

ATTACHMENT A

Well Logs

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Well No. 3

WELL LOG

No. Decla # 410

Date Dec., 1944

Cert. #361-D

Record by G. A. Conley

Source G. W. Decla. Claim

Location: State of WASHINGTON

County Yakima

Area Selah Vie Home Tracts, in

Map block bounded by South

SW 1/4 SE 1/4 sec. 35 T14 N., R. 18 E.

DIAGRAM OF SECTION

Pr. Selah Ave. & Yakima Av. & W. of 5th
Street

Method of Drilling drilled Date Dec. 1944

Owner Town of Selah WELLS

Address Selah, Wash. "GID. HALL & ASSOCIATES"

Land surface, datum 1117 ft. above below

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
------------------	----------	---------------------	-----------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses if material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	<u>See following page</u>		
<u>Pump Test:</u>			
	<u>Dim: 431' x 16"</u>		
	<u>SWL: 4'</u>		
	<u>Dd: 40'</u>		
	<u>Yield: 400 g.p.m.</u>		
	<u>Casing: 16" dia. Schedule, from 0'</u>		
	<u>316'; 12" dia. from 302' to 377';</u>		
	<u>10" dia. from 366' to 433'.</u>		
	<u>Perforations:</u>		
	<u>1/2" to 1/2" perfor. from 322' to 338';</u>		
	<u>" " " " 383' to 386';</u>		
	<u>" " " " 406' to 430'.</u>		
	<u>OVER</u>		

Turn up

Sheet _____ of _____ sheets

LOG OF WELL: (Describe each stratum or formation clearly, indicate if water-bearing, and give thickness and depth as indicated.)

MATERIAL	Thickness (Feet)	Depth to Bottom (Feet)
Soil, sand and gravel	28'	28'
Sand and gravel	42'	70'
Red Clay	15'	85'
Gray Shale	5'	90'
Sandy Shale	20'	110'
Sand	5'	115'
Red Clay	10'	125'
Sand and Gravel	18'	143'
Sand	10'	153'
Sandy Clay	27'	180'
Brown Shale	31'	211'
Red Clay	99'	310'
Hard Sand Stone	10'	320'
Coarse Sand and Gravel	20'	340'
Red Clay	43'	383'
Sand and Gravel	4'	387'
Yellow Clay	18'	405'
Fine Sand	6'	411'
Coarse Sand	8'	419'
Sand	12'	431'

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Well No. 5

WELL LOG

No. Appli. 2220

Date September, 1951

Cert. 1348-A

Record by Don E. Gray

Source Driller's Record

Location: State of WASHINGTON

County Yakima

Area _____

Map _____

Lot 10, Blk. 11, A.H. Rivard Add. E.
to Selah $\frac{1}{4}$ sec. 36 T. 14 N., R. 18 W.
Drilling Co. G. D. Hall & Assoc.



Address _____

Method of Drilling _____

Date Aug. 18 1951

Owner Town of Selah

5

Address _____

Land surface, datum 1100 ft. above
below _____

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
------------------	----------	---------------------	-----------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Gravel & boulders	53	53
	Brown clay	147	200
	Fine sand & gravel	10	210
	Brown clay	120	330
	Blue clay	20	350
	Blue clay with streaks of shale & layers of sand	90	440
	Blue clay-streaks of gravel	10	450
	Blue clay	30	480
	Gravel-streaks of clay	10	490
	Gravel	50	540
	Gravel & porous basalt	10	550
	Porous basalt	10	560
	Hard basalt	18	578
	Pump Test:		

Turn up

(over)

Sheet _____ of _____

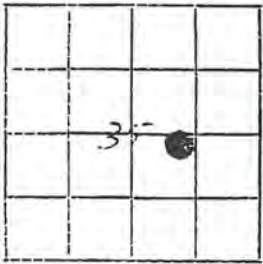
Well No. 6

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG Well #6 No. Appl: 5254
Cert: 2003-A

Date Sept. 21, 1961

Record by _____
Source driller's record



Location: State of WASHINGTON
County Yakima
Area _____

Map NW 1/4 SE 1/4 sec 35 T14 N, R18 E Diagram of Section

Drilling Co. Gray & Osborne, Engr.
Address 228 S. 2d St., Yakima, Wash.

Method of Drilling _____ Date 2-23, 1960

Owner Town of Selah, Wash. #6
Address _____

Land surface, datum 115.6 ft. above
below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
-------------	----------	------------------	--------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Soil & gravel	12	12
	Sand, rock (water)	56	68
	Clay, yellow, some gravel	5	73
	Sand, rock	177	250
	Sand, rock, some gravel	6	256
	Sand, some clay	25	285
	Sand, gravel, some clay	13	298
	Clay, yellow, some sand	6	304
	" " some gravel	3	307
	" " some gravel & sand	9	316
	Sand & gravel	10	326
	Coarse sand & gravel	4	330
	Gravel, clay, gray	5	335
	" " yellow	5	340
	Sand, rock, some clay	5	345
	Shale, brown, some gravel	9	354
	Clay, red, shale	18	372

Turn up (over) Sheet _____ of _____ sheets

WELL LOG.—Continued

No.

A. 5254²

Well No. 6 cont.

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Town of Selah Depth forward	—	372
	Clay, gray	8	380
	Clay, red, some sand & gravel	2	382
	Clay, gray & shale, sticky	2	384
	Shale, green & clay, gray	28	412
	Clay, green with sand	4	416
	Sand, blue rock & clay	2	418
	Clay, green, with sand	2	420
	Clay, blue with shale	24	444
	Clay, blue, with sand	6	450
	Sand & gravel, some clay	4	454
	Sand, blue, rock	4	458
	Clay, blue, shale, some gravel	2	460
	Clay, blue & shale	3	463
	Clay, blue & shale, sticky	2	465
	Clay, blue & shale	21	486
	Sand, blue, SOME clay	10	496
	Sand, blue some clay	2	498
	Clay, blue sand & gravel	2	500
	Sand, blue, clay & some shale	5	505
	Clay, blue, shale & some sand	10	515
	Clay, blue, shale	11	526
	" " " sticky	4	530
	" " "	10	540
	Sand & rock, gray, clay	3	543
	Sand & rock, blue	4	547
	Basalt, black sand	7	554
	Basalt, black	6	560
	" grey	20	580
	" black	62	642
	" gray	9	651
	Sand & gravel, wood, blk.	13	664
	Sand, gravel, boulders	4	668
	Sand, blue	7	675

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Well No. 6 cont

WELL LOG Well #6-contd. No. 4,5254

Date....., 19.....

Record by.....

Source.....

Location: State of WASHINGTON

County.....

Area.....

Map.....

..... ¼ sec..... T..... N., R..... E.
W.

Diagram of Section

Drilling Co.....

Address.....

Method of Drilling..... Date....., 19.....

Owner Town of Selah

Address.....

Land surface, datum..... ft. above
below

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
------------------	----------	---------------------	-----------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Forward		675
	Sand, blue, gravel with clay	5	680
	Sand, fine, blue, some clay	4	684
	Sand, rock, clay, brown	17	701
	Clay & shale, brown, some sand	11	712
	Sand, brown, with clay	4	716
	Sand, gray, with clay	4	720
	Clay, blue with shale & sand	10	730
	Sand, blue, rock	8	738
	Shale, blue with clay & sand	7	745
	Sand, blue, caving	8	753
	Sand, blue, some gravel & clay	22	775
	Shale & clay, green, some sand	5	780

Turn up

(over)

Sheet..... of..... sheets

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Town of Selah Depth forward	—	780
	Clay, gray & green	7	787
	Clay, gray	33	820
	Clay, green & blue, with shale	12	832
	Sand & gravel, blue, with basalt, black	2	834
	Basalt, black	27	861
	Basalt, black, with shale	6	867
	Basalt, black with shale & sand	7	874
	Sand, rock, shale, blue	31	905
	Shale & clay, green, some rock	10	915
	Basalt, black, porous, some shale	3	918
	Basalt, black	34	952
	Clay, gray, & basalt	8	960
	Clay, sand, basalt, gray	3	963
	Basalt, some clay	3	966
	PUMP TEST:		
	Dim. 20x16x10x8"x966"		
	SWL: 6 ft.		
	DD: 100 ft.		
	Yield: 1500 g.p.m.		
	Water Temp. 69°F.		
	Type & size of pump: Turbine, 1000 g.		
	CASING:		
	20" diam. from 0 to 543 ft.		
	16" " " 526 to 553 ft.		
	10" " " 537 to 829 ft.		
	8" " " 819 to 919 ft.		
	8" " open hole " 919 to 966 ft.		
	PERFORATIONS: 86 to 164 ft.		
	250 to 298 ft.		
	316 314 to 345 ft.		
	554 to 651 ft.		



Water Well Report

Original - Ecology, 1st copy - owner, 2nd copy - driller.

Construction/Decommission **375748**

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

PROPOSED USE: Domestic Industrial Municipal
 DeWater Irrigation Test Well Other _____

TYPE OF WORK: Owner's number of well (if more than one) 8
 New well Reconditioned Method: Dug Bored Driven
 Deepened Cable Rotary Jetted

DIMENSIONS: Diameter of well 16x10 inches, drilled 674 ft.
 Depth of completed well 670 ft.

CONSTRUCTION DETAILS
 Casing Welded Pitless 4x4 Diam from 42 ft to 5 ft.
 Installed: Liner installed 16 Diam from 5 ft to 304 ft.
 Threaded Diam from _____ ft to _____ ft.

Perforations: Yes No
 Type of perforator used _____
 SIZE of perfs: _____ in by _____ in and no. of perfs from _____ ft to _____ ft.

Screens: Yes No K-Pac Location _____
 Manufacturer's Name: Alloy
 Type V-wire wrap Model No. 304 SS
 Diam 10 Slot size 040 from _____ ft to _____ ft.
 Diam _____ Slot size _____ from _____ ft to _____ ft.

Gravel/Filter packed: Yes No Size of gravel/sand CSS 18x12
 Materials placed from 264 ft to 674 ft.

Surface Seal: Yes No To what depth? 304 *including formation seal*
 Material used in seal cement, except pitless interval is bentonite
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata _____
 Method of sealing strata off _____

PUMP: Manufacturer's Name Goulds
 Type submersible HP 200

WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
 Static level _____ ft. below top of well Date _____
 Artesian pressure 1/2 ft abv ground lbs per square inch Date 4/6/10
 Artesian water is controlled by 6" valve on side & flange on top of pitless
 (cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? Schneider
 Yield: 1100 gal/min. with 183 ft. drawdown after 24 hrs.
 Yield: _____ gal/min. with _____ ft. drawdown after _____ hrs.
 Yield: _____ gal/min. with _____ ft. drawdown after _____ hrs.
 Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
 Time Water Level Time Water Level Time Water Level
 _____ _____ _____ _____ _____ _____
 Date of test began 11/24/09
 Bailor test _____ gal./min with _____ ft. drawdown after _____ hrs.
 Air test _____ gal./min with stem set at _____ ft for _____ hrs.
 Artesian flow _____ g p m. Date _____
 Temperature of water 60 F Was a chemical analysis made? Yes No

Current Notice of Intent No. WE10576

Unique Ecology Well ID Tag No. AAS171

Water Right Permit No. 1050A & cert1, p36

Property Owner Name City of Selah

Well Street Address 218 S 3rd St

City Selah County Yakima

Location SW1/4-1/4 SE 1/4 Sec 35 Twn 14 R-18 circle one

Lat/Long (s, t, r) _____ Lat Deg _____ Lat Min/Sec _____
 still REQUIRED) Long Deg _____ Long Min/Sec _____

Tax Parcel No. 18143543008

CONSTRUCTION OR DECOMMISSION PROCEDURE
 Formation Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information indicate all water encountered. (USE ADDITIONAL SHEETS IF NECESSARY.)

MATERIAL	FROM	TO
See attached formation log.		
Screen Assembly.	*	*
J receptor and 12x10 std bell reducer	264	268
10" x .365 blank	268	297
10" PS screen	297	302
10" x .365 blank	302	307
10" PS screen	307	357
10" x .365 blank	357	376
10" PS screen	376	391
10" x .365 blank	391	403
10" PS screen	403	423
10" x .365 blank	423	429
10" PS screen	429	444
10" x .365 blank	444	513
10" PS screen	513	523
10" x .365 blank	523	542
10" PS screen	542	547
10" x .365 blank	547	597
10" PS screen	597	612
10" x .365 blank	612	618
10" PS screen	618	628
10" x .365 blank	628	641
10" PS screen	641	666
10" x .365 blank	666	670

RECEIVED

MAY 12 2010

DEPARTMENT OF ECOLOGY - CENTRAL REGIONAL OFFICE

Start Date 9/17/09 Completed Date 4/7/10

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Driller/Engineer/Trainee Name (Print) Steve Schneider
 Driller/Engineer/Trainee Signature [Signature]
 Driller or trainee License No 0643

Drilling Company Schneider Equipment, Inc.
 Address 21881 River Road NE
 City, State, Zip St. Paul, OR 97137

IF TRAINEE,
 Driller's Licensed No. _____
 Driller's Signature _____

Contractor's
 Registration No. SCHNEE1940R8 Date 5/4/10
 Ecology is an Equal Opportunity Employer. ECY 050-1-20 (Rev 2/03)

CITY OF SELAH

AAS171 - WELL NO. 8 - Formation Log by Schneider Drilling Co.

375748

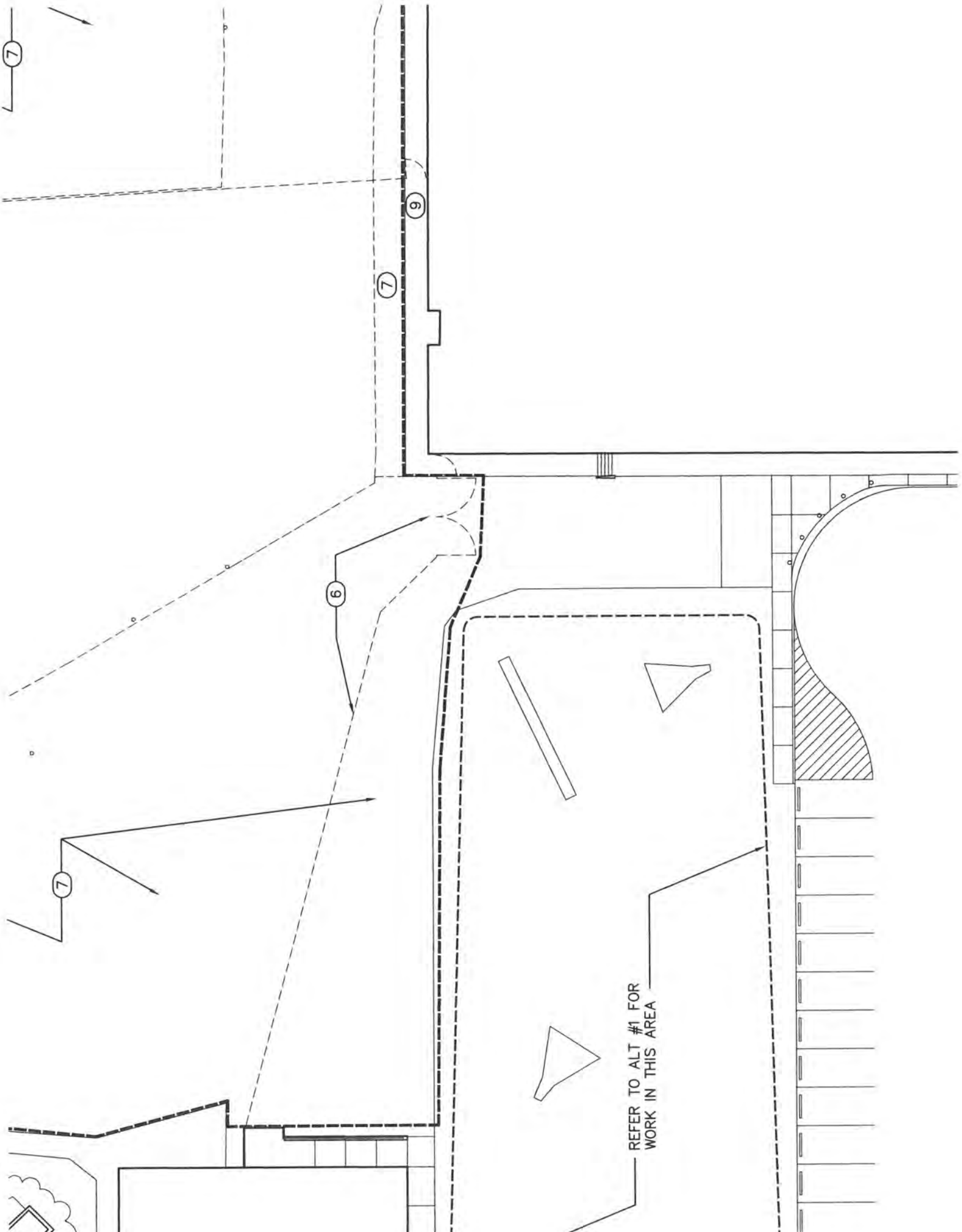
<u>FM</u>	<u>TO</u>	<u>DESCRIPTION</u>
0	1	Top soil
1	9.5	Clay, brown, firm w/ gravel, 3" minus
9.5	50	Gravel, multi-colored (m.c.), 3/4" - & sand, m.c., coarse-fine w/clay, brown, medium
50	64	Sand, medium & gravel, 3/4" minus; multi-colored w/cementation
64	71	Clay, red, medium
88	118	Sand, brown, medium w/cementation
118	127	Clay, brown, soft
127	161	Sand, multi-colored, coarse w/some gravel, m.c., 3/8"-
161	176	Clay, brown, hard w/gravel, m.c., 3/8"-
176	186	Clay, brown, soft w/gravel, m.c., 3/8"-
186	206	Clay, brown, med w/some gravel, m.c., 3/8"-
206	296	Clay, brown, med w/sand, black, fine-coarse, cementation
296	301	Clay, brown, med-soft
301	303	Clay, brown, med, w/sand, brown, very fine - coarse, cementation
303	309	Sand, brown, very fine-fine some coarse & some gravel, m.c., 1/4"-
309	311	Sand, brown, coarse, w/ gravel 1/2"-, brown; some cementation
311	336	Sand, m.c., coarse-fine w/gravel, m.c., 1-1/2"-
336	341	Sand, m.c., coarse-fine w/gravel, m.c., 1-1/2"- w/cementation
341	346	Siltstone, m.c., medium w/claystone, m.c., medium & sand, grey, fine, cemented
346	350	Claystone red, medium w/sandstone, tan, fine & gravel, m.c., 3/4" w/some clay, tan, soft
350	355	Sandstone, brown, medium
355	377	Sandstone, brown, medium w/claystone, brown, medium & some clay, brown, soft-medium
377	385	Gravel, m.c., 2"- w/sand, coarse-fine w/cementation
385	389	Sandstone, dark brown, medium w/siltstone, brown, medium
389	398	Claystone, brown, medium
398	403	Clay, tan, medium
403	406	Siltstone, tan, medium w/sand & gravel, m.c., 1/2"-, cemented
406	421	Gravels, m.c., 3/4" minus w/sand, m.c., fine-medium
421	429	Claystone, m.c., medium
429	441	Sandstone, brown, medium w/siltstone, tan, medium
441	446	Claystone, dark brown, medium
446	451	Clay, brown, medium
451	461	Clay, grey & tan, soft-medium
461	464	Claystone, grey & tan, medium
464	468	Sandstone, dark grey, medium w/claystone, m.c., medium
468	473	Claystone, dark green, medium

375748

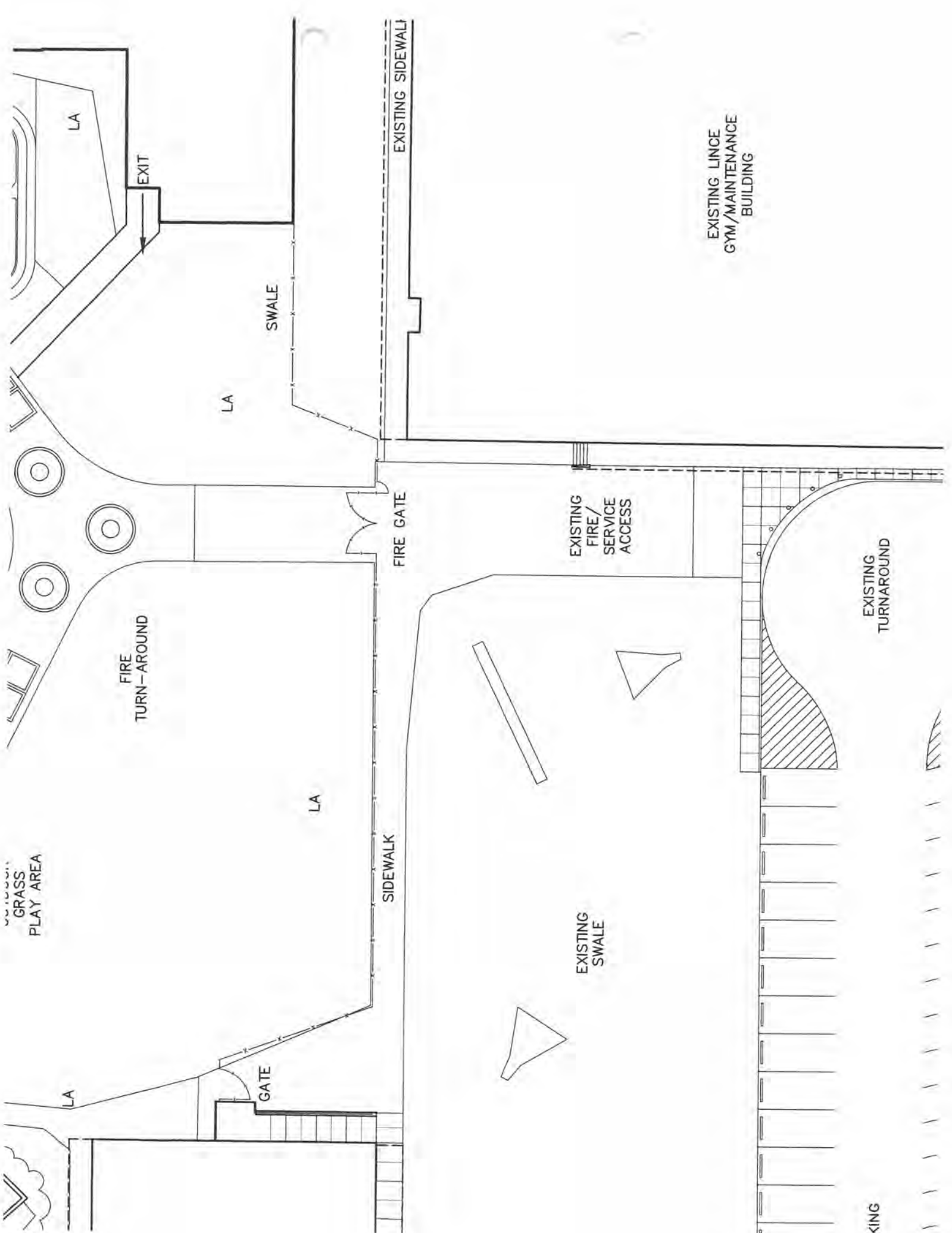
CITY OF SELAH
AAS171 - WELL NO. 8 - Formation Log
by Schneider Drilling Co.

FM TO DESCRIPTION

473 498 Claystone, dark green, medium w/some claystone, tan, medium
498 513 Clay, greyish green, soft w/claystone, dark green, medium
513 521 Sandstone, dark green, v-hard w/some claystone, m.c., medium
521 542 Sandstone, dark green, medium w/claystone, m.c., medium & some clay dark grey, soft
542 547 Sandstone, dark green, medium
547 566 Clay, dark green, soft-medium
566 573 Clay, dark green, soft-medium w/claystone, dark green, medium
573 596 Clay, dark green, soft-medium w/claystone, dark green, medium
596 602 Sandstone, dark green, medium
602 604 Claystone, green, medium w/sandy clay, green, soft
604 608 Claystone, green, medium w/siltstone, green, medium & wood & some gravel, m.c., 1"-
608 611 Gravel, m.c., 1" - w/some cementation
611 618 Clay, dark green, soft w/sandstone, dark green, medium
618 625 Cemented sand, medium & gravel, 1-1/2"-; m.c.
625 635 Clay, green, medium
635 640 Clay, green, sandy, medium
640 650 Basalt, black, vesicular
650 660 Basalt, black & brown, medium, fractured
660 674 Basalt, black & brown, medium-hard, fractured



REFER TO ALT #1 FOR
WORK IN THIS AREA



EXISTING LINC
GYM/MAINTENANCE
BUILDING

GRASS
PLAY AREA

FIRE
TURN-AROUND

FIRE GATE

EXISTING
FIRE/
SERVICE
ACCESS

EXISTING
TURNAROUND

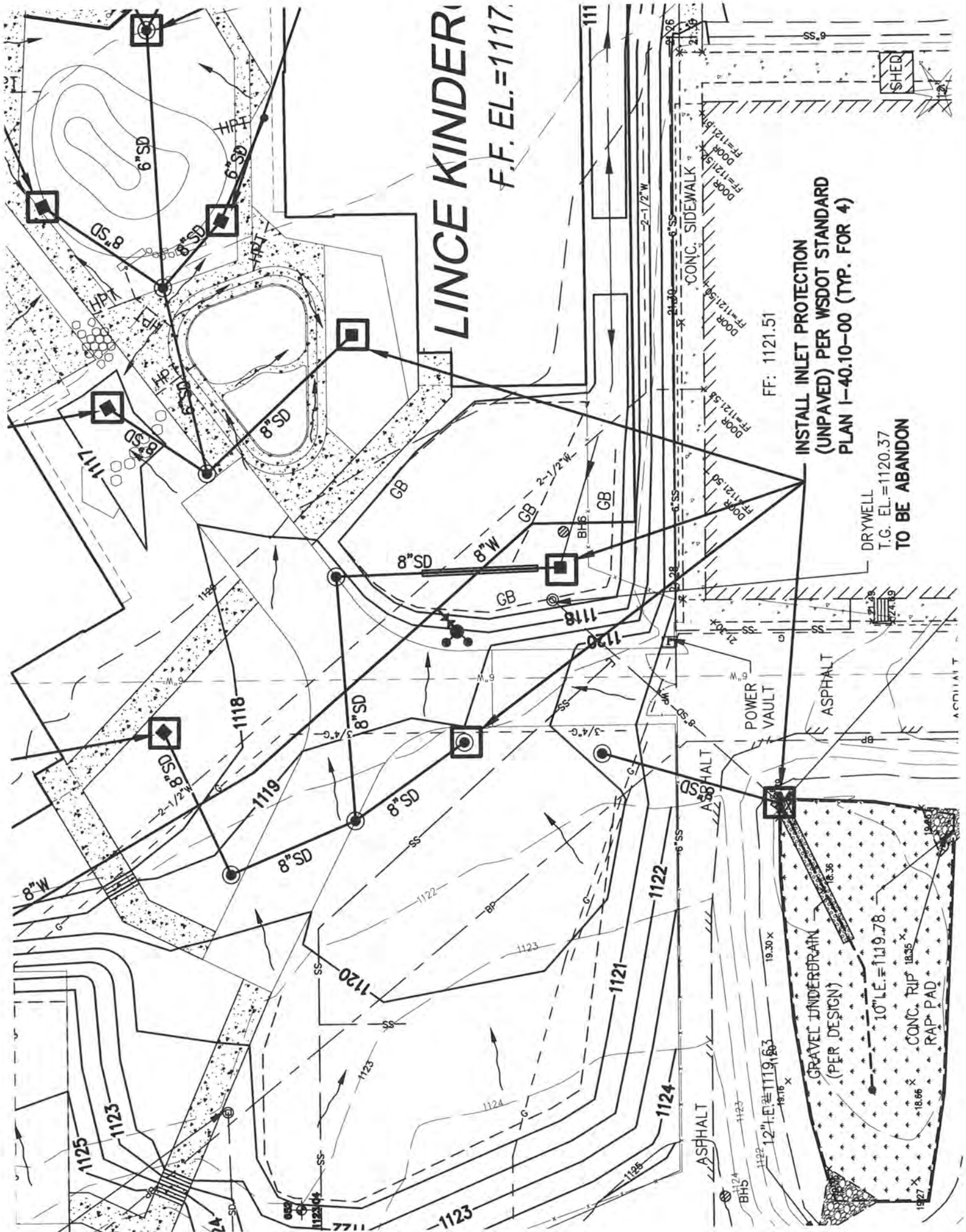
SIDEWALK

EXISTING
SWALE

KING

LINCE KINDER

F.F. EL.=1117.



INSTALL INLET PROTECTION
(UNPAVED) PER WSDOT STANDARD
PLAN I-40.10-00 (TYP. FOR 4)

FF: 1121.51

DRYWELL
T.G. EL.=1120.37
TO BE ABANDON

POWER VAULT

ASPHALT

ASPHALT

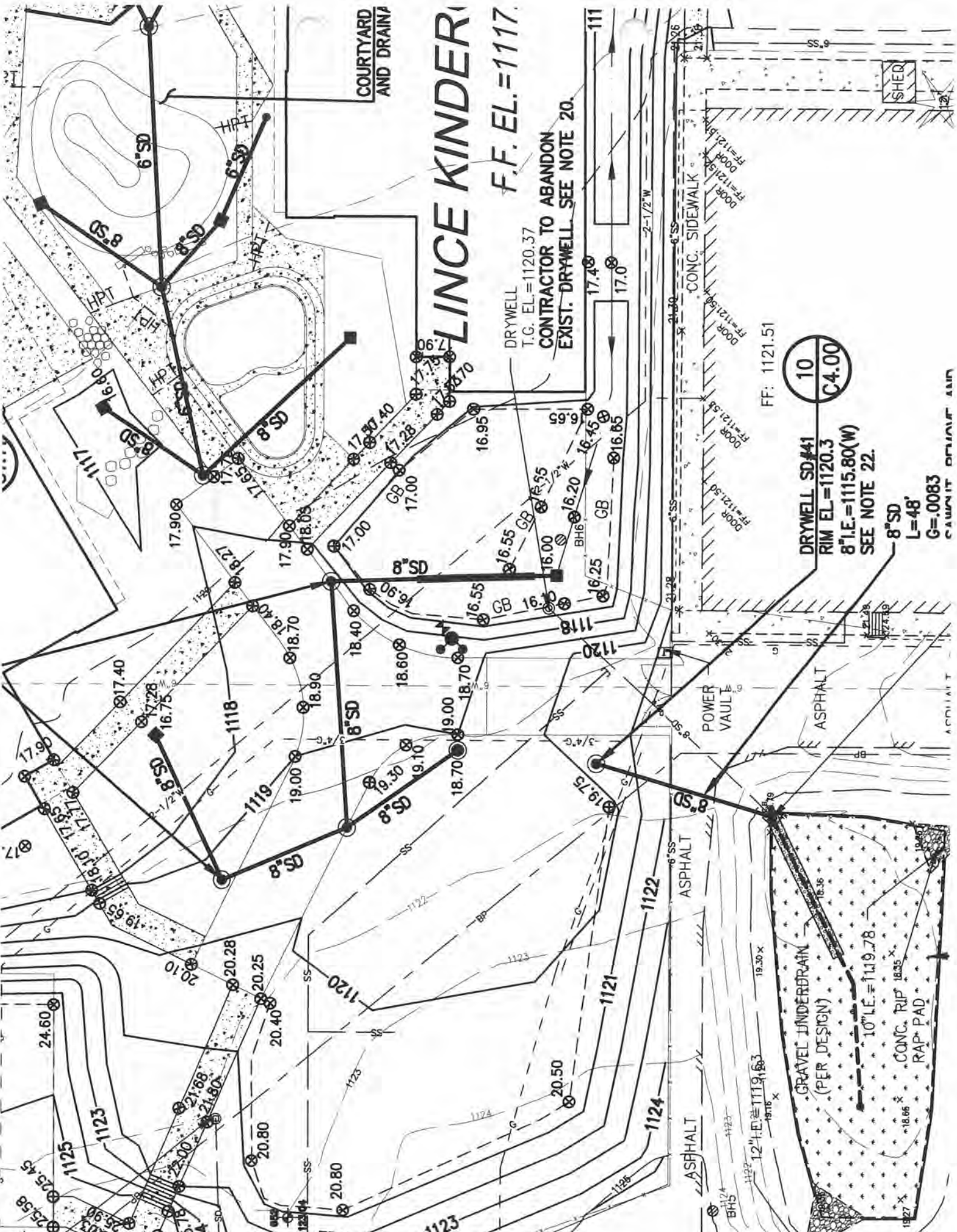
ASPHALT

ASPHALT

ASPHALT

ASPHALT

ASPHALT



COURTYARD AND DRAINAGE

LINCE KINDER
 F.F. EL.=1117.

DRYWELL
 T.G. EL.=1120.37
 CONTRACTOR TO ABANDON
 EXIST. DRYWELL SEE NOTE 20.

FF: 1121.51

10
 C4.00

DRYWELL SD#41
 RIM EL.=1120.3
 8\"/>

8\"/>

L=48'
 G=.0083

CAUTION DRAINAGE AND ASPHALT

GRAVEL UNDERDRAIN
 (PER DESIGN)
 10\"/>

CONC. RUP 18.35'
 RAP PAD

SHER

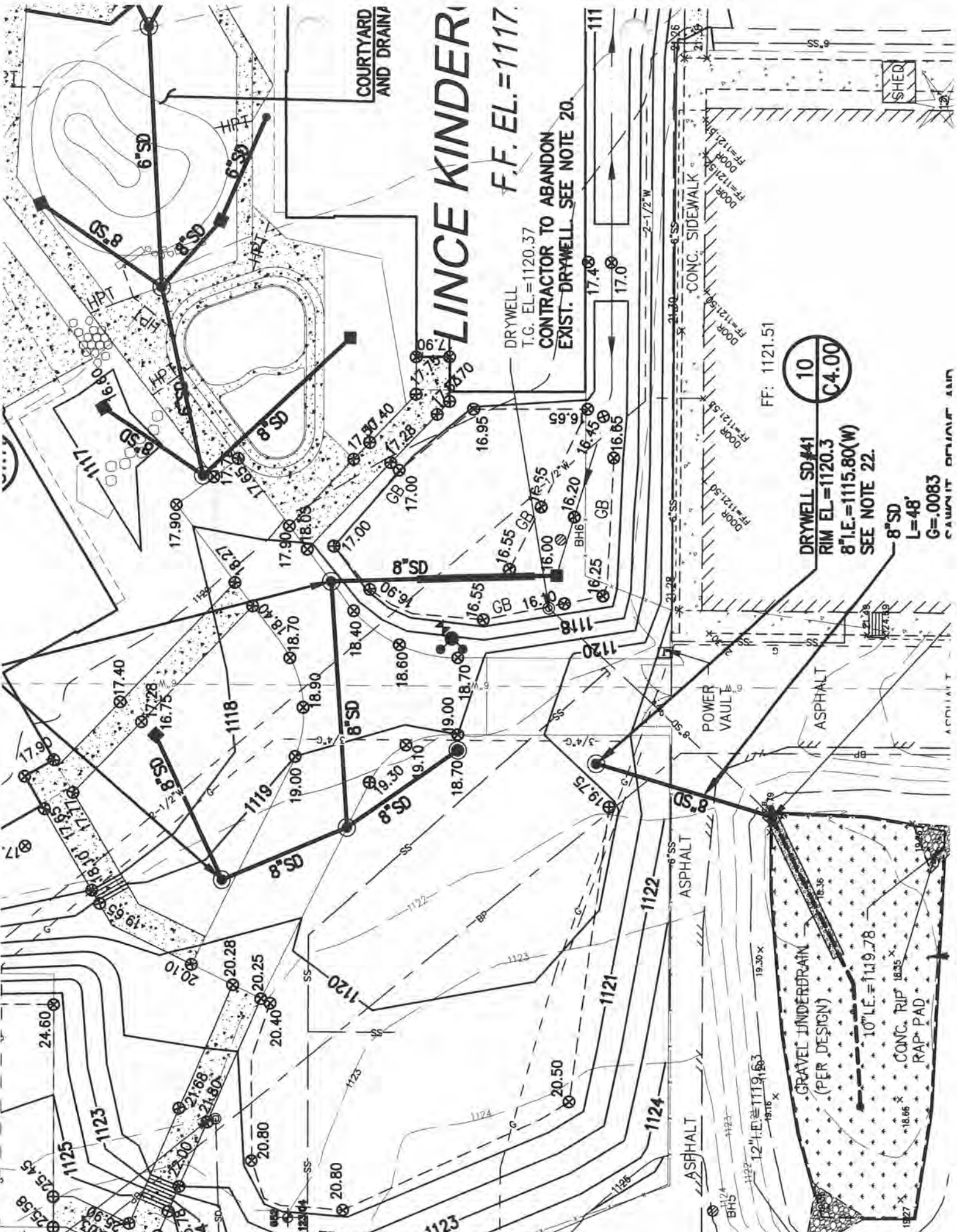
CONC. SIDEWALK

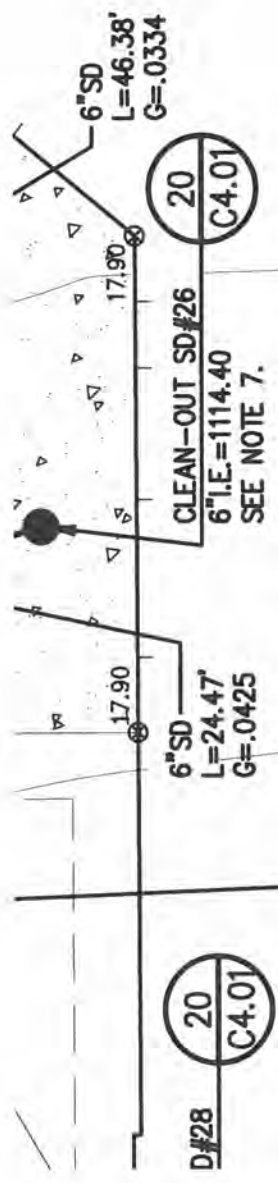
POWER VAULT

ASPHALT

ASPHALT

ASPHALT





LINCE KINDERGARTEN

F.F. EL. = 1117.90



D#28
20
C4.01

20
C4.01

DRYWELL SD#27
O/W/FRAME & GRATE
T.G. EL. = 1117.05
6" I.E. = 1112.85 (SE, SW, N)
SEE NOTE 22.

CLEAN-OUT SD#26
6" I.E. = 1114.40
SEE NOTE 7.

6" SD
L = 24.47'
G = .0425

6" SD
L = 46.38'
G = .0334

3:1 SIDESLOPE

L=47.04
G=.0455

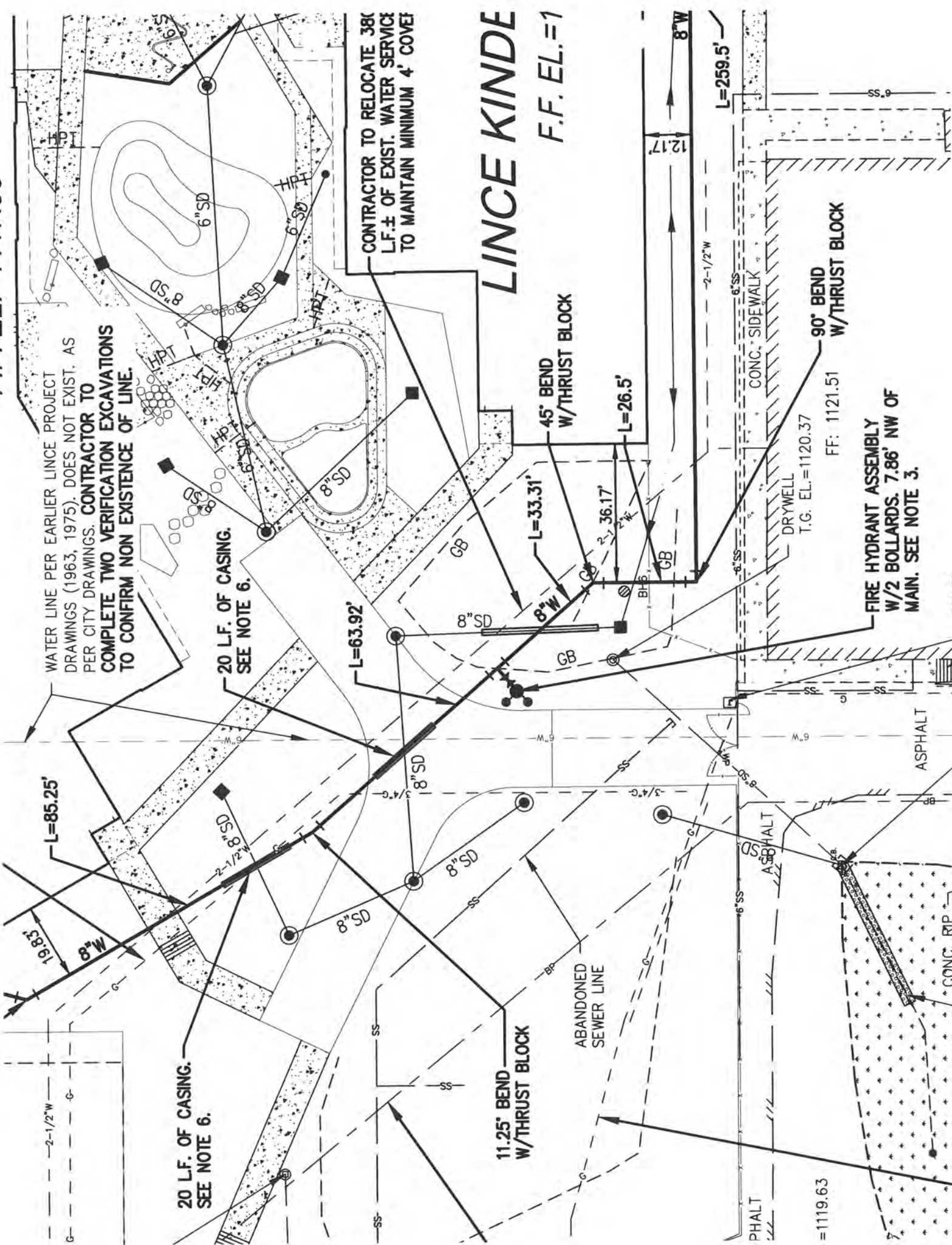


CATCH BASIN SD#4
T.G. EL.=1116.7
8" I.E.=1113.00
SEE NOTE 10.

1116

CATCH BASIN SD#2
T.G. EL.=1116.5
8" I.E.=1113.00
SEE NOTE 10.





WATER LINE PER EARLIER LINCEN PROJECT DRAWINGS (1963, 1975). DOES NOT EXIST. AS PER CITY DRAWINGS. CONTRACTOR TO COMPLETE TWO VERIFICATION EXCAVATIONS TO CONFIRM NON EXISTENCE OF LINE.

CONTRACTOR TO RELOCATE 380 LF.± OF EXIST. WATER SERVICE TO MAINTAIN MINIMUM 4' COVER

LINCEN KINDE
F.F. EL.=1

20 LF. OF CASING.
SEE NOTE 6.

20 LF. OF CASING.
SEE NOTE 6.

11.25' BEND
W/THRUST BLOCK

45° BEND
W/THRUST BLOCK

90° BEND
W/THRUST BLOCK

FIRE HYDRANT ASSEMBLY
W/2 BOLLARDS. 7.86' NW OF
MAIN. SEE NOTE 3.

L=85.25'

L=63.92'

L=33.31'

L=26.5'

L=259.5'

T.G. EL.=1120.37

FF: 1121.51

=1119.63

ABANDONED
SEWER LINE

PHALT

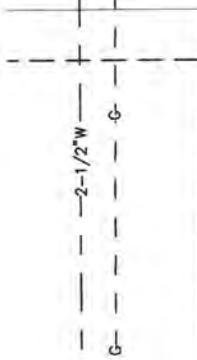
ASPHALT

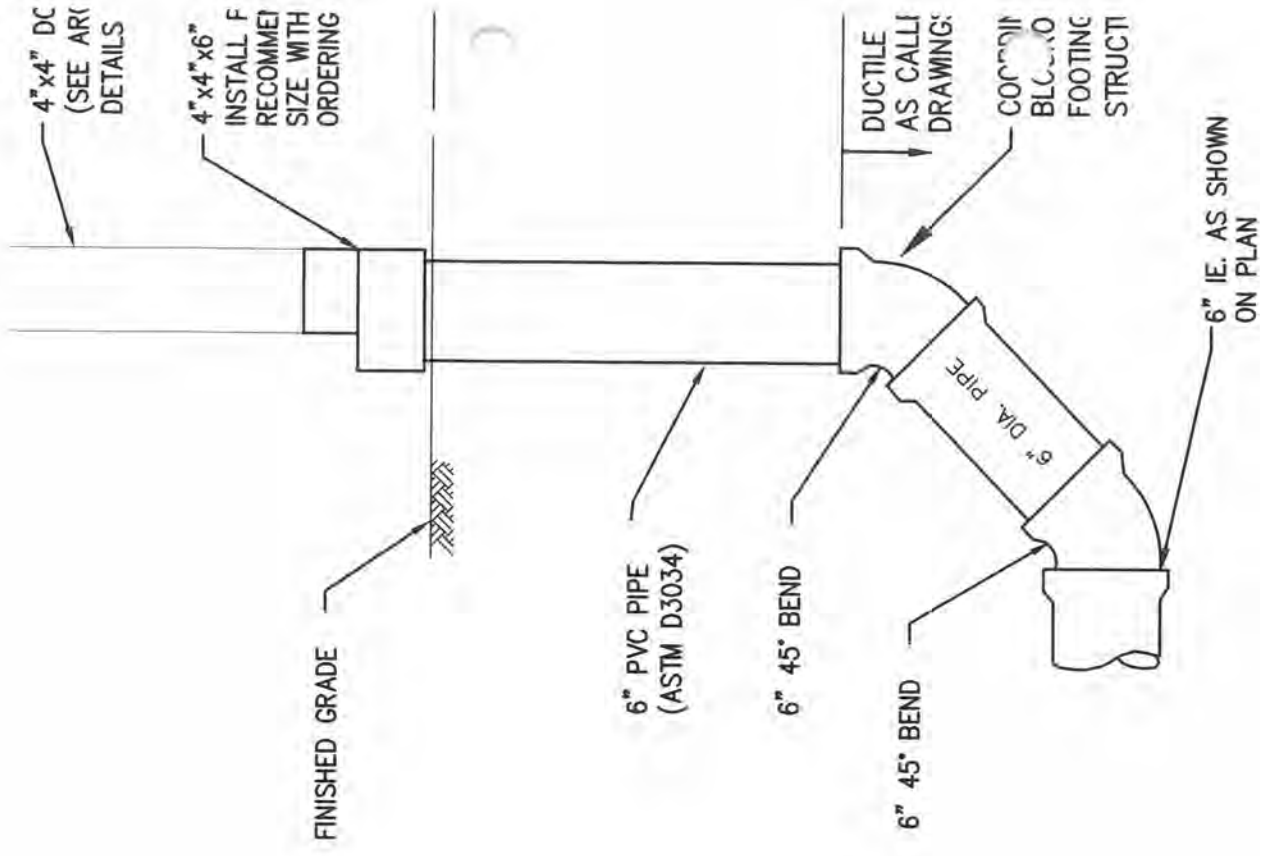
ASPHALT

CONC. RIP

CONC. SIDEWALK

DRYWELL

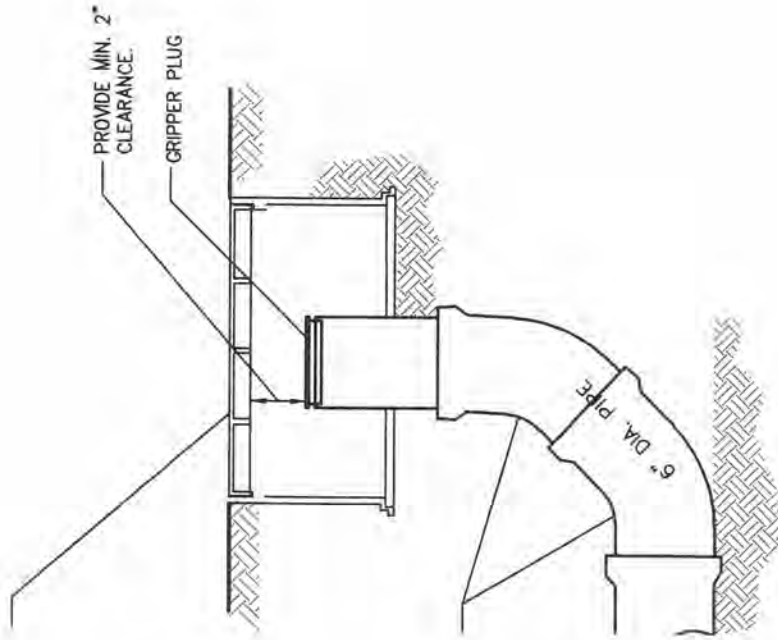




15

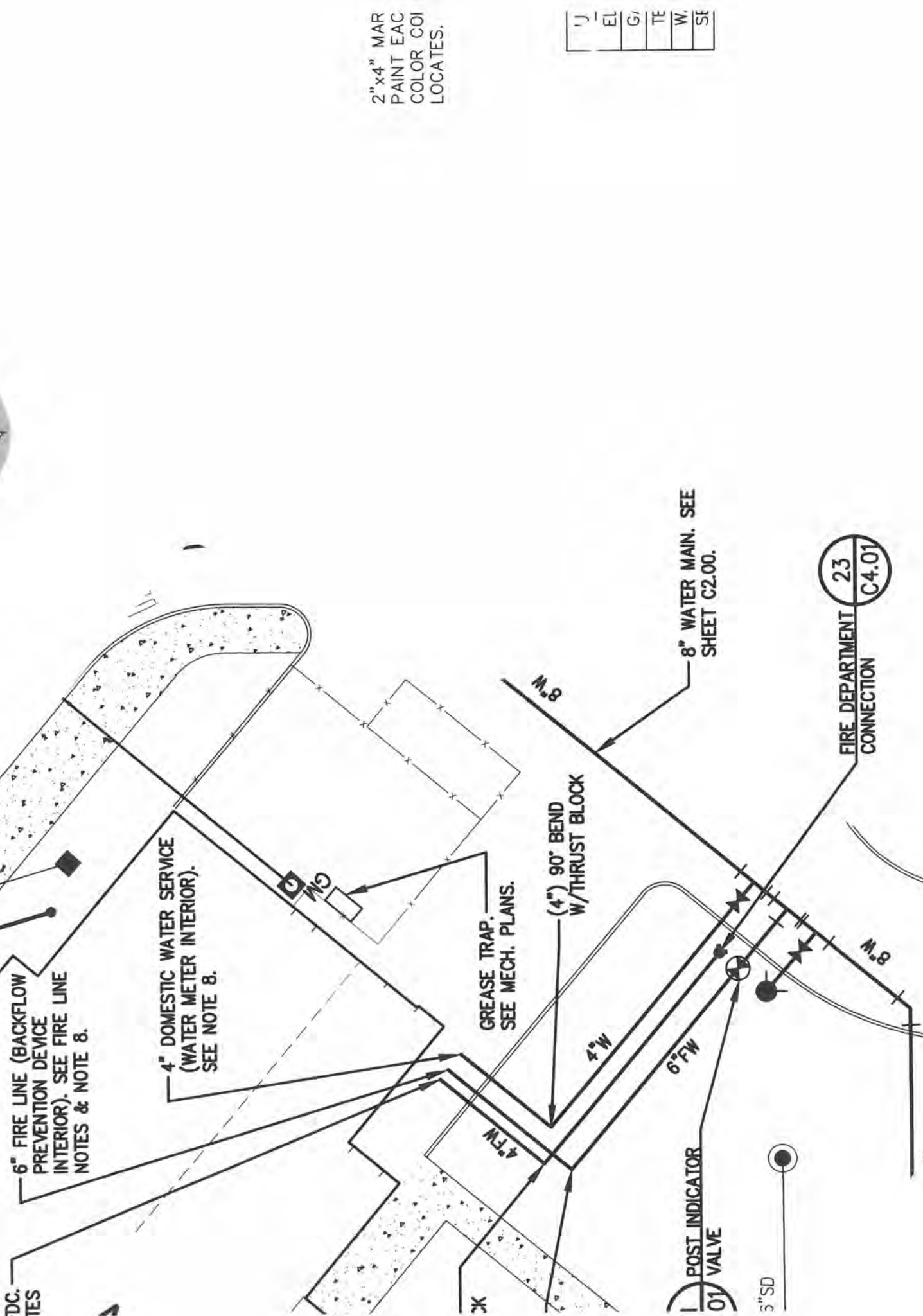
DOWNSPOUT CONNECTIO

NOT TO SCALE



E CLEAN-OUT

SCALE



2" x 4" MAR
PAINT EAC
COLOR COI
LOCATES.

U	EL	G	TE	W	SE
---	----	---	----	---	----

NOTE: ONLY THE LATEST DETAIL, AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS, SHALL BE USED.

ORIG.	10/06		
Revision	Date	Description	Appr
CITY OF SELAH-STANDARD DETAIL		MANHOLE ADJUSTMENT DETAIL	SS-4

MANHOLE ADJUSTMENT DETAIL

CITY OF SELAH STANDARD DETAIL SS-4
NOT TO SCALE



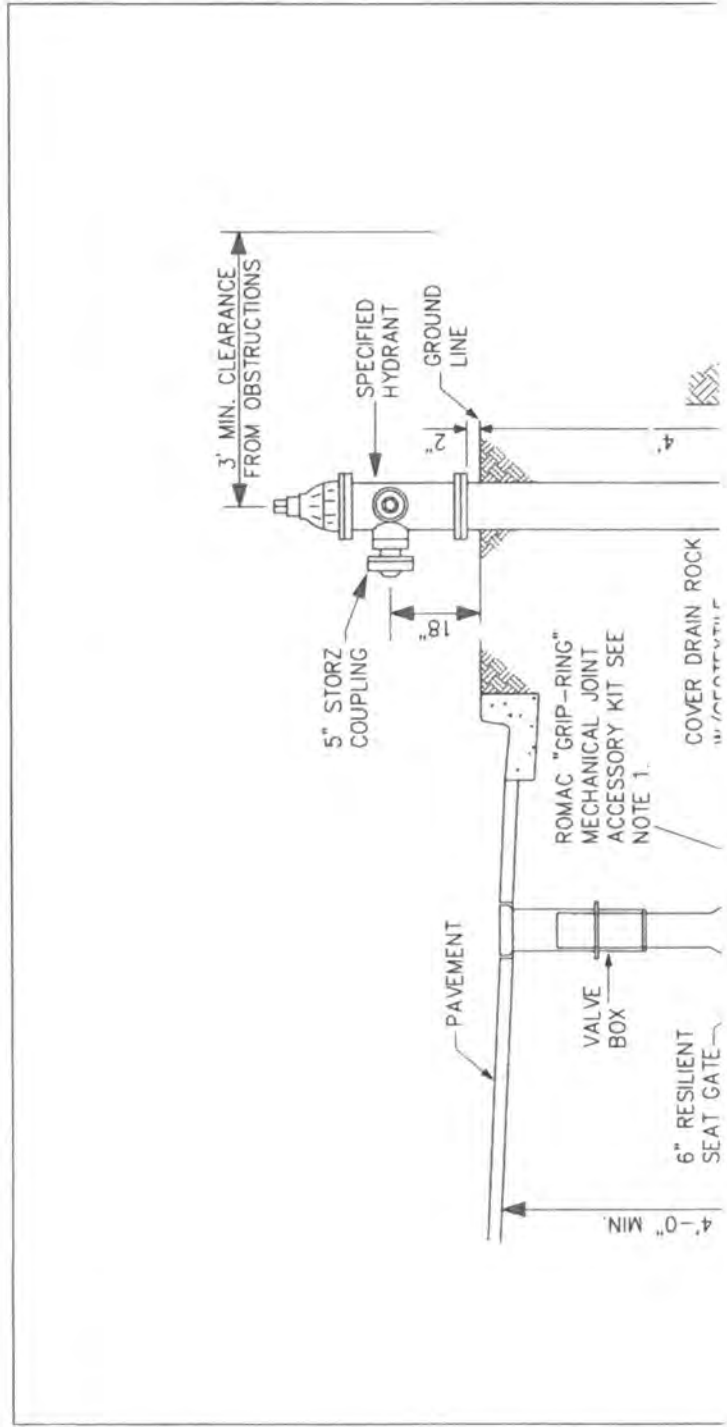
- NOTES:
1. SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH SEC. 7-18 OF THE STANDARD SPECIFICATIONS
 2. SERVICE CONNECTIONS 8" OR LARGER MUST BE MADE AT MANHOLE
 3. IF 5' MAXIMUM SLOPED DISTANCE IS

NOTES:
ONLY THE LATEST

34
—

TRENCH SURFACING REPAIR

CITY OF SELAH STANDARD DETAIL ST-9
NOT TO SCALE



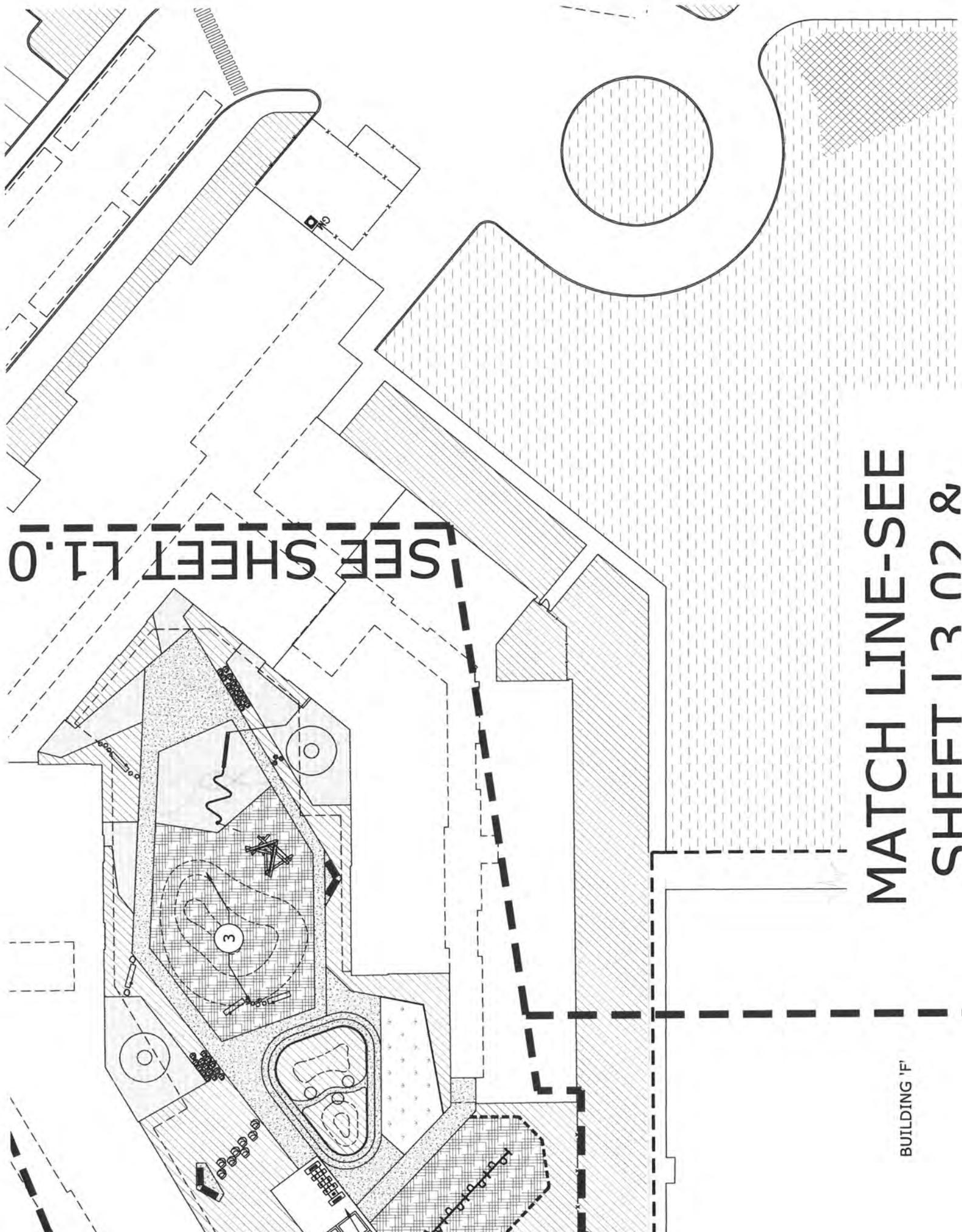
NOTES:
 • ONLY THE LATEST DETAIL, AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS, SHALL BE USED.

REV.	1/12	UPDATED BOLLARD DETAIL	
ORIG.	10/06		
Revision	Date	Description	Appr
CITY OF SELAH-STANDARD DETAIL			W-10
FIRE HYDRANT GUARD POSTS			



FIRE HYDRANT BOLLARDS

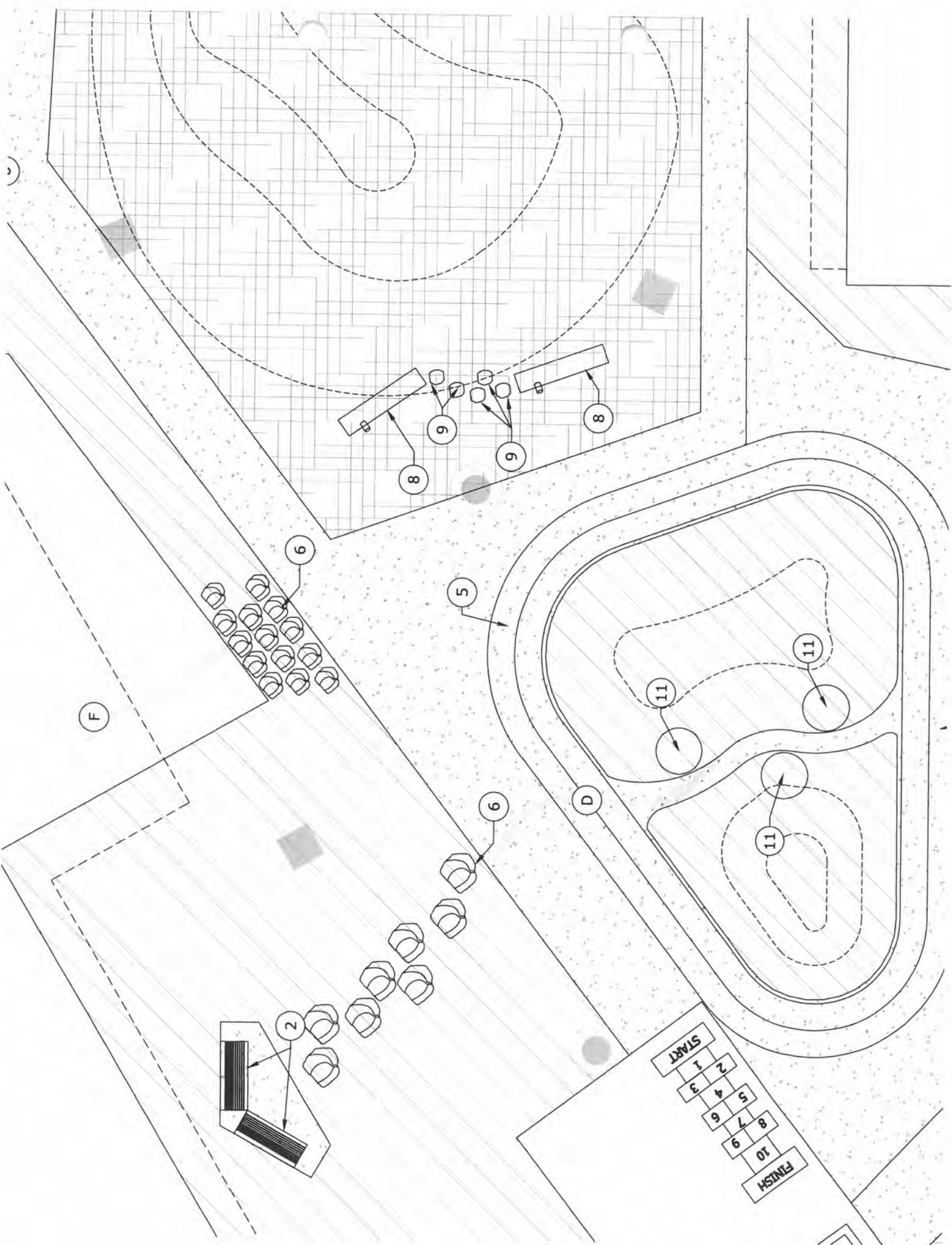
CITY OF SELAH STANDARD DETAIL W-10
 NOT TO SCALE



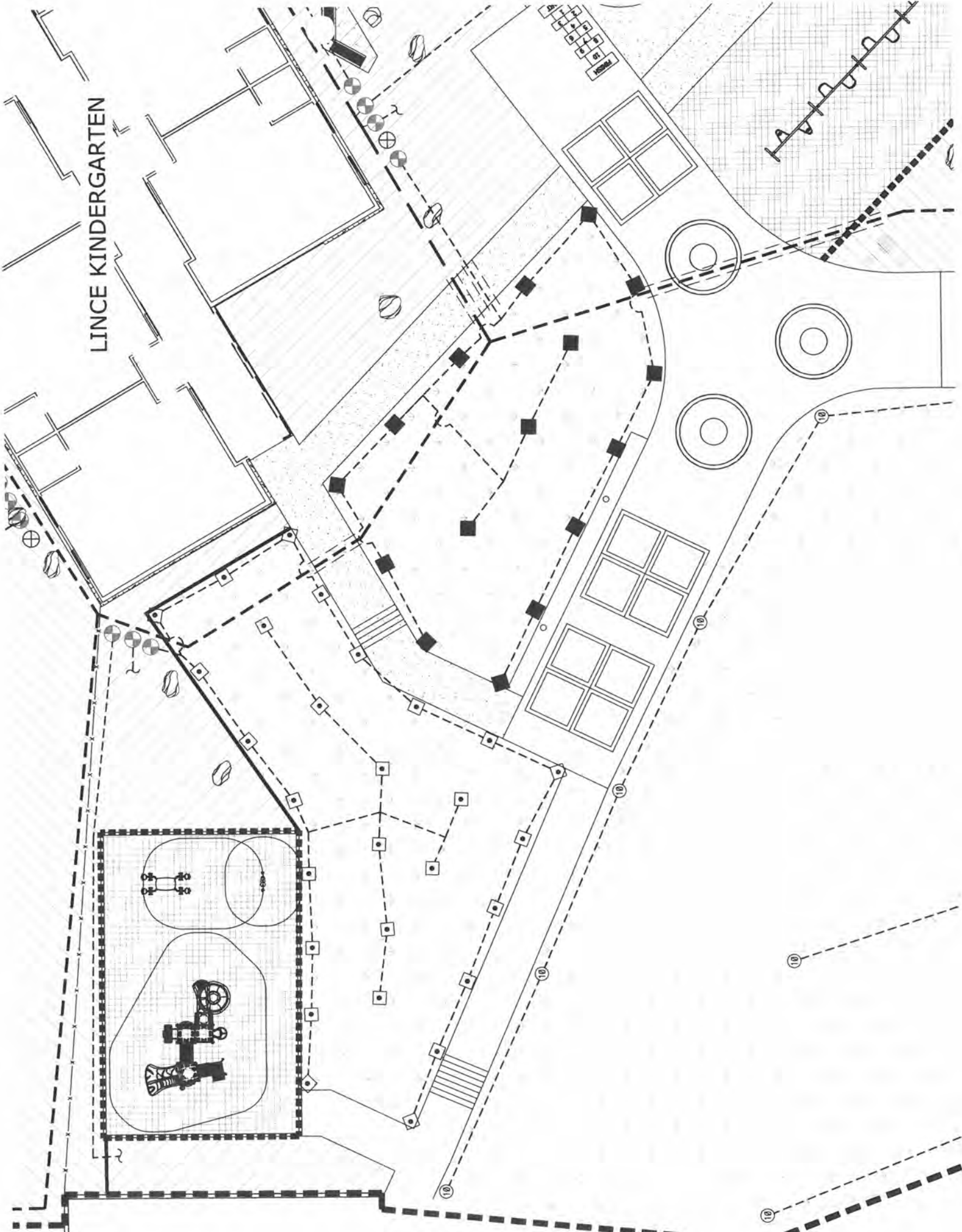
SEE SHEET L1.0

MATCH LINE-SEE
SHEET 1307 &

BUILDING 'F'



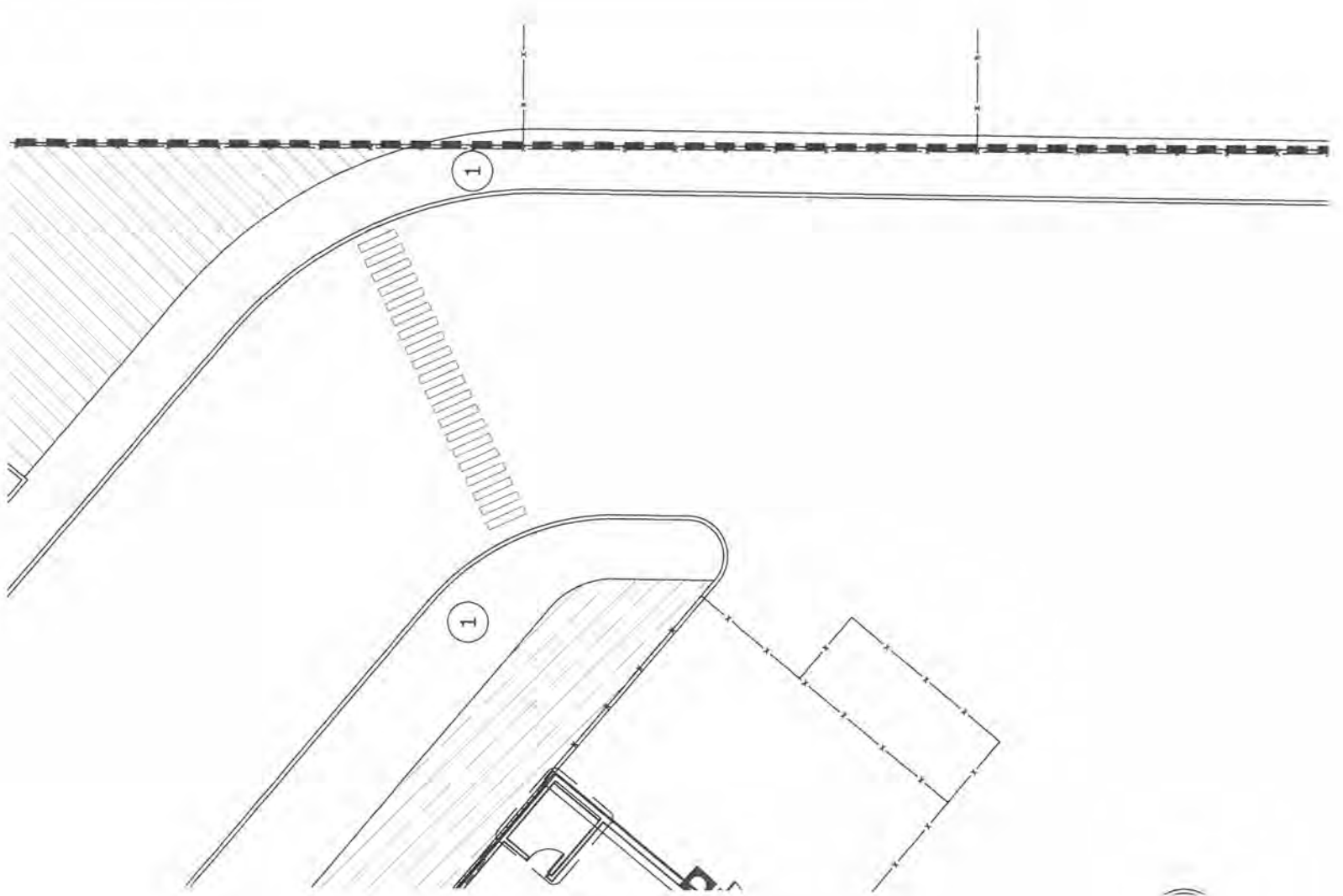
LINCE KINDERGARTEN



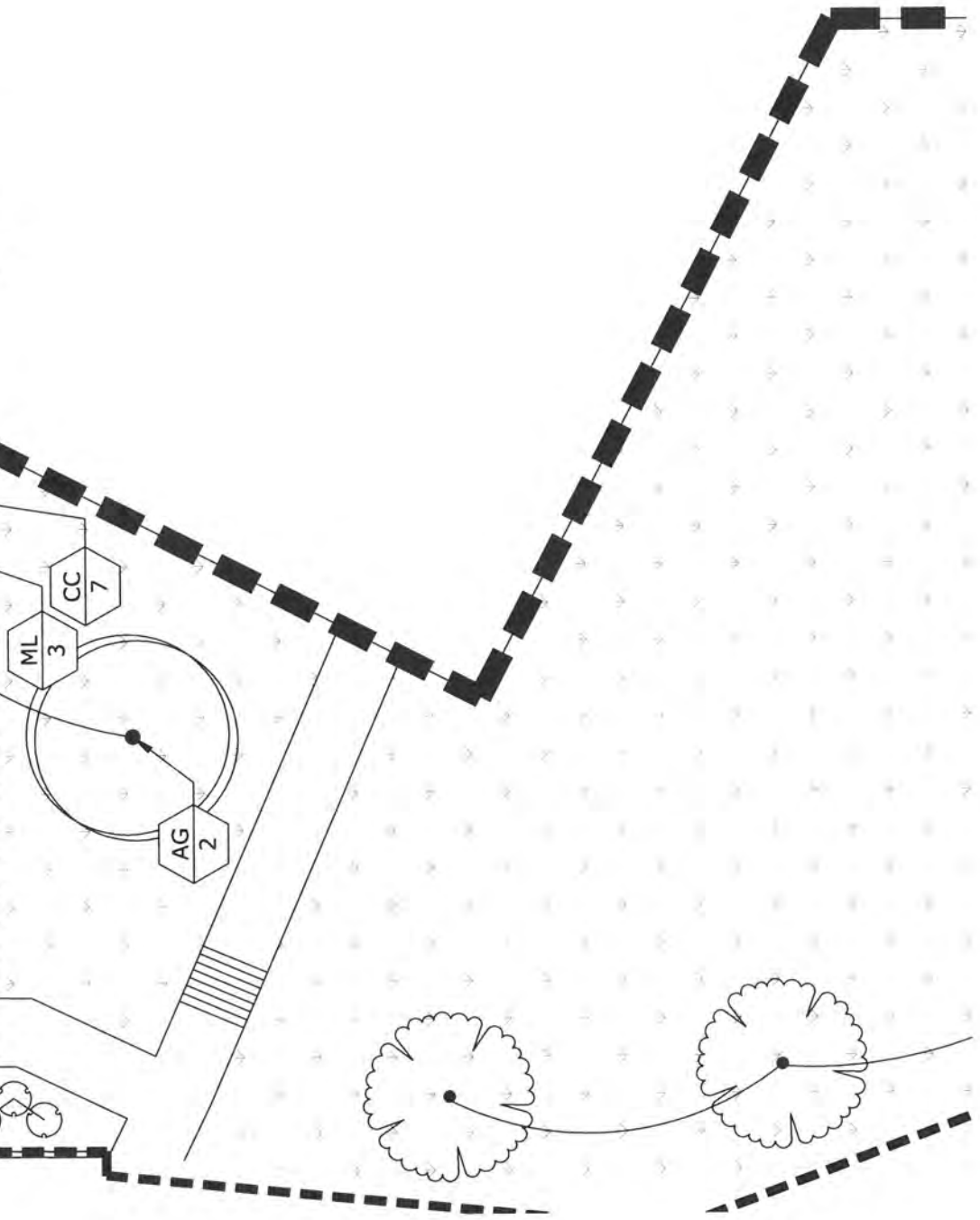
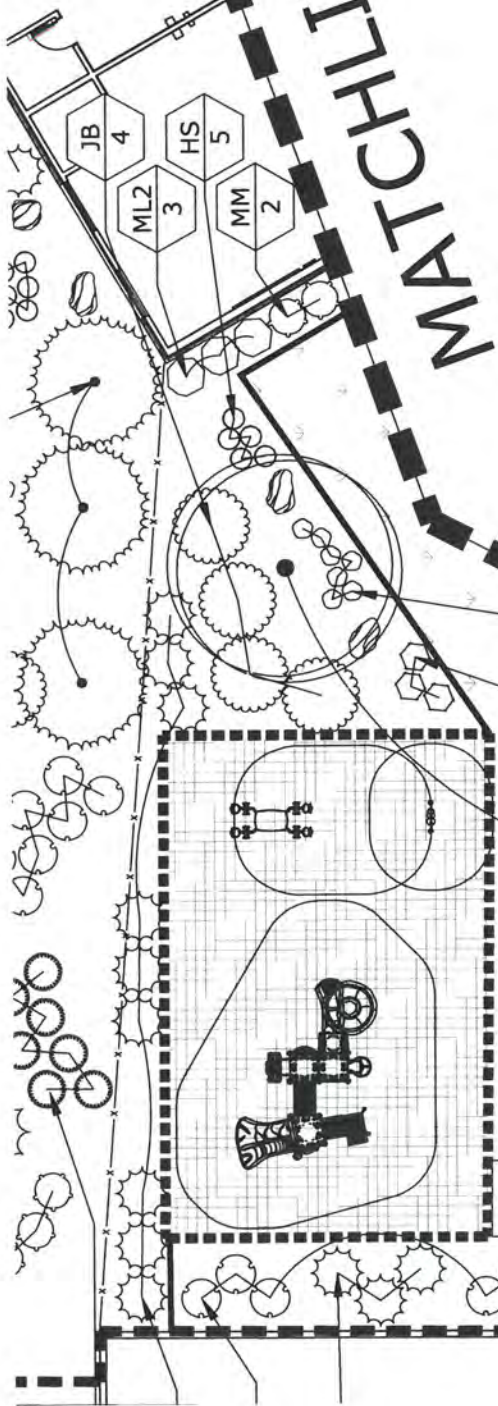
- ⑩ HUNTER I-25-06-S:
SPACING: 42'.
- ⑫ HUNTER I-25-06-S:
SPACING: 52.8'.
- HUNTER ROOT WA

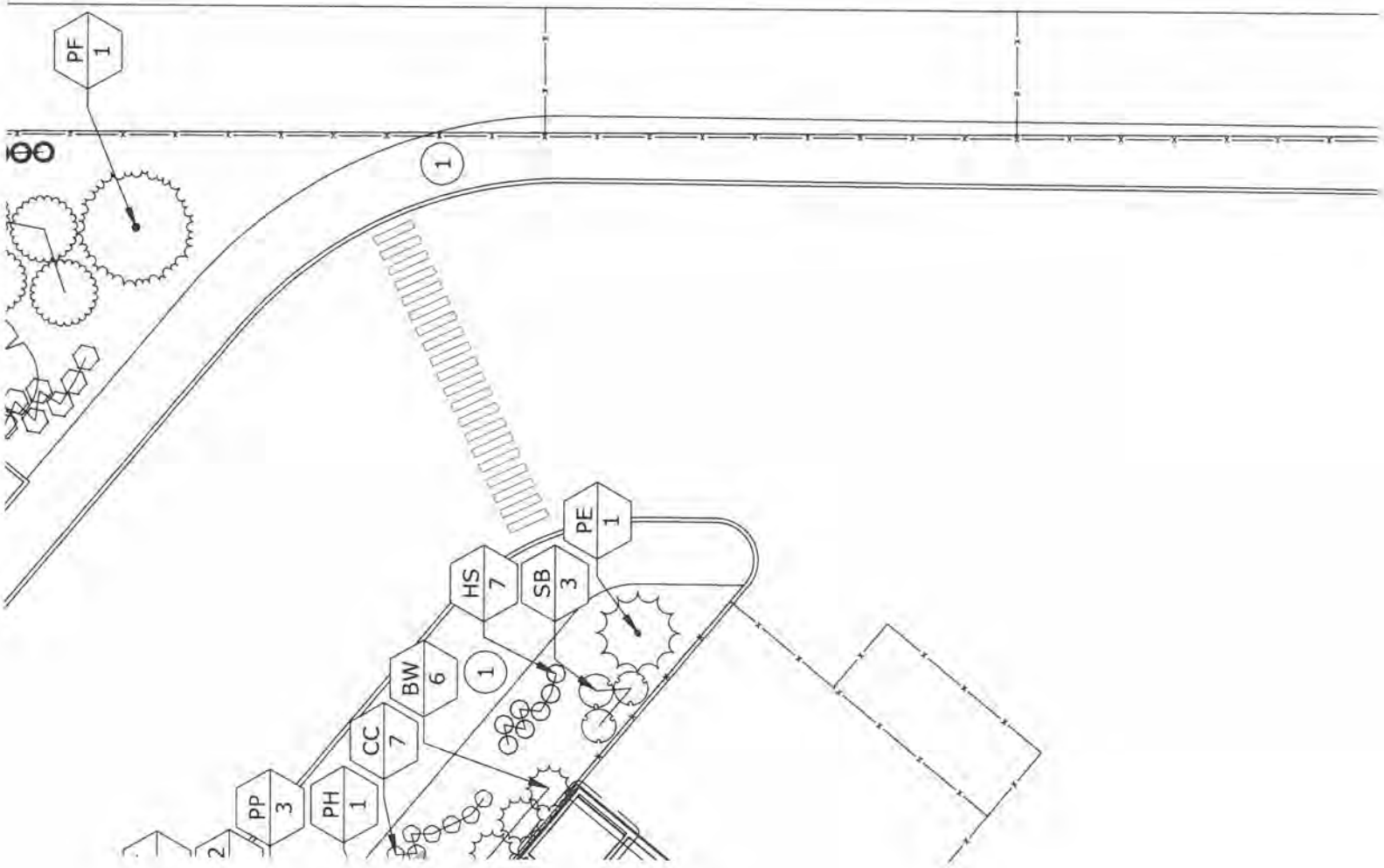
IRRIGATION

1. CALL LOCATE 2 WORKIN TO FIELD VERIFY BOTH COST TO THE OWNER.
2. CONTRACTOR TO L
3. EXISTING IRRIGATION L
4. IRRIGATION LAYOUT IS ALL PIPING TO BE IN TU
5. ALL MAIN LINE PIPING F DIAMETER OF THE PIPE
6. CONTRACTOR TO INSTA
7. THE IRRIGATION CONF
8. BE REMOVED FROM THE
9. ALL SPRINKLER HEADS : THE IRRIGATION CONF
10. PROVIDE A METHOD OF ALL SPRINKLER EQUIPM CODES.
11. INSTALL ALL VALVE BOX
12. CONTRACTOR TO ENSUF
13. INSTALL ALL BACK-FLOI
14. INSTALL LIGHTNING
15. CONNECT NEW IRR. AT



SEE SHEET
MATCHLINE





CA	Calamagrostis x acutiflora `Karl Foerster` / F.
CC	Caryopteris x clandonensis `Blue Mist` / Blue
CS	Cornus sericea `Kelseyi` / Kelseyi Dogwood
GM	Miscanthus sinensis `Graziella` / Graziella Ma
H	Hemerocallis x `Stella de Oro` / Stella de Oro
HS	Helictotrichon sempervirens / Blue Oat Grass
JB	Juniperus sabina `Buffalo` / Buffalo Juniper
JG	Juniperus x pfitzeriana `Gold Coast` / Gold C
ML	Miscanthus sinensis `Little Zebra` / Silver Zebra
ML2	Muhlenbergia capillaris `Lenca` / Regal Mist F
MM	Miscanthus sinensis `Morning Light` / Eulalia
NT	Nassella tenuissima `Pony Tails` / Mexican Fe
PE3	Penstemon eatonii / Firecracker Penstemon
PH2	Pennisetum alopecuroides `Hameln` / Hameln
PP	Picea pungens `Globosa` / Dwarf Globe Blue
PS2	Panicum virgatum `Shenandoah` / Switch Gr
SB	Spiraea x bumalda `Goldflame` / Goldflame S
SS	Salvia greggii `Furmans Red` / Furman`s Red
WF	Weigela florida `Dark Horse` / Dark Horse W
YF	Yucca filamentosa `Bright Edge` / Adam`s N

PLANT QUANTITY NOTE: CONTRACTOR SHALL VERIFY QUANTITIES ON PLANS.

PLANT CALLOUTS



375748

CITY OF SELAH
AAS171 - WELL NO. 8 - Formation Log
by Schneider Drilling Co.

FM TO DESCRIPTION

- 473 498 Claystone, dark green, medium w/some claystone, tan, medium
- 498 513 Clay, greyish green, soft w/claystone, dark green, medium
- 513 521 Sandstone, dark green, v-hard w/some claystone, m.c., medium
- 521 542 Sandstone, dark green, medium w/claystone, m.c., medium & some clay dark grey, soft
- 542 547 Sandstone, dark green, medium
- 547 566 Clay, dark green, soft-medium
- 566 573 Clay, dark green, soft-medium w/claystone, dark green, medium
- 573 596 Clay, dark green, soft-medium w/claystone, dark green, medium
- 596 602 Sandstone, dark green, medium
- 602 604 Claystone, green, medium w/sandy clay, green, soft
- 604 608 Claystone, green, medium w/siltstone, green, medium & wood & some gravel, m.c., 1"-
- 608 611 Gravel, m.c., 1"- w/some cementation
- 611 618 Clay, dark green, soft w/sandstone, dark green, medium
- 618 625 Cemented sand, medium & gravel, 1-1/2"-; m.c.
- 625 635 Clay, green, medium
- 635 640 Clay, green, sandy, medium
- 640 650 Basalt, black, vesicular
- 650 660 Basalt, black & brown, medium, fractured
- 660 674 Basalt, black & brown, medium-hard, fractured

CITY OF SELAH

AAS171 - WELL NO. 8 - Formation Log by Schneider Drilling Co.

375748

<u>FM</u>	<u>TO</u>	<u>DESCRIPTION</u>
0	1	Top soil
1	9.5	Clay, brown, firm w/ gravel, 3" minus
9.5	50	Gravel, multi-colored (m.c.), 3/4"- & sand, m.c., coarse-fine w/clay, brown, medium
50	64	Sand, medium & gravel, 3/4" minus; multi-colored w/cementation
64	71	Clay, red, medium
88	118	Sand, brown, medium w/cementation
118	127	Clay, brown, soft
127	161	Sand, multi-colored, coarse w/some gravel, m.c., 3/8"-
161	176	Clay, brown, hard w/gravel, m.c., 3/8"-
176	186	Clay, brown, soft w/gravel, m.c., 3/8"-
186	206	Clay, brown, med w/some gravel, m.c., 3/8"-
206	296	Clay, brown, med w/sand, black, fine-coarse, cementation
296	301	Clay, brown, med-soft
301	303	Clay, brown, med, w/sand, brown, very fine - coarse, cementation
303	309	Sand, brown, very fine-fine some coarse & some gravel, m.c., 1/4"-
309	311	Sand, brown, coarse, w/ gravel 1/2"-, brown; some cementation
311	336	Sand, m.c., coarse-fine w/gravel, m.c., 1-1/2"-
336	341	Sand, m.c., coarse-fine w/gravel, m.c., 1-1/2"- w/cementation
341	346	Siltstone, m.c., medium w/claystone, m.c., medium & sand, grey, fine, cemented
346	350	Claystone red, medium w/sandstone, tan, fine & gravel, m.c., 3/4" w/some clay, tan, soft
350	355	Sandstone, brown, medium
355	377	Sandstone, brown, medium w/claystone, brown, medium & some clay, brown, soft-medium
377	385	Gravel, m.c., 2"- w/sand, coarse-fine w/cementation
385	389	Sandstone, dark brown, medium w/siltstone, brown, medium
389	398	Claystone, brown, medium
398	403	Clay, tan, medium
403	406	Siltstone, tan, medium w/sand & gravel, m.c., 1/2"-, cemented
406	421	Gravels, m.c., 3/4" minus w/sand, m.c., fine-medium
421	429	Claystone, m.c., medium
429	441	Sandstone, brown, medium w/siltstone, tan, medium
441	446	Claystone, dark brown, medium
446	451	Clay, brown, medium
451	461	Clay, grey & tan, soft-medium
461	464	Claystone, grey & tan, medium
464	468	Sandstone, dark grey, medium w/claystone, m.c., medium
468	473	Claystone, dark green, medium



Water Well Report

Original - Ecology, 1st copy - owner, 2nd copy - driller.

Construction/Decommission **375748**

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

PROPOSED USE: Domestic Industrial Municipal
 DeWater Irrigation Test Well Other _____

TYPE OF WORK: Owner's number of well (if more than one) 8
 New well Reconditioned Method: Dug Bored Driven
 Deepened Cable Rotary Jetted

DIMENSIONS: Diameter of well 16x10 inches, drilled 674 ft.
 Depth of completed well 670 ft.

CONSTRUCTION DETAILS
 Casing Welded pitless 674 Diam from +2 ft to 5 ft.
 Installed: Liner installed 16" Diam from 5 ft to 304 ft.
 Threaded " Diam from " ft to " ft.

Perforations: Yes No
 Type of perforator used _____
 SIZE of perforations in by in. and no. of perfs from ft. to ft.

Screens: Yes No K-Pac Location _____
 Manufacturer's Name: Alloy
 Type V-wire wrap Model No. 304 SS
 Diam 10 Slot size 040 from " ft to " ft.
 Diam " Slot size " from " ft to " ft.

Gravel/Filter packed: Yes No Size of gravel/sand CSSI 8x12
 Materials placed from 264 ft to 674 ft.

Surface Seal: Yes No To what depth? 304 including formation seal
 Material used in seal cement; except pitless interval is bentonite
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata _____
 Method of sealing strata off _____

PUMP: Manufacturer's Name Goulds
 Type submersible H.P. 200

WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
 Static level _____ ft. below top of well Date _____
 Artesian pressure 1/2 ft above ground lbs per square inch Date 4/6/10
 Artesian water is controlled by 6" valve on side & flange on top of pitless (cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? Schneider
 Yield: 1100 gal/min. with 183 ft. drawdown after 24 hrs.
 Yield: _____ gal/min. with _____ ft. drawdown after _____ hrs.
 Yield: _____ gal/min. with _____ ft. drawdown after _____ hrs.
 Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
 Time Water Level Time Water Level Time Water Level
 _____ _____ _____ _____ _____ _____
 Date of test began 11/24/09
 Bailor test _____ gal/min with _____ ft. drawdown after _____ hrs.
 Airtest _____ gal/min with stem set at _____ ft. for _____ hrs.
 Artesian flow _____ g p m Date _____
 Temperature of water 60 F Was a chemical analysis made? Yes No

Current

Notice of Intent No. WE10576

Unique Ecology Well ID Tag No. AAS171

Water Right Permit No. 1050A & cert. p36

Property Owner Name City of Selah

Well Street Address 218 S 3rd St

City Selah County Yakima

Location SW1/4-1/4 SE 1/4 Sec 35 Twn 14N R18E circle one

Lat/Long (s, t, r) Lat Deg _____ Lat Min/Sec _____

still REQUIRED) Long Deg _____ Long Min/Sec _____

Tax Parcel No. 18143543008

CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information indicate all water encountered. (USE ADDITIONAL SHEETS IF NECESSARY)

MATERIAL	FROM	TO
See attached formation log.		
Screen Assembly	*	*
J receptor and 12x10 std bell reducer	264	268
10" x .365 blank	268	297
10" PS screen	297	302
10" x .365 blank	302	307
10" PS screen	307	357
10" x .365 blank	357	376
10" PS screen	376	391
10" x .365 blank	391	403
10" PS screen	403	423
10" x .365 blank	423	429
10" PS screen	429	444
10" x .365 blank	444	513
10" PS screen	513	523
10" x .365 blank	523	542
10" PS screen	542	547
10" x .365 blank	547	597
10" PS screen	597	612
10" x .365 blank	612	618
10" PS screen	618	628
10" x .365 blank	628	641
10" PS screen	641	666
10" x .365 blank	666	670

RECEIVED
MAY 12 2010

DEPARTMENT OF ECOLOGY - CENTRAL REGIONAL OFFICE

Start Date 9/17/09 Completed Date 4/7/10

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Driller/Engineer/Trainee Name (Print) Steve Schneider
 Driller/Engineer/Trainee Signature Steve Schneider
 Driller or trainee License No. 0643

Drilling Company Schneider Equipment, Inc.
 Address 21881 River Road NE
 City, State, Zip St. Paul, OR 97137

IF TRAINEE,
 Driller's Licensed No. _____
 Driller's Signature _____

Contractor's
 Registration No. SCHNEEI940R8 Date 5/4/10
 Ecology is an Equal Opportunity Employer. ECY 050-1-20 (Rev 2/03)

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Town of Selah Depth forward	—	780
	Clay, gray & green	7	787
	Clay, gray	33	820
	Clay, green & blue, with shale	12	832
	Sand & gravel, blue, with basalt, black	2	834
	Basalt, black	27	861
	Basalt, black, with shale	6	867
	Basalt, black with shale & sand	7	874
	Sand, rock, shale, blue	31	905
	Shale & clay, green, some rock	10	915
	Basalt, black, porous, some shale	3	918
	Basalt, black	34	952
	Clay, gray, & basalt	8	960
	Clay, sand, basalt, gray	3	963
	Basalt, some clay	3	966
	PUMP TEST:		
	Dim. 20x16x10x8"x966"		
	SWL: 6 ft.		
	DD: 100 ft.		
	Yield: 1500 g.p.m.		
	Water Temp. 69°F.		
	Type & size of pump: Turbine, 1000 g.p.m.		
	CASING:		
	20" diam. from 0 to 543 ft.		
	16" " " 526 to 553 ft.		
	10" " " 537 to 829 ft.		
	8" " " 819 to 919 ft.		
	8" " open hole " 919 to 966 ft.		
	PERFORATIONS: 86 to 164 ft.		
	250 to 298 ft.		
	316 ft. to 345 ft.		
	554 to 651 ft.		

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Well No. 6 cont.

WELL LOG Well #6-contd. No. A, 5254

Date....., 19.....

Record by.....

Source.....

Location: State of WASHINGTON

County.....

Area.....

Map.....

..... ¼ ¼ sec. T..... N., R..... E. W.

Diagram of Section

Drilling Co.....

Address.....

Method of Drilling..... Date....., 19.....

Owner..... Town of Selah

Address.....

Land surface, datum..... ft. above below

CORRE-LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
--------------	----------	------------------	--------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Forward		675
	Sand, blue, gravel with clay	5	680
	Sand, fine, blue, some clay	4	684
	Sand, rock, clay, brown	17	701
	Clay & shale, brown, some sand	11	712
	Sand, brown, with clay	4	716
	Sand, gray, with clay	4	720
	Clay, blue with shale & sand	10	730
	Sand, blue, rock	8	738
	Shale, blue with clay & sand	7	745
	Sand, blue, caving	8	753
	Sand, blue, some gravel & clay	22	775
	Shale & clay, green, some sand	5	780

Turn up

(over)

Sheet..... of..... sheets

WELL LOG.—Continued

No. A. 5254
#6

Well No. 6 cont.

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Town of Selah Depth forward	—	372
	Clay, gray	8	380
	Clay, red, some sand & gravel	2	382
	Clay, gray & shale, sticky	2	384
	Shale, green & clay, gray	28	412
	Clay, green with sand	4	416
	Sand, blue rock & clay	2	418
	Clay, green, with sand	2	420
	Clay, blue with shale	24	444
	Clay, blue, with sand	6	450
	Sand & gravel, some clay	4	454
	Sand, blue, rock	4	458
	Clay, blue, shale, some gravel	2	460
	Clay, blue & shale	3	463
	Clay, blue & shale, sticky	2	465
	Clay, blue & shale	21	486
	Sand, blue, some clay	10	496
	Sand, blue some clay	2	498
	Clay, blue sand & gravel	2	500
	Sand, blue, clay & some shale	5	505
	Clay, blue, shale & some sand	10	515
	Clay, blue, shale	11	526
	" " " sticky	4	530
	" " "	10	540
	Sand & rock, gray, clay	3	543
	Sand & rock, blue	4	547
	Basalt, black sand	7	554
	Basalt, black	6	560
	" grey	20	580
	" black	62	642
	" gray	9	651
	Sand & gravel, wood, blk.	13	664
	Sand, gravel, boulders	4	668
	Sand, blue	7	675

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

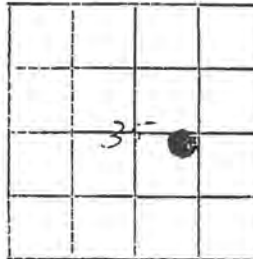
Well No. 6

WELL LOG Well #6 No. Appl: 5254
Cert: 4003-A

Date Sept. 21, 1961

Record by.....

Source driller's record



Location: State of WASHINGTON

County Yakima

Area.....

Map.....

NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec 35 T 14 N, R 18 E

Diagram of Section

Drilling Co. Gray & Osborne, Engr.

Address 228 S. 2d St., Yakima, Wash.

Method of Drilling..... Date 2-23, 1960

Owner Town of Selah, Wash. #6

Address.....

Land surface, datum 115.6 ft above
below

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
------------------	----------	---------------------	-----------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Soil & gravel	12	12
	Sand, rock (water)	56	68
	Clay, yellow, some gravel	5	73
	Sand, rock	177	250
	Sand, rock, some gravel	6	256
	Sand, some clay	25	285
	Sand, gravel, some clay	13	298
	Clay, yellow, some sand	6	304
	" " some gravel	3	307
	" " some gravel & sand	9	316
	Sand & gravel	10	326
	Coarse sand & gravel	4	330
	Gravel, clay, gray	5	335
	" " yellow	5	340
	Sand, rock, some clay	5	345
	Shale, brown, some gravel	9	354
	Clay, red, shale	18	372

Turn up

(over)

Sheet.....of.....sheets

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Well No. 5

WELL LOG

No. Appli. 2220

Date September, 1951

Cert. 1348-A

Record by Don E. Gray

Source Driller's Record

Location: State of WASHINGTON

County Yakima

Area _____

Map _____

Lot 10, Blk. 11, A.H. Rivard Add. E.

to Selah 1/4 sec. 36 T. 14 N., R. 18 W.

Drilling Co. G. D. Hall & Assoc.

Address _____

Method of Drilling _____

Date Aug. 18 1951

Owner Town of Selah

#5

Address _____

Land surface, datum 1100 ft. above
below _____



CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
------------------	----------	---------------------	-----------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses if material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Gravel & boulders	53	53
	Brown clay	147	200
	Fine sand & gravel	10	210
	Brown clay	120	330
	Blue clay	20	350
	Blue clay with streaks of shale & layers of sand	90	440
	Blue clay-streaks of gravel	10	450
	Blue clay	30	480
	Gravel-streaks of clay	10	490
	Gravel	50	540
	Gravel & porous basalt	10	550
	Porous basalt	10	560
	Hard basalt	18	578
	Pump Test:		

Turn up

(over)

Sheet _____ of _____

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Well No. 4

WELL LOG

No. Decla. #408
Cert. #359-D

Date 1920, 19__

Record by C. A. Conley

Source G. W. Decla. Claim



Location: State of WASHINGTON

County Yakima

Area Original Town site of

Map Selah, in block bounded

SW 1/4 SE 1/4 sec. 35 T. 14 N., R. 18 E.

DIAGRAM OF SECTION

adj. by 5th St. & Speyers Road & Bartlett Ave.

Method of Drilling drilled Date Dec. 1944

Owner Town of Selah

Address Selah, Wash.

Land surface, datum 1140 ft. above below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
-------------	----------	------------------	--------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses if material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	<u>no record, Map in folder gives infor</u>		
	<u>Pump Test:</u>		
	<u>Dim: 292' x 10"</u>		
	<u>SWL: 49'</u>		
	<u>Dd: 80'</u>		
	<u>Yield: 300 g.p.m.</u>		
	<u>Casing: 10" dia. Schedule 40 from 0</u>		
	<u>to 200'; 8" dia. Schedule 40 from</u>		
	<u>186' to 295'.</u>		
	<u>Perforations: 1/4" to 1/2" perfor. from</u>		
	<u>200' to 295'</u>		

Turn up

Sheet _____ of _____ sheets

LOG OF WELL: (Describe each stratum or formation clearly, indicate if water bearing, and give thickness and depth as indicated.)

MATERIAL	Thickness (Feet)	Depth to Bottom (Feet)
Soil, sand and gravel	28'	28'
Sand and gravel	42'	70'
Red Clay	15'	85'
Gray Shale	5'	90'
Sandy Shale	20'	110'
Sand	5'	115'
Red Clay	10'	125'
Sand and Gravel	18'	143'
Sand	10'	153'
Sandy Clay	27'	180'
Brown Shale	31'	211'
Red Clay	99'	310'
Hard Sand Stone	10'	320'
Coarse Sand and Gravel	20'	340'
Red Clay	43'	383'
Sand and Gravel	4'	387'
Yellow Clay	18'	405'
Fine Sand	6'	411'
Coarse Sand	8'	419'
Sand	12'	431'

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Well No. 3

WELL LOG

N Decla # 410

Date Dec. 19 1944

Cert. #361-D

Record by G. A. Conley

Source G. W. Decla. Claim

Location: State of WASHINGTON

County Yakima

Area Selah Vie Home Tracts, in

Map block bounded by South

SW 1/4 SE 1/4 sec. 35 T14 N., R. 18 E.

DIAGRAM OF SECTION

~~Property~~ Selah Ave. & Yakima Av. & W. of 5th
Xmas Street

Method of Drilling drilled Date Dec. 1944

Owner Town of Selah WELL 3

Address Selah, Wash. "G.D. HALL & ASSOCIATES"

Land surface, datum 117 ft. above

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
------------------	----------	---------------------	-----------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses if material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

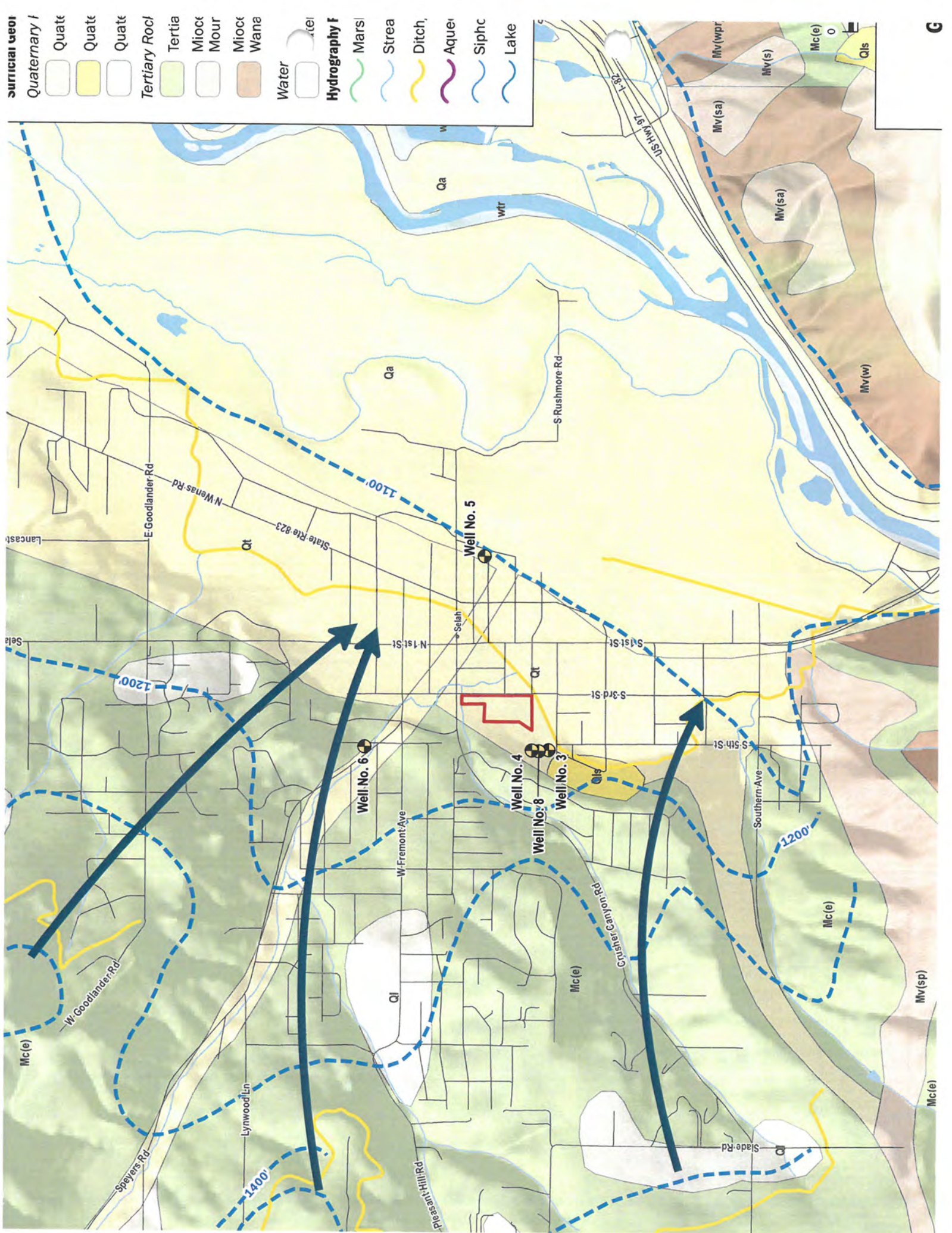
	See following page		
Pump Test:			
	Dim: 431' x 16"		
	SWL: 4'		
	Dd: 40'		
	Yield: 400 g.p.m.		
	Casing: 16" dia. Schedule, from 0'		
	316'; 12" dia. from 302' to 377';		
	10" dia. from 366' to 433'.		
	Perforations:		
	1/4" to 1/2" perfor. from 322' to 338';		
	" " " " 383' to 386';		
	" " " " 406' to 430'.		
	OVER		

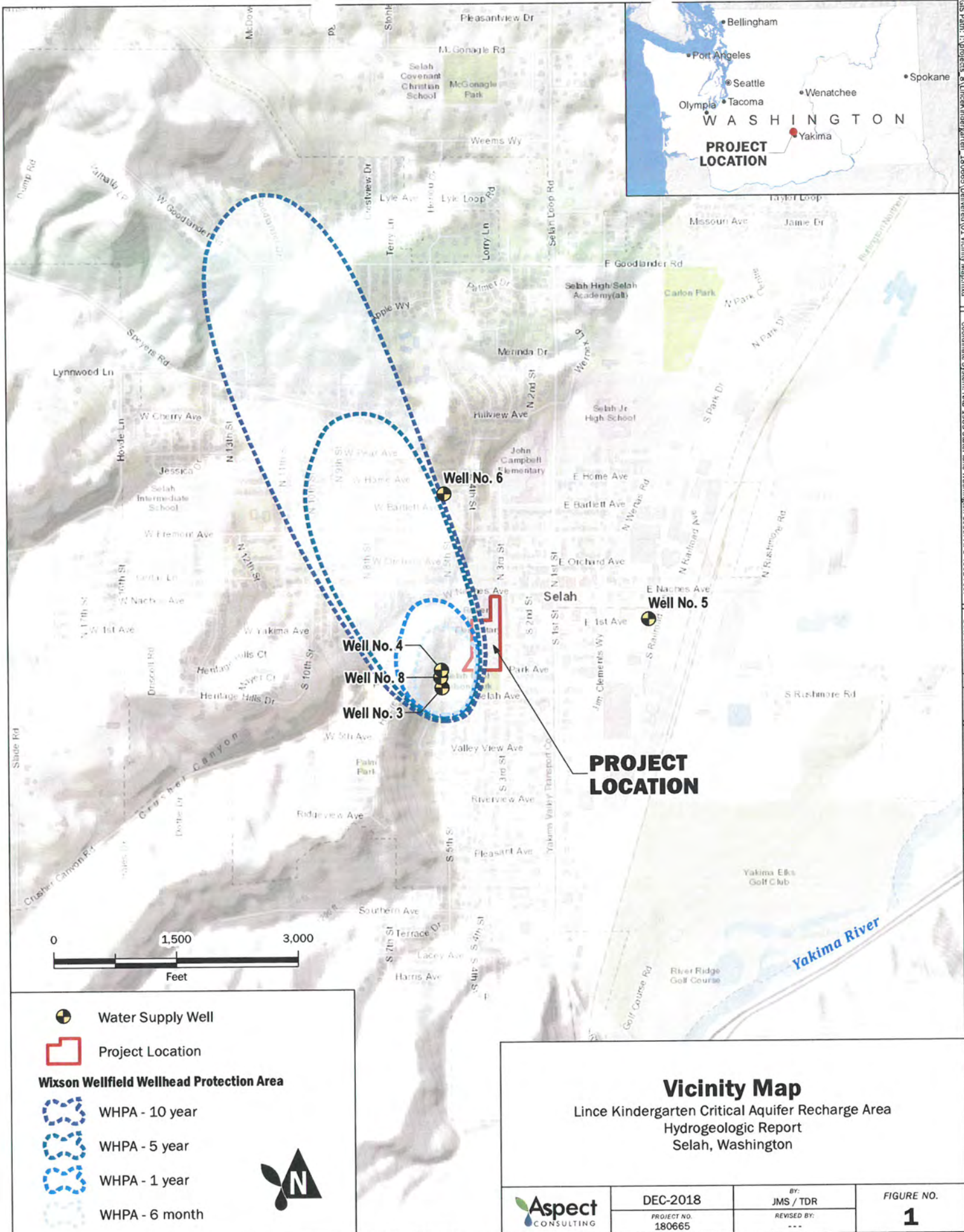
Turn up

Sheet _____ of _____ sheets


ATTACHMENT A

Well Logs






PROJECT LOCATION

-  Water Supply Well
-  Project Location
- Wixson Wellfield Wellhead Protection Area**
-  WHPA - 10 year
-  WHPA - 5 year
-  WHPA - 1 year
-  WHPA - 6 month

Vicinity Map
 Lince Kindergarten Critical Aquifer Recharge Area
 Hydrogeologic Report
 Selah, Washington

	DEC-2018	BY: JMS / TDR	FIGURE NO. 1
	PROJECT NO. 180665	REVISED BY: ---	

FIGURES

Table 1. Neighboring Water Supply Well Summary

180665, Lince - Kindergarten, Selah, WA

Owner	Ecology Well Tag No.	Well Surface Diameter (inches)	Well Depth (feet)	First Open Interval (feet bgs)	Construction Completed	Source Aquifer	Notes
City of Selah (Well No. 3)	--	16	431	322	Dec-44	Upper Ellensburg	Wixson Wellfield
City of Selah (Well No. 4)	--	10	292	200	Jan-47	Upper Ellensburg	Wixson Wellfield
City of Selah (Well No. 5)	--	24	578	200	Aug-51	Upper Ellensburg	
City of Selah (Well No. 6)	--	20	966	86	Feb-60	Saddle Mountain Basalt	
City of Selah (Well No. 8)	AAS171	16	670	297	Apr-10	Upper Ellensburg	Wixson Wellfield

TABLES

8 Limitations

Work for this project was performed for Selah School District No. 119 (Client), and this report was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This report does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

7 References

- Huibregtse, Louman Associates, Inc (HLA), 2014, City of Selah Water System Plan. Project No. 13046, October 2014.
- Jones, M.A., Vaccaro, J.J., and Watkins, A.M., 2006, Hydrogeologic framework of sedimentary deposits in six structural basins, Yakima River Basin, Washington: U.S. Geological Survey Scientific Investigations Report 2006-5116, 24 p.
- Kahle, S.C., Morgan, D.S., Welch, W.B., Ely, D.M., Hinkle, S.R., Vaccaro, J.J., and Orzol, L.L., 2011, Hydrogeologic framework and hydrologic budget components of the Columbia Plateau Regional Aquifer System, Washington, Oregon, and Idaho: U.S. Geological Survey Scientific Investigations Report 2011-5124, 66 p.
- Vaccaro, J.J., Jones, M.A., Ely, D.M., Keys, M.E., Olsen, T.D., Welch, W.B., and Cox, S.E., 2009, Hydrogeologic framework of the Yakima River basin aquifer system, Washington: U.S. Geological Survey Scientific Investigations Report 2009-5152, 106 p.
- Waite, Richard B, Jr., 1979, Late Cenozoic Deposits, Landforms, Stratigraphy, and Tectonism in Kittitas Valley, Washington. Geological Survey Professional Paper 1127.
- Washington State Department of Ecology (Ecology), 2004, Stormwater Management Manual for Eastern Washington, Publication No. 04-10-076, September 2004.
- Washington State Department of Ecology (Ecology), 2005, Critical Aquifer Recharge Areas Guidance Document, Publication No. 05-10-028, January 2005.
- Washington State Department of Health (DOH), 2018, Office of Drinking Water SWAP Source Water Assessment Program database and map, available at: <https://fortress.wa.gov/doh/eh/dw/swap/maps/> .

6 Conclusions and Recommendations

6.1 Conclusions

Approximately 2.4 acres of the proposed Project lie within the City's wellhead protection area of the Wixson Wellfield, capturing water from a depth of at least 200 feet bgs in the Ellensburg aquifer.

The Ellensburg aquifer near the Project site does not meet the criteria for a CARA as defined by WAC 365-190-030(3) because the land surface around the site does not provide a critical recharging effect to the aquifer, which is primarily recharged upgradient from the Project.

The susceptibility of the Ellensburg aquifer to surface contamination is locally considered to be low. Water infiltrating from ground surface at the Project will encounter low permeability layers (100 to 200-foot-thick) within the Upper Ellensburg Formation that overlies the water bearing zones of the Ellensburg aquifer. As a result, much of the water infiltrating at the Project will flow easterly away from the Wixson Wellfield, located cross-gradient. An upward vertical gradient further limits potential for contamination to the well.

Any potential long- or short-term risk to the aquifer from surface contamination will be mitigated by proper application of BMPs consistent with the Stormwater Manual and recommendations in this report.

6.2 Recommendation

We recommend the following:

- Engineering for the proposed project should include a stormwater site plan incorporating runoff, flow control, and treatment BMPs consistent with the Stormwater Management manual for Eastern Washington and as outlined in Section 5 of this report.

Should a release reach a storm drain before the drain could be protected, contaminants could reach the stormwater facility (and potentially the subsurface). In this case, after addressing surface occurrences of spilled products as described above, spill response would include evaluating the potential for free product transport to the subsurface. Releases of free product to the subsurface would be addressed as described in the *Remediation* section below.

5.2 Remediation of Potential Subsurface Releases

If liquid products are released to the subsurface, a number of actions can be taken to prevent migration of the products to the underlying aquifer. The extent of the release would be characterized using standard subsurface exploration techniques (such as drilling and soil sampling), and releases to soil could be mitigated using one or more of the following technologies:

- **Excavation.** Shallow contaminated soil may be excavated and disposed of off-site (e.g., at an appropriate landfill). Given the physical characteristics (relatively viscous liquids) and maximum on-site quantities of most products, products expected to be used on, or transported to, the site are not likely to result in extensive subsurface impacts should they be released to the environment. It is expected that excavation will be suitable to address most potential subsurface releases.
- **Soil Vapor Extraction.** Removal of volatile compounds such as methanol may also be addressed *in situ* using soil vapor extraction. In this technology, volatile products are removed from the subsurface by applying a vacuum to the underlying soil and extracting and treating the soil vapor.

Given the potential for a thin unsaturated zones above the shallowest water-bearing zone at the Project site, any release should be addressed immediately to avoid reaching groundwater. However, in the event a release reaches groundwater, contamination could be contained on-site and treated with a number of commonly-applied remedial technologies, including:

- **Bioremediation.** The products that will be used at the Site are highly biodegradable by native bacteria present in soil and groundwater. Natural removal of products from the subsurface can also be enhanced by adding constituents, such as oxygen, that encourage microbial growth.
- **Air Sparging.** This technology involves removing volatile compounds from groundwater by injecting air into groundwater wells. The vapors are typically collected with a coupled soil vapor extraction system.

silt fence, interceptor dikes, ditches and swales, grass lined channels, pipe slope drains, level spreaders, silt dikes, straw wattles, sediment traps, and outlet protections.

Selection of adequate temporary source control and runoff conveyance/treatment BMPs should be made by a qualified designer/engineer and adopted by the site operator in conjunction with the Certified Erosion and Sediment Control Lead (CESCL).

5.1.2 Preservation of Natural Drainage, Water Quality Treatment and Flow Control

Natural drainage patterns should be maintained to the extent practical, consistent with Section 2.2.4 of the Stormwater Manual. Natural drainage patterns likely consist of a combination of surface water flow and infiltration. Existing drainage patterns should be established through topographic analysis in conjunction with consideration of soil types and existing landcover. Drainage should be concentrated outside of the 10-year TOT zone.

Stormwater runoff from new impervious pollution-generating surfaces (e.g., pavement and rooftops) should be captured in stormwater treatment and flow-control BMPs to limit surface runoff quantities to pre-existing conditions consistent with hydraulic analyses performed in accordance with the Stormwater Manual; Chapter 4 and flow management criteria of Section 2.2.6. Low impact, infiltration-related BMPs should be evaluated for use in conjunction with the design, provided they can be engineered to prevent degradation of groundwater quality (post-treatment) consistent with CARA Guidance. Examples of minimum basic stormwater treatment and flow control BMPs that may be acceptable for use at this site include the following:

- BMP T5.10 Infiltration ponds
- BMP T5.20 Infiltration trenches
- BMP T5.21 Infiltration swales
- BMP T5.30 Bio-infiltration swales

Based on Section 5.4.2 of the Stormwater Manual, these facilities are capable of removal and reduction of target pollutants to levels that will not adversely affect public health or beneficial uses of surface and groundwater resources, and will not cause a violation of groundwater quality standards (when properly engineered). It is important to note that recommended practice when utilizing infiltration facilities includes pretreatment to reduce the occurrence of plugging. Should the local jurisdiction determine that either phosphorus or metals removal is required, additional treatment BMP may be necessary.

5.1.3 Spill Response Actions

In an unlikely worst-case scenario, a release could occur on the kindergarten campus. Cleanup of spills would commence immediately after the release initiated by the operator of the vehicle (if commercial) or local fire department and hazardous response teams to contain the release within the paved roadway using spill containment booms and absorbent materials.

5 Mitigation: BMPs to Protect Groundwater and Promote Recharge

The previous section establishes local aquifer susceptibility from the Project as low. However, Chapter 11.50.080(d) of the SMC requires the applicant to avoid material impacts that degrade the function and values of critical areas, and that mitigation occur onsite, when possible, and sufficiently and reasonably maintain the functions and values of the critical area.

This section provides recommendations to mitigate potential long-term cumulative and short-term worst-case impacts to the aquifer consistent with the SMC. Mitigation recommendations were selected to address the potential for negative impacts to groundwater quality resulting from the proposed development under two scenarios: impacts of routine day-to-day use of the roadway and a worst-case scenario involving a spill or release of contaminants along the roadway.

Recommended mitigation includes implementation of Best Management Practices (BMPs). The primary purpose of BMPs are to protect water resources through prevention of contamination, reduction of pollutant concentrations and loads, and/or management of discharge flow rates. Section 3 of the *Critical Aquifer Recharge Area Guidance* provides recommendations on protection of the functions and values of critical aquifer recharge areas (Ecology, 2005). Step 8 of Section 3 of that document provides recommendations related to recharge within critical aquifer areas, including preference for low impact development techniques to promote recharge.

Low-impact development techniques include surficial infiltration managed as close to the source as possible in order to mimic natural hydrologic conditions. Implementing surficial infiltration BMPs that are appropriately engineered consistent with Ecology's *Stormwater Management for Eastern Washington* (Stormwater Manual; Ecology, 2004) should allow for adherence to both Ecology's critical aquifer recharge guidance and section 11.50.110(c) of the SMC, which allow for uses which do not significantly diminish aquifer recharge.

5.1 Engineering Controls

5.1.1 Construction Stormwater BMP

Stormwater runoff from construction-related activities should be managed in accordance with Ecology and National Pollution Discharge Elimination System (NPDES) standards, including development of a Stormwater Pollution Prevention Plan (SWPPP) and implementation of adequate construction stormwater temporary erosion and sediment control BMPs. Construction-related BMPs fall into two main categories: Source Control and Runoff Quantity/Treatment.

Source control BMPs include the preservation of natural vegetation, maintaining buffer zones, high visibility fencing, stake and wire fencing, and stabilizing construction entrances. Temporary runoff conveyance and treatment BMPs include inlet protections,

contaminants could impair receiving surface and groundwater bodies when they are dissolved into the water column or otherwise transported to a receiving water body.

Local background water quality data at the Project site is limited to regular reporting of source water quality sampling by the Selah Water System. DOH requires the Selah Water System to monitor inorganic chemicals, nitrate/nitrite, volatile organic chemicals, synthetic organic chemicals, gross alpha, and radium 228. Results of water quality monitoring indicate zero exceedances for all monitored parameters.

4.4.1 Aquifer Susceptibility

The susceptibility of an aquifer to pollution from contaminants originating at the ground surface depends on the characteristics of the contaminant and properties of the vadose zone forming the unsaturated area between the ground surface and the underlying water table. DOH's SWAP database rates the susceptibility of the Wixson Wellfield as high (DOH, 2018); whereas, the Selah Wellhead Protection Plan rates the susceptibility as moderate.

The water bearing zones in the Ellensburg aquifer are about 200 to 300 feet bgs and the aquifer is overlain by an aquitard 100 to 200-feet thick comprised of clayey and mudstone units. The hydraulic conductivity of the aquitard is likely controlled by the fine-grained matrix, which also presents a high degree of adsorption of contaminants as they migrate through the soil column. The presence of the thick aquitard provides a natural measure of protection to the underlying Ellensburg aquifer by retarding vertical migration of contaminants from the surface. The Ellensburg aquifer and source for the Wixson Wellfield therefore is considered to have a low susceptibility to contamination based on site-specific conditions. The higher ranking in the SWAP database and Selah Wellhead Protection Plan may be due to the inventory of existing and potential sources of groundwater contamination within the wellhead protection area.

The following section outlines recommendations for mitigation of potential contamination to the water table and semi-confined to confined aquifers.

toward Selah Gap and semi-confined. The semi-confined condition is created due to the large difference in vertical and horizontal hydraulic conductivity. Near Selah Gap folding and faulting of the CRBG forms a hydraulic barrier, forcing groundwater to discharge into the Yakima River. Figure 3 below illustrates the various groundwater conditions.

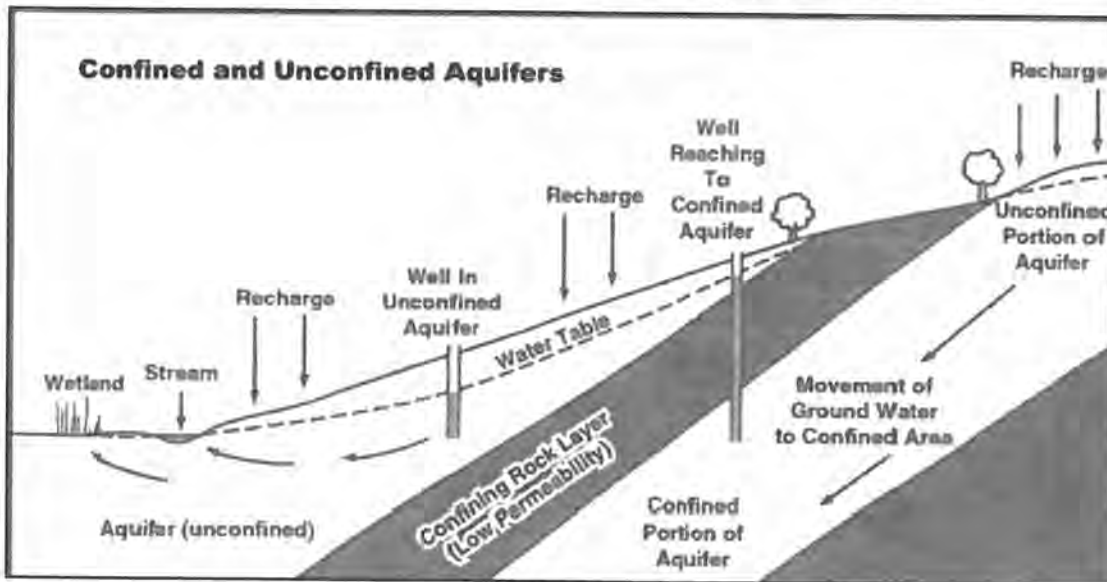


Figure 3. Groundwater Conditions

4.3 Groundwater Quantity

The proposed Project involves construction of buildings and newly paved surfaces resulting in a net increase in impervious surface. The Project includes stormwater appurtenances to convey runoff toward onsite bio-infiltration swales and drywells retention and infiltration of stormwater away from the wellhead protection area. The loss in grass cover and increase in impervious surface may result in a net gain (due to decreased evapotranspiration) of precipitation infiltrating the subsurface to the water table aquifer. However, the Project will result in no change in recharge to the Ellensburg aquifer due to the thick confining unit, and upward vertical gradient, between the water table aquifer and the Ellensburg aquifer.

The net impact of the Project on water quantity to the Ellensburg and Saddle Mountains Basalt will be *de minimis*.

4.4 Groundwater Quality

Runoff from parking lot and roofs can be contaminated with pollutants from vehicles including oil and grease, polycyclic aromatic hydrocarbons (PAHs), lead, zinc, copper, cadmium, sediments (soil particles), and road salts and other deicers. Additionally, landscaping activities associated with the Project can contribute pollutants to runoff including herbicides, pesticides, and nutrients (from fertilizers). The Project as proposed will manage sewage through connection to the City's sewer system.

In a remote worst-case scenario, contaminants in larger quantities could be released onto the roadway in the event of a vehicle accident, for example. If left untreated, these

4 Hydrogeology

4.1 Groundwater Occurrence

Principal aquifers in the Project area include water-bearing intervals of the Ellensburg and Saddle Mountains Basalt formations. All water supply wells within 0.5 mile of the Project appear to be completed in these two aquifers. Water-bearing zones typically occur within primary porosity of weakly cemented gravels, bedding planes, fractured fine-grained indurated sedimentary beds, vesicular basalt flow tops, fracture basalt, and interflow zones of the basalts, with much of the thickness of the unfractured fine-grain sedimentary and basalt units between water bearing zones acting as an aquitard or barrier to groundwater movement. The Ellensburg aquifer is largely semi-confined, and the Saddle Mountains Basalt aquifer is largely confined. Both the Ellensburg and Saddle Mountains Basalt aquifers are viable aquifers for water supply and are the main water source for the City and surrounding commercial and residential users.

Where present, overlying alluvium and Thorp Gravel may host a surficial water table aquifer. This thin surficial water table aquifer in the Project area does not present a viable aquifer for water supply. However, this water table aquifer is likely in direct hydraulic continuity with surface water and is important for ecological health.

4.2 Groundwater Flow

Groundwater flow in the water table, Ellensburg, and Saddle Mountains Basalt aquifers is described by Vaccaro et al 2009. In general, the aquifers mimic land surface topography toward the Yakima River and down the Yakima River Valley. Figure 2 depicts the direction of groundwater flow. Groundwater flow within the water table aquifer occurs between grains of unconsolidated rocks with recharge occurring from water distribution line leakage, irrigation return flow, and precipitation in the immediate area. Groundwater flow direction of the water table aquifer is largely controlled by the topography of the underlying Ellensburg Formation, which forms a low permeability (i.e. low hydraulic conductivity) unit restricting downward flow of groundwater. Groundwater flow within the Ellensburg occurs between the interstitial space of sedimentary grains, bedding planes, and fractures. Recharge of the Ellensburg aquifer likely occurs at higher elevation (Naches-Wenas highlands) and along contacts of the CRBG and Ellensburg Formation. Groundwater flow occurs in a semi-confined space and is likely both structurally and hydraulically driven from areas of high pressure to low pressure. Similarly, the Saddle Mountains Basalt aquifer received recharge along contacts between successive basalt flows likely in the area of Mount Clemens and along Umtanum Ridge, and groundwater flow occurs in a semi-confined to confined space primarily driven by hydraulic head and structurally controlled.

The hydrogeologic conceptual model of groundwater flow is that the water table aquifer mimic topography; whereas, groundwater flow in the Ellensburg and Saddle Mountains Basalt aquifers are controlled by geologic structures (e.g. folds and faults). For example, recharge of the Ellensburg aquifer occurs in the Naches-Wenas highlands, which provides the high hydraulic head. Near the Project, the groundwater flow pathway is

ASPECT CONSULTING

of hyperconcentrated flood flow deposits to reworked sediments that are moderately sorted, bedded and crossbedded (Waite, 1979).

The sedimentary aquifer consists mostly of semiconsolidated clay, silt, and sand with some gravel and conglomerate. Thickness of individual beds within the aquifer range from a few feet to more than 100 feet. Strata of clay, silt, and fine sand usually are somewhat thicker than strata of the coarser materials. Total thickness is approximately 400 to 600 feet in the Project area. The Ellensburg Formation is commonly used for water supply with relative high yields.

The stratification of fine-grained, indurated, sediments of the Ellensburg Formation create a semi-confining aquifer condition. In addition, review of static water levels for Well Nos. 3, 4, and 8, which are completed at different depths, indicates an upward vertical gradient.

The subject Wixson wellfield is completed in the water bearing zone of the Ellensburg Formation.

- **Saddle Mountains Basalt** – The CRBG is the basement bedrock unit and defined by the Pomona Member of the Saddle Mountains Basalt Formation unit in the area. This unit is underlain by the differentiated Ellensburg Formation sedimentary interbed known as the Selah Interbed. Groundwater in the CRBG aquifer system ultimately discharges laterally out of the Selah Basin into the Yakima River Valley near Selah Gap. In addition, vertical hydraulic gradients within the basalt aquifer indicate potential for upward vertical leakage of groundwater into the overlying aquifers.

Based on review of well logs, the City's existing wells are completed in either the Upper Ellensburg (e.g. Wixson Wellfield) or Saddle Mountains Basalt Formation (e.g. Well No. 6).

3 Geology

The Project is located on the west-central margin of the Columbia River Plateau, a structural province formed by a series of continental basalt flows collectively known as the Columbia River Basalt Group (CRBG). The Columbia Plateau includes most of the Columbia River Basin and has been divided into three physiographic regions known as the Yakima Fold Thrust Belt (YFTB), Palouse Slope, and Blue Mountains sub-provinces (Kahle et al 2011). The Project is located near the western portion of the YFTB sub-province. The following sections provide details of the geologic structure and stratigraphy and groundwater occurrence within this area. Figure 2 shows the surficial geology of the area.

Local geologic characteristics are largely the result of regional tectonic processes. The City of Selah is located within the Selah Basin of the YFTB. The Project is on the north side of the east-west trending Yakima Ridge anticline, and south of the Selah syncline.

Regional bedrock is dominated by the Columbia River Basalt Group (CRBG), a series of stacked basalt flows and sedimentary interbeds that were deposited 17 and 6 million years ago during the Miocene epoch. The CRBG is underlain, intercalated, and overlain by volcanoclastic sedimentary deposit (Ellensburg Formation) derived from ancestral cascade volcanoes. The Ellensburg Formation is overlain by ancestral Yakima River deposits known as Thorp Gravel, and recent alluvial deposits.

3.1 Site Hydrostratigraphic Units

Hydrogeology of the area is dominated by four principal geologic units. Characteristics and distribution of each unit is described as follows:

- **Alluvial Terrace Deposits** - Surface sediments are dominated by quaternary unconsolidated or semiconsolidated alluvial terrace deposits. The deposits are composed of clay, silt, sand, gravel, and/or cobble sized grains deposited by fluvial processes associated with the Yakima River.
- **Thorp Gravel** – This older, Yakima River Valley filling sequence consists of weakly cemented clay and cobble to gravel conglomerate with siltstone and sandstone interbeds that was deposited in the Selah Basin after the Ellensburg Formation. The Thorp Gravel is generally described as “cemented sand and gravel” and “black”, “red”, and/or “multicolored” in regional well logs and is assumed to be lower-permeability with respect to overlying alluvium. Local thickness of the Thorp Gravel is less than 200 feet (Jones et al 2006). The Thorp Gravel is generally considered to be in hydraulic continuity with the Yakima River.
- **Upper Undifferentiated Ellensburg Formation** - The Upper Undifferentiated Ellensburg (Ellensburg) Formation is largely the result of deposition of volcanoclastic sediment from nearby domal volcanoes. The deposits are composed of intercalated conglomerates, sandstones, and siltstones. These sediments often occur as stratigraphic sequences alternating between laterally extensive depositional sheets

2.2 Water Systems and Surface Water in the Project Vicinity

Public drinking water supply systems are regulated under the Safe Drinking Water Act (SDWA). DOH regulates Group A systems (15 or more connections). Under the SDWA, wellhead protection areas are defined and the susceptibility of wells to contamination is rated. These zones are based on estimated times of travel of contaminants to the well. The SMC 11.50.110 designates the areas within a 10-year TOT zone of a public supply well as potential CARAs.

Locations and information on nearby public water systems were obtained by reviewing the SWAP online map. Figure 1 illustrates the location of the Project relative to the Wixson Wellfield wellhead protection areas. The western portion of the Project lies within less than:

- 2.4 acres of the 10-year TOT
- 1.5 acres of the 5-year TOT
- 0.9 acres of the 1-year TOT
- 0.5 acres of the 6-month TOT of the Wixson Wellfield

The City's Well No. 6 lies about 1,385 feet to the northwest of the Project. This well is hydraulically upgradient of the Project site (see Section 4.2, Groundwater Flow).

As stated in the previous section, there are no domestic supply wells within 0.5-mile radius of the Project. The surrounding residential and commercial buildings receive water from the Selah Water System.

DOH has rated the Wixson Wellfield as having high susceptibility to contamination; whereas, the City's Wellhead Protection Plan (WHPP) rates the susceptibility of the Wixson Wellfield as moderate. The WHPP lists 8 sources of contamination within the 10-year TOT.

Chapter 11.50.080(c) of the SMC requires identification of all critical area, wetland, water bodies and buffers adjacent to the Project area. No critical areas were identified adjacent to the Project area, aside from the Wixson Wellfield wellhead protection area.

2 Methods of Investigation

Aspect reviewed existing data and reports to form an understanding of the surface and groundwater conditions the Project area. Information related to well logs, water systems, geology, and water quality were obtained from the Washington Department of Ecology (Ecology) online water well report database, the Washington Department of Health SENTRY database and Source Water Assessment Program (SWAP), the Washington State Geologic Survey Geologic Information Portal, City of Selah Wellhead Protection Plan, and the City of Selah 2014 Water System Plan (HLA 2014). No new information was collected, and a site visit was not performed for this CARA study.

2.1 Wells in the Project Vicinity

The Ecology online water well database was queried to search for water supply wells within 0.5 mile of the Project Site. These well reports are included in Appendix A. The well reports were used to support development of a conceptual hydrogeologic framework and evaluation of aquifer conditions and susceptibility.

Locations of wells within 0.5 mile are shown on Figure 1 and well characteristics are provided in Table 1. Locations for three wells operated by the City—Well Nos. 3, 4 and 8—were confirmed using the Washington State Department of Health (DOH) Source Water Assessment Program (SWAP) online map and City of Selah 2014 Water System Plan (HLA 2014). These wells are located approximately 365, 285, and 245 feet southwest of the Project, respectively. The City's Well Nos. 3, 4, and 8 are collectively referred to as the Wixson Wellfield in this report and are the subject wells triggering the CARA study under the SMC.

Two additional City water system supply wells (Well Nos. 5 and 6) were located using SWAP and HLA 2014 and are located approximately 1,825 and 1,380 feet east and northwest, respectively, of the Project. No domestic water supply wells were identified within a 0.5-mile radius of the Project.

The Wixson Wellfield wells were drilled between 1944 and 2010 using cable tool and air rotary methods. The wells are completed in the Ellensburg aquifer and are open to water bearing zones between 200 and 656 feet below ground surface (bgs). Information regarding the surface, or formation, seal for Well Nos. 3 and 4 is not available; however, cable tool drilling method often requires driving casing. Driving the casing through clayey deposits (typical with Ellensburg Formation) can form a seal between the surface and open well intervals. Well No. 8 has a bentonite and neat cement seal from land surface to approximately 264 feet bgs. The driller's log incorrectly states the seal extends to 304 feet bgs.

Well Nos. 3 and 4 have a current yield of 400 gpm; whereas, Well No. 8 has a yield of 1,100 gpm (HLA 2014). Water produced from the City's wells do not require treatment aside from chlorination prior to entering the City's distribution system (HLA 2014).

1.1 Proposed Project Summary

The proposed Project will consist of a new kindergarten campus for Selah. The Project is scheduled to start Spring 2019 and conclude in the summer 2020. The new facility, which is designed to accommodate 360 students, will be constructed at the existing Lince campus. The 48,164 square foot school will be built to support the varying educational needs of kindergarten learners. The facility will be comprised of age appropriate indoor and outdoor learning environments with 20 classrooms. There will be locations for special needs and programs including indoor active learning rooms, an art room, resource classroom, OT/PT room, library, music room, fitness area/cafeteria and other spaces typical of an elementary school. The campus will have associated peripheral exterior concrete slabs, asphalt parking and driveway access to the adjacent 3rd Street and Naches Avenue, and facilities for stormwater management.

1 Introduction

Aspect Consulting, LLC (Aspect) prepared this Critical Aquifer Recharge Area (CARA) Hydrogeological Report for Selah School District No. 119 (Selah), who intends to construct the Lince Kindergarten Campus at the Robert Lince Early Learning Center (Project) in Selah, Washington (Figure 1). The purpose of this study is to evaluate the potential for the proposed Project to degrade or deplete the groundwater resource.

The proposed Project will be located within Selah City limits on land that is currently paved parking and irrigated playground associated with Robert Lince Early Learning Center. The proposed construction will cover approximately 6 acres of the 13.5-acre Yakima County Tax Parcel 181435-44456 (Site).

The City of Selah (City) is requiring completion of a CARA hydrogeological study pursuant to Chapter 11.50.110 of the Selah Municipal Code (SMC) because about 2.4 acres of the western portion of the development is proposed to be constructed within the wellhead protection area for an existing public water source.

The City of Selah Group A Public Water System, No. 77400 (referred to as the Selah Water System) Wixson Wellfield is located approximately 265 feet (Well No. 4) to 345 feet (Well No. 3) southwest of the southwestern portion of the proposed Project (Figure 1). The next nearest well is a water supply well operated by the City (Well No. 6, Ecology Well ID 334196) and located about 1,400 feet northwest (upgradient) of the Project.

In evaluating aquifer susceptibility to potential contamination resulting from the proposed development, this study determines whether the aquifer meets the definition of a CARA under WAC 365-190-030(3):

"Critical aquifer recharge areas" are areas with a critical recharging effect on aquifers used for potable water, including areas where an aquifer that is a source of drinking water is vulnerable to contamination that would affect the potability of the water, or is susceptible to reduced recharge.

Presented herein are discussions of the proposed construction, geology, and hydrogeology near the proposed development, and susceptibility of the local aquifer(s). This discussion is followed by recommendations to mitigate potential impacts to the aquifer through Best Management Practices (BMP) that can be implemented to design, construct, and maintain the Project to satisfy the dual priorities of protecting local aquifers and developing the Project.

This report was prepared to meet the City's Critical Aquifer Recharge Areas Ordinance for a hydrogeological assessment. This report satisfies requirements for hydrogeological reports presented in SMC 11.50.080(c) *Critical Areas Report*, 11.50.080(d) *Mitigation Requirements*, and 11.50.110(c) *Critical Aquifer Recharge Area Performance Standards*.

Executive Summary

Aspect Consulting, LLC (Aspect) prepared this Critical Aquifer Recharge Area (CARA) Hydrogeological Report for Selah School District No. 119 (Selah), who intends to construct the Lince Kindergarten Campus at the Robert Lince Early Learning Center (Project) in Selah, Washington (Figure 1).

The Project lies within the 10-, 5-, 1-year, and 6-month time of travel (TOT) zone for the City of Selah Water System Well Nos. 3, 4, and 8 (Wixson Wellfield) as established by the Washington State Department of Health (DOH). As a result, the City of Selah (City) is requiring completion of a CARA hydrogeological study under Chapter 11.50.110 of the Selah Municipal Code (SMC) because the proposed Project will be constructed within the wellhead protection area for an existing public water source. The purpose of this study is to evaluate the potential for the proposed Project to degrade or deplete the groundwater resource.

Approximately 2.4 acres of the proposed Project lies within the wellhead protection area of the City's Wixson Wellfield. The next nearest public supply well is located about 1,400 feet to the northwest (City's Well No. 6). No other public water supply wells are present in the vicinity.

Two principal aquifers were identified in the Project vicinity: the Upper Undifferentiated Ellensburg (Ellensburg) aquifer and the underlying Saddle Mountain Basalt aquifer. The City's Wixson Wellfield withdraws water from the Ellensburg aquifer. The Ellensburg aquifer is semi-confined with water bearing zones occurring approximately 300 to 650 feet below ground surface (bgs) near the Project. Groundwater generally flows from northwest to southeast. The Project is located cross-gradient from the Wixson Wellfield.

Key Conclusions of this report are:

- The Ellensburg aquifer near the Project site does not meet the criteria for a CARA as defined by WAC 365-190-030(3) because the land surface around the site does not provide a critical recharging effect to the aquifer, which primarily receives recharge upgradient from the Mount Clemans and Naches-Wenas highlands area.
- The susceptibility of the Ellensburg aquifer to surface contamination is locally considered to be low based on site-specific conditions. Water infiltrating from ground surface at the Project will encounter permeable layers of recent alluvial water table aquifer, which overlies the Ellensburg aquifer. As a result, much of the water infiltrating at the Project will flow in an easterly direction away from the City's Wixson Wellfield. Further limiting the potential for contamination to the well are a greater than 200-foot-thick confining layer (mudstone) between the recent alluvium and water bearing zones of the Ellensburg aquifer, and an upward vertical gradient between the Ellensburg and alluvial aquifer.
- Any potential long- or short-term risk to the aquifers from surface contamination will be mitigated through proper application of best management practices consistent with the Washington State Department of Ecology's (Ecology) Stormwater Manual and recommendations in this report (Sections 5 and 6).

List of Tables

- 1 Characteristics of Neighboring Wells

List of Figures

- 1 Vicinity Map
- 2 Surficial Geology and Groundwater Flow Map
- 3 Groundwater Conditions (*in-text*)

List of Appendices

- A Well Logs

Contents

Executive Summary	ES-1
1 Introduction	1
1.1 Proposed Project Summary	2
2 Methods of Investigation	3
2.1 Wells in the Project Vicinity	3
2.2 Water Systems and Surface Water in the Project Vicinity	4
3 Geology	5
3.1 Site Hydrostratigraphic Units	5
4 Hydrogeology	7
4.1 Groundwater Occurrence.....	7
4.2 Groundwater Flow	7
4.3 Groundwater Quantity.....	8
4.4 Groundwater Quality	8
4.4.1 Aquifer Susceptibility	9
5 Mitigation: BMPs to Protect Groundwater and Promote Recharge	10
5.1 Engineering Controls.....	10
5.1.1 Construction Stormwater BMP	10
5.1.2 Preservation of Natural Drainage, Water Quality Treatment and Flow Control.....	11
5.1.3 Spill Response Actions.....	11
5.2 Remediation of Potential Subsurface Releases	12
6 Conclusions and Recommendations	13
6.1 Conclusions.....	13
6.2 Recommendation	13
7 References	14
8 Limitations	15



LINCE KINDERGARTEN
CRITICAL AQUIFER RECHARGE AREA
HYDROGEOLOGICAL REPORT
Selah, Washington

Prepared for: Selah School District No. 119

Project No. 180665 • December 19, 2018 CLIENT REVIEW DRAFT

Aspect Consulting, LLC

Jason M. Shira, LHG, RG
Project Hydrogeologist
jshira@aspectconsulting.com

Tyson D. Carlson, LHG
Associate Hydrogeologist
tcarlson@aspectconsulting.com

V:\180665 Lince Kindergarten\Deliverables\Draft Hydrological Report\Lince Hydrogeological Report_Draft.docx

LINCE KINDERGARTEN
CRITICAL AQUIFER RECHARGE AREA
HYDROGEOLOGIC REPORT

Selah, Washington

Prepared for: Selah School District No. 119

Project No. 180665 • December 19, 2018 CLIENT REVIEW DRAFT



e a r t h + w a t e r



CITY OF SELAH

Planning Department • 222 South Rushmore RD. • Selah, WA 98942 • Ph: (509) 698-7365 • www.selahwa.gov

October 12, 2018

FILE NUMBER: SEPA-2018-001, ADJ-18-006, & CL3-2018-001
APPLICANT: Selah School District
APPLICANT ADDRESS: 316 W. Naches Ave., Selah, WA 98942
PROJECT LOCATION: 316 W. Naches Ave., Selah, WA 98942
TAX PARCEL NO: 181435-44456
DATE OF REQUEST: October 10, 2018
SUBJECT: Notice of Complete Application for Selah School District

To whom it may concern:

The application for your Class (3), Administrative Adjustment and SEPA Review for the Selah School District was received on October 10, 2018. As of October 12, 2018, after receipt of your updated site plan your application is considered **complete** as required by the City of Selah's Municipal Code. In the coming week the City will proceed with public notice for your application.

Sincerely,

Jeff Peters
Community Development Supervisor





CITY OF SELAH

Planning Department • 222 South Rushmore RD. • Selah, WA 98942 • Ph: (509) 698-7365 •
www.selahwa.gov

CITY OF SELAH NOTICE OF DEVELOPMENT APPLICATION & ENVIRONMENTAL REVIEW OPPORTUNITY TO PROVIDE COMMENT

Application: On October 11, 2018, the City of Selah Planning Department received a Class 3 Review, Administrative Adjustment, and State Environmental Checklist application from NAC Architecture and HLA Engineering and Land Surveying Inc. on behalf of the Selah School District #119 to construct a new elementary school, increase the maximum lot coverage of the site from 35% to 38%, and provide environmental review of the proposal in its entirety. The proposed construction constitutes 48,164 sq. ft. of building space with 20 class rooms, a fitness room/cafeteria, music room/platform, library, administrative offices, support space play areas, 76 additional off-street parking stalls, and off-street bus and parent drop-off areas located on the subject property of the existing Selah Academy, Early Learning Center and the Selah School District Administration offices.

Project Address: 316 W. Naches Ave., Selah, WA 98942

Tax Parcel Number: 181435-44456.

Zoning District of Subject Property: One-Family Residential (R-1)

File Numbers: SEPA#2018-001, ADJ#-18-006, & CL3#2018-001

The application was determined complete for processing on October 12, 2018. The decision on this application will be made within one-hundred twenty days of the determination of complete application.

Approvals, Actions and Required Studies: Class 3 Use Review & Administrative Adjustment.

Environmental Review: The City of Selah is the lead agency for this proposal under the State Environmental Policy Act (SEPA). The City has reviewed the proposal for probable adverse environmental impacts and expects to issue a Mitigated Determination of Nonsignificance (MDNS). The optional DNS process in WAC 197-11-355 is being used. This may be your only opportunity to comment on the environmental impacts of the proposal. Mitigation measures being considered include requirement of a dust control plan, shielded lighting, and installation of sidewalk and public street improvements. The proposal may include mitigation measures regardless of whether an EIS is prepared. After all comments have been received and considered, a threshold determination will be made without an additional comment period. Comments received by 5:00 PM October 29, 2019, will be considered in making the determination. A copy will be sent to those who comment or may be obtained upon request. The determination will have specific appeal information and may be appealed within five business days of issuance.

Request for Written Comments on the Proposal Written comments concerning the proposed Class 3 Use application and environmental checklist will be accepted during the public comment period that ends at **5:00 p.m. on October 29, 2018**. You may mail your comments to Selah Planning Department, 222 So. Rushmore Road, Selah, WA 98942, send them by fax to (509) 698-7372 or by e-mail to jeff.peters@selahwa.gov. Reference File Number CL3-2018-001 or "Selah School District #119" in your correspondence.



Open Record Public Hearing The requested applications require both an open record public hearing and recommendation by the City of Selah Planning Commission, as well as a closed record public hearing by the City of Selah city council. Following completion of the of the above identified public comment period and environmental review decision, the City of Selah will issue separate notices for above identified public hearing in accordance with SMC Title 21.

Application information including the SEPA environmental checklist and maps detailing the proposal are available during regular business hours at the Planning Department at 222 South Rushmore Road, Selah, Washington 98942. Contact the Planning Department with project, procedural or environmental questions.

Dated this 12^h day of October 2018.

/s/

Jeff Peters, Community Development Supervisor

DATE: October 12, 2018
TO: Simon Sizer—Yakima-Herald Republic
FROM: Jeff Peters, City Planner
SUBJECT: Notice of Application
PUBLICATION DATE: Monday October 15, 2017

**CITY OF SELAH
NOTICE OF DEVELOPMENT APPLICATION & ENVIRONMENTAL REVIEW
OPPORTUNITY TO PROVIDE COMMENT**

Application: On October 11, 2018, the City of Selah Planning Department received a Class 3 Review, Administrative Adjustment, and State Environmental Checklist application from NAC Architecture and HLA Engineering and Land Surveying Inc. on behalf of the Selah School District #119 to construct a new elementary school, increase the maximum lot coverage of the site from 35% to 38%, and provide environmental review of the proposal in its entirety. The proposed construction constitutes 48,164 sq. ft. of building space with 20 class rooms, a fitness room/caféteria, music room/platform, library, administrative offices, support space play areas, 76 additional off-street parking stalls, and off-street bus and parent drop-off areas located on the subject property of the existing Selah Academy, Early Learning Center and the Selah School District Administration offices.

Project Address: 316 W. Naches Ave., Selah, WA 98942

Tax Parcel Number: 181435-44456.

Zoning District of Subject Property: One-Family Residential (R-1)

File Numbers: SEPA#2018-001, ADJ#-18-006, & CL3#2018-001

The application was determined complete for processing on October 12, 2018. The decision on this application will be made within one-hundred twenty days of the determination of complete application.

Approvals, Actions and Required Studies: Class 3 Use Review & Administrative Adjustment.

Environmental Review: The City of Selah is the lead agency for this proposal under the State Environmental Policy Act (SEPA). The City has reviewed the proposal for probable adverse environmental impacts and expects to issue a Mitigated Determination of Nonsignificance (MDNS). The optional DNS process in WAC 197-11-355 is being used. This may be your only opportunity to comment on the environmental impacts of the proposal. Mitigation measures being considered include requirement of a dust control plan, shielded lighting, and installation of sidewalk and public street improvements. The proposal may include mitigation measures regardless of whether an EIS is prepared. After all comments have been received and considered, a threshold determination will be made without an additional comment period. Comments received by 5:00 PM October 29, 2019, will be considered in making the determination. A copy will be sent to those who comment or may be obtained upon request. The determination will have specific appeal information and may be appealed within five business days of issuance.

Request for Written Comments on the Proposal Written comments concerning the proposed Class 3 Use application and environmental checklist will be accepted during the public comment period that ends at **5:00 p.m., on October 29, 2018**. You may mail your comments to Selah Planning Department, 222 So. Rushmore Road, Selah, WA 98942, send them by fax to (509)



698-7372 or by e-mail to jeff.peters@selahwa.gov. Reference File Number CL3-2018-001 or "Selah School District #119" in your correspondence.

Open Record Public Hearing The requested applications require both an open record public hearing and recommendation by the City of Selah Planning Commission, as well as a closed record public hearing by the City of Selah city council. Following completion of the of the above identified public comment period and environmental review decision, the City of Selah will issue separate notices for above identified public hearing in accordance with SMC Title 21.

Application information including the SEPA environmental checklist and maps detailing the proposal are available during regular business hours at the Planning Department at 222 South Rushmore Road, Selah, Washington 98942. Contact the Planning Department with project, procedural or environmental questions.

Dated this 12^h day of October 2018.

/s/

Jeff Peters, Community Development Supervisor



**CITY OF SELAH
AFFIDAVIT OF MAILING**

**STATE OF WASHINGTON
COUNTY OF YAKIMA**

I, Brandy Tucker, being first duly sworn on oath dispose and says:

I am an employee of the City of Selah, 222 South Rushmore Road, Selah, Washington; that I did on the 15 day of October, 2018 caused to be mailed, 205 envelopes, containing a true and correct copy of the Notice of Application. Said envelopes mailed from Selah, WA. with the correct first class postage and addressed to the persons having made written or verbal comment regarding these files.

A listing of the persons to whom notice has been mailed is contained in file ADJ-18-006, CL3-2018-001 & SEPA-2018-001.

Brandy Tucker
Signed

**STATE OF WASHINGTON
COUNTY OF YAKIMA**

On this day personally appeared before me Brandy Tucker to me known to be the individual referenced herein and who caused to be mailed File ADJ-18-006, CL3-2018-001 & SEPA-2018-001

Given under my hand and official seal this 16th day of October 2018.

Caprise Groo
Signed

Notary Public in and for the State of Washington, residing at Yakima, WA. My term expires June 1, 2021.





CITY OF SELAH

Planning Department

222 South Rushmore Road
Selah, Washington 98942

Phone 509 698-7365

Fax 509 698-7372

December 3, 2018

Selah School District
316 W. Naches Ave.,
Selah, WA 98942

Subject: Review of Submitted Traffic Study and Request for Additional Information

File Number: SEPA-2018-001, ADJ-18-006, & CL#-2018-001

To whom it may concern:

The City of Selah received your submitted Traffic Study for the combined Selah Kindergarten and Selah Primary School on November 19, 2018. As of December 3, 2018, the city has reviewed the study for completeness and adequacy with regard to your State Environmental Policy Act Review (SEPA) Checklist, and is requesting additional information as follows (and discussed with HLA Engineering and Surveying on November 29, 2018):

1. Bus routing both future and present needs to be added and addressed in the traffic study;
2. The mitigation/conclusions and data needs to be separated based upon impact to the city's transportation system as generated from each new school;
3. The study should address current and proposed safe routes to school with pedestrian counts;
4. A road evaluation/pavement index is requested for Third Ave. and all impacted streets where school bus traffic is proposed to be routed; and
5. Clarification is needed in the study for option 1 & 2 with regard to the bus turnaround and number of travel lanes single vs. two.

Therefore, upon receipt of the requested information your application will continue being processed. If you have questions regarding this matter please feel to give me a call at (509) 575-6163.

Sincerely,

Jeff Peters
Community Development Supervisor
City of Selah





CITY OF SELAH

Planning Department

222 South Rushmore Road
Selah, Washington 98942

Phone 509 698-7365

Fax 509 698-7372

**WASHINGTON STATE ENVIRONMENTAL POLICY ACT
MITIGATED DETERMINATION OF NONSIGNIFICANCE
CITY OF SELAH, WASHINGTON
JANUARY 15, 2019**

PROJECT DESCRIPTION: Environmental Review for construction of a new elementary school 48,164 sq. ft. in size with 20 class rooms, fitness room/cafeteria, music room/platform, library, administrative offices, support space play areas, 76 additional off-street parking stalls, and off-street bus and parent drop-off areas located on the subject property of the existing Selah Academy, Early Learning Center and the Selah School District Administration offices.

PROPONENT: Selah School District #119
PROPERTY OWNER: Same as above
LOCATION: 316 W. Naches Ave., Selah, WA 98942
PARCEL NUMBERS: 181435-44456
LEAD AGENCY: City of Selah, Washington
FILE NUMBERS: SEPA#2018-001, ADJ#-18-006, & CL3#2018-001

DETERMINATION: The City of Selah, as lead agency for this proposal, after reviewing a completed environmental checklist and other information on file with the lead agency, has determined that the project will not have a probable significant adverse impact on the environment, and an environmental impact statement (EIS) will not be required under RCW 43.21C.030(2)(c), provided the measures listed below are used to mitigate potential adverse impacts. The information relied upon in reaching this determination is available to the public upon request at the City of Selah Planning Department.

FINDINGS, CONCLUSIONS AND IDENTIFIED ENVIRONMENTAL IMPACTS, AND MITIGATION MEASURES:

This Mitigated Determination of Nonsignificance (MDNS) is hereby conditioned upon the following mitigating measures, as authorized under WAC 197-11-660 and Selah Municipal Code SMC 11.40.400, and the City of Selah Comprehensive Plan, which contains goals, policies, and regulations, which provide substantive authority to require mitigation under the State Environment Policy Act.

FINDINGS:

A. Critical Area:

1. A portion of the subject property lies within the wellhead protection area for the City of Selah's Well #3, and is considered a Critical Aquifer Recharge Area requiring review and approval under the city's Critical Area Ordinance SMC 11.50.110.
2. On October 17, 2018, Deborah L. Johnson of the Washington State Department of Ecology (WSDOE) commented that a portion of the school district expansion



site lies within the wellhead protection area (WHPA) associated with one of the City of Selah's wells, and that no Critical Area Aquifer Recharge Area application was submitted with the SEPA application as required under the City of Selah's Municipal Code (SMC 11.50.110).

3. On January 3, 2019, the applicant submitted a Critical Area Identification application form, and Critical Aquifer Recharge Area Hydrogeological Report performed by Aspect Consulting.
4. The applicant's Critical Aquifer Recharge Area Hydrogeological Report concluded that:
 - a. Approximately 2.4 acres of the proposed project lie within the City's wellhead protection area of the Wixson Wellfield, capturing water from a depth of at least 200 ft. in the Ellensburg aquifer;
 - b. The Ellensburg aquifer near the Project site does not meet the criteria for a CARA as defined by WAC 365-190-030(3) because the land surface around the site does not provide a critical recharging effect to the aquifer, which is primarily recharged up gradient from the project;
 - c. The susceptibility of the Ellensburg aquifer to surface contamination is locally considered to be low. Water infiltrating from ground surface at the project will encounter low permeability layers (100 to 200-foot-thick) within the Upper Ellensburg Formation that overlies the water bearing zones of the Ellensburg aquifer. As a result, much of the water infiltrating at the project will flow easterly away from the Wixson Wellfield, located cross gradient. An upward vertical gradient further limits potential for contamination to the well; and
 - d. Any potential long-or short-term risk to the aquifer from surface contamination will be mitigated by proper application of BMPs consistent with the Eastern Washington Stormwater Manual and recommendations within the report.

B. Transportation:

- On December 20, 2018, the applicants submitted a Transportation Impact Analysis prepared by DN Traffic Consultants, Inc. and HLA Engineering and Land Surveying Inc. for the Selah School District #119 covering the following transportation related activities and impacts of the proposed Lince Kindergarten & John Campbell school sites.
 - a. **Lince Kindergarten School Construction Description:** The proposed Lince Kindergarten School development includes construction of a new 360-student kindergarten facility on the District's existing Lince site. The proposed construction includes a new elementary school 48,164 sq. ft. in size with 20 class rooms, fitness room/cafeteria, music room/platform, library, administrative offices, support space play areas, 76 additional off-street parking stalls, and off-street bus and parent drop-off. The proposed expansion on the site will construct the new building to the south of the existing buildings in the existing vacant field. Additional parking will be provided with reconfigured lots along the east property line adjacent to S. 3rd Street and in a new parking lot on the southeast corner of

the site. Access to the kindergarten facility will be provided by three (3) parking lot entrances on S. 3rd Street. Both the existing parking lots with access on W. Naches Ave. and the existing street parking north of the site and adjacent to W. Naches Ave., serve the existing buildings and will remain. The kindergarten facilities are expected to be complete and occupied in Fall 2020.

- b. **John Campbell Primary School Construction Description:** The Selah Primary School (grades 1-2) will be constructed on the existing John Campbell Primary School site. Proposed construction will remove the existing building structures on the site. The existing school sites serves 810 students whereas the new site is proposed to serve 740 students. Two options for this site are being considered. Option 1, will be reconfigured to include removal of the student drop areas along N. 1st Street. Bus access will be provided via a two-way "Bus Drive" and turn around loop along the northwest side of the site and accessed from N. 1st Street. A new student drop-off will be provided in the southwest corner of the site with access from W. Bartlett Ave. and N. 3rd St. In addition to the student drop off loop, a 130-stall parking lot will be provided at this location. Option 2 will have the bus loop access to and from 3rd St. The primary school facilities are expected to be complete and occupied in 2022.

- **Streets and Intersections Studied:** The Transportation Impact Analysis identifies that analysis was conducted on the transportation-related impacts (street and intersection level of service, pedestrian/safe routes to school, and pavement condition) associated with the following streets and intersections:

Streets:

North/South 1st St.
North/South 3rd St.
West/East Bartlett Ave.
West/East Fremont Ave.
West/East Naches Ave.
Park Ave.

Intersections:

N. 1st St./E Bartlett Ave.
N. 1st St./E Fremont Ave.
N. 1st St./W Naches Ave.
S. 1st St./Park Ave.
N 3rd St./E Fremont St.
N 3rd St./Park Ave.
S. 3rd St./Park Ave.

- **Existing Conditions of Streets:**

- a. **Streets:**

- North/South 1st Street is classified as an Urban Minor Arterial. In the vicinity of Lince school S. 1st St. is a two way, five-lane arterial approximately 54-foot-wide with two lanes in each direction and a center two-way left turn lane. Curbs, gutters, and six (6) foot sidewalks exist on both sides with a five-foot planter strip on the west side. N. 1st Street has the same conditions as above minus the planting strip.
- North/South 3rd Street from W. Fremont Ave. to Fassett Rd. is functionally classified as an Urban Collector while the remaining section of North 3rd St. is classified as a local access street. Generally, N. 3rd St. is a two-lane, two-way street with curbs gutter, and sidewalks in selected locations. S. 3rd St. between W. Naches Ave. and Park Ave. is adjacent to the east side of the Lince school is a two-way, 30-foot-wide roadway with curb gutter, and sidewalk on the west side

of the street. In the vicinity of the John Campbell school, 3rd St. is a two-way, 24-foot roadway with curb and gutter on both sides.

- i. Traffic Control: Includes all-way stops at Pleasant Ave., River Ave., Valley view Ave. Selah Ave. and W. Bartlett. Stop signs are located at the intersections of Fassett Rd., W Naches Ave., and W. Fremont Ave. Additional stop signs are located at the minor street intersections; in general, there is no posted speed limit except for the school "20 MPH When Flashing" sign.
- West/East Bartlett Ave. is not functionally classified, but designated as a Local Access Street. In the vicinity of the John Campbell school, W. Bartlett Ave. is two lanes 30 feet wide with curbs and gutters on both sides and sidewalk on the north side between N, 3rd St. and N. 1st St., with parking on the south side of the street.
 - i. Traffic Control: Includes an all-way stop at N. 3rd Street and stop signs on E. Bartlett at N. Wenas Rd., N 1st St., and N. Rail Rd Ave. There are "School 20 MPH When Flashing" signs posted in both directions of travel in front of the school.
- West/East Fremont Ave. is classified as an Urban Minor Arterial Street, which is generally a two-way, three-lane roadway. In front of both school sites, the street is a three-lane roadway with a single lane in each direction and a center turn lane that has curbs, gutters, and six-foot sidewalks on both sides of the street.
 - i. Traffic Control: includes signals at N. 1st St. and N. Wenas Rd, a pedestrian signal at the Selah Middle School, and all-way stop at Speyers Rd. with stop sign at all minor streets. There is also a "School 20 MPH When Flashing" signs posted on W. Fremont Ave.
- West/East Naches Ave. is functionally classified as an Urban Minor Arterial from Hillcrest Dr. to S. 1st St. and an Urban Major Collector east of S. 1st St. W. Naches Ave. is a two-way roadway with one lane in each direction and designated turn pockets at the intersection of S. 3rd St. The Roadway is approximately 40 to 52 -feet wide with curbs, gutters, and sidewalks on both sides.
 - i. Traffic Control includes signals at S. 1st Street and S. Wenas St.; and stop signs on Hill crest Dr. west of the school and the minor streets west of the school. Additionally, adjacent to the Lince site there is a "School 20 MPH When Flashing" sign, and west of the site a pedestrian activated overhead flashing beacon.
- Park Ave. is classified as an Urban Major Collector between S. 3rd St. and S. 1st St. with a channelized two-way, 24-foot-wide street, with no curb, gutter, or sidewalk. Park Ave. provides a connection between S. 1st St. and S. 3rd St. at the south end of the Lince site.
 - i. Traffic Control includes a traffic signal at S. 1st St. and a stop sign on Park Ave. at S. 3rd St.

- b. **Pavement Evaluation:** On December 20, 2018, the Applicant's Engineer HLA Engineering and Land Surveying Inc. submitted a Pavement Evaluation study for the Lince Kindergarten & Selah Primary School sites. The subject streets covered by the study and resultant pavement indexes are as follows:

3 rd St., Selah Ave. to Naches Ave.	PCR = 55-60
3 rd St., Naches Ave. To Fremont Ave.	PCR = 60-65
3 rd St., Fremont Ave. to Bartlett Ave.	PCR = 45-50
3 rd St, North of Bartlett Ave.	PCR = 75-80
Bartlett Ave., 3 rd St.	PCR = 70-75

Based an analysis of the above pavement indexes and the proposed projects, the Pavement Evaluation Study concludes that:

- i. The asphalt in all analyzed segments is beyond their intended life cycle.
- ii. The roadway segment on 3rd St. from Selah to Naches Ave. has an adequate section to support bus traffic, as there is a lack of alligator cracking. However, as the asphalt is beyond its intended life cycle a 0.25 depth grind and overly is recommended.
- iii. The roadway segment on 3rd Street from Naches Ave. to Fremont Ave. does not have an adequate section to support bus traffic therefore a 0.17 depth grind and 0.30' overlay is recommended. This will result in a 0.30' asphalt over 0.75 of crushed surfacing.
- iv. The roadway segment on 3rd St. from Fremont Ave. to the north termination of 3rd St. (near John Campbell Elementary) does not have an adequate section to support bus traffic. Therefore, a 0.38 asphalt over 0.75' crushed surfacing to match the previous roadway section is recommended. In addition, the subgrade on the west side of the roadway between Fremont Ave. and Bartlett Ave. will need to be inspected as the surface exhibits.
- v. The segment of Bartlett Ave. from 3rd St. to 1st St. has an adequate section to support bus traffic, and no improvements are recommended.

• **Existing and Proposed Intersection Level of Service and Trip Generation:**

- a. **Existing and Proposed Intersection Level of Service:** The applicant's Traffic Impact Analysis identifies that at present all intersections operate at the City of Selah Level of Service (LOS) standard "D" or better for the AM and PM Peak Hours for all intersections with the following exceptions:
 - N. 3rd St. / E. Fremont Ave. identified as LOS "F" for both the AM & PM Peaks.
 - N. 1st St. / E. Bartlett Ave. identified as LOS "E" for the AM Peak, and "D" for the PM Peak.
- b. **Existing Trip Generation:** The Traffic Impact Analysis identifies that the proposed primary school and kindergarten school expansion will add 548 daily trips, 194 AM peak trips, 99 PM school peak and 49 PM street peak hour trips to the city of Selah's street network at project completion. At present, the John Campbell Elementary School is estimated to generate 1,531 daily trips, 543 AM, 275 PM school peak, and 138 PM street peak hour trips.
- c. **Proposed Trip Generation:** Proposed trip generation for the site redevelopment is estimated to generate 1,399 daily, 496, AM, 252 PM school

peak, and 126 PM street peak hour trips. The John Campbell redevelopment will replace the existing elementary school resulting in 70 fewer PM street peak hour trips on the Selah network. As a result, there will be a reduction of 132 daily trips, 47 AM peak hour trips, 24 PM school peak trips, and 12 PM street peak hour trips, and 12 PM peak hour trips on the Selah street network.

The Lince Kindergarten School expansion will occur on the existing Lince Elementary School site. The proposed kindergarten expansion will add 680 daily, 241 AM peak, 122 PM school peak, and 61 PM street peak hour trips.

- **Suggested Traffic Impact Mitigation:** The Selah Primary and Kindergarten School Traffic Analysis suggest the following traffic mitigation based upon the increased trip generation and degraded intersection LOS:
 - a. At the intersection of N. 3rd St. / E. Fremont Ave., a new traffic signal should be installed. The existing and future intersections operates at LOS "F" and will serve both the new Kindergarten and Selah Primary School. In analyzing the submitted traffic, study to determine the School District's proportionate share of this new traffic signal the City of Selah deducted that the existing traffic running through the subject intersection is approximately 1,050 Average Daily Trips (ADT). The combined schools approximate ADT upon the subject intersection is 153, ADT resulting in a 14.57% prorata share contribution towards the cost of the new traffic signal.
 - b. At the intersection of 1st Street / E. Bartlett Ave. the applicant's TIA recommends no improvement as the intersection operates at LOS "E" under all scenarios for the AM Peak counts, and the new John Campbell school lessens the traffic counts at this location.
 - c. The southwest corner of N. 3rd St. / E. Fremont Ave intersection will need to be reconstructed to provide an adequate turning radius to allow bus turns without encroaching on opposing traffic, which is triggered by the construction of the Kindergarten.

- **Safe Routes To School Walking Routes for Lince Elementary & John Campbell Elementary Schools & Bus Routing:**
 - a. The National Center for Safe Routes to School identifies that the Safe Routes to School program aims to make it safer for students to walk and bike to school and encourage more walking and biking where safety is not a barrier. Additionally, the Washington State Office of Superintendent of Public Instruction identifies that its goal for Safe Routes to School Programs is to "improve safety and encourage more students in grades 5–8 to safely walk and bicycle to school. In the process, the programs are working to reduce traffic congestion and improve student health and the environment, increase student academic success, increase attendance, and make communities more livable for everyone."
 - b. On December 21, 2018, Kris Jeske of NAC Architecture submitted the approved Selah School District Walk to School Routes for Lince and John Campbell Elementary Schools (Revision date October 2009), as well as the anticipated bus routes for the school expansions as an addendum to the applicant's traffic study.

- c. Walking Routes for Robert Lince and John Campbell Elementary in the vicinity of the project area are as follows:
- S. 1st St. from E. 10th Ave. to W. Goodlander.
 - W. / E. Naches Ave. from N. Wenas Ave. to N. 4th St.
 - Crusher Canyon Rd. from S. 10th St. to W. Naches Ave.
 - W. / E. Fremont Ave. from 13th St. to N. Wenas Ave.
 - Speyers Rd. from Lynwood Ln to 4th St.
 - W. Goodlander from Goodlander Dr. to S. 1st St.

The Selah school district has identified that as the majority of the students are either bussed or will be dropped off and picked up by parents, the school district is not proposing to change any of the existing walking routes to the two school sites as a result of the proposed construction.

- d. As 3rd St. is designated as a bicycle route and is listed on the City of Selah's Six Year Transportation Plan for improvement with two lanes of traffic, curb, gutter, sidewalk on both sides of the street, and a bicycle lane, the school district should consider revising its walking route for Robert Lince Elementary school to include 3rd St. and Park Ave. The present safe walking route for Lince brings kids down S. 1st St. past the elementary school to Naches Ave. to enter the campus and does not sufficiently serve the surrounding residential neighborhood to the east and west of the kindergarten. Furthermore, as sidewalk exists on the west side of 3rd St. in front of the school and a portion of Park Ave. in front of the Selah Civic Center creating a more logical safe route, the city is requiring the school district to complete the sidewalk on the south side of W. Park Ave. to S. 3rd St. with a required crosswalk and flashing beacons.
- e. As W. Fremont is designated a safe route to school, the school district shall also be required to add flashing school zone beacons both directions approaching 3rd St. on W. Fremont Ave.
- f. Proposed Bus Routes for the 28 bus trips per day for Robert Lince, John Campbell Elementary Schools, and transfers between schools in the vicinity of the project area are as follows:
- S. 3rd St.
 - W. / E. Naches Ave.
 - Fremont Ave.
 - Speyers Ave.
 - N. / S. 1st St.

C. Right-of-way Acquisition for John Campbell Elementary:

The Selah School district has identified in their preliminary John Campbell Elementary plan that they intend to remove the school bus parking on S. 1st St., and replace the existing fencing and bus parking with open space. The subject property has been dedicated to the City of Selah as right-of-way, therefore in accordance with RCW 35.75 the school district will be required to submit and undergo a Right-of-way Vacation application and compensate the City for the acquisition of the right of way in accordance with state law.

D. Comprehensive Plan Compliance:

Goals and polices of the City's Comprehensive Plan, which are applicable and are met by this development are as follows:

- Goal 2.2: Development within natural drainage basins.
- Policy 2: Encourage development to areas where infrastructure (water, sewer, stormwater, and streets) is either present, can be easily extended, or is planned to be extended.
- Goal 2.3: Provide for the protection of significant natural features and the public health through land use policies.
- Policy 1: Provide for the protection of wellheads and springs from land uses that present a threat to surface and groundwater quality. Aquifer recharge areas shall be subject to scrutiny and intergovernmental efforts to control potential threats to aquifer contamination.
- Goal 3.1: Develop an efficient transportation system that supports the community vision.
- Objective 3.1.1.1: Provide a safe and efficient transportation network within the City of Selah.
- Policy 1: Street and highways should be located and designed to meet the demands of both existing and projected land uses as provided for in the Selah Comprehensive Plan.
- Policy 2: Street and highway improvements should be located and designed to respect the residential character of the community and its quality living environment.
- Policy 10: Ensure mobility for all residents, including the elderly and persons with disabilities, by providing accessible transportation services. 2. Apply street and sidewalk design standards and develop a system that responds to the needs of persons who are elderly, disabled or have other special needs.
- Objective 2.1.3: Improve pedestrian safety and circulation within the City of Selah's UGA.
- Policy 1: Require sidewalks on one side of all local streets and both sides of all collectors and arterials.
- Policy 2: Safe and efficient movement of bicycle and pedestrian traffic through Selah, especially in school and recreational areas, in the business district and points of congestion should be provided.
- Policy 4: As part of the pedestrian network, provide crosswalks at key locations such as Downtown, intersections of City arterials, the local street network near schools, and other locations with significant pedestrian volumes.
- Goal 3.4: To ensure that transportation facilities and services needed to support development are available concurrent with the impacts of such development. Concurrency protects investments in existing transportation facilities and services, maximizes the use of these facilities and services, and promotes orderly compact growth.
- Policy 1: The City shall not issue development permits where the project requires transportation improvements that the City is not able to provide in accordance with adopted LOS standards, unless the developer either provides the necessary improvements, or provides acceptable strategies to mitigate the impacts of development.
- Policy 3: Accommodate design and improvements to Selah's transportation system based on both existing conditions and projected growth.
- Policy 4: Allow new development only when and where all transportation facilities are adequate at the time of development, or unless a financial commitment is in place to

complete the necessary improvement or strategies which will accommodate the impacts within six years; and only when and where such development can be adequately served by transportation facilities without reducing LOS elsewhere.

- Policy 6: "Require developers to construct streets directly serving new development, and pay a fair-share for specific off-site improvements needed to mitigate the impacts of development..."
- Goal 3.5: To manage, conserve and protect Selah's natural resources through a balance of development activities complemented with sound environmental practices.
- Policy 2: Promote the use and development of routes and methods of alternative modes of transportation, such as transit, bicycling and walking, which reduce Selah's consumption of non-renewable energy sources.

CONCLUSIONS:

1. Site-specific impacts for construction of buildings, installation of utilities, dust control, and stormwater facilities are sufficiently addressed and/or mitigated through the implementation of the City of Selah's development standards.
2. The applicant's submitted traffic study addresses all identified traffic impacts to the surrounding City and County street systems. Provided all mitigation identified and required, as a condition of approval of the MNDS is completed, no adverse environmental impacts will result from approval of the proposed school construction.
3. The subject development and proposed mitigation is well supported by the City of Selah's Comprehensive Plan through the application and compliance of twenty individual goals, objectives, and policies.
4. As the applicant did not submit the Critical Area CARA application at the same time as the SEPA application, the Selah, School District will not be able to start construction on either school until such time as the City completes the required Critical Area Review and approval. Additionally, the school district shall incorporate all required conditions of approval into its construction documents, which shall be reviewed by the city prior to building permit issuance.

REQUIRED MITIGATION MEASURES

1. All site-specific impacts for construction of buildings, installation of utilities, dust control, and stormwater facilities are sufficiently addressed and/or mitigated through the implementation of the City of Selah's development standards. Compliance with all development standards are either required as a condition of approval as a part of the applicant's Class (3) zoning and/or building permit approval.
2. As the applicant's consultant did not submit the Critical Area CARA application at the same time as the SEPA application, the Selah, School District will not be able to start construction on either school until such time as the City completes the required Critical Area review and approval. Additionally, the school district shall

incorporate all required conditions of approval into its construction documents, which shall be reviewed by the city prior to building permit issuance.

3. As the existing and future intersection of N. 3rd St. / W. Fremont Ave., is identified to operate at LOS "F" and will serve both the new Kindergarten and Selah Primary School. The school district shall be responsible for its 14.57% proportionate share of the new traffic signal (approximate total costs of intersection/traffic signal \$713,300.00: school proportionate share \$103,927.81).
4. As the new and increased bus traffic through this intersection will interfere with the opposing traffic the school district shall be fully responsible for reconstructing the intersection prior to operation of the new Kindergarten (approximate total costs of SW Radius Improvement – 3rd St. and Fremont \$75,560.00). This mitigating condition shall only be required in the event that the school district changes their bus routing, busses are observed regularly using this route, or unidentified impacts to the City's street system are discovered following construction of John Campbell, which necessitate routing school traffic (busses or other school traffic) through this section of roadway.
5. As the applicant's pavement evaluation study indicated that, the roadway segment on 3rd St. from Selah Ave. to Naches Ave. was identified as being beyond its intended life cycle, the City is requiring a 0.25 depth grind and overlay to mitigate and support the increased bus traffic to the subject road section (approximate costs \$159,400.00).
6. As the applicant's pavement evaluation study indicated that, the roadway segment on 3rd Street from Naches Ave. to Fremont Ave. does not have an adequate section to support bus traffic the City of Selah is requiring a 0.17 depth grind and 0.30' overlay. This will result in a 0.30' asphalt over 0.75' of crushed surfacing to mitigate and support the increased bus traffic to the subject road section (approximate costs \$109,320.00). This mitigating condition shall only be required in the event that the school district changes their bus routing, busses are observed regularly using this route, or unidentified impacts to the City's street system are discovered following construction of John Campbell, which necessitate routing school traffic (busses or other school traffic) through this section of roadway.
7. This mitigating condition is required with the choice of Option 2, the school district changes their bus routing, busses are observed regularly using this route, or unidentified impacts to the City's street system are discovered following construction of John Campbell, which necessitate routing school traffic (busses or other school traffic) through this section of roadway. As the applicant's pavement evaluation study indicated that, the roadway segment on 3rd St. from Fremont Ave. to the north termination of 3rd St. (near John Campbell Elementary) does not have an adequate section to support bus traffic. Therefore, the City of Selah is requiring a 0.38 asphalt over 0.75' crushed surfacing to match the previous roadway section. Additionally, the City of Selah is requiring that the subgrade on the west side of the roadway between Fremont

- Ave. and Bartlett Ave. be inspected as the surface exhibits alligator cracking, which may require additional mitigation.
8. As S. 3rd St. is designated as an Urban Collector road, in accordance with City of Selah's Comprehensive Plan the school district is required to reconstruct the east half of S. 3rd St. with curb, gutter, and sidewalk in accordance with the above-identified goals, objectives, and policies the City's Comprehensive Plan (approximate costs \$159,400.00 Grind and Overlay & \$251,180.00 widening and stormwater = \$410,580.00).
 9. As sidewalk exists on the west side of 3rd St. in front of Lince Elementary School and a portion of Park Ave. in front of the Selah Civic Center the city is requiring the school district to complete the sidewalk on the south side of W. Park Ave. to S. 3rd St. with a required crosswalk (approximate costs \$159,400.00).
 10. Flashing beacons are required at the following locations:
 - a. Fremont Ave./ west of First St. (north side of the street);
 - b. Fremont Ave./ N. 4th St. (south side of the street);
 - c. Naches Ave./ S. 3rd St. (southwest corner of intersection); and
 - d. Selah Ave./ S. 3rd St. (northeast corner of intersection);
 11. Stripped crosswalks area required at the following intersections:
 - a. Park Ave./ S. 3rd Ave. (north and south across Park Ave. and east and west across S. 3d St. at the north side of Park Ave);
 - b. Yakima Ave./ S. 3rd St. (east and west across S. 3rd St.); and
 - c. Naches Ave. / S. 3d St. (east and west across S. 3rd St. on the south side of Naches Ave.).
 12. Pedestrian activated crossing beacons or school crossing guards are required at the following intersections:
 - a. Park Ave./ S. 3rd St.;
 - b. Yakima Ave./ S. 3rd St.; and
 - c. Naches Ave./ S. 3rd St.
 13. The school district shall also be responsible for all school signage changes required by the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD).
 14. Frontage improvements for the John Campbell Elementary School will be addressed at the time of environmental review for the subject campus.
 15. Prior to issuance of any permits for the subject development, the applicant shall obtain a NPDES stormwater permit for the proposed development from the WSDOE and provide the City of Selah a copy of said permit.

CONTACT PERSON: Contact Jeff Peters, Community Development Supervisor Planner (509) 698-7367 for more information.

There is no comment period for this MDNS

This MDNS is issued under WAC 197-11-355. There is no further comment period on the MDNS.

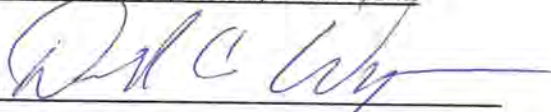
Responsible official: Donald C. Wayman

Position/Title: SEPA Responsible Official

Address: City of Selah, 115 W. Naches Avenue, Selah, WA. 98942

Date January 15, 2019

Signature



Appeals: You may appeal this determination to the Selah City Council by filing a written appeal with the required \$300.00 filing fee at the Selah Planning Department, 222 S. Rushmore Road no later than 5:00 p.m. on January 21, 2019. You should be prepared to make specific factual objections. Contact the Planning Department at 698-7365 to read or ask about the procedures for SEPA appeals.




CITY OF SELAH
AFFIDAVIT OF MAILING

STATE OF WASHINGTON
COUNTY OF YAKIMA

I, Brandy Tucker, being first duly sworn on oath dispose and says:

I am an employee of the City of Selah, 222 South Rushmore Road, Selah, Washington; that I did on the 15 day of January, 2019 caused to be mailed, 134 envelopes, containing a true and correct copy of the Washington SEPA Mitigated Determination of Nonsignificance. Said envelopes mailed from Selah, WA. with the correct first class postage and addressed to the persons having made written or verbal comment regarding these files.

A listing of the persons to whom notice has been mailed is contained in file SEPA-2018-001, ADJ-20018-006 & CL3-2018-001.

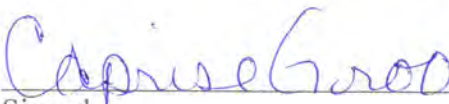


Signed

STATE OF WASHINGTON
COUNTY OF YAKIMA

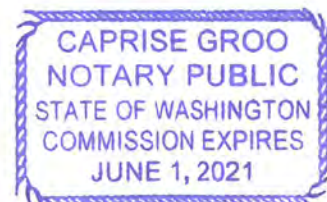
On this day personally appeared before me Brandy Tucker to me known to be the individual referenced herein and who caused to be mailed SEPA-2018-001, ADJ-2018-006 & CL3-2018-001

Given under my hand and official seal this 15th day of January 2019.



Signed

Notary Public in and for the State of Washington, residing at Yakima, WA. My term expires June 1, 2021.





CITY OF SELAH

Planning Department • 222 South Rushmore RD. • Selah, WA 98942 • Ph: (509) 698-7365 •
www.selahwa.gov

CITY OF SELAH RENOTICE OF DEVELOPMENT APPLICATION, OPPORTUNITY TO PROVIDE COMMENT, & NOTICE OF PUBLIC HEARING

Application: On October 11, 2018, the City of Selah Planning Department received a Class 3 Review, Administrative Adjustment, and State Environmental Checklist application from NAC Architecture and HLA Engineering and Land Surveying Inc. on behalf of the Selah School District #119 to construct a new elementary school, increase the maximum lot coverage of the site from 35% to 38%, and provide environmental review of the proposal in its entirety. The proposed construction constitutes 48,164 sq. ft. of building space with 20 class rooms, a fitness room/cafeteria, music room/platform, library, administrative offices, support space play areas, 76 additional off-street parking stalls, and off-street bus and parent drop-off areas located on the subject property of the existing Selah Academy, Early Learning Center and the Selah School District Administration offices.

Renotice of Application: *As a result of comments received during the environmental review process that a portion of the school district property lies within a Critical Aqua Recharge Area (CARA) for one of the City's wells, the applicant submitted the required Critical Area Critical Aqua Recharge Area (CARA) application on January 4, 2019, as required by SMC 11.50.110. Submittal of these new application materials therefore requires additional opportunity for the public to comment on the content of the application in accordance with SMC 11.50. & 21.07.*

Project Address: 316 W. Naches Ave., Selah, WA 98942

Tax Parcel Number: 181435-44456

Zoning District of Subject Property: One-Family Residential (R-1)

File Numbers: SEPA#2018-001, ADJ#-18-006, CL3#2018-001, & CAO-2019-001

The revised applications were determined complete for processing on January 9, 2019. The decision on these applications will be made within one-hundred twenty days of the determination of complete application.

Approvals, Actions and Required Studies: Class 3 Use Review, Administrative Adjustment, & Critical Area Applications.

Environmental Review: The City of Selah is the lead agency for this proposal under the State Environmental Policy Act (SEPA). The City has reviewed the proposal for probable adverse environmental impacts and issued a Mitigated Determination of Nonsignificance (MDNS) on the proposal on January 15, 2019. The appeal period for this environmental decision lapsed on January 21, 2019, with no appeals filed.

Request for Written Comments on the Revised Proposal/Applications: Written comments concerning the revised Class 3 Review, Administrative Adjustment, and Critical Area applications will be accepted during the public comment period that ends at **5:00 p.m. on February 11, 2019**. You may mail your comments to Selah Planning Department, 222 So. Rushmore Road, Selah, WA 98942, send them by fax to (509) 698-7372 or by e-mail to





**CITY OF SELAH
AFFIDAVIT OF MAILING**

**STATE OF WASHINGTON
COUNTY OF YAKIMA**

I, Brandy Tucker, being first duly sworn on oath dispose and says:

I am an employee of the City of Selah, 222 South Rushmore Road, Selah, Washington; that I did on the 22 day of January, 2019 caused to be mailed, 168 envelopes, containing a true and correct copy of the Renotice of Development. Said envelopes mailed from Selah, WA. with the correct first class postage and addressed to the persons having made written or verbal comment regarding these files.

A listing of the persons to whom notice has been mailed is contained in file SEPA#2018-001, ADJ#-18-006, CL3#2018-001, & CAO-2019-001

Signed

**STATE OF WASHINGTON
COUNTY OF YAKIMA**

On this day personally appeared before me Brandy Tucker to me known to be the individual referenced herein and who caused to be mailed SEPA#2018-001, Adj#18-006, CL3#2018-001 & CAO-2019-001

Given under my hand and official seal this 22nd day of January 2019.

Signed

Notary Public in and for the State of Washington, residing at Yakima, WA. My term expires June 1, 2021.





CITY OF SELAH

Planning Department • 222 South Rushmore RD. • Selah, WA 98942 • Ph: (509) 698-7365 •
www.selahwa.gov

CITY OF SELAH NOTICE OF AVAILABILITY OF PUBLIC HEARING STAFF REPORT

Application: Class 3 Review, Administrative Adjustment, and State Environmental Checklist application from NAC Architecture and HLA Engineering and Land Surveying Inc. on behalf of the Selah School District #119 to construct a new elementary school, located at the Lince Campus.

Project Address: 316 W. Naches Ave., Selah, WA 98942

Tax Parcel Number: 181435-44456.

Zoning District of Subject Property: One-Family Residential (R-1)

File Numbers: SEPA#2018-001, ADJ#-18-006, & CL3#2018-001

AVAILABILITY OF STAFF REPORT; The Staff Report for Lince Elementary School Expansion is available on the City of Selah's website at: <https://selahwa.gov/planning/wp-content/uploads/sites/10/2019/02/Staff-report-PC.pdf>, hardcopies available upon request from the City of Selah Planning Department, 222 S Rushmore Road, Selah, WA 98942 (509) 698-7365 or email your request to: brandy.atkins@selahwa.gov.



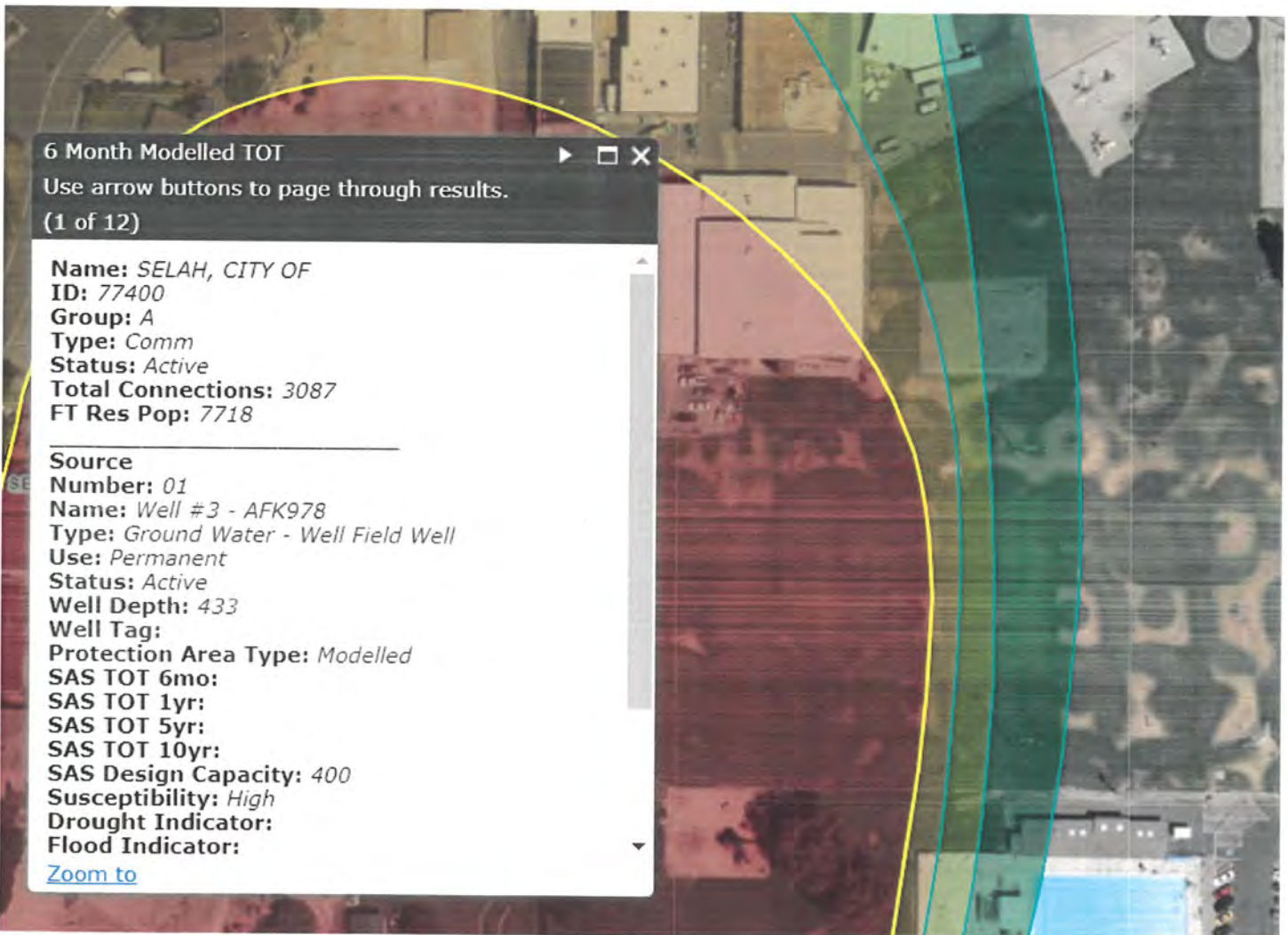
From: Johnson, Deborah L (DOH) <deborah.johnson@doh.wa.gov>
Sent: Wednesday, October 17, 2018 5:21 PM
To: Peters, Jeff
Cc: Jones, Ty; Cervantes, Andres (DOH); Gardipe, Jamie C (DOH)
Subject: Comments - New Selah School District elementary school, SEPA#2018-001, ADJ# 18-006, CL3#2018-001, SEPA #201805767

OCT 18 2018
 By *MA*
 City of Selah
 Planning Dept.

Hello,

Thank you for the opportunity to review and comment upon the NOA/ODNS for the proposed Selah School District elementary school, which is an expansion upon an existing, developed district property. We have the following comments:

Critical Areas. At least a portion of the school expansion site lies within the wellhead protection area (WHPA) associated with one of City of Selah’s wells. This WHPA has been modeled, & in comparing the site plan to our map (below), it appears that the development envelope probably crosses at least a couple of the “time of travel” areas within the WHPA. As such, this development should be subject to SMC 11.50.110 Critical Aquifer Recharge Areas.



Map source: <https://fortress.wa.gov/doh/eh/maps/SWAP/index.html>





STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

1250 W Alder St • Union Gap, WA 98903-0009 • (509) 575-2490

October 24, 2018

OCT 24 2018
BT
City of Selah
Planning Dept.

Jeff Peters
Community Development
City of Selah
222 S. Rushmore Road
Selah, WA 98942

Re: SEPA#2018-001, ADJ#-18-006, CL3#2018-001

Dear Jeff Peters:

Thank you for the opportunity to comment during the optional determination of nonsignificance process for the construction a new elementary school, proposed by Selah School District. We have reviewed the documents and have the following comments.

TOXICS CLEAN-UP

Based upon the historical agricultural use of this land, there is a possibility the soil contains residual concentrations of pesticides. Ecology recommends that the soils be sampled and analyzed for lead and arsenic, and for organochlorine pesticides. If these contaminants are found at concentrations above the Model Toxics Control Act cleanup levels Ecology recommends that potential buyers be notified of their occurrence.

If you have any questions or would like to respond to these Toxics Clean-up comments, please contact **Valerie Bound** at (509) 454-7886 or email at valerie.bound@ecy.wa.gov.

WATER QUALITY

Project with Potential to Discharge Off-Site

If your project anticipates disturbing ground with the potential for stormwater discharge off-site, the NPDES Construction Stormwater General Permit is recommended. This permit requires that the SEPA checklist fully disclose anticipated activities including building, road construction and utility placements. Obtaining a permit may take 38-60 days.

The permit requires that a Stormwater Pollution Prevention Plan (Erosion Sediment Control Plan) shall be prepared and implemented for all permitted construction sites. These control measures must be able to prevent soil from being carried into surface water and storm drains by



Peters, Jeff

From: Dick Graf <dick@grafinv.com>
Sent: Sunday, October 28, 2018 2:28 PM
To: Peters, Jeff
Subject: SEPA#2018-001 Parcel #: 181435-44456

Hi Jeff,

Just wanted to express concern about the existing roadway and sidewalk system along 3rd Street for the proposed project. I think the City should investigate the existing condition of these items along with adding a new sidewalk on the East side of Third street and perhaps intersection improvements to accommodate increased use and bus usage.

Dick Graf, CPM

410 S 1st Street

Selah, WA 98942

509.697.4874



Landscape and Lighting Plans for Lince Elementary School




Lince Kindergarten
January 23, 2019

Mr. Jeff Peters,

The proposed Lince Kindergarten will comply with all sections of Selah Municipal Code, including ordinances 10.34.070, 10.34.080, 10.34.090. See responses to SMC requirements noted below in red:

Received

JAN 23 2019

By 
City of Selah
Planning Dept.

SMC 10.34.070 Maintenance:

Every lot or parcel of land improved to provide a public or private parking area having a capacity of two or more vehicles shall meet the following specifications:

(1) *Surfacing.* New off-street parking areas shall be paved with two inch-thick asphalt surfacing on aggregate base or equivalent surfacing acceptable to the city so as to eliminate dust or mud, and shall be graded and drained to a plan acceptable to the city. Grading and drainage facilities shall be arranged so that no water drains across sidewalks.

- Off-street parking surfaces will be 3" thick asphalt per geotechnical recommendations

(2) *Border Barricades and Screening.*

(A) Any parking areas that are not separated by a fence from any street property line upon which it abuts shall be provided with a suitable concrete curb or timber barrier not less than six inches in height and located not less than two feet from the street property line. Such curb or barrier shall be securely installed and maintained; provided, no such curb or barrier shall be required across any driveway or entrance to the parking area.

- 6" curb is specified

(B) Every parking area abutting property located in any residential zone shall be separated from such property by a solid masonry wall or wood fence, which wall or fence shall be four to six feet in height; provided, that along the required front yard the wall shall not exceed two feet in height. No such wall need be provided where the elevation of that portion of the parking area immediately adjacent to a residential zone is six feet or more below the elevation of such residentially zoned property along the common property line.

- NA

(3) *Driveway Surfacing.* All public or private driveways shall be surfaced for a minimum distance of twenty-five feet back from the street or curb to a minimum width of twenty feet at the curb and constructed in accordance with the specifications established in subsection (1) of this section. (Ord. 1634 § 133, 2004.)

- Meets requirement



January 23, 2019

2 of 2

SMC 10.34.080 Required Landscaping of Parking Areas:

(a) In parking lots of ten or more spaces, a minimum of four percent of the total parking lot area shall be landscaped. On premises used for an industrial use category, as specified in Chapter 10.28 of this title, the landscaping required by this section shall apply only to those parking areas, which abut on a public right-of-way.

- A minimum of 4% of parking areas will be landscaped

(b) No required planting area shall be less than twenty-four square feet in area with the exception of raised planter boxes around or in close proximity to buildings.

- Meets requirement

(c) One tree shall be installed for every fifteen single-row parking stalls or every thirty double-row parking stalls within the parking lot.

- Complies, see attached landscape plan

(d) Landscaping shall consist of combinations of trees, shrubs and ground cover with careful consideration to eventual size and spread, susceptibility to disease and pests, durability and adaptability to existing soil and climatic conditions.

- Complies, see attached landscape plan

(e) Shrubs and trees in the landscaping shall be maintained in a healthy growing condition. (Ord. 1634 § 134, 2004.)

- Landscaping will be maintained by Selah School District

SMC 10.34.090 Lighting:

Lighting, if provided, shall be indirect, hooded and arranged to reflect away from adjoining properties and streets. (Ord. 1634 § 135, 2004.)

- Lighting will comply and will be specified with glare shields if required near property line, see attached electrical site plan and fixture cut sheets.

If additional information is required, please contact me at your earliest convenience.

Sincerely,



Kris Jeske
(509) 838-8240
kjeske@nacarchitecture.com



TYPE: _____ QUANTITY: _____ PROJECT: _____

CATALOG NUMBER: _____

FIXTURE	WATTAGE	VOLTAGE	FINISH	OPTION	OPTION	OPTION	OPTION
---------	---------	---------	--------	--------	--------	--------	--------



- 1- Cast aluminum LED heat sink.
- 2- Optical system assembly.
- 3- Set of two cast aluminum supporting struts.
- 4- Removable cast aluminum cover for easy access to electrical components and driver.
- 5- LED driver housing.
- 6- Lower cast aluminum housing to fit with 4" (102) or 5" (127) ,D pole. 6" (152) O.D available on request.
- 7- 30" Diameter hard aluminum shade (MA21 only).

MA20



MA21



MATERIALS

MayaLED is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%. COB LED is assembled on a thick pad housing chamber designed with a heat sink pattern to optimize heat dissipation and luminaire efficacy. The power supply is enclosed in an isolated chamber allowing a quick access for electrical maintenance without disturbing the optical light chamber. COB LED is removable and replaceable for ease of maintenance or lighting upgrade.

ELECTRICAL

LED

POWER SUPPLY Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -30°C/-22°F to 60°C/140°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery.

LED

Type II, III, IV or V light distribution via high performance optical lenses. Standard 4000K/80CRI, Optional 2700K, 3000K, 3500K and 5000K.

LIFE

125,000hrs (L₇₀B₅₀) based on LM-80 report for lumen maintenance.

FINISH

Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

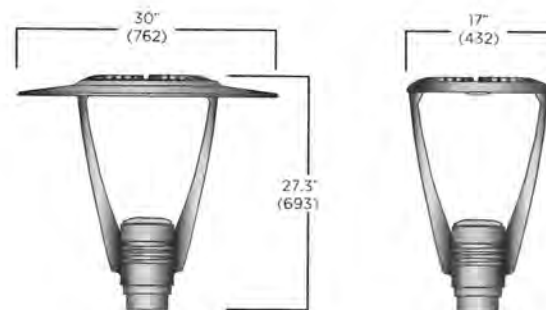
MOUNTING

Maximum weight: 26lbs (12kg)

MayaLED is designed for ease of access and installation. Designed for wall or pole mount to fit with a 4" (102) or 5" (127) pole. 6" (152) available on request. Alternate poles or wall attachments are available to meet multiple installation conditions. (Refer to page 3)

CERTIFICATION

Tested to UL1598 and CSA22.2 #250. ETL listed for wet location. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C/77°F. Lumen depreciation in accordance with IESNA LM80 standards. CE Certification on request. Rated IP66.





MA21
Luminaire with
shade.
EPA: 1.10

MA20
Luminaire
less shade.
EPA: 0.93

MA20/MA21 SERIES

MAYA - LED

LUMINAIRE SELECTION

MODEL#	LED LIGHT SELECTION (4000K/80CRI)		MODEL		VOLTAGE ¹	FINISH	
	INPUT WATTS	DELIVERED LUMENS				STANDARD COLORS	
 <input type="checkbox"/> MA20	Type II	34W	4170	<input type="checkbox"/> MA20-L1W30r1-R2	<input type="checkbox"/> MA21-L1W30r1-R2	<input type="checkbox"/> 120V <input type="checkbox"/> 277V Optional <input type="checkbox"/> 347V <input type="checkbox"/> 480V	<input type="checkbox"/> WHT Snow white <input type="checkbox"/> BKT Jet black <input type="checkbox"/> BZT Bronze <input type="checkbox"/> MST Matte silver <input type="checkbox"/> GRT Titanium gray <input type="checkbox"/> DGT Gun metal <input type="checkbox"/> CHT Champagne <input type="checkbox"/> SGT Steel Gray
		69W	7994	<input type="checkbox"/> MA20-L2W30r1-R2	<input type="checkbox"/> MA21-L2W30r1-R2		
		112W	11029	<input type="checkbox"/> MA20-L3W30r1-R2	<input type="checkbox"/> MA21-L3W30r1-R2		
		138W	13284	<input type="checkbox"/> MA20-L3W46r0-R2	<input type="checkbox"/> MA21-L3W46r0-R2		
 <input type="checkbox"/> MA21	Type III	38W	4395	<input type="checkbox"/> MA20-L1W30r1-R3	<input type="checkbox"/> MA21-L1W30r1-R3	<input type="checkbox"/> CS Custom color <input type="checkbox"/> RAL RAL# color (Refer to color chart)	
		76W	8697	<input type="checkbox"/> MA20-L2W30r1-R3	<input type="checkbox"/> MA21-L2W30r1-R3		
		111W	11177	<input type="checkbox"/> MA20-L3W30r1-R3	<input type="checkbox"/> MA21-L3W30r1-R3		
		135W	12697	<input type="checkbox"/> MA20-L3W46r0-R3	<input type="checkbox"/> MA21-L3W46r0-R3		
	Type IV	38W	4493	<input type="checkbox"/> MA20-L1W30r1-R4	<input type="checkbox"/> MA21-L1W30r1-R4		
		75W	8482	<input type="checkbox"/> MA20-L2W30r1-R4	<input type="checkbox"/> MA21-L2W30r1-R4		
		111W	11105	<input type="checkbox"/> MA20-L3W30r1-R4	<input type="checkbox"/> MA21-L3W30r1-R4		
		135W	12378	<input type="checkbox"/> MA20-L3W46r0-R4	<input type="checkbox"/> MA21-L3W46r0-R4		
	Type V	36W	4243	<input type="checkbox"/> MA20-L1W30r1-R5	<input type="checkbox"/> MA21-L1W30r1-R5		
		69W	7937	<input type="checkbox"/> MA20-L2W30r1-R5	<input type="checkbox"/> MA21-L2W30r1-R5		
		113W	11274	<input type="checkbox"/> MA20-L3W30r1-R5	<input type="checkbox"/> MA21-L3W30r1-R5		
		139W	12639	<input type="checkbox"/> MA20-L3W46r0-R5	<input type="checkbox"/> MA21-L3W46r0-R5		

AMBER LED LIGHT SELECTION

INPUT WATTS	DELIVERED LUMENS	MODEL	
17W	388	<input type="checkbox"/> MA20-L1W18K2A	<input type="checkbox"/> MA21-L1W18K2A
34W	776	<input type="checkbox"/> MA20-L2W18K2A	<input type="checkbox"/> MA21-L2W18K2A
51W	1164	<input type="checkbox"/> MA20-L3W18K2A	<input type="checkbox"/> MA21-L3W18K2A

NOTE: Above wattage values are based on 277V, tested at 25°C/ 77°F ambient temperature.
Wattage may vary by approx. +/- 10% for other voltages, or due to changes in ambient temperature.
Lumen output will remain constant.

OPTIONS

ELECTRICAL

- PH Photocell²
- FS Fuse²
- SP Surge protector 10KV

ACCESSORIES

- BLC Back light control³

MOUNTING

- AC8 Pole mount attachment with 45° support
- 2AC8 Double pole mount attachment with 45° support at 180°
- ACW Wall mount attachment with 45° support
- EC8P Pole mount attachment with stacked arm
- 2EC8P Double pole mount attachment with stacked arms at 180°
- EC8PS Pole mount attachment with short stacked arm (MA20 only)
- 2EC8PS Double pole mount attachment with short stacked arms at 180° (MA20 only)
- ECBW Wall mount attachment with stacked arm
- EC8WS Wall mount attachment with short stacked arm (MA20 only)
- TN3 3" Tenon pole adaptor⁴
- PR8 Pedestal mount adaptor

LIGHT

Alternate CCT °K LED (LCF: Lumen conversion factor)

- K27 2700K CCT 80 CRI (LCF: 0.91)
- K3 3000K CCT 80 CRI (LCF: 0.94)
- K35 3500K CCT 80 CRI (LCF: 0.983)
- K5 5000K CCT 80 CRI (LCF: 1.01)

NOTE: Other CCT & higher CRI available, please consult factory.

NOTES

- 1- If no voltage is specified, luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
- 2- Fuse and photocell options are normally installed with poles when specified with Luminis luminaires. (Except for other types of mounting.)
- 3- BLC: Back Light Control - Type II Distribution.
- 4- 3" tenon pole adaptor only required for 3" O.D. poles by others.

LUMINIS®

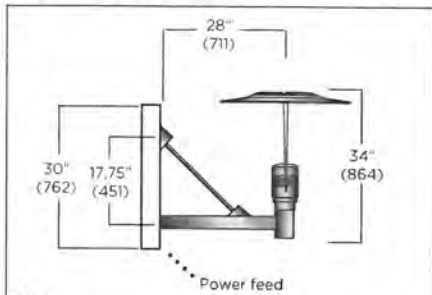
LUMINIS | Toll free: 866.586.4647 Fax: 514.683.8872 Email: info@luminis.com
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

LUMINIS.COM

Luminaires may be altered for design improvement or discontinued without prior notice.

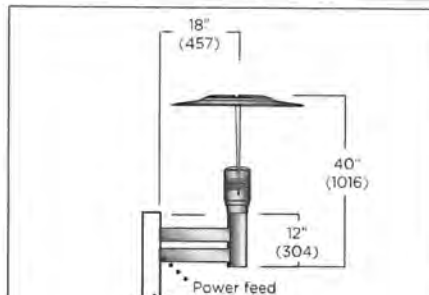
MA20/MA21 SERIES MAYA - LED

POLE MOUNT



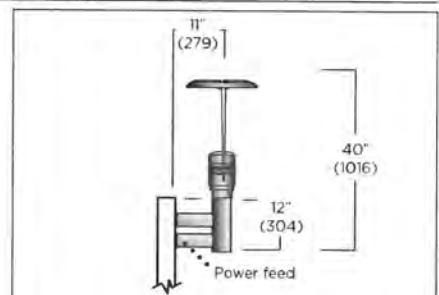
ACB

1" X 3" (25X76) extruded aluminum extended arm pole mounting adaptor designed to fit with 4 to 5" dia. poles, 1/2" dia. X 45° standard natural stainless steel rod support. (EPA: 0.7)



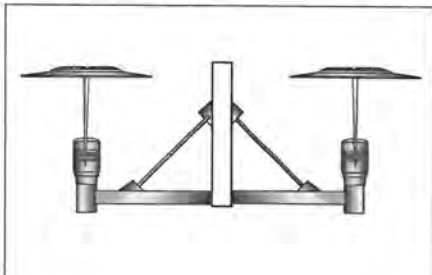
EC8P (Applicable for MA20 and MA21)

Set of (2) 1" X 3" (25X76) extruded aluminum side pole straight mounting. Pole mounting adaptor fits with 4 to 5" dia. poles. (EPA: 0.97)



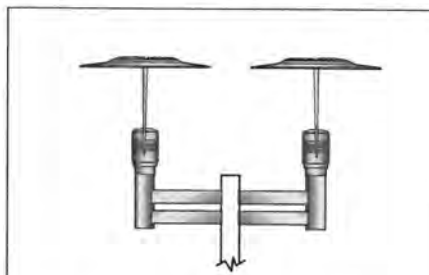
EC8PS (Applicable for MA20 only)

Set of (2) 1" X 3" (25X76) extruded aluminum side pole straight mounting. Pole mounting adaptor fits with 4 to 5" dia. poles. (EPA: 0.72)



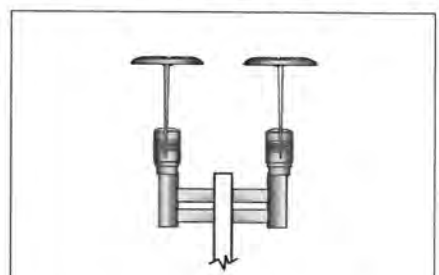
2AC8

Double pole mount attachment with 45° support at 180°



2EC8P (Applicable for MA20 and MA21)

Double pole mount attachment with stacked arms at 180°



2EC8PS (Applicable for MA20 only)

Double pole mount attachment with short stacked arms at 180°

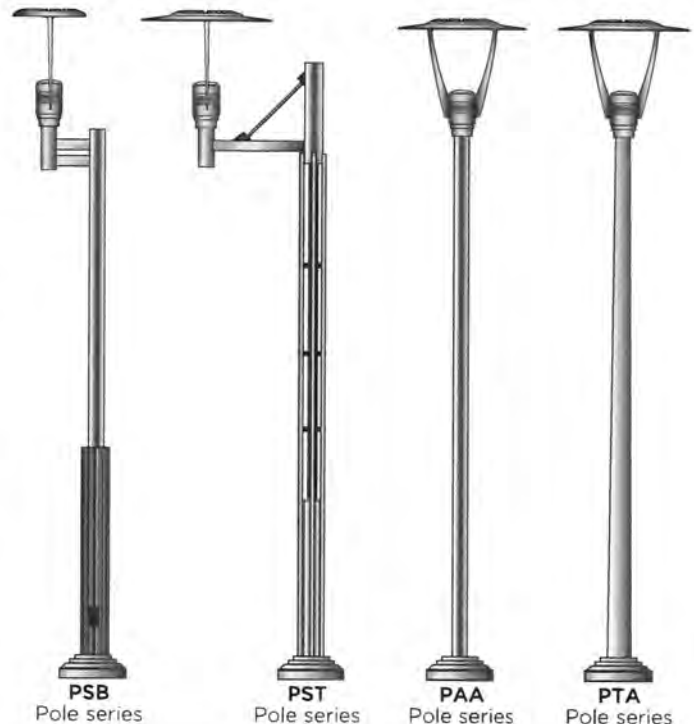
NOTE: PST Pole with ACB or 2AC8 attachment requires a 30" (762) tenon extension over pole nominal height. EC8P, 2EC8P, EC8PS and 2EC8PS require an 18" tenon extension. Factory Installed.

MATCHING POLE SELECTION

Ø 4"	Ø 5"	Ø 4"	Tapered Pole	Ø 4"	Height
PAA410	PAA510	PST10	-----	PSB10	10 Ft. (3 M)
PAA412	PAA512	PST12	-----	PSB12	12 Ft. (3,6 M)
PAA414	PAA514	PST14	-----	PSB14	14 Ft. (4,2 M)
PAA416	PAA516	PST16	-----	PSB16	16 Ft. (4,8 M)
PAA418	PAA518	-----	-----	PSB18	18 Ft. (5,5 M)
PAA420	PAA520	-----	-----	PSB20	20 Ft. (6,0 M)
-----	-----	-----	-----	PSB25	25 Ft. (7,6 M)

For additional pole details, please refer to separate pole specification sheet.
Ø 4" = 102mm Ø 5" = 127mm

LUMINIS.



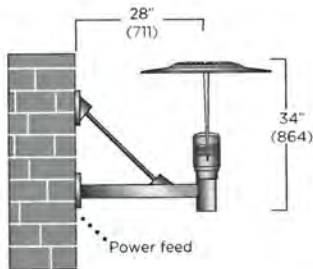
LUMINIS | Toll free: 866.586.4647 Fax: 514.683.8872 Email: info@luminis.com
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

LUMINIS.COM

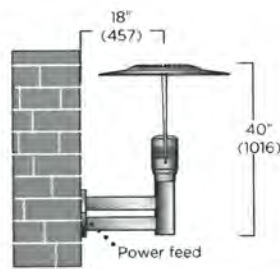
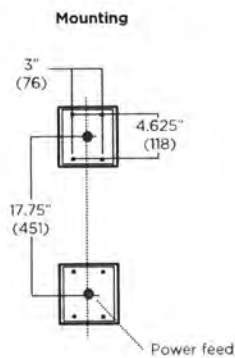
Luminaires may be altered for design improvement or discontinued without prior notice.

MA20/MA21 SERIES MAYA - LED

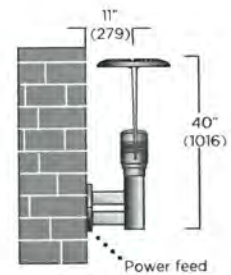
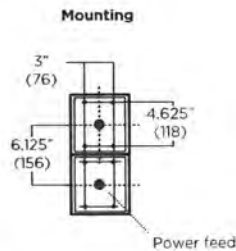
WALL MOUNT



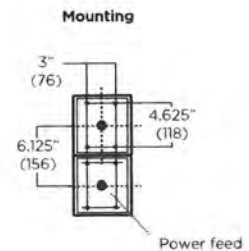
ACW
1" X 3" (25X76) extruded aluminum extended arm wall mounting adaptor with cast aluminum covers and galvanized steel mounting plates. 1/2" dia. X 45° standard natural stainless steel rod support.



EC8W (Applicable for MA20 and MA21)
Set of (2) 1" X 3" (25X76) extruded aluminum wall mount arms with cast aluminum wall plate.



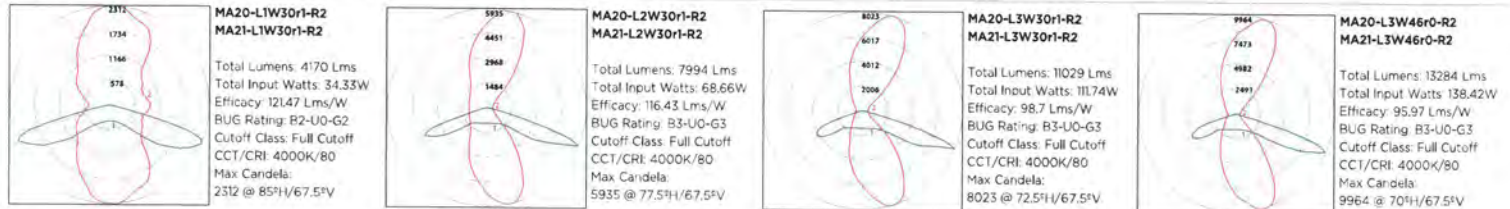
EC8WS (Applicable for MA20 only)
Set of (2) 1" X 3" (25X76) extruded aluminum wall mount arms with cast aluminum wall plate.



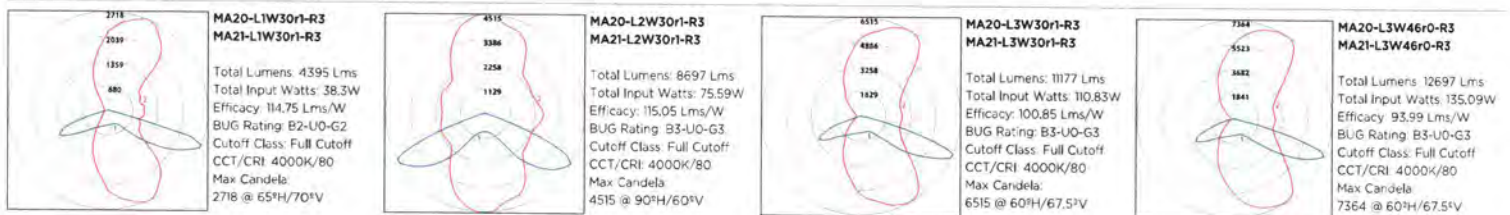
MA20/MA21 SERIES MAYA - LED

TYPICAL PHOTOMETRY SUMMARY

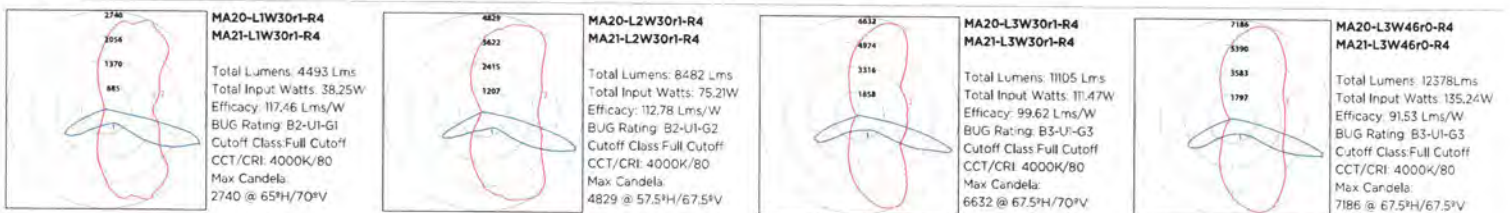
TYPE II



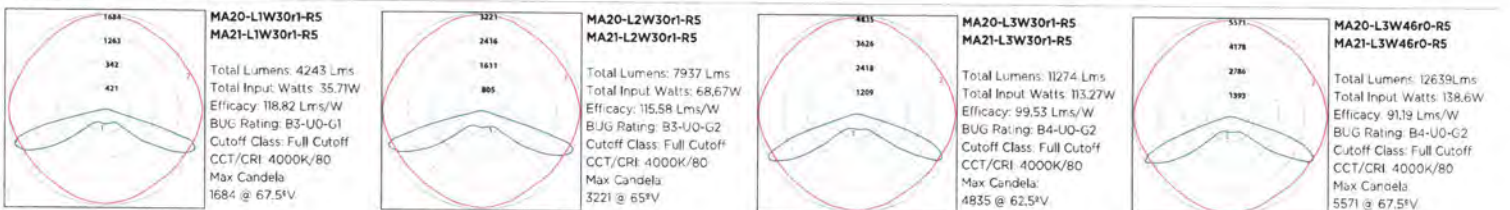
TYPE III



TYPE IV



TYPE V



Please visit our web site www.luminis.com for complete I.E.S formatted download data.
All published photometric data are executed and certified by an independent testing laboratory.

LUMINIS

LUMINIS | Toll free: 866.586.4647 Fax: 514.683.8872 Email: info@luminis.com
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

Luminaires may be altered for design improvement or discontinued without prior notice.

LUMINIS.COM

Light building element - unshielded light

BEGA

Application

LED light building element luminaires with unshielded light distribution. Light building elements are luminous design features for public areas. They are ideally suited for delineating and structuring interior and exterior spaces such as landscape areas, plazas, building entrances and atria.

Materials

Luminaire housing, post and cage constructed of die-cast and extruded marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy
 White acrylic diffuser
 High temperature silicone gasket
 Mechanically captive stainless steel fasteners
 Anchorage unite made of galvanized steel

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65
 Effective projection area: 9.7 sq. ft.
 Weight: 57.4 lbs

Electrical

Operating voltage	120-277VAC
Minimum start temperature	-30° C
LED module wattage	46.8 W
System wattage	53.0 W
Controllability	0-10V dimmable
Color rendering index	Ra > 80
Luminaire lumens	5,189 lumens (4000K)
Lifetime at Ta = 15° C	> 500,000 h (L70)
Lifetime at Ta = 45° C	192,000 h (L70)

LED color temperature

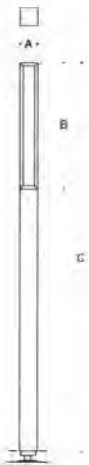
- 4000K - Product number + **K4**
- 3500K - Product number + **K35**
- 3000K - Product number + **K3**
- 2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

- Available colors Black (BLK) White (WHT) RAL:
 Bronze (BRZ) Silver (SLV) CUS:



Type:
 BEGA Product:
 Project:
 Modified:

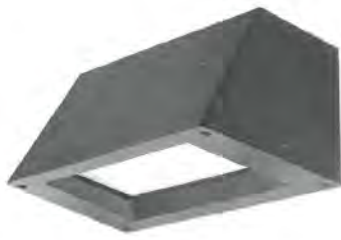


Light building element · unshielded

	LED	A	B	C	Anchorage
84875	46.8 W	6 3/8 x 6 3/8	48 3/8	157 1/2	79803

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com © copyright BEGA 2018 Updated 05/08/18



WST LED

Architectural Wall Sconce



Catalog Number
Notes
Type

Specifications Luminaire

Height: 8-1/2"
(21.59 cm)

Width: 17"
(43.18 cm)

Depth: 10-3/16"
(25.9 cm)

Weight: 20 lbs
(9.1 kg)

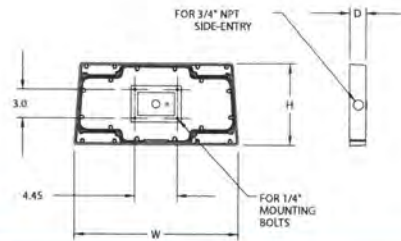


Optional Back Box (BBW)

Height: 4"
(10.2 cm)

Width: 5-1/2"
(14.0 cm)

Depth: 1-1/2"
(3.8 cm)



Introduction

The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-pixelated light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most any application.

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED

Series	Performance Package	Color temperature	Distribution	Voltage	Mounting
WST LED	P1 1,500 Lumen package	27K 2700 K	VF Visual comfort forward throw	MVOLT ¹ 277 ¹	Shipped included (blank) Surface mounting bracket Shipped separately BBW Surface-mounted back box ² PBBW Premium surface-mounted back box ^{2,1}
	P2 3,000 Lumen package	30K 3000 K	VW Visual comfort wide	120 ¹ 347	
	P3 6,000 Lumen package	40K 4000 K		208 ¹ 480	
		50K 5000 K		240 ¹	

Options		Finish (required)
PE	Photoelectric cell, button type	DDBXD Dark bronze
PER	NEMA twist-lock receptacle only	DBLXD Black
PERS	Five-wire receptacle only	DNAXD Natural aluminum
PER7	Seven-wire receptacle only	DWHXD White
PIR	Motion/Ambient Light Sensor, 8-15' mounting height ⁴	DSSXD Sandstone
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ⁴	DBBTD Textured dark bronze
PIRH	180° motion/ambient light sensor, 15-30' mounting height ⁴	DBLBD Textured black
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ⁴	DNATXD Textured natural aluminum
SF	Single fuse (120, 277, 347V) ⁵	DWHGXD Textured white
DF	Double fuse (208, 240, 480V) ⁵	DSSTXD Textured sandstone
DS	Dual switching ⁶	
E7WH	Emergency battery backup (7W) ⁷	
E7WC	Emergency battery backup (cold, 7W) ⁸	
E7WHR	Remote emergency battery backup (remote 7W) ⁹	
E20WH	Emergency battery backup (20W) ¹⁰	
E20WC	Emergency battery backup (cold, 20W) ^{10,8}	
E23WHR	Remote emergency battery backup (remote 20W) ¹⁰	
LCE	Left side conduit entry ¹¹	
RCE	Right side conduit entry ¹¹	
Shipped separately		
RBPW	Retrofit back plate ²	
VG	Vandal guard ¹²	
WG	Wire guard ¹²	

Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface-mounted back box
WSBBW DDBTX U	Surface-mounted back box
RBPW DDBXD U	Retrofit back plate

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only, when ordering with button type photocell (PE), fusing (SF, DF), or dual switching (DS). Also available as a separate accessory; see accessories information.
- Top conduit entry standard.
- Not available with PE, PER, PERS, PER7, VG or WG.
- Not available with MVOLT option. Button photocell (PE) can be ordered with a dedicated voltage option. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Not available with E7WH, E7WC, E7WHR, E20WC, E20WH, or E23WHR. Used with inverter system. Not available with 347/480V. Not available with PE, PER, PERS & PER7.
- Not available with 347/480V.
- Battery pack rated for -20° to 40°C.
- Comes with PBBW.
- Warranty period is 3-years.
- Not available with BBW.
- Must order with fixture; not an accessory.



Emergency Battery Operation

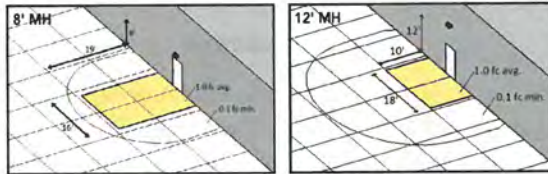
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of NFPA 70/NEC 2008 - 700.16

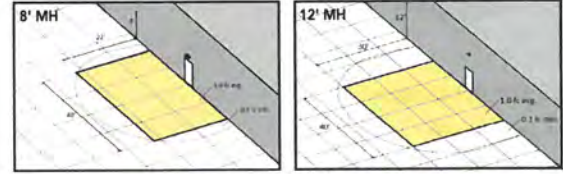
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

10' x 10' Gridlines
8' and 12' Mounting Height



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Performance Package	System Watts (MVOLT)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	1,513	0	0	0	126	1,548	0	0	0	129	1,660	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,162	1	0	1	126	3,236	1	0	1	129	3,468	1	0	1	139	3,468	1	0	1	139
		VW	3,202	1	0	0	128	3,277	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3	50W	VF	6,023	1	0	1	120	6,164	1	0	1	123	6,607	1	0	1	132	6,607	1	0	1	132
		VW	6,100	1	0	1	122	6,242	1	0	1	125	6,691	1	0	1	134	6,691	1	0	1	134

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C / 32°F	1.03
10°C / 50°F	1.02
20°C / 68°F	1.01
25°C / 77°F	1.00
30°C / 86°F	0.99
40°C / 104°F	0.98

Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	—	—
	14	—	—	—	—	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	—	—
	25	0.21	0.13	0.11	0.1	—	—
P2	30	—	—	—	—	0.09	0.06
	25	0.21	0.13	0.11	0.1	—	—
P3	50	0.42	0.24	0.21	0.19	—	—
	56	—	—	—	—	0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21	—	—

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

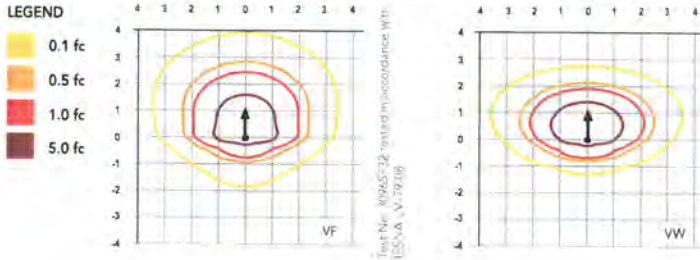
Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87



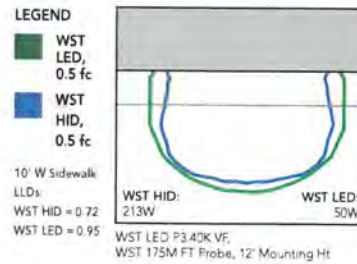
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [WST LED homepage](#).

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10')



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR options are rated for wet location. Rated for -30°C to 40°C ambient.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/DLP to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



JOB NAME _____

CONTACT _____

ORDERING CODE _____



LM-79

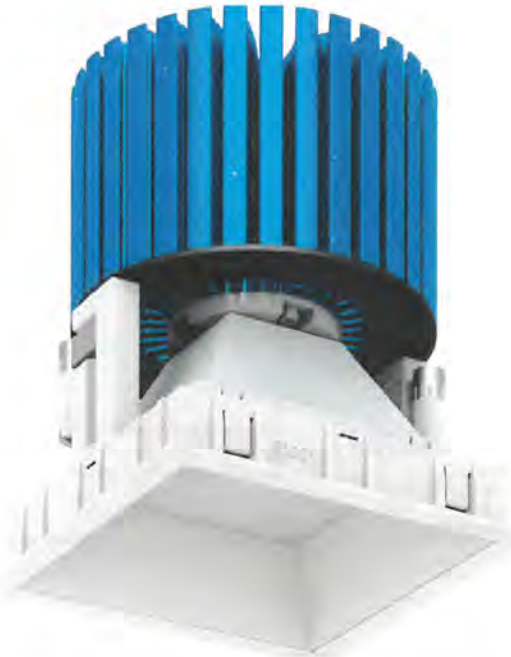
NU4QD

XICATO

lumenetix



eldoLED



DESCRIPTION

The NU4QD 4" recessed downlight by ALPHABET offers multiple cutting edge LED technologies, premium performance, thoughtful construction and pleasing aesthetics. Offered standard with premium dimming using EldoLED 1% flicker free drivers in 120V, 277V, and 347V. A minimalistic look is achieved with an ultra thin 1/16" trim that is only 5/16" wide. Color choices of both Trim and Bezel for a customized look. Optional high efficiency BrightView diffused lens for smooth light distribution and obscured LED image.

HOUSING

Electrocoated 16 gauge cold rolled steel provides enhanced structural reinforcement and rust prevention. Superior flame retardant UL certified injection molded commercial grade Lexan™ (PC) is used for the Frame and Regressed Bezel Trim. Lexan™ provides unmatched durability/ impact resistance, 250°F thermal resistance, and is UL tested for UV resistance and water exposure in outdoor applications. Thermally advanced anodized heat sink using 6063 alloy. Wet location rated is offered standard. 90min constant power IOTA emergency battery backup available in several power options.

MOUNTING

An advanced mounting system allows for quick and secure installation with LED and Driver serviceability from below the ceiling. The LED assembly uses two die cast aluminum Mounting Clamp Grips (MCG) that swing out to tighten onto variable ceiling thicknesses ranging from 1/8" to 1-5/8" thick. Integrated rubber feet on each MCG provide a non-slip vibration resistant installation. The hidden MCG system is accessible from below ceiling by removing the snap-in Lens/Bezel Assembly with either the included suction cup or a screwdriver blade. Integrated Bar Hangers feature integral toothed nails, T-bar mounting slots with locking holes. Tabs for joist positioning, and extendibility from 14-3/4" to 26". Retrofit mounting option allows for installation from below ceiling by use of compact driver box. Ceiling cutout size is 4-1/4" square.

LISTINGS

- ETLus Listed to UL1598, cETL Listed to CSA C22.2 #250.0
- Type Non-IC, IC, CP, Airtight ASTM Standard E283
- Suitable for Wet locations, IP65
- Non-conductive, Lexan™ dead-front construction
- Made in the USA – meets the requirements of the Buy American provision within the ARRA

LED INFO

- SDCM = 1X2 MacAdam Ellipse, Duv +/- 0.001

ORDERING CODE

SERIES	NU4	
TYPE	QD	square downlight
LED	XTM19	XTM19
DELIVERED LUMENS	07LM	600 lm
	10LM	860 lm
	13LM	1120 lm
	20LM	1720 lm
	30LM ²	2570 lm
40LM ^{1,3}	3430 lm	
CCT	27K	2700K
	B27K ²	2700K beauty
	30K	3000K
	V30K	3000K vibrant
	35K	3500K
40K	4000K	
CRI	83	83CRI
	98	98CRI
REFLECTOR & LM MULTIPLIER	HE60	60° high efficiency diffused lens (0.97)
	HE70	70° high efficiency diffused lens (0.94)
	HE80	80° high efficiency diffused lens (0.98)
	S60	60° specular with clear lens (1.00)
	D65	65° diffused with clear lens (0.98)
WH80	80° brilliant white with clear lens (0.99)	
NO LENS OPTION	NL ⁵	no lens
VOLTAGE	120	120V
	277	277V
DIMMING	DIM10 ⁶	standard driver with flicker free 0-10V dimming to 1%
	DIM10Z ²	flicker free 0-10V dimming to 0%
	DALI ⁶	flicker free DALI dimming to 1%
	DALIZ ⁴	flicker free DALI dimming to 0%
	DMXZ	flicker free DMX dimming to 0%
	LUDA	lutron ecosystem dimming to 1%
	ELV ⁷	leading & trailing edge dimming (Triac/ELV)
MOUNTING OPTIONS	NC	new construction with ceiling fitting plate
	IC ³	insulation contact housing
	ICAT ³	insulation contact / airtight housing
	CP ³	chicago plenum housing
RET	retrofit, no ceiling fitting plate	
TRIM COLOR	WH	white
	MC	matte chrome
	BK	black
	BZ	bronze
WT	wheat	
BEZEL COLOR	WH	white
	MC	matte chrome
	BK	black
	BZ	bronze
WT	wheat	
ELECTRICAL OPTIONS	EM7 ⁸	emergency battery backup, 90 minutes at 7 watts to LED
	EM12 ⁸	emergency battery backup, 90 minutes at 12 watts to LED
FOR 347V	order separate "347V to 277V" step down transformer	
OPTION	p/n: P70489	

ORDERING CODE

Follow the steps to specify your fixture, example:

NU4 - QD - XTM19 - 13LM - 35K - 98 - HE60 - 120 - DIM10 - NC - WH - WH - EM7

XTM19	POWER			
	DELIVERED LM	W (83CRI)	VA (83CRI)	VA (98CRI)
600	9.5	10.2	11.4	12.1
860	12.4	13.1	15.4	16.1
1120	16.5	17.2	20.9	21.6
1720	25.9	26.5	32.9	33.2
2570	36.5	36.8	42.9	42.6
3430	48.8	49.1	N/A	N/A

NOTES

- 98 CRI not available for 40LM.
- B27K Beauty Series choose 98 CRI (actual 93). Available for 07LM, 10LM, 13LM, and 20LM only.
- IC/ICAT/CP not available for 98CRI in 30LM or 83/98CRI in 40LM.
- EM12 not available for 83CRI in 07LM, 10LM or 13LM.
- No lens option available for S60, D65, or WH80 and is damp location rated.
- Driver uses logarithmic dimming curve as standard. For linear dimming curve add "LIN" after dimming code, i.e. DIM10LIN.
- Triac/ELV dimming available for 83/98cri in 10LM, 13LM, 20LM, & 83cri only in 30LM. Dimmable to < 10% in 10LM, 13LM. Dimmable to < 1% in 20LM, 30LM.
- For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Test switch is mounted in the bezel of the fixture

MOUNTING OPTIONS

XIM19 ORDERING CODE			LUMENETIX ORDERING CODE		
SERIES	NU4		NU4		
TYPE	QD	square downlight	QD	square downlight	
LED	XIM19	XIM19	LMX	LMX	
DELIVERED LUMENS	13LM 20LM 30LM ^{1,2}	1120 lm 1720 lm 2570 lm	12LM 15LM 20LM	1010 lm 1260 lm 1680 lm	
CCT & LM MULTIPLIER	27K 30K V30K 35K 40K	2700K 3000K 3000K vibrant 3500K 4000K	TC 30KWD	tunable color, 8000K - 1650K warm dimming 3050K @ 100% to 1800K @1%	
CRI	83 98	83CRI 98CRI	90	90CRI	
REFLECTOR & LM MULTIPLIER	HE60 HE70 HE80 S60 D65 WH80	60° high efficiency diffused lens (0.97) 70° high efficiency diffused lens (0.94) 80° high efficiency diffused lens (0.98) 60° specular with clear lens (1.00) 65° diffused with clear lens (0.98) 80° brilliant white with clear lens (0.99)	HE60 HE70 HE80 S60 D65 WH80	60° high efficiency diffused lens (0.97) 70° high efficiency diffused lens (0.94) 80° high efficiency diffused lens (0.98) 60° specular with clear lens (1.00) 65° diffused with clear lens (0.98) 80° brilliant white with clear lens (0.99)	
NO LENS OPTION	NL ³	no lens	NL ¹	no lens	
VOLTAGE	UNV	120V-277V	120 277	120V 277V	
DIMMING	DIM10Z DALIZ DIM10ZBL DALIZBL	flicker free 0-10V dimming to 0% flicker free DALI dimming to 0% flicker free 0-10V dimming to 0% + bluetooth control & beacon technology flicker free DALI dimming to 0% + bluetooth control & beacon technology	DIM10 DMX LUD	0-10V control, dimmable to 1% + bluetooth control DMX control, dimmable to 1%, + bluetooth control lutron ecosystem control, dimmable to 1% + bluetooth control	
MOUNTING OPTIONS	NC IC ² ICAT ² CP ² RET	new construction with ceiling fitting plate insulation contact housing insulation contact / airtight housing chicago plenum housing retrofit, no ceiling fitting plate	NC IC ICAT CP RET	new construction with ceiling fitting plate insulation contact housing insulation contact / airtight housing chicago plenum housing retrofit, no ceiling fitting plate	
TRIM COLOR	WH MC BK BZ WT	white matte chrome black bronze wheat	WH MC BK BZ WT	white matte chrome black bronze wheat	
BEZEL COLOR	WH MC BK BZ WT	white matte chrome black bronze wheat	WH MC BK BZ WT	white matte chrome black bronze wheat	
ELECTRICAL OPTIONS	EMIN FOR 347V OPTION	order separate emergency battery backup inverter, 90 minutes at full power p/n: P70490-50W order separate "347V to 277V" step down transformer p/n: P70489	EMIN FOR 347V OPTION	order separate emergency battery backup inverter, 90 minutes at full power p/n: P70490-50W order separate "347V to 277V" step down transformer p/n: P70489	

ORDERING CODE

Follow the steps to specify your fixture, example:
NU4 - QD - XIM19 - 20LM - 30K - 83 - HE60 - UNV - DALIZ - NC - MC - MC - EMIN

XTM19 DELIVERED LM	POWER			
	W (83CRI)	VA (83CRI)	W (98CRI)	VA (98CRI)
1120	16.4	17.3	20.3	21.2
1720	25.4	26.2	33.4	34.1
2570	37.1	37.7	N/A	N/A

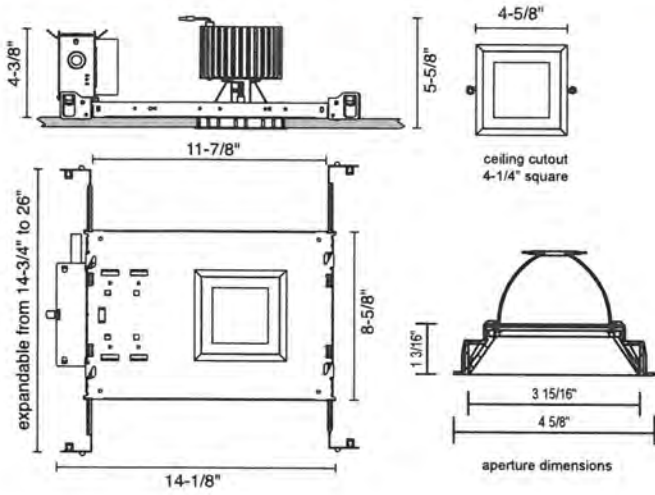
XIM19 NOTES
 1 98 CRI not available for 30LM.
 2 IC/ICAT/CP not available for 30LM.
 3 No lens option available for S60, D65, or WH80 and is damp location rated.

LMX DELIVERED LM	POWER	
	W (85CRI)	VA (85CRI)
1010	24	25
1260	31	32
1680	39	40

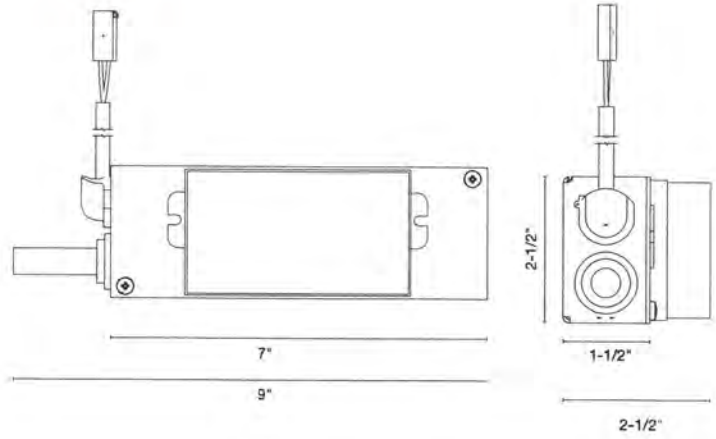
LMX NOTES
 1 No lens option available for S60, D65, or WH80 is damp location rated.

MOUNTING

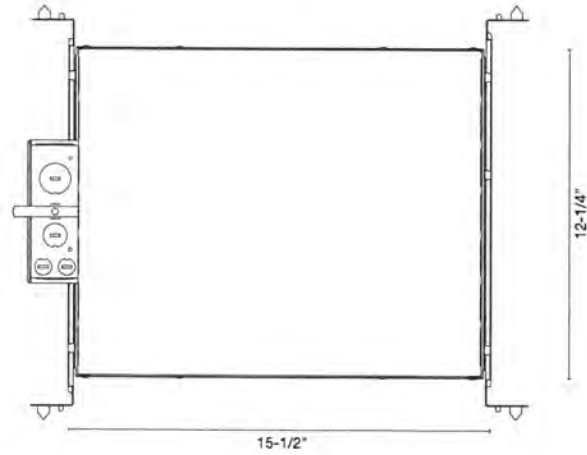
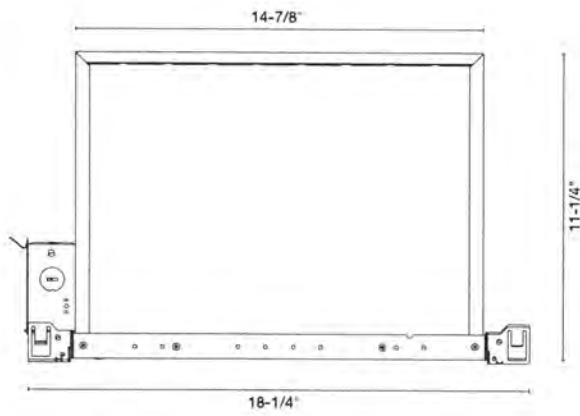
NC - NEW CONSTRUCTION



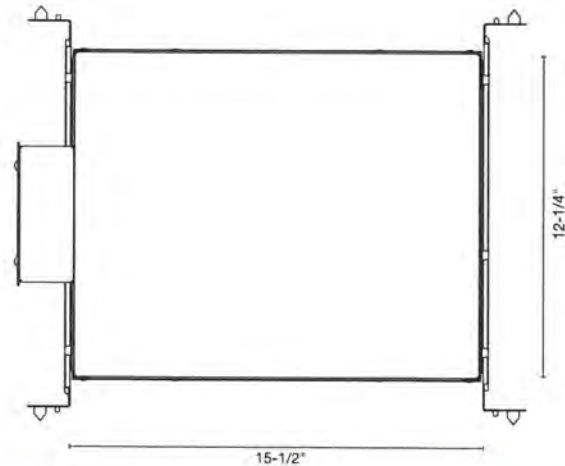
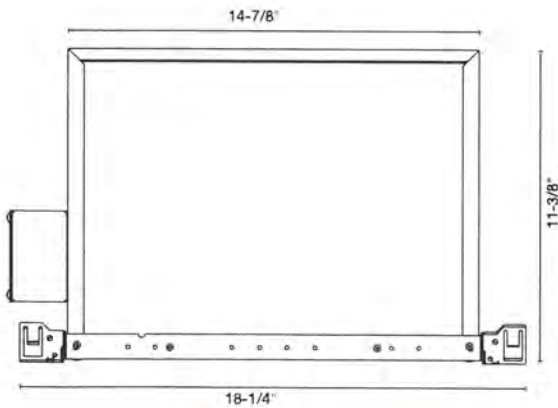
RET - RETROFIT



IC - INSULATION CONTACT HOUSING



**CP - CHICAGO PLENUM
ICAT - INSULATION CONTACT / AIR TIGHT**



ORDERING CODE - ENERGY STAR

SERIES	NU4	
TYPE	QD	square downlight
LED	XTM19	XTM19
DELIVERED LUMENS	10LM	860 lm
	13LM	1120 lm
	27LM	2311 lm
	30LM	2500 lm
	33LM	2737 lm
	40LM	3330 lm
CCT	27K	2700K
	30K	3000K
	35K	3500K
	40K	4000K
CRI	83	83CRI
	90	90CRI
REFLECTOR & LM MULTIPLIER	HE60	60° high efficiency diffused lens (0.97)
	HE70	70° high efficiency diffused lens (0.94)
	HE80	80° high efficiency diffused lens (0.98)
	S60	60° specular with clear lens (1.00)
	WH80	80° brilliant white with clear lens (0.99)
	D70	70° diffused with clear lens (0.93)
VOLTAGE	120	120V
	277	277V
DIMMING	DIM10	standard driver with flicker free 0-10V dimming to 1%
MOUNTING OPTIONS	NC	new construction with ceiling fitting plate
	IC	insulation contact housing
	ICAT	insulation contact / airtight housing
	RET	retrofit, no ceiling fitting plate
TRIM COLOR	WH	white
BEZEL COLOR	WH	white

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0-20	252.91	N.A.	32.80
0-30	459.52	N.A.	59.50
0-40	642.52	N.A.	83.20
0-60	744.53	N.A.	96.40
0-80	766.28	N.A.	99.20
0-90	768.79	N.A.	99.60
10-90	696.44	N.A.	90.20
20-40	389.61	N.A.	50.50
20-50	471.81	N.A.	61.10
40-70	115.41	N.A.	14.90
60-80	21.75	N.A.	2.80
70-80	8.36	N.A.	1.10
80-90	2.50	N.A.	0.30
90-110	2.02	N.A.	0.30
90-120	2.63	N.A.	0.30
90-130	2.97	N.A.	0.40
90-150	3.23	N.A.	0.40
90-180	3.37	N.A.	0.40
110-180	1.35	N.A.	0.20
0-180	772.16	N.A.	100.00

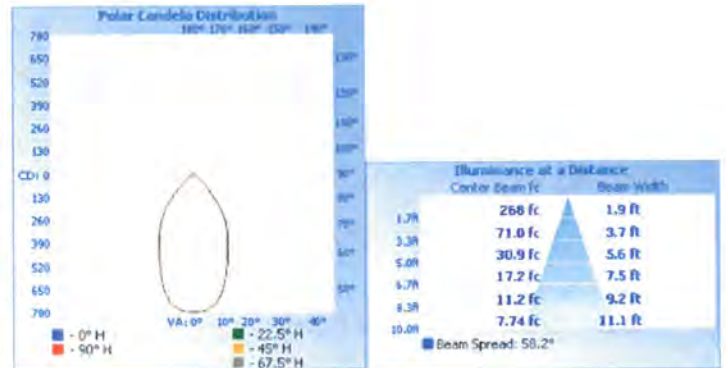
Zonal Lumen Summary

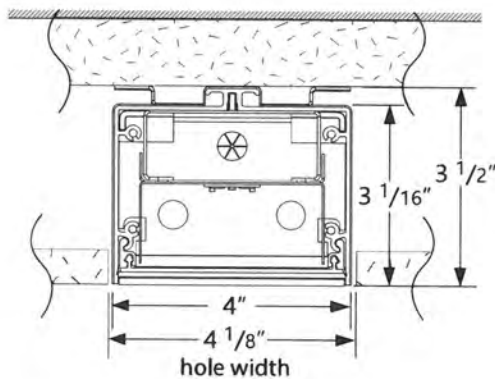
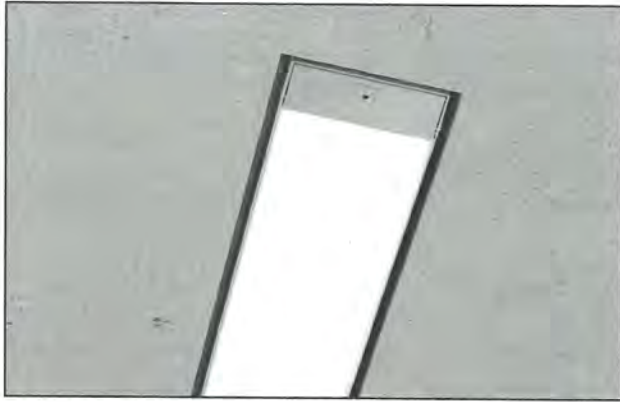
Zone	Lumens
0-10	72.35
10-20	180.56
20-30	206.61
30-40	183.00
40-50	82.20
50-60	19.81
60-70	13.39
70-80	8.36
80-90	2.50
90-100	1.15
100-110	0.88
110-120	0.60
120-130	0.35
130-140	0.15
140-150	0.11
150-160	0.08
160-170	0.05
170-180	0.02

ORDERING CODE _____

Follow the steps to specify your fixture, example:
 NU4 - QD - XTM19 - 13LM - 27K - 90 - S60 - 120 - DIM10 - IC - WH - WH

- NOTES**
- 1 IC and ICAT available only for 10LM and 13LM.
 - 2 90CRI only available for 10LM and 13LM.
 - 3 D70 only available for 27lm, 30lm, 33lm and 40lm





Project _____

Type _____

Notes _____

PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
500 lm/ft	5.5 W/ft	91 lm/W
750 lm/ft	8.3 W/ft	90 lm/W

Please consult factory for custom lumen output and wattage.



Ordering Guide

WBRLED		S				
PRODUCT ID	NOM.LUMENS/FT	CRI	COLOR TEMP.	SHIELDING	LENGTH (FT)	
WBRLED Recessed LED	500 500 lm/ft - Min.	80 80 CRI	27 2700 K	S satin lens	2 2'	
	750 750 lm/ft - Max.	90 90 CR	30 3000 K		3 3'	
			35 3500 K		4 4'	
			40 4000 K		5 5'	
					8 8'	
					S# system run	

Outputs between listed min and max are available. Consult factory for outputs outside of the listed range.

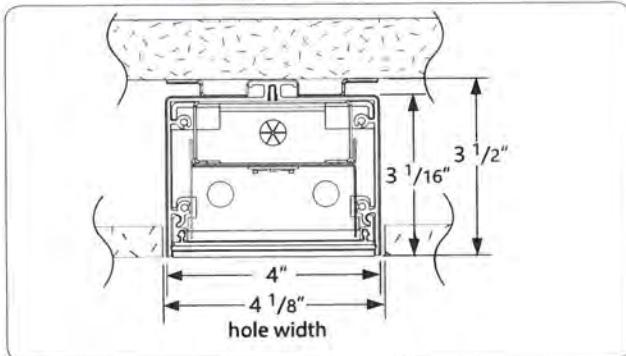
FINISH	VOLTAGE	DRIVER	CIRCUITS	MOUNTINGS
AP aluminum paint	120 120 V	DP dimming (0-10V) 1%	1 1 circuit	D drywall flangeless
W white	277 277 V	LT Lutron (1)	2 2 circuits	DF drywall flange
C custom	347 347 V	BI bi-level dimming	+E(#) emergency circuit (3)	DS drywall spackle flange
UNV universal		O other (2)	+NL(#) night light circuit (3)	
			+GTD(#) generator transfer device (3)	

(1) Operating up to -20°C. Specify system
 (2) Please consult factory; see page 2
 (3) Specify quantity

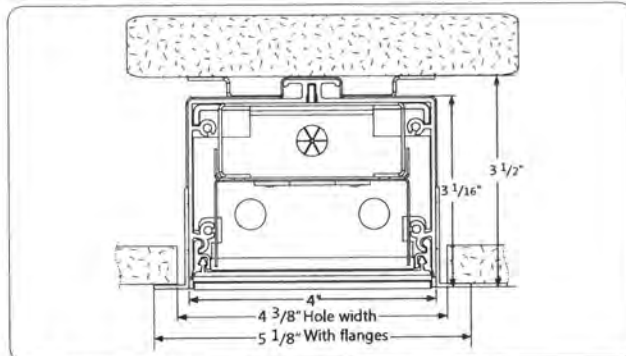
BATTERY (OPTIONAL)	OTHER (OPTIONAL)	IC CONTROLS (OPTIONAL)	CUSTOM (OPTIONAL)
B# battery pack (integral)	F fuse (4) EF end feed *	OS# occupancy sensor EN Enlighted integral WC# wireless control dimming	C custom N natatorium finish

Not available with 347V Please consult factory
 (4) Requires 120V or 277V; * See page 3 for more details.
 See integrated controls guide for further details Please consult factory
 Please specify

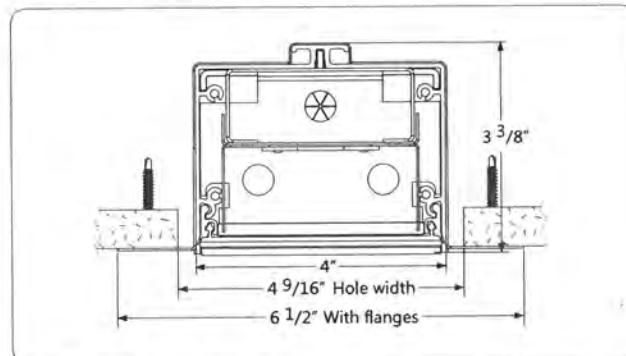
● **HORIZONTAL RECESSED MOUNTING OPTIONS**



D DRYWALL FLANGELESS



DF DRYWALL FLANGE



DS DRYWALL SPACKLE FLANGE

● **LED SYSTEM**

- CRI** Minimum 80 or 90 color rendering index.
- CCT** Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse). Both within fixture and fixture to fixture.
- LED life** Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
- Thermal Management** Aluminum housing acting as the heat sink to maximize life.

● **OTHER MOUNTING OPTIONS**

WET BEAM 4 LED is available with, pendant, surface, wall mounted options and recessed vertical.

● **CONSTRUCTION**

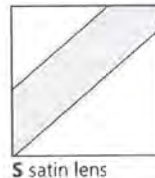
- Housing** Extruded aluminum (0.062" nominal)
Up to 70% recycled content
- End Cap** Die cast zinc (0.070" nominal)
- Interior Brackets** Die formed sheet steel (16 gauge)
- Gaskets** Moulded elastomer (0.100" nominal)
- Lens Gaskets** Extruded elastomer (0.045" nominal)
- Frosted Lens** Frosted acrylic 68% transmissive

● **ELECTRICAL**

- Lutron driver*** LDE1 - EcoSystem H-Series (1%)
LDE5 - EcoSystem S-Series (5%)
LTE - Hi-Lume® A-series 2Wires Forward Phase (1%)
*Consult factory
- Other drivers** DALI - Digital Addressable Lighting Interface
DMX - Digital Multiplex
LV - line voltage - Advance Mark 10
Xitanium SR - For wireless sensor
- Emergency** Integral emergency battery pack or emergency circuit optional.
- Input Voltage** 120V, 277V, 347V, UNV.

i Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

● **OPTICS**



SATIN LENS
PMMA satin finish (0.060" nominal) 68% trans.

S satin lens

● **WEIGHT**

- Recessed Horizontal 4 ft** 12.8 lbs / 5.8 kg
- Recessed Horizontal 8 ft** 24.5 lbs / 11.1 kg

● **GASKETTED FIXTURE**

With its gasketed end cap and lens the Wet BEAM 4 LED is made for wet locations, and is ideal for exterior soffits and canopies of malls, hospitals and other institutions.

i Row configuration, specification sheets and mounting spacing guides are available for download at: www.axislighting.com

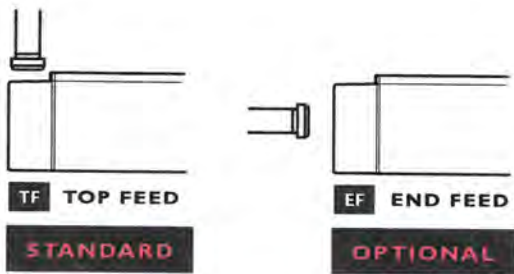
● **WARRANTY**

Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

● **FINISH**

Aluminum paint, powder coated and custom finishes are also available.

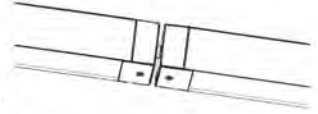
● **POWER FEED**



* Not available with 347 V.

● **JOINER SYSTEM**

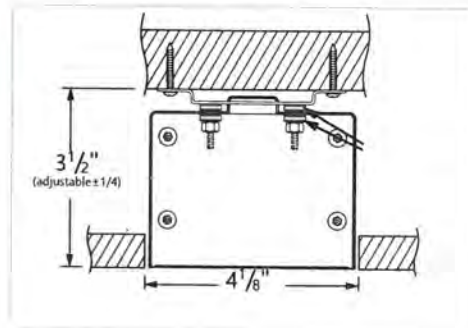
WET BEAM4 LED modular system consists of smaller modules joined and gasketed together allowing for system runs in lengths of 4' and 8' as well as custom lengths up to 8'.




* For continuous rows allow 2" for connectors between each fixture.

● **END VIEW**

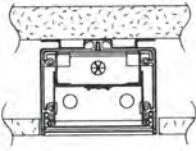
For D and DF mounting.



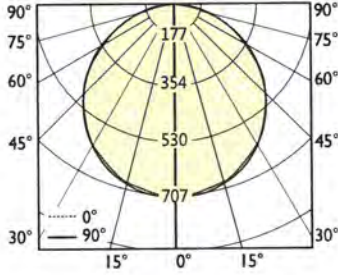
● **APPROVALS**

Certified wet locations to UL and CSA standards 

500 lm/ft



PHOTOMETRIC CURVE



Luminaire Lumens: 500 lm/ft
Input Watts: 5.5 W/ft
Efficacy: 91 lm/W
 IES FILE: WBRLED-500-80-35-S.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	704	704	704	704	704
5	697	701	700	703	706
15	672	677	677	679	682
25	623	626	627	628	631
35	552	555	555	554	555
45	465	466	466	465	465
55	363	365	364	362	361
65	249	250	249	246	244
75	129	130	126	123	121
85	29	25	20	17	16
90	0	0	0	0	0

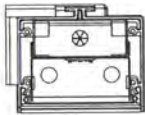
ZONAL LUMENS

Zone	Lumens
0	
0-10	67
10-20	191
20-30	289
30-40	347
40-50	359
50-60	324
60-70	245
70-80	133
80-90	28
90	

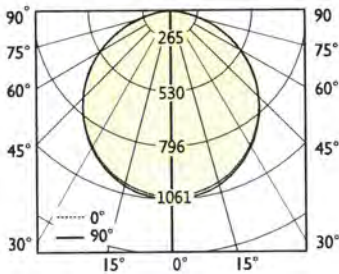
LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	5567	5579	5567
55	5357	5372	5328
65	4987	4987	4887
75	4219	4121	3957
85	2817	1942	1554

750 lm/ft



PHOTOMETRIC CURVE



Luminaire Lumens: 750 lm/ft
Input Watts: 8.3 W/ft
Efficacy: 90 lm/W
 IES FILE: WBRLED-750-80-35-S.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1056	1056	1056	1056	1056
5	1046	1052	1050	1055	1059
15	1008	1016	1016	1019	1023
25	935	939	941	942	947
35	828	833	833	831	833
45	698	699	699	698	698
55	545	548	546	543	542
65	374	375	374	369	366
75	194	195	189	185	182
85	44	38	30	26	24
90	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	100
10-20	287
20-30	433
30-40	520
40-50	539
50-60	486
60-70	368
70-80	200
80-90	43
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	8350	8368	8350
55	8036	8058	7992
65	7481	7481	7331
75	6329	6181	5936
85	4225	2914	2331



FlexConnect™

Architectural Linear Lighting System

Integrated Micro Optics
IO414 Series
Indoor/Outdoor
Wet Location (IP67)



Type	Cat. No.
Project:	
Notes:	

PRODUCT DESCRIPTION

Juno FlexConnect featuring Patent Pending microOptix technology is a diminutive flexible architectural luminaire system featuring miniature silicone optics for grazing, washing, cove, and other architectural or accent applications. Delivering up to **425 lumens per foot**, Juno FlexConnect utilizes onboard current regulation for consistent light output from the start to end of the run. Juno FlexConnect luminaires feature silicone encapsulation for durability, reliability, and ease of installation. Luminaire can be cut and reconnected in six inch increments, making FlexConnect easy to configure in the field.

PRODUCT SPECIFICATIONS

Performance Delivers up to 425 lumens per foot while consuming just 4.8 watts per foot.

Construction Flexible, silicone encapsulated LED Light engine is equipped with miniature silicone optics in three distributions: 15 deg, 20deg x 45 deg, and Asymmetric • Fourteen (14) LEDs per foot • Onboard current regulation maintains consistent light output from start to end of run • Rated for indoor or outdoor use when used with appropriate accessories.

Field-Cuttable Features integrated connectors every six (6) inches, allowing luminaire to be field cut and reconnected in six (6) inch increments. **NOTE: MUST USE IOCUTTER TO CUT LUMINAIRE - see instructions.**

Color Quality Features industry leading color consistency within 3 SDCM • Available in 2700K, 3000K, 3500K, and 4000K at 80 CRI min • 2700K and 3000K are also available in at 90 CRI min • Silicone is UV resistant for excellent color consistency over life.

Drivers Compatible with Juno Class 2, 24VDC remote mount drivers • For a list of compatible dimmers, refer to [JUNO LINEAR LED-DIM](#)

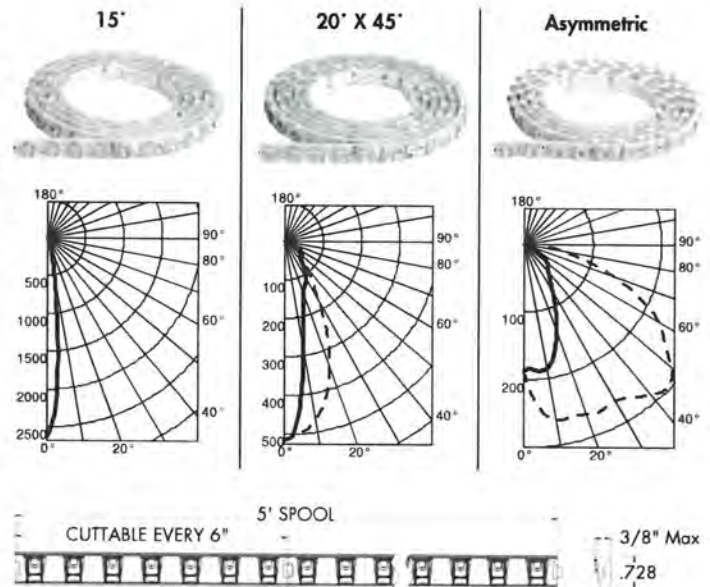
Run Length Supplied in 5' spools • Beginning of spool features 12" of 22AWG wire which can be removed if longer starter cable is required or to connect multiple strips together • Minimum run length of 1' • **Maximum run length of 20'.**

Operating Environment -30°C to 50°C, 95% humidity (non-condensing)

Life Rated for L70 50,000 hours.

Labels ETL/cETL listed for wet locations • IP67 Rated • CE certified • ENERGY STAR® certified • Can be used to comply with Title 24, part 6.

Warranty 5-year limited warranty. Complete warranty terms located at: http://www.acuitybrands.com/CustomerResources/Terms_and_Conditions.aspx
 Specifications subject to change without notice.



ORDERING INFORMATION

Luminaire

Ordering Example: IO414 15D 5FT 27K 90CRI

Series	Optic	Length	Color Temperature	CRI
IO414 FlexConnect with microOptix, 4.8 W/ft	15D 15'	5FT	27K 2700K	80CRI 90CRI ¹
	20x45D 20'x45'		30K 3000K	
	ASY Asymmetric		35K 3500K 40K 4000K	

Driver/Power Supply

Ordering Example: DLDP5 96W FPCZT IP67

Driver	Max Wattage	Dimming	Options
DLDP5 Flex 24VDC Remote Driver	25W ² 25 watt	- No Dimming	IP67 ⁷ IP67 Rated
DLDCP2 Flex 24VDC Plug-in Driver	40W 40 watt	FPCZT ⁴ 0-10V & Phase Dimming (5% min)	
	60W 60 watt	ECOS2 ³ Lutron 2-wire Forward Phase (1% min)	
	96W 96 watt	ECOS3 ⁶ Lutron 3-wire EcoSystem (1% min for 40W), (0.1% min for 96W)	

Notes:

- 1 90CRI available with 27K and 30K only.
- 2 DLDCP2 available with 25W only.
- 3 25W non-dimming only
- 4 FPCZT available in 60W & 96W only.
- 5 ECOS2 available in 40W only.
- 6 ECOS3 available for 40W & 96W.
- 7 IP67 available with FPCZT only.

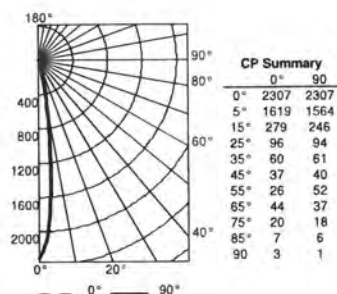
Accessories on following pages.



PHOTOMETRICS

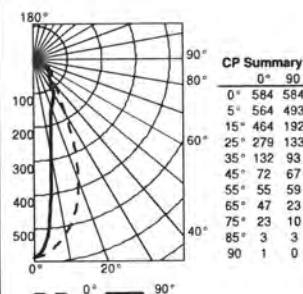
15° Optic

3500K LEDs, input watts: 4.8W, delivered lumens: 427, LM/W = 89, test no. PTO2180502R, tested in accordance to IESNA LM-79



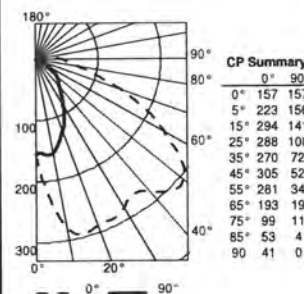
20° X 45° Optic

3500K LEDs, input watts: 4.8W, delivered lumens: 418, LM/W = 87, test no. PTO2180501R, tested in accordance to IESNA LM-79

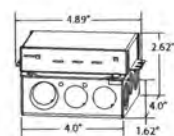


Asymmetric Optic

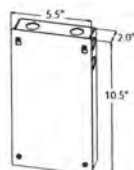
3500K LEDs, input watts: 4.8W, delivered lumens: 408, LM/W = 85, test no. PTO2180503R, tested in accordance to IESNA LM-79



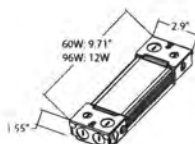
CCT	MIN CRI	WATTS PER FT	LUMENS PER FOOT		
			15D	20x45D	ASY
2700K	80	4.8	409	400	391
2700K	90	4.8	343	327	332
3000K	80	4.8	415	405	396
3000K	90	4.8	368	360	352
3500K	80	4.8	427	418	408
4000K	80	4.8	442	438	425



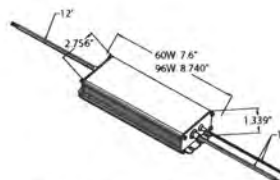
DLDPs 40W ECOS3
DLDPs 40W ECOS2



DLDPs 96W ECOS3



DLDPs 60W FPCZT
DLDPs 96W FPCZT



DLDPs 60W FPCZT IP67
DLDPs 96W FPCZT IP67



DLDCP 25W

Indoor Remote Power Supplies

Driver P/N	Dimming	Input Voltage	Min Wattage	Max Wattage	Min Dim
DLDPs 60W FPCZT DLDPs 96W FPCZT	Forward Phase/Triac, Electronic Low Voltage, 0-10V	120-277V	2W 33W	60W 96W	5% 5%
DLDPs 40W ECOS2	Lutron Hi-Lume, 2-wire forward phase	120V	2W	40W	1%
DLDPs 40W ECOS3 DLDPs 96W ECOS3	Lutron Hi-Lume, 3-wire and EcoSystem	120-277V	2W 33W	40W 96W	1% 0.1%
DLDPs 25W	Non-Dimming	120-277V	2W	25W	N/A

IP67 Rated Power Supplies

Driver P/N	Dimming	Input Voltage	Min Wattage	Max Wattage	Min Dim
DLDPs 60W FPCZT IP67 DLDPs 96W FPCZT IP67	Forward Phase/Triac, Electronic Low Voltage, 0-10V	120-277V	2W 33W	60W 96W	5% 5%

Plug-in Power Supplies

Driver P/N	Dimming	Input Voltage	Min Wattage	Max Wattage	Min Dim
DLDCP 25W	Non-Dimming	120-277V	2W	25W	No Dim

FlexConnect™





Architectural Linear Lighting System





Integrated Micro Optics

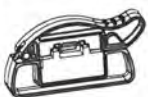
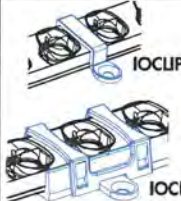
IO414 Series

Indoor/Outdoor

micrOptix™ Wet Location (IP67)

Electrical Feeds	Catalog #	Description	Length
 Starter Cable	SL101P 36IN	Connects driver to start of FlexConnect luminaire. 22AWG, CL2 rated for in-wall use.	36"
	SL101P 144IN	Connects driver to start of FlexConnect luminaire. 22AWG, CL2 rated for in-wall use. Connects driver to start of FlexConnect luminaire.	144"
 Indoor Terminal Block	SL101TB	Input: Accepts 14AWG - 22AWG wire input. Output: 12AWG starter cable	
	IO101TB	Input: Accepts 14 - 22 AWG solid/stranded wire input. Output: Connects directly to FlexConnect (IO Series) strips"	
 Joiner Cable	SL102FLX 2IN	Joins two segments of FlexConnect. 22AWG wire.	2"
	SL102FLX 6IN	Joins two segments of FlexConnect. 22AWG, CL2 rated for in-wall use.	6"
	SL102FLX 12IN	Joins two segments of FlexConnect. 22AWG, CL2 rated for in-wall use.	12"
	SL102FLX 36IN	Joins two segments of FlexConnect. 22AWG, CL2 rated for in-wall use.	36"
	SL102FLX 72IN	Joins two segments of FlexConnect. 22AWG, CL2 rated for in-wall use.	72"
 3-Way Connector	SL102Y	Joins three segments of FlexConnect. 22AWG wire.	

IP67 Rated Connectors	Catalog #	Description
 IP67 Rated Terminal Block	IO101TB IP67	Input: Accepts 14 - 22 AWG solid/stranded wire. Output: Connects directly to FlexConnect (IO Series) strips
 IP67 Endcap	IO101EC IP67	Seals cut end of FlexConnect
 IP67 End Feed	IO101F IP67	Input: 22 AWG starter cable or joiner cable Output: FlexConnect (IO Series) strips.
 IP67 End to end connector	IO102EE IP67	IP67 End to end connector, seals and connects two cut ends of FlexConnect (IO Series) for continuous run

Mounting Clips & Cutter	Catalog #	Description
 Cutter	IOCUTTER	IO414 Series Cutting Tool - Required to field cut luminaire
 Mounting Clips	IOCLIP/I	Indoor Clips (Bag of 20 clips. Recommend spacing every 3")
	IOCLIP/O	Outdoor Clips - For use with when IP67 connector boxes are used (Bag of 20 clips. Recommend spacing every 3")

FlexConnect™

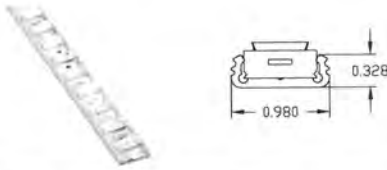
Architectural Linear Lighting System

Integrated Micro Optics
IO414 Series

micrOptix™ **Indoor/Outdoor**
Wet Location (IP67)

Surface Mount Channels

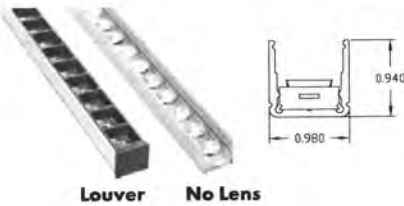
Ordering Example: IOLP 5FT ADJ SA



Channel	Length	Mounting Option	Lens	Finish
IOLP Low Profile Surface Mount	5FT	- Standard Surface Mount ADJ Adjustable Mounting Bracket (allows aiming 0-180 degrees)	- no lens CL Clear Lens	SA Satin Aluminum BL Black WH White

Lens is not needed to maintain IP67. Lens is only recommended when luminaire is oriented in such a way that water can pool on the optic face.

Ordering Example: IODC 5FT ADJ BLV



Channel	Length	Mounting Option	Lens	Finish
IODC Deep Surface Mount	5FT	- Standard Surface Mount ADJ Adjustable Mounting Bracket (allows aiming 0-180 degrees)	- no lens CL Clear Lens BLV Louver (black)	SA Satin Aluminum BL Black WH White

Lens is not needed to maintain IP67. Lens is only recommended when luminaire is oriented in such a way that water can pool on the optic face.

Ordering Example: IO45C 5FT BL



Channel	Length	Finish
IO45C 45 Degree Surface Mount	5FT	SA Satin Aluminum BL Black WH White

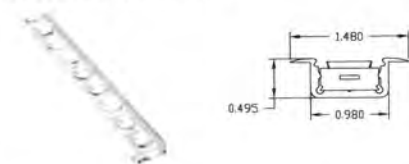
Ordering Example: IOFLXC 5FT SA



Channel	Length	Finish
IOFLXC Flexible Surface Mount	5FT	SA Satin Aluminum

Recessed Channels

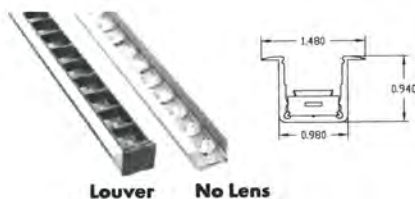
Ordering Example: IOLPR 5FT SA



Channel	Length	Lens	Finish
IOLPR Low Profile Recessed	5FT	- no lens CL Clear Lens	SA Satin Aluminum BL Black WH White

Lens is not needed to maintain IP67. Lens is only recommended when luminaire is oriented in such a way that water can pool on the optic face.

Ordering Example: IODCR 5FT CL SA



Channel	Length	Lens	Finish
IODCR Deep Recessed Channel	5FT	- no lens CL Clear Lens BLV Louver (black)	SA Satin Aluminum BL Black WH White

Lens is not needed to maintain IP67. Lens is only recommended when luminaire is oriented in such a way that water can pool on the optic face.



Solar Illuminations
 5611 Halifax Avenue
 Fort Myers, FL 33912, USA
 Tel.: +1 (239) 461-5522
 Fax: +1 (239) 337-7887
 www.solarilluminations.com
 sales@solarilluminations.com
 M-F 8am – 5pm EST

INVOICE

INVOICE NO. J0124191
DATE 01/24/2019
DUE DATE 01/24/2019
CUST. PO# -

INVOICE TO
 CITY OF SELAH
 TY JONES
 115 W Naches Ave
 Selah WA 98942
 TY.JONES@SELAHWA.GOV
 509-698-7373

SHIP TO
 CITY OF SELAH
 ATTN: TY JONES
 222 S RUSHMORE RD
 SELAH, WA 98942

SHIP VIA
 UPS GROUND

SPECIAL ORDER
 YES

PAYMENT TERMS
 PRE-PAID

PRODUCT

CUSTOM
 DIMMING CABLE FOR MPPT CONTROLLER

QTY	RATE	AMOUNT
1	17.00	17.00

PAID

WARRANTY REGISTRATION
 Warranty registration is required within 30 days of purchase in to receive your included warranty. Register at www.solarilluminations.com/registration

FREIGHT SHIPMENTS
 Loss, damage or shortage on freight shipments must be noted on the bill of lading at the time of delivery. We must be notified of such issues immediately Shipping claims can not be processed unless loss, damage, or shortage is noted at time of delivery.

This order is subject to the Terms, conditions & Policies (including our Returns Policy) of Solar Illuminations, viewable at solarilluminations.com which provisions (as deemed agreed by proceeding with this order), shall govern in the event of any conflict or claim. Please note "special order" items are not returnable for refund.

SUBTOTAL	17.00
DISCOUNT	
TAX (FL)	
SHIPPING	10.00
TOTAL	27.00
BALANCE DUE	\$0.00

For orders shipped within Florida only: In compliance with Florida Law and in respect to Chapter 2005-83, Laws of Florida: Sections 212.02(26) and 212.08(7)(hh), Florida Statutes. You are certifying that this order is eligible for Florida sales and use tax exemption because all equipment and requisite hardware purchased is for use exclusively in a solar energy system.

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft³) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1

electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492.5. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/DLP to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/customer/Relationships/Products/DSX1-LED/Support.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





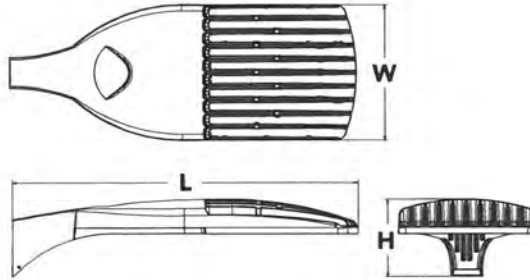
D-Series Size 1 LED Area Luminaire

d^{series}



Specifications

EPA:	1.01 ft ² (0.09 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height:	7-1/2" (19.0 cm)
Weight (max):	27 lbs (12.2 kg)



Catalog Number
Notes
Type

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD

DSX1LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting	
DSX1 LED	Forward optics	30K 3000 K	T1S Type I short	T5S Type V short	MVOLT ^{4,5} 120 ⁶ 208 ^{5,6} 240 ^{5,6} 277 ⁶ 347 ^{5,6,7} 480 ^{5,6,7}	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ² RPUMBA Round pole universal mounting adaptor ² Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ³
	P1 P4 P7	40K 4000 K	T2S Type II short	T5M Type V medium		
	P2 P5 P8	50K 5000 K	T2M Type II medium	TSW Type V wide		
	P3 P6 P9	AMBPC Amber phosphor converted ⁷	T3S Type III short	BLC Backlight control ^{-1,3}		
	Rotated optics		T3M Type III medium	LCCO Left corner cutoff ^{2,3}		
	P10 ¹ P12 ¹		T4M Type IV medium	RCCO Right corner cutoff ^{2,3}		
	P11 ¹ P13 ¹		TFTM Forward throw medium			
			T4M Type IV medium			
			TFTM Forward throw medium			
			TSVS Type V very short			

Control options	Other options	Finish (finish)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ¹⁰ PER NEMA twist-lock receptacle only (controls ordered separate) ¹¹ PER5 Five-wire receptacle only (controls ordered separate) ^{11,12} PER7 Seven-wire receptacle only (controls ordered separate) ^{11,12} DMG 0-10V dimming extend out back of housing for external control (leads exit fixture) DS Dual switching ^{13,14} PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{5,15,16} PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{5,15,16} PIRHN Network, Bi-Level motion/ambient sensor ¹⁷ PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{5,15,16}	PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{5,15,16} BL30 Bi-level switched dimming, 30% ^{5,13,18} BL50 Bi-level switched dimming, 50% ^{5,13,18} PNMTDD3 Part night, dim till dawn ^{5,19} PNMTSD3 Part night, dim 5 hrs ^{5,19} PNMT6D3 Part night, dim 6 hrs ^{5,19} PNMT7D3 Part night, dim 7 hrs ^{5,19} FAO Field adjustable output ²⁰	Shipped installed HS House-side shield ²¹ SF Single fuse (120, 277, 347V) ⁸ DF Double fuse (208, 240, 480V) ⁹ L90 Left rotated optics ¹ R90 Right rotated optics ¹ Shipped separately BS Bird spikes ²² EGS External glare shield ²²
		DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



Ordering Information

Accessories

Ordered and shipped separately

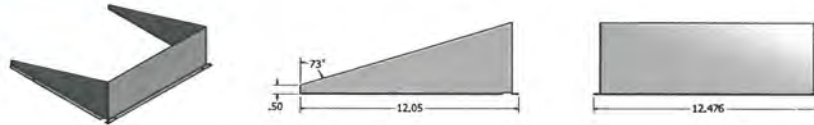
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹¹
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹¹
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹¹
DSHORT SBK U	Shorting cap ²¹
DSX1HS 30C U	House-side shield for 30 LED unit ²¹
DSX1HS 40C U	House-side shield for 40 LED unit ²¹
DSX1HS 60C U	House-side shield for 60 LED unit ²¹
PUMBA DDBXU*	Square and round pole universal mounting bracket (specify finish) ¹⁴
KMA8 DDBXU	Max arm mounting bracket adaptor (specify finish) ¹

For more control options, visit [DRL](#) and [ROAM](#) online

NOTES

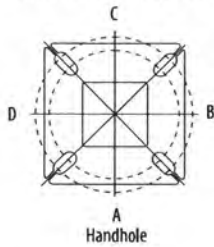
- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- AMBPC is not available with BLC, LCCO, RCCO or P4, P7, P8, P9 or P13.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Any PIRx with BL30, BL50 or PNMT, is not available with 208V, 240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P1 or P10. Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory, for retrofit use only: PUMBA (finish) U, 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory, see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming. Shorting cap included.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PERS, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits.
- Reference Motion Sensor table on page 3.
- Reference PER table on page 3 to see functionality.
- Must be ordered with NLTAR2. For more information on nLight Air 2 visit [this link](#).
- Not available with 347V, 480V, PNMT, DS. For PERS or PER7, see PER Table on page 3. Requires isolated neutral.
- Not available with 347V, 480V, DS, BL30, BL50. For PERS or PER7, see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory, see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PERS or PER7 option. See PER Table on page 3.
- For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Pole drilling nomenclature: # of heads at degree from handhole (default side A)

DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

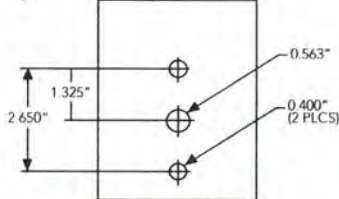
Note: Review luminaire spec sheet for specific nomenclature

Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
DSX SPA	Y	Y	Y	N	-	-	-	-
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	-	-	-	-
DSX RPUMBA	N	N	N	N	Y	Y	Y	N

*3 fixtures @ 120 require round pole top/tenon.

Template #8

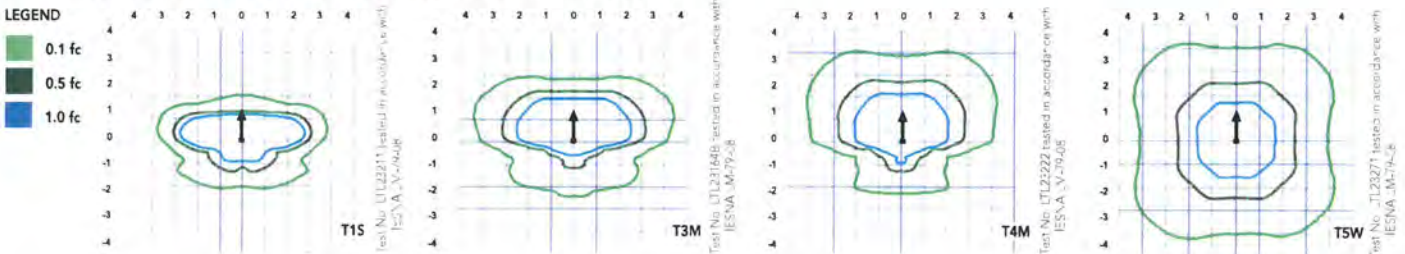
Top of Pole



Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25000	50000	100000
Lumen Maintenance Factor	1.00	0.96	0.92	0.85

Electrical Load

Performance Package	LED Count	Drive Current	Wattage	Current (A)						
				120	208	240	277	347	480	
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use with Inline Dusk to Dawn or timer.

PER Table

Control	PER (3 wire)	PERS (5 wire)		PER7 (7 wire)		
		Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7	Wire 6/Wire7	
Photocontrol Only (On/Off)	✓	▲	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	✗	▲	Wires Capped inside fixture	▲	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	✗	▲	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	✗	▲	Wires Capped inside fixture	✓	Wires Capped inside fixture	Wires Capped inside fixture

✓ Recommended
✗ Will not work
▲ Alternate

*Future-proof means: Ability to change controls in the future.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																												
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)				40K (4000 K, 70 CRI)				50K (5000 K, 70 CRI)				AMBPC (Amber Phosphor Converted)											
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130	3,640	1	0	1	70				
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130	3,813	1	0	1	73				
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131	3,689	1	0	1	71				
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127	3,770	1	0	1	73				
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131	3,752	1	0	1	72				
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128	3,758	1	0	1	72				
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131	3,701	1	0	1	71				
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136	3,928	2	0	0	76				
				TSS	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136	3,881	2	0	0	75				
				TSM	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136	3,930	2	0	1	76				
				TSW	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135	3,820	3	0	1	73				
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107									
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80									
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80									
				30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129	4,561	1	0	1	67
								T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128	4,777	1	0	1	70
T2M	8,283	2	0					2	118	8,923	2	0	2	127	9,036	2	0	2	129	4,622	1	0	2	68				
T3S	8,021	2	0					2	115	8,641	2	0	2	123	8,751	2	0	2	125	4,724	1	0	1	69				
T3M	8,263	2	0					2	118	8,901	2	0	2	127	9,014	2	0	2	129	4,701	1	0	2	69				
T4M	8,083	2	0					2	115	8,708	2	0	2	124	8,818	2	0	2	126	4,709	1	0	2	69				
TFTM	8,257	2	0					2	118	8,896	2	0	2	127	9,008	2	0	2	129	4,638	1	0	2	68				
TSVS	8,588	3	0					0	123	9,252	3	0	0	132	9,369	3	0	0	134	4,922	2	0	0	72				
TSS	8,595	3	0					1	123	9,259	3	0	1	132	9,376	3	0	1	134	4,863	2	0	0	72				
TSM	8,573	3	0					2	122	9,236	3	0	2	132	9,353	3	0	2	134	4,924	3	0	1	72				
TSW	8,517	3	0					2	122	9,175	4	0	2	131	9,291	4	0	2	133	4,787	3	0	1	70				
BLC	6,770	1	0					2	97	7,293	1	0	2	104	7,386	1	0	2	106									
LCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79									
RCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79									
30	1050	P3	102W					T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125					
								T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125					
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125									
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121									
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125									
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122									
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125									
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130									
				TSS	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130									
				TSM	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130									
				TSW	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129									
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102									
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76									
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76									
				30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117					
								T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117					
T2M	13,490	2	0					2	108	14,532	3	0	3	116	14,716	3	0	3	118									
T3S	13,064	3	0					3	105	14,074	3	0	3	113	14,252	3	0	3	114									
T3M	13,457	2	0					2	108	14,497	2	0	2	116	14,681	2	0	2	117									
T4M	13,165	2	0					3	105	14,182	2	0	3	113	14,362	2	0	3	115									
TFTM	13,449	2	0					3	108	14,488	2	0	3	116	14,672	2	0	3	117									
TSVS	13,987	4	0					1	112	15,068	4	0	1	121	15,259	4	0	1	122									
TSS	13,999	3	0					1	112	15,080	3	0	1	121	15,271	3	0	1	122									
TSM	13,963	4	0					2	112	15,042	4	0	2	120	15,233	4	0	2	122									
TSW	13,872	4	0					3	111	14,944	4	0	3	120	15,133	4	0	3	121									
BLC	11,027	1	0					2	88	11,879	1	0	2	95	12,029	1	0	2	96									
LCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72									
RCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72									
30	1400	P5	138W					T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116					
								T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116					
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117									
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113									
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116									
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114									
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116									
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121									
				TSS	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121									
				TSM	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121									
				TSW	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120									
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95									
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71									
					8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71									



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																														
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)										
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW						
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118											
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118											
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119											
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115											
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118											
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116											
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118											
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123											
				TSS	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123											
				TSM	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123											
				TSW	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122											
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97											
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72											
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72											
				40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115							
								T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114							
								T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115							
								T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111							
T3M	19,258	3	0					3	105	20,746	3	0	3	113	21,009	3	0	3	115											
T4M	18,840	3	0					4	103	20,296	3	0	4	111	20,553	3	0	4	112											
TFTM	19,246	3	0					4	105	20,734	3	0	4	113	20,996	3	0	4	115											
TSVS	20,017	4	0					1	109	21,564	4	0	1	118	21,837	4	0	1	119											
TSS	20,033	4	0					2	109	21,581	4	0	2	118	21,854	4	0	2	119											
TSM	19,983	4	0					2	109	21,527	5	0	3	118	21,799	5	0	3	119											
TSW	19,852	5	0					3	108	21,386	5	0	3	117	21,656	5	0	3	118											
BLC	15,780	2	0					3	86	16,999	2	0	3	93	17,214	2	0	3	94											
LCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70											
RCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70											
60	1050	P8	207W					T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119							
								T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118							
								T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119							
								T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115							
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119											
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116											
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119											
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123											
				TSS	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123											
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123											
				TSW	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122											
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97											
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72											
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72											
				60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116							
								T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116							
								T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116							
								T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113							
T3M	25,617	3	0					4	106	27,597	3	0	4	115	27,946	3	0	4	116											
T4M	25,061	3	0					4	104	26,997	3	0	4	112	27,339	3	0	4	113											
TFTM	25,602	3	0					4	106	27,580	3	0	4	114	27,929	3	0	4	116											
TSVS	26,626	5	0					1	110	28,684	5	0	1	119	29,047	5	0	1	121											
TSS	26,648	4	0					2	111	28,707	5	0	2	119	29,070	5	0	2	121											
TSM	26,581	5	0					3	110	28,635	5	0	3	119	28,997	5	0	3	120											
TSW	26,406	5	0					4	110	28,447	5	0	4	118	28,807	5	0	4	120											
BLC	20,990	2	0					3	87	22,612	2	0	3	94	22,898	2	0	3	95											
LCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71											
									15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71							



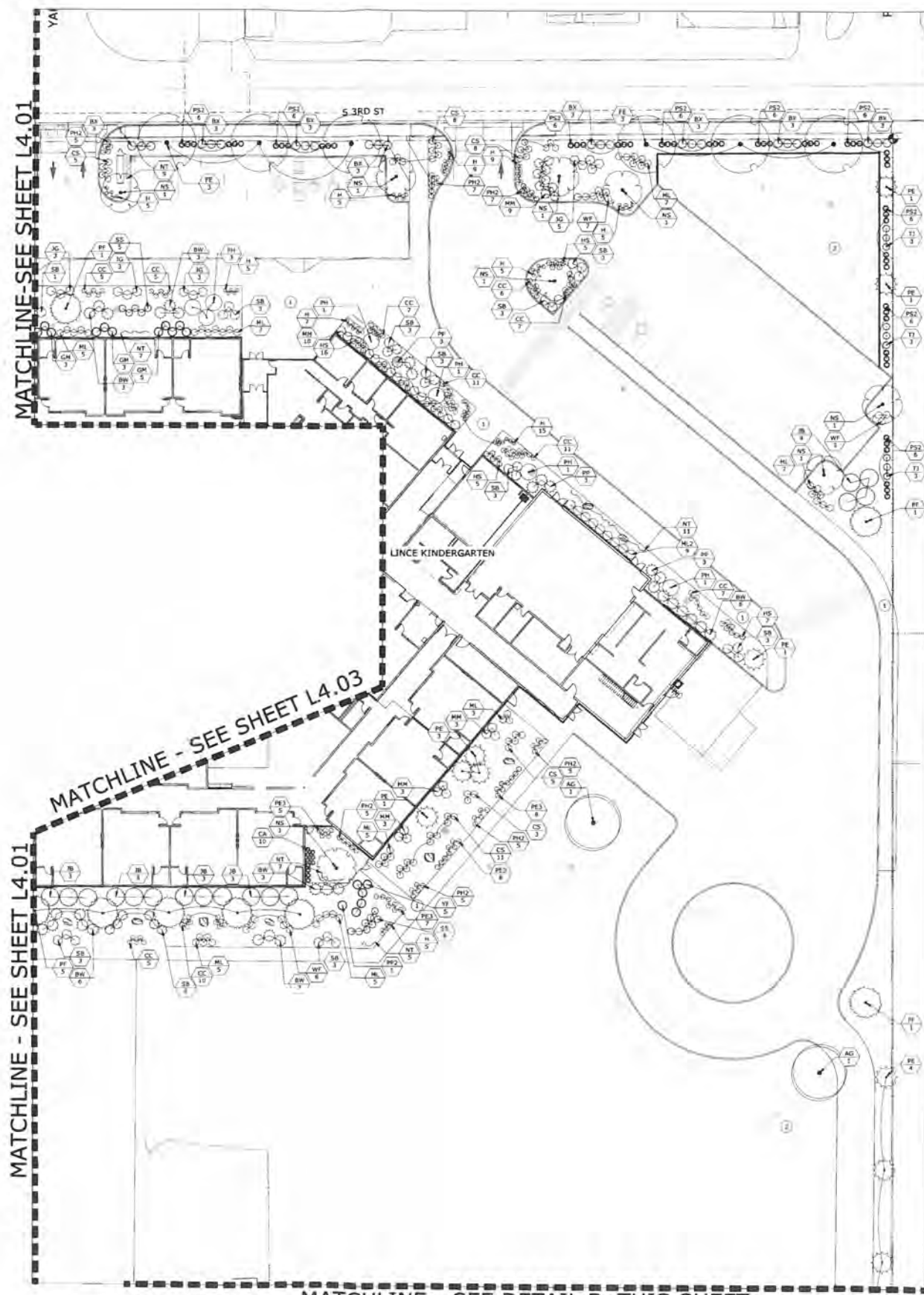
Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																										
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)						
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW		
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134	7,167	2	0	2	72		
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133	7,507	2	0	2	76		
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136	7,263	2	0	2	73		
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131	7,424	2	0	2	75		
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136	7,387	2	0	2	75		
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133	7,400	2	0	2	75		
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137	7,288	1	0	2	74		
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138	7,734	3	0	1	78		
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136	7,641	3	0	0	77		
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136	7,737	3	0	2	78		
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135	7,522	3	0	2	76		
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112							
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80							
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80							
				60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132	8,952	2	0
T2S	16,461	4	0					4	120	17,733	4	0	4	129	17,957	4	0	4	131	9,377	2	0	2	72		
T2M	16,758	4	0					4	122	18,053	4	0	4	132	18,281	4	0	4	133	9,072	2	0	2	69		
T3S	16,205	4	0					4	118	17,457	4	0	4	127	17,678	4	0	4	129	9,273	2	0	2	71		
T3M	16,748	4	0					4	122	18,042	4	0	4	132	18,271	4	0	4	133	9,227	2	0	2	70		
T4M	16,432	4	0					4	120	17,702	4	0	4	129	17,926	4	0	4	131	9,243	2	0	2	71		
TFTM	16,857	4	0					4	123	18,159	4	0	4	133	18,389	4	0	4	134	9,103	2	0	2	69		
TSVS	16,975	4	0					1	124	18,287	4	0	1	133	18,518	4	0	1	135	9,661	3	0	1	74		
TSS	16,832	4	0					1	123	18,133	4	0	2	132	18,362	4	0	2	134	9,544	3	0	1	73		
TSM	16,828	4	0					2	123	18,128	4	0	2	132	18,358	4	0	2	134	9,665	3	0	2	74		
TSW	16,677	4	0					3	122	17,966	5	0	3	131	18,193	5	0	3	133	9,395	4	0	2	72		
BLC	13,845	3	0					3	101	14,915	3	0	3	109	15,103	3	0	3	110							
LCCO	9,888	1	0					3	72	10,652	2	0	3	78	10,787	2	0	3	79							
RCCO	9,875	4	0					4	72	10,638	4	0	4	78	10,773	4	0	4	79							
60	1050	P12	207W					T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121			
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120							
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123							
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119							
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123							
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120							
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123							
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124							
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123							
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123							
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122							
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101							
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72							
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72							
				60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120			
T2S	25,254	5	0					5	109	27,205	5	0	5	118	27,550	5	0	5	119							
T2M	25,710	4	0					4	111	27,696	4	0	4	120	28,047	4	0	4	121							
T3S	24,862	5	0					5	108	26,783	5	0	5	116	27,122	5	0	5	117							
T3M	25,695	5	0					5	111	27,680	5	0	5	120	28,031	5	0	5	121							
T4M	25,210	5	0					5	109	27,158	5	0	5	118	27,502	5	0	5	119							
TFTM	25,861	5	0					5	112	27,860	5	0	5	121	28,212	5	0	5	122							
TSVS	26,043	5	0					1	113	28,056	5	0	1	121	28,411	5	0	1	123							
TSS	25,824	4	0					2	112	27,819	5	0	2	120	28,172	5	0	2	122							
TSM	25,818	5	0					3	112	27,813	5	0	3	120	28,165	5	0	3	122							
TSW	25,586	5	0					4	111	27,563	5	0	4	119	27,912	5	0	4	121							
BLC	21,241	4	0					4	92	22,882	4	0	4	99	23,172	4	0	4	100							
LCCO	15,170	2	0					4	66	16,342	2	0	4	71	16,549	2	0	4	72							
									15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72			





A LANDSCAPE PLAN MATCHLINE - SEE DETAIL B, THIS SHEET

CALLOUTS

- 1 HIRSCAPE SEE ARCHITECTURAL DRAWINGS
- 2 SWALE SEE CIVIL DRAWINGS
- 3 COURTYARD SEE SHEET L4.05

LEGEND

- SOODED TURFGRASS WITH AUTOMATIC OVERHEAD IRRIGATION
- HYDROSEDED TURFGRASS WITH AUTOMATIC OVERHEAD IRRIGATION
- 8" CONCRETE MONOLITH
- LIMIT OF WORK

PLANT LEGEND

TRFIS	BOTANICAL NAME / COMMON NAME	SIZE	QTY
AC	<i>Acer rubrum</i> "October Glory" TR / October Glory Maple	2" Cal	2
FE	<i>Ficus excelsa</i> "Golden Desert" / Golden Desert Ash	2" Cal	6
MR	<i>Magnolia stellata</i> "Royal Star" / Royal Star Magnolia	2" Cal	6
NS	<i>Nyssa sylvatica</i> / Black Tupelo	2" Cal	1
PE	<i>Pinus sylvestris</i> "Fastigata" / Erect Scotch Pine	7-8" Tall	9
PT	<i>Pinus Resinosa</i> "Vanderwal" & "Pyramis" / Vanderwal & Pyramis Pine	2.8" Tall	8
PR	<i>Prunus x hillieri</i> "Spire" / Spire Cherry	2" Cal	1
PS	<i>Picea alba</i> "Pendula" / Weeping Norway Spruce	5 gal	1
TJ	<i>Thuja occidentalis</i> "Jamez Gold" / Highlights Arborvitae	7-8" Tall	6
SHRUBS			
	BOTANICAL NAME / COMMON NAME	SIZE	QTY
BR	<i>Buxus microcarpa japonica</i> "Winter Gem" / Winter Gem Boxwood	5 gal	24
BR	<i>Buxus x Green Gem</i> / Green Gem Boxwood	2 gal	24
CA	<i>Calamagrostis x acutiflora</i> "Karl Foerster" / Feather Reed Grass	1 gal	10
CC	<i>Carex ostenii</i> "dandelion" "Blue Hill" / Blue Hill Sedge	1 gal	14
CS	<i>Cornus sericea</i> "Kelsey" / Kelsey Dogwood	1 gal	11
GR	<i>Stachytaraxa flexuosus</i> "Grassella" / Grassella Maiden Grass	2 gal	11
H	<i>Hemerocallis x Stella de Oro</i> / Stella de Oro Daylily	1 gal	10
HS	<i>Hesperis matronalis</i> / Blue Owl Grass	1 gal	14
JG	<i>Juncus setacea</i> "Buffalo" / Buffalo Juniper	3 gal	12
JG	<i>Juncus x altissimus</i> "Gold Coast" / Gold Coast Juniper	3 gal	12
ML	<i>Miscanthus sinensis</i> "Little Zebra" / Silver Grass	1 gal	20
ML	<i>Miscanthus capillaris</i> "Limbo" / Royal Hot Pink Puffin	5 gal	1
MH	<i>Miscanthus sinensis</i> "Morning Light" / Eureka Grass	3 gal	17
MT	<i>Miscanthus sinensis</i> "Pony Tail" / Mexican Feathergrass	1 gal	14
PE	<i>Pennisetum setaceum</i> / Firecracker Pennisetum	1 gal	16
PH	<i>Panicum oligosperum</i> "Hamato" / Hamato Dwarf Fountain Grass	3 gal	10
PF	<i>Pine pungens</i> "Globose" / Dwarf Globe Blue Spruce	1 gal	1
PS	<i>Panicum virgatum</i> "Shenandoah" / Switch Grass	2 gal	14
SP	<i>Spiraea x bumalda</i> "Goldflame" / Goldflame Spiraea	2 gal	14
SS	<i>Salix graggii</i> "Furnace Red" / Furnace Red Salix	3 gal	11
WT	<i>Wisteria florida</i> "Dark Horse" / Dark Horse Wisteria	2 gal	15
YF	<i>Yucca filamentosa</i> "Bright Edge" / Adam & Eve's	2 gal	1

PLANT QUANTITY NOTE: CONTRACTOR SHALL VERIFY QUANTITIES IN PLANT LEGEND WITH PLANT SYMBOLS ON PLANS

PLANT CALLOUTS

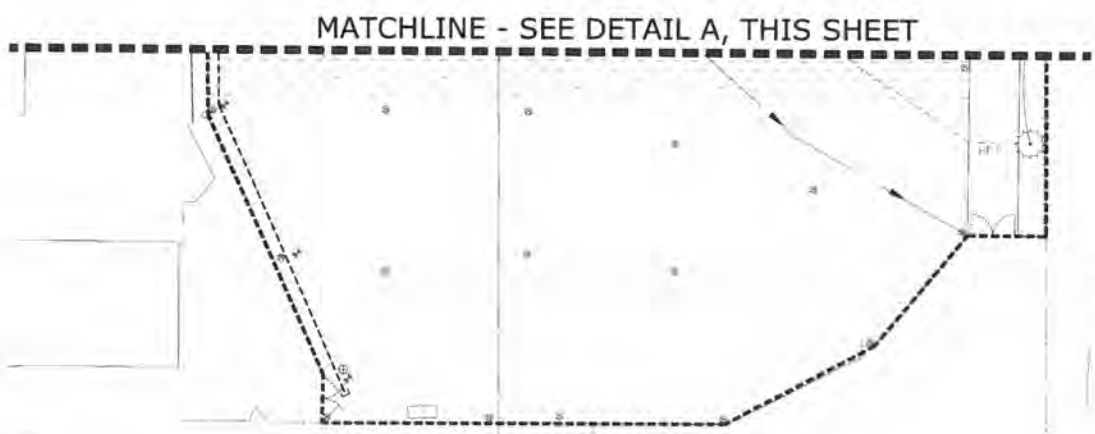
- XX - PLANT ABBREVIATION
- XX - NUMBER OF PLANTS
- EX - EXISTING

PLANTING NOTES

- 1 TREES AND SHRUBS TO MEET REQUIREMENTS OF AMERICAN STANDARD FOR NURSERY STOCK FOR SIZE AND MATERIAL CONDITION.
- 2 ALL PLANTING AREAS TO RECEIVE 6" OF TYPE A PLANTING SOIL.
- 3 INSTALL 2" OF MINERAL MULCH WITH PRE-EMERGENT IN ALL PLANTING AREAS.
- 4 ALL TURF AREAS TO RECEIVE 4" OF TYPE A PLANTING SOIL PRIOR TO SEEDING. FILL INTO EXISTING SOIL.
- 5 ALL TOPSOIL ON SITE TO BE STOCKPILED FOR REUSE IN TURF AND PLANTING AREAS.
- 6 TREE LOCATIONS MAY VARY DEPENDING ON WALK, DRAINWAY, AND UTILITY LOCATIONS.
- 7 DO NOT CONTACT BOTTOMS OF SWALES. PROTECT SWALES FROM CONSTRUCTION TRAFFIC AND DEMOS.
- 8 ALL TREES TO BE SINGLE TRUNKED, UNLESS OTHERWISE NOTED. MULTI-TRUNKED TREES TO INCLUDE MAIN LEADER EQUAL OR GREATER TO SIZE SPECIFIED.
- 9 TREES SHALL BE MATCHED FROM SAME LOT.
- 10 FRESH GRADE TO BE: PLANTING AREAS: 2" BELOW ADJACENT WALKS OR HARDSCAPE ELEMENTS. TURF AREAS: 2" BELOW ADJACENT WALKS OR HARDSCAPE ELEMENTS. MULCH AREAS: 2" BELOW ADJACENT WALKS OR HARDSCAPE ELEMENTS.

CONSTRUCTION NOTES

- 1 CALL LOCATE 2 WORKING DAYS BEFORE YOU DIG (811). ALL UTILITIES & STRUCTURES ARE NOT SHOWN. THE LOCATION OF THOSE SHOWN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY BOTH UNDERGROUND AND ABOVE GROUND EXISTING CONDITIONS. NOTIFY LANDSCAPE ARCHITECT FOR RESOLUTION AND MAKE MINOR CHANGES TO NEW CONSTRUCTION AT NO COST TO THE OWNER.
- 2 CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES ON SITE, WITHIN CONSTRUCTION DISTURBANCE ZONE AFTER UTILITY METERS AND PUBLIC CONNECTIONS.
- 3 CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFYING THE OWNER AND OWNERS REPRESENTATIVES OF DISCREPANCIES.
- 4 PRESERVE AND PROTECT ALL IMPROVEMENTS TO REMAIN.
- 5 THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION AND SERVICES NECESSARY TO COMPLETE THE CONSTRUCTION SHOWN ON THE DRAWINGS.
- 6 PRESERVE AND PROTECT EXISTING HARDSCAPE TO REMAIN.



B PLANTING PLAN



MICHAEL TERRELL - LANDSCAPE ARCHITECTURE, PLLC
1421 N. MEADOWWOOD LANE, SUITE 150
LIBERTY LAKE, WA 99019
PHONE (360) 922-7449

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

PRELIMINARY - NOT FOR CONSTRUCTION

REVISIONS

90% CONSTRUCTION DOCUMENTS



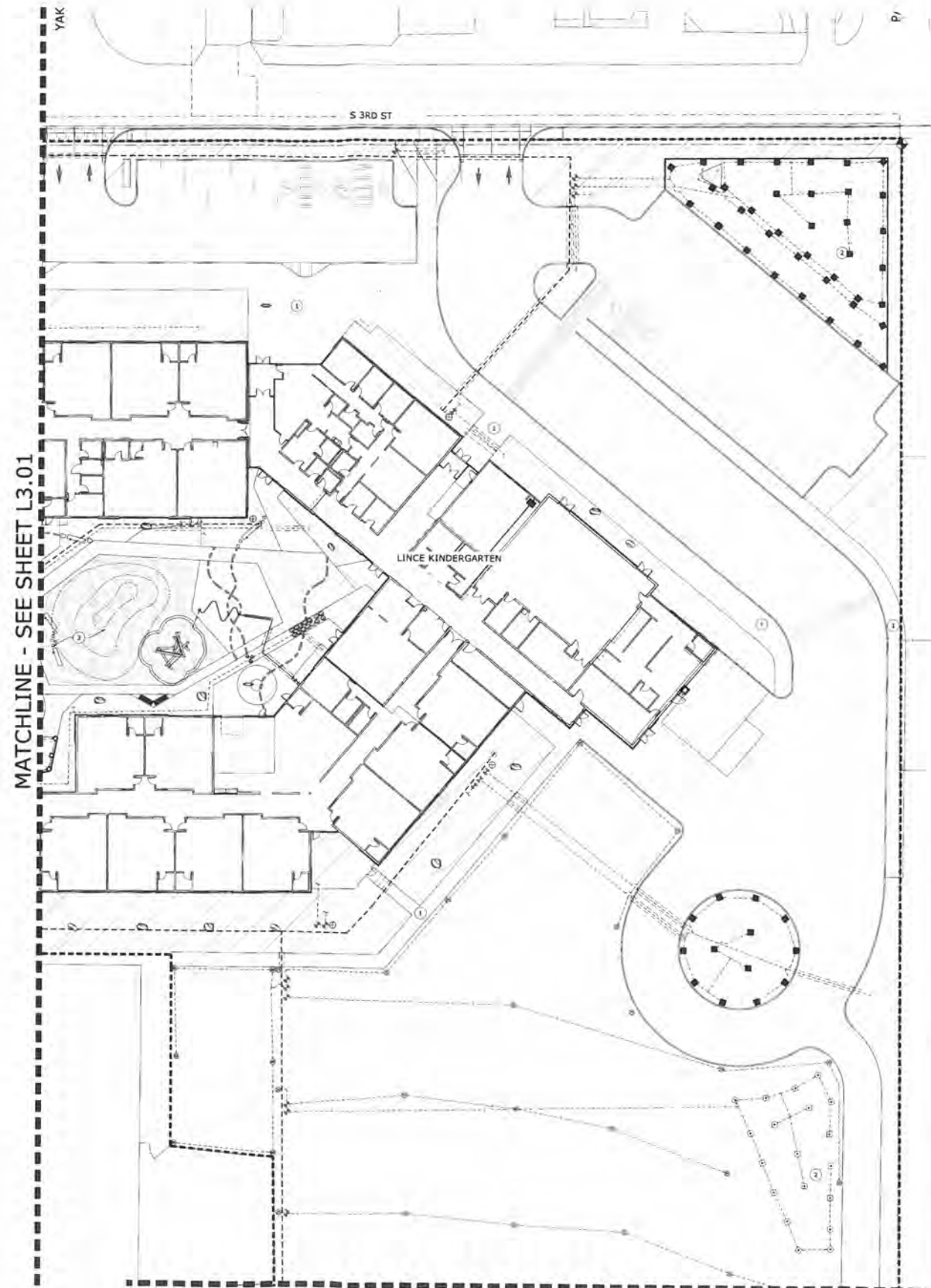
NAC ARCHITECTURE
111-18010
12-26-2018

SELAH SCHOOL DISTRICT NO. 119
LINCE KINDERGARTEN
110 N. WARDEN AVE. CLALLAM WA 98222

NAC ARCHITECTURE
111-18010
12-26-2018

LANDSCAPE PLAN

L4.02



MATCHLINE - SEE SHEET L3.01

A IRRIGATION PLAN

MATCHLINE - SEE DETAIL B, THIS SHEET

CALLOUTS

- ① Hardscape: See Architectural Drawings
- ② Driveway: See Civil Drawings
- ③ Courtyard: See Sheet L3.01

LEGEND

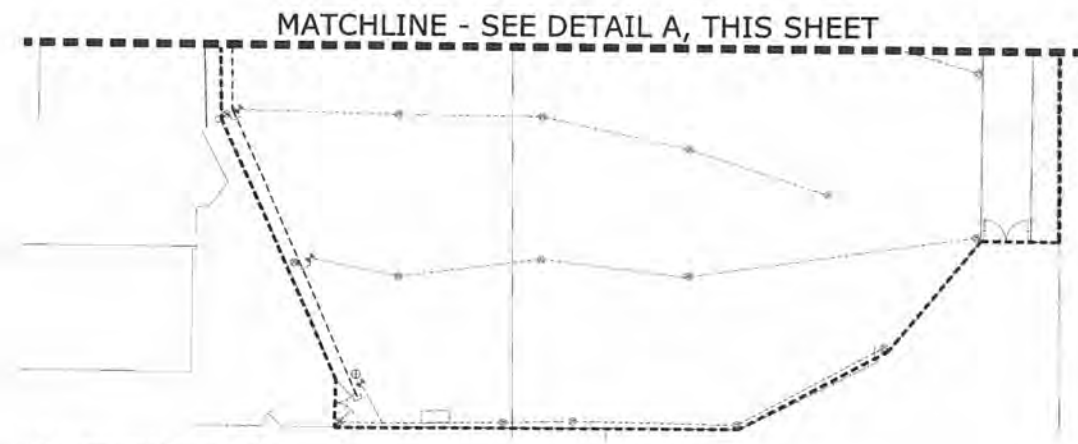
- Sodded Turfgrass with Automatic Overhead Irrigation
- Hydroseeded Turfgrass with Automatic Overhead Irrigation
- Existing Turfgrass and Irrigation Repair
- Planting Area Planting Soil, Type 1 Mineral Mulch, 2" Depth with Drip Irrigation
- Synthetic Turf Safety Surfacing
- Integral Color Concrete
- Concrete Monocure
- - - Limit of Work

IRRIGATION LEGEND

- Turfgrass with Automatic Overhead Irrigation
- Existing Turfgrass and Irrigation Repair
- Planter Bed with Rainbird 1800 Bubbler Irrigation 1 Planter Bed with Rainbird 1800 Bubbler Irrigation 1 Bubbler per 1.2 Gal. Plant, 2 per 3 Gal. Plant, 3 per 5 Gal. Plant
- Planter Bed with Drip Irrigation
- Hunter 174 ProS-D4-PR40 4" Pop-Up Sprinkler, 40 PSI, 0.52 (Full/Adj), 2.76 (Half), 1.38 (Quarter), 17' Rad, Design Spacing: 14'
- Hunter 154 ProS-D4-PR40 4" Pop-Up Sprinkler, 40 PSI, 4.52 (Full/Adj), 2.26 (Half), 1.13 (Quarter), 15' Rad, Design Spacing: 12'
- Hunter 104 ProS-D4-PR40 4" Pop-Up Sprinkler, 40 PSI, 2.36 (Full/Adj), 1.18 (Half), .59 (Quarter), 10' Rad, Design Spacing: 8'
- Hunter I-25-06-SL Nozzle 3/8, 60 PSI, 9.2 GPM, 50' Rad, Design Spacing: 40'
- Hunter I-25-06-SL Nozzle 1/2, 60 PSI, 11.1 GPM, 52' Rad, Design Spacing: 42'
- Hunter I-25-06-SL Nozzle 25, 60 PSI, 23.5 GPM, 66' Rad, Design Spacing: 52.8'
- Hunter Root Watering Zone System, 2 per tree, 18" Depth, 25 GPM
- ⊕ Automatic Control Valve - Size as shown, globe. All valves to be Rainbird per valve and installed with DC latching solenoid decoders.
- ⊕ Rainbird 44-LIC Quick Coupler in 10" Round Valve Box - See Sheet L3.01, Detail F.
- ⊕ Isolation Valve, Line Size, See Sheet L3.01, Detail F.
- ⊕ Watts LF705 Double Check Backflow Prevention, 4"
- ⊕ Surge Protection, Install Ground Rods and 24" Loop of Additional Spare Wire Path in 10" Round Valve Box.
- - - Mainline - Schedule 40 PVC - 2" Unless Otherwise Noted.
- - - Lateral Line - Schedule 40 PVC - 1" Unless Otherwise Noted.
- - - Control Wire in Conduit, Control Wire to be in Sleeve Separately, 2" Schedule 40 PVC.
- - - Pipe Sleeve - Schedule 40 PVC, See Irrigation Notes for Sizing.
- - - Mainline Cap, See Sheet L3.01, Detail J.
- ⊕ Denotes Bubbler Valve
- ⊕ Valve No.
- ⊕ Valve Size
- ⊕ GPM

IRRIGATION NOTES

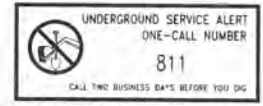
1. CALL LOCATE 2 WORKING DAYS BEFORE YOU DIG (B11). ALL UTILITIES & STRUCTURES ARE NOT SHOWN. THE LOCATION OF THOSE SHOWN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY BOTH UNDERGROUND AND ABOVE GROUND EXISTING CONDITIONS. NOTIFY LANDSCAPE ARCHITECT FOR RESOLUTION AND MAKE MINOR CHANGES TO NEW CONSTRUCTION AT NO COST TO THE OWNER.
2. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES ON SITE, WITHIN CONSTRUCTION DISTURBANCE ZONE AFTER UTILITY METERS AND PUBLIC CONNECTIONS.
3. EXISTING IRRIGATION LAYOUT IS SCHEMATIC. CONDITIONS MUST BE VERIFIED IN THE FIELD.
4. IRRIGATION LAYOUT IS SCHEMATIC. EXISTING IRRIGATION CONDITIONS MUST BE VERIFIED IN THE FIELD. ALL VALVES SHALL BE PLACED IN LANDSCAPE AREAS, IN PLANTERS WHEN POSSIBLE, AND ALL FITTING TO BE IN TURF AREAS WHEN POSSIBLE.
5. ALL MAINLINE PIPING AND CONTROL WIRES UNDER PAVING SHALL BE INSTALLED IN SEPARATE SLEEVES. MAIN LINE AND LATERAL LINE SLEEVE SIZES SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEAVED. CONTROL WIRE SLEEVES SHALL BE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES UNDER PAVING.
6. CONTRACTOR TO INSTALL THROAT BLOODES AT MAINLINE CHANGES OF DIRECTION FOR PIPE 3" AND LARGER.
7. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR SIZING AND CORRECTLY INSTALLING ALL PIPE. VELOCITIES SHALL NOT EXCEED 5 FEET PER SECOND. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF REJECTION.
8. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.
9. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE WITH MINIMAL OVER SPrAY ONTO WALKS, STREETS, WALLS, ETC. AND PROVIDE A METHOD OF WINTERIZING THE ENTIRE SYSTEM.
10. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS IN ADHERENCE TO LOCAL CODES.
11. INSTALL ALL VALVE BOXES PERPENDICULAR TO ADJACENT FENCES, WALKS, AND BUILDINGS.
12. CONTRACTOR TO ENSURE 100% HEAD TO HEAD COVERAGE, ADJUST SPRINKLER HEADS ACCORDINGLY.
13. INSTALL ALL BACKFLOW PREVENTION DEVICES AND ALL FITTING BETWEEN THE POINT OF CONNECTION AND THE BACK FLOW PREVENTER PER LOCAL CODES. SEE CIVIL ENGINEERING PLANS.
14. INSTALL LIGHTNING GROUNDING PER MANUFACTURER'S SPECIFICATIONS.
15. CONNECT NEW IRRIGATION SYSTEM TO EXISTING TORO CONTROLLER. IRRIGATION SYSTEM TO BE INSTALLED AS A 2-WIRE SYSTEM.



B IRRIGATION PLAN



MICHAEL TERRELL - LANDSCAPE ARCHITECTURE, PLLC
 1421 N. MEADOWWOOD LANE, SUITE 150
 LIBERTY LAKE, WA 99019
 PHONE (509) 922-1499



PRELIMINARY - NOT FOR CONSTRUCTION

REVISIONS

90% CONSTRUCTION DOCUMENTS



SELAH SCHOOL DISTRICT NO. 119
LINCE KINDERGARTEN
 1110 W. HAZEL AVENUE, SELAH, WA 99177

NAC
 ARCHITECTURE
 nacarchitecture.com
 100 WEST WASHINGTON AVE. SUITE 100
 SEASIDE, WA 98138
 TEL: 360-881-1800
 FAX: 360-881-1801
 WWW: nacarch.com

IRRIGATION PLAN

L3.02

CALLOUTS

- 1 EMERGENCY VEHICLE ACCESS. SEE ARCHITECTURAL DRAWINGS.
- 2 BENCHES. SEE SPECIFICATIONS.
- 3 BASKETBALL HOOP. SEE SPECIFICATIONS.
- 4 BANNING 4 REGULAR 2 ADA.
- 5 TRIKE PATH WITH TRIKE PATH SIGNS: T1-STOP SIGN, T2-YIELD SIGN, T3-SCHOOL ZONE, T4-RAILROAD CROSSING. SEE SPECIFICATIONS.
- 6 NATURAL STEPPING STONE. SEE SHEET L1.02 DETAIL C.
- 7 PLAY EQUIPMENT TYPE B. LYNN LOG JAM STRUCTURES. SEE SPECIFICATIONS.
- 8 PLAY EQUIPMENT TYPE C. NATURAL LOG ELEMENTS. SEE SPECIFICATIONS.
- 9 PLAY EQUIPMENT TYPE D. BOULDER ELEMENTS. SEE SPECIFICATIONS.
- 10 PLAY EQUIPMENT TYPE E. INTERACTIVE PLAY WATER FEATURE. SEE SPECIFICATIONS.
- 11 FOSDILE. SEE SPECIFICATIONS.
- 12 POTABLE WATER TO INTERACTIVE PLAY FEATURE. 3/4" OCVB INSTALLED IN VALVE BOX WITH 1" DIAMETER PVC SERVICE PIPE. 2" DIAMETER PVC SLEEVE UNDER CONCRETE.
- 13 8" ROUND DRAINAGE BASIN WITH IRON AGE LOCUST 8" DIAMETER DRAIN GRATE.
- 14 4" SOLID SCHEDULE 40 PVC DRAIN PIPE TO DRYWELL.

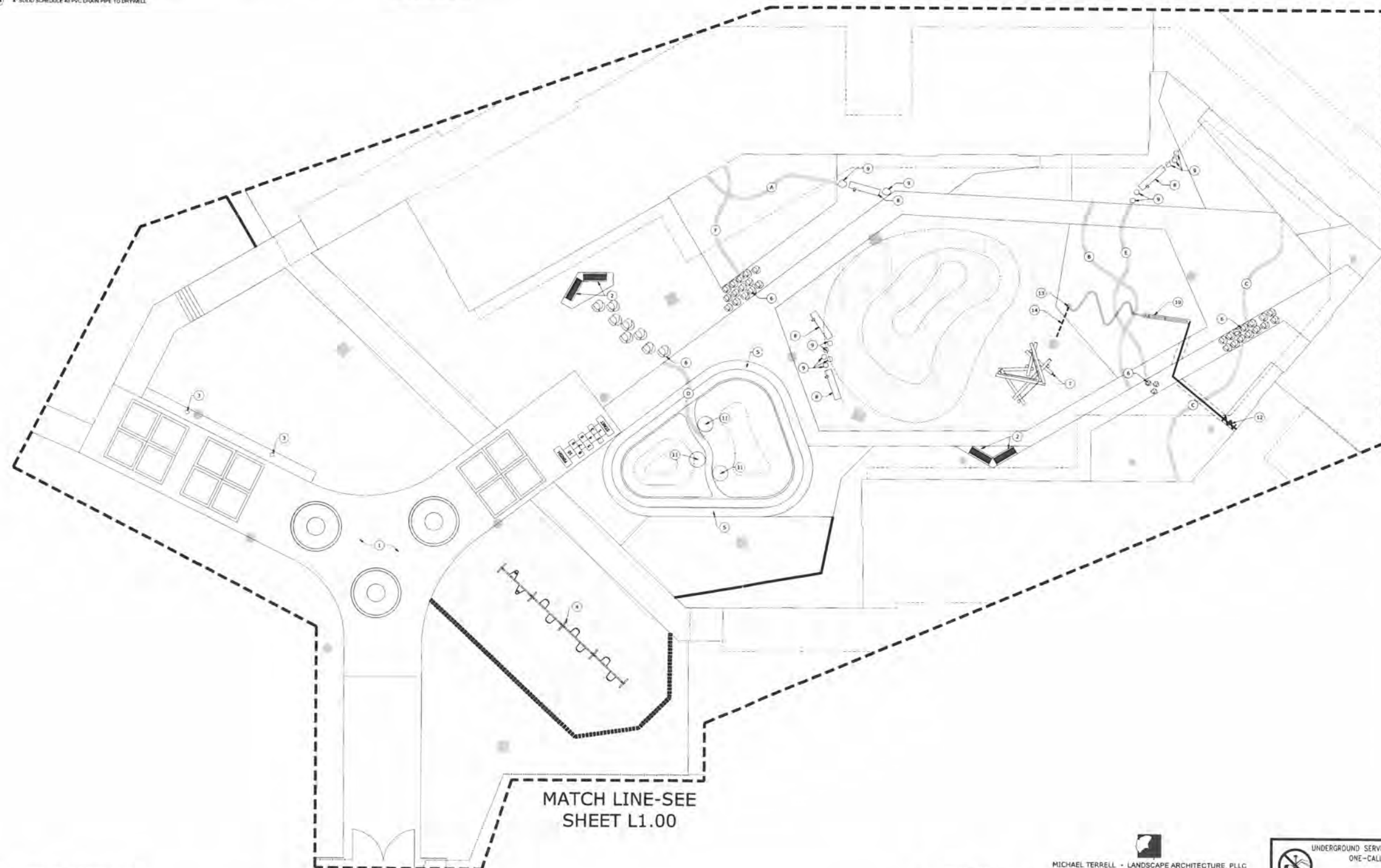
LEGEND

- CONCRETE WALK: REFER TO ARCHITECTURAL AND SECTION 32.33.13
- DECORATIVE CONCRETE WALK: INTEGRAL COLOR CONCRETE, ACID WASH FINISH: REFER TO ARCHITECTURAL AND SECTION 32.33.15
- TURF GRASS WITH AUTOMATIC OVERHEAD IRRIGATION
- PLANTER BED WITH 6" PLANTING SOIL TYPE X
- SYNTHETIC TURF SAFETY SURFACING
- SAFETY SURFACING CONTAINMENT CURB
- 6" CONCRETE MONOCURB
- DRYWELL. SEE CIVIL DRAWINGS.
- CATCH BASIN. SEE CIVIL DRAWINGS.
- ANIMAL TRACKS CONCRETE STAMP. NUMBER IDENTIFIES ANIMAL TRACK STAMP. REFER TO SECTION 32.33.16.
 - TYPE A: BALD EAGLE STAMP, SET OF TWO
 - TYPE B: BEAR STAMP, SET OF FOUR
 - TYPE C: COYOTE, SET OF FOUR
 - TYPE D: DUCK, SET OF TWO
 - TYPE E: DEER, SET OF FOUR
 - TYPE F: ELEPHANT, SET OF TWO

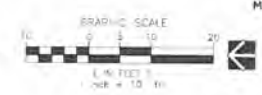
CONSTRUCTION NOTES

1. CONTRACTOR SHALL CALL 811 TO LOCATE ALL EXISTING ABOVE OR BELOW GRADE ON-SITE UTILITIES PRIOR TO COMMENCEMENT OF WORK, INCLUDING PLANTING. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. PRESERVE AND PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE OR DISRUPTION. TYPICAL. MAINTAIN LOCATES DURING CONSTRUCTION FOR REFERENCE. CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. CONTRACTOR TO COORDINATE WITH OWNER'S MAINTENANCE PERSONNEL TO IDENTIFY AND PROTECT ANY EXISTING OWNER MAINTAINED UTILITIES, WATER LINES, IRRIGATION LINES, IRRIGATION CONTROL WIRES OR OTHER IMPROVEMENTS PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO COORDINATE UTILITY WORK, SLEEVES AND IRRIGATION INSTALLATION TO AVOID CONFLICTS BETWEEN UTILITIES, IRRIGATION EQUIPMENT AND THE PLACEMENT OF TREES, SHRUBS AND LANDSCAPE EDGING/MONOCURBS.
4. THE INFORMATION ON THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE CORRESPONDING SPECIFICATION SECTIONS AND DETAILS DEVELOPED FOR THIS PROJECT. REFER TO THOSE SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
5. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFYING THE OWNER AND OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
6. CONTRACTOR TO COORDINATE THESE PLANS WITH CIVIL, ELECTRICAL AND ARCHITECTURAL PLANS. IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS BETWEEN PLANS ARE IDENTIFIED OR IF ADDITIONAL INFORMATION OR CLARIFICATION IS REQUIRED FOR COORDINATION.
7. PRESERVE AND PROTECT EXISTING IMPROVEMENTS TO REMAIN. REPAIR OR REPLACE ALL CURBS AND WALKS DAMAGED DURING CONSTRUCTION.
8. LAYOUT AND EXTENT OF EXCAVATION TO BE STAKED AND REVIEWED IN THE FIELD BY LANDSCAPE ARCHITECT AND/OR OWNER.
9. LIABLE FOR ENCROACHMENT: THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND UNDERSTANDING THE LIMITS OF WORK. CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION OF ENCROACHMENT ONTO ADJACENT PROPERTY, RIGHTS-OF-WAY, EASEMENTS, SET-BACKS, OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED.

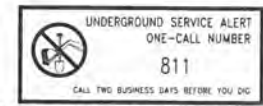
MATCH LINE-SEE SHEET L1.00



A COURTYARD PLAN



MICHAEL TERRELL - LANDSCAPE ARCHITECTURE, PLLC
 1421 N. MEADOWWOOD LANE, SUITE 150
 LIBERTY LAKE, WA 99019
 PHONE (509) 922-7449



PRELIMINARY - NOT FOR CONSTRUCTION

REVISIONS

90% CONSTRUCTION DOCUMENTS

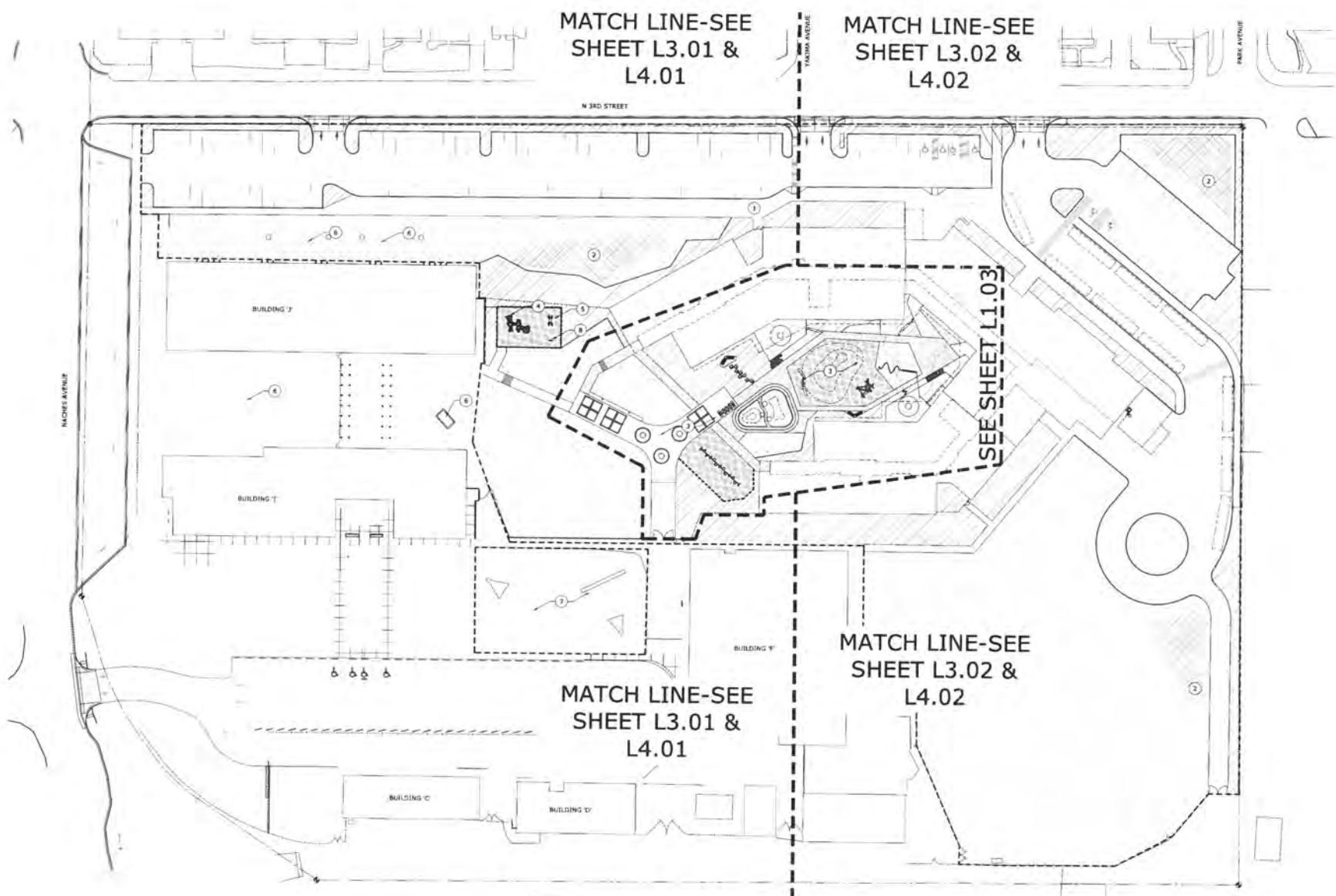


SELAH SCHOOL DISTRICT NO. 119
LINCE KINDERGARTEN
 114 W. HAZEL AVE. SELAH, WA 99136

NAC
 ARCHITECTURE
 1111 180TH AVE. SUITE 100
 LIBERTY LAKE, WA 99019
 PHONE: 509-922-7449
 FAX: 509-922-7448
 WWW.NACARCHITECTURE.COM

COURTYARD PLAN

L1.03



CALLOUTS

- 1 HARDSCAPE SEE ARCHITECTURAL DRAWINGS
- 2 SWALE SEE CIVIL DRAWINGS FOR SOIL TYPE
- 3 COURTYARD SEE SHEET L4.05
- 4 RELOCATED PLAYGROUND
- 5 PLAY EQUIPMENT TYPE A QUATTRO SEESAWS SEE SPECIFICATIONS
- 6 EXISTING TREE PRESERVE AND PROTECT
- 7 BASE BD. DRAIN INSTALLATION SEE CIVIL DRAWINGS FOR SOILS REPAIR LANDSCAPE AND IRRIGATION ALTERNATE #1 SWALE RESTORATION SEE SHEET L3.01 & L4.01 AND SPECIFICATIONS
- 8 PLAY EQUIPMENT TYPE F BELL PANEL SEE SPECIFICATIONS

LEGEND

- TYPE 'A' PLANTING SOIL 4" DEPTH TURFGRASS SOO WITH AUTOMATIC OVERHEAD IRRIGATION
- TYPE 'A' PLANTING SOIL 4" DEPTH HYDROSEEDED TURFGRASS WITH AUTOMATIC OVERHEAD IRRIGATION
- EXISTING TURF GRASS AND IRRIGATION REPAIR
- TYPE 'A' PLANTING SOIL 8" DEPTH TYPE 1 MINERAL MULCH 2" DEPTH PLANTING AREA PLANTING SOIL WITH BUBBLER IRRIGATION
- SWALE SEE CIVIL DRAWINGS FOR SOIL TYPE TURFGRASS WITH OVERHEAD IRRIGATION
- CONCRETE WALK REFER TO ARCHITECTURAL AND SECTION 32 13 13
- DECORATIVE CONCRETE WALK INTERIOR COLOR CONCRETE ACID WASH FINISH REFER TO ARCHITECTURAL AND SECTION 32 13 16
- SYNTHETIC TURF SAFETY SURFACING
- SAFETY SURFACING CONTAINMENT CURB
- 6" CONCRETE MONOCURB
- ANIMAL TRACKS CONCRETE STAMP NUMBER IDENTIFYS ANIMAL TRACK STAMP REFER TO SECTION 32 13 16
- LIMIT OF WORK

CONSTRUCTION NOTES

1. CONTRACTOR SHALL CALL 811 TO LOCATE ALL EXISTING ABOVE OR BELOW GRADE ON-SITE UTILITIES PRIOR TO COMMENCEMENT OF WORK INCLUDING PLANTING. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. PRESERVE AND PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE OR DISRUPTION. TYPICAL MAINTAIN LOCATIONS DURING CONSTRUCTION FOR REFERENCE. CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. CONTRACTOR TO COORDINATE WITH OWNER'S MAINTENANCE PERSONNEL TO IDENTIFY AND PROTECT ANY EXISTING OWNERS MAINTAINED UTILITIES, WATER LINES, IRRIGATION LINES, IRRIGATION CONTROL WIRES OR OTHER IMPROVEMENTS PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO COORDINATE UTILITY WORK, SLEWS AND BRIDGATION INSTALLATION TO AVOID CONFLICTS BETWEEN UTILITIES, IRRIGATION EQUIPMENT AND THE PLACEMENT OF TREES, SHRUBS AND LANDSCAPE EDGING/MONOCURBS.
4. THE INFORMATION ON THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE CORRESPONDING SPECIFICATION SECTIONS AND DETAILS DEVELOPED FOR THIS PROJECT. REFER TO THOSE SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
5. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFYING THE OWNER AND OWNER'S REPRESENTATIVES OF ANY DISCREPANCIES.
6. CONTRACTOR TO COORDINATE THESE PLANS WITH CIVIL, ELECTRICAL AND ARCHITECTURAL PLANS. IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS BETWEEN PLANS ARE IDENTIFIED OR IF ADDITIONAL INFORMATION OR CLARIFICATION IS REQUIRED FOR COORDINATION.
7. PRESERVE AND PROTECT EXISTING IMPROVEMENTS TO REMAIN. REPAIR OR REPLACE ALL CURBS AND WALKS DAMAGED DURING CONSTRUCTION.
8. LAYOUT AND EXTENT OF EXCAVATION TO BE STAKED AND REVIEWED IN THE FIELD BY LANDSCAPE ARCHITECT AND/OR OWNER.
9. LIABLE FOR ENCROACHMENTS THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND UNDERSTANDING THE LIMITS OF WORK. CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION OF ENCROACHMENT ONTO ADJACENT PROPERTY, RIGHTS-OF-WAY, EASEMENTS, SET-BACKS, OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED.
10. PLANTING SOIL SCHEDULE (SEE SPECIFICATIONS):
 - a. HYDROSEEDED LAWN AREAS: 4" OF APPROVED PLANTING SOIL TYPE 'A'
 - b. SOODED LAWN AREAS: 4" OF APPROVED PLANTING SOIL TYPE 'A'
 - c. PLANTING AREAS: 6" OF APPROVED PLANTING SOIL TYPE 'A'

REVISIONS

90% CONSTRUCTION DOCUMENTS



Received
 JAN 8 2018
 By [Signature]
 City of Selah
 Planning Dept.

SELAH SCHOOL DISTRICT NO. 119
 LINCE KINDERGARTEN
 115 WOODSIDE AVE. SELAH, WA 98242



NO. 111-18010
 DATE: JCS
 DATE: MET
 DATE: 12-20-2018

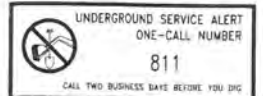
CONSTRUCTION AND SOILS PLAN

L1.00

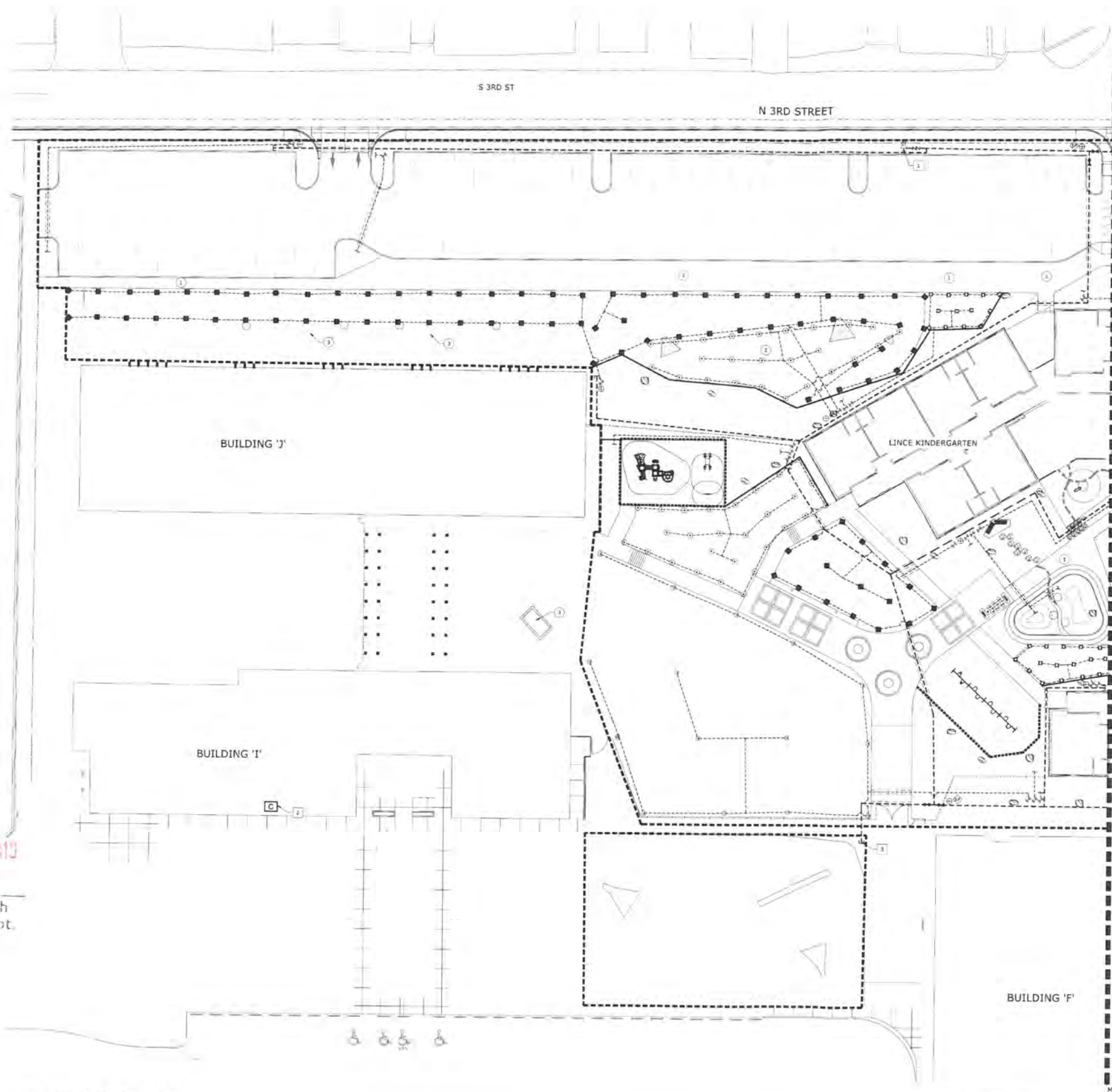
A CONSTRUCTION AND SOILS PLAN



MICHAEL TERRELL - LANDSCAPE ARCHITECTURE, PLLC
 1421 N. MEADOWWOOD LANE, SUITE 150
 LIBERTY LAKE, WA 99019
 PHONE (509) 922-7449



PRELIMINARY - NOT FOR CONSTRUCTION



CALLOUTS

- 1 HARDSCAPE SEE ARCHITECTURAL DRAWINGS
- 2 SWALE SEE CIVIL DRAWINGS
- 3 EXISTING TREE PRESERVE AND PROTECT SEE SHEET L3.02 DETAIL X

IRRIGATION CALLOUTS

- 1 RELOCATED IRRIGATION POINT OF CONNECTION SEE CIVIL
- 2 EXISTING IRRIGATION CONTROLLER TORO SENTINEL TWO-WIRE CONTROLLER VERIFY LOCATION
- 3 RECONNECT TO EXISTING MAINLINE VERIFY LOCATION IN THE FIELD CONNECT NEW TWO-WIRE TO EXISTING TWO-WIRE PATH

LEGEND

- SCOOLED TURF GRASS
- EXISTING TURF GRASS AND IRRIGATION REPAIR
- PLANTING AREA PLANTING SOIL TYPE 1 MINERAL MULCH 2" DEPTH
- SYNTHETIC TURF SAFETY SURFACING
- INTRINSAL COLOR CONCRETE
- SAFETY SURFACING CONTAINMENT CURB
- 6" CONCRETE MOWCURE
- LIMIT OF WORK

IRRIGATION LEGEND

- PLANTER BED WITH HANDBIRD 180 BURLEIR IRRIGATION 1 BUBBLER PER 1/2 GAL PLANT 2 PER 3 GAL PLANT 3 PER 5 GAL PLANT
- PLANTER BED WITH DRIP IRRIGATION
- EXISTING CONTROLLER
 - HUNTER 17A PROS-04-PS40 6" POP-UP SPRINKLER, 40 PSI, 5.52 (FULLLOAD), 2.78 (HALF), 1.38 (QUARTER), 17' RAD, DESIGN SPACING: 14'
 - HUNTER 15A PROS-04-PS40 6" POP-UP SPRINKLER, 40 PSI, 4.52 (FULLLOAD), 2.26 (HALF), 1.13 (QUARTER), 15' RAD, DESIGN SPACING: 12'
 - HUNTER 13A PROS-04-PS40 6" POP-UP SPRINKLER, 40 PSI, 2.38 (FULLLOAD), 1.18 (HALF), 59 (QUARTER), 10' RAD, DESIGN SPACING: 8'
 - HUNTER 1 25-05-55 NOZZLE R, 80 PSI, 9.2 GPM, 50' RAD, DESIGN SPACING: 45'
 - HUNTER 1 25-05-55 NOZZLE R, 80 PSI, 11.1 GPM, 52' RAD, DESIGN SPACING: 42'
 - HUNTER 1 25-05-55 NOZZLE R, 80 PSI, 23.5 GPM, 88' RAD, DESIGN SPACING: 52.8'
 - HUNTER ROOT WATERING ZONE SYSTEM 2 PER TREE, 18" DEPTH, 25 GPM
 - AUTOMATIC CONTROL VALVE - SIZE AS SHOWN, GLOBE, ALL VALVES TO BE HANDBIRD PER VALVE AND INSTALLED WITH DC LATCHING SOLENOID DECODERS
 - HANDBIRD 44-LRC QUICK COUPLER IN 10" ROUND VALVE BOX SEE SHEET L3.02, DETAIL E
 - ISOLATION VALVE - LINE SIZE, SEE SHEET L3.02, DETAIL F
 - WATTS LF709 DOUBLE CHECK BACKFLOW PREVENTION, 4"
 - SURGE PROTECTION - INSTALL GROUND RODS AND 24" LOOP OF ADDITIONAL SPARE WIRE PATH IN 1/2" ROUND VALVE BOX
 - MAINLINE - SCHEDULE 40 PVC - 2" UNLESS OTHERWISE NOTED
 - LATERAL LINE - SCHEDULE 40 PVC - 1" UNLESS OTHERWISE NOTED
 - CONTROL WIRE IN CONDUIT, CONTROL WIRE TO BE IN SLEEVE SEPARATELY - 2" SCHEDULE 40 PVC
 - PIPE SLEEVE - SCHEDULE 40 PVC, SEE IRRIGATION NOTES FOR SIZING
 - MAINLINE CAP. SEE SHEET L3.02, DETAIL I
 - B DENOTES BUBBLER VALVE
 - VALVE NG
 - VALVE SIZE
 - GPM

IRRIGATION NOTES

- 1 CALL LOCATE 2 WORKING DAYS BEFORE YOU DIG (B11). ALL UTILITIES & STRUCTURES ARE NOT SHOWN. THE LOCATION OF THOSE SHOWN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY BOTH UNDERGROUND AND ABOVE GROUND EXISTING CONDITIONS. NOTIFY LANDSCAPE ARCHITECT FOR RESOLUTION AND MAKE MINOR CHANGES TO NEW CONSTRUCTION AT NO COST TO THE OWNER.
- 2 CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES ON-SITE, WITHIN CONSTRUCTION DISTURBANCE ZONE AFTER UTILITY METERS AND PUBLIC CONNECTIONS.
- 3 EXISTING IRRIGATION LAYOUT IS SCHEMATIC, CONDITIONS MUST BE VERIFIED IN THE FIELD.
- 4 IRRIGATION LAYOUT IS SCHEMATIC, EXISTING IRRIGATION CONDITIONS MUST BE VERIFIED IN THE FIELD. ALL VALVES SHALL BE PLACED IN LANDSCAPE AREAS, IN PLANTERS WHEN POSSIBLE, AND ALL PIPING TO BE IN TURF AREAS, WHEN POSSIBLE.
- 5 ALL MAIN LINE PIPING AND CONTROL WIRES UNDER PAVING SHALL BE INSTALLED IN SEPARATE SLEEVES. MAIN LINE AND LATERAL LINE SLEEVE SIZES SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEEVED. CONTROL WIRE SLEEVES SHALL BE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES UNDER PAVING.
- 6 CONTRACTOR TO INSTALL THRUST BLOCKING AT MAINLINE CHANGES OF DIRECTION FOR PIPE 1" AND LARGER.
- 7 THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR SIZING AND CORRECTLY INSTALLING ALL PIPE. VELOCITIES SHALL NOT EXCEED 5 FEET PER SECOND. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF REJECTION.
- 8 ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.
- 9 THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE WITH MINIMAL OVER SPRAY ONTO WALKS, STREETS, WALLS, ETC. AND PROVIDE A METHOD OF WINTERIZING THE ENTIRE SYSTEM.
- 10 ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS OR ADHERING TO LOCAL CODES.
- 11 INSTALL ALL VALVE BOXES PERPENDICULAR TO ADJACENT FENCES, WALKS, AND BUILDINGS.
- 12 CONTRACTOR TO ENSURE 300N HEAD TO HEAD COVERAGE, ADJUST SPRINKLER HEADS ACCORDINGLY.
- 13 INSTALL ALL BACK-FLOW PREVENTION DEVICES AND ALL PIPING BETWEEN THE POINT OF CONNECTION AND THE BACK FLOW PREVENTER PER LOCAL CODES. SEE CIVIL ENGINEERING PLANS.
- 14 INSTALL LIGHTNING GROUNDING PER MANUFACTURER'S SPECIFICATIONS.
- 15 CONNECT NEW IRRIGATION SYSTEM TO EXISTING TORO CONTROLLER. IRRIGATION SYSTEM TO BE INSTALLED AS A 2-WIRE SYSTEM.

Received
 JAN 23 2013
 By *JP*
 City of Selah
 Planning Dept.

A IRRIGATION PLAN



MICHAEL TERRELL - LANDSCAPE ARCHITECTURE, PLLC
 1421 N. MEADOWWOOD LANE, SUITE 150
 LIBERTY LAKE, WA 99019
 PHONE (509) 922-7449



PRELIMINARY - NOT FOR CONSTRUCTION

REVISIONS

90% CONSTRUCTION DOCUMENTS

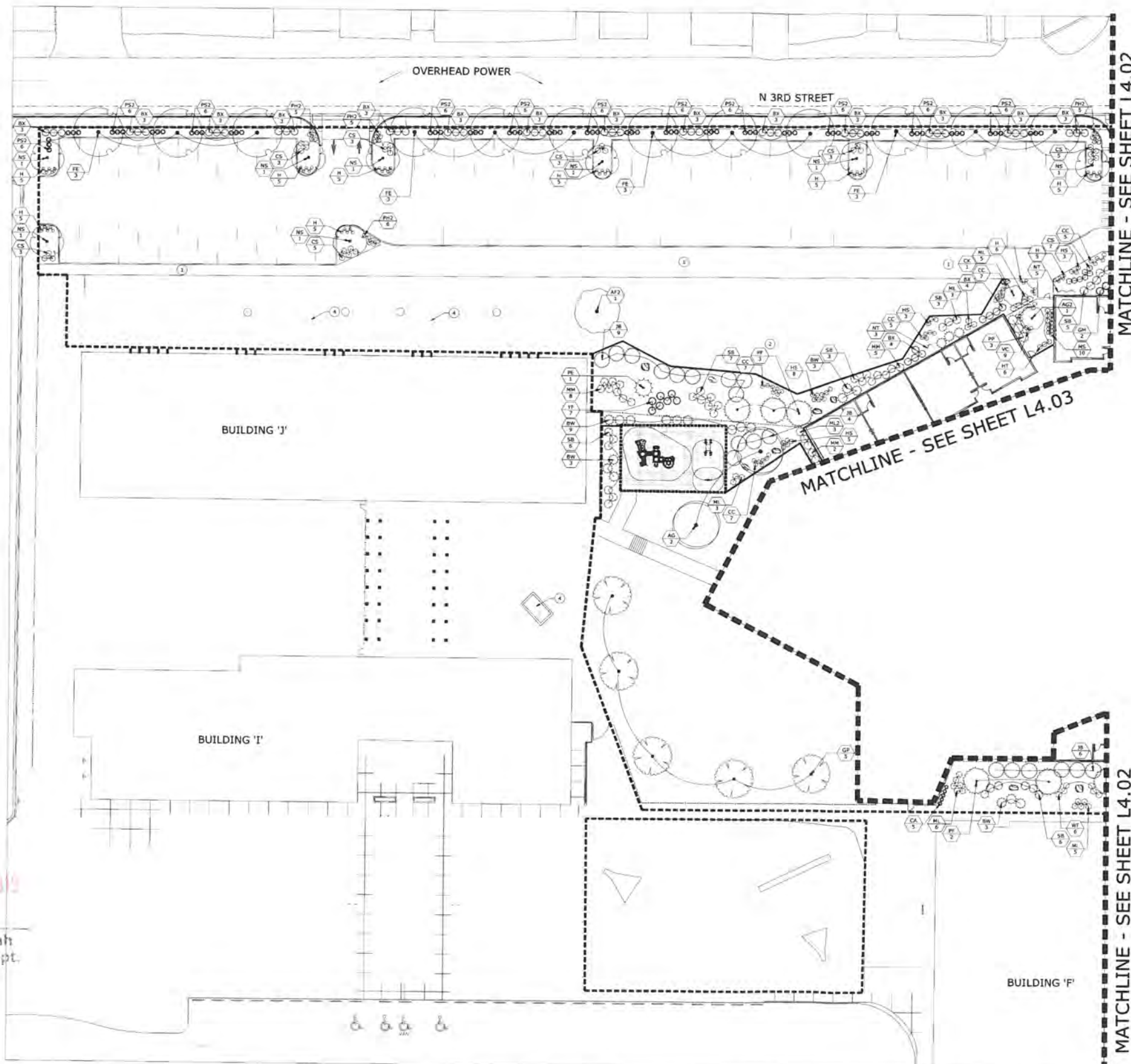


SELAH SCHOOL DISTRICT NO. 119
LINCE KINDERGARTEN
 111 W. WASHINGTON AVE., SELAH, WA 99154

NAC
 ARCHITECTURE
 1075 WALL STREET SUITE 400
 SEASIDE, WA 98148
 PHONE: 111-18010
 FAX: 509-922-7449
 DATE: 12-20-2018

IRRIGATION PLAN

L3.01



CALLOUTS

- 1 HARDSCAPE SEE ARCHITECTURAL DRAWINGS
- 2 SWALE SEE CIVIL DRAWINGS
- 3 COURTYARD SEE SHEET L4.06
- 4 EXISTING TREE PRESERVE AND PROTECT

LEGEND

- SOODED TURF GRASS WITH AUTOMATIC OVERHEAD IRRIGATION
- EXISTING TURF GRASS AND IRRIGATION REPAIR
- SYNTHETIC TURF SAFETY SURFACING
- SAFETY SURFACING CONTAINMENT CURB
- 8" CONCRETE MONOCURB
- LIMIT OF WORK

PLANT LEGEND

TREES	BOTANICAL NAME / COMMON NAME	SIZE	QTY
AG	Acer rubrum 'Fraxinoides' TM / Red Sunset Maple	2" Cal.	2
AG	Acer rubrum 'October Glory' TM / October Glory Maple	2" Cal.	2
AG	Acer glabrum / Paperbark Maple	2" Cal.	1
CK	Cornus kousa 'Cherokee' / Cherokee Dogwood	2" Cal.	1
FE	Fraxinus excelsior 'Golden Desert' / Golden Desert Ash	2" Cal.	12
FE	Quercus laevis 'Proclamation Sentry' / Proclamation Sentry Oak	2" Cal.	5
NS	Nyssa sylvatica / Sour Gum	2" Cal.	8
PE	Pinus strobus 'Fastigiate' / Erect Scotch Pine	7-8" Tall	1
PE	Pinus strobus 'Vanderhoff' / Vanderhoff's Pyramid Pine	7-8" Tall	5
SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	QTY
BW	Buxus microphylla japonica 'Winter Gem' / Winter Gem Boxwood	5 gal	21
BS	Buxus 'Green Gem' / Green Gem Boxwood	2 gal	50
CC	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	2 gal	5
CA	Caryopteris x clandonensis 'Blue Mist' / Blue Mist Shrub	3 gal	33
CC	Cornus sericea 'Kobold' / Kobold Dogwood	2 gal	32
HM	Hemerocallis 'Stella de Oro' / Stella de Oro Daylily	1 gal	31
HS	Helleborus x scaberrimus 'Blue Cal Green' / Blue Cal Green	1 gal	8
HT	Hosta tardiana 'Hosta' / Frosty Ribbon Hosta	2 gal	19
HT	Hosta tardiana 'Hosta' / Frosty Ribbon Hosta	1 gal	8
JR	Juncus roemerianus 'Buffalo' / Buffalo Juniper	5 gal	19
ML	Muhlenbergia serotina 'Little Storm' / Silver Grass	1 gal	12
ML	Muhlenbergia capillaris 'Lunch' / Royal Hot Pink Mury	5 gal	3
ML	Muhlenbergia serotina 'Morning Light' / Edella Grass	1 gal	10
MS	Martynia struthiopteris / Dutch Fern	1 gal	15
NT	Nassella tenuissima 'Pony Tail' / Mexican Feathergrass	1 gal	8
NT	Pennisetum alopecuroides 'Harris' / Harris Dwarf Fountain Grass	1 gal	21
PP	Picea pungens 'Globose' / Dwarf Globe Blue Spruce	3 gal	3
PS2	Panicum virgatum 'Shamash' / Switch Grass	2 gal	46
SB	Spiraea x bumalda 'Goldflame' / Goldflame Spiraea	2 gal	30
VC	Vaccinium corymbosum 'Cape May' / Cape May Blueberry	2 gal	9
WF	Wegelia Florida 'Dark Horse' / Dark Horse Wegelia	2 gal	8
YF	Yucca filamentosa 'Bright Edge' / Adam's Needle	2 gal	7

PLANT QUANTITY NOTE: CONTRACTOR SHALL VERIFY QUANTITIES IN PLANT LEGEND WITH PLANT SYMBOLS ON PLANS

PLANT CALLOUTS

- XX - PLANT ABBREVIATION
- ### - NUMBER OF PLANTS
- EX - EXISTING

PLANTING NOTES

- TREES AND SHRUBS TO MEET REQUIREMENTS OF AMERICAN STANDARD FOR NURSERY STOCK FOR SIZE AND MATERIAL CONDITION.
- ALL PLANTING AREAS TO RECEIVE 6" OF TYPE A PLANTING SOIL.
- INSTALL 2" OF MINERAL MULCH WITH PRE-EMERGENT IN ALL PLANTING AREAS.
- ALL TURF AREAS TO RECEIVE 4" OF TYPE A PLANTING SOIL PRIOR TO SEEDING. TILL INTO EXISTING SOIL.
- ALL TOPSOIL ON SITE TO BE STOCKPILED FOR REUSE IN TURF AND PLANTING AREAS.
- TREE LOCATIONS MAY VARY DEPENDING ON WALK, DRIVEWAY, AND UTILITY LOCATIONS.
- DO NOT COMPACT BOTTOMS OF SWALES. PROTECT SWALES FROM CONSTRUCTION TRAFFIC AND DENNIS.
- ALL TREES TO BE SINGLE TRUNKED, UNLESS OTHERWISE NOTED. MULTI-TRUNKED TREES TO INCLUDE MAIN LEADER EQUAL OR GREATER TO SIZE SPECIFIED.
- TREES SHALL BE MATCHED FROM SAME LOT.
- FINISH GRADE TO BE: PLANTING AREAS: 2" BELOW ADJACENT WALKS OR HARDSCAPE ELEMENTS. TURF AREAS: 1" BELOW ADJACENT WALKS OR HARDSCAPE ELEMENTS. MULCH AREAS: 2" BELOW ADJACENT WALKS OR HARDSCAPE ELEMENTS.

CONSTRUCTION NOTES

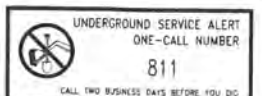
- CALL LOCATE 2 WORKING DAYS BEFORE YOU DIG (W2BD). ALL UTILITIES & STRUCTURES ARE NOT SHOWN. THE LOCATION OF THOSE SHOWN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY BOTH UNDERGROUND AND ABOVE GROUND EXISTING CONDITIONS. NOTIFY LANDSCAPE ARCHITECT FOR RESOLUTION AND MAKE MINOR CHANGES TO NEW CONSTRUCTION AT NO COST TO THE OWNER.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES ON SITE, WITHIN CONSTRUCTION DISTURBANCE ZONE AFTER UTILITY METERS AND PUBLIC CONNECTIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFYING THE OWNER AND OWNER'S REPRESENTATIVES OF DISCREPANCIES.
- PRESERVE AND PROTECT ALL IMPROVEMENTS TO REMAIN.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION AND SERVICES NECESSARY TO COMPLETE THE CONSTRUCTION SHOWN ON THE DRAWINGS.
- PRESERVE AND PROTECT EXISTING HARDSCAPE TO REMAIN.

Received
JAN 23 2019
 By *JOP*
 City of Selah
 Planning Dept.

A LANDSCAPE PLAN



MICHAEL TERRELL - LANDSCAPE ARCHITECTURE, PLLC
 1421 N. MEADOWWOOD LANE, SUITE 150
 LIBERTY LAKE, WA 99019
 PHONE (509) 822-7448



PRELIMINARY - NOT FOR CONSTRUCTION

REVISIONS

90% CONSTRUCTION DOCUMENTS



SELAH SCHOOL DISTRICT NO. 119
LINCE KINDERGARTEN
 311 W. INDEPENDENCE ST., SELAH, WA 99084

NAC
 ARCHITECTURE
 NACARCHITECTURE.COM

111-18010
 SHEET: SLK
 DATE: 12-20-2018

LANDSCAPE PLAN

L4.01

CALLOUTS

- 1 STEPPING STONES SEE ARCHITECTURAL DRAWINGS
- 2 BENCHES
- 3 EMERGENCY VEHICLE ACCESS SEE ARCHITECTURAL DRAWINGS
- 4 HARDSCAPE SEE ARCHITECTURAL DRAWINGS
- 5 SWINGS 4 REGULAR 2 ADA
- 6 TRIKE PATH
- 7 NATURAL STEPPING STONE AND BALANCE LOG STRUCTURES
- 8 INTERACTIVE PLAY WATER FEATURE

LEGEND

- TURF GRASS WITH AUTOMATIC OVERHEAD IRRIGATION
- POURED-IN-PLACE SURFACING
- SYNTHETIC TURF SAFETY SURFACING
- INTRIGAL COLOR CONCRETE
- SAFETY SURFACING CONTAINMENT CURB
- ANIMAL TRACKS CONCRETE STAMP: SEE SHEET L1.03 FOR ANIMAL TRACK STAMP TYPE. REFER TO SECTION 32 13 16

PLANT LEGEND

TREES	BOTANICAL NAME / COMMON NAME	SIZE	QTY
AGZ	Acer glabrum / Fraxinus viridis	2" Cal	38
CF	Cornus kousa chinensis / Chinese Dogwood	2" Cal	3
GI	Gleditsia triacanthos 'Sentry' / Precison Sentry Ginkgo	2" Cal	1
PI	Prunus 'Helen' / Spire Cherry	2" Cal	8
SP	Salix purpurea / Purple Over Willow	5" gal	1
SHRUBS			
BW	Buxus microphylla japonica / Winter Gem	1" gal	17
CA	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	2" gal	12
CC	Caragana arborescens 'Blue Mist' / Blue Mist Shrub	1" gal	18
CS	Cornus sericea 'Kelsey' / Kelsey Dogwood	1" gal	35
EE	Eragrostis alba 'Wind Dancer' / Bird & Love Grass	1" gal	5
GM	Gratiola sinensis 'Gracella' / Gracella Maiden Grass	1" gal	2
H	Hemerocallis x Stella de Oro / Stella de Oro Daylily	1" gal	42
HA	Hedera helix 'Aurea' / Golden Variegated Hedera	1" gal	17
HB	Hemerocallis x Little Business / Little Business Daylily	1" gal	25
HG	Helleborus viridis / Blue Oak Grass	1" gal	40
HT	Hosta tardiana 'Moulin' / Frosty Ribbon Hosta	1" gal	24
JG	Juniperus x pfitzeriana 'Gold Coast' / Gold Coast Juniper	1" gal	1
ML	Mazanthus sinensis 'Little Zebra' / Zebra Grass	2" gal	6
MR	Mulinbergia capillaris 'Lanica' / Royal Mist Pink Muly	1" gal	22
MS	Mazanthus sinensis 'Mooring Light' / Eubalia Grass	1" gal	42
NT	Nastella tenuissima 'Fony Tails' / Mexican Feathergrass	1" gal	40
PEJ	Potentilla fruticosa 'Abbotswood' / Abbotswood Potentilla	1" gal	5
PEJ	Pentstemon setosus / Firecracker Pentstemon	1" gal	28
PHJ	Penstemon alpestris 'Hawaii' / Hawaii Dwarf Fountain Grass	1" gal	14
PS	Phlox subulata 'Emerald Blue' / Emerald Blue Moss Phlox	1" gal	12
PSJ	Panicum virgatum 'Shenandoah' / Switch Grass	2" gal	12
SB	Saxifraga x burbankii 'Goldflame' / Goldflame Saxifrage	2" gal	22
SB	Salix purpurea 'Yankee Doodle' / Yankee Doodle Willow	1" gal	18
SY	Syringa vulgaris 'Yankee Doodle' / Yankee Doodle Lilac	1" gal	1
YF	Yucca filamentosa 'Single Edge' / Adam's Needle	2" gal	18

PLANT CALLOUTS

- XX - PLANT ABBREVIATION
- YY - NUMBER OF PLANTS
- TX - EXISTING

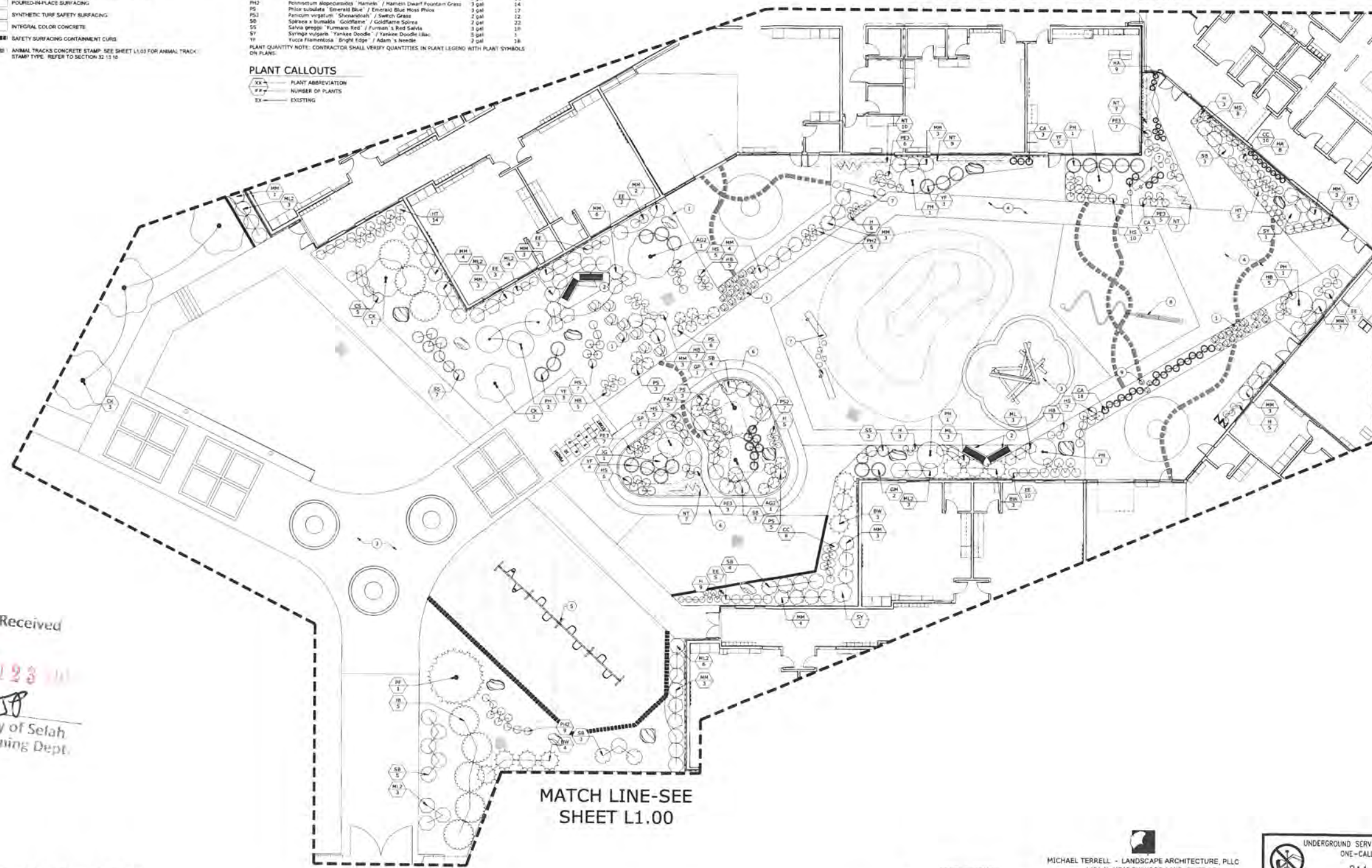
PLANTING NOTES

- TREES AND SHRUBS TO MEET REQUIREMENTS OF AMERICAN STANDARD FOR NURSERY STOCK FOR SIZE AND MATERIAL CONDITION.
- ALL PLANTING AREAS TO RECEIVE 6" OF TYPE A PLANTING SOIL.
- INSTALL 2" OF MINERAL MULCH WITH PRE-EMERGENT IN ALL PLANTING AREAS.
- ALL TURF AREAS TO RECEIVE 4" OF TYPE A PLANTING SOIL FROM TO SEEDING, TILL INTO EXISTING SOIL.
- ALL TOPSOIL ON SITE TO BE STOCKPILED FOR REUSE IN TURF AND PLANTING AREAS.
- TREE LOCATIONS MAY VARY DEPENDING ON WALK, DRIVEWAY, AND UTILITY LOCATIONS.
- DO NOT CONTACT BOTTOMS OF SHOULDS. PROTECT SHOULDS FROM CONSTRUCTION TRAFFIC AND DENUS.
- ALL TREES TO BE SINGLE TRUNKED, UNLESS OTHERWISE NOTED. MULTI-TRUNKED TREES TO INCLUDE MAIN LEADER EQUAL OR GREATER TO SIZE SPECIFIED.
- TREES SHALL BE MATCHED FROM SAME LOT.
- FINISH GRADE TO BE PLANTING AREAS: 2" BELOW ADJACENT WALKS OR HARDSCAPE ELEMENTS. TURF AREAS: 1" BELOW ADJACENT WALKS OR HARDSCAPE ELEMENTS. MULCH AREAS: 2" BELOW ADJACENT WALKS OR HARDSCAPE ELEMENTS.

CONSTRUCTION NOTES

- CALL LOCATE 2 WORKING DAYS BEFORE YOU DIG (811). ALL UTILITIES & STRUCTURES ARE NOT SHOWN. THE LOCATION OF THOSE SHOWN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY BOTH UNDERGROUND AND ABOVE GROUND EXISTING CONDITIONS. NOTIFY LANDSCAPE ARCHITECT FOR RESOLUTION AND MAKE MINOR CHANGES TO NEW CONSTRUCTION AT NO COST TO THE OWNER.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES ON SITE, WITHIN CONSTRUCTION DISTURBANCE ZONE AFTER UTILITY METERS AND PUBLIC CONNECTIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFYING THE OWNER AND CHAIRS REPRESENTATIVES OF DISCREPANCIES.
- PRESERVE AND PROTECT ALL IMPROVEMENTS TO REMAIN.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION AND SERVICES NECESSARY TO COMPLETE THE CONSTRUCTION SHOWN ON THE DRAWINGS.
- PRESERVE AND PROTECT EXISTING HARDSCAPE TO REMAIN.

MATCH LINE-SEE SHEET L1.00



MATCH LINE-SEE SHEET L1.00

Received

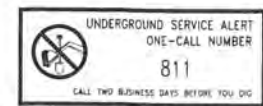
JAN 23 2018

By *[Signature]*
City of Selah
Planning Dept.

A COURTYARD PLAN



MICHAEL TERRELL - LANDSCAPE ARCHITECTURE, PLLC
1421 N. MEADOWWOOD LANE, SUITE 150
LIBERTY LAKE, WA 99019
PHONE (509) 922-7449



PRELIMINARY - NOT FOR CONSTRUCTION

REVISIONS

90% CONSTRUCTION DOCUMENTS



SELAH SCHOOL DISTRICT NO. 119
LINCE KINDERGARTEN
116 W. MADISON AVE. SELAH, WA 99078

NAC
ARCHITECTURE
1333 WEST BROADWAY AVENUE
SEATTLE, WA 98101
PHONE (206) 441-1111

PROJECT: 111-18010
DATE: SEP
100%: MEET
DATE: 12-20-2018

COURTYARD PLAN

L4.03

90% CONSTRUCTION DOCUMENTS

PRELIMINARY

12-20-2018

SELMAH SCHOOL DISTRICT NO. 119
LINCE KINDERGARTEN
119 ARCHITECTURE, JARVIS, AND ASSOCIATES

NAC
ENGINEERING
narchitecture.com
111-18010
VJG
JKS
12-20-2018

SCHEDULES - LIGHTING

E0.03

- INTERIOR LUMINAIRE SCHEDULE -											
TYPE	QTY	MANUFACTURER	CATALOG #	ACCESSORIES	VOLTAGE	VA	WATTS	DELIVERED LUMENS	K TEMP	CRI	NOTES
R01	75	LITHONIA	CLX-44-4000-M-SEY-WEL-MVOLT-Q215-116-ROCR-WH		277V	28	28	4140	3500	80	
R02	5	WAC	MR14-LED-FR-BN		120V	2	2	112	3000		
R03	15	BRUCK	Z2-450-AC-MP		120V	10	8	400	2900	90	
R04	1	AXIS	ROULED-400-750-80-35-53-4-BL-KUNV-DF-3-CA01-F		277V	48	48	4600	3500	90	PROVIDE LUMINAIRE LEVEL CONTROLS
R04A	2	AXIS	ROULED-400-750-80-35-53-12-BL-KUNV-DF-2-CA01-F		277V	148	144	13600	3500	90	PROVIDE LUMINAIRE LEVEL CONTROLS
R01	242	MARK	WHSPR-244-4000-M-30K-ACR-MNT-ALIGHT-MVOLT-SWC-CLR		277V	37	34	4570	3500	80	
R01A	4	MARK	WHSPR-244-3000-M-30K-ACR-MNT-ALIGHT-MVOLT-SWC-CLR		277V	26	26	3080	3500	80	
R02	5	MARK	WHSPR-242-2000-M-35K-ACR-MNT-ALIGHT-MVOLT-SWC-CLR		277V	20	18	2570	3500	80	
R02	60	AXIS	RMFLD-600-80-35-53-2-1W-277V-D-1-TB9		277V	15	13	1200	3500	80	PROVIDE LUMINAIRE LEVEL CONTROLS
R04	23	ALPHABET	NLQGD-XTM19-20-10LM-35K-43-HE8-277-DM15-AC-WH-WH		277V	28	28	4700	3500	83	
R04A	5	ALPHABET	NLQGD-XTM19-10LM-35K-43-HE8-277-DM15-AC-WH-WH		277V	18	18	3120	3500	83	
R04B	4	ALPHABET	NLQGD-XTM19-10LM-35K-43-HE8-277-DM15-AC-WH-WH		277V	14	12	2400	3500	83	
R02	111	ALPHABET	NLQGD-XTM19-20-10LM-35K-43-HE8-277-DM15-AC-WH-WH		277V	28	25	3420	3500	83	
R06	37	AXIS	SKFLD-22-3000-85-35-F-1W-277V-D-1-TB9		277V	38	33	2870	3500	80	PROVIDE LUMINAIRE LEVEL CONTROLS
R06A	36	AXIS	SKFLD-22-3000-85-35-2F-1W-277V-D-1-TB9		277V	39	33	3000	3500	80	PROVIDE LUMINAIRE LEVEL CONTROLS
R06B	23	AXIS	SKFLD-22-3000-85-35-2F-1W-277V-D-1-TB9		277V	18	13	2070	3500	80	PROVIDE LUMINAIRE LEVEL CONTROLS
R06C	2	AXIS	SKFLD-22-3000-85-35-F-1W-277V-D-1-DF		277V	36	32	2870	3500	80	PROVIDE LUMINAIRE LEVEL CONTROLS
R06D	6	AXIS	SKFLD-22-3000-85-35-2F-1W-277V-D-1-DF		277V	38	33	3000	3500	80	PROVIDE LUMINAIRE LEVEL CONTROLS
R06E	2	AXIS	SKFLD-22-3000-85-35-2F-1W-277V-D-1-DF		277V	38	33	3000	3500	80	PROVIDE LUMINAIRE LEVEL CONTROLS
R07	6	LITHONIA	EPANL-244-4000-ROCR-30K-MNT-ALIGHT-MVOLT-CLR		277V	51	48	4771	3500	80	
R07A	5	LITHONIA	EPANL-244-4000-ROCR-30K-MNT-ALIGHT-MVOLT-CLR		277V	42	38	3914	3500	80	
R07B	4	LITHONIA	EPANL-244-4000-ROCR-30K-MNT-ALIGHT-MVOLT-CLR	DEGA2	277V	42	38	3914	3500	80	
R07C	3	LITHONIA	EPANL-244-3000-ROCR-30K-MNT-2T-MVOLT-CLR		277V	29	28	2983	3500	80	
R08	29	LITHONIA	EPANL-184-3000-ROCR-30K-MNT-2T-MVOLT-CLR	DEGA4	277V	28	26	2885	3500	80	
R08	4	LITHONIA	EPANL-242-2000-ROCR-30K-MNT-ALIGHT-MVOLT-CLR		277V	34	31	3223	3500	80	
R09A	3	LITHONIA	EPANL-242-2000-ROCR-30K-MNT-ALIGHT-MVOLT-CLR		277V	19	17	1768	3500	80	
R10	4	LITHONIA	ZWRTL-G-44-7000-M-WV-AFL-MVOLT-E21-35K-ROCR-HP-SIZE2-DWAM		277V	84	89	5950	3500	90	
R11	22	MARK	RUBK-RC5-15-ROCR-35K-CLAC-RC3-240-M-MNT-277-AL-T		277V	33	30	2303	3500	80	
R11A	2	MARK	RUBK-RC5-15-ROCR-35K-CLAC-RC3-240-M-MNT-277-AL-T		277V	22	20	2000	3500	80	PROVIDE DRYWALL MOUNTING KIT
R12	10	MARK	RUBK-RC5-15-ROCR-35K-CLAC-RC3-240-M-MNT-277-AL-T		277V	15	14	1152	3500	80	
R12	42	MARK	WHSPR-244-4000-M-30K-ACR-MNT-ALIGHT-MVOLT-SWC-EMC-CLR		277V	37	34	4570	3500	80	
R13	4	MARK	WHSPR-242-2000-M-35K-ACR-MNT-ALIGHT-MVOLT-SWC-EMC-CLR		277V	25	18	2070	3500	80	
R13	1	LITHONIA	EPANL-242-2000-ROCR-30K-MNT-ALIGHT-MVOLT-EMC-CLR		277V	34	31	3225	3500	80	
R13A	2	LITHONIA	EPANL-242-2000-ROCR-30K-MNT-ALIGHT-MVOLT-EMC-CLR		277V	18	17	1740	3500	80	
R13B	7	LITHONIA	ZWRTL-G-44-7000-M-WV-AFL-277V-E21-35K-ROCR-HP-SIZE2-DWAM		277V	64	59	5955	3500	90	
R13C	134	MARK	RUBK-RC5-15-ROCR-35K-CLAC-RC3-240-M-MNT-277-AL-T		277V	33	30	2303	3500	80	
R13D	1	MARK	RUBK-RC5-15-ROCR-35K-CLAC-RC3-240-M-MNT-277-AL-T		277V	22	20	2000	3500	80	PROVIDE DRYWALL MOUNTING KIT
R02	127	LITHONIA	LUCLD-12-35K-ROCR-WH		120V	11	10	542	3000	90	PROVIDE CONNECTING CABLES AS NECESSARY
R02A	14	LITHONIA	LUCLD-12-35K-ROCR-WH		120V	8	7	416	3000	90	PROVIDE CONNECTING CABLES AS NECESSARY
R03	5	WAC	MR14-LED-FR-BN		277V	2	2	1120	3000	80	
R04	30	KENALL	MLH48-4-R-MV-PP-50-54-DCC-1-277		277V	106	98	8242	3000	80	PROVIDE LUMINAIRE LEVEL CONTROLS
R05	2	ETC	THEATRICAL LIGHTING		277V	300	20	5	3000	0	
R06	2	ETC	THEATRICAL LIGHTING		277V	300	20	5	3000	0	
R08	56	LITHONIA	EPANL-184-3000-ROCR-30K-MNT-2T-MVOLT-CLR	EXAMKSH	277V	28	26	2885	3500	80	
R01	16	LITHONIA	EDG3-1-GW		0V	4	4	N/A	0	N/A	CEILING MOUNTED. PROVIDE DIRECTIONAL ARROWS AS INDICATED. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM NEAREST EMERGENCY CIRCUIT SERVING LOCAL SWITCH GROUP
R01A	6	LITHONIA	EDG3-1-GW		0V	4	4	N/A	0	N/A	CEILING MOUNTED. PROVIDE DIRECTIONAL ARROWS AS INDICATED. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM NEAREST EMERGENCY CIRCUIT SERVING LOCAL SWITCH GROUP
R02	5	LITHONIA	EDG3-1-GW		0V	4	4	N/A	0	N/A	BACK MOUNTED. PROVIDE DIRECTIONAL ARROWS AS INDICATED. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM NEAREST EMERGENCY CIRCUIT SERVING LOCAL SWITCH GROUP

- EXTERIOR LUMINAIRE SCHEDULE -											
TYPE	QTY	MANUFACTURER	CATALOG #	ACCESSORIES	VOLTAGE	VA	WATTS	DELIVERED LUMENS	K TEMP	CRI	NOTES
R01	8	LITHONIA	DEXTLED-P2-40K-17M-MVOLT-SPANL-TA92-MS-SF-DOBKD		277V	77	70	8601	4000	70	TSM PROVIDE 25 STEEL SQUARE TAPERED POLE
R01A	2	LITHONIA	DEXTLED-P2-40K-17M-MVOLT-SPANL-TA92-MS-SF-DOBKD		277V	77	70	8601	4000	70	TSM PROVIDE 25 STEEL SQUARE TAPERED POLE
R01B	2	LITHONIA	DEXTLED-P2-40K-17M-MVOLT-SPANL-TA92-MS-SF-DOBKD		277V	77	70	8601	4000	70	TSM PROVIDE 25 STEEL SQUARE TAPERED POLE
R01C	2	LITHONIA	DEXTLED-P2-40K-17M-MVOLT-SPANL-TA92-MS-SF-DOBKD		277V	77	70	8601	4000	70	TSM PROVIDE 25 STEEL SQUARE TAPERED POLE
R01D	1	LITHONIA	DEXTLED-P2-40K-17M-MVOLT-SPANL-TA92-MS-SF-DOBKD		277V	77	70	8601	4000	70	TSM PROVIDE 25 STEEL SQUARE TAPERED POLE
R01E	1	LITHONIA	DEXTLED-P2-40K-17M-MVOLT-SPANL-TA92-MS-SF-DOBKD		277V	77	70	8601	4000	70	TSM PROVIDE 25 STEEL SQUARE TAPERED POLE
R02	17	LUMENS	MAJ14-ZW00P-180-277V-827		277V	76	89	7884	4000	80	T3 PROVIDE 12 PST POLE
R02B	1	LUMENS	MAJ14-ZW00P-180-277V-827		277V	63	75	6462	4000	80	T3 PROVIDE 12 PST POLE
R03	8	BEGA	64875-R4		277V	31	47	3788	4000	80	T5 PROVIDE 12 PST POLE
R04	5	LITHONIA	WSTLED-P2-40K-17M-MVOLT-SF-DOBKD		277V	28	25	3488	4000	70	
R04A	8	LITHONIA	WSTLED-P2-40K-17M-MVOLT-SF-DOBKD		277V	28	25	3512	4000	70	
R05	2	ALPHABET	NLQGD-XTM19-10LM-35K-43-HE8-277-DM15-AC-WH-WH		277V	18	18	1720	3500	83	
R06	11	AXIS	WRLED-500-80-35-54-W-KUNV-DF-1-DF		277V	24	22	2900	3500	80	
R07	5	AJND	10014-20K-40-35-54-4000-0-DF-S-WV-PC21-HP-1	ICP CHANNEL MOUNT	277V	34	31	3711	3500	80	

LOW VOLTAGE BUTTON STATION SCHEDULE							
BUTTON STATION	BUTTON 1	BUTTON 2	BUTTON 3	BUTTON 4	BUTTON 5	BUTTON 6	BUTTON 8
1	WH SWIFT (R)	AV MODE (L1)	QUIT (C)	AV MODE (R1)	On/Off	MAX IN	OFF (L)
1	(R1)	OFF (R)					
1	EMERGENCY CALL						
1	ALL OFF (T)	MAN (L)	EMER (R)				
1	ALL ON (H)	AV MODE (L)	MAN (R)	LOW (L)			
1	ALLOW ON (H)	AV MODE (R)	MAN (L)	LOW (R)			
1	*OFF (R)			LOW (L)			
1							
1							
1							
1							
1							
1							
1							
1							
1							

NOTES

1. PROVIDED IN DAYLIGHT ZONES TO DIM MAINLIGHT SENSOR TO APPROPRIATE LEVEL FOR EACH SCENE ACCORDING TO AVAILABLE DAYLIGHT
2. LIGHTING CONTROL FUNCTIONS LISTED BELOW ARE SUGGESTED OPERATIONS. COORDINATE FUNCTIONS WITH OWNERS.

SEQUENCE OF OPERATION:

1. ALL ON/OFF TO TOGGLE ALL FEATURES EXCEPT WHIFTERBOARD ON AND OFF
2. "QUIT" TO DIM ALL BOWS TO 45%
3. "MAN" TO TOGGLE ALL FEATURES EXCEPT WHIFTERBOARD ON AND OFF
4. "MAN" TO INCREMENTALLY RAISE FLOOR LEVELS EXCEPT WHIFTERBOARD
5. "EMER" TO INCREMENTALLY LOWER FLOOR LEVELS EXCEPT WHIFTERBOARD
6. "OFF" TO TURN ON ASSOCIATED LIGHTING IN THE SPACE
7. "OFF" TO TURN OFF ASSOCIATED LIGHTING IN THE SPACE
8. TURN ON COMMON LIGHTS
9. TOGGLE ON/OFF ASSOCIATED SWITCH ZONE
10. "ALL ON/OFF" TO TOGGLE ALL FEATURES ON AND OFF
11. "AV MODE" TO DIM BOWS TO 45% AND TO DIM BOWS TO 10% (L) AND TO 10% (R)
12. "AV MODE" FOR DIMMER SENSATION. COORDINATE FUNCTIONS WITH OWNERS
13. "AV MODE" TO DIM BOWS TO 45%
14. "ALL ON/OFF" TO TOGGLE ALL FEATURES ON AND OFF THIS IS AN ETC CONTROL STATION
15. "EMERGENCY" TO DIM BOWS TO 45% AND TO DIM BOWS TO 10% (L) AND TO 10% (R)
16. "MAN" TO INCREMENTALLY RAISE FLOOR LEVELS EXCEPT WHIFTERBOARD THIS IS AN ETC CONTROL STATION
17. "LOW" TO INCREMENTALLY LOWER FLOOR LEVELS EXCEPT WHIFTERBOARD THIS IS AN ETC CONTROL STATION
18. TO TURN ON COMMON LIGHTS
19. MASTER OVERRIDE CONTROL. REFERS TO DIMMER LOADS ON AND OFF

Received

JAN 23 2019

By *[Signature]*
City of Selma
Planning Dept