

# McDONALD PARK SPLASH PAD FOR THE TOWN OF LAKEVIEW



**AREA MAP**  
N.T.S.

## LEGEND

EXISTING	
ASPHALT	
CONCRETE	
GRASS	
FENCE	
WATER LINE	
PROPOSED	
ASPHALT	
CONCRETE	
TURF	
WATER LINE	

## ABBREVIATIONS

AC	ASPHALTIC CONCRETE	HOR	HORIZONTAL	REQ'D	REQUIRED
AD	AREA DRAIN	HP	HIGH POINT	RP	RADIUS POINT
ADA	AMERICAN DISABILITIES ACT	ID	INSIDE DIAMETER	ROW	RIGHT-OF-WAY
ALIGN	ALIGNMENT	IE	INVERT ELEVATION	S	SOUTH
BFPD	BACKFLOW PREVENTION DEVICE	L	LEFT (REFERRING TO OFFSETS)	SD	STORM DRAIN LINE
BOC	BACK OF CURB (TOP)	LF	LINEAR FEET	SDCB	STORM DRAIN CATCH BASIN
BVCE	BEGIN VERTICAL CURVE ELEVATION	MIN	MINIMUM	SDCI	STORM DRAINAGE CURB INLET
		MH	MANHOLE	SDMH	STORM DRAINAGE MANHOLE
BVCS	BEGIN VERTICAL CURVE STATION	MJ	MECHANICAL JOINT (WATER PIPES)	SE	SOUTHEAST
CATV	CABLE TELEVISION	MUTCD	MANUAL UNIFORM TRAFFIC CONTROL DEVICES	SF	SQUARE FEET
CB	CATCH BASIN			SQ	SQUARE
CL	CENTERLINE	N	NORTH	SS	STAINLESS STEEL
CL	CLASS	NE	NORTHEAST	SSCO	SANITARY SEWER CLEANOUT
CO	CLEANOUT	NFL	NOT FIELD LOCATED	SSMH	SANITARY SEWER MANHOLE
CLR	CLEARANCE	NPT	NATIONAL PIPE THREAD TAPER	SSMH	SANITARY SEWER MANHOLE
CSDN	CITY STANDARD DRAWING NUMBER	NTS	NOT TO SCALE	STA	STATION
CU	COPPER	NW	NORTHWEST	SW	SOUTHWEST
DI	DUCTILE IRON (WATER PIPE)	OC	ON CENTER	TBM	TEMPORARY BENCHMARK
E	EAST	OCEW	ON CENTER EACH WAY	TC	TOP OF CURB
EG	EXISTING GRADE	OD	OUTSIDE DIAMETER	TG	TOP OF GRATE
ELEV	ELEVATION	PC	POINT OF CURVATURE	TS	TOP OF SLAB
EP	EDGE OF PAVEMENT	PCC	POINT OF COMPOUND CURVATURE	TW	TOP OF WALL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	P.C.C.	PORTLAND CEMENT CONCRETE	TYP	TYPICAL
		PE	POLYETHYLENE	UNK	UNKNOWN
EVCE	END VERTICAL CURVE ELEV.	P.E.	PLAIN END	VC	VERTICAL CURVE
EVCS	END VERTICAL CURVE STA	PSAR	PUBLIC SIDEWALK ACCESS RAMP	VCP	VITRIFIED CLAY PIPE
EX	EXISTING	PSI	POUNDS PER SQUARE INCH	VER	VERTICAL
F	FLANGED (WATER FITTINGS)	PT	POINT OF TANGENCY	W	WEST
FF	FINISH FLOOR ELEVATION	PUE	PUBLIC UTILITY EASEMENT	W/	WITH
FG	FINISH GRADE	PVC	POLYVINYL CHLORIDE	WL	WATER LINE
FH	FIRE HYDRANT ASSEMBLY	PVI	POINT OF VERTICAL INTERSECTION	XING	CROSSING
FL	FLOW LINE	PWES	PUBLIC WORKS ENGINEERING STANDARDS		
GA	GAUGE	R	RIGHT (REFERRING TO OFFSETS)		
GRD	GRADE	RAD	RADIUS		
CV	GATE VALVE				
HDPE	HIGH DENSITY POLYETHYLENE				

## PROJECT CONTACT INFORMATION

CIVIL ENGINEER & SURVEYOR  
 DAN SCALAS, P.E. & C.W.R.E.  
 ADKINS ENGINEERING AND SURVEYING  
 1435 ESPLANADE AVENUE  
 KLAMATH FALLS, OR 97601  
 (541) 884-4666

## TOWN OFFICIALS

MAYOR  
 RAY TURNER

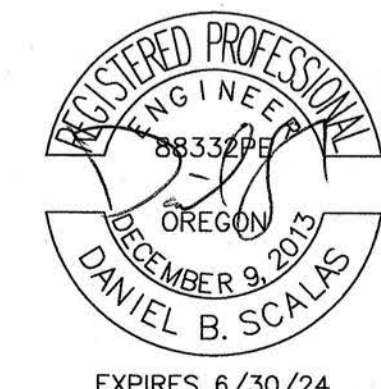
CITY COUNCIL MEMBERS  
 SANDY WENZEL  
 JAY FARMEN  
 SHANNON THEALL  
 CHARLEY TRACY

CITY MANAGER  
 MICHELE PARRY

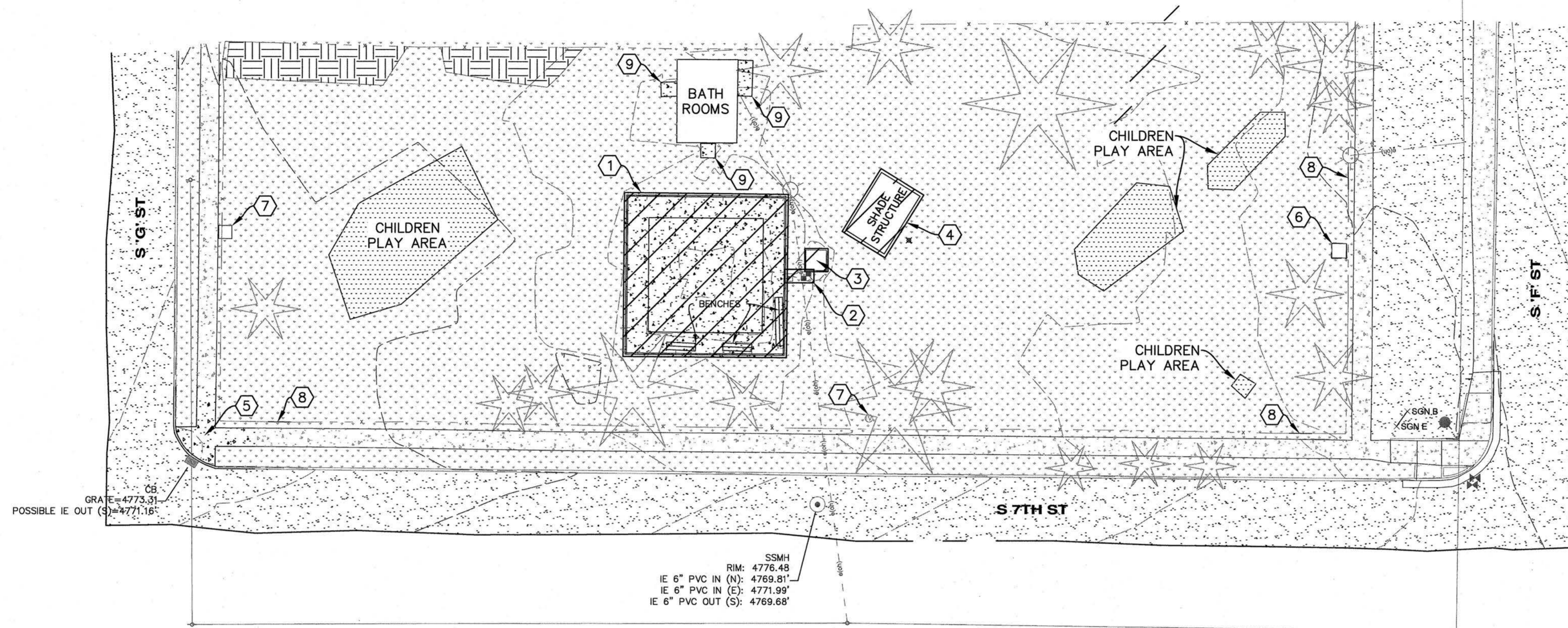
PUBLIC WORKS DIRECTOR  
 TROY MILLER

## SHEET INDEX

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C3	SITE DEMOLITION 2
C4	SITE PLAN
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S4	STRUCTURAL DETAILS

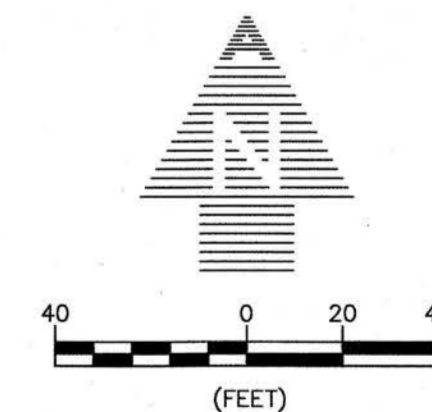


<b>McDONALD PARK SPLASH PAD FOR THE TOWN OF LAKEVIEW</b>	<b>COVER</b>
<p>o / 541.884.4666 w / AdkinsEngineering.com 1435 ESPLANADE AVENUE, KLAMATH FALLS, OR 97601 SERVING S. OREGON &amp; N. CALIFORNIA ENGINEERING • SURVEYING • PLANNING • TESTING</p>	
DATE: 11-07-2022 PROJECT: 3948-02 FILE: DEMO DESIGNED BY: TSL DRAWN BY: TSL CHECKED BY: DBS SURVEYED BY: N/A SCALE: AS SHOWN SHEET: 1 OF 11	
C1	



**CONSTRUCTION NOTES**

- ① REMOVE AND DISPOSE OF EXISTING WADING POOL AND SURROUNDING CURB
- ② REMOVE AND DISPOSE OF EXISTING VALVE BOX AND CAP WATER LINE FOR FUTURE USE
- ③ REMOVE AND DISPOSE OF WATER RECIRCULATION LINES, SEE SHEET C.3. CONCRETE VAULT TO REMAIN.
- ④ REMOVE AND DISPOSE OF EXISTING SHADE STRUCTURE AND CONCRETE PAD
- ⑤ SAWCUT AND REMOVE EXISTING SIDEWALK, ASPHALT AND RAMPS. EXISTING CATCH BASIN TO REMAIN.
- ⑥ SELECTIVELY MODIFY EXISTING VAULT TO ALLOW FOR INSTALLATION OF ADJACENT VAULT AND DOUBLE CHECK VALVE.
- ⑦ REMOVE EXISTING IRRIGATION VALVE BOX/IRRIGATION CONTROL AS REQUIRED TO ALLOW FOR NEW SYSTEM TO BE INSTALLED. CAP IRRIGATION LINE FOR FUTURE USE.
- ⑧ REMOVE SECTION OF FENCE TO ALLOW FOR PEDESTRIAN MOVEMENT, TYP. REFER TO SITE PLAN FOR EXACT LOCATION AND INSTALLATION OF FENCE POSTS.
- ⑨ REMOVE EXISTING CONCRETE PADS TO ALLOW FOR PROPOSED SIDEWALK, TYP.



No.	REVISION	DATE	BY

**MCDONALD PARK SPLASH PAD  
FOR THE  
TOWN OF LAKEVIEW  
SITE DEMOLITION 1**

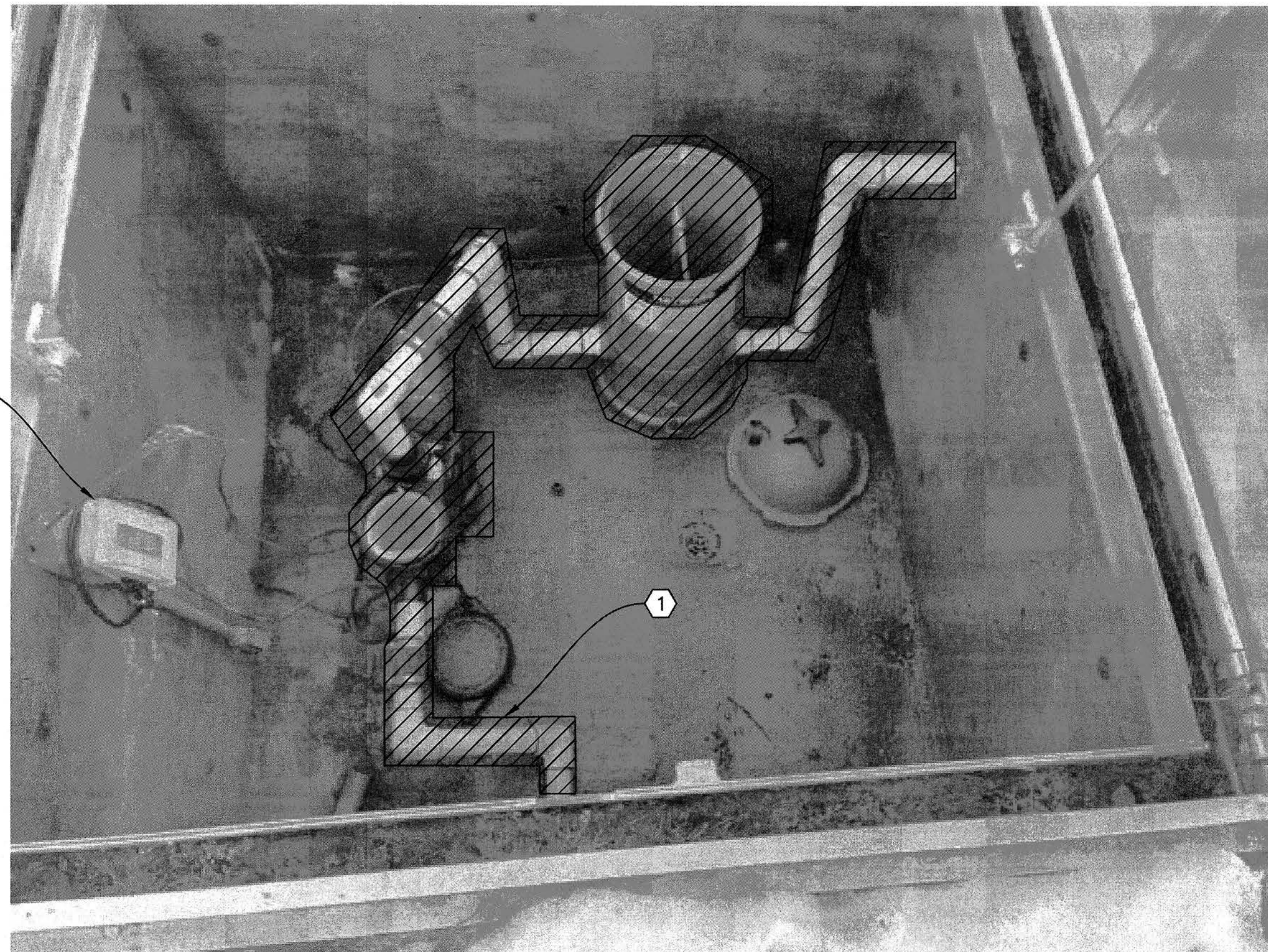
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PROJECT: 3948-02  
FILE: DEMO  
DESIGNED BY: TSL  
DRAWN BY: TSL  
CHECKED BY: DBS  
SURVEYED BY: N/A  
SCALE: AS SHOWN  
SHEET: 2 OF 11

**C2**



**RECIRCULATION VAULT NEAR WADING POOL**



**CONSTRUCTION NOTES**

- ① REMOVE RECIRCULATION COMPONENTS
- ② UTILIZE EXISTING POWER SUPPLY FOR NEW SPLASH PAD CONTROLS

No.	REVISION	DATE	BY

**MCDONALD PARK SPLASH PAD  
FOR THE  
TOWN OF LAKEVIEW**

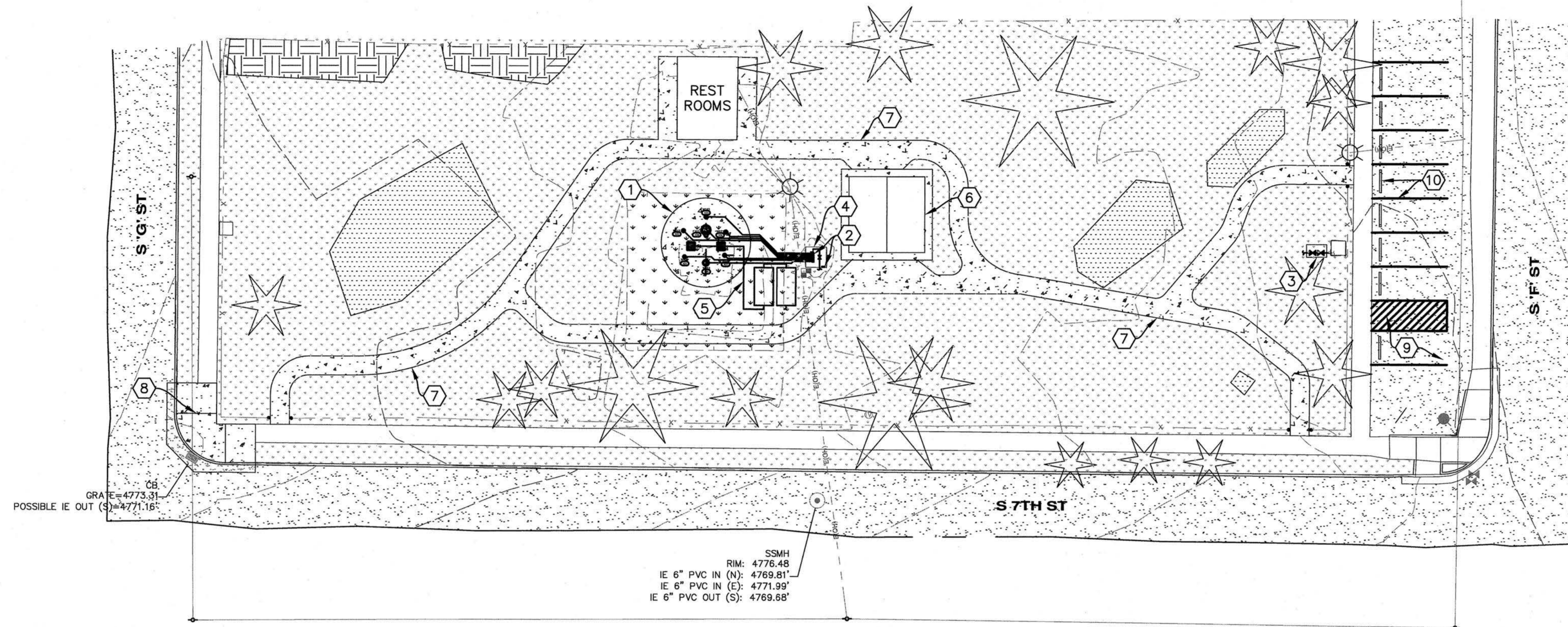
**SITE DEMOLITION 2**

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FILE: DEMO  
DESIGNED BY: TSL  
DRAWN BY: TSL  
CHECKED BY: DBS  
SURVEYED BY: N/A  
SCALE: AS SHOWN  
SHEET: 3 OF 11

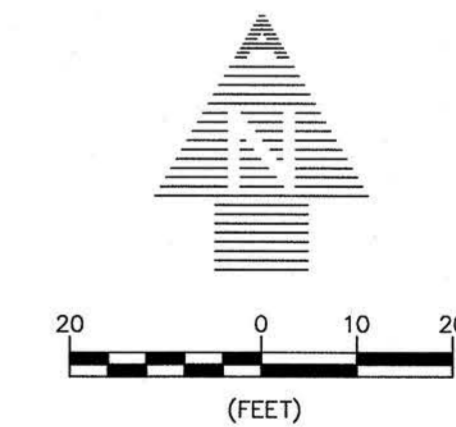


**C3**



**CONSTRUCTION NOTES**

- ① INSTALL WATER ODYSSEY EQUIPMENT ON 23'-7" DIAMETER CONCRETE PAD, AT GRADE. REFER TO SHEET S1 FOR CONCRETE AND REINFORCEMENT REQUIREMENTS.
- ② INSTALL CONTROL STATION AND NEW VALVES, PER DETAIL 2/C5, IN EXISTING VAULT. SPLASH PAD SHALL BE SUPPLIED FROM EXISTING WATER LINE AND ELECTRICAL SOURCE. CONTRACTOR TO VERIFY THAT THE POWER SOURCE IS SUFFICIENT PER WATER ODYSSEY REQUIREMENTS.
- ③ INSTALL NEW CONCRETE VAULT AND REDUCED PRESSURE BACK FLOW PREVENTION DEVICE SEE DETAIL 1/C5. CONTRACTOR TO FIELD LOCATE EXISTING LINE, SPLICE IN PROPOSED VALVE, WITHOUT DAMAGING OTHER INFRASTRUCTURE. CONTRACTOR TO ABANDON EXISTING IRRIGATION SYSTEM, IN PLACE, AND PROVIDE NEW IRRIGATION SYSTEM. SYSTEM TO BE SUPPLIED PRIMARILY FROM SPLASH PAD RE-USE WATER, THEN MUNICIPAL RESOURCES AS SECONDARY. CONTRACTOR TO SUBMIT PROPOSED IRRIGATION PLAN TO ENGINEER FOR APPROVAL.
- ④ EXISTING SERVICE CONNECTION VAULT SEE DETAIL 3, SHEET C5.
- ⑤ CONNECT SPLASH PAD DRAIN TO PROPOSED UNDERGROUND IRRIGATION STORAGE TANKS. CONTRACTOR TO PROVIDE 5,000 GALLONS OF ORENCO FIBERGLASS, OR APPROVED EQUAL, TRAFFIC-RATED STORAGE CAPACITY FOR SPLASH PAD WASTEWATER. CONTRACTOR TO INSTALL ORENCO BIOTUBE PROPAPK PUMP PACKAGE, OR APPROVED EQUAL, EFFLUENT PUMPING SYSTEM TO IRRIGATION CONNECTION. TANK OVERFLOW SYSTEM TO BE CONNECTED TO EXISTING DRAIN. CONTRACTOR TO INSTALL RELAY WIRE FROM EFFLUENT PUMP LOW FLUID LEVEL FLOAT TO MUNICIPAL WATER SUPPLY VALVE AS SUPPLEMENTAL WATER IS REQUIRED.
- ⑥ INSTALL SHADE STRUCTURE AND ASSOCIATED CONCRETE PAD PER STRUCTURAL SHEETS.
- ⑦ INSTALL MEANDERING ADA-ACCESSIBLE SIDEWALK THROUGHOUT PARK PER OREGON DEPARTMENT OF TRANSPORTATION STANDARD DETAIL RD720. PROVIDE CONSTRUCTION JOINTS PER ODOT RD722. INSTALL FENCE GAP, POSTS, AND TRANSITIONS AS REQUIRED. CONTRACTOR TO FIELD GRADE SIDEWALK TO ALLOW FOR ADEQUATE DRAINAGE WITHOUT PONDING.
- ⑧ INSTALL ADA-ACCESSIBLE RAMP ACCORDING TO OREGON DEPARTMENT OF TRANSPORTATION STANDARD DETAIL RD-922 OPTION PL-4 AND ASSOCIATED ASPHALT PATCHING REQUIRED.
- ⑨ INSTALL ADA-ACCESSIBLE VAN PARKING SIGNAGE, WHEEL STOP, AND PAINTED ACCESS AISLE PER CURRENT ADA STANDARDS, CHAPTER 5. CONTRACTOR TO VERIFY EXISTING PAD DOES NOT EXCEED 2% SLOPE IN ANY DIRECTION. IF EXCESS SLOPE IS ENCOUNTERED, CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY.
- ⑩ INSTALL WHEEL STOP PER TOWN OF LAKEVIEW REQUIREMENTS. CLEAN EXISTING ASPHALT CONCRETE, FOG COAT, AND PAINT PARKING STALL STRIPING PER TOWN OF LAKEVIEW STANDARDS @ 9'-0 O.C.



No.	REVISION	DATE	BY

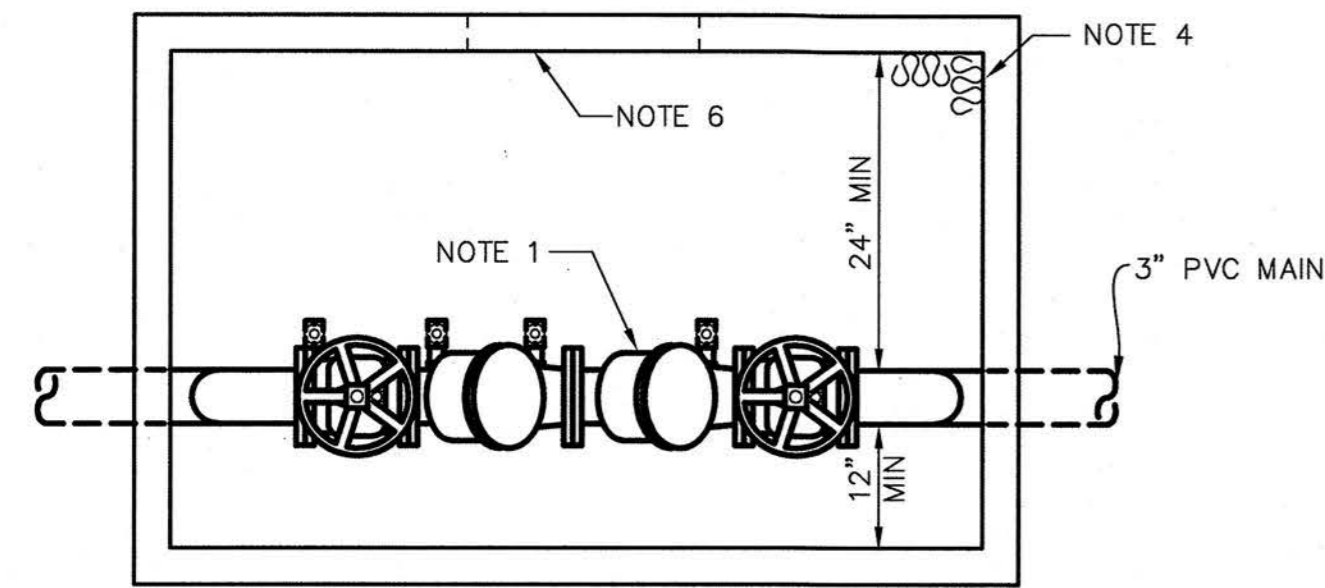
**McDONALD PARK SPLASH PAD  
FOR THE  
TOWN OF LAKEVIEW**

**SITE PLAN**

**A-E ADKINS**  
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DATE: 11-07-2022  
PROJECT: 3948-02  
FILE: SITE PLAN  
DESIGNED BY: TSL  
DRAWN BY: TSL  
CHECKED BY: DBS  
SURVEYED BY: N/A  
SCALE: AS SHOWN  
SHEET: 4 OF 11

**C4**



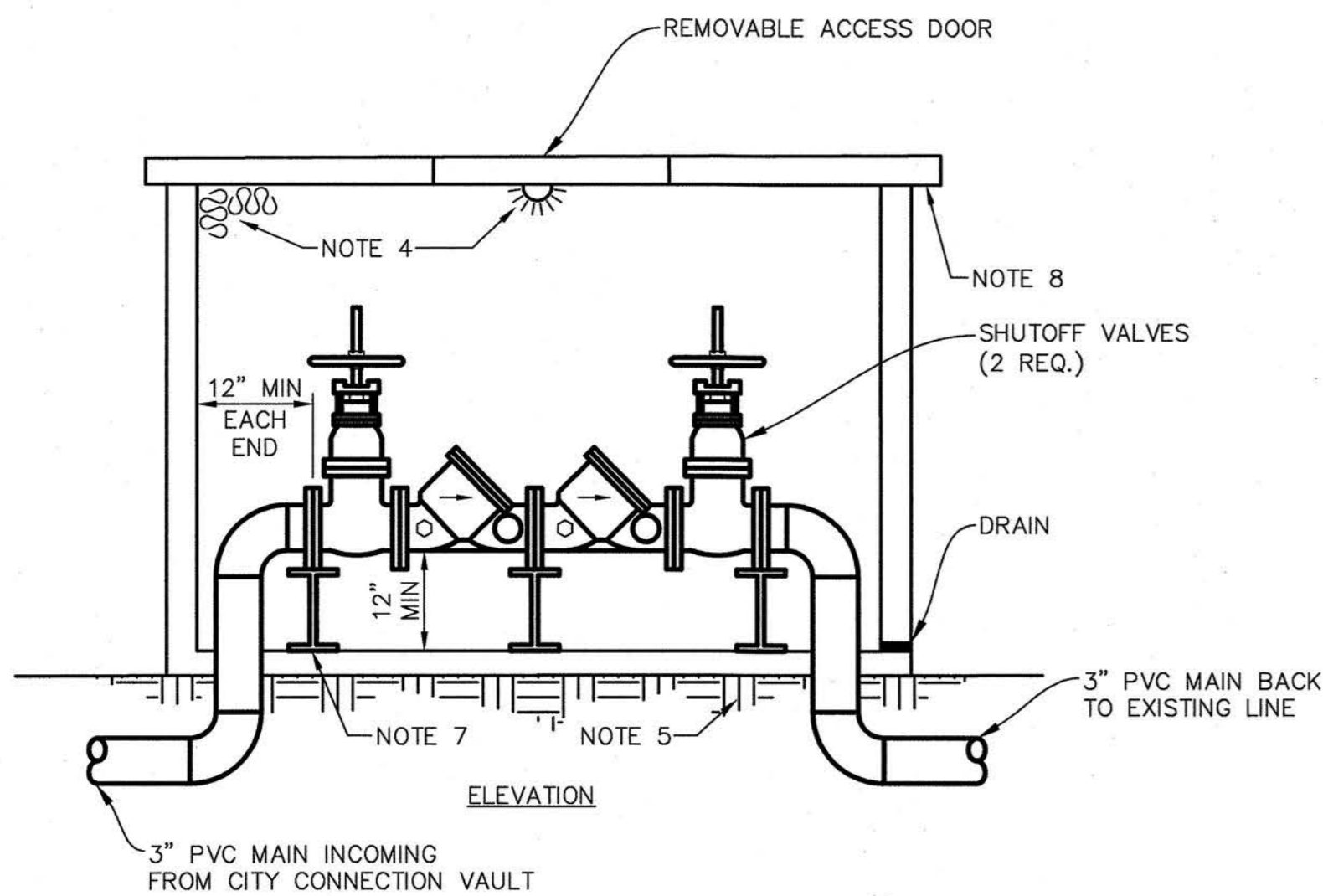
PLAN

**NOTES**

1. DOUBLE CHECK VALVE ASSEMBLY SHALL BE INSTALLED IN A LOCATION APPROVED BY FOR THE RESPECTIVE SERVICE AREA.
2. DOUBLE CHECK VALVE ASSEMBLY MAY BE INSTALLED VERTICALLY, PROVIDED THAT THE ASSEMBLY:
  - A. IS RECOMMENDED BY THE MANUFACTURER FOR VERTICAL INSTALLATION
  - B. IS INSTALLED IN AN ORIENTATION AS LISTED IN THE CURRENT "APPROVED BACKFLOW ASSEMBLY LIST" (OREGON DEPARTMENT OF HUMAN SERVICES, 503-731-4007).
3. ALL CLEARANCES APPLY TO OUTSIDE, IN-BUILDING, AND VERTICAL INSTALLATIONS.
4. INSULATION-FREEZE PROTECTION TO BE INSULATION AND/OR HEAT SOURCE TO KEEP ENCLOSURES AT A MINIMUM TEMPERATURE OF 40°F (NFPA 13-4-5.4.1.1).
5. UNDISTURBED BASE.
6. A DOOR OR OTHER ACCESS SHALL BE PROVIDED.
7. ALL ASSEMBLIES 2 1/2" AND LARGER SHALL HAVE FLANGE SUPPORTS.
8. ALL STRUCTURES TO COMPLY WITH LOCAL CODES.

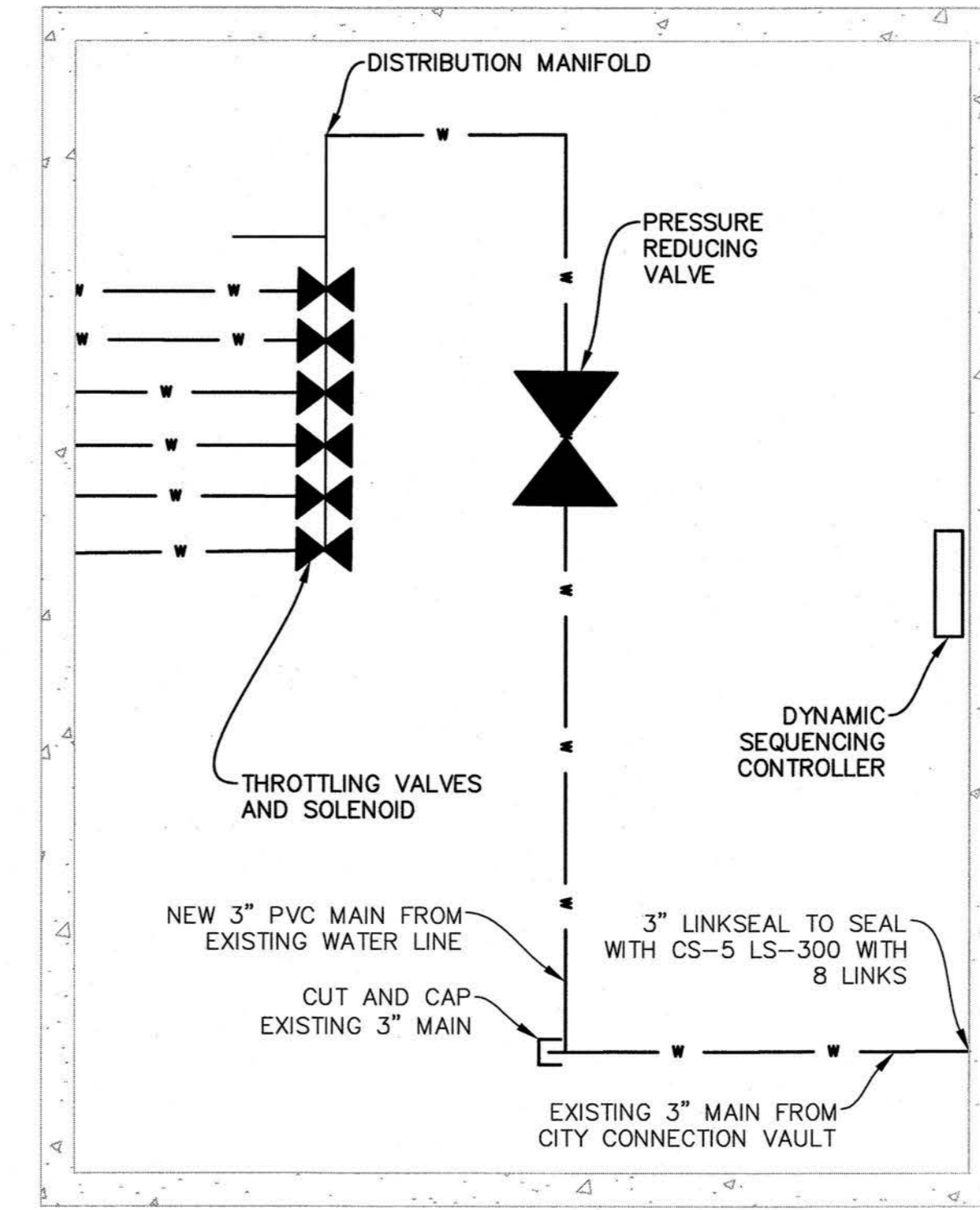
AS REQUIRED BY OAR 333-061-0070 AND THE OREGON PLUMBING SPECIALTY CODE, AN INITIAL TEST PERFORMED BY A STATE CERTIFIED BACKFLOW ASSEMBLY TESTER IS REQUIRED AT THE TIME OF INSTALLATION, WITH COPIES FURNISHED TO:

1. THE OWNER
2. THE WATER SUPPLIER
3. THE BUILDING OFFICIAL

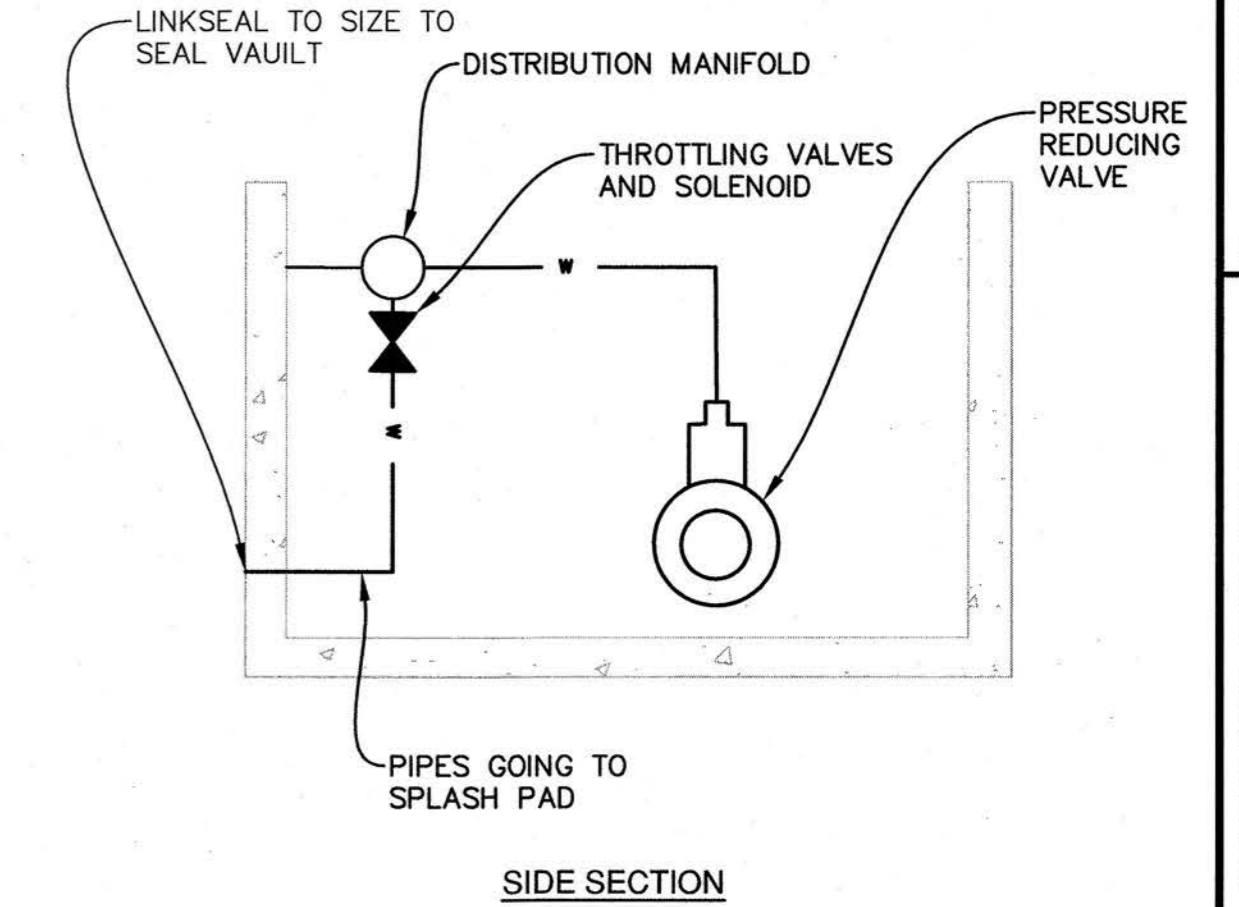


ELEVATION

1 REDUCED PRESSURE BACKFLOW DEVICE  
5 N.T.S.

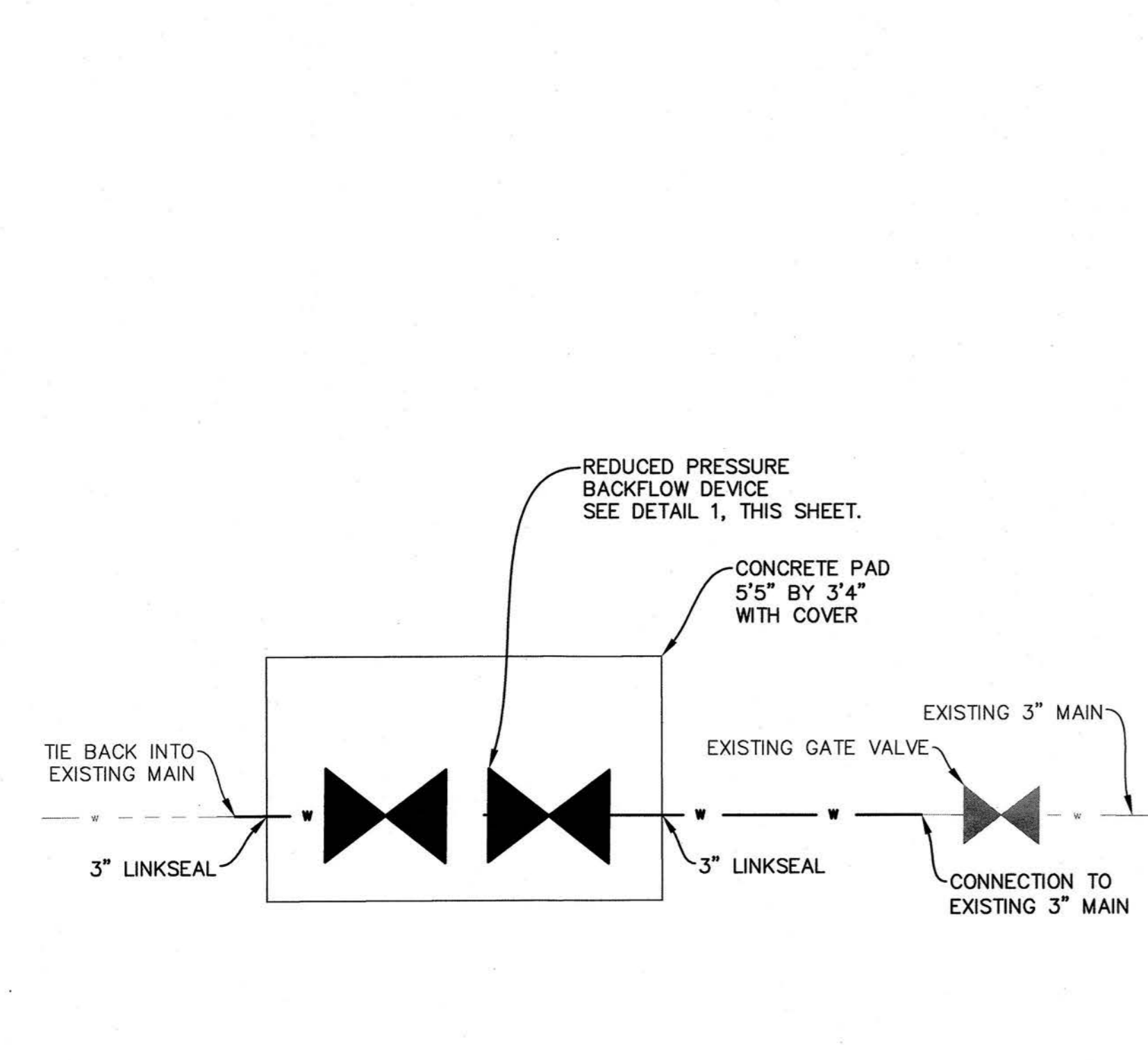


OVERHEAD SECTION



SIDE SECTION

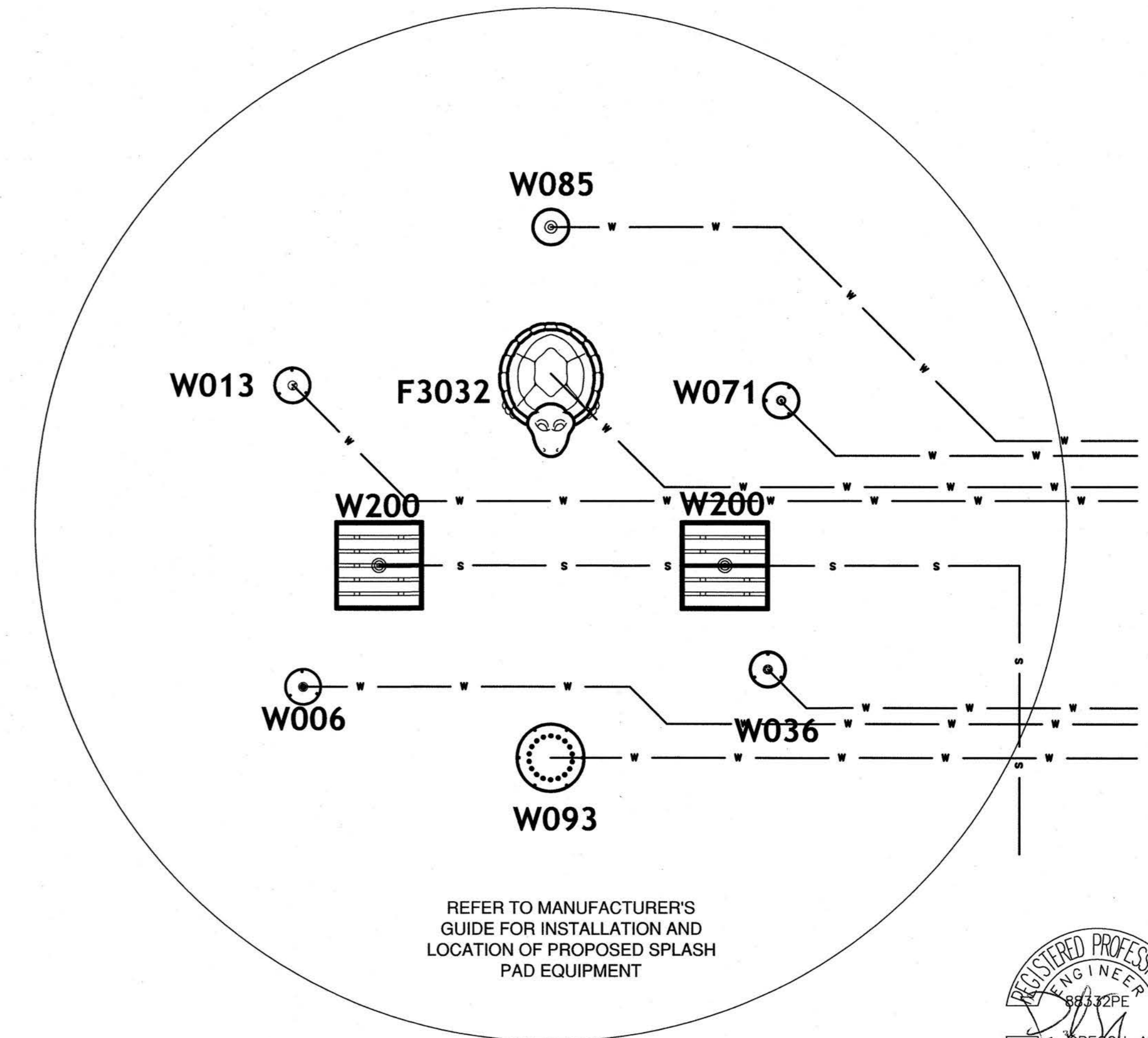
2 NEW SPLASH PAD VALVE SET UP  
5 N.T.S.



TRENCH SECTION

3 EXISTING SERVICE CONNECTION AND NEW VALVE BOX  
5 N.T.S.

4 NATIVE TRENCH  
5 N.T.S.



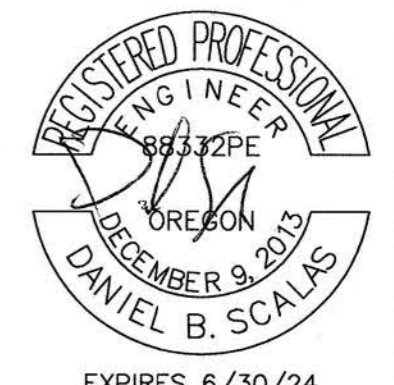
REFER TO MANUFACTURER'S GUIDE FOR INSTALLATION AND LOCATION OF PROPOSED SPLASH PAD EQUIPMENT

5 WATER EQUIPMENT DIAGRAM  
5 N.T.S.

BY	
DATE	
REVISION	
No.	
<b>McDONALD PARK SPLASH PAD FOR THE TOWN OF LAKEVIEW</b>	
<b>DETAILS</b>	

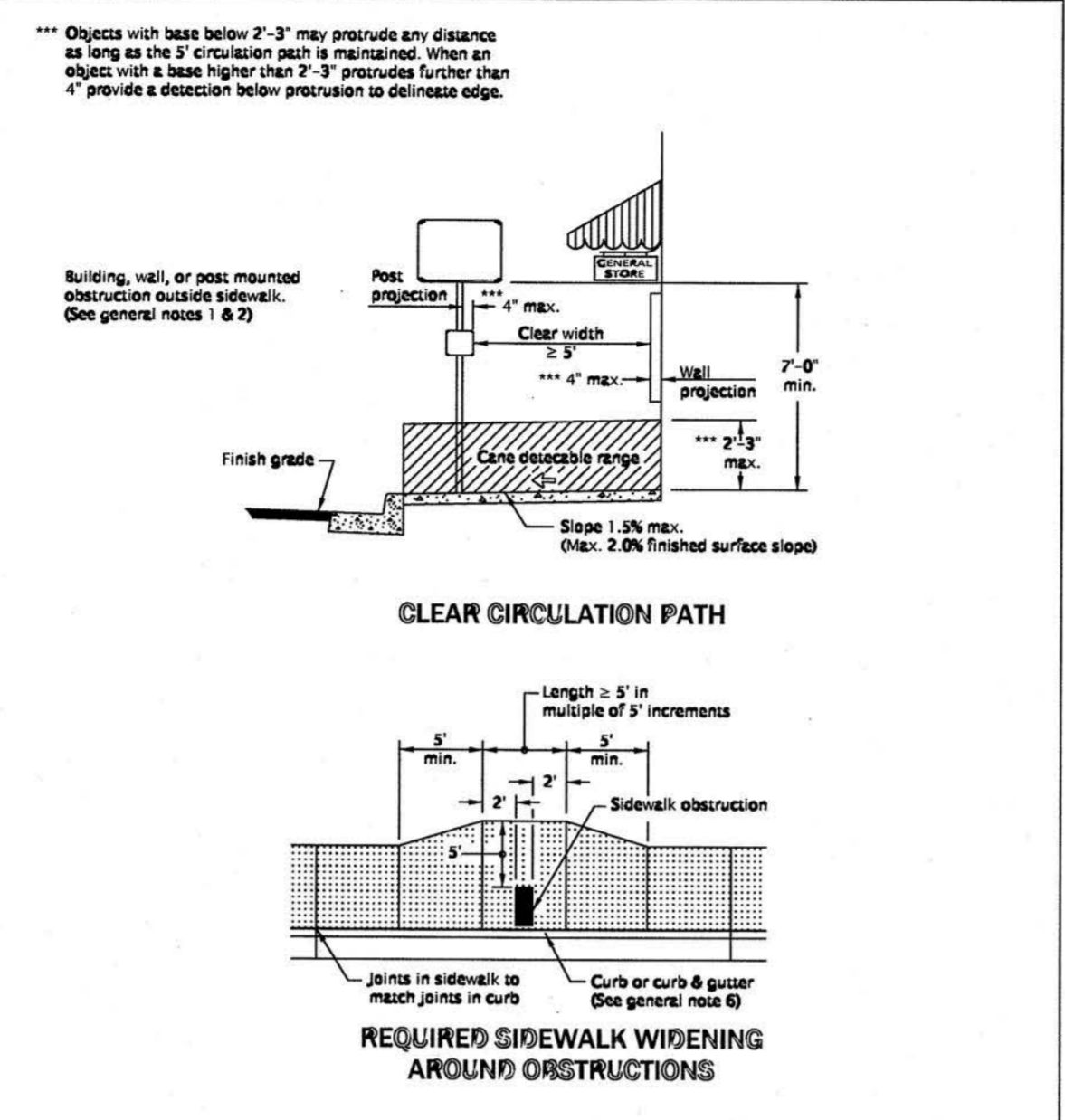
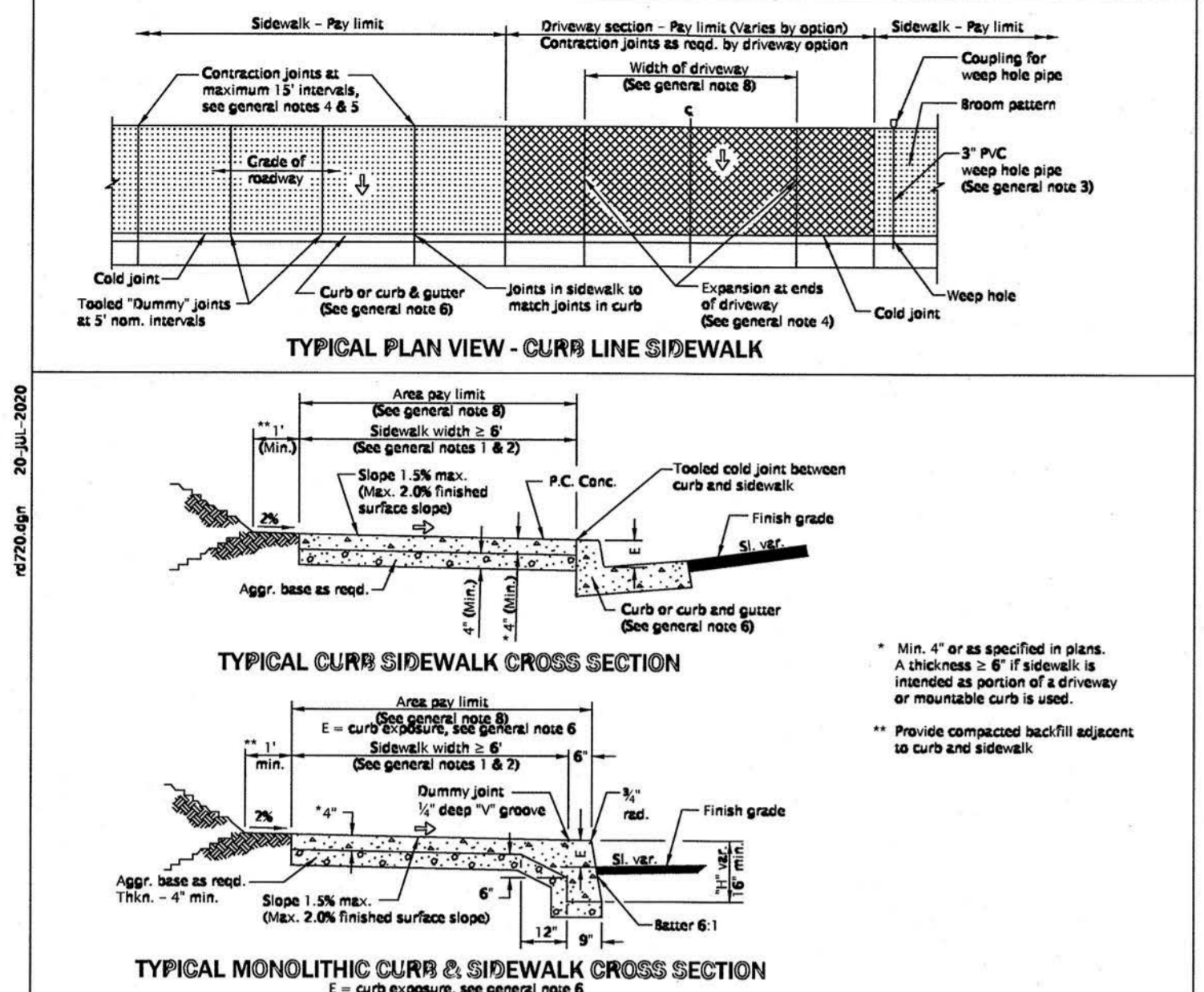
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DATE:	11-07-2022
PROJECT:	3948-02
FILE:	DETAILS
DESIGNED BY:	TSL
DRAWN BY:	TSL
CHECKED BY:	DBS
SURVEYED BY:	N/A
SCALE:	AS SHOWN
SHEET:	5 OF 11



EXPIRES 6/30/24

**C5**



**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. Include additional paved or unpaved 2' shy distance to vertical faces higher than 5' such as retaining walls, sound walls, fences and buildings.
2. Curb type and sidewalk width as shown on plans or as directed.
3. On sidewalks 8' and wider, provide a longitudinal joint at the midpoint.
4. Install 3" PVC weep hole pipes in sidewalks where shown on plans, and allowed by jurisdiction. Place expansion joints over top of pipe. See Std. Dwg. R0700 for weep hole details.
5. Provide expansion joints around poles, posts, boxes, at ends of each driveway, and other fixtures which protrude through or against the structures.
6. For sidewalk, monolithic curb & sidewalk, const. expansion joints at 45' maximum spacing. See Std. Dwg. R0722 for expansion joint details.
7. Const. contraction joints at 15' maximum spacing, and at ends of each curb ramp. See Std. Dwg. R0722 for contraction joint details.
8. For curb details, see Std. Dwgs. R0700 & R0701.
9. ODOT standard = "7".
10. Sidewalk details are based on applicable ODOT standards.
11. Fully lowered sidewalk shown; see project plans for the driveway design specified. For driveway details not shown, see Std. Dwgs. R0725, R0730, R0735, R0740, R0745 & R0750.
12. See project plans for details not shown.

**LEGEND:**

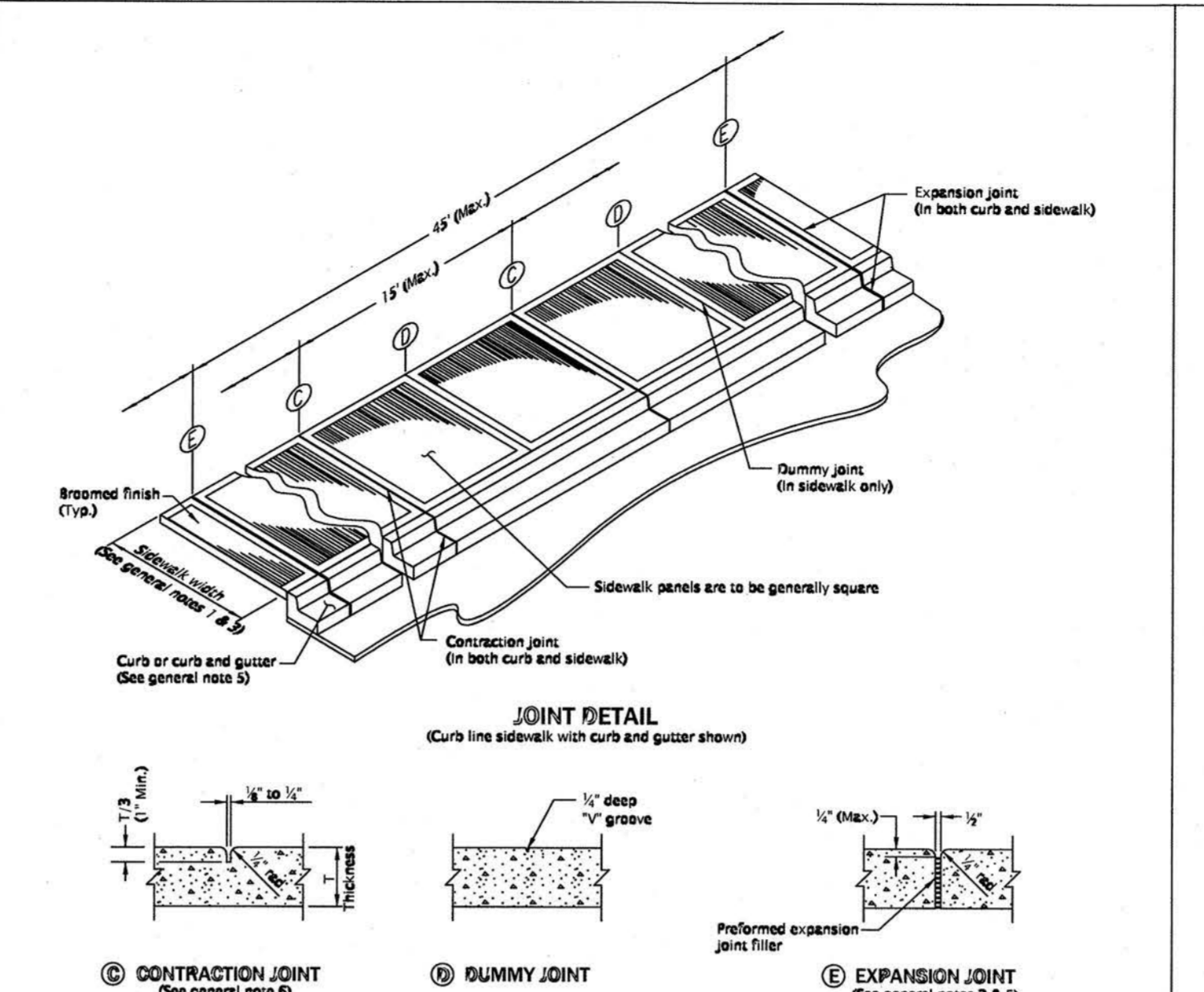
- Sidewalk pay limit.
- Driveway pay limit, varies by option. (See general note 8).
- Cross slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)

**OREGON STANDARD DRAWINGS**

**CURB LINE SIDEWALKS**

DATE: 2021

Effective Date: June 1, 2022 - November 30, 2022



**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. See Std. Dwgs. R0720 & R0721 for concrete sidewalk details. See project plans for sidewalk width, placement and design specified.
2. Provide expansion joints around poles, boxes, at ends of each driveway and other fixtures which protrude through or against the structures. For sidewalk, monolithic curb and sidewalk, construction expansion joints at 45' max. spacing.
3. On sidewalks 8' and wider, provide a longitudinal joint at the midpoint of sidewalk panel.
4. See Std. Dwgs. R0700 & R0701 for concrete curb details. See project plans for the curb design specified.
5. For curb ramps, do not place expansion joints within the limits of curb ramps and between separate concrete pours.
6. Const. contraction joints at 15' max. spacing, and at each curb ramp, driveway, sidewalk and curb.

**LEGEND:**

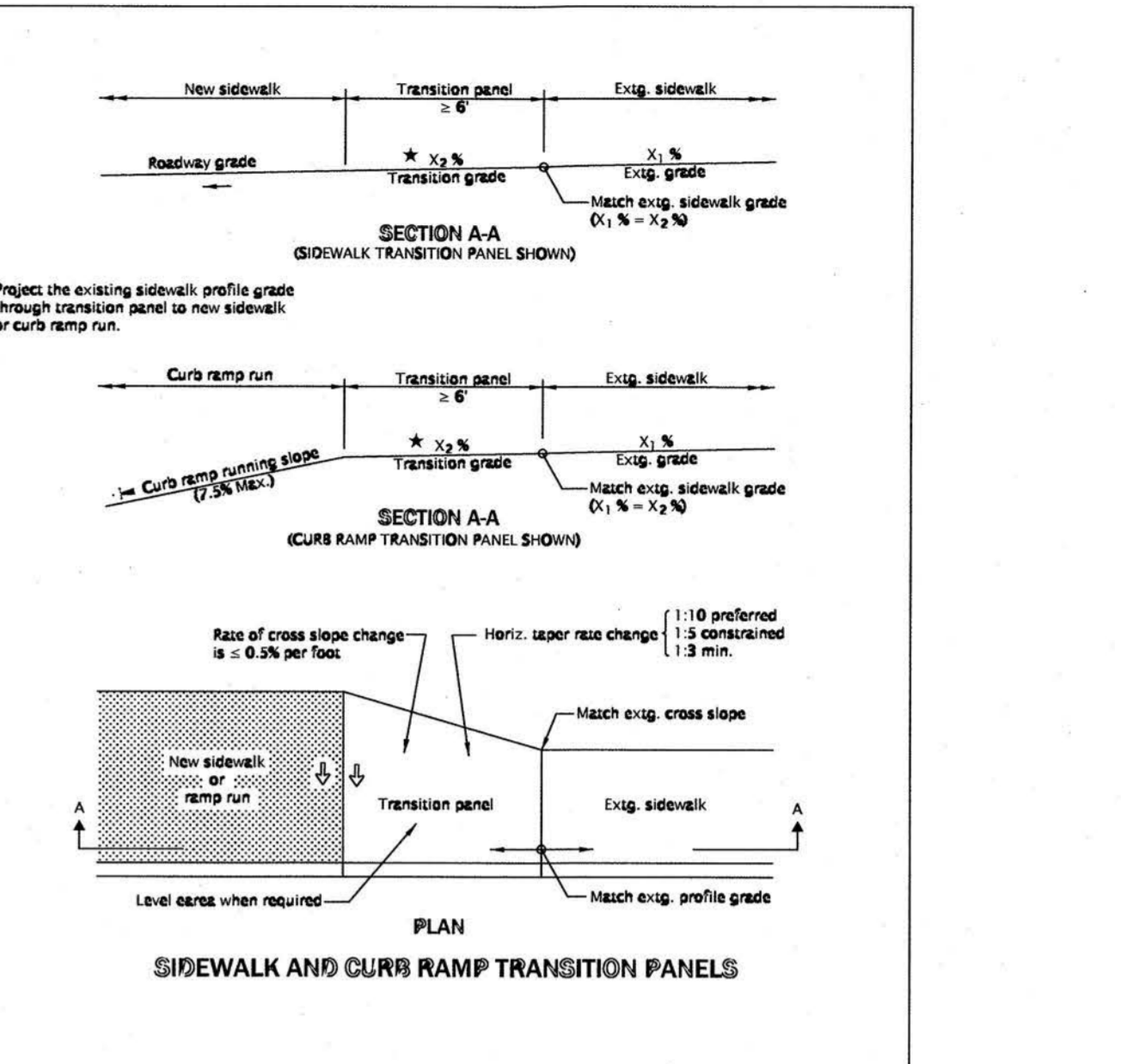
- New sidewalk or ramp run
- Slope 1.5% max. (Max. 2.0% finished surface slope) (normal sidewalk cross slope)
- Slope 7.5% max. (Max. 8.3% finished surface slope)
- Zero exposure

**OREGON STANDARD DRAWINGS**

**SIDEWALK JOINTS AND TRANSITION PANELS**

DATE: 2021

Effective Date: June 1, 2022 - November 30, 2022



**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. Project the existing sidewalk profile grade through transition panel to new sidewalk or curb ramp run.
2. Rate of cross slope change is 0.5% per foot.
3. Horiz. taper rate change is 1:10 preferred, 1:5 constrained, 1:3 min.

**LEGEND:**

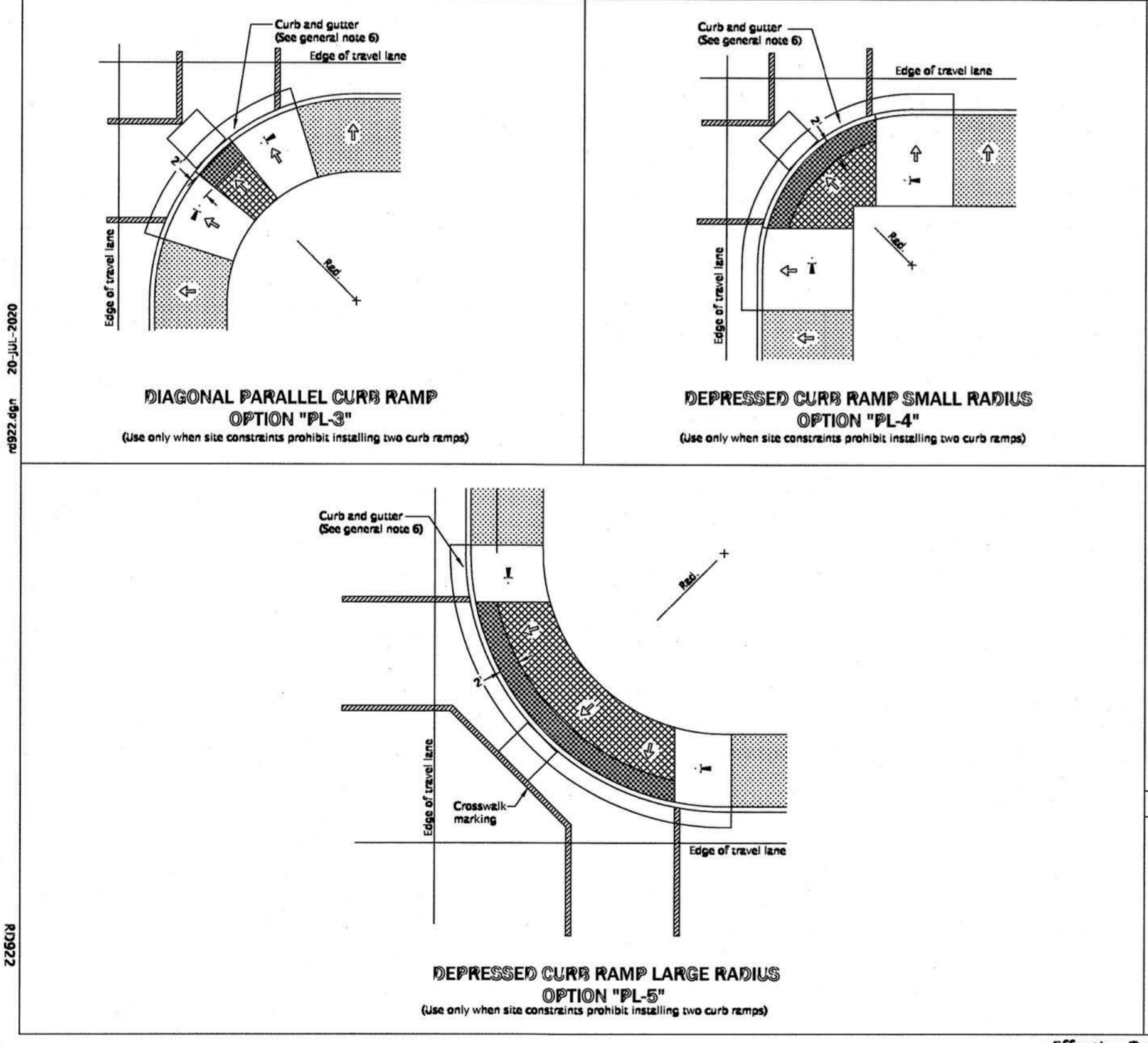
- Match exp. cross slope
- Match exp. profile grade

**OREGON STANDARD DRAWINGS**

**SIDEWALK JOINTS AND TRANSITION PANELS**

DATE: 2021

Effective Date: June 1, 2022 - November 30, 2022



**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. Curb ramp details are based on applicable ODOT Standards.
2. See project plans for details not shown. See Std. Dwgs. R0700 & R0701 for curbs. See Std. Dwg. R0720 & R0721 for sidewalks. See Std. Dwg. R0902 through R0908 for detectable warning surface installation details. See Std. Dwg. R0909 for parallel curb ramp details.
3. Tooled dummy joints are required at all curb ramp slope break lines. (See Std. Dwg. R0722).
4. Curb ramp slopes shown are relative to the true level horizon (zero bubble).
5. Place an inlet at upstream side of curb ramp or perform other approved design mitigation. Check the gutter flow depth at curb ramp locations to assure that the design flood does not overtop the back of sidewalk.
6. On or along state highways, curb and gutter is required at curb ramps.
7. Grade breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp run. Grade breaks shall not be permitted on the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be flush.
8. Only use curb ramp options allowed by jurisdiction. Single ramps require design exceptions on or along state highways.

**LEGEND:**

- Marked or intended crossing location
- Sidewalk
- Detectable warning surface
- Level area (turning space/landing) Unobstructed 4.5' x 4.5' With obstruction 4.5' x 3.5' (longer dimension in direction of pedestrian street crossing). For the purposes of this application, a max. 2.0% finished surface slope (for crosswalk) measured perpendicular in two directions is considered level.
- Cross slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)
- Running slope 7.5% max. (Max. 8.3% finished surface slope)
- 4'x4' clear space

**OREGON STANDARD DRAWINGS**

**PARALLEL CURB RAMP SINGLE RAMP**

DATE: 2021

Effective Date: June 1, 2022 - November 30, 2022

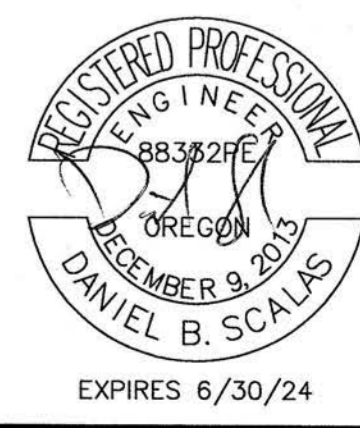
NO.	REVISION	DATE	BY

**McDONALD PARK SPLASH PAD FOR THE TOWN OF LAKEVIEW**

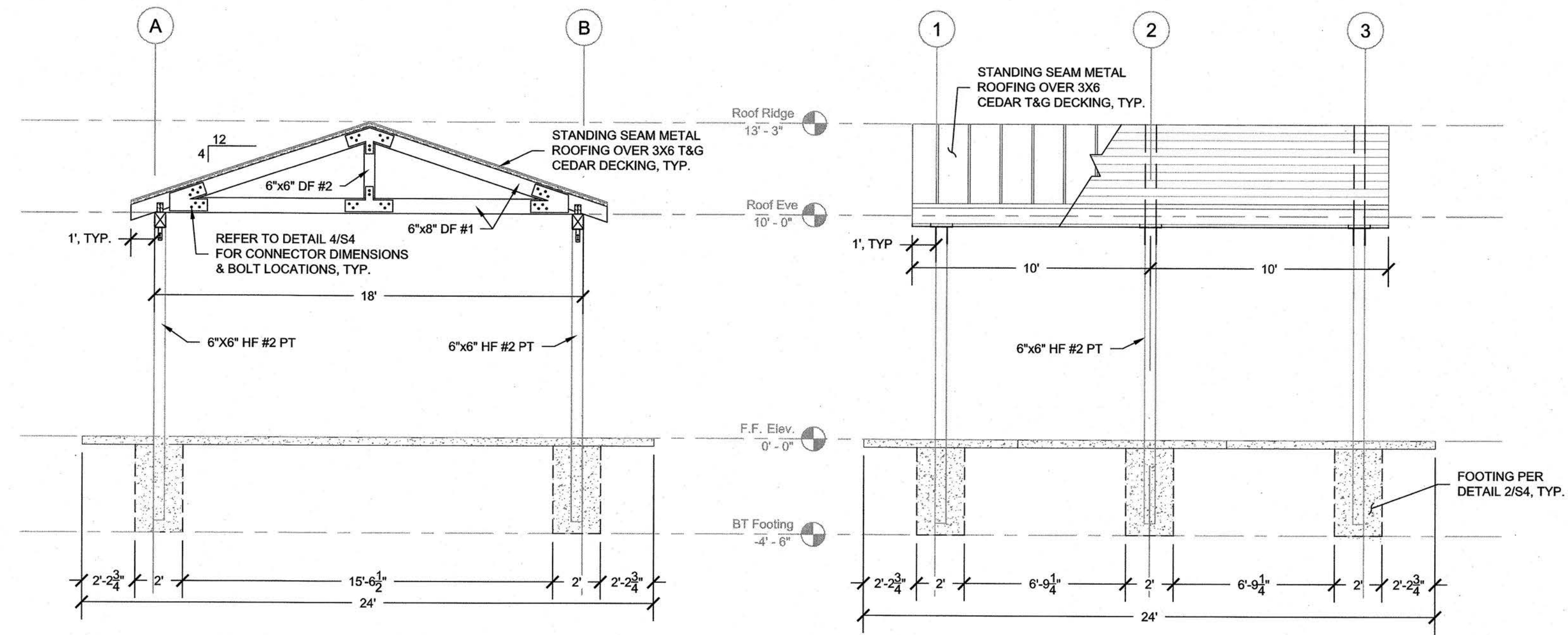
**MUNICIPAL DETAILS**

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SHEET:	6 OF 11

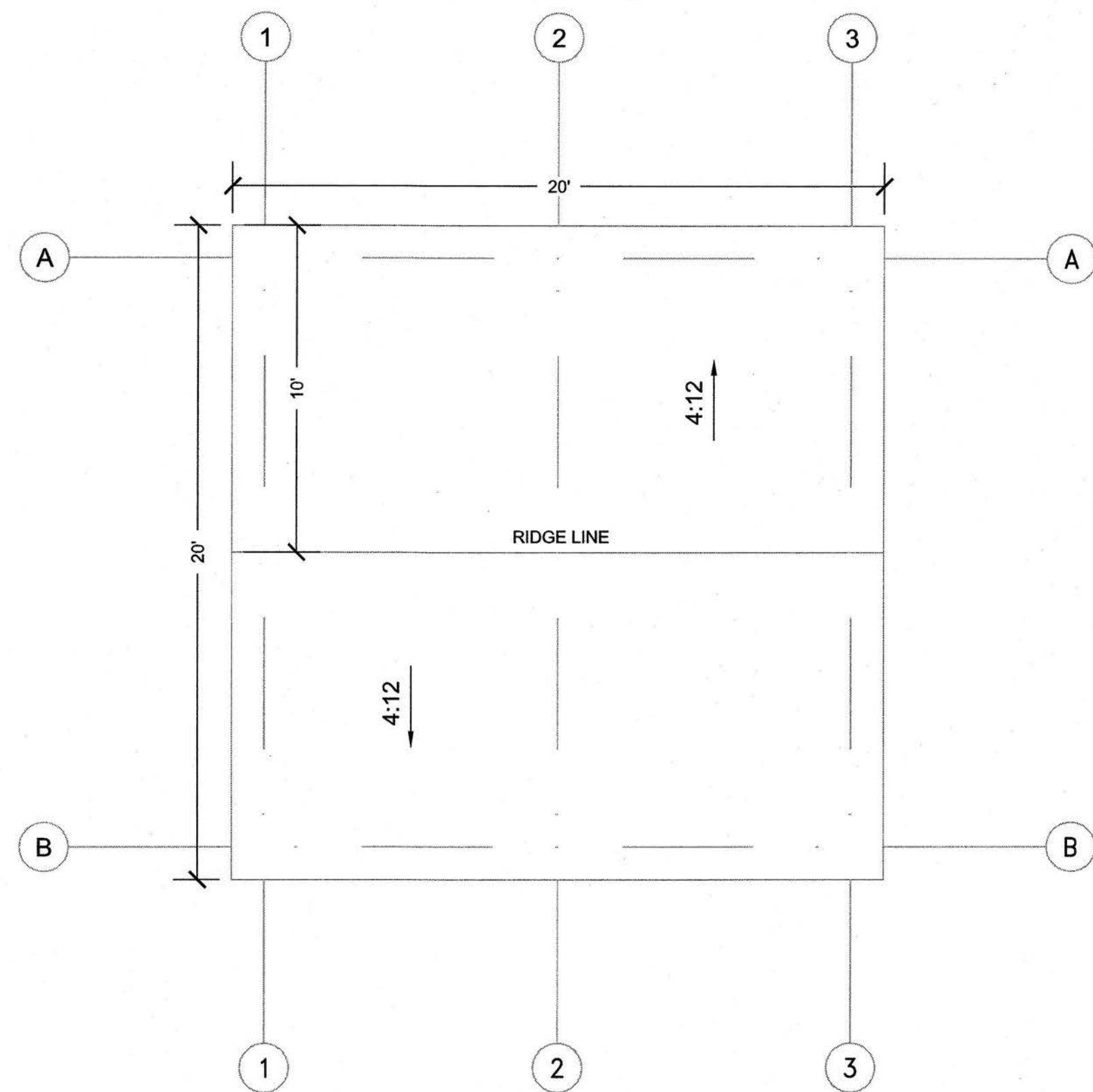


**C6**



1 WEST/EAST ELEVATION VIEW  
Scale: 1/4" = 1' - 0"

2 NORTH/SOUTH ELEVATION VIEW  
Scale: 1/4" = 1' - 0"



3 ROOF PLAN  
Scale: 1/4" = 1' - 0"

**BUILDING CRITERIA:**

APPLICABLE CODES:	2019 OREGON STRUCTURAL SPECIALTY CODE
TYPE OF CONSTRUCTION:	V-B
SPRINKLERED:	NO
NUMBER OF STORIES:	1
FIRST FLOOR AREA:	400 SQ. FT.
SECOND FLOOR AREA:	N/A
BUILDING AREA:	400 SQ. FT.
BUILDING HEIGHT:	13'-3" ABOVE GRADE
ATTIC VENTILATION:	N/A - OPEN STRUCTURE
CRAWLSPACE VENTILATION:	N/A - SLAB ON GRADE FOUNDATION

**BUILDING NOTES:**

- CONTRACTOR SHALL CONFIRM WITH CLIENT OR ENGINEER OF RECORD ALL FINISHES OR ARCHITECTURAL ELEMENTS PRIOR TO ORDERING MATERIALS.

NO.	REVISION	DATE	BY

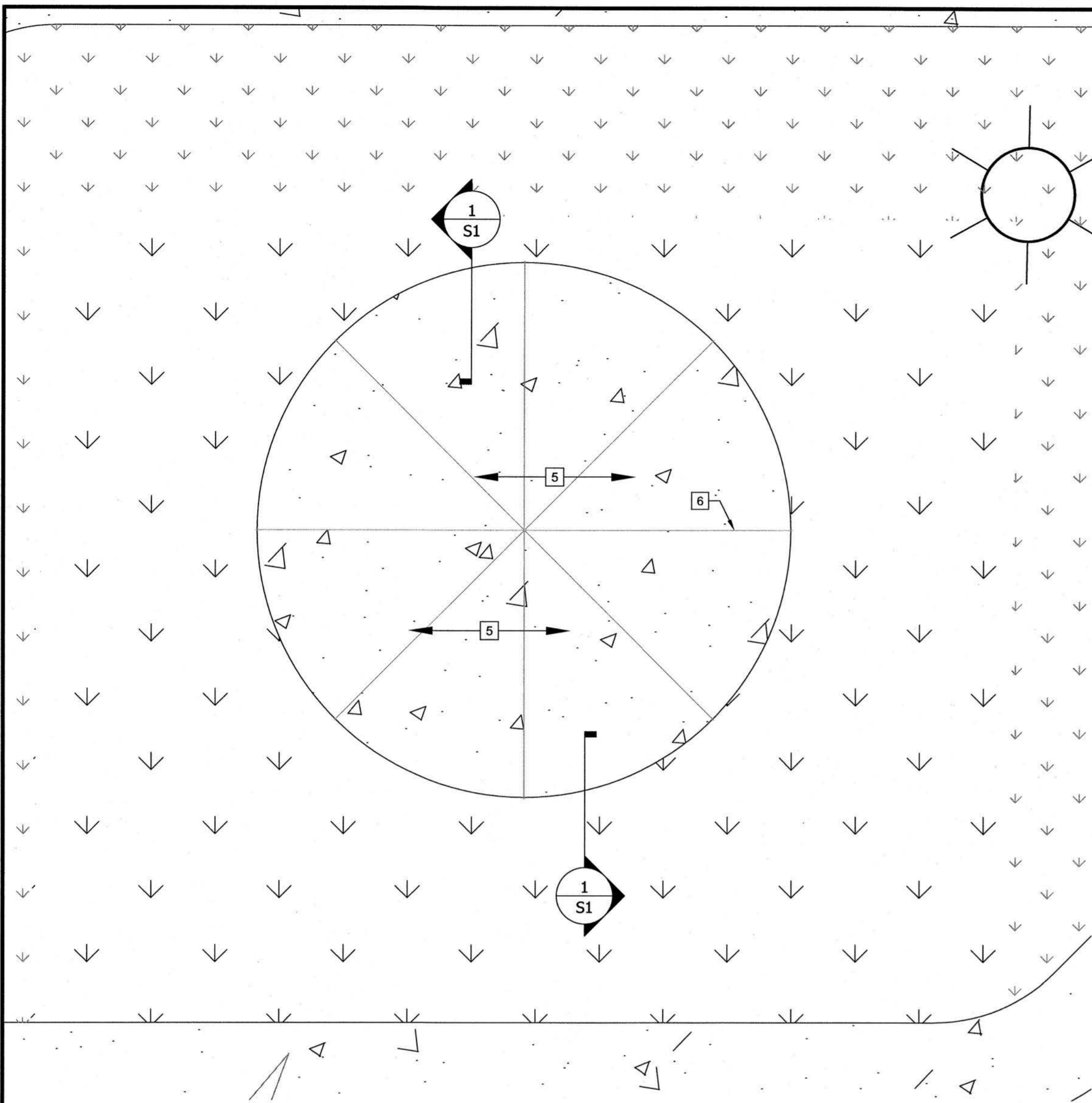
**McDONALD PARK SHADE STRUCTURE  
FOR THE  
TOWN OF LAKEVIEW  
ARCHITECTURAL PLAN**

**A-E ADKINS**  
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o / 541.884.4666  
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1435 ESPLANADE AVENUE, KLAMATH FALLS, OR 97601  
SERVING S. OREGON & N. CALIFORNIA  
ENGINEERING • SURVEYING • PLANNING • TESTING

DATE:	11-07-2022
PROJECT:	3948-02
FILE:	STRUC
DESIGNED BY:	TSL
DRAWN BY:	TSL
CHECKED BY:	MDM
SURVEYED BY:	N/A
SCALE:	AS SHOWN
SHEET:	7 OF 11



**A1**



1 SPLASH PAD PLAN VIEW  
Scale: 3" = 1' = 0"

# FOUNDATION NOTES:

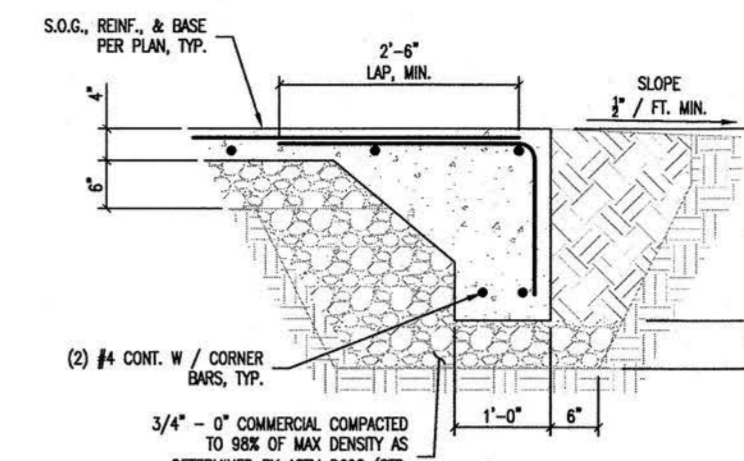
- REFER TO THIS SHEET FOR TYPICAL STRUCTURAL REQUIREMENTS.
- THE CONTRACTOR SHALL REFER TO CIVIL PLANS FOR ALL DIMENSIONS. DO NOT SCALE DRAWINGS.
- FINISH GRADE SHALL BE SLOPED AWAY FROM THE PAD AT 1/2" PER 1'-0" FOR 10'-0" MIN.
- ALL FOUNDATION SYSTEMS SHALL BEAR ON FIRM UNDISTURBED NATIVE SOIL OR COMPACTED STRUCTURAL FILL. MAXIMUM BEARING PRESSURE IS ASSUMED TO BE 1,500PSI UNLESS INDICATED OTHERWISE.
- 4" THICK CONCRETE SLAB ON GRADE WITH # 4 REBAR @ 12" O.C. EACH WAY AT SLAB MID THICKNESS OVER 6" 3/4" - 0" COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR.) PENETRATIONS THROUGH SLAB SHALL HAVE MIN. 3" CLEAR SPACE BETWEEN REBAR AND PENETRATION, TYP. SLAB IS TO BE BROOM FINISHED WITH STROKES RUNNING FROM PAD CENTER TO PERIMETER.
- CONTROL JOINT PER DETAIL 3, TYP.
- PENETRATIONS THROUGH SLAB SHALL BE PER DETAIL 2, TYP.

STRUCTURAL GENERAL NOTES - APPLICABLE TO ALL CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS

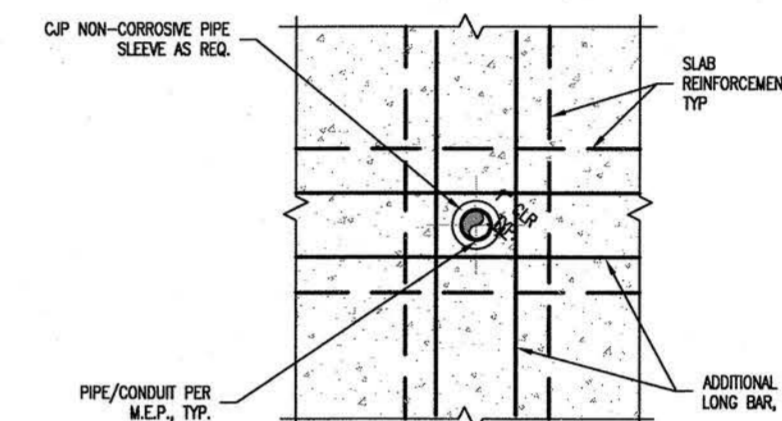
- A. DESIGN SCOPE**
- Structural Design shown on Sheet S1 by Adkins Engineering & Surveying, LLP, ACE, includes the following items.
    - Foundation Plan
  - Structural design shown on Sheet S1 may not include:
    - Mechanical, Electrical, or Plumbing items as it relates to the project. Refer to Civil/MEP plans for additional information.
  - Typical structural details provided for this project illustrate "nominal" conditions. They are not necessarily drawn to scale. The intent is to show important construction information such as member size, number and size of fasteners ect. The contractor is solely responsible for verifying specific dimensions/angles and other conditions that may exist.
- B. GENERAL REQUIREMENTS**
- All work shall conform to the requirements of the 2019 Oregon Structural Specialty Code and any applicable local ordinances except where other notes are more restrictive.
  - Drawings are not to be scaled. Written dimensions shall govern construction. The contractor shall verify dimensions with the architectural drawings and the site conditions prior to construction and any discrepancies shall be brought to the attention of the architect and the engineer so that clarification can be made. All dimensions related to existing conditions shall be verified by the contractor.
  - The contractor shall notify the engineer in writing of any discrepancies on the drawings requiring clarification or revisions before commencing with work.
  - At all times the contractor shall be solely responsible for conditions at the jobsite. Neither the owner nor Architect/Engineer will enforce safety measures/regulations. The contractor shall design, construct, and maintain all safety devices and programs, including safety of persons and property, design, adequacy, and safety of temporary shoring, bracing, formwork, scaffolding, erection sequence and methods etc.
  - The engineer's structural observation and site visits are not intended to include review of the above items.
  - The contractor shall furnish all labor, materials, and equipment necessary to complete the work shown or inferred by these drawings.
  - Where construction details are not shown or noted for any part of the work, such details shall be the same as for similar work shown on the drawings.
  - In case of conflict, notes and details on the drawings take precedence over the general notes and typical details.
  - The contractor shall provide manufacturer's product evaluation reports (ICC - ES Reports) and a list of all proposed substitutions to the Engineer for review and written approval before fabrication. Such review shall be on a time and materials basis with no guarantee approval will be granted.
  - Pipes, ducts, sleeves, chases, etc. shall not be placed in slabs, beams, or walls unless specifically shown or noted nor shall any structural member be cut for pipe, ducts, etc., unless specifically shown. Obtain written approval prior to installation of any additional holes, ducts, etc.
  - Locate and protect underground or concealed conduit, plumbing or other utilities where new work is being performed.
  - All existing construction is shown schematic only. The contractor is responsible to verify actual conditions and allow for them in his bid.
  - All communication shall be in writing. No verbal communications, decisions, instructions or approvals shall be valid.
- C. FOUNDATION (Spread Footings)**
- Adkins Engineering & Surveying recommends that the owner/contractor hire a Geotechnical Engineer licensed by the state of Oregon to evaluate the site and prepare a report of their findings. Due to the lack of such a report for this site, the foundation has been designed using a 1,500 psf. presumptive allowable bearing capacity per OSSC table 1804.2. The contractor shall report in writing to the engineer, any condition mitigating the above assumption.
  - Footings shall be founded a minimum of 12" below undisturbed ground surface. The footings shall also extend below the frost line as determined by the local Building Official. Frost depth for Lake County is 24" below finished grade.
  - If the stated bearing capacity, as determined by the Building Official or a Geotechnical Engineer, is not encountered, the contractor shall notify the Engineer of Record (EOR), in writing.
  - Footings and concrete slabs on grade shall bear on undisturbed native soil or approved structural fill compacted to a minimum of 95% under slab and 98% under footings of the maximum dry density as determined by ASTM test method D-698 (Standard Proctor).
  - Soft soil shall be removed and replaced with approved structural fill and compacted per note 4 above or the contractor may provide lean concrete.
  - Wherever practical native soil or compacted structural fill shall be proof rolled with a fully loaded dump or water truck (loaded to 20 tons). If excessive rutting or pumping occurs the proof-roll has failed.
  - All excavation, soil removal, proof rolling and/or compaction shall be observed and tested by a geotechnical engineer. Observation and compaction reports shall be sent to the Architect, Engineer, and the Building Official.
  - Excavation shall be properly backfilled. Back fill for walls shall be pervious material acceptable to the Geotechnical Engineer. Do not place back fill behind walls before they have attained their design strength. Shore and protect walls from lateral loads until the supporting members are in place and have developed specified strength.
  - Use light weight equipment to compact the soil within 2 feet around foundation/basement walls.
  - Footings shall be stepped as required to maintain 12" below undisturbed native soil and also below frost depth noted above.
  - Roof and area drainage shall be directed away from the foundation.
  - Finish grade shall slope away from the foundation at a rate of 1/2 inch per foot for a minimum of 10 feet unless an engineer approved alternate drainage system is provided.
- D. CONCRETE**
- All concrete work shall conform to Chapter 19 of the 2019 Oregon Structural Specialty Code.
  - MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE  $f_c$  (OSSC Table 1904.2.2)

TYPE OR LOCATION OF CONCRETE	MINIMUM SPECIFIED COMPRESSIVE STRENGTH ( $f_c$ @ 28 days, psi)
Basement walls and foundations not exposed to weather	2,500 (a)
Basement slabs and interior slabs on grade, except garage floor slabs	2,500 (a)
Basement walls, foundation walls, exterior walls, and other vertical concrete surfaces exposed to weather	3,000 (b)
Driveways, curbs, walks, patios, porches, carport slabs, steps and other flatwork exposed to the weather, and garage floor slabs	3,500 (b)(c)

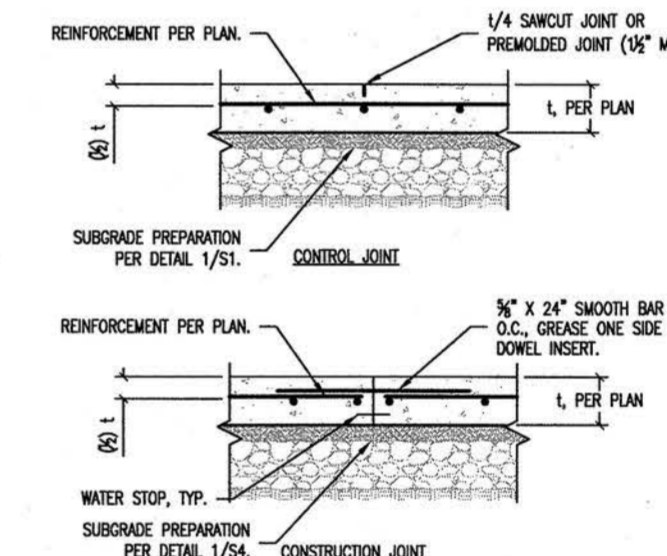
- Concrete in these locations that can be subjected to freezing and thawing during construction shall contain the proper admixtures to obtain 7% air entrainment.
  - Concrete in these locations shall contain the proper admixtures to obtain 7% air entrainment.
  - For garage floor slabs where a steel trowel finish is used the total air content required by section 1904.2.1 is permitted to be reduced to not less than 3 percent, provided the minimum specified compressive strength of the concrete is increased to 4,000 psi.
  - 28 day Concrete compressive strength shall be verified by standard 28 day cylinder tests per ASTM C39.
- 3. Reinforcing Steel:**
- Shall conform to ASTM A615, Grade 60, for deformed bars unless noted otherwise.
  - Splices shall be 48 bar diameters with 24" minimum unless noted otherwise.
  - Where horizontal reinforcing is noted as "continuous" provide 2'-6" X 2'-6" corner bars at corners of bond beams, footings, walls, ect. Corner bars shall be of the same size, spacing, location, and quantity as the continuous reinforcing specified.
- When air temperature is above 85 degrees Fahrenheit or when wind exceeds 10 mph, place concrete in accordance with ACI 305, Hot Weather Concreting. When the average air temperature is below 40 degree Fahrenheit place concrete in accordance with ACI 306, cold weather concreting.
  - Per the aquatic playground manufacturer, all structural concrete must be a minimum of 3,000psi.



1 SPLASH PAD PERIMETER  
Scale: 3/4" = 1'-0"



2 PENETRATIONS THROUGH SLAB ON GRADE  
Scale: 3/4" = 1'-0"



- NOTES:
- CONSTRUCTION OR CONTROL JOINT LOCATIONS PER FOUNDATION/SLAB PLAN.
  - USE "EARLY ENTRY DRY CUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAW CUT SHORT DIRECTION FIRST.
  - PROMOTE CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQ. AREAS OF NO MORE THAN 100 SF, MAX PANEL ASPECT RATIO OF 1.3 TO 1.0.

3 SLAB ON GRADE JOINT DETAILS  
Scale: 3/4" = 1'-0"

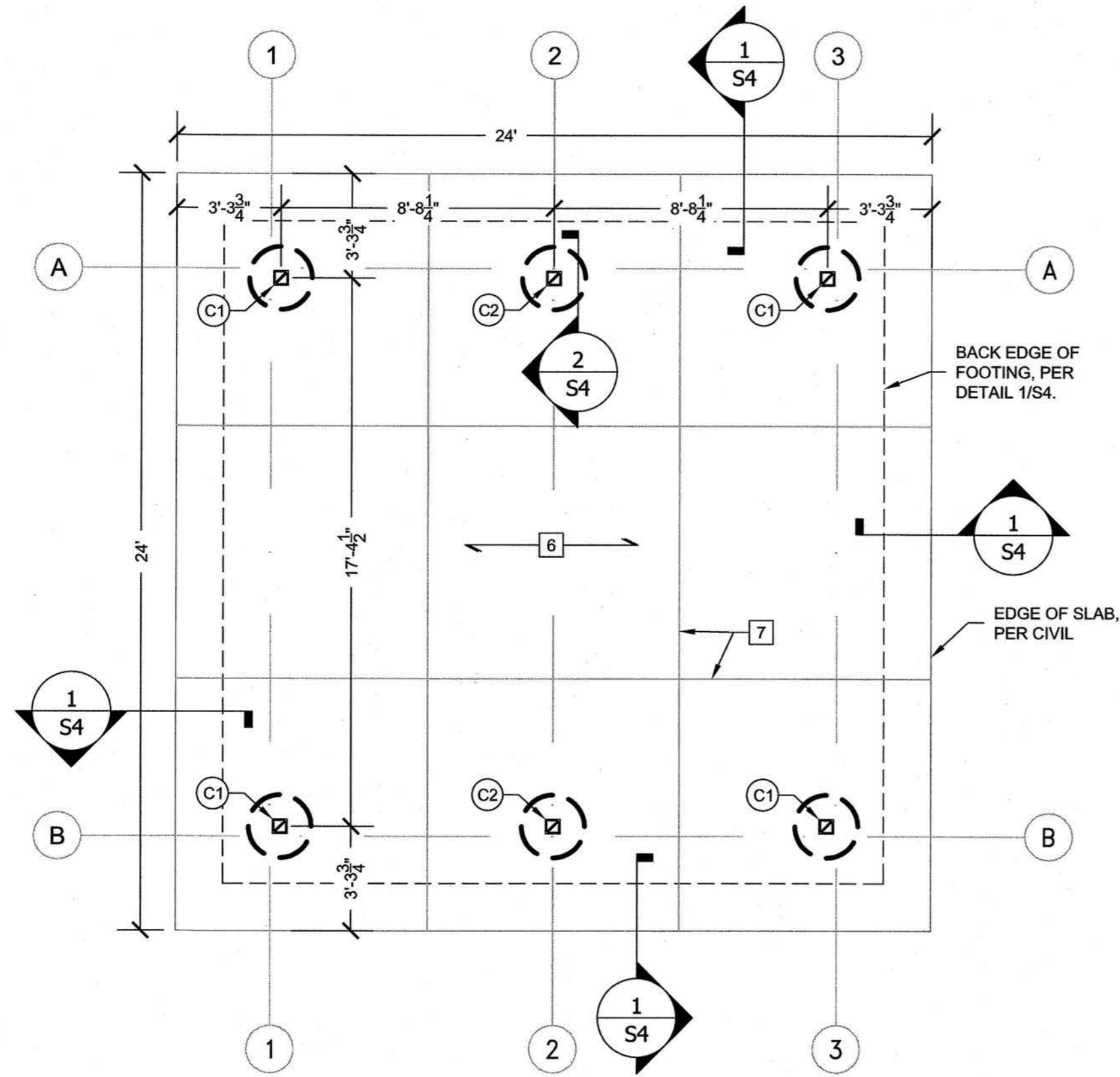
McDONALD PARK SPLASH PAD FOR THE TOWN OF LAKEVIEW STRUCTURAL PLAN	REVISION	DATE	BY
	No.		
<b>AL ADKINS</b> ENGINEERING & SURVEYING 1435 ESPLANADE AVENUE, KLAMATH FALLS, OR 97601 SERVING S. OREGON & N. CALIFORNIA ENGINEERING • SURVEYING • PLANNING • TESTING			
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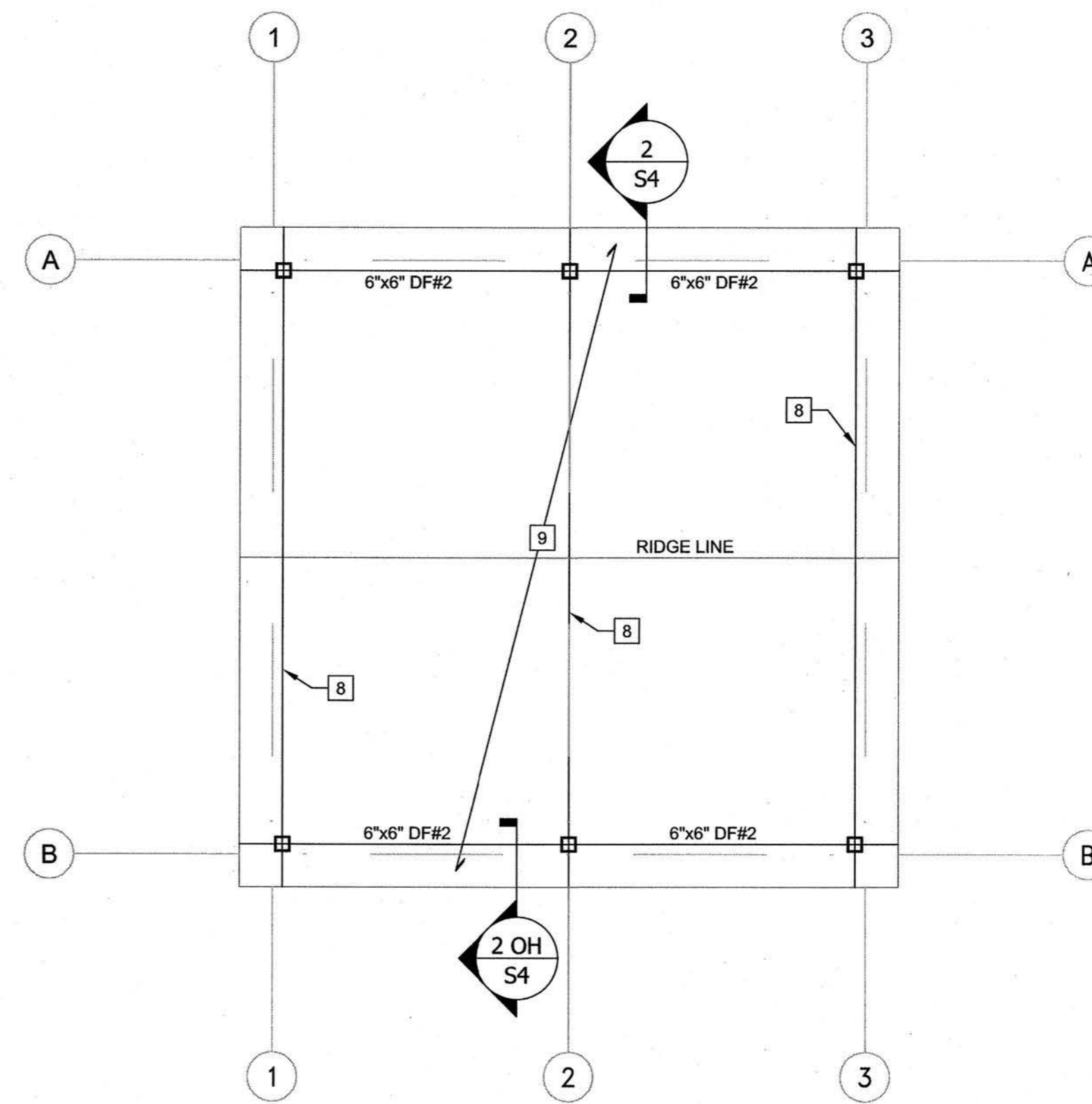
S1







**1 FOUNDATION PLAN**  
Scale: 1/4" = 1' - 0"



**2 ROOF FRAMING PLAN**  
Scale: 1/4" = 1' - 0"

**# CONSTRUCTION NOTES:**

- REFER TO SHEET S2, STRUCTURAL GENERAL NOTES, FOR TYPICAL REQUIREMENTS.
- THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS. DO NOT SCALE DRAWINGS.
- FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION AT 1/2" PER 1'-0" FOR 10'-0" MIN.
- CENTER FOOTING UNDER WALLS AND POSTS UNLESS NOTED OTHERWISE ON PLANS AND/OR DETAILS.
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED NATIVE SOIL OR COMPACTED STRUCTURAL FILL. MAXIMUM BEARING PRESSURE IS ASSUMED TO BE 1,500PSI UNLESS PROJECT GEOTECH REPORT INDICATES OTHERWISE.
- 4" THICK CONCRETE SLAB ON GRADE WITH #4 REBAR @ 18" O.C. EACH WAY AT SLAB MID THICKNESS OVER 6" 3/4" - 0" COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR). PENETRATIONS THROUGH SLAB SHALL HAVE MIN. 3" CLEAR SPACE BETWEEN REBAR AND PENETRATION, TYP.
- CONTROL JOINT PER DETAIL 3/S4, TYP.
- HEAVY TIMBER TRUSSES - REFER TO ELEVATION VIEWS AND DETAIL 2/SHEET S4 FOR ADDITIONAL INFORMATION.
- INSTALL 3"x6" YELLOW CEDAR #1 DECKING OVER HEAVY TIMBER TRUSSES. REFER TO DETAIL 2/SHEET S4 FOR ADDITIONAL INFORMATION.

**SHEET LEGEND:**

- WOOD POST BELOW
- BEAM/GIRDER/TRUSS/HEADER PER PLAN.
- PURLIN/TRUSS CONNECTION W/SIMPSON HANGER PER PLAN.

**WOOD COLUMN SCHEDULE**

MARK	TYPE	SIZE	CONNECTION		NOTES
			BASE	CAP	
C1	HF #2 PT	6" X 6"	EMBEDDED	ECCU66	
C2	HF #2 PT	6" X 6"	EMBEDDED	CC66	

No.	REVISION	DATE	BY

**McDONALD PARK SHADE STRUCTURE  
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TOWN OF LAKEVIEW**

**FOUNDATION & ROOF PLANS**

**ALEADKINS**  
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SHEET: 10 OF 11



**S3**

