

ANN ARBOR SKATEPARK



CITY OF ANN ARBOR, MICHIGAN
 VETS 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.

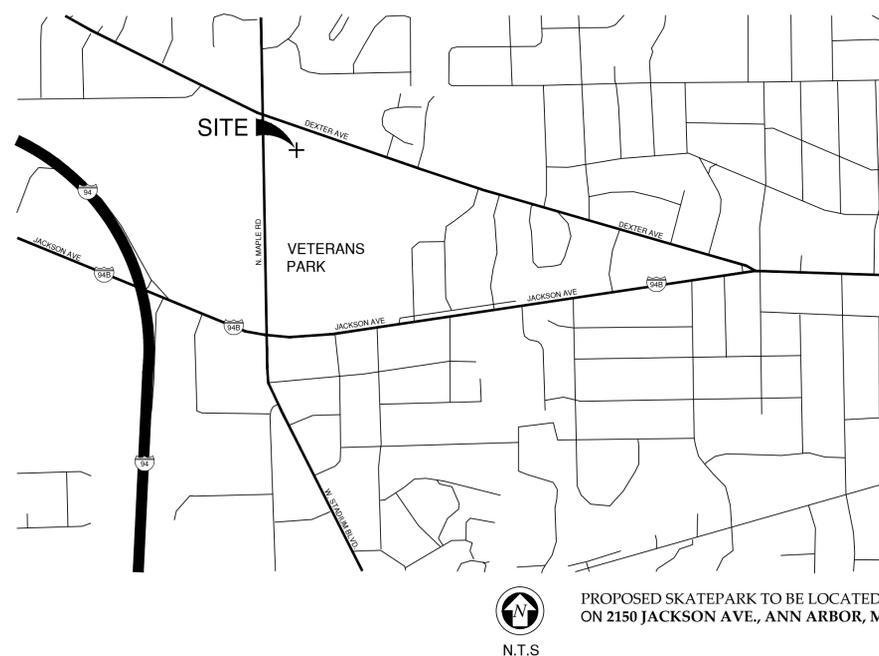
SHEET INDEX

- LT-101_TITLE SHEET
- LS-101_SITE PLAN
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- 2_RAIN GARDENS DETAILED (CIVIL)
- 3_MISC & UNDERGROUND DETENTION CHAMBERS DETAILS (CIVIL)
- 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

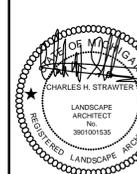
REVISIONS	BY



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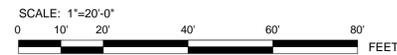
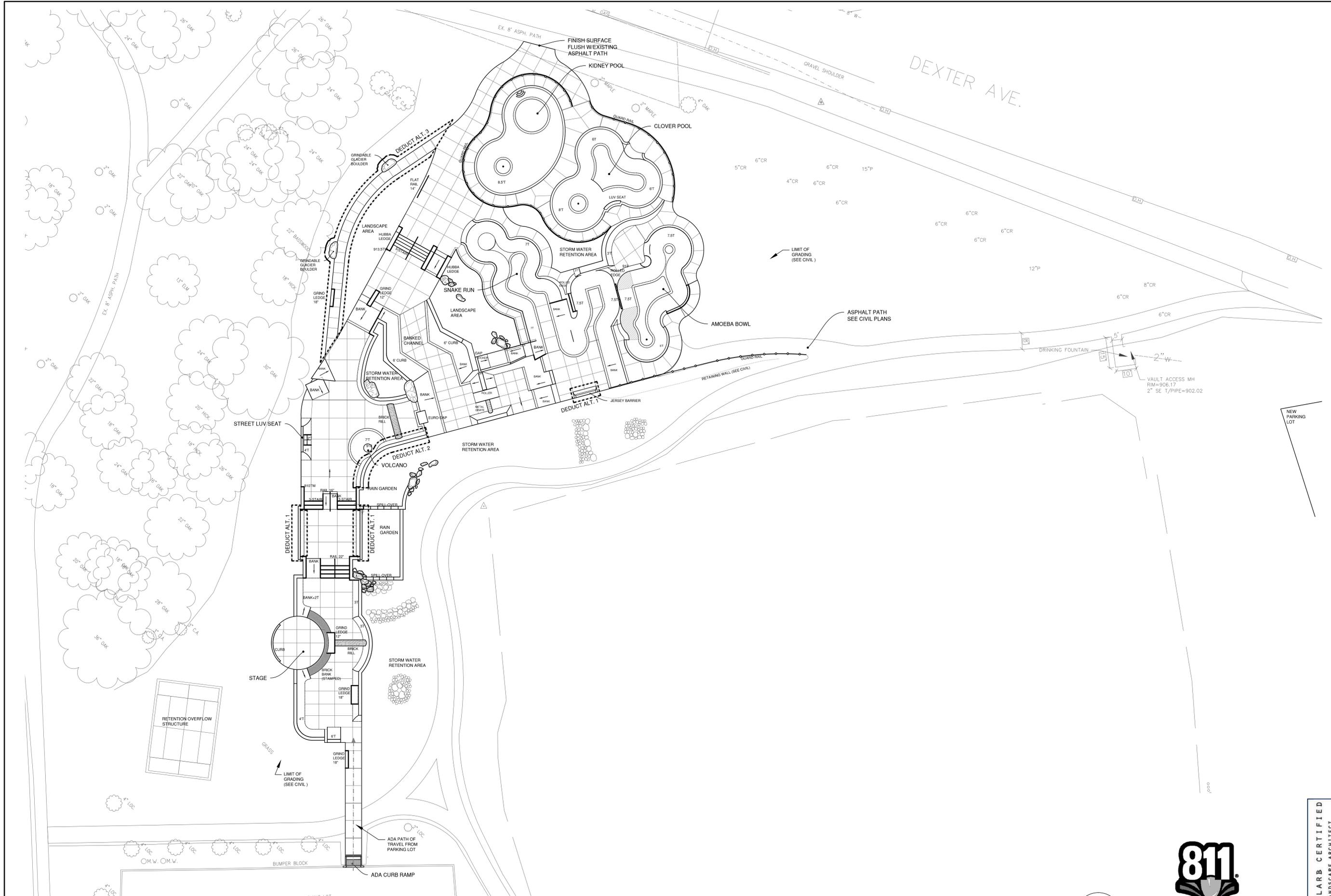
PROJECT: ANN ARBOR SKATEPARK
 CITY OF ANN ARBOR, MICHIGAN
 VETERANS MEMORIAL PARK
 2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: TITLE SHEET
 SUBMITTAL: BID SET



JOB NO. CSD1150-12
 DATE: 03-29-2013
 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 Fri, Mar 29 2013 11:50:37 am



CLARB CERTIFIED
LANDSCAPE ARCHITECT



JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET:
LS-101
02 OF 23 SHEETS

REVISIONS	BY

HOLLYDAY
design
skateboardsign.com
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CA: 313.487.8888

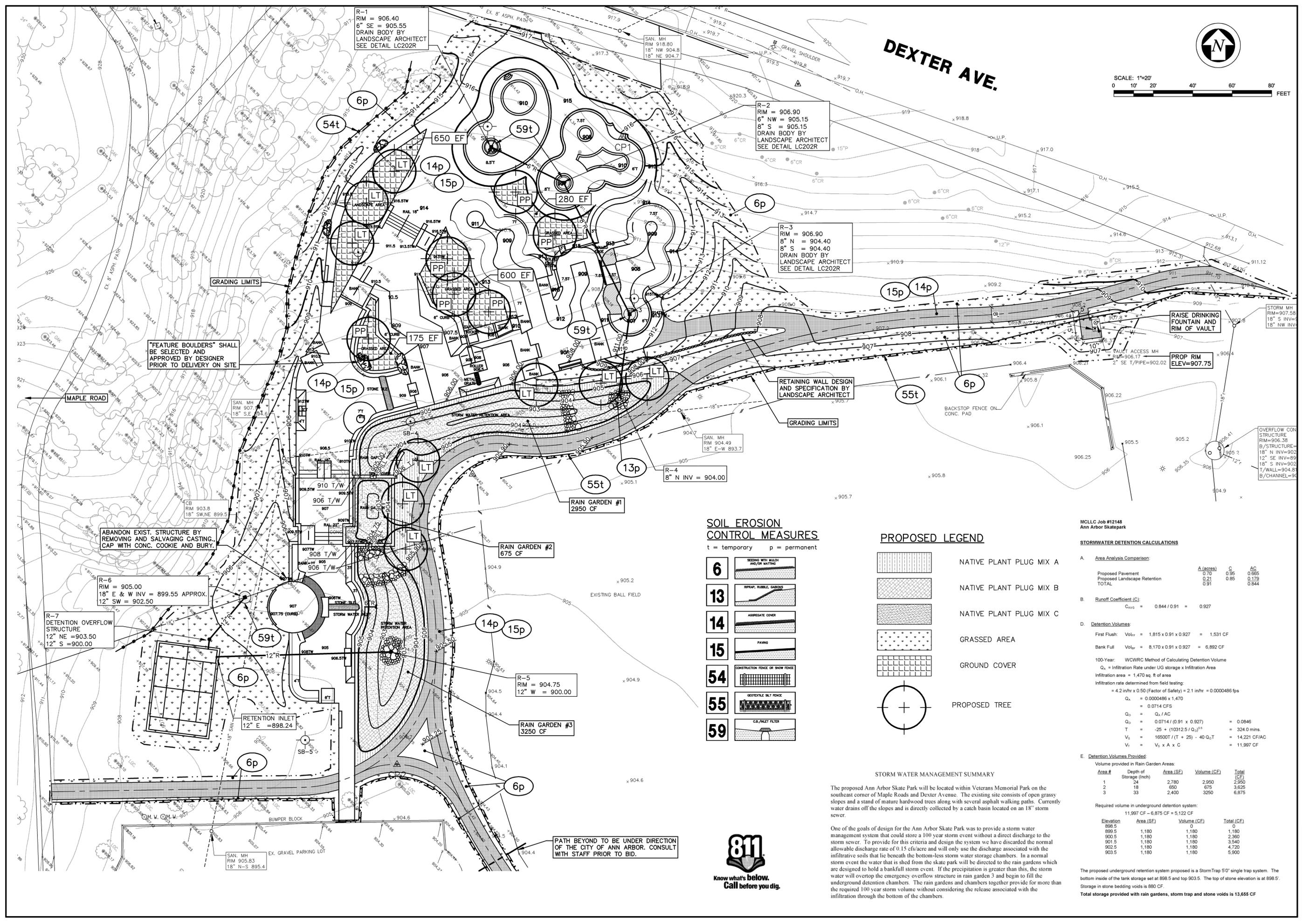
CHARLES H. STRAWTER DESIGN, INC.
LANDSCAPE ARCHITECT
1150-12 AN ARBOR SKATEPARK
ANN ARBOR, MI 48106
PH: 734.769.1111
TX: 734.769.1111
CA: 734.769.1111

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



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

REVISIONS	BY



C. HAROLD H. S. STANLEY, D. DESIGN, INC.
366 W. HANCOCK BLVD., SUITE 200
ANN ARBOR, MI 48106
TEL: 734.769.1234
FAX: 734.769.1235
WWW.MIDWESTERNCONSULTING.COM

PROJECT: ANN ARBOR SKATEPARK
CITY OF ANN ARBOR, MICHIGAN
2155 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: SITE GRADING PLAN
SUBMITTAL: BID SET

JOB NO. CSD110-152
DATE: 03-29-2013
SCALE: 1" = 30'
DRAWN:
SHEET: 3
3 OF 23 SHEETS

SOIL EROSION CONTROL MEASURES

t = temporary p = permanent

- 6 SEDIMENT WITH MULCH AND/OR MATTING
- 13 PRIPAP, RUBBLE, GABIONS
- 14 AGGREGATE COVER
- 15 PAVING
- 54 CONSTRUCTION FENCE OR SNOW FENCE
- 55 GEOTEXTILE SILT FENCE
- 59 GR/INLET FILTER

PROPOSED LEGEND

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

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: Vol_{FF} = 1.815 x 0.91 x 0.927 = 1.531 CF
Bank Full: Vol_{BF} = 8,170 x 0.91 x 0.927 = 6,892 CF
100-Year: WQVRC Method of Calculating Detention Volume
Q_s = Infiltration Rate under UG storage x Infiltration Area
Infiltration area = 1,470 sq. ft. of area
Infiltration rate determined from field testing:
= 4.2 in/hr x 0.50 (Factor of Safety) = 2.1 in/hr = 0.000486 fps
Q₁ = 0.000486 x 1,470 = 0.714 CFS
Q₂ = Q₁ / AC = 0.714 / (0.91 x 0.927) = 0.8046
T = -25 + (10312.5 / Q₂)^{0.5} = 324.0 mins
V₂ = 16500T / (T + 25) - 40 Q₂T = 14,221 CF/AC
V₁ = V₂ x A x C = 11,997 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 CF - 6,875 CF = 5,122 CF

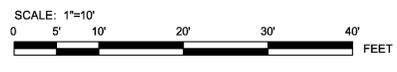
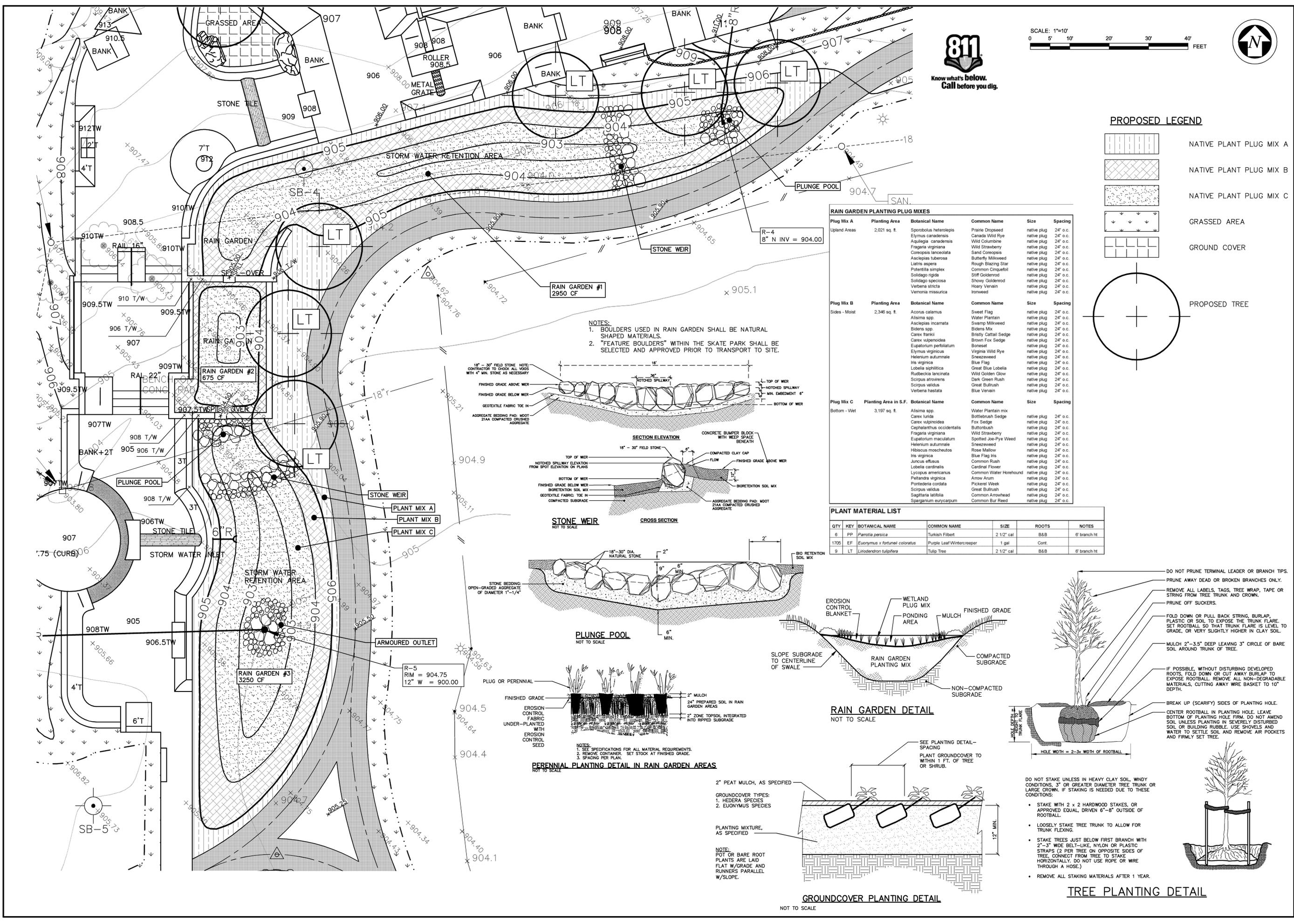
Elevation	Area (SF)	Volume (CF)	Total (CF)
899.5	0	0	0
899.5	1,180	1,180	1,180
900.5	1,180	1,180	2,360
901.5	1,180	1,180	3,540
902.5	1,180	1,180	4,720
903.5	1,180	1,180	5,900

The proposed underground retention system proposed is a StormTrap 50" single trap system. The bottom inside of the tank storage set at 898.5 and top 903.5. The top of stone elevation is at 898.5. Storage in stone bedding voids is 880 CF. Total storage provided with rain gardens, storm trap and stone voids is 13,655 CF

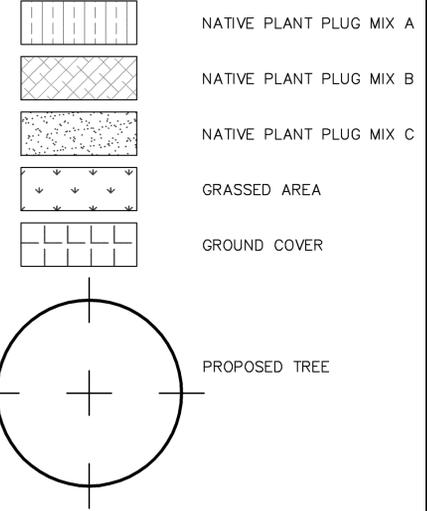


PATH BEYOND TO BE UNDER DIRECTION OF THE CITY OF ANN ARBOR. CONSULT WITH STAFF PRIOR TO BID.

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PROPOSED LEGEND



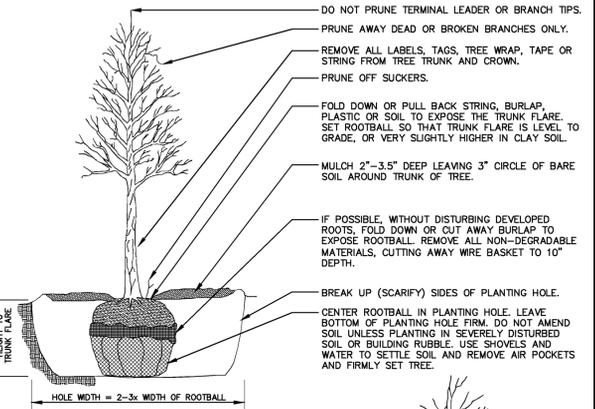
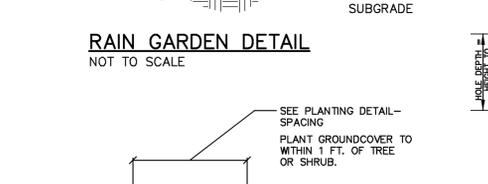
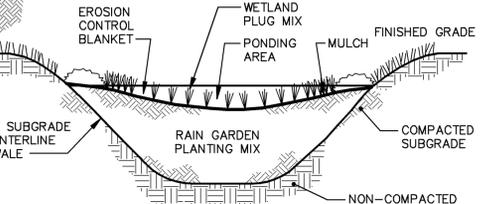
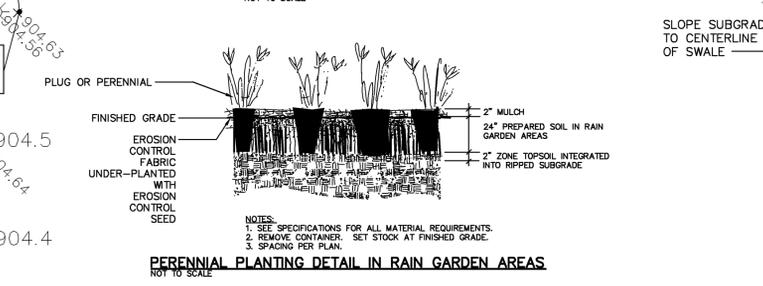
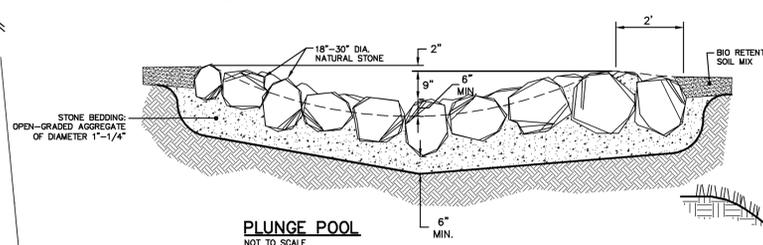
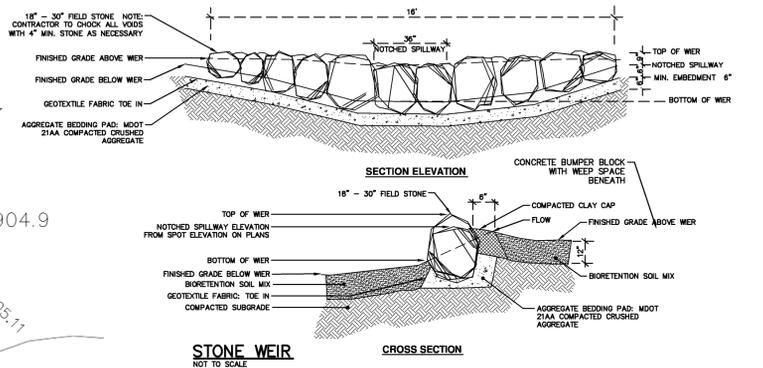
RAIN GARDEN PLANTING PLUG MIXES

Plug Mix	Planting Area	Botanical Name	Common Name	Size	Spacing
Plug Mix A Upland Areas 2,021 sq. ft.		<i>Sporobolus heterolepis</i>	Prairie Dropseed	native plug	24" o.c.
		<i>Elymus canadensis</i>	Canada Wild Rye	native plug	24" o.c.
		<i>Aquilegia canadensis</i>	Wild Columbine	native plug	24" o.c.
		<i>Fragaria virginiana</i>	Wild Strawberry	native plug	24" o.c.
		<i>Carex lanceolata</i>	Sand Carex	native plug	24" o.c.
		<i>Asclepias tuberosa</i>	Butterfly Milkweed	native plug	24" o.c.
		<i>Liatris aspera</i>	Rough Blazing Star	native plug	24" o.c.
		<i>Pteris caudata</i>	Common Cinnamon	native plug	24" o.c.
		<i>Solidago speciosa</i>	Stiff Goldenrod	native plug	24" o.c.
		<i>Veronica stricta</i>	Showy Goldenrod	native plug	24" o.c.
		<i>Vernonia missurica</i>	Hoary Vervain	native plug	24" o.c.
		<i>Vernonia missurica</i>	Ironweed	native plug	24" o.c.
Plug Mix B Sides - Moist 2,346 sq. ft.		<i>Acorus calamus</i>	Sweet Flag	native plug	24" o.c.
		<i>Alisma spp.</i>	Water Plantain	native plug	24" o.c.
		<i>Asclepias incarnata</i>	Swamp Milkweed	native plug	24" o.c.
		<i>Bidens spp.</i>	Bidens	native plug	24" o.c.
		<i>Carex flaccida</i>	Britny Cattail Sedge	native plug	24" o.c.
		<i>Carex vulpinoidea</i>	Brown Fox Sedge	native plug	24" o.c.
		<i>Eupatorium perfoliatum</i>	Boneset	native plug	24" o.c.
		<i>Elymus virginicus</i>	Virginia Wild Rye	native plug	24" o.c.
		<i>Helenium autumnale</i>	Sneezeweed	native plug	24" o.c.
		<i>Iris virginica</i>	Blue Flag	native plug	24" o.c.
		<i>Lobelia siphilitica</i>	Great Blue Lobelia	native plug	24" o.c.
		<i>Rubus laciniatus</i>	Wild Golden-Glow	native plug	24" o.c.
Plug Mix C Bottom - Wet 3,197 sq. ft.		<i>Alisma spp.</i>	Water Plantain mix	native plug	24" o.c.
		<i>Carex lurida</i>	Bottlebrush Sedge	native plug	24" o.c.
		<i>Carex vulpinoidea</i>	Fox Sedge	native plug	24" o.c.
		<i>Cephalanthus occidentalis</i>	Butterbush	native plug	24" o.c.
		<i>Fragaria virginiana</i>	Wild Strawberry	native plug	24" o.c.
		<i>Eupatorium maculatum</i>	Spotted Joe-Pye Weed	native plug	24" o.c.
		<i>Helenium autumnale</i>	Sneezeweed	native plug	24" o.c.
		<i>Hibiscus moscheutos</i>	Rose Mallow	native plug	24" o.c.
		<i>Iris virginica</i>	Blue Flag Iris	native plug	24" o.c.
		<i>Juncus effusus</i>	Common Rush	native plug	24" o.c.
		<i>Lobelia cardinalis</i>	Cardinal Flower	native plug	24" o.c.
		<i>Lycopus americanus</i>	Common Water Horehound	native plug	24" o.c.
<i>Peltandra virginica</i>	Arrow Arum	native plug	24" o.c.		
<i>Pontederia cordata</i>	Pickel Week	native plug	24" o.c.		
<i>Scirpus validus</i>	Great Bulrush	native plug	24" o.c.		
<i>Sagittaria latifolia</i>	Common Arrowhead	native plug	24" o.c.		
<i>Sparganium eurycarpum</i>	Common Bur Reed	native plug	24" o.c.		

PLANT MATERIAL LIST

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>Liriodendron tulipifera</i>	Tulip Tree	2 1/2" cal	B&B	6' branch ht

NOTES:
 1. BOULDERS USED IN RAIN GARDEN SHALL BE NATURAL SHAPED MATERIALS.
 2. "FEATURE BOULDERS" WITHIN THE SKATE PARK SHALL BE SELECTED AND APPROVED PRIOR TO TRANSPORT TO SITE.



DO NOT STAKE UNLESS IN HEAVY CLAY SOIL, WINDY CONDITIONS, 3" OR GREATER DIAMETER TREE TRUNK OR LARGE CROWN. IF STAKING IS NEEDED DUE TO THESE CONDITIONS:

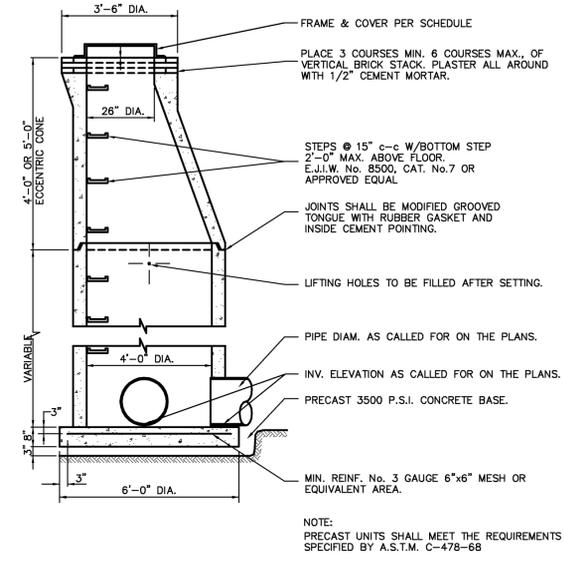
- STAKE WITH 2 x 2 HARDWOOD STAKES, OR APPROVED EQUIV, DRIVEN 6"-8" OUTSIDE OF ROOTBALL.
- LOOSELY STAKE TREE TRUNK TO ALLOW FOR TRUNK FLEXING.
- STAKE TREES JUST BELOW FIRST BRANCH WITH 2"-3" WIDE BELT-LIKE, NYLON OR PLASTIC STRAPS (2 PER TREE ON OPPOSITE SIDES OF TREE. CONNECT FROM TREE TO STAKE HORIZONTALLY. DO NOT USE ROPE OR WIRE THROUGH A HOSE.)
- REMOVE ALL STAKING MATERIALS AFTER 1 YEAR.

REVISIONS BY

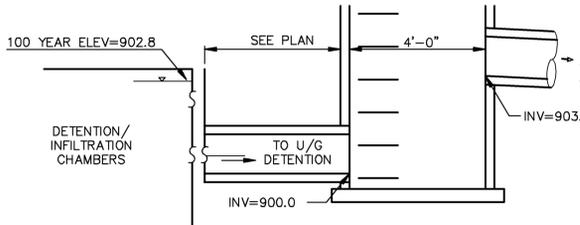
MIDWESTERN CONSULTING
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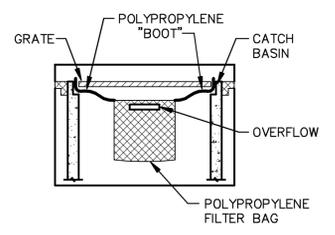
SHEET TITLE: RAIN GARDEN GRADING PLAN AND MISCELLANEOUS DETAILS
 SUBMITTAL: BID SET



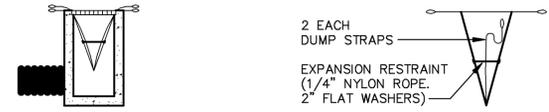
PRECAST MANHOLE "E"
NOT TO SCALE



DETENTION OUTLET
NOT TO SCALE

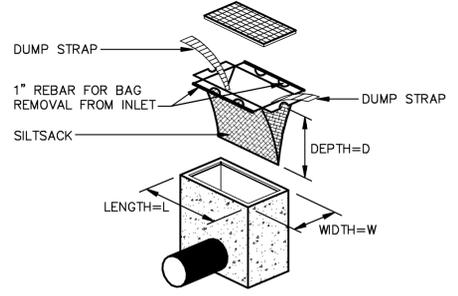


NOTE: TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. INLET FILTER TO BE SIMILAR TO "STREAMGUARD" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (206-767-0441) OR "SILTSACK" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC.; (800-448-3636). CLEAN FILTER AS NEEDED.



BAG DETAIL

INSTALLATION DETAIL



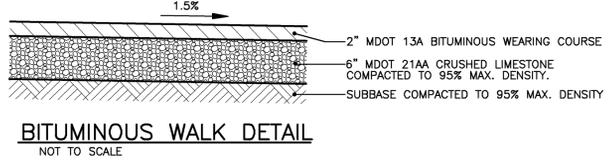
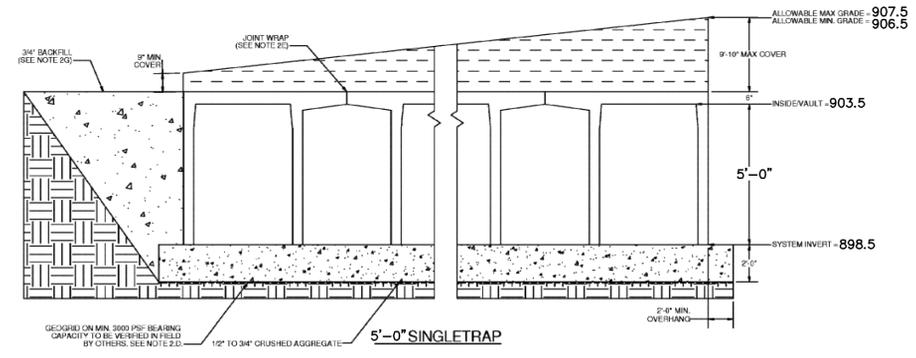
SILT SACK DETAIL
NO SCALE

STORMTRAP INSTALLATION SPECIFICATION

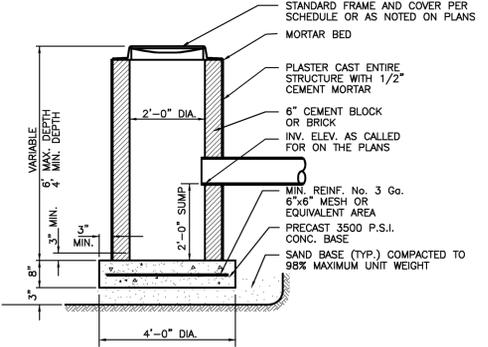
- STORMTRAP MODULES SHALL BE MANUFACTURED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALL CONTRACTOR AND ENGINEER. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/OUTLET PIPE OPENINGS.
- STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D1984. STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRE-CAST 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 BED OF CLEAN, CRUSHED, ANGULAR STONE WITH A NOMINAL SIZE DISTRIBUTION BETWEEN 1/2" TO 3/4" OR APPROVED EQUAL, AND A TENSILE STRENGTH OF APPROVED EQUAL. BOTH THE AGGREGATE AND GEOTRID SHALL BE INSTALLED WITH A MINIMUM 2'-0" OVERLAP BEYOND THE LIMITS OF THE STORMTRAP INSTALLATION. A MINIMUM 2'-0" OVERLAP MUST BE MAINTAINED ON ALL AREAS OF THE GEOTRID.
 - FOR SYSTEMS REQUIRING INFILTRATION, REFER TO THE CIVIL ENGINEER'S DRAWINGS FOR SPECIFICATIONS PERTAINING TO THE SUBGRADE.
 - IF INFILTRATION IS NOT NECESSARY, DISK DRY AND COMPACT THE TOP 8" OF THE SUBGRADE SOILS TO 95% OF THE STANDARD DRY DENSITY AND 110% OPTIMUM MOISTURE CONTENT.
 - AGGREGATE SHALL BE GRADED TO WITHIN +/- 1/4" OF THE GRADE SHOWN ON THE PLANS.
 - MINIMUM 3000 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.

STORMTRAP SPECIFICATION

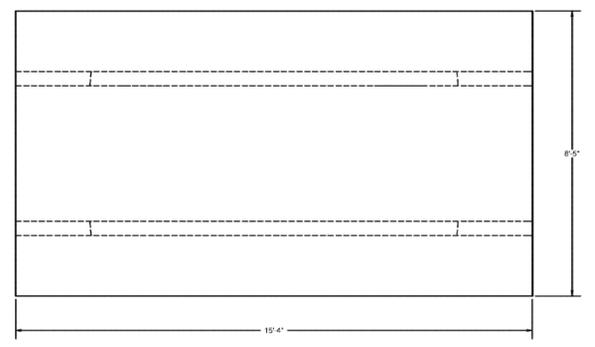
- TOTAL COVER: MIN. 9" MAX. 9'-10" CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
 - CONCRETE CHAMBER DESIGNED FOR AASHTO HS-20 WHEEL LOAD. MIN. SOIL PRESSURE 3000 PSF.
 - ALL DIMENSIONS AND SOIL CONDITIONS INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.
 - FOR STRUCTURAL AND FLOTATION CALCULATIONS GROUND WATER TABLE IS ASSUMED TO BE BELOW THE SYSTEM INVERT. IF DIFFERENT THAN ASSUMED, CONTACT STORMTRAP.
- 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 REMAINING 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'-0" HIGHER 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 SPACES BEHIND OR WITHIN THE AREA TO BE BACKFILLED MUST BE STERILIZED OR SEPARATED TO PREVENT WEDGE ACTION. (REFERENCE ARTICLE 902 TO 10 D.O.P. 83 R.E.C. CASE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MATERIAL NOT TO EXCEED 120 P.C. SOIL DENSITY OR 80 LBS PER FOOT OF LATERAL SATURATED PRESSURE. RECOMMENDED BACKFILL TO CONSIST OF 3/4" COARSE AGGREGATE STONE OR APPROVED EQUAL AND SHALL CONFORM TO THE ABOVE DENSITY/LATERAL SATURATED PRESSURE REQUIREMENTS.



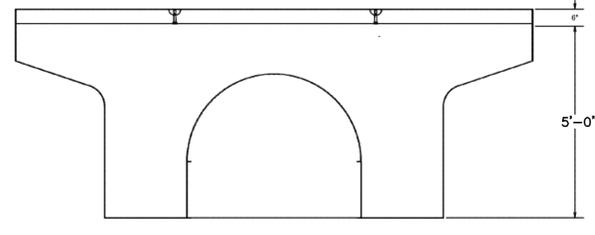
BITUMINOUS WALK DETAIL
NOT TO SCALE



CROSS SECTION
2' DIA. INLET W/ SUMP
NOT TO SCALE



PLAN VIEW

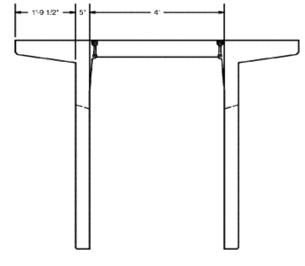


ELEVATION VIEW

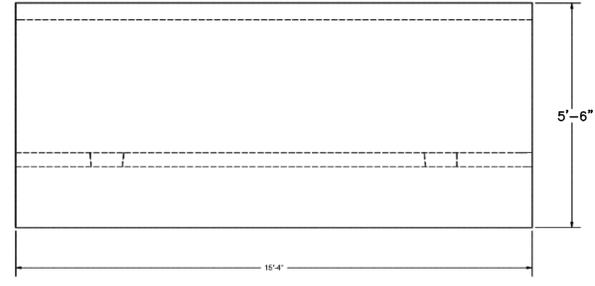
INTERIOR UNIT

INSIDE CHAMBERS

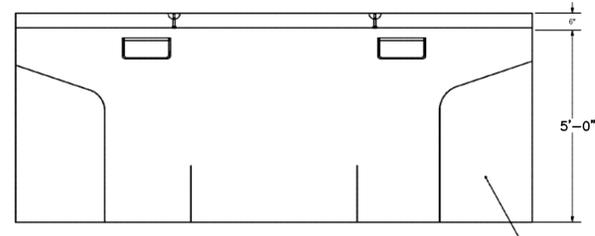
CHAMBER HEIGHT	CHAMBER VOLUME
66 INCHES	605 CF



SIDE VIEW



PLAN VIEW

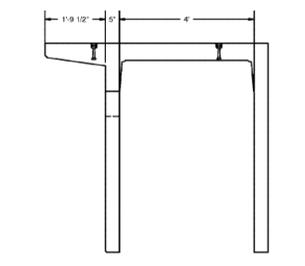


ELEVATION VIEW

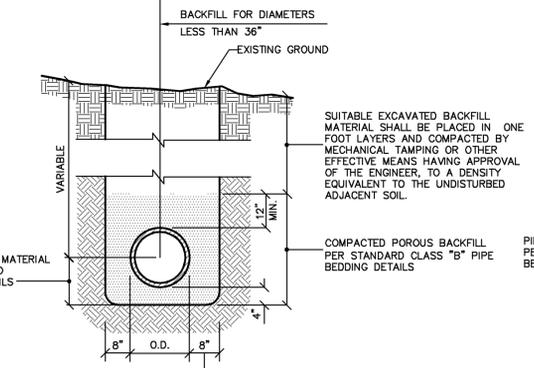
EXTERIOR UNIT

OUTSIDE CHAMBERS

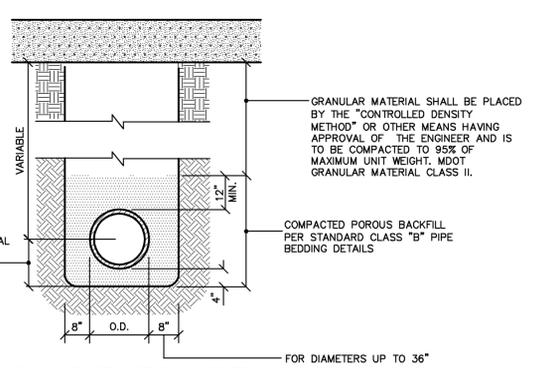
CHAMBER HEIGHT	CHAMBER VOLUME
66 INCHES	444 CF



SIDE VIEW



TRENCH "A"
FOR USE IN GREENBELT AREAS



TRENCH "B"
FOR USE UNDER PAVED SURFACES

STORM SEWER STRUCTURE SCHEDULE

STRUCT NO.	TYPE	RIM ELEV.	MAIN 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	8'S 905.15		
R-3	PRE-FAB DRAIN	906.90	8'N 904.40	8'S 904.40		
R-4	8" DIA End Section	8'N 904.00			BAR GRATE	
R-5	2' DIA Catch Basin	904.75	12'W 900.00		EJIW 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	904.75	12'S 900.00	12' NE 903.50	EJIW 1040	

REVISIONS	BY

MIDWESTERN CONSULTING
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1011 East Main Street
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Fax: 734.769.1001
www.midwesternconsulting.com

ANN ARBOR SKATEPARK
PROJECT:
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

JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: SCALE PER PLAN
DRAWN:
SHEET: **5**
5 OF 23 SHEETS



Testing Engineers & Consultants, Inc.
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

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
			-25				
			1.5	Moist Dark Brown Sandy TOPSOIL (3")	12.3	100	
2.5	LS 11 10			Medium Compact Moist Brown Clayey SAND With Trace Of Gravel	18.8	129	
				Stiff Moist Brown Oxidized CLAY With Some Silt & Thin Sand Seams At 7'6"	19.7	122	10300
5.0	LS 7 11 16			Extremely Stiff Moist Brown CLAY With Some Silt	15.8	131	10380
7.5	LS 5 10 16		8	Stiff Moist Gray CLAY With Some Silt & Wet Sand Seams At 14'8"	14.8	136	7250
10.0	LS 7 13 21		12	Bottom of Borehole at 15'			
12.5			15				
15.0	LS 3 6 12						
17.5							
20.0							
22.5							

Water Encountered: 14'10"
At Completion: 12'7"
Boring No. 1



Testing Engineers & Consultants, Inc.
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

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
			-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						
12.5			13	Bottom of Borehole at 13'			
15.0							
17.5							
20.0							
22.5							

Water Encountered: None
At Completion: None
Boring No. 4



Testing Engineers & Consultants, Inc.
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Fax (248) 588-6232

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
			-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	
				Extremely Stiff Moist Brown Oxidized CLAY With Some Silt	13.9	130	
5.0	LS 7 14 20		5.5	Stiff Moist Brown Oxidized CLAY With Some Silt & Trace Of Gravel	20.8	125	12940
7.5	LS 8 10 10		8	Firm Moist Brown Oxidized CLAY With Some Silt			
10.0	LS 4 5 6		10	Bottom of Borehole at 10'			
12.5							
15.0							
17.5							
20.0							
22.5							

Water Encountered: None
At Completion: None
Boring No. 2



Testing Engineers & Consultants, Inc.
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

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
			-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
				Stiff Moist Brown Oxidized CLAY With Some Silt & Trace Of Gravel	12.0	129	9060
5.0	LS 7 10 13		8	Firm Moist Brown Oxidized CLAY With Some Silt	12.9	129	10710
7.5	LS 4 3 3		9.5	Loose Moist Brown Fine SAND			
10.0			11	Moist Brown CLAY With Some Silt			
12.5			13	Bottom of Borehole at 13'			
15.0							
17.5							
20.0							
22.5							

Water Encountered: None
At Completion: None
Boring No. 5



Testing Engineers & Consultants, Inc.
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

Depth (ft)	Sample Type	N	Strata Change	Soil Classification	w	d	qu
			-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
				Firm Moist Gray CLAY With Some Silt & Trace Of Gravel	9.7	135	11040
5.0	LS 7 11 16		5	Bottom of Borehole at 10'			
7.5	LS 5 5 8						
10.0	LS 3 6 8		10				
12.5							
15.0							
17.5							
20.0							
22.5							

Water Encountered: None
At Completion: None
Boring No. 3

REVISIONS	BY

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Fax: (303) 751-1111
www.midwesternconsulting.com

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

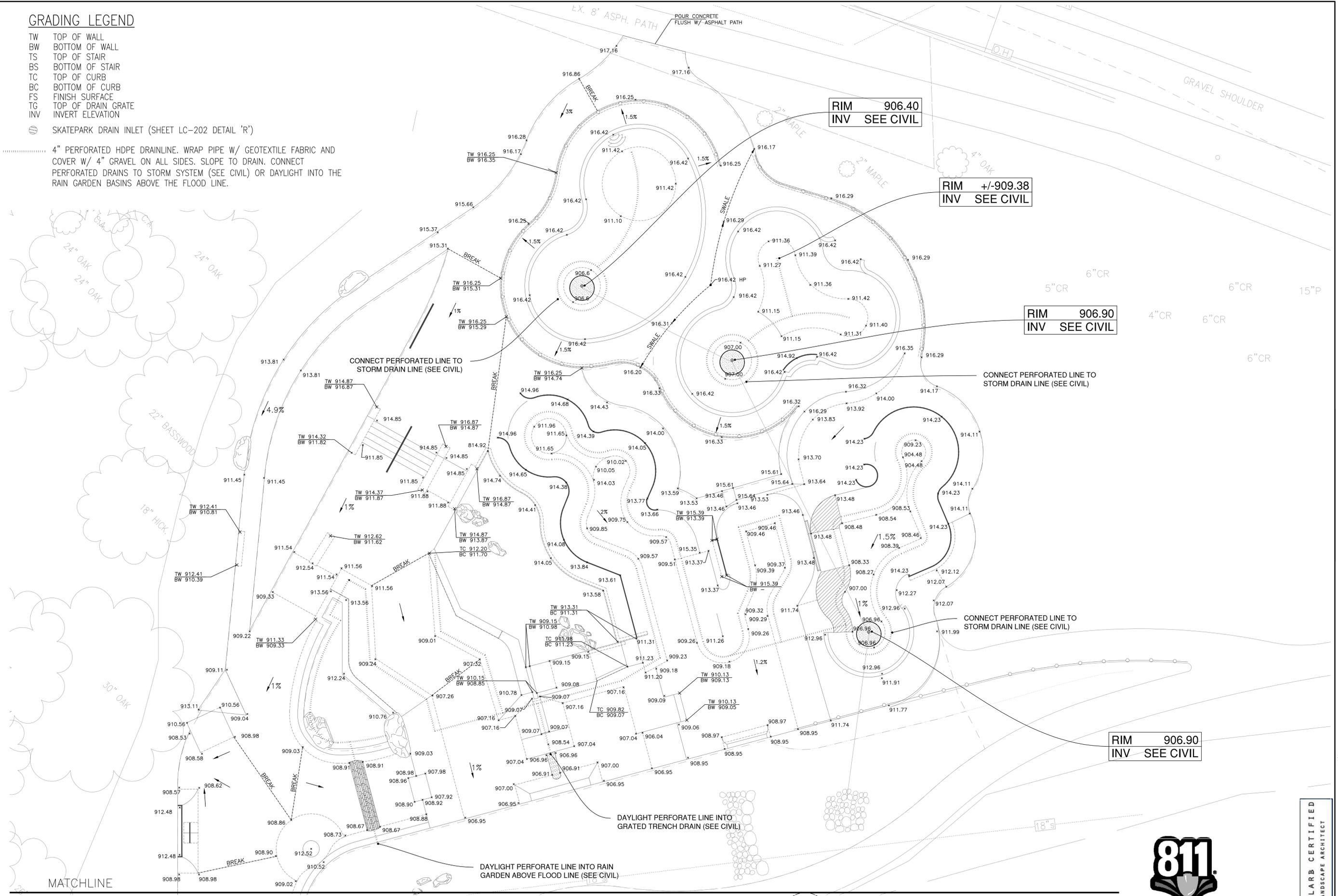
SHEET TITLE: SOIL BORING LOGS
SUBMITTAL: BID SET

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.



RIM 906.40
INV SEE CIVIL

RIM +/-909.38
INV SEE CIVIL

RIM 906.90
INV SEE CIVIL

RIM 906.90
INV SEE CIVIL



REVISIONS	BY

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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



CLARB CERTIFIED
LANDSCAPE ARCHITECT



Know what's below.
Call before you dig.

JOB NO. CSD1150-12
DATE: 03-29-2013
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, Fri, Mar 29 2013 12:01:06 pm



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

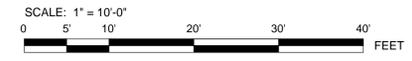
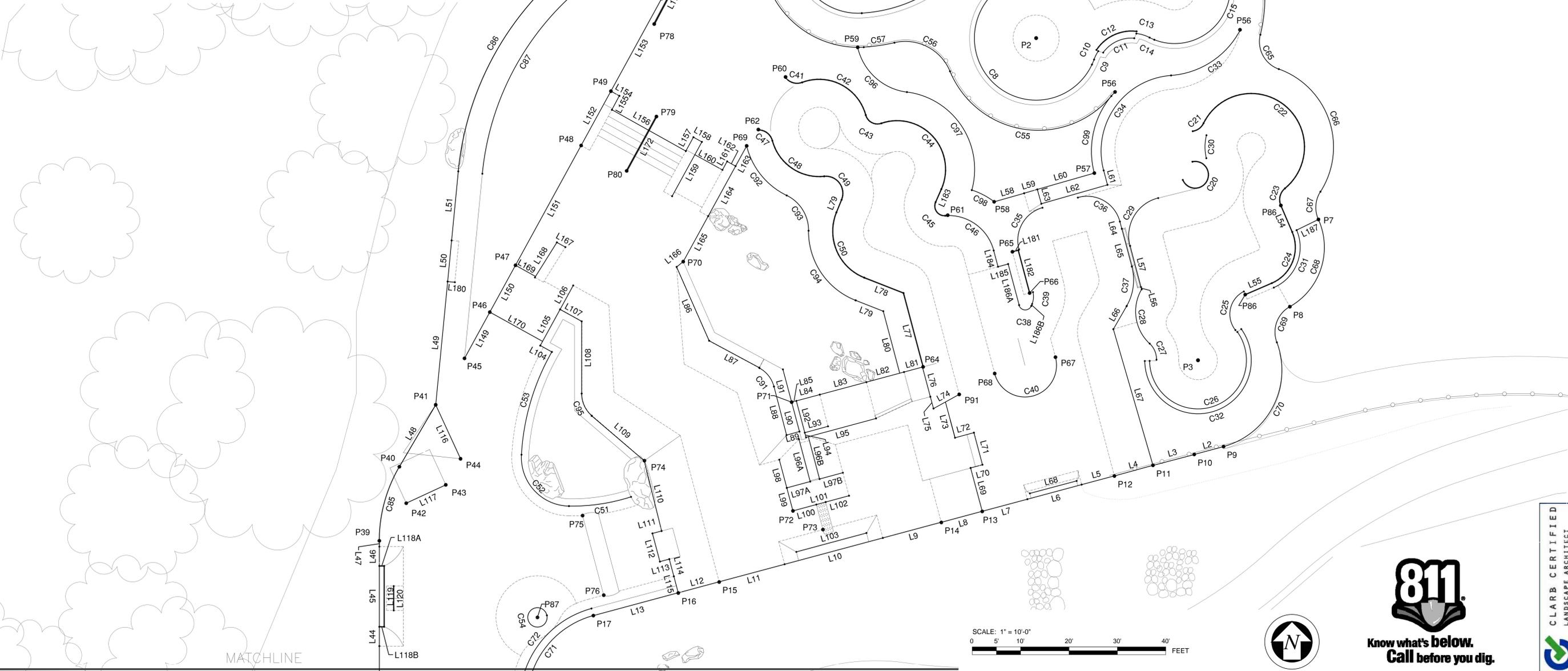
T/PAD 930.5

TRAFFIC SIGNAL CABINET

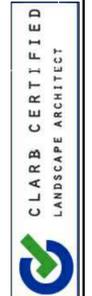
TRAFFIC SIGNAL HAND HOLES

SCALE: 1" = 10'-0"

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



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



Owner: C:\Users\Public\Documents\CHS Design, Inc.\projects\1150-LL-LAYOUT.dwg, Fri, Mar 29 2013 11:40:18 am

POINT DATA TABLES

*P.O.B. @ BENCH MARK

POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
POB*	286750.82	132819181.19	P46	283449.95	132821878.89
P1	284343.33	132822792.58	P47	283565.57	132821942.57
P2	284126.03	132822792.58	P48	283861.15	132822105.36
P3	284126.06	132823233.81	P49	283995.16	132822179.17
P4	285027.82	132823097.03	P50	284223.56	132822304.96
P5	284126.06	132823233.81	P51	-	-
P6	284599.78	132823524.36	P52	284451.87	132822399.26
P7	283678.73	132823933.61	P53	284573.44	132822473.20
P8	283463.40	132823862.84	P54	285075.43	132822291.32
P9	283118.31	132823698.38	P55	284695.12	132823200.31
P10	283098.95	132823625.79	P56	283993.25	132823429.33
P11	283072.13	132823523.37	P57	283793.04	132823377.99
P12	283045.61	132823427.81	P58	283722.26	132823129.50
P13	282958.29	132823099.99	P59	284103.33	132822791.18
P14	282931.09	132822998.57	P60	284030.18	132822612.26
P15	282784.12	132822447.71	P61	283689.20	132823014.43
P16	282757.05	132822346.26	P62	283900.51	132822544.76
P17	282701.27	132822135.69	P63	-	-
P18	282386.14	132821928.89	P64	283314.90	132822953.37
P19	282338.14	132821928.89	P65	283598.93	132823174.88
P20	282008.14	132821889.59	P66	283497.14	132823217.57
P21	281936.14	132821889.59	P67	283338.85	132823281.56
P22	282338.14	132822217.99	P68	283298.62	132823130.84
P23	281924.14	132822204.14	P69	283860.24	132822515.84
P24	281306.94	132821899.59	P70	283574.67	132822358.57
P25	281198.94	132821899.59	P71	283227.89	132822627.37
P26	280253.16	132821865.09	P72	282959.63	132822630.64
P27	280251.71	132821865.09	P73	282913.46	132822705.12
P28	280251.71	132821865.09	P74	283083.65	132822262.31
P29	281402.23	132821562.52	P75	282948.02	132822109.01
P30	281710.44	132821562.52	P76	282751.70	132822161.38
P31	281496.34	132821802.78	P77	284291.39	132822356.08
P32	281616.34	132821802.78	P78	284160.77	132822286.59
P33	281765.11	132821662.26	P79	283932.55	132822292.07
P34	281936.14	132821634.52	P80	283798.53	132822218.26
P35	282050.14	132821634.52	P81	-	-
P36	-	-	P82	282441.37	132821775.89
P37	282338.14	132821622.89	P83	282326.14	132821775.89
P38	282386.14	132821622.89	P84	282050.14	132821803.44
P39	282885.89	132821604.88	P85	281935.71	132821803.44
P40	283068.57	132821654.68	P86	283713.31	132823840.47
P41	283221.34	132821744.66	P87	283493.17	132823752.08
P42	282978.58	132821671.73	P88	281574.34	132821969.01
P43	283023.92	132821769.67	P89	284477.49	132823536.04
P44	283088.15	132821806.32	P90	284421.66	132823611.14
P45	283335.93	132821816.09	P91	283246.96	132823042.86

CURVE DATA TABLE

CURVE	RADIUS	LENGTH	DELTA	TANGENT	CHORD	BEARING
C1	3'-0"	2'-11"	54057'17"	1'-7"	N68'18'28"E	2'-9"
C2	16'-0"	27'-5"	98414'44"	18'-6"	N29'49'03"E	24'-2"
C3	13'-0"	37'-10"	166436'48"	110'-9"	N9'55'56"W	25'-10"
C4	7'-0"	10'-11"	89437'56"	6'-11"	N28'33'29"E	9'-10"
C5	3'-0"	4'-10"	92419'19"	3'-1"	N74'59'40"W	4'-4"
C6	11'-6"	35'-2"	17507'17"	269'-9"	N63'36'29"E	23'-0"
C7	5'-9"	9'-11"	98448'18"	6'-9"	N29'49'03"E	8'-9"
C8	12'-9"	51'-1"	229439'44"	-27'-7"	N39'58'35"W	23'-2"
C9	12'-9"	1'-1"	4058'9"	7"	S22'42'28"W	1'-1"
C10	8'-3"	1'-11"	13428'11"	1'-0"	N26'57'29"E	1'-11"
C11	7'-3"	4'-0"	31433'45"	2'-1"	N65'57'43"E	3'-11"
C12	8'-9"	9'-7"	63410'56"	5'-4"	N65'17'02"E	9'-2"
C13	8'-3"	2'-10"	19454'11"	1'-5"	S73'10'25"E	2'-10"
C14	11'-6"	1'-1"	5d27'43"	7"	N65'57'11"W	1'-1"
C15	11'-6"	35'-9"	178d11'29"	728'-7"	N22'13'13"E	23'-0"
C16	3'-0"	4'-5"	84450'50"	2'-9"	N24'27'06"W	4'-1"
C17	11'-6"	5'-1"	25d15'38"	2'-2"	S79'30'20"E	5'-0"
C18	5'-9"	8'-4"	82d57'36"	5'-1"	N50'39'21"W	7'-7"
C19	11'-6"	3'-11"	19d39'27"	2'-0"	S19'00'17"E	3'-11"
C20	2'-9"	12'-5"	259d29'31"	-3'-4"	N28'06'17"E	4'-3"
C21	3'-0"	2'-11"	54057'17"	1'-7"	S53'47'04"W	2'-9"
C22	11'-0"	39'-3"	204d20'50"	-51'-0"	N51'31'09"W	21'-6"
C23	3'-0"	3'-10"	73d51'56"	2'-3"	N134'3'18"E	3'-7"
C24	8'-0"	12'-7"	89d59'35"	8'-0"	N21'47'07"E	11'-4"
C25	5'-3"	9'-4"	102d12'15"	6'-6"	N12'20'34"E	8'-2"
C26	10'-0"	37'-6"	21d45'7"	-31'-9"	N71'47'34"E	19'-1"
C27	4'-5"	3'-8"	48d3'10"	2'-0"	N23'10'19"W	3'-7"
C28	9'-0"	12'-2"	77d32'55"	7'-3"	N8'25'26"W	11'-3"
C29	8'-0"	12'-9"	91d4'48"	8'-2"	N30'35'36"E	11'-5"
C30	9'-7"	4'-9"	28d37'6"	2'-5"	N0'20'08"E	4'-9"
C31	9'-0"	14'-2"	89d59'35"	9'-0"	N21'47'07"E	12'-9"
C32	11'-0"	41'-3"	21d45'7"	-34'-11"	N71'47'34"E	21'-0"
C33	17'-7"	17'-10"	58d4'56"	9'-9"	S56'48'49"W	17'-1"
C34	15'-7"	27'-4"	100d40'29"	18'-9"	N35'31'03"E	24'-0"
C35	7'-0"	10'-11"	89d2'52"	6'-11"	N29'34'38"E	9'-10"
C36	7'-0"	11'-1"	90d5'7"	7'-1"	S60'25'22"E	10'-0"
C37	10'-7"	8'-5"	45d44'27"	4'-6"	N73'27'2"E	8'-3"
C38	1'-4"	3'-4"	141d38'38"	3'-10"	N85'46'07"W	2'-6"
C39	3'-9"	2'-6"	38d21'22"	1'-4"	N41'53'5"E	2'-5"
C40	6'-6"	20'-5"	180d0'2"	-149'3058"	N75'03'15"E	13'-0"
C41	3'-0"	3'-2"	60d25'7"	1'-9"	N80'17'28"W	3'-0"
C42	10'-0"	16'-7"	95d8'1"	10'-11"	S62'56'00"E	14'-9"
C43	2'-6"	4'-1"	93d41'17"	2'-8"	N62'12'38"W	3'-8"
C44	10'-0"	23'-3"	133d1'40"	23'-0"	N42'32'26"W	18'-4"
C45	2'-0"	4'-8"	133d36'28"	4'-8"	N42'49'40"W	3'-8"
C46	9'-8"	13'-4"	79d7'35"	8'-0"	S54'30'36"E	12'-4"
C47	3'-0"	3'-11"	74d59'42"	2'-4"	S52'40'49"E	3'-8"
C48	10'-0"	14'-1"	80d49'6"	8'-6"	N55'35'31"W	13'-0"
C49	3'-6"	7'-3"	118d17'4"	5'-10"	N36'51'32"W	6'-0"
C50	10'-3"	16'-3"	90d45'8"	10'-5"	N23'15'39"W	14'-7"

CURVE	RADIUS	LENGTH	DELTA	TANGENT	CHORD	BEARING
C51	48'-0"	22'-3"	26d30'19"	11'-4"	N16'31'55"E	22'-0"
C52	10'-0"	16'-1"	92d18'54"	10'-5"	N42'52'41"W	14'-5"
C53	48'-0"	22'-3"	26d30'19"	11'-4"	N16'31'55"E	22'-0"
C54	2'-0"	12'-7"	0d0'0"	0"	S12'11'07"E	0"
C55	19'-9"	40'-5"	117d15'39"	32'-5"	N81'20'27"W	33'-9"
C56	10'-0"	14'-0"	80d23'17"	8'-5"	S62'54'07"E	12'-11"
C57	37'-3"	6'-5"	9d51'18"	3'-3"	S81'50'01"W	6'-5"
C58	20'-0"	49'-8"	142d20'19"	58'-8"	N22'04'11"W	37'-10"
C59	20'-0"	49'-8"	142d20'19"	58'-8"	N22'04'11"W	37'-10"
C60	20'-6"	57'-3"	160d0'22"	116'-4"	N87'34'00"E	40'-5"
C61	7'-0"	7'-11"	64d43'45"	4'-5"	N27'23'16"W	7'-6"
C62	29'-6"	23'-7"	45d43'48"	12'-5"	S36'53'14"E	22'-11"
C63	10'-0"	10'-4"	59d2'21"	5'-8"	N43'32'31"W	9'-10"
C64	32'-6"	49'-2"	86d44'33"	30'-8"	N29'41'26"W	44'-8"
C65	6'-0"	8'-10"	84d4'54"	5'-5"	N28'21'37"W	8'-0"
C66	17'-0"	30'-7"	103d6'43"	21'-5"	N18'50'43"W	26'-8"
C67	6'-0"	6'-0"	56d56'1"	3'-3"	N41'14'39"E	5'-9"
C68	14'-0"	20'-9"	84d50'3"	12'-10"	N18'11'40"E	18'-11"
C69	6'-0"	8'-6"	81d10'32"	5'-2"	N20'01'25"E	7'-10"
C70	16'-3"	27'-2"	95d37'32"	17'-1"	N27'14'55"E	24'-1"
C71	18'-6"	24'-3"	75d3'40"	14'-3"	N37'31'50"E	22'-6"
C72	20'-0"	26'-2"	75d3'40"	15'-4"	N37'31'50"E	24'-4"
C73	21'-6"	30'-8"	81d41'17"	18'-7"	NORTH	28'-1"
C74	20'-0"	29'-7"	84d50'18"	18'-3"	NORTH	27'-0"
C75	9'-0"	14'-2"	90d0'0"	9'-0"	N45'00'00"W	12'-9"
C76	7'-6"	11'-9"	90d0'0"	7'-6"	N45'00'00"W	10'-7"
C77	13'-0"	1'-6"	6d38'48"	9"	N84'22'43"W	1'-6"
C78	13'-0"	8'-0"	35d12'45"	4'-2"	N63'26'56"W	7'-10"
C79	13'-0"	20'-8"	91d6'45"	13'-3"	N0'17'10"W	18'-7"
C80	13'-0"	8'-1"	35d47'3"	4'-2"	N63'09'47"E	8'-0"
C81	13'-0"	1'-6"	6d38'48"	9"	N84'22'43"E	1'-6"
C82	13'-0"	5'-0"	22d10'30"	2'-7"	S81'12'38"E	5'-0"
C83	13'-0"	31'-10"	140d14'47"	35'-11"	NORTH	24'-5"
C84	13'-0"	5'-0"	22d10'30"	2'-7"	S81'12'38"W	5'-0"
C85	30'-0"	16'-0"	30d29'39"	8'-2"	N15'14'49"E	15'-9"
C86	61'-9"	54'-8"	50d41'31"	29'-3"	N30'54'12"E	52'-11"
C87	56'-9"	50'-3"	50d41'31"	26'-11"	N30'54'12"E	48'-7"
C88	34'-6"	21'-3"	35d13'40"	10'-11"	N30'54'12"E	20'-11"
C89	29'-6"	20'-2"	39d10'11"	10'-6"	N40'36'25"W	19'-9"
C90	30'-0"	15'-2"	29d2'1"	7'-9"	S45'40'29"W	15'-0"
C91	6'-0"	4'-11"	47d12'38"	2'-7"	S38'12'59"E	4'-10"
C92	15'-5"	13'-7"	50d24'35"	7'-3"	N39'01'38"W	13'-2"
C93	8'-0"	9'-0"	64d36'2"	5'-1"	N31'55'54"W	8'-7"
C94	15'-3"	18'-4"	69d0'19"	10'-6"	N34'08'03"W	17'-3"
C95	6'-0"	5'-2"	49d26'27"	2'-9"	N24'43'14"W	5'-0"
C96	12'-0"	14'-7"	69d45'7"	8'-4"	N47'52'00"W	13'-9"
C97	16'-0"	27'-5"	98d14'44"	18'-6"	N33'37'12"W	24'-2"
C98	15'-8"	5'-3"	19d7'44"	2'-8"	S62'32'42"E	5'-2"
C99	17'-7"	17'-11"	58d25'0"	9'-10"	N14'15'26"E	17'-2"

LINE DATA TABLES

LINE	LENGTH	CHORD BEARING
L1	12'-2"	S 73d3'41" E
L2	6'-3"	S 75d3'40" W
L3	8'-10"	S 75d19'44" W
L4	8'-3"	S 74d46'32" W
L5	7'-0"	S 75d3'40" W
L6	11'-7"	S 75d3'40" W
L7	9'-8"	S 75d7'49" W
L8	8'-9"	S 75d2'42" W
L9	12'-6"	S 75d1'9" W
L10	21'-0"	S 75d3'40" W
L11	14'-0"	S 75d3'40" W
L12	8'-9"	S 75d3'40" W
L13	18'-2"	S 75d1'56" W
L14	1'-5"	SOUTH
L15	7'-0"	SOUTH
L16	4'-0"	SOUTH
L17	3'-7"	EAST
L18	24'-6"	SOUTH
L19	4'-8"	WEST
L20	8'-3"	SOUTH
L21	17'-1"	SOUTH
L22	20'-0"	SOUTH
L23	2'-11"	SOUTH
L24	65'-11"	SOUTH
L25A	4'-6"	SOUTH
L25B	4'-5"	SOUTH
L26	8'-0"	WEST
L27	43'-2"	NORTH
L28	8'-6"	NORTH
L29	4'-0"	EAST
L30	2'-4"	WEST
L31	6'-6"	WEST
L32		

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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: 03-29-2013
 SCALE: PER PLAN
 DRAWN: CHS
 SHEET: LC-101
 12 OF 23 SHEETS

CONSTRUCTION METALS AND JOINTING LEGEND:

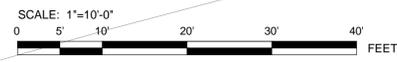
SYM.	CALLOUT	DESCRIPTION	SUPPLIER	DETAIL
---		STEEL PIPE COPING	-	A
---		GRIND EDGE	-	B
---	1	FLAT RAIL / SLANT RAIL (SEE SECTIONS)	-	M
---	2	GUARD RAIL	-	O
---		BOTTOM OF SLOPE	-	J,N
CJ		BOTTOM OF SLOPE/COLD JOINT	-	J,N,G
CJ		COLD JOINT	-	G
SJ		SAW CUT/ CONSTRUCTION JOINT	-	F
EJ		EXPANSION JOINT	-	F

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	-	-
---	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)	-	-

CONCRETE COLOR:

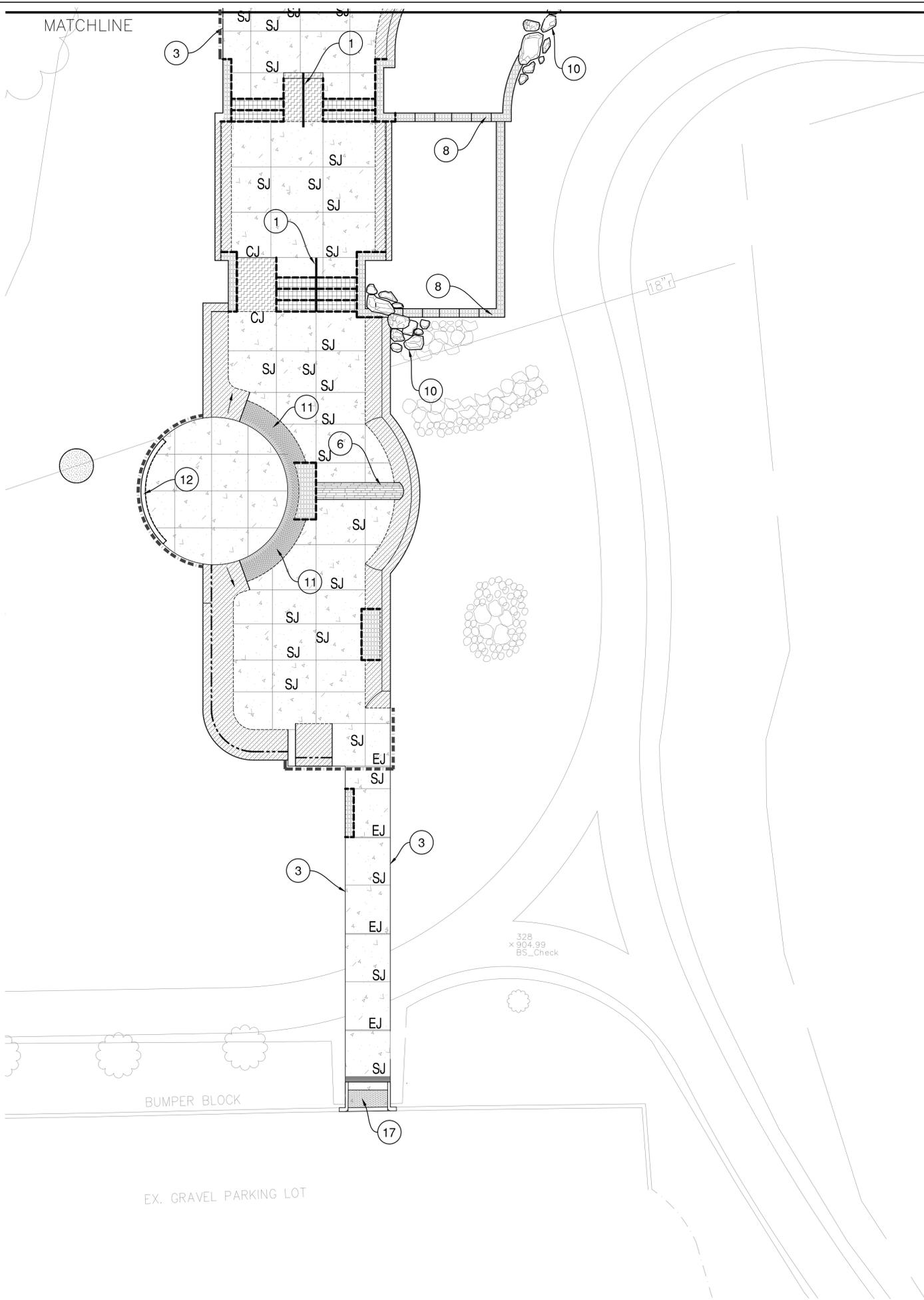
DESCRIPTION	SUPPLIER
ALL CONCRETE PAVING/ CAST-IN-PLACE/SHOTCRETE	COLOR: DRY PIGMENT LAMP BLACK APPLY @ 1LB PER C.Y. OF CONCRETE DANIEL SMITH OR APPROVED EQUAL



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Owner: C:\Users\Public\Documents\CHS Design, Inc.\projects\1150-12_Ann Arbor Skatepark\CD\1150-LC-CONSTRUCTION.dwg, Fri, Mar 29, 2013 12:03:26 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	-	-
---	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)	-	-

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.



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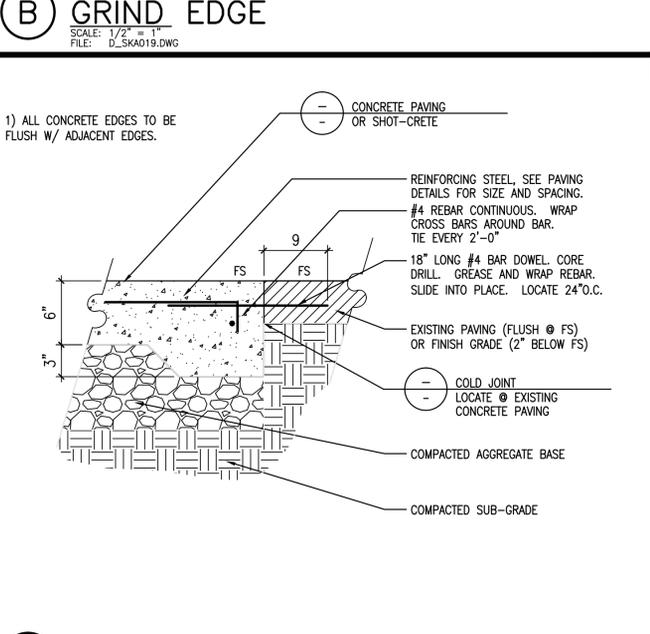
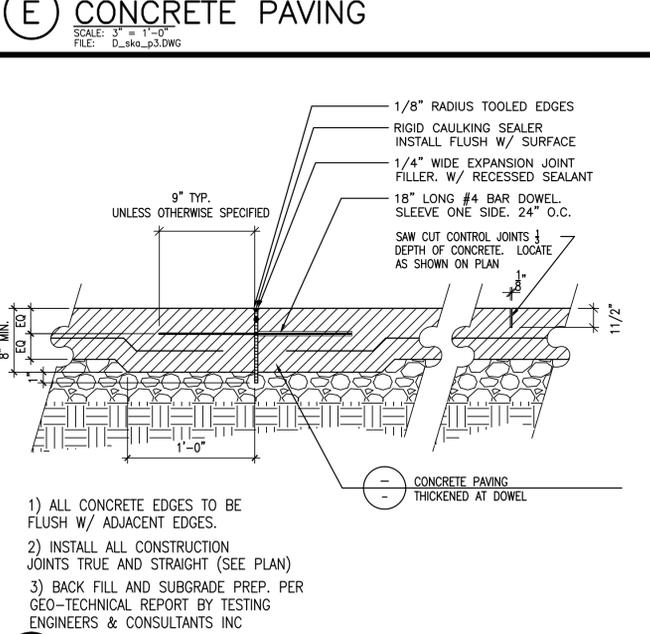
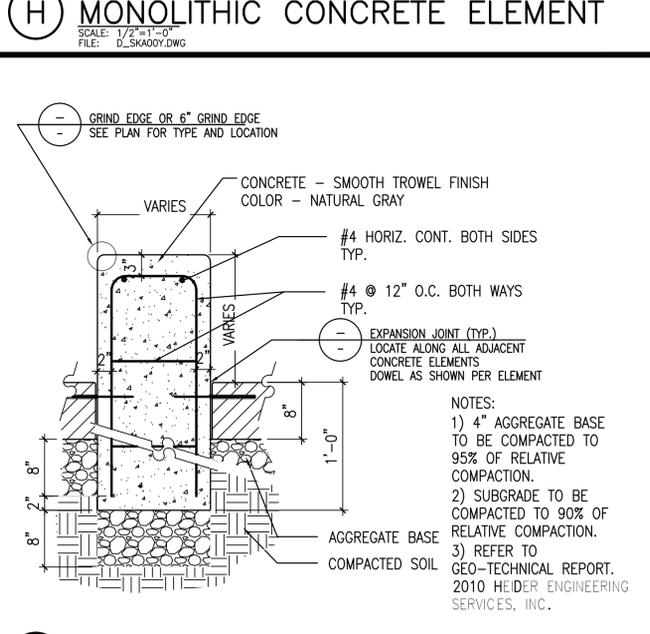
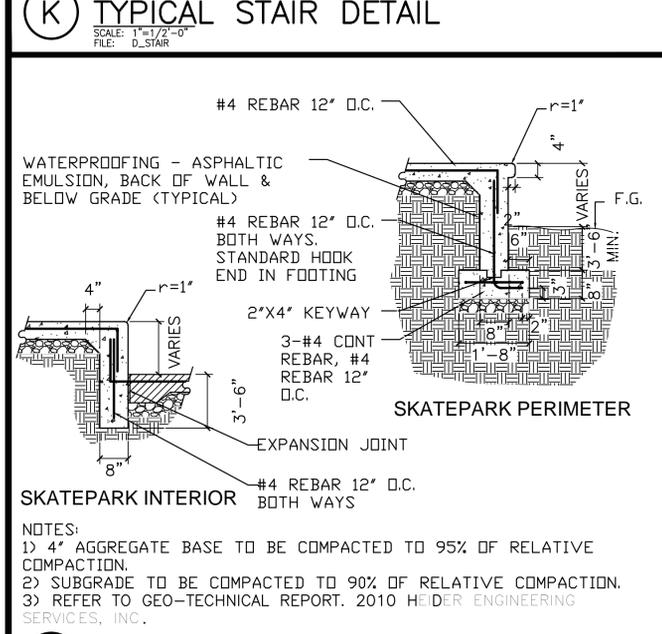
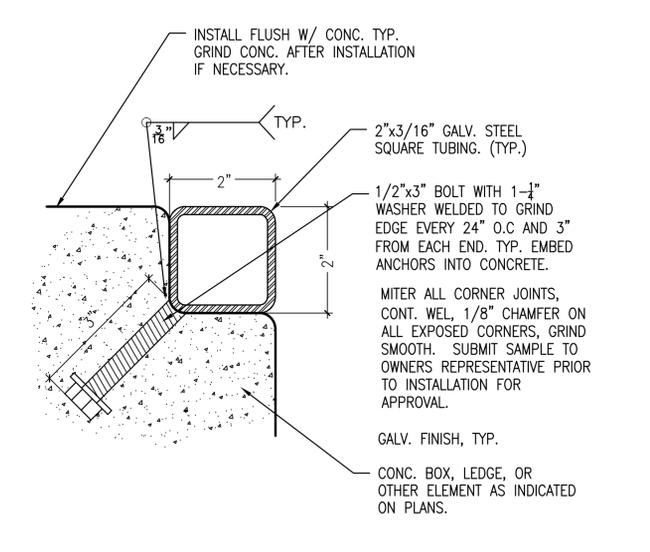
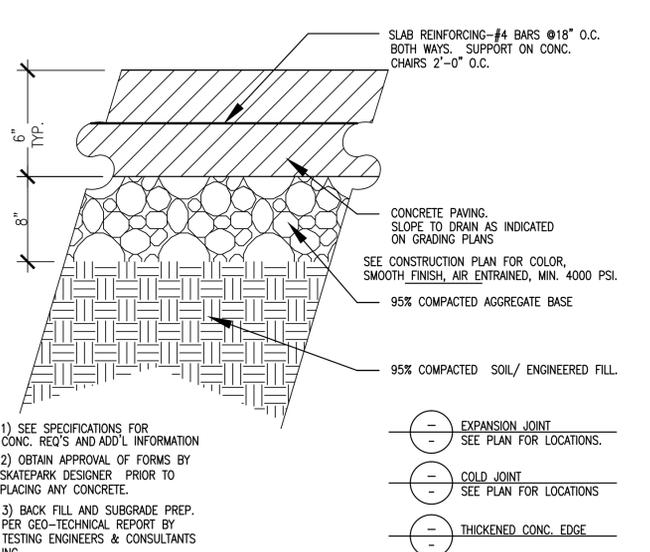
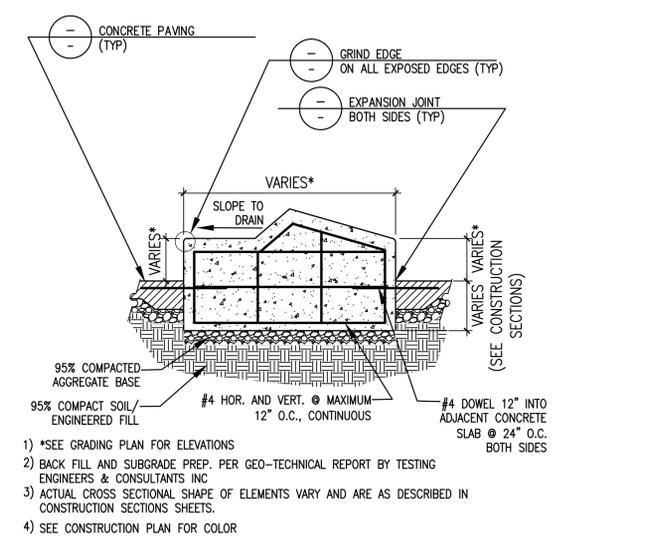
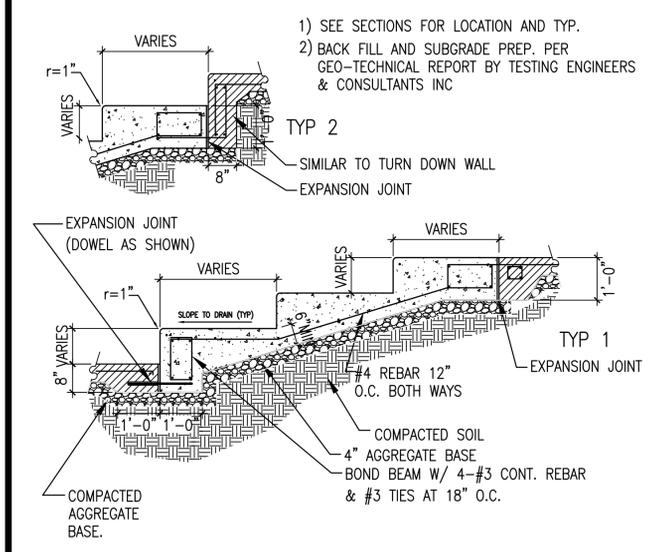
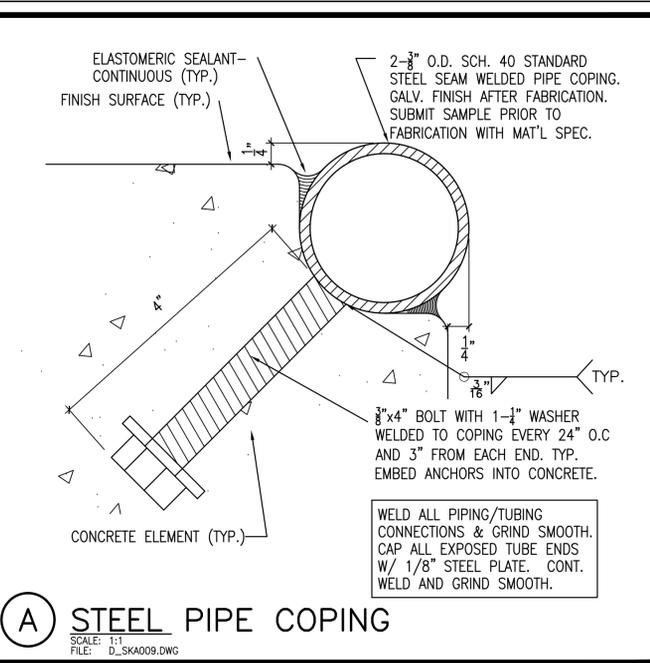
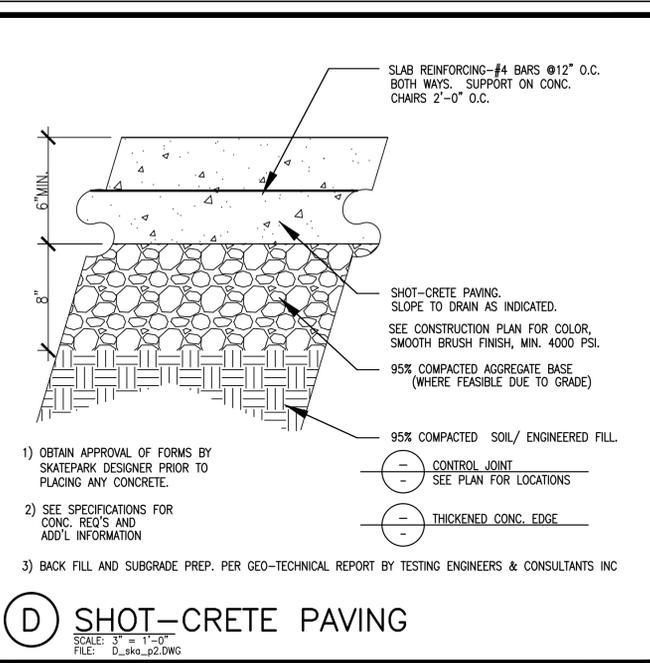
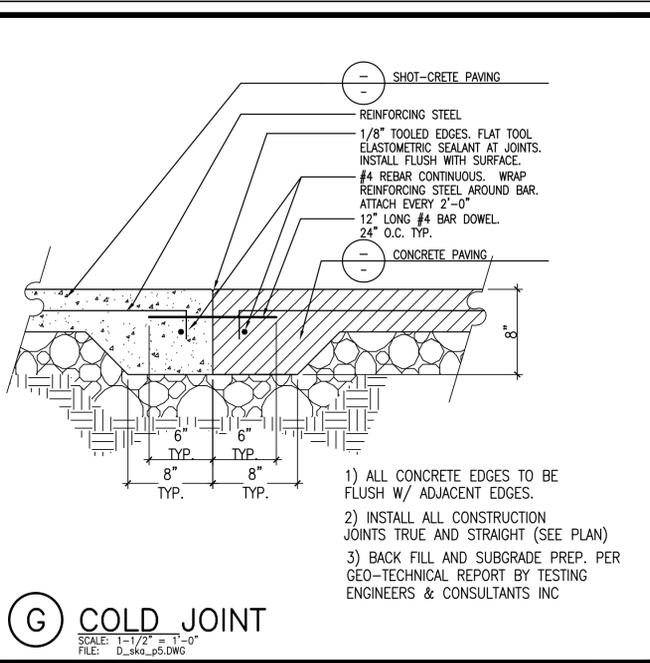
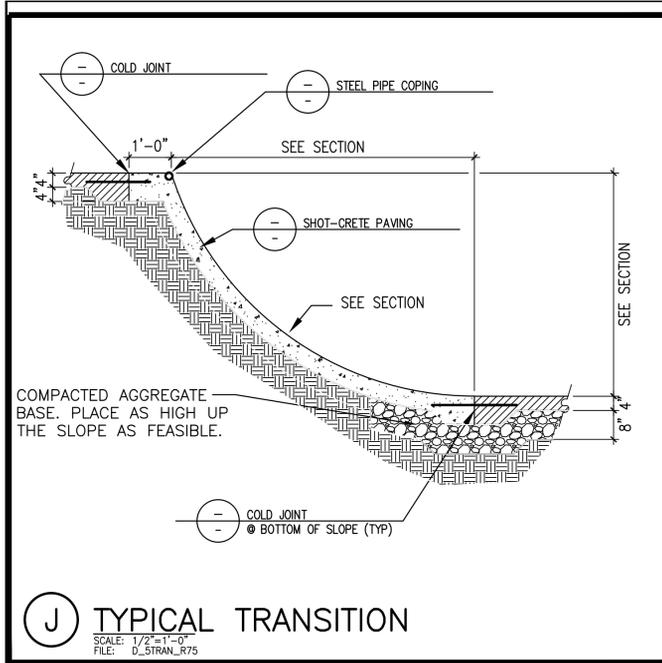
PROJECT: ANN ARBOR SKATEPARK
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION PLAN
SUBMITTAL: BID SET



JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: LC-102
13 OF 23 SHEETS





J TYPICAL TRANSITION
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G COLD JOINT
SCALE: 1-1/2" = 1'-0"
FILE: D_sko_p5.DWG

D SHOT-CRETE PAVING
SCALE: 3" = 1'-0"
FILE: D_sko_p2.DWG

A STEEL PIPE COPING
SCALE: 1:1
FILE: D_SKA009.DWG

K TYPICAL STAIR DETAIL
SCALE: 1" = 1'-0"
FILE: D_STAIR

H MONOLITHIC CONCRETE ELEMENT
SCALE: 1/2" = 1'-0"
FILE: D_SKA019.DWG

E CONCRETE PAVING
SCALE: 3" = 1'-0"
FILE: D_sko_p3.DWG

B GRIND EDGE
SCALE: 1/2" = 1'-0"
FILE: D_SKA019.DWG

L TYPICAL TURNDOWN WALL
SCALE: 1/2" = 1'-0"
FILE: D_TURNDOWN

I TYPICAL CONCRETE LEDGE
SCALE: 1" = 1'-0"
FILE: D_SKA LEDGE.DWG

F EXPANSION JOINTS
SCALE: 1-1/2" = 1'-0"
FILE: D_sko_p4.DWG

C THICKENED CONC. EDGE
SCALE: 1-1/2" = 1'-0"
FILE: D_SKA_P1.DWG

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

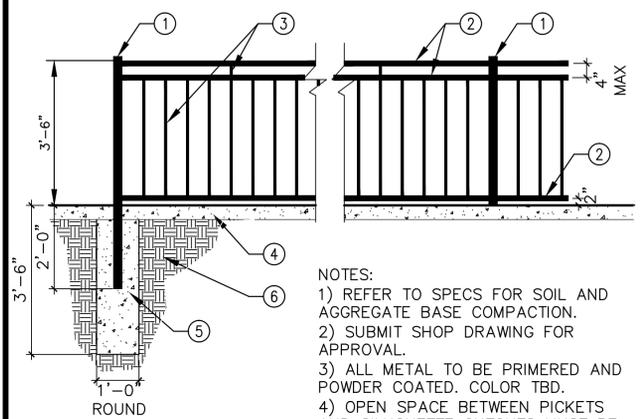
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SUBMITTAL: BID SET



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JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: **LC-201**
14 OF 23 SHEETS

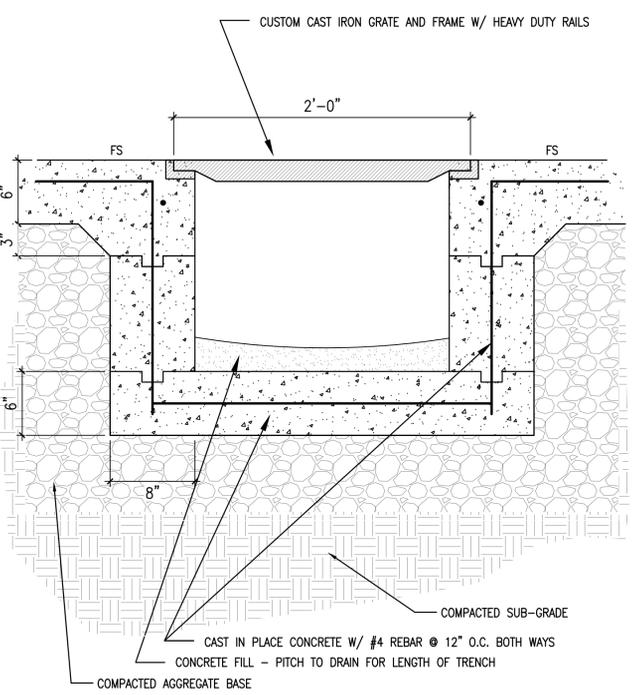
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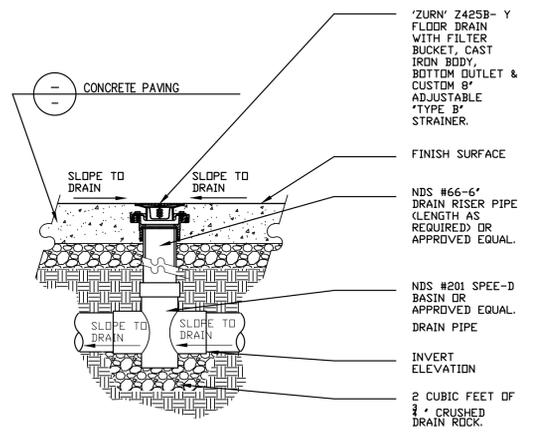
- CALL-OUT LEGEND**
- ① 2.5" X 2.5" TUBULAR STEEL POSTS 11 GAUGE. EXTEND POST 1.25" ABOVE TOP CROSS BAR. SPACING 8' O.C. IN ALL AREAS OR AS PER PLAN.
 - ② 1.5" SQ. 11 GA TUBULAR STEEL CROSS BAR.
 - ③ 1" SQ. 14 GA SOLID STEEL PICKETS 4.75" O.C. SPACING WELD TO CROSS BAR.
 - ④ CONCRETE PAVING/ 12" MOW STRIP/ RETAINING WALL (SEE PLANS)
 - ⑤ CONCRETE FOOTING 12" DIA. MIN. 42"
 - ⑥ COMPACT NATIVE SOIL

NOTES:
 1) REFER TO SPECS FOR SOIL AND AGGREGATE BASE COMPACTION.
 2) SUBMIT SHOP DRAWING FOR APPROVAL.
 3) ALL METAL TO BE PRIMERED AND POWDER COATED. COLOR TBD.
 4) OPEN SPACE BETWEEN PICKETS AND SILHOUETTE CUTOUTS MUST BE LESS THAN 4" DIA.
 5) REFER TO FENCE LAYOUT PLAN ON SHEET SP-2.1

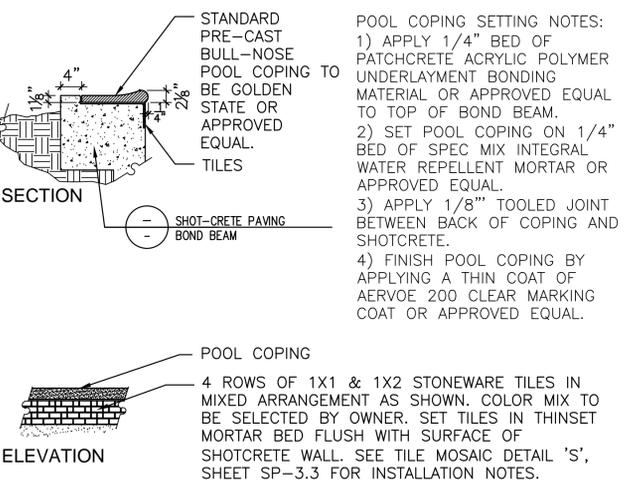
○ GUARD RAIL
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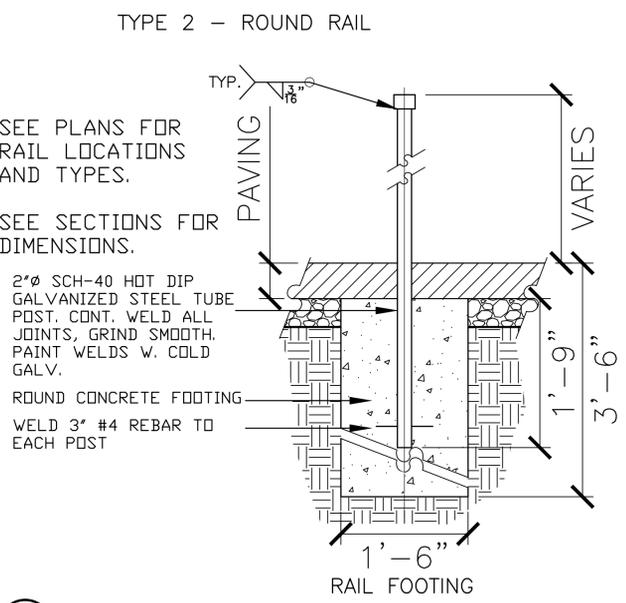
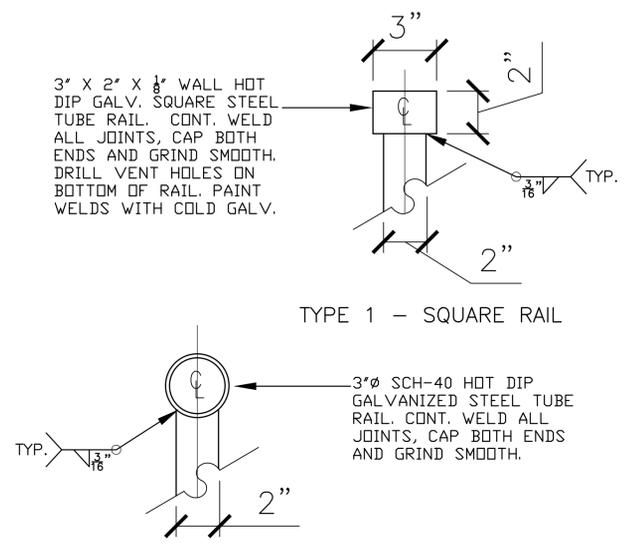
○ METAL GRATE
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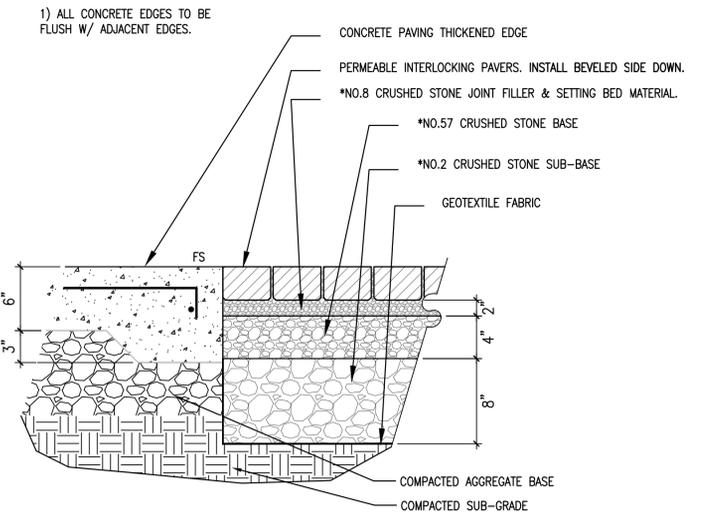
○ DRAIN INLET
 SCALE: 1"=1'-0"
 FILE: D_SWPP07



○ PRE-CAST POOL COPING
 SCALE: 3/4"=1'-0"
 FILE: D_SKA_P7.DWG



○ TYPICAL RAILS
 SCALE: N.T.S.
 FILE: D_RAIL



○ PERMEABLE CONCRETE BRICK RILL
 SCALE: 1-1/2"=1'-0"
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CRUSHED STONE GRADING REQUIREMENTS

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

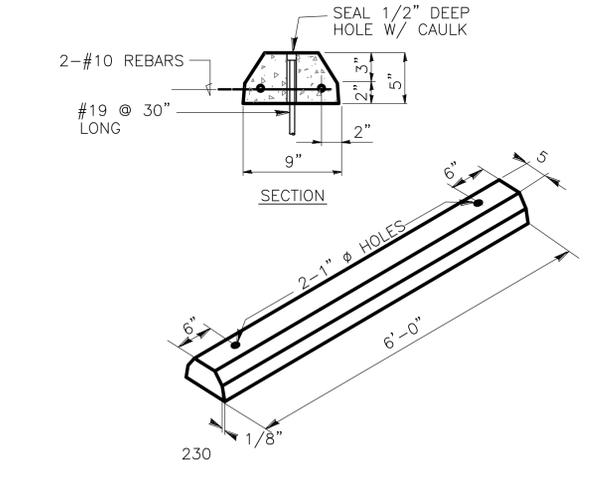
Sieve Size	Percent Passing
12.5 mm (1/2 in.)	100
9.5 mm (3/8 in.)	85 to 100
4.75 mm (No. 4)	10 to 30
2.36 mm (No. 8)	0 to 10
1.16 mm (No. 16)	0 to 5

Table 2
 ASTM No. 57 Base
 Grading Requirements

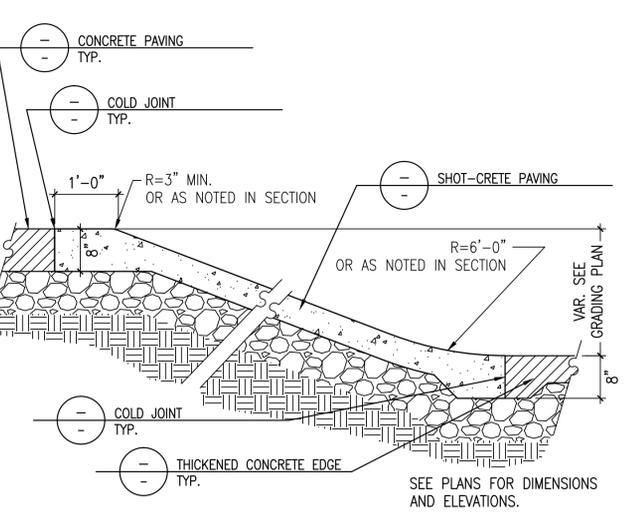
Sieve Size	Percent Passing
37.5 mm (1 1/2 in.)	100
25 mm (1 in.)	95 to 100
12.5 mm (1/2 in.)	25 to 60
4.75 mm (No. 4)	0 to 10
2.36 mm (No. 8)	0 to 5

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



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



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

REVISIONS	BY

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 www.charlesstrawtner.com

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

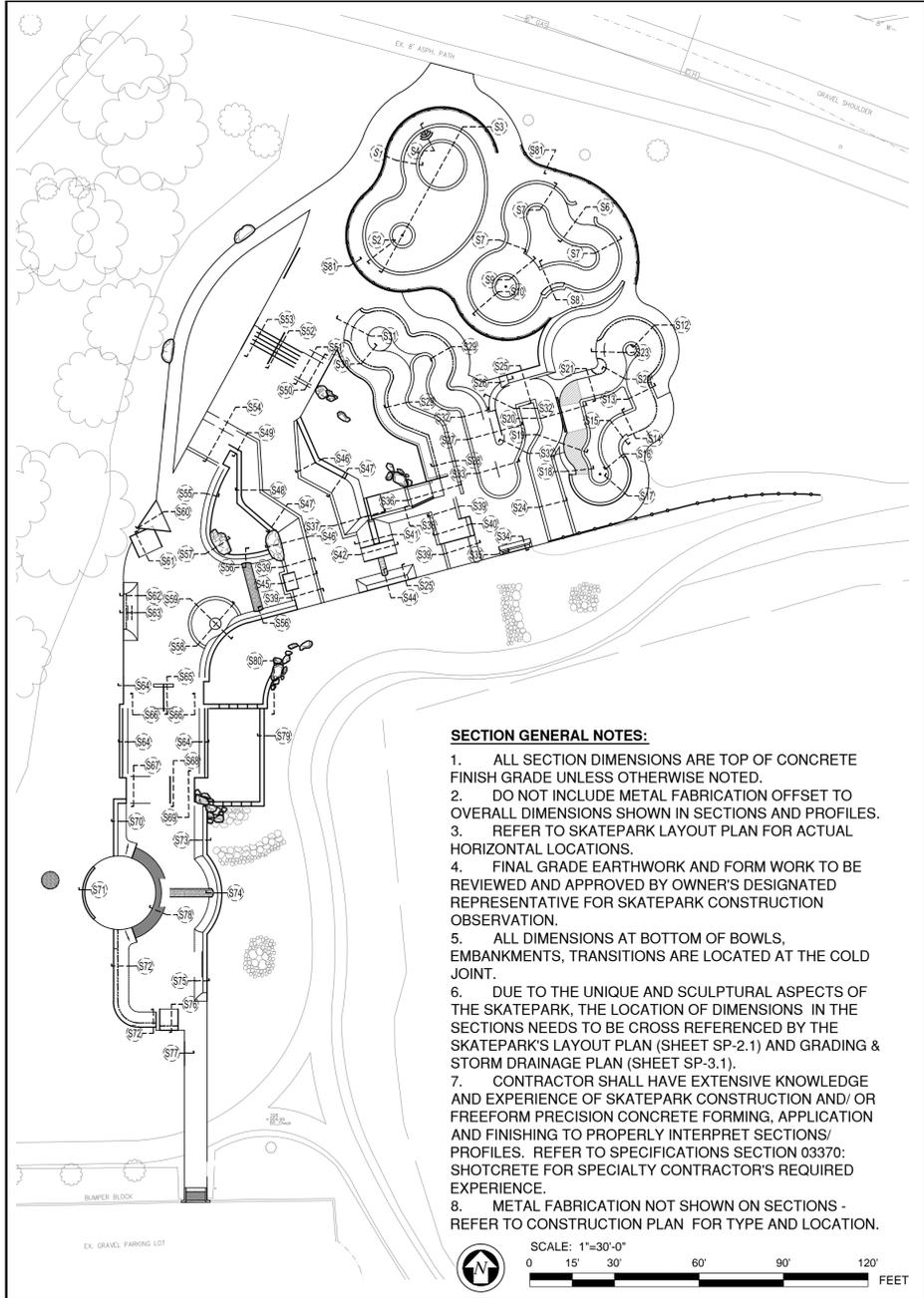
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 SUBMITTAL: BID SET



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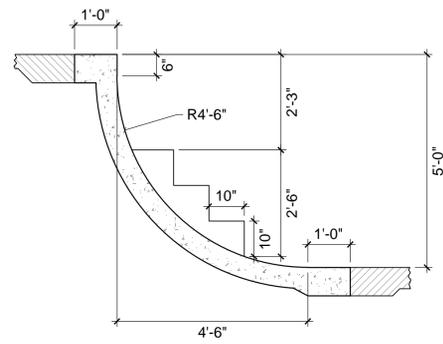
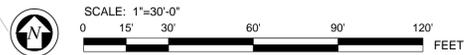
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 DATE: 03-29-2013
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 DRAWN: CHS
 SHEET: **LC-202**
 15 OF 23 SHEETS

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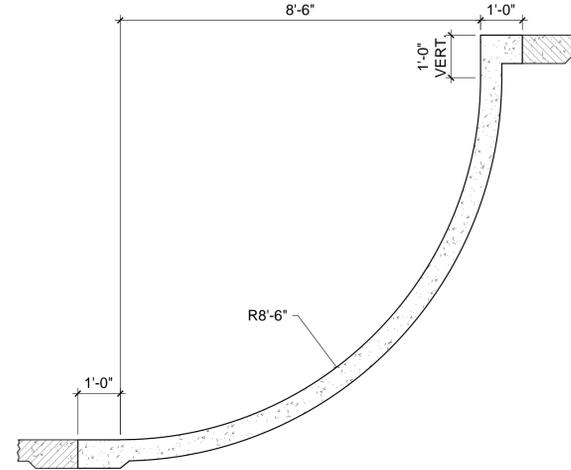


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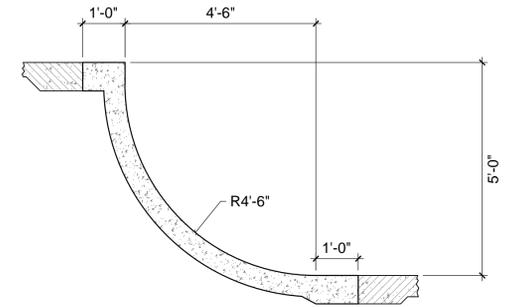
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2. DO NOT INCLUDE METAL FABRICATION OFFSET TO OVERALL DIMENSIONS SHOWN IN SECTIONS AND PROFILES.
3. REFER TO SKATEPARK LAYOUT PLAN FOR ACTUAL HORIZONTAL LOCATIONS.
4. FINAL GRADE EARTHWORK AND FORM WORK TO BE REVIEWED AND APPROVED BY OWNER'S DESIGNATED REPRESENTATIVE FOR SKATEPARK CONSTRUCTION OBSERVATION.
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8. METAL FABRICATION NOT SHOWN ON SECTIONS - REFER TO CONSTRUCTION PLAN FOR TYPE AND LOCATION.



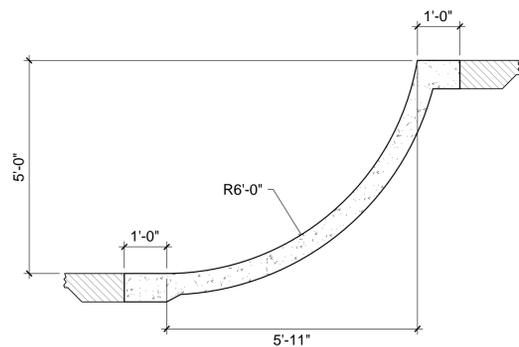
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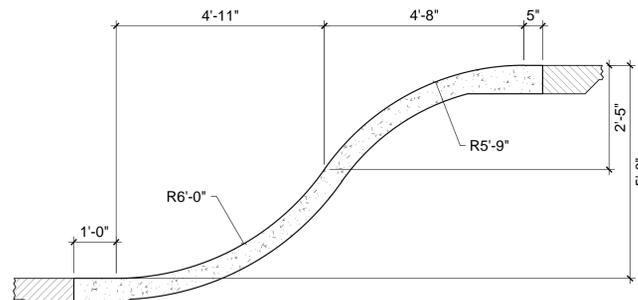
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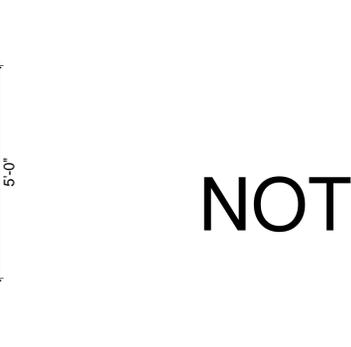
S1 SECTION
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S7 SECTION
1/2"=1'-0"

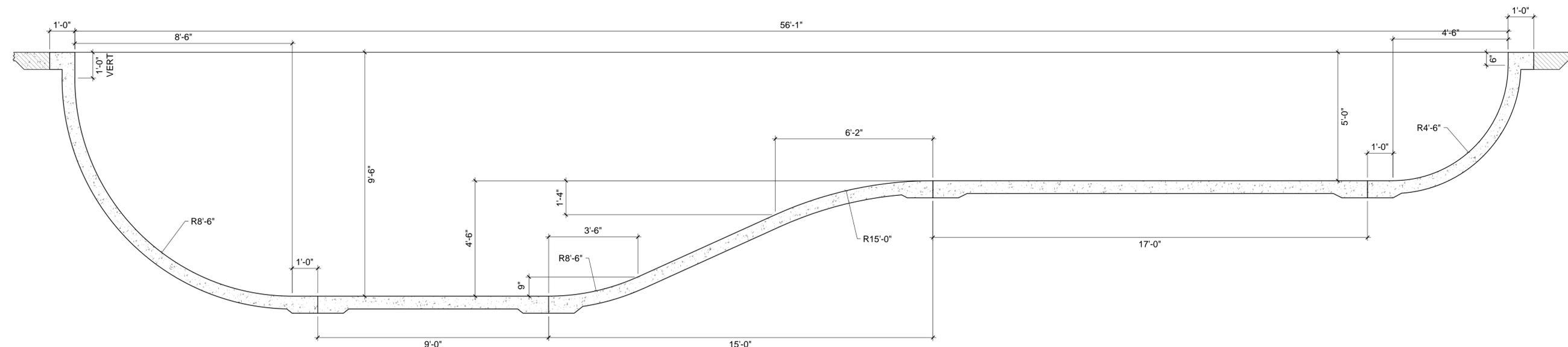


S6 SECTION
1/2"=1'-0"



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

NOT USED



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

REVISIONS	BY

WALLY HOLLYDAY
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CHARLES H. STRAWTER, D. DESIGN, INC.
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PROJECT: ANN ARBOR SKATEPARK
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SUBMITTAL: BID SET

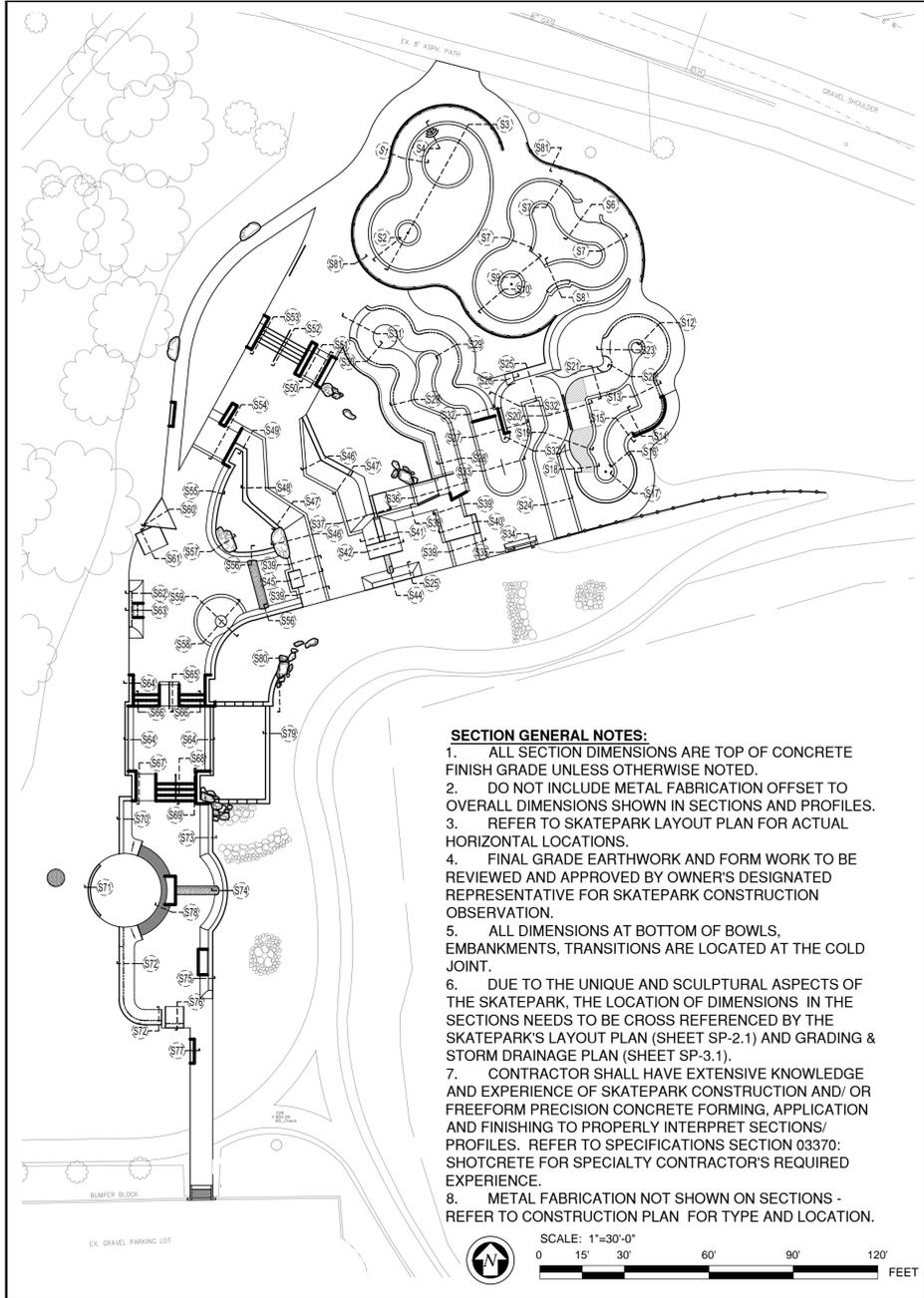
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LANDSCAPE ARCHITECT

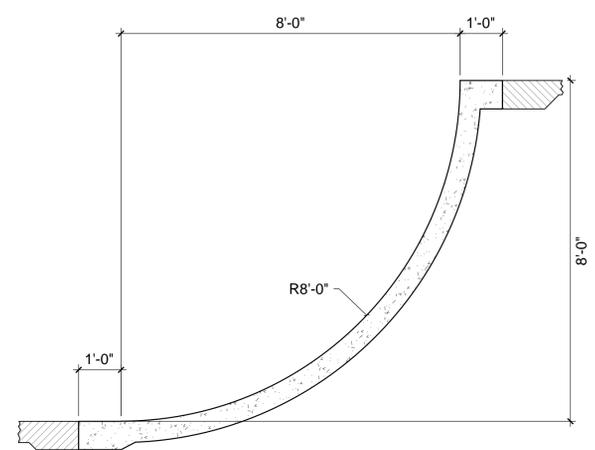
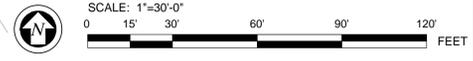
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DRAWN: CHS
SHEET: LC-301
16 OF 23 SHEETS

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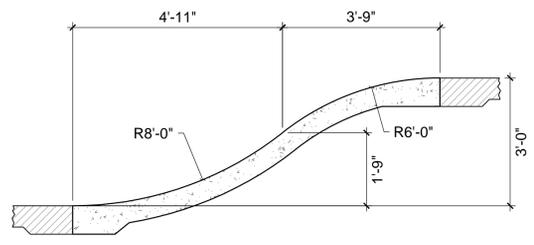


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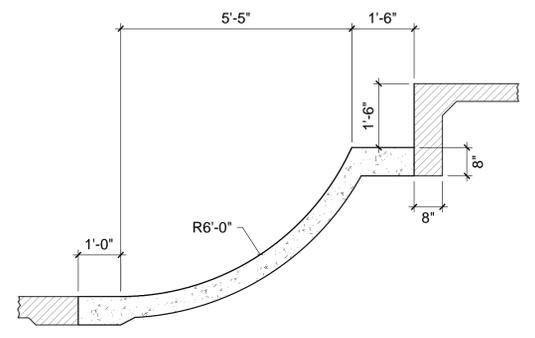
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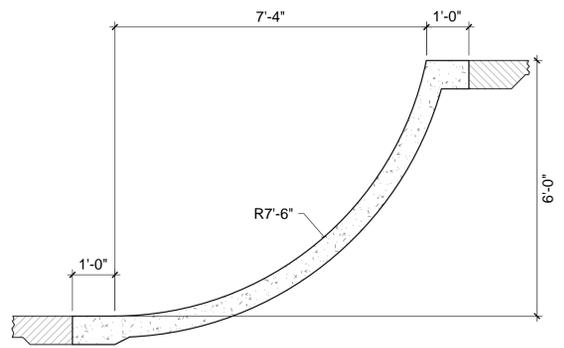
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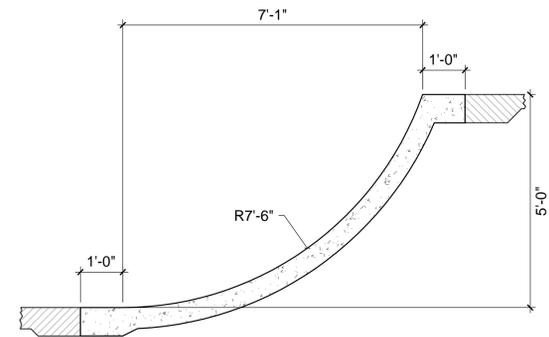
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S8 SECTION
1/2"=1'-0"



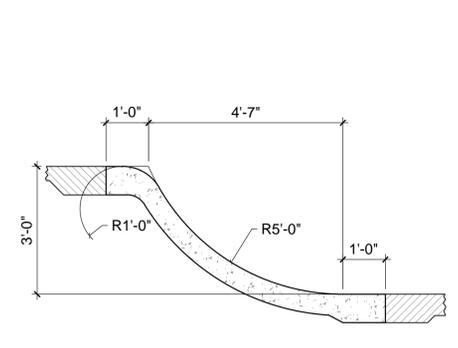
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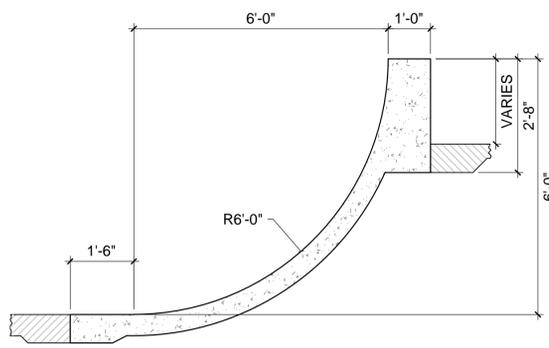
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S11 SECTION
1/2"=1'-0"

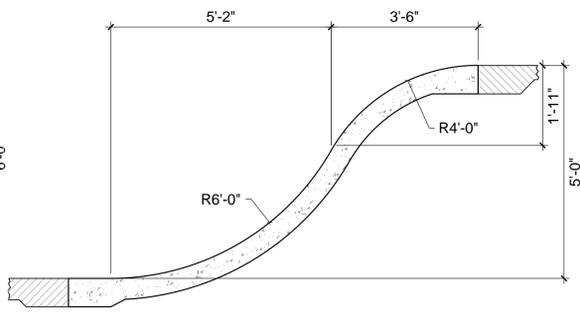
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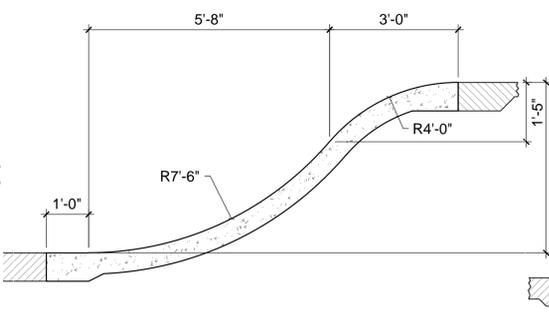
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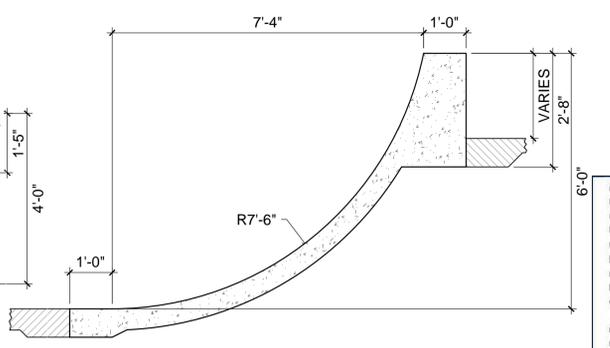
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1/2"=1'-0"



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



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



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

REVISIONS	BY

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

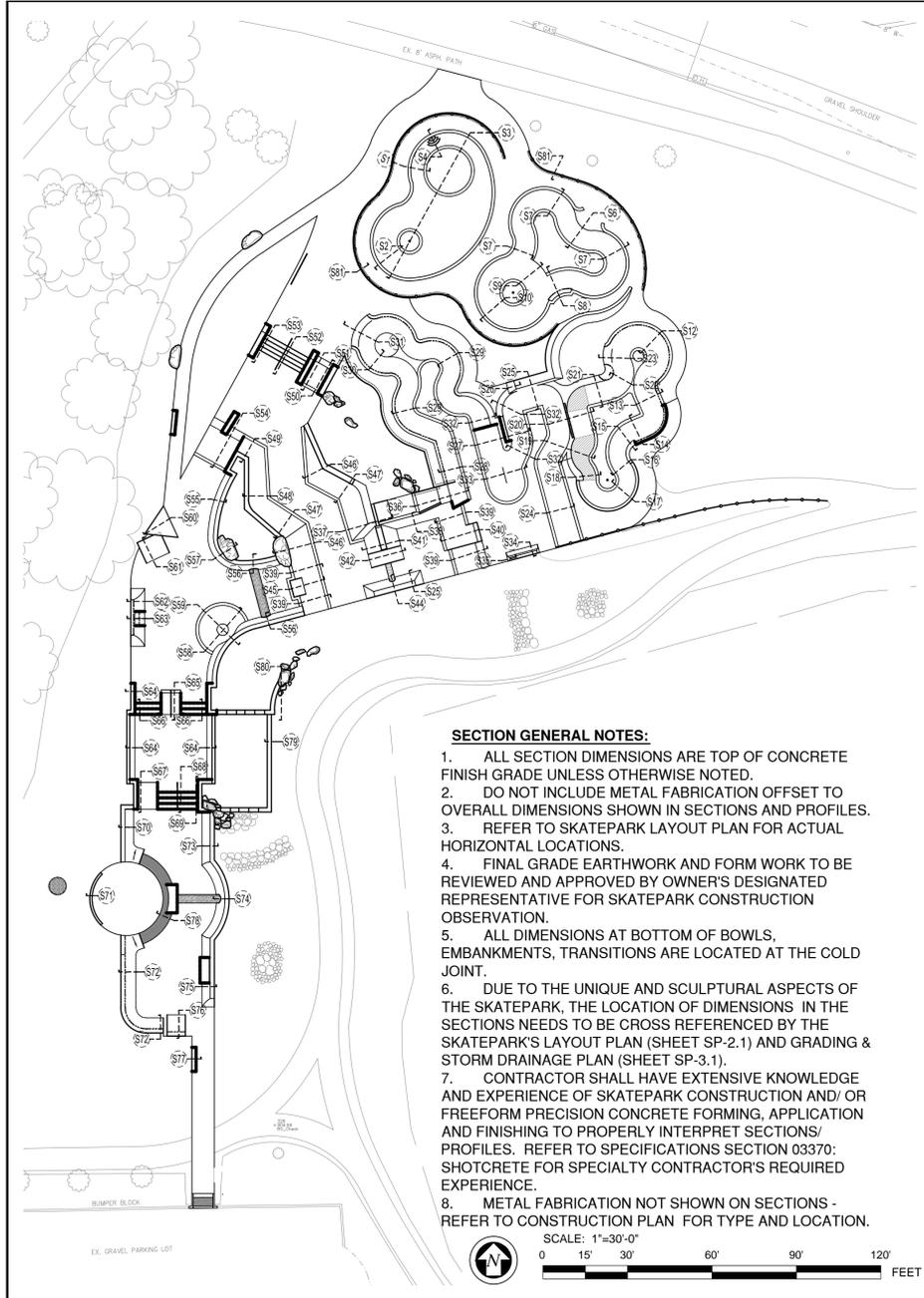
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SUBMITTAL: BID SET



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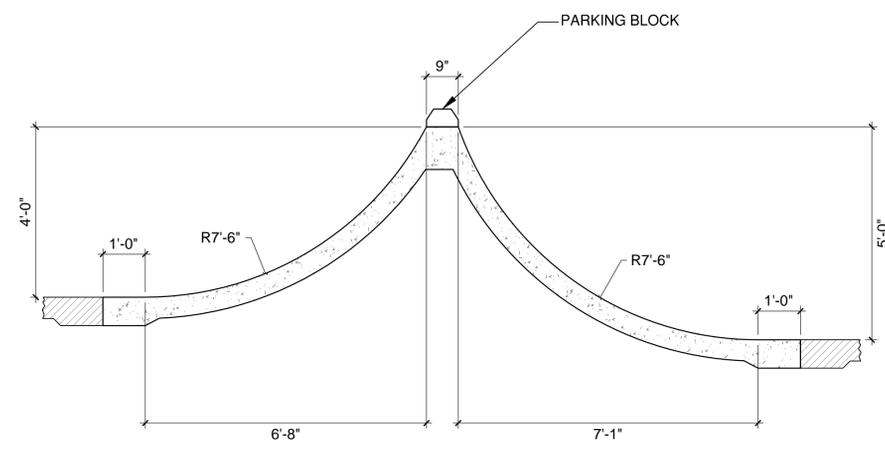
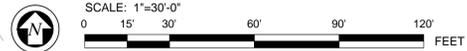
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17 OF 23 SHEETS

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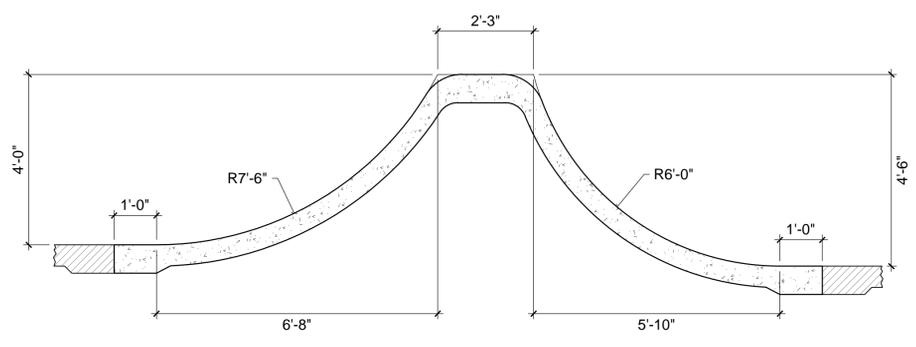


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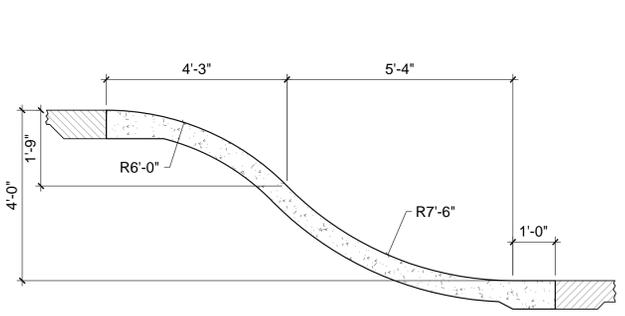
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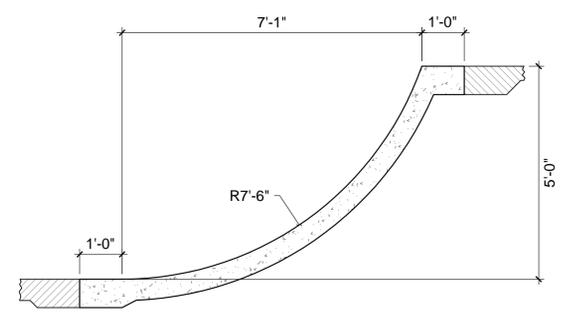
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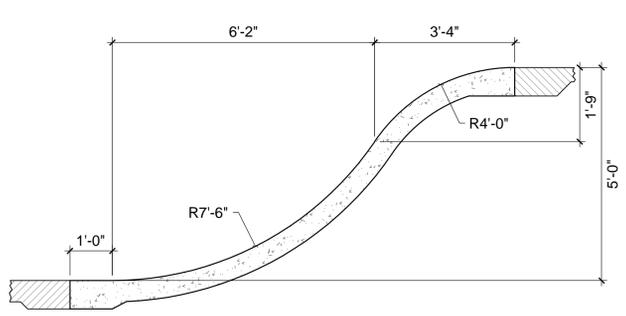
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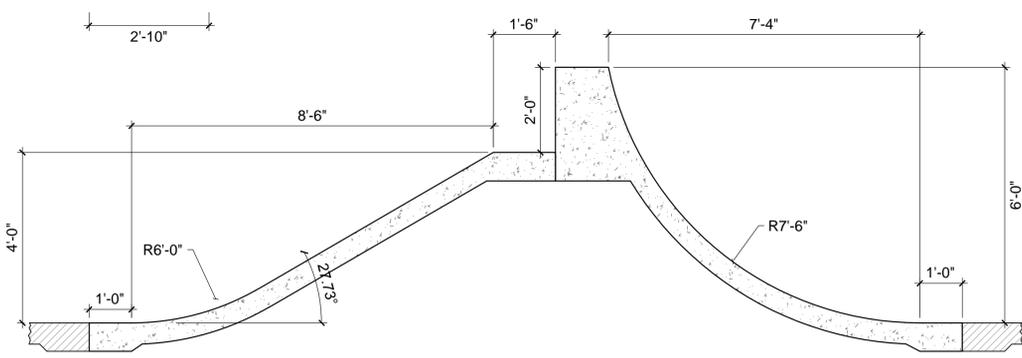
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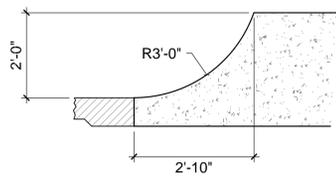
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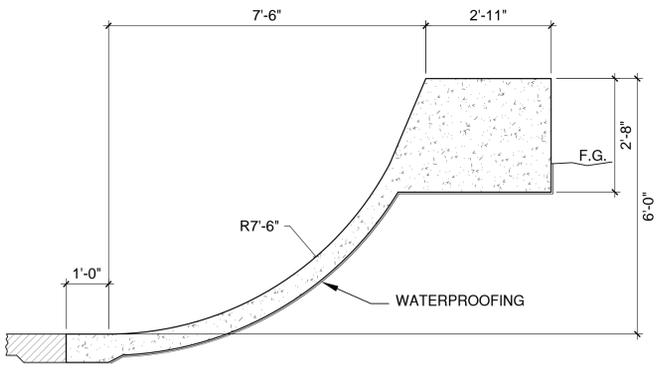
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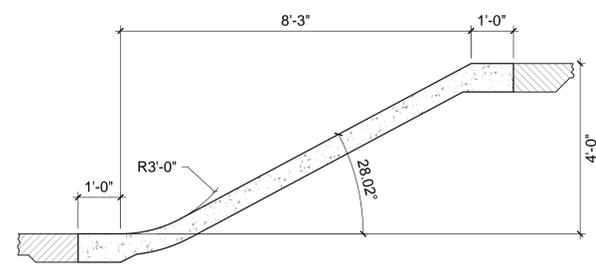
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S25 SECTION
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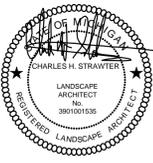
REVISIONS	BY

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design
skateparkslin.com

CHARLES H. STRAWTNER, P.E., P.L.S.
LANDSCAPE ARCHITECT
150 W. LANSING BLVD., 3RD FLOOR
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734.769.1111

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

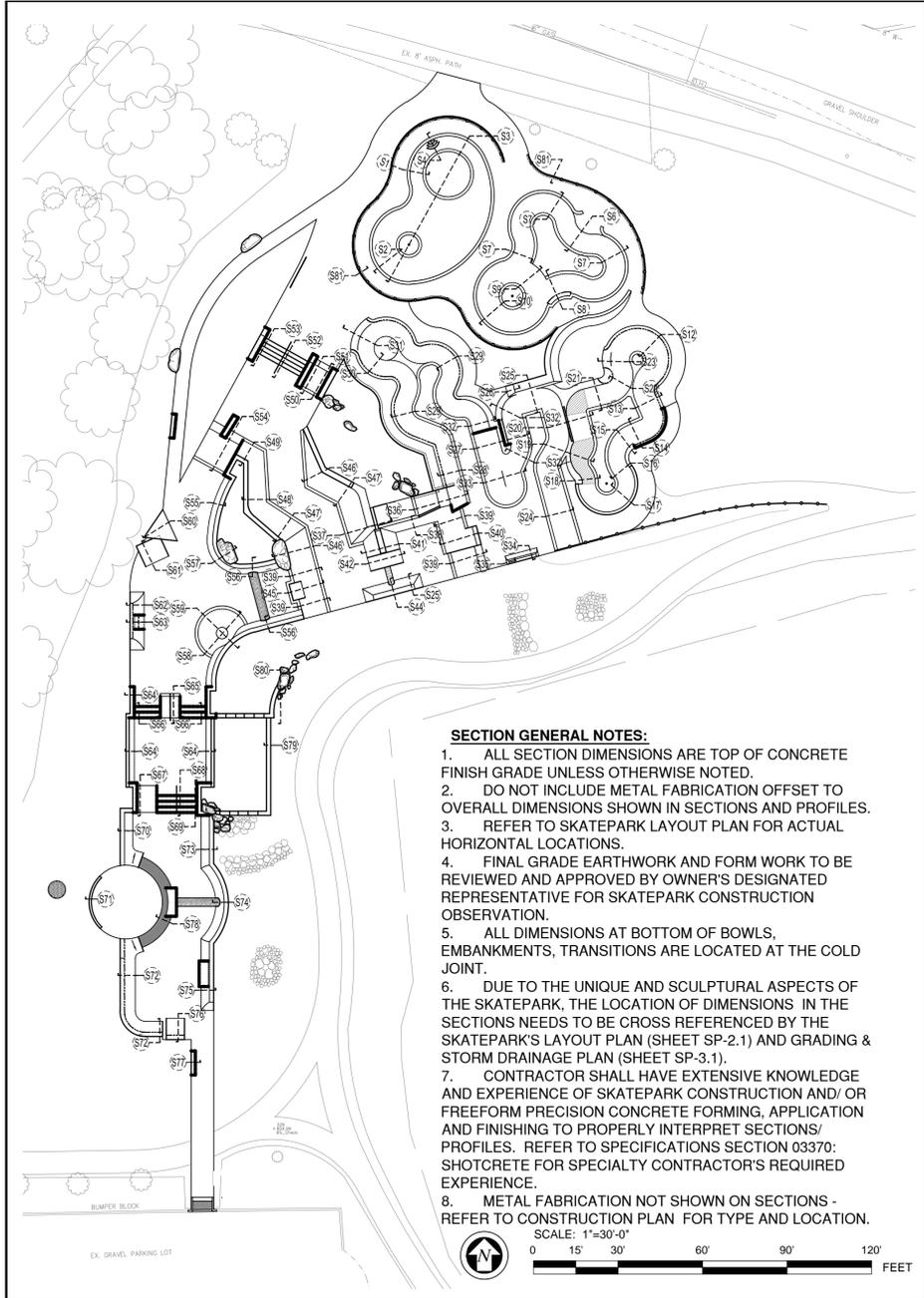
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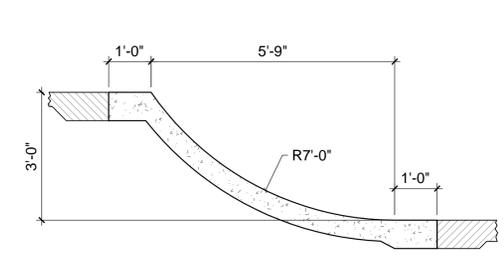
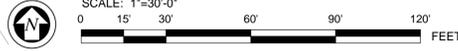
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DATE: 03-29-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET:
LC-303
18 OF 23 SHEETS

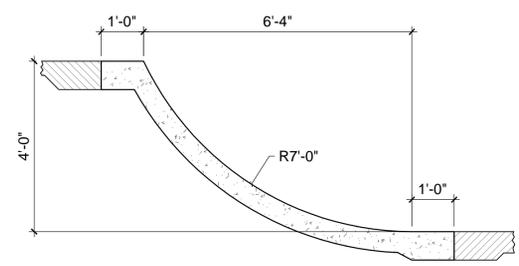
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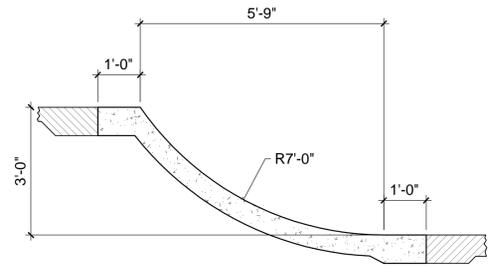
- SECTION GENERAL NOTES:**
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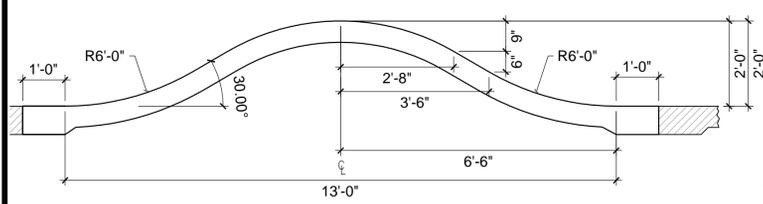
S30 SECTION
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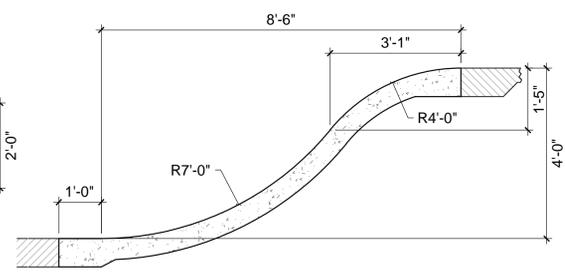
S29 SECTION
1/2"=1'-0"



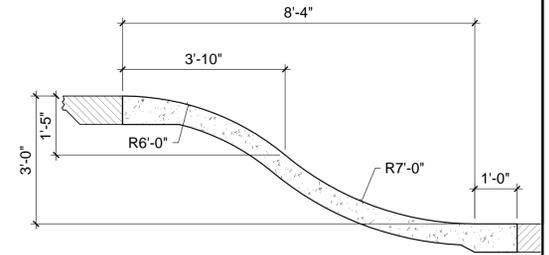
S28 SECTION
1/2"=1'-0"



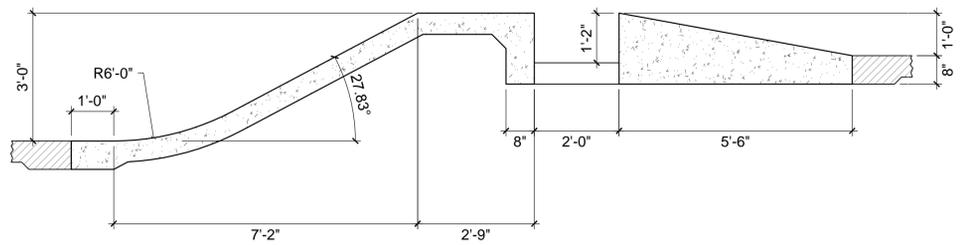
S33 SECTION
1/2"=1'-0"



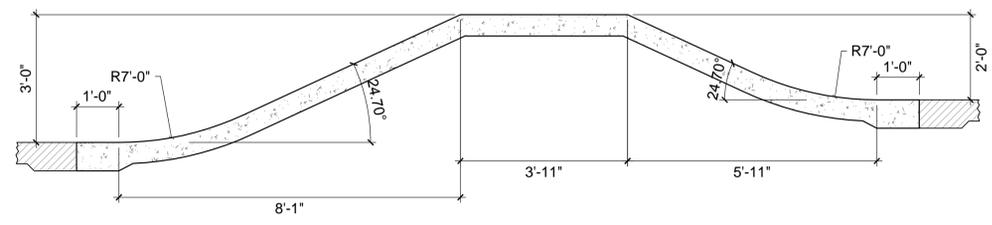
S32 SECTION
1/2"=1'-0"



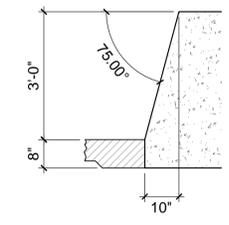
S31 SECTION
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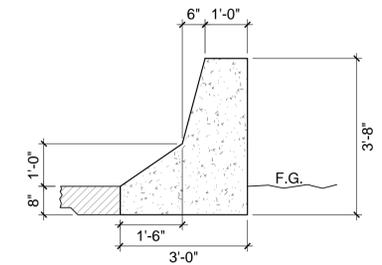
S37 SECTION
1/2"=1'-0"



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



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



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

REVISIONS	BY

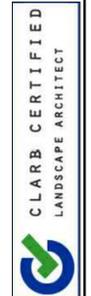
WALLY HOLLYDAY
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PROJECT: ANN ARBOR SKATEPARK
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

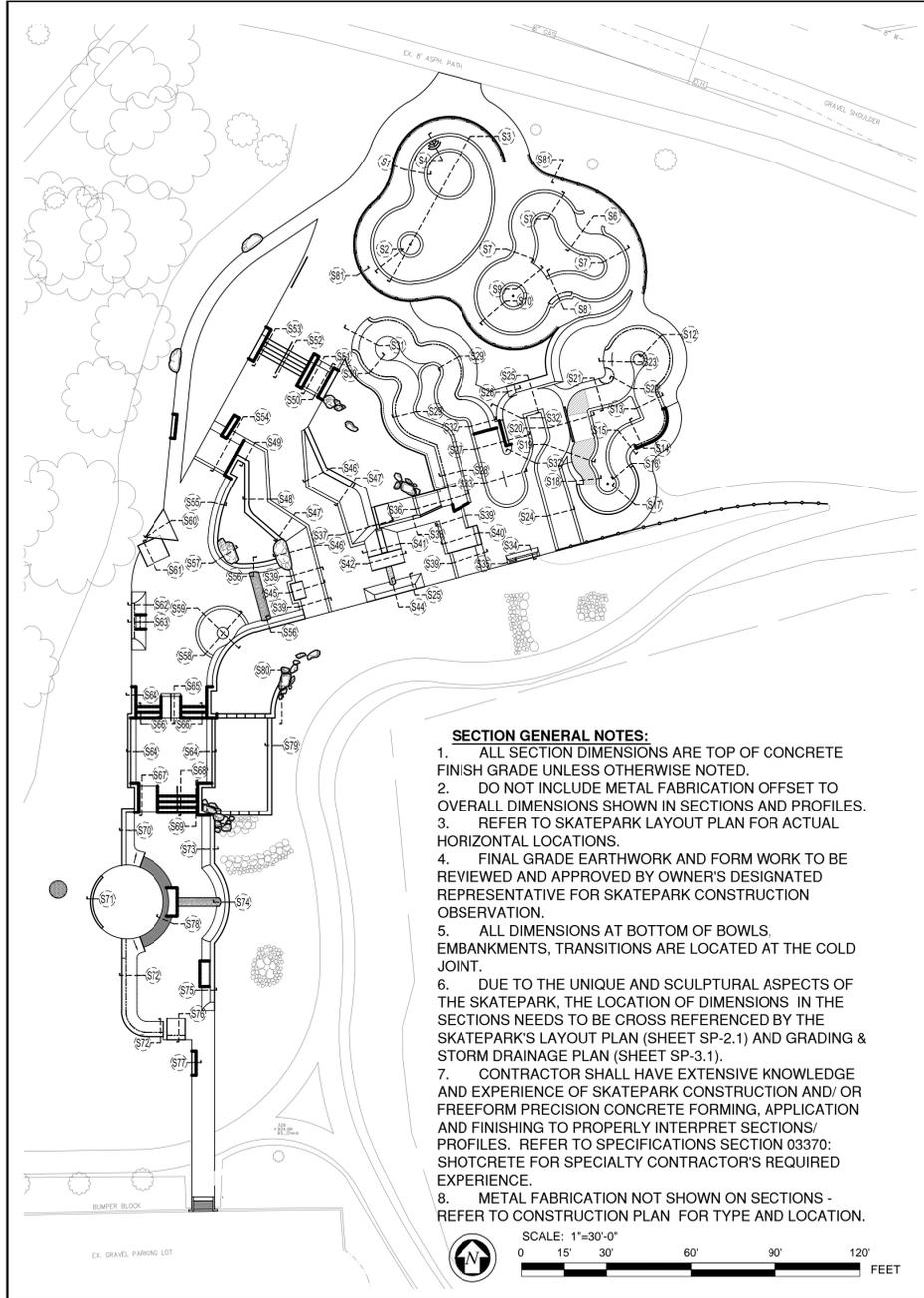
SHEET TITLE: CONSTRUCTION SECTIONS

SUBMITTAL: BID SET

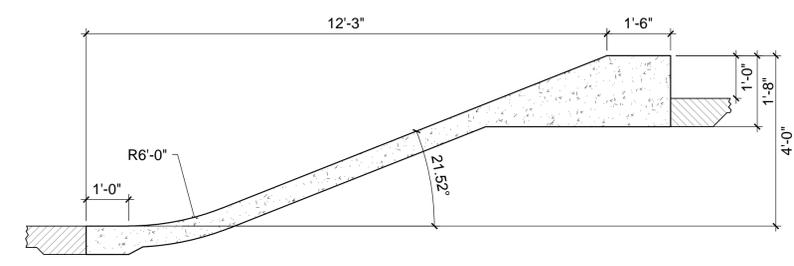
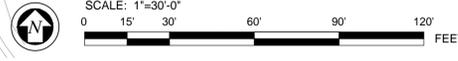


JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: LC-304
19 OF 23 SHEETS

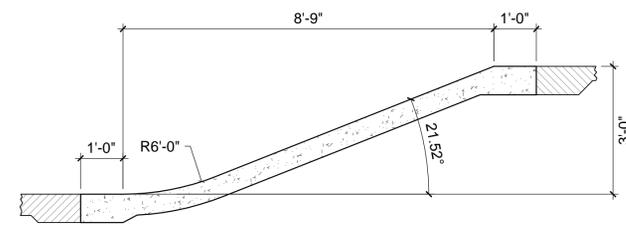
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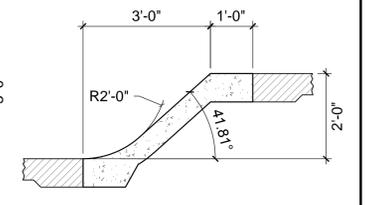
- SECTION GENERAL NOTES:**
1. ALL SECTION DIMENSIONS ARE TOP OF CONCRETE FINISH GRADE UNLESS OTHERWISE NOTED.
 2. DO NOT INCLUDE METAL FABRICATION OFFSET TO OVERALL DIMENSIONS SHOWN IN SECTIONS AND PROFILES.
 3. REFER TO SKATEPARK LAYOUT PLAN FOR ACTUAL HORIZONTAL LOCATIONS.
 4. FINAL GRADE EARTHWORK AND FORM WORK TO BE REVIEWED AND APPROVED BY OWNER'S DESIGNATED REPRESENTATIVE FOR SKATEPARK CONSTRUCTION OBSERVATION.
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 8. METAL FABRICATION NOT SHOWN ON SECTIONS - REFER TO CONSTRUCTION PLAN FOR TYPE AND LOCATION.



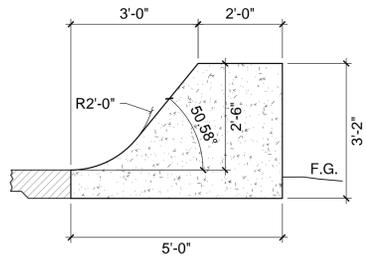
S40 SECTION
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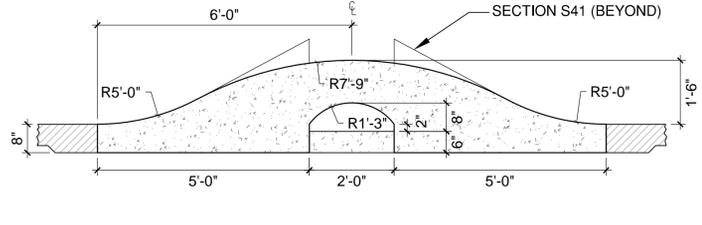
S39 SECTION
1/2"=1'-0"



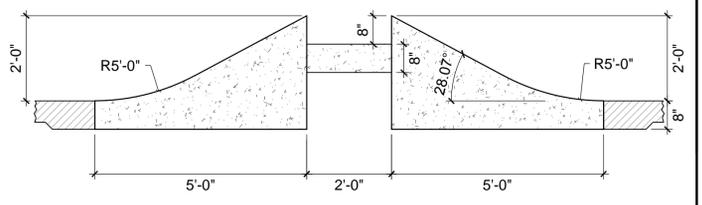
S38 SECTION
1/2"=1'-0"



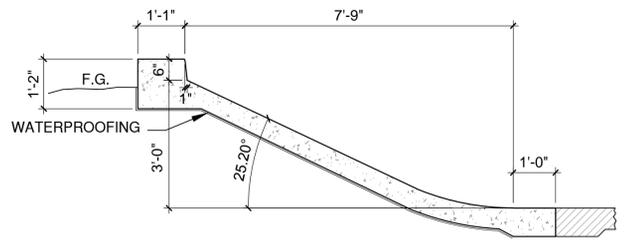
S43 SECTION
1/2"=1'-0"



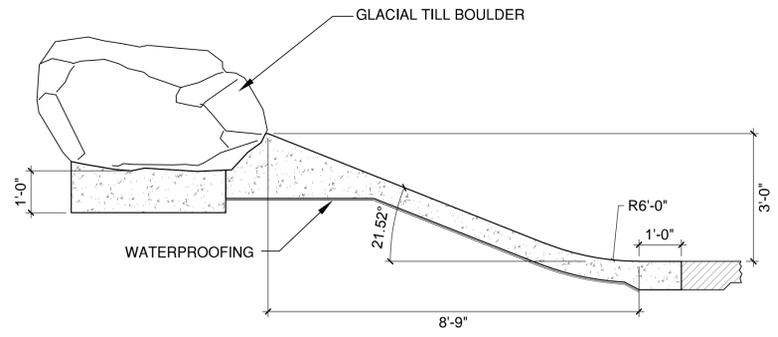
S42 SECTION
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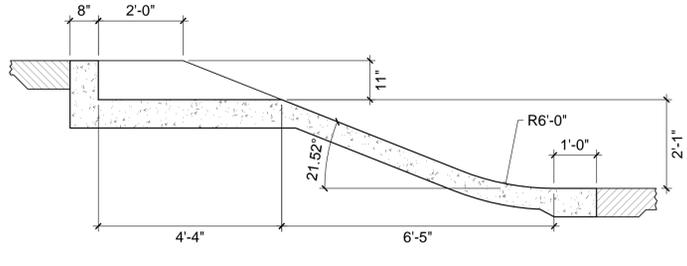
S41 SECTION
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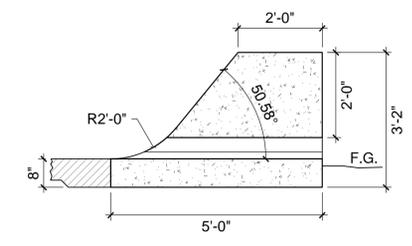
S47 SECTION
1/2"=1'-0"



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



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



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

REVISIONS	BY

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2150 JACKSON AVE., ANN ARBOR, MI

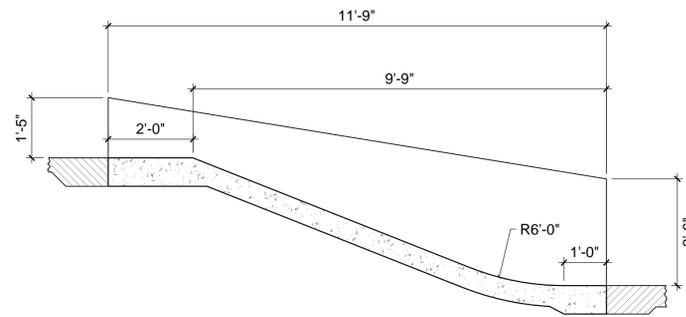
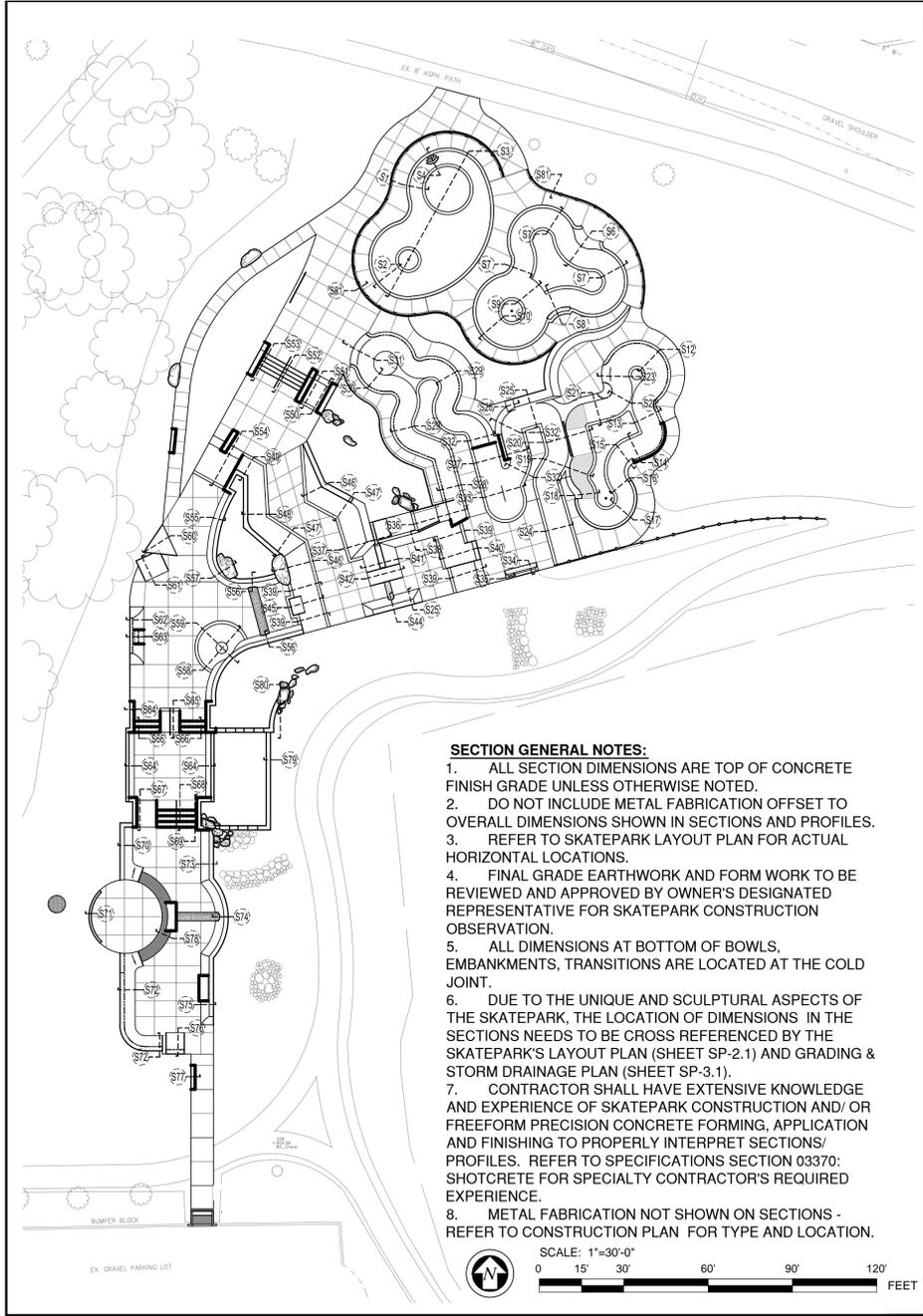
SHEET TITLE: CONSTRUCTION SECTIONS
SUBMITTAL: BID SET



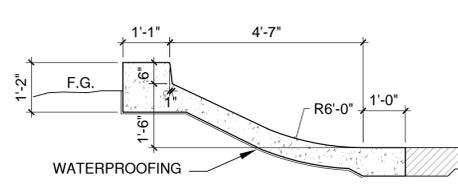
CLAR CERTIFIED
LANDSCAPE ARCHITECT

JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: **LC-305**
20 OF 23 SHEETS

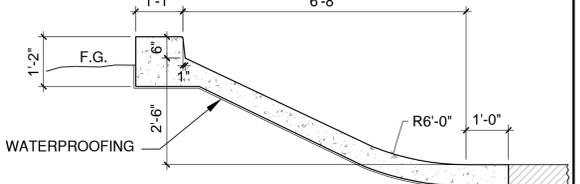
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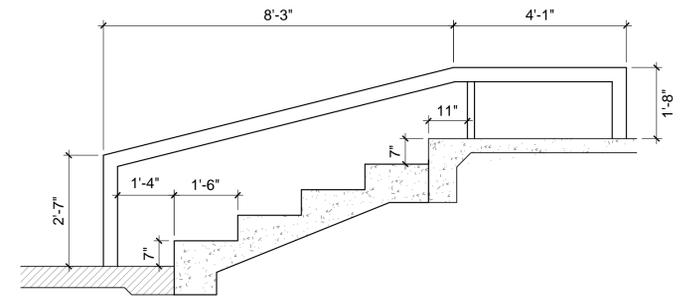
S50 SECTION
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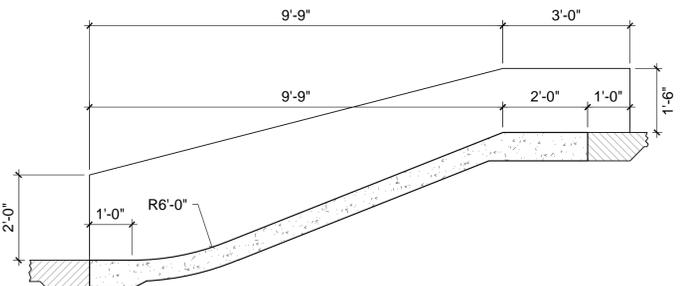
S49 SECTION
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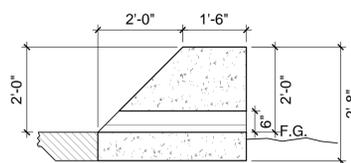
S48 SECTION
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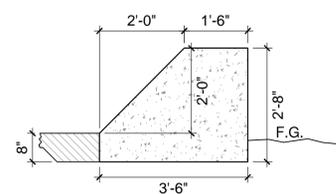
S52 SECTION
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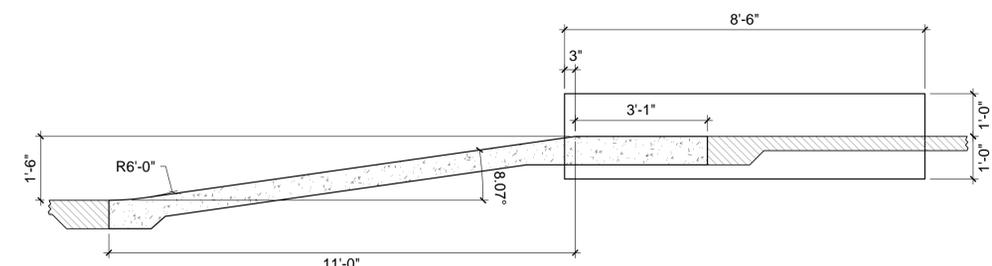
S51 SECTION
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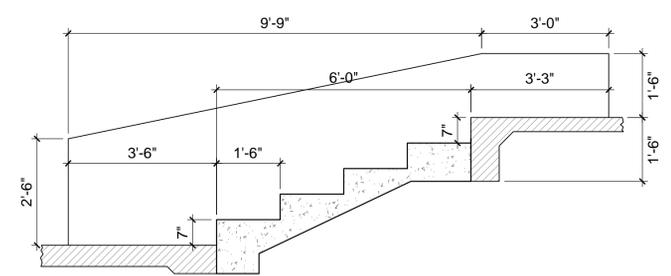
S56 SECTION
1/2"=1'-0"



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



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



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

REVISIONS	BY

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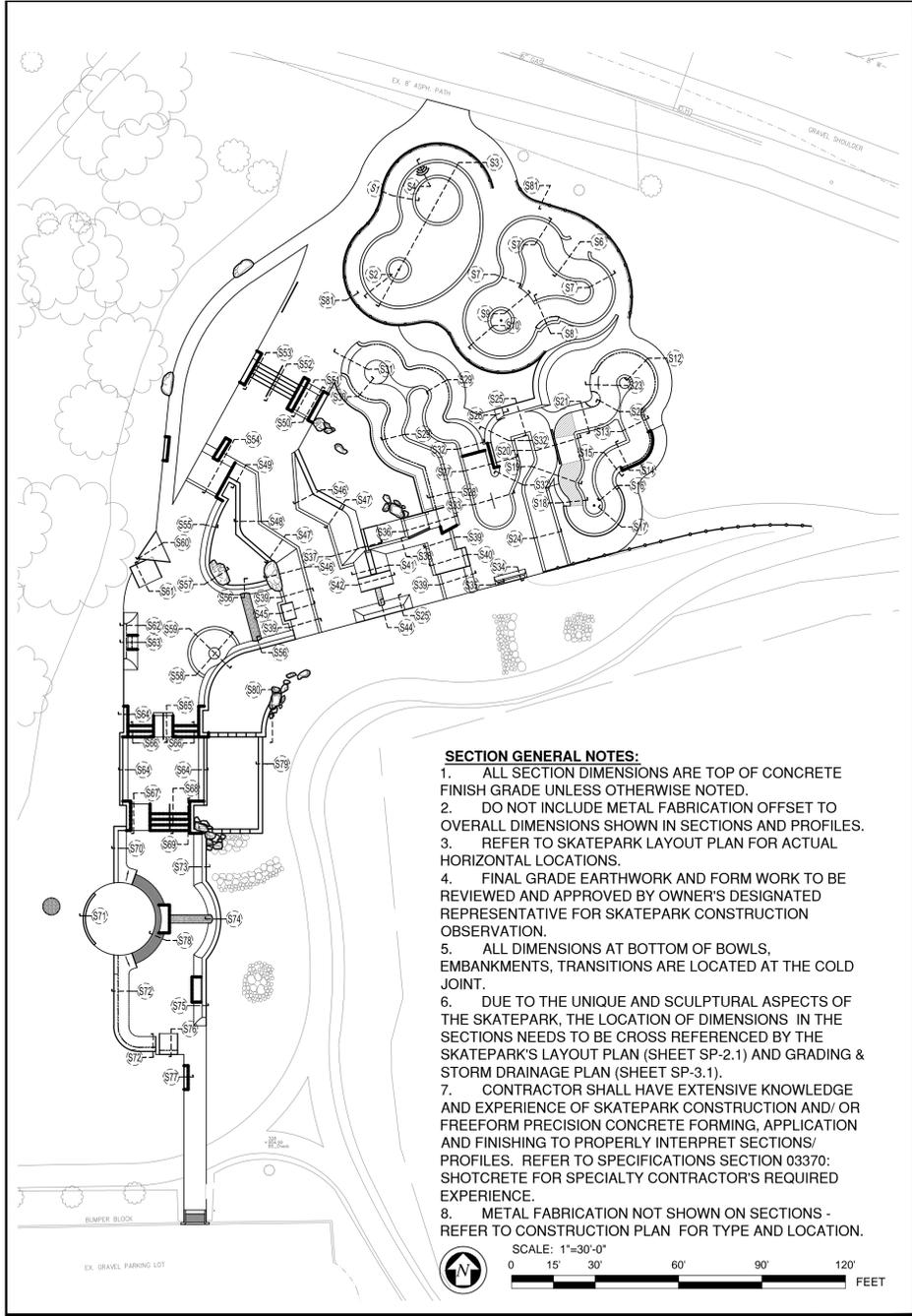
PROJECT: **ANN ARBOR SKATEPARK**
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION SECTIONS
SUBMITTAL: BID SET



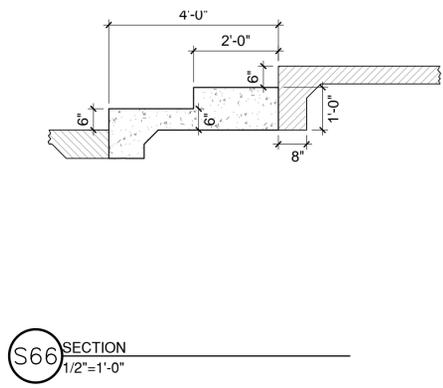
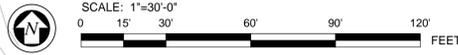
CLARB CERTIFIED
LANDSCAPE ARCHITECT

JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: **LC-306**
21 OF 23 SHEETS

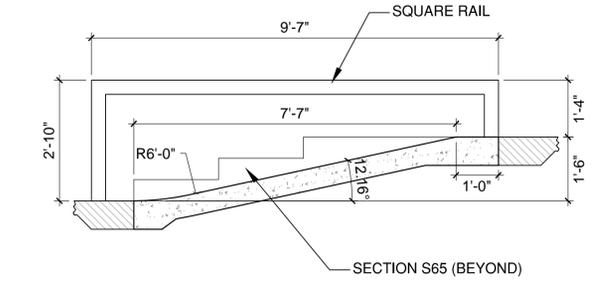


SECTION GENERAL NOTES:

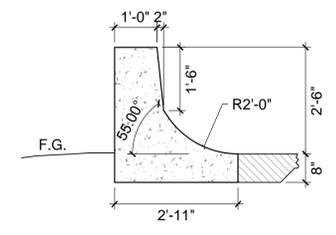
1. ALL SECTION DIMENSIONS ARE TOP OF CONCRETE FINISH GRADE UNLESS OTHERWISE NOTED.
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8. METAL FABRICATION NOT SHOWN ON SECTIONS - REFER TO CONSTRUCTION PLAN FOR TYPE AND LOCATION.



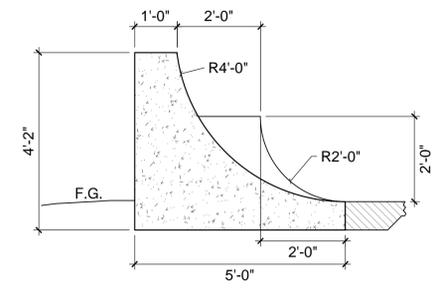
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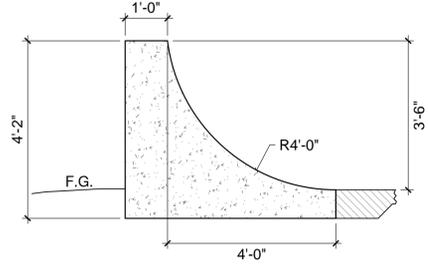
S65 SECTION
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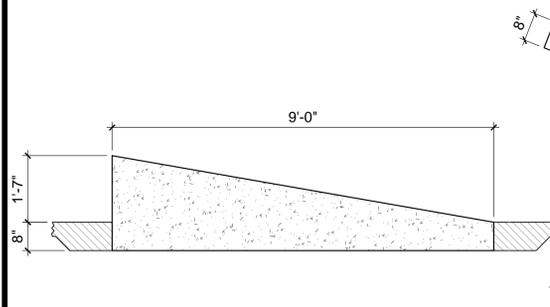
S64 SECTION
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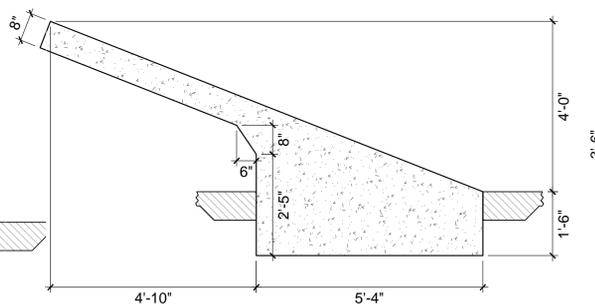
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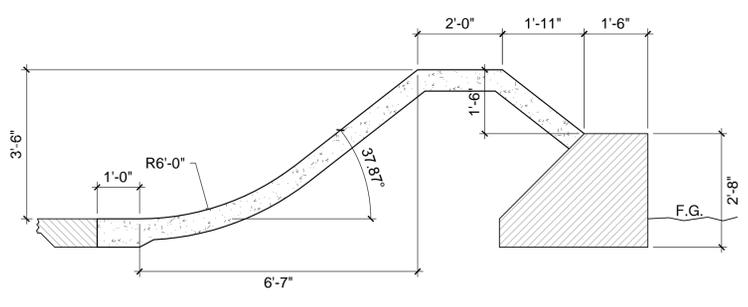
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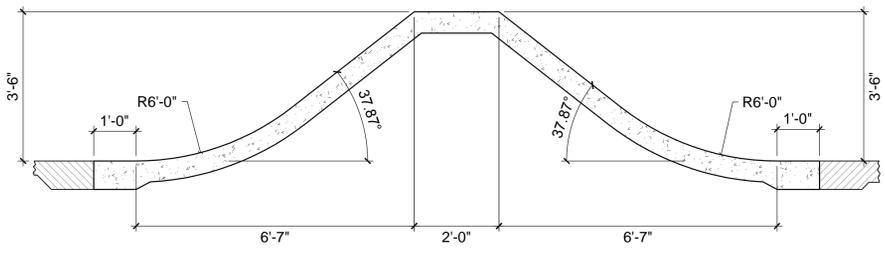
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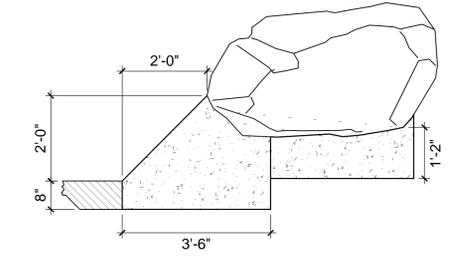
S60 SECTION
1/2"=1'-0"



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



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



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

REVISIONS	BY

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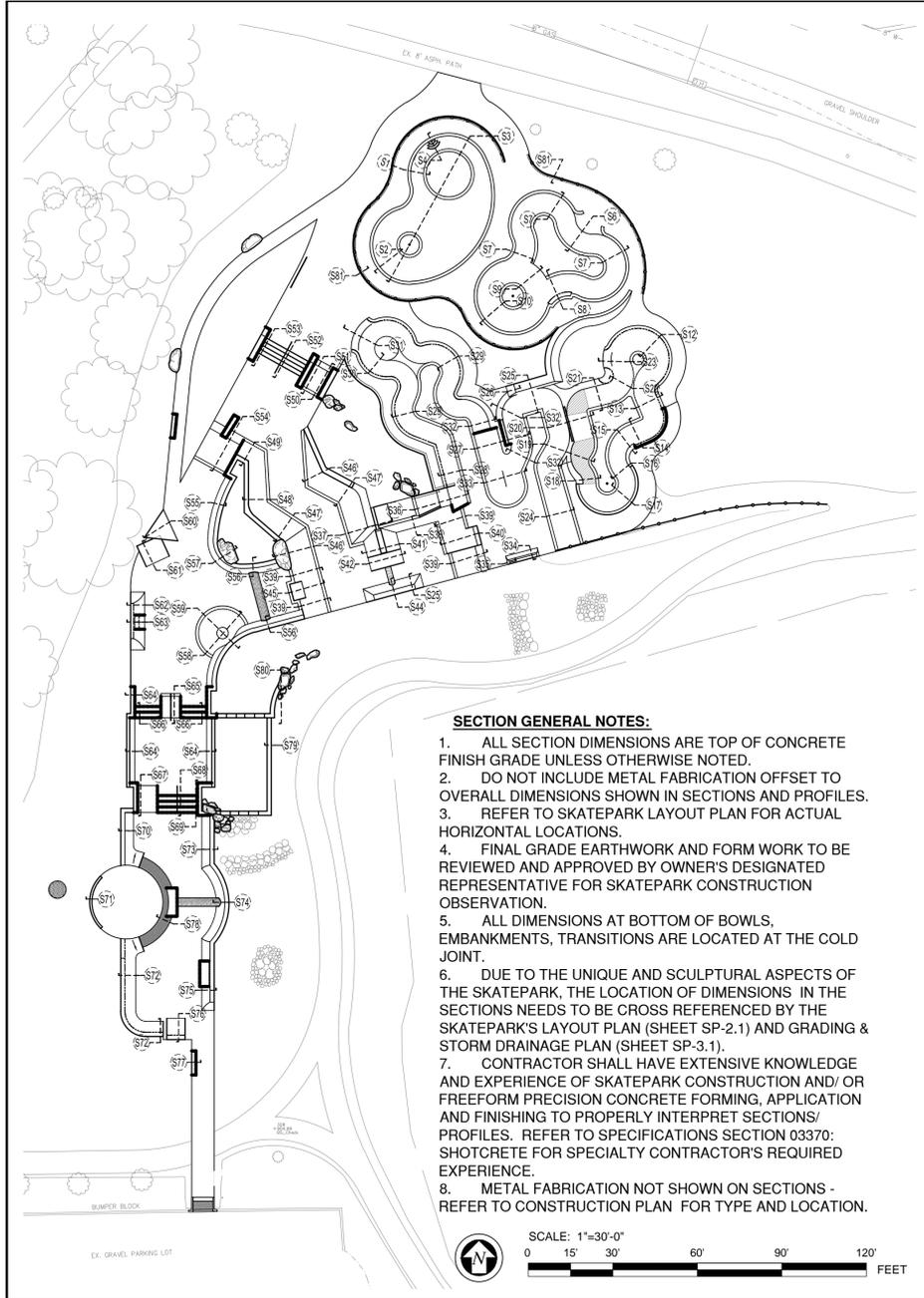
PROJECT: **ANN ARBOR SKATEPARK**
CITY OF ANN ARBOR, MICHIGAN
VETERANS MEMORIAL PARK
2150 JACKSON AVE., ANN ARBOR, MI

SHEET TITLE: CONSTRUCTION SECTIONS
SUBMITTAL: BID SET



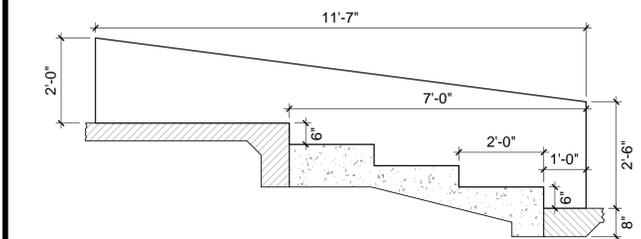
CLARB CERTIFIED
LANDSCAPE ARCHITECT

JOB NO. CSD1150-12
DATE: 03-29-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: **LC-307**
22 OF 23 SHEETS

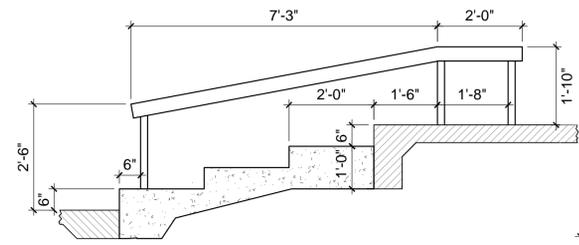


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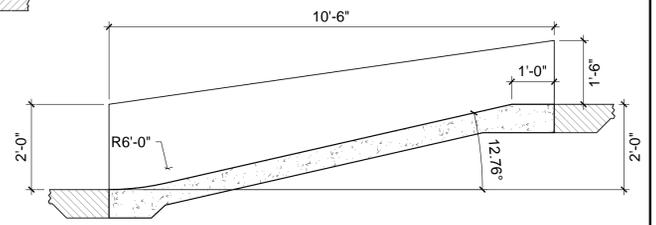
1. ALL SECTION DIMENSIONS ARE TOP OF CONCRETE FINISH GRADE UNLESS OTHERWISE NOTED.
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8. METAL FABRICATION NOT SHOWN ON SECTIONS - REFER TO CONSTRUCTION PLAN FOR TYPE AND LOCATION.



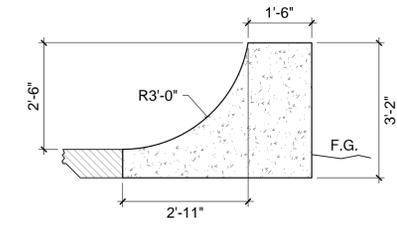
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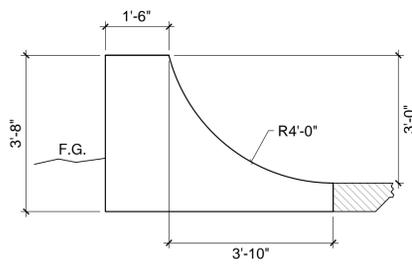
S68 SECTION
1/2"=1'-0"



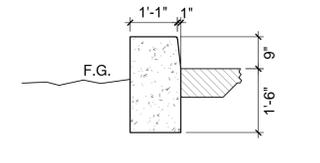
S67 SECTION
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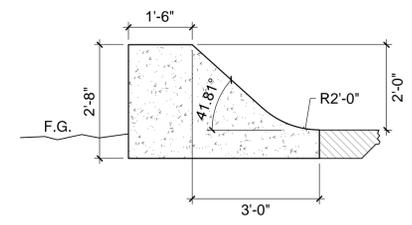
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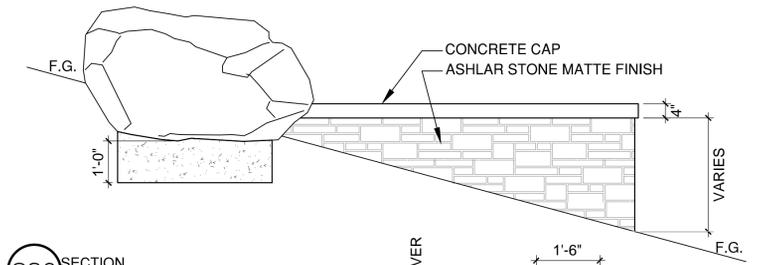
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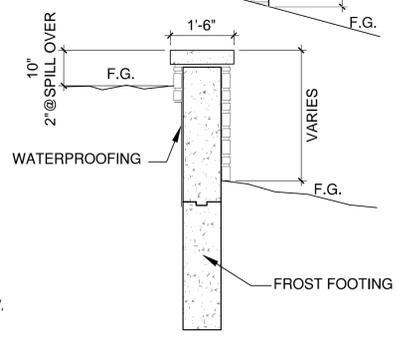
S71 SECTION
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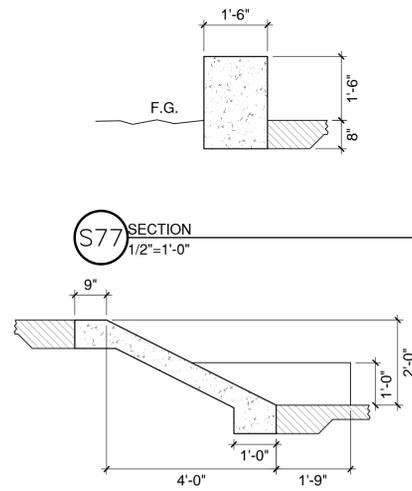
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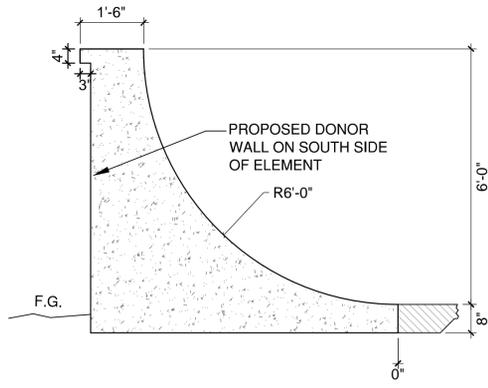
S80 SECTION
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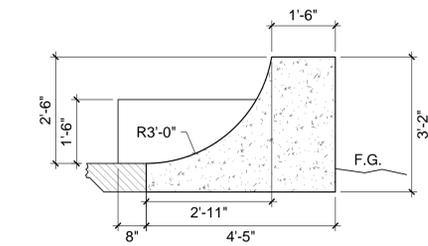
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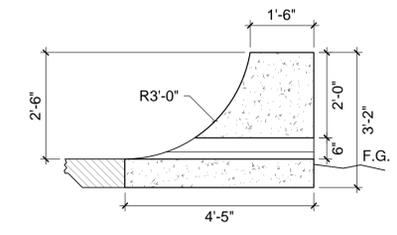
S77 SECTION
1/2"=1'-0"



S76 SECTION
1/2"=1'-0"



S75 SECTION
1/2"=1'-0"



S74 SECTION
1/2"=1'-0"

S80 SECTION
1/2"=1'-0"

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734.769.1111

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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: 03-29-2013
SCALE: PER PLAN
DRAWN: CHS
SHEET: LC-308
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