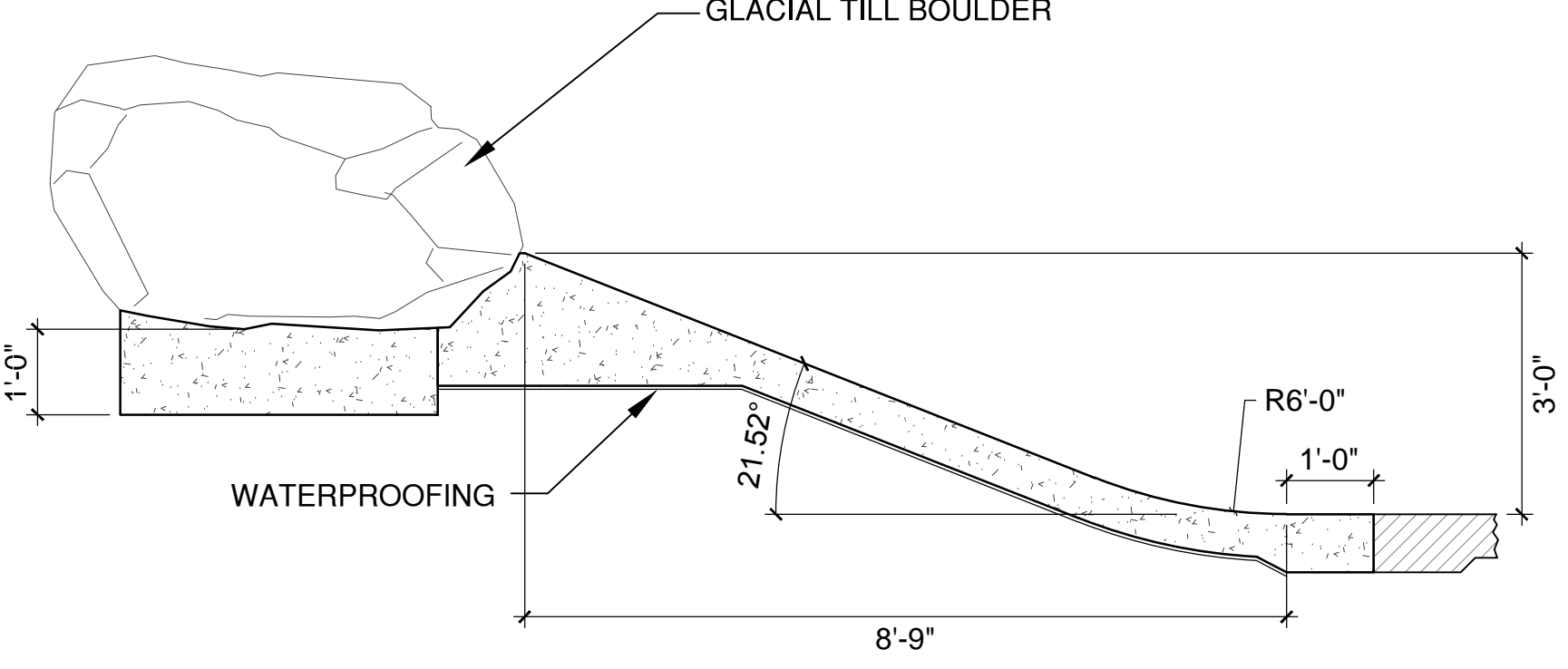
S42 SECTION
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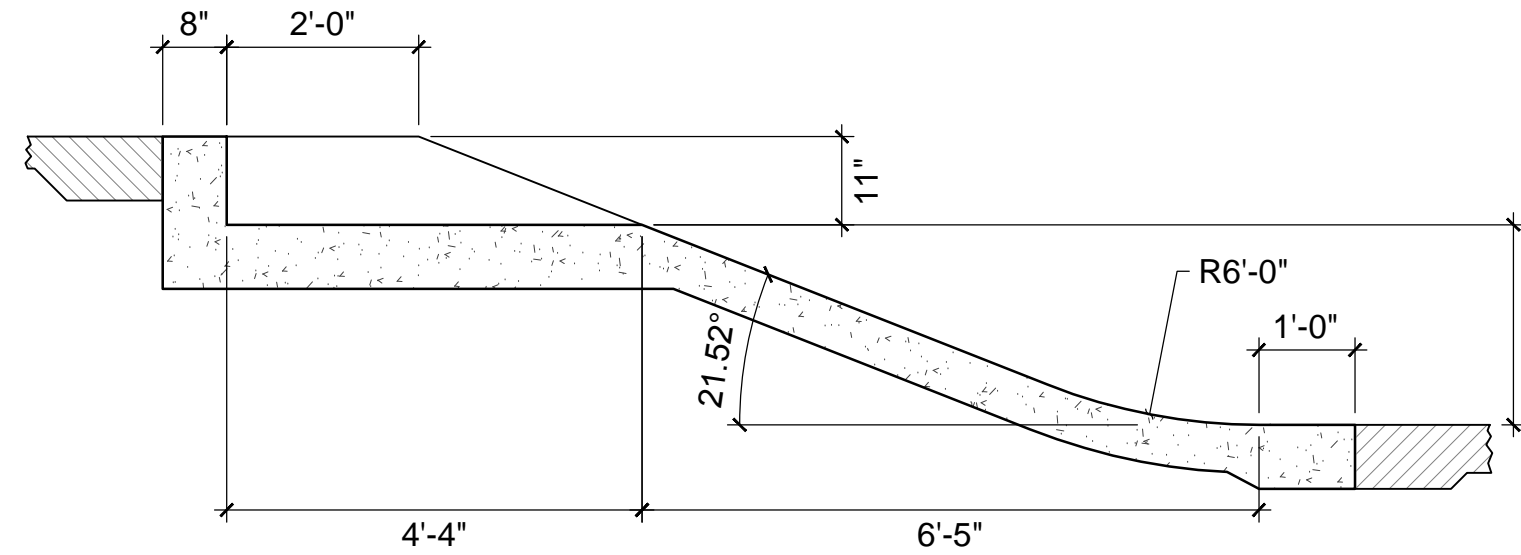
S41 SECTION
1/2"=1'-0"



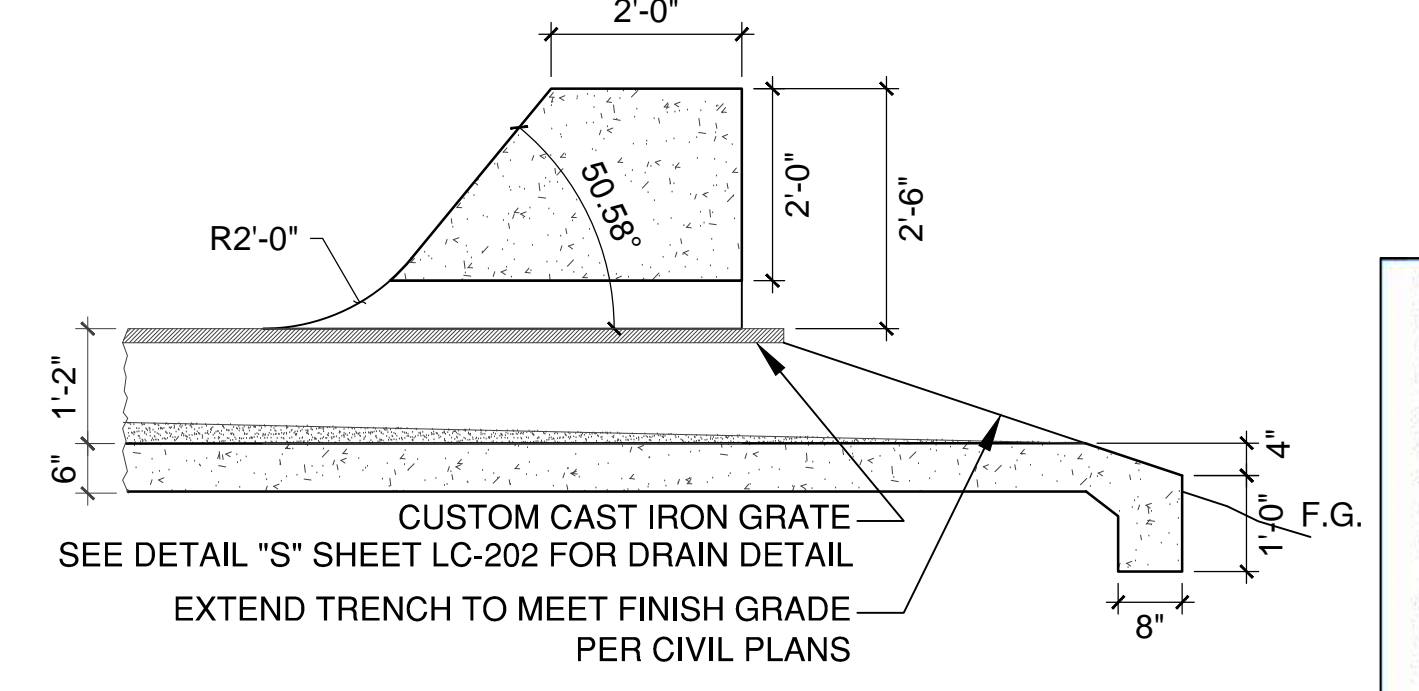
S47 SECTION
1/2"=1'-0"



S46 SECTION
1/2"=1'-0"



S45 SECTION
1/2"=1'-0"



S44 SECTION
1/2"=1'-0"

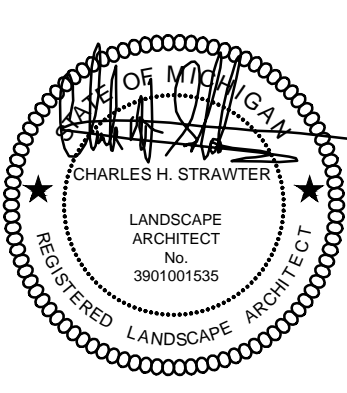
REVISIONS	BY
5/7/13	CHS

HOLLYDAY
design
skateparkdesign.com

CHARLES H. STRAWTER, D. REIGN, INC.
LANDSCAPE ARCHITECT
2150 JACKSON AVE., ANN ARBOR, MI 48106
734.769.1100
A Registered Prof. Landscape Arch. FL314

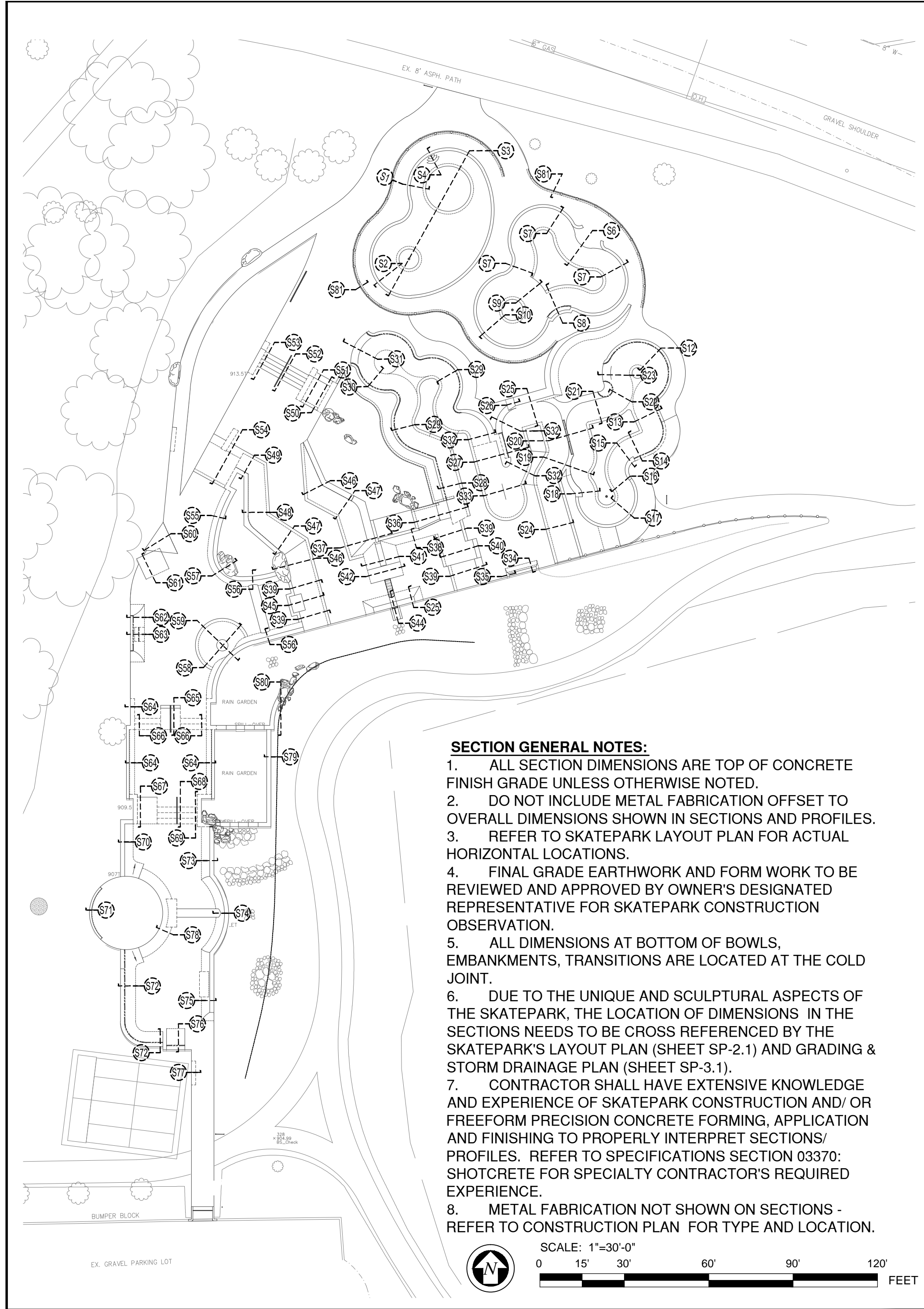
PROJECT: **ANN ARBOR SKATEPARK**
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION SECTIONS
SUBMITTAL: BID SET



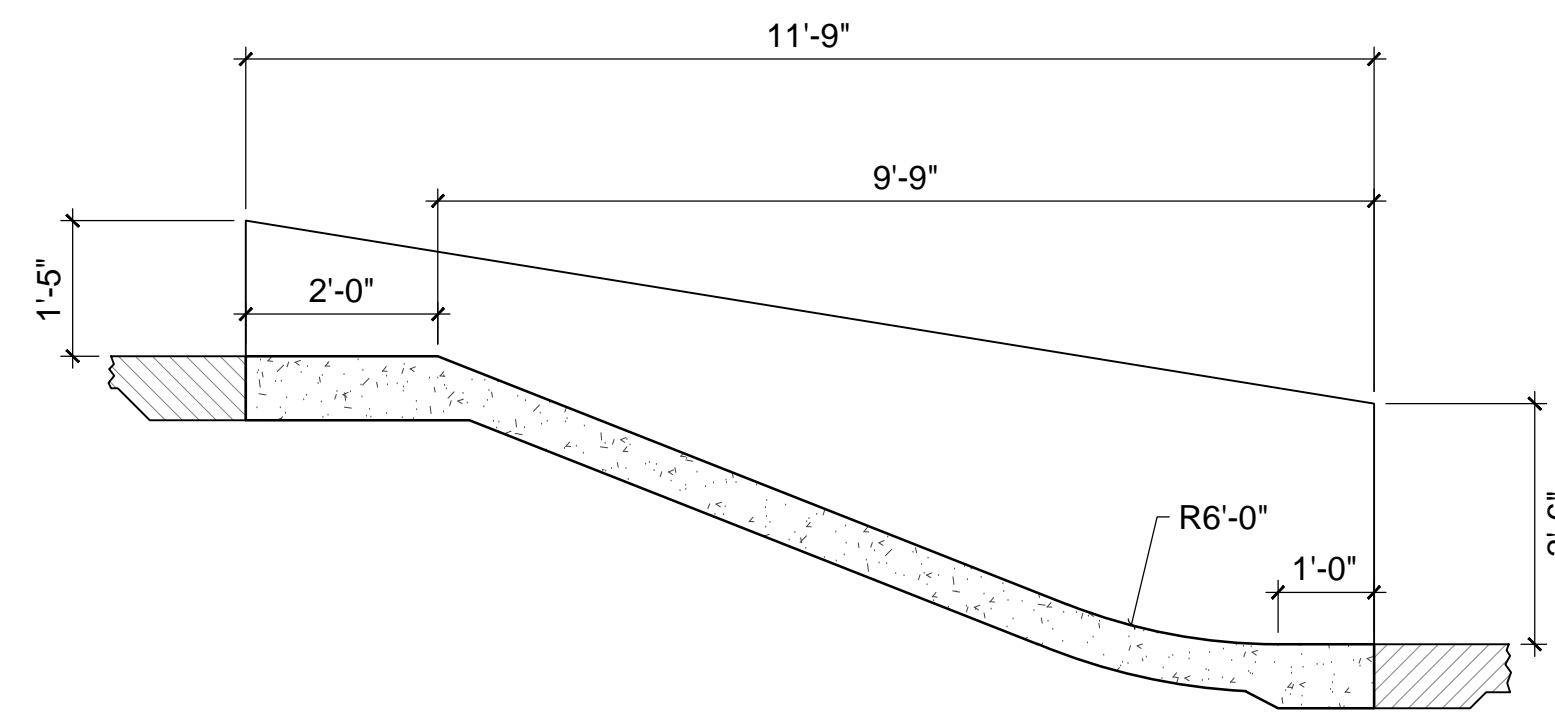
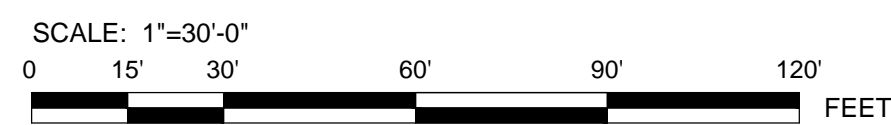
CLARB CERTIFIED
LANDSCAPE ARCHITECT

JOB NO. CSD1150-12
DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: **LC-305**
20 OF 23 SHEETS

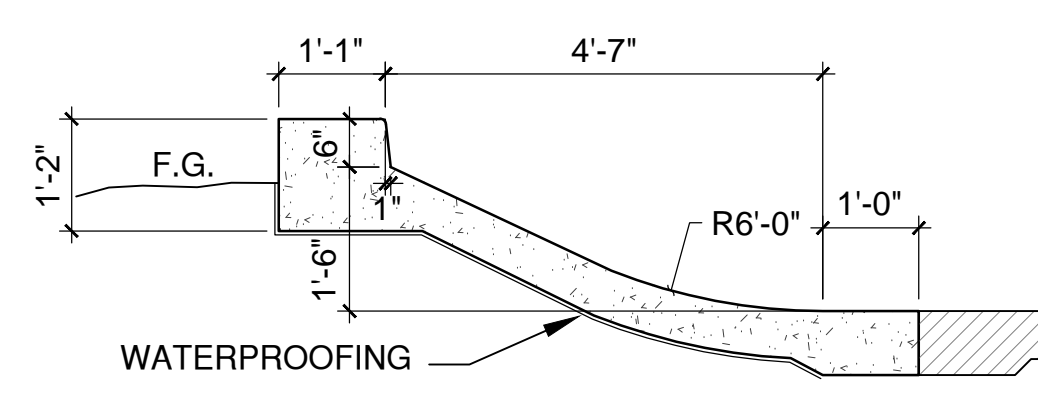


SECTION GENERAL NOTES:

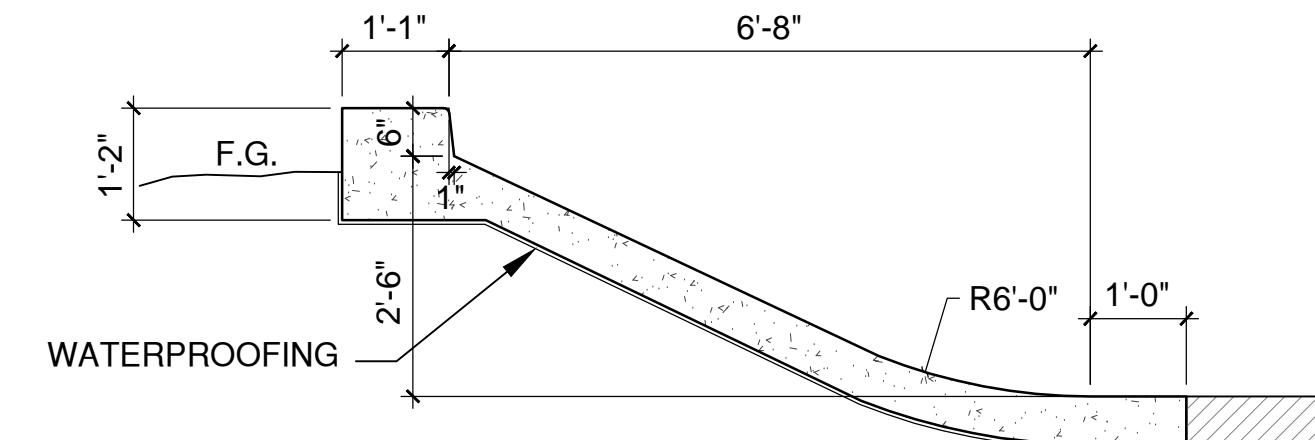
1. ALL SECTION DIMENSIONS ARE TOP OF CONCRETE FINISH GRADE UNLESS OTHERWISE NOTED.
2. DO NOT INCLUDE METAL FABRICATION OFFSET TO OVERALL DIMENSIONS SHOWN IN SECTIONS AND PROFILES.
3. REFER TO SKATEPARK LAYOUT PLAN FOR ACTUAL HORIZONTAL LOCATIONS.
4. FINAL GRADE EARTHWORK AND FORM WORK TO BE REVIEWED AND APPROVED BY OWNER'S DESIGNATED REPRESENTATIVE FOR SKATEPARK CONSTRUCTION OBSERVATION.
5. ALL DIMENSIONS AT BOTTOM OF BOWLS, EMBANKMENTS, TRANSITIONS ARE LOCATED AT THE COLD JOINT.
6. DUE TO THE UNIQUE AND SCULPTURAL ASPECTS OF THE SKATEPARK, THE LOCATION OF DIMENSIONS IN THE SECTIONS NEEDS TO BE CROSS REFERENCED BY THE SKATEPARK'S LAYOUT PLAN (SHEET SP-2.1) AND GRADING & STORM DRAINAGE PLAN (SHEET SP-3.1).
7. CONTRACTOR SHALL HAVE EXTENSIVE KNOWLEDGE AND EXPERIENCE OF SKATEPARK CONSTRUCTION AND/OR FREEFORM PRECISION CONCRETE FORMING, APPLICATION AND FINISHING TO PROPERLY INTERPRET SECTIONS/ PROFILES. REFER TO SPECIFICATIONS SECTION 03370: SHOTCRETE FOR SPECIALTY CONTRACTOR'S REQUIRED EXPERIENCE.
8. METAL FABRICATION NOT SHOWN ON SECTIONS - REFER TO CONSTRUCTION PLAN FOR TYPE AND LOCATION.



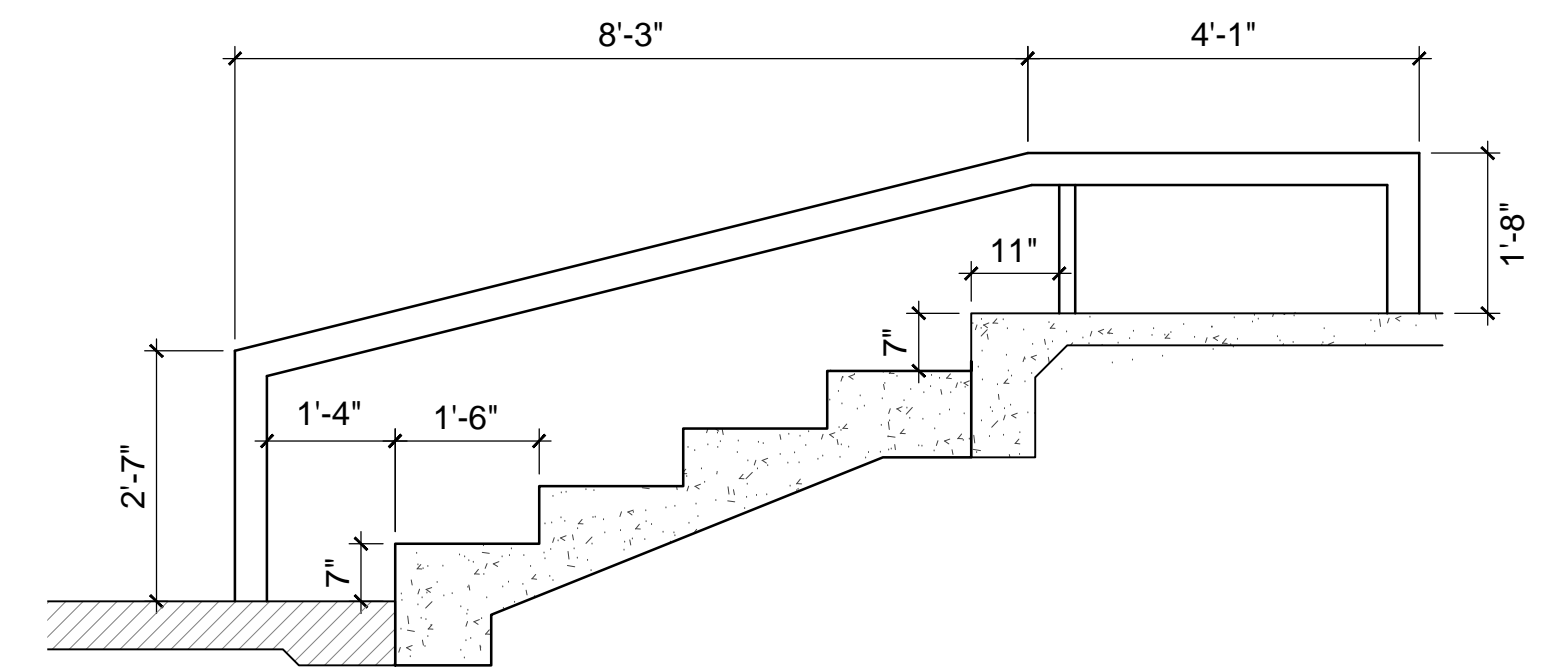
S50 SECTION
1/2"=1'-0"



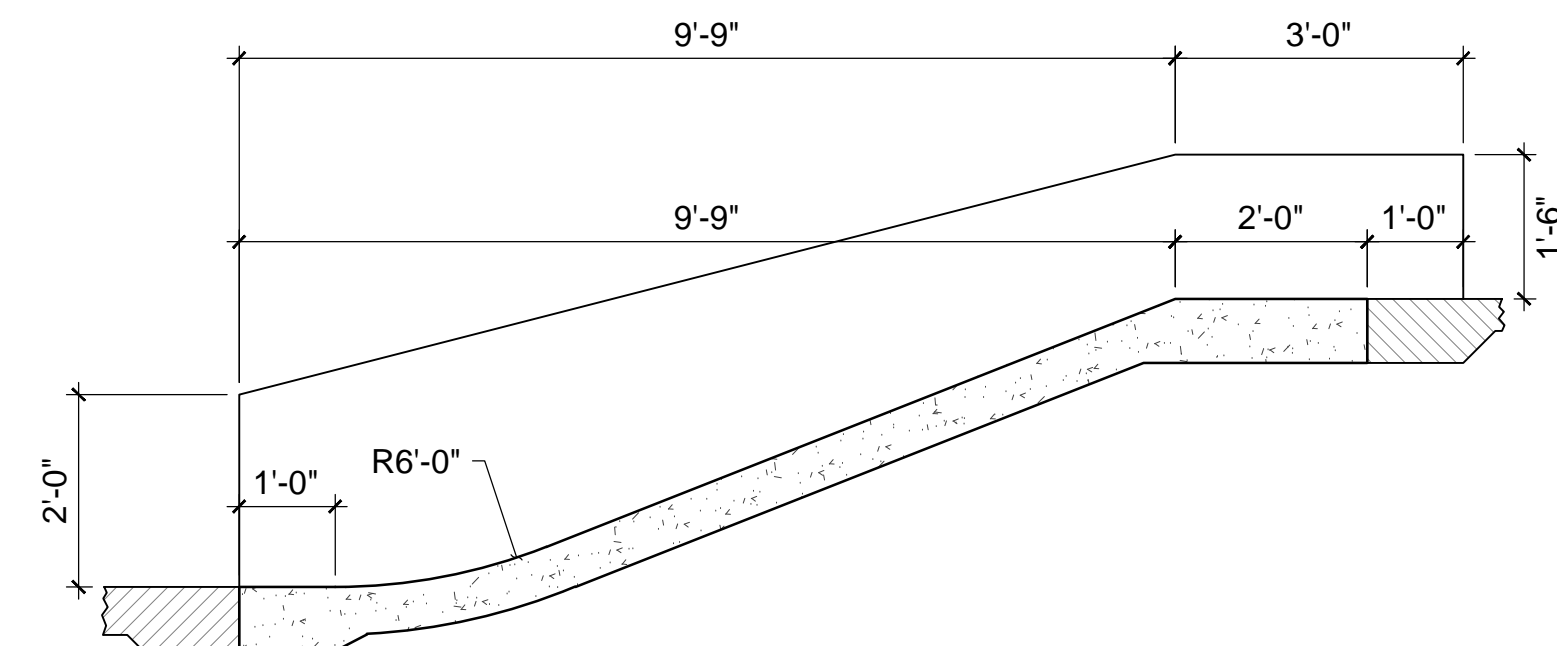
S49 SECTION
1/2"=1'-0"



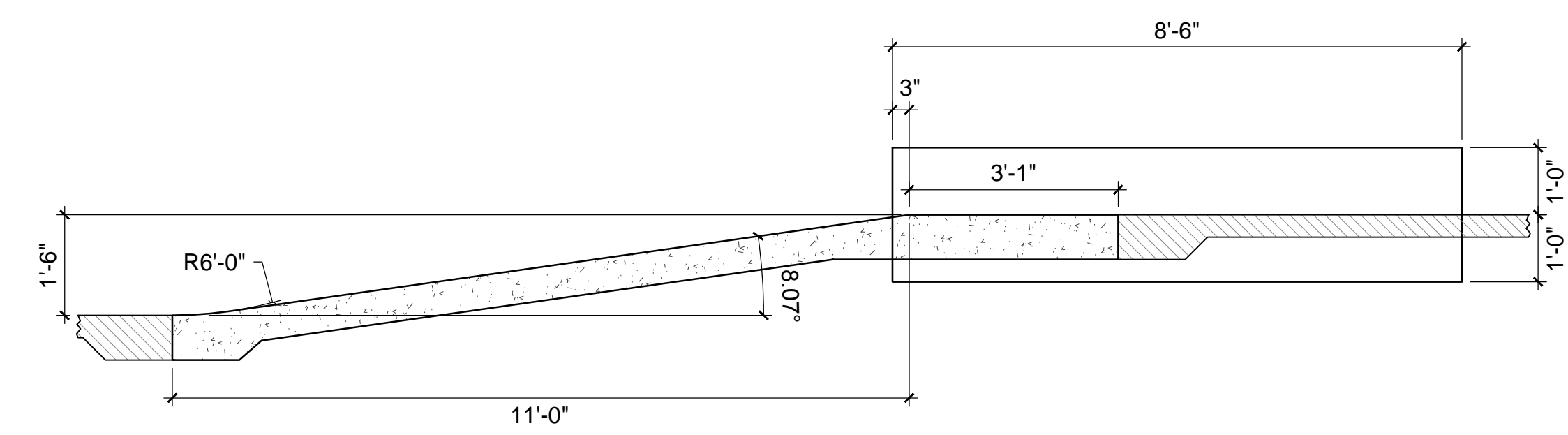
S48 SECTION
1/2"=1'-0"



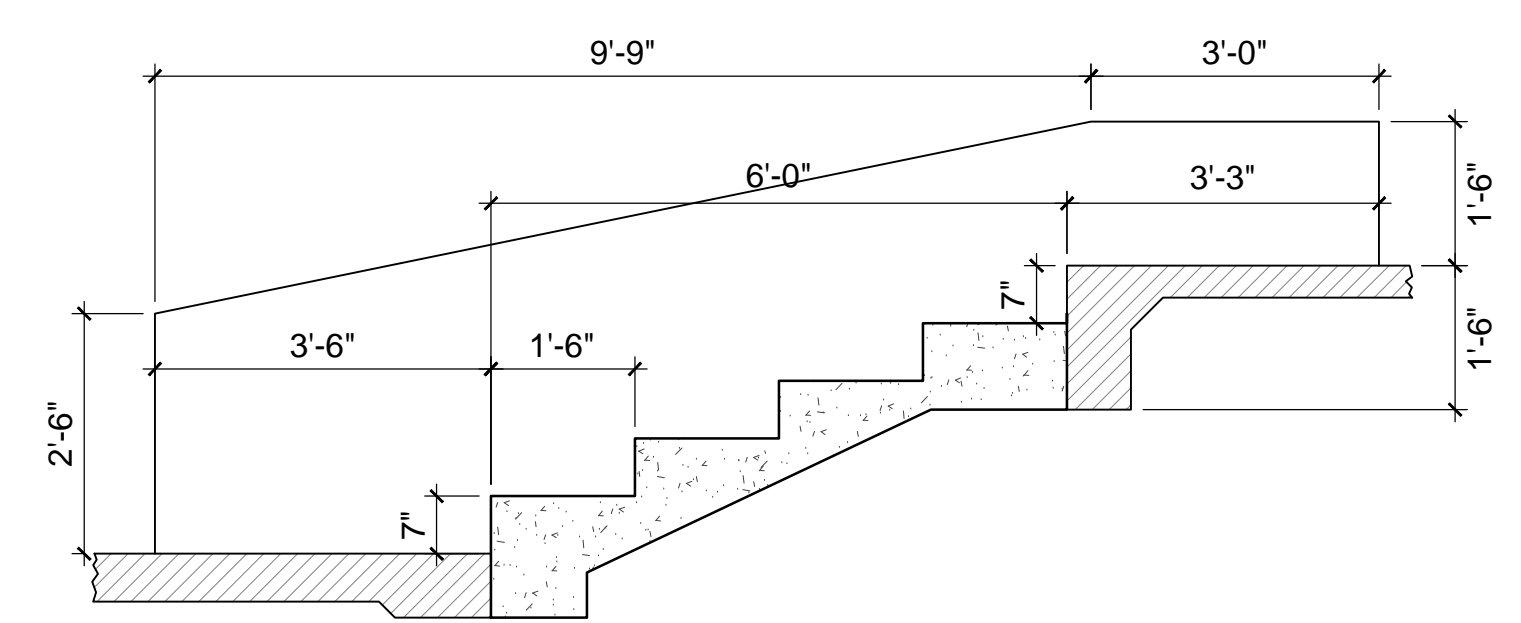
S52 SECTION
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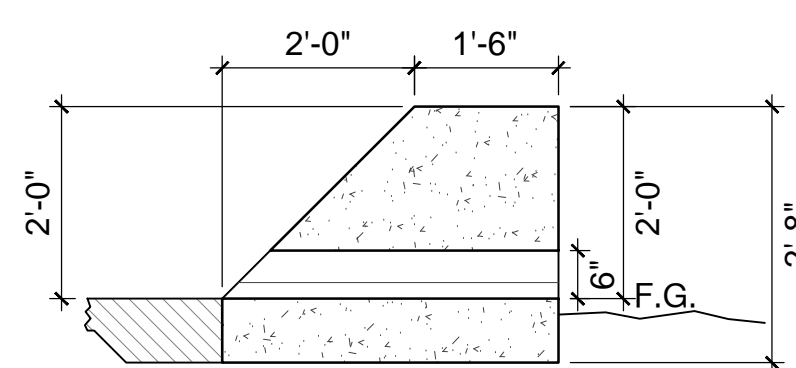
S51 SECTION
1/2"=1'-0"



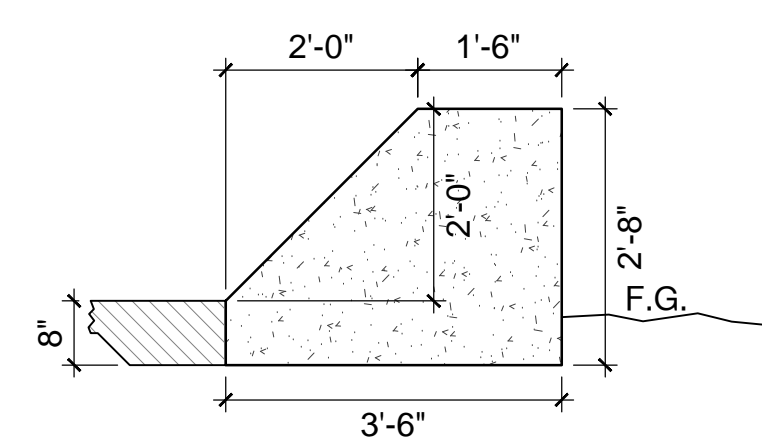
S54 SECTION
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S53 SECTION
1/2"=1'-0"



S56 SECTION
1/2"=1'-0"



S55 SECTION
1/2"=1'-0"

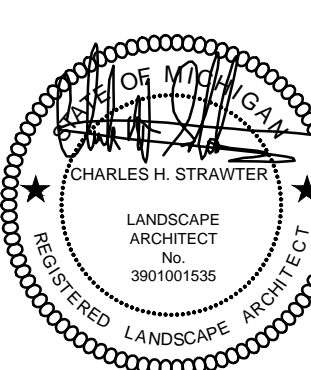
REVISIONS	BY
5/7/13	CHS



CHARLES H. STRAWTER, D. BEIGH, INC.
LANDSCAPE ARCHITECTS
2150 JACKSON AVE., ANN ARBOR, MI 48106
P.L.L.C.
A Registered Prof. Landscape Arch. #1314

PROJECT: ANN ARBOR SKATEPARK
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION SECTIONS
SUBMITTAL: BID SET



JOB NO. CSD1150-12
DATE: 04-16-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: LC-306
21 OF 23 SHEETS

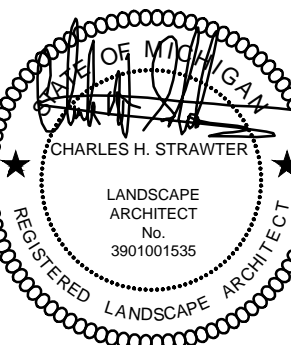
REVISIONS	BY
5/7/13	CHS



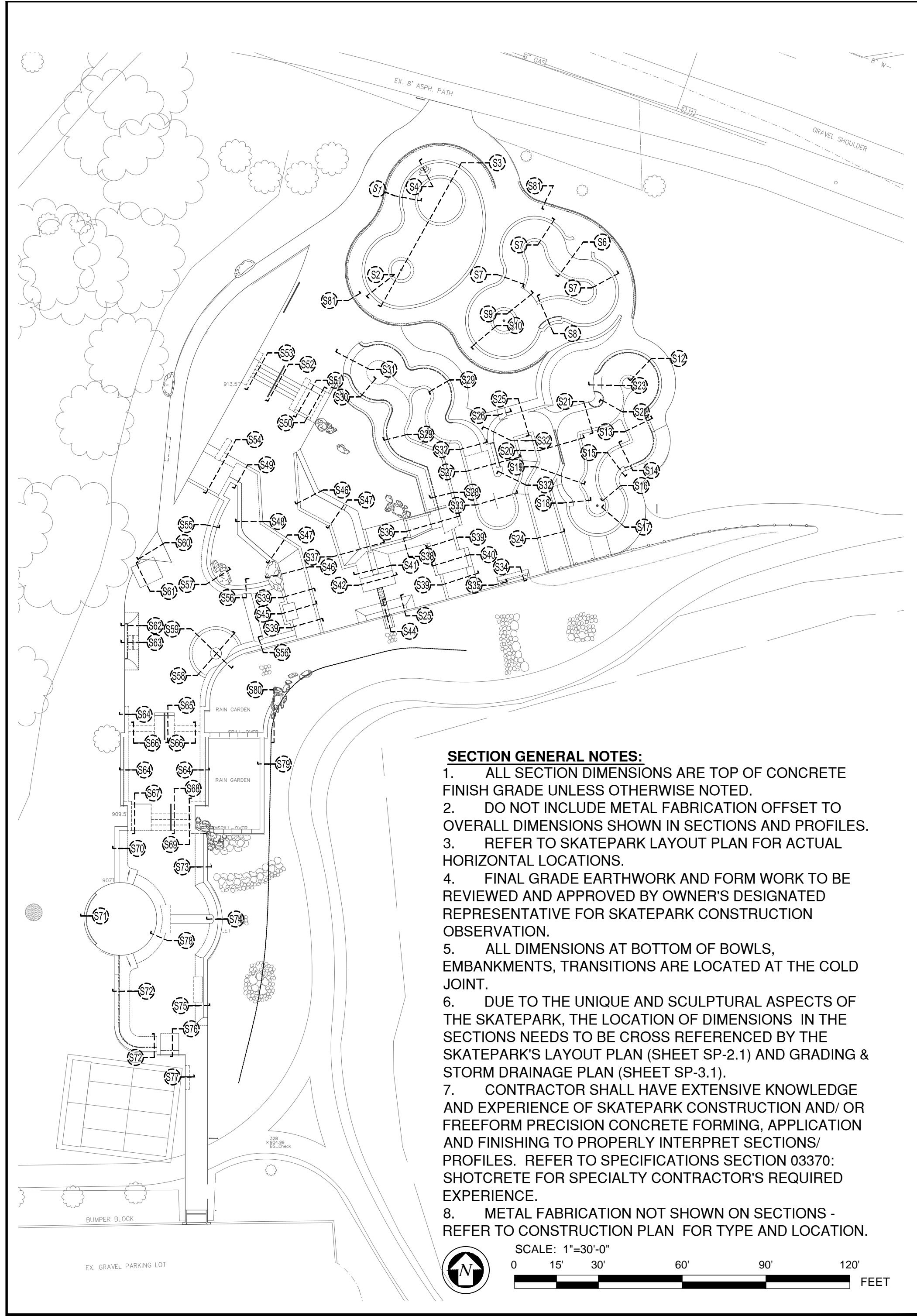
CHARLES H. STRAWTER, D. BEIGH, INC.
 LANDSCAPE ARCHITECTS
 1500 W. LANSING BLVD., SUITE 200
 LANSING, MI 48202
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 WWW.CHARLESSTRAWTER.COM
 A Registered Prof. Landscape Arch. #1314

PROJECT: ANN ARBOR SKATEPARK
 CITY OF ANN ARBOR, MICHIGAN
 VETERANS MEMORIAL PARK
 2150 JACKSON AVE., ANN ARBOR, MI

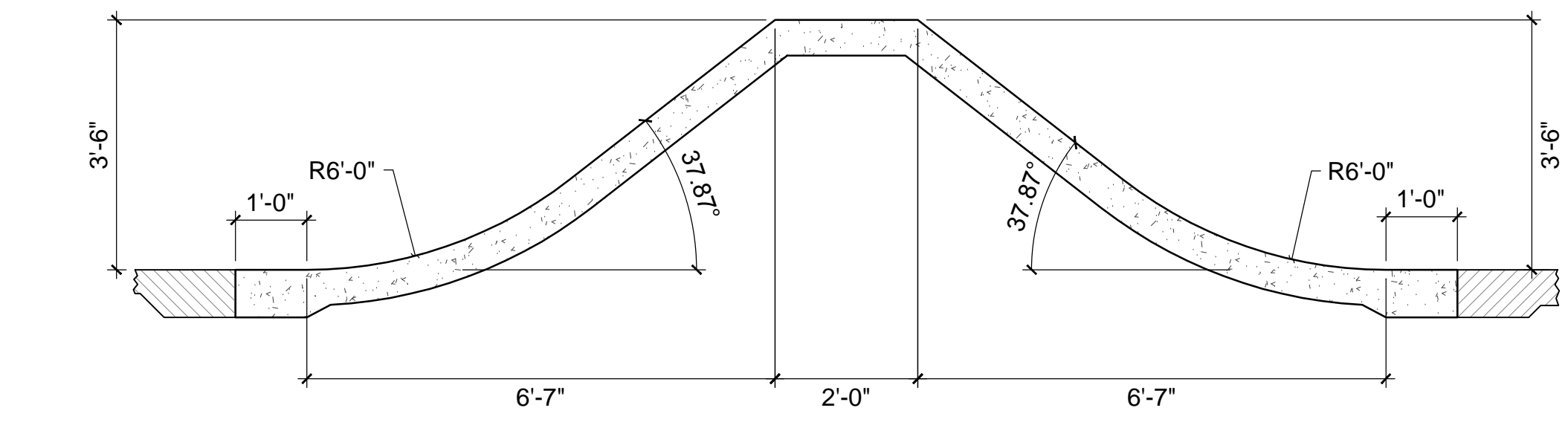
SHEET TITLE: CONSTRUCTION SECTIONS
 SUBMITTAL: BID SET



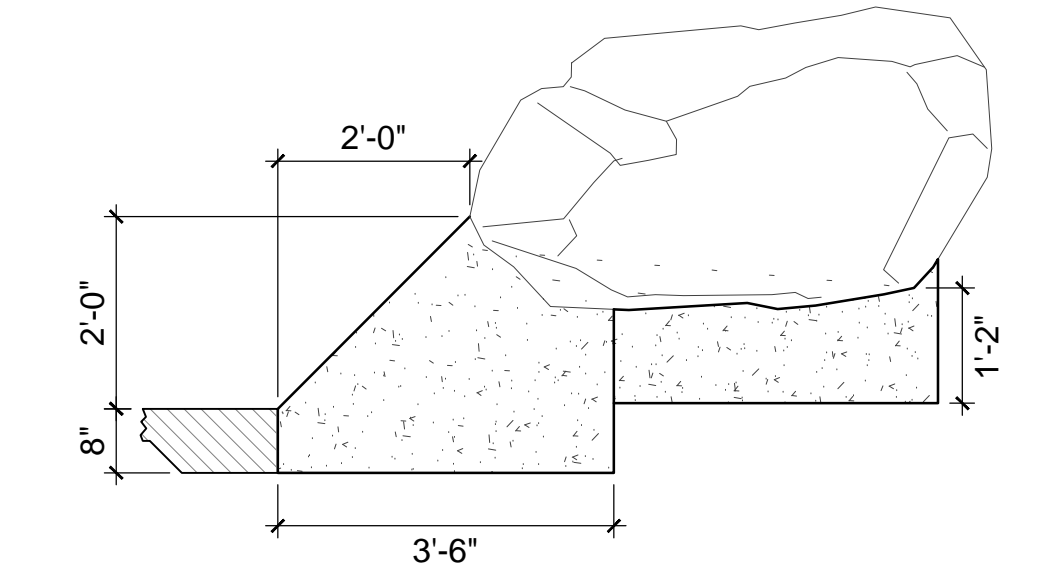
JOB NO. CSD1150-12
 DATE: 04-16-2013
 SCALE: PER PLAN
 DRAWN: CHS
 SHEET: LC-307
 22 OF 23 SHEETS



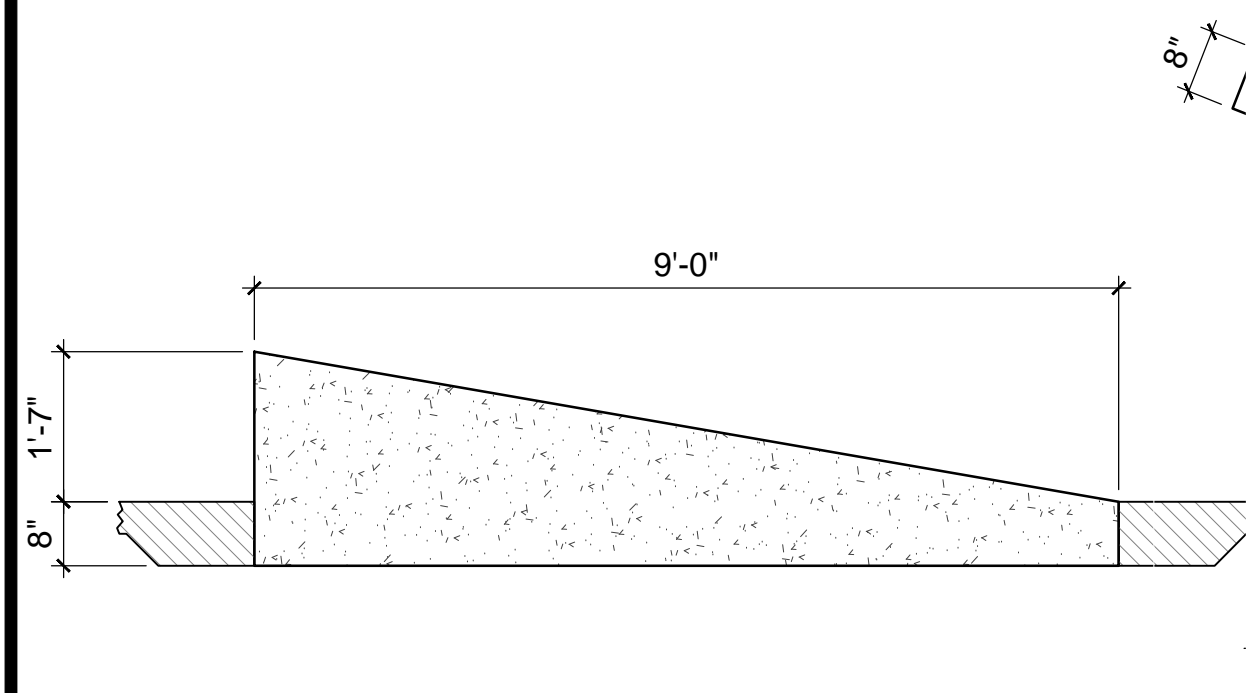
- SECTION GENERAL NOTES:**
- ALL SECTION DIMENSIONS ARE TOP OF CONCRETE FINISH GRADE UNLESS OTHERWISE NOTED.
 - DO NOT INCLUDE METAL FABRICATION OFFSET TO OVERALL DIMENSIONS SHOWN IN SECTIONS AND PROFILES.
 - REFER TO SKATEPARK LAYOUT PLAN FOR ACTUAL HORIZONTAL LOCATIONS.
 - FINAL GRADE EARTHWORK AND FORM WORK TO BE REVIEWED AND APPROVED BY OWNER'S DESIGNATED REPRESENTATIVE FOR SKATEPARK CONSTRUCTION OBSERVATION.
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 - CONTRACTOR SHALL HAVE EXTENSIVE KNOWLEDGE AND EXPERIENCE OF SKATEPARK CONSTRUCTION AND/OR FREEFORM PRECISION CONCRETE FORMING, APPLICATION AND FINISHING TO PROPERLY INTERPRET SECTIONS/PROFILES. REFER TO SPECIFICATIONS SECTION 03370: SHOTCRETE FOR SPECIALTY CONTRACTOR'S REQUIRED EXPERIENCE.
 - METAL FABRICATION NOT SHOWN ON SECTIONS - REFER TO CONSTRUCTION PLAN FOR TYPE AND LOCATION.



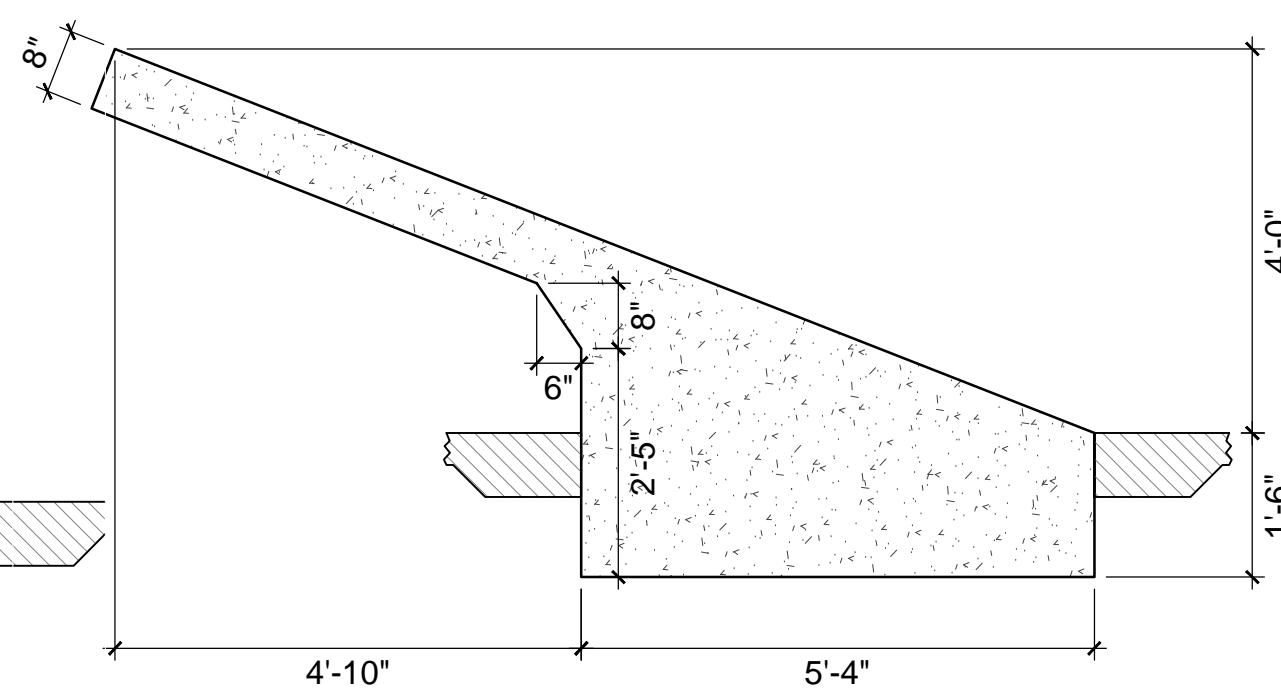
S58 SECTION
 1/2"=1'-0"



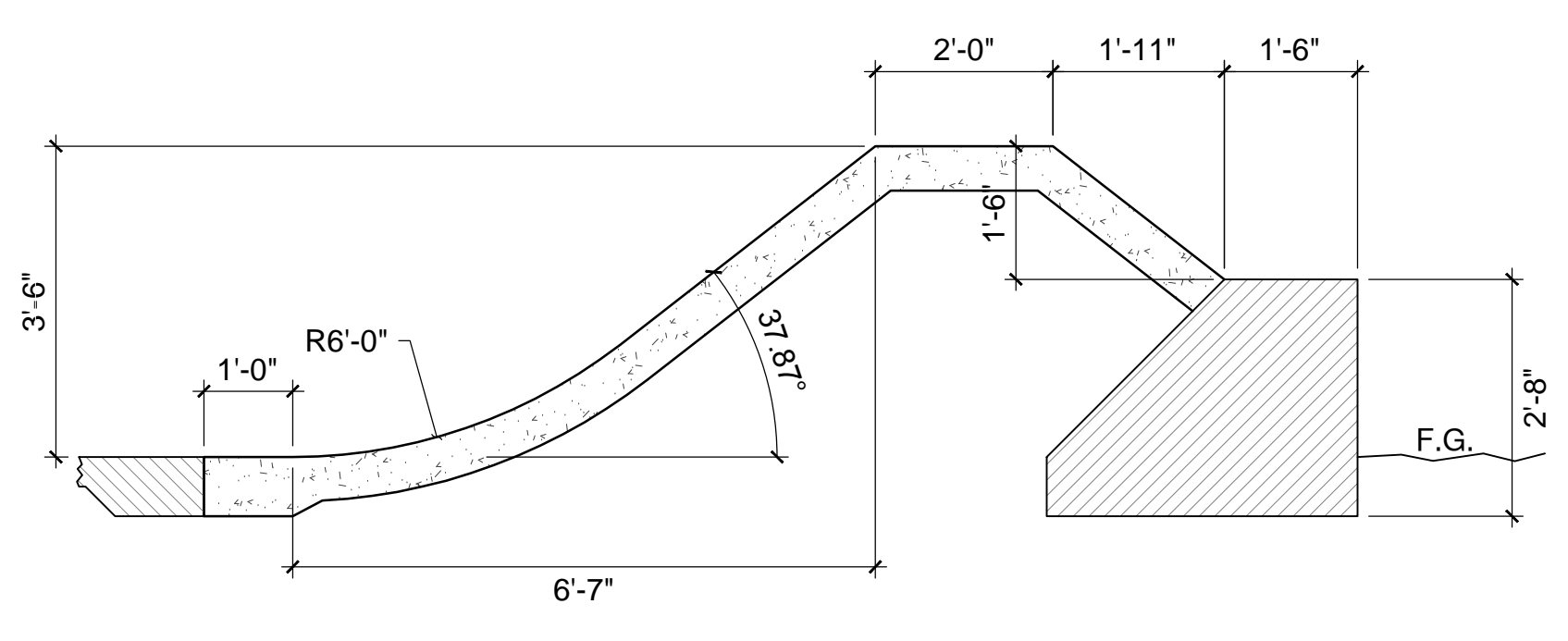
S57 SECTION
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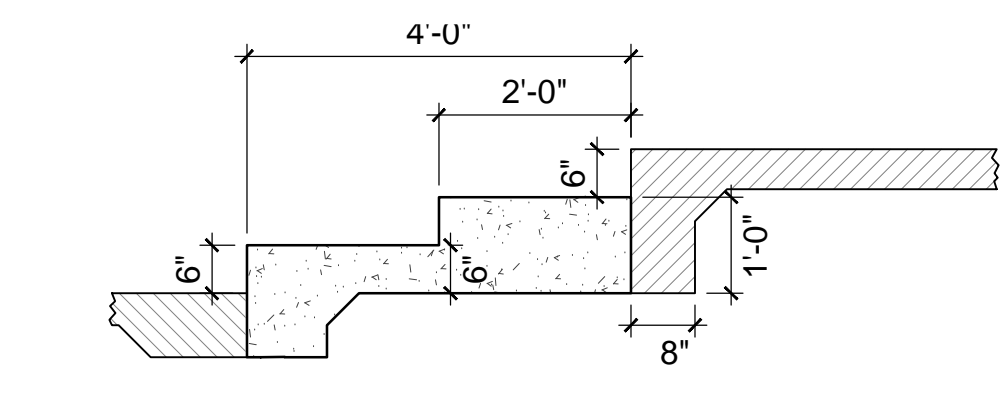
S61 SECTION
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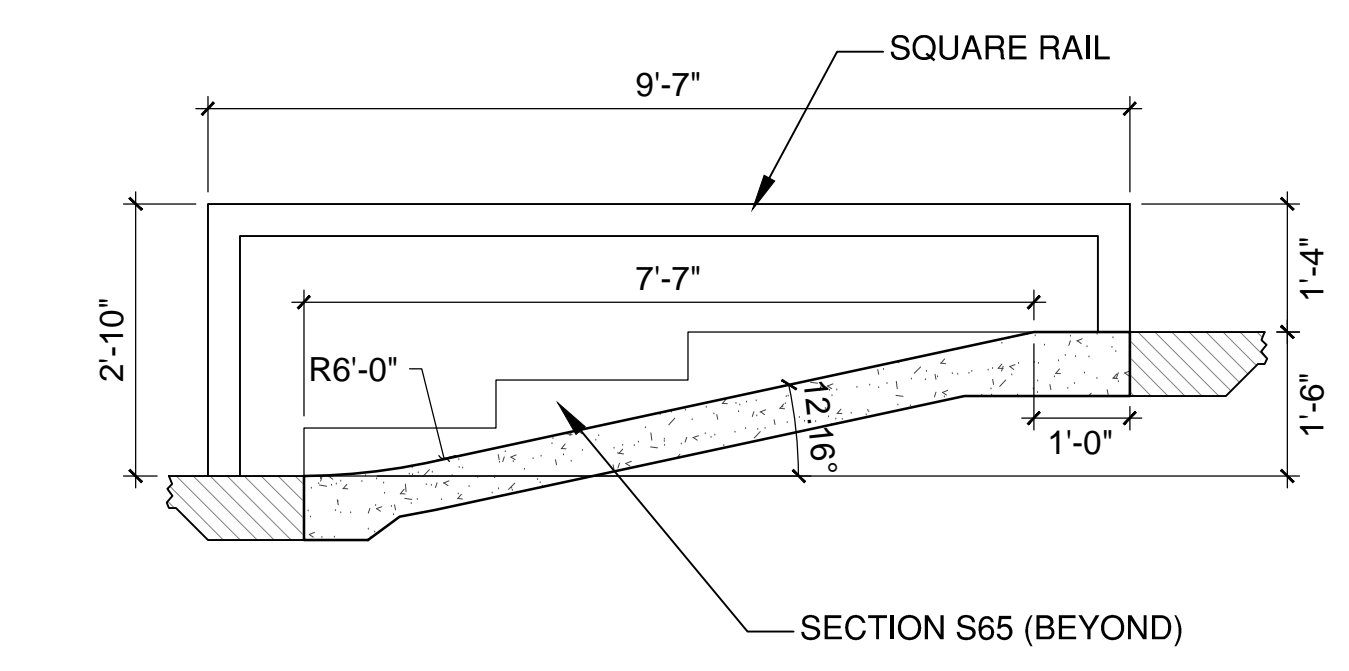
S60 SECTION
 1/2"=1'-0"



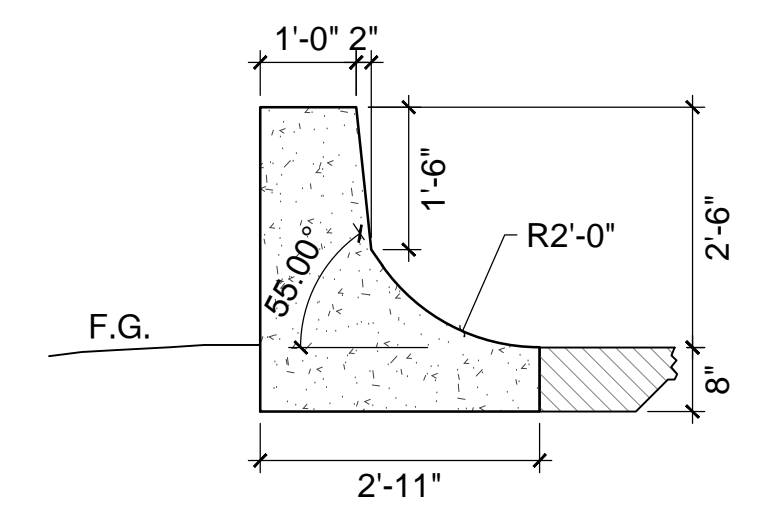
S59 SECTION
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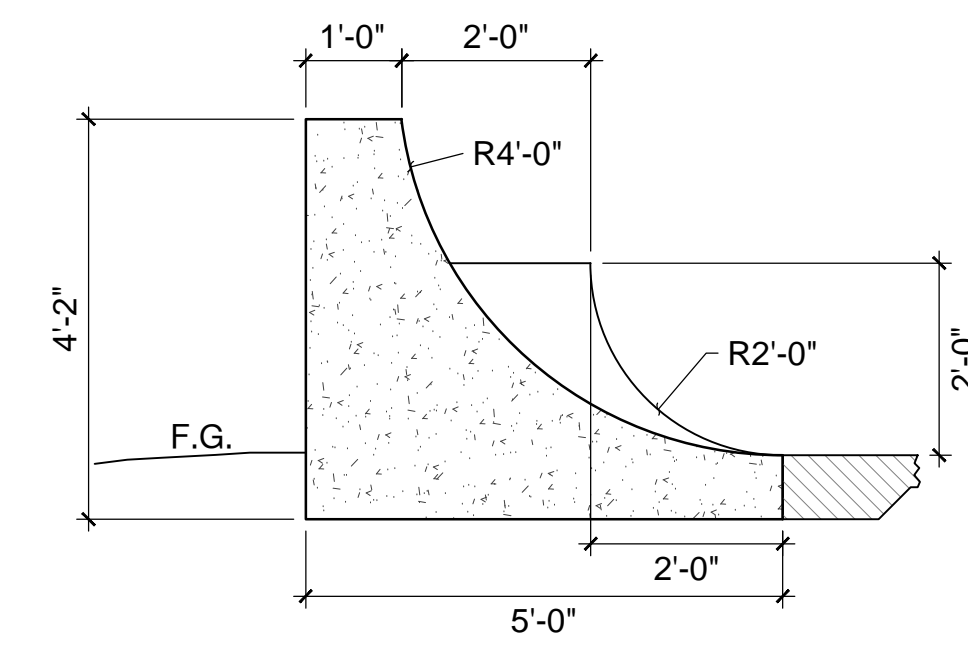
S66 SECTION
 1/2"=1'-0"



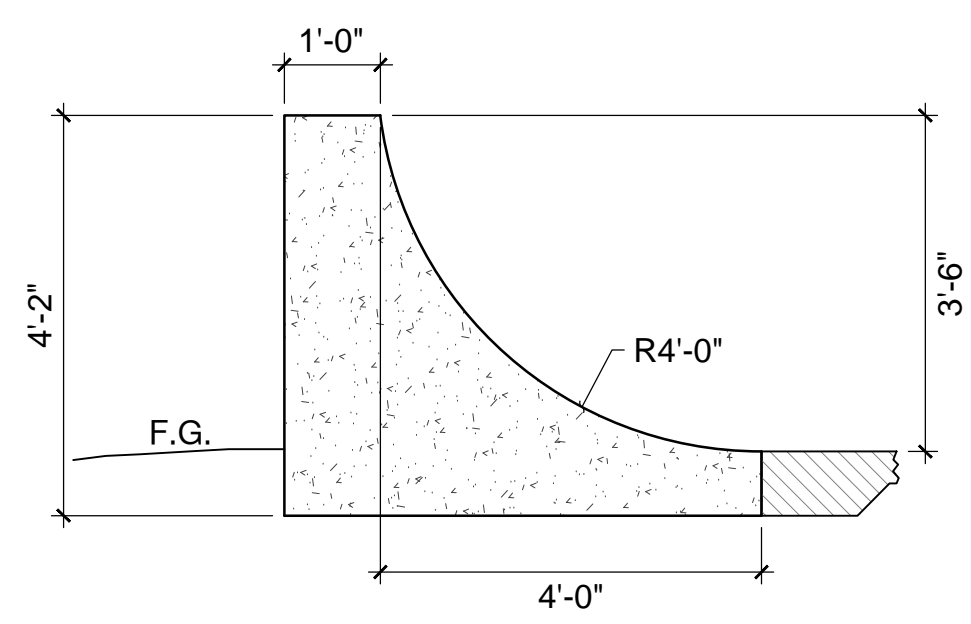
S65 SECTION
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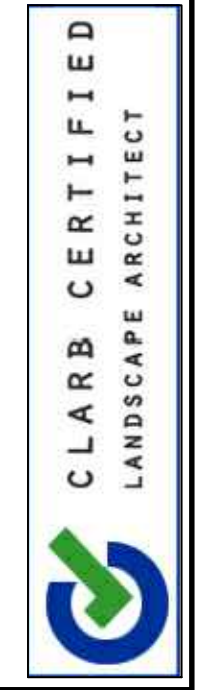
S64 SECTION
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S63 SECTION
 1/2"=1'-0"



S62 SECTION
 1/2"=1'-0"



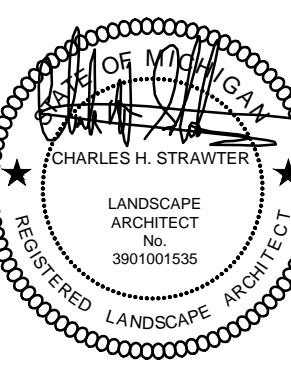
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 LANDSCAPE ARCHITECT
 2150 JACOBSON AVE., ANN ARBOR, MI 48106
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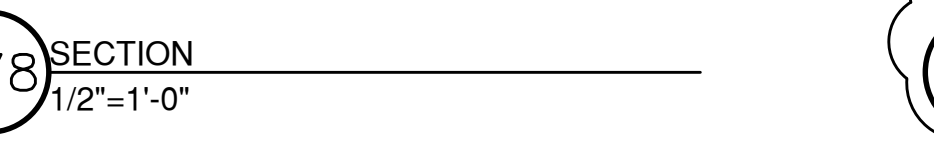
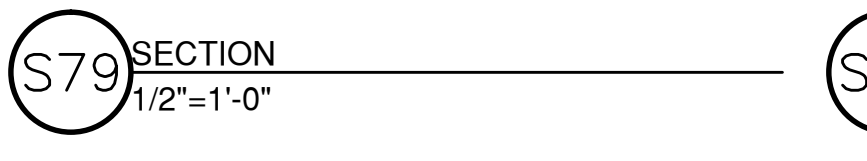
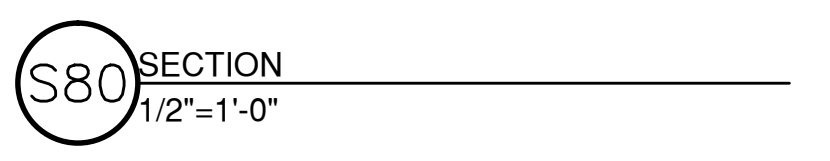
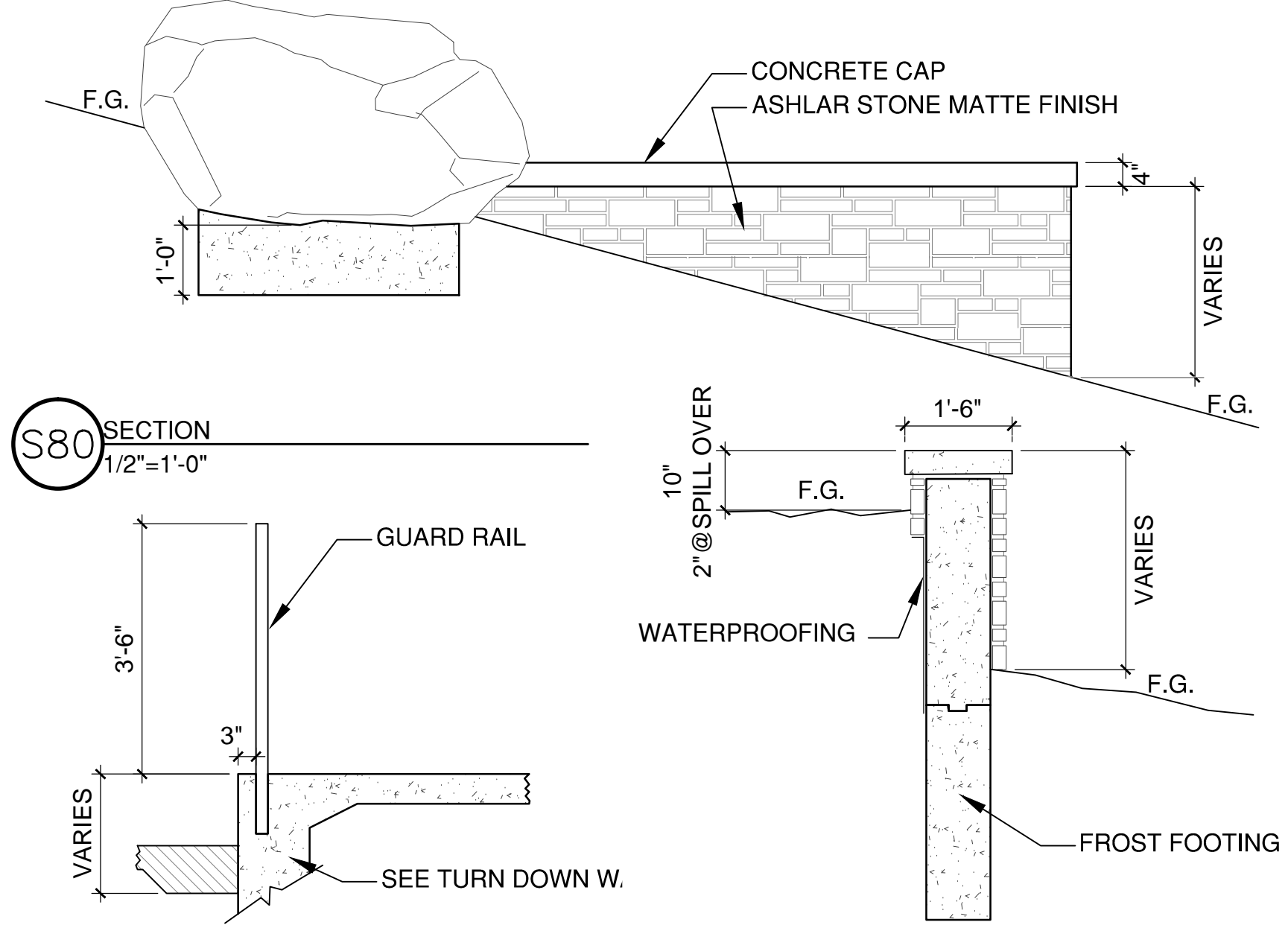
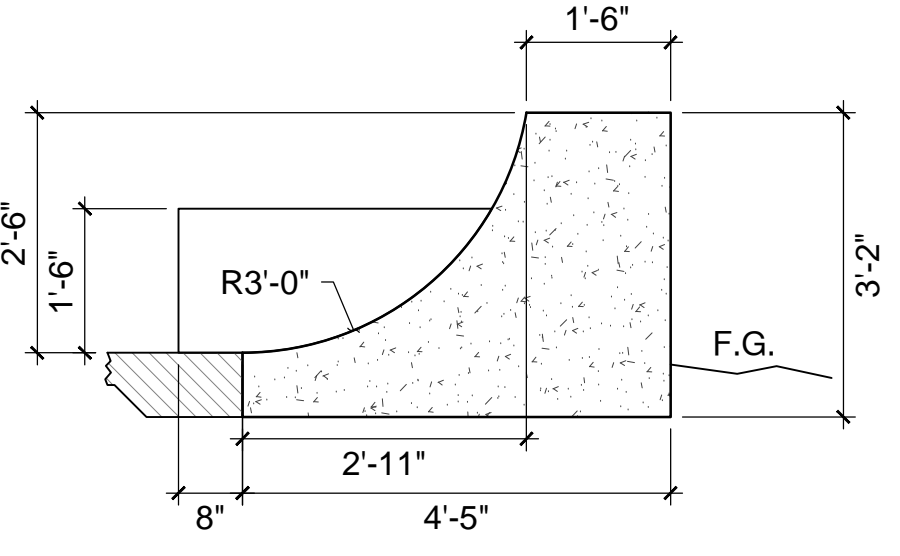
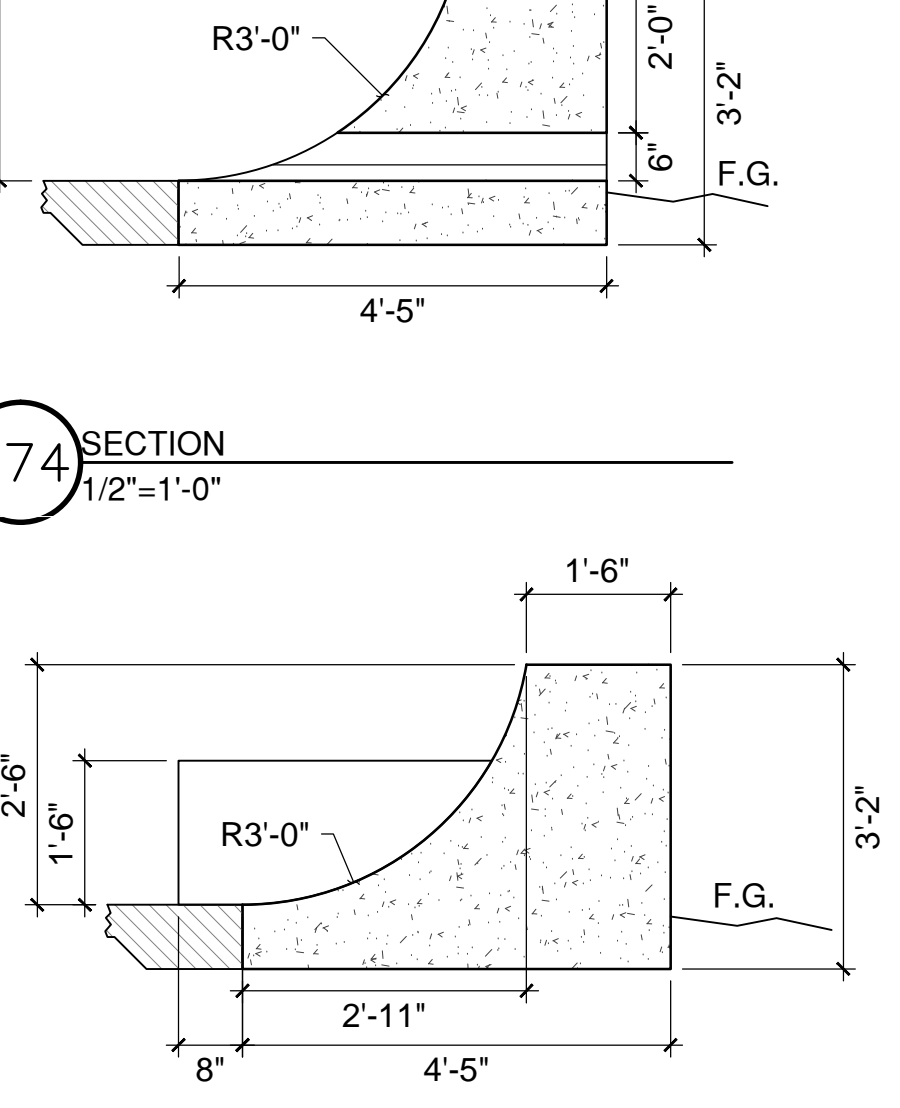
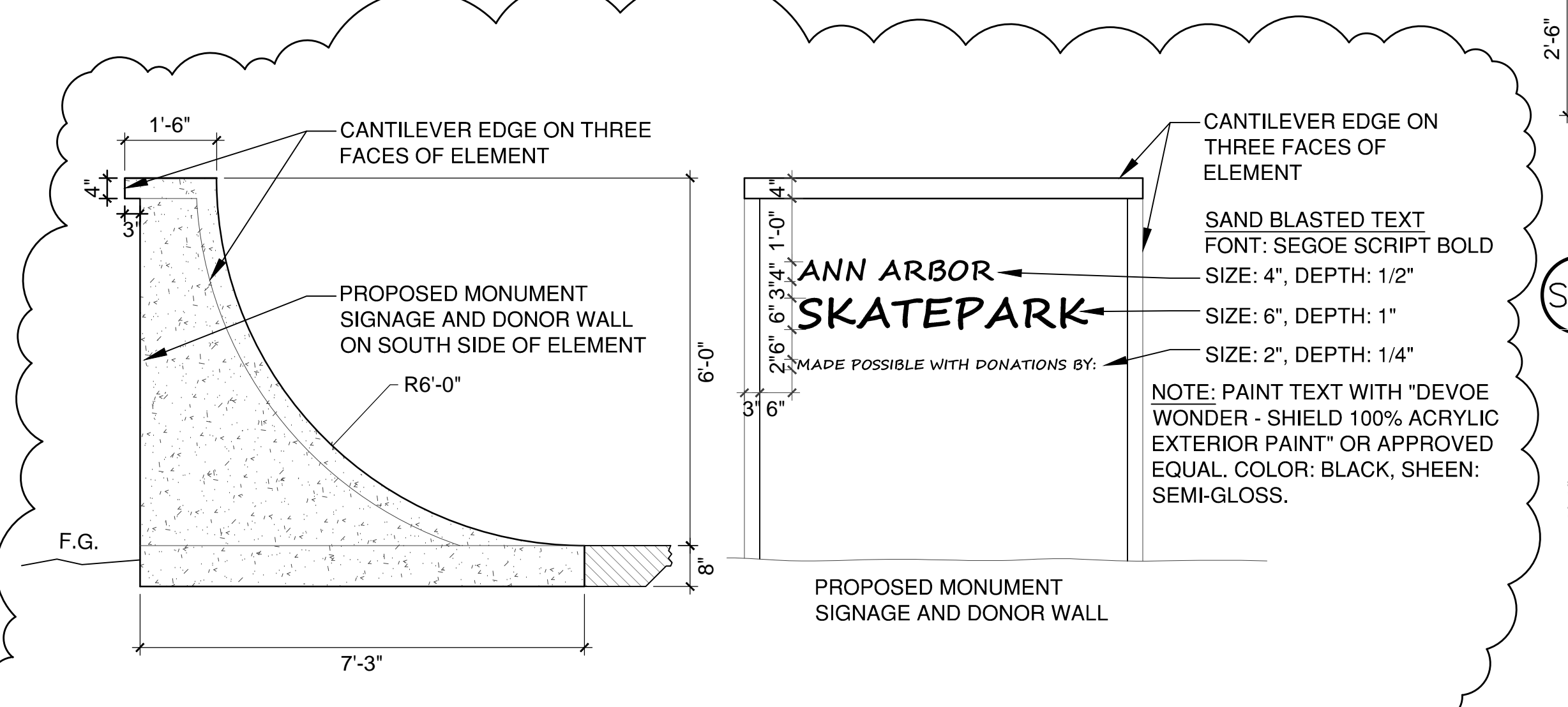
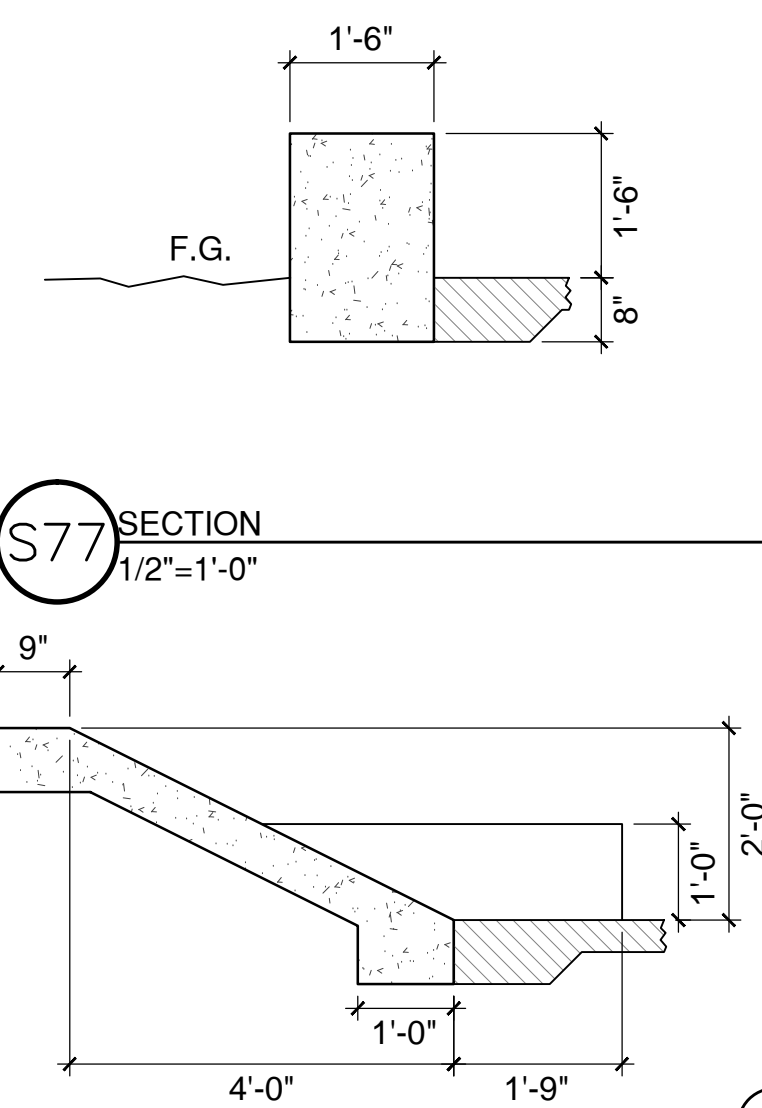
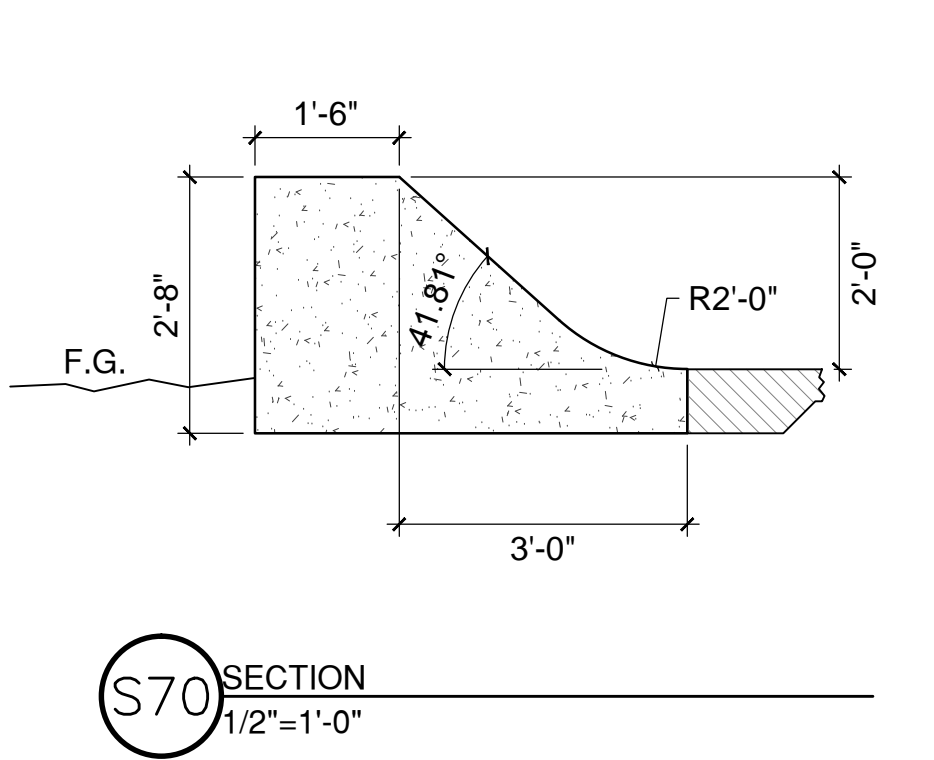
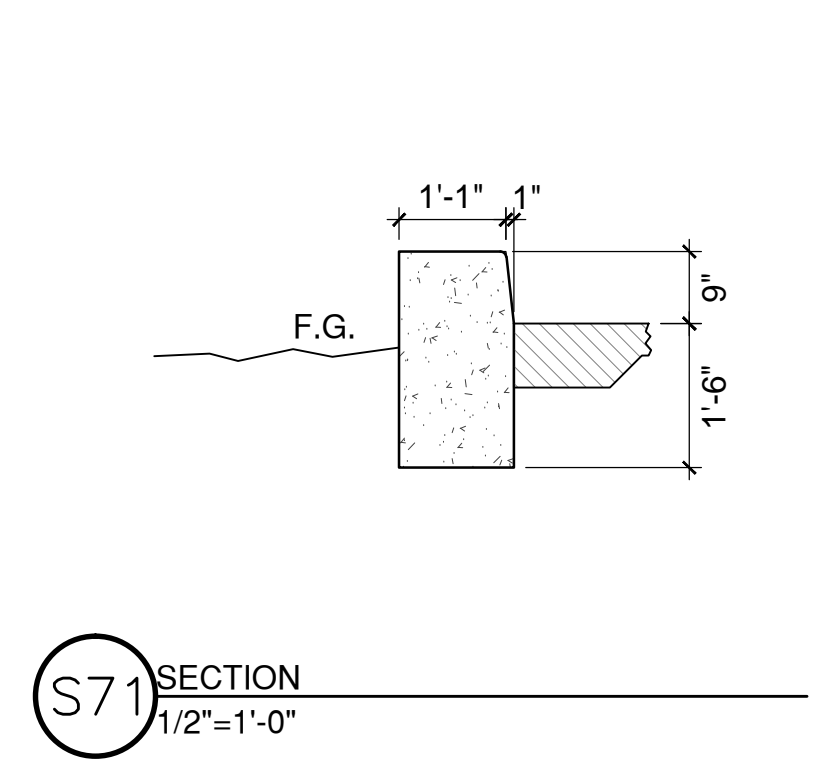
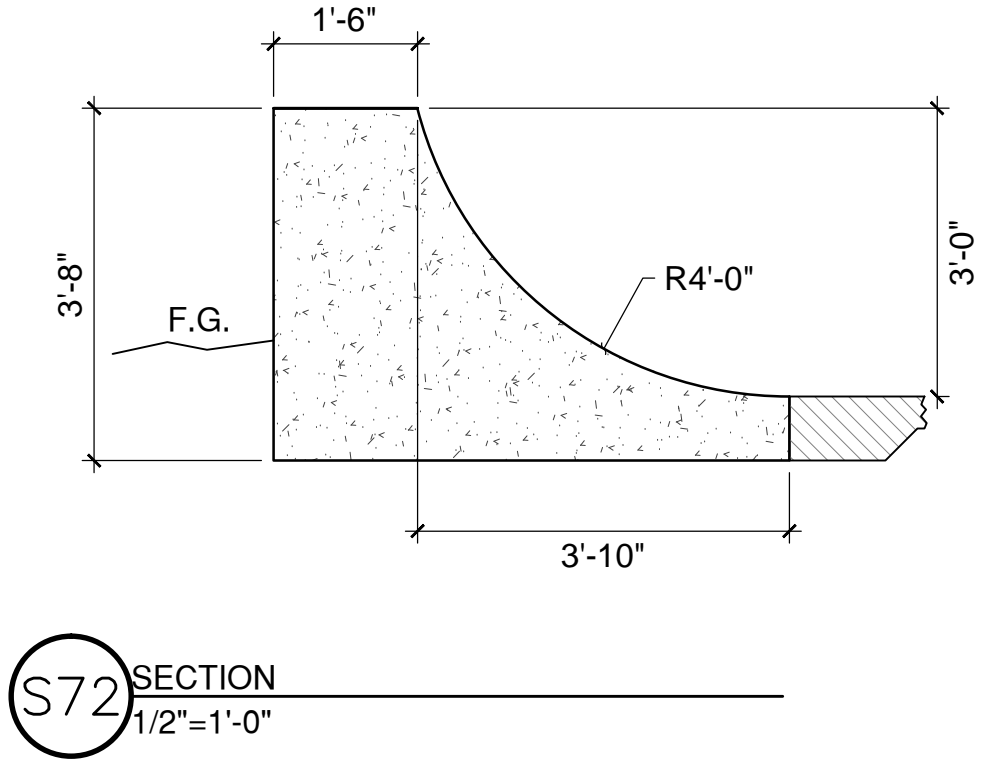
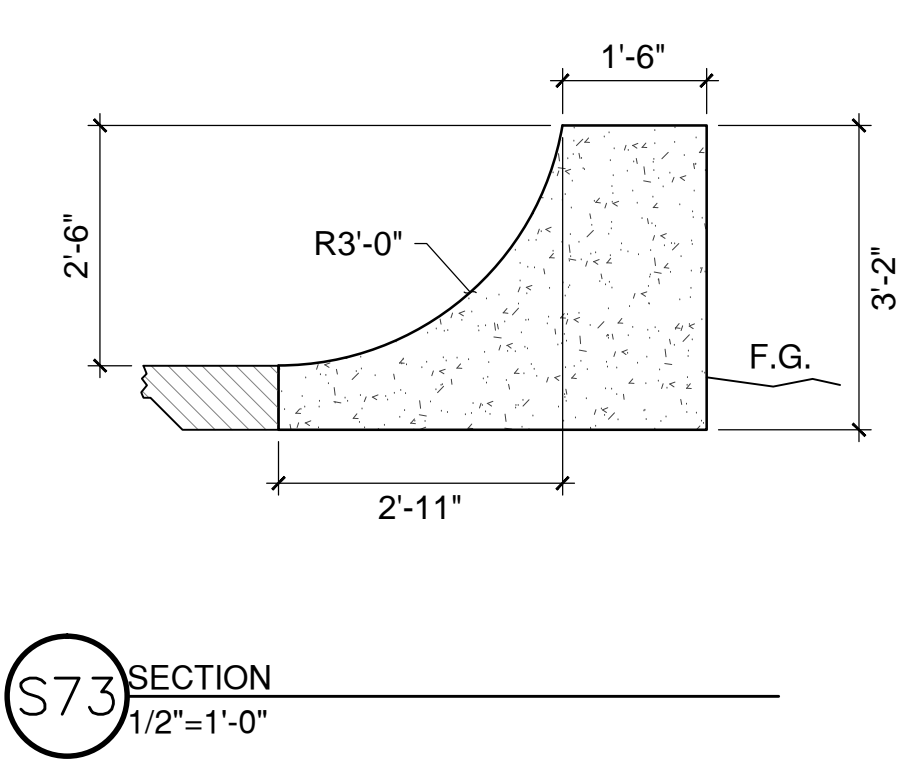
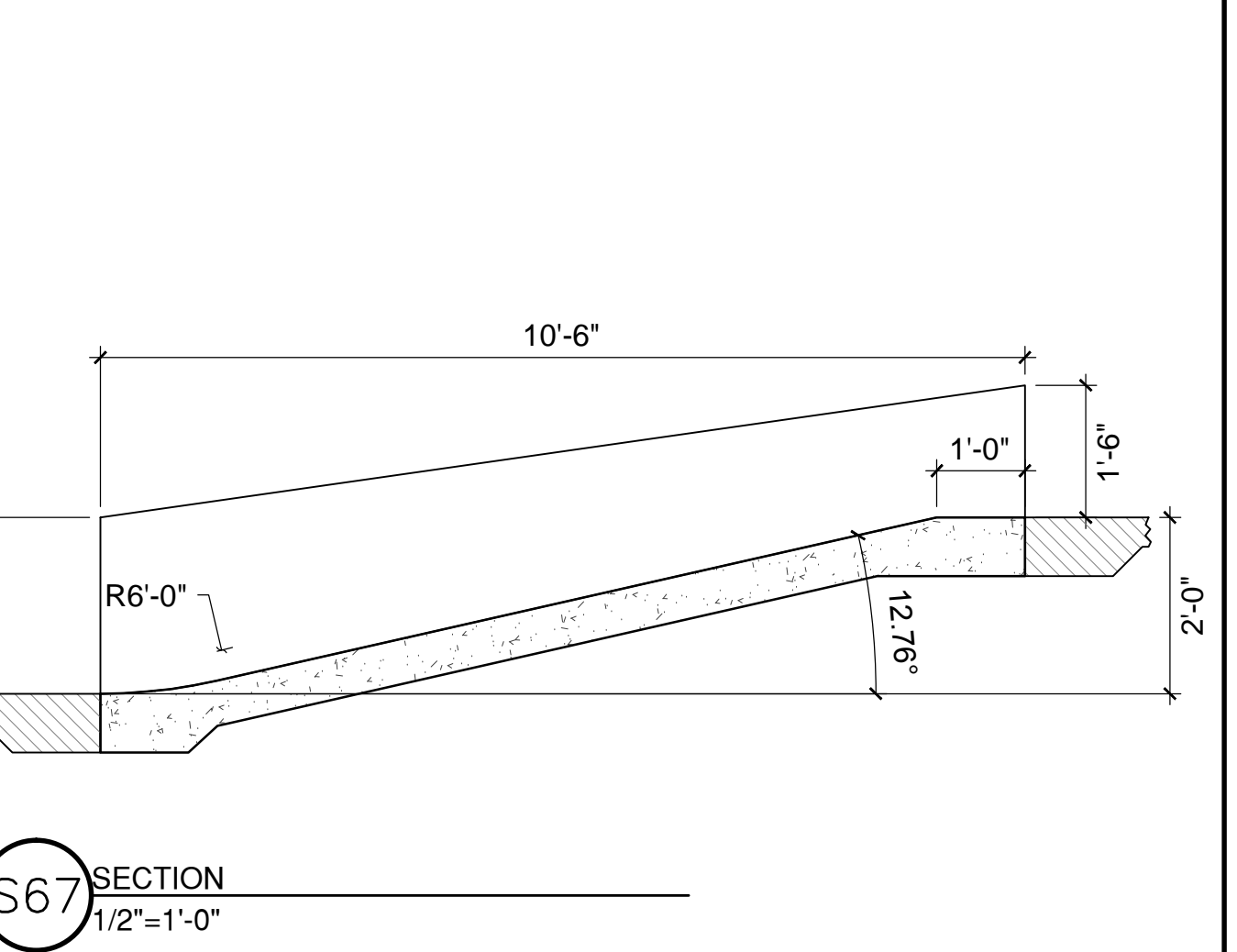
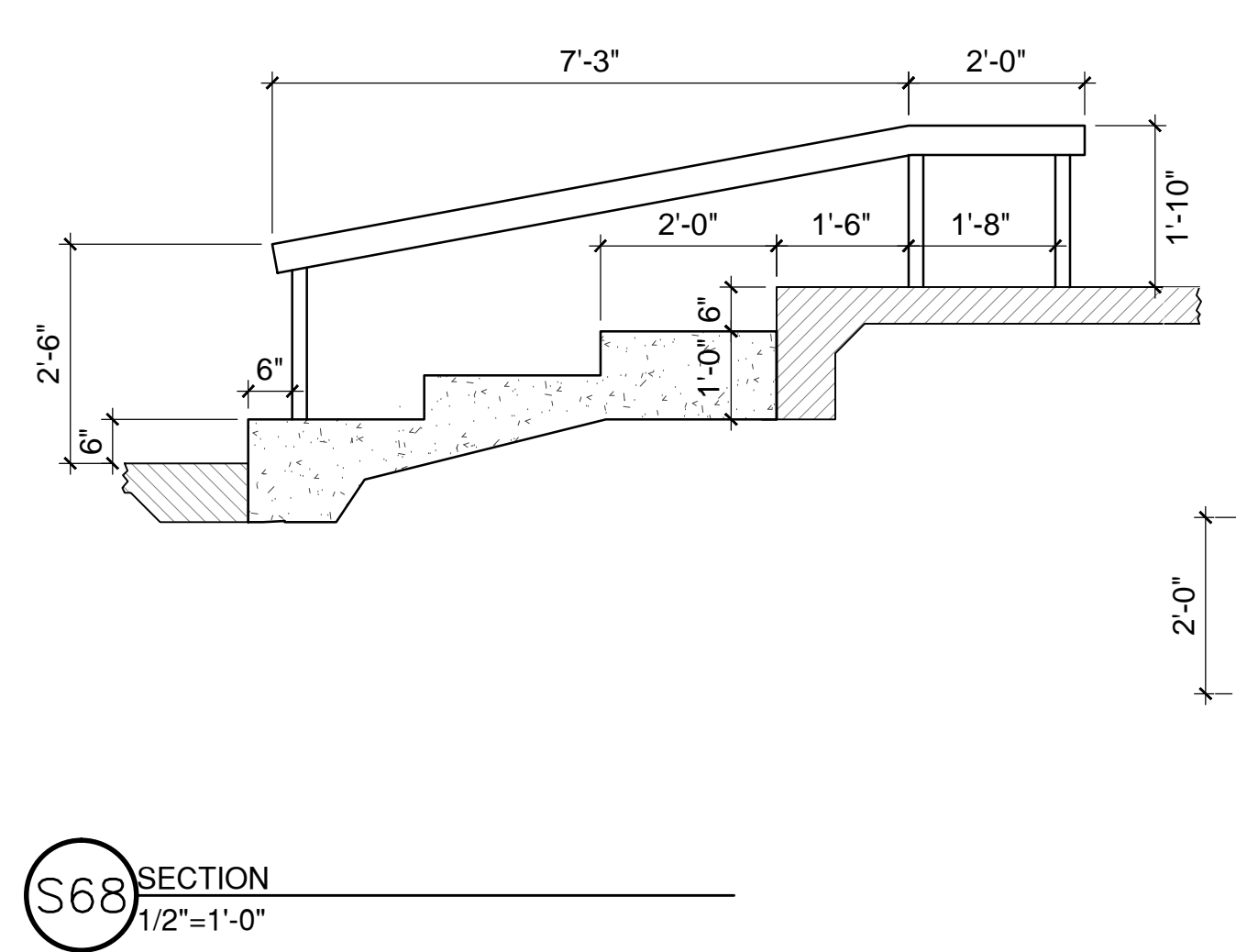
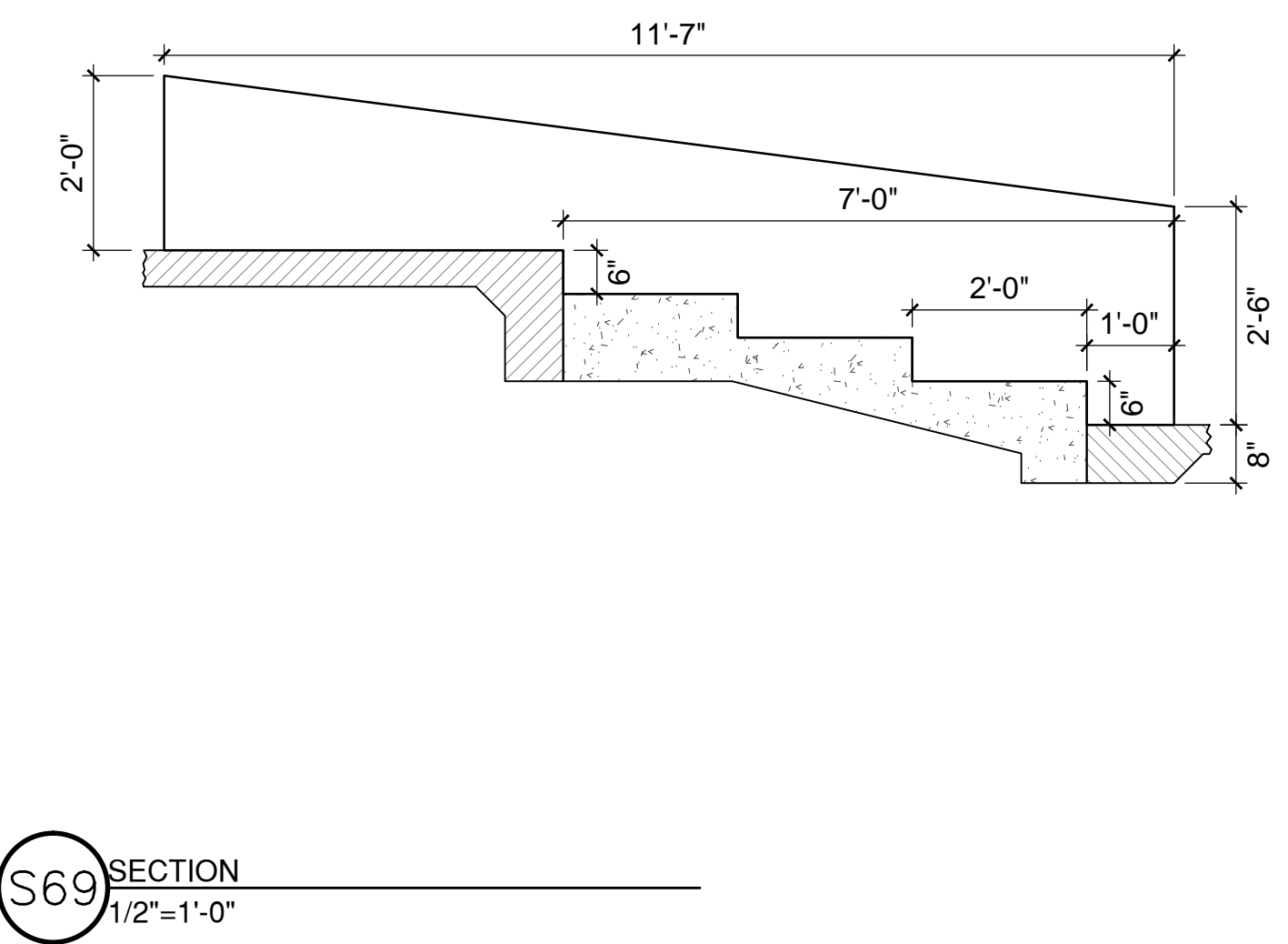
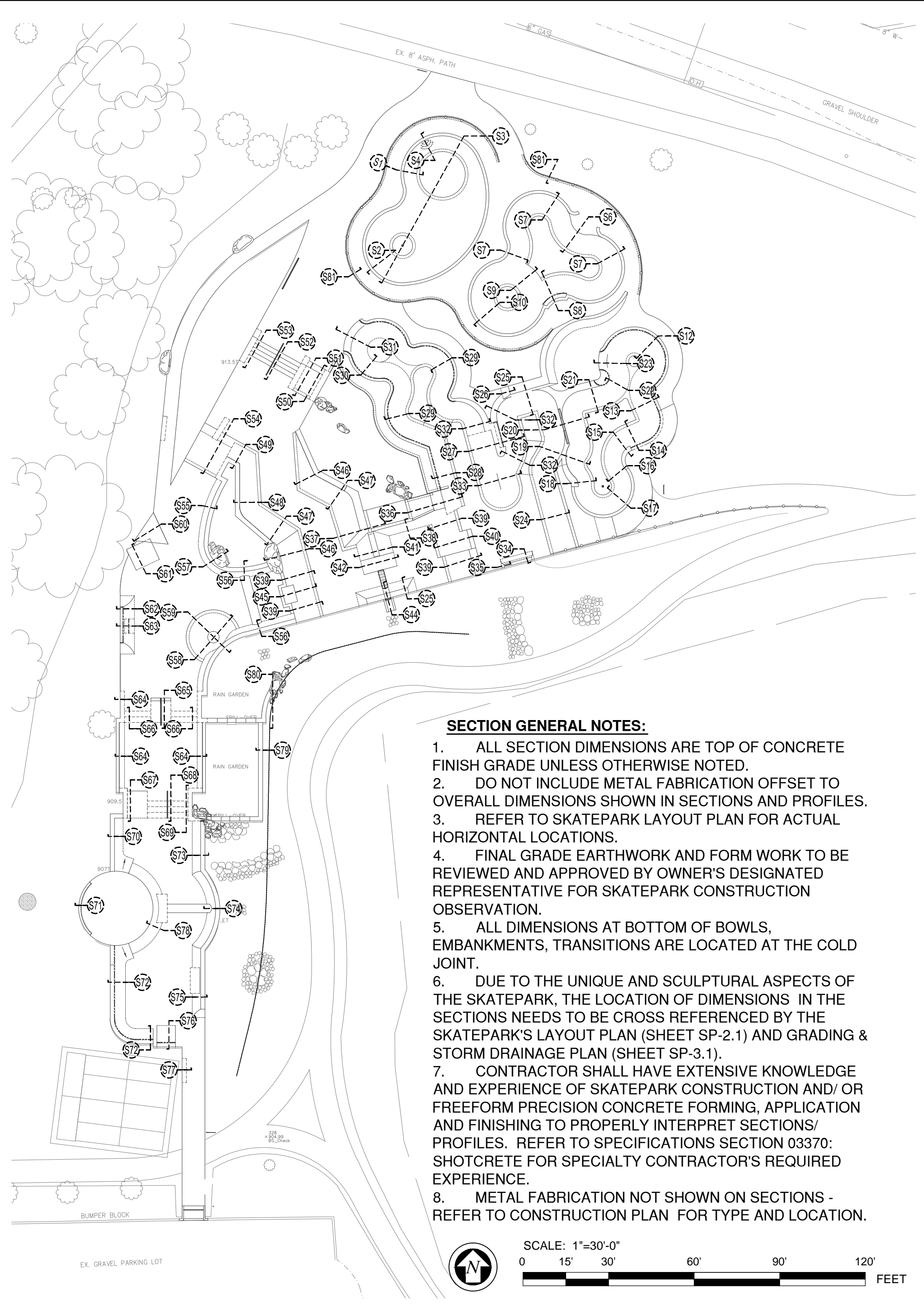
PROJECT: ANN ARBOR SKATEPARK
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 VETERANS MEMORIAL PARK
 2150 JACOBSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION SECTIONS
 SUBMITTAL: BID SET



CLARB CERTIFIED
 LANDSCAPE ARCHITECT

JOB NO. CSD1150-12
 DATE: 04-16-2013
 SCALE: PER PLAN
 DRAWN: CHS
 SHEET: LC-308
 23 OF 23 SHEETS



1 ADDENDUM#1
 5/07/2013