

## LOCATION MAP

N.T.S.

## PROJECT TEAM

## OWNER'S REPRESENTATIVE

CRAIG SHELDON - PUBLIC WORKS DIRECTOR  
CITY OF SHERWOOD  
15527 SW WILLAMETTE STREET  
SHERWOOD, OR 97140  
(503) 925-2310  
(503) 625-0679 FAX

## LANDSCAPE ARCHITECT

TROY MEARS, RLA  
MEARS DESIGN GROUP, LLC  
PO BOX 23338  
PORTLAND, OR 97281  
(503) 601-4516  
(503) 924-4688 FAX

## SKATE PARK DESIGNER

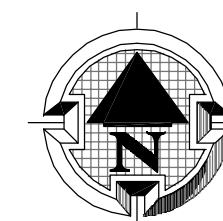
MARK SCOTT  
DREAMLAND SKATEPARKS, LLC  
2150 SE HWY 101, PMB 384  
LINCOLN CITY, OR 97367-2622  
(503) 577-9277



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

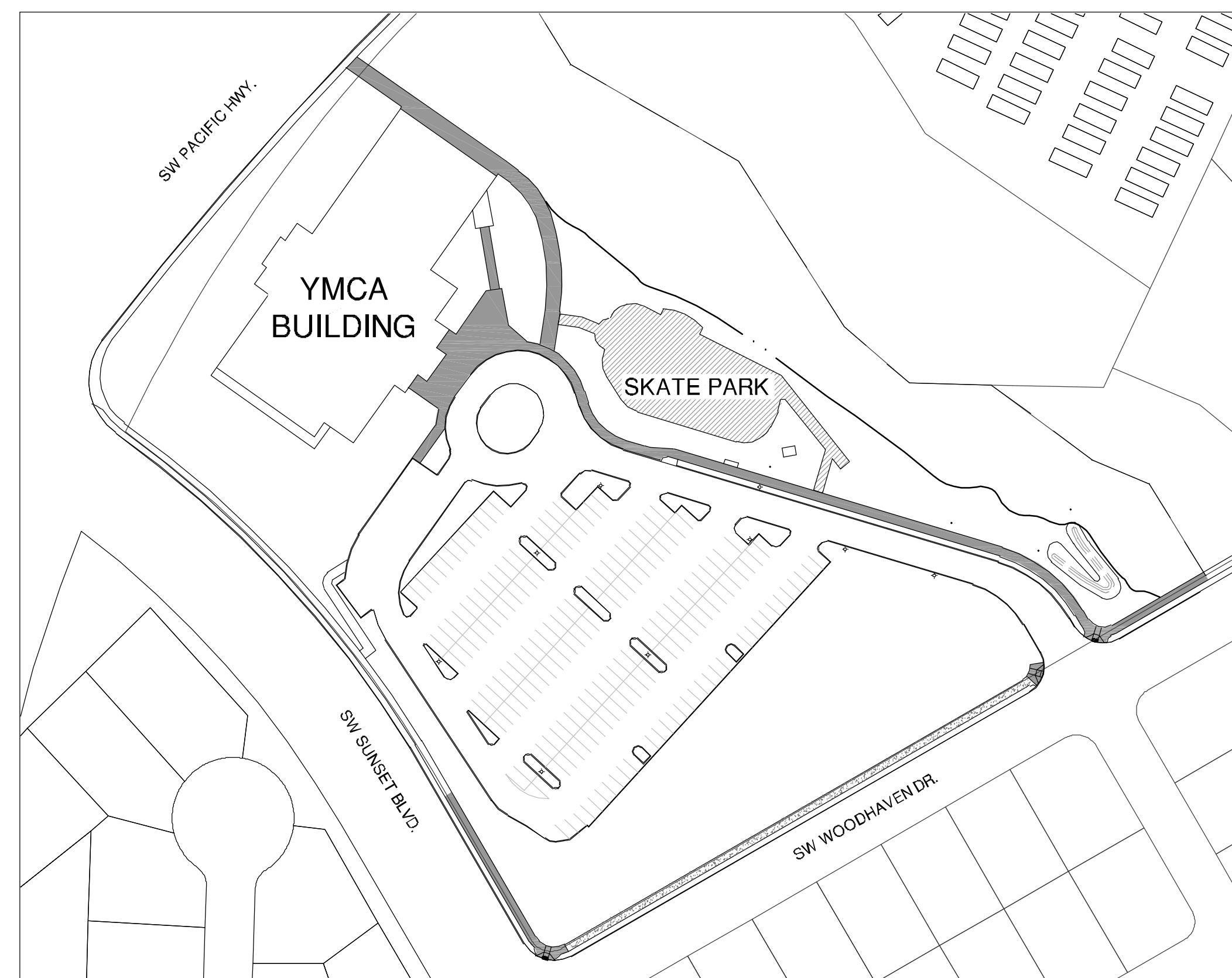
## GENERAL NOTES

1. ALL CONSTRUCTION SHALL ADHERE TO DRAWINGS AND SPECIFICATIONS.
2. VERIFY ALL SITE CONDITIONS BY SITE VISIT PRIOR TO BID SUBMITTAL.
3. BLEND CUT AND FILL SLOPES TO CONFORM TO THE ADJACENT NATURAL GROUND.
4. DO NOT OBTAIN DIMENSIONS BY SCALING DRAWINGS. USE WRITTEN DIMENSIONS AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.
5. STAGING AREAS ARE TO BE DETERMINED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
6. ALL CONSTRUCTION IS REQUIRED TO BE COMPLETED BETWEEN THE HOURS OF 7:00 AM THRU 5:00 PM; MONDAY THRU FRIDAY. COORDINATE TIME OF CONSTRUCTION WITH OWNER'S REPRESENTATIVE.
7. REFER TO PROJECT TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. ADVISE THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS OR DISCREPANCIES 5 (FIVE) WORKING DAYS PRIOR TO STARTING WORK.
9. VERIFY LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK FOR LOCATIONS CONTACT CITY OF SHERWOOD PUBLIC WORKS DEPARTMENT, (503) 925-2310 AND THE UTILITIES NOTIFICATION CENTER (811) NOT LESS THAN 72 HOURS PRIOR TO BEGINNING WORK.
10. ALTERNATE NO. 1: SIDEWALK, CURB RAMPS, STREET TREES, LAWN AND IRRIGATION ALONG SW WOODHAVEN DRIVE. APPROXIMATE SIDEWALK/RAMP AREA: 3,760 SF
11. APPROXIMATE SKATEPARK SKATEABLE SURFACE AREA: 13,470 SF
12. SPECIALTY SKATEPARK CONTRACTOR IS REQUIRED TO MEET MANDATORY QUALIFICATIONS AS LISTED IN TECHNICAL SPECIFICATION SECTION 01 0000 - GENERAL REQUIREMENTS (PART 1, 1.2).



## AREA OF WORK MAP

N.T.S.



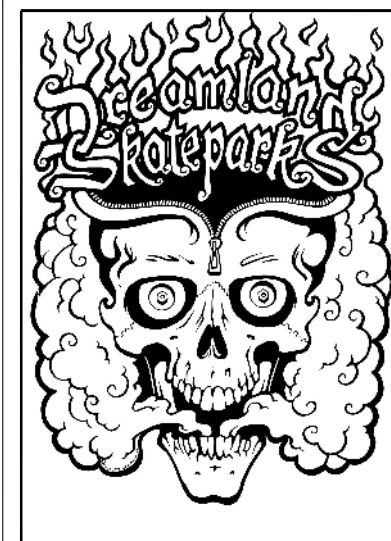
## DRAWING INDEX

<u>SHEET TITLE</u>	<u>SHEET NUMBER</u>
COVER SHEET	SP0
EXISTING CONDITION / EROSION CONTROL PLAN	SP1
EROSION CONTROL DETAILS & NOTES	SP2
LAYOUT PLAN	SP3
GRADING PLAN	SP4
DRAINAGE PLAN	SP5
DRAINAGE PLAN	SP6
DRAINAGE DETAILS & NOTES	SP7
SKATEPARK REFERENCE PLAN	SP8
SKATEPARK REFERENCE PLAN	SP9
SKATEPARK REFERENCE PLAN (SKATEPARK BLOW-UP)	SP10
SKATEPARK DETAILS & NOTES	SP11
SKATEPARK DETAILS & NOTES	SP12
SKATEPARK DETAILS & NOTES	SP13
SKATEPARK DETAILS & NOTES	SP14
SKATEPARK DETAILS & NOTES	SP15
SKATEPARK PLANTING PLAN	SP16
SKATEPARK PLANTING PLAN	SP17
SKATEPARK PLANTING DETAILS & NOTES	SP18
SKATEPARK IRRIGATION PLAN	SP19
SKATEPARK IRRIGATION PLAN	SP20
SKATEPARK IRRIGATION DETAILS & NOTES	SP21

**MEARS**  
DESIGN★PLANNING

LANDSCAPE ARCHITECTURE & PLANNING

P.O. Box 23338 | Portland, Oregon | 97201  
PHONE: 503.601.4516 | FAX: 503.924.4698



**SHERWOOD SKATEPARK**  
CITY OF SHERWOOD

POURED-IN-PLACE CONCRETE  
20300 SW PACIFIC HWY., SHERWOOD, OREGON

[illegible]

SHEET NAME:  
SKATEPARK  
COVER SHEET

DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/16/2018
JOB NO.:	1707

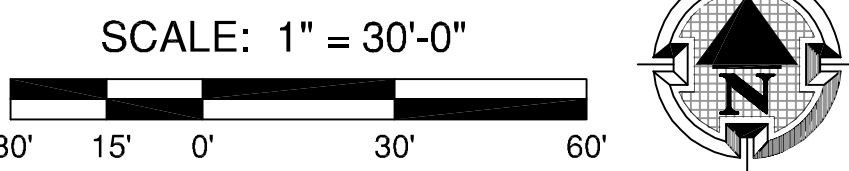
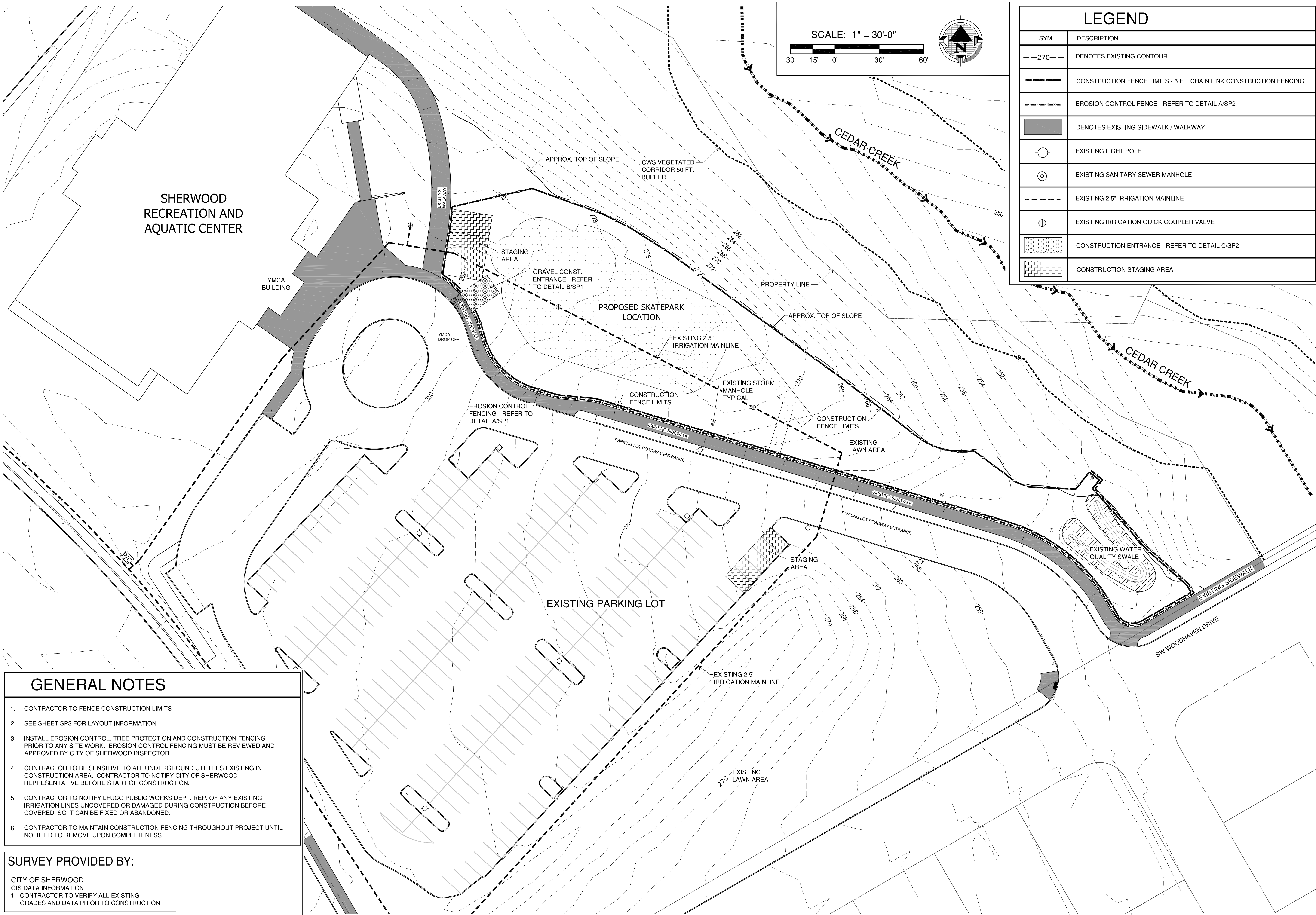
SHEET:

SP0

OF 22

100% CD SET





LEGEND	
SYM	DESCRIPTION
	DENOTES EXISTING CONTOUR
	CONSTRUCTION FENCE LIMITS - 6 FT. CHAIN LINK CONSTRUCTION FENCING.
	EROSION CONTROL FENCE - REFER TO DETAIL A/SP2
	DENOTES EXISTING SIDEWALK / WALKWAY
	EXISTING LIGHT POLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING 2.5" IRRIGATION MAINLINE
	EXISTING IRRIGATION QUICK COUPLER VALVE
	CONSTRUCTION ENTRANCE - REFER TO DETAIL C/SP2
	CONSTRUCTION STAGING AREA

**MEARS**  
 DESIGN+GROUP  
 LANDSCAPE ARCHITECTURE & PLANNING  
 PO BOX 23338 | PORTLAND, OREGON | 97281  
 PHONE: 503.601.4516 | FAX: 503.924.4688



REGISTERED  
 540  
*Troy A. Mears*  
 TROY A. MEARS  
 OREGON  
 11/21/2003  
 LANDSCAPE ARCHITECT

**SHERWOOD SKATEPARK**  
 CITY OF SHERWOOD  
 POURED-IN-PLACE CONCRETE  
 20300 SW PACIFIC HWY., SHERWOOD, OREGON

- ### GENERAL NOTES
1. CONTRACTOR TO FENCE CONSTRUCTION LIMITS
  2. SEE SHEET SP3 FOR LAYOUT INFORMATION
  3. INSTALL EROSION CONTROL, TREE PROTECTION AND CONSTRUCTION FENCING PRIOR TO ANY SITE WORK. EROSION CONTROL FENCING MUST BE REVIEWED AND APPROVED BY CITY OF SHERWOOD INSPECTOR.
  4. CONTRACTOR TO BE SENSITIVE TO ALL UNDERGROUND UTILITIES EXISTING IN CONSTRUCTION AREA. CONTRACTOR TO NOTIFY CITY OF SHERWOOD REPRESENTATIVE BEFORE START OF CONSTRUCTION.
  5. CONTRACTOR TO NOTIFY LFUGG PUBLIC WORKS DEPT. REP. OF ANY EXISTING IRRIGATION LINES UNCOVERED OR DAMAGED DURING CONSTRUCTION BEFORE COVERED SO IT CAN BE FIXED OR ABANDONED.
  6. CONTRACTOR TO MAINTAIN CONSTRUCTION FENCING THROUGHOUT PROJECT UNTIL NOTIFIED TO REMOVE UPON COMPLETENESS.

**SURVEY PROVIDED BY:**

CITY OF SHERWOOD  
 GIS DATA INFORMATION  
 1. CONTRACTOR TO VERIFY ALL EXISTING GRADES AND DATA PRIOR TO CONSTRUCTION.

REVISIONS		
REV.	DATE	DESCRIPTION

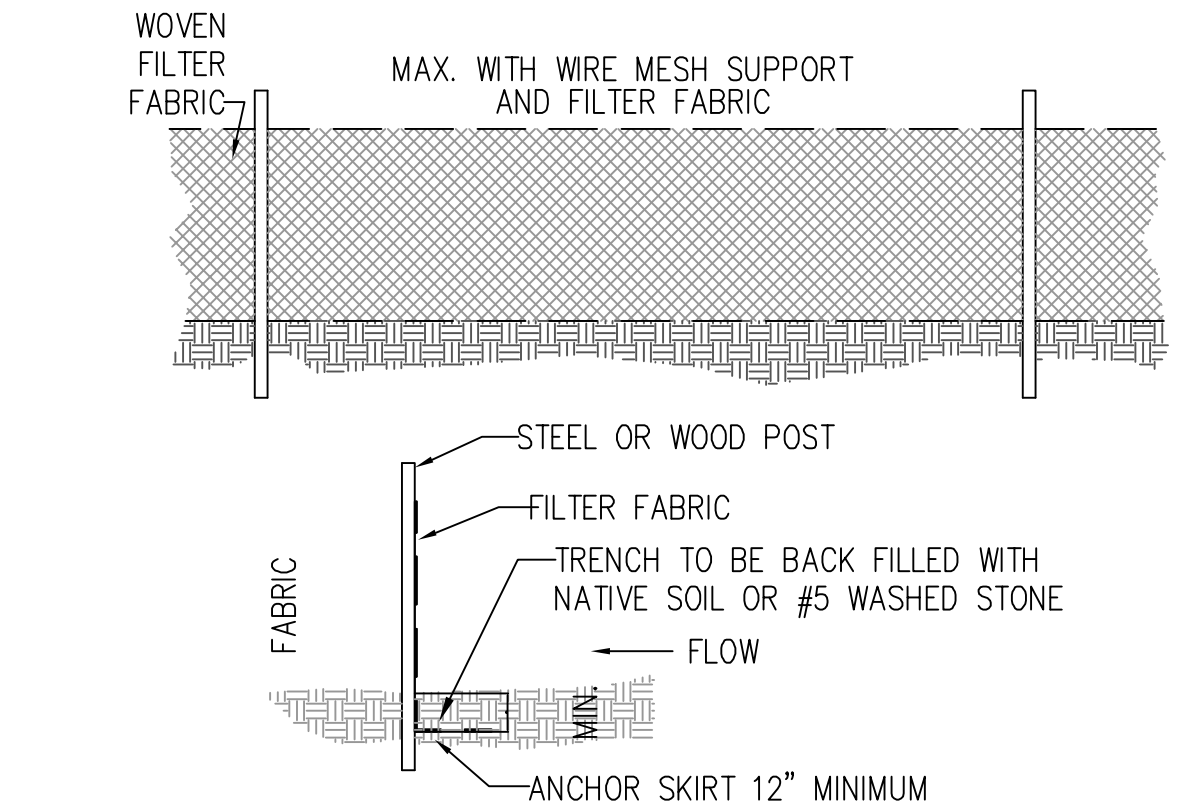
SHEET NAME: SKATEPARK  
 EX. CONDITION / EROSION CONTROL

DRAWN BY: TAM  
 CHECKED BY: TAM  
 ISSUE DATE: 11/18/2018  
 JOB NO.: 1707

SHEET:

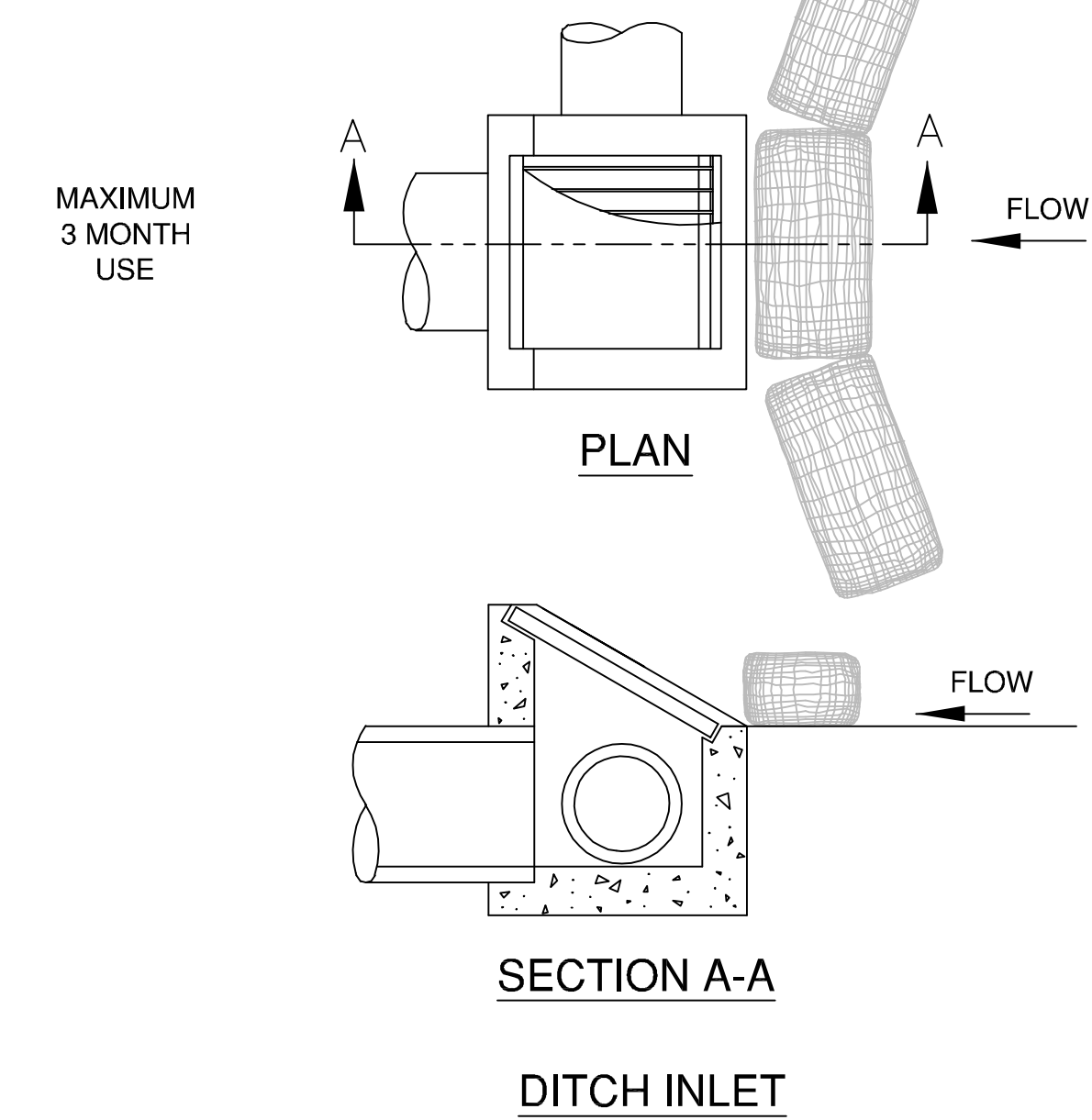
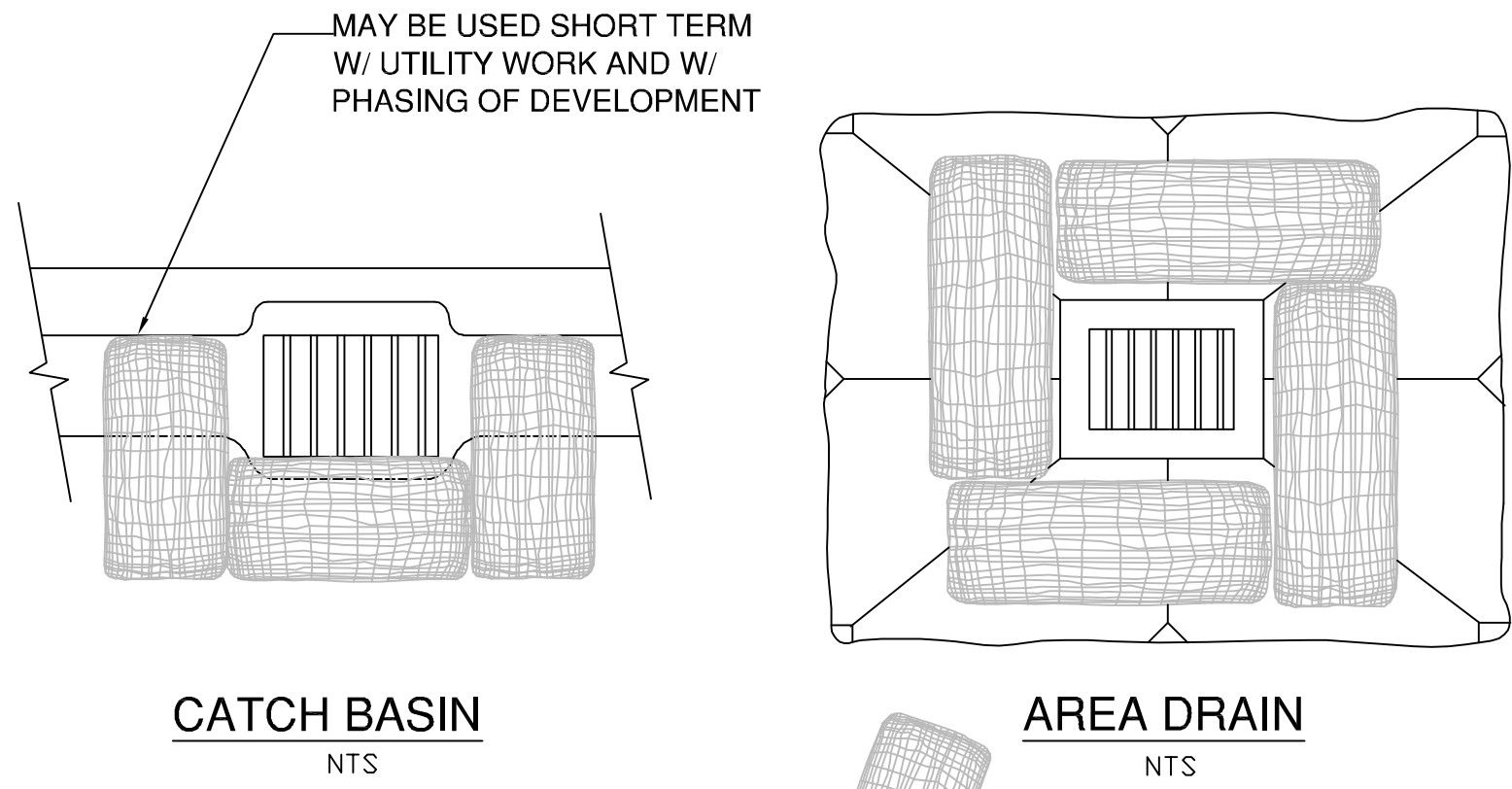
**SP1**

OF 22  
 100% CD SET



**A**  
**SP2** TEMPORARY SILT FENCE DETAIL N.T.S.

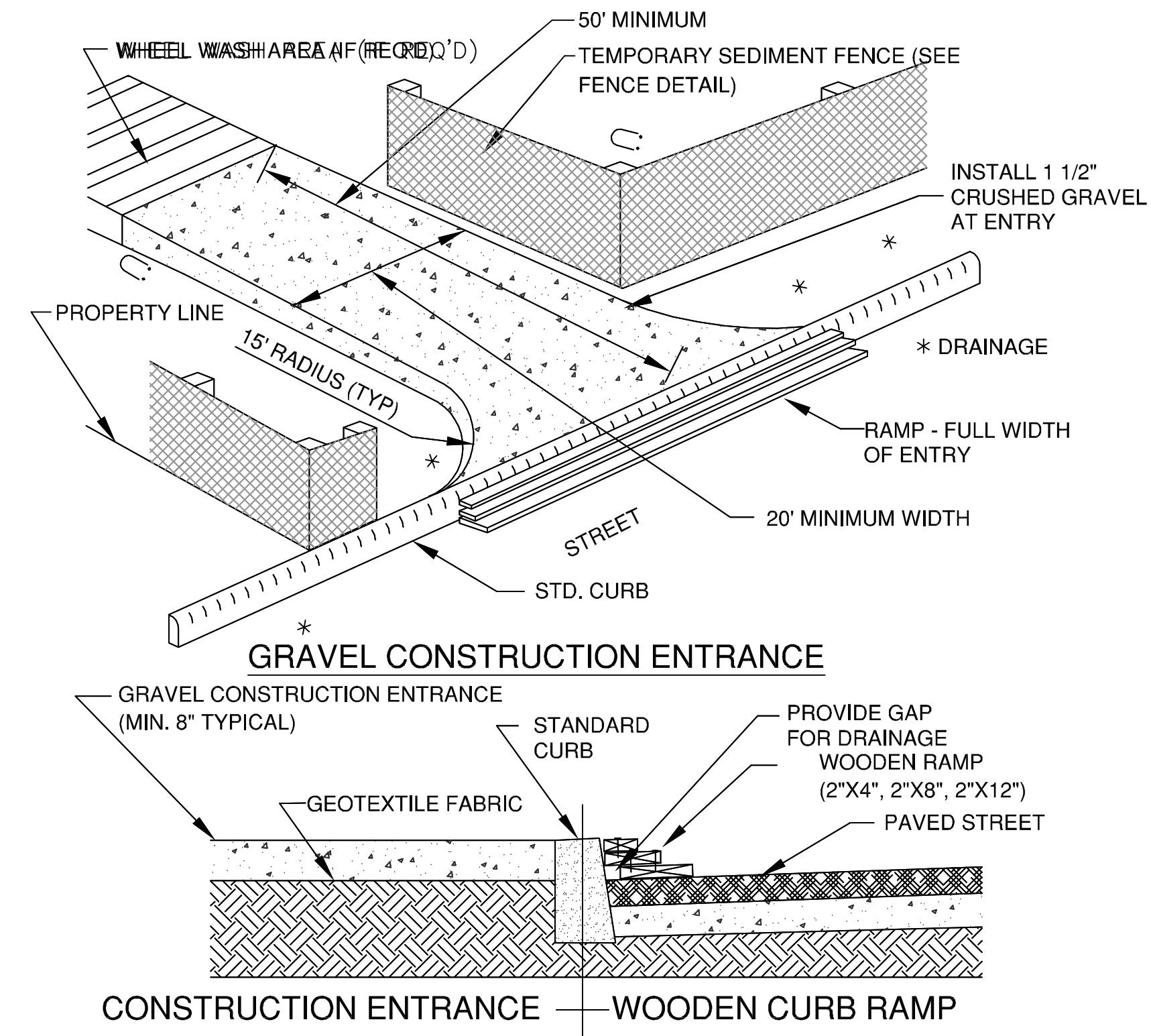
- GENERAL NOTES:
1. FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER. WHEN JOINTS CANNOT BE AVOIDED, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT A POST WITH 3 FOOT MIN. OVERLAP, AND SECURELY SEALED.
  2. POSTS SHALL BE SPACED AT 6 FOOT INTERVALS IN AREAS OF RAPID RUNOFF.
  3. POSTS SHALL BE AT LEAST 5 FEET IN LENGTH.
  4. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE AND FABRIC.
  5. WOOD POSTS SHALL BE 2 INCHES BY 2 INCHES OR EQUIVALENT. STEEL POSTS SHALL BE 1.33 LBS. PER LINEAR FOOT.
  6. A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH IN LENGTH, WIRE TIES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE GROUND SURFACE.
  7. WASHED STONE SHALL BE USED TO BURY SKIRT WHEN SILT FENCE IS USED ADJACENT TO A CHANNEL, CREEK, OR POND.
  8. TURN SILT FENCE UP SLOPE AT ENDS.



**B**  
**SP2** BIO-FILTER BAGS FOR TEMPORARY INLET PROTECTION N.T.S.

**EROSION CONTROL NOTES:**

- A. Approval of this erosion, sediment and pollution control plan (ESPCP) does not constitute an approval of permanent road or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.)
- B. The implementation of this ESPCP and the construction, maintenance, replacement, and upgrading of these ESPCP facilities is the responsibility of the contractor until all construction is completed and approved and vegetation/landscaping is established.
- C. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the contractor for the duration of construction.
- D. The ESPCP facilities shown on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to insure that sediment and sediment laden water do not enter the drainage system, roadways, or violate applicable water standards.
- E. The ESPCP facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESPCP facilities shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment-laden water do not leave the site.
- F. The ESPCP facilities shall be inspected daily by the contractor and maintained as necessary to ensure their continued functioning.
- G. The ESPCP facilities on inactive sites shall be inspected and maintained a minimum of once a month or within the 24 hours following a storm event.
- H. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures may be required to insure that all paved areas are kept clean for the duration of the project.



**C**  
**SP2** GRAVEL CONSTRUCTION ENTRANCE N.T.S.

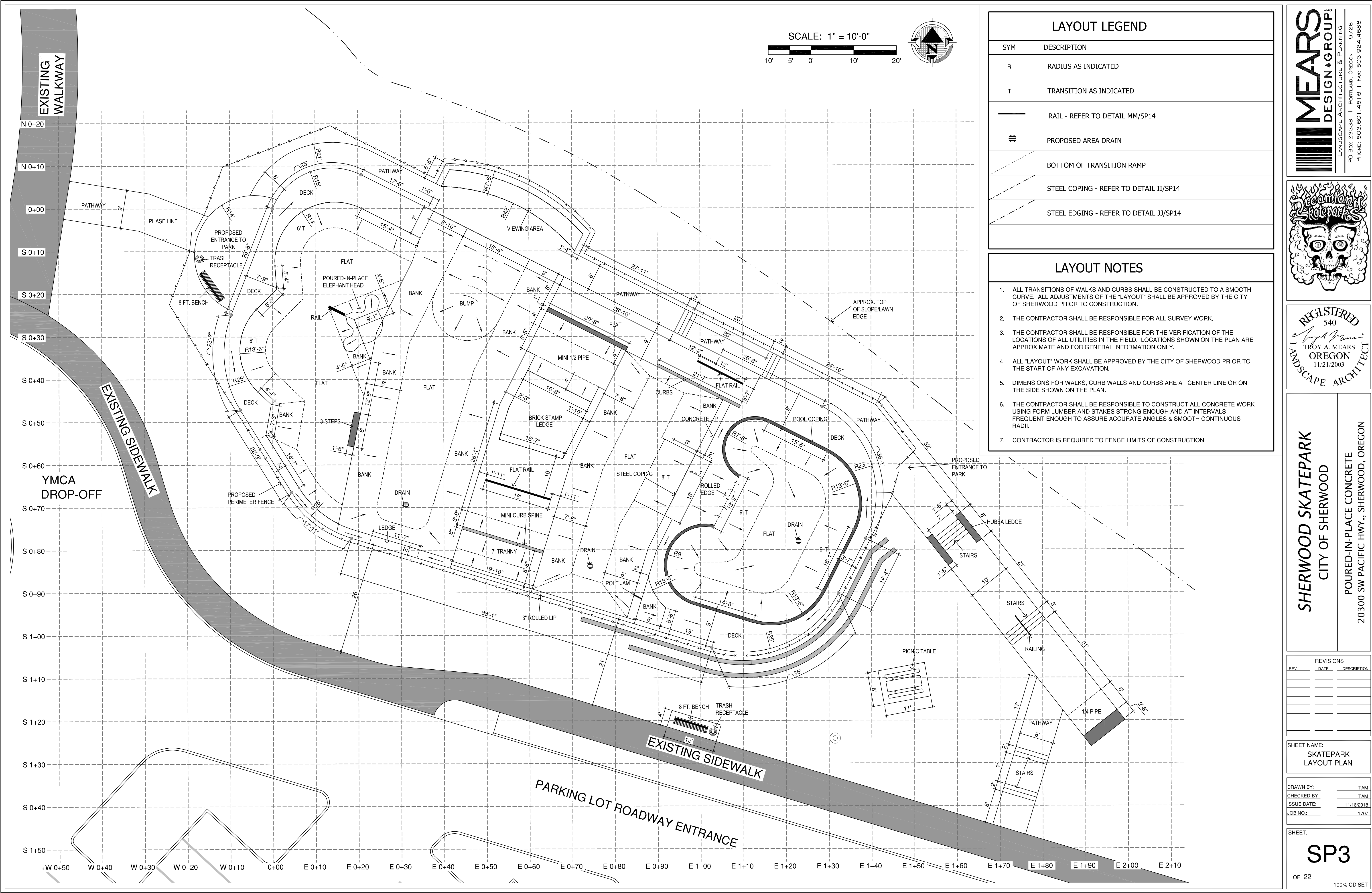


REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
**SKATEPARK  
ESPCP  
DETAILS & NOTES**

DRAWN BY: TAM  
CHECKED BY: TAM  
ISSUE DATE: 11/18/2018  
JOB NO.: 1707





LAYOUT LEGEND	
SYM	DESCRIPTION
R	RADIUS AS INDICATED
T	TRANSITION AS INDICATED
—	RAIL - REFER TO DETAIL MM/SP14
⊖	PROPOSED AREA DRAIN
—	BOTTOM OF TRANSITION RAMP
—	STEEL COPING - REFER TO DETAIL II/SP14
—	STEEL EDGING - REFER TO DETAIL JJ/SP14

- LAYOUT NOTES
1.

ALL TRANSITIONS OF WALKS AND CURBS SHALL BE CONSTRUCTED TO A SMOOTH CURVE. ALL ADJUSTMENTS OF THE "LAYOUT" SHALL BE APPROVED BY THE CITY OF SHERWOOD PRIOR TO CONSTRUCTION.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY WORK.
3.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATIONS OF ALL UTILITIES IN THE FIELD. LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
4.

ALL "LAYOUT" WORK SHALL BE APPROVED BY THE CITY OF SHERWOOD PRIOR TO THE START OF ANY EXCAVATION.
5.

DIMENSIONS FOR WALKS, CURB WALLS AND CURBS ARE AT CENTER LINE OR ON THE SIDE SHOWN ON THE PLAN.
6.

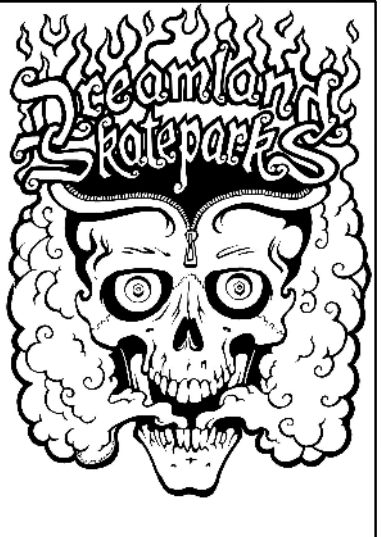
THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL CONCRETE WORK USING FORM LUMBER AND STAKES STRONG ENOUGH AND AT INTERVALS FREQUENT ENOUGH TO ASSURE ACCURATE ANGLES & SMOOTH CONTINUOUS RADII.
7.

CONTRACTOR IS REQUIRED TO FENCE LIMITS OF CONSTRUCTION.

MEARS

DESIGN+GROUP

LANDSCAPE ARCHITECTURE & PLANNING  
PO BOX 23338 | PORTLAND, OREGON | 97281  
PHONE: 503.601.4516 | FAX: 503.924.4688



REGISTERED  
540  
*Troy A. Mears*  
TROY A. MEARS  
OREGON  
11/21/2003  
LANDSCAPE ARCHITECT

SHERWOOD SKATEPARK  
CITY OF SHERWOOD  
POURED-IN-PLACE CONCRETE  
20300 SW PACIFIC HWY., SHERWOOD, OREGON

REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:

SKATEPARK  
LAYOUT PLAN

DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/18/2018
JOB NO.:	1707

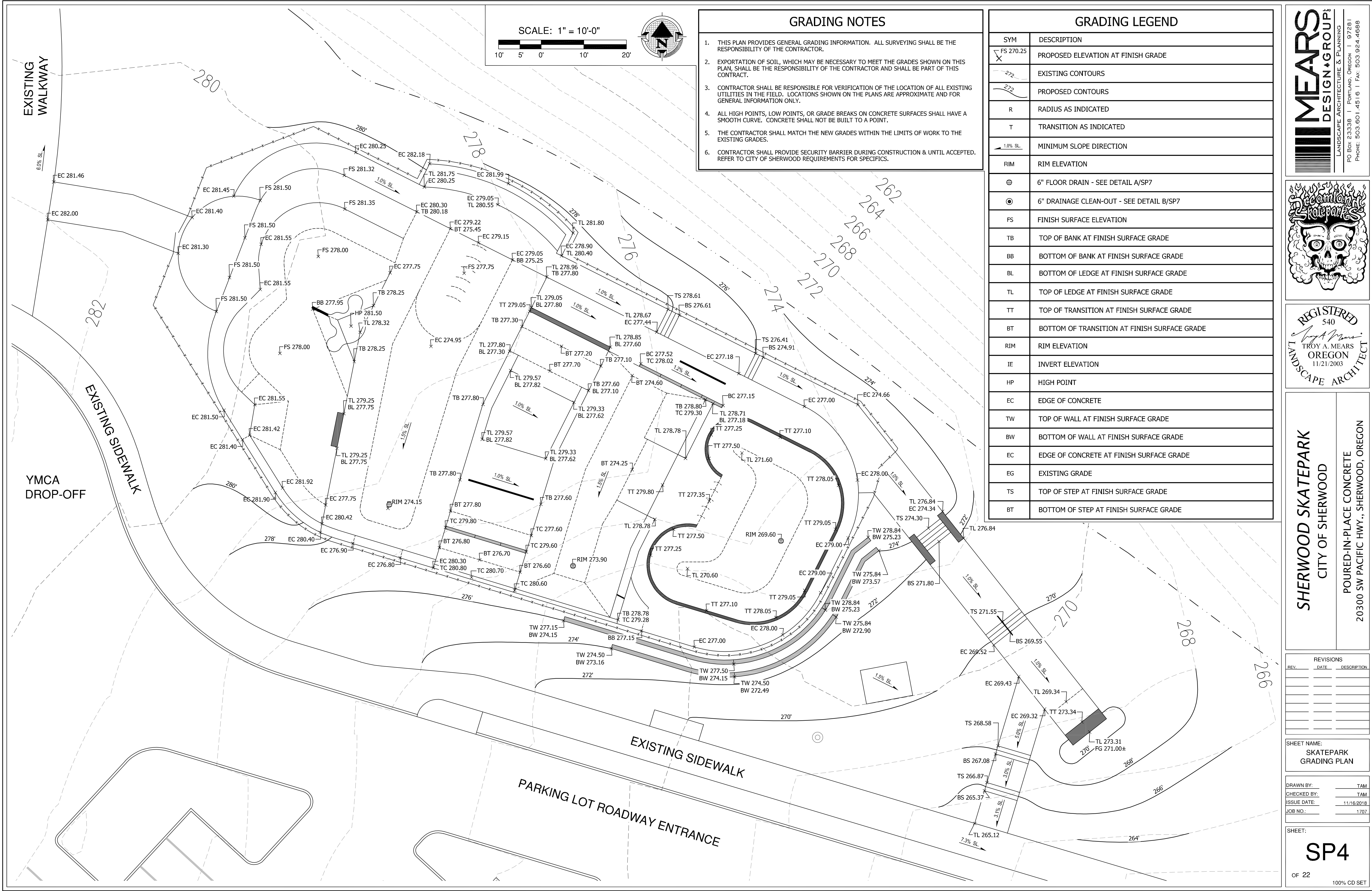
SHEET:

SP3

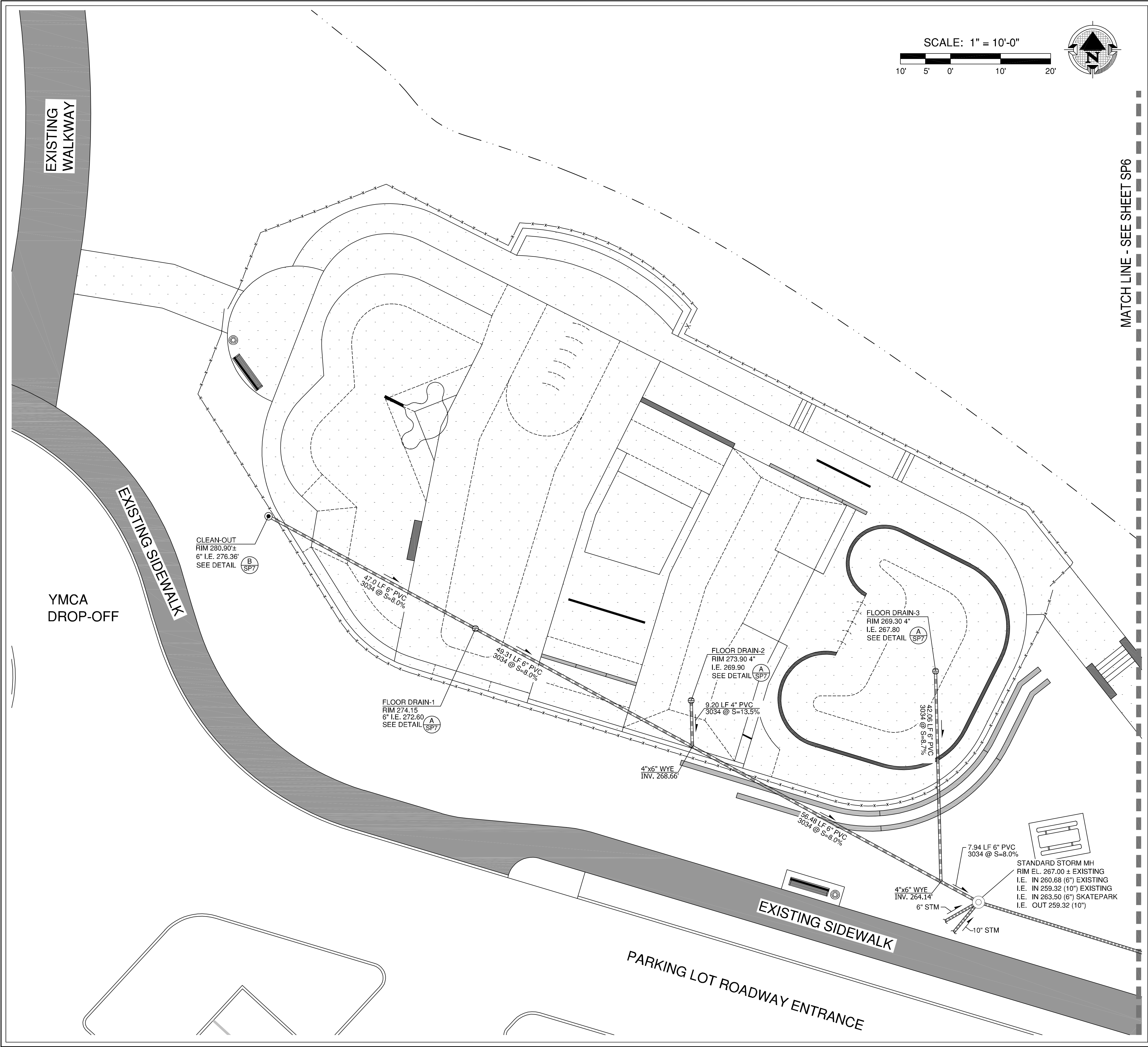
OF 22

100% CD SET









SCALE: 1" = 10'-0"



MATCH LINE - SEE SHEET SP6

DRAINAGE LEGEND

SYM	DESCRIPTION
RIM	RIM ELEVATION
I.E.	INVERT ELEVATION
	STORM DRAIN LINE - (3034) - SIZE AS NOTED
	EXISTING STORM DRAIN LINE - (3034) - SIZE AS NOTED
	EXISTING STORM SEWER MANHOLE
	6" FLOOR DRAIN - SEE DETAIL A/SP7
	6" DRAINAGE CLEAN-OUT - SEE DETAIL B/SP7
	PIPE SLOPE DIRECTION
	INDICATES SKATEPARK CONCRETE SURFACE LIMITS

DRAINAGE NOTES

- THIS PLAN PROVIDES GENERAL ELEVATION INFORMATION. ALL SURVEYING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EXPORTATION OF SOIL, WHICH MAY BE NECESSARY TO MEET THE GRADES SHOWN ON THIS PLAN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PART OF THIS CONTRACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE LOCATION OF ALL EXISTING UTILITIES IN THE FIELD. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
- SKATEPARK CONTRACTOR TO PRESERVE AND PROTECT EXISTING EROSION CONTROL AND SITE PROTECTION MEASURES THROUGHOUT CONSTRUCTION.
- DRAINAGE BEHIND WALLS & TRANSITION RAMPS IS AT THE DISCRETION & RESPONSIBILITY OF THE SKATEPARK CONTRACTOR. HOWEVER, POSITIVE DRAINAGE DIRECTED AWAY FROM SKATEPARK MUST BE MAINTAINED.
- SKATEPARK CONTRACTOR TO INSTALL ALL DRAINAGE COMPONENTS ASSOCIATED WITH SKATEPARK AND AS SHOWN ON SKATEPARK PLANS INCLUDING FLOOR DRAINS AND CONNECTION TAPS INTO EXISTING DRAINAGE SYSTEM. COORDINATION REQUIRED WITH CIVIL DRAWINGS AND PLUMBING CONTRACTOR.

LANDSCAPE ARCHITECTURE & PLANNING  
PO BOX 23338 | PORTLAND, OREGON | 97281  
PHONE: 503.601.4516 | FAX: 503.924.4688

REGISTERED  
540  
*Troy A. Mears*  
TROY A. MEARS  
OREGON  
11/21/2003  
LANDSCAPE ARCHITECT

SHERWOOD SKATEPARK  
CITY OF SHERWOOD

POURED-IN-PLACE CONCRETE  
20300 SW PACIFIC HWY., SHERWOOD, OREGON

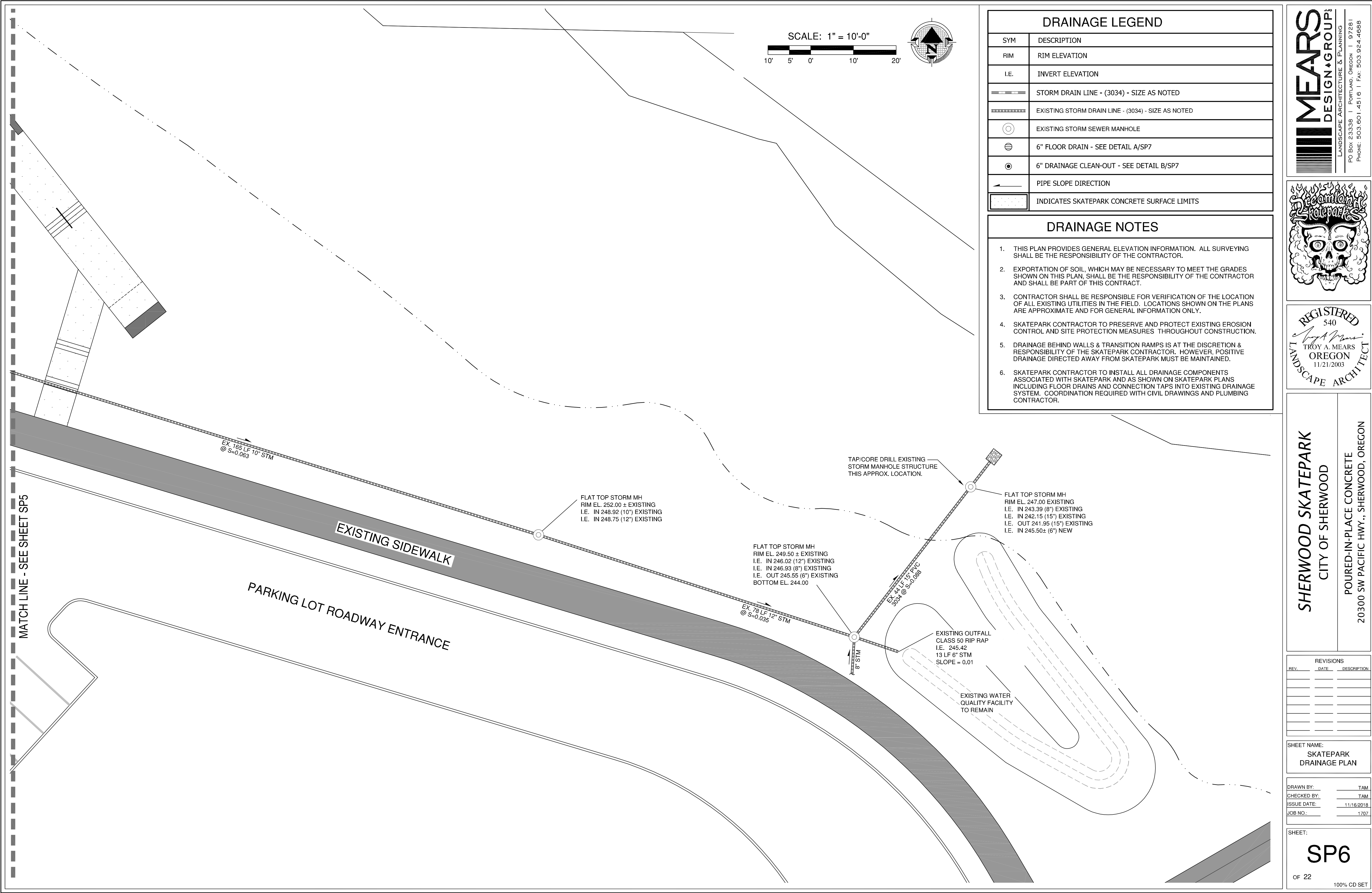
REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
SKATEPARK DRAINAGE PLAN

DRAWN BY:            TAM  
CHECKED BY:            TAM  
ISSUE DATE: 11/18/2018  
JOB NO.: 1707

SHEET:  
**SP5**  
OF 22  
100% CD SET





DRAINAGE LEGEND

SYM	DESCRIPTION
RIM	RIM ELEVATION
I.E.	INVERT ELEVATION
	STORM DRAIN LINE - (3034) - SIZE AS NOTED
	EXISTING STORM DRAIN LINE - (3034) - SIZE AS NOTED
	EXISTING STORM SEWER MANHOLE
	6" FLOOR DRAIN - SEE DETAIL A/SP7
	6" DRAINAGE CLEAN-OUT - SEE DETAIL B/SP7
	PIPE SLOPE DIRECTION
	INDICATES SKATEPARK CONCRETE SURFACE LIMITS

DRAINAGE NOTES

1.

THIS PLAN PROVIDES GENERAL ELEVATION INFORMATION. ALL SURVEYING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2.

EXPORTATION OF SOIL, WHICH MAY BE NECESSARY TO MEET THE GRADES SHOWN ON THIS PLAN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PART OF THIS CONTRACT.

3.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE LOCATION OF ALL EXISTING UTILITIES IN THE FIELD. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.

4.

SKATEPARK CONTRACTOR TO PRESERVE AND PROTECT EXISTING EROSION CONTROL AND SITE PROTECTION MEASURES THROUGHOUT CONSTRUCTION.

5.

DRAINAGE BEHIND WALLS & TRANSITION RAMPS IS AT THE DISCRETION & RESPONSIBILITY OF THE SKATEPARK CONTRACTOR. HOWEVER, POSITIVE DRAINAGE DIRECTED AWAY FROM SKATEPARK MUST BE MAINTAINED.

6.

SKATEPARK CONTRACTOR TO INSTALL ALL DRAINAGE COMPONENTS ASSOCIATED WITH SKATEPARK AND AS SHOWN ON SKATEPARK PLANS INCLUDING FLOOR DRAINS AND CONNECTION TAPS INTO EXISTING DRAINAGE SYSTEM. COORDINATION REQUIRED WITH CIVIL DRAWINGS AND PLUMBING CONTRACTOR.

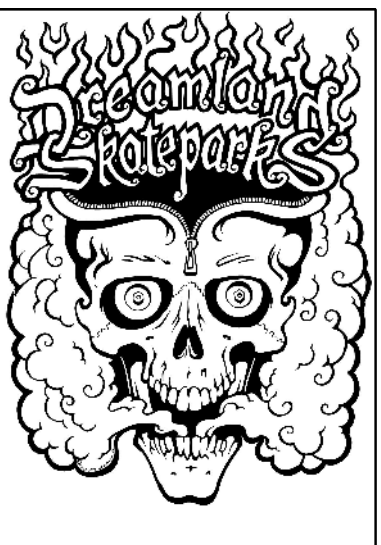
MEARS

DESIGN+GROUP

LANDSCAPE ARCHITECTURE & PLANNING

PO BOX 23338 | PORTLAND, OREGON | 97281

PHONE: 503.601.4516 | FAX: 503.924.4688



REGISTERED

540

TROY A. MEARS

OREGON

11/21/2003

LANDSCAPE ARCHITECT

SHERWOOD SKATEPARK

CITY OF SHERWOOD

POURED-IN-PLACE CONCRETE

20300 SW PACIFIC HWY., SHERWOOD, OREGON

REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:

SKATEPARK DRAINAGE PLAN

DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/18/2018
JOB NO.:	1707

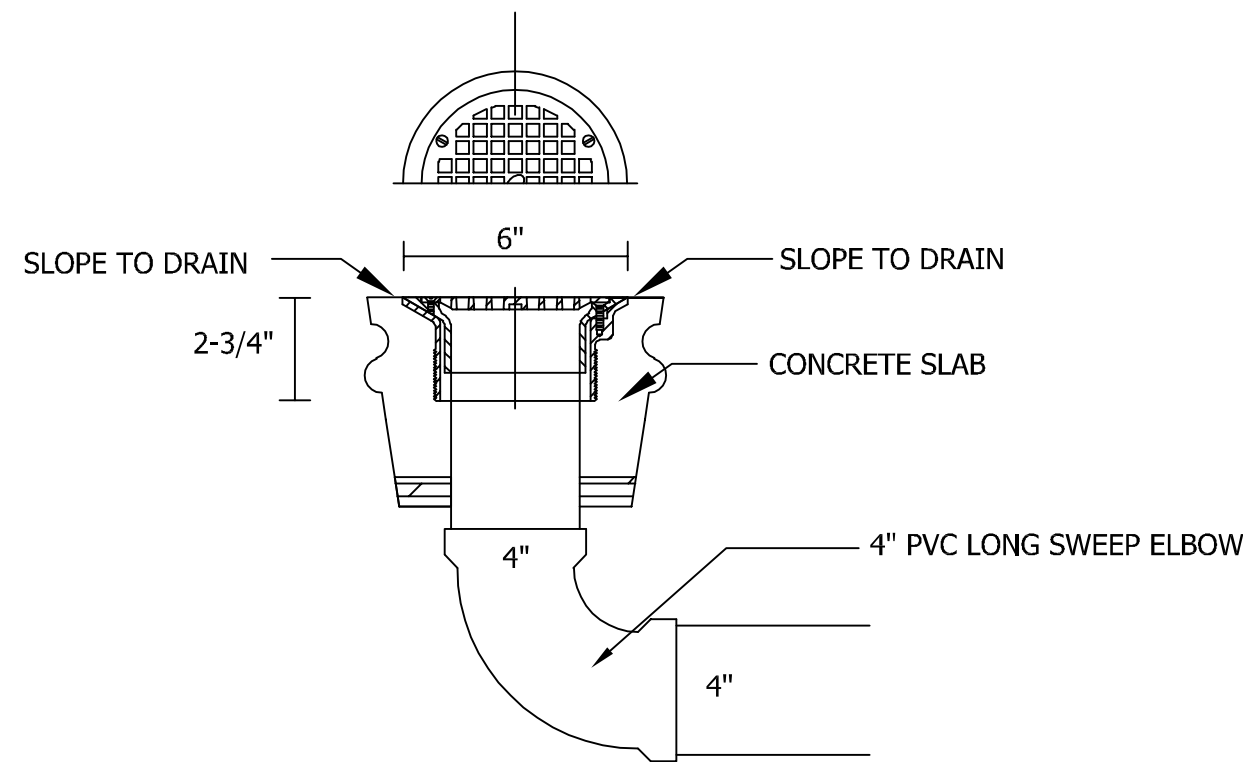
SHEET:

SP6

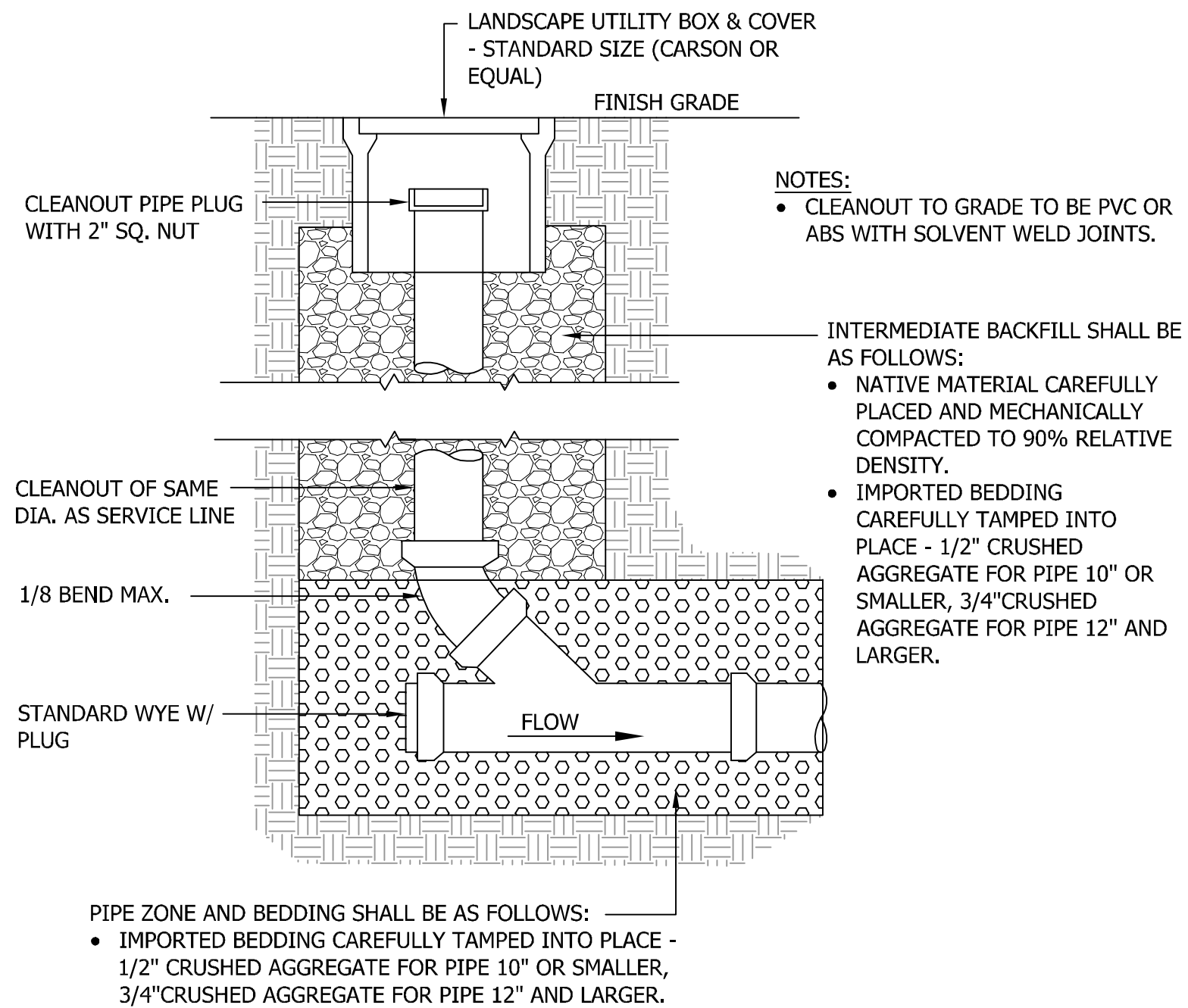
OF 22

100% CD SET





**A**  
**SP7** **JSC FLOOR DRAIN (D53072)**  
JONES STEPHENS CORP. N.T.S.  
(OR EQUAL)



**B**  
**SP7** **CLEAN OUT DETAIL**  
N.T.S.

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED



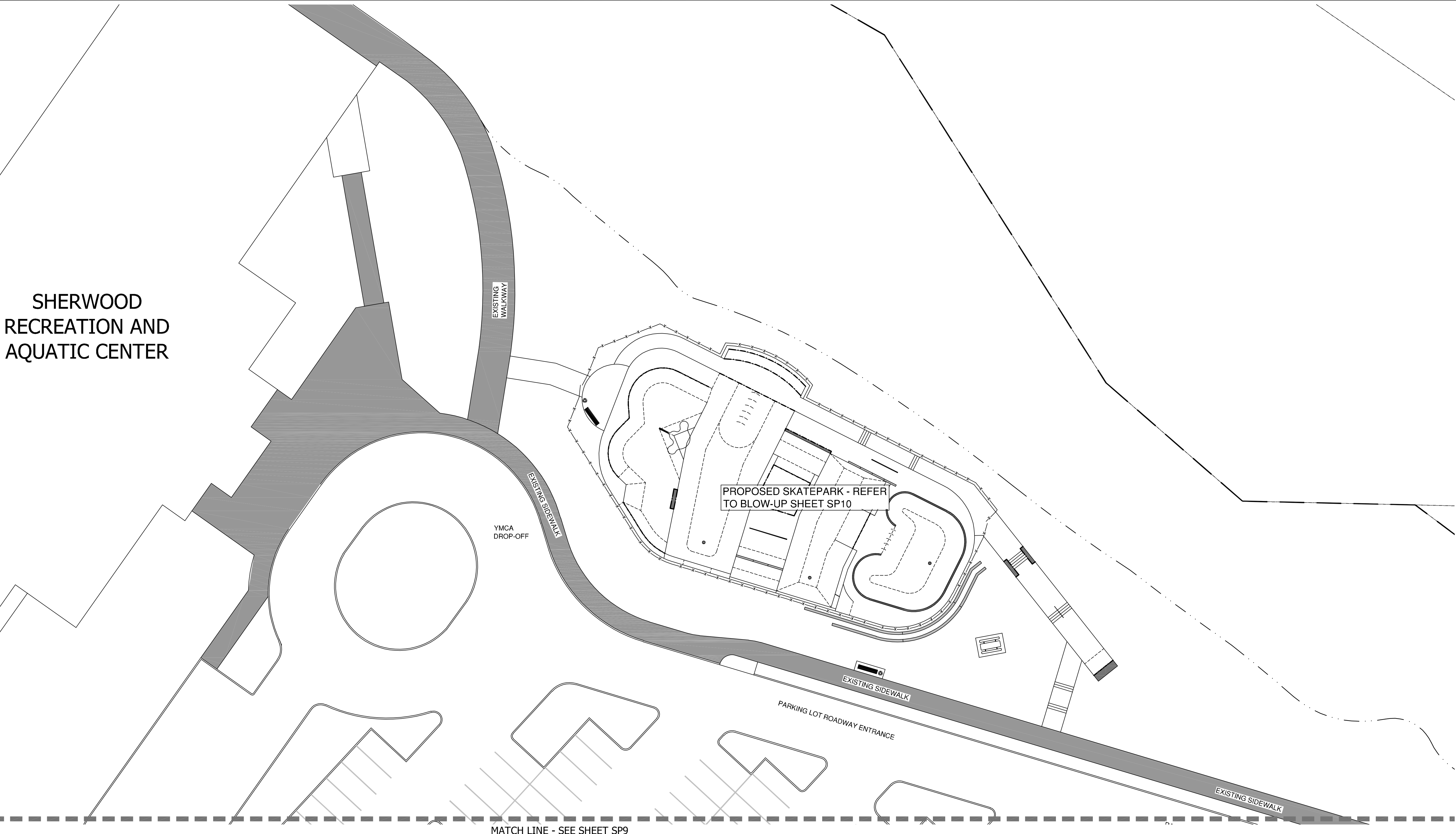
REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
**DRAINAGE  
DETAILS & NOTES**

DRAWN BY:            TAM  
CHECKED BY:            TAM  
ISSUE DATE: 11/18/2018  
JOB NO.: 1707



SHERWOOD  
RECREATION AND  
AQUATIC CENTER



**MEARS**  
DESIGN+GROUP

LANDSCAPE ARCHITECTURE & PLANNING  
PO BOX 23338 | PORTLAND, OREGON | 97281  
PHONE: 503.601.4516 | FAX: 503.924.4688



REGISTERED  
540

*Troy A. Mears*  
TROY A. MEARS  
OREGON  
11/21/2003

LANDSCAPE ARCHITECT

**SHERWOOD SKATEPARK**  
CITY OF SHERWOOD

POURED-IN-PLACE CONCRETE  
20300 SW PACIFIC HWY., SHERWOOD, OREGON

REVISIONS		
REV.	DATE	DESCRIPTION

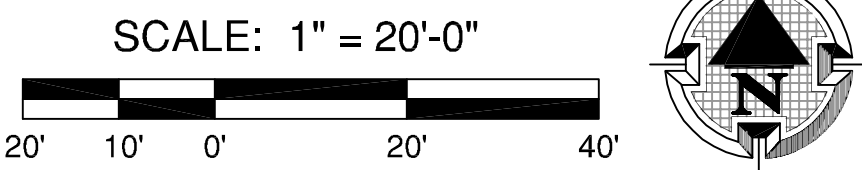
SHEET NAME:  
SKATEPARK  
REFERENCE PLAN

DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/18/2018
JOB NO.:	1707

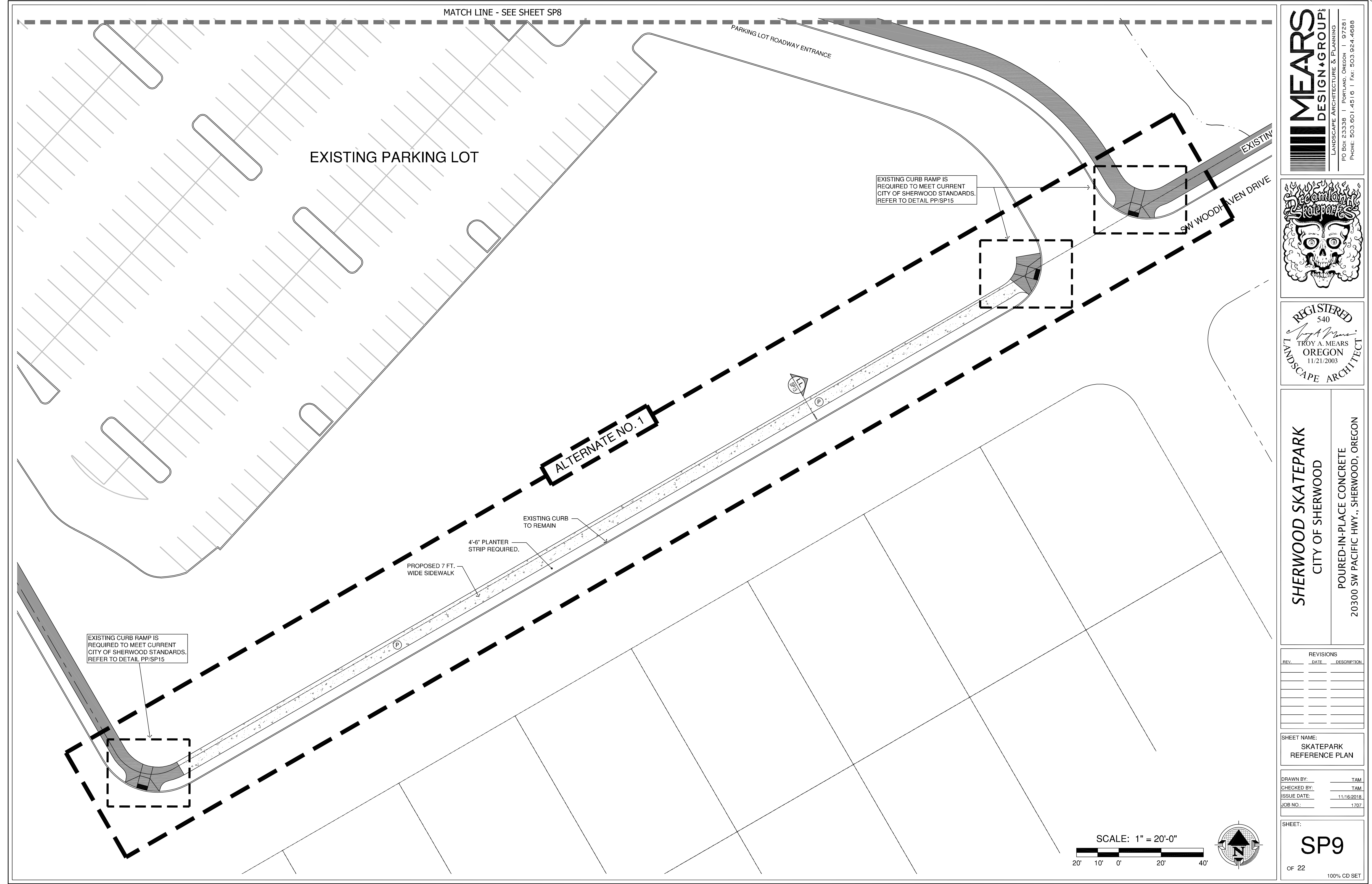
SHEET:

**SP8**

OF 22  
100% CD SET



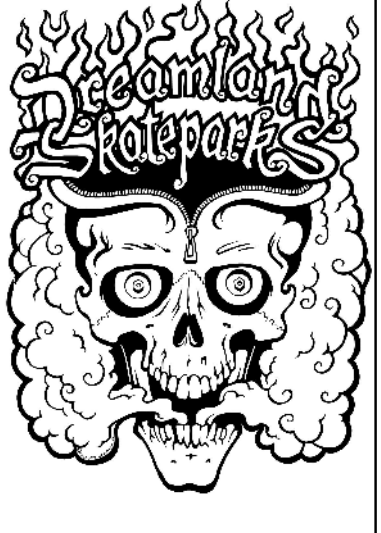




MEARS

DESIGN+GROUP

LANDSCAPE ARCHITECTURE & PLANNING  
PO BOX 23338 | PORTLAND, OREGON | 97281  
PHONE: 503.601.4516 | FAX: 503.924.4688



REGISTERED  
540  
*Troy A. Mears*  
TROY A. MEARS  
OREGON  
11/21/2003  
LANDSCAPE ARCHITECT

SHERWOOD SKATEPARK  
CITY OF SHERWOOD

POURED-IN-PLACE CONCRETE  
20300 SW PACIFIC HWY., SHERWOOD, OREGON

REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
SKATEPARK  
REFERENCE PLAN

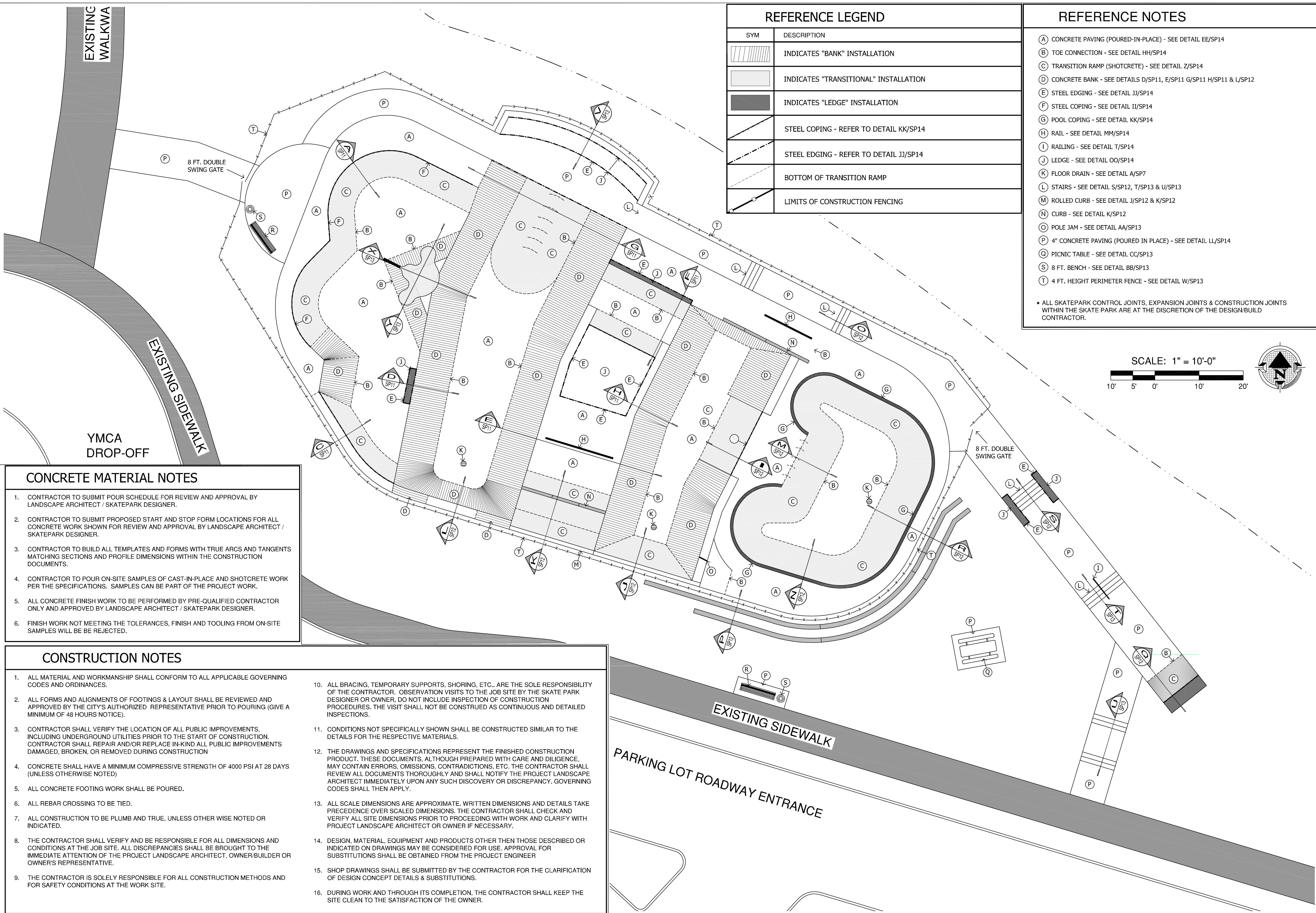
DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/18/2018
JOB NO.:	1707

SHEET:

SP9

OF 22  
100% CD SET





CONCRETE MATERIAL NOTES

1. CONTRACTOR TO SUBMIT POUR SCHEDULE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT / SKATEPARK DESIGNER.
2. CONTRACTOR TO SUBMIT PROPOSED START AND STOP FORM LOCATIONS FOR ALL CONCRETE WORK SHOWN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT / SKATEPARK DESIGNER.
3. CONTRACTOR TO BUILD ALL TEMPLATES AND FORMS WITH TRUE ARCS AND TANGENTS MATCHING SECTIONS AND PROFILE DIMENSIONS WITHIN THE CONSTRUCTION DOCUMENTS.
4. CONTRACTOR TO POUR ON-SITE SAMPLES OF CAST-IN-PLACE AND SHOTCRETE WORK PER THE SPECIFICATIONS. SAMPLES CAN BE PART OF THE PROJECT WORK.
5. ALL CONCRETE FINISH WORK TO BE PERFORMED BY PRE-QUALIFIED CONTRACTOR ONLY AND APPROVED BY LANDSCAPE ARCHITECT / SKATEPARK DESIGNER.
6. FINISH WORK NOT MEETING THE TOLERANCES, FINISH AND TOOLING FROM ON-SITE SAMPLES WILL BE REJECTED.

CONSTRUCTION NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE GOVERNING CODES AND ORDINANCES.
2. ALL FORMS AND ALIGNMENTS OF FOOTINGS & LAYOUT SHALL BE REVIEWED AND APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO POURING (GIVE A MINIMUM OF 48 HOURS NOTICE).
3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PUBLIC IMPROVEMENTS, INCLUDING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN-KIND ALL PUBLIC IMPROVEMENTS DAMAGED, BROKEN, OR REMOVED DURING CONSTRUCTION
4. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS (UNLESS OTHERWISE NOTED)
5. ALL CONCRETE FOOTING WORK SHALL BE POURED.
6. ALL REBAR CROSSING TO BE TIED.
7. ALL CONSTRUCTION TO BE PLUMB AND TRUE, UNLESS OTHER WISE NOTED OR INDICATED.
8. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT LANDSCAPE ARCHITECT, OWNER/BUILDER OR OWNER'S REPRESENTATIVE.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS AND FOR SAFETY CONDITIONS AT THE WORK SITE.
10. ALL BRACING, TEMPORARY SUPPORTS, SHORING, ETC.. ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OBSERVATION VISITS TO THE JOB SITE BY THE SKATE PARK DESIGNER OR OWNER, DO NOT INCLUDE INSPECTION OF CONSTRUCTION PROCEDURES. THE VISIT SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
11. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED SIMILAR TO THE DETAILS FOR THE RESPECTIVE MATERIALS.
12. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED CONSTRUCTION PRODUCT. THESE DOCUMENTS, ALTHOUGH PREPARED WITH CARE AND DILIGENCE, MAY CONTAIN ERRORS, OMISSIONS, CONTRADICTIONS, ETC. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS THOROUGHLY AND SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IMMEDIATELY UPON ANY SUCH DISCOVERY OR DISCREPANCY. GOVERNING CODES SHALL THEN APPLY.
13. ALL SCALE DIMENSIONS ARE APPROXIMATE. WRITTEN DIMENSIONS AND DETAILS TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL CHECK AND VERIFY ALL SITE DIMENSIONS PRIOR TO PROCEEDING WITH WORK AND CLARIFY WITH PROJECT LANDSCAPE ARCHITECT OR OWNER IF NECESSARY.
14. DESIGN, MATERIAL, EQUIPMENT AND PRODUCTS OTHER THEN THOSE DESCRIBED OR INDICATED ON DRAWINGS MAY BE CONSIDERED FOR USE. APPROVAL FOR SUBSTITUTIONS SHALL BE OBTAINED FROM THE PROJECT ENGINEER
15. SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE CLARIFICATION OF DESIGN CONCEPT DETAILS & SUBSTITUTIONS.
16. DURING WORK AND THROUGH ITS COMPLETION, THE CONTRACTOR SHALL KEEP THE SITE CLEAN TO THE SATISFACTION OF THE OWNER.

**MEARS**  
DESIGN+GROUP

LANDSCAPE ARCHITECTURE & PLANNING  
PO BOX 23338 | PORTLAND, OREGON | 97281  
PHONE: 503.601.4516 | FAX: 503.924.4688



REGISTERED  
540  
TROY A. MEARS  
OREGON  
11/21/2003  
LANDSCAPE ARCHITECT

**SHERWOOD SKATEPARK**  
CITY OF SHERWOOD

POURED-IN-PLACE CONCRETE  
20300 SW PACIFIC HWY., SHERWOOD, OREGON

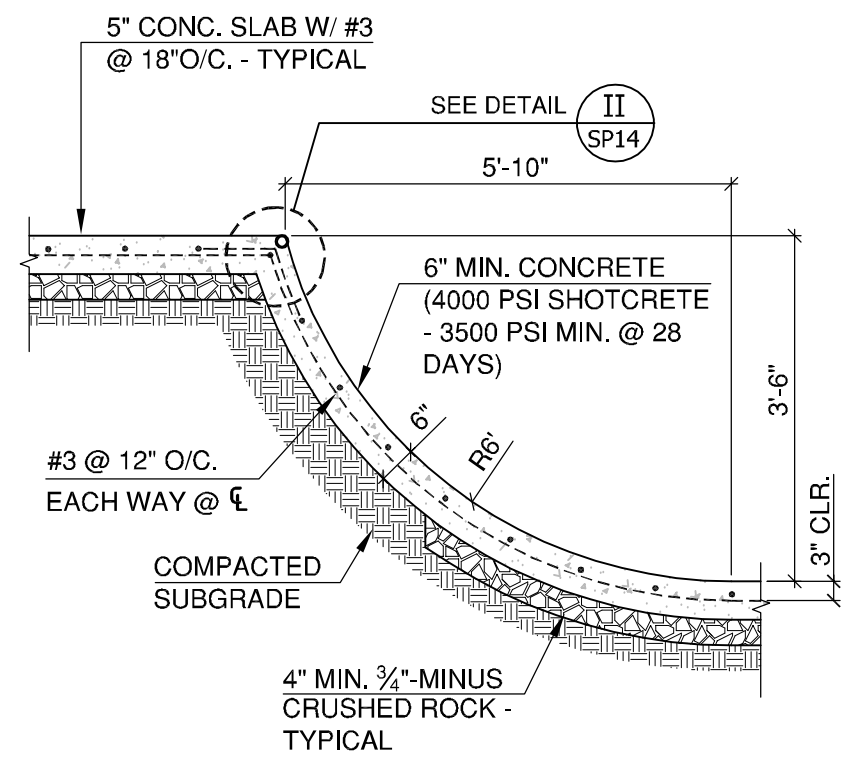
REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
SKATEPARK  
REFERENCE PLAN

DRAWN BY: TAM  
CHECKED BY: TAM  
ISSUE DATE: 11/18/2018  
JOB NO.: 1707

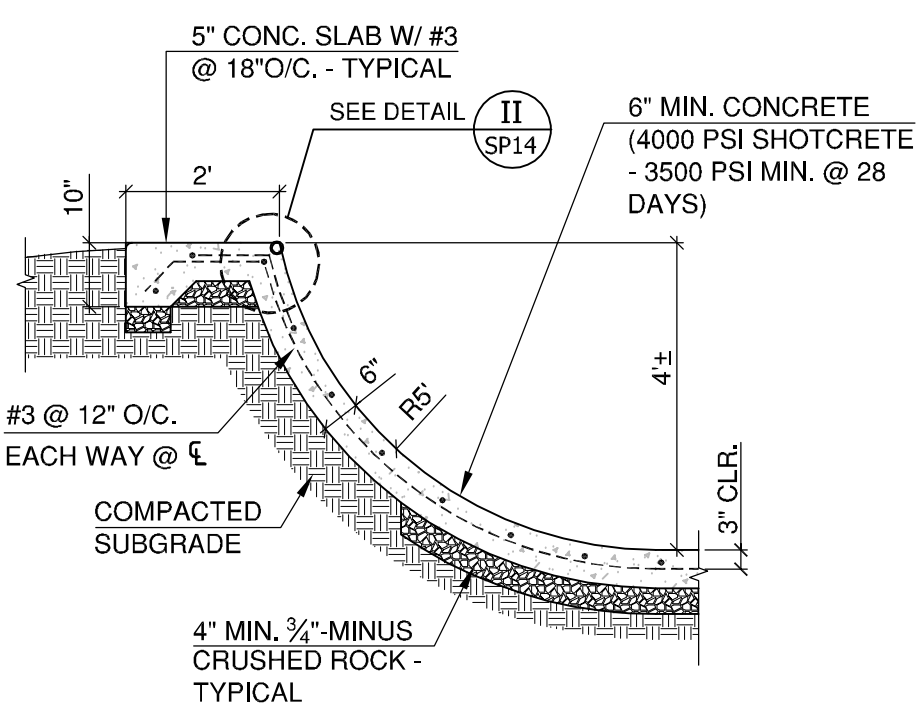
SHEET:  
**SP10**  
OF 22  
100% CD SET



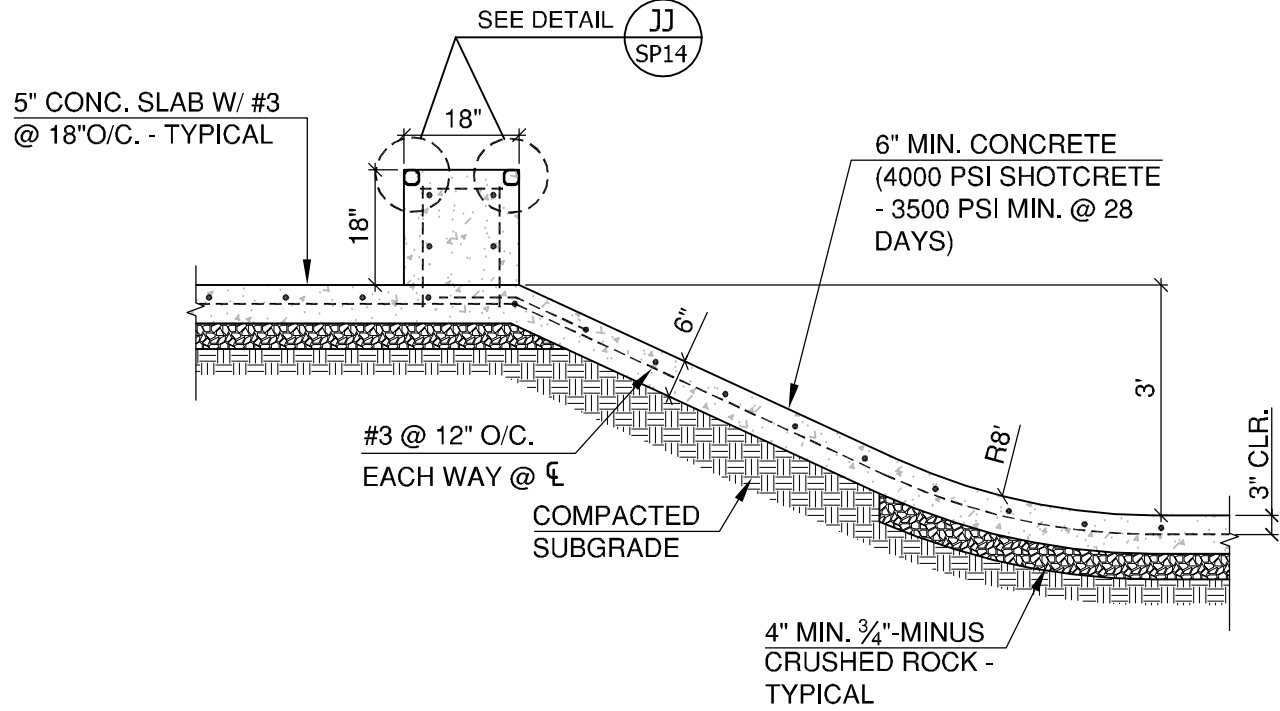


A SECTION 'A'  
SP11 N.T.S.

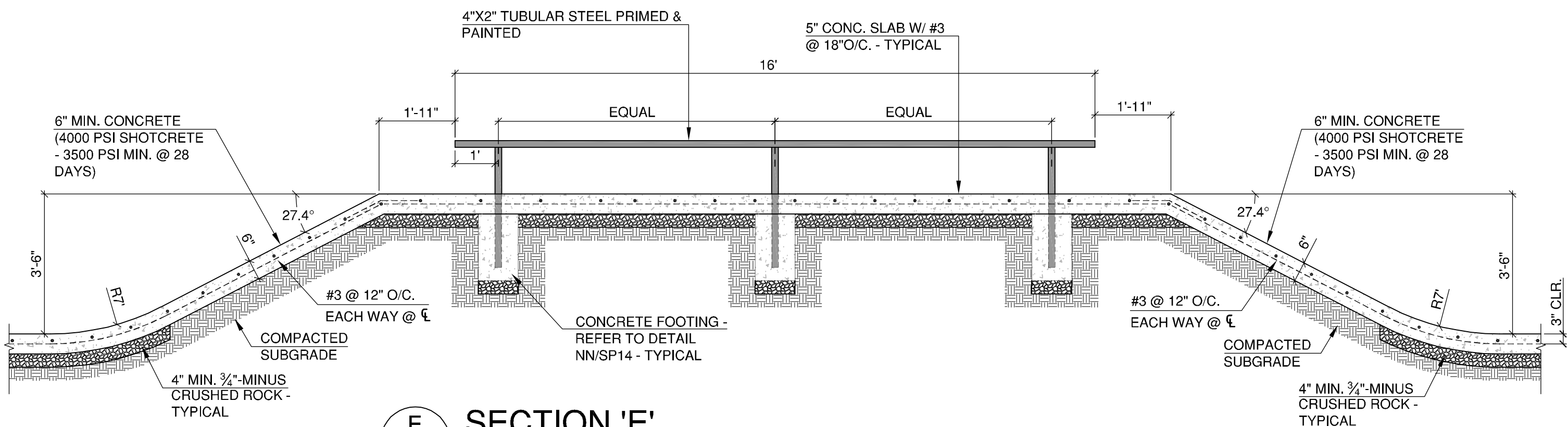
NOT USED



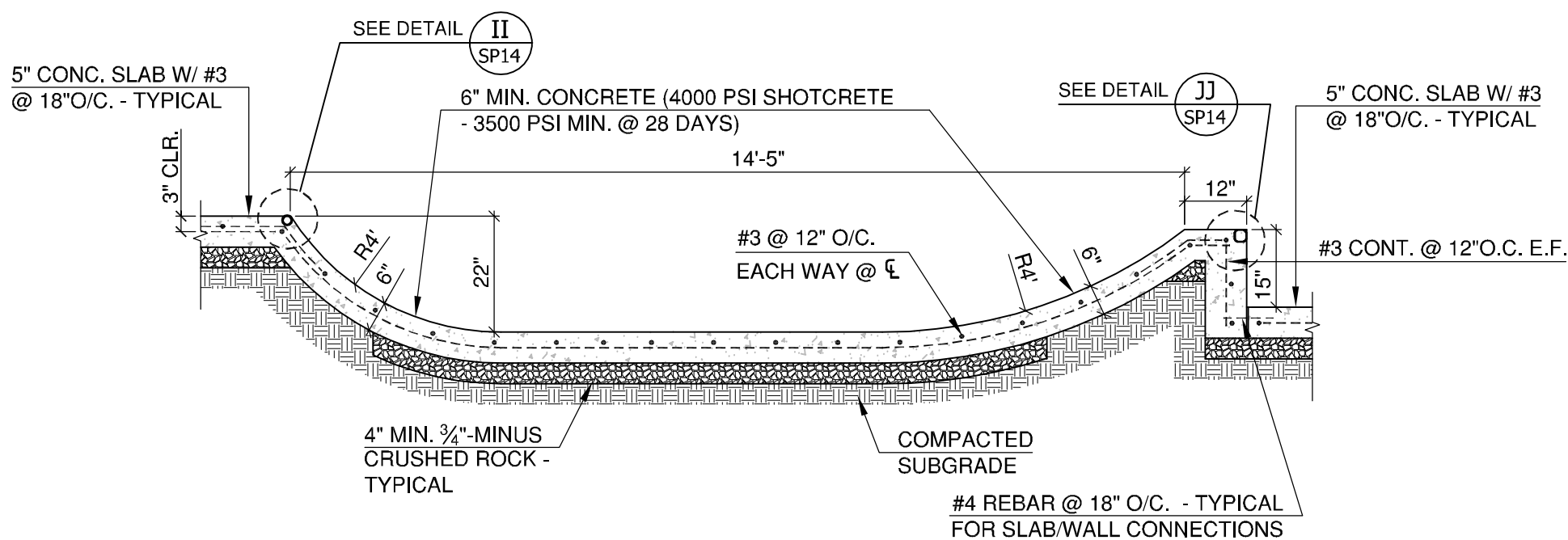
C SECTION 'C'  
SP11 N.T.S.



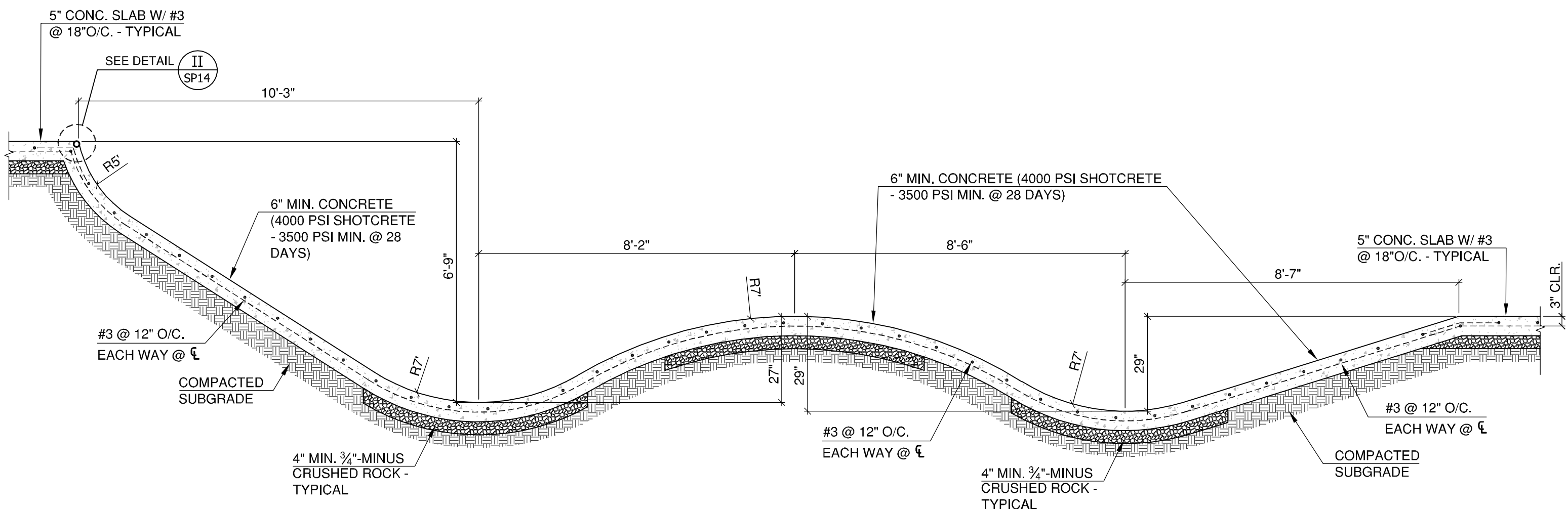
D SECTION 'D'  
SP11 N.T.S.



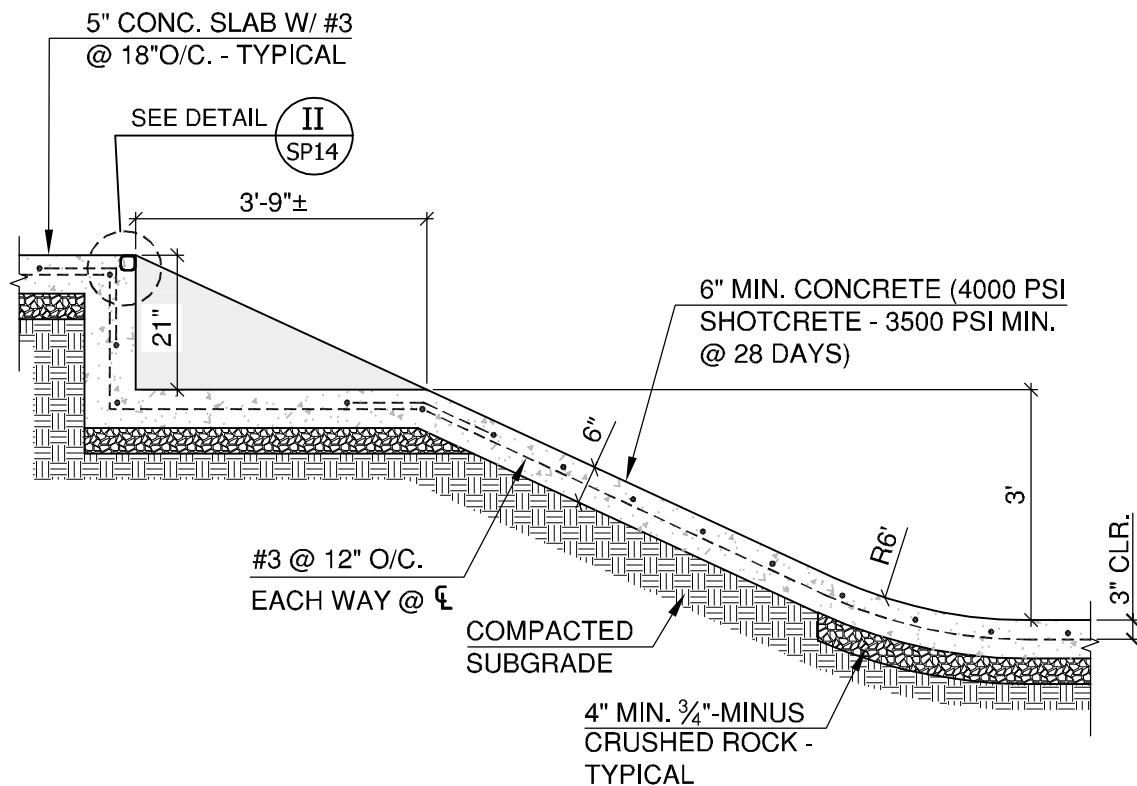
E SECTION 'E'  
SP11 N.T.S.



F SECTION 'F'  
SP11 N.T.S.



G SECTION 'G'  
SP11 N.T.S.



H SECTION 'H'  
SP11 N.T.S.



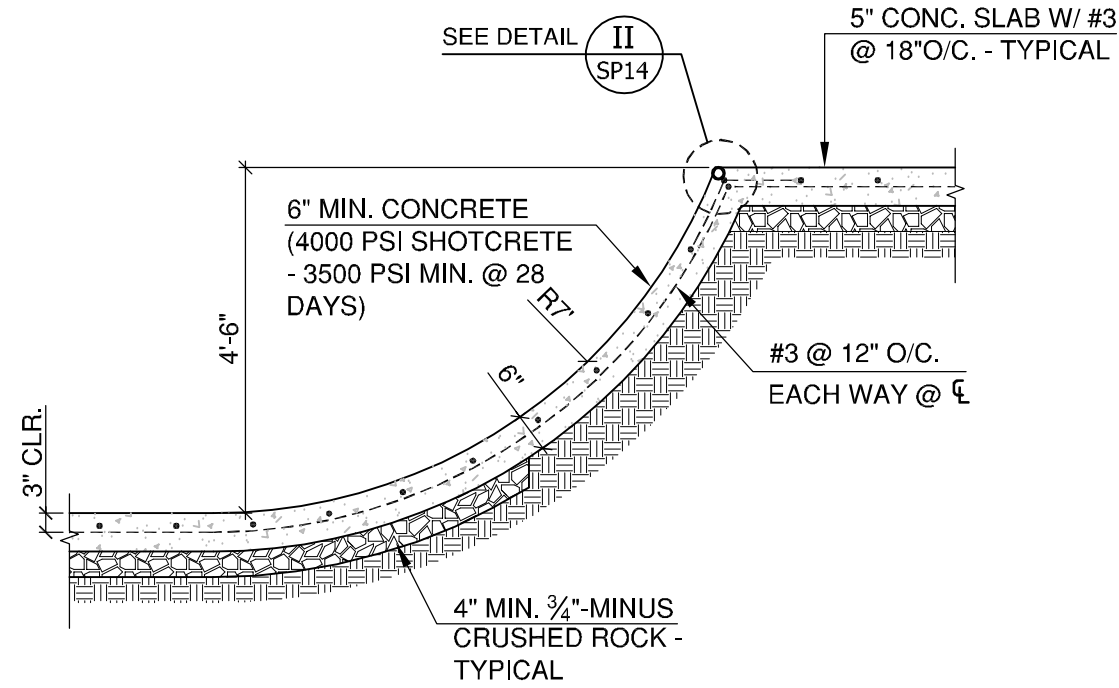
REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
SKATEPARK  
DETAILS & NOTES

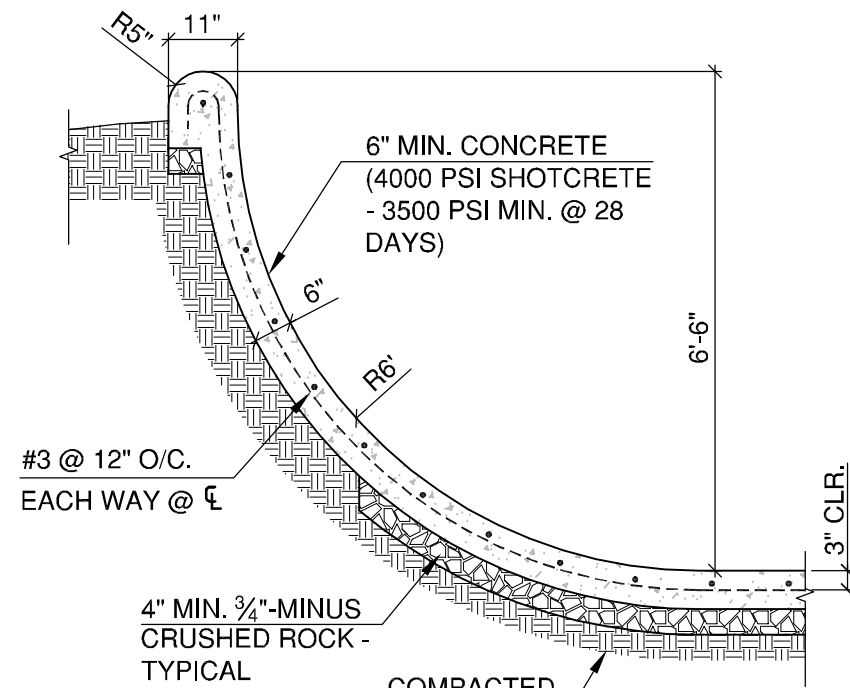
DRAWN BY: TAM  
CHECKED BY: TAM  
ISSUE DATE: 11/18/2018  
JOB NO.: 1707

SHEET:  
SP11  
OF 22  
100% CD SET

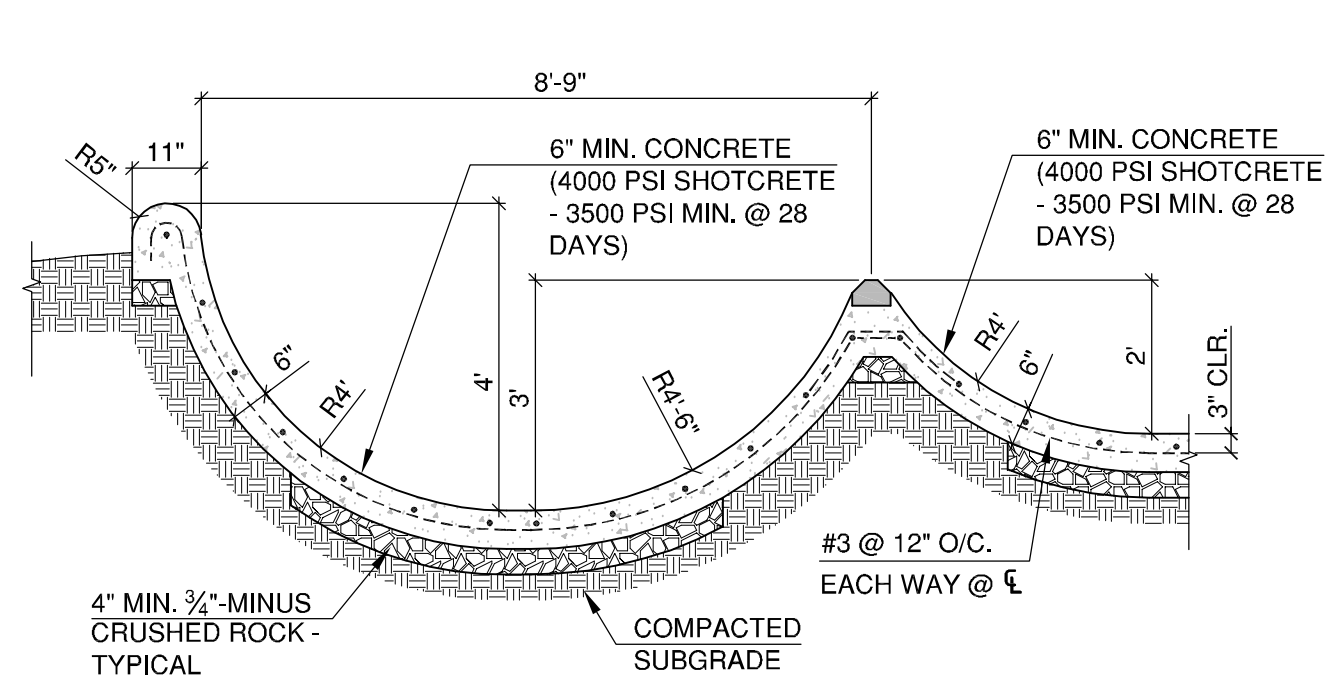




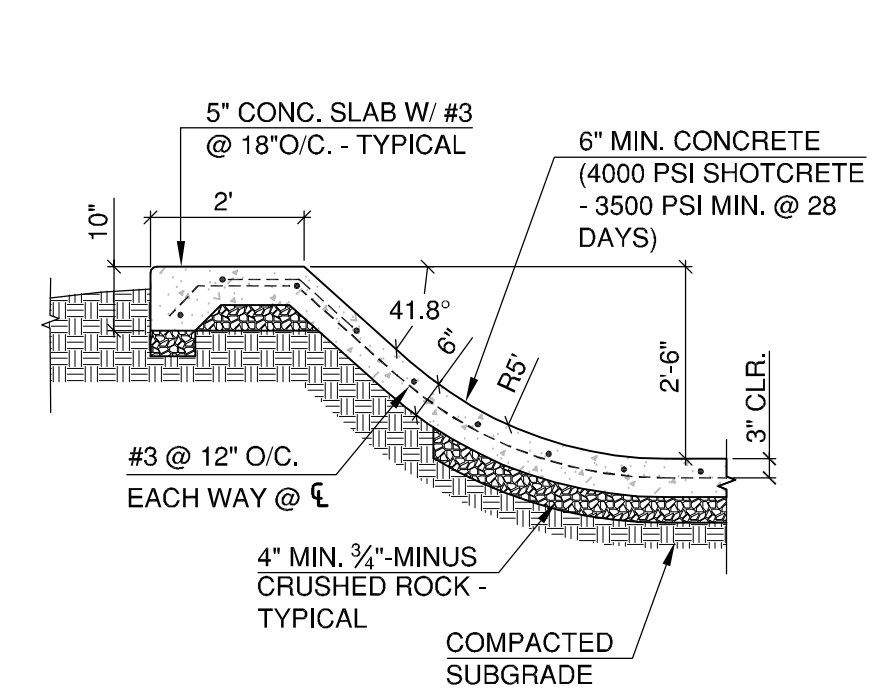
I SECTION 'I'  
SP12 N.T.S.



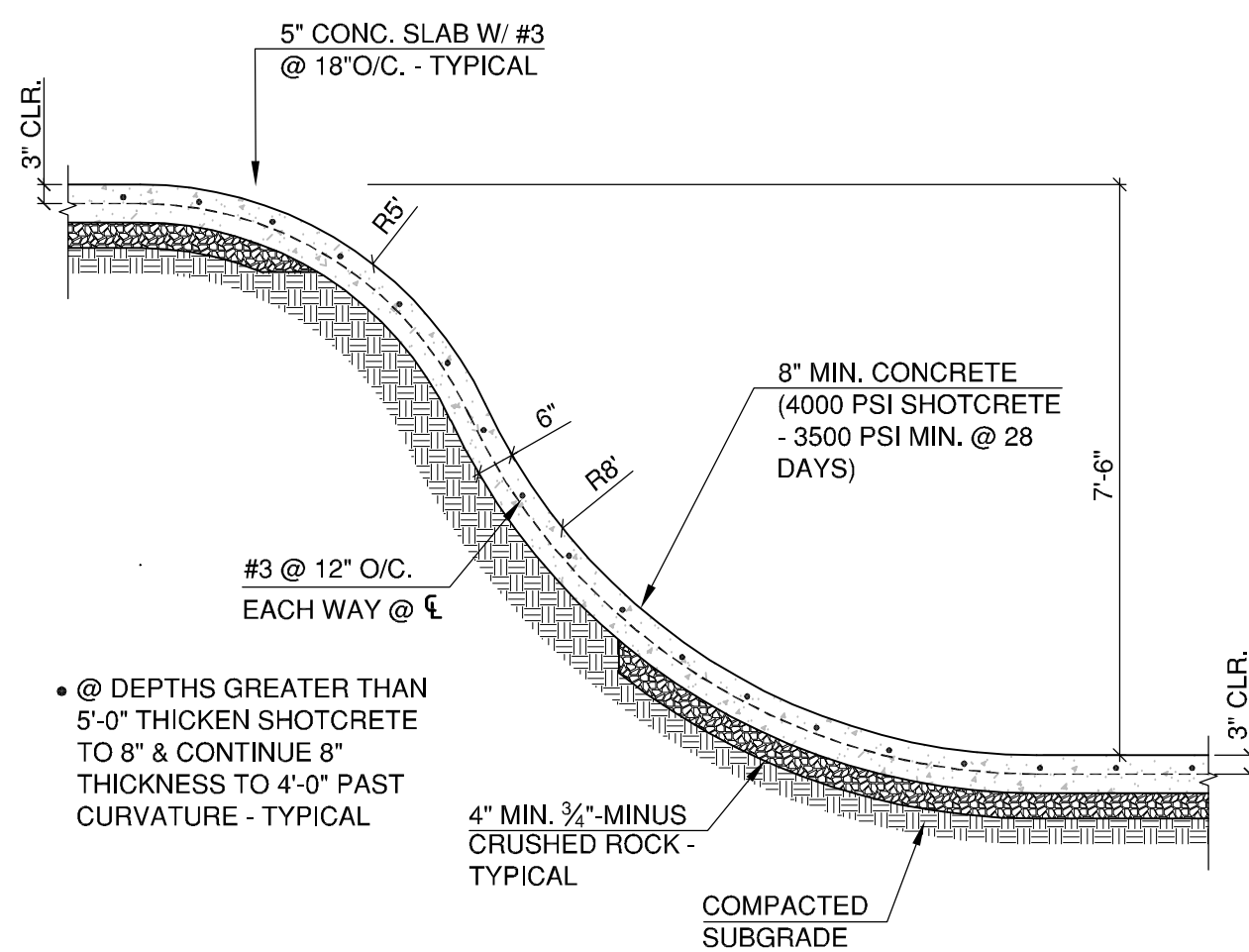
J SECTION 'J'  
SP12 N.T.S.



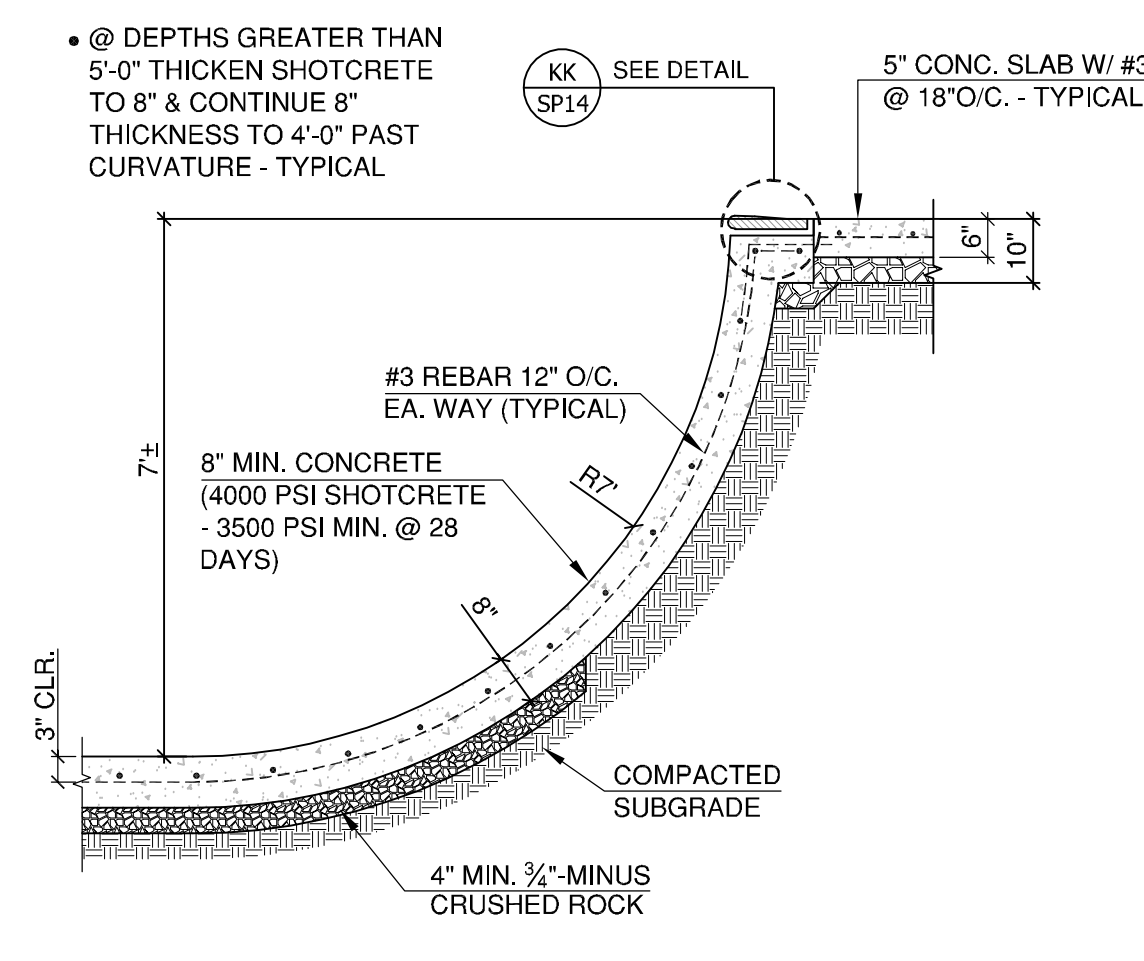
K SECTION 'K'  
SP12 N.T.S.



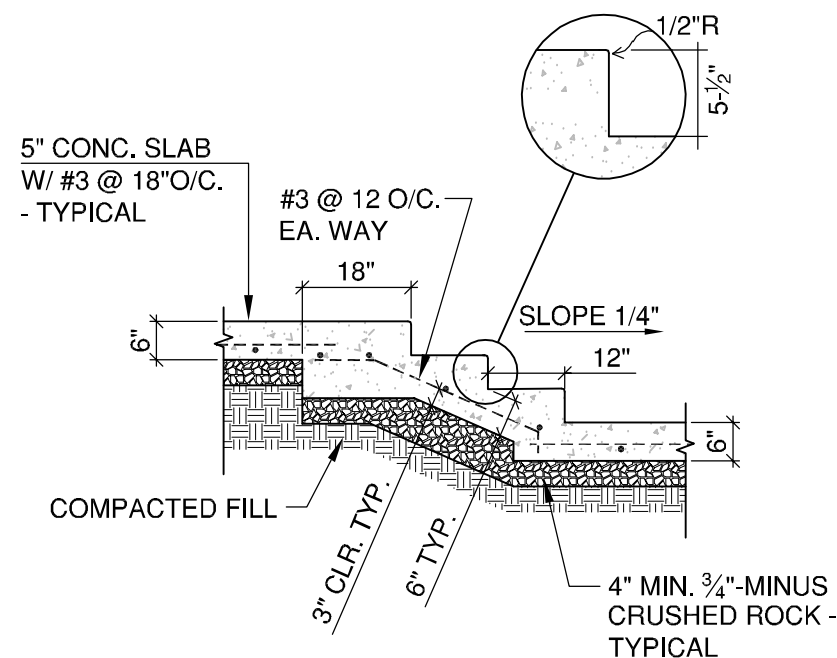
L SECTION 'L'  
SP12 N.T.S.



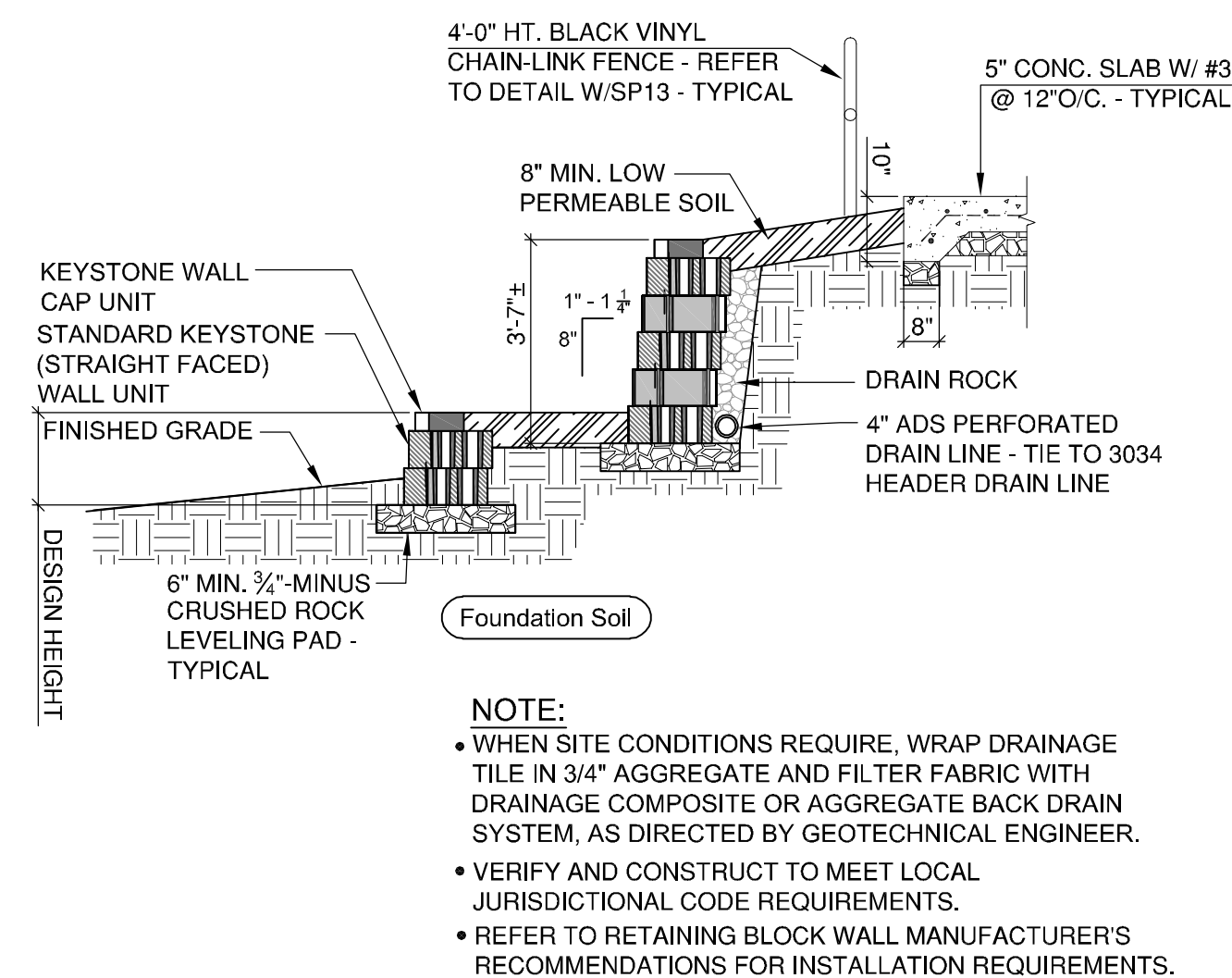
M SECTION 'M'  
SP12 N.T.S.



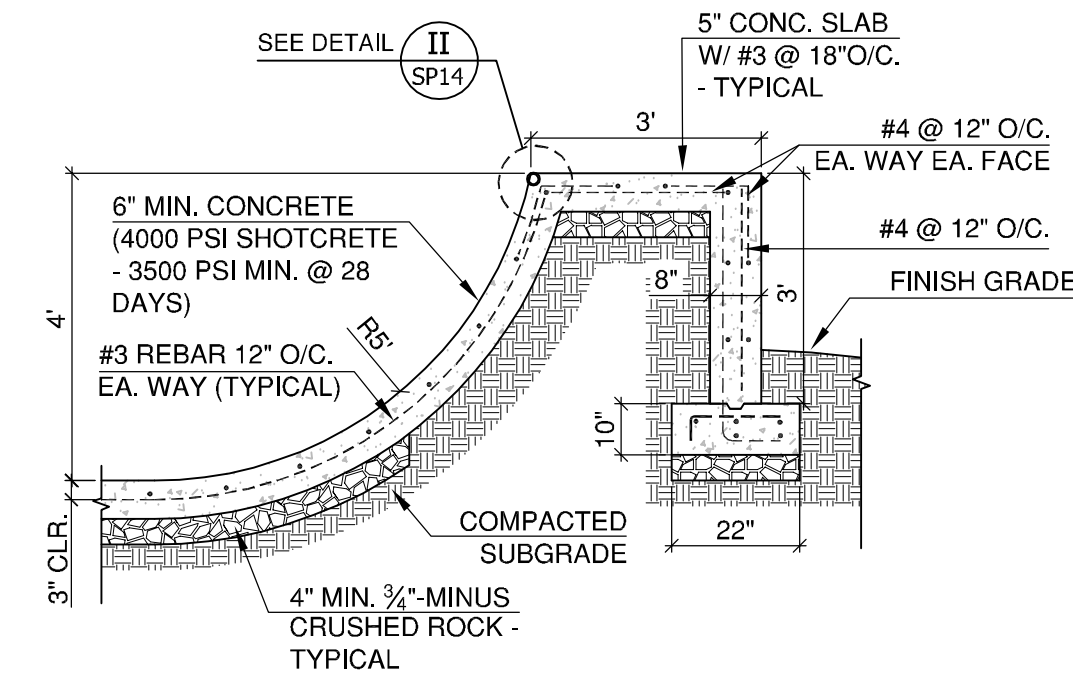
N SECTION 'N'  
SP12 N.T.S.



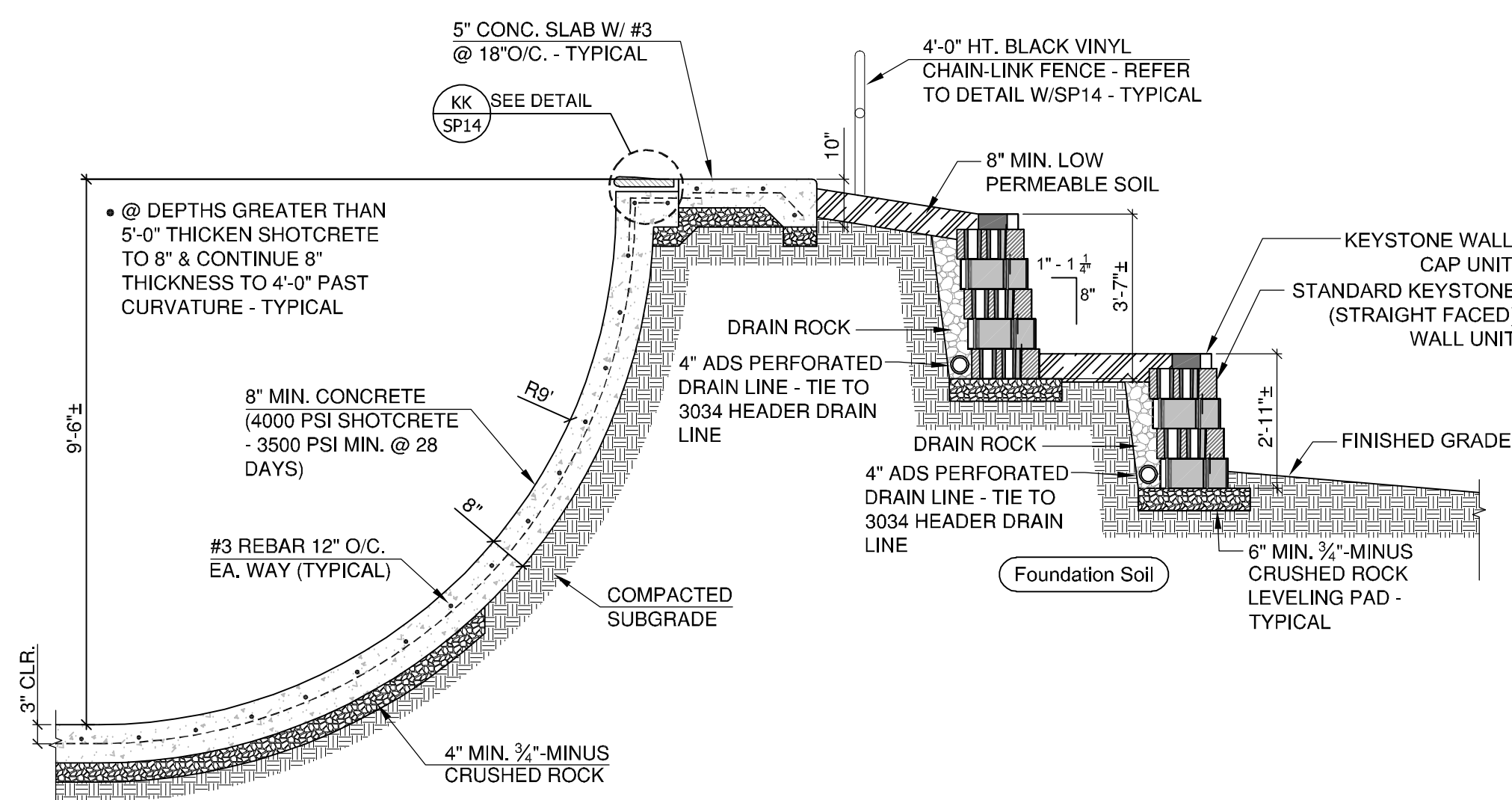
O SECTION 'O'  
SP12 N.T.S.



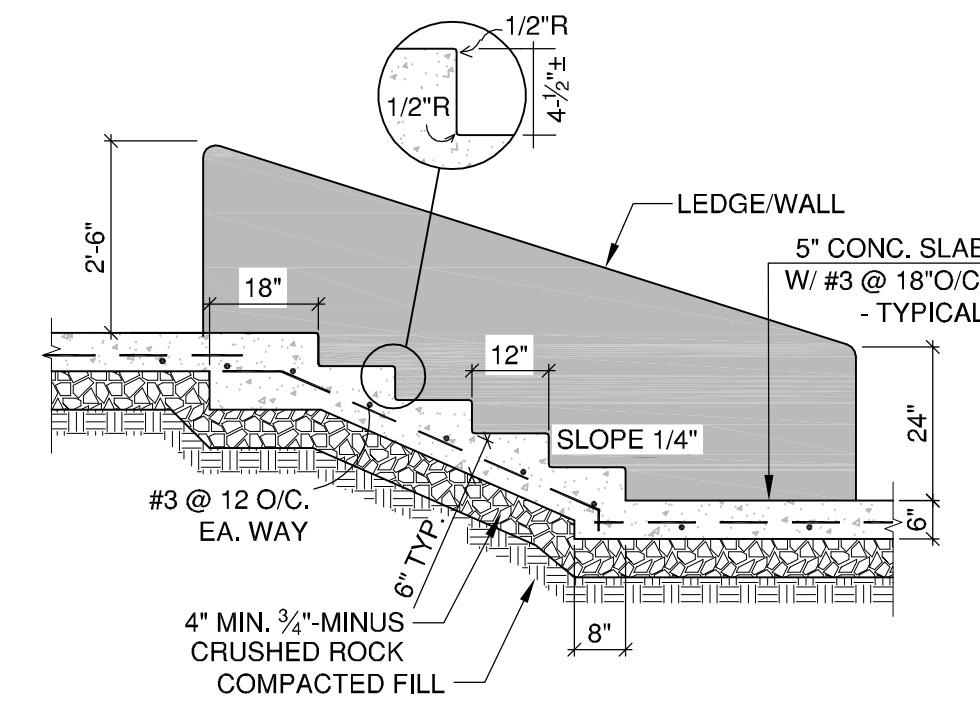
P SECTION 'P'  
SP12 N.T.S.



Q SECTION 'Q'  
SP12 N.T.S.



R SECTION 'R'  
SP12 N.T.S.



S SECTION 'S'  
SP12 N.T.S.



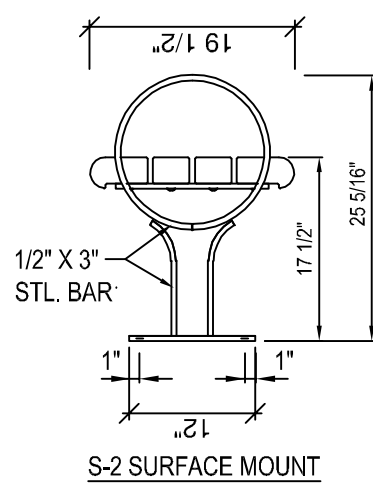
REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
SKATEPARK  
DETAILS & NOTES

DRAWN BY: TAM  
CHECKED BY: TAM  
ISSUE DATE: 11/18/2018  
JOB NO.: 1707

SHEET:  
**SP12**  
OF 22  
100% CD SET





NOT USED

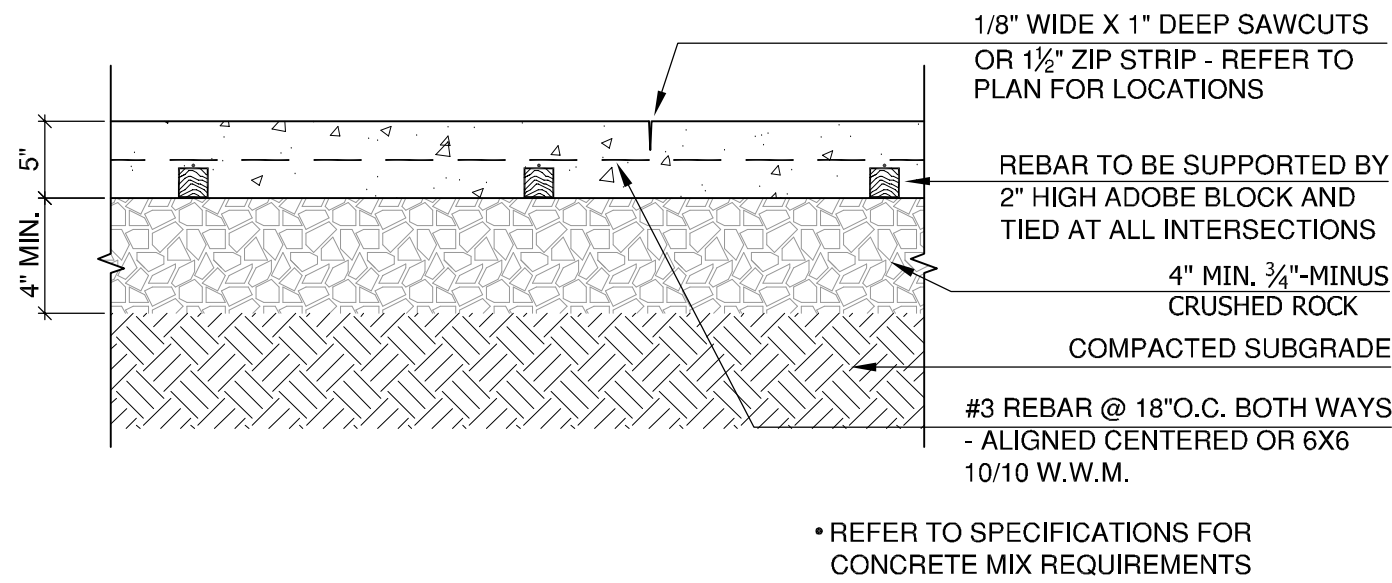
[illegible]

HEET NAME:  
SKATEPARK  
DETAILS & NOTES

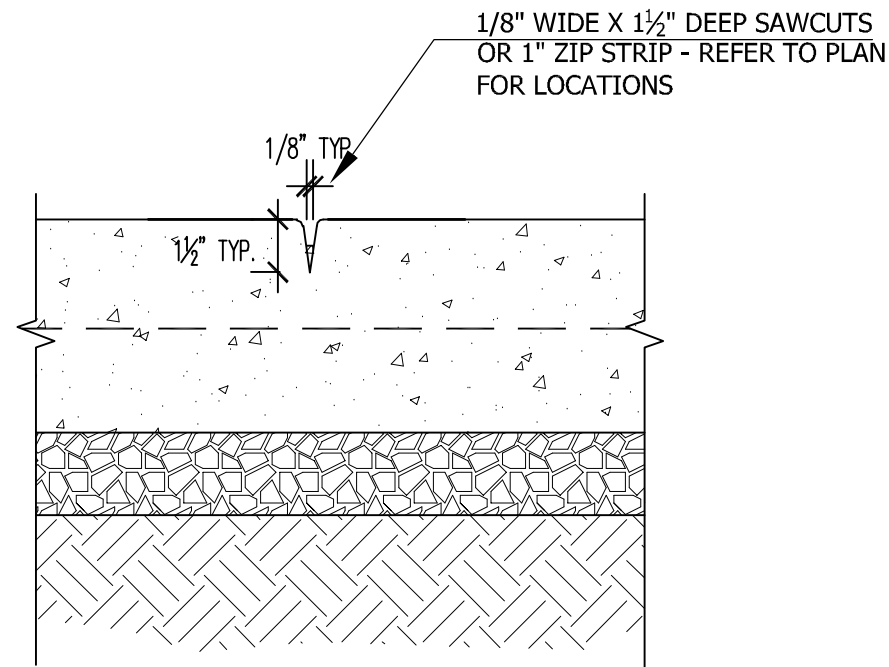
DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/16/2018
JOB NO.:	1707

HEET:

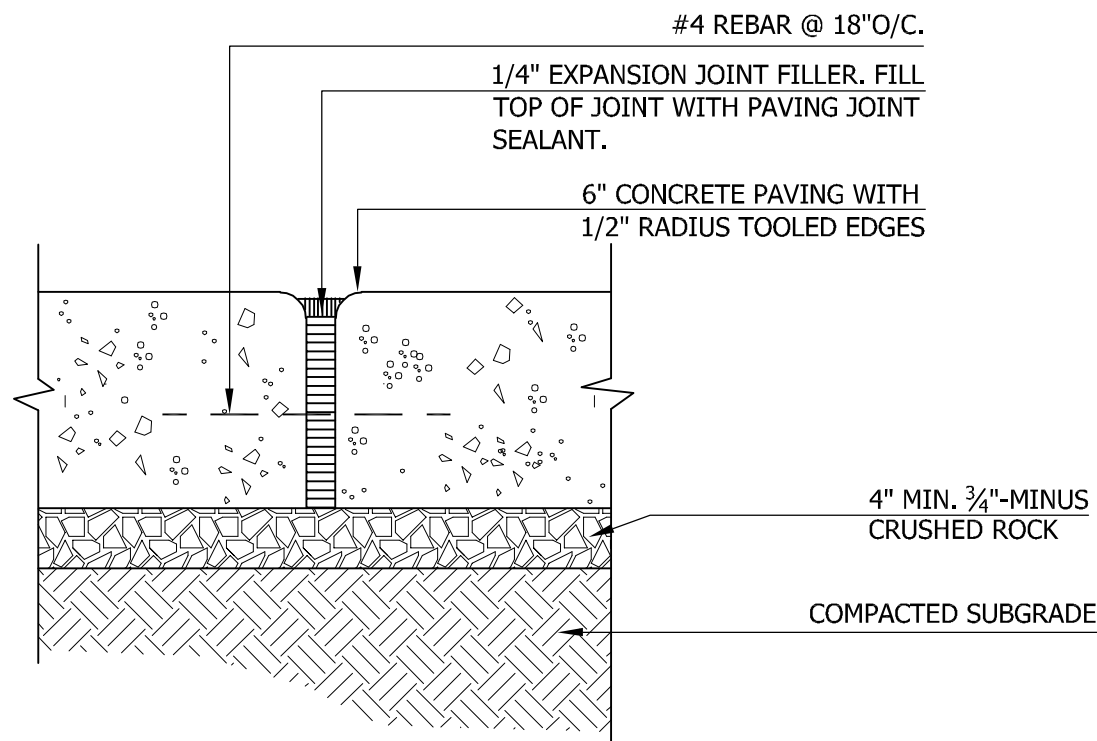




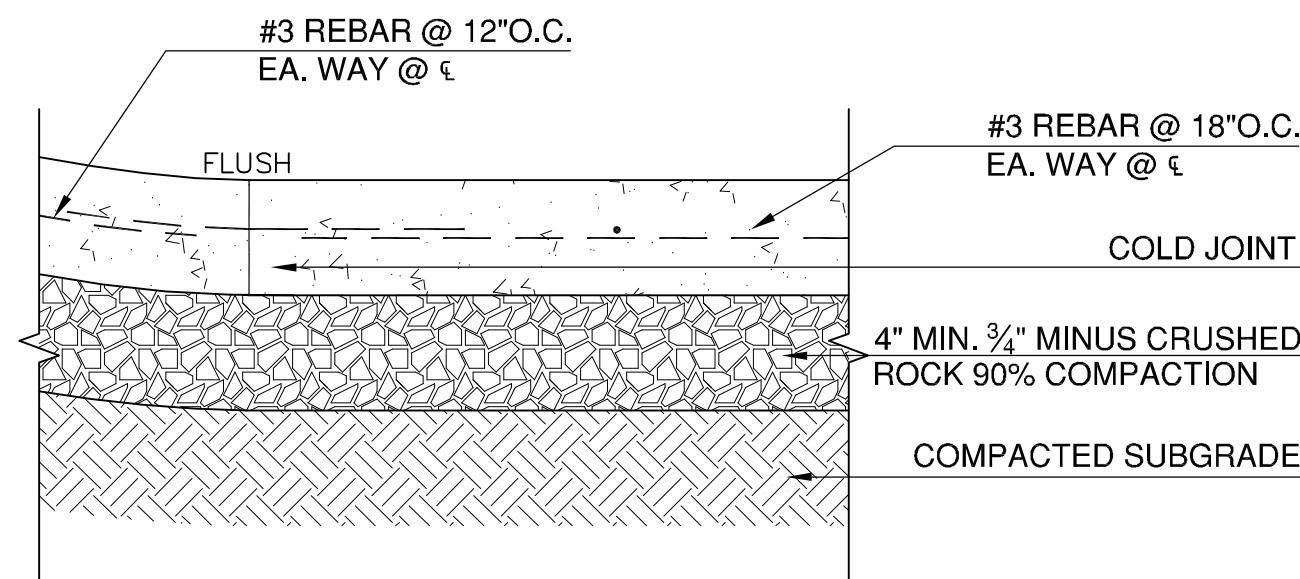
EE SP14 5" CONCRETE PAVING DETAIL N.T.S.



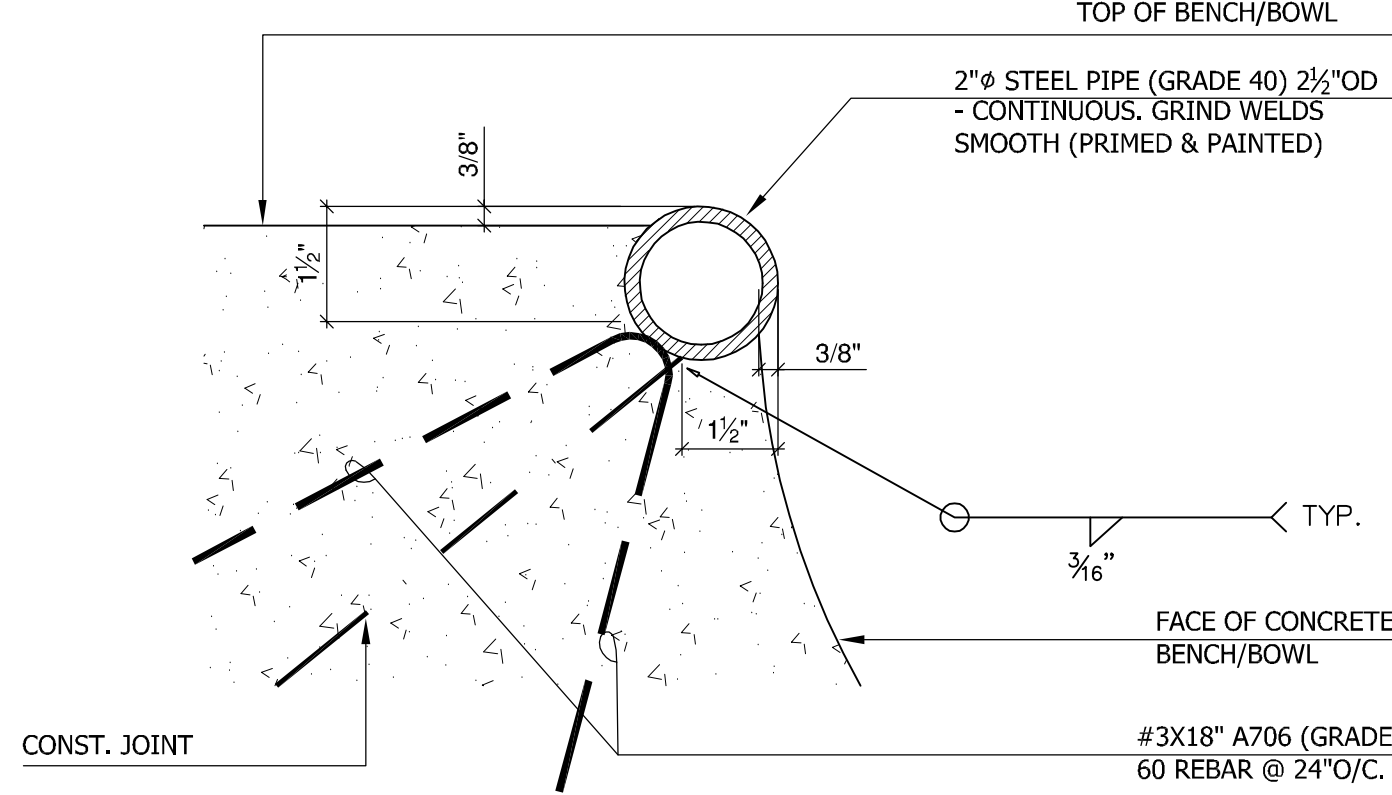
FF SP14 CONTROL JOINT, TYP. (CJ) N.T.S.



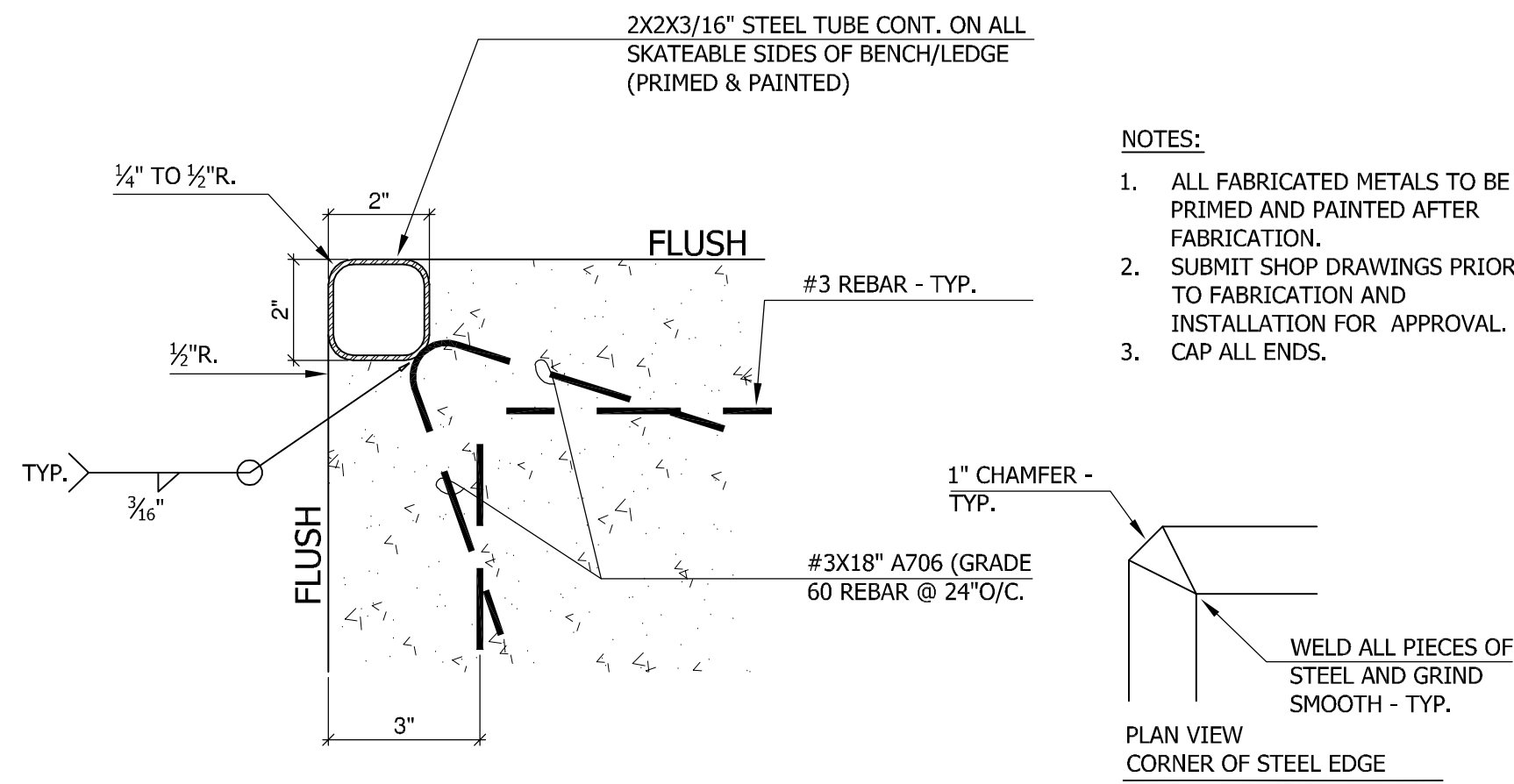
GG SP14 EXPANSION JOINT, (EJ) N.T.S.



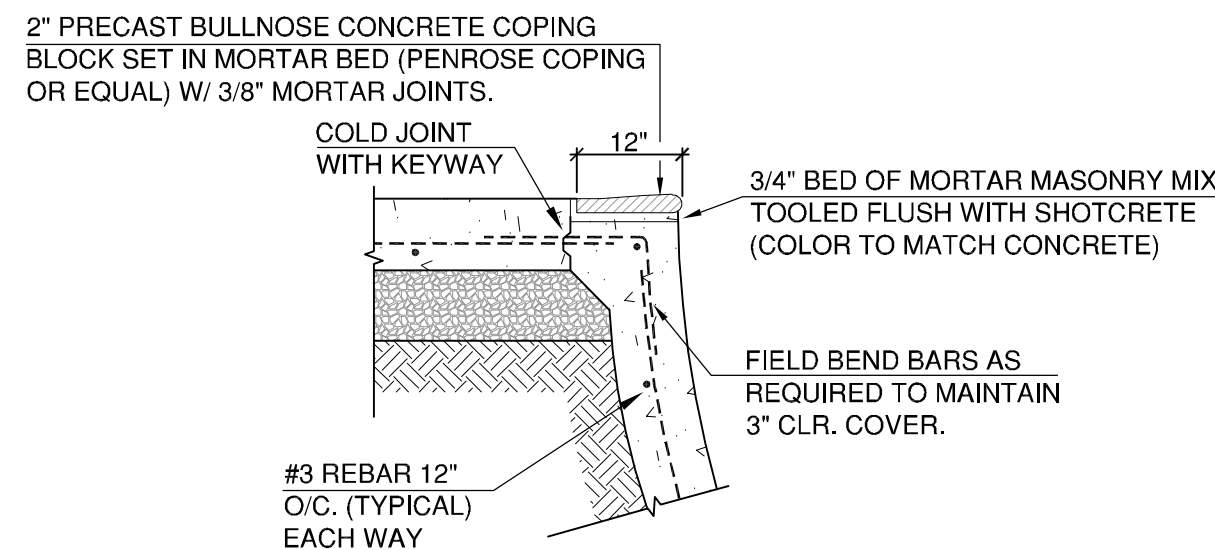
HH SP14 TOE CONNECTION DETAIL N.T.S.



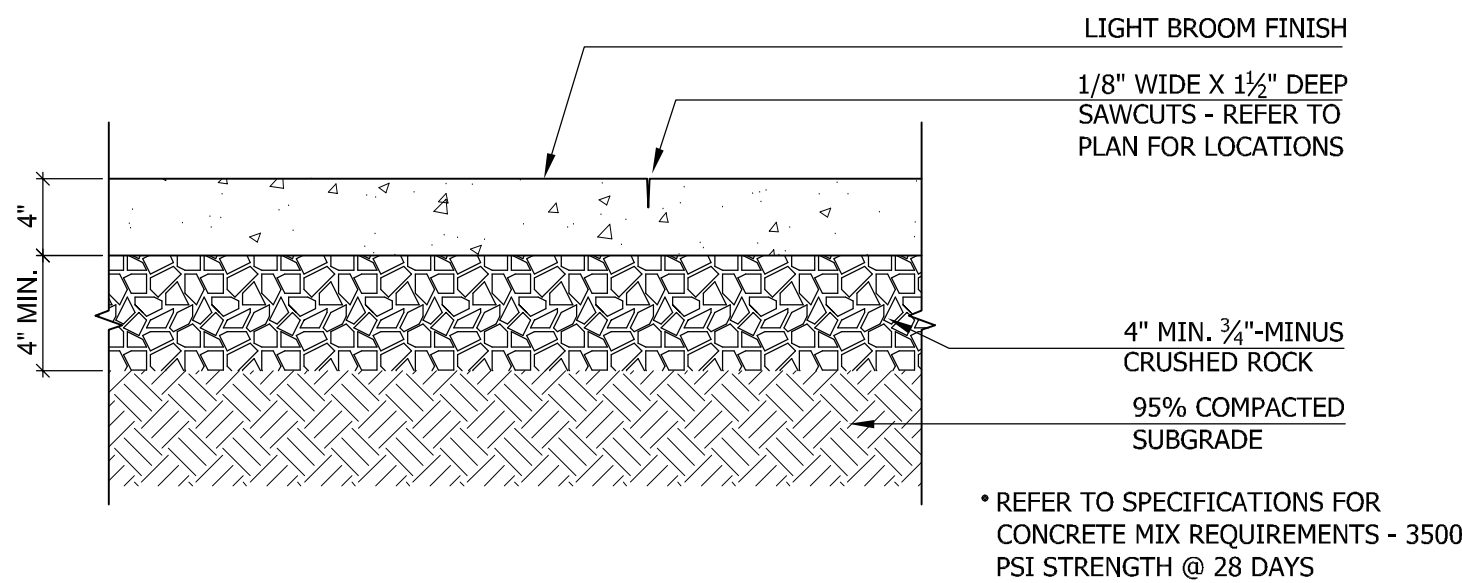
II SP14 STEEL COPING DETAIL N.T.S.



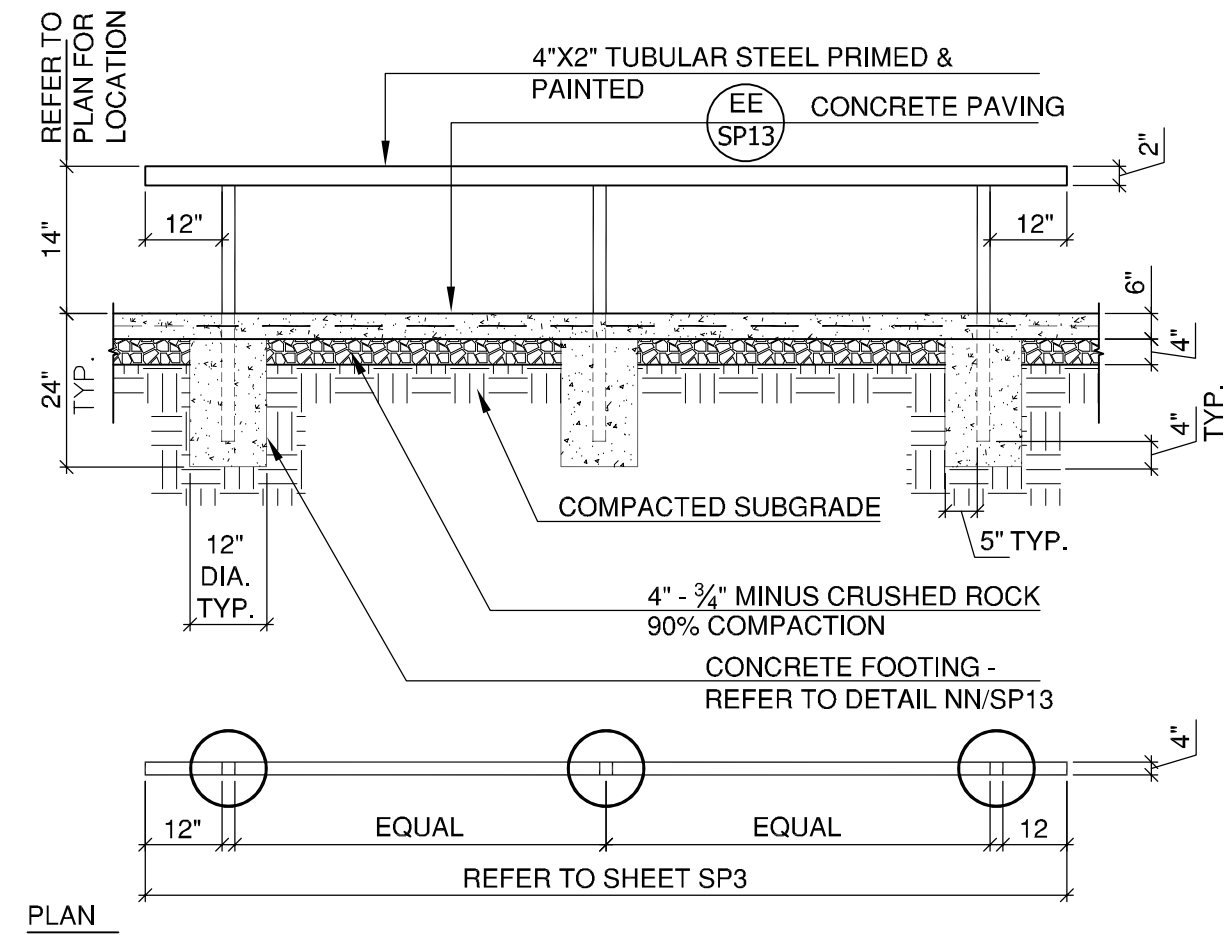
JJ SP14 STEEL EDGING DETAIL N.T.S.



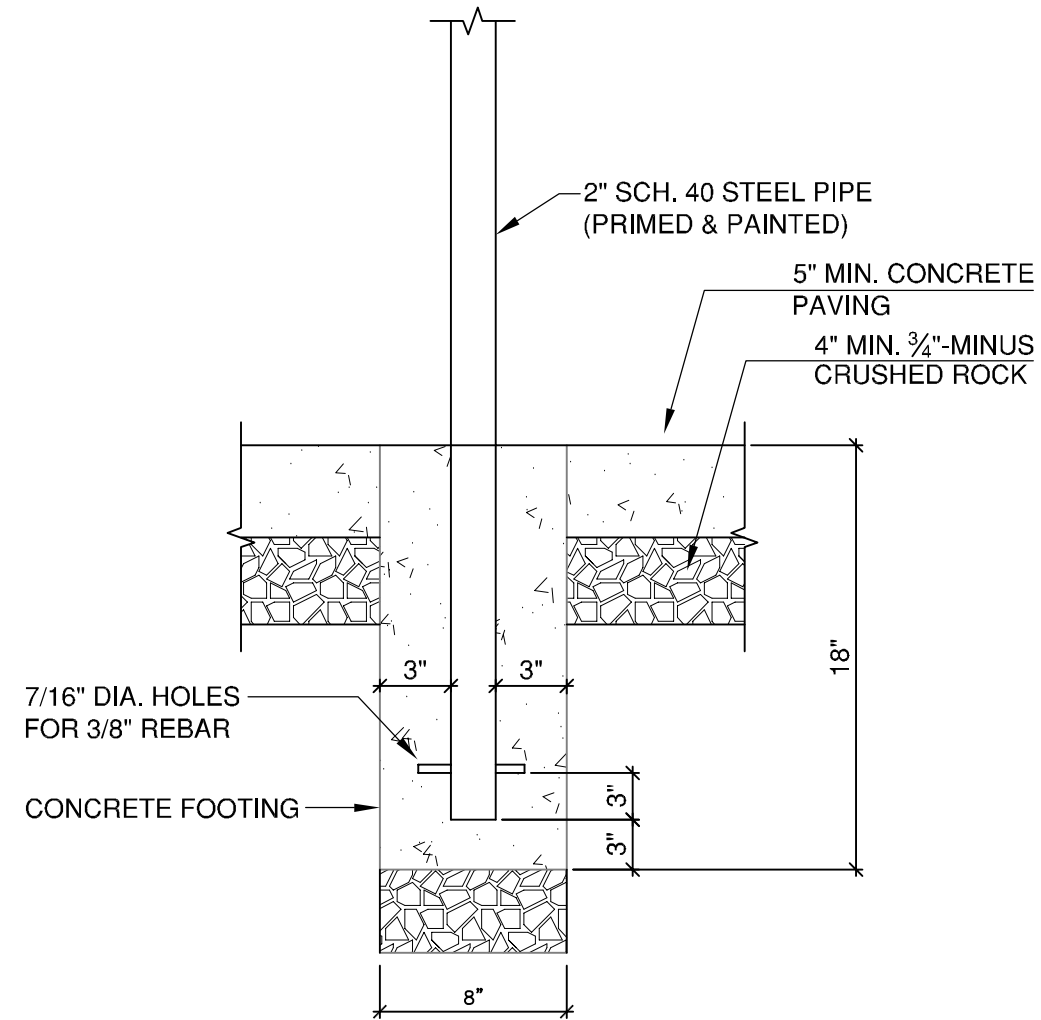
KK SP14 POOL COPING DETAIL N.T.S.



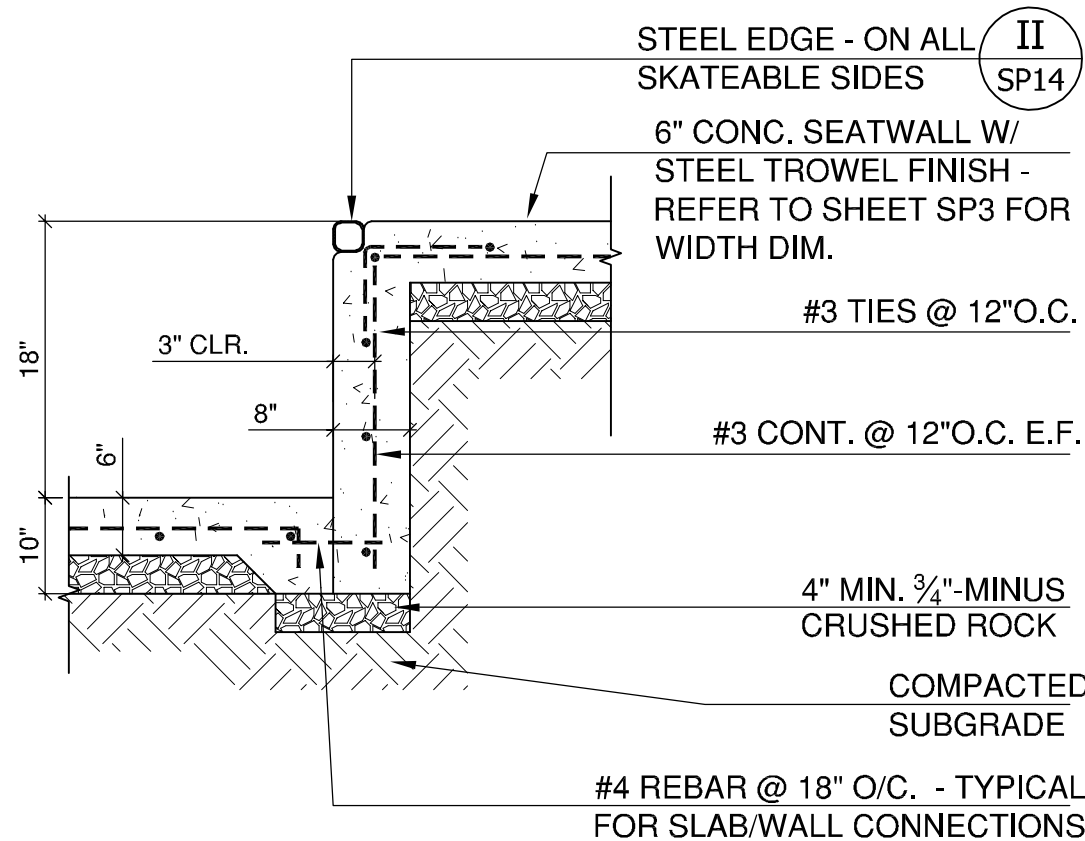
LL SP14 4" CONCRETE PAVING DETAIL N.T.S.



MM SP14 FLAT RAIL DETAIL N.T.S.



NN SP14 RAILING EMBEDMENT DETAIL N.T.S.



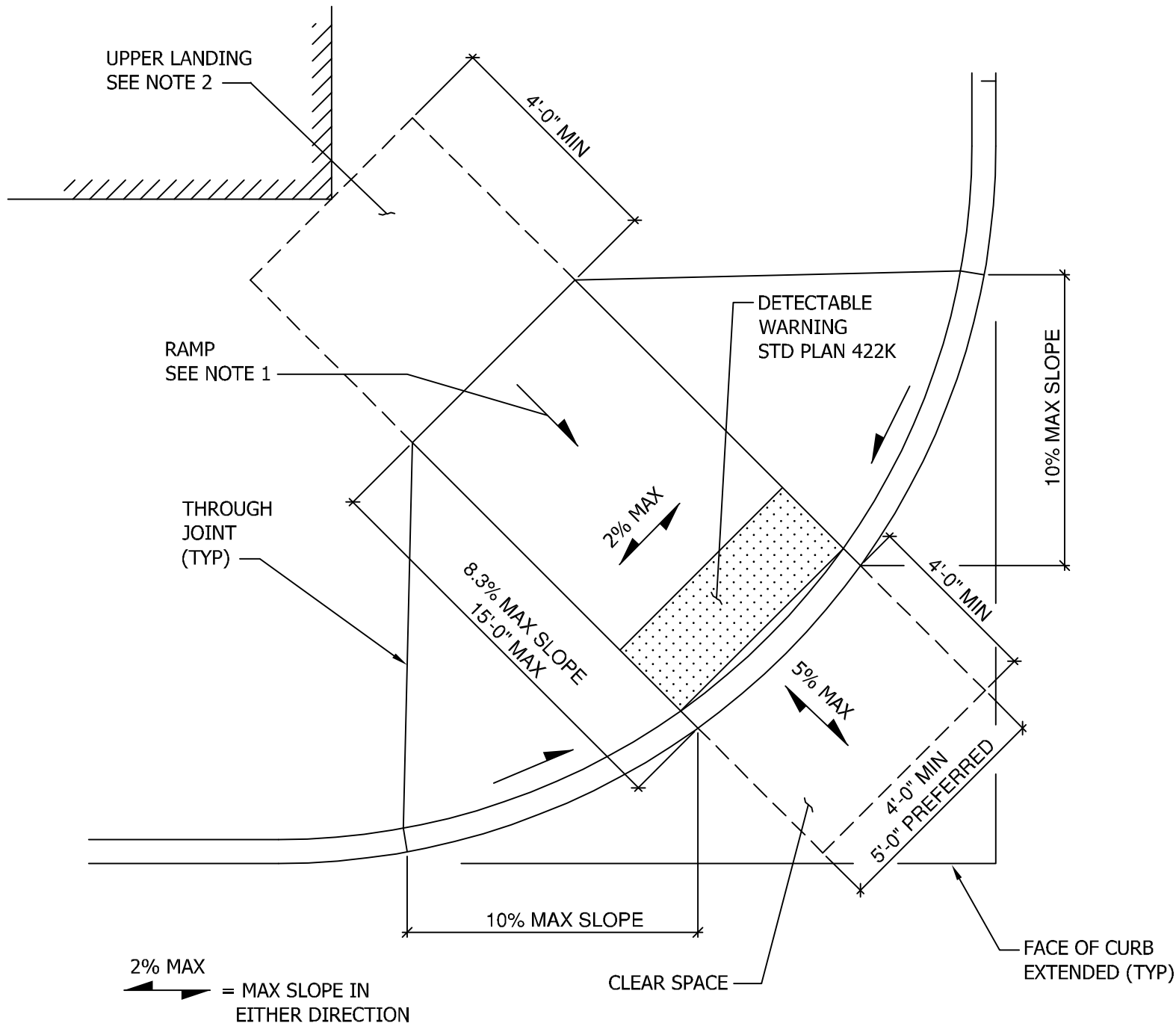
OO SP14 TYPICAL LEDGE DETAIL N.T.S.

REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
SKATEPARK  
DETAILS & NOTES

DRAWN BY: TAM  
CHECKED BY: TAM  
ISSUE DATE: 11/18/2018  
JOB NO.: 1707

SHEET:  
SP14  
OF 22  
100% CD SET



PP  
SP15

SHARED DIAGONAL PERPENDICULAR CURB RAMP  
(ALTERNATE NO. 1)

N.T.S.

NOT USED

- NOTES:
1. SHARED DIAGONAL PERPENDICULAR RAMPS SHALL NOT BE INSTALLED UNLESS ALL OTHER DESIGN OPTIONS ARE UNABLE TO BE CONSTRUCTED DUE TO EXISTING SITE CONSTRAINTS.
  2. RAMP CENTERLINE SHALL BE RADIAL/PERPENDICULAR TO THE ALIGNMENT OF THE FACE OF CURB.
  3. UPPER LANDING AT THE TOP OF THE CURB RAMP SHALL MATCH THE FULL WIDTH OF THE RAMP AND SHALL HAVE A MINIMUM DEPTH OF 4'-0". IF THE LANDING IS LIMITED AT THE BACK-OF-SIDEWALK BY A PERMANENT VERTICAL BARRIER, THE DEPTH OF THE TURNING SPACE SHALL BE 5'-0" MINIMUM, MEASURED PARALLEL TO THE RUN OF THE CURB RAMP. SLOPE ON THE LANDING SHALL BE BETWEEN 0.5% AND 2% IN ANY DIRECTION.
  4. CLEAR SPACE AT THE BOTTOM OF THE RAMP SHALL BE 4'-0" MINIMUM IN WIDTH AND SHALL EXTEND A MINIMUM OF 4'-0" BEYOND THE RAMP LOWER GRADE BREAK. THE CLEAR SPACE SHALL FALL WHOLLY WITHIN THE LEGAL CROSSWALK, MARKED OR UNMARKED. THE CLEAR SPACE SHALL FIT BEHIND LINES EXTENDING FROM THE FACE OF CURB RUNNING PARALLEL TO EACH ROADWAY. THERE IS NO ALLOWABLE EXEMPTION FOR MINIMUM CLEAR SPACE REQUIREMENTS AT SHARED DIAGONAL PERPENDICULAR CURB RAMPS.
  5. WINGS SHALL HAVE A MAXIMUM SLOPE OF 10%. WINGS SHALL HAVE A BRUSHED FINISH PARALLEL TO THE CURB. THE CONCRETE WALK THICKENED EDGE ALONG THE CURB SHALL CONTINUE THROUGH EACH WING.
  6. RAMP SURFACE SHALL HAVE A HEAVY BROOM BRUSHED SURFACE PARALLEL TO THE CURB.
  7. REFER TO GENERAL NOTES THIS SHEET.

1. TWO CURB RAMPS SHALL BE INSTALLED AT EACH CORNER UNLESS OTHERWISE DIRECTED BY ENGINEER. SHARED DIAGONAL PERPENDICULAR RAMPS SHALL NOT BE INSTALLED UNLESS ALL OTHER DESIGN OPTIONS ARE UNABLE TO BE CONSTRUCTED DUE TO EXISTING SITE CONSTRAINTS.
2. CURB RAMPS SHALL BE AS CLOSELY ALIGNED WITH THE SIDEWALK AND THE PEDESTRIAN STREET CROSSING SERVED AS POSSIBLE.
3. CURB RAMP SHALL BE CONSTRUCTED WITH COMPANION RAMP ON OPPOSITE SIDE OF THE ROADWAY WHERE NO RAMP IS PROVIDED UNLESS OTHERWISE DIRECTED BY ENGINEER.
4. RAMPS SHALL TYPICALLY HAVE A MAXIMUM RUNNING SLOPE OF 8.3% AND A MINIMUM WIDTH OF 4'-0" UNLESS OTHERWISE DIRECTED BY ENGINEER. THE CROSS SLOPE OF RAMPS SHALL BE MAXIMUM OF 2%. CURB RAMPS ARE NOT REQUIRED TO EXCEED A LENGTH OF 15 FEET UNLESS OTHERWISE DIRECTED BY ENGINEER.\*
5. GRADE BREAKS AT THE TOP AND THE BOTTOM OF CURB RAMP RUNS MUST BE PERPENDICULAR TO THE PATH OF TRAVEL. CURB RAMP RUNS ARE DEFINED BY RUNNING SLOPES THAT EXCEED 5% BUT ARE NO MORE THAN 8.3%. SURFACES ABUTTING AT CURB RAMP GRADE BREAKS SHALL BE FLUSH.
6. AREAS ADJACENT TO CURB RAMPS OR CURB RAMP LANDINGS USABLE BY PEDESTRIANS SHALL COMPLY WITH STANDARD PLAN SIDEWALK SLOPE LIMITS OR A CURB RAMP WING MUST BE PROVIDED AS SHOWN IN THE APPLICABLE CURB RAMP DETAILS. THE INSTALLATION OF CURBED EDGES ARE NOT REQUIRED BUT MAY BE USED AT THE SIDES OR BACKS OF CURB RAMPS OR CURB RAMP LANDING WHERE THE ADJACENT SURFACE IS LANDSCAPED OR OTHERWISE NOT USABLE BY PEDESTRIANS.
7. THE COUNTER SLOPE OF THE GUTTER OR THE STREET AT THE BOTTOM OF CURB RAMP RUNS SHALL BE 5% MAXIMUM. IF TURNING OR CHANGE OF ORIENTATION IS REQUIRED WITHIN THE PEDESTRIAN CROSSING AT THE BOTTOM OF CURB RAMP RUNS, THE SLOPE SHALL BE 2% MAXIMUM IN ANY DIRECTION FOR A MINIMUM 4'-0" WIDTH x 4'-0" DEPTH MEASURED FROM THE RAMP BOTTOM GRADE BREAK.
8. CURB RAMPS WITH RAMP RUNS THAT TERMINATE AT THE ENTRANCE TO THE PEDESTRIAN STREET CROSSING SHALL HAVE A CLEAR SPACE AT THE BOTTOM OF THE RAMP 4'-0" MINIMUM IN WIDTH AND SHALL EXTEND A MINIMUM 4'-0" BEYOND THE RAMP LOWER GRADE BREAK. THE CLEAR SPACE SHALL FALL WHOLLY WITHIN THE LEGAL CROSSWALK, MARKED OR UNMARKED.
9. DETECTABLE WARNING SHALL BE PROVIDED AT CURB RAMPS AND AT LOCATIONS WHERE THE SIDEWALK AND ROADWAY ARE FLUSH. THE DETECTABLE WARNING SURFACE SHALL HAVE A TRUNCATED DOME PATTERN AS SHOWN, WITH A MINIMUM DEPTH OF 2'-0", AND SHALL BE PLACED AT THE BACK OF CURB BUT NO MORE THAN 8" FROM THE FACE OF CURB FOR MONOLITHIC CURBS OR ATYPICAL CURB WIDTHS. DETECTABLE WARNING SHALL MATCH THE WIDTH OF THE RAMP RUN OR THE OPENING WHERE THE SIDEWALK AND ROADWAY ARE FLUSH. THE TRUNCATED DOMES ON THE DETECTABLE WARNING SURFACE SHOULD ALIGN WITH THE CURB RAMP RUN OR THE DIRECTION OF TRAVEL. DOMES MAY BE ON A RADIAL GRID PATTERN WHERE THE DETECTABLE WARNING SURFACE IS PLACED AT CURB RADII.
10. DETECTABLE WARNING COLOR SHALL BE "FEDERAL SAFETY YELLOW", UNLESS OTHERWISE DIRECTED BY ENGINEER.
11. DETECTABLE WARNING SURFACES SHOULD GENERALLY NOT BE CUT OR ALTERED TO FIT UNLESS THERE IS NO ALTERNATIVE AVAILABLE. IF REQUIRED, CUT OR ALTER THE DETECTABLE WARNING SURFACE PER THE MANUFACTURER'S DIRECTIONS. DETECTABLE WARNING SURFACES PLACED AT CURB RADII SHALL MATCH THE CURB RADII WITHOUT GAPS OR INCONSISTENCIES IN PLACEMENT.
12. AVOID LOCATED HANDHOLES, UTILITY CASTINGS, OR ANY OTHER OBSTRUCTIONS IN THE CURB RAMP RUN(S) OR LANDING(S). IF NECESSARY DUE TO EXISTING CONSTRAINTS, HANDHOLES, UTILITY CASTINGS, OR OTHER OBSTRUCTIONS MAY BE LOCATED WITHIN A RAMP RUN, LANDING, OR TURNING SPACE BUT MUST ADHERE TO SURFACE REQUIREMENTS. LEVEL CHANGES BETWEEN SURFACES MUST NOT EXCEED 1/4" OR 1/2" WITH A 1:2 BEVEL. GAPS BETWEEN SURFACES OR GRATINGS MAY NOT EXCEED 1/2". SURFACES MUST BE FIRM, STABLE, AND SLIP RESISTANT.
13. HANDHOLES, UTILITY CASTINGS, OR OTHER OBSTRUCTIONS SHALL NOT REDUCE THE REQUIRED DEPTH OF DETECTABLE WARNING.
14. POLES, HYDRANTS AND OTHER ABOVE GROUND OBSTRUCTIONS SHALL HAVE A MINIMUM LATERAL CLEARANCE OF 1'-0" FROM THE UPPER LANDING AND RAMP SURFACE.
15. ALL CHANGES IN LEVEL ACROSS JOINTS SHALL BE FLUSH. ANY DIFFERENCE IN ELEVATION OF 3/16 INCH OR GREATER SHALL BE REPAIRED OR REPLACED.
16. CURB RAMPS SHALL BE DESIGNED AND CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE ON RAMP SURFACES. GUTTER FLOW LINE SHALL BE SURVEYED BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ENSURE PONDING OF WATER SHALL NOT OCCUR AT THE BOTTOM OF CURB RAMPS OR AT CURB RAMP LOWER LANDINGS.
17. ALL SLOPE GRADES SHALL BE MEASURED OFF THE HORIZON-LINE. IF EXISTING SITE CONDITIONS CONFLICT WITH OBTAINING GRADES SHOWN, THE DESIGNER / CONTRACTOR SHALL MAKE MINIMUM ADJUSTMENTS TO THE GRADES SHOWN TO MEET EXISTING SITE CONDITIONS; ADJUSTMENTS ARE SUBJECT TO ENGINEER APPROVAL.

\* IT IS GENERALLY PREFERRED THAT CURB RAMPS, CURB RAMP LANDINGS, AND ASSOCIATED FEATURES NOT BE DESIGNED TO THE MINIMUM OR MAXIMUM ALLOWABLE DIMENSION AND/OR SLOPE TO ALLOW FOR A LIMITED MARGIN OF ERROR DURING CONSTRUCTION.

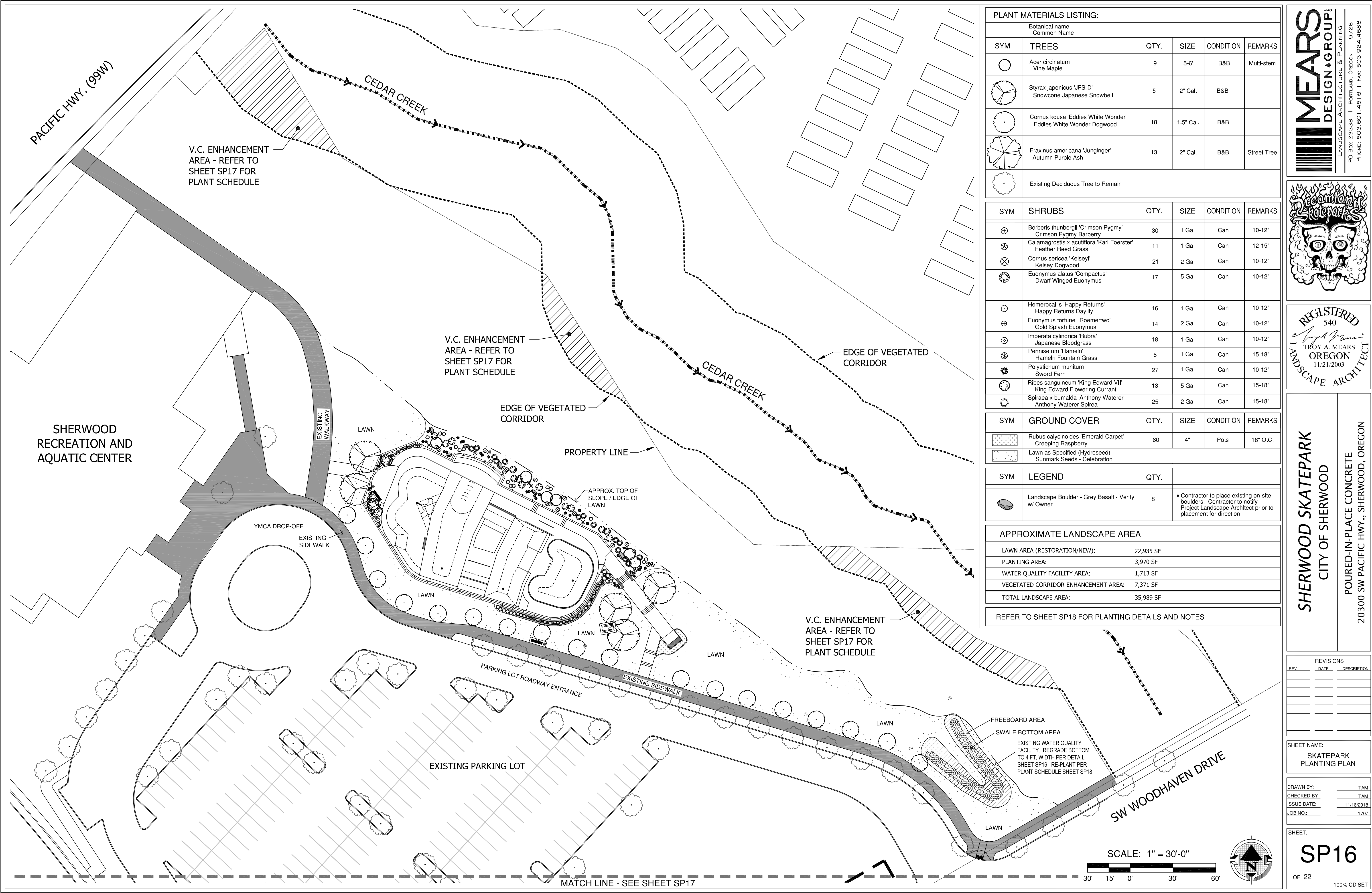


REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
ALTERNATE NO. 1  
DETAILS & NOTES

DRAWN BY: TAM  
CHECKED BY: TAM  
ISSUE DATE: 11/18/2018  
JOB NO.: 1707





PLANT MATERIALS LISTING:					
Botanical name Common Name					
SYM	TREES	QTY.	SIZE	CONDITION	REMARKS
	Acer circinatum Vine Maple	9	5-6'	B&B	Multi-stem
	Styrax japonicus 'JFS-D' Snowcone Japanese Snowbell	5	2" Cal.	B&B	
	Cornus kousa 'Eddies White Wonder' Eddies White Wonder Dogwood	18	1.5" Cal.	B&B	
	Fraxinus americana 'Junginger' Autumn Purple Ash	13	2" Cal.	B&B	Street Tree
	Existing Deciduous Tree to Remain				

SYM	SHRUBS	QTY.	SIZE	CONDITION	REMARKS
	Berberis thunbergii 'Crimson Pygmy' Crimson Pygmy Barberry	30	1 Gal	Can	10-12"
	Calamagrostis x acutiflora 'Karl Foerster' Feather Reed Grass	11	1 Gal	Can	12-15"
	Cornus sericea 'Kelsey' Kelsey Dogwood	21	2 Gal	Can	10-12"
	Euonymus alatus 'Compactus' Dwarf Winged Euonymus	17	5 Gal	Can	10-12"

	Hemerocallis 'Happy Returns' Happy Returns Daylily	16	1 Gal	Can	10-12"
	Euonymus fortunei 'Roemertwo' Gold Splash Euonymus	14	2 Gal	Can	10-12"
	Imperata cylindrica 'Rubra' Japanese Bloodgrass	18	1 Gal	Can	10-12"
	Pennisetum 'Hameln' Hameln Fountain Grass	6	1 Gal	Can	15-18"
	Polystichum munitum Sword Fern	27	1 Gal	Can	10-12"
	Ribes sanguineum 'King Edward VII' King Edward Flowering Currant	13	5 Gal	Can	15-18"
	Spiraea x bumalda 'Anthony Waterer' Anthony Waterer Spiraea	25	2 Gal	Can	15-18"

SYM	GROUND COVER	QTY.	SIZE	CONDITION	REMARKS
	Rubus calycinoides 'Emerald Carpet' Creeping Raspberry	60	4"	Pots	18" O.C.
	Lawn as Specified (Hydroseed) Sunmark Seeds - Celebration				

SYM	LEGEND	QTY.	
	Landscape Boulder - Grey Basalt - Verify w/ Owner	8	• Contractor to place existing on-site boulders. Contractor to notify Project Landscape Architect prior to placement for direction.

APPROXIMATE LANDSCAPE AREA	
LAWN AREA (RESTORATION/NEW):	22,935 SF
PLANTING AREA:	3,970 SF
WATER QUALITY FACILITY AREA:	1,713 SF
VEGETATED CORRIDOR ENHANCEMENT AREA:	7,371 SF
TOTAL LANDSCAPE AREA:	35,989 SF
REFER TO SHEET SP18 FOR PLANTING DETAILS AND NOTES	

LANDSCAPE ARCHITECTURE & PLANNING  
PO BOX 23338 | PORTLAND, OREGON | 97281  
PHONE: 503.601.4516 | FAX: 503.924.4688

SKATEPARK

REGISTERED  
540  
TROY A. MEARS  
OREGON  
11/21/2003  
LANDSCAPE ARCHITECT

SHERWOOD SKATEPARK  
CITY OF SHERWOOD  
POURED-IN-PLACE CONCRETE  
20300 SW PACIFIC HWY., SHERWOOD, OREGON

REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
SKATEPARK  
PLANTING PLAN

DRAWN BY: TAM

CHECKED BY: TAM

ISSUE DATE: 11/18/2018

JOB NO.: 1707

SHEET:  
**SP16**  
OF 22  
100% CD SET



MATCH LINE - SEE SHEET SP16

EXISTING PARKING LOT

ALTERNATE NO. 1

LAWN

LAWN

SW WOODHAVEN DRIVE

SW SUNSET BLVD.

PLANT TABLE - VEGETATED CORRIDOR PLANTING AREAS

VEGETATED CORRIDOR AREA "GOOD CONDITION" ENHANCEMENT

<div>7,371 SF</div>	Minimum Species Composition	Plant Category	Light Requirements	Planting Size	Minimum Plant Height
Common Name (Botanical name)					
Trees					
Douglas Fir ( <i>Pseudotsuga menziesii</i> )	50	Tree	Sun	2 gal.	2'
Bigleaf Maple ( <i>Acer macrophyllum</i> )	25	Tree	Part	2 gal.	2'
Vine Maple ( <i>Acer circinatum</i> )	50	Sm. Tree	Shade	2 gal.	2'
Pacific Dogwood ( <i>Cornus nuttallii</i> )	25	Sm. Tree	Part	2 gal.	2'
Tree subtotal	150				

Shrubs					
Saskatoon Serviceberry ( <i>Amelanchier alnifolia</i> )	25	Shrub	Sun	1 gal.	12"
Tall Oregon Grape ( <i>Mahonia aquifolium</i> )	50	Shrub	Sun	1 gal.	12"
Cascade Oregon Grape ( <i>Mahonia nervosa</i> )	50	Shrub	Sun	1 gal.	12"
Snowberry ( <i>Symphoricarpos albus</i> )	50	Shrub	Part	1 gal.	12"
Indian Plum ( <i>Oemleria cerasiiformis</i> )	25	Shrub	Shade	1 gal.	12"
Red-flowering currant ( <i>Ribes sanguineum</i> )	50	Shrub	Part	1 gal.	12"
Shrub subtotal	250				

Herbaceous					
Salal ( <i>Gaultheria shallon</i> )	50	Herb	Sun	1 gal.	
False lily of the valley ( <i>Marianthemum dilatatum</i> )		Herb	Sun	4" pot	
Sword Fern ( <i>Polystichum munitum</i> )	100	Herb	Sun	1 gal.	

Seeding					
Sunmark Seeds - Woodland Blend	as needed in bare areas	Seed			

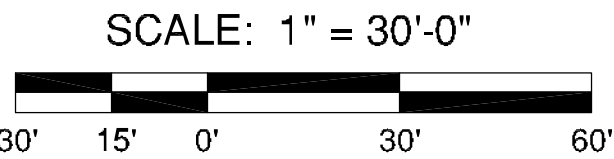
Vegetated Corridor Requirements:

- All invasive, non-native or noxious plant material are to be removed.  
Methods for removal and control of invasive / non-naïve and/or noxious plants are to follow strategies as outlined within the CWS IVAM Guidance manual. The subject site is to employ manual / mechanical management strategies and pesticide management strategies throughout maintenance period or until healthy stand of desirable vegetation is established.
- Preserve site's existing native vegetation to the maximum extent practicable.  
Every effort shall be made to protect a site's existing native vegetation. Native vegetation along Sensitive Areas and Vegetated Corridors shall be retained to the maximum extent practicable.
- Replanting / Enhancement as follows:
  - Refer to plant table and plan for plant species, location, distribution, quantities, size, condition and requirements.
  - Per CWS Design and Construction Standards, Appendix A, Quantities for Vegetated Corridors and Sensitive Areas; Groundcover = Plant and Seed to achieve 100% aerial coverage.
  - A native seed mix has been specified for the buffer area only. All plants to be pit planted with additional organic matter if required but no traditional fertilizer is necessary. Plant placement shall be consistent with the form of the naturally occurring plant community. Shrubs shall be placed in singles or clusters of the same species to provide a natural planting scheme.
- Plant installation requirements. Permittee is responsible for installation of site planting as specified. All trees and shrubs planted in the upland area are to be mulched a minimum of three inches in depth and 18 inches in dia. Appropriate mulches include those made from composted leaves or bark that have not been chemically treated. Temporary irrigation will be provided and used during the two year maintenance period.
- Monitoring and maintenance. Permittee is responsible for monitoring and maintaining the site. All new plant material is to be tagged. The removal of non-native, invasive weeds is necessary throughout the two year maintenance period, or until a healthy stand of desirable vegetation is established. The site is to be monitored a min. of two times per year, by June 1 and September 30. If at any time the landscaping falls below the 80% survival level, the owner shall reinstall all deficient planting at the next appropriate planting opportunity and the two year maintenance period shall begin again from the date of replanting.
- Permittee is required to provide and install a temporary irrigation system to maintain vegetative corridor plant establishment during the monitoring and maintenance period. Refer to irrigation industry best practices and standards for acceptable design/build practices. Landscape Contractor to provide irrigation as-built record drawing upon completion and acceptance of irrigation system.

Permittee: City of Sherwood Public Works, Craig Sheldon (503) 925-2310

REFER TO SHEET SP18 FOR PLANTING DETAILS AND NOTES

REFER TO SHEET SP16 FOR PLANT MATERIAL LISTING/SCHEDULE



MEARS

DESIGN+GROUP

LANDSCAPE ARCHITECTURE & PLANNING  
PO BOX 23336 | PORTLAND, OREGON | 97281  
PHONE: 503.601.4516 | FAX: 503.924.4688



REGISTERED  
540

TROY A. MEARS  
OREGON  
11/21/2003

LANDSCAPE ARCHITECT

SHERWOOD SKATEPARK  
CITY OF SHERWOOD

POURED-IN-PLACE CONCRETE  
20300 SW PACIFIC HWY., SHERWOOD, OREGON

REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:

SKATEPARK  
PLANTING PLAN

DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/16/2018
JOB NO.:	1707

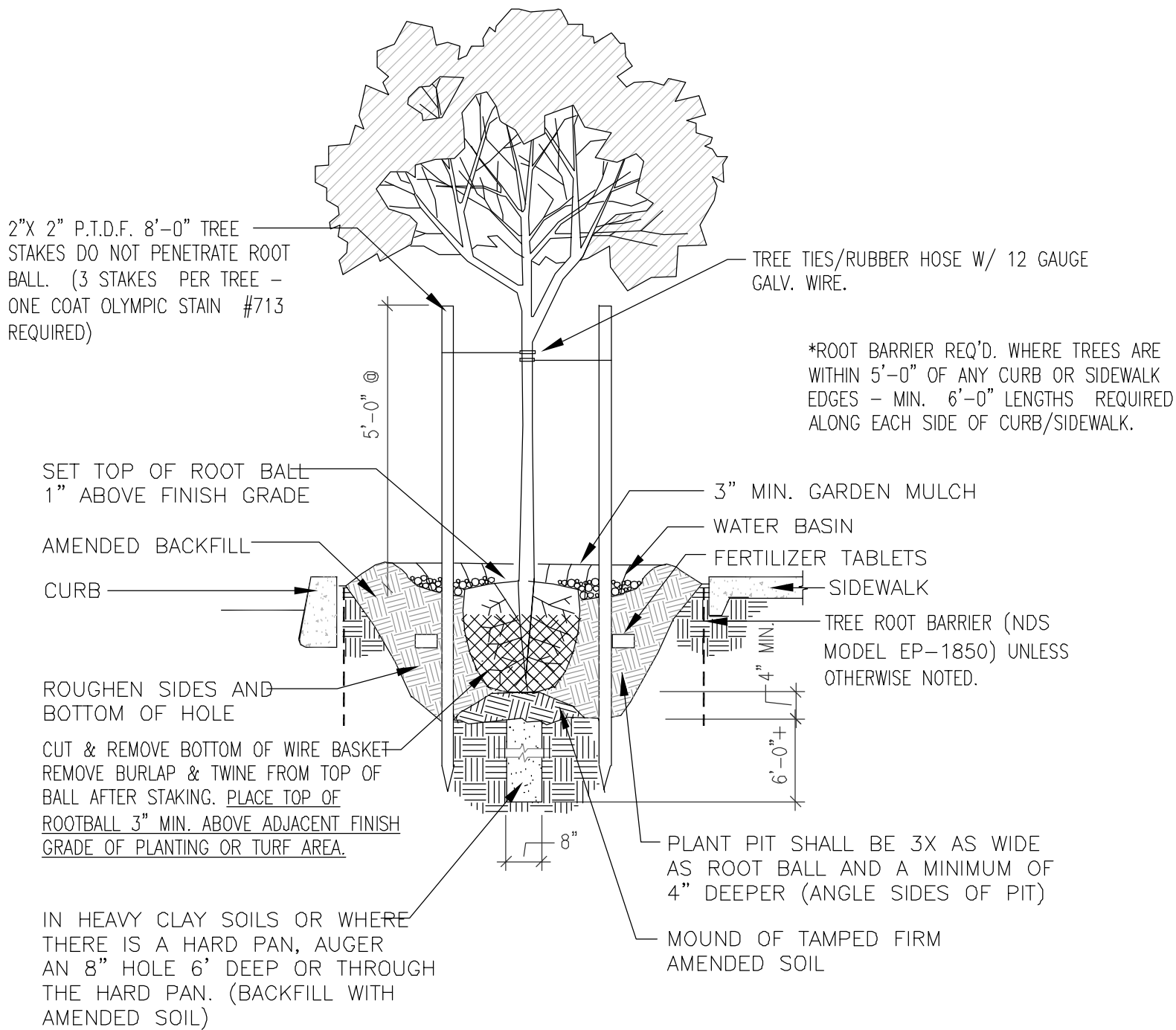
SHEET:

SP17

OF 22

100% CD SET



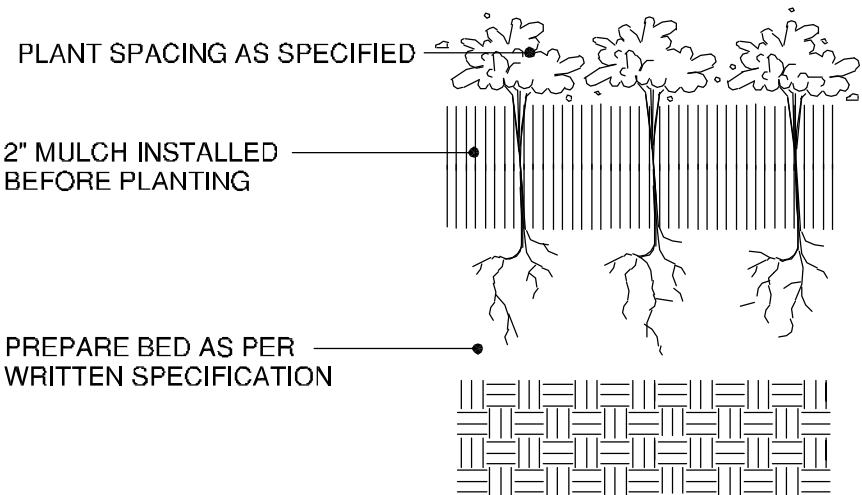
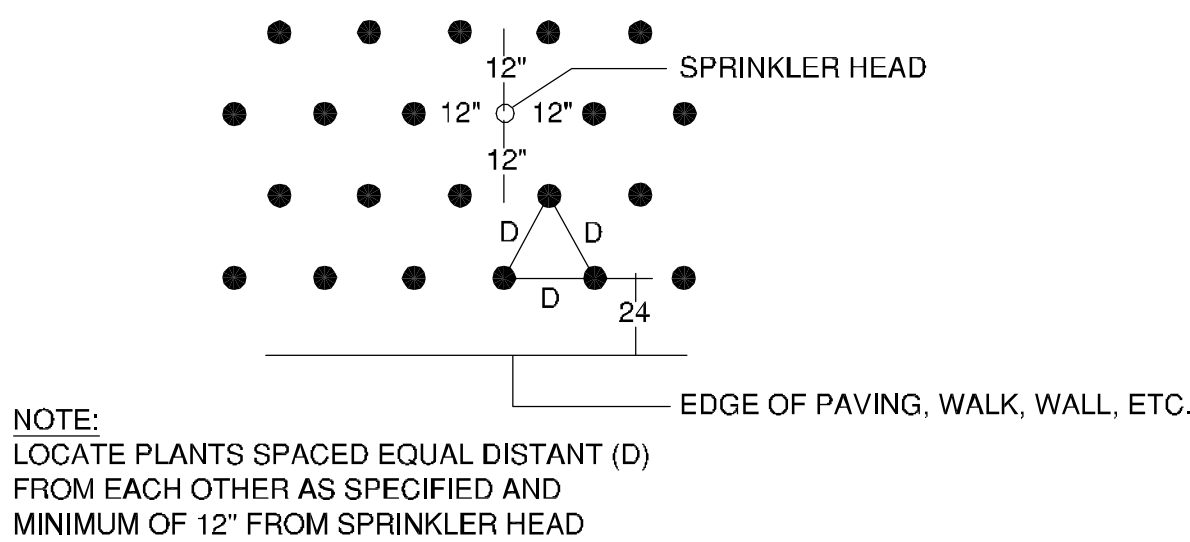


TREE PLANTING DETAIL

N.T.S.

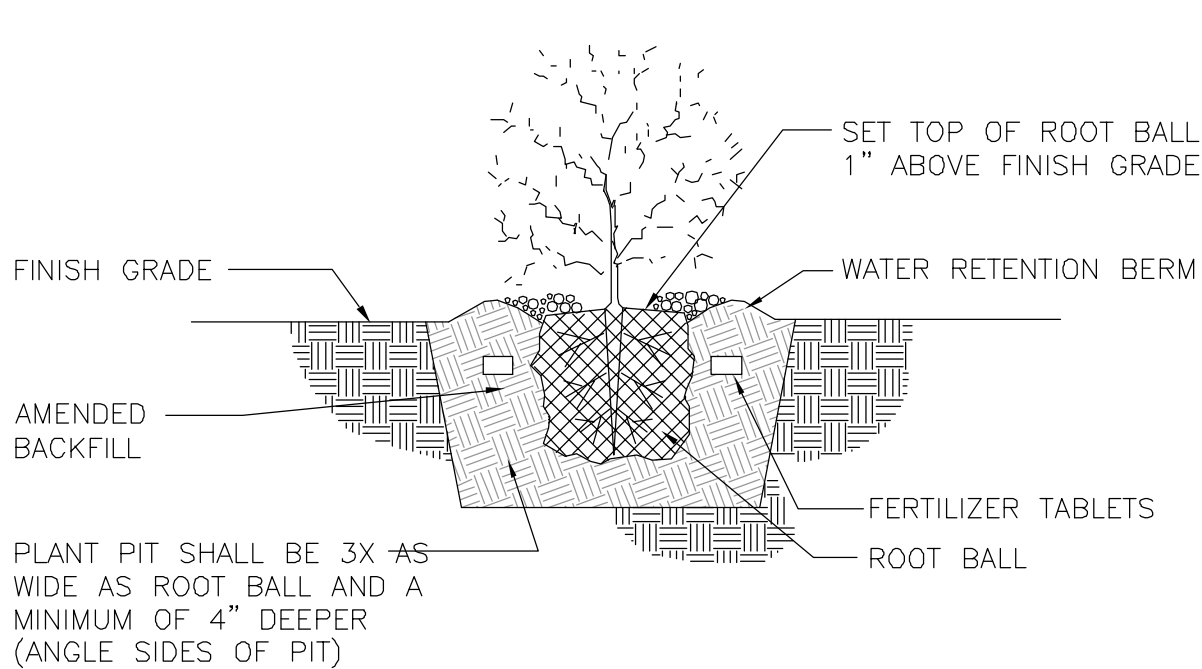
TYPICAL PLANTING NOTES:

- B&B stock may be substituted with container stock of equal grade.
- Container stock may be substituted with B&B stock of equal grade.
- Plant material shall conform with American Standard for Nursery Stock, ANSI Z60.1, 2004 edition.
- All trees shall be branched.
- Refer to project technical specification for topsoil requirement. All planting beds shall have a minimum of 18 inches topsoil. Re-use of existing topsoil is recommended, but must meet specifications.
- Garden mulch all planting beds with 3" min. Layer of specified garden mulch.
- In the event of a discrepancy between this material listing and the drawings, the drawings shall govern the plant species and quantities required.
- In the event of question or lack of clarity on drawings, Landscape Contractor is to call Landscape Architect before proceeding.
- Landscape contractor is to notify Landscape Architect prior to installation of plant material to approve final placement.
- Landscape Contractor to verify plant material quantities.
- Contractor will provide a one year warranty on all provided & installed plant material from date of final approval by owner's representative.



GROUNDCOVER PLANTING DETAIL

N.T.S.

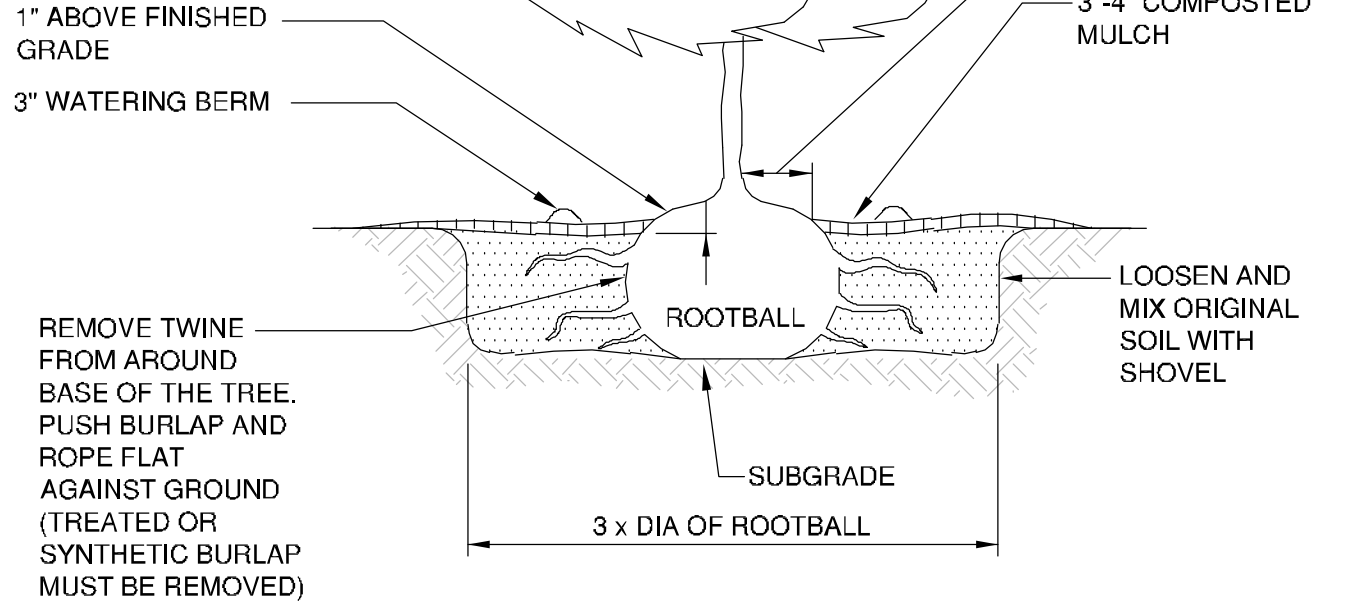


SHRUB PLANTING DETAIL

N.T.S.

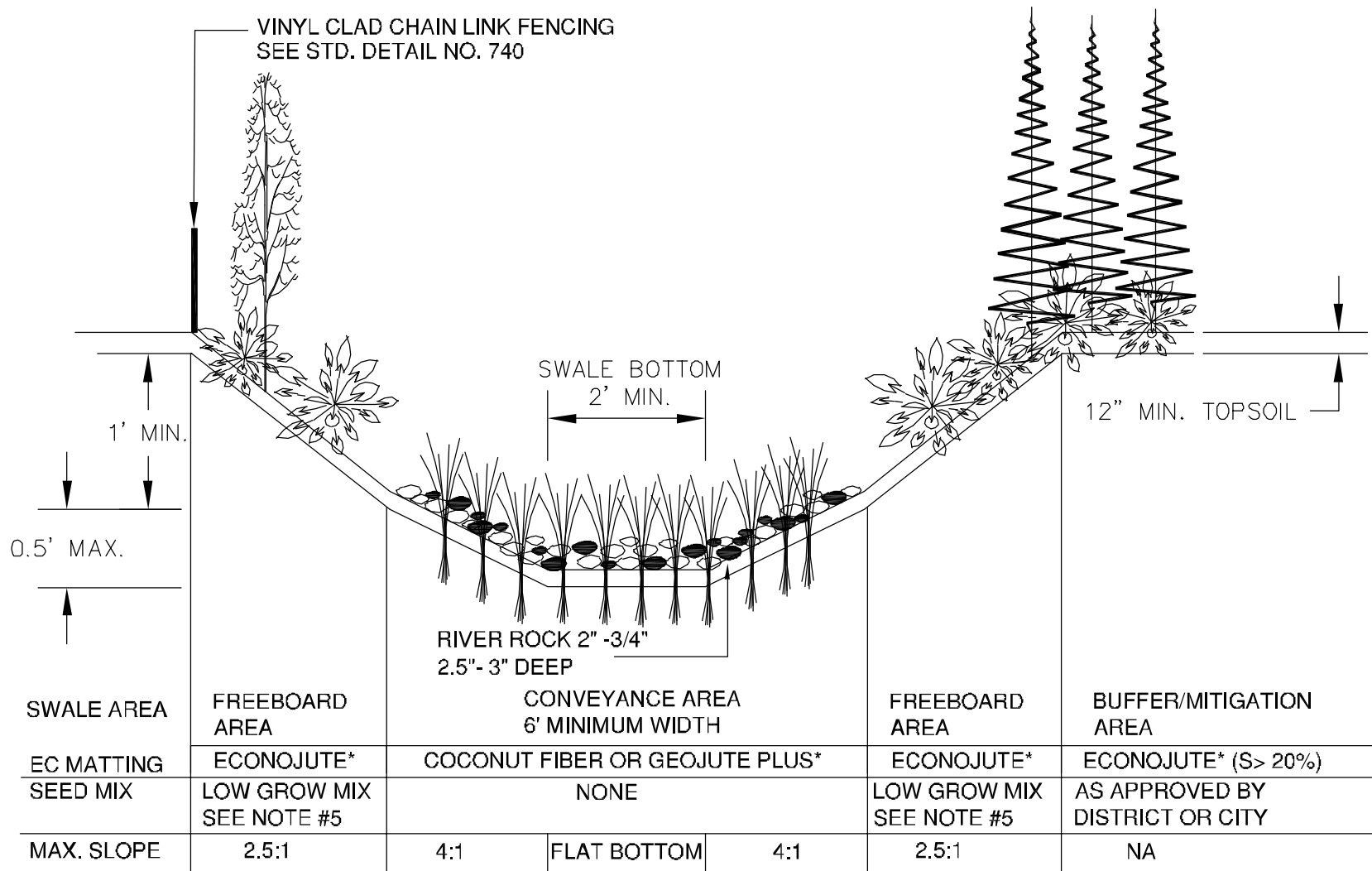
NO FERTILIZER TABLETS REQUIRED FOR VEGETATED CORRIDOR PLANTINGS.

NOTE: IF TREE IS CONTAINER GROWN STOCK, BREAK ROOT BALL APART BEFORE PLACING IN PLANTING HOLE. IF PLANT IS ROOT BOUND MAKE A VERTICAL CUT THROUGH THE LOWER 1/4 OF THE SOIL MASS. PULL OUT AND STRAIGHTEN LARGE, CIRCLING ROOTS.



TREE PLANTING-  
CONTAINER/ BURLAPPED

N.T.S.



NOTES:

- REFER TO APPENDIX A, CWS DESIGN & CONSTRUCTION STANDARDS, FOR LANDSCAPING REQUIREMENTS INCLUDING TREE PLACEMENT, TOPSOIL AND PLANTING SPECIFICATIONS.
- PROVIDE IRRIGATION AS APPROVED BY CWS.
- JUTE MATTING- GEOJUTE PLUS IN TREATMENT AREA; ECONOJUTE FOR ALL OTHER AREAS, OR SIMILAR FABRICS. COCONUT FIBER IS ALSO ACCEPTABLE.
- 12-INCHES OF TOPSOIL SHALL BE PLACED THROUGHOUT THE WATER QUALITY TRACT.
- FREEBOARD AREA SEED MIX, DWARF TALL FESCUE 40%, DWARF PERENNIAL RYE 30%, CREEPING RED FESCUE 25%, COLONIAL BENT GRASS 5%. APPLY AT A RATE OF 120# / ACRE.

WATER QUALITY FACILITY

PER CWS STANDARDS

NTS

WATER QUALITY DETENTION FACILITY #1 (REFER TO PLANTING DETAILS SHEET L103)									
Plant Communities		Minimum Species Composition	Plant Category	Water Requirements	Light Requirements	Minimum Rooting Size	Minimum Plant Height (1" Dia.)	On Center / Seeding Rate	Spacing Format
Scientific name (Common Name)									
Herbaceous	Juncus patens (Spreading rush)	1098	Herb	Moist	Part	Plug	6"	6/sq.ft.	Mass
	Carex obnupta (Slough Sedge)	1098	Herb	Moist	Part	Plug	4"	6/sq.ft.	Mass
	Scirpus microcarpus (Small Fruited Bulrush)	1098	Herb	Wet	Sun	Plug	6"	6/sq.ft.	Mass
	Juncus effusus (Common Rush)	1098	Herb	Moist	Sun	Plug	6"	6/sq.ft.	Mass
Total Plants		4392							
Plant Communities		Minimum Species Composition	Plant Category	Water Requirements	Light Requirements	Minimum Rooting Size	Minimum Plant Height	On Center / Seeding Rate	Spacing Format
Common Name (Scientific name)									
Trees	Vine Maple (Acer circinatum)	5	Tree	Dry/Moist	Part	2 gal.	2'	4-5'	Single
	Oregon Ash (Fraxinus latifolia)	5	Tree	Moist	Part	2 gal.	6-8'	6'	Single
Shrubs	Total Trees	10							
	Red-Osier Dogwood (Cornus sericea)	17	Shrub	Wet	Part	1 gal.	2'	3-4'	Cluster
	Pacific Ninebark (Physocarpus capitatus)	16	Shrub	Moist	Shade	1 gal.	2'	9'	Cluster
	Douglas Spiraea (Spiraea douglasii)	16	Shrub	Wet	Sun	1 gal.	1.5'	4-5'	Cluster
Total Shrubs		49							
<ul style="list-style-type: none"><li>Tree spacing = sq footage x 0.01; Shrub spacing = sq footage x 0.05; Groundcover = 100% areal cover</li><li>Single = distribute throughout planting area. Cluster = group 3 to 7 plants in same area with herb or grass in between.</li><li>Mass = plant densely to form a single stand of that species in a given area.</li></ul>									

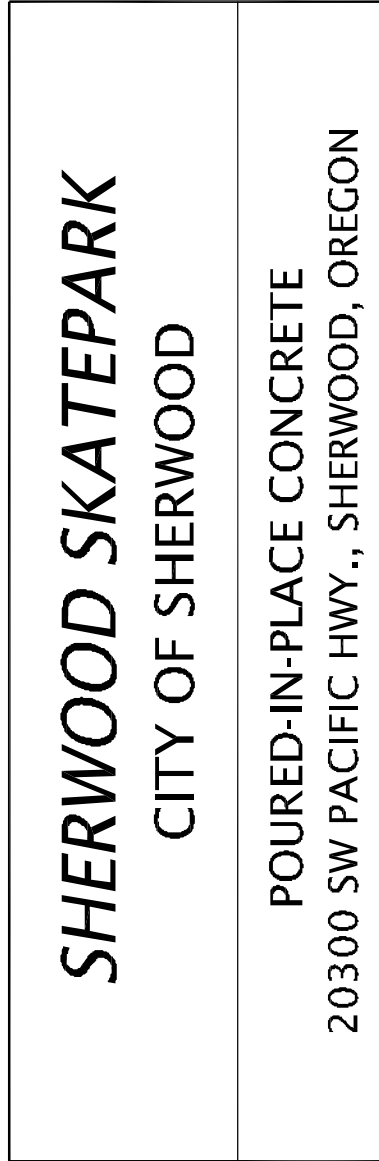
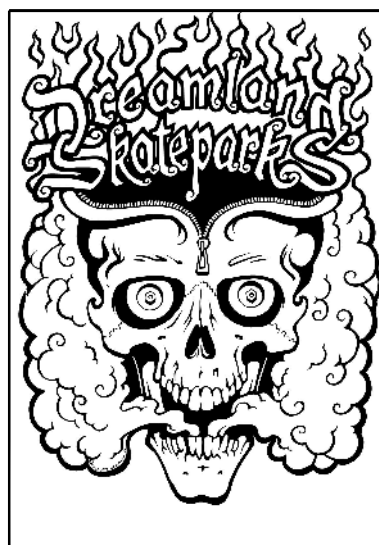
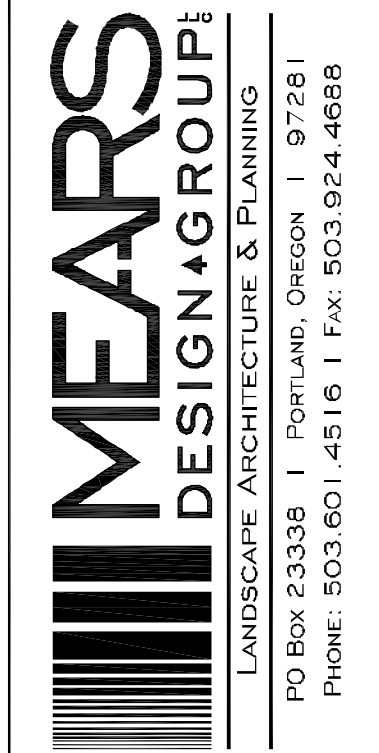
Site Requirements: (Water Quality Detention Facility)

- All invasive, non-native or noxious plant material are to be removed. Methods for removal and control of invasive / non-native and/or noxious plants are to follow strategies as outlined within the CWS /VAM Guidance manual. The subject site is to employ manual / mechanical management strategies and pesticide management strategies throughout maintenance period or until healthy stand of desirable vegetation is established.
- Preserve site's existing native vegetation to the maximum extent practicable. Every effort shall be made to protect a sites existing native vegetation. Native vegetation along Sensitive Areas and Vegetated Corridors shall be retained to the maximum extent practicable.
- Replanting / Enhancement as follows:
  - Refer to plant table and plan for plant species, location, distribution, quantities, size, condition and requirements.
  - A native seed mix has been specified for the buffer area only. All plants to be pit planted with additional organic matter if required but no traditional fertilizer is necessary. Plant placement shall be consistent with the form of the naturally occurring plant community. Shrubs shall be placed in singles or clusters of the same species to provide a natural planting scheme.
- Plant installation requirements. Permittee is responsible for installation of site planting as specified. All trees and shrubs planted in the upland area are to be mulched a minimum of three inches in depth and 18 inches in dia. Appropriate mulches include those made from composted leaves or bark that have not been chemically treated. Temporary irrigation will be provided and used during the two year maintenance period.
- Monitoring and maintenance. Permittee is responsible for monitoring and maintaining the site. All new plant material is to be tagged. The removal of non-native, invasive weeds is necessary throughout the two year maintenance period, or until a healthy stand of desirable vegetation is established. The site is to be monitored a min. of two times per year, by June 1 and September 30. If at any time the landscaping falls below the 80% survival level, the owner shall reinstall all deficient planting at the next appropriate planting opportunity and the two year maintenance period shall begin again from the date of replanting.
- Permittee is required to provide and install a temporary irrigation system to maintain vegetative corridor plant establishment during the monitoring and maintenance period. The irrigation system will be led from a owner provided 3/4" meter (see Civil) and shall be designed to not exceed site available GPM and PSI. Refer to irrigation industry best practices and standards for acceptable design/build practices. Landscape Contractor to provide irrigation as-built record drawing upon completion and acceptance of irrigation system.

Seed Mix for Upland Buffer Zone:

Pro-Time 402 Native Riparian Grass Mix:

Blue Wildrye	Elymus glaucus	60%
Native Red Fescue	Festuca rubra v rubra	30%
Tufted hairgrass	Deschampsia cespitosa	10%
Application Rate of 20 to 30 lbs./acre		
*Seed all bare areas greater than 25 square feet in size		



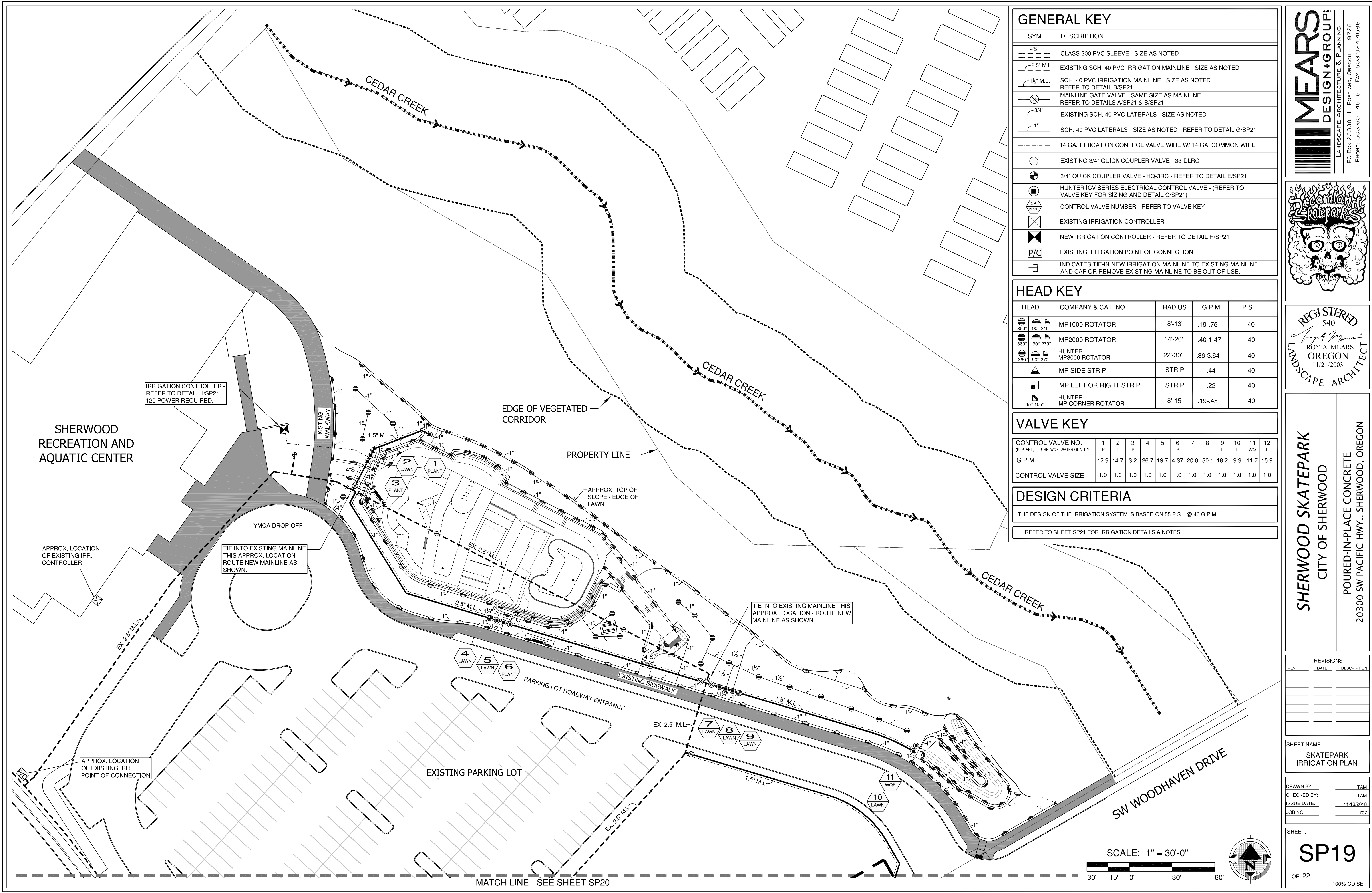
REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME: SKATEPARK PLANTING PLAN DETAILS & NOTES

DRAWN BY: T.A.M.  
CHECKED BY: T.A.M.  
ISSUE DATE: 11/16/2018  
JOB NO.: 1707

SHEET:  
**SP18**  
OF 22  
100% CD SET





GENERAL KEY	
SYM.	DESCRIPTION
	CLASS 200 PVC SLEEVE - SIZE AS NOTED
	EXISTING SCH. 40 PVC IRRIGATION MAINLINE - SIZE AS NOTED
	SCH. 40 PVC IRRIGATION MAINLINE - SIZE AS NOTED - REFER TO DETAIL B/SP21
	MAINLINE GATE VALVE - SAME SIZE AS MAINLINE - REFER TO DETAILS A/SP21 & B/SP21
	EXISTING SCH. 40 PVC LATERALS - SIZE AS NOTED
	SCH. 40 PVC LATERALS - SIZE AS NOTED - REFER TO DETAIL G/SP21
	14 GA. IRRIGATION CONTROL VALVE WIRE W/ 14 GA. COMMON WIRE
	EXISTING 3/4" QUICK COUPLER VALVE - 33-DLRC
	3/4" QUICK COUPLER VALVE - HQ-3RC - REFER TO DETAIL E/SP21
	HUNTER ICV SERIES ELECTRICAL CONTROL VALVE - (REFER TO VALVE KEY FOR SIZING AND DETAIL C/SP21)
	CONTROL VALVE NUMBER - REFER TO VALVE KEY
	EXISTING IRRIGATION CONTROLLER
	NEW IRRIGATION CONTROLLER - REFER TO DETAIL H/SP21
	EXISTING IRRIGATION POINT OF CONNECTION
	INDICATES TIE-IN NEW IRRIGATION MAINLINE TO EXISTING MAINLINE AND CAP OR REMOVE EXISTING MAINLINE TO BE OUT OF USE.

HEAD KEY				
HEAD	COMPANY & CAT. NO.	RADIUS	G.P.M.	P.S.I.
	MP1000 ROTATOR	8'-13'	.19-.75	40
	MP2000 ROTATOR	14'-20'	.40-1.47	40
	HUNTER MP3000 ROTATOR	22'-30'	.86-3.64	40
	MP SIDE STRIP	STRIP	.44	40
	MP LEFT OR RIGHT STRIP	STRIP	.22	40
	HUNTER MP CORNER ROTATOR	8'-15'	.19-.45	40

VALVE KEY												
CONTROL VALVE NO.	1	2	3	4	5	6	7	8	9	10	11	12
(P=PLANT, T=TURF, WQ=WATER QUALITY)	P	L	P	L	L	P	L	L	L	L	WQ	L
G.P.M.	12.9	14.7	3.2	26.7	19.7	4.37	20.8	30.1	18.2	9.9	11.7	15.9
CONTROL VALVE SIZE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

DESIGN CRITERIA
THE DESIGN OF THE IRRIGATION SYSTEM IS BASED ON 55 P.S.I. @ 40 G.P.M.
REFER TO SHEET SP21 FOR IRRIGATION DETAILS & NOTES

LANDSCAPE ARCHITECTURE & PLANNING  
PO BOX 23338 | PORTLAND, OREGON | 97281  
PHONE: 503.601.4516 | FAX: 503.924.4688

REGISTERED  
540  
TROY A. MEARS  
OREGON  
11/21/2003  
LANDSCAPE ARCHITECT

SHERWOOD SKATEPARK  
CITY OF SHERWOOD

POURED-IN-PLACE CONCRETE  
20300 SW PACIFIC HWY., SHERWOOD, OREGON

REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
SKATEPARK  
IRRIGATION PLAN

DRAWN BY: TAM

CHECKED BY: TAM

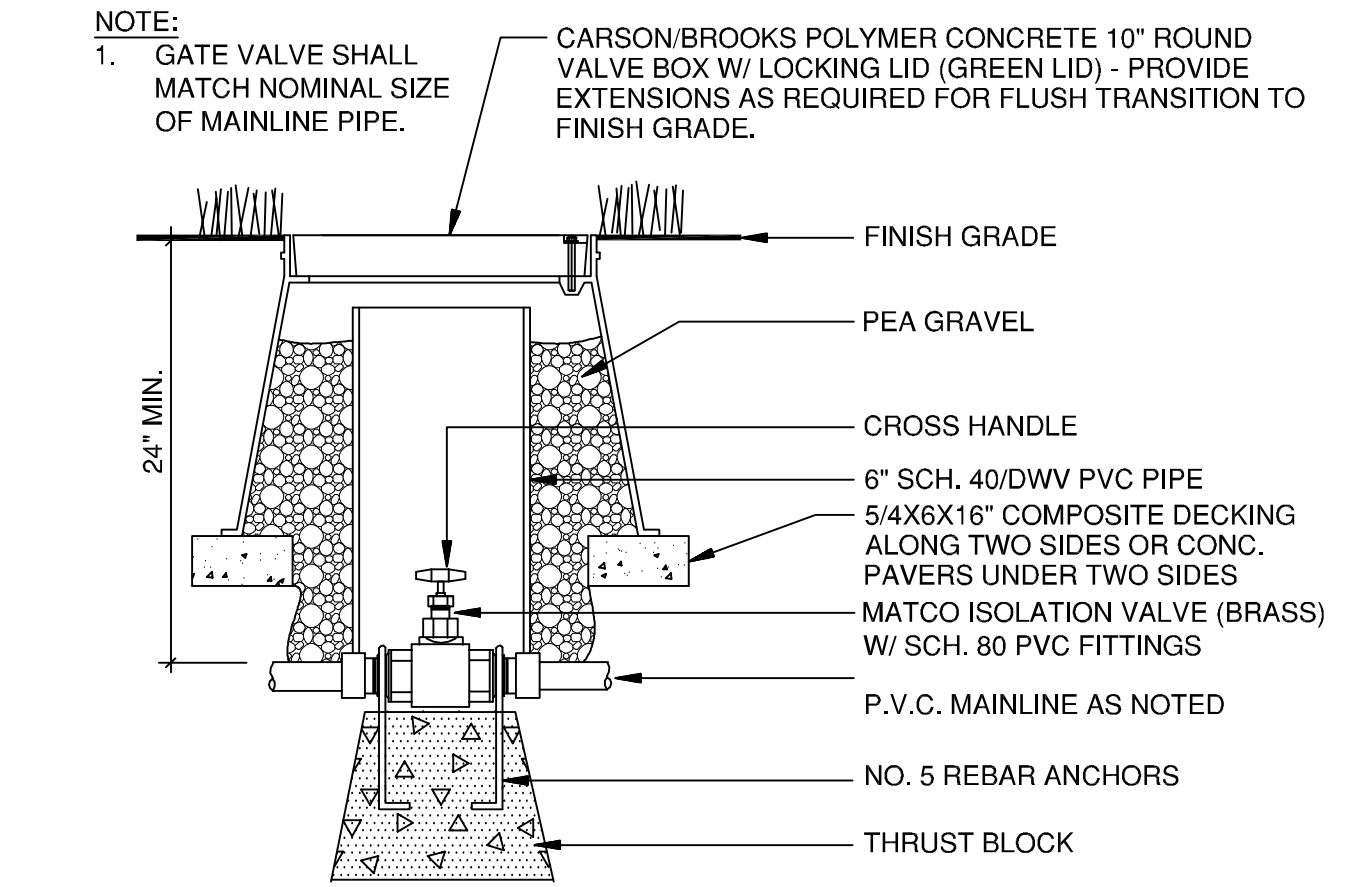
ISSUE DATE: 11/18/2018

JOB NO.: 1707

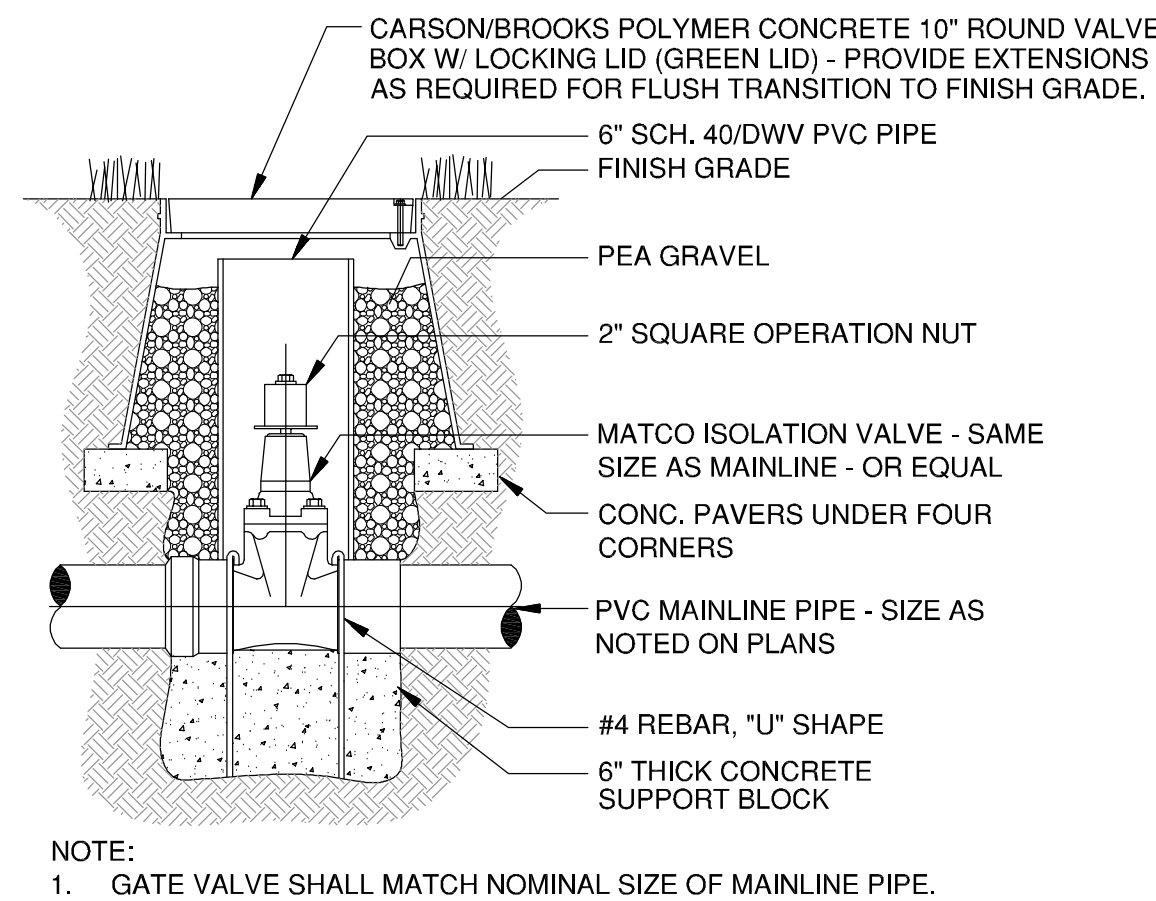
SHEET:  
**SP19**  
OF 22  
100% CD SET



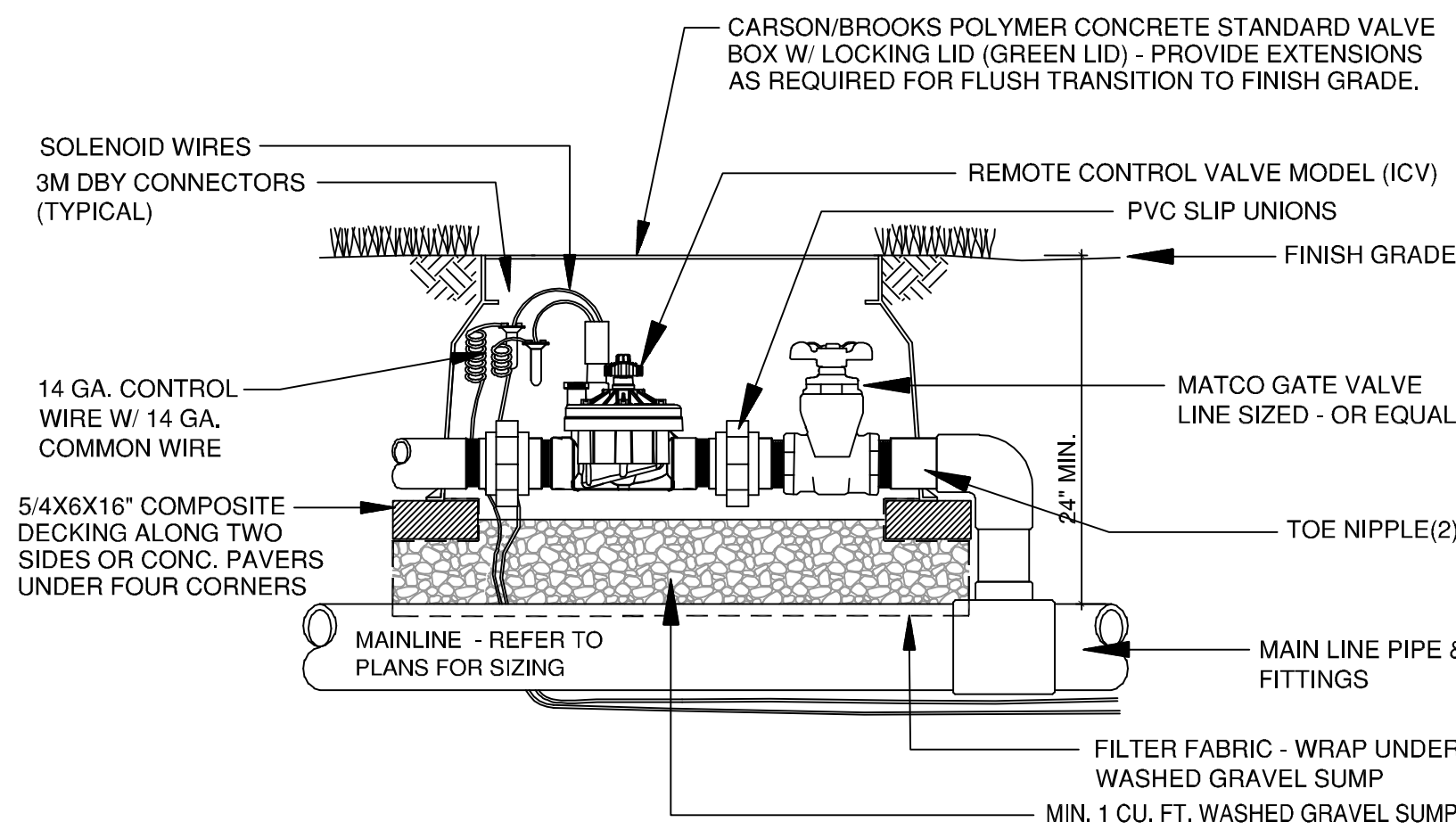




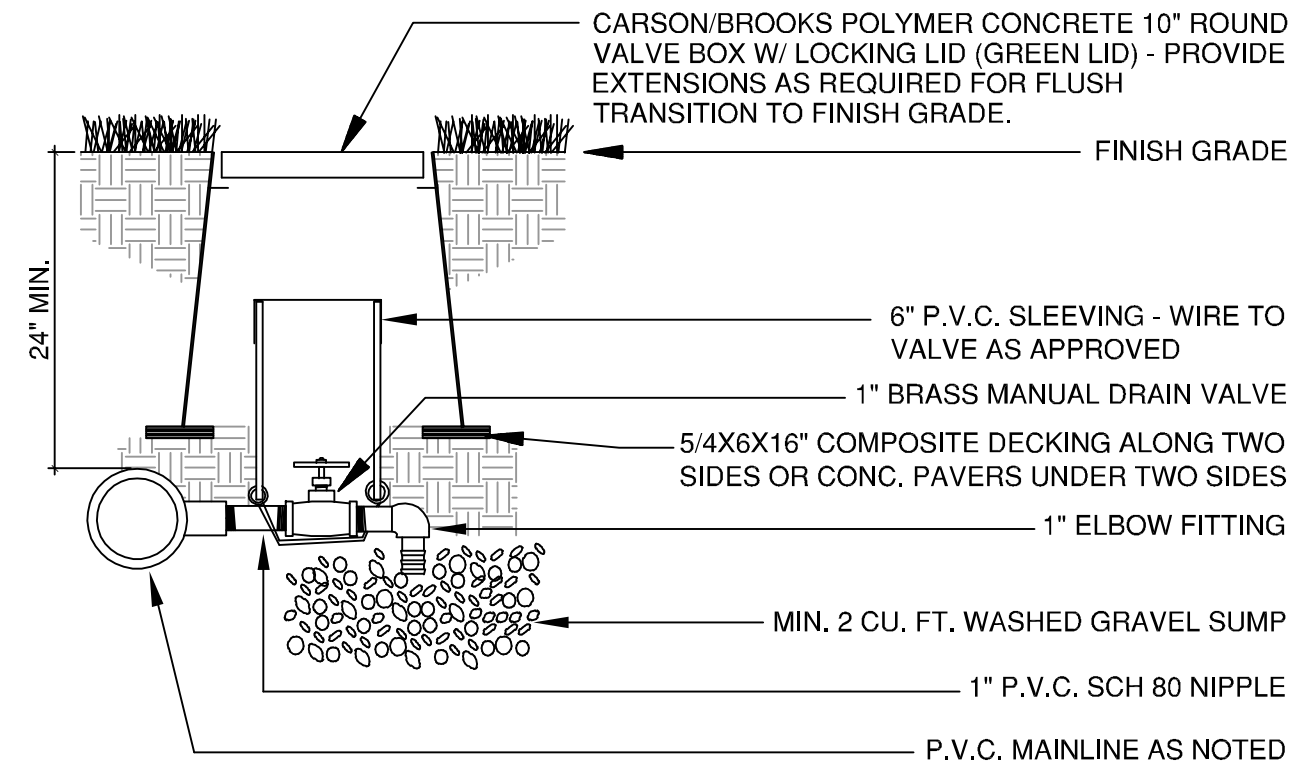
**A** ISOLATION / GATE VALVE DETAIL  
**SP21** (MAINLINE GATE VALVE SIZE - 2" AND SMALLER) NTS



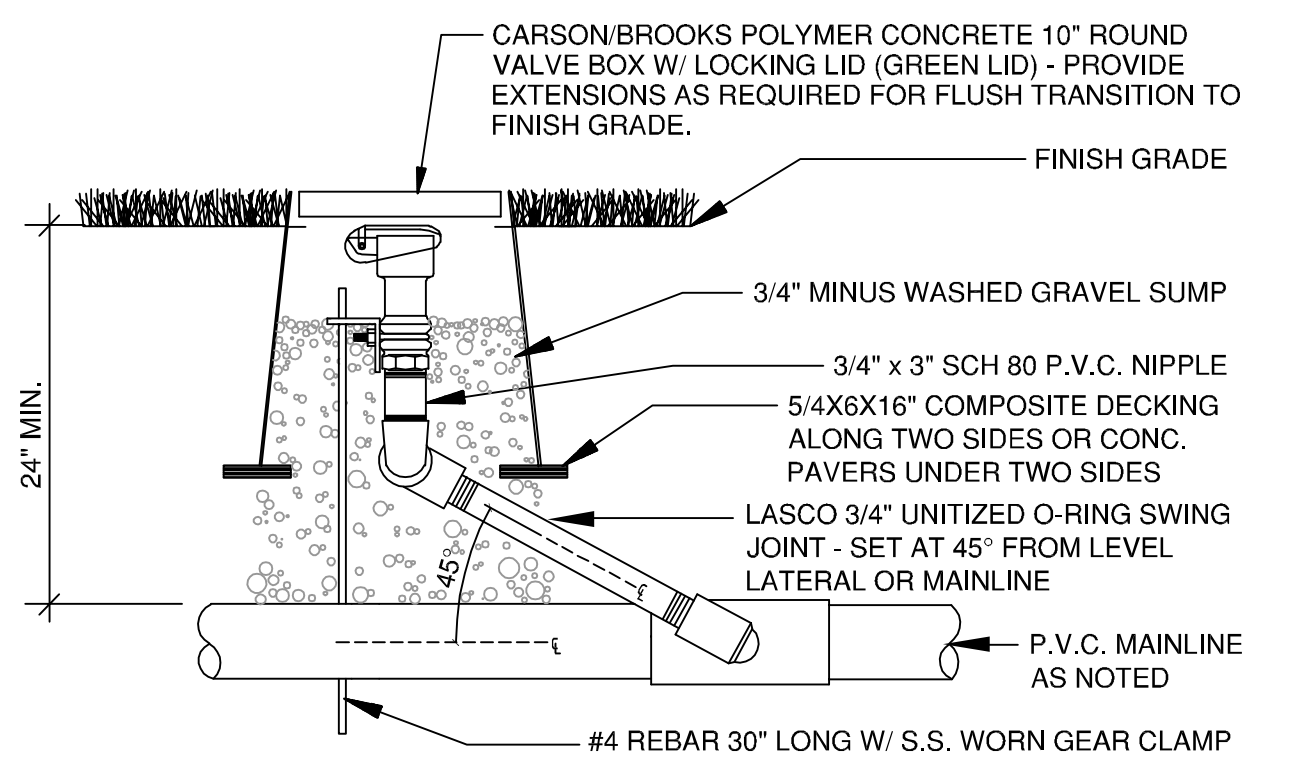
**B** MAINLINE ISOLATION / GATE VALVE DETAIL  
**SP21** (GATE VALVE SIZE - 2-1/2" AND LARGER) NTS



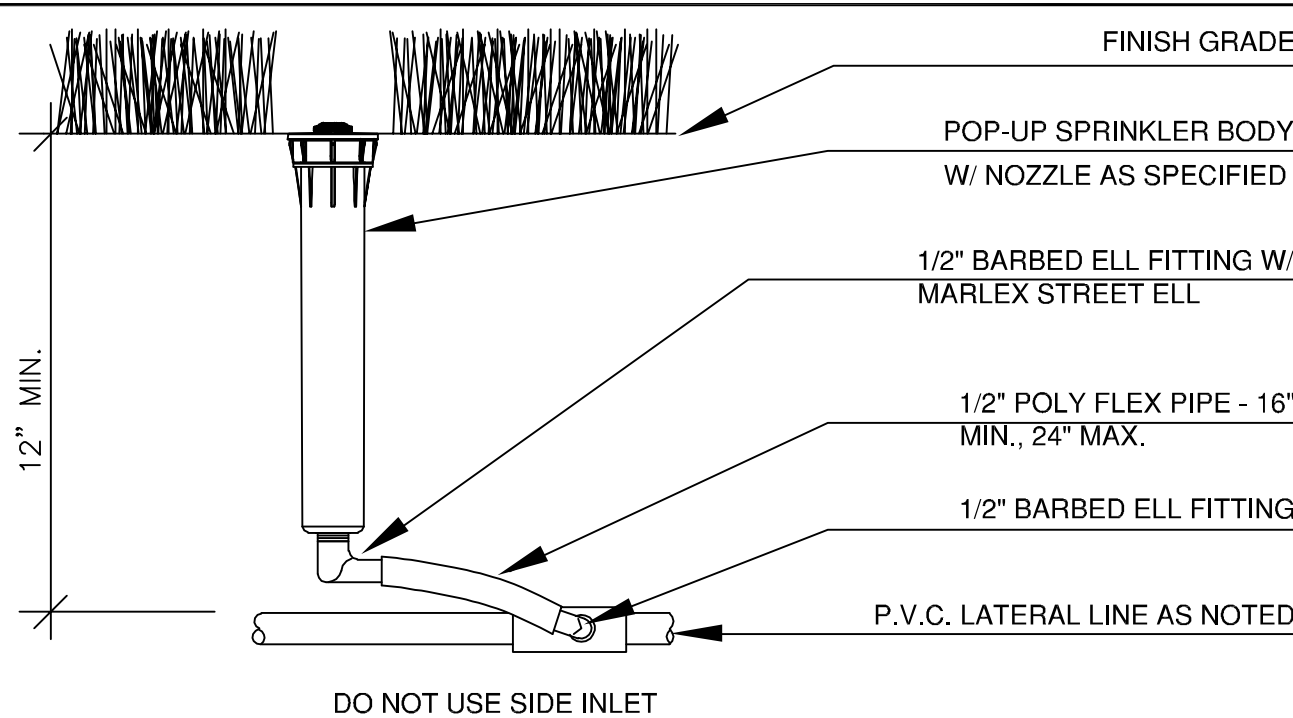
**C** CONTROL VALVE AND BOX DETAIL  
**SP21** NTS



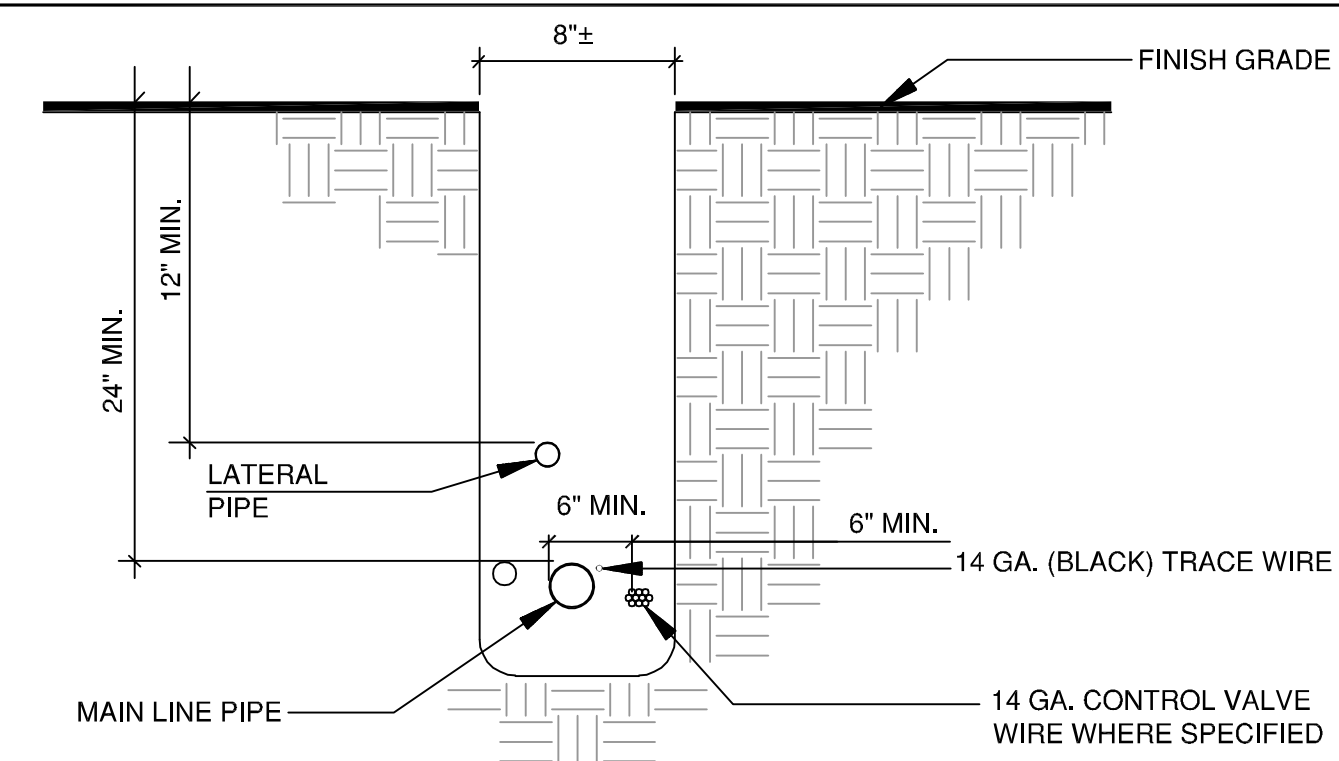
**D** MANUAL DRAIN VALVE DETAIL  
**SP21** NTS



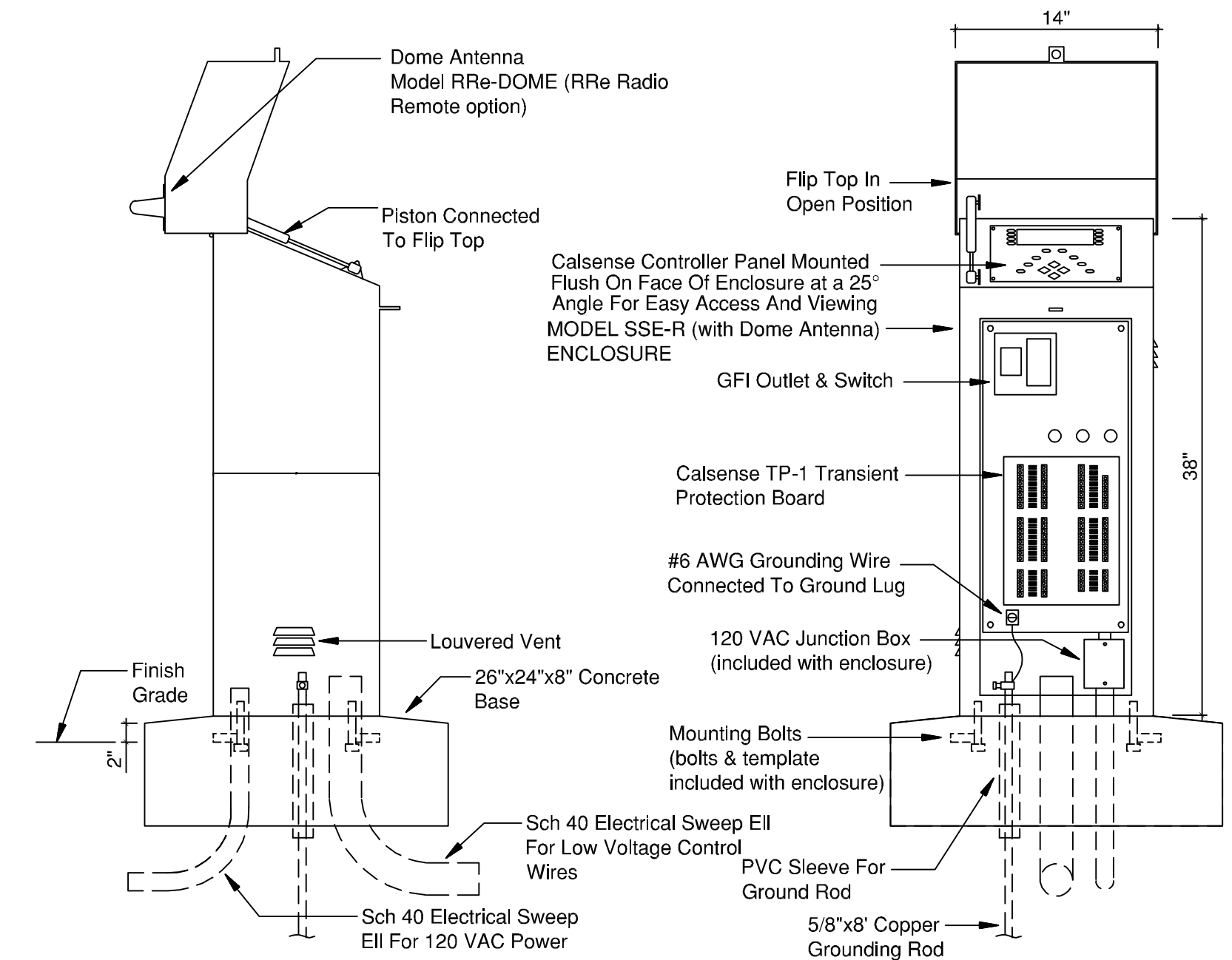
**E** QUICK-COUPLING VALVE DETAIL (3/4")  
**SP21** NTS



**F** MP ROTATOR SPRINKLER DETAIL  
**SP21** HUNTER PROS-06-PRS40-CV NTS



**G** TRENCH DETAIL  
**SP21** NTS



**H** IRRIGATION CONTROLLER DETAIL  
**SP21** (CALSENSE; ET2000e-16-EN-RRe W/ SSE-R ENCLOSURE) NTS

NOTE:  
• CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 or 220 VAC SOURCE.  
• CONTROLLER IS REQUIRED TO HAVE SEPARATE (2) 14 GA. PAIR. WIRE FROM CONTROLLER TO FLOW SENSOR.

CALSENSE

## GENERAL NOTES

- CONTRACTOR REQUIRED TO VERIFY EXISTING IRRIGATION SYSTEM WATER SOURCE RUNNING PRIOR TO STARTING WORK. POINT OF CONNECTION AS SHOWN ON DRAWINGS IS APPROXIMATE LOCATION. ANY DEVIATION FROM PLANS ARE REQUIRED TO BE APPROVED BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- HOLD HEADS A MIN. 3" FROM EDGES OF ALL HARD SURFACES & 6" MIN. FROM FOUNDATION OF BLDG. WALLS.
- HUNTER SPRINKLER BODIES TO BE PROS-06-PRS40-CV (W/ MP ROTATOR NOZZLES). REFER TO DETAIL F/SP21.
- ADJUST MP ROTATOR NOZZLES TO MEET REQUIRED HEAD-TO-COVERAGE AND ARC TO MATCH LANDSCAPE.
- INSTALL VALVE BOXES PERPENDICULAR TO WALLS, WALKS, AND CURBS.
- INSTALL PIPING IN TRENCH WHERE POSSIBLE (6" MIN. SEPARATION REQUIRED).
- PLACE (1) ONE VALVE PER STANDARD VALVE BOX.
- WHERE Q.C.V. ARE SHOWN ADJACENT TO CONTROL VALVE, INSTALL IN VALVE BOX WITH CONTROL VALVE.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF PROJECT SPECIFICATIONS PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON PLANS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES AND UTILITY LOCATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
- CONTRACTOR SHALL NOTIFY IRRIGATION DESIGNER OF ANY DISCREPANCIES ON PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
- IRRIGATION CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS OR ADDITIONS TO DESIGN WITHOUT PRIOR APPROVAL FROM IRRIGATION DESIGNER.
- ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE AND FEDERAL REQUIREMENTS. IT SHALL BE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS OR APPROVALS.
- THIS PLAN IS SCHEMATIC DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
- IRRIGATION CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE PRIOR TO BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY IRRIGATION DESIGNER IF AVAILABLE WATER PRESSURE EXCEEDS 5 P.S.I. HIGHER OR LOWER THAN AVAILABLE WATER PRESSURE IS INDICATED ON PLANS.
- SINGLE BLUE TRACE WIRE REQUIRED ON TOP OF ALL IRRIGATION PIPING (MAINLINE & LATERALS).
- PLACE CONTROL WIRE 3" TO 6" AWAY FROM IRRIGATION MAIN LINE.
- IRRIGATION CONTRACTOR TO REVIEW ALL IRRIGATION ZONES WITH OWNER'S REPRESENTATIVE UPON INSTALLATION COMPLETION.

ALL PRODUCTS/MATERIALS ARE TO BE AS IDENTIFIED ON APPROVED PLANS AND SPECIFICATIONS. NO PRODUCT/MATERIAL SUBSTITUTIONS UNLESS APPROVED BY OWNER OR IRRIGATION SYSTEM DESIGNER DURING BIDDING PHASE.



REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
**SKATEPARK  
IRRIGATION  
DETAILS & NOTES**

DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/18/2018
JOB NO.:	1707

SHEET: