Ridgeline Park | Phase 1

401 West Ropelato Drive,
Nibley, UT, 84321

construction documents

December 6, 2023

sheet index

project team

OWNER
Nibley City
455 W 3200 S,
Nibley, UT 84321
P: 435.752.0431 CONTACT: Tom Dickinson
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SURVEY/ CIVIL
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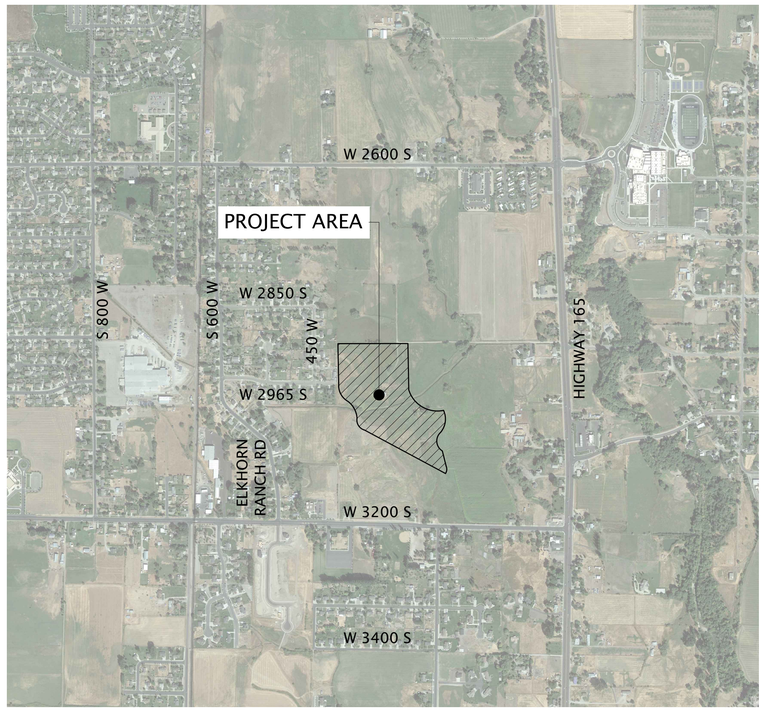
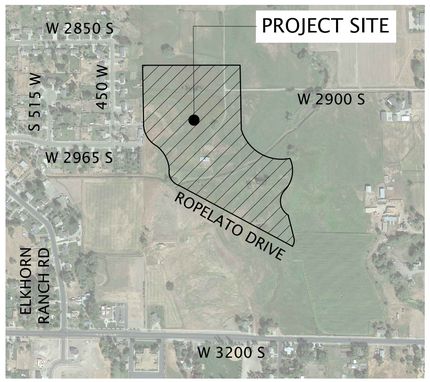
ELECTRICAL ENGINEER
Spectrum Engineers
324 S. State St., Suite 400
Salt Lake City, UT 84111
P: 801.328.5151 CONTACT: Spencer Little
F: 801.328.5155 E-MAIL: spencer.little@speceng.com

project location



project area



project site

General Notes

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND NIBLEY CITY STANDARDS, SPECIFICATIONS, AND DETAILS. ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

2. EXISTING UTILITIES, EASEMENTS, AND STRUCTURES SHOWN ON THE DRAWINGS ARE IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, SIZE, TYPE, AND STRUCTURES TO BE ENCOUNTERED ON THE PROJECT PRIOR TO ANY EXCAVATION AND CONSTRUCTION IN THE VICINITY OF THE EXISTING UTILITIES AND STRUCTURES.

3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL REQUIRED PERMITS, LICENSES, AND APPROVALS REQUIRED TO LEGALLY AND RESPONSIBLY COMPLETE THE WORK.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, DISPOSAL, OR RELOCATION OF ALL OBSTRUCTIONS AND DEBRIS WITHIN THE DELINEATED CONSTRUCTION AREA PRIOR TO STARTING NEW CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY DEBRIS RESULTING FROM NEW CONSTRUCTION.

5. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO EXISTING FEATURES AND FACILITIES SCHEDULED TO REMAIN AS PART OF THE FINISHED CONSTRUCTION. REPAIR, REPLACEMENT, AND/OR REMOVAL AS DETERMINED BY OWNER SHALL BE AT THE CONTRACTOR'S EXPENSE.

6. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST THE TOPS OF ALL EXISTING MANHOLES, CATCH BASINS, INLETS, COVERS, AND SIMILAR STRUCTURES TO FINISH GRADE.

7. THE CONTRACTOR SHALL CALL BLUE STAKES AT 1-800-662-4111 FOR UNDERGROUND UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION.

8. A SUBSTANTIAL COMPLETION OF LANDSCAPE ITEMS IS TO BE MET BEFORE THE PROJECT IS CONCLUDED. THIS INCLUDES ESTABLISHED TURF, TREES, SHRUBS, ETC. A ONE YEAR WARRANTY SHALL BE PROVIDED AND REMOVAL/REPLACEMENT OF DEFICIENT PRODUCTS AT FINAL ACCEPTANCE. THE PROJECT SHALL NOT BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS. DURING THE ONE YEAR WARRANTY THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TURF, TREES, SHRUBS, ECT. THIS INCLUDES WINTERIZING SPRINKLER SYSTEM.

9. CONTRACTOR SHALL ROUGH GRADE TO WITHIN +/- A TENTH OF A FOOT FROM FINISH GRADE.

10. ALL SPOT ELEVATIONS ARE FINISH GRADE UNLESS OTHERWISE NOTED.

11. ALL CLARIFICATIONS OF DISCREPANCIES BETWEEN THE DRAWINGS AND THE SITE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING OF WORK.

12. CROSS SLOPES ON ALL NEW HARDSCAPE AND PAVEMENT SHALL NOT EXCEED 2% UNLESS OTHERWISE SHOWN.

13. ALL AREAS WITHIN AND AFFECTED BY THIS PROJECT SHALL HAVE POSITIVE DRAINAGE. POSITIVE DRAINAGE SHALL BE PROVIDED TO DIRECT STORMWATER AWAY FROM ALL STRUCTURES.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY NIBLEY CITY AND THE STATE OF UTAH.

15. WETLANDS ARE TO BE PROTECTED PER FEDERAL GUIDELINES.

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S,
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

RIDGELINE PARK | PHASE 1
401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

NO.	SUBMITTAL	DESCRIPTION

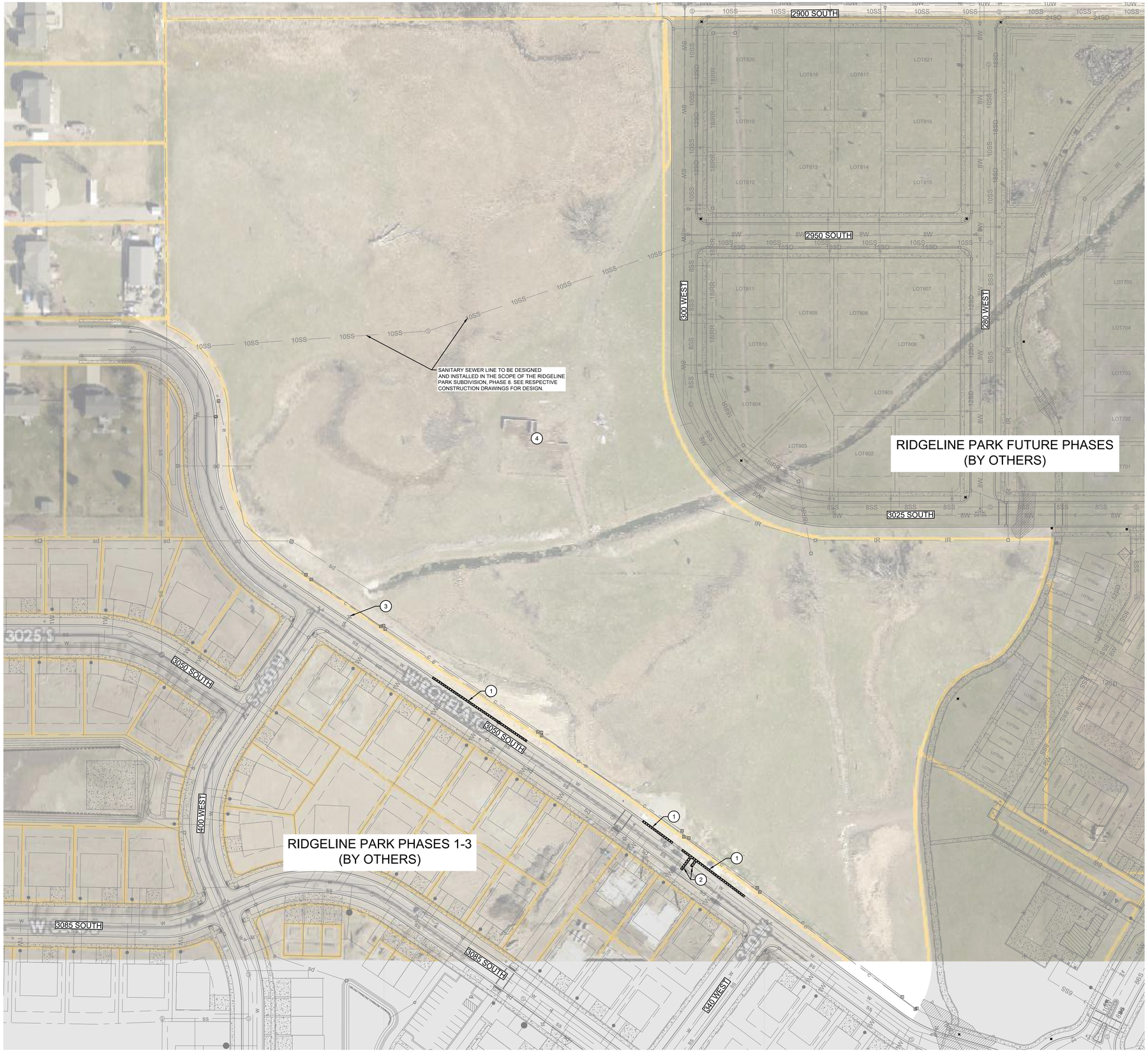
Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title
PROJECT NOTES & SHEET INDEX

Drawing number
L001



GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND CONTACT ENGINEER IF DIFFERENT FROM LOCATIONS DISPLAYED ON THESE PLANS.
2. CONTRACTOR TO COORDINATE ANY NEEDED RELOCATION OF GAS, POWER, & COMMUNICATION WITH RESPECTIVE PRIVATE UTILITY COMPANIES.

① DEMOLITION PLAN SHEET KEY NOTES:

ALL ITEMS CALLED OUT TO BE REMOVED SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER AND LOCATION:

1. REMOVE CURB & GUTTER TO NEAREST JOINT
2. SAWCUT & REMOVE ASPHALT PAVEMENT
3. RELOCATE FIRE HYDRANT
4. REMOVE ALL FENCING, STRUCTURES, AND ANY DEBRIS WITHIN THE PROPERTY BOUNDARY

N

0 60' 120'

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455 W 3200 S
NIBLEY, UT. 84321

CONTACT:
TOM DICKENSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

NO	DATE	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8243189-2202
MICHAEL E. TAYLOR
STATE OF UTAH

Drawn By:	L. MUMFORD
Date:	12/6/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

DEMOLITION PLAN

Drawing number

C101

LEGEND

- PROPERTY BOUNDARY
- PHASE 1 CONSTRUCTION LIMIT LINE
- EXISTING WETLAND

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	CONCRETE SIDEWALK/PLAZA	1/LS501
2	CONCRETE PAVILION PAD	1/LS501
3	ASPHALT PARKING - SEE CIVIL DRAWINGS	
4	PARKING LOT STRIPING - SEE CIVIL DRAWINGS	
5	DRIVE APPROACH - SEE CIVIL DRAWINGS	
6	CURB AND GUTTER - SEE CIVIL DRAWINGS	
7	EXISTING CURB AND GUTTER TO REMAIN	
8	ADA RAMP - SEE CIVIL DRAWINGS	
9	ADA PARKING STALLS - SEE CIVIL DRAWINGS	
10	ADA PARKING SIGNS - SEE CIVIL DRAWINGS	
11	6" CONCRETE EDGER	2/LS501
12	CONCRETE STAIRS	3/LS501
13	LINEAR STONE SITTING WALL	4/LS501
14	THICKENED CONCRETE EDGE	5/LS501
15	ADA PLAYGROUND RAMP	7/LS501
16	PLAYGROUND - SEE LS403	
17	ENGINEERED WOOD FIBER	
18	WETLAND BOARDWALK	9/LS501
19	OVERLOOK DECK	9/LS501
20	PEDESTRIAN BRIDGE	9/LS501
21	3 RAIL FENCE	1/LS502
22	PICKLEBALL COURT - SEE ENLARGEMENTS 1-2- LS402	
23	PICKLEBALL COURT STRIPING	
24	PICKLEBALL COURT PERIMETER FENCE - 6` TALL	2/LS502
25	PICKLEBALL MAN-GATES - 6` TALL	3/LS502
26	PICKLEBALL COURT INTERIOR FENCE - 4` TALL	4/LS502
27	PICKLEBALL NET AND POSTS	5/LS502
28	PICKLEBALL MAINTENANCE GATE	6/LS502
29	ICONIC FEATURE 1	9/LS503
30	ICONIC FEATURE 2	10/LS503
31	PARK ENTRY SIGN	1/LS504
32	CORTEZ CXT RESTROOM - SEE LS505	
33	20' DIA. PAVILION	7/LS503
34	20' DIA. PAVILION - BID ALTERNATE	7/LS503
35	30' DIA. PAVILION - BID ALTERNATE	7/LS503
36	OPEN CHANNEL WATER FEATURE - SEE SECTIONS- LS505	
37	BOULDERING AREA - SEE LS401	
38	CLIMBING BOULDER - SEE LS401	
39	ARTIFICIAL TURF	10/LS502
40	CORN HOLE	8/LS502
41	9 SQUARE	9/LS502
42	GAGA PIT	1/LS503
43	PICNIC TABLE	6/LS503
44	BENCH	3/LS503
45	TRASH RECEPTACLE	5/LS503
46	EXPANSION JOINT AT POST-TENSION CONCRETE SLAB	7/LS502

SYMBOL	DESCRIPTION	DETAIL
	ENGINEERED WOOD FIBER	
	FLAGSTONE	7/LS504
	ARTIFICIAL TURF	10/LS502

Scale: 1" = 50'-0"

0 25 50 100 150

CONSTRUCTION DOCUMENTS

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REVISIONS

NO.	MM/DD/YY	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect

12/06/2023

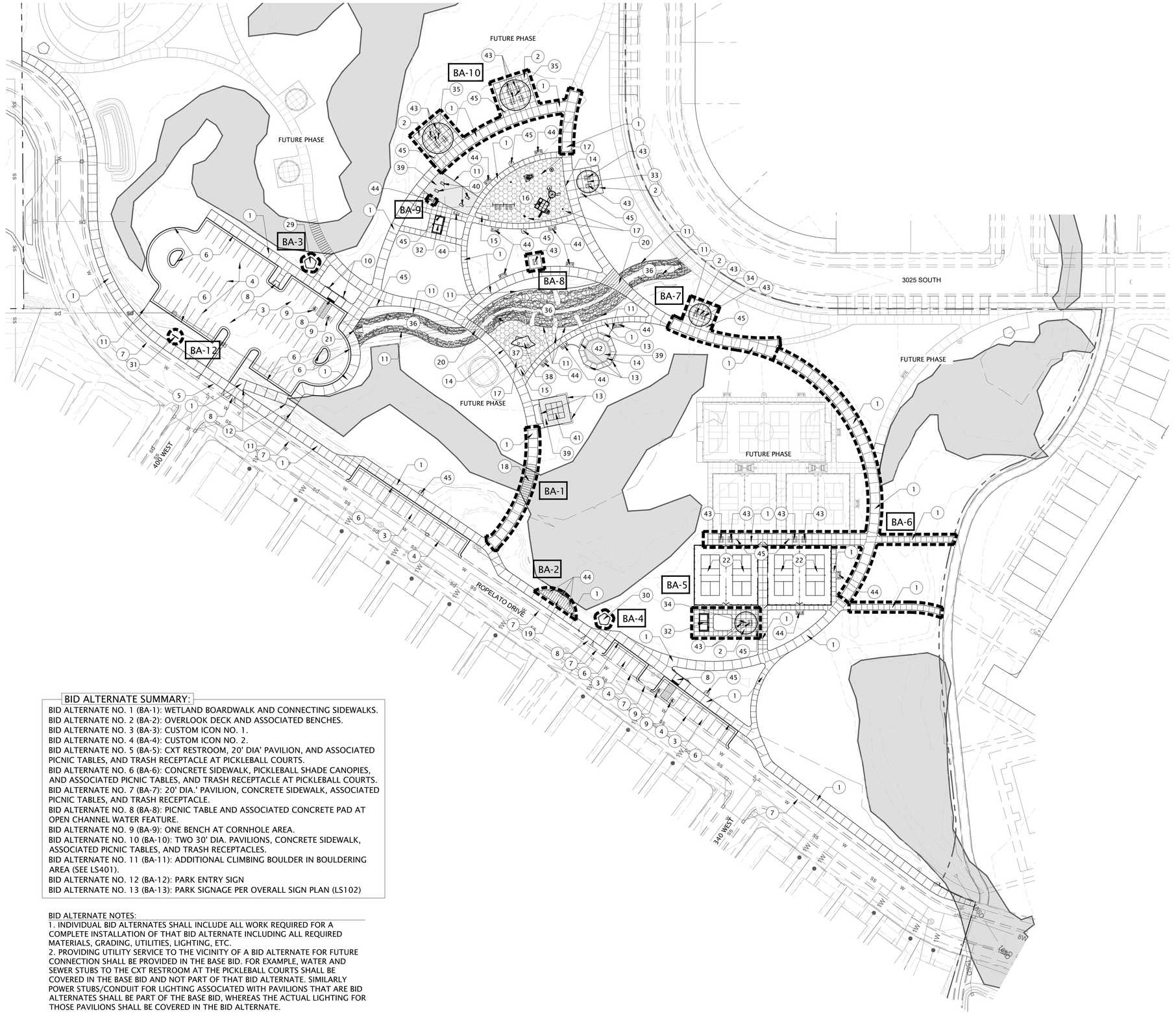
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

OVERALL SITE PLAN

Drawing number

LS100



LEGEND

- PROPERTY BOUNDARY
- BID ALTERNATE LIMIT LINE
- EXISTING WETLAND

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	CONCRETE SIDEWALK/PLAZA	1/LS501
2	CONCRETE PAVILION PAD	1/LS501
3	ASPHALT PARKING - SEE CIVIL DRAWINGS	
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6	CURB AND GUTTER - SEE CIVIL DRAWINGS	
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10	ADA PARKING SIGNS - SEE CIVIL DRAWINGS	
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14	THICKENED CONCRETE EDGE	5/LS501
15	ADA PLAYGROUND RAMP	7/LS501
16	PLAYGROUND - SEE LS403	
17	ENGINEERED WOOD FIBER	
18	WETLAND BOARDWALK	9/LS501
19	OVERLOOK DECK	9/LS501
20	PEDESTRIAN BRIDGE	9/LS501
21	3 RAIL FENCE	1/LS502
22	PICKLEBALL COURT - SEE ENLARGEMENTS 1-2- LS402	
23	PICKLEBALL COURT STRIPING	
24	PICKLEBALL COURT PERIMETER FENCE - 6` TALL	2/LS502
25	PICKLEBALL MAN-GATES - 6` TALL	3/LS502
26	PICKLEBALL COURT INTERIOR FENCE - 4` TALL	4/LS502
27	PICKLEBALL NET AND POSTS	5/LS502
28	PICKLEBALL MAINTENANCE GATE	6/LS502
29	ICONIC FEATURE 1	9/LS503
30	ICONIC FEATURE 2	10/LS503
31	PARK ENTRY SIGN	1/LS504
32	CORTEZ CXT RESTROOM - SEE LS505	
33	20' DIA. PAVILION	7/LS503
34	20' DIA. PAVILION - BID ALTERNATE	7/LS503
35	30' DIA. PAVILION - BID ALTERNATE	7/LS503
36	OPEN CHANNEL WATER FEATURE - SEE SECTIONS- LS505	
37	BOULDERING AREA - SEE LS401	
38	CLIMBING BOULDER - SEE LS401	
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SYMBOL	DESCRIPTION	DETAIL
	ENGINEERED WOOD FIBER	
	FLAGSTONE	7/LS504
	ARTIFICIAL TURF	10/LS502

BID ALTERNATE SUMMARY:

BID ALTERNATE NO. 1 (BA-1): WETLAND BOARDWALK AND CONNECTING SIDEWALKS.
BID ALTERNATE NO. 2 (BA-2): OVERLOOK DECK AND ASSOCIATED BENCHES.
BID ALTERNATE NO. 3 (BA-3): CUSTOM ICON NO. 1.
BID ALTERNATE NO. 4 (BA-4): CUSTOM ICON NO. 2.
BID ALTERNATE NO. 5 (BA-5): CXT RESTROOM, 20' DIA' PAVILION, AND ASSOCIATED PICNIC TABLES, AND TRASH RECEPTACLE AT PICKLEBALL COURTS.
BID ALTERNATE NO. 6 (BA-6): CONCRETE SIDEWALK, PICKLEBALL SHADE CANOPIES, AND ASSOCIATED PICNIC TABLES, AND TRASH RECEPTACLE AT PICKLEBALL COURTS.
BID ALTERNATE NO. 7 (BA-7): 20' DIA.' PAVILION, CONCRETE SIDEWALK, ASSOCIATED PICNIC TABLES, AND TRASH RECEPTACLE.
BID ALTERNATE NO. 8 (BA-8): PICNIC TABLE AND ASSOCIATED CONCRETE PAD AT OPEN CHANNEL WATER FEATURE.
BID ALTERNATE NO. 9 (BA-9): ONE BENCH AT CORNHOLE AREA.
BID ALTERNATE NO. 10 (BA-10): TWO 30' DIA. PAVILIONS, CONCRETE SIDEWALK, ASSOCIATED PICNIC TABLES, AND TRASH RECEPTACLES.
BID ALTERNATE NO. 11 (BA-11): ADDITIONAL CLIMBING BOULDER IN BOULDERING AREA (SEE LS401).
BID ALTERNATE NO. 12 (BA-12): PARK ENTRY SIGN
BID ALTERNATE NO. 13 (BA-13): PARK SIGNAGE PER OVERALL SIGN PLAN (LS102)

BID ALTERNATE NOTES:
1. INDIVIDUAL BID ALTERNATES SHALL INCLUDE ALL WORK REQUIRED FOR A COMPLETE INSTALLATION OF THAT BID ALTERNATE INCLUDING ALL REQUIRED MATERIALS, GRADING, UTILITIES, LIGHTING, ETC.
2. PROVIDING UTILITY SERVICE TO THE VICINITY OF A BID ALTERNATE FOR FUTURE CONNECTION SHALL BE PROVIDED IN THE BASE BID. FOR EXAMPLE, WATER AND SEWER STUBS TO THE CXT RESTROOM AT THE PICKLEBALL COURTS SHALL BE COVERED IN THE BASE BID AND NOT PART OF THAT BID ALTERNATE. SIMILARLY POWER STUBS/CONDUIT FOR LIGHTING ASSOCIATED WITH PAVILIONS THAT ARE BID ALTERNATES SHALL BE PART OF THE BASE BID, WHEREAS THE ACTUAL LIGHTING FOR THOSE PAVILIONS SHALL BE COVERED IN THE BID ALTERNATE.

Scale: 1" = 50'-0"
0 25 50 100 150

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S,
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CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1
401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	(yy/mm/dd)	DESCRIPTION

Stamp
STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title
BID ALTERNATE PLAN

Drawing number
LS101

LEGEND

- PROPERTY BOUNDARY
- PHASE 1 CONSTRUCTION LIMIT LINE
- EXISTING WETLAND

REFERENCE NOTES SCHEDULE

SYMBOL	SIGNAGE DESCRIPTION	DETAIL
SI-01	ENTRY	1/LS505
SI-02	WAYFINDING	2/LS505
SI-03	SMOKING	2/LS505
SI-04	PARKING	2/LS505
SI-05	DOG	2/LS505

NOTE:
COORDINATE EXACT LOCATION OF SIGNS AND FINAL SIGN DESIGNS WITH CITY.

Scale: 1" = 50'-0"

0 25 50 100 150

CONSTRUCTION DOCUMENTS

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No. 5410044-5301
Professional Landscape Architect
12/06/2023

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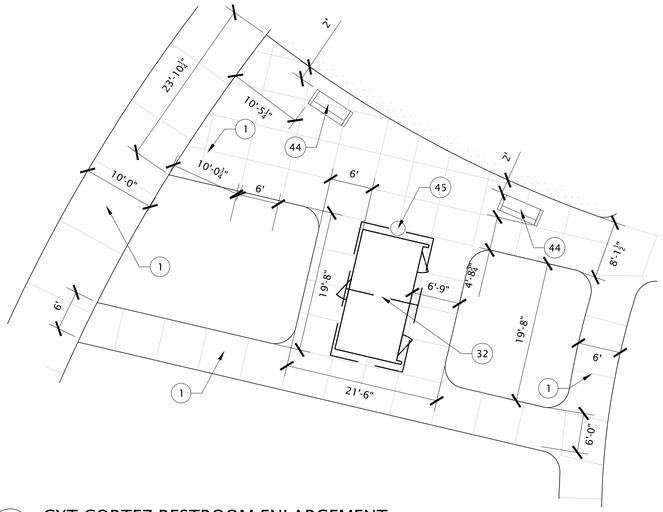
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

OVERALL SIGN PLAN - BID ALTERNATE

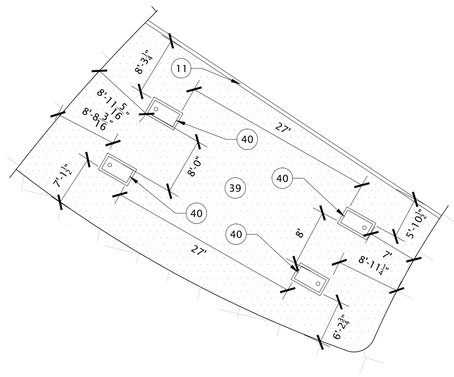
Drawing number

LS102



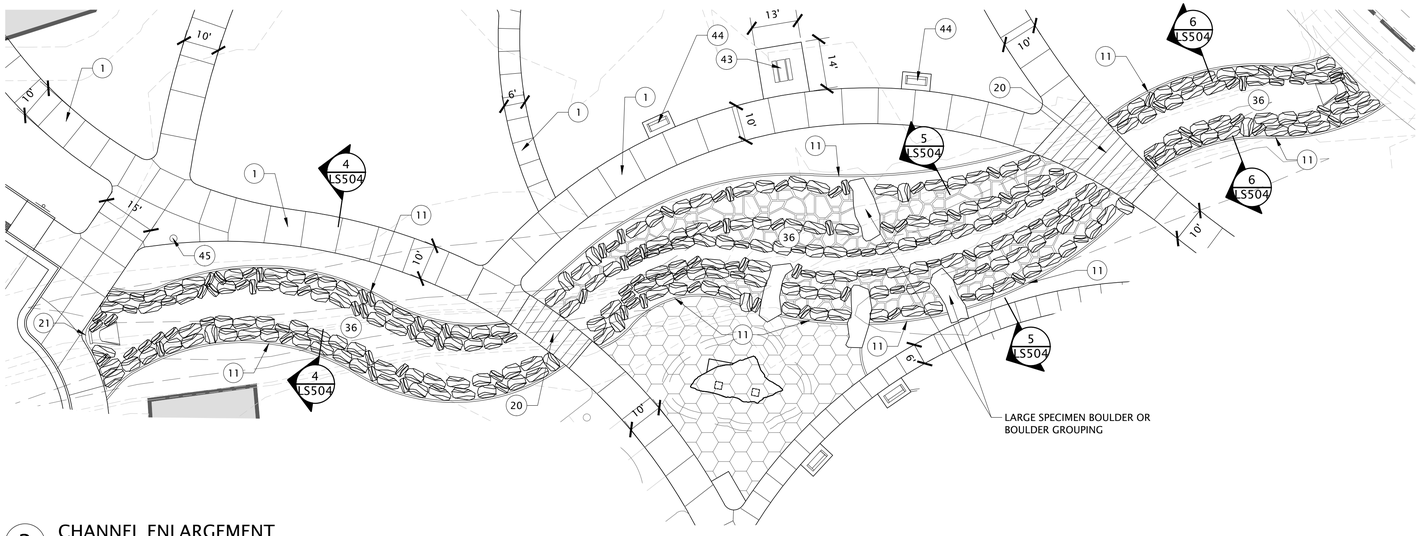
1 CXT CORTEZ RESTROOM ENLARGEMENT

SCALE: 1"=10'-0"



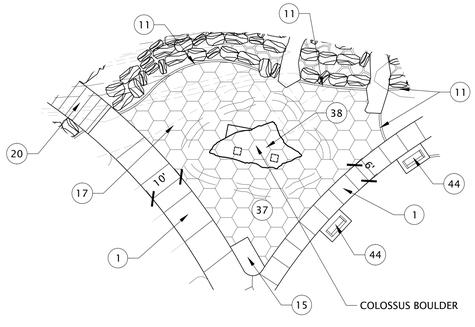
2 CORNHOLE ENLARGEMENT

SCALE: 1"=10'-0"



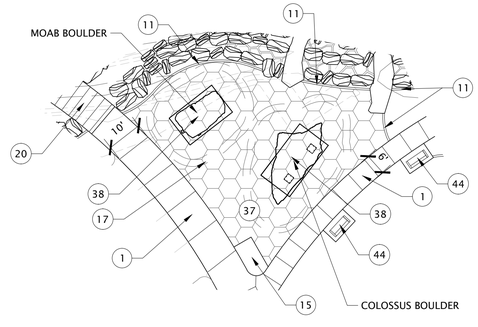
3 CHANNEL ENLARGEMENT

SCALE: 1"=20'-0"



4 BOULDERING AREA ENLARGEMENT - BASE BID

SCALE: 1"=20'-0"



5 BOULDERING AREA ENLARGEMENT - BID ALTERNATE

SCALE: 1"=20'-0"

NOTES:
1. CONTRACTOR SHALL INSTALL 6" WASHED GRAVEL DRAINAGE LAYER AFTER BOULDERS ARE INSTALLED. ENGINEERED WOOD FIBER SURFACING TO BE PROVIDED AND INSTALLED BY OTHERS (N.I.C.).
2. CLIMBING BOULDERS TO BE PROVIDED AND INSTALLED BY OTHERS (N.I.C.).
3. BOULDERS TO HAVE COLORINGS THAT MATCH THE COLOR AND STYLE OF LOCAL ROCKS.
4. CITY TO APPROVE SAMPLES OF COLORINGS BEFORE INSTALLATION.
5. INSTALL PER MANUFACTURER'S INSTRUCITONS.

COLOSSUS BOULDER

MOAB BOULDER

LEGEND

PROPERTY BOUNDARY

PHASE 1 CONSTRUCTION LIMIT LINE

EXISTING WETLAND

REFERENCE NOTES SCHEDULE

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46	EXPANSION JOINT AT POST-TENSION CONCRETE SLAB	7/LS502

SYMBOL	DESCRIPTION	DETAIL
	ENGINEERED WOOD FIBER	
	FLAGSTONE	7/LS504
	ARTIFICIAL TURF	10/LS502

Scale: 1" = 20'-0"

0 10 20 40 60

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NIBLEY

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	yy/mm/dd	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044301
Professional Landscape Architect
12/06/2023

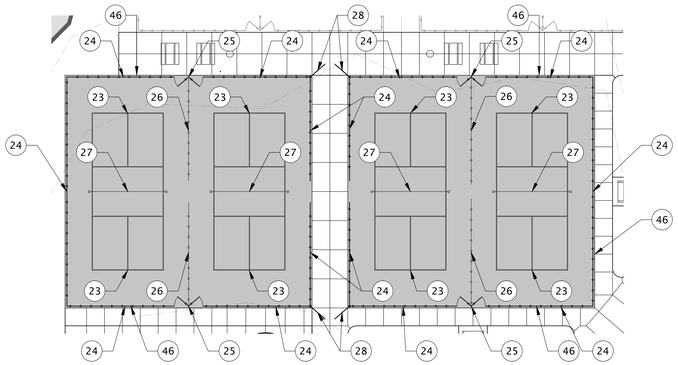
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

SITE PLAN ENLARGEMENT

Drawing number

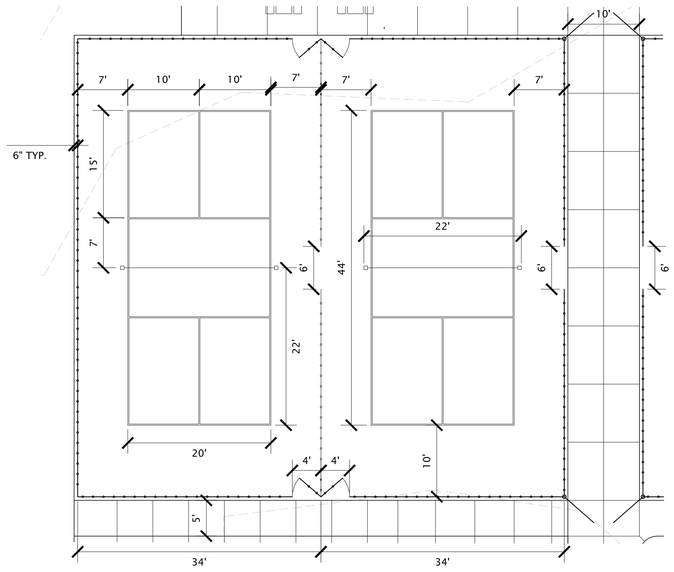
LS401



1 PICKLEBALL COURTS ENLARGEMENT

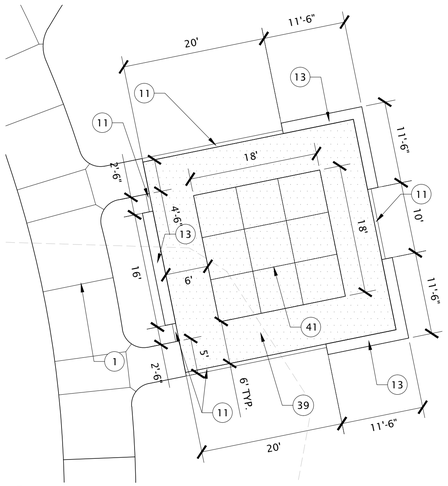
SCALE: 1"=20'-0"

NOTES:
1. STRIPING, SURFACING, AND COLORING SHALL BE PER SPECIFICATIONS.
2. CONTRACTOR SHALL SUBMIT POST TENSION SLAB STRUCTURAL DESIGN FOR OWNER REVIEW AND APPROVAL.



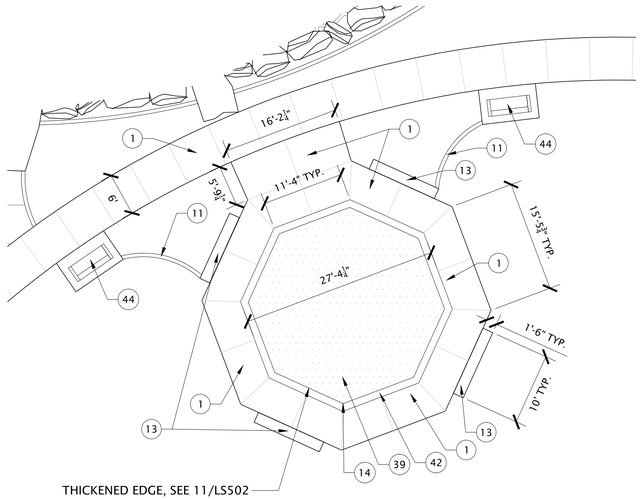
2 PICKLEBALL COURT TYPICAL LAYOUT & STRIPING PLAN

SCALE: 1"=10'-0"



3 9 SQUARE ENLARGEMENT

SCALE: 1"=10'-0"



4 GAGA PIT ENLARGEMENT

SCALE: 1"=10'-0"

LEGEND

- PROPERTY BOUNDARY
- PHASE 1 CONSTRUCTION LIMIT LINE
- LIMIT OF POST-TENSION CONCRETE SLAB

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	CONCRETE SIDEWALK/PLAZA	1/LS501
2	CONCRETE PAVILION PAD	1/LS501
3	ASPHALT PARKING - SEE CIVIL DRAWINGS	
4	PARKING LOT STRIPING - SEE CIVIL DRAWINGS	
5	DRIVE APPROACH - SEE CIVIL DRAWINGS	
6	CURB AND GUTTER - SEE CIVIL DRAWINGS	
7	EXISTING CURB AND GUTTER TO REMAIN	
8	ADA RAMP - SEE CIVIL DRAWINGS	
9	ADA PARKING STALLS - SEE CIVIL DRAWINGS	
10	ADA PARKING SIGNS - SEE CIVIL DRAWINGS	
11	6" CONCRETE EDGER	2/LS501
12	CONCRETE STAIRS	3/LS501
13	LINEAR STONE SITTING WALL	4/LS501
14	THICKENED CONCRETE EDGE	5/LS501
15	ADA PLAYGROUND RAMP	7/LS501
16	PLAYGROUND - SEE LS403	
17	ENGINEERED WOOD FIBER	
18	WETLAND BOARDWALK	9/LS501
19	OVERLOOK DECK	9/LS501
20	PEDESTRIAN BRIDGE	9/LS501
21	3 RAIL FENCE	1/LS502
22	PICKLEBALL COURT - SEE ENLARGEMENTS 1-2- LS402	
23	PICKLEBALL COURT STRIPING	
24	PICKLEBALL COURT PERIMETER FENCE - 6` TALL	2/LS502
25	PICKLEBALL MAN-GATES - 6` TALL	3/LS502
26	PICKLEBALL COURT INTERIOR FENCE - 4` TALL	4/LS502
27	PICKLEBALL NET AND POSTS	5/LS502
28	PICKLEBALL MAINTENANCE GATE	6/LS502
29	ICONIC FEATURE 1	9/LS503
30	ICONIC FEATURE 2	10/LS503
31	PARK ENTRY SIGN	1/LS504
32	CORTEZ CXT RESTROOM - SEE LS505	
33	20' DIA. PAVILION	7/LS503
34	20' DIA. PAVILION - BID ALTERNATE	7/LS503
35	30' DIA. PAVILION - BID ALTERNATE	7/LS503
36	OPEN CHANNEL WATER FEATURE - SEE SECTIONS- LS505	
37	BOULDERING AREA - SEE LS401	
38	CLIMBING BOULDER - SEE LS401	
39	ARTIFICIAL TURF	10/LS502
40	CORN HOLE	8/LS502
41	9 SQUARE	9/LS502
42	GAGA PIT	1/LS503
43	PICNIC TABLE	6/LS503
44	BENCH	3/LS503
45	TRASH RECEPTACLE	5/LS503
46	EXPANSION JOINT AT POST-TENSION CONCRETE SLAB	7/LS502

SYMBOL	DESCRIPTION	DETAIL
	ENGINEERED WOOD FIBER	
	FLAGSTONE	7/LS504
	ARTIFICIAL TURF	10/LS502

Scale: 1" = 20'-0"

0 10 20 40 60

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S,
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1

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REVISIONS

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STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect

12/06/2023

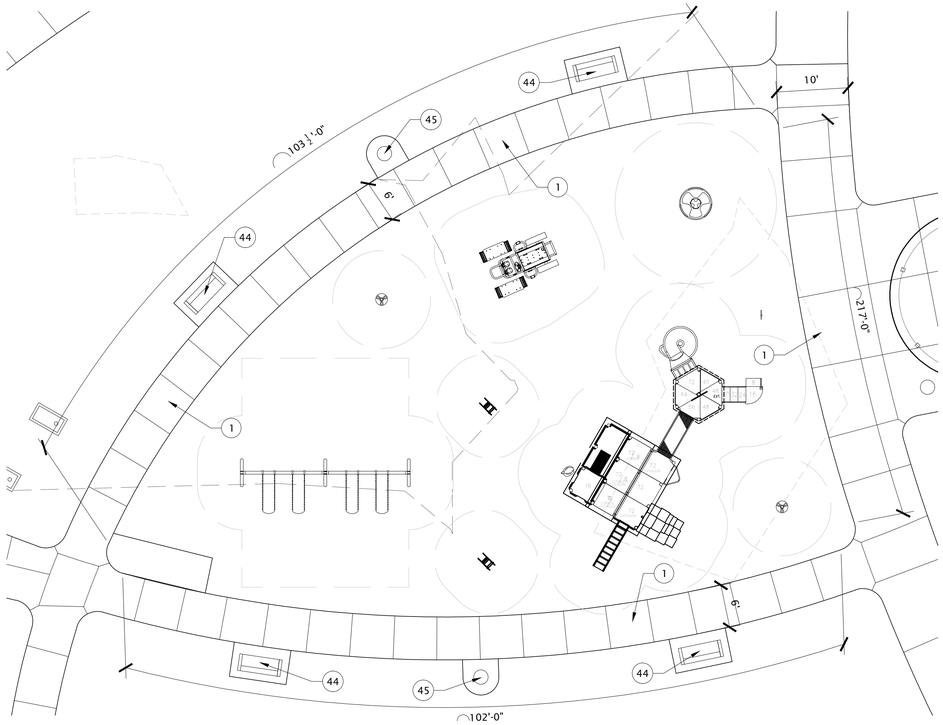
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

SITE PLAN ENLARGEMENT

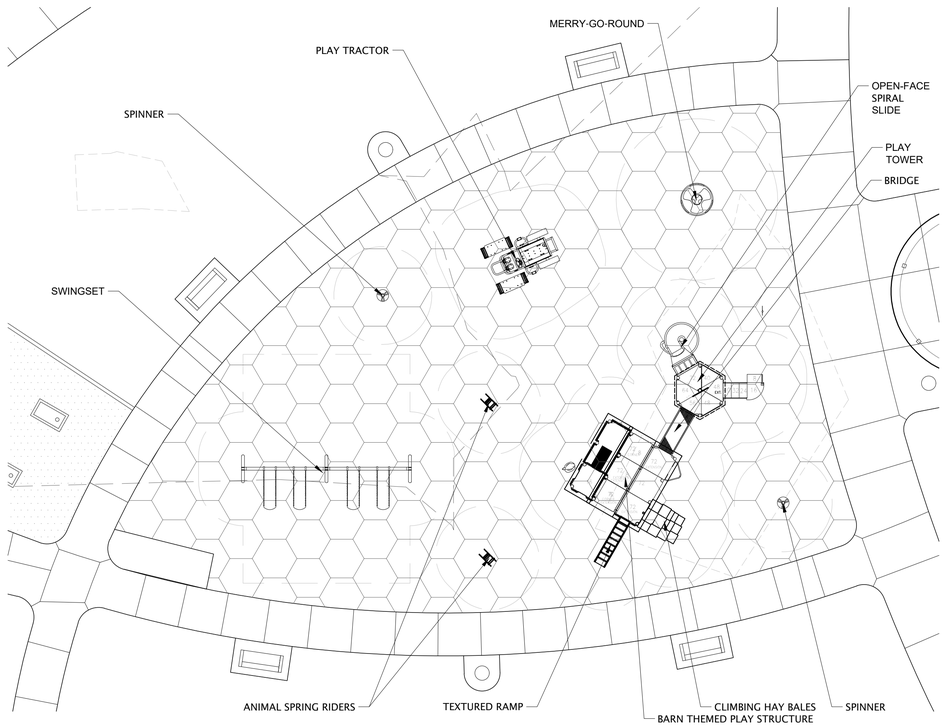
Drawing number

LS402



1 PLAYGROUND ENLARGEMENT

SCALE: 1"=10'-0"



2 PLAY EQUIPMENT ENLARGEMENT

SCALE: 1"=10'-0"

ILLUSTRATIVE IMAGE #1

ILLUSTRATIVE IMAGE #2

ILLUSTRATIVE IMAGE #3

NOTES:
1. PLAYGROUND EQUIPMENT BY LANDSCAPE STRUCTURES, PROVIDED AND INSTALLED BY CITY, N.I.C.
2. SITE CONTRACTOR SHALL PROVIDE EXCAVATION FOR PLAYGROUND AREA AND 6" WASHED GRAVEL DRAINAGE LAYER.
3. CONTRACTOR SHALL INSTALL 6" WASHED GRAVEL DRAINAGE LAYER AFTER PLAYGROUND EQUIPMENT IS INSTALLED. ENGINEERED WOOD FIBER SURFACING TO BE PROVIDED AND INSTALLED BY OTHERS (N.I.C.).
4. CONTACT:

SONNTAG RECREATION
JEFF SONNTAG
PH:801-505-1266
JEFF@SONNTAGREC.COM.

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	CONCRETE SIDEWALK/PLAZA
2	CONCRETE PAVILION PAD
3	ASPHALT PARKING - SEE CIVIL DRAWINGS
4	PARKING LOT STRIPING - SEE CIVIL DRAWINGS
5	DRIVE APPROACH - SEE CIVIL DRAWINGS
6	CURB AND GUTTER - SEE CIVIL DRAWINGS
7	EXISTING CURB AND GUTTER TO REMAIN
8	ADA RAMP - SEE CIVIL DRAWINGS
9	ADA PARKING STALLS - SEE CIVIL DRAWINGS
10	ADA PARKING SIGNS - SEE CIVIL DRAWINGS
11	6" CONCRETE EDGER
12	CONCRETE STAIRS
13	LINEAR STONE SITTING WALL
14	THICKENED CONCRETE EDGE
15	ADA PLAYGROUND RAMP
16	PLAYGROUND - SEE LS403
17	ENGINEERED WOOD FIBER
18	WETLAND BOARDWALK
19	OVERLOOK DECK
20	PEDESTRIAN BRIDGE
21	3 RAIL FENCE
22	PICKLEBALL COURT - SEE ENLARGEMENTS 1-2- LS402
23	PICKLEBALL COURT STRIPING
24	PICKLEBALL COURT PERIMETER FENCE - 6` TALL
25	PICKLEBALL MAN-GATES - 6` TALL
26	PICKLEBALL COURT INTERIOR FENCE - 4` TALL
27	PICKLEBALL NET AND POSTS
28	PICKLEBALL MAINTENANCE GATE
29	ICONIC FEATURE 1
30	ICONIC FEATURE 2
31	PARK ENTRY SIGN
32	CORTEZ CXT RESTROOM - SEE LS505
33	20' DIA. PAVILION
34	20' DIA. PAVILION - BID ALTERNATE
35	30' DIA. PAVILION - BID ALTERNATE
36	OPEN CHANNEL WATER FEATURE - SEE SECTIONS- LS505
37	BOULDERING AREA - SEE LS401
38	CLIMBING BOULDER - SEE LS401
39	ARTIFICIAL TURF
40	CORN HOLE
41	9 SQUARE
42	GAGA PIT
43	PICNIC TABLE
44	BENCH
45	TRASH RECEPTACLE
46	EXPANSION JOINT AT POST-TENSION CONCRETE SLAB

SYMBOL	DESCRIPTION
	ENGINEERED WOOD FIBER
	FLAGSTONE
	ARTIFICIAL TURF

CONSTRUCTION DOCUMENTS

Scale: 1" = 10'-0"

0 5 10 20 30

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8719 S. Sandy Parkway
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No. 5410044-5301
Professional Landscape Architect

12/06/2023

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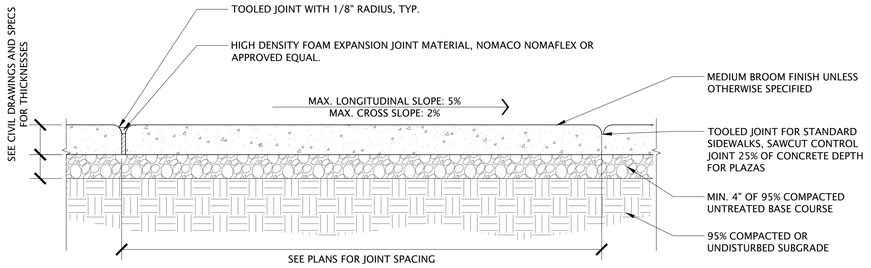
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

PLAYGROUND ENLARGEMENTS

Drawing number

LS403

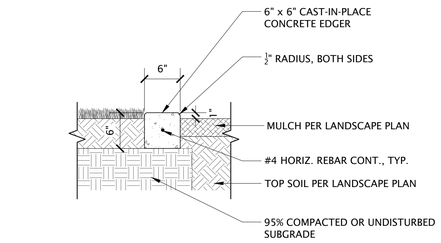


NOTES:
1. JOINT SPACING TO BE AS SHOWN IN SCHEDULE UNLESS OTHERWISE INDICATED ON PLANS.
2. MAX. SLOPES TO BE PER DETAIL UNLESS OTHERWISE SHOWN ON PLAN.
3. IF CONCRETE IS TO BE POURED NEXT TO A CURB, #4 REBAR TO BE DOWELED 3" INTO CURB AND 4" INTO ADJACENT CONCRETE. REBAR TO BE DOWELED A MINIMUM OF 2" FROM TOP OF CONCRETE AND CURB 24" O.C.
4. TREAT CONCRETE WITH CURING AGENT AND SEAL ONCE CURED.
5. CONTROL JOINTS FOR STANDARD CONCRETE MAY BE 1/8" TOOLED JOINTS OR SAWCUT AS APPROVED BY OWNER.
6. CONCRETE WALK INTERSECTIONS SHALL BE POURED MONOLITHICALLY WITH RADII TRANSITIONS PER PLAN.

JOINT SPACING SCHEDULE

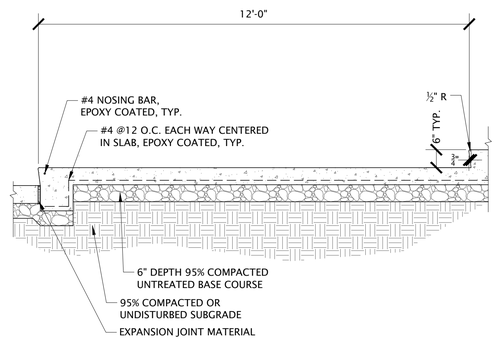
WALK WIDTH	EXPANSION JT.	CONTROL JT.
10'	100' O.C.	10' O.C.
8'	100' O.C.	8' O.C.
6'	100' O.C.	6' O.C.
5'	100' O.C.	5' O.C.

1 CONCRETE SIDEWALK/PLAZA
SCALE: NOT TO SCALE — P-22-209-21

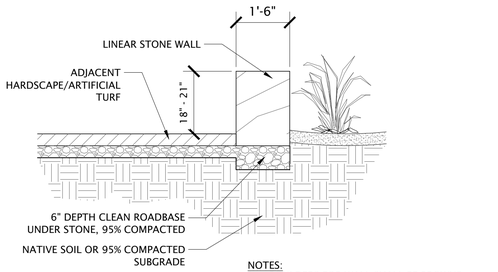


NOTES:
1. EDGER TO BE FLUSH WITH ADJACENT WALK, PATH, PAVEMENT OR CURB.
2. ALL LAYOUT AND FORM WORK TO BE APPROVED BY OWNER PRIOR TO PLACING CONCRETE.
3. CONCRETE TO MEET ALL CITY SPECIFICATIONS.
4. PLACE EXPANSION JOINTS @ 30' O.C., CONTROL JOINTS @ 10' O.C. UNLESS OTHERWISE SHOWN ON PLAN.
5. ALL CURVES IN EDGER TO BE TANGENT TO EACH OTHER AND STRAIGHT SECTIONS OF CURB.
6. CONCRETE EDGER TO BE FORMED AND CAST IN PLACE, NOT PRE-CAST OR EXTRUDED.

2 6" CONCRETE EDGER
NOT TO SCALE

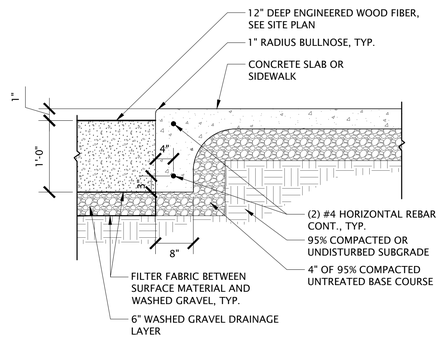


3 CONCRETE STAIR TYP.
1/2" = 1'-0" — P-22-209-114



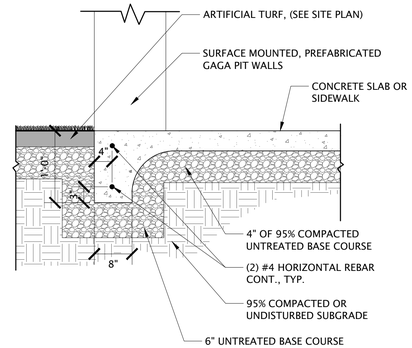
NOTES:
1. BOULDERS FOR WALL SHALL BE BROWNS CANYON QUARTZITIC SANDSTONE OR EQUAL AS APPROVED BY OWNER.

4 LINEAR STONE SITTING WALL
NOT TO SCALE



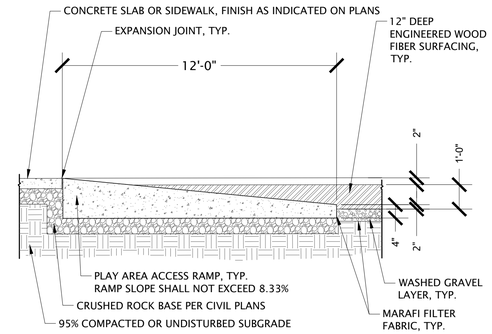
NOTES:
1. CONCRETE SHALL MEET ALL CITY AND APWA SPECIFICATIONS.
2. PLACE EXPANSION JOINTS @ 30' O.C., CONTROL JOINTS @ 10' O.C. UNLESS OTHERWISE SHOWN ON PLAN.

5 THICKENED CONCRETE EDGE AT PLAYGROUND
1" = 1'-0" — P-22-209-60



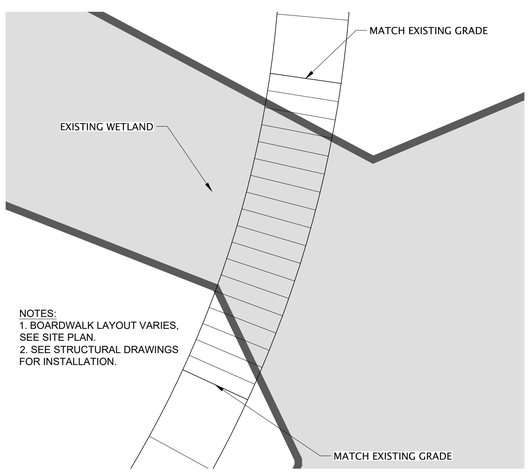
NOTES:
1. CONCRETE SHALL MEET ALL CITY AND APWA SPECIFICATIONS.
2. PLACE EXPANSION JOINTS @ 30' O.C., CONTROL JOINTS @ 10' O.C. UNLESS OTHERWISE SHOWN ON PLAN.

6 THICKENED CONCRETE EDGE AT GAGA PIT
1" = 1'-0" — P-22-209-48



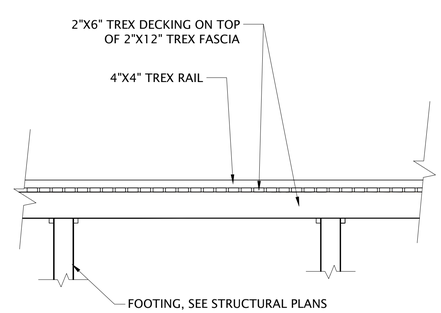
NOTES:
1. ACCESS RAMPS TO BE LOCATED IN FIELD BY OWNER'S REPRESENTATIVE BASED ON PLAY EQUIPMENT LAYOUT - ONE PER PLAY POD.
2. NECESARY DEPTH OF ENGINEER WOOD FIBER SURFACING SHALL BE VERIFIED WITH PLAYGROUND EQUIPMENT SUPPLIER.
3. ENGINEERED WOOD FIBER TO BE PROVIDED AND INSTALLED BY OTHERS (N.I.C.). CONTRACTOR TO INSTALL CONCRETE PLAYGROUND RAMP.

7 PLAYGROUND RAMP
SCALE: NOT TO SCALE — P-22-209-113



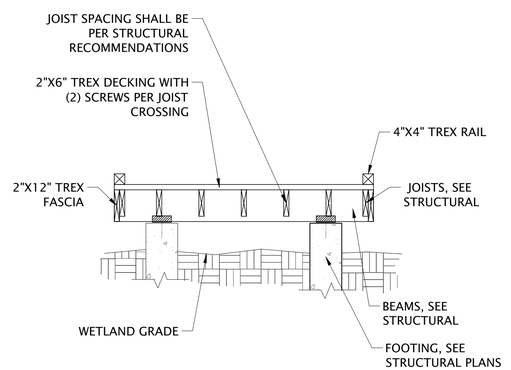
NOTES:
1. BOARDWALK LAYOUT VARIES, SEE SITE PLAN.
2. SEE STRUCTURAL DRAWINGS FOR INSTALLATION.

8 TYPICAL WETLAND BOARDWALK ENLARGEMENT
SCALE: 1"=10'-0"



NOTES:
1. DETAIL SHOWS AESTHETIC CHOICES FOR BOARDWALK. SEE STRUCTURAL PLANS FOR INSTALLTION.
2. COLOR OF TREX DECKING SHALL BE "SADDLE."

9 BOARDWALK PROFILE DETAIL
SCALE: NOT TO SCALE — P-22-209-103



NOTES:
1. DETAIL SHOWS AESTHETIC CHOICES FOR BOARDWALK. SEE STRUCTURAL PLANS FOR INSTALLTION.
2. COLOR OF TREX DECKING SHALL BE "SADDLE."

10 BOARDWALK SECTION DETAIL
SCALE: NOT TO SCALE — P-22-209-104

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8719 S. Sandy Parkway
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p 801.679.3157

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CONSTRUCTION DOCUMENTS

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CORY A. SHUPE
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12/06/2023

Designed By:	RD
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Date:	12/06/2023
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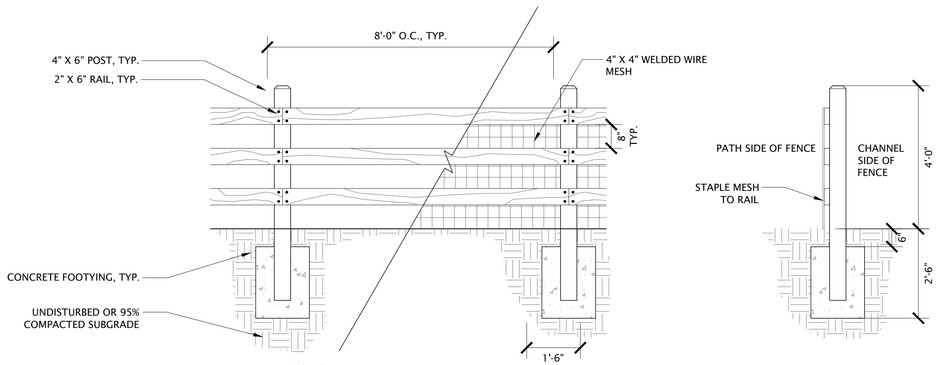
Drawing Title
SITE PLAN DETAILS

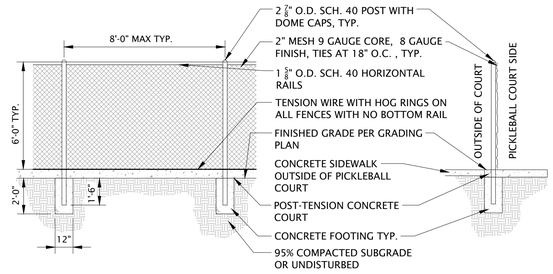
Drawing number
LS501



NOTES:
1. ALL WOOD SHALL BE WESTERN RED CEDAR AND STAINED. COLOR AS SELECTED BY OWNER
2. RAILS SHALL BE CONNECTED TO POSTS WITH EXTERIOR GRADE SCREWS.

1 THREE RAIL FENCE WITH MESH

SCALE: NOT TO SCALE

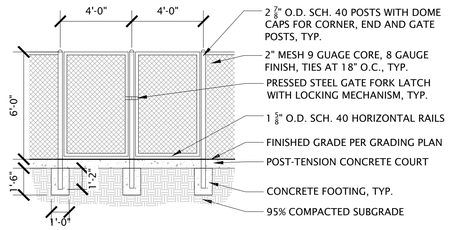


FRONT CROSS SECTION SIDE CROSS SECTION

NOTES
1. ALL PICKLEBALL FENCE POSTS, RAILS, CLAMPS AND HARDWARE SHALL BE POWDERCOATED BLACK.
2. ALL PICKLEBALL CHAINLINK MESH SHALL BE FUSED AND BONDED BLACK VINYL COATED.
3. COURT CONTRACTOR SHALL PROVIDE STAMPED STRUCTURAL POST TENSIONED SLAB DESIGN FOR OWNER REVIEW AND APPROVAL.

2 PICKLEBALL COURT PERIMETER FENCE - 6' TALL

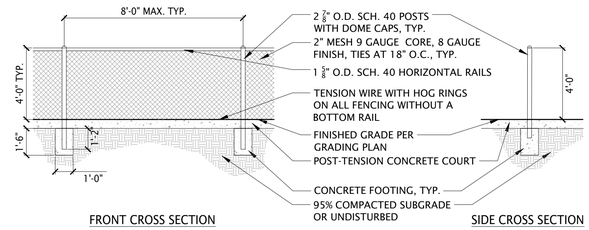
NTS P-22-209-12



NOTES
1. ALL PICKLEBALL FENCE POSTS, RAILS, CLAMPS AND HARDWARE SHALL BE POWDERCOATED BLACK.
2. ALL PICKLEBALL CHAIN LINK MESH SHALL BE FUSED AND BONDED BLACK VINYL COATED.
3. COURT CONTRACTOR SHALL PROVIDE STAMPED STRUCTURAL POST TENSIONED SLAB DESIGN FOR OWNER REVIEW AND APPROVAL.

3 PICKLEBALL MAN-GATES -6' TALL

NOT TO SCALE P-22-209-16

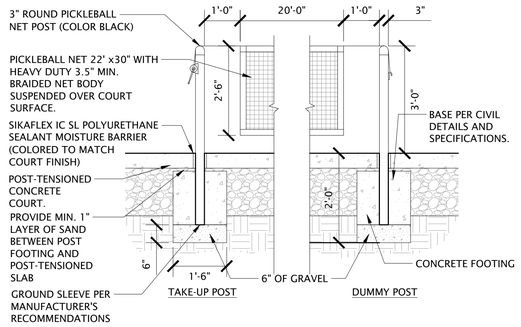


FRONT CROSS SECTION SIDE CROSS SECTION

NOTES
1. ALL PICKLEBALL FENCE POSTS, RAILS, CLAMPS AND HARDWARE SHALL BE POWDERCOATED BLACK.
2. ALL PICKLEBALL CHAIN LINK MESH SHALL BE FUSED AND BONDED BLACK VINYL COATED.
3. COURT CONTRACTOR SHALL PROVIDE STAMPED STRUCTURAL POST TENSIONED SLAB DESIGN FOR OWNER REVIEW AND APPROVAL.

4 PICKLEBALL COURT INTERIOR FENCE - 4' TALL

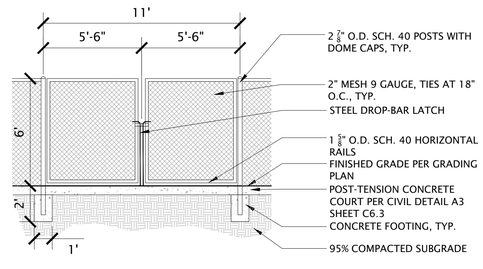
NOT TO SCALE P-22-209-15



PICKLEBALL COURT NOTES:
1. CONTRACTOR SHALL CONSULT MANUFACTURER FOR RECOMMENDED INSTALLATION OF NET POSTS AND SHALL CONSULT WITH OWNER ON VARIATIONS FROM DETAIL.
2. VERTICAL AND HORIZONTAL LOCATIONS OF NET POSTS ON THE COURT SURFACE SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL FEDERATION OF PICKLEBALL (IFP) OFFICIAL TOURNAMENT RULE BOOK.
3. NETS AND POSTS SHALL BE PER SPECIFICATIONS.

5 PICKLEBALL NET AND POSTS

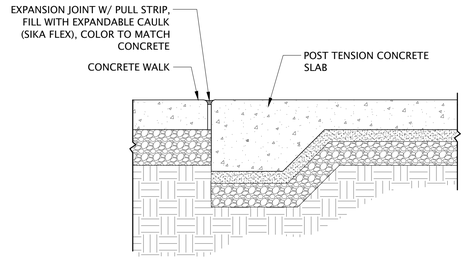
NOT TO SCALE P-22-209-13



NOTES
1. ALL PICKLEBALL FENCE POSTS, RAILS, CLAMPS AND HARDWARE SHALL BE POWDERCOATED BLACK.
2. ALL PICKLEBALL CHAINLINK MESH SHALL BE FUSED AND BONDED BLACK VINYL COATED.

6 PICKLEBALL COURT MAINTENANCE GATE

NOT TO SCALE" P-22-209-67



NOTES:
1. CONCRETE SHALL MEET ALL CITY AND APWA SPECIFICATIONS.
2. CONTRACTOR SHALL SUBMIT STAMPED STRUCTURAL DRAWINGS AND DETAILS FOR POST TENSIONED SLAB FOR REVIEW AND APPROVAL BY OWNER PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.
3. EXPANSION JOINT BETWEEN PT SLAB AND ADJACENT CONCRETE WALK SHALL BE FILLED WITH SIKA FLEX EXPANDABLE CAULK AS APPROVED BY OWNER.

7 EXPANSION JOINT AT POST TENSIONED SLAB

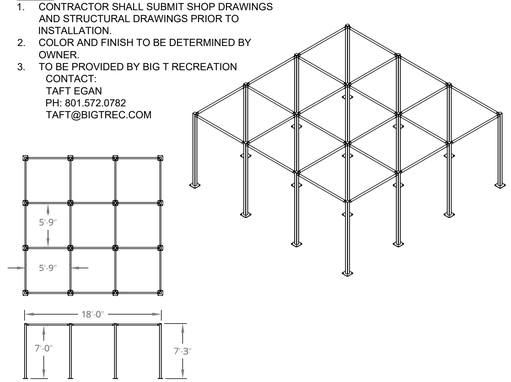
NOT TO SCALE

MANUFACTURER: DOTY & SONS CONCRETE PRODUCTS
MODEL: BYOB5531
DESCRIPTION: REGULATION SIZE, POLISHED CONCRETE. CUSTOM LOGOS AVAILABLE AS ADDITIONAL FEATURE.
COLOR: AS SELECTED BY OWNER.

8 CORNHOLE

NTS P-22-209-97

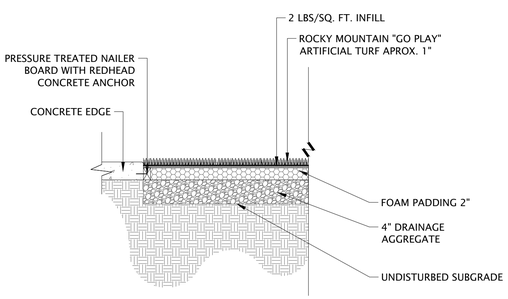
NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL DRAWINGS PRIOR TO INSTALLATION.
2. COLOR AND FINISH TO BE DETERMINED BY OWNER.
3. TO BE PROVIDED BY BIG T RECREATION
   CONTACT:
   TAFT EGAN
   PH: 801.572.0782
   TAFT@BIGTREC.COM



Independence Design Group
Heavy Duty
9 Square in the Air!:
Playground Edition

9 NINE SQUARE

SCALE: NOT TO SCALE P-22-209-23



NOTES:
1. ARTIFICIAL TURF MUST BE INSTALLED AND SEAMED WITH ADJACENT PIECES RUNNING IN THE SAME DIRECTION.
2. CONTRACTOR TO INSTALL PER MANUFACTURERS SPECIFICATIONS.
3. TURF TO HAVE 80 OZ DENSITY MIN.

10 ARTIFICIAL TURF

SCALE: NOT TO SCALE P-22-209-49

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S,
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

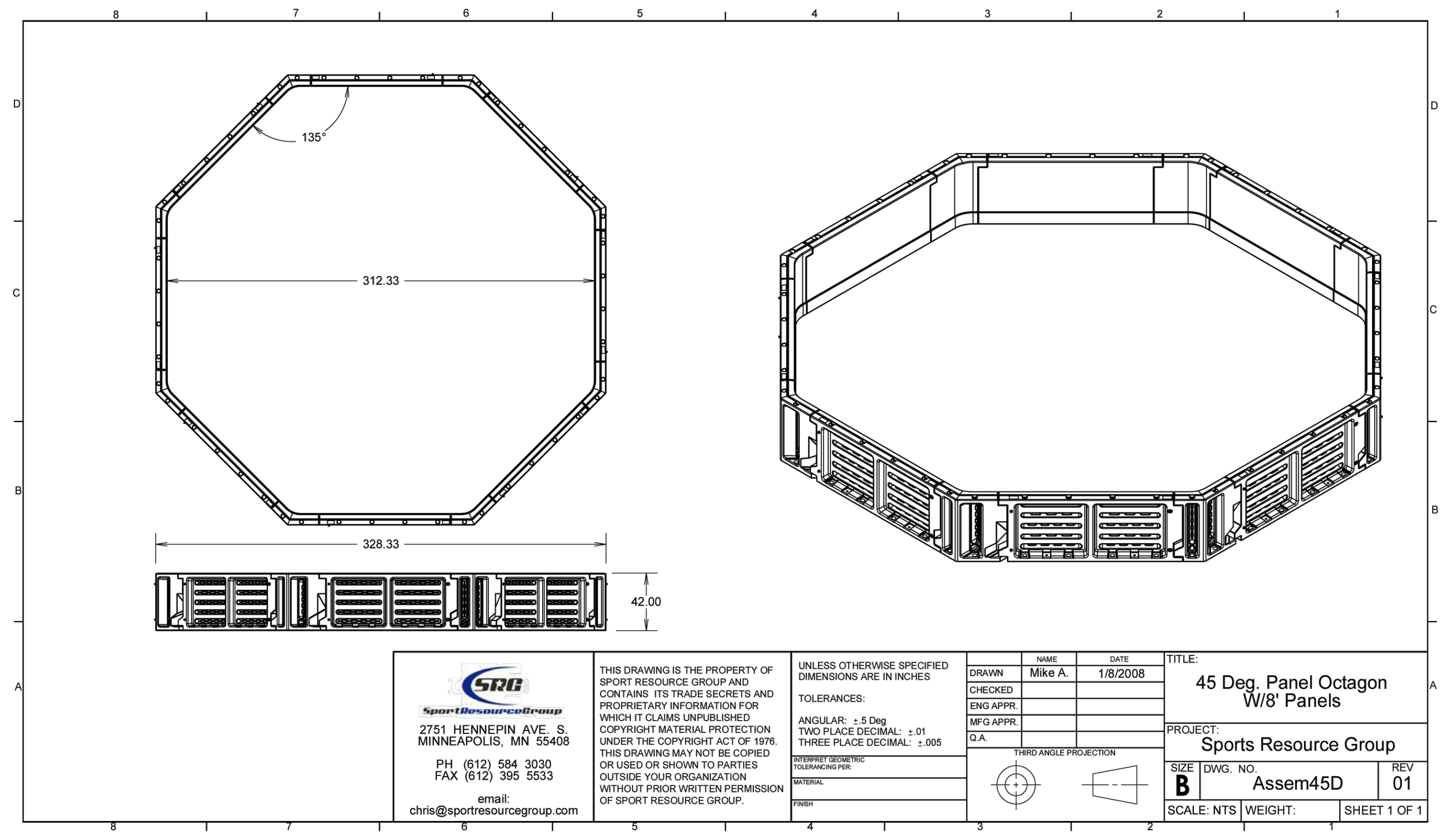
NO.	yy/mm/dd	DESCRIPTION

Stamp
STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title
SITE PLAN DETAILS

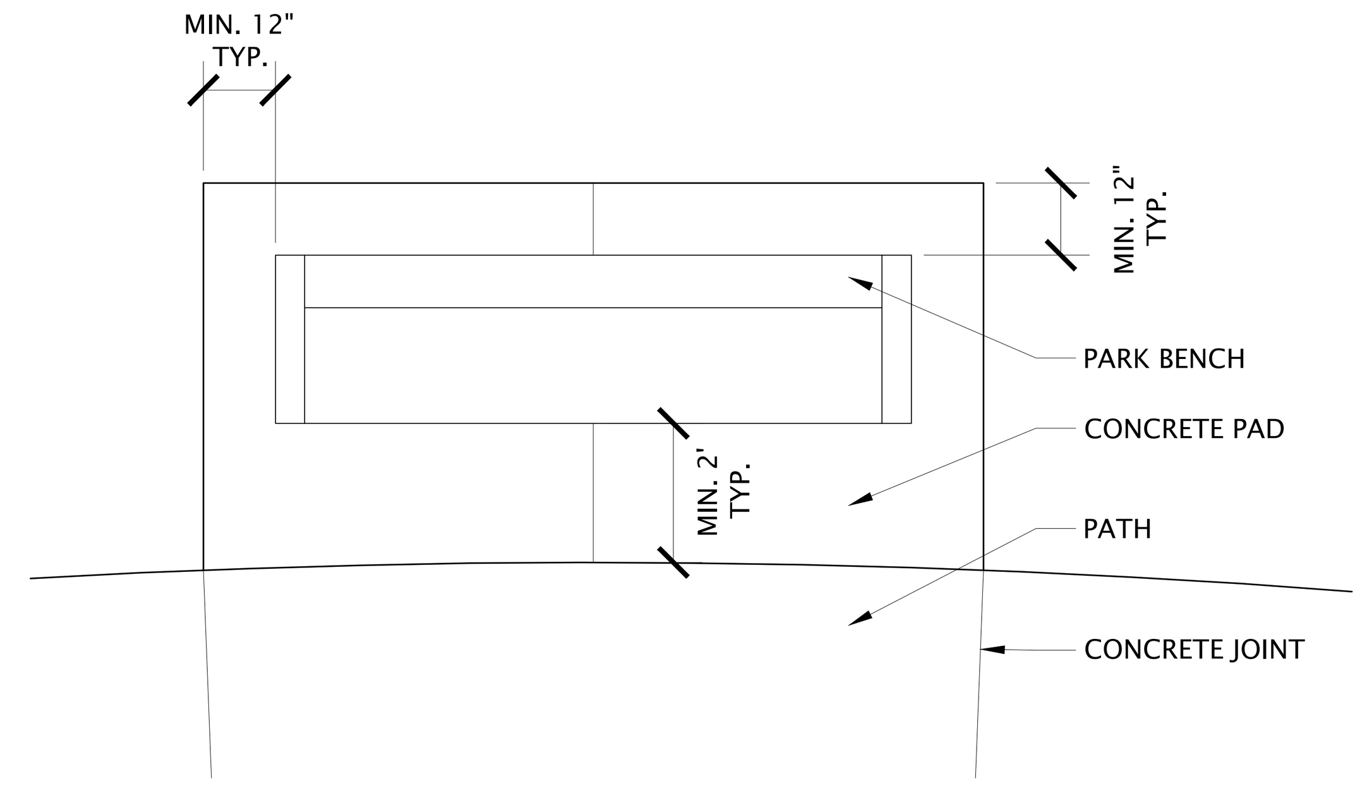
Drawing number
LS502



NOTES:
1. ASSEMBLE PER MANUFACTURER INSTRUCTIONS.
2. SURFACE MOUNT TO CONCRETE.

1 GAGA PIT ASSEMBLY

3/32" = 1'-0" P-22-209-105



NOTES:
1. EXACT BENCH DIMENSIONS VARY BASED ON SELECTED PRODUCT. ADJUST SIZE OF BENCH PAD AS NECESSARY TO MEET MINIMUM OFFSET REQUIREMENTS.
2. INSTALL BENCH PER MANUFACTURER'S RECOMMENDATIONS.
3. BENCH PADS ADJACENT TO PLAYGROUND CURB SHALL HAVE A 1.5" MINIMUM OFFSET AT THE FRONT OF THE PAD.
4. SEE SPECIFICATIONS FOR BENCH MODEL AND MANUFACTURER.

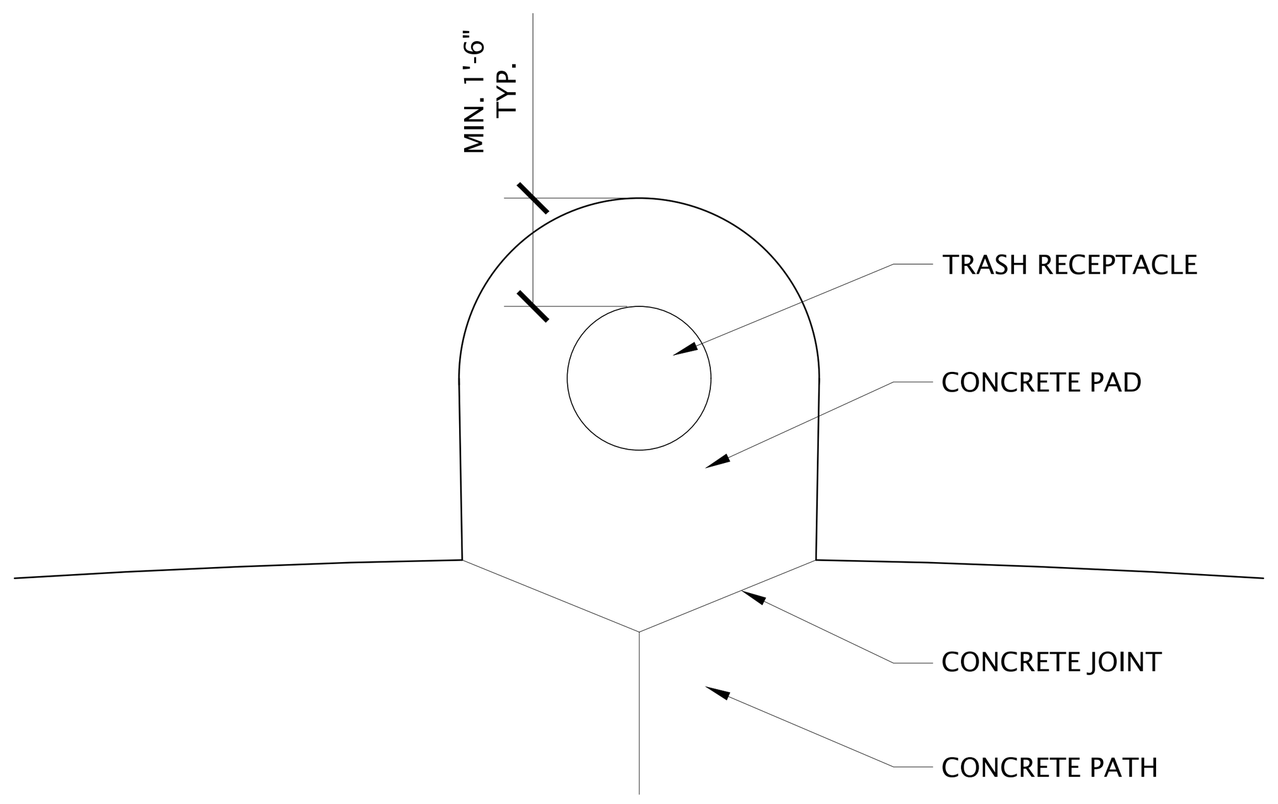
2 BENCH PAD

NOT TO SCALE P-22-209-06

MANUFACTURER: SMITH STEELWORKS
MODEL: CLASSIC BENCH
DESCRIPTION: 6' BENCH WITH BACK & ARMS, VERTICAL SLAT, SURFACE MOUNT. POTENTIAL LOGO INTEGRATION.
COLOR: CORTEN POWDERCOAT

3 PARK BENCH

NTS P-22-209-69



NOTES:
1. TRASH RECEPTACLE SIZE MAY VARY BASED ON SELECTED PRODUCT. ADJUST SIZE OF PAD AS NECESSARY TO MEET MINIMUM OFFSET REQUIREMENTS.
2. INSTALL TRASH RECEPTACLE PER MANUFACTURER'S RECOMMENDATIONS.
3. POUR CONCRETE PAD MONOLITHICALLY WITH ADJACENT CONCRETE PATH.
4. SEE SPECIFICATIONS FOR TRASH RECEPTACLE MODEL AND MANUFACTURER.

4 TRASH RECEPTACLE PAD

NOT TO SCALE P-22-209-22

MANUFACTURER: SMITH STEEL WORKS
MODEL: CLASSIC FLARE TRASH RECEPTACLE
DESCRIPTION: 32 GALLON RECEPTACLE, SLAT WITH LINER, SURFACE MOUNT.
COLOR: CORTEN POWDERCOAT.

5 TRASH RECEPTACLE

NTS P-22-209-26

NOTES:
1. PICNIC TABLE SHALL BE 6' QUALITY SITE FURNITURE'S CLASSIC PICNIC TABLE WITH SLATS OR APPROVED EQUAL. COLOR: CORTEN POWDERCOAT.
2. CONTRACTOR SHALL SUBMIT CUT SHEET AND COLOR SAMPLE FOR OWNER REVIEW AND APPROVAL PRIOR TO ORDER AND INSTALLATION.

6 PICNIC TABLE

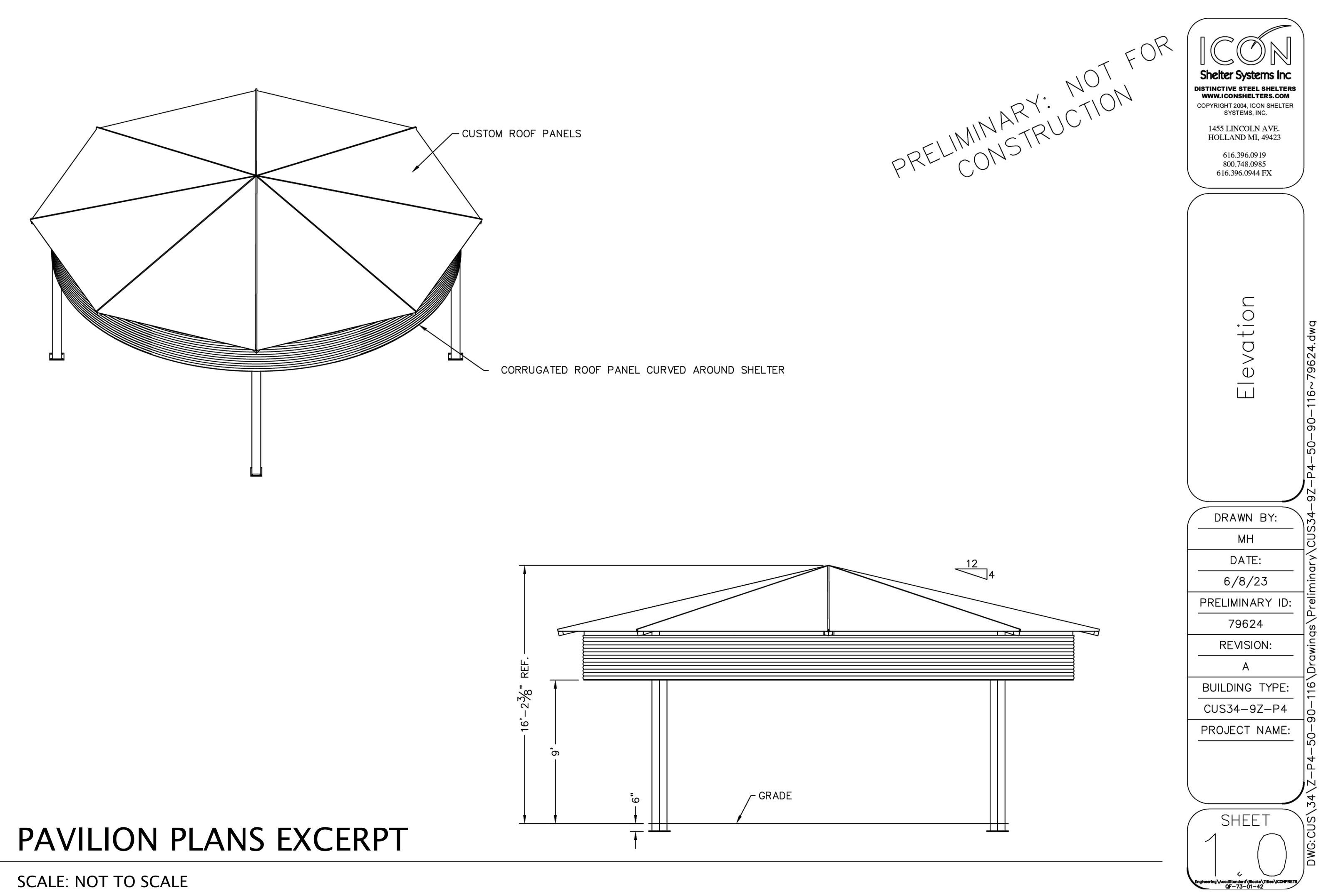
SCALE: NOT TO SCALE P-22-209-52

PAVILIONS TO BE PROVIDED BY BIG T RECREATION.
PAVILIONS TO BE 20' OR 30' IN DIAMETER. SEE SITE PLAN FOR SIZES AND LOCATIONS.

CONTACT: BIG T RECREATION
TAFT EGAN
PH: 801.572.0782
TAFT@BIGTREC.COM

7 PAVILION, TYP.

NTS



8 PAVILION PLANS EXCERPT

SCALE: NOT TO SCALE

WOODEN SILO

NOTES:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SILO INSTALLATION.
2. SILO SHALL MATCH THE STYLE AND LOOK OF THE IMAGE ABOVE.

9 ICONIC FEATURE 1 - BID ALTERNATE

SCALE: NOT TO SCALE P-22-209-109

WOODEN WINDMILL

NOTES:
1. FEATURE TO BE OUTDOOR WATER SOLUTIONS' LARGE WOODEN WINDMILL.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

10 ICONIC FEATURE 2 - BID ALTERNATE

SCALE: NOT TO SCALE P-22-209-108

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S,
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1
401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

N0.	yy/mm/day	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect
12/06/2023

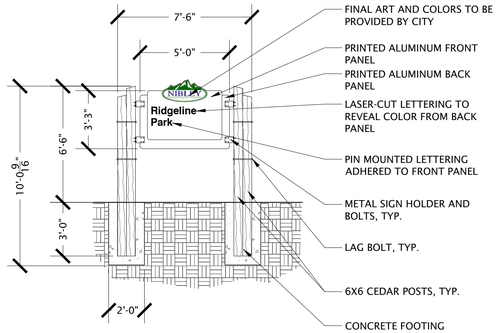
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

SITE PLAN DETAILS

Drawing number

LS503

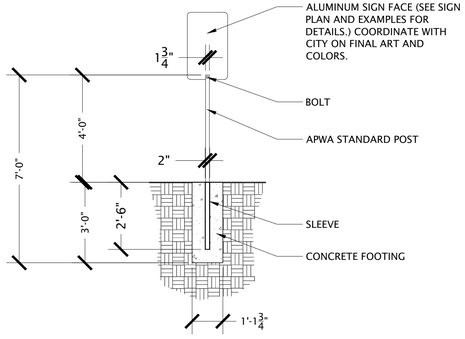


NOTES:
1. ALL COLORS, ARTWORK, ETC. SHALL BE PROVIDED BY CITY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SIGN FOR OWNER REVIEW AND APPROVAL PRIOR TO FABRICATION.
3. POST SHALL BE STAINED AS APPROVED BY CITY.

1 ENTRY SIGN

1/4" = 1'-0" P-22-209-106

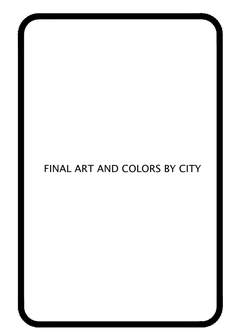
REPRESENTATIVE IMAGE



NOTES:
1. SIGNS MAY VARY IN SIZE. MOUNT ACCORDINGLY SO THAT THE SIGN IS SECURELY BOLTED TO THE POST.
2. ALL COLORS, ARTWORK, ETC. SHALL BE PROVIDED BY THE CITY.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SIGN FOR OWNER REVIEW AND APPROVAL PRIOR TO FABRICATION.
4. POSTS SHALL BE STAINED AS APPROVED BY CITY.

2 SIGN MOUNT, TYP - BID ALTERNATE

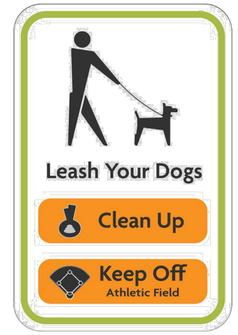
3/8" = 1'-0" P-22-209-107



WAYFINDING

SMOKING SIGN

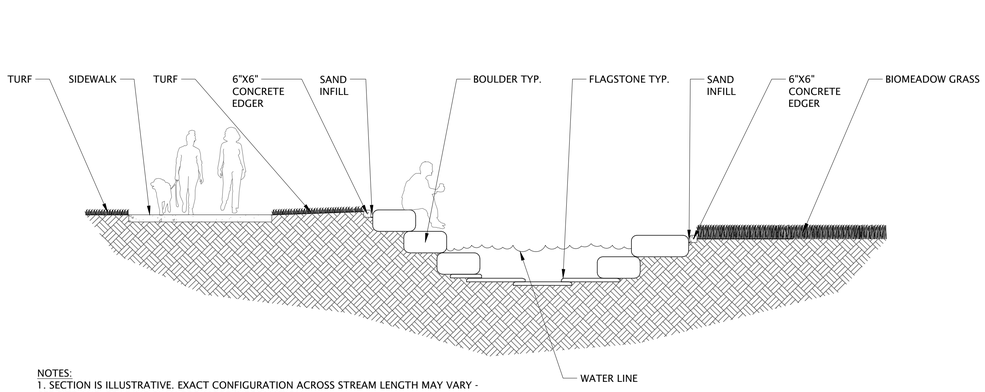
PARKING SIGN



DOG SIGN

3 12"X18" SIGN PANEL TYPICALS - BID ALTERNATES

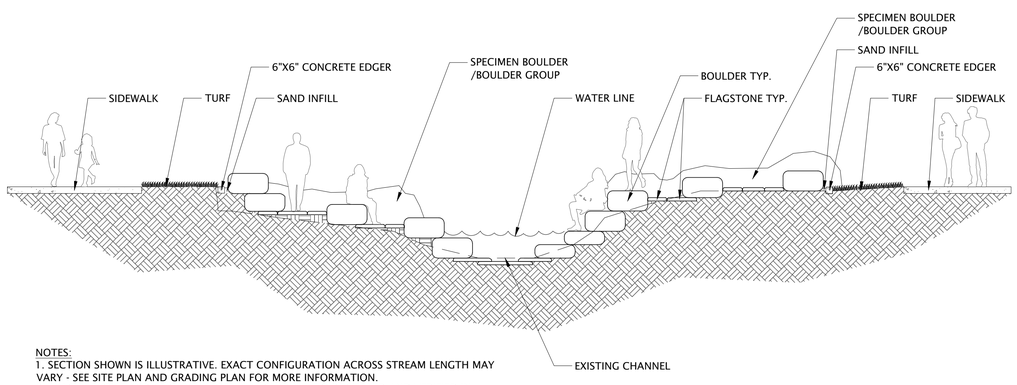
SCALE: NOT TO SCALE



NOTES:
1. SECTION IS ILLUSTRATIVE. EXACT CONFIGURATION ACROSS STREAM LENGTH MAY VARY - SEE SITE AND GRADING PLAN FOR MORE INFORMATION.
2. EXACT LAYOUT AND ALIGNMENT OF FINAL CHANNEL TO BE STAKED AND VERIFIED IN FIELD WITH OWNER PRIOR TO CONSTRUCTION.

4 WATER CHANNEL SECTION 1

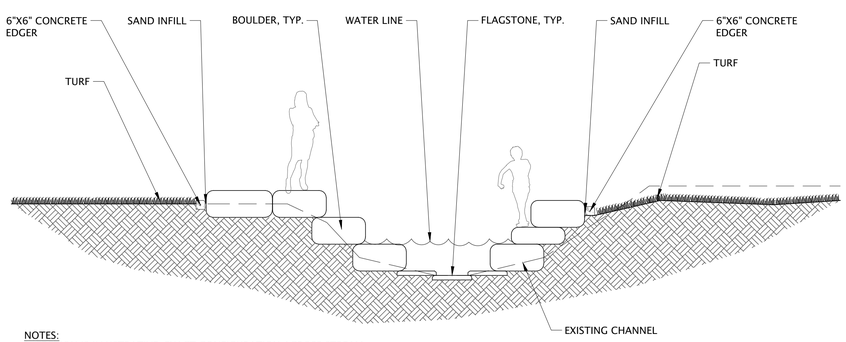
1" = 5' P-22-209-111



NOTES:
1. SECTION SHOWN IS ILLUSTRATIVE. EXACT CONFIGURATION ACROSS STREAM LENGTH MAY VARY - SEE SITE PLAN AND GRADING PLAN FOR MORE INFORMATION.
2. EXACT LAYOUT AND ALIGNMENT OF FINAL CHANNEL TO BE STAKED AND VERIFIED IN FIELD WITH OWNER PRIOR TO CONSTRUCTION.

5 WATER CHANNEL SECTION 2

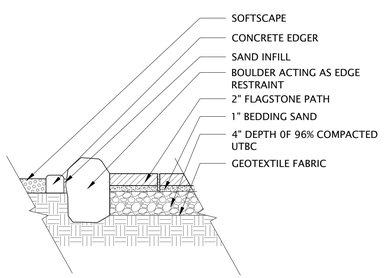
3/16" = 1'-0" P-22-209-70



NOTES:
1. SECTION IS ILLUSTRATIVE. EXACT CONFIGURATION ACROSS STREAM LENGTH MAY VARY - SEE SITE PLAN AND GRADING PLAN FOR MORE INFORMATION.
2. EXACT LAYOUT AND ALIGNMENT OF FINAL CHANNEL TO BE STAKED AND VERIFIED IN FIELD WITH OWNER PRIOR TO CONSTRUCTION.

6 WATER CHANNEL SECTION 3

1/4" = 1'-0" P-22-209-110

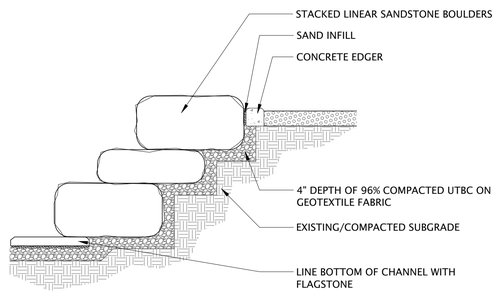


SECTION

NOTES:
1. CONTRACTOR SHALL PROVIDE MOCK UP OF FLAGSTONE SECTIONS SHOWING REPRESENTATIVE COLORS AND SIZING FOR OWNER REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL USE EDGE RESTRAINT ON ALL FLAGSTONE ABUTTING LANDSCAPED AREAS.
3. CONTRACTOR SHALL USE JOINT SAND STABILIZER. PROVIDE PRODUCT CUTSHEET FOR OWNER REVIEW AND APPROVAL.

7 FLAGSTONE AREAS AND EDGE RESTRAINT

SCALE: NTS



NOTES:
1. STACKED LINEAR SANDSTONE SHALL BE CONTINUOUS ALONG BANKS OF WATER CHANNEL. SPECIMEN BOULDERS SHALL BE LARGE NON-LINEAR BOULDERS.
2. ALL STONE SHALL BE BLONDE BROWNS CANYON QUARTZITIC SANDSTONE. LINEAR BOULDERS MAY RANGE FROM 18"-30" IN HEIGHT AND 4'-8' LONG. SPECIMEN BOULDERS MAY VARY IN SIZE, BUT SHALL BE A MINIMUM OF 4' W X 6' LONG.
3. INFILL SAND SHALL BE WASHED, CLEAN COMPACTED SAND.
4. CONTRACTOR REQUIRED TO OBTAIN ALL NECESSARY APPROVALS AND PERMITS TO WORK WITHIN THE CHANNEL.

8 CHANNEL BANK BOULDERS

1/2" = 1'-0" P-22-209-62

REPRESENTATIVE IMAGES

NOTE:
1. IMAGES REPRESENT STACKED STONE WATER CHANNEL BANKS. RIDGELINE PARK WATER CHANNEL WILL NOT HAVE ANY TYPE OF WATERFALL.

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S.
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1
401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

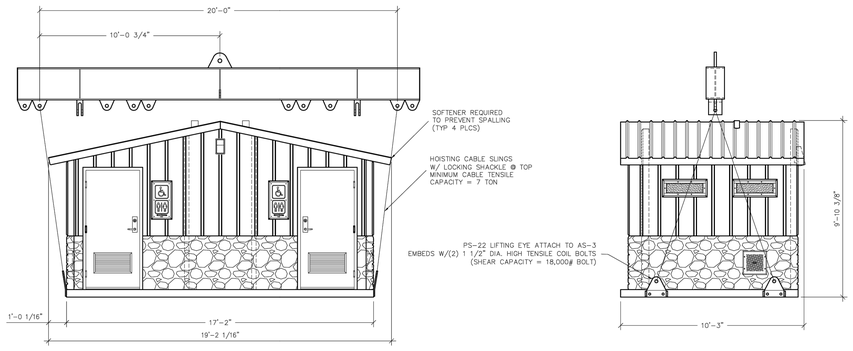
NO.	yy/mm/dd	DESCRIPTION

Stamp
STATE OF UTAH
CORY A. SHUPE
No. 5410044301
Professional Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title
SITE PLAN DETAILS

Drawing number
LS504



FRONT ELEVATION

RIGHT SIDE ELEVATION

SHIPPING WEIGHTS AND DIMENSIONS			
WEIGHT	LENGTH	WIDTH	HEIGHT
44,300	19'-3"	10'-3"	9'-11"

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901 N. Highway 77 Hillsboro, TX 76645
362 Waverly Road Williamstown, WV 26187

PROJECT NO.
CORTEZ
BUILDING NUMBER CR-1654 & CR-1655

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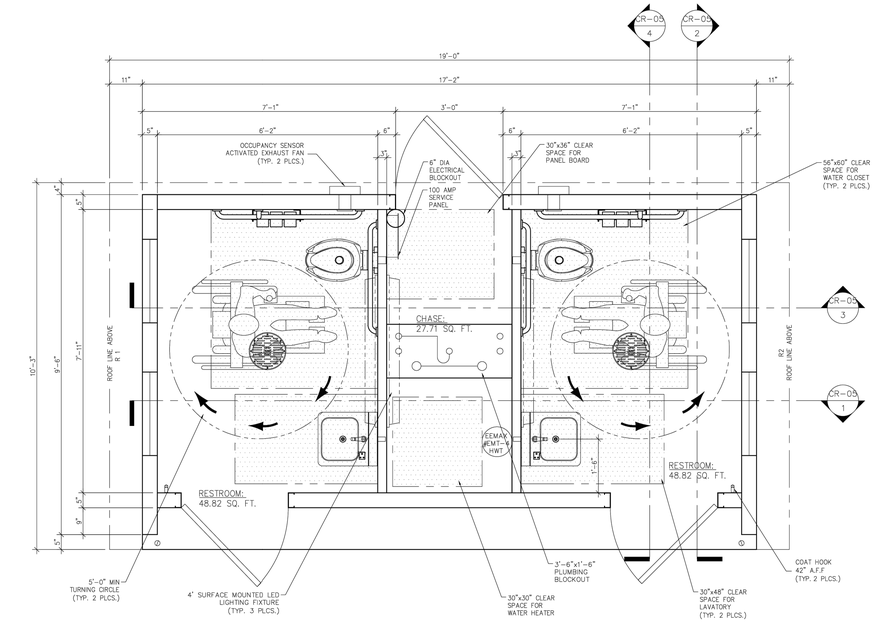
CXT Incorporated

NO.	DESCRIPTION	APPROVAL	DATE
1	CR-11 SMOOKING & ELEC. B.O.	MCT	1-6-23

SCALE	1/4" = 1'-0"	DATE	8-27-2022
DRAWN	J. TURNER	FILE NO.	CR-1654/1655
CHECKED	BRA	PLOT	48

RIGGING DETAIL

DWG NO.	SHEET	REV.
CR-02	2 / 22	1



MATERIALS	
ITEM	QTY
ANCHOR NAIL 3/16x7/8	36
ANCHOR NAIL 1/4x1	12
TP DISPENSER	2
TOILET PAPER ROLL	6
COAT HOOK	2
FLOOR DOOR STOP	2
ONE WAY OVAL 8x1 1/4	4
ANCHOR LEAD 6-8x1	4
CXT I.D. TAG	2
48" GRAB BAR	2
36" GRAB BAR	2
18" GRAB BAR	2

CU. FT. CONC.	SQ. FT. W.M.F.

APPROXIMATE WEIGHT

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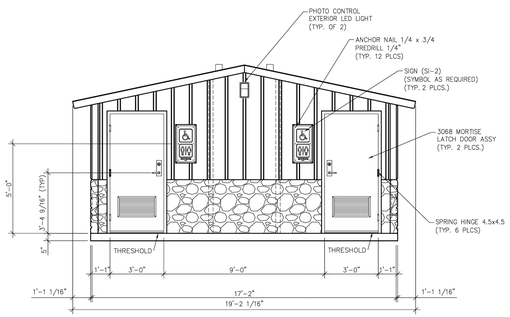
CXT Incorporated

NO.	DESCRIPTION	APPROVAL	DATE
1	CR-11 SMOOKING & ELEC. B.O.	MCT	1-6-23

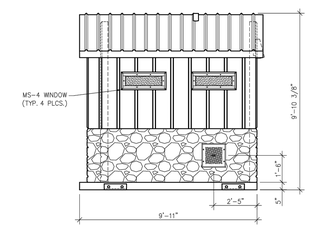
SCALE	1/4" = 1'-0"	DATE	8-27-2022
DRAWN	J. TURNER	FILE NO.	CR-1654/1655
CHECKED	BRA	PLOT	24

FLOOR PLAN

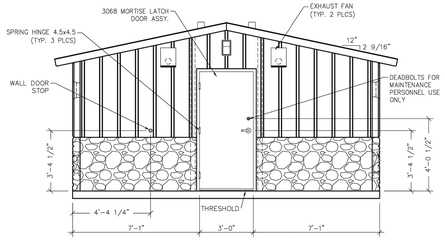
DWG NO.	SHEET	REV.
CR-03	3 / 22	1



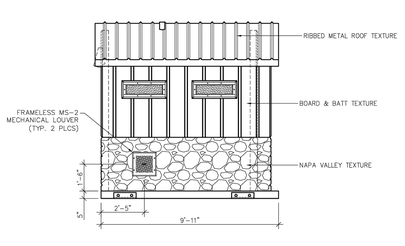
FRONT ELEVATION



RIGHT SIDE ELEVATION



REAR ELEVATION



LEFT SIDE ELEVATION

MATERIALS	
ITEM	QTY
ANCHOR NAIL 1/4x3/4	12
SPRING HINGE 4.5x4.5	9
WALL DOOR STOP	1
MS-4 WINDOW	4
SI-2	2
3068 MORTISE DOOR ASSY	2
3068 DOOR ASSY	1
DOOR LOUVER	2

CU. FT. CONC.	SQ. FT. W.M.F.

APPROXIMATE WEIGHT

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PROJECT NO.
CORTEZ
BUILDING NUMBER CR-1654 & CR-1655

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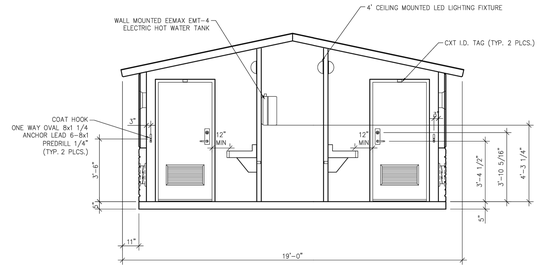
CXT Incorporated

NO.	DESCRIPTION	APPROVAL	DATE
1	CR-11 SMOOKING & ELEC. B.O.	MCT	1-6-23

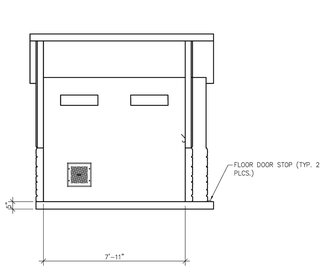
SCALE	1/4" = 1'-0"	DATE	8-27-2022
DRAWN	J. TURNER	FILE NO.	CR-1654/1655
CHECKED	BRA	PLOT	48

BUILDING ELEVATIONS

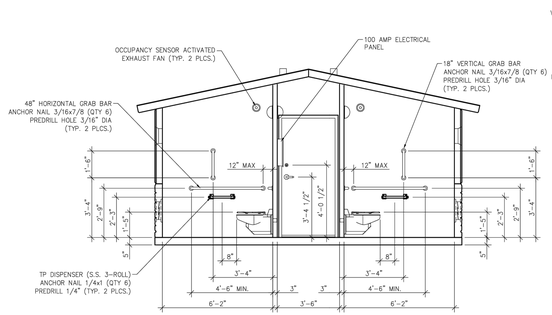
DWG NO.	SHEET	REV.
CR-04	4 / 22	1



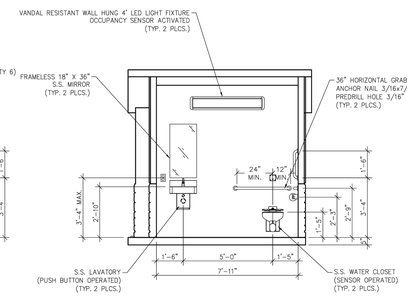
1 INTERIOR ELEVATION – WALL W2



2 INTERIOR ELEVATION – WALL W3 & W4



3 INTERIOR ELEVATION – WALL W1



4 INTERIOR ELEVATION – WALL W5 & W6

MATERIALS	
ITEM	QTY
ANCHOR NAIL 3/16x7/8	36
ANCHOR NAIL 1/4x1	12
TP DISPENSER	2
TOILET PAPER ROLL	6
COAT HOOK	2
FLOOR DOOR STOP	2
ONE WAY OVAL 8x1 1/4	4
ANCHOR LEAD 6-8x1	4
CXT I.D. TAG	2
48" GRAB BAR	2
36" GRAB BAR	2
18" GRAB BAR	2

CU. FT. CONC.	SQ. FT. W.M.F.

APPROXIMATE WEIGHT

CXT INCORPORATED
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ISSUED FOR PRODUCTION BY: MICHAEL C. TOLMAN

LBFoster
CXT® Products

6701 E Flamingo Ave Bldg 300 Nampa, ID 83687
901 N. Highway 77 Hillsboro, TX 76645
362 Waverly Road Williamstown, WV 26187

PROJECT NO.
CORTEZ
BUILDING NUMBER CR-1654 & CR-1655

NOTICE

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CXT Incorporated

NO.	DESCRIPTION	APPROVAL	DATE
1	CR-11 SMOOKING & ELEC. B.O.	MCT	1-6-23

SCALE	1/4" = 1'-0"	DATE	8-27-2022
DRAWN	J. TURNER	FILE NO.	CR-1654/1655
CHECKED	BRA	PLOT	48

INTERIOR ELEVATIONS

DWG NO.	SHEET	REV.
CR-05	5 / 22	1

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design

8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S.
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	SUPERVISOR	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410049-5301
Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

CORTEZ RESTROOM DETAILS

Drawing number

LS505

LEGEND EXISTING

- PROPERTY BOUNDARY
- STORM DRAIN LINE (sd)
- WATER LINE (w)
- IRRIGATION LINE (ir)
- GAS LINE (g)
- SEWER LINE (ss)
- BURIED POWER LINE (e)
- AERIAL POWER LINE (e)
- COMMUNICATION LINE (c)
- CONTOUR MINOR (####)
- CONTOUR MAJOR (####)
- ASPHALT
- OPEN FACE CURB AND GUTTER
- FENCE
- CONCRETE
- EXISTING TO BE REMOVED
- WATER VALVE
- FIRE HYDRANT
- STORMDRAIN BOX
- WATER METER
- SEWER MANHOLE

LEGEND PROPOSED

- WATER LINE (SIZE SHOWN ON PLAN) (W)
- STORM DRAIN LINE (SIZE SHOWN ON PLAN) (SD)
- IRRIGATION LINE (SIZE SHOWN ON PLAN) (IRR)
- GAS LINE (G)
- SANITARY SEWER LINE (SIZE SHOWN ON PLAN) (SS)
- BURIED POWER LINE (E)
- BURIED COMMUNICATION LINE (C)
- CONTOUR MAJOR (####)
- CONTOUR MINOR (####)
- ASPHALT
- CATCH CURB AND GUTTER
- SPILL CURB AND GUTTER
- CONCRETE SIDEWALK.
- BUILDING SETBACK
- WATER VALVE (W)
- FIRE HYDRANT
- SEWER MANHOLE (S)
- WATER METER (W)
- STORMDRAIN BOX
- STORM WATER CATCH BASIN
- PHASE 1 BOUNDARY

CONSTRUCTION DOCUMENTS

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8719 S. Sandy Parkway
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OWNER:
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PH: 435.757.9848

RIDGELINE PARK PHASE 1
401 W ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	DATE/YEAR	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8243186-2202
MICHAEL E. TAYLOR
STATE OF UTAH

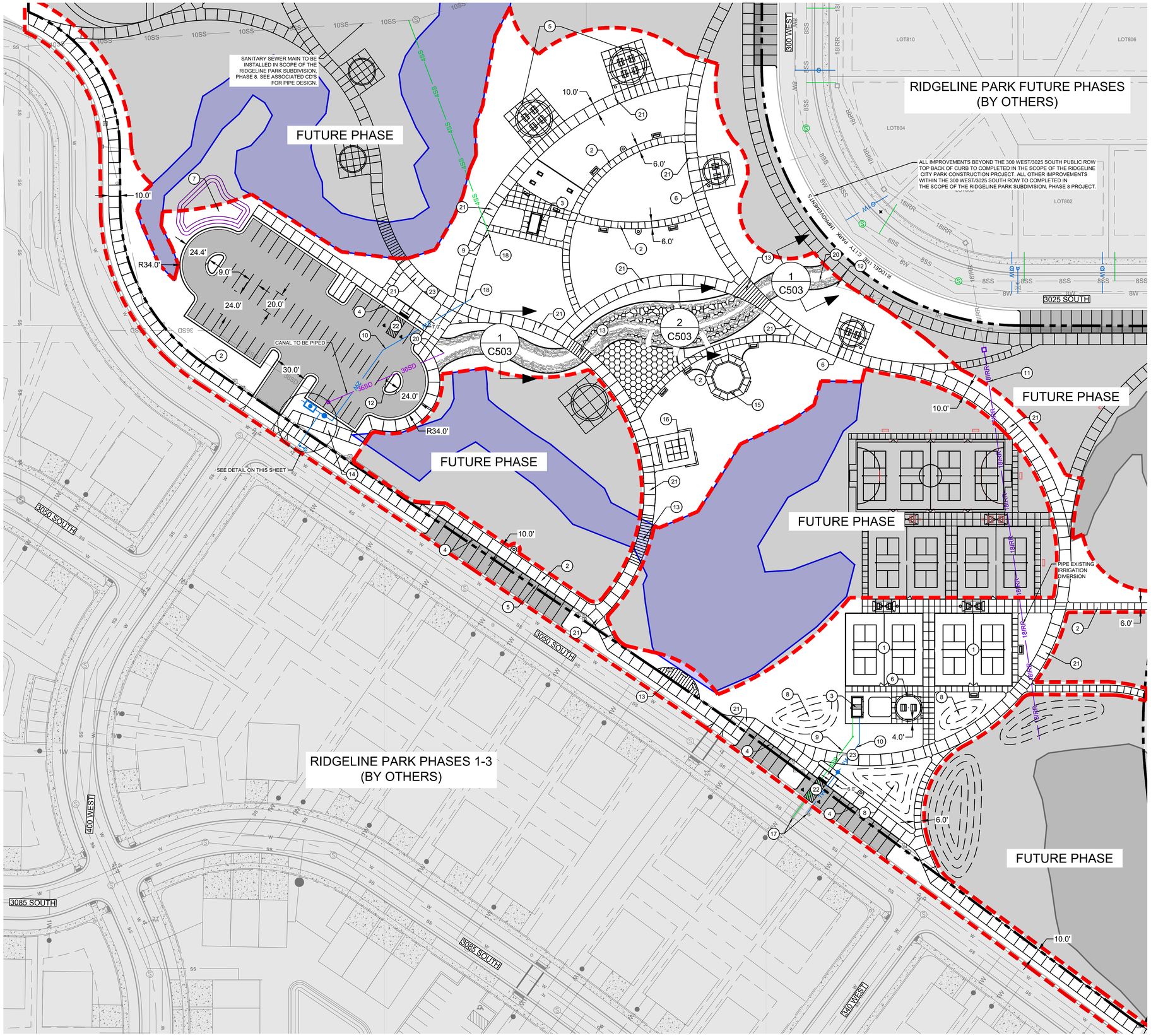
Drawn By:	L. MUMFORD
Date:	12/6/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

LEGEND

Drawing number

C001



GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND CONTACT ENGINEER IF DIFFERENT FROM LOCATIONS DISPLAYED ON THESE PLANS.
2. PROVIDE 11-FT HORIZONTAL SEPARATION BETWEEN CENTERLINES OF WATER & SEWER, 6-FT HORIZONTAL SEPARATION BETWEEN SECONDARY IRRIGATION AND SEWER.
3. ALL SEWER LINES SHALL BE CONSTRUCTED OF PVC SDR-35 MATERIAL IN TYPICAL CONDITIONS. WHERE A SEWER PIPE OR LATERAL PASSES THROUGH OR BENEATH JURISDICTIONAL WETLANDS OR ANY OTHER SURFACE WATERS THE PIPE SHALL BE CONSTRUCTED OF HDPE MATERIAL..
4. SEWER CONNECTIONS TO SEWER MANHOLES SHALL BE GROUTED USING NON-SHRINK GROUT.
5. POWER - CONTRACTOR SHALL COORDINATE WITH OWNER AND ROCKY MOUNTAIN POWER TO DETERMINE PRECISE LOCATION AND LAYOUT OF POWER LINES THROUGH DEVELOPMENT. CONTRACTOR SHALL BE RESPONSIBLE TO TRENCH, BED, INSTALL AND FILL IN THE POWER TRENCH AND PROVIDE THE REQUIRED PVC SCHEDULE 40 CONDUIT.
6. TELEPHONE AND CABLE - CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR LOCATION OF CONDUIT CROSSINGS AND SHALL INSTALL ALL CONDUITS.
7. GAS - CONTRACTOR SHALL COORDINATE INSTALLATION OF GAS WITH DOMINION ENERGY.
8. MECHANICAL JOINT RESTRAINTS (4/C502) AND CONCRETE THRUST BLOCKS (5/C501) ARE TO BE INSTALLED ON ALL PRESSURIZED WATER LINES AT ALL TEES, WYES, BENDS, & HYDRANTS PER NIBLEY CITY STANDARDS AND SPECIFICATIONS.

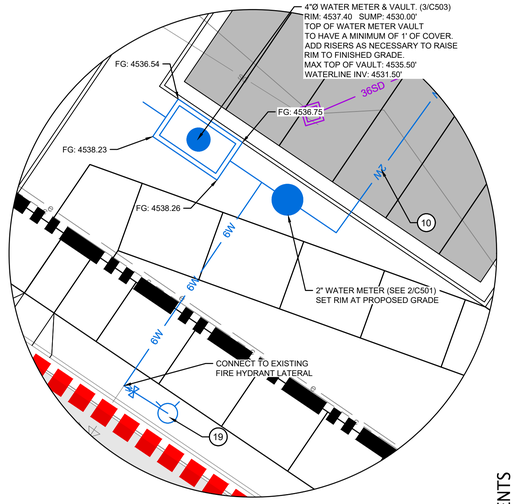
① SITE/ UTILITY SHEET KEY NOTES:

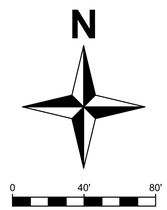
PROVIDE, INSTALL, AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. PICKLEBALL COURTS. SEE LANDSCAPE PLANS.
2. CONCRETE SIDEWALK (TYP.). (SEE 4/C501)
3. PUBLIC RESTROOM
4. ASPHALT PAVEMENT & CURB (SEE 5/C501 & 4/C501)
5. CIRCULAR PAVILLION (33' Ø)
6. CIRCULAR PAVILLION (24' Ø)
7. STORMWATER POND (SEE C301)
8. BERM (SEE LANDSCAPE PLANS)
9. SANITARY SEWER SERVICE (3/C501)
10. CULINARY WATER SERVICE (2/C501)
11. PRIVATE IRRIGATION DIVERSION
12. COLLEGE IRRIGATION CANAL (SEE C301). ADD CONCRETE END SECTION WITH TRASH GUARDS AT END OF PIPE.
13. BOARDWALK
14. STAIRS. (12.5' TRREADS @ 2% WITH 5 (5") STEPS)
15. GAGA BALL PIT
16. 9-SQUARE AREA
17. PATCH ASPHALT
18. CAP & MARK UTILITY STUB FOR FUTURE USE
19. RELOCATE EXISTING FIRE HYDRANT & ADD GATE VALVE
20. FLARED END SECTION AND TRASH GUARD. (3/C502)
21. DRIVE-ABLE CONCRETE WALKWAY (1/C501)
22. ADA PARKING STALL WITH ADA SIGNAGE AND MARKINGS.
23. PERPENDICULAR ADA RAMP. (4/C503)

WATERLINE CONNECTION DETAIL

SCALE: 1" = 10'





CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S
NIBLEY, UT, 84321

CONTACT:
TOM DICKENSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO	DATE	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8243188-2202
MICHAEL E. TAYLOR
STATE OF UTAH

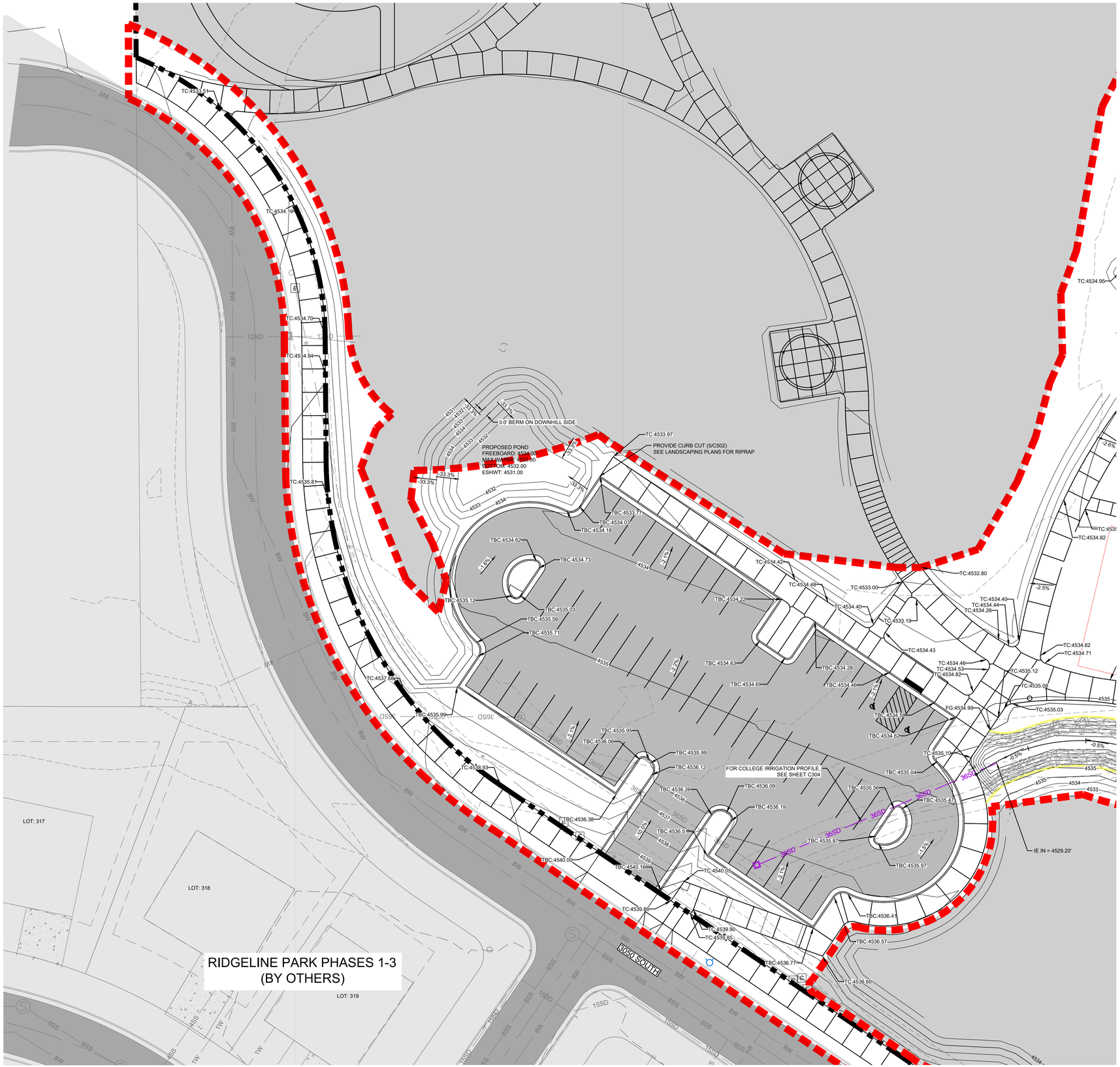
Drawn By:	L. MUMFORD
Date:	12/6/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

SITE & UTILITY

Drawing number

C201



GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND CONTACT ENGINEER IF DIFFERENT FROM LOCATIONS DISPLAYED ON THESE PLANS.
2. MINIMUM 18" OF VERTICAL SEPARATION REQUIRED BETWEEN WATER MAIN AND SEWER MAIN WHERE LINES INTERSECT.
3. MINIMUM OF 10' FROM OUTSIDE-OF-PIPE TO OUTSIDE-OF-PIPE REQUIRED BETWEEN CULINARY WATER LINE AND ALL OTHER WET UTILITIES.
4. ALL IRRIGATION LINES SHALL BE AWWA C900 DR18. ALL IRRIGATION MAINS SHALL BE INSTALLED WITH A MINIMUM OF 3' OF COVER.
5. ALL OPEN ENDED PIPES TO BE INSTALLED WITH FLARED-END SECTION AND TRASH GUARD.

GRADING LEGEND:

FG = FINISHED GRADE
EG = EXISTING GRADE
TA = TOP OF ASPHALT
TC = TOP OF CONCRETE
TBC = TOP BACK OF CURB

STORMWATER CALCULATIONS				
Parking Lot				
Description	Area (sq ft)	Area (ac)	CN (Group B/D)	(SubArea / TotalArea)*CN
Impervious Area	27,415	0.63	98	97
Open Space	260	0.01	71	1
Total Area:	27,675	0.64	98	
Pre Development (Pasture, grassland, or range; good):	27,675	0.64	71	
80th-percentile retention (0.5"):	1,153	cu-ft		
Initial Abstraction		0.05	inches	
for pre dev		0.82	inches	
Precipitation (10 Yr)	24 hour storm	2.04	inches	
Precipitation (25 Yr)	24 hour storm	2.41	inches	
Precipitation (100 Yr)	24 hour storm	3.02	inches	
Direct Runoff (10 Yr)	24 hour storm	1.79	total runoff depth	
for pre dev (10 Yr)	24 hour storm	0.28	total runoff depth	
Direct Runoff (25 Yr)	24 hour storm	2.15	total runoff depth	
for pre dev (25 Yr)	24 hour storm	0.45	total runoff depth	
Direct Runoff (100 Yr)	24 hour storm	2.76	total runoff depth	
for pre dev (100 Yr)	24 hour storm	0.77	total runoff depth	
Post Development				
10-Year Direct Runoff		0.09	acre-ft	4,121 ft3
25-Year Direct Runoff		0.11	acre-ft	4,966 ft3
100-Year Direct Runoff		0.15	acre-ft	6,364 ft3
Pre-Development				
10-Year Direct Runoff		0.01	acre-ft	650 ft3
25-Year Direct Runoff		0.02	acre-ft	1,031 ft3
100-Year Direct Runoff		0.04	acre-ft	1,780 ft3
1275 cf storage provided				

N

0 20' 40'

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NIBLEY, UT. 84321

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NIBLEY

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

NO.	APPROVAL	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8243188-2202
MICHAEL E. TAYLOR
STATE OF UTAH

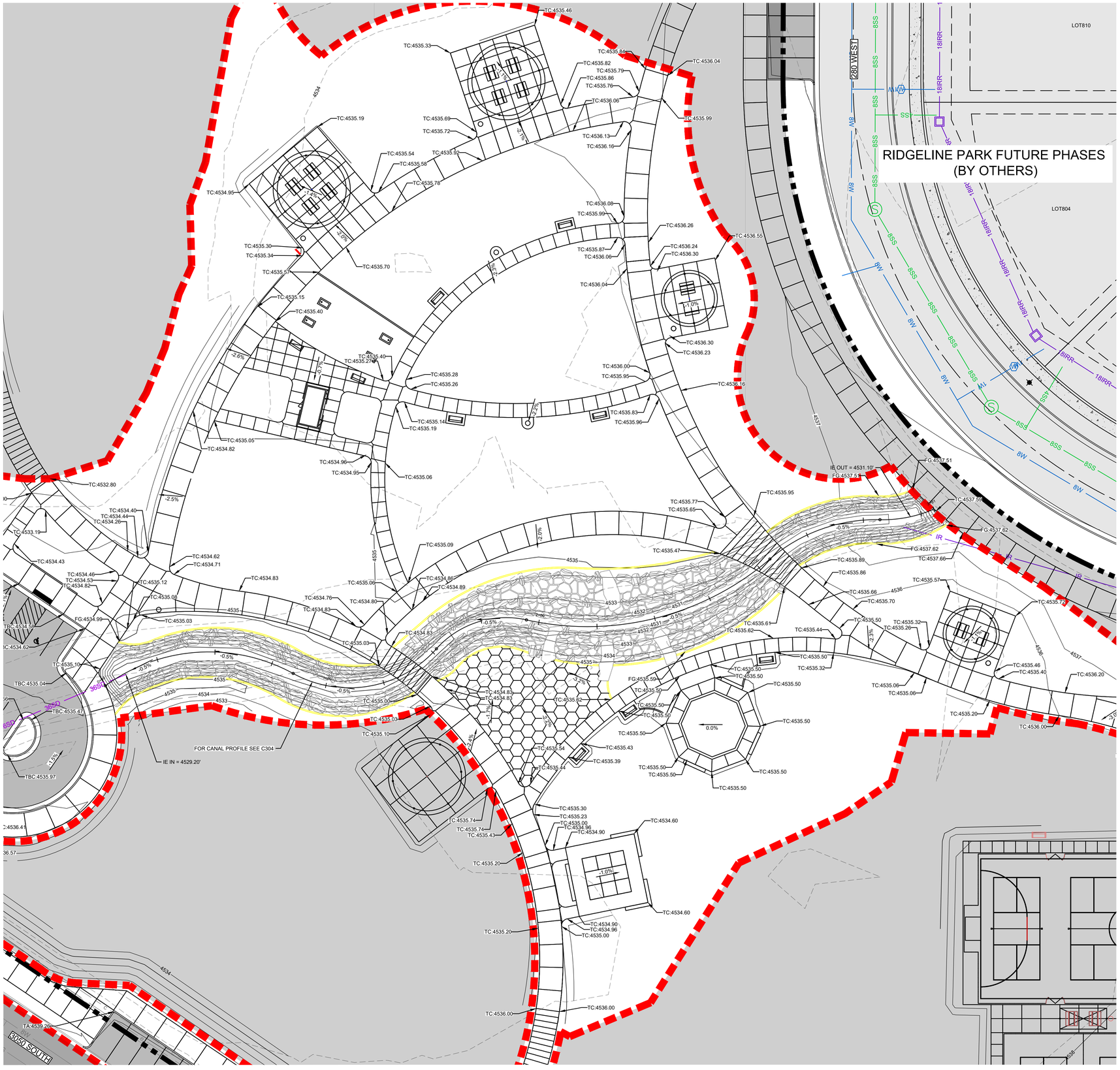
Drawn By:	L. MUMFORD
Date:	12/6/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

GRADING & STORMWATER PLAN

Drawing number

C301



GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND CONTACT ENGINEER IF DIFFERENT FROM LOCATIONS DISPLAYED ON THESE PLANS.
2. MINIMUM 18" OF VERTICAL SEPARATION REQUIRED BETWEEN WATER MAIN AND SEWER MAIN WHERE LINES INTERSECT.
3. MINIMUM OF 10' FROM OUTSIDE-OF-PIPE TO OUTSIDE-OF-PIPE REQUIRED BETWEEN CULINARY WATER LINE AND ALL OTHER WET UTILITIES.
4. ALL IRRIGATION LINES SHALL BE AWWA C900 DR18. ALL IRRIGATION MAINS SHALL BE INSTALLED WITH A MINIMUM OF 3' OF COVER.
5. ALL OPEN ENDED PIPES TO BE INSTALLED WITH FLARED-END SECTION AND TRASH GUARD.

GRADING LEGEND:

FG = FINISHED GRADE
EG = EXISTING GRADE
TA = TOP OF ASPHALT
TC = TOP OF CONCRETE
TBC = TOP BACK OF CURB

N

0 20' 40'

CONSTRUCTION DOCUMENTS

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8719 S. Sandy Parkway
Sandy, UT 84070
p: 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S
NIBLEY, UT. 84321

CONTACT:
TOM DICKENSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

No.	DATE	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8343188-2202
MICHAEL L. TAYLOR
STATE OF UTAH

Drawn By:	L. MUMFORD
Date:	12/6/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

GRADING PLAN

Drawing number

C302

GRADING LEGEND:

FG = FINISHED GRADE
EG = EXISTING GRADE
TA = TOP OF ASPHALT
TC = TOP OF CONCRETE
TBC = TOP BACK OF CURB

N

0 20' 40'

2900 SOUTH

FOR IRRIGATION PROFILE SEE C304

LOT: 203

LOT: 202

LOT: 201

LOT: 214

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design

8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S
NIBLEY, UT. 84321

CONTACT:
TOM DICKENSON
PH: 435.757.9848

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	DATE/YEAR	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8243188-2202
MICHAEL E. TAYLOR
STATE OF UTAH

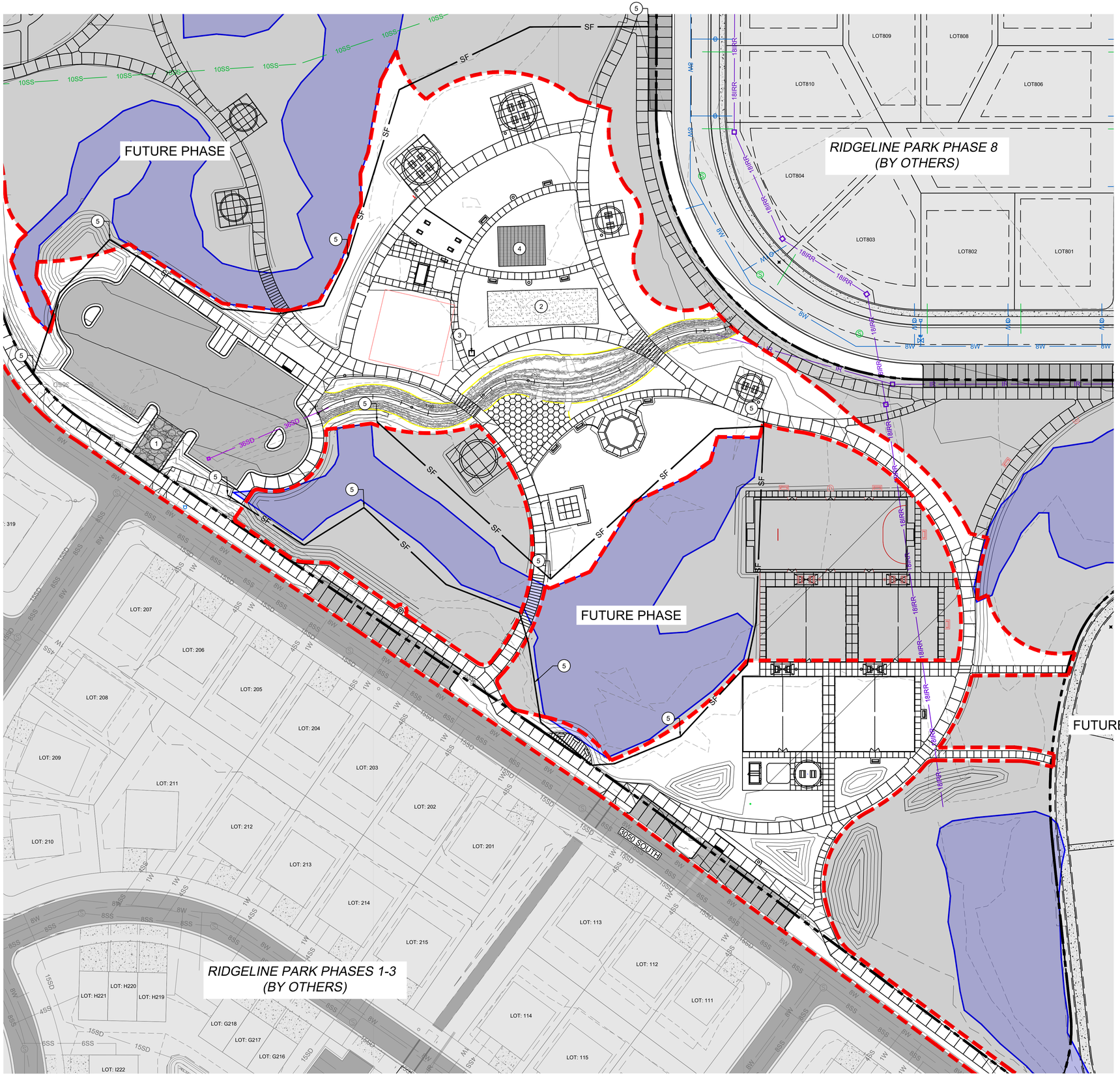
Drawn By:	L. MUMFORD
Date:	12/6/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

GRADING PLAN

Drawing number

C303



1 EROSION CONTROL PLAN SHEET KEY NOTES:

PROVIDE, INSTALL, AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. VEHICLE TRACK OUT PAD
2. MATERIAL STAGING AREA
3. PORTABLE TOILET
4. CONCRETE WASHOUT FACILITY
5. SILT FENCE

GENERAL NOTES:

1. ANY STORM DDRAIN INLETS INSTALLED WITHIN THE PROJECT, OR ANY EXISTING INLET WITHIN 100' OF THE PROJECT, ARE TO HAVE A GRAVEL SOCK OR SILT BAG INSTALLED DURING CONSTRUCTION.
2. ALL SPECIFIED BMP'S TO BE INSTALLED IN ACCORDANCE WITH THE SWPPP.

N

0 40' 80'

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NIBLEY

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

No.	DATE/YR/MO	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8243186-2202
MICHAEL L. TAYLOR
STATE OF UTAH

Drawn By:	L. MUMFORD
Date:	12/12/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

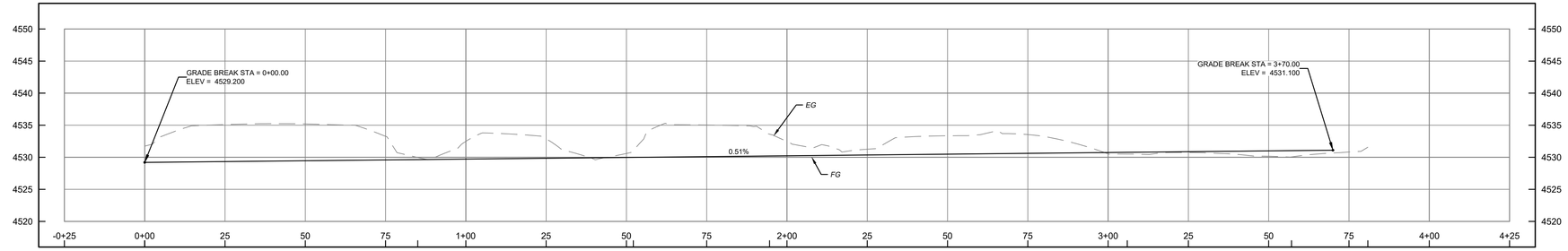
EROSION CONTROL PLAN

Drawing number

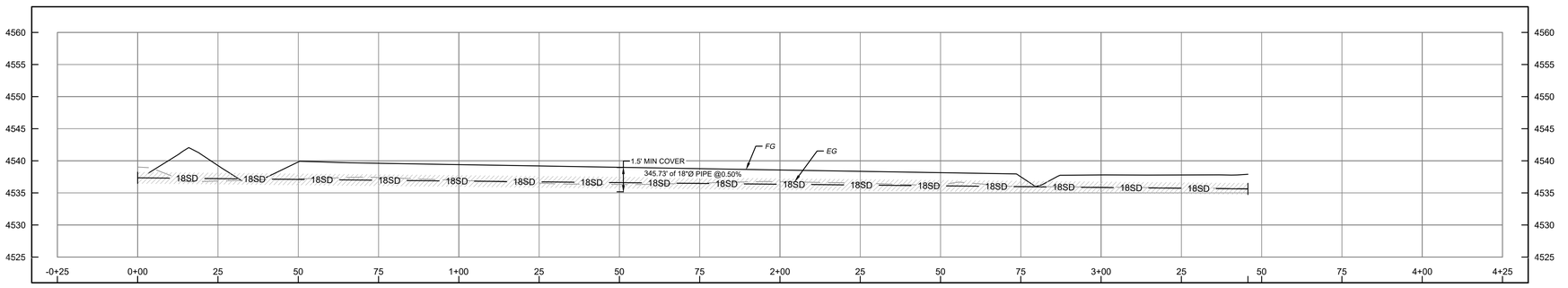
1 OF 1

CONSTRUCTION DOCUMENTS

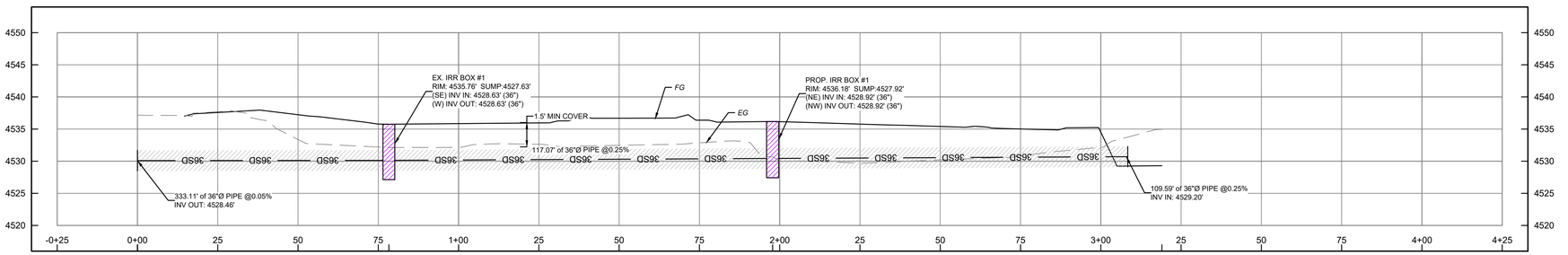
OPEN CANAL PROFILE



DIVERSION PROFILE



COLLEGE IRRIGATION PROFILE



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CONSTRUCTION DOCUMENTS

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	APPROVAL	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8243188-2202
MICHAEL E. TAYLOR
STATE OF UTAH

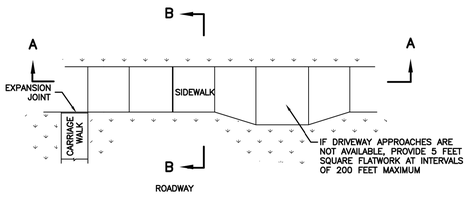
Drawn By:	L. MUMFORD
Date:	12/6/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

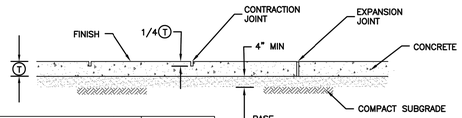
STORMWATER PROFILES

Drawing number

C304



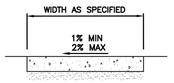
PLAN



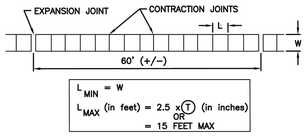
STREET TYPE	T
RESIDENTIAL (WITH PARK STRIP)	4"
RESIDENTIAL (NO PARK STRIP)	6"
OTHER	
REPLACING EXISTING SIDEWALK	MATCH EXISTING (4" MIN.)

SEE DRIVEWAY APPROACH PLANS FOR SIDEWALK THICKNESS AT DRIVEWAYS

SECTION A–A



SECTION B–B



SIDEWALK JOINT DETAIL

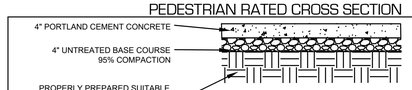
Sidewalk

1. **GENERAL**
   A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
   B. Additional requirements are specified in APWA Section 32 16 13.

2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
   C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
   D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. **EXECUTION**
   A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Concrete Placement: APWA Section 03 30 10.
      1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
      2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
      3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.

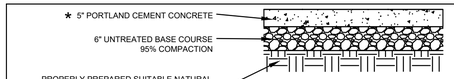
PEDESTRIAN RATED CROSS SECTION



NOTES:
1. PORTLAND CEMENT CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH.
2. CONCRETE SHALL BE AIR ENTRAINED WITH APPROXIMATELY 6 PERCENT AIR.

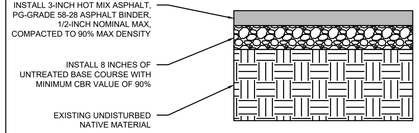
(SEE LANDSCAPE PLANS FOR SCORING PATTERNS)

VEHICLE ACCESS CROSS SECTION



NOTES:
1. PORTLAND CEMENT CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH.
2. CONCRETE SHALL BE AIR ENTRAINED WITH APPROXIMATELY 6 PERCENT AIR.
3. PROVIDE CONTRACTION JOINTS @ 10'-0" O.C.
4. PROVIDE EXPANSION JOINTS @ 50'-0" O.C.

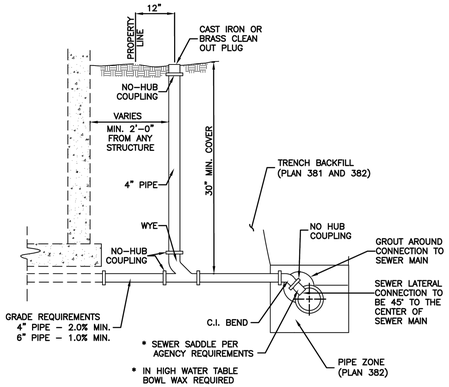
(SEE GEOTECHNICAL INVESTIGATION PERFORMED BY CSG)



*PAVEMENT SHALL CONFORM TO THE GEOTECHNICAL REPORT BY CIVIL SOLUTIONS GROUP.

1 / C501 CONCRETE FLATWORK
NOT TO SCALE

5 / C501 STANDARD DUTY ASPHALT
NOT TO SCALE



Sewer lateral connection

1. **GENERAL**
   A. Before installation, secure acceptance by ENGINEER for all pipe, fittings, and couplings to be used.
   B. Before backfilling, secure inspection of installation by ENGINEER. Give at least 24 hours notice.
   C. Verify if CONTRACTOR or agency is to install the wye.

2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Provide agency approved wye or tee with appropriate donut.
   D. Stainless steel straps required.

3. **EXECUTION**
   A. Tape wrap pipe as required by soil conditions.
   B. Remove core plug from sewer main. Do not break into sewer main to make connection.
   C. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

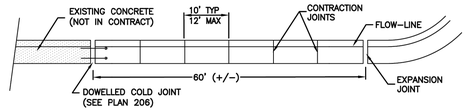
*Per Nibley City amendment if not being connected to a structure at the time of stub from main, lateral must have 45° bend up, and extend to within one foot of the ground surface and capped. If buried, place marker for location.

3 / C501 SANITARY SEWER SERVICE
NOT TO SCALE

1. **GENERAL**
   A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
   B. Additional requirements are specified in APWA Section 32 16 13.

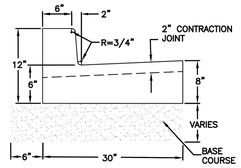
2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
   C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
   D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. **EXECUTION**
   A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent (≤=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Concrete Placement: APWA Section 03 30 10.
      1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
      2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
      3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



JOINT DETAIL

BACKFILL BEHIND CURB BEFORE PAVING AGAINST LIP OF GUTTER



CONCRETE AREA = 1.665 SQ. FT.

Type A

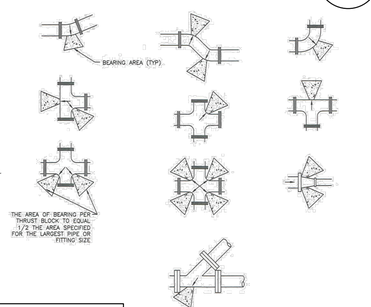
4 / C501 CURB & GUTTER
NOT TO SCALE

Direct bearing thrust block

1. **GENERAL**
   A. Thrust design for pipe sizes or configurations not shown require special design.
   B. Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.
   C. Restraint sizing is based upon a maximum operating pressure of 150 psi and a test pressure of 200 psi, and a minimum soil bearing strength of 2,000 psf. Operating pressures in excess of 150 psi or soils with less than 2,000 pound bearing strength will require special design.
   D. Before backfilling around thrust block, secure inspection of installation by ENGINEER.

2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B.
   Backfill: Common fill, APWA Section 31 05 13. BORROW Maximum particle size 3-inches.
   C. Thrust Bocks: Concrete Class 4000, APWA Section 03 30 04.
   D. Grease: Non-oxide poly-FM.

3. **EXECUTION**
   A. Pour concrete against undisturbed soil.
   B. Pipe Joints: Do not cover with concrete. Leave completely accessible.
   C. Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet and tape wrap.
   D. Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
   E. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.



1. Water Design Standards require mechanical joint restraints designed by the engineer of record and installed in accordance with manufacturer's installation instructions.
2. Where installation of mechanical joint restraints is not possible for new connections and/or for existing piping systems, the design engineer shall provide engineering calculations and details for construction of concrete thrust blocks.
3. APWA Plan 561 is strictly for reference and guidance for repairs and conditions where a design engineer is not available.

Nibley City Amendment:
1. Where the entire piping system is installed with engineer designed mechanical joint restraints, an additional 1.5 to 2.0 square foot concrete thrust block shall be provided.

SIZE OF PIPE	MINIMUM BEARING AREA IN SQ. FT.				
	TEES, VALVES, DEAD ENDS	90° BENDS	45° BENDS	22-1/2° BENDS	11-1/2° BENDS
6"	5	7.5	4	2	1

Nibley City Amendment:
1. Where the entire piping system is installed with engineer designed mechanical joint restraints, an additional 1.5 to 2.0 square foot concrete thrust block shall be provided.

5 / C501 THRUST BLOCKING DETAIL
NOT TO SCALE

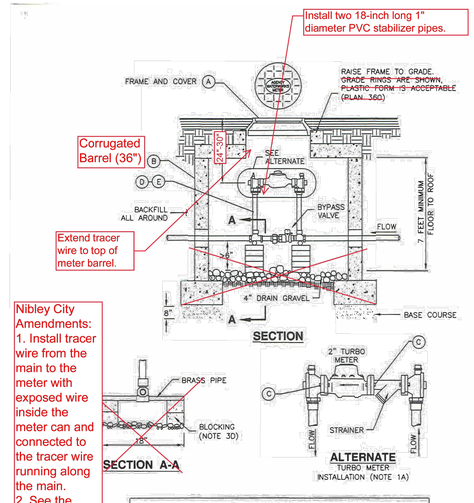
~~1 1/2" and 2" meter~~

1. **GENERAL**
   A. ~~Turbine~~ MAG meters are required on all systems used exclusively for irrigation or fire protection.
   B. Where domestic use is applicable, use a standard meter.
   C. Before backfilling, secure inspection of installation by ENGINEER.

2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Backfill: Common fill, APWA Section 31 05 13. BORROW Maximum particle size 3-inches.
   C. Castings: Grey iron class 35 minimum per ASTM A48, coated with asphalt based paint or better.

3. **EXECUTION**
   A. Meter Placement:
      1) All meters are to be installed in the park strip or within 7 feet of the property line ~~(street side)~~ in the Parkstrp. Locate in PUE directly behind sidewalk if there is a swale or no parkstip available. Meter shall be installed at the corner of a lot 5-feet from property line.
      2) Do not install meters under driveway approaches, sidewalks, or curb and gutter.
      3) In new construction, install meter at ~~center of lot or per agency requirements~~.
   B. Meter Box: Set box so grade of the frame and cover matches the grade of the surrounding surface.
   C. Bypass Valve: Lock in off position.
   ~~D. Blocking: Use clay brick or concrete block.~~
   ~~E. Concrete Box:~~ Meter Barrel: 36" corrugated HDPE, PVC, or other as approved.
      1) Center frame and cover over water meter.
      2) Allow 1-inch clearance around waterline where water line passes through ~~concrete box~~ wall. Seal opening with compressible seal.
   F. Pipe Outside of Right-of-Way: Coordinate with utility agency or adjacent property owner for type of pipe to be used outside of right-of-way.
   G. Base Course and Backfill Placement: Maximum lift thickness before compaction is 8-inches. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

Nibley City Amendments:
1. Install tracer wire from the main to the meter with exposed wire inside the meter can and connected to the tracer wire running along the main.
2. See the Nibley City Approved Materials List (APL) for information on specific product types and manufactures.



Nibley City Amendments:
1. Install tracer wire from the main to the meter with exposed wire inside the meter can and connected to the tracer wire running along the main.
2. See the Nibley City Approved Materials List (APL) for information on specific product types and manufactures.

No.	*	ITEM	DESCRIPTION
A		22" FRAME AND COVER 38"	PLAN ~~562~~ 503
B		HDPE BARREL- 36" X 48"	
C		STAINLESS STEEL METER BOLTS	5/8" x 2 3/4" BRASS
D		~~1 1/2" CUSTOM SETTER WITH BYPASS~~	
E		2" CUSTOM SETTER WITH BYPASS	

LEGEND

* FURNISHED BY UTILITY AGENCY

Utah Chapter

~~1 1/2" and 2" meter~~

Plan 522 August 2001

2 / C501 2" Ø WATER METER
NOT TO SCALE

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S
NIBLEY, UT, 84321

CONTACT:
TOM DICKENSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

NO.	BY/PHASE	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8243188-2202
MICHAEL E. TAYLOR
STATE OF UTAH

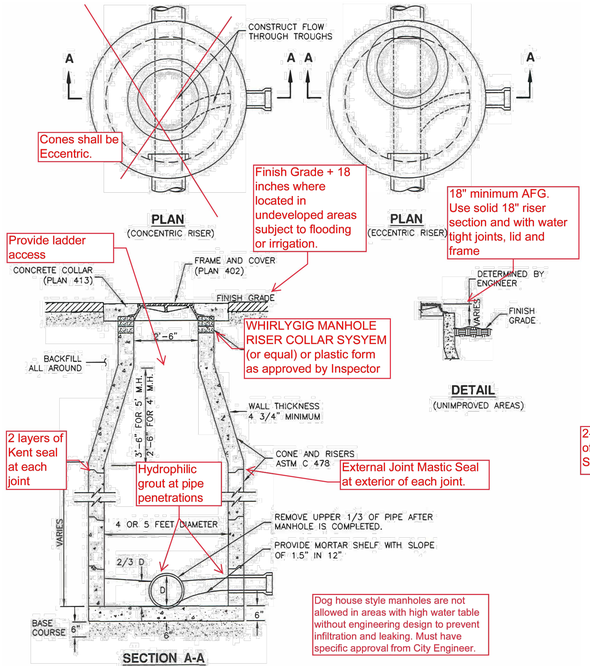
Drawn By:	L. MUMFORD
Date:	12/6/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

DETAILS

Drawing number

C501



1 C502

SANITARY SEWER MANHOLE DETAIL

NOT TO SCALE

Sanitary sewer manhole

1. GENERAL

A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.

B. Manhole size.
   1) Diameter is 4 feet: For sewers under 12" diameter.
   2) Diameter is 5 feet: For sewers 12" and larger, or when 3 or more pipes intersect the manhole or manholes that receive force main discharges.

2. PRODUCTS

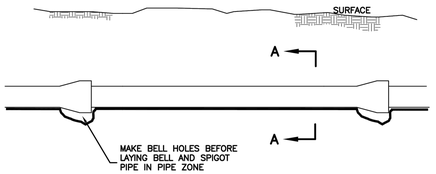
A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
B. Backfill: Common fill, APWA Section 31 05 13. BORROW Maximum particle size 3-inches.
C. Concrete: Class 4000, APWA Section 03 30 04.
D. Riser and Reducing Riser: ASTM C478.
E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
F. Grout: 2 parts sand to 1 part cement mortar, ASTM C1329 with hydrophilic additive (water stop).
G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
J. Exterior joint seal: Manhole Exterior Joint Mastic Seal. See Approved Materials List Sewer

Manholes receiving discharge from forced main sewers shall be constructed with anchored HDPE liner. See Approved Materials List Sewer Collections

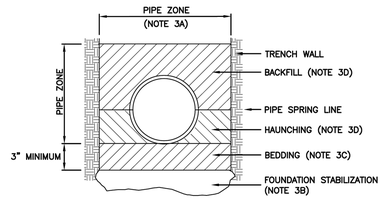
3. EXECUTION

A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a granular backfill borrow in a geotextile wrap to stabilize an unstable foundation.
B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
C. Invert Cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
D. Pipe Connections: Grout around all pipe openings with hydrophilic additive (water stop).
E. Pipe Seal. Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
F. Joints: Place flexible gasket-type sealant in all riser joints. Finish with grout.
G. Adjustment: If the required manhole adjustment is more than 1'-6", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.
H Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
I. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
J. Manholes located in undeveloped or landscaped areas subject to flooding or irrigation must be installed at least 18-inches higher that finished ground elevation. The manhole shall be provided with a water tight solid locking or bolted manhole cover.

2- layers of KENT Seal



ELEVATION VIEW



SECTION A–A

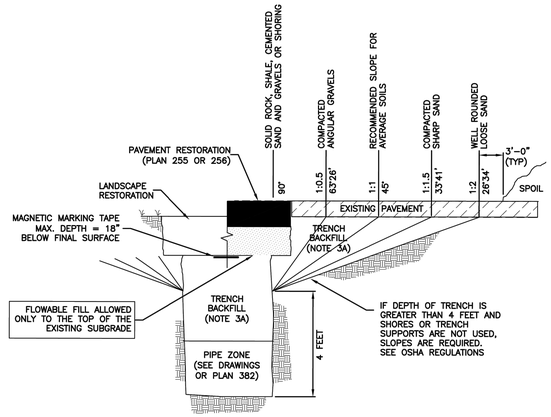
INSTALLATION

CONCRETE PIPE: FOLLOW ASTM C 1479
"STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS.

PVC AND HDPE PIPE: FOLLOW ASTM D 2321
"STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS"

CORRUGATED METAL PIPE: FOLLOW ASTM A 798
"STANDARD PRACTICE FOR INSTALLING FACTORY-MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.

VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.
"STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.



Pipe zone backfill

1. GENERAL

A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.

2. PRODUCTS

A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
C. Concrete: APWA Section 03 30 04.
D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

3. EXECUTION

A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
C. Base Course:
   1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
   2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   3) When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.
D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
   1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.
   2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
E. Flowable Fill (when required and if allowed by pipe manufacturer):
   1) Place the controlled low strength material, APWA Section 31 05 15.
   2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
   3) Reset pipe to line and grade if pipe "floats" out of position.

* Per Nibley City amendment does not flowable fill without written prior approval by Public Works Director .

1. GENERAL

A. The drawing applies to backfilling the trench above the pipe zone.

2. PRODUCTS

A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.

3. EXECUTION

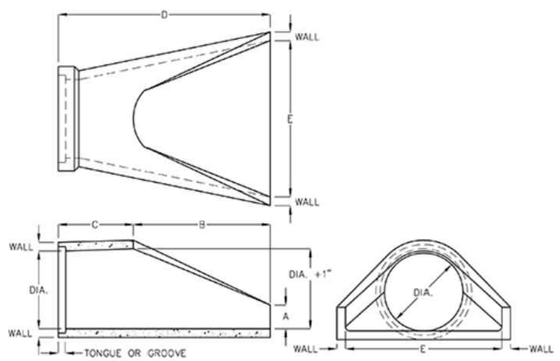
A. Trench Backfill:
   1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
   2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
   3) Water jetting is NOT allowed.
   4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
C. Surface Restoration:
   1) Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
   2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).

* Per Nibley City amendment does not flowable fill without written prior approval by Public Works Director .

2 C502

UTILITY TRENCHING DETAIL

NOT TO SCALE

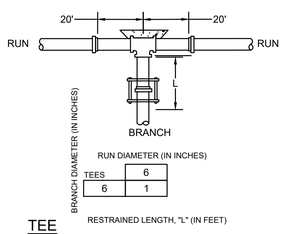


DIA.	WALL	TONGUE OR GROOVE	WEIGHT	A	B	C	D	E	DIA. +1
15"	2 1/4"	2"	970	6"	27"	46"	73"	30"	16"
18"	2 1/2"	2 1/2"	1340	9"	27"	46"	73"	36"	19"
24"	3"	2 1/2"	1820	9 1/2"	43 1/2"	30"	73 1/2"	48"	25"
30"	3 1/2"	3"	2400	12"	54"	19 3/4"	73 3/4"	60"	31"
36"	4"	3 1/2"	5500	15"	63"	34 3/4"	97 3/4"	72"	37"
42"	4 1/2"	4"	6300	21 1/2	67"	41 1/2"	103 1/2"	76"	43"

3 C502

CONCRETE PIPE FLARED END SECTION

NOT TO SCALE



TEE

NOTES:
1. RESTRAINT THE TWO MECHANICAL JOINTS ON THE RUN SIDE OF THE TEE. THERE SHOULD BE A FULL 20' LENGTH OF PIPE INSTALL ON EACH SIDE OF THE RUN.
2. ALL JOINTS WITHIN THE LENGTH "L" ON THE BRANCH MUST BE RESTRAINED. USE RETAINER GLAND AT MECHANICAL JOINTS AND HARNESS ON PUSH-ON PIPE PER CITY SPECIFICATION.
3. FOR TEE ON EXISTING WATER LINE, USE THRUST BLOCK PER DETAIL 1 ON SHEET C504.

JOINT RESTRAINT CALCULATION ASSUMPTIONS:

1. CLASS 5 TRENCH
2. SOIL TYPE: CL
3. TEST WATER PRESSURE: 250 PSI
4. SAFETY FACTOR: 1.5 TO 1
5. DEPTH OF BURY: 5-FT
6. VERTICAL BEND OFFSET: 5-FT

ADDITIONAL NOTES:

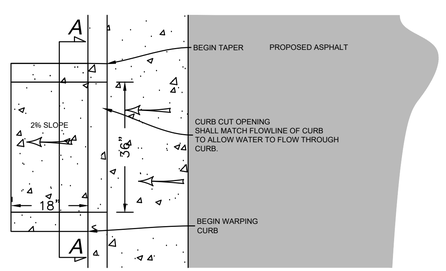
IN ADDITION TO SUPPORT PROVIDED BY JOINT CONSTRAINTS, CONTRACTOR SHALL ALSO INSTALL THRUST BLOCKS AT ALL TEES, WYES, BENDS, ANGLES, ETC.

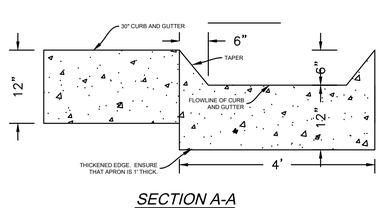
ALL THRUST BLOCKS SHALL PROVIDE A MINIMUM BEARING AREA OF 1.5 TO 2.0 SQUARE FEET.

4 C502

JOINT RESTRAINTS

NOT TO SCALE





SECTION A-A

NOT TO SCALE

5 C502

CURB CUT SCUPPER

NOT TO SCALE

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S
NIBLEY, UT. 84321

CONTACT:
TOM DICKENSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

NO.	DATE	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER
No. 8243188-2202
MICHAEL E. TAYLOR
STATE OF UTAH

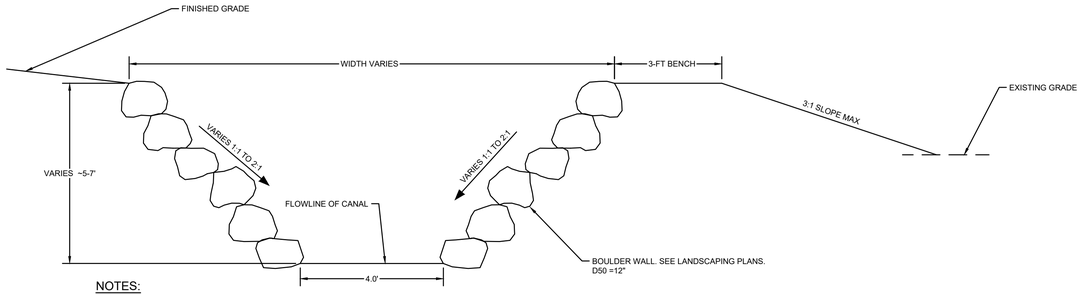
Drawn By:	L. MUMFORD
Date:	12/6/2023
Checked By:	M. TAYLOR
Project No:	22-270

Drawing Title

DETAILS

Drawing number

C502

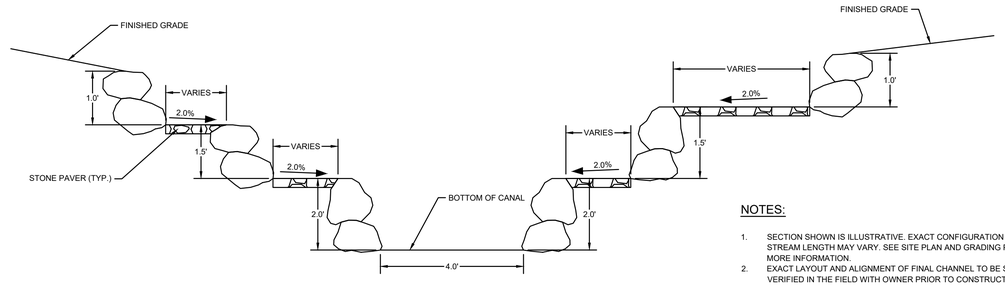


NOTES:

1. SECTION SHOWN IS ILLUSTRATIVE. EXACT CONFIGURATION ACROSS STREAM LENGTH MAY VARY. SEE SITE PLAN AND GRADING PLAN FOR MORE INFORMATION.
2. EXACT LAYOUT AND ALIGNMENT OF FINAL CHANNEL TO BE STAKED AND VERIFIED IN THE FIELD WITH OWNER PRIOR TO CONSTRUCTION.

1 / C503 — REPRESENTATIVE CANAL CROSS SECTION WEST/EAST ENDS

NOT TO SCALE



NOTES:

1. SECTION SHOWN IS ILLUSTRATIVE. EXACT CONFIGURATION ACROSS STREAM LENGTH MAY VARY. SEE SITE PLAN AND GRADING PLAN FOR MORE INFORMATION.
2. EXACT LAYOUT AND ALIGNMENT OF FINAL CHANNEL TO BE STAKED AND VERIFIED IN THE FIELD WITH OWNER PRIOR TO CONSTRUCTION.

2 / C503 — REPRESENTATIVE CANAL CROSS SECTION BETWEEN BOARDWALKS

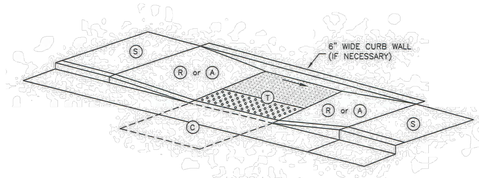
NOT TO SCALE

Mid-block curb cut assembly

1. **GENERAL**
   A. Where existing elements or spaces are altered to receive an assembly; slopes and dimensions shall comply with slopes and dimensions shown on the drawing, or to the maximum extent feasible permitted by the ENGINEER. Final configuration of the assembly may be different than shown.
   B. Installation of a curb wall is ENGINEER's choice.
   C. Definitions and supplemental requirements are specified in APWA Section 32 16 14.
2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73..
   C. Detectable Warning Surface: Paver, ribbed composite panel, or tile. Provide a color that contrasts with adjacent walking surface, either light-on-dark or dark-on-light. ENGINEER to select type and color unless indicated elsewhere.
   D. Concrete: Class 4000, APWA Section 03 30 04.
   E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. **EXECUTION**
   A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Curb Modifications:
      1) The sloped surface created to accommodate the ramp or approach areas shall be perpendicular to the back of curb.
      2) No grade break shall exist between the flow-line and the turning space. Length of the curb modification abutting the turning space is 4 feet minimum.
   C. Curb Ramp: Length not required to exceed 15 feet. Grade breaks are perpendicular to the direction of ramp run and are not permitted on the ramp or turning space surface. Sides are parallel to each other and perpendicular to the ends.
   D. Curb Wall: Set top of curb wall equal to elevation of extended lateral lines of sidewalk.
   E. Concrete Placement: APWA Section 03 30 10.
      1) Maximum length to width ratio for rectangular panel joints is 1.5 to 1. Joint spacing measured in feet not to exceed twice slab thickness measured in inches or a maximum of 15 feet.
      2) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install contraction joints vertical, 1/8-inch wide, and 1/4 of the depth of the concrete flatwork.
      3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   F. Clear Space: No trip hazards in the clear space.

236.3

TURNING SPACE AT STREET LEVEL



EXAMPLE 5

ELEMENT		DIMENSION
R	A	4 FEET WIDE MINIMUM
C	T	4 FEET SQUARE MINIMUM

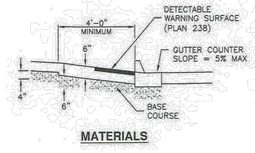
WHERE TURNING SPACE IS CONSTRAINED ON 2 SIDES, PROVIDE 5 FEET IN THE DIRECTION OF THE CROSSWALK

TABLE OF DIMENSIONS

		RUNNING SLOPE (%) MAXIMUM	CROSS SLOPE (%) MAXIMUM
TURNING SPACE	T	STREET GRADE	2
CURB RAMP	R	8.33	2
CLEAR SPACE	C	5	STREET GRADE
SIDEWALK	S	STREET GRADE	2
APPROACHE	A	8.33	2

(a) RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. RUNNING SLOPE OF FLARE IS PARALLEL TO BACK OF CURB
(b) CROSS SLOPE IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL

SLOPE TABLE



MATERIALS

4 / C503 — ADA RAMP

NOT TO SCALE

4" ULTRASONIC METER WITH 4" BYPASS

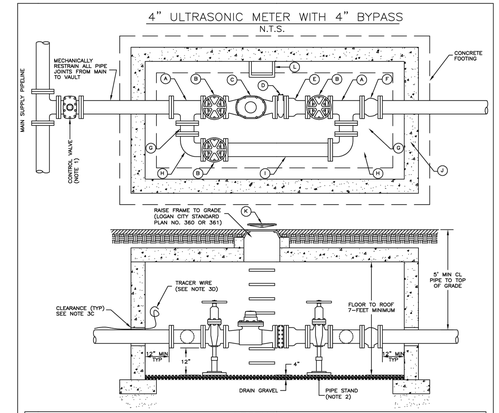
1. GENERAL
   A. Configuration may be changed at ENGINEER's discretion.
   B. Additional requirements are specified in APWA Section 33 12 16.
2. PRODUCTS
   A. Pipe Stand: Use adjustable pipe stand. Place stand on 12 inch x 12 inch by 2 inch concrete paver.
   B. Drain Gravel: Sewer rock, ASTM size no. 3 (2" to 1") or equal, APWA Section 31 05 13.
3. EXECUTION
   A. Control Valve: Install valve with valve box adjacent to main.
   B. Center frame and cover over water meter.
   C. Allow 1-inch clearance around water line where water line passes through concrete box wall. Seal opening with compressible seal.
   D. Tracer Wire: Leave sufficient spool of wire to be pulled through vault and out lid to 3' above finished grade.

Nibley City Amendments:
1. Install tracer wire from the main to the meter with exposed wire inside the meter can and connected to the tracer wire running along the main.
2. Union connections are not allowed.
3. See the Nibley City Approved Materials List (APL) for information on specific product types and manufactures.

NIBLEY CITY WATER DIVISION	4" ULTRASONIC METER AND BYPASS	DESIGNED DMH 02/10/2022	DRAFTED DMH	CHECKED TDICKINSON	REVISION BLOCK	SCALE N.T.S.	SHEET NO. 523S.2

4" ULTRASONIC METER WITH 4" BYPASS

N.T.S.



No.	ITEM	DESCRIPTION
A	4" FLANGE TEE FLG X FLG X FLG	
B	4" GATE VALVE W/ HAND WHEEL FLG X FLG	AWWA STANDARD C509
C	4" ULTRASONIC METER (14" LAY LENGTH)	NEPTUNE MACH 10 OR MASTER METER OCTAV
D	4" STRAINER	INSTALL ACCESS PLATE ON SIDE
E	4" FLG X MJ ADAPTER W/ 4" FLG X PE SPOOL	
F	4" GLOBE STYLE CHECK VALVE	
G	4" FLG X FLG D.I. PIPE SPOOL (12" LENGTH)	
H	4" X 4" FLG X FLG ELBOW	
I	4" FLG X FLG D.I. PIPE SPOOL	
J	CONCRETE BOX	NIBLEY CITY STANDARD PLAN No. 505.S.2
K	38" FRAME & COVER	NIBLEY CITY STANDARD PLAN No. 503
L	STEPS AT 12" C.C.	

NIBLEY CITY WATER DIVISION	4" ULTRASONIC METER AND BYPASS	DESIGNED DMH 02/10/2022	DRAFTED DMH	CHECKED TDICKINSON	REVISION BLOCK	SCALE N.T.S.	SHEET NO. 523S.1

CONCRETE METER BOXES

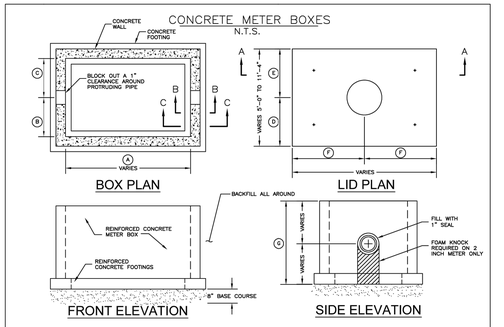
N.T.S.

1. GENERAL
   A. Before backfilling secure inspection of installation by ENGINEER.
2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Backfill: Common fill, APWA Section 31 05 13. BORROW Maximum particle size 3 -inches.
   C. Traffic Rated: H-20 load rated unless more stringent requirement is deemed necessary due to site conditions by Professional Engineer Licensed in the State of Utah.
3. EXECUTION
   A. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   C. Fill annular space around pipe wall penetrations with waterproof sealer.
   D. Place frame and cover directly over valve or meter location.
   E. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

NIBLEY CITY WATER DIVISION	CONCRETE METER BOXES	DESIGNED DMH 02/10/2022	DRAFTED DMH	CHECKED TDICKINSON	REVISION BLOCK	SCALE N.T.S.	SHEET NO. 505S.2

CONCRETE METER BOXES

N.T.S.



No.	METER SIZE 10"	8"	6"	4"
A	BY CUSTOM DESIGN APPROVED BY ENGINEER AND OWNER			9'-6"
B				3'-0"
C				2'-0"
D				3'-8"
E				2'-8"
F				4'-8"
G				9'-0"

NIBLEY CITY WATER DIVISION	CONCRETE METER BOXES	DESIGNED DMH 02/10/2023	DRAFTED DMH	CHECKED TDICKINSON	REVISION BLOCK	SCALE N.T.S.	SHEET NO. 505S.1

3 / C503 — 4" WATER METER & VAULT

NOT TO SCALE

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S
NIBLEY, UT, 84321

CONTACT:
TOM DICKENSON
PH: 435.757.9848

RIDGELINE PARK PHASE 1

401 W ROPELATO DRIVE
NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

NO.	symmetry	DESCRIPTION

Stamp

PROFESSIONAL ENGINEER — No. 8241188-2202 — MICHAEL E. TAYLOR — STATE OF UTAH

Drawn By: L. MUMFORD
Date: 12/6/2023
Checked By: M. TAYLOR
Project No: 22-270

Drawing Title

DETAILS

Drawing number

C503

DEFERRED SUBMITTALS

Delegated Deferred Design Submittals to be provided by Contractor

OVERCURRENT PROTECTIVE DEVICE STUDY AND ARC-FLASH STUDY REPORT & LABELING.

Provide the following items listed below and comply with additional requirements as provided. See specifications.

1. Coordination-study input data, including completed computer program input data sheets.
2. Study and equipment evaluation reports.
3. Overcurrent protective device coordination study report; signed, dated, and sealed by a qualified professional engineer. Overcurrent protection shall coordinate to 0.3 seconds on normal power and to 0.1 seconds on emergency power.
4. Arc-flash study input data, including completed computer program input data sheets.
5. Arc-flash study report; signed, dated, and sealed by a qualified professional engineer.
   a. Submit study report for action prior to receiving final approval of the distribution equipment submittals. If formal completion of studies will cause delay in equipment manufacturing, obtain approval from Architect for preliminary submittal of sufficient study data to ensure that the selection of devices and associated characteristics is satisfactory.

SEISMIC CONTROL FOR ELECTRICAL SYSTEMS

Provide the following items listed below and comply with additional requirements as provided. See specifications.

A. Product Data: For each type of product.
1. Illustrate and indicate style, material, strength, fastening provision, and finish for each type and size of seismic-restraint component used.
   a. Tabulate types and sizes of seismic restraints, complete with report numbers and rated strength in tension and shear as evaluated by an agency acceptable to authorities having jurisdiction.
   b. Annotate to indicate application of each product submitted and compliance with requirements.

B. Delegated-Design Submittal: For each seismic-restraint device.
1. Include design calculations and details for selecting seismic restraints complying with performance requirements, design criteria, and analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
2. Design Calculations: Calculate static and dynamic loading caused by equipment weight, operation, and seismic and wind forces required to select seismic and wind restraints and for designing vibration isolation bases.
   a. Coordinate design calculations with wind load calculations required for equipment mounted outdoors. Comply with requirements in other Sections for equipment mounted outdoors.
3. Seismic-Restraint Details:
   a. Design Analysis: To support selection and arrangement of seismic restraints. Include calculations of combined tensile and shear loads.
   b. Details: Indicate fabrication and arrangement. Detail attachments of restraints to the restrained items and to the structure. Show attachment locations, methods, and spacings. Identify components, list their strengths, and indicate directions and values of forces transmitted to the structure during seismic events. Indicate association with vibration isolation devices.
   c. Coordinate seismic-restraint and vibration isolation details with wind-restraint details required for equipment mounted outdoors. Comply with requirements in other Sections for equipment mounted outdoors.
   d. Preapproval and Evaluation Documentation: By an agency acceptable to authorities having jurisdiction, showing maximum ratings of restraint items and the basis for approval (tests or calculations).

C. Deferred Submittals for the Authority Having Jurisdiction (AHJ) shall be as required by IBC 106.3.4.2.

1. Deferred submittals of seismic restraint of nonstructural components must be submitted to the AHJ a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient additional time may become necessary.

2. No deferred submittal element shall be installed until AHJ approval has been received.

3. If seismic restraints of nonstructural components are installed prior to receiving AHJ approval they shall not be covered or concealed until plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.

4. Deferred Submittals are required for:
   a. Electrical distribution equipment (switchboards, panelboards, transformers, ATS, MCC's etc.).
   b. Generators, batteries, UPS.
   c. Conduit racks.
   d. Cable trays.
   e. Lighting fixtures.
   f. Control Panels

GENERAL LABELING SCHEME

FIRST DIGIT - BUILDING LEVEL (1 OR 2)

SECOND DIGIT - PANEL TYPE

- M - MECHANICAL (120/208/277/380/480V)
- L or LCP - LIGHTING (120/208/277/480V)
- P - PLUG LOADS (120/208V)
- G - GENERAL LOADS (120/280V)
- E - EMERGENCY (277/480V)
- S - STANDBY (SPECIFIED ON PANEL)
- U - UPS (SPECIFIED ON PANEL)

THIRD DIGIT - BUILDING AREA (A, B, C, D, ECT.)

FOURTH DIGIT - SEQUENCE # (1,2,3...)

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE
1PH	SINGLE-PHASE
1WAY	ONE-WAY
2/C	TWO-CONDUCTOR
2WAY	TWO-WAY
3/C	THREE-CONDUCTOR
3WAY	THREE-WAY
4OUT	QUADRUPLE RECEPTACLE OUTLET
4PDT	FOUR-POLE DOUBLE THROW
4PST	FOUR-POLE SINGLE THROW
4W	FOUR-WIRE
4WAY	FOUR-WAY
A	ABOVE COUNTER
AC	ARMORED CABLE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AMP	AMPERE
ANN	ANNUNCIATOR
AP	ACCESS POINT (WIRELESS DATA)
AR	AS REQUIRED
ASC	AMPS SHORT CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BB XFMR	BUCK-BOOST TRANSFORMER
C	CEILING MOUNTED
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT
CCTV	CLOSED CIRCUIT TELEVISION
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CND	CONDUIT
CO	CONVENIENCE OUTLET
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
dBA	UNIT OF SOUND LEVEL
DPDT	DOUBLE POLE, DOUBLE THROW
DS	DISCONNECT SWITCH
EA	EACH
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRIC NONMETALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EX	EXISTING
F	FURNITURE MOUNTED
FA	FIRE ALARM
FCP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT
FOB	FREIGHT ON BOARD
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
I/O	INPUT/ OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN/IS	INSULATED/ ISOLATED
IR	INFRARED
J-BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWh	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MDP	MAIN DISTRIBUTION PANEL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIOANL ELECTRICAL MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVER CURRENT PROTECTION
OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/ OWNER INSTALLED
OFP	OBTAIN FROM PLANS
OH DR	OVERHEAD (COILING) DOOR
OL	OVERLOAD
PB	PUSHBUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PTZ	PAN/TILT/ZOOM
QTY	QUANTITY
R	REMOVE
RCP	REFLECTED CEILING PLAN
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND RELOCATE
S/S	START/STOP
SCA	SHORT CIRCUIT AMPS
SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
SF	SQUARE FOOT (FEET)
SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
SPDT	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
ST	SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TL	TWIST LOCK
TP	TELEPHONE POLE
TP	TWISTED PAIR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UF	UNDERFLOOR
UGND	UNDERGROUND
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERE
VFC/VFD	VARIABLE FREQUENCY MOTOR CONTROLLER
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

2. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
   A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
   B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
   C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE.THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

4. SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

6. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

7 TAKE OFF QUANTITIES SHOWN IN SCHEDULE(S) ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OF THE DEVICES, FIXTURES, EQUIPMENT, RACEWAYS, CONDUCTORS, CABLING, ETC. SHOWN AND SPECIFIED IN THE CONTRACT DOCUMENTS INCLUDING THE EXTRA MATERIAL SPECIFIED.

ELECTRICAL SHEET INDEX

NOTE TO CONTRACTORS:
THIS SHEET SET IS CONTRACTUALLY REQUIRED TO BE PRINTED IN COLOR. THERE ARE DIFFERENTIATING FEATURES THAT ARE DESIGNATED THROUGHOUT BY THEIR COLOR. FAILURE TO PRINT THIS SHEET SET IN COLOR MAY RESULT IN A MISINTERPRETATION OF THE DRAWINGS.

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CONSTRUCTION DOCUMENTS

REVISIONS

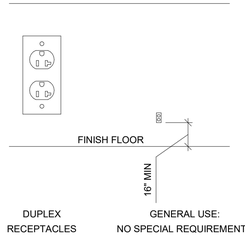
NO.	APPROVAL	DESCRIPTION

Stamp

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title
ELEC COVER SHEET

Drawing number
EE001

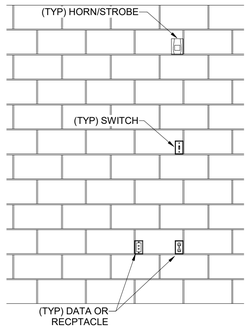


DUPLEX RECEPTACLES

GENERAL USE: NO SPECIAL REQUIREMENTS

1 RECEPTACLE MOUNTING DETAILS

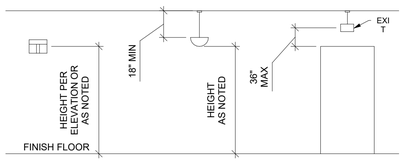
SCALE: NTS



NOTE: ALL DEVICES SHALL BE INSTALLED AND LOCATED IN THE BLOCK CONSISENTLY THROUGH OUT THE BUILDING.

2 TYPICAL CMU DEVICE MOUNTING DETAIL

SCALE: NTS



WALL MOUNTED LIGHT FIXTURE

PENDANT LIGHT FIXTURE

PENDANT EXIT SIGNS

3 LIGHTING MOUNTING DETAILS

SCALE: NTS

WIRING LEGEND

	12AWG WIRE SIZE TYPICAL
	14AWG WIRE SIZE TYPICAL
	SWITCHED LEG FOR LTG CKT WIRE SIZE BY BRANCH CIRCUIT
	VOICE/DATA CABLE CAT6 TYPICAL
	WIRE SIZE SPECIFIED BY CALLOUT TAG
EQ	CONDUCTOR & CONDUIT INDICATOR REFER TO EQUIPMENT SCHEUDLE OF ASSOCIATED EQUIPMENT/DEVICE

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
DMM	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
G	GENERATOR, POWER (ONE-LINE DIAGRAM).
M	METER.
	DISCONNECT SWITCH, FUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	PUSHBUTTON.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
DP#__	DISTRIBUTION PANEL OR SWITCHBOARD.
$ST	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
75	TRANSFORMER: NUMBER INDICATES kVA.
LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)	
(D420) 1C1 z1	FIXTURE ID:(D420) INDICATES FIXTURE TYPE AS SCHEDULED "1C1" INDICATES ROOM/DIMMING CONTROLLER CIRCUITING "z1" INDICATES ZONE CIRCUITING.
(D420) 1C1e z1	FIXTURE ID:(D420) INDICATES FIXTURE TYPE AS SCHEDULED "1C1e" INDICATES ROOM/DIMMING CONTROLLER CIRCUITING "z1" INDICATES ZONE CIRCUITING. EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED
SITE ELECTRICAL AND COMMUNICATIONS UTILITIES	
—3ØUP—	ELECTRIC LINE: THIN LINE. 1Ø = SINGLE PHASE, 2Ø = 2-PHASE, 3Ø = 3-PHASE, O = OVERHEAD, U = UNDERGROUND, P = PRIMARY, S = SECONDARY
	LIGHTNING ARRESTOR.
	UTILITY POLE.
	UTILITY, DISTRIBUTION SWITCH OR SWITCHING STATION.
E	UTILITY, PRIMARY ELECTRICAL GROUND SLEEVE.
M	UTILITY SERVICES, MANHOLE.
C	UTILITY, COMMUNICATIONS MANHOLE.
E	UTILITY, ELECTRICAL MANHOLE.
T	UTILITY, TELEPHONE MANHOLE.
TM	PRECAST CONCRETE, MANHOLE, TRANSFORMER VAULT.
TP	PRECAST CONCRETE, TRANSFORMER PAD.
S	SUBSTATION.
T	TRANSFORMER.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
ROOM NAME 100	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
X-X XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
	BREAK, ROUND
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
X-X XKP	KITCHEN EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XKP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING METHODS	
	WIRING.
	WIRING TURNED UP OR TOWARDS OBSERVER.
	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
1 A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
1	CONDUCTOR RUN IDENTIFICATION.
	JUNCTION BOX.
PB	PULL BOX.
	EARTH GROUND (ONE-LINE DIAGRAM).
C	JUNCTION BOX, CEILING.
EQ	CONDUCTOR & CONDUIT INDICATOR. REFER TO EQUIPMENT SCHEDULE OF ASSOCIATED EQUIPMENT/DEVICE.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
W	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE"; NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
WP	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
ELECTRICAL POWER AND DISTRIBUTION	
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
	OVERLOAD RELAY (ONE-LINE DIAGRAM).
	STARTER (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
MCP	CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTION (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
GFP	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
	TRANSFORMER (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
225/3 "1H" 60/3	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
225/3 "1H" 25/3	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).

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CONSTRUCTION DOCUMENTS

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title

MOUNTING DETAILS & SYMBOLS LEGEND

Drawing number

EE002

GENERAL REQUIREMENTS:

COMPLY WITH THE REQUIREMENTS OF ALL REQUIRED BUILDING CODES, INCLUDING, BUT NOT LIMITED TO THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL ENERGY CONSERVATION CODE, LOCAL CODES, AND INTERNATIONAL BUILDING CODES.
PROVIDE AND PAY FOR ALL REQUIRED PERMITS. BIDDERS SHALL VIEW THE SITE AND SHALL INCLUDE ALL COSTS INCURRED BY EXISTING CONDITIONS IN THE BID PROPOSAL.

MATERIALS OTHER THAN THOSE SPECIFIED MAY BE ACCEPTED PROVIDING A WRITTEN REQUEST IS SUBMITTED TO THE ENGINEER AT THIS LEAST 10 WORKING DAYS PRIOR TO BID OPENING. APPROVED PRODUCTS WILL BE LISTED IN THE ADDENDUM.
ALL EQUIPMENT SHALL BE NEW AND CONTAIN THE MANUFACTURER'S NAME, MODEL NUMBER AND ELECTRICAL CHARACTERISTICS.
ALL EQUIPMENT SHALL BE UL LISTED FOR IT'S INTENDED USE AND/OR APPROVED BY THE AUTHORITY HAVING JURISDICTION.
PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED.
JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE AN INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
ELECTRONIC SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER WITHIN 21 DAYS OF AWARD ON THE CONTRACT, UNLESS OTHERWISE DIRECTED BY ARCHITECT.

SUBMITTALS:

SUBMITTALS SHALL INCLUDE ALL ELECTRICAL MATERIAL PROVIDED AS IT RELATED TO THIS PROJECT AND SHALL SPECIFICALLY INCLUDE BUT IS NOT LIMITED TO: WIRING DEVICES, RACEWAYS, SURFACE RACEWAYS, FLOORBOXES, LIGHTING FIXTURES, LIGHTING CONTROLS, PANELS AND BREAKERS, DISCONNECTS, TELEPHONE/DATA STRUCTURED CABLING SYSTEMS, FIRE ALARM SYSTEMS, ACCESS CONTROLS SYSTEM, INTRUSION DETECTION SYSTEM, AND LIGHTNING PROTECTION SYSTEMS.

PRODUCT DATA: FOR EACH TYPE OF PRODUCT.
1. PROVIDE A PRODUCT SUMMARY PAGE OF ALL SPECIFIC PRODUCTS TO BE USED ON THE PROJECT.
2. HIGHLIGHT ALL PRODUCTS INTENDED TO BE USED.
3. SPECIFICALLY CROSS OUT PRODUCTS THAT ARE NOT INTENDED TO BE USED.
4. PDF SUBMITTAL SHALL BE BOOKED MARKED WITH CORRECT LABELING TO QUICKLY GO TO THE PAGE IN THE SUBMITTAL WITH THE INFORMATION ON THE PRODUCT.
5. SUBMITTALS THAT DO NOT MEET THESE REQUIREMENTS WILL BE REJECTED.

PROVIDE AS-BUILT DRAWINGS TO ARCHITECT BEFORE APPLICATION FOR FINAL PAYMENT. REQUEST A CLEAN SET OF DRAWINGS FROM ARCHITECT AND PREPARE THESE DRAWINGS IN A QUALITY EQUAL TO THAT OF THE ORIGINAL DRAWINGS.

INSTALLATION REQUIREMENTS:

ELECTRICAL PLANS ARE DIAGRAMMATIC. VERIFY EXACT EQUIPMENT LOCATIONS FOR ALL EQUIPMENT. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND EXISTING CONDITIONS TO AVOID CONFLICTS. ALL WORK SHALL BE INSTALLED IN A NEAT, INCONSPICUOUS, WORKMANLIKE MANNER. CONDUIT RUNS SHALL BE PARALLEL AND PERPENDICULAR TO STRUCTURAL LINES WHERE EXPOSED.
OUTLET BOXES, FIXTURES AND EQUIPMENT SHALL BE SECURELY MOUNTED AND SUPPORTED.
THE SITE SHALL BE LEFT CLEAN AND FREE OF DIRT AND DEBRIS. PANELS, FIXTURES, OUTLETS AND EQUIPMENT SHALL BE LEFT CLEAN AND FREE OF FOREIGN MATERIALS AND DIRT.
PANELS, SWITCHES, AND ALL CONTROLS SHALL BE CLEARLY AND PERMANENTLY LABELED WITH LAMINATED ENGRAVED LABELS. WHERE CHANGES ARE MADE IN EXISTING PANELS, DISTRIBUTION CENTERS, ETC., THE LABELING AND SCHEDULES SHALL BE ACCURATELY CORRECTED TO REFLECT THE CHANGES. NEW TYPED PANEL SCHEDULES SHALL BE PROVIDED FOR ALL NEW/EXISTING PANELBOARDS THAT HAVE CHANGES.
RECEPTACLES AND LIGHT SWITCH COVER PLATES SHALL BE LABELED WITH A PERMANENT ADHESIVE TYPED LABEL INDICATING THE PANEL AND CIRCUIT NUMBER.
VOICE & DATA OUTLET COVERS SHALL BE LABELED WITH A PERMANENT ADHESIVE TYPED LABEL INDICATING THE UNIQUE TELECOM ID.
THE STRUCTURED CABLING SHALL BE LABELED AT BOTH ENDS WITH THE UNIQUE ID. THE PATCH PANEL SHALL BE LABELED WITH THE UNIQUE ID. A COMPUTER GENERATOR COLOR CODED MAP SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER SHOWING ALL JACK ID'S ALONG WITH THEIR LOCATION ON A BUILDING FLOORPLAN.
ALL WIRING SHALL BE INSTALLED IN RACEWAYS EXCEPT WHERE OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS.
SEE EQUIPMENT NAMEPLATE SCHEDULE FOR NAMING, LABELING, AND COLOR REQUIREMENTS.

SAFETY:

THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE CONSTRUCTION REVIEW RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, SEQUENCES, OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO COMPLETE THE WORK.

SEISMIC BRACING AND SUPPORTS:

CONTRACTOR SHALL BE RESPONSIBLE TO SEISMICALLY BRACE ALL EQUIPMENT, FEEDERS, LIGHTS, CABLETRAY, AND OTHER ELECTRICAL ITEMS IN ACCORDANCE WITH PREVAILING CODES. DEFERRED SUBMITTALS OF SEISMIC BRACING SHALL BE REQUIRED UPON REQUEST AND SHALL COMPLY WITH ASCE 7-02 FOR SUPPORT AND BRACING OF NON-STRUCTURAL SYSTEMS. THIS SHALL INCLUDE SEISMIC DESIGN DEFERRED SUBMITTALS OF THE SITE LIGHTING POLE BASE DETAILS.

GUARANTEE:

GUARANTEE THE ELECTRICAL INSTALLATION AGAINST ALL DEFECTS IN MATERIALS, EQUIPMENT AND WORKMANSHIP, FOR ONE YEAR AFTER THE DATE OF ACCEPTANCE OF THE WORK. DEFECTS SHALL BE PROMPTLY REMEDIED TO THE SATISFACTION OF THE ARCHITECT AT NO COST TO THE OWNER. ALL EQUIPMENT AND PRODUCTS SHALL CARRY A MINIMUM 1 YEAR WARRANTY FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

MATERIALS AND METHODS:

ARMORED CABLE (AC) NOT PERMITTED ON THIS PROJECT.
METAL-CLAD CABLE (MC) MAY BE USE WHEN CONCEALED IN WALLS OR ABOVE DROPPED CEILINGS (SUCH AS ACOUSTICAL LAY-IN TILE CEILING) AND FOR LENGTHS NO LONGER THAN 6 FEET FOR EXPOSED CONDITIONS. SEE CIRCUITING WIRING METHOD BELOW.
NONMETALLIC-SHEATHED CALBE (NM, NMC, NMS, ROMEX) NOT PERMITTED ON THIS PROJECT.
SERVICE-ENTRANCE CABLE (SE, USE, SER) NOT PERMITTED ON THIS PROJECT.
RIGID METAL CONDUIT (RMC) ALLOWED.
INTERMEDIATE METAL CONDUIT (IMC) SHALL BE USED IN WET LOCATIONS OR IN AREAS SUBJECT TO DAMAGE.
FLEXIBLE METAL CONDUIT (FMC) MAY BE USED WHEN INSTALLED PER CODE AND IN LENGTHS NO LONGER THAN 6 FEET WHERE FLEXIBILITY IS NECESSARY AND WHEN CONNECTING TO EQUIPMENT SUBJECT TO VIBRATION SUCH AS MOTORS OR TRANSFORMERS.
RIGID POLYVINYL CHLORIDE CONDUIT (PVC) SHALL BE USED FOR UNDERGROUND. SHALL BE SCHEDULE 40.
ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN DRY LOCATIONS NOT SUBJECT TO DAMAGE AND WHERE ALLOWED BY CODE.
ELECTRICAL NONMETALLIC TUBING (ENT) MAY BE USED WHEN CONCEALED AND FOR LOW VOLTAGE CABLING (VOICE, DATA, TV, AUDIO, VISUAL, ETC.).
PROVIDE RACEWAY IN 3/4" MINIMUM SIZE. ALL CONDUIT EXPOSED IN OCCUPIED SPACES SHALL BE EMT, UNLESS SPECIFICALLY NOTED OTHERWISE.
SURFACE METAL RACEWAY IS NOT PERMITTED UNLESS APPROVED IN WRITING BY ARCHITECT OR SPECIFICALLY CALLED OUT IN THE DRAWINGS TO BE PROVIDED.
EMT CONNECTORS TO BE STEEL, ZINC, OR CADMIUM COATED, FACTORY PRE-INSULATED.
CONDUIT BUSHINGS TO BE HEAVY DUTY, INSULATED.

WIRE SHALL BE COPPER THHN/THWN-2 FOR COPPER SIZES #2 AND SMALLER. ALUMINUM XHHW-2 WIRE MAY BE USED FOR ALUMINUM SIZES 1/0 AND LARGER. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, COPPER #12 IS THE MINIMUM SIZE FOR LIGHTING AND POWER USE. SIZE WIRE AS INDICATED ON THE DRAWINGS, OR APPROPRIATE TO CARRY THE ENTIRE LOAD PER THE CURRENT VERSION OF NEC.
PROVIDED DEDICATED NEUTRAL WIRING FOR ALL BRANCH CIRCUITS, COMMON (SHARED) NEUTRAL WIRING IS NOT PERMITTED.
SEE BRANCH CIRCUIT CONDUCTOR AND CONDUIT SIZING TABLE FOR CONDUCTOR SIZING FOR VOLTAGE DROP.
ALL WIRING SHALL BE COLOR CODED WITH SOLID COLORING OR FOR SIZES ABOVE #6 MAY HAVE COLORED TAPE BANDS AT ALL ACCESSIBLE LOCATIONS AND ENDS, COLOR CODING SHALL BE AS FOLLOWS:
PHASE A - BLACK; NEUTRAL A - WHITE WITH/BLACK STRIPE
PHASE B - RED; NEUTRAL B - WHITE WITH/RED STRIPE
PHASE C - BLUE; NEUTRAL C - WHITE WITH/BLUE STRIPE
GROUND - GREEN

BOXES TO BE 4 INCH OCTAGONAL FOR LIGHTING OUTLETS AND 4 INCH SQUARE BACKBOXES (MINIMUM 1-1/2 INCHES DEPTH) WITH APPROPRIATE DEVICE COVERS FOR DEVICE OUTLETS IN CONCEALED WORK. PROVIDE 4-11/16" SQUARE DEEP J-BOXES FOR ALL LOW-VOLTAGE/DATA DEVICES. PROVIDE SINGLE GANG MUD RINGS FOR SINGLE GANG OUTLETS. DO NOT INSTALL OUTLET BOXES BACK TO BACK IN THE SAME STUD SPACE.
OUTLET BOXES SHALL BE INSTALLED NOT MORE THAN 1/8 INCH BACK IN SHEETROCK AND PLUMB.

CIRCUIT WIRING METHOD:
FEEDERS SHALL BE IN CONDUCTORS IN RACEWAY.
BRANCH CIRCUITS SHALL BE CONDUCTORS IN RACEWAY TO THE FIRST DEVICE OR J-BOX IN ACCESSIBLE LOCATION. MC CABLE MAY BE USED WHEN CONCEALED TO THE OTHER DEVICES AND FIXTURES ON THE CIRCUIT. AREAS WITH OPEN CEILING ARE REQUIRED TO HAVE EMT/IMC CONDUIT ONLY EXCEPT UP TO 6 FEET OF MC CABLE TO FIXTURE OR DEVICES. NO VISIBLE MC CABLE IS PREFERRED.

WIRING DEVICES:

INSTALL WIRING DEVICES TO THE FOLLOWING HEIGHTS (HEIGHTS TO CENTER OF DEVICE UNLESS NOTED OTHERWISE) UNLESS NOTED OTHERWISE ON THE DRAWINGS, SEE TYPICAL MOUNTING HEIGHT DETAILS:
SWITCH - 45"
STANDARD RECEPTACLE OR VOICE/DATA OUTLET - 18"
RECEPTACLE OR VOICE/DATA OUTLET (ABOVE COUNTER) - 3" ABOVE BACKSPLASH
PANELBOARD, FACP - 72" TO TOP
FIRE ALARM NOTIFICATION DEVICE - 96"
VOICE/DATA - 18"
CONSULT ARCHITECTURAL ELEVATIONS AND MILLWORK SHOP DRAWINGS TO DETERMINE EXACT MOUNTING HEIGHT OF ALL OUTLETS ABOVE COUNTER. COORDINATE WITH MILLWORK INSTALLER TO PROVIDE GROMMETS WHERE OUTLETS ARE LOCATED BELOW COUNTER.
ALL DEVICES ARE BASED ON LUTRON'S WIRELESS LIGHTING CONTROL SYSTEM. ALL DEVICES SHALL WORK WITH AND BE COMPATIBLE WITH SAID SYSTEM.
WALL SWITCHES FOR GENERAL USE TO BE 20 AMPERE, 120/277 VOLT AC RATED, QUIET ACTING.
DUPLEX RECEPTACLES TO BE 20 AMPERE SPECIFICATION GRADE.
WALL SWITCH SENSOR SWITCHES SHALL BE LUTRON.
DIMMER SWITCHES SHALL BE 0-10 VOLT LUTRON.
MULTI-BUTTON DIMMER SWITCHES SHALL BE 0-10 VOLT LUTRON.
SELECTION OF COLOR AND PLATE MATERIAL SHALL BE BY ARCHITECT. PLATE MATERIAL MAY BE EITHER STAINLESS STEEL, OR NYLON, INCLUDE WORST CASE (MOST EXPENSIVE) IN BID. STAINLESS STEEL PLATES SHALL BE REQUIRED IN KITCHEN AND RESTROOM AREAS.
ALL DEVICES SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. HORIZONTALLY MOUNTED RECEPTACLES SHALL HAVE THE NEUTRAL UP WITH THE GROUND TO THE LEFT.

FLOOR BOXES:

PROVIDE FLUSH FLOOR BOX, CONCRETE TIGHT, OF CAST METAL OR STEEL CONSTRUCTION, WITH CARPET RINGS AND PLATES, AS PROVIDED BY HUBBELL OR WIREMOLD. EQUIP WITH MINIMUM TWO SIMPLEX POWER RECEPTACLES RATED AT 20 AMPS. EQUIP WITH TWO CATEGORY 6 VOICE/DATA MODULAR OUTLETS WHERE SHOWN (TO BE WIRED BY SEPARATE CONTRACT).

OCCUPANCY SENSORS:

PROVIDE A WIRELESS LIGHTING CONTROL SOLUTION FOR THE BUILDING THAT MEETS CURRENT ENERGY REQUIREMENT FOR CONTROL, DAYLIGHT, PROGRAMING, DIMMING, ETC. SYSTEM SHALL BE LUTRON. THE SYSTEM SHALL AUTOMATICALLY CONTROL RECEPTACLES IN SPACE DEFINED IN THE ENERGY CODE.
PROVIDE CEILING OCCUPANCY SENSORS. SENSORS SHALL BE DUAL TECHNOLOGY PART OF THE WIRELESS LIGHTING CONTROL PACKAGE.
INFRARED/ULTRASONIC IN ALL AREAS, BUT ULTRASONIC ONLY IN RESTROOMS. PROVIDE CEILING SENSORS OF LOW PROFILE, NON-ADJUSTABLE STYLE, ORIENTED TO COVER THE ROOM. MOUNT SENSORS A MINIMUM OF 3 FEET AWAY FROM AIR DIFFUSERS. PROVIDE ALL POWER PACKS REQUIRED. PROVIDE DUAL TECHNOLOGY WALL MOUNT/SWITCH SENSORS WITH MANUAL OVERRIDE IN SMALL AREAS ORIENTED TOWARDS THE CENTER OF THE ROOM, WHERE WALL MOUNT OCCUPANCY SENSORS ARE INDICATED. ADJUST SENSORS TO OPERATE EFFECTIVELY WHEN SOMEONE ENTERS THE ROOM, AND REMAIN ON WHILE THEY ARE IN THE ROOM.
TEST EACH ROOM INDEPENDENTLY. VISIT THE SITE 3 MONTHS AFTER OCCUPANCY AND READJUST AS REQUIRED.
LOW VOLTAGE WIRING INSTALLED IN INACCESSIBLE CEILING AREA MUST BE RUN IN EMT CONDUIT. THE CONDUIT MAY STOP SHORT OF THE SENSOR OR POWER PACK (WITHIN 6 INCHES).

ELECTRICAL PANELBOARDS, SWITCHBOARDS & BREAKERS:

PROVIDE SPECIFICATION GRADE, DOOR IN DOOR, PANELBOARDS OF SQUARE D NQOD, CUTLER HAMMER, SIEMENS, OR EATON. PROVIDE BOLT ON BREAKERS. PROVIDE ALUMINUM BUSSING, 100% RATED NEUTRAL BUS, AND BONDED GROUND BUS. PROVIDE ISOLATED GROUND BUS WHERE INDICATED. PROVIDE TYPED PANEL SCHEDULE. PROVIDE PERMANENT ENGRAVED PANEL ID LABEL ON THE OUTSIDE OF EACH PANELBOARD AND SWITCHBOARD. SEE EQUIPMENT NAMEPLATE SCHEDULE FOR NAMING, LABELING, AND COLOR REQUIREMENTS.
PANEL AND BREAKERS SHALL BE FULLY RATED FOR THE FAULT CURRENT VALUES INDICATED IN THE DRAWINGS, SERIES RATING IS NOT PERMITTED. PROVIDE NEMA-3R ENCLOSURES FOR ANY PANELBOARD OR SWITCHBOARD INSTALLED OUTSIDE. PROVIDE NEMA ENCLOSER REQUIRED FOR THE SPACE THE GEAR WILL BE INSTALLED, CONTRACTOR TO CONFIRM CONTRACT DOCUMENTS FOR HAZARDOUS LOCATIONS.

EQUIPMENT CONNECTIONS:

CONNECT EACH ITEM OF MECHANICAL OR OTHER TYPES OF EQUIPMENT SHOWN ON THE DRAWINGS, PROVIDING ALL POWER REQUIREMENTS. VERIFY EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGHING-IN AND ORDERING EQUIPMENT.
FURNISH ALL CODE REQUIRED DISCONNECTS UNDER THIS WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
CONTROL DEVICES AND CONTROL WIRING WILL BE FURNISHED AND INSTALLED UNDER OTHER WORK UNLESS SPECIFICALLY CALLED FOR ON THE ELECTRICAL DRAWINGS.
PROVIDE ALL CONTROL WIRING FOR GENERATOR AND TRANSFER SWITCHES.
PROVIDE ALL ELECTRICAL AS REQUIRED BY THE ELEVATOR MANUFACTURE PER THEIR SUBMITTAL AND SHOP DRAWINGS.
PROVIDE ALL ELECTRICAL TO POOL/SPA EQUIPMENT PER SHOP DRAWINGS AND SUBMITTALS.

LIGHTING FIXTURES:

ALL LIGHTING SHALL BE LED.
FIXTURES SHALL BE ADEQUATELY SUPPORTED WITH A SAFETY FACTOR OF FOUR. FIXTURES SHALL BE STABILIZED OR LOCKED INTO PLACE TO RESIST SEISMIC FORCES. SUPPORT ALL RECESSED FIXTURES INDEPENDENTLY OF THE CEILING SYSTEM, USING WIRE TIED FROM TWO CORNERS OF THE FIXTURE TO THE STRUCTURE ABOVE. FOR SUSPENDED FIXTURES ON DROPPED CEILING, LOCATE BOXES AT THE DROPPED CEILING LEVEL AND SUPPORT INDEPENDENT OF THE CEILING.
FIXTURES SHALL ALL BE CLEAN AND IN PROPER OPERATION AT THE TIME OF ACCEPTANCE OF THE WORK.

PROVIDE EMERGENCY ILLUMINATION OF 1 FOOT CANDLE IN THE PATH OF EGRESS FOR MINIMUM OF 90 MINUTES.
PROVIDE EMERGENCY BATTERY PACKS IN FIXTURES SPECIFIED CAPABLE OF OPERATING LAMPS FOR MINIMUM OF 90 MINUTES OR PROVIDE A LIGHTING INVERTER SIZED TO POWER ALL EMERGENCY FIXTURES FOR 90 MINUTES.
DO NOT INSTALL POWER RACEWAYS OR TELECOMMUNICATIONS RACEWAYS WITHIN 5 INCHES OF ANY FLUORESCENT OR HID FIXTURE.

LIGHTING CONTROL RELAY PANEL:

PROVIDE A WIRELESS LIGHTING CONTROL SOLUTION FOR THE BUILDING THAT MEETS CURRENT ENERGY REQUIREMENT FOR CONTROL, DAYLIGHT, PROGRAMING, DIMMING, ETC. SYSTEM SHALL BE LUTRON.
PROVIDE PROGRAMING TO MEETING THE OWNER REQUIREMENTS. MEET WILL OWNER TO DETERMINE PROGRAMING AND PROVIDE ACCORDINGLY. PROVIDE FINE TUNE ADJUSTMENTS REQUIRED BY OWNER.

LIGHTING COMMISSIONING:

THE CONTRACTOR SHALL PERFORM OR SHALL ENGAGE A PARTY TO PERFORM THE FOLLOWING TESTS AND INSPECTIONS WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE.
ENSURE THAT THE LIGHTING CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS COMPLY WITH 2018 IECC SECTION C408.3.
ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED PARTY INDEPENDENT FORM THE DESIGN OR CONSTRUCTION OF THE PROJECT SHALL BE RESPONSIBLE FOR THE FUNCTIONAL TESTING AND SHALL PROVIDE DOCUMENTATION TO THE CODE OFFICIAL CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE PROVISIONS OF 2018 IECC SECTION C405.
PROVIDE THE FOLLOWING PROCEDURES FOR EACH; OCCUPANT SENSOR, TIME SWITCH, PROGRAMMABLE SCHEDULE CONTROL, PHOTOSENSOR, AND DAYLIGHTING CONTROL.
CONFIRM THAT THE PLACEMENT, SENSITIVITY, AND TIME-OUT ADJUSTMENTS FOR THE OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCES.
CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR THE PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

CONSTRUCTION DOCUMENTS

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REVISIONS

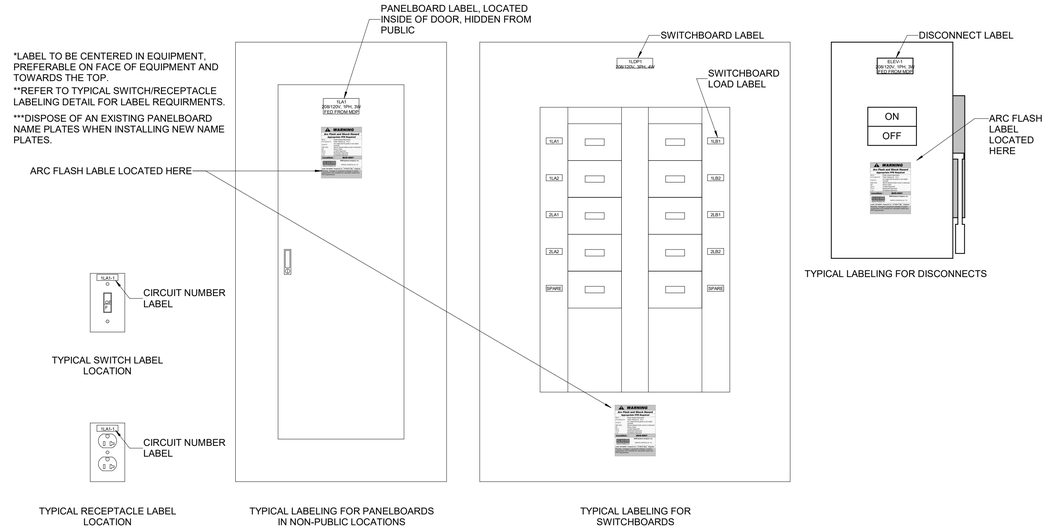
NO.	APPROVAL	DESCRIPTION

Stamp

Designed By: JJN
Drawn By: JJN
Date: 12/06/2023
Checked By: SCL
Project No: 220663

Drawing Title
ELECTRICAL SPECIFICATIONS

Drawing number
EE004



C4 TYPICAL SWITCH, RECEPTACLE AND PANELBOARD LABELING LOCATION DETAIL

SCALE: 3/32" = 1'-0"

1. LABEL TO BE PROVIDED AT EACH SWITCHBOARD, PANELBOARD, DISCONNECT/STARTER. LABEL IS TO BE 3" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.
2. LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
3. FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. REPLACE THE LETTER/NUMBER WITH THOSE FOUND ON THE ONE-LINE DIAGRAM.
4. SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED, VOLTAGE, PHASE, NUMBER OF WIRES, AND AIC RATING OF DEVICE.
5. THIRD LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. PROVIDE "FED FROM-" AND REPLACE MDP1 WITH THE DEVICES NAME THAT FEEDS THE PANELBOARD.

NOTE: EMERGENCY PANELS SHALL USE LAMACOID WITH RED OUTERPLY, EXPOSING WHITE LETTERING BENEATH. CONTRACTOR TO USE SAME LABEL SCHEME EXCEPT FIRST 'X' IS REPLACED WITH 'E' FOR EMERGENCY. SECOND 'X' TO BE 'L' FOR LOW OR 'H' FOR HIGH VOLTAGE (480/277V). LAST '#' TO BE REPLACED WITH LETTER INDICATING LOCATION OF PANEL.

B1 TYPICAL PANELBOARD/SWITCHBOARD LABEL

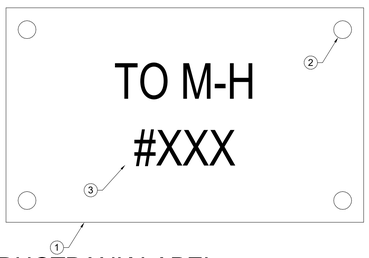
SCALE: 1/8" = 1'-0"

1. LABEL TO BE PROVIDED THAT IS TO BE 4" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.
2. LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
3. FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, WITH THE EQUIPMENT ID MATCHING PLANS.
4. SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED, VOLTAGE, PHASE, NUMBER OF WIRES, AND AIC RATING OF GEAR.

B2 TYPICAL MAIN SERVICE EQUIPMENT/GEAR LABEL

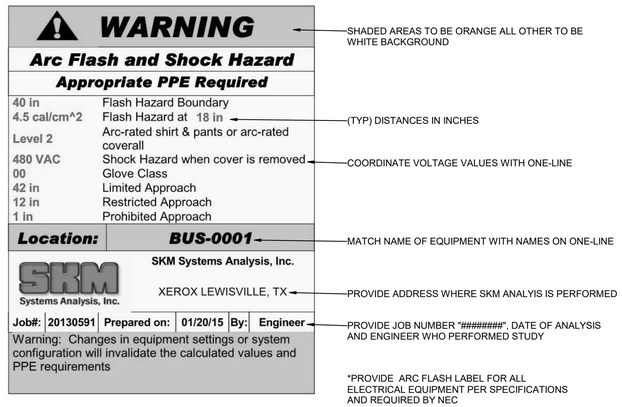
SCALE: 1" = 10'-0"

1. DUCTBANK LABEL TO BE PROVIDED AT EACH DUCTBANK START AND END LOCATIONS AS WELL AS AT EACH MANHOLE ENTRANCE AND EXIT THAT WORK IS HAPPENING AT IN PROJECT. LABEL IS TO BE 3" X 5" X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER YELLOW PLY, EXPOSING BLACK PLY BENEATH.
2. LABEL IS TO BE MOUNTED USING 1/4" PLASTIC ANCHORS. LABEL IS TO BE LOCATED DIRECTLY ADJACENT TO THE DUCTBANK IN A WAY TO CLEARLY INDICTE WHITCH DUCTBANK THE LABLE IS DEFINING.
3. LETTERING IS TO BE 1/2" HIGH, CENTERED, AND FORMATTED AS SHOWN. "TO M-H #XXX" IS TO BE REPLACE WITH THE DESTINATION OF THE DUCTBANK, SUCH AS THE NEXT MANHOLE, A VAULT, OR A PAD. CONFIRM NAME WITH OWNER PRIOR TO ORDERING.



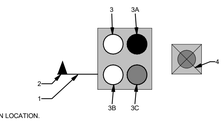
A1 DUCTBANK LABEL

SCALE: NTS



A3 TYPICAL ARC FLASH LABEL

SCALE: 3/32" = 1'-0"



1. INDICATES SECTION LOCATION.
2. ARROW INDICATES THE DIRECTION DETAIL IS LOOKING ALONG DUCTBANK.
3. CIRCLES INDICATE NUMBER OF CONDUITS IN DUCTBANK.
   3A. DARK FILLED CONDUIT INDICATES A CONDUIT WITH NEW CABLING IN CONDUIT.
   3B. CONDUIT WITH NO FILL INDICATES AN EMPTY CONDUIT.
   3C. LIGHT FILLED CONDUIT INDICATES A CONDUIT WITH EXISTING CABLING IN CONDUIT.
4. X IN DUCTBANK INDICATES CABLING TO BE DEMOLISHED

D4 DUCTBANK SECTION LEGEND

SCALE: 1" = 60'-0"

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CONSTRUCTION DOCUMENTS

REVISIONS

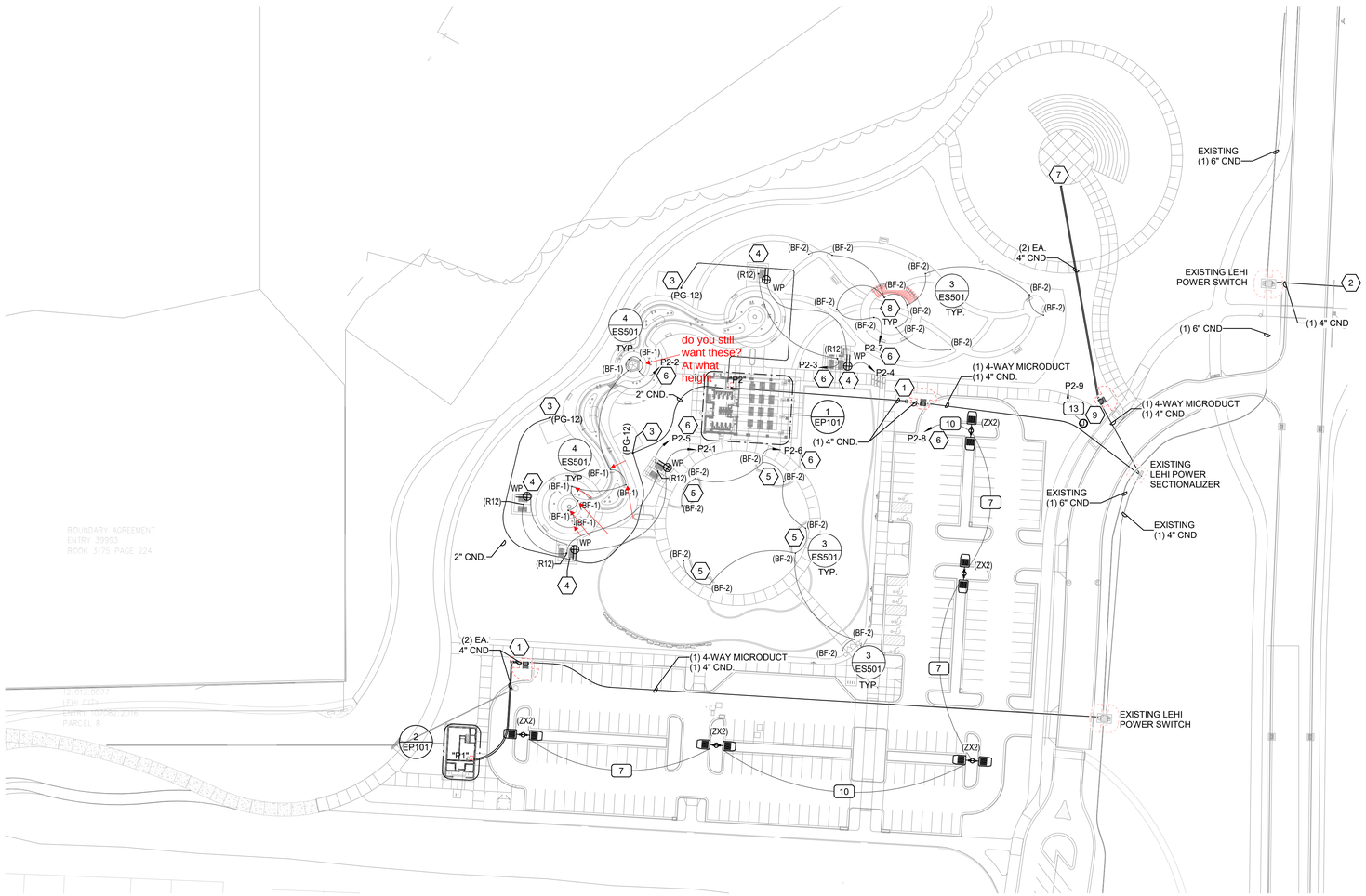
No.	yy/mm/dd	DESCRIPTION

Stamp

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title
TYPICAL LABELING SCHEMES

Drawing number
EE005



1 ELECTRICAL OVERALL SITE PLAN - PACKAGE 2

SCALE: 1" = 60'-0"

GENERAL SHEET NOTES

1 THE ELECTRICAL CONTRACTOR SHALL MEET WITH AND COORDINATE WITH ALL SERVICE PROVIDERS (POWER, COMMUNICATION, CABLE/SATELLITE, ETC.)TO THE FACILITY ON SITE PRIOR TO ANY WORK BEING PREFORMED. CONFIRM WITH EACH SERVICE PROVIDER EXACT LOCATIONS EQUIPMENT AND ROUTING. COMPLY WITH ALL SERVICE PROVIDER'S CURRENT STANDARDS AND REQUIREMENTS. PROVIDE THE REQUIRED EQUIPMENT, RACEWAYS, BOXES, CABLE, ETC. AS REQUIRED BY THE SERVICE PROVIDER WEATHER SHOWN ON THE DRAWINGS OR NOT.

2 FOR ALL LIGHT FIXTURES, POLE LIGHTS, AND ALL OTHER ELECTRICAL DEVICES THE CONTRACTOR SHALL COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS WITH ARCHITECT, OWNER, ENGINEER, AND ALL OF THE CONTRACT DOCUMENTS PRIOR TO ROUGH IN AND TRENCHING.

3 CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BACKFILL, AND COMPACTION ASSOCIATED TO ALL ELECTRICAL UNDERGROUND RACEWAYS AND CABLES. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE UNDERGROUND RACEWAY DETAILS FOR REQUIREMENTS FOR EACH TRENCH.

4 CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS.

5 THE ELECTRICAL CONTRACTOR SHALL HAVE ANY AND ALL CONCRETE POLE BASES AND SLABS REVIEWED BY A STRUCTURAL ENGINEER AND SHALL MODIFY DESIGN PER STRUCTURAL ENGINEER'S AND OR AHJ'S RECOMMENDATIONS.

6 PROVIDE PHOTOCELL ON NORTH SIDE OF FACILITY TO CONTROL EXTERIOR LIGHTS.

7 THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE/ASPHALT CUTTING AND REPLACEMENT OF CONCRETE/ASPHALT TO MATCH EXISTING ASSOCIATED WITH UNDERGROUND RACEWAYS PROVIDED AS PART OF THIS PROJECT.

8 REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.

9 PROVIDE SERVICE RATED EQUIPMENT AT EACH SERVICE ENTRANCE.

10 SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. VERIFY OR RE-CALCULATE THE AVAILABLE FAULT CURRENT AT THE SERVICE WHERE MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR. PLEASE INCLUDE NOTES IN THE ELECTRICAL DRAWINGS OR SUPPLY CALCULATIONS WHERE APPLICABLE. SEE NEC 110.24. (B)

⬡ SHEET KEYNOTES

1 LOCATION OF LEHI POWER DIRECT METER. REFER TO LEHI POWER DETAIL 3.2.3 LOCATED ON PAGE ES502. COORDINATE EXACT LOCATION WITH LEHI POWER PRIOR TO ROUGH-IN.

2 4" CONDUIT TO BE STUBBED AT APPROXIMATE LOCATION FOR FUTURE POWER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH RMP PRIOR TO ROUGH-IN.

3 PROVIDE IN GROUND ELECTRICAL BOX WITH PULL STRING FOR POWER TO BE INSTALLED IN FUTURE GAZEBO. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

4 LIGHT FIXTURE TO BE CENTER MOUNTED IN GAZEBO. CONDUIT FOR BOTH LIGHT FIXTURE AND OUTLET IS TO BE INSTALLED INSIDE METAL GAZEBO STRUCTURE SO THAT IT IS NOT VISIBLE.

5 LIGHT FIXTURES IN GARDEN BEDS MAY BE INSTALLED IN BID ALTERNATE. CONTRACTOR TO PROVIDE CONDUIT AND PULL STRING TO SHOWN LOCATIONS IF FIXTURES ARE NOT TO BE PROVIDED IN THIS PACKAGE.

6 CIRCUIT LIGHTING THROUGH LIGHTING CONTROL PANEL.

7 PROVIDE (2) EACH 4" CONDUITS WITH PULL STRINGS FOR FUTURE POWER TO AUDITORIUM. COORDINATE EXACT STUB-UP LOCATION WITH OWNER PRIOR TO ROUGH-IN.

8 LIGHT FIXTURES IN SENSORY GARDEN MAY BE INSTALLED IN BID ALTERNATE. CONTRACTOR TO PROVIDE CONDUIT AND PULL STRING TO SHOWN LOCATIONS IF FIXTURES ARE NOT TO BE PROVIDED IN THIS PACKAGE.

9 PROVIDE 120V POWER FOR HEATED BACKFLOW DEVICE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CIVIL ENGINEER PRIOR TO ROUGH-IN.

DESIGN SUBMITTAL

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REVISIONS

NO	yy/mm/dd	DESCRIPTION

Stamp

Designed By:	JJN
Drawn By:	JJN
Date:	10.27.2023
Checked By:	SCL
Project No:	22-167

Drawing Title
ELECTRICAL OVERALL SITE PLAN

Drawing number
ES101

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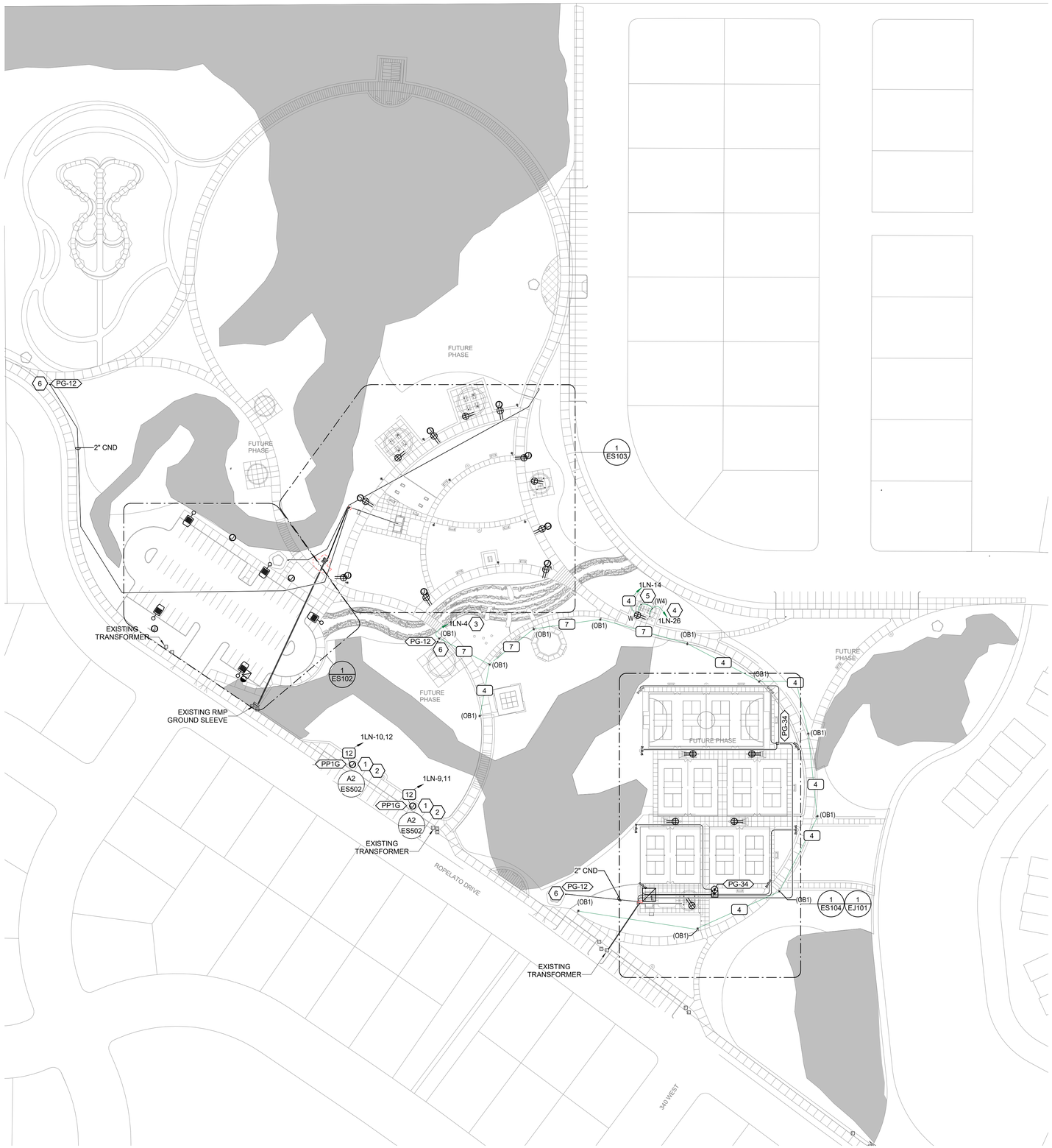

1 ELECTRICAL SITE PLAN
SCALE: 1" = 60'-0"

GENERAL SHEET NOTES

1 THE ELECTRICAL CONTRACTOR SHALL MEET WITH AND COORDINATE WITH ALL SERVICE PROVIDERS (POWER, COMMUNICATION, CABLE/SATELLITE, ETC.)TO THE FACILITY ON SITE PRIOR TO ANY WORK BEING PREFORMED. CONFIRM WITH EACH SERVICE PROVIDER EXACT LOCATIONS EQUIPMENT AND ROUTING. COMPLY WITH ALL SERVICE PROVIDER'S CURRENT STANDARDS AND REQUIREMENTS. PROVIDE THE REQUIRED EQUIPMENT, RACEWAYS, BOXES, CABLE, ETC. AS REQUIRED BY THE SERVICE PROVIDER WEATHER SHOWN ON THE DRAWINGS OR NOT.

2 FOR ALL LIGHT FIXTURES, POLE LIGHTS, AND ALL OTHER ELECTRICAL DEVICES THE CONTRACTOR SHALL COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS WITH ARCHITECT, OWNER, ENGINEER, AND ALL OF THE CONTRACT DOCUMENTS PRIOR TO ROUGH IN AND TRENCHING.

3 CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BACKFILL, AND COMPACTION ASSOCIATED TO ALL ELECTRICAL UNDERGROUND RACEWAYS AND CABLES. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE UNDERGROUND RACEWAY DETAILS FOR REQUIREMENTS FOR EACH TRENCH.

4 CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS. CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS.

5 THE ELECTRICAL CONTRACTOR SHALL HAVE ANY AND ALL CONCRETE POLE BASES AND SLABS REVIEWED BY A STRUCTURAL ENGINEER AND SHALL MODIFY DESIGN PER STRUCTURAL ENGINEER'S AND OR AHJ'S RECOMMENDATIONS.

6 THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE/ASPHALT CUTTING AND REPLACEMENT OF CONCRETE/ASPHALT TO MATCH EXISTING ASSOCIATED WITH UNDERGROUND RACEWAYS PROVIDED AS PART OF THIS PROJECT.

7 REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.

8 PROVIDE SERVICE RATED EQUIPMENT AT EACH SERVICE ENTRANCE.

9 SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. VERIFY OR RE-CALCULATE THE AVAILABLE FAULT CURRENT AT THE SERVICE WHERE MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR. PLEASE INCLUDE NOTES IN THE ELECTRICAL DRAWINGS OR SUPPLY CALCULATIONS WHERE APPLICABLE. SEE NEC 110.24. (B)

10 THIS PROJECT IS DESIGNED WITH BID ALTERNATE PLANS. THE FINAL SCOPE OF CONSTRUCTION OF THESE DOCUMENTS WILL BE DECIDED AT A LATER DATE BY THE OWNER. COORDINATE EXACT SCOPE OF WORK WITHIN EACH ALTERNATE WITH OWNER PRIOR TO BIDDING.

SHEET KEYNOTES

1 APPROXIMATE LOCATION OF EXISTING UTILITY TRANSFORMER. CONDUIT TO STUB UP INTO TRANSFORMER WHERE FEEDER IS TO CONNECT. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, CONNECTION MEANS, AND ALL INSTALLATION REQUIREMENTS OF CONDUIT WITH UTILITY PROVIDER PRIOR TO ROUGH-IN.

2 COORDINATE EXACT LOCATION OF PEDESTAL WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

3 LIGHT FIXTURES TO BE CIRCUITED THROUGH LIGHTING CONTROL PANEL 'LCP'.

4 CIRCUIT THROUGH LIGHTING CONTROL RELAY PANEL. COORDINATE WITH CITY AND ARCHITECT FOR EXACT PROGRAMMING AND CONTROL SETTINGS.

5 ALL ELECTRICAL DEVICES AND CIRCUITING IN PAVILION PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR TO PROVIDE HOME-RUN TO PAVILION. COORDINATE WITH OWNER AND PAVILION PROVIDER.

6 PROVIDE 2" CND WITH PULL STRING TO IN GROUND JUNCTION BOX. JUNCTION BOX INTENDED TO PROVIDE ACCESS FOR FUTURE PHASES TO ELECTRICAL CONNECTION.

CONSTRUCTION DOCUMENTS

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REVISIONS

NO.	MM/DD/YY	DESCRIPTION

Stamp

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title
ELECTRICAL SITE PLAN

Drawing number
ES101

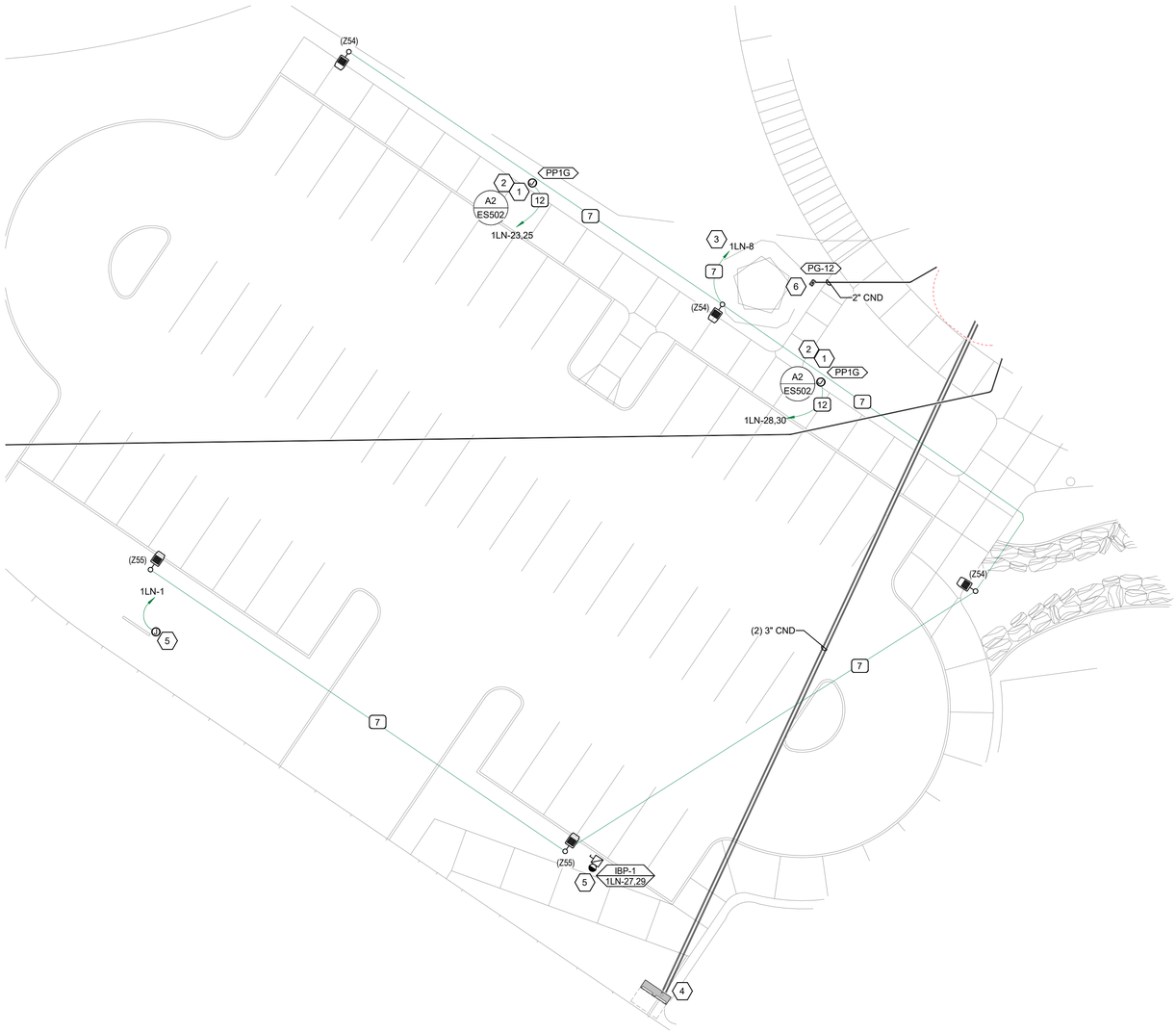
EQUIPMENT SCHEDULE

EQUIPMENT SCHEDULE KEY
E - DIVISION 26
Q - FURNISHED WITH EQUIPMENT
* - COORDINATE WITH THE DIVISION 23 TEMPERATURE CONTROL INSTALLER
** - AUTOMATIC CONTROL WIRING BY DIVISION 23

NOTES:
1. NEMA 3R
2. TOGGLE SWITCH W/ THERMAL OVERLOAD
3. PROVIDE FUSED DISCONNECT ELEVATOR POWER MODULE WITH SHUNT TRIP
4. CONTRACTOR TO PERFOM FINAL CONNECTION TO LINE VOLTAGE THERMOSTATS
5. TOGGLE SWITCH W/BACNET INTERFACE.
6. INDOOR UNITS FED FROM OUTDOOR UNIT. PROVIDE DISCONNECTS FOR BOTH.
7. PROVIDE SWITCH WITH BACNET MS/TP CAPABILITY.
8. PROVIDE LABEL ON DISCONNECT "DISCONNECT OUTDOOR UNIT PRIOR TO INDOOR."
9. LINE VOLTAGE THERMOSTAT ON WALL.
10. PROVIDE EXPLOSION PROOF DEVICES AND WIRING METHODS.
11. PROVIDE DUAL-REDUNDANT 100% RATED VFD'S FOR AIR HANLDER.
12. PROVIDE MANUAL STARTER WITH THERMAL OVERLOAD AND RELAY FOR ATC/BAS CONTROL.
13. PROVIDE NEUTRAL SIZE AT 100% OF CURRENT CARRYING CONDUCTOR.

GENERAL NOTES:
1. WHERE DISCONNECTS, STARTERS, OR VFCs ARE BEING PROVIDED BY ELECTRICAL CONTRACTOR, LOCATE EQUIPMENT IN ACCESSIBLE LOCATION, SUCH THAT IT IS WITHIN SITE OF THE MECHANICAL EQUIPMENT IT IS SERVING, AND COMPLIES WITH N.E.C. REQUIRED CLEARANCES.
2. PROVIDE A NEUTRAL AS REQUIRED BY EQUIPMENT MANUFACTURER AND SUPPLIER. CONTRACTOR SHALL COORDINATE WITH SUBMITTALS AND INSTALLER FOR NUETRAL REQUIREMENTS.

			LOAD DATA								OVERCURRENT PROTECTION			DISCONNECT			STARTER										
MARK	QTY	ITEM DESCRIPTION	HP	kW	MCA	FLA	VOLT	PH	Hz	WIRE AND CONDUIT SIZE	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	SIZES	SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACT	NORMALLY CLOSED CONTACT	PHASE FAILURE RELAY	NOTES	MARK
IBP-1	1	IRRIGATION BOOSTER PUMP	10	-	-	65	240	1	60	2 #3, #8 GR 1.25" CND	E	100/2 CB	1LN	E	100A/2P FRS-80	1LN	Q	-	-	-	-	-	-	-		IBP-1



1 ENLARGED ELECTRICAL SITE PLAN - PARKING LOT
SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

1 THE ELECTRICAL CONTRACTOR SHALL MEET WITH AND COORDINATE WITH ALL SERVICE PROVIDERS (POWER, COMMUNICATION, CABLE/SATELLITE, ETC.)TO THE FACILITY ON SITE PRIOR TO ANY WORK BEING PREFORMED. CONFIRM WITH EACH SERVICE PROVIDER EXACT LOCATIONS EQUIPMENT AND ROUTING. COMPLY WITH ALL SERVICE PROVIDER'S CURRENT STANDARDS AND REQUIREMENTS. PROVIDE THE REQUIRED EQUIPMENT, RACEWAYS, BOXES, CABLE, ETC. AS REQUIRED BY THE SERVICE PROVIDER WEATHER SHOWN ON THE DRAWINGS OR NOT.

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4 CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS. CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS.

5 THE ELECTRICAL CONTRACTOR SHALL HAVE ANY AND ALL CONCRETE POLE BASES AND SLABS REVIEWED BY A STRUCTURAL ENGINEER AND SHALL MODIFY DESIGN PER STRUCTURAL ENGINEER'S AND OR AHJ'S RECOMMENDATIONS.

6 THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE/ASPHALT CUTTING AND REPLACEMENT OF CONCRETE/ASPHALT TO MATCH EXISTING ASSOCIATED WITH UNDERGROUND RACEWAYS PROVIDED AS PART OF THIS PROJECT.

7 REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.

8 PROVIDE SERVICE RATED EQUIPMENT AT EACH SERVICE ENTRANCE.

9 SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. VERIFY OR RE-CALCULATE THE AVAILABLE FAULT CURRENT AT THE SERVICE WHERE MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR. PLEASE INCLUDE NOTES IN THE ELECTRICAL DRAWINGS OR SUPPLY CALCULATIONS WHERE APPLICABLE. SEE NEC 110.24. (B)

10 THIS PROJECT IS DESIGNED WITH BID ALTERNATE PLANS. THE FINAL SCOPE OF CONSTRUCTION OF THESE DOCUMENTS WILL BE DECIDED AT A LATER DATE BY THE OWNER. COORDINATE EXACT SCOPE OF WORK WITHIN EACH ALTERNATE WITH OWNER PRIOR TO BIDDING.

SHEET KEYNOTES

1 COORDINATE EXACT LOCATION OF PEDESTAL WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

2 APPROXIMATE LOCATION OF EXISTING UTILITY TRANSFORMER. CONDUIT TO STUB UP INTO TRANSFORMER WHERE FEEDER IS TO CONNECT. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, CONNECTION MEANS, AND ALL INSTALLATION REQUIREMENTS OF CONDUIT WITH UTILITY PROVIDER PRIOR TO ROUGH-IN.

3 LIGHT FIXTURES TO BE CIRCUITED THROUGH LIGHTING CONTROL PANEL 'LCP'.

4 EXISTING ROCKY MOUNTAIN POWER GROUND SLEEVE. CONTRACTOR TO PROVIDE CONDUIT TO LOCATION. COORDINATE EXACT LOCATION WITH UTILITY COMPANY PRIOR TO ROUGH-IN.

5 PROVIDE POWER FOR THE PARKS ENTRANCE SIGNAGE LIGHTING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

6 PROVIDE 2" CND WITH PULL STRING TO IN GROUND JUNCTION BOX. JUNCTION BOX INTENDED TO PROVIDE ACCESS FOR FUTURE PHASES TO ELECTRICAL CONNECTION.

CONSTRUCTION DOCUMENTS

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35 years
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RIDGELINE PARK | PHASE 1
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REVISIONS

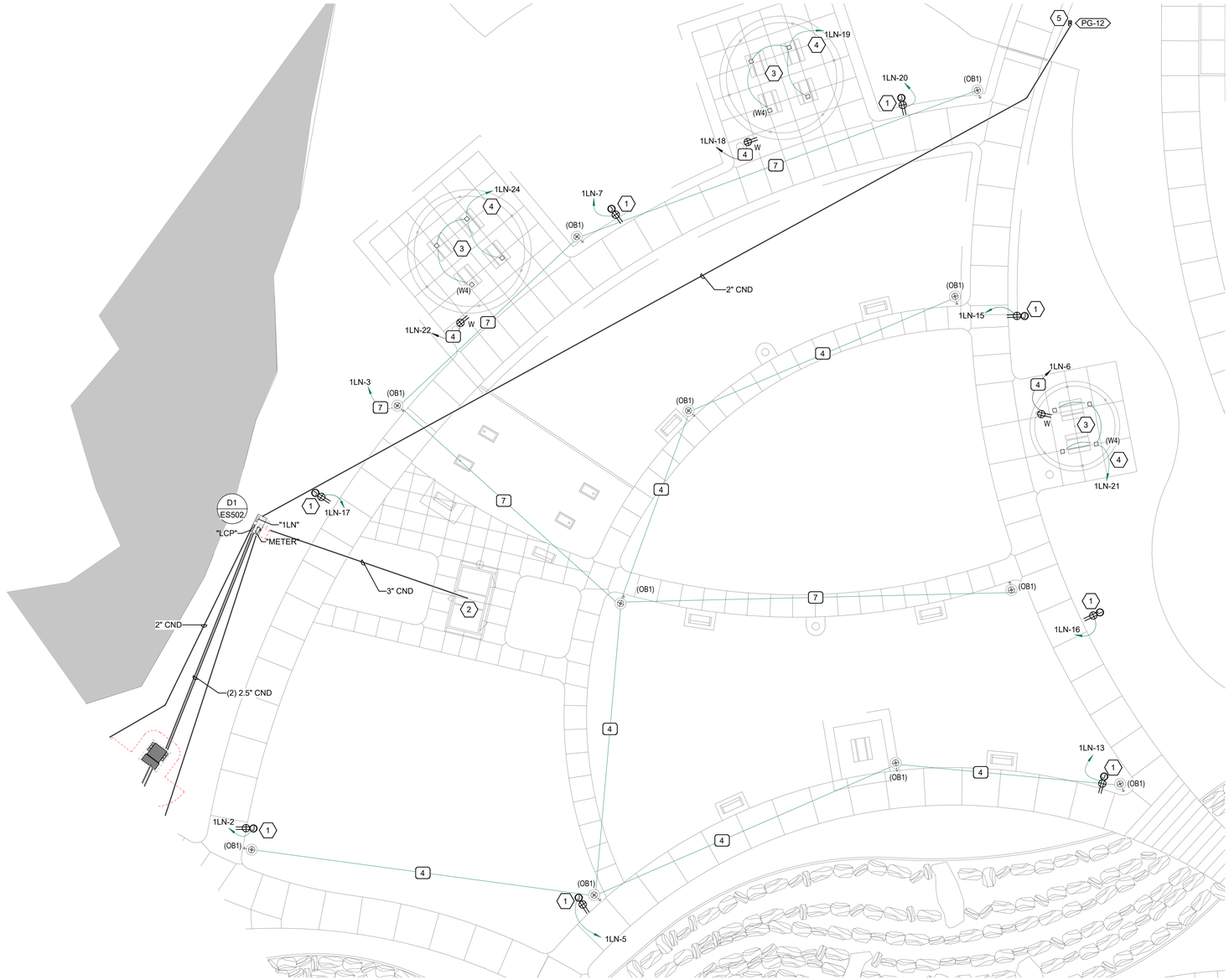
NO.	APPROVED	DESCRIPTION

Stamp

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title
ENLARGED ELECTRICAL PARKING LOT PLAN

Drawing number
ES102



1 ENLARGED ELECTRICAL SITE PLAN - PAVILION AND PLAYGROUND

SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

1 THE ELECTRICAL CONTRACTOR SHALL MEET WITH AND COORDINATE WITH ALL SERVICE PROVIDERS (POWER, COMMUNICATION, CABLE/SATELLITE, ETC.)TO THE FACILITY ON SITE PRIOR TO ANY WORK BEING PREFORMED. CONFIRM WITH EACH SERVICE PROVIDER EXACT LOCATIONS EQUIPMENT AND ROUTING. COMPLY WITH ALL SERVICE PROVIDER'S CURRENT STANDARDS AND REQUIREMENTS. PROVIDE THE REQUIRED EQUIPMENT, RACEWAYS, BOXES, CABLE, ETC. AS REQUIRED BY THE SERVICE PROVIDER WEATHER SHOWN ON THE DRAWINGS OR NOT.

2 FOR ALL LIGHT FIXTURES, POLE LIGHTS, AND ALL OTHER ELECTRICAL DEVICES THE CONTRACTOR SHALL COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS WITH ARCHITECT, OWNER, ENGINEER, AND ALL OF THE CONTRACT DOCUMENTS PRIOR TO ROUGH IN AND TRENCHING.

3 CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BACKFILL, AND COMPACTION ASSOCIATED TO ALL ELECTRICAL UNDERGROUND RACEWAYS AND CABLES. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE UNDERGROUND RACEWAY DETAILS FOR REQUIREMENTS FOR EACH TRENCH.

4 CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS. CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS.

5 THE ELECTRICAL CONTRACTOR SHALL HAVE ANY AND ALL CONCRETE POLE BASES AND SLABS REVIEWED BY A STRUCTURAL ENGINEER AND SHALL MODIFY DESIGN PER STRUCTURAL ENGINEER'S AND OR AHJ'S RECOMMENDATIONS.

6 THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE/ASPHALT CUTTING AND REPLACEMENT OF CONCRETE/ASPHALT TO MATCH EXISTING ASSOCIATED WITH UNDERGROUND RACEWAYS PROVIDED AS PART OF THIS PROJECT.

7 REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.

8 PROVIDE SERVICE RATED EQUIPMENT AT EACH SERVICE ENTRANCE.

9 SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. VERIFY OR RE-CALCULATE THE AVAILABLE FAULT CURRENT AT THE SERVICE WHERE MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR. PLEASE INCLUDE NOTES IN THE ELECTRICAL DRAWINGS OR SUPPLY CALCULATIONS WHERE APPLICABLE. SEE NEC 110.24. (B)

10 THIS PROJECT IS DESIGNED WITH BID ALTERNATE PLANS. THE FINAL SCOPE OF CONSTRUCTION OF THESE DOCUMENTS WILL BE DECIDED AT A LATER DATE BY THE OWNER. COORDINATE EXACT SCOPE OF WORK WITHIN EACH ALTERNATE WITH OWNER PRIOR TO BIDDING.

SHEET KEYNOTES

1 PROVIDE A POWER PEDESTAL WITH GFCI OUTLET FOR CHRISTMAS LIGHTS. REFER TO DETAIL (B1) ON SHEET ES502. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

2 PROVIDE 3" CONDUIT FOR FUTURE RESTROOM PAVILION. CONDUIT TO STUB UP WITHIN RESTROOM FOR FUTURE POWER TO BE DESIGNED BY OTHERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.

3 ALL ELECTRICAL DEVICES AND CIRCUITING IN PAVILION PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR TO PROVIDE HOME-RUN TO PAVILION. COORDINATE WITH OWNER AND PAVILION PROVIDER.

4 CIRCUIT THROUGH LIGHTING CONTROL RELAY PANEL. COORDINATE WITH CITY AND ARCHITECT FOR EXACT PROGRAMMING AND CONTROL SETTINGS.

5 PROVIDE 2" CND WITH PULL STRING TO IN GROUND JUNCTION BOX. JUNCTION BOX INTENDED TO PROVIDE ACCESS FOR FUTURE PHASES TO ELECTRICAL CONNECTION.

CONSTRUCTION DOCUMENTS

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REVISIONS

NO.	APPROVED	DESCRIPTION

Stamp

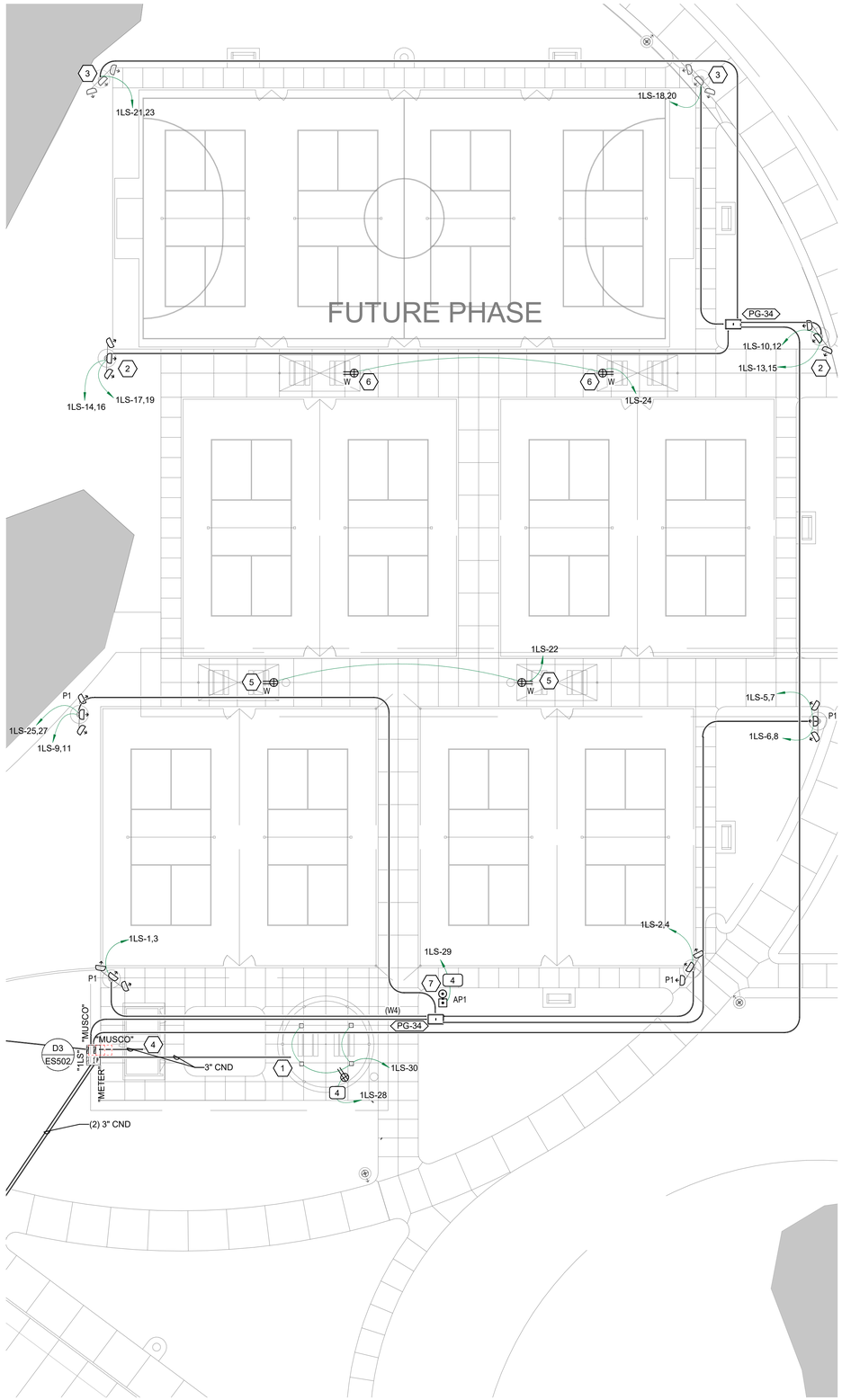
Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title

ENLARGED ELECTRICAL SITE PLAN

Drawing number

ES103



1 PICKLEBALL COURT ENLARGED ELECTRICAL PLAN

SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

1 THE ELECTRICAL CONTRACTOR SHALL MEET WITH AND COORDINATE WITH ALL SERVICE PROVIDERS (POWER, COMMUNICATION, CABLE/SATELLITE, ETC.)TO THE FACILITY ON SITE PRIOR TO ANY WORK BEING PREFORMED. CONFIRM WITH EACH SERVICE PROVIDER EXACT LOCATIONS EQUIPMENT AND ROUTING. COMPLY WITH ALL SERVICE PROVIDER'S CURRENT STANDARDS AND REQUIREMENTS. PROVIDE THE REQUIRED EQUIPMENT, RACEWAYS, BOXES, CABLE, ETC. AS REQUIRED BY THE SERVICE PROVIDER WEATHER SHOWN ON THE DRAWINGS OR NOT.

2 FOR ALL LIGHT FIXTURES, POLE LIGHTS, AND ALL OTHER ELECTRICAL DEVICES THE CONTRACTOR SHALL COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS WITH ARCHITECT, OWNER, ENGINEER, AND ALL OF THE CONTRACT DOCUMENTS PRIOR TO ROUGH IN AND TRENCHING.

3 CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BACKFILL, AND COMPACTION ASSOCIATED TO ALL ELECTRICAL UNDERGROUND RACEWAYS AND CABLES. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE UNDERGROUND RACEWAY DETAILS FOR REQUIREMENTS FOR EACH TRENCH.

4 CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS. CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS.

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6 THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE/ASPHALT CUTTING AND REPLACEMENT OF CONCRETE/ASPHALT TO MATCH EXISTING ASSOCIATED WITH UNDERGROUND RACEWAYS PROVIDED AS PART OF THIS PROJECT.

7 REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.

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SHEET KEYNOTES

1 PROVIDE 3" CONDUIT FOR FUTURE PAVILION. CONDUIT TO STUB UP WITHIN PAVILION FOR FUTURE POWER TO BE DESIGNED BY OTHERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.

2 LIGHT FIXTURES TO ILLUMINATE COURTS BOTH TO THE SOUTH AND TO THE NORTH. INSTALL LIGHT POLE IN THIS PHASE ALONG WITH LIGHT FIXTURES USED TO ILLUMINATE THE SOUTHERN PICKLEBALL COURTS. COORDINATE EXACT REQUIREMENTS WITH 'MUSCO' INSTALLER PRIOR TO ROUGH-IN.

3 'MUSCO' LIGHT FIXTURES TO BE INSTALLED IN A LATER PHASE. CONDUIT FOR 'MUSCO' SPORTS LIGHTING TO BE INSTALLED IN CURRENT PHASE TO PREVENT HAVING TO REMOVE SIDEWALKS TO INSTALL CONDUIT IN FUTURE PHASES. COORDINATE EXACT LOCATION OF CONDUIT STUBS WITH 'MUSCO' INSTALLER PRIOR TO ROUGH-IN.

4 PROVIDE 3" CONDUIT FOR FUTURE RESTROOM PAVILION. CONDUIT TO STUB UP WITHIN RESTROOM FOR FUTURE POWER TO BE DESIGNED BY OTHERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.

5 PROVIDE POWER OUTLET MOUNTED IN CANOPY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.

6 PROVIDE POWER OUTLET MOUNTED IN CANOPY. OUTLET IS TO BE A BID ALTERNATE, IF ALTERNATE IS NOT SELECTED THEN CONDUIT AND FEEDER TO OUTLETS IS STILL TO BE INSTALLED IN CURRENT CONSTRUCTION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.

7 PROVIDE (5) #10 CONDUCTORS FOR OVERRIDE SWITCH AND STROBE BACK TO 'MUSCO' PANEL.

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
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RIDGELINE PARK | PHASE 1

401 WEST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	APPROVAL	DESCRIPTION

Stamp

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title

ENLARGED ELECTRICAL SITE PLAN

Drawing number

ES104

1 SITE LIGHTING CALCULATION PLAN

SCALE: 1" = 60'-0"

Luminaire Schedule						
Qty	Tag	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
16	W4	CLCS17S-40W-4000K	0.765	5672	37.5	600
5	Z54	UCL2-ANG-72L-480-4K7-4W	0.765	12526	110.7	553.5
23	OB1	PA7S-CH5-12L-010-4K7	0.765	1040	14	322

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING	Illuminance	Fc	1.28	3.0	0.1	12.80	30.00
PAVILION AND PLAYGROUND	Illuminance	Fc	1.63	15.5	0.0	N.A.	N.A.
PICKLE BALL COURT WALKWAYS	Illuminance	Fc	0.80	13.7	0.0	N.A.	N.A.

2 LIGHTING CALCULATION SUMMARIES

SCALE: NTS

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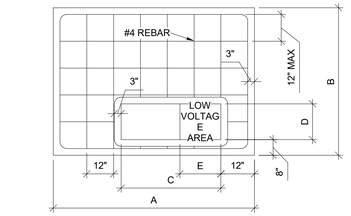
Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

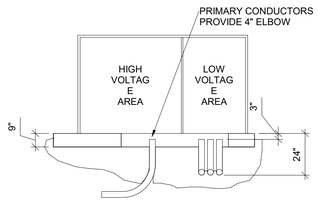
Drawing Title

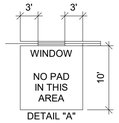
ELECTRICAL SITE LIGHTING CALCULATIONS

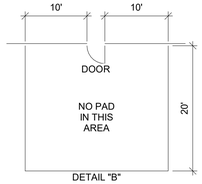
Drawing number

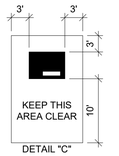
ES201











TRANSFORMER PAD DIMENSION CHART					
TRANSFORMER RATING	DIMENSIONS				
	A	B	C	D	E
75-500 KVA	96"	78"	48"	15"	20"
750-2500 KVA	100"	105"	60"	16"	30"

CONTRACTOR GENERAL NOTES:

1. SITE PREPARATION. ALL SOIL BENEATH THE PAD SITE MUST BE COMPACTED AND LEVEL PRIOR TO SETTING OR POURING THE PAD TO PREVENT SETTLING.

2. CONCRETE. STEEL REINFORCEMENT SHALL BE #4 BARS, PLACED ACCORDING TO THE DRAWING. THE PAD MUST BE POURED AT LEAST SEVEN FULL DAYS PRIOR TO SETTING THE TRANSFORMER. THE FINISHED SURFACE MUST BE COMPLETELY FLAT AND LEVEL. SEE STANDARD 73 036 FOR CONCRETE SPECIFICATIONS.

3. PREFABRICATION. THE PAD MAY EITHER BE CONSTRUCTED ON THE SITE OR PREFABRICATED ACCORDING TO SPECIFICATIONS.

4. CONDUIT WINDOW LAYOUT. LOW VOLTAGE CONDUITS SHALL BE FORMED AS TIGHTLY AS POSSIBLE AGAINST THE RIGHT SIDE OF THE OPENING AND SHALL IN NO CASE EXTEND FURTHER THAN 20" FROM THE RIGHT SIDE OF THE CONDUIT WINDOW ON THE SMALL PAD OR 30" ON THE LARGE PAD. NO MORE THAN 8 CONDUITS WILL BE USED ON THE LOW VOLTAGE SIDE (NOT INCLUDING THE METERING CONDUIT). DO NOT PUT ANY CONCRETE IN OR UNDER THE CONDUIT WINDOW. USE SOIL TO SEPARATE CONDUITS. BELL ENDS ARE REQUIRED FOR ALL METAL CONDUIT, BUT NOT FOR PLASTIC CONDUIT.

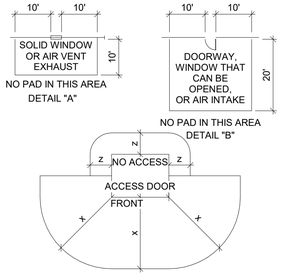
5. CLEARANCES. THE FRONT OF THE PAD SHOULD ALWAYS FACE AWAY FROM ADJACENT STRUCTURES AND BE FREE OF OBSTRUCTIONS. AT LEAST 3 FEET MUST SEPARATE THE EDGES OF THE PAD FROM ANY ADJACENT STRUCTURE. THE EDGES OF THE PAD MUST BE AT LEAST 10 FEET FROM ANY COMBUSTIBLE STRUCTURE. IF AN ADJACENT STRUCTURE HAS ANY OVERHANG OR EAVE WITHIN 27 VERTICAL FEET OF THE TOP OF THE PAD, CLEARANCES MUST BE MEASURED FROM THE OUTSIDE OF THE OVERHANG. THE PAD MUST NOT BE PLACED IN AN AREA 10 FEET IN LINE WITH OR 3 FEET TO EITHER SIDE OF ANY WINDOW IN AN ADJACENT STRUCTURE (SEE DETAIL "A"). CLEARANCE FOR A DOOR MUST BE 20 FEET IN LINE WITH IT AND 10 FEET ON THE SIDES (SEE DETAIL "B"). PADS MUST NOT BE PLACED WITHIN 15 FEET OF ANY VALVE OR WITHIN 20 FEET OF ANY PLUMBING OR STORAGE FACILITY CONTAINING FLAMMABLE MATERIAL. NO WALLS, FENCES, OR ANY OTHER OBSTRUCTIONS WILL BE PLACED WITHIN 3 FEET OF THE SIDES OR BACK OF THE PAD, OR WITHIN 10 FEET OF THE FRONT OF THE PAD (SEE DETAIL "C"). THE AREA IN FRONT OF THE PAD MUST HAVE 10 FEET OF CLEAR, LEVEL WORKING AREA FOR MAINTENANCE OF THE TRANSFORMER. THE PAD MAY NOT BE PLACED IN LINE WITH AN AIR INTAKE WITHIN 32 VERTICAL FEET OF THE SURFACE PAD. ALSO VERTICALLY, IT MUST NOT BE PLACED WITHIN 12 FEET OF A DOOR OR WINDOW.

6. BARRIERS. IF THE TRANSFORMER PAD IS TO BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC, (PARKING LOTS, DRIVEWAYS, ETC) CONTACT UTAH POWER & LIGHT FOR PROTECTIVE BARRIER REQUIREMENTS.

7. IF THE TRANSFORMER WILL NOT COVER THE CABLE OPENINGS ON THESE STANDARD PADS, SEAL THE SIDES OF THE CABLE OPENING TO FIT THE TRANSFORMER USING SAKRETE OR COMPARABLE.

NOTE TO ENGINEER: THIS DETAIL IS NO LONGER THE ROCKY MOUNTAIN POWER (PACIFICORP) STANDARD. USE "PADVAULT.DWG"
INSTEAD. USE THIS DETAIL ONLY IF IT APPLIES TO A DIFFERENT POWER COMPANY FOR A PROJECT.

C1 TRANSFORMER PAD DETAIL
SCALE: NTS



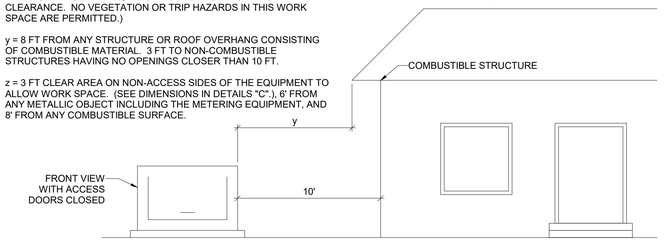
TOP VIEW WITH ACCESS DOORS CLOSED
DETAIL "C"

MINIMUM DISTANCE REQUIRED FROM PAD:

x = 10 FT. CLEAR AREA IN FRONT OF, ANY EQUIPMENT ACCESS DOOR OR OPENING TO ALLOW THE USE OF HOT STICKS. (SEE DIMENSIONS IN DETAIL "C". LOCATE PADMOUNTED EQUIPMENT WITH ACCESS DOORS AWAY FROM BUILDING WALLS OR OTHER BARRIERS TO ALLOW SAFE WORKING PRACTICES. IF THE EQUIPMENT ACCESS SIDE MUST FACE A WALL, ALLOW 10 FEET FOR WORKING CLEARANCE. NO VEGETATION OR TRIP HAZARDS IN THIS WORK SPACE ARE PERMITTED.)

y = 8 FT FROM ANY STRUCTURE OR ROOF OVERHANG CONSISTING OF COMBUSTIBLE MATERIAL. 3 FT TO NON-COMBUSTIBLE STRUCTURES HAVING NO OPENINGS CLOSER THAN 10 FT.

z = 3 FT CLEAR AREA ON NON-ACCESS SIDES OF THE EQUIPMENT TO ALLOW WORK SPACE. (SEE DIMENSIONS IN DETAILS "C"), 6' FROM ANY METALLIC OBJECT INCLUDING THE METERING EQUIPMENT, AND 8' FROM ANY COMBUSTIBLE SURFACE.



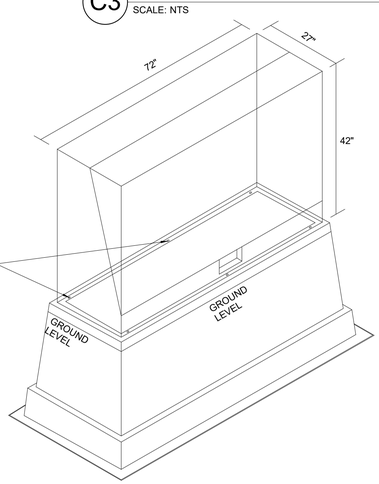
C3 TRANSFORMER CLEARANCE DETAIL
SCALE: NTS

CLEARANCE GENERAL NOTES:

1. CLEARANCES: THE FRONT OF THE PAD SHOULD ALWAYS FACE AWAY FROM ADJACENT STRUCTURES AND BE FREE OF OBSTRUCTIONS. AT LEAST 3 FEET MUST SEPARATE THE EDGES OF THE PAD FROM ANY ADJACENT STRUCTURE. THE EDGES OF THE PAD MUST BE AT LEAST 10 FEET FROM ANY COMBUSTIBLE STRUCTURE. IF AN ADJACENT STRUCTURE HAS ANY OVERHANG OR EAVE WITHIN 27 VERTICAL FEET OF THE TOP OF THE PAD, CLEARANCES MUST BE MEASURED FROM THE OUTSIDE OF THE OVERHANG. THE PAD MUST NOT BE PLACED IN AN AREA 10 FEET IN LINE WITH OR 10 FEET TO EITHER SIDE OF ANY WINDOW IN AN ADJACENT STRUCTURE (SEE DETAIL "A"). CLEARANCE FOR A DOOR MUST BE 20 FEET IN LINE WITH IT AND 10 FEET ON THE SIDES (SEE DETAIL "B"). PADS MUST NOT BE PLACED WITHIN 15 FEET OF ANY VALVE OR WITHIN 25 FEET OF ANY PLUMBING OR STORAGE FACILITY CONTAINING FLAMMABLE MATERIAL. NO WALLS, FENCES, OR ANY OTHER OBSTRUCTIONS WILL BE PLACED WITHIN 3 FEET OF THE SIDES OR BACK OF THE PAD, OR WITHIN 10 FEET OF THE FRONT OF THE PAD (SEE DETAIL "C"). THE AREA IN FRONT OF THE PAD MUST HAVE 10 FEET OF CLEAR, LEVEL WORKING AREA FOR MAINTENANCE OF THE TRANSFORMER. THE PAD MAY NOT BE PLACED IN LINE WITH AN AIR INTAKE WITHIN 32 VERTICAL FEET OF THE SURFACE PAD. ALSO VERTICALLY, IT MUST NOT BE PLACED WITHIN 12 FEET OF A DOOR OR WINDOW. VAULTS SHALL BE LOCATED WITHIN 15 FEET OF A GRAVELED OR PAVED SURFACE SUITABLE FOR INCIDENTAL HEAVY TRUCK ACCESS.

2. BARRIERS: IF THE TRANSFORMER PAD IS TO BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC, (PARKING LOTS, DRIVEWAYS, ETC) CONTACT ROCKY MOUNTAIN POWER FOR PROTECTIVE BARRIER REQUIREMENTS.

3. IF THE TRANSFORMER WILL NOT COVER THE CABLE OPENINGS ON THESE STANDARD PADS, SEAL THE SIDES OF THE CABLE OPENING TO FIT THE TRANSFORMER USING SACKRETE OR COMPARABLE.



B1 GROUND SLEEVE DETAIL
SCALE: NTS

GENERAL SHEET NOTES

1. SCOPE

THIS MATERIAL SPECIFICATION OUTLINES THE MINIMUM REQUIREMENTS FOR PADVAULTS TO BE USED IN CONJUNCTION WITH PACIFICORP- OWNED THREE-PHASE TRANSFORMERS (SEE FIGURE 1). THE MATERIAL SPECIFICATION APPLIES WHETHER THE PADVAULT IS TO BE INSTALLED BY COMPANY PERSONNEL, CONTRACTOR, CUSTOMER, OR THE SUPPLIER.

2. APPLICABLE DOCUMENTS

THE LATEST REVISIONS OF THE DOCUMENTS, STANDARDS, CODES, AND REQUIREMENTS LISTED IN 2.1, PACIFICORP, AND 2.2, CODES AND STANDARDS, IN EFFECT ON THE DATE OF INVITATION TO BID APPLY TO THE EXTENT SPECIFIED HEREIN.

2.1 PACIFICORP

ZG 301 GENERAL EQUIPMENT BASE AND ENCLOSURE REQUIREMENTS

ZG 311 CONCRETE REQUIREMENTS

2.2 CODES AND STANDARDS

WESTERN UNDERGROUND COMMITTEE GUIDE 2.13, SECURITY FOR PADMOUNTED EQUIPMENT ENCLOSURES

APPLICABLE CODES

ANSI STANDARDS

IEEE STANDARDS

NEMA STANDARDS

3. GENERAL

3.1 APPLICATION INFORMATION

THIS MATERIAL SPECIFICATION STATES MATERIAL AND CONSTRUCTION REQUIREMENTS THAT ARE APPLICABLE TO ALL THREE-PHASE TRANSFORMER PADVAULTS.

3.2 AUTHORIZED MATERIAL SPECIFICATION

THIS MATERIAL SPECIFICATION IS NOT CONSIDERED VALID UNTIL EACH PAGE CONTAINS THE APPROVAL SIGNATURE OR INITIALS OF THE PERSONS NAMED IN THE TITLE BLOCKS.

4. APPLICABLE STOCK ITEM NUMBERS

MATERIALS BEING SUBMITTED FOR THE FOLLOWING PACIFICORP STOCK ITEM NUMBERS ARE SUBJECT TO EVALUATION IN ACCORDANCE WITH REQUIREMENTS IN THIS MATERIAL SPECIFICATION.

1790023, PADVAULT, TRANSFORMER, 3-PHASE, 75-500 KVA

1790024, PADVAULT, TRANSFORMER, 3-PHASE, 500-2500 KVA

5. PRODUCT AND INSTALLATION REQUIREMENTS

THE PURPOSE OF A THREE-PHASE TRANSFORMER PADVAULT IS TO SUPPORT A THREE-PHASE TRANSFORMER.

5.1 PADVAULT LAYOUT

THE THREE-PHASE TRANSFORMER PADVAULT IS COMPOSED OF TWO PIECES: (1) THE PAD, AND (2) THE ENCLOSURE. UNLESS OTHERWISE APPROVED BY PACIFICORP ENGINEERING, ALL DIMENSIONS AND PLACEMENT OF HARDWARE SHALL CONFORM TO THOSE SHOWN ON THIS SHEET. THE ENCLOSURE IS COMMON TO ALL PADVAULTS COVERED BY THIS MATERIAL SPECIFICATION, ZG 531, PADVAULT-THREE-PHASE SECTIONALIZING CABINET, AND ZG 551, PADVAULT-THREE-PHASE FUSING CABINET.

5.2 INSERTS

TWO .375" 16UNC STAINLESS STEEL OR NYLON THREADED INSERTS AND STAINLESS STEEL BOLTS WITH CLEATS FOR MOUNTING THE TRANSFORMER SHALL BE PLACED IN THE PAD AS SHOWN IN FIGURE 2.

5.3 PULLING ATTACHMENTS

CABLE PULLING ATTACHMENTS SHALL BE INSTALLED OPPOSITE OF EACH SET OF CONDUIT BREAKOUTS SUCH THAT BLOCKS MAY BE ATTACHED FOR A STRAIGHT CABLE PULL. PULLING ATTACHMENTS SHALL HAVE A MINIMUM PULLOUT STRENGTH OF 6000 POUNDS. ATTACHMENTS SHALL ALLOW THE ATTACHMENT OF A CLEVIS WITH A ONE-INCH DIAMETER THROUGH BOLT. PULLING ATTACHMENTS MAY BE DESIGNED BY THE MANUFACTURER TO MEET THESE REQUIREMENTS.

5.4 CONDUIT ENTRANCES

BANKS OF NINE (9) SIX-INCH SQUARE BREAKOUTS SHALL BE USED FOR CONDUIT ENTRANCES. TWO BANKS OF KNOCKOUTS SHALL BE PLACED IN EACH SIDE AND IN EACH END OF THE ENCLOSURE.

5.5 LIFTING ATTACHMENTS

ENOUGH LIFTING ATTACHMENTS SHALL BE PROVIDED TO ENSURE SAFE INSTALLATION OF ALL PIECES AT THE SITE.
ENOUGH LIFTING ATTACHMENTS SHALL BE PROVIDED TO ENSURE SAFE INSTALLATION OF ALL PIECES AT THE SITE.

5.6 INSTALLATION

THIS UNIT SHALL BE INSTALLED AT THE SITE BY THE SUPPLIER OR CONTRACTOR. ALL EARTH UNDER THE PADVAULT SHALL BE COMPACTED AND LEVEL PRIOR TO SETTING THE PADVAULT. PROVIDE 6" OF 3/4-INCH-MINUS GRAVEL BACKFILL BASE. THE JOINT BETWEEN THE PAD AND ENCLOSURE SHALL BE SEALED USING TAR OR MASTIC. THE TOP OF THE PAD SHOULD BE TWO TO FOUR INCHES ABOVE FINAL GRADE, WHEN INSTALLED.

6. TESTING

6.1 TEST COMPLIANCE

PADVAULTS SUBMITTED UNDER THIS MATERIAL SPECIFICATION SHALL MEET ALL TESTS AND REQUIREMENTS CONTAINED IN ZG 301, GENERAL EQUIPMENT BASE AND ENCLOSURE REQUIREMENTS, ZG 311, CONCRETE REQUIREMENTS, AND THIS MATERIAL SPECIFICATION. PADVAULTS WILL ALSO COMPLY WITH REQUIREMENTS IN APPLICABLE NATIONAL STANDARDS.

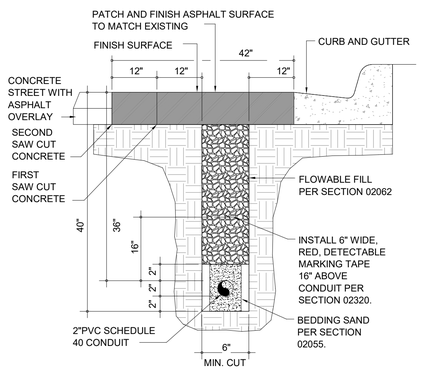
6.2 SECURITY TEST

TRANSFORMER PADVAULTS MUST BE ABLE TO PASS THE FOLLOWING SECURITY TEST. THE SECURITY TEST IS DESIGNED TO ENSURE THAT PADMOUNT EQUIPMENT, WHICH COMPLIES WITH WESTERN UNDERGROUND COMMITTEE GUIDE 2.13, SECURITY FOR PADMOUNTED EQUIPMENT ENCLOSURES, IS NOT COMPROMISED BY UNEVEN PAD SETTING.

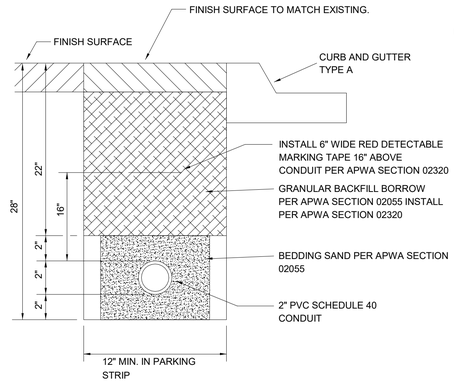
WITH THE APPROPRIATE TRANSFORMER MOUNTED, ATTEMPT TO PASS A #14 AWG SOFT-DRAWN COPPER WIRE THROUGH THE INTERFACE BETWEEN THE CABINET AND PAD. IF THE WIRE CAN BE PASSED THROUGH, THE PADVAULT HAS FAILED THE TEST AND IS NOT ACCEPTABLE.

7. PROVIDE AMCOR TYPE GV151 PADVAULT OR AS APPROVED OR DIRECTED BY ROCKY MOUNTAIN POWER.

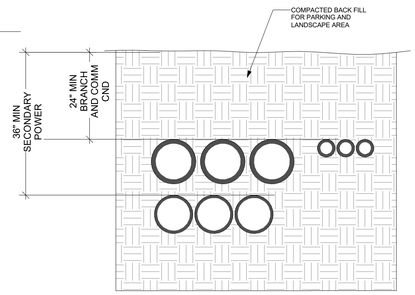
8. REQUIREMENTS ARE SUBJECT TO CHANGE. SUBMIT PADVAULT TO ROCKY MOUNTAIN POWER FOR APPROVAL PRIOR TO THE PURCHASE AND INSTALLATION OF THE PADVAULT, AND INCLUDE ALL COSTS IN BID.



A1 TRENCH DETAIL - IN STREET
SCALE: NTS



A2 TRENCH DETAIL - NON TRAFFIC AREA
SCALE: NTS



NOTES:

1. ALL BENDS SHALL BE LARGE RADIUS.

2. ALL CONDUIT ABOVE GROUND, ALL BENDS AND FIRST 10' BELOW GROUND SHALL BE PVC WRAPPED RMC. CONDUIT BELOW GROUND MAY BE PVC.

3. PROVIDE POLYPROPYLENE PULL ROPE IN EMPTY CONDUITS.

A3 TYPICAL CONDUIT DIRECT BURY DETAIL
SCALE: NTS

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RIDGELINE PARK | PHASE 1

401 WEST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	APPROVED	DESCRIPTION

Stamp

CONSTRUCTION DOCUMENTS

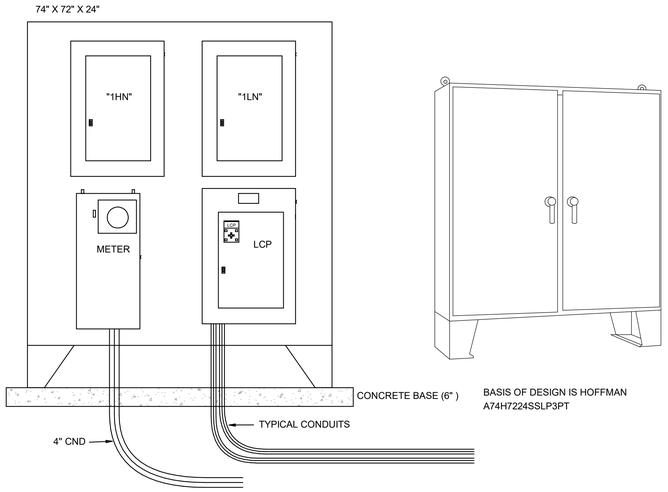
Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title

SITE ELECTRICAL DETAILS

Drawing number

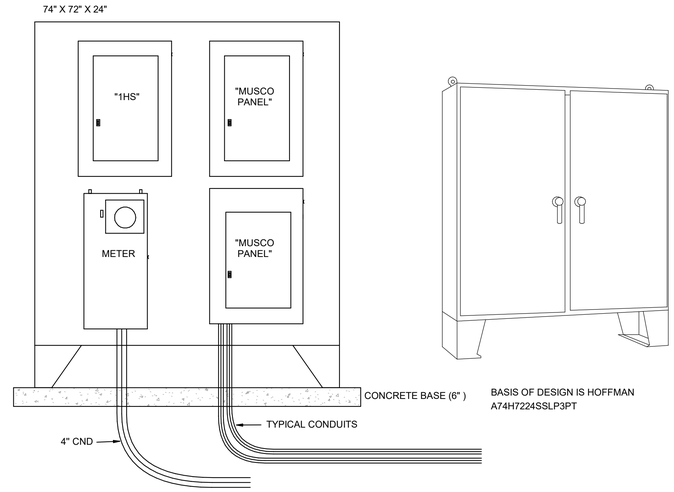
ES501



GENERAL NOTES:
1. PROVIDE NEMA 4X STAINLESS STEEL ENCLOSURE.
2. ELECTRICAL CONTRACTOR MUST CONFIRM ENCLOSURE WITH ELECTRICAL ENGINEER BEFORE INSTALLATION.

D1 FREESTANDING STRONG BOX WITH PANEL AND GEAR DETAIL FOR NORTHERN ELECTRICAL SERVICE

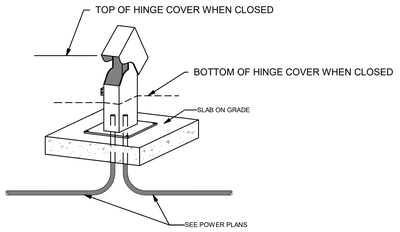
SCALE: NTS



GENERAL NOTES:
1. PROVIDE NEMA 4X STAINLESS STEEL ENCLOSURE.
2. ELECTRICAL CONTRACTOR MUST CONFIRM ENCLOSURE WITH ELECTRICAL ENGINEER BEFORE INSTALLATION.

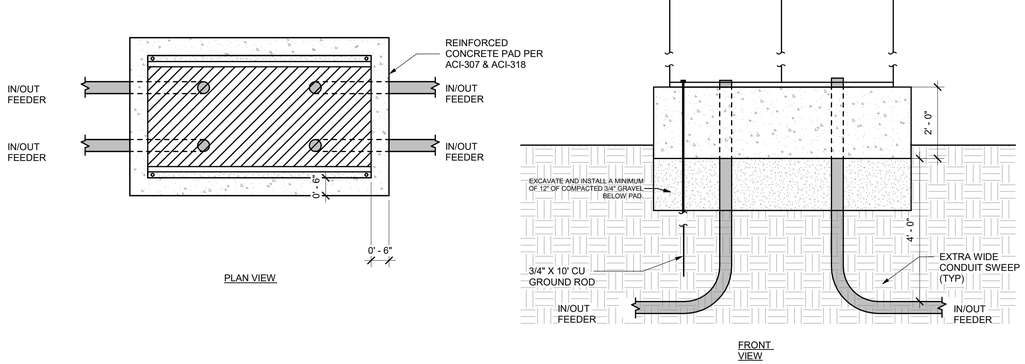
D3 FREESTANDING STRONG BOX WITH PANEL AND GEAR DETAIL FOR SOUTHERN ELECTRICAL SERVICE

SCALE: NTS



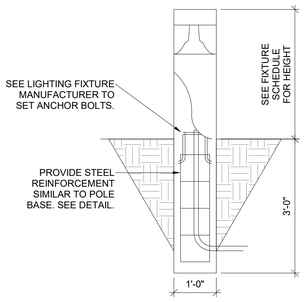
B1 HINGE TOP POWER PEDESTAL SLAB ON GRADE DETAIL

SCALE: NTS



B3 TYPICAL CONCRETE BASE FOR MOUNTED STRONG BOX DETAIL

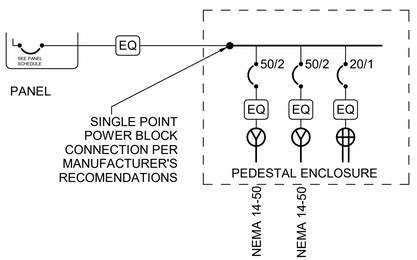
SCALE: NTS

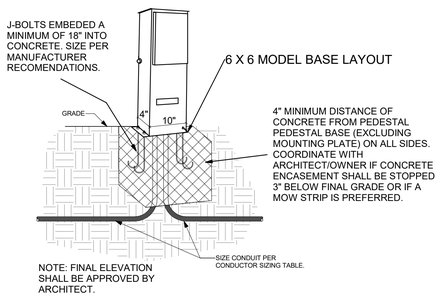


A1 BOLLARD MOUNTING DETAIL

SCALE: NTS

HEAVY DUTY POWER PEDESTAL		
TAG	MANUFACTURER	CATALOG NUMBER
PP1G	EATON	CHU1N7N4NP
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PEDESTAL DESIGN FROM MANUFACTURER TO ENGINEER FOR REVIEW PRIOR TO ORDERING.		ORDER CONTACT:





NOTE
ALL DIMENSIONS ARE IN INCHES

A2 POWER PEDESTAL AND DETAIL SCHEDULE

SCALE: NTS

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REVISIONS

NO.	APPROVAL	DESCRIPTION

Stamp

CONSTRUCTION DOCUMENTS

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title
SITE ELECTRICAL DETAILS

Drawing number
ES502

APPLICATION TIERS	TYPE	DESCRIPTION
LIGHT DUTY	VERTICAL	PEDESTRIAN TRAFFIC ONLY.
TIER 5	VERTICAL	SIDEWALK APPLICATIONS WITH A SAFTEY FACTOR FOR OCCCASIONAL ACCIDENTAL VEHICULAR TRAFFIC.
	LATERAL	
TIER 8	VERTICAL	SIDEWALK APPLICATIONS WITH A SAFTEY FACTOR FOR OCCCASIONAL ACCIDENTAL VEHICULAR TRAFFIC.
	LATERAL	
TIER 15	VERTICAL	DRIEVEWAY, PARKING LOT, AND OFF ROAD APPLICATIONS SUBJECT TO OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC.
	LATERAL	
TIER 22	VERTICAL	DRIVEWAY, PARKING LOT, AND OFF ROAD APPLICATIONS SUBJECT TO NON-DELIBERATE HEAVY VEHICULAR TRAFFIC.
	LATERAL	

BOX OPTIONS	DESCRIPTION
BA	BOX WITH OPEN BOTTOM
BB	BOX WITH MOUSE HOLES
BC	DIVIDED BOX
BG	GASKETED BOX WITH OPEN BOTTOM
DA	BOX WITH SOLID BOTTOM
DG	GASKETED BOX WITH SOLID BOTTOM
JA	FOOTED BOX
EA	EXTENSION
RA	SOLID BASE EXTENSION

COVER OPTIONS	DESCRIPTION
CA	BOLT DOWN COVER
WA	STANDARD WITH NO BOLTS
LR	CAST IRON 6 4-1/2" X 7-1/2" LID
LP	CAST IRON 6"X12" LID
LQ	CAST IRON 9"X12" LID
LK	POLYMER CONCRETE 6"X9" DROP-IN LID
LL	POLYMER CONCRETE 7" X 13" DROP-IN LID
LS	THROUGH SLOT (NO METER LID)
O2	OPENS UNDER 90^{O}
OO	USED WITH DROP-IN LID

SYMBOLS LEGEND

PG-34 PG-22 PG-23 PG-22 PG-12

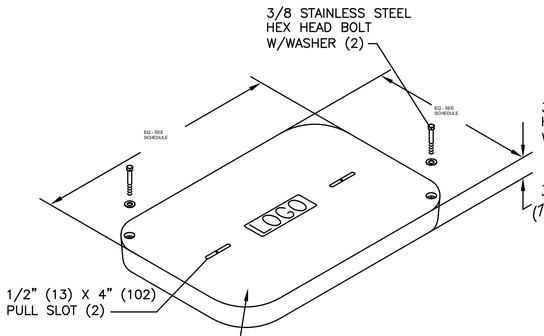
NOTES:
1. CONTRACTOR SHALL PROVIDE A SUBMITTAL ON ALL UNDERGROUND ENCLOSURES FOR THIS PROJECT.
2. ALL ENCLOSURES SHALL BE UL LISTED
3. CONTRACTOR SHALL COORDINATE THE TIER RATING WITH CIVIL ENGINEER AND ARCHITECT IN THE SUBMITTAL PROCESS.
4. CONTRACTOR SHALL ADJUST THE SIZE OF THE ENCLOSURE AS REQUIRED FOR INSTALLATION. SUBMIT AN RFI OR PROVIDE SOME OTHER DOCUMENTATION SO THAT THE DESIGN TEAM AND OWNER UNDERSTAND THIS MODIFICATION PRIOR TO MOVING FORWARD WITH ADJUSTED SIZE OF ENCLOSURE.
5. PROVIDE BASIS OF DESIGN (BOD) ENCLOSURE OR PRE-APPROVED EQUAL.

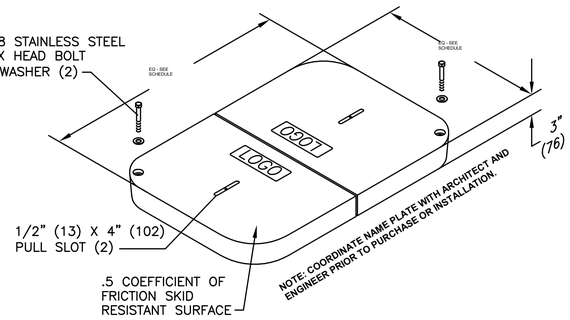
FIXTURE STYLES

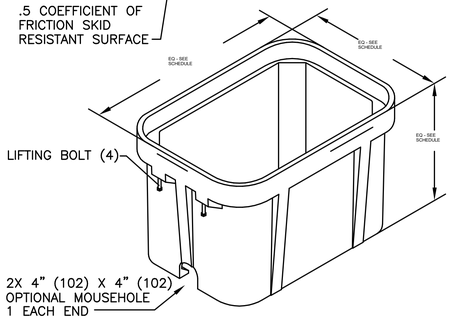
STYLE NAME	DESCRIPTION	IMAGES
PG	STRAIGHT SIDES ALLOW FOR EASY ASJUSTMENT OF BOX SHOULD THE GRADE LEVEL CHANGE. USED FOR A VARIETY OF PURPOSES, SUCH AS A SPLICE BOX, PULL BOX, EQUIPMENT ENCLOSURE, OR FOR ANY APPLICATION REQUIRING EASY ACCESS TO AN UNDERGROUND SERVICE. PG BOXES ARE STACKABLE FOR INCREASED DEPTH.	
PC	STRAIGHT SIDES ALLOW FOR EASY ASJUSTMENT OF BOX SHOULD THE GRADE LEVEL CHANGE. ALL PC BOXES ARE STACKABLE AND ARE AVAILABLE WITH GASKETING.	
PX	PX STYLES ARE EXCELLENT FOR SERVICE BOX ASSEMBLIES AND OFFER FLARED DESIGN TO PREVENT FROST HEAVE. PX BOXES ARE ALSO NESTABLE FOR COMPACT STORAGE.	
PT	THE FLARED DESIGN PREVENTS FROST HEAVE AND COVERS ARE INTERCHANGABLE WITH MANY PRECAST CONCRETE PARTS. PT BOXES ARE ALSO NESTABLE FOR COMPACT STORAGE.	
PD	THESE ENCLOSURES FEATURE A 1 DEGREE FLARE FOR MAXIMUM STRENGTH. FLARED DESIGN OPTIMIZES INTERNAL VOLUME AND MINIMIZES FROST HEAVE.	

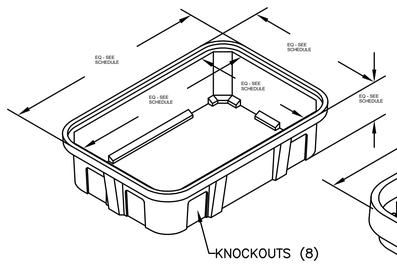
UNDER GROUND ENCLOSURE SCHEDULE

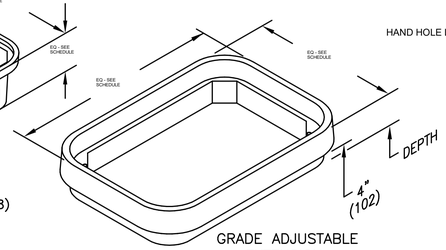
ID	IMAGE	BOX DESCRIPTION	LENGTH	WIDTH	DEPTH	ABOVE GRADE HEIGHT	BASIS OF DESIGN MANUFACTURE PART NO.	BOX OPTIONS	COVER LOGO	COVER OPTIONS	STYLE	TRAFFIC TIER NO.

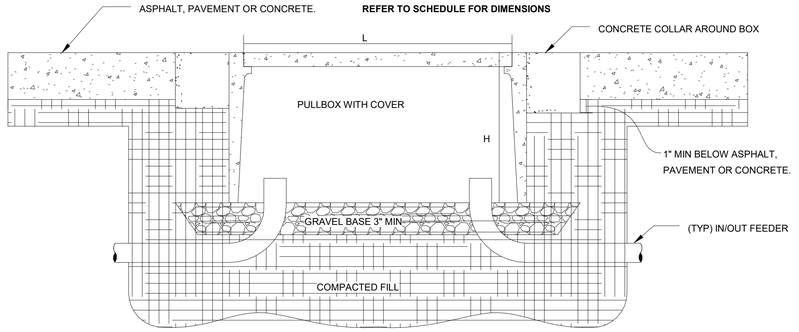




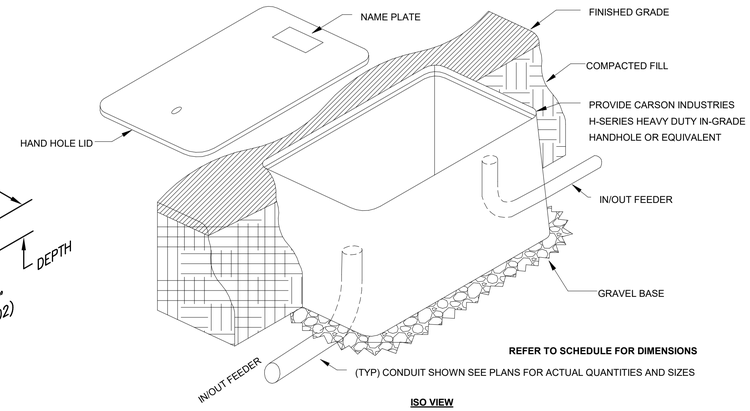








SECTION VIEW



ISO VIEW

A1 TYPICAL UNDERGROUND JUNCTION BOX DETAIL
SCALE: NTS

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35 years
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CONSTRUCTION DOCUMENTS

RIDGELINE PARK | PHASE 1
401 WEST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	(yr/mm/dd)	DESCRIPTION

Stamp

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title
SITE JUNCTION BOX DETAILS

Drawing number
ES505

LIGHT POLE PIER FOOTING SCHEDULE[1]

LEGEND
X^X — SUPERSCRIPT, SEE CORRESPONDING NOTE

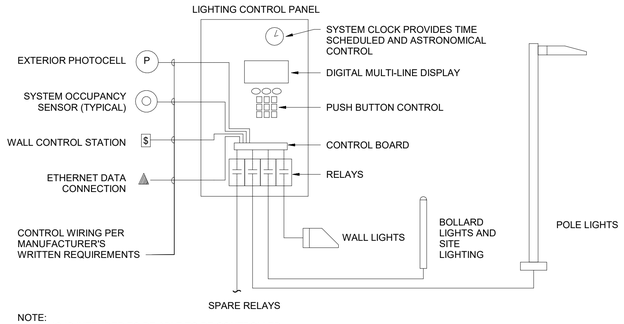
WIND SPEED (mph)	MAX EPA (FT^2)	LIGHT POLE HEIGHT (ft)	LIGHT POLE DIA (in) max	FOOTING DIAMETER,d (in)	h=MIN FOUNDATION[2] EMBED. (ft)	VERTICAL REINF. BAR SIZE	VERTICAL BAR QUANTITY	CIRC.TIE BAR SIZE	CIRC. TIE SPACING (in)
120	2	30	8	24	7'-6"	#5	8	#4	12" O.C.
120	2	25	8	24	6'-6"	#5	8	#4	12" O.C.
120	2	20	8	24	6'-0 "	#5	8	#4	12" O.C.
120	2	15	8	24	5'-0"	#5	8	#4	12" O.C.
120	2	10	8	24	4'-6"	#5	8	#4	12" O.C.
120	2	30[3]	8	18	-	-	-	-	-
120	2	25[3]	8	18	-	-	-	-	-
120	2	20	8	18	6'-0"	#5	5	#4	12" O.C.
120	2	15	8	18	5'-0"	#5	5	#4	12" O.C.
120	2	10	8	18	4'-6"	#5	5	#4	12" O.C.
120	2	30[3]	6	16	-	-	-	-	-
120	2	25[3]	6	16	-	-	-	-	-
120	2	20	6	16	6'-6"	#5	4	#4	12" O.C.
120	2	15	6	16	5'-6"	#5	4	#4	12" O.C.
120	2	10	6	16	4'-6"	#5	4	#4	12" O.C.

NOTE:
1. CONTRACTOR SHALL SUBMIT DEFERRED SUBMITTAL FOR LIGHT POST FOOTING TO ENGINEER OF RECORD. SCHEDULE ABOVE IS FOR BIDDING PURPOSES ONLY.

2. SCHEDULE ABOVE ASSUMES CLAY OR SILT SOIL CONDITIONS WITH SEISMIC CLASS D AND DEFAULT SOIL PARAMETERS FROM IBC SECTION 1806.2

3. EXCEEDS THE MAXIMUM BEARING CAPACITY OF 1500 PSF. VERIFY ALLOWABLE SOIL BEARING WITH SOILS REPORT.

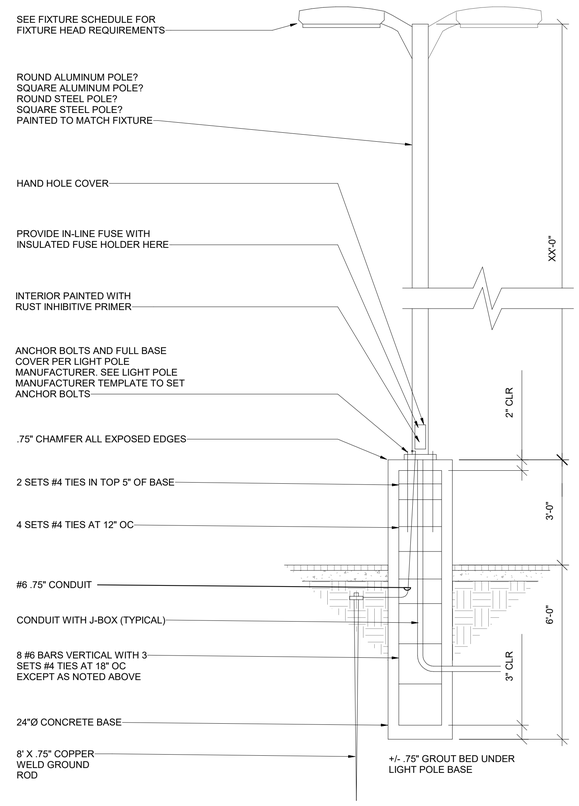
4. TOP SOIL SHALL NOT BE USED TO RESIST LATERAL LOAD IN FOOTING. THE EMBED DEPTH IN THE TABLE SHALL BE BEGIN BELOW THE BASE OF THE TOP SOIL AS SHOWN IN THE ELEVATION.
5. SECTION VIEW IS FOR VISUAL REPRESENTATION ONLY. VERIFY BAR QUANTITY WITH SCHEDULE60,000 PSI REBAR YIELD STRENGTH
6. CONCRETE MIX SHALL BE FOR EXTERIOR CONCRETE SUBJECT TO FREEZE THAW CONATIONS WITH THE MINIMUM PROPERTIES.
A. 3000 PSI
B. TYPE II PORTLAND CEMENT
C. WATER TO CEMENT RATIO = 0.5%
D. AIR ENTRAINMENT = 5%
E. MAX AGGREGATE SIZE= 1"
F. CONCRETE EXPOSURE CLASS= F2, S0, C1
G. 4" SLUMP BEFORE ADDITION OF PLASTICIZER



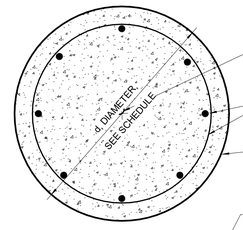
NOTE:
LIGHTING IS INTENDED TO BE ABLE TO BE CONTROLLED BOTH AUTOMATICALLY AND MANUALLY THROUGHOUT

MANUFACTURER'S:
WATTSTOPPER - LPX PEANUT LIGHTING CONTROL PANELS
HUBBELL - CX LIGHTING CONTROL PANELS
OR APPROVED EQUAL

1 LIGHTING CONTROL PANEL RISER DIAGRAM (TYPICAL)
SCALE: NTS

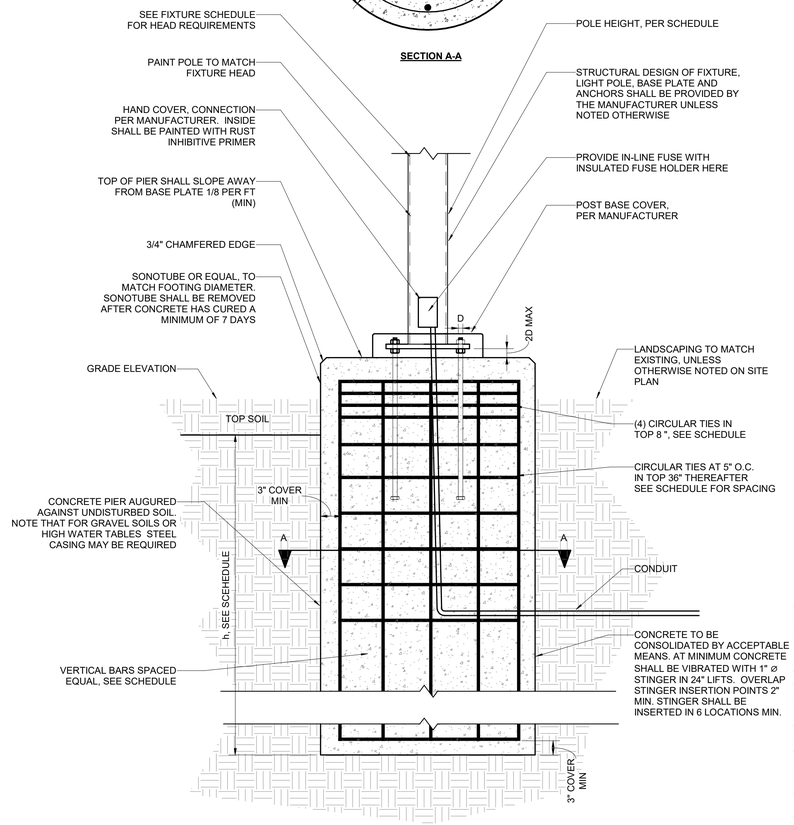


A1 PARKING LOT LIGHT POLE BASE DETAIL2
SCALE: 3/16" = 1'-0"



CONDUIT, SEE ELECTRICAL SITE PLAN
PIER REINFORCING, SEE DETAIL ELEVATION
AUGURED PIER FOOTING, SEE DETAIL ELEVATION

SECTION A-A



A4 TYPICAL LIGHT POLE FOOTING SCHEDULE
SCALE: NTS

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture |design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S.
NIBLEY, UT 84321

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801-328-5151
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www.spectrum-engineers.com

RIDGELINE PARK | PHASE 1

401 WEST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO	APPROVAL	DESCRIPTION

Stamp

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title

ELECTRICAL SITE LIGHTING DETAILS AND SCHEDULES

Drawing number

ES508

PANEL: "1LN"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/240 V, 1 PH 3 WIRE	22" W x 6" D, BOLT-ON	400 AMPERE	CT	SURFACE		

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — **AIC RATING:**

CKT	OCP			LOAD (kVA)				PHASE LOAD					LOAD (kVA)			OCP			CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A		B		DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		0.0	0.2	0.0	LIGHTING	0.2	8.0			CO	0.0	8.0	0.0		1	20	2
3	20	1		0.0	0.0	0.0	LTG			0.2	0.2	LTG	0.0	0.0	0.0		1	20	4
5	20	1		0.0	0.0	0.2	CO: POWER PEDESTAL	0.2	0.2			CO: POWER PEDESTAL	0.2	0.0	0.0		1	20	6
7	20	1		0.0	0.0	0.2	CO: POWER PEDESTAL			0.2	0.6	LIGHTING	0.0	0.0	0.6		1	20	8
9	20	2		0.0	8.0	0.0	PWR: FOOD TRUCKS	4.0	4.0			PWR: FOOD TRUCKS	0.0	8.0	0.0		2	125	10
11	--	--		--	--	--	--			4.0	4.0	--	--	--	--		--	--	12
13	20	1		0.0	0.0	0.2	CO: POWER PEDESTAL	0.2	0.2			CO: POWER PEDESTAL	0.2	0.0	0.0		1	20	14
15	20	1		0.0	0.0	0.2	CO: POWER PEDESTAL			0.2	0.2	CO: POWER PEDESTAL	0.2	0.0	0.0		1	20	16
17	20	1		0.0	0.0	0.2	CO: POWER PEDESTAL	0.2	0.2			CO: POWER PEDESTAL	0.2	0.0	0.0		1	20	18
19	20	1		0.3	0.0	0.0	LIGHTING			0.3	0.2	CO: POWER PEDESTAL	0.2	0.0	0.0		1	20	20
21	20	1		0.3	0.0	0.0	LIGHTING	0.3	0.2			CO: POWER PEDESTAL	0.2	0.0	0.0		1	20	22
23	125	2		0.0	8.0	0.0	PWR: FOOD TRUCKS			4.0	0.3	LIGHTING	0.0	0.0	0.3		1	20	24
25	--	--		--	--	--	--	4.0	0.3			LIGHTING	0.0	0.0	0.3		1	20	26
27	100	2		0.0	15.7	0.0	PWR: IRRIGATION PUMP			7.8	4.0	PWR: FOOD TRUCKS	0.0	8.0	0.0		2	125	28
29	--	--		--	--	--	--	7.8	4.0			--	--	--	--		--	--	30
31	20	1		--	--	--	SPARE			0.0	0.0	SPARE	--	--	--		1	20	32
33	20	1		--	--	--	SPARE	0.0	0.0			SPARE	--	--	--		1	20	34
35	20	1		--	--	--	SPARE			0.0	0.0	SPARE	--	--	--		1	20	36
37	20	1		--	--	--	SPARE	0.0	0.0			SPARE	--	--	--		2	20	38
39	20	1		--	--	--	SPARE			0.0	0.0	--	--	--	--		--	--	40
41	20	1		--	--	--	SPARE	0.0	0.0			SPARE	--	--	--		1	20	42
TOTALS:							CONNECTED kVA PER PHASE	**34**		**26**		CONNECTED TOTAL kVA =			**60**				
							CONNECTED AMPS PER PHASE	**281**		**216**		AVERAGE CONNECTED AMPS PER PHASE =			**249**				

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: **1.6 kVA @ 125% = 2.0 kVA** - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **60**

RECEPTACLES: **2.0 kVA @ 100% = 2.0 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **251**

ALL OTHER LOADS @ 100% : **55.9 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "1LS"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/240 V, 1 PH 3 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE	CT	SURFACE		

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — **AIC RATING:**

CKT	OCP			LOAD (kVA)				PHASE LOAD					LOAD (kVA)			OCP			CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A		B		DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	2		0.0	1.8	0.0	PWR: MUSCO LIGHTING	0.9	0.9			PWR: MUSCO LIGHTING	0.0	1.8	0.0		2	20	2
3	--	--		--	--	--	--			0.9	0.9	--	--	--	--		--	--	4
5	20	2		0.0	2.2	0.0	PWR: MUSCO LIGHTING	1.1	1.1			PWR: MUSCO LIGHTING	0.0	2.2	0.0		2	20	6
7	--	--		--	--	--	--			1.1	1.1	--	--	--	--		--	--	8
9	20	2		0.0	1.8	0.0	PWR: MUSCO LIGHTING	0.9	1.1			PWR: MUSCO LIGHTING	0.0	2.2	0.0		2	20	10
11	--	--		--	--	--	--			0.9	1.1	--	--	--	--		--	--	12
13	20	2		0.0	2.0	0.0	PWR: MUSCO LIGHTING	1.0	1.0			PWR: MUSCO LIGHTING	0.0	2.0	0.0		2	20	14
15	--	--		--	--	--	--			1.0	1.0	--	--	--	--		--	--	16
17	20	2		0.0	2.2	0.0	PWR: MUSCO LIGHTING	1.1	1.0			PWR: MUSCO LIGHTING	0.0	2.0	0.0		2	20	18
19	--	--		--	--	--	--			1.1	1.0	--	--	--	--		--	--	20
21	20	2		0.0	2.0	0.0	PWR: MUSCO LIGHTING	1.0	0.4			CO: COURT OUTLETS	0.4	0.0	0.0		1	20	22
23	--	--		--	--	--	--			1.0	0.4	CO: COURT OUTLETS	0.4	0.0	0.0		1	20	24
25	20	2		0.0	2.2	0.0	PWR: MUSCO LIGHTING	1.1	0.0			MUSCO LTG CONTROLLER	--	--	--		1	20	26
27	--	--		--	--	--	--			1.1	0.2	CO	0.2	0.0	0.0		1	20	28
29	20	1		0.0	0.0	0.0	PWR: MUSCO CONTROL BUTTON	0.0	0.1			LIGHTING	0.0	0.0	0.1		1	20	30
31	20	1		--	--	--	SPARE			0.0	0.0	SPARE	--	--	--		1	20	32
33	20	1		--	--	--	SPARE	0.0	0.0			SPARE	--	--	--		1	20	34
35	20	1		--	--	--	SPARE			0.0	0.0	SPARE	--	--	--		1	20	36
37	20	1		--	--	--	SPARE	0.0	0.0			SPARE	--	--	--		1	20	38
39	20	1		--	--	--	SPARE			0.0	0.0	SPARE	--	--	--		1	20	40
41	20	1		--	--	--	SPARE	0.0	0.0			SPARE	--	--	--		1	20	42
TOTALS:							CONNECTED kVA PER PHASE	**13**		**13**		CONNECTED TOTAL kVA =			**25**				
							CONNECTED AMPS PER PHASE	**105**		**106**		AVERAGE CONNECTED AMPS PER PHASE =			**105**				

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: **0.1 kVA @ 125% = 0.1 kVA** - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **25**

RECEPTACLES: **0.9 kVA @ 100% = 0.9 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **105**

ALL OTHER LOADS @ 100% : **24.3 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

EQUIPMENT NAMEPLATE SCHEDULE

EQUIPMENT ID SCHEME	FIRST DIGIT - BUILDING LEVEL (0, 1, 2, ETC) SECOND DIGIT - PANEL TYPE M - MECHANICAL H - (277/480) L - (120/208) E - EMERGENCY S - STANDBY Q - EQUIPMENT U - UPS K - KITCHEN (120/208) THIRD DIGIT - BUILDING AREA (A, B, C, ETC) FOURTH DIGIT - SEQUENCE # (1,2,3,...)
LABEL FORMAT	[NAME] [SYSTEM] [VOLTAGE] [FED FROM] [SOURSE(S)]
LABEL EXAMPLE	PANEL "4LA1" STANDBY POWER 120/208V FED FROM BUS-A / XFMR 4TA
BUSWAY	LABEL BUSWAY EVERY 6' WHERE EXPOSED TO VIEW AND EVERY 15' WHERE NOT EXPOSED TO VIEW
OTHER	

COLOR SCHEME

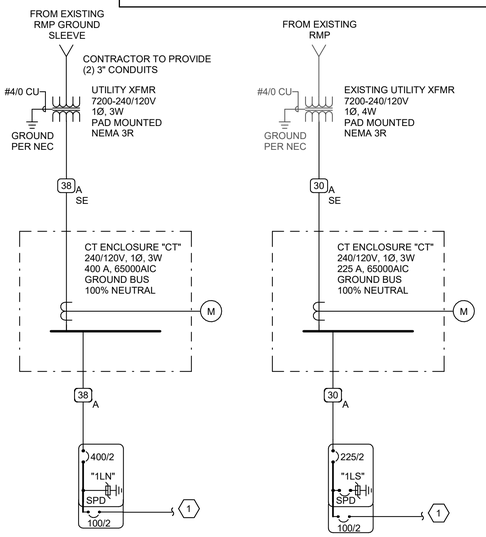
		NAMEPLATE COLOR	
SYSTEM	EQUIPMENT	TEXT	BACKGROUND
NORMAL POWER	ALL GEAR NOT INCLUDED BELOW	WHITE	BLACK
STANDBY POWER	MDPS1 AND ALL DOWNSTREAM GEAR, EXCEPT UPS GEAR AS NOTED	WHITE	ORANGE
EMERGENCY POWER	GDP1, GDP2, ATS-E AND ALL DOWNSTREAM GEAR	WHITE	RED
LEGALLY-REQUIRED STANDBY POWER	ATS-S AND ALL DOWNSTREAM GEAR	RED	WHITE
UPS "A" POWER	UPSA AND ALL DOWNSTREAM GEAR	WHITE	BLUE
UPS "B" POWER	UPSB AND ALL DOWNSTREAM GEAR	BLACK	YELLOW

BRANCH CIRUIT CONDUCTOR AND CONDUIT SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	CONDUCTOR SIZE (PHASE, NEUTRAL AND GR)	CONDUIT SIZE
20A/120V	0' - 60'	#12 AWG	0.75" Ø
20A/120V	60' - 95'	#10 AWG	0.75" Ø
20A/120V	95' - 150'	#8 AWG	1" Ø
20A/120V	150' - 240'	#6 AWG	1.25" Ø
20A/277V	0' - 140'	#12 AWG	0.75" Ø
20A/277V	140' - 220'	#10 AWG	0.75" Ø
20A/277V	220' - 350'	#8 AWG	1" Ø
20A/277V	350' - 550'	#6 AWG	1.25" Ø

NOTES:

1. WIRE SIZING IS BASED ON COPPER CONDUCTORS SUPPLYING A 20A, 120V CIRCUIT A THE INDICATED VOLATAGE, ASSUMED TO BE 80% LOAD (16A), WITH MAXIMUM VOLTAGE DROP OF 3% AT THE LOAD.
2. DOWN-SIZE WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.
3. CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.



COPPER CONDUCTOR AND CONDUIT SCHEDULE

SYM	AMP	HH AMPS	CONDUIT SIZE	CONDUCTOR (NOTE 1) QTY	SIZE	G	IG/HH	SE	NOTES
1	20	-	.75	2	12	12	12	8	2
2	20	-	.75	3	12	12	12	8	2,3
3	20	24	.75	4	12	12	12	8	2,3
4	30	-	.75	2	10	10	10	8	2
5	30	-	.75	3	10	10	10	8	2
6	30	32	.75	4	10	10	10	8	2
7	40	-	1	2	8	10	8	6	2
8	40	-	1	3	8	10	8	6	2
9	40	44	1	4	8	10	8	6	2
10	55	-	1	2	6	10	8	4	2
11	55	-	1	3	6	10	8	4	2
12	55	60	1.25	4	6	10	8	4	2
13	70	-	1	2	4	8	4	2	2
14	70	-	1.25	3	4	8	4	2	2
15	70	76	1.25	4	4	8	4	2	2
16	85	-	1.25	2	3	8	3	2	2
17	85	-	1.25	3	3	8	3	2	2
18	85	92	1.25	4	3	8	3	2	2
19	95	-	1.25	3	2	8	2	2	2
20	95	104	1.50	4	2	8	2	2	2
21	130	-	1.50	3	1	6	2	2	2
22	130	116	1.50	4	1	6	2	2	2
23	150	-	2	3	1/0	6	2	1/0	2
24	150	136	2	4	1/0	6	2	1/0	2
25	175	-	2	3	2/0	6	2	2/0	2
26	175	156	2	4	2/0	6	2	2/0	2
27	200	-	2	3	3/0	6	2	2/0	2
28	200	180	2.50	4	3/0	6	2	2/0	2
29	230	-	2.50	3	4/0	4	2	2/0	2
30	230	208	2.50	4	4/0	4	2	2/0	2
31	255	-	2.50	3	250	4	1	2/0	2
32	255	232	2.50	4	250	4	1	2/0	2
33	310	-	3	3	350	3	1/0	3/0	2
34	310	280	3	4	350	3	1/0	3/0	2
35	380	-	3.50	3	500	3	3/0	3/0	2
36	380	344	4	4	500	3	3/0	3/0	2
37	400	-	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	360	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	-	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	464	2 EA 3	4	250	1	4/0	3/0	2
41	620	-	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	560	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	-	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	760	688	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	-	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	768	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	-	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	912	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	-	3 EA 4	3	500	3/0	4/0	3/0	4
50	1140	1032	3 EA 4	4	500	3/0	4/0	3/0	4
51	1240	-	4 EA 3	3	350	3/0	4/0	3/0	4
52	1240	1120	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	1520	5 EA 4	4	400	4/0	4/0	4/0	4
54	2010	1824	6 EA 4	4	400	250	250	250	4
55	2660	2408	7 EA 4	4	500	350	350	350	4
56	3040	2752	8 EA 4	4	500	500	500	500	4
57	4180	3784	11 EA 4	4	500	500	500	500	4
58	-	-	5 EA 4	-	-	-	-	-	6
59	-	-	5	-	-	-	-	-	6
60	-	-	10 EA 4	-	-	-	-	-	6

CONDUIT AND CONDUCTOR SCHEDULE NOTES

1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
5. SYMBOL SUBSCRIPTS:

"2N": INCLUDE TWO NEUTRAL CONDUCTORS, SIZED AS SCHEDULED FOR PHASED AND NEUTRAL CONDUCTORS.

"FG": FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE SAME SIZE AS THE PHASE CONDUCTORS.

"HH": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.

"IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND CONDUCTOR.

"SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.

6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

PROVIDE PERMANENT LABEL ON "MAIN SWITCHBOARD" STATING:

"MAXIMUM CALCULATED AIC - 4,995A, 2021-09- 03"

CALCULATIONS ARE BASED ON THE FOLLOWING ASSUMPTIONS:

- INFINITE PRIMARY
- UTILITY TRANSFORMNER SIZE 112kVA
- TRANSFORMER IMPEDANCE OF 2.7%
- SUPPLY FEEDER LENGTH OF 5'

NOTES:

1. CONTRACTOR SHALL SUBMIT VARIATIONS FROM ASSUMPTIONS PRIOR TO ORDERING EQUIPMENT.
2. THE SERVICE EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT LABEL INCLUDING: NOMINAL SYSTEM VOLTAGE, AVAILABLE FAULT CURRENT, AND CLEARING TIME ON MAIN OVERCURRENT PROTECTIVE DEVICE BASED ON THE ABAILABLE FAULT CURRENT.

GENERAL SHEET NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL LINE VOLTAGE AS PART OF THIS PROJECT. PROVIDE LINE VOLTAGE REQUIRED TO ALL SYSTEMS PROVIDED AS PART OF THIS PROJECT. COORDINATE WITH ALL OTHER DISCIPLINES AND DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE FOR ALL DEVICES, GEAR, CABLE, CONDUCTORS, TERMINATIONS, OVERCURRENT PROTECTION DEVICES, AND HEAD END EQUIPMENT AS PART OF THIS PROJECT.
3. PROVIDE ELECTRICAL CONNECTION TO MOTORIZED DOORS WITH ALL POWER AND CONTROL WIRING PER MANUFACTURES WRITTEN INSTRUCTIONS. COORDINATE OPERATION OF DOORS WITH SECURITY, FIRE, AND SMOKE CONTROL SEQUENCES OF OPERATION.
4. ELECTRICAL CONDUIT CONNECTIONS MADE TO EXPOSED JUNCTION BOXES ON UNITS SHOULD BE MADE ON THE BOTTOM OF THE BOX. INSTALLATION SHOULD COMPLY WITH LOCAL CODE REQUIREMENTS. THE INSTALLATION SHOULD BE MADE WATERTIGHT.
5. WHERE AN EXTERNAL ELECTRICAL JUNCTION BOX IS NOT USED, WATERTIGHT FITTINGS SHOULD BE USED AT THE PANEL JOINT. IF ELECTRICAL CONDUIT PASSES THROUGH A HOLE IN THE PANEL, THAT JOINT SHOULD BE MADE WATERTIGHT.
6. INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC "NATIONAL ELECTRICAL CODE."
7. PROVIDE GFCI, HEAVY-DUTY, WEATHER RESISTANT OUTLET WITHIN 25' OF ALL EQUIPMENT, FIELD VERIFY EXISTING CONDITIONS AND PROVIDE ADDITIONAL DEVICE(S) AND CIRCUITING AS REQUIRED.
8. ALL EXTERIOR OUTLETS SHALL BE CONTROLLED WITH RELAY TO TRUN POWER ON AND OFF FOR RESERVED FUNCTIONS.

SHEET KEYNOTES

1 PROVIDE CONDUIT AND FEEDERS TO FUTURE RESTROOM BUILDING. CONDUIT TO STUB UP AT RESTROOM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

PANEL LOAD SUMMARY

PANEL (BY LEVEL)	MAINS RATING	LOAD			
		CONNECTED		DIVERSIFIED	
		AMPS	KVA	AMPS	KVA
MAIN LEVEL					
1LN	400	249	59.7	251	60.1
1LS	225	105	25.2	105	25.2
LP2	225	0	0.0	0	0.0
MAIN DISCONNECT	200	0	0.0	0	0.0

1 ONE LINE DIAGRAM
SCALE: NTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S.
NIBLEY, UT 84321

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RIDGELINE PARK | PHASE 1
401 WEST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	APPROVED	DESCRIPTION

Stamp

CONSTRUCTION DOCUMENTS

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title

ONE-LINE DIAGRAM AND SCHEDULES

Drawing number

EP601

EXTERIOR LIGHTING FIXTURE SCHEDULE

ABBREVIATIONS

LUMINAIRE

ARHR - AIR RETURN AND HEAT REJECTION
DL - DAMP LOCATION
EQC - EARTHQUAKE CLIPS
F - FUSING
HLD - HINGED AND LATCHED DOOR
HS - HOUSE SIDE SHIELD
PS - PHOTOCELL SWITCH
QRS - QUARTZ RESTRIKE
ST - STATIC
WG - WIRE GUARD
WL - WET LOCATION

EMERGENCY

NE - NORMAL AND EMERGENCY CONNECTIONS
EB - EMERGENCY BATTERY PACK
ET - EMERGENCY TRANSFER DEVICE

BALLAST

IS - INSTANT START
RS - RAPID START
PS - PROGRAM START, PARALLEL LAMP OPERATION
PSMH - PULSE START METAL HALLIDE (CWA OR ELECTRONIC)
PPLF - PROVIDE POWER LINE FILTER
LVTM - LOW VOLTAGE TRANSFORMER (MAGNETIC)
LVTE - LOW VOLTAGE TRANSFORMER (ELECTRONIC)

DIMMING BALLAST

OE - 2 WIRE DIMMER
D3 - 3 WIRE DIMMER
D4 - 4 WIRE DIMMER
DD - DIGITAL DIMMER
SDP - STEP DIMMER BALLAST

FINISH

MW - MATTE WHITE
BL - BLACK
SL - SILVER
GD - GOLD
CL - CLEAR
PW - PAINTED WHITE
EA - EXTRUDED ALUMINUM
S - STEEL
GS - GALVANIZED STEEL
C - CAST
CBA - COLOR BY ARCHITECT
SCBA - STANDARD COLOR BY ARCHITECT
CCA - CUSTOM COLOR BY ARCHITECT
FS 209D - MEETS FEDERAL STANDARD 209D
TP - THERMALLY PROTECTED
FL - FLUSH
R - REGRESS
M - MITERED

LENS

#A - ACRYLIC #THICK
#OA - ACRYLIC #THICK (OPAL)
GC - GLASS (CLEAR)
GO - GLASS (OPAL)
GF - GLASS (FROSTED)
SGL - SOFT GLOW LENS
HPL - HIGH PERFORMANCE LENS
DO - DROP OPAL
CGL - CONVEX GLASS LENS
S - SATIN LENS

REFLECTOR AND DISTRIBUTION

I - TYPE I
II - TYPE II
III - TYPE III
IV - TYPE IV
V - TYPE V
VSQ - TYPE V SQUARE
SA - SPUN ALLUMINUM
SR - SEGMENTED REFLECTOR
BW# - NEMA BEAM WIDTH 1 THRU 7

CUTOFF CLASSIFICATION

FC - FULL CUTOFF
CO - CUTTOFF
SC - SEMI CUTOFF
NC - NONCUTOFF

MOUNTING

B - BASE
C - CEILING
F - FLANGE
G - GRID
P - PENDANT
PL - POLE
R - RECESSED
S - SURFACE
W - WALL

CONFIGURATION

BA - BANNER ARMS
BH - BULL HORN
DL - 2 "L" SHAPE
DS - 2 @ 180
PT - INLINE POST TOP
Q - QUAD
SH - SHEPHERDS HOOK
SL - SINGLE
T - 3 "T" SHAPE

POLE

RS - ROUND STRAIGHT
RT - ROUND TAPERED
SS - SQUARE STRAIGHT
ST - SQUARE TAPERED

NOTES

1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER.
2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED. CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.

1. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
2. COMPLY WITH THE "EXTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
3. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS.
4. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED.

			LUMINAIRE								LAMP			BALLAST		FINISH			DIFFUSER				REFLECTOR			MOUNTING						MANUFACTURER (CATALOG SERIES)			
			BUG RATING			SIZE (NOMINAL)																													
ID	IMAGE	TYPE	BACK	UP	GLARE	LENGTH	WIDTH	DEPTH	DIAMETER / APERTURE	OPTIONS	COLOR	TYPE	LUMENAIRE LUMENS	INPUT VOLTS	ANSI WATTS	HOUSING	TRIM	OTHER	TYPE	FINISH	CONFIGURATION	OPTIONS	DISTRIBUTION TYPE	FINISH	EFFICIENCY	TYPE	CONFIGURATION	POLE BASE HEIGHT	POLE HEIGHT	WIND RATING	OPTIONS	OPTION 1	OPTION_2	OPTION 3	ALLOWANCE
(OB1)		BOLLARD; FULL CUTOFF	1	0	1	-	-	42"			4000K	0-10V LED	1040	120	14	SCBA	SCBA	SCBA					V		0			0' - 0"	0' - 0"			KIM LIGHTING (PA7S)	LUMASCAPE (ARONDEL-6)	FOCUS (PL-23)	
(W4)		SURFACE MOUNTED CANOPY LIGHT; LED				14"	14"	4"		-	5000K	LED	4500	120	63	SCBA	SCBA	SCBA													PLTSOLUTIONS (LED CANOPY)	-	-	
(Z54)		DECORATIVE LED POLE LIGHT, CUTOFF SINGLE HEAD, FORWARD THROW OPTICS, 17' POLE						26"	14"		4000K	LED	12526	120	110	SCBA	SCBA	SCBA					IV		0			3' - 0"	17' - 0"			AAL (UCL2)	-	-	
(Z55)		MODERN STYLE, LED POLE LIGHT, CUTOFF SINGLE HEAD, FORWARD THROW DISTRIBUTION, 17' POLE; HOUSE-SIDE SHIELD						26"	14"		4000K	LED	15000	120	120	SCBA	SCBA	SCBA					FTW		0			3' - 0"	17' - 0"			AAL (UCL2)	-	-	
AP1		6" ROUND STEEL POLE; 12' TALL WITH HAND HOLE COVER; PROVIDE PUSH BUTTON FOR LGIHTING CONTROLS (B.O.D. 4EVR PUSH-BUTTON BY TRAFFIC SAFETY CORP); TENON MOUNT FOR STROBE LIGHT PROVIDED BY MUSCO; FINISH BLACK									BLACK	STROBE	0	0	0										0			0' - 6"	12' - 0"			MUSCO	-	-	
P1		MUSCO LIGHT POLE (BY OTHERS)				14"	13"	5"	-				0	240	0										0	P, ST	BH, PT	0' - 0"	25' - 0"	13		MUSCO	-	-	

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RIDGELINE PARK | PHASE 1
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CONSTRUCTION DOCUMENTS

REVISIONS

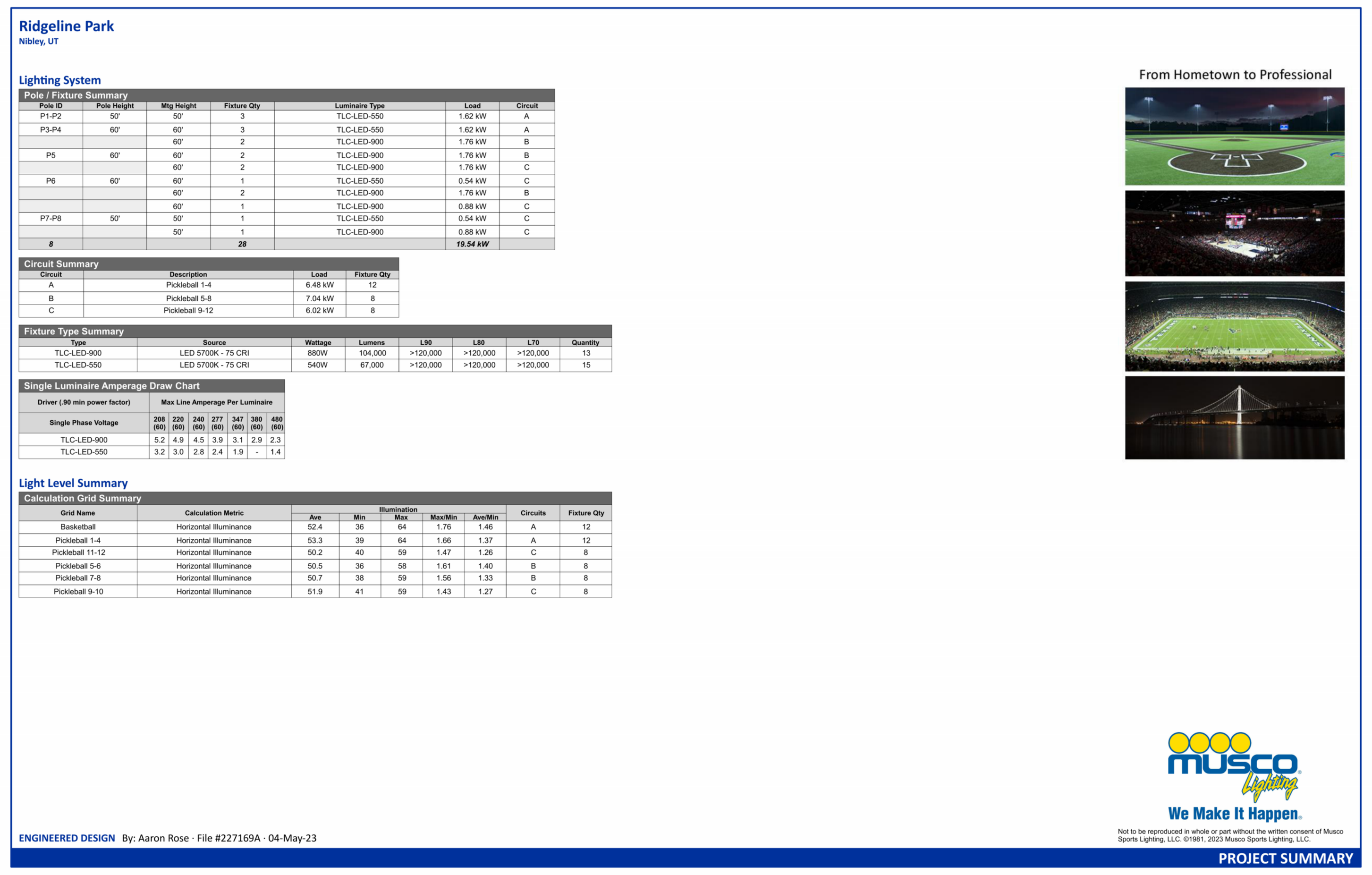
NO	APPROVAL	DESCRIPTION

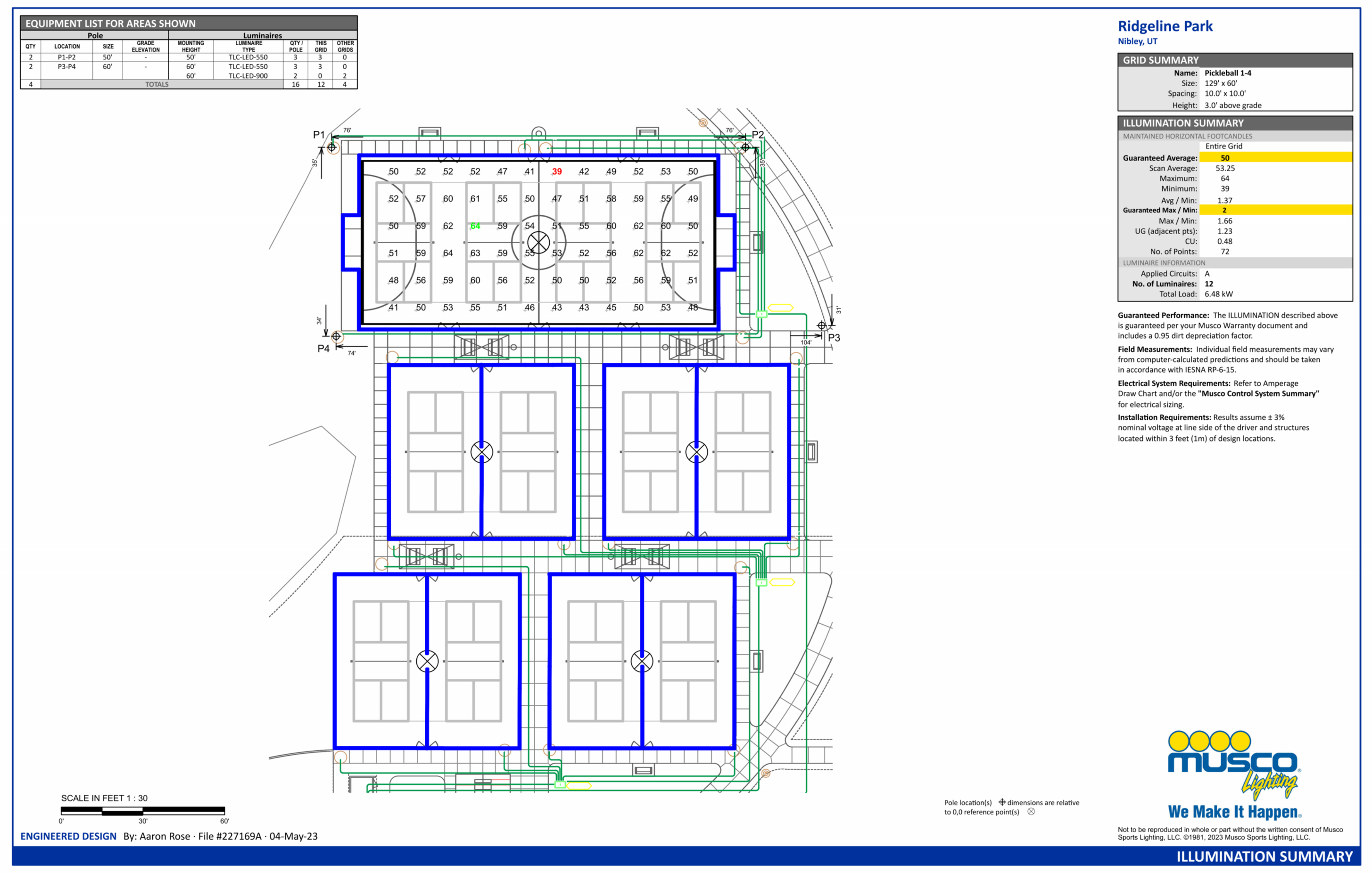
Stamp

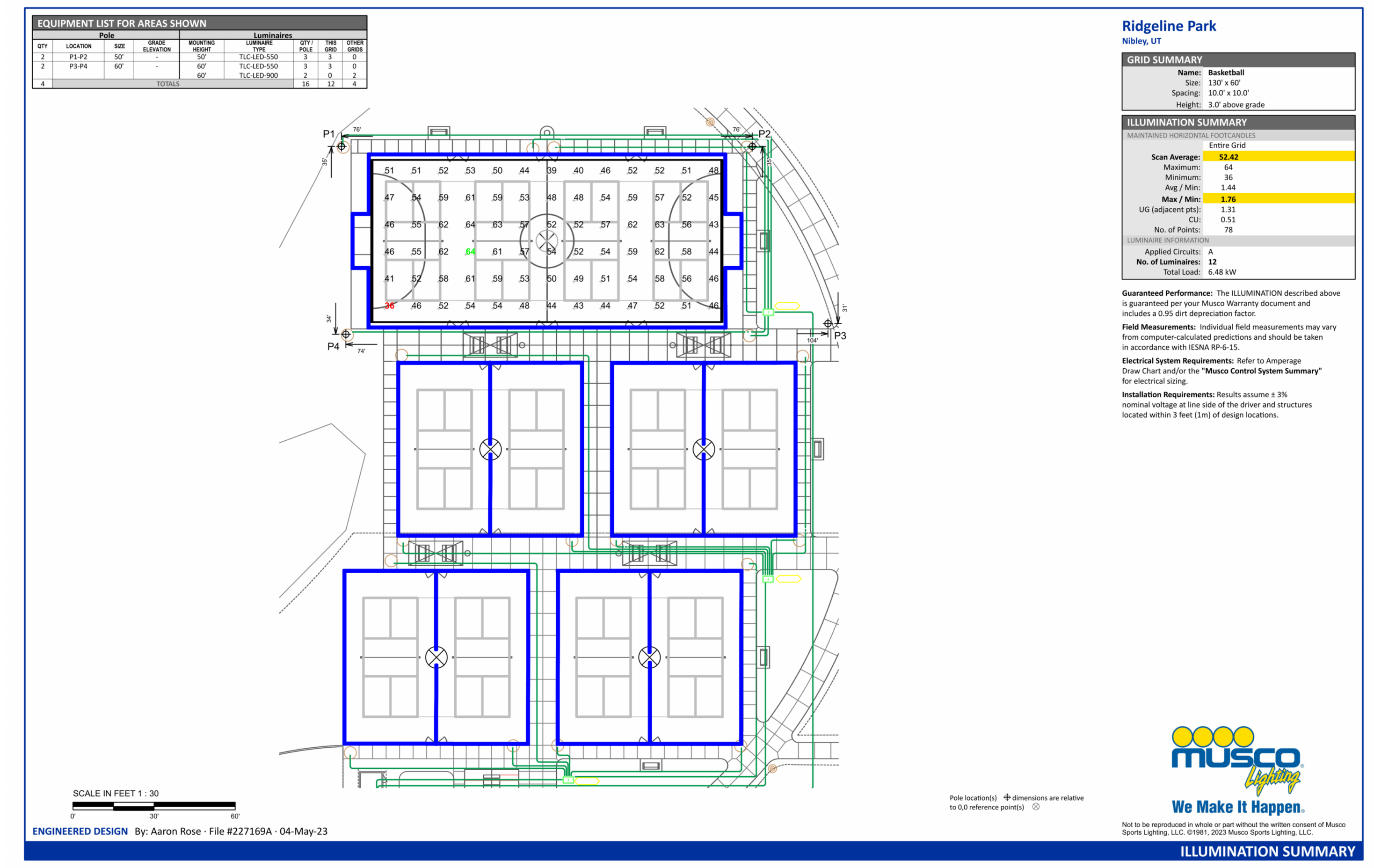
Designed By: JJN
Drawn By: JJN
Date: 12/06/2023
Checked By: SCL
Project No: 220663

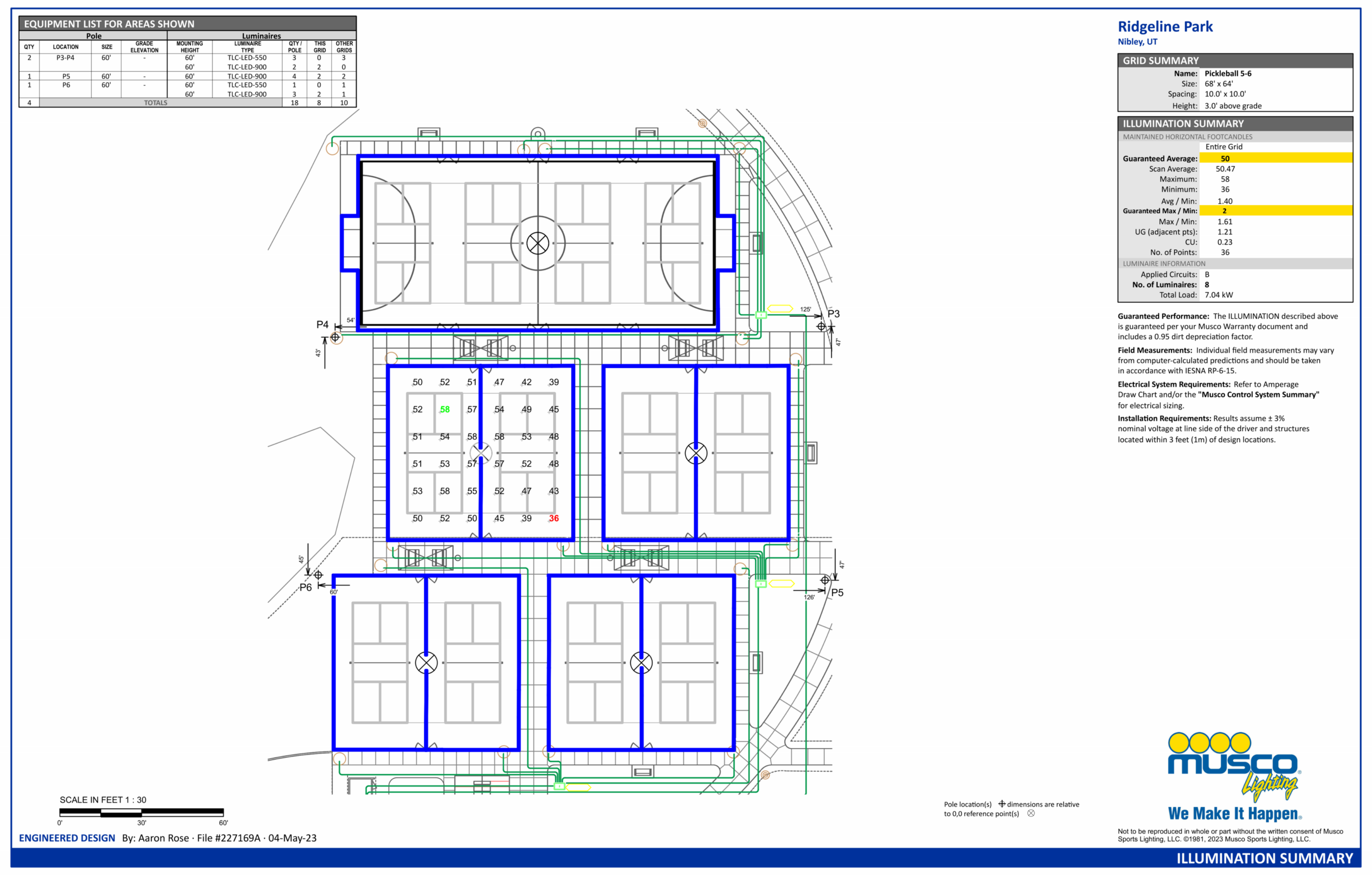
Drawing Title
EXTERIOR LIGHTING FIXTURE SCHEDULE

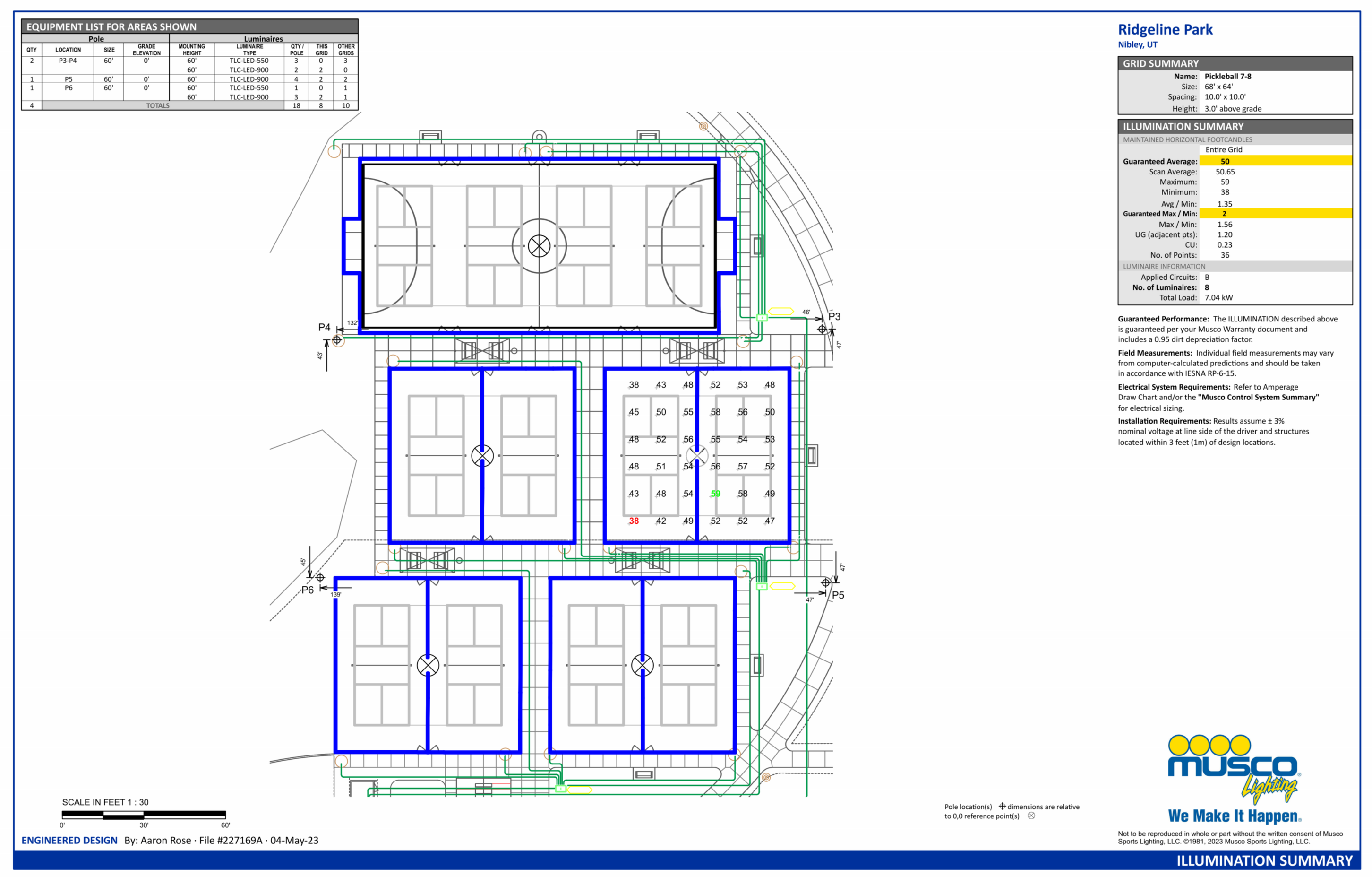
Drawing number
EL601

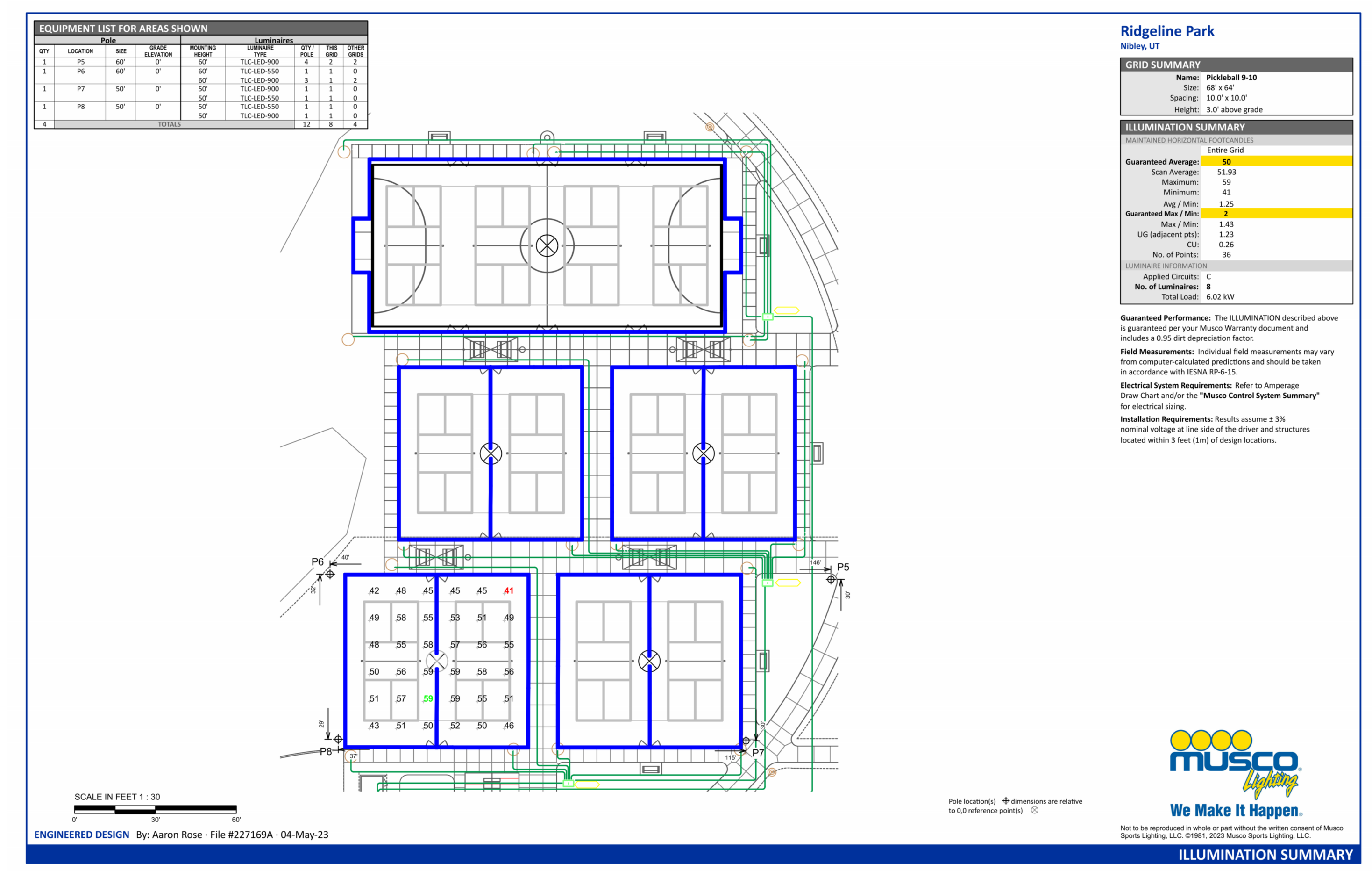


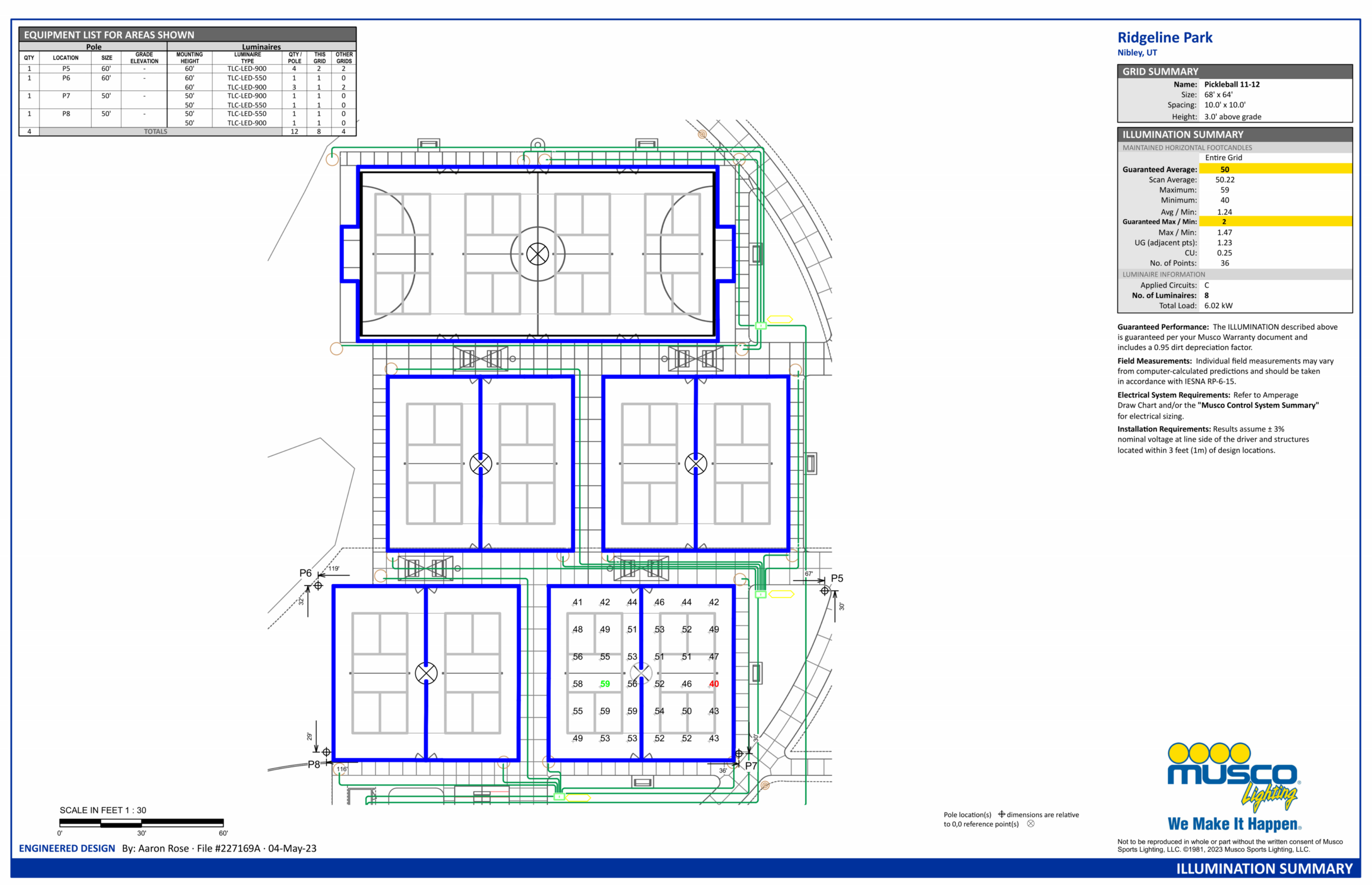












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35 years
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REVISIONS

N0.	yy/mm/day	DESCRIPTION

Stamp

CONSTRUCTION DOCUMENTS

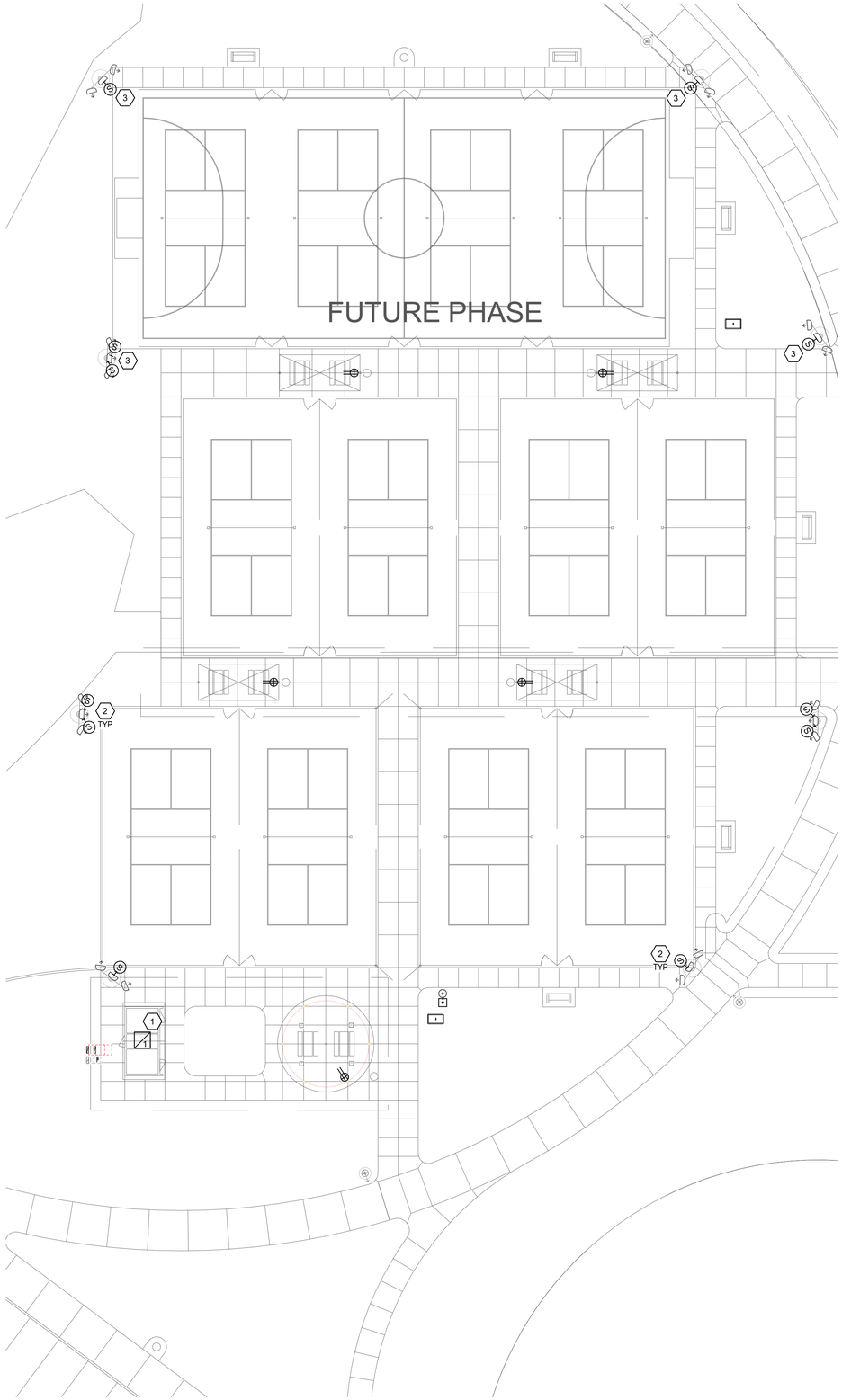
Designed By: SCL
Drawn By: CDH
Date: 12/06/2023
Checked By: SCL
Project No: 220663

Drawing Title

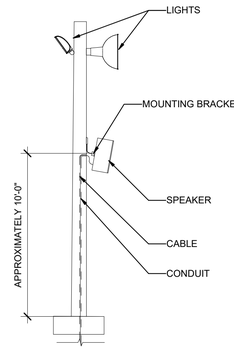
MUSCO LIGHTING SHEETS

Drawing number

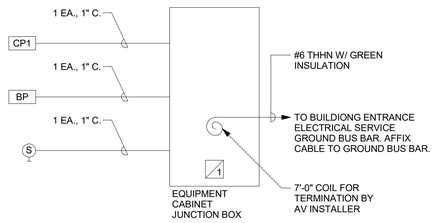
EL602



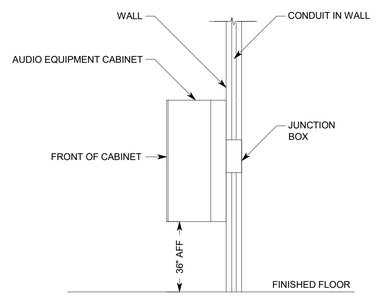
1 PICKLEBALL COURT ENLARGED AUDIO PLAN
SCALE: 1/16" = 1'-0"



4 AUDIO SPEAKER POLE MOUNTING DETAIL
SCALE: NTS



3 CONDUIT RISER DIAGRAM
SCALE: NTS



2 EQUIPMENT CABINET MOUNTING DETAIL
SCALE: NTS

AUDIO-VIDEO ROUGH-IN SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING	SPECIAL INSTRUCTIONS
CP1	DEEP 2-GANG JUNCTION BOX	WALL AT ELECTRICAL OUTLET HEIGHT, OR AS NOTED ON PLANS	
BP	BUTTON CONTROL PANEL, 4-11/16" JUNCTION BOX W/ 2-GANG MUD RING	WALL AT ELECTRICAL SWITCH HEIGHT	
S	POLE MOUNTED SPEAKER	LIGHT POLE AT APPROXIMATELY 10'-0" ABOVE GROUND	
1	EQUIPMENT RACK, JUNCTION BOX, CHIEF PAC 526FCW	WALL AT APPROXIMATELY 48" AFF	INSTALL SO THAT CABINET MAY OPEN FULLY. COORDINATE WITH AUDIO INSTALLER.
	CONDUIT, 1" MINIMUM	CONCEALED BEHIND FINISHED SURFACES, UNLESS OTHERWISE NOTED	REFER TO RISER DIAGRAMS FOR EXACT SIZES & QUANTITIES.

AV ROUGH-IN NOTES

1 INSTALL ALL CONDUIT IN A CONCEALED FASHION. SURFACE MOUNTED CONDUIT WILL NOT BE ACCEPTED. CONDUITS AND BOXES ABOVE CEILING HEIGHT MAY BE INSTALLED EXPOSED AND PAINTED TO MATCH SURROUNDING EQUIPMENT.

2 MAINTAIN MAXIMUM SEPARATION BETWEEN AV SYSTEM CONDUIT AND ALL POWER CONDUIT. MINIMUM SEPARATION REQUIREMENTS ARE 24".

3 INSTALL NYLON PULL STRINGS IN ALL AV SYSTEM CONDUIT.

4 INSTALL ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED RIGGING PROCATICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.

5 IF THE BOXES, ENCLOSURES, AND CABINETS SPECIFIED ARE NOT PROVIDED FROM THE MANUFACTURER WITH THE REQUIRED KNOCK OUTS FOR THE SPECIFIED CONDUIT, FILED CUT ALL REQUIRED KNOCK OUTS TO TERMINATE THE QUANTITY AND SIZES OF THE SPECIFIED CONDUITS.

6 ALL ROUGH-IN SHALL BE IN COMPLIANCE WITH ANSI/TIA/EIA 569-B WHICH INCLUDES, BUT IS NOT LIMITED TO, ALL CONDUITS HAVING NO MORE THAN TWO 90 DEGREE BENDS.

7 ALL CONDUIT FOR AV ROUGH-IN SHALL BE EMT.

8 ALL CONNECTION PANELS SHALL BE WITHIN 12" OF POWER AND DATA OUTLETS. NOTIFY ENGINEER IF DISCREPANCY IS FOUND.

9 ALL AV CONDUITS SHALL BE INSTALLED USING SHORTEST RUNS POSSIBLE. THERE SHOULD BE NO UNNECESSARY BENDS IN CONDUITS RUNS.

10 CONDUITS AND JUNCTION BOXES SHOWN ON RISER DIAGRAMS ARE TYPICAL FOR EACH DEVICE ON SITE.

11 COVER ALL JUNCTION BOXES WITH A BLANK NYLON COVER PLATE.

SHEET KEYNOTES

1 AUDIO EQUIPOMENT RACK TO BE INSTALLED INSIDE THE CHASE OF NEW BUILDING BY OTHERS. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

2 INSTALL SPEAKER ON LIGHT POLE AT APPROXIMATELY 10'-0" ELEVATION. AIM SPEAKER FOR BEST COVERAGE OF COURT.

3 SPEAKERS TO BE INSTALLED ON FUTURE LIGHT POLE AT APPROXIMATELY 10'-0" ELEVATION. AIM SPEAKER FOR BEST COVERAGE OF COURT.

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REVISIONS

NO.	APPROVAL	DESCRIPTION

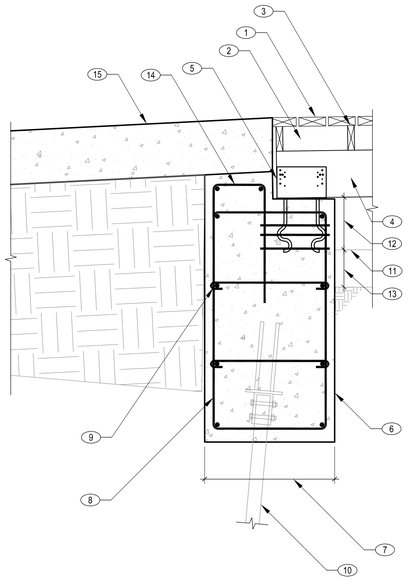
Stamp

CONSTRUCTION DOCUMENTS

Designed By:	JJN
Drawn By:	JJN
Date:	12/06/2023
Checked By:	SCL
Project No:	220663

Drawing Title
AUDIO SITE PLAN AND DETAILS

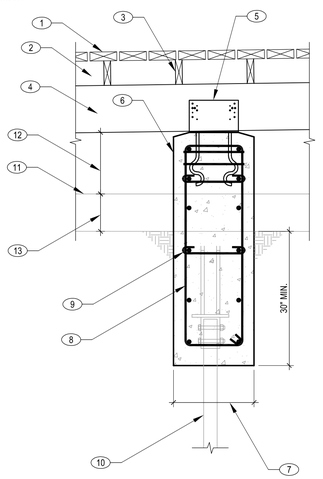
Drawing number
EJ101



KEYNOTES:

1. 2x6 TREX DECKING. ATTACH PER MANUFACTURES RECOMMENDATIONS
2. 2x SOLID BLOCKING OVER GLB. PLACE FLUSH ON EACH SIDE
3. 2x6 DF#1 OR BETTER @ 16"O.C.
4. 5-1/8"x10-1/2" 24F-V8 CONT. GLU-LAM BEAM
5. SIMPSON SSCCQM550
6. CONC. PIER: PROVIDE #3 CLOSED TIES @ 3"O.C. UNDER SSCCQM5.50
7. 2'-6"
8. #4 CLOSED TIES @ 16"O.C.
9. #5 @ 12"O.C. HORZ. EACH FACE WITH HAIR PINS @ 16"O.C.
10. 3"Ø GALVANIZED SHAFT HELICAL PIER INSTALLED @ 5° BATTER AS SHOWN ON PLAN VIEW. 20' MIN. EMBEDMENT. 16KIP T&C LOAD. (SAFETY FACTOR NOT INCLUDED)
11. WATER LEVEL, SEE ARCH. DRAWINGS
12. 6" MIN. SEE ARCH. DRAWINGS
13. WATER DEPTH, SEE ARCH. DRAWINGS
14. #4 HAIR PINS @ 16"O.C. WITH 24" LEG
15. CONC. APPROACH APRON, SEE ARCH. DRAWINGS

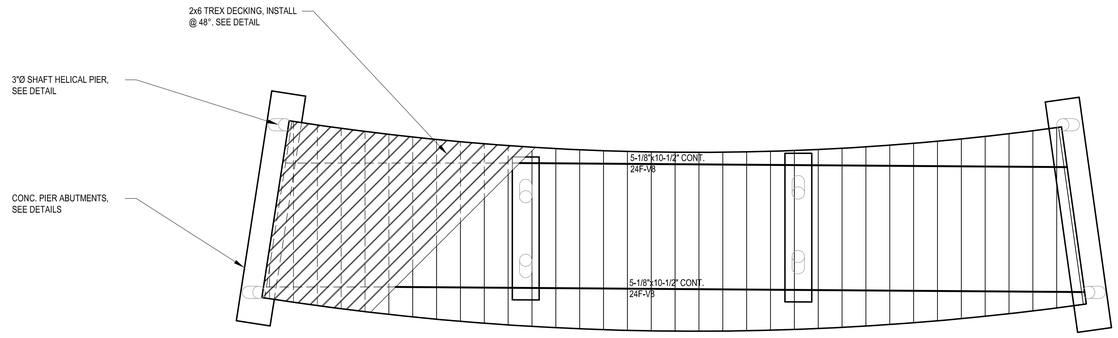
1 S1.0 DETAIL
NO SCALE



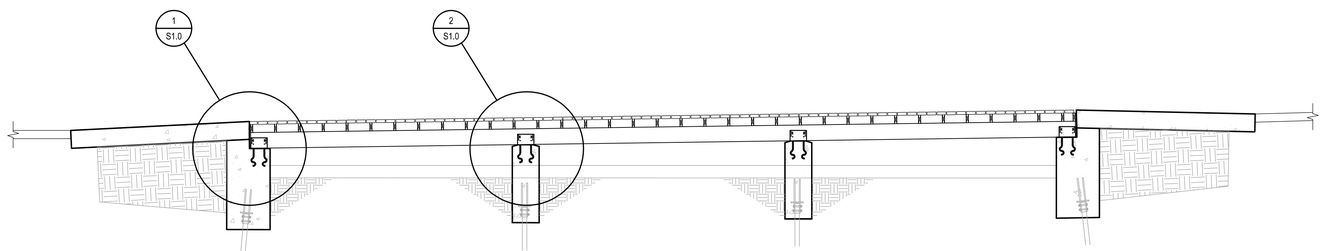
KEYNOTES:

1. 2x6 TREX DECKING. ATTACH PER MANUFACTURES RECOMMENDATIONS
2. 2x SOLID BLOCKING OVER GLB. PLACE FLUSH OF EACH SIDE
3. 2x6 DF#1 OR BETTER @ 16"O.C.
4. 5-1/8"x10-1/2" 24F-V8 CONT. GLU-LAM BEAM
5. SIMPSON SSCCQM550
6. CONC. PIER: PROVIDE #3 CLOSED TIES @ 3"O.C. AT SSCCQM5.50
7. 18"±
8. #4 CLOSED TIES @ 16"O.C.
9. #5 @ 12"O.C. HORZ. EACH FACE WITH HAIR PINS @ 16"O.C.
10. 3"Ø GALVANIZED SHAFT HELICAL PIER INSTALLED @ 5° BATTER AS SHOWN ON PLAN VIEW. 20' MIN. EMBEDMENT. 16KIP T&C LOAD. (SAFETY FACTOR NOT INCLUDED)
11. WATER LEVEL. SEE ARCH.
12. 6" MIN. SEE ARCH. DRAWINGS
13. WATER DEPTH, SEE ARCH. DRAWINGS

2 S1.0 DETAIL
NO SCALE



PLAN VIEW SCALE: 1/4"=1'-0"



SECTION SCALE: 1/4"=1'-0"

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NIBLEY

PROFESSIONAL STRUCTURAL ENGINEER
9/29/23
189600
CLIFF R. COLE
STATE OF UTAH

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

NO.	BY/APPVD	DESCRIPTION

Stamp

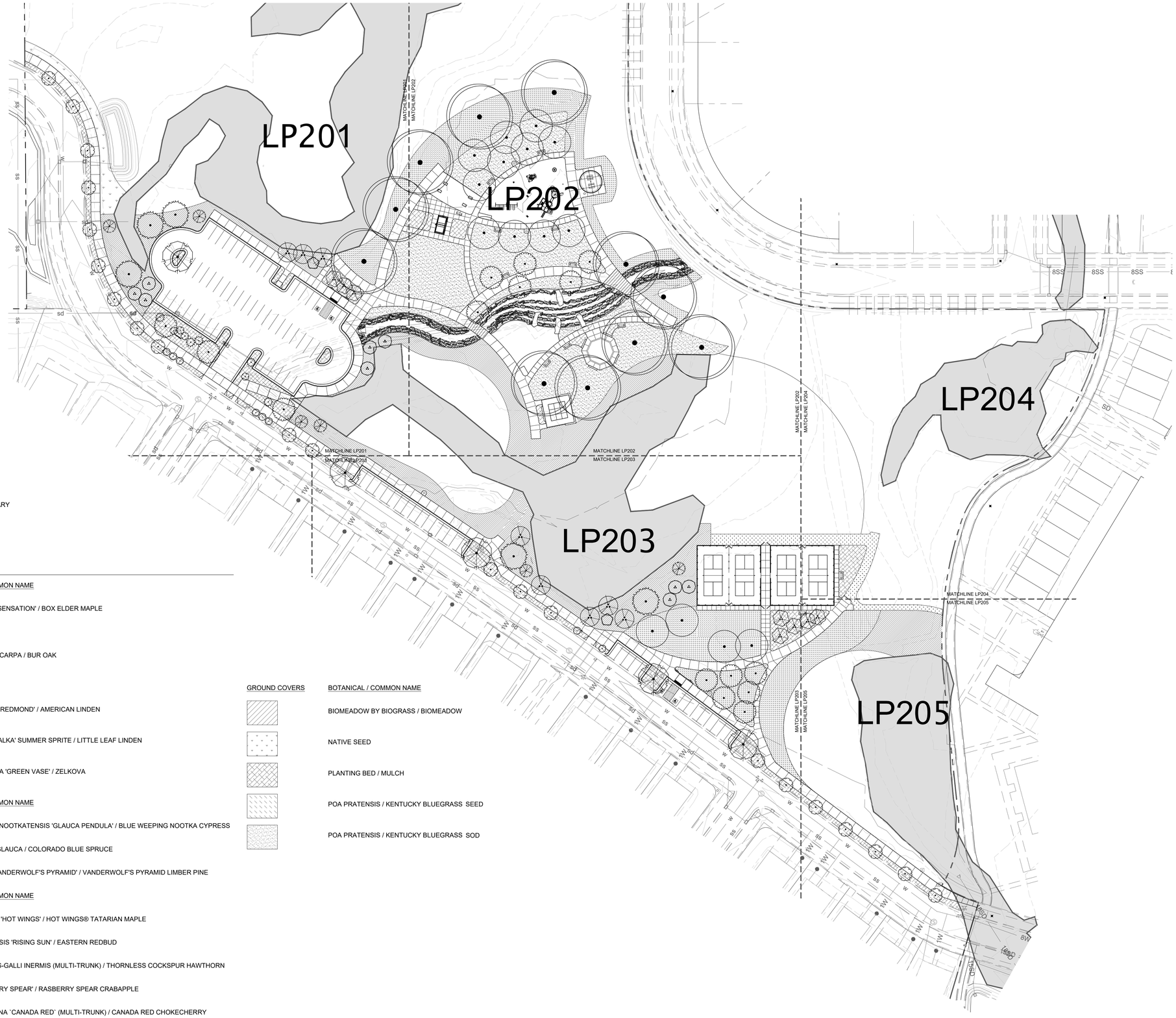
Designed By:	RD
Drawn By:	WCA
Date:	09/25/2023
Checked By:	CC
Project No:	23188

Drawing Title

PLAN AND DETAILS

Drawing number

S1.0



LEGEND

PROPERTY BOUNDARY

WETLAND

PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME
	ACER NEGUNDO 'SENSATION' / BOX ELDER MAPLE
	QUERCUS MACROCARPA / BUR OAK
	TILIA AMERICANA 'REDMOND' / AMERICAN LINDEN
	TILIA CORDATA 'HALKA' SUMMER SPRITE / LITTLE LEAF LINDEN
	ZELKOVA SERRATA 'GREEN VASE' / ZELKOVA

EVERGREEN TREES	BOTANICAL / COMMON NAME
	CHAMAECYPARIS NOOTKATENSIS 'GLAUCA PENDULA' / BLUE WEEPING NOOTKA CYPRESS
	PICEA PUNGENS GLAUCA / COLORADO BLUE SPRUCE
	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID LIMBER PINE

ORNAMENTAL TREES	BOTANICAL / COMMON NAME
	ACER TATARICUM 'HOT WINGS' / HOT WINGS® TATARIAN MAPLE MULTI-TRUNK
	CERCIS CANADENSIS 'RISING SUN' / EASTERN REDBUD
	CRATAEGUS CRUS-GALLI INERMIS (MULTI-TRUNK) / THORNLESS COCKSPUR HAWTHORN
	MALUS X 'RASBERRY SPEAR' / RASBERRY SPEAR CRABAPPLE
	PRUNUS VIRGINIANA `CANADA RED` (MULTI-TRUNK) / CANADA RED CHOKECHERRY

GROUND COVERS	BOTANICAL / COMMON NAME
	BIOMEADOW BY BIOGRASS / BIOMEADOW
	NATIVE SEED
	PLANTING BED / MULCH
	POA PRATENSIS / KENTUCKY BLUEGRASS SEED
	POA PRATENSIS / KENTUCKY BLUEGRASS SOD

Scale: 1" = 50'-0"

0 25 50 100 150

CONSTRUCTION DOCUMENTS

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CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	(yy/mm/dd)	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect

12/06/2023

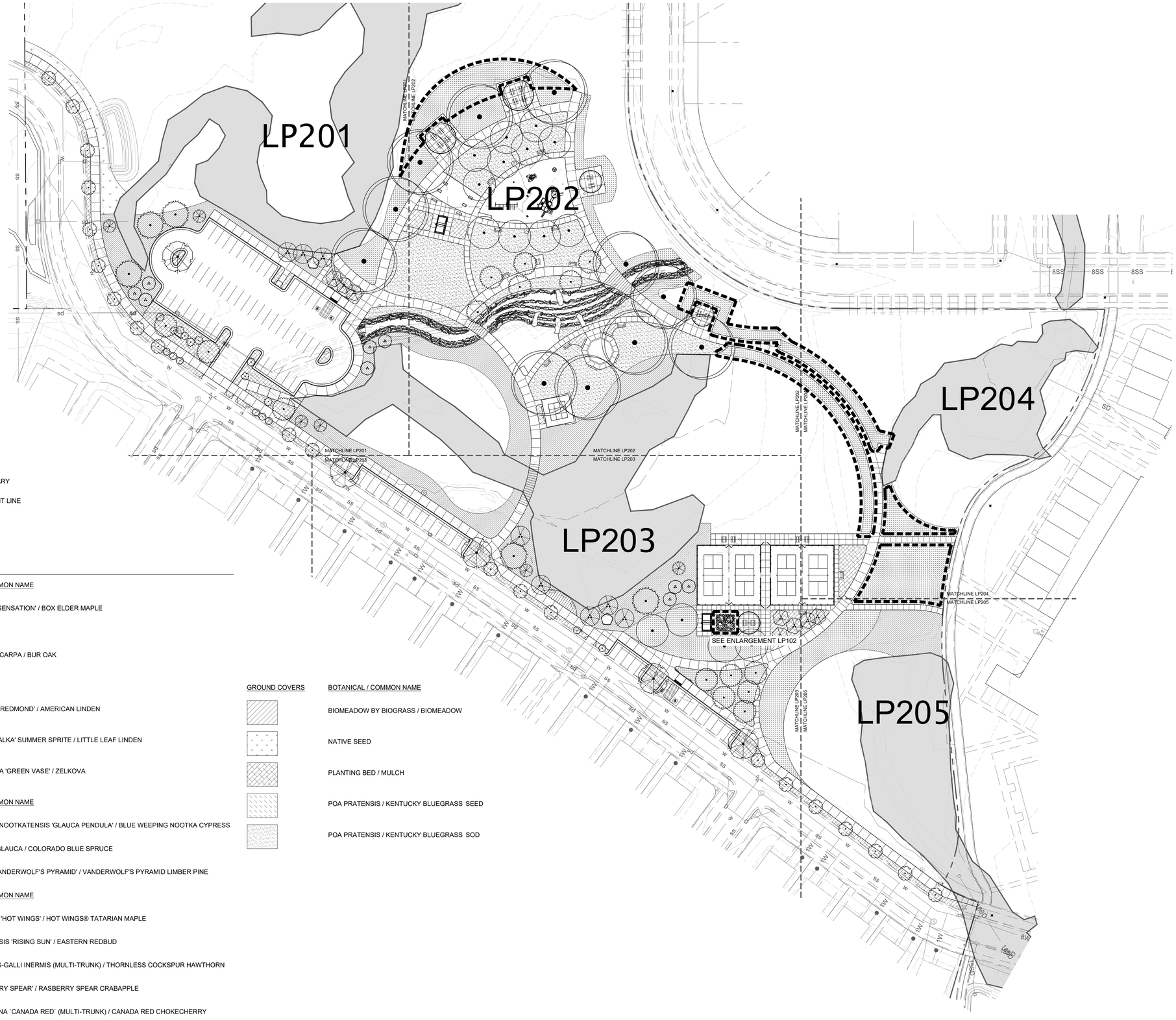
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

OVERALL LANDSCAPE PLAN - BASE BID CONDITION

Drawing number

LP100



LEGEND

- PROPERTY BOUNDARY
- BID ALTERNATE LIMIT LINE
- WETLAND

PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME
	ACER NEGUNDO 'SENSATION' / BOX ELDER MAPLE
	QUERCUS MACROCARPA / BUR OAK
	TILIA AMERICANA 'REDMOND' / AMERICAN LINDEN
	TILIA CORDATA 'HALKA' SUMMER SPRITE / LITTLE LEAF LINDEN
	ZELKOVA SERRATA 'GREEN VASE' / ZELKOVA

EVERGREEN TREES	BOTANICAL / COMMON NAME
	CHAMAECYPARIS NOOTKATENSIS 'GLAUCA PENDULA' / BLUE WEEPING NOOTKA CYPRESS
	PICEA PUNGENS GLAUCA / COLORADO BLUE SPRUCE
	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID LIMBER PINE

ORNAMENTAL TREES	BOTANICAL / COMMON NAME
	ACER TATARICUM 'HOT WINGS' / HOT WINGS® TATARIAN MAPLE MULTI-TRUNK
	CERCIS CANADENSIS 'RISING SUN' / EASTERN REDBUD
	CRATAEGUS CRUS-GALLI INERMIS (MULTI-TRUNK) / THORNLESS COCKSPUR HAWTHORN
	MALUS X 'RASBERRY SPEAR' / RASBERRY SPEAR CRABAPPLE
	PRUNUS VIRGINIANA `CANADA RED` (MULTI-TRUNK) / CANADA RED CHOKECHERRY

GROUND COVERS	BOTANICAL / COMMON NAME
	BIOMEADOW BY BIOGRASS / BIOMEADOW
	NATIVE SEED
	PLANTING BED / MULCH
	POA PRATENSIS / KENTUCKY BLUEGRASS SEED
	POA PRATENSIS / KENTUCKY BLUEGRASS SOD

Scale: 1" = 50'-0"

0 25 50 100 150

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S,
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	yy/mm/dd	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

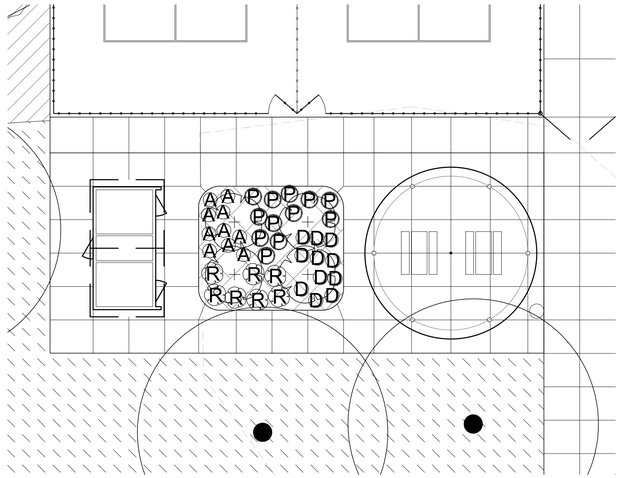
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

OVERALL LANDSCAPE PLAN - BID ALTERNATE CONDITION

Drawing number

LP101



1 PICKLEBALL PLANTING BED BID-ALT ENLARGEMENT

SCALE: 1"=10'-0"

PLANT SCHEDULE BID ALTERNATE

ORNAMENTAL TREES	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	CERCIS CANADENSIS 'RISING SUN' / EASTERN REDBUD	B&B	1 1/2" CAL	4
SHRUBS	**BOTANICAL / COMMON NAME**	**CONT**		
R	ROSA 'MEIGALIPO' RED DRIFT / RED DRIFT ROSE	2 GAL		7
ANNUALS/PERENNIALS	**BOTANICAL / COMMON NAME**	**CONT**		
A	ASTER X FRIKARTII `MONCH` / MONCH ASTER	1 GAL		10
D	RUDBECKIA FULGIDA SULLIVANTII `GOLDSTURM` / BLACK-EYED SUSAN	1 GAL		11
ORNAMENTAL GRASSES	**BOTANICAL / COMMON NAME**	**CONT**		
P	PENNISETUM ALOPECUROIDES `HAMELN` / HAMELN DWARF FOUNTAIN GRASS	1 GAL		12

GROUND COVERS	BOTANICAL / COMMON NAME	CONT	SPACING	
	BIOMEADOW BY BIOGRASS / BIOMEADOW	SEED		2,118 SF
	PLANTING BED / MULCH	BED		343 SF
	POA PRATENSIS / KENTUCKY BLUEGRASS	SEED		13,296 SF

Scale: 1" = 50'-0"

0 25 50 100 150

n

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design

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NIBLEY

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REVISIONS

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Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect

12/06/2023

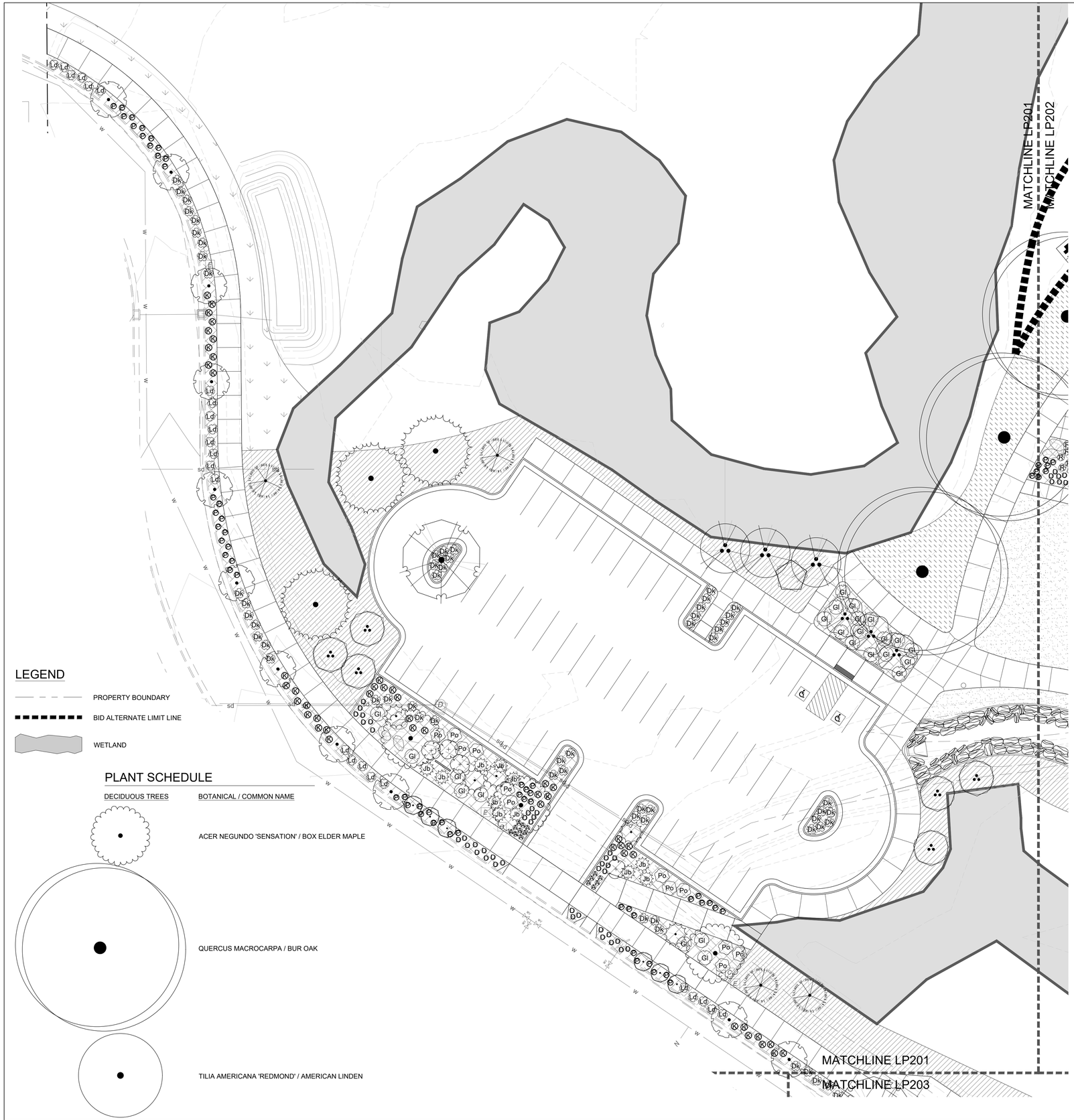
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

LANDSCAPE PLAN - BID ALTERNATE CONDITION ENLARGEMENT

Drawing number

LP102



LEGEND

- PROPERTY BOUNDARY
- BID ALTERNATE LIMIT LINE
- WETLAND

PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME
	ACER NEGUNDO 'SENSATION' / BOX ELDER MAPLE
	QUERCUS MACROCARPA / BUR OAK
	TILIA AMERICANA 'REDMOND' / AMERICAN LINDEN
	TILIA CORDATA 'HALKA' SUMMER SPRITE / LITTLE LEAF LINDEN
	ZELKOVA SERRATA 'GREEN VASE' / ZELKOVA

EVERGREEN TREES	BOTANICAL / COMMON NAME
	CHAMAECYPARIS NOOTKATENSIS 'GLAUCA PENDULA' / BLUE WEEPING NOOTKA CYPRESS
	PICEA PUNGENS GLAUCA / COLORADO BLUE SPRUCE
	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID LIMBER PINE

ORNAMENTAL TREES	BOTANICAL / COMMON NAME
	ACER TATARICUM 'HOT WINGS' / HOT WINGS® TATARIAN MAPLE MULTI-TRUNK
	CERCIS CANADENSIS 'RISING SUN' / EASTERN REDBUD
	CRATAEGUS CRUS-GALLI INERMIS (MULTI-TRUNK) / THORNLESS COCKSPUR HAWTHORN
	MALUS X 'RASBERRY SPEAR' / RASBERRY SPEAR CRABAPPLE
	PRUNUS VIRGINIANA `CANADA RED` (MULTI-TRUNK) / CANADA RED CHOKECHERRY

SHRUBS	BOTANICAL / COMMON NAME
Dk	CARYOPTERIS X CLANDONENSIS `DARK KNIGHT` / BLUE MIST SHRUB
Jb	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP JUNIPER
Po	PHYSOCARPUS OPULIFOLIUS `DIABLO` / DIABLO NINEBARK
Ld	PHYSOCARPUS OPULIFOLIUS `LITTLE DEVIL` TM / DWARF NINEBARK
	PINUS MUGO 'SLOWMOUND' / SLOWMOUND MUGO PINE
Gl	RHUS AROMATICA `GRO-LOW` / GRO-LOW FRAGRANT SUMAC
	ROSA 'MEIGALIPO' RED DRIFT / RED DRIFT ROSE

ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME
A	ASTER X FRIKARTII `MONCH` / MONCH ASTER
D	RUDBECKIA FULGIDA SULLIVANTII `GOLDSTURM` / BLACK-EYED SUSAN

ORNAMENTAL GRASSES	BOTANICAL / COMMON NAME
K	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS
P	PENNISETUM ALOPECUROIDES `HAMELN` / HAMELN DWARF FOUNTAIN GRASS

GROUND COVERS	BOTANICAL / COMMON NAME
	BIOMEADOW BY BIOGRASS / BIOMEADOW
	NATIVE SEED
	PLANTING BED / MULCH
	POA PRATENSIS / KENTUCKY BLUEGRASS SEED
	POA PRATENSIS / KENTUCKY BLUEGRASS SOD

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
1	BLONDE "BROWNS CANYON" BOULDERS 3` - 5` DIAMETER; 1/3 @ 3` DIAMETER, 1/3 @ 4` DIAMETER AND 1/3 @ 5` DIAMETER	15

Scale: 1" = 20'-0"

0 10 20 40 60

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S.
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	yy/mm/dd	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect
12/06/2023

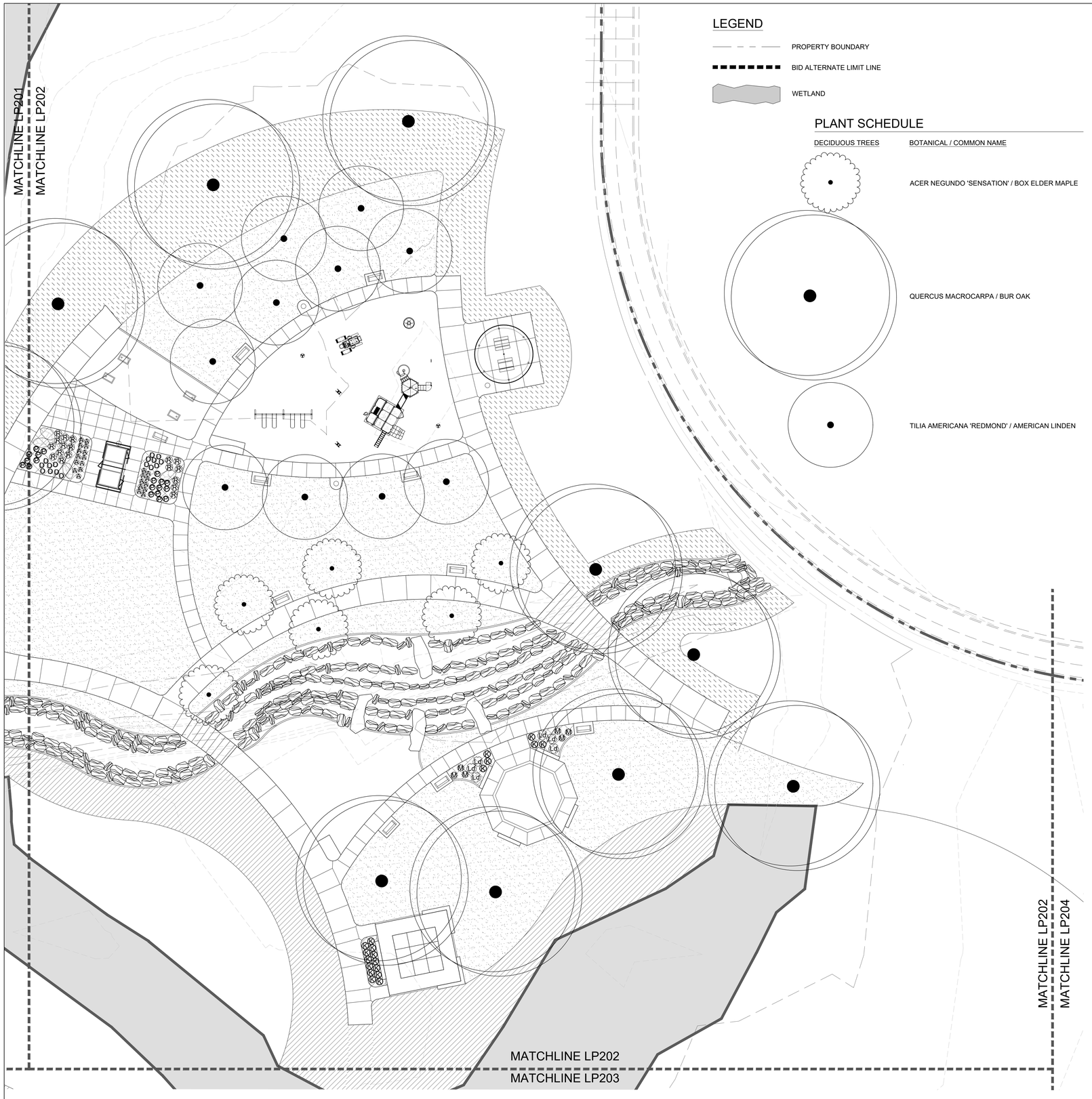
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

LANDSCAPE PLAN

Drawing number

LP201



LEGEND

- PROPERTY BOUNDARY
- BID ALTERNATE LIMIT LINE
- WETLAND

PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME
	ACER NEGUNDO 'SENSATION' / BOX ELDER MAPLE
	QUERCUS MACROCARPA / BUR OAK
	TILIA AMERICANA 'REDMOND' / AMERICAN LINDEN
	TILIA CORDATA 'HALKA' SUMMER SPRITE / LITTLE LEAF LINDEN
	ZELKOVA SERRATA 'GREEN VASE' / ZELKOVA

EVERGREEN TREES	BOTANICAL / COMMON NAME
	CHAMAECYPARIS NOOTKATENSIS 'GLAUCA PENDULA' / BLUE WEEPING NOOTKA CYPRESS
	PICEA PUNGENS GLAUCA / COLORADO BLUE SPRUCE
	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID LIMBER PINE

ORNAMENTAL TREES	BOTANICAL / COMMON NAME
	ACER TATARICUM 'HOT WINGS' / HOT WINGS® TATARIAN MAPLE MULTI-TRUNK
	CERCIS CANADENSIS 'RISING SUN' / EASTERN REDBUD
	CRATAEGUS CRUS-GALLI INERMIS (MULTI-TRUNK) / THORNLESS COCKSPUR HAWTHORN
	MALUS X 'RASBERRY SPEAR' / RASBERRY SPEAR CRABAPPLE
	PRUNUS VIRGINIANA `CANADA RED` (MULTI-TRUNK) / CANADA RED CHOKECHERRY

SHRUBS	BOTANICAL / COMMON NAME
Dk	CARYOPTERIS X CLANDONENSIS `DARK KNIGHT` / BLUE MIST SHRUB
Jb	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP JUNIPER
Po	PHYSOCARPUS OPULIFOLIUS `DIABLO` / DIABLO NINEBARK
Ld	PHYSOCARPUS OPULIFOLIUS `LITTLE DEVIL` TM / DWARF NINEBARK
M	PINUS MUGO 'SLOWMOUND' / SLOWMOUND MUGO PINE
Gl	RHUS AROMATICA `GRO-LOW` / GRO-LOW FRAGRANT SUMAC
R	ROSA 'MEIGALIPO' RED DRIFT / RED DRIFT ROSE

ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME
A	ASTER X FRIKARTII `MONCH` / MONCH ASTER
D	RUDBECKIA FULGIDA SULLIVANTII `GOLDSTURM` / BLACK-EYED SUSAN

ORNAMENTAL GRASSES	BOTANICAL / COMMON NAME
K	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS
P	PENNISETUM ALOPECUROIDES `HAMELN` / HAMELN DWARF FOUNTAIN GRASS

GROUND COVERS	BOTANICAL / COMMON NAME
	BIOMEADOW BY BIOGRASS / BIOMEADOW
	NATIVE SEED
	PLANTING BED / MULCH
	POA PRATENSIS / KENTUCKY BLUEGRASS SEED
	POA PRATENSIS / KENTUCKY BLUEGRASS SOD

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
	BLONDE "BROWNS CANYON" BOULDERS 3` - 5` DIAMETER; 1/3 @ 3` DIAMETER, 1/3 @ 4` DIAMETER AND 1/3 @ 5` DIAMETER	15

Scale: 1" = 20'-0"

0 10 20 40 60

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
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CONTACT:
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PH: 435.757.9848

RIDGELINE PARK | PHASE 1

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NIBLEY, UT 84321

REVISIONS

NO.	symmdy	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect

12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

LANDSCAPE PLAN

Drawing number

LP202

MATCHLINE LP201
MATCHLINE LP203
MATCHLINE LP202
MATCHLINE LP203
MATCHLINE LP203
MATCHLINE LP205

LEGEND

PROPERTY BOUNDARY

BID ALTERNATE LIMIT LINE

WETLAND

PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME
	ACER NEGUNDO 'SENSATION' / BOX ELDER MAPLE
	QUERCUS MACROCARPA / BUR OAK
	TILIA AMERICANA 'REDMOND' / AMERICAN LINDEN
	TILIA CORDATA 'HALKA' SUMMER SPRITE / LITTLE LEAF LINDEN
	ZELKOVA SERRATA 'GREEN VASE' / ZELKOVA

EVERGREEN TREES	BOTANICAL / COMMON NAME
	CHAMAECYPARIS NOOTKATENSIS 'GLAUCA PENDULA' / BLUE WEEPING NOOTKA CYPRESS
	PICEA PUNGENS GLAUCA / COLORADO BLUE SPRUCE
	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID LIMBER PINE

ORNAMENTAL TREES	BOTANICAL / COMMON NAME
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	CRATAEGUS CRUS-GALLI INERMIS (MULTI-TRUNK) / THORNLESS COCKSPUR HAWTHORN
	MALUS X 'RASBERRY SPEAR' / RASBERRY SPEAR CRABAPPLE
	PRUNUS VIRGINIANA `CANADA RED` (MULTI-TRUNK) / CANADA RED CHOKECHERRY

SHRUBS	BOTANICAL / COMMON NAME
Dk	CARYOPTERIS X CLANDONENSIS `DARK KNIGHT` / BLUE MIST SHRUB
Jb	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP JUNIPER
Po	PHYSOCARPUS OPULIFOLIUS `DIABLO` / DIABLO NINEBARK
Ld	PHYSOCARPUS OPULIFOLIUS `LITTLE DEVIL` TM / DWARF NINEBARK
M	PINUS MUGO 'SLOWMOUND' / SLOWMOUND MUGO PINE
Gl	RHUS AROMATICA `GRO-LOW` / GRO-LOW FRAGRANT SUMAC
R	ROSA 'MEIGALIPO' RED DRIFT / RED DRIFT ROSE

ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME
A	ASTER X FRIKARTII `MONCH` / MONCH ASTER
D	RUDBECKIA FULGIDA SULLIVANTII `GOLDSTURM` / BLACK-EYED SUSAN

ORNAMENTAL GRASSES	BOTANICAL / COMMON NAME
K	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS
P	PENNISETUM ALOPECUROIDES `HAMELN` / HAMELN DWARF FOUNTAIN GRASS

GROUND COVERS	BOTANICAL / COMMON NAME
	BIOMEADOW BY BIOGRASS / BIOMEADOW
	NATIVE SEED
	PLANTING BED / MULCH
	POA PRATENSIS / KENTUCKY BLUEGRASS SEED
	POA PRATENSIS / KENTUCKY BLUEGRASS SOD

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
1	BLONDE "BROWNS CANYON" BOULDERS 3` - 5` DIAMETER; 1/3 @ 3` DIAMETER, 1/3 @ 4` DIAMETER AND 1/3 @ 5` DIAMETER	15

CONSTRUCTION DOCUMENTS

Scale: 1" = 20'-0"

0 10 20 40 60

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
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Nibley, UT 84321

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RIDGELINE PARK | PHASE 1

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NIBLEY, UT 84321

REVISIONS

NO.	symmddyy	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

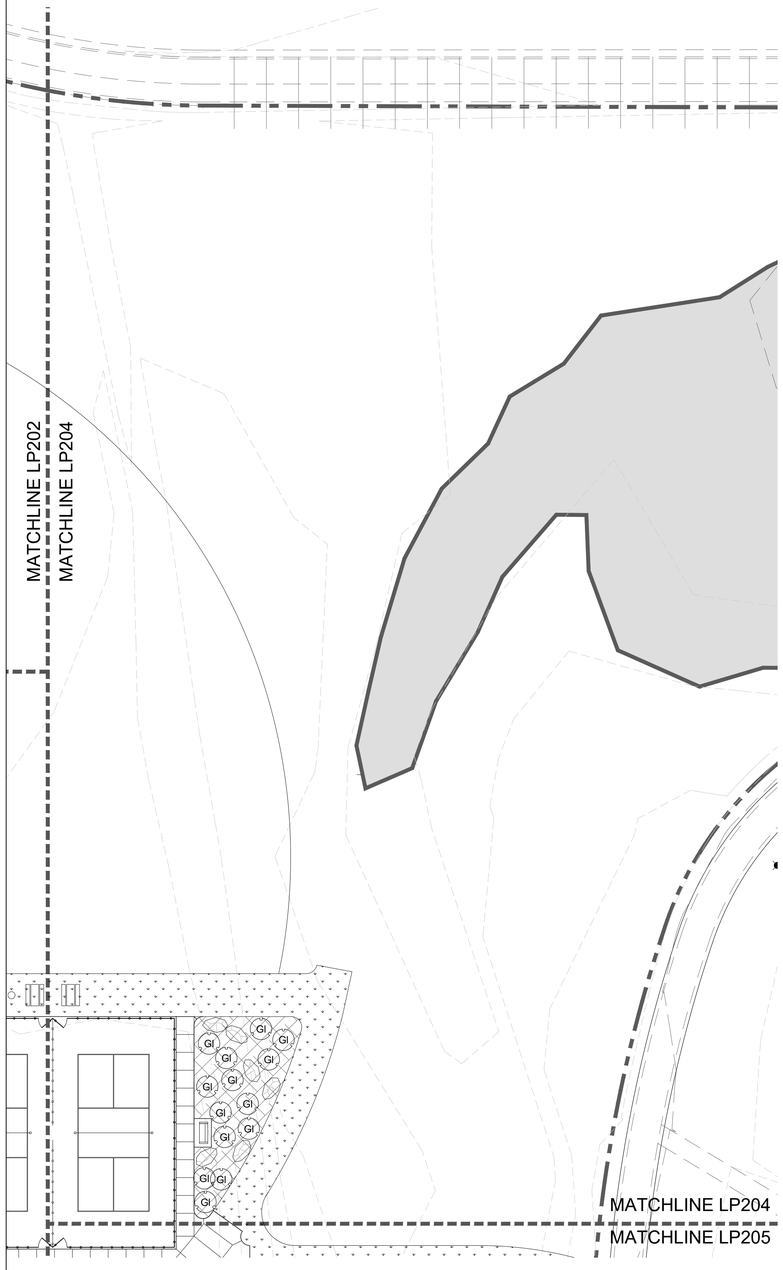
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

LANDSCAPE PLAN

Drawing number

LP203



LEGEND

- PROPERTY BOUNDARY
- BID ALTERNATE LIMIT LINE
- WETLAND

PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME
	ACER NEGUNDO 'SENSATION' / BOX ELDER MAPLE
	QUERCUS MACROCARPA / BUR OAK
	TILIA AMERICANA 'REDMOND' / AMERICAN LINDEN
	TILIA CORDATA 'HALKA' SUMMER SPRITE / LITTLE LEAF LINDEN
	ZELKOVA SERRATA 'GREEN VASE' / ZELKOVA

EVERGREEN TREES	BOTANICAL / COMMON NAME
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	PICEA PUNGENS GLAUCA / COLORADO BLUE SPRUCE
	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID LIMBER PINE

ORNAMENTAL TREES	BOTANICAL / COMMON NAME
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	CRATAEGUS CRUS-GALLI INERMIS (MULTI-TRUNK) / THORNLESS COCKSPUR HAWTHORN
	MALUS X 'RASBERRY SPEAR' / RASBERRY SPEAR CRABAPPLE
	PRUNUS VIRGINIANA `CANADA RED` (MULTI-TRUNK) / CANADA RED CHOKECHERRY

SHRUBS	BOTANICAL / COMMON NAME
Dk	CARYOPTERIS X CLANDONENSIS `DARK KNIGHT` / BLUE MIST SHRUB
Jb	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP JUNIPER
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Ld	PHYSOCARPUS OPULIFOLIUS `LITTLE DEVIL` TM / DWARF NINEBARK
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ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME
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ORNAMENTAL GRASSES	BOTANICAL / COMMON NAME
K	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GROSS
P	PENNISETUM ALOPECUROIDES `HAMELN` / HAMELN DWARF FOUNTAIN GRASS

GROUND COVERS	BOTANICAL / COMMON NAME
	BIOMEADOW BY BIOGRASS / BIOMEADOW
	NATIVE SEED
	PLANTING BED / MULCH
	POA PRATENSIS / KENTUCKY BLUEGRASS SEED
	POA PRATENSIS / KENTUCKY BLUEGRASS SOD

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
	BLONDE "BROWNS CANYON" BOULDERS 3` - 5` DIAMETER; 1/3 @ 3` DIAMETER, 1/3 @ 4` DIAMETER AND 1/3 @ 5` DIAMETER	15

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RIDGELINE PARK | PHASE 1

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REVISIONS

NO.	yy/mm/dd	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410046 4301
Professional Landscape Architect
12/06/2023

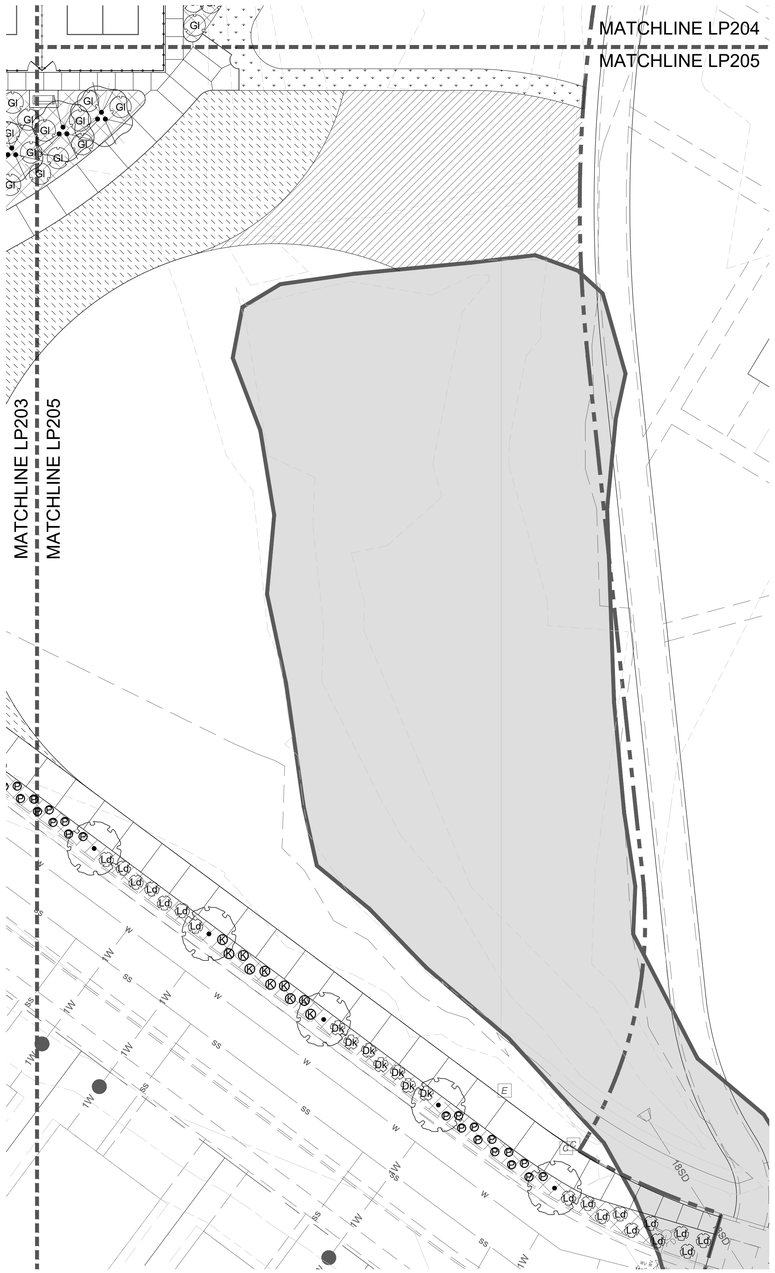
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

LANDSCAPE PLAN

Drawing number

LP204



LEGEND

- PROPERTY BOUNDARY
- BID ALTERNATE LIMIT LINE
- WETLAND

PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME
	ACER NEGUNDO 'SENSATION' / BOX ELDER MAPLE
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EVERGREEN TREES	BOTANICAL / COMMON NAME
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	MALUS X 'RASBERRY SPEAR' / RASBERRY SPEAR CRABAPPLE
	PRUNUS VIRGINIANA `CANADA RED` (MULTI-TRUNK) / CANADA RED CHOKECHERRY

SHRUBS	BOTANICAL / COMMON NAME
Dk	CARYOPTERIS X CLANDONENSIS `DARK KNIGHT` / BLUE MIST SHRUB
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	NATIVE SEED
	PLANTING BED / MULCH
	POA PRATENSIS / KENTUCKY BLUEGRASS SEED
	POA PRATENSIS / KENTUCKY BLUEGRASS SOD

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
1	BLONDE "BROWNS CANYON" BOULDERS 3` - 5` DIAMETER; 1/3 @ 3` DIAMETER, 1/3 @ 4` DIAMETER AND 1/3 @ 5` DIAMETER	15

Scale: 1" = 20'-0"

0 10 20 40 60

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S,
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO	(yyyy/mm/dd)	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

LANDSCAPE PLAN

Drawing number

LP205

PLANT SCHEDULE RIDGELINE PARK

DECIDUOUS TREES	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	ACER NEGUNDO 'SENSATION' / BOX ELDER MAPLE	B&B	1 1/2" CAL	15
	QUERCUS MACROCARPA / BUR OAK	B&B	1 1/2" CAL	7
	TILIA AMERICANA 'REDMOND' / AMERICAN LINDEN	B&B	1 1/2" CAL	15
	TILIA CORDATA 'HALKA' SUMMER SPRITE / LITTLE LEAF LINDEN	B&B	1 1/2" CAL	21
	ZELKOVA SERRATA 'GREEN VASE' / ZELKOVA	B&B	1 1/2" CAL	5

EVERGREEN TREES	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	CHAMAECYPARIS NOOTKATENSIS 'GLAUCA PENDULA' / BLUE WEEPING NOOTKA CYPRESS	B&B	6` HT	5
	PICEA PUNGENS GLAUCA / COLORADO BLUE SPRUCE	B&B	6` HT	5
	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID LIMBER PINE	B&B	6` HT	6

ORNAMENTAL TREES	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	ACER TATARICUM 'HOT WINGS' / HOT WINGS® TATARIAN MAPLE MULTI-TRUNK	B&B	6` HT	9
	CERCIS CANADENSIS 'RISING SUN' / EASTERN REDBUD	B&B	1 1/2" CAL	4
	CRATAEGUS CRUS-GALLI INERMIS (MULTI-TRUNK) / THORNLESS COCKSPUR HAWTHORN	B&B	6` HT	8
	MALUS X 'RASBERRY SPEAR' / RASBERRY SPEAR CRABAPPLE	B&B	1 1/2" CAL	8
	PRUNUS VIRGINIANA `CANADA RED` (MULTI-TRUNK) / CANADA RED CHOKECHERRY	B&B	6` HT	8

SHRUBS	BOTANICAL / COMMON NAME	CONT	QTY
Dk	CARYOPTERIS X CLANDONENSIS `DARK KNIGHT` / BLUE MIST SHRUB	2 GAL	95
Jb	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP JUNIPER	2 GAL	17
Po	PHYSOCARPUS OPULIFOLIUS `DIABLO` / DIABLO NINEBARK	2 GAL	19
Ld	PHYSOCARPUS OPULIFOLIUS `LITTLE DEVIL` TM / DWARF NINEBARK	2 GAL	54
	PINUS MUGO 'SLOWMOUND' / SLOWMOUND MUGO PINE	2 GAL	20
Gl	RHUS AROMATICA `GRO-LOW` / GRO-LOW FRAGRANT SUMAC	2 GAL	61
	ROSA 'MEIGALIPO' RED DRIFT / RED DRIFT ROSE	2 GAL	18

ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME	CONT	
A	ASTER X FRIKARTII `MONCH` / MONCH ASTER	1 GAL	38
D	RUDBECKIA FULGIDA SULLIVANTII `GOLDSTURM` / BLACK-EYED SUSAN	1 GAL	56

ORNAMENTAL GRASSES	BOTANICAL / COMMON NAME	CONT	
K	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS	1 GAL	98
P	PENNISETUM ALOPECUROIDES `HAMELN` / HAMELN DWARF FOUNTAIN GRASS	1 GAL	117

GROUND COVERS	BOTANICAL / COMMON NAME	CONT	SPACING
	BIOMEADOW BY BIOGRASS / BIOMEADOW	SEED	34,768 SF
	NATIVE SEED	SEED	6,108 SF
	PLANTING BED / MULCH	BED	15,522 SF
	POA PRATENSIS / KENTUCKY BLUEGRASS	SEED	43,392 SF
	POA PRATENSIS / KENTUCKY BLUEGRASS	SOD	28,470 SF

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
	BLONDE "BROWNS CANYON" BOULDERS 3` - 5` DIAMETER; 1/3 @ 3` DIAMETER, 1/3 @ 4` DIAMETER AND 1/3 @ 5` DIAMETER	15

PLANT SCHEDULE BID ALTERNATE

ORNAMENTAL TREES	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	CERCIS CANADENSIS 'RISING SUN' / EASTERN REDBUD	B&B	1 1/2" CAL	4

SHRUBS	BOTANICAL / COMMON NAME	CONT	QTY
R	ROSA 'MEIGALIPO' RED DRIFT / RED DRIFT ROSE	2 GAL	7

ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME	CONT	QTY
A	ASTER X FRIKARTII `MONCH` / MONCH ASTER	1 GAL	10
D	RUDBECKIA FULGIDA SULLIVANTII `GOLDSTURM` / BLACK-EYED SUSAN	1 GAL	11

ORNAMENTAL GRASSES	BOTANICAL / COMMON NAME	CONT	QTY
P	PENNISETUM ALOPECUROIDES `HAMELN` / HAMELN DWARF FOUNTAIN GRASS	1 GAL	12

GROUND COVERS	BOTANICAL / COMMON NAME	CONT	SPACING
	BIOMEADOW BY BIOGRASS / BIOMEADOW	SEED	2,118 SF
	PLANTING BED / MULCH	BED	343 SF
	POA PRATENSIS / KENTUCKY BLUEGRASS	SEED	13,296 SF

* ALL SHOWN QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE TO CONDUCT INDEPENDENT TAKEOFFS TO ESTABLISH QUANTITIES. PLAN SYMBOL QUANTITIES OVERRIDE QUANTITIES SHOWN IN SCHEDULE.

LANDSCAPE NOTES:

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND NIBLEY CITY STANDARDS, SPECIFICATIONS, AND DETAILS.
2. ALL PLANT MATERIAL SHALL BE GROWN IN CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THIS WORK AND SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 UNLESS OTHERWISE NOTED. PROVIDE TREES OF NORMAL GROWTH AND UNIFORM HEIGHTS, ACCORDING TO SPECIES, WITH STRAIGHT TRUNKS AND WELL DEVELOPED LEADERS, LATERALS, AND ROOTS.
3. EXISTING UTILITIES, EASEMENTS, AND STRUCTURES SHOWN ON THE DRAWINGS ARE IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, SIZE, TYPE, AND STRUCTURES TO BE ENCOUNTERED ON THE PROJECT PRIOR TO ANY EXCAVATION AND CONSTRUCTION IN THE VICINITY OF THE EXISTING UTILITIES AND STRUCTURES.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL REQUIRED PERMITS, LICENSES, AND APPROVALS REQUIRED TO LEGALLY AND RESPONSIBLY COMPLETE THE WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, DISPOSAL, OR RELOCATION OF ALL OBSTRUCTIONS AND DEBRIS WITHIN THE DELINEATED CONSTRUCTION AREA PRIOR TO STARTING NEW CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY DEBRIS RESULTING FROM NEW CONSTRUCTION.
6. DAMAGE TO ANY EXISTING IMPROVEMENTS OR TO ANY PORTION OF THE PROJECT'S SURROUNDING AREA DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO THE PROJECT'S SURROUNDING AREAS AND EXISTING FEATURES AND FACILITIES SCHEDULED TO REMAIN AS PART OF THE FINISHED CONSTRUCTION. REPAIR, REPLACEMENT, AND/OR REMOVAL AS DETERMINED BY OWNER SHALL BE AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL CALL BLUE STAKES AT 1-800-662-4111 FOR UNDERGROUND UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION.
8. CONTRACTOR SHALL ROUGH GRADE TO WITHIN +/- A TENTH OF A FOOT FROM FINISH GRADE. ALL TURF GRASS AREAS SHALL BE GRADED 6" BELOW PROPOSED FINISH GRADE. SHRUB BEDS SHALL BE GRADED 12" BELOW PROPOSED FINISH GRADE.
9. ALL COMPACTED AREAS DEVELOPED THROUGH CONSTRUCTION WITHIN PROPOSED LANDSCAPE AREAS SHALL BE SCARIFIED AND LOOSENED TO A DEPTH OF 12" PRIOR TO LANDSCAPE AND IRRIGATION WORK BEGINNING.
10. INSTALL A MIN. OF 4" OF PREMIUM TOPSOIL FOR ALL TURF GRASS AND BIO-MEADOW AREAS. INSTALL 8" OF PREMIUM TOPSOIL IN ALL SHRUB BEDS. ALL PLANTING PITS SHALL RECEIVE PLANTING BACKFILL MIX.
11. INSTALL A MIN. OF 3 INCHES OF SMALL BARK MULCH WITH WEED BARRIER FABRIC IN ALL SHRUB BEDS. APPLY PRE-EMERGENT TO ALL PLANTING BEDS BEFORE INSTALLING MULCH.
12. NO PLANT SPECIES SUBSTITUTIONS WILL BE MADE WITHOUT APPROVAL OF OWNER.
13. ALL PLANT LAYOUT SHALL BE VERIFIED AND APPROVED IN FIELD BY OWNER PRIOR TO PLANTING. FAILURE TO RECEIVE APPROVAL MAY RESULT IN RE-WORK BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
14. ALL AREAS WITHIN AND AFFECTED BY THIS PROJECT SHALL HAVE POSITIVE DRAINAGE. POSITIVE DRAINAGE SHALL BE PROVIDED TO DIRECT STORMWATER AWAY FROM ALL STRUCTURES.
15. ALL CLARIFICATIONS OF DISCREPANCIES BETWEEN THE DRAWINGS AND THE SITE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO BEGINNING OF WORK.

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8719 S. Sandy Parkway
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OWNER:
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RIDGELINE PARK | PHASE 1
401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

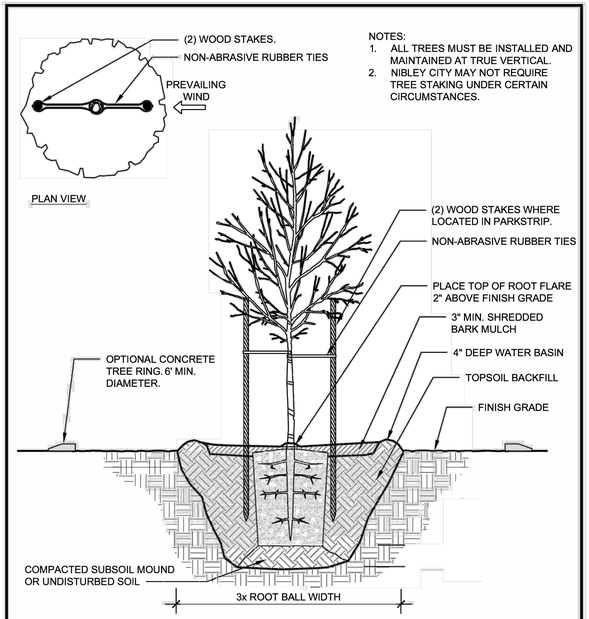
NO.	(c)mm/dd/yy	DESCRIPTION

Stamp
STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

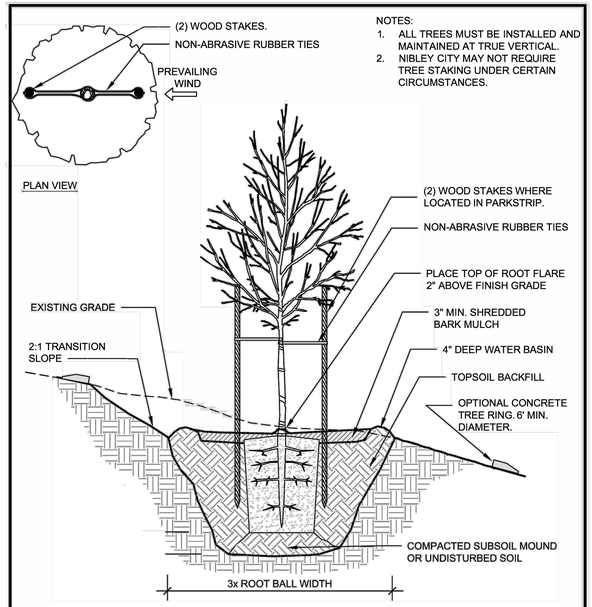
Drawing Title
LANDSCAPE NOTES & SCHEDULE

Drawing number
LP501



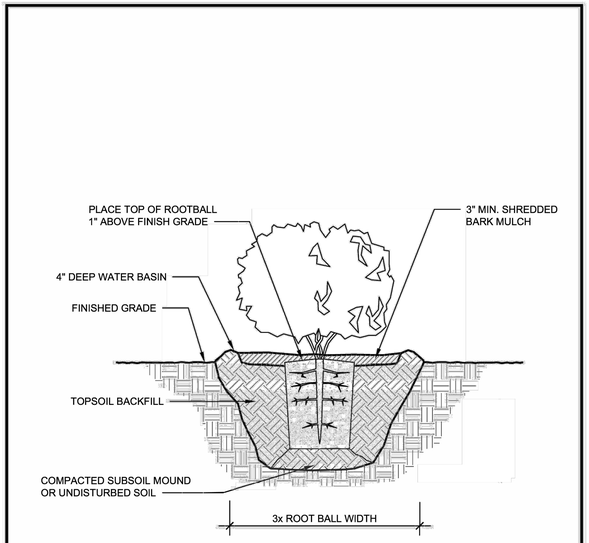
TREE PLANTING
NOT TO SCALE

Planting Details
Tree Planting
Drawing No. 01
Rev. No. 0



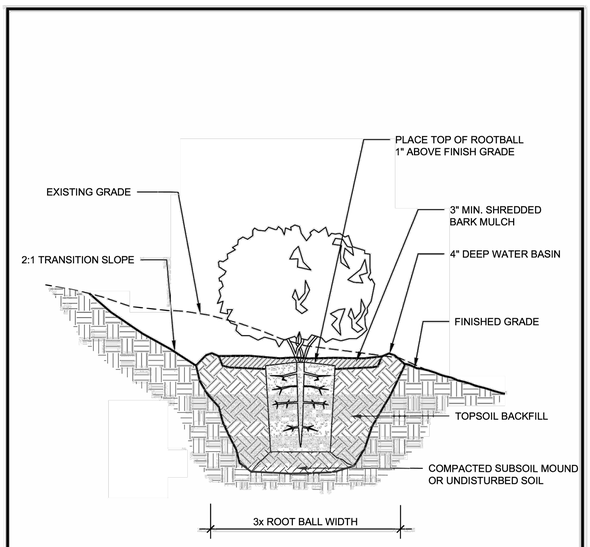
TREE PLANTING ON SLOPE
NOT TO SCALE

Planting Details
Tree Planting on Slope
Drawing No. 02
Rev. No. 0



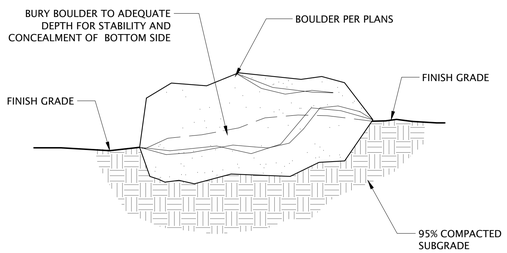
SHRUB PLANTING
NOT TO SCALE

Planting Details
Shrub Planting
Drawing No. 03
Rev. No. 0



SHRUB PLANTING ON SLOPE
NOT TO SCALE

Planting Details
Shrub Planting on Slope
Drawing No. 04
Rev. No. 0



NOTE:
1. BOULDERS TO BE BLONDE BROWNS CANYON BOULDERS 3'-5' DIAMETER .
2. CONTRACTOR TO SET SAMPLE GROUPINGS OF BOULDERS WITH LANDSCAPE ARCHITECT'S DIRECTION PRIOR TO BEGINNING BOULDER WORK TO DETERMINE AESTHETIC DIRECTION FOR COMPLETION OF WORK.
3. ALL BOULDERS SHALL BE A MIN. 3' TO 6' BOULDERS AS SHOWN ON PLAN. SEE PLANS FOR ADDITIONAL SIZING AND STONE INFORMATION.

5 LANDSCAPE BOULDER
NOT TO SCALE P-22-209-04

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NIBLEY

PHASE 1

RIDGELINE PARK | PHASE 1
401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	comments	DESCRIPTION

Stamp
STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title
LANDSCAPE DETAILS

Drawing number
LP502

CONSTRUCTION DOCUMENTS

NOTE:
IRRIGATION PLAN DESIGNED FOR BASE BID. IF OTHER BID ALTERNATES ARE SELECTED UPDATED IRRIGATION DRAWINGS WILL BE PROVIDED.

Scale: 1" = 50'-0"

0 25 50 100 150

CONSTRUCTION DOCUMENTS

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Sandy, UT 84070
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RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	APPROVED	DESCRIPTION

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STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect

12/06/2023

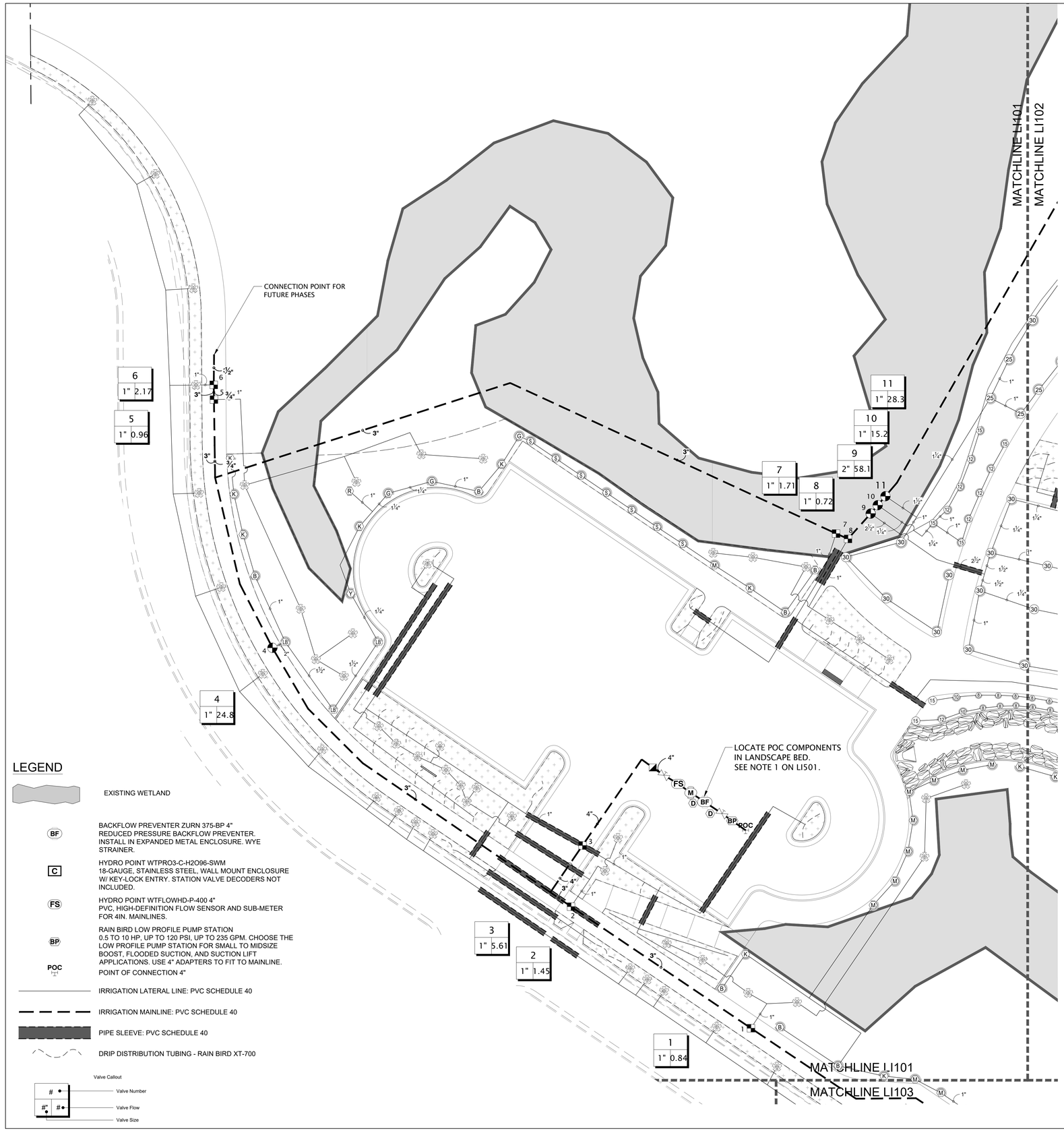
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

OVERALL IRRIGATION PLAN

Drawing number

LI100



LEGEND

EXISTING WETLAND

BF — BACKFLOW PREVENTER ZURN 375-BP 4" REDUCED PRESSURE BACKFLOW PREVENTER. INSTALL IN EXPANDED METAL ENCLOSURE. WYE STRAINER.

C — HYDRO POINT WTPRO3-C-H2O96-SWM 18-GAUGE, STAINLESS STEEL, WALL MOUNT ENCLOSURE W/ KEY-LOCK ENTRY. STATION VALVE DECODERS NOT INCLUDED.

FS — HYDRO POINT WTFLOWHD-P-400 4" PVC, HIGH-DEFINITION FLOW SENSOR AND SUB-METER FOR 4IN. MAINLINES.

BP — RAIN BIRD LOW PROFILE PUMP STATION 0.5 TO 10 HP, UP TO 120 PSI, UP TO 235 GPM. CHOOSE THE LOW PROFILE PUMP STATION FOR SMALL TO MIDSIZE BOOST, FLOODED SUCTION, AND SUCTION LIFT APPLICATIONS. USE 4" ADAPTERS TO FIT TO MAINLINE.

POC — POINT OF CONNECTION 4"

IRRIGATION LATERAL LINE: PVC SCHEDULE 40

IRRIGATION MAINLINE: PVC SCHEDULE 40

PIPE SLEEVE: PVC SCHEDULE 40

DRIP DISTRIBUTION TUBING - RAIN BIRD XT-700

Valve Callout
— Valve Number
#" / # — Valve Flow / Valve Size

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
8 Q, 8 T, 8 H, 8 F	HUNTER PROS-06-PRS30-CV 8 SERIES	30
10 Q, 10 T, 10 H, 10 F	HUNTER PROS-06-PRS30-CV 10 SERIES	30
12 Q, 12 T, 12 H, 12 TT, 12 TQ, 12 F	HUNTER PROS-06-PRS30-CV 12 SERIES	30
15 Q, 15 T, 15 H, 15 TT, 15 TQ, 15 F	HUNTER PROS-06-PRS30-CV 15 SERIES	30
4 6 8 10 12 15 17	HUNTER PROS-06-PRS30-CV ADJ SERIES	30
T	HUNTER MP CORNER PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. T=TURQUOISE ADJ ARC 45-105.	40
L S R (LST SST RST)	HUNTER MP STRIP PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	40
M L O	HUNTER MP1000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40
K G R	HUNTER MP2000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40
B Y A	HUNTER MP3000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	40
I (800 A) I (800 F)	HUNTER MP800SR PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)	40
M L O	HUNTER MP815 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON AND GRAY ADJ ARC 90 TO 210, L=LIGHT BLUE AND GRAY 210 TO 270 ARC, O=OLIVE AND GRAY 360 ARC.	40
L S R (LST SST RST)	HUNTER MP STRIP PROS-12-PRS40-CV	40
M L O	HUNTER MP1000 PROS-12-PRS40-CV	40
K G R	HUNTER MP2000 PROS-12-PRS40-CV	40
B Y A	HUNTER MP3000 PROS-12-PRS40-CV	40
LB	HUNTER MP3500 PROS-12-PRS40-CV	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
25	HUNTER I-20-06-PRB-MPR 25	45
25	HUNTER I-20-12-PRB-MPR 25	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
	HUNTER ICZ-101-40 DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	
	NETAFIM TLCV-04-18 DRIP RING	15
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD XBCVT-PC SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 0.5 GPH=BLUE, 1.0 GPH=BLACK, AND 2.0 GPH=RED. COMES WITH A 1/2IN. FPT INLET X BARB OUTLET. W/ CHECK VALVE.	10
	20PC emitters (4 assigned to each B&B, 1 1/2" Cal plant)	
	20PC emitters (1 assigned to each 1 Gal plant)	
	20PC emitters (2 assigned to each 5 Gal plant)	
	20PC emitters (4 assigned to each B&B, 6` HT MIN. plant)	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER ICV-G 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.
	RAIN BIRD 44-LRC 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.
	ISOLATION VALVE - MATCO NORCA 2OORTD 4"
M	NETAFIM GLOBE FLANGED 4" CAST IRON ELECTRIC MASTER VALVE, WITH GLOBE FLANGED CONNECTION. PRESSURE REDUCING, PRESSURE SUSTAINING, QUICK RELIEF, AND PUMP CONTROL. AVAILABLE IN 2IN., 3IN., 4IN., 6IN. AND 8IN..
D	MANUAL DRAIN - FORD B11-333

CONSTRUCTION DOCUMENTS

Scale: 1" = 20'-0"
0 10 20 40 60

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NIBLEY

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REVISIONS

NO.	symmetry	DESCRIPTION

Stamp
STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Licensed Landscape Architect
12/06/2023

Designed By:	RD
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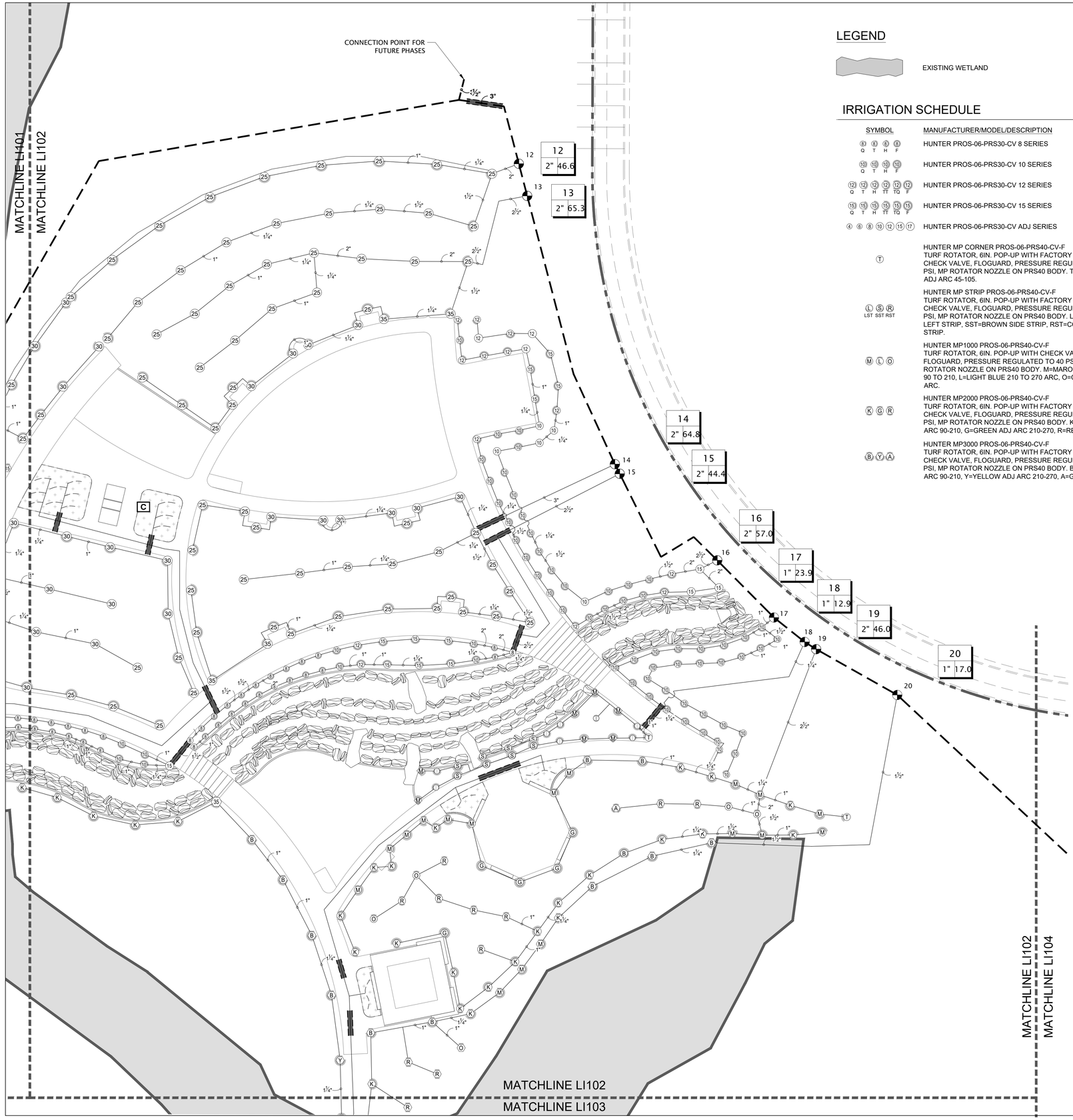
Project No:	22-209

Drawing Title
IRRIGATION PLAN

Drawing number
LI101



LEGEND

EXISTING WETLAND

IRRIGATION SCHEDULE

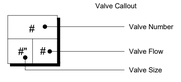
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
8 Q, 8 T, 8 H, 8 F	HUNTER PROS-06-PRS30-CV 8 SERIES	30
10 Q, 10 T, 10 H, 10 F	HUNTER PROS-06-PRS30-CV 10 SERIES	30
12 Q, 12 T, 12 H, 12 TT, 12 TQ, 12 F	HUNTER PROS-06-PRS30-CV 12 SERIES	30
15 Q, 15 T, 15 H, 15 TT, 15 TQ, 15 F	HUNTER PROS-06-PRS30-CV 15 SERIES	30
4, 6, 8, 10, 12, 15, 17	HUNTER PROS-06-PRS30-CV ADJ SERIES	30
T	HUNTER MP CORNER PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. T=TURQUOISE ADJ ARC 45-105.	40
L S R LST SST RST	HUNTER MP STRIP PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	40
M L O	HUNTER MP1000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40
K G R	HUNTER MP2000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40
B Y A	HUNTER MP3000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	40
I 800 A, I 800 F	HUNTER MP800SR PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)	40
M L O	HUNTER MP815 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON AND GRAY ADJ ARC 90 TO 210, L=LIGHT BLUE AND GRAY 210 TO 270 ARC, O=OLIVE AND GRAY 360 ARC.	40
L S R LST SST RST	HUNTER MP STRIP PROS-12-PRS40-CV	40
M L O	HUNTER MP1000 PROS-12-PRS40-CV	40
K G R	HUNTER MP2000 PROS-12-PRS40-CV	40
B Y A	HUNTER MP3000 PROS-12-PRS40-CV	40
LB	HUNTER MP3500 PROS-12-PRS40-CV	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
25	HUNTER I-20-06-PRB-MPR 25	45
25	HUNTER I-20-12-PRB-MPR 25	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
	HUNTER ICZ-101-40 DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	
	NETAFIM TLCV-04-18 DRIP RING	15
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD XBCVT-PC SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 0.5 GPH=BLUE, 1.0 GPH=BLACK, AND 2.0 GPH=RED. COMES WITH A 1/2IN. FPT INLET X BARB OUTLET. W/ CHECK VALVE. 20PC emitters (4 assigned to each B&B, 1 1/2" Cal plant) 20PC emitters (1 assigned to each 1 Gal plant) 20PC emitters (2 assigned to each 5 Gal plant) 20PC emitters (4 assigned to each B&B, 6` HT MIN. plant)	10

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER ICV-G 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.
	RAIN BIRD 44-LRC 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.
	ISOLATION VALVE - MATCO NORCA 2OORTD 4"
M	NETAFIM GLOBE FLANGED 4" CAST IRON ELECTRIC MASTER VALVE, WITH GLOBE FLANGED CONNECTION. PRESSURE REDUCING, PRESSURE SUSTAINING, QUICK RELIEF, AND PUMP CONTROL. AVAILABLE IN 2IN., 3IN., 4IN., 6IN. AND 8IN..
D	MANUAL DRAIN - FORD B11-333
BF	BACKFLOW PREVENTER ZURN 375-BP 4" REDUCED PRESSURE BACKFLOW PREVENTER. INSTALL IN EXPANDED METAL ENCLOSURE. WYE STRAINER.
C	HYDRO POINT WTPRO3-C-H2O96-SWM 18-GAUGE, STAINLESS STEEL, WALL MOUNT ENCLOSURE W/ KEY-LOCK ENTRY. STATION VALVE DECODERS NOT INCLUDED.
FS	HYDRO POINT WTFLOWHD-P-400 4" PVC, HIGH-DEFINITION FLOW SENSOR AND SUB-METER FOR 4IN. MAINLINES.
BP	RAIN BIRD LOW PROFILE PUMP STATION 0.5 TO 10 HP, UP TO 120 PSI, UP TO 235 GPM. CHOOSE THE LOW PROFILE PUMP STATION FOR SMALL TO MIDSIZE BOOST, FLOODED SUCTION, AND SUCTION LIFT APPLICATIONS. USE 4" ADAPTERS TO FIT TO MAINLINE.
POC	POINT OF CONNECTION 4"
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	DRIP DISTRIBUTION TUBING - RAIN BIRD XT-700

Valve Callout



Scale: 1" = 20'-0"

0 10 20 40 60

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
455 W 3200 S.
Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	yy/mm/dd	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

IRRIGATION PLAN

Drawing number

LI102

LEGEND

EXISTING WETLAND

IRRIGATION SCHEDULE

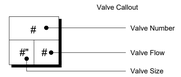
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
8 Q, 8 T, 8 H, 8 F	HUNTER PROS-06-PRS30-CV 8 SERIES	30
10 Q, 10 T, 10 H, 10 F	HUNTER PROS-06-PRS30-CV 10 SERIES	30
12 Q, 12 T, 12 H, 12 TT, 12 TQ, 12 F	HUNTER PROS-06-PRS30-CV 12 SERIES	30
15 Q, 15 T, 15 H, 15 TT, 15 TQ, 15 F	HUNTER PROS-06-PRS30-CV 15 SERIES	30
4, 6, 8, 10, 12, 15, 17	HUNTER PROS-06-PRS30-CV ADJ SERIES	30
T	HUNTER MP CORNER PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. T=TURQUOISE ADJ ARC 45-105.	40
L LST, S SST, R RST	HUNTER MP STRIP PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	40
M, L, O	HUNTER MP1000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40
K, G, R	HUNTER MP2000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40
B, Y, A	HUNTER MP3000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	40
800 A, 800 F	HUNTER MP800SR PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)	40
M, L, O	HUNTER MP815 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON AND GRAY ADJ ARC 90 TO 210, L=LIGHT BLUE AND GRAY 210 TO 270 ARC, O=OLIVE AND GRAY 360 ARC.	40
L LST, S SST, R RST	HUNTER MP STRIP PROS-12-PRS40-CV	40
M, L, O	HUNTER MP1000 PROS-12-PRS40-CV	40
K, G, R	HUNTER MP2000 PROS-12-PRS40-CV	40
B, Y, A	HUNTER MP3000 PROS-12-PRS40-CV	40
LB	HUNTER MP3500 PROS-12-PRS40-CV	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
25	HUNTER I-20-06-PRB-MPR 25	45
25	HUNTER I-20-12-PRB-MPR 25	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
	HUNTER ICZ-101-40 DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	
	NETAFIM TLCV-04-18 DRIP RING	15
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD XBCVT-PC SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 0.5 GPH=BLUE, 1.0 GPH=BLACK, AND 2.0 GPH=RED. COMES WITH A 1/2IN. FPT INLET X BARB OUTLET. W/ CHECK VALVE.	10
	20PC emitters (4 assigned to each B&B, 1 1/2" Cal plant)	
	20PC emitters (1 assigned to each 1 Gal plant)	
	20PC emitters (2 assigned to each 5 Gal plant)	
	20PC emitters (4 assigned to each B&B, 6` HT MIN. plant)	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER ICV-G 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.
	RAIN BIRD 44-LRC 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.
	ISOLATION VALVE - MATCO NORCA 2OORTD 4"
M	NETAFIM GLOBE FLANGED 4" CAST IRON ELECTRIC MASTER VALVE, WITH GLOBE FLANGED CONNECTION. PRESSURE REDUCING, PRESSURE SUSTAINING, QUICK RELIEF, AND PUMP CONTROL. AVAILABLE IN 2IN., 3IN., 4IN., 6IN. AND 8IN..
D	MANUAL DRAIN - FORD B11-333
BF	BACKFLOW PREVENTER ZURN 375-BP 4" REDUCED PRESSURE BACKFLOW PREVENTER. INSTALL IN EXPANDED METAL ENCLOSURE. WYE STRAINER.
C	HYDRO POINT WTPRO3-C-H2O96-SWM 18-GAUGE, STAINLESS STEEL, WALL MOUNT ENCLOSURE W/ KEY-LOCK ENTRY. STATION VALVE DECODERS NOT INCLUDED.
FS	HYDRO POINT WTFLOWHD-P-400 4" PVC, HIGH-DEFINITION FLOW SENSOR AND SUB-METER FOR 4IN. MAINLINES.
BP	RAIN BIRD LOW PROFILE PUMP STATION 0.5 TO 10 HP, UP TO 120 PSI, UP TO 235 GPM. CHOOSE THE LOW PROFILE PUMP STATION FOR SMALL TO MIDSIZE BOOST, FLOODED SUCTION, AND SUCTION LIFT APPLICATIONS. USE 4" ADAPTERS TO FIT TO MAINLINE.
POC	POINT OF CONNECTION 4"
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	DRIP DISTRIBUTION TUBING - RAIN BIRD XT-700

Valve Callout



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Sandy, UT 84070
p 801.679.3157

OWNER:
NIBLEY CITY
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Nibley, UT 84321

CONTACT:
TOM DICKINSON
PH: 435.757.9848

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	symmetry	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

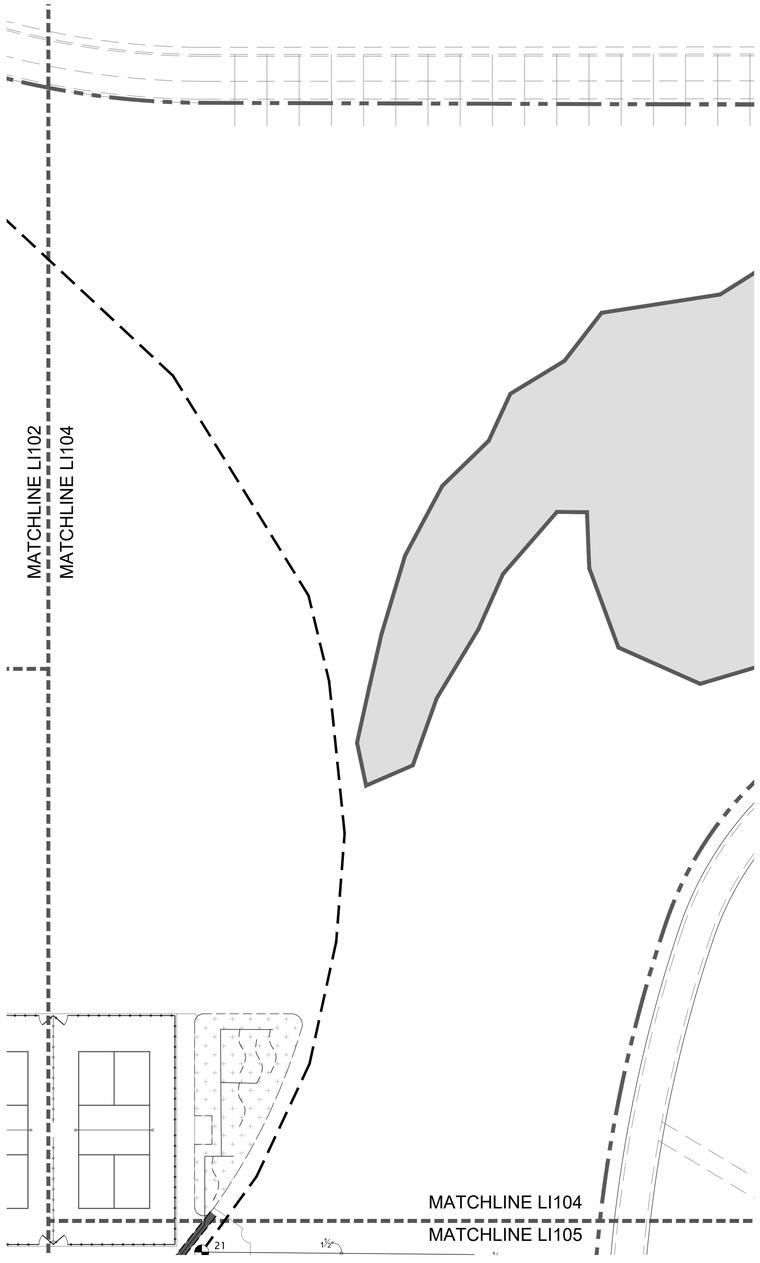
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

IRRIGATION PLAN

Drawing number

LI103



LEGEND

EXISTING WETLAND

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
8 Q, 8 T, 8 H, 8 F	HUNTER PROS-06-PRS30-CV 8 SERIES	30
10 Q, 10 T, 10 H, 10 F	HUNTER PROS-06-PRS30-CV 10 SERIES	30
12 Q, 12 T, 12 H, 12 TT, 12 TQ, 12 F	HUNTER PROS-06-PRS30-CV 12 SERIES	30
15 Q, 15 T, 15 H, 15 TT, 15 TQ, 15 F	HUNTER PROS-06-PRS30-CV 15 SERIES	30
4, 6, 8, 10, 12, 15, 17	HUNTER PROS-06-PRS30-CV ADJ SERIES	30
T	HUNTER MP CORNER PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. T=TURQUOISE ADJ ARC 45-105.	40
L LST, S SST, R RST	HUNTER MP STRIP PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	40
M, L, O	HUNTER MP1000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40
K, G, R	HUNTER MP2000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40
B, Y, A	HUNTER MP3000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	40
800 A, 800 F	HUNTER MP800SR PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)	40
M, L, O	HUNTER MP815 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON AND GRAY ADJ ARC 90 TO 210, L=LIGHT BLUE AND GRAY 210 TO 270 ARC, O=OLIVE AND GRAY 360 ARC.	40
L LST, S SST, R RST	HUNTER MP STRIP PROS-12-PRS40-CV	40
M, L, O	HUNTER MP1000 PROS-12-PRS40-CV	40
K, G, R	HUNTER MP2000 PROS-12-PRS40-CV	40
B, Y, A	HUNTER MP3000 PROS-12-PRS40-CV	40
LB	HUNTER MP3500 PROS-12-PRS40-CV	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
25	HUNTER I-20-06-PRB-MPR 25	45
25	HUNTER I-20-12-PRB-MPR 25	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
	HUNTER ICZ-101-40 DRIP CONTROL ZONE KIT, 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION; 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	
	NETAFIM TLCV-04-18 DRIP RING	15
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD XBCVT-PC SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 0.5 GPH=BLUE, 1.0 GPH=BLACK, AND 2.0 GPH=RED. COMES WITH A 1/2IN. FPT INLET X BARB OUTLET. W/ CHECK VALVE.	10
	20PC emitters (4 assigned to each B&B, 1 1/2" Cal plant)	
	20PC emitters (1 assigned to each 1 Gal plant)	
	20PC emitters (2 assigned to each 5 Gal plant)	
	20PC emitters (4 assigned to each B&B, 6` HT MIN. plant)	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER ICV-G 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.
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	ISOLATION VALVE - MATCO NORCA 2OORTD 4"

M	NETAFIM GLOBE FLANGED 4" CAST IRON ELECTRIC MASTER VALVE, WITH GLOBE FLANGED CONNECTION. PRESSURE REDUCING, PRESSURE SUSTAINING, QUICK RELIEF, AND PUMP CONTROL. AVAILABLE IN 2IN., 3IN., 4IN., 6IN. AND 8IN..
D	MANUAL DRAIN - FORD B11-333
BF	BACKFLOW PREVENTER ZURN 375-BP 4" REDUCED PRESSURE BACKFLOW PREVENTER. INSTALL IN EXPANDED METAL ENCLOSURE. WYE STRAINER.
C	HYDRO POINT WTPRO3-C-H2O96-SWM 18-GAUGE, STAINLESS STEEL, WALL MOUNT ENCLOSURE W/ KEY-LOCK ENTRY. STATION VALVE DECODERS NOT INCLUDED.
FS	HYDRO POINT WTFLOWHD-P-400 4" PVC, HIGH-DEFINITION FLOW SENSOR AND SUB-METER FOR 4IN. MAINLINES.
BP	RAIN BIRD LOW PROFILE PUMP STATION 0.5 TO 10 HP, UP TO 120 PSI, UP TO 235 GPM. CHOOSE THE LOW PROFILE PUMP STATION FOR SMALL TO MIDSIZE BOOST, FLOODED SUCTION, AND SUCTION LIFT APPLICATIONS. USE 4" ADAPTERS TO FIT TO MAINLINE.
POC	POINT OF CONNECTION 4"
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40

Scale: 1" = 20'-0"

0 10 20 40 60

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
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OWNER:
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CONTACT:
TOM DICKINSON
PH: 435.757.9848

NIBLEY

RIDGELINE PARK | PHASE 1

401 W EST ROPELATO DRIVE
NIBLEY, UT 84321

REVISIONS

NO.	yy/mm/dd	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect

12/06/2023

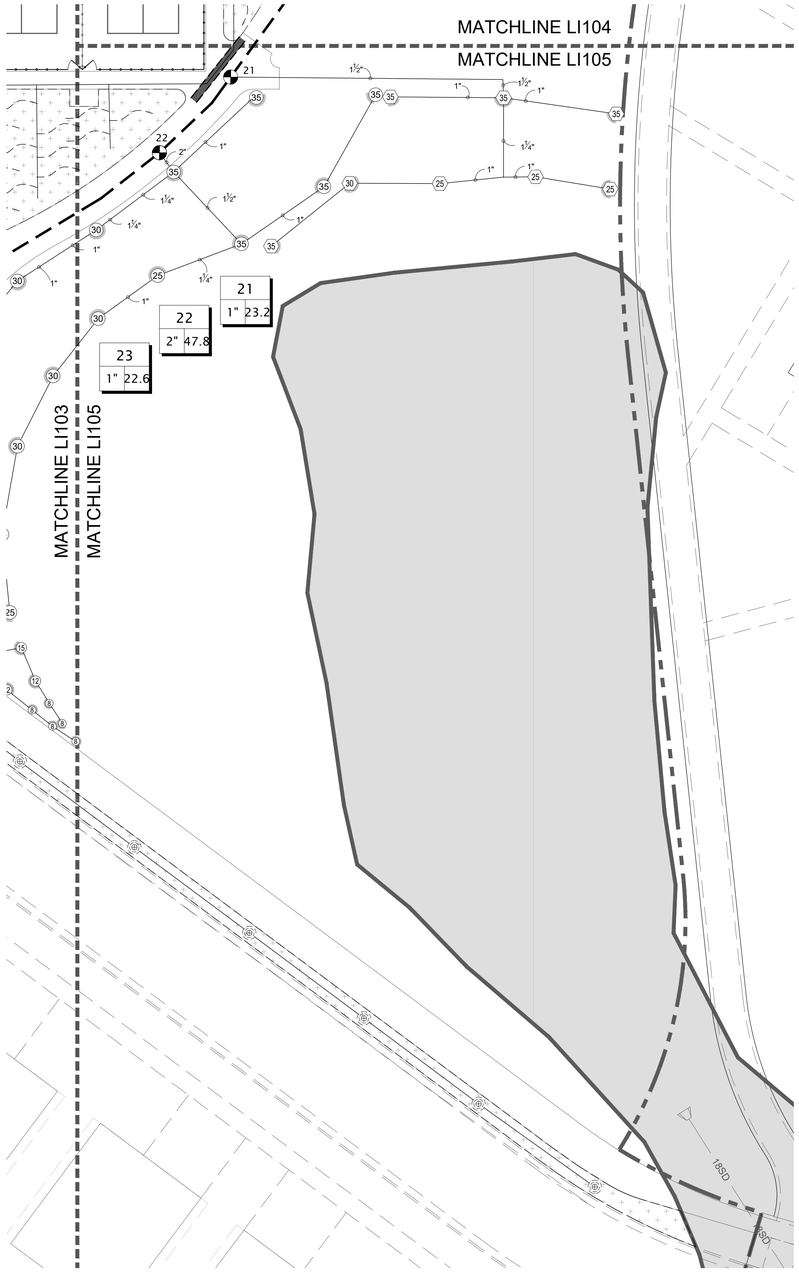
Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

IRRIGATION PLAN

Drawing number

LI104



LEGEND

EXISTING WETLAND

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
8 Q, 8 T, 8 H, 8 F	HUNTER PROS-06-PRS30-CV 8 SERIES	30
10 Q, 10 T, 10 H, 10 F	HUNTER PROS-06-PRS30-CV 10 SERIES	30
12 Q, 12 T, 12 H, 12 TT, 12 TQ, 12 F	HUNTER PROS-06-PRS30-CV 12 SERIES	30
15 Q, 15 T, 15 H, 15 TT, 15 TQ, 15 F	HUNTER PROS-06-PRS30-CV 15 SERIES	30
4 6 8 10 12 15 17	HUNTER PROS-06-PRS30-CV ADJ SERIES	30
T	HUNTER MP CORNER PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. T=TURQUOISE ADJ ARC 45-105.	40
L LST, S SST, R RST	HUNTER MP STRIP PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	40
M, L, O	HUNTER MP1000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40
K, G, R	HUNTER MP2000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40
B, Y, A	HUNTER MP3000 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	40
J 800 A, J 800 F	HUNTER MP800SR PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)	40
M, L, O	HUNTER MP815 PROS-06-PRS40-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON AND GRAY ADJ ARC 90 TO 210, L=LIGHT BLUE AND GRAY 210 TO 270 ARC, O=OLIVE AND GRAY 360 ARC.	40
L LST, S SST, R RST	HUNTER MP STRIP PROS-12-PRS40-CV	40
M, L, O	HUNTER MP1000 PROS-12-PRS40-CV	40
K, G, R	HUNTER MP2000 PROS-12-PRS40-CV	40
B, Y, A	HUNTER MP3000 PROS-12-PRS40-CV	40
LB	HUNTER MP3500 PROS-12-PRS40-CV	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
25	HUNTER I-20-06-PRB-MPR 25	45
25	HUNTER I-20-12-PRB-MPR 25	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
	HUNTER ICZ-101-40 DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	
LB	NETAFIM TLCV-04-18 DRIP RING	15
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD XBCVT-PC SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 0.5 GPH=BLUE, 1.0 GPH=BLACK, AND 2.0 GPH=RED. COMES WITH A 1/2IN. FPT INLET X BARB OUTLET. W/ CHECK VALVE.	10
	20PC emitters (4 assigned to each B&B, 1 1/2" Cal plant)	
	20PC emitters (1 assigned to each 1 Gal plant)	
	20PC emitters (2 assigned to each 5 Gal plant)	
	20PC emitters (4 assigned to each B&B, 6` HT MIN. plant)	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER ICV-G 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.
	RAIN BIRD 44-LRC 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.
	ISOLATION VALVE - MATCO NORCA 2OORTD 4"
M	NETAFIM GLOBE FLANGED 4" CAST IRON ELECTRIC MASTER VALVE, WITH GLOBE FLANGED CONNECTION. PRESSURE REDUCING, PRESSURE SUSTAINING, QUICK RELIEF, AND PUMP CONTROL. AVAILABLE IN 2IN., 3IN., 4IN., 6IN. AND 8IN..
D	MANUAL DRAIN - FORD B11-333
BF	BACKFLOW PREVENTER ZURN 375-BP 4" REDUCED PRESSURE BACKFLOW PREVENTER. INSTALL IN EXPANDED METAL ENCLOSURE. WYE STRAINER.
C	HYDRO POINT WTPRO3-C-H2O96-SWM 18-GAUGE, STAINLESS STEEL, WALL MOUNT ENCLOSURE W/ KEY-LOCK ENTRY. STATION VALVE DECODERS NOT INCLUDED.
FS	HYDRO POINT WTFLOWHD-P-400 4" PVC, HIGH-DEFINITION FLOW SENSOR AND SUB-METER FOR 4IN. MAINLINES.
BP	RAIN BIRD LOW PROFILE PUMP STATION 0.5 TO 10 HP, UP TO 120 PSI, UP TO 235 GPM. CHOOSE THE LOW PROFILE PUMP STATION FOR SMALL TO MIDSIZE BOOST, FLOODED SUCTION, AND SUCTION LIFT APPLICATIONS. USE 4" ADAPTERS TO FIT TO MAINLINE.
POC	POINT OF CONNECTION 4"
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40

Scale: 1" = 20'-0"

0 10 20 40 60

CONSTRUCTION DOCUMENTS

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8719 S. Sandy Parkway
Sandy, UT 84070
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RIDGELINE PARK | PHASE 1

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REVISIONS

NO.	yy/mm/dd	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044301
Licensed Landscape Architect

12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

IRRIGATION PLAN

Drawing number

LI105

IRRIGATION NOTES

1. THIS DRAWING IS DIAGRAMMATIC AND IS INTENDED TO CONVEY THE GENERAL LAYOUT OF IRRIGATION SYSTEM COMPONENTS. ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE. LOCATE MAINLINE AND VALVES NEAR WALKS WHERE FEASIBLE.

2. THE CONTRACTOR SHALL VERIFY THE AVAILABLE WATER PRESSURE AT THE SITE PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES BETWEEN THE WATER PRESSURE SHOWN ON THE DRAWINGS AND ACTUAL PRESSURE READINGS AT THE POINT OF CONNECTION TO THE LANDSCAPE ARCHITECT. WATER PRESSURE AT THE POINT OF CONNECTION IS EXPECTED TO BE A MINIMUM OF **60-65** PSI. IN THE EVENT THAT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL STRUCTURES, SITE IMPROVEMENTS, WALKS, UTILITIES, AND GRADE CHANGES. COORDINATE LAYOUT OF THE IRRIGATION SYSTEM WITH OTHER TRADES SO THAT CONSTRUCTION CAN CONTINUE IN A NORMAL SEQUENCE OF EVENTS. ADJUSTMENTS MAY BE NECESSARY TO MAINTAIN FULL COVERAGE DEPENDING ON ACTUAL SITE CONDITIONS. ANY SIGNIFICANT CHANGES WILL REQUIRE WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO PLACEMENT. ALL MODIFICATIONS SHALL BE RECORDED ON 'AS-BUILT' DRAWINGS.

4. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM WHEN IT IS APPARENT IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADING DIFFERENCES MAY NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

5. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT SITE CONDITIONS AND EXISTING IRRIGATION SYSTEM (IF ANY). IN THE EVENT THAT THE CONTRACTOR DAMAGES, DISPLACES OR OTHERWISE CAUSES OTHER TRADES WORK TO BE REINSTALLED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ORIGINAL CONDITION AT HIS OWN EXPENSE.

6. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM PERFORMANCE. INSTALL HEADS WITH THE APPROPRIATE ARC AND RADIUS FOR THE AREA TO BE COVERED. ADJUST NOZZLES TO ELIMINATE OVERSPRAY ONTO WALKS, BUILDINGS, ETC.

7. IRRIGATION CONTROLLER(S) SHALL BE GROUNDED PER ESTABLISHED ASIC GUIDELINES.

8. IRRIGATION CONTROL WIRES SHALL BE COLOR CODED WIRE FOR DIRECT BURIAL. COMMON, HOT, & SPARE WIRES SHALL BE 14 AWG (WHITE, RED & YELLOW RESPECTIVELY). FOR CONTROL WIRE RUNS EXCEEDING 3000 FEET OR COMMON WIRE RUNS EXCEEDING 1500 FEET, USE 12 AWG WIRE. CONTRACTOR SHALL RUN 1 DEDICATED SPARE WIRE 'HOMERUN' FROM CONTROLLER TO TERMINUS OF EACH WIRE LEG. WHERE REQUIRED, COMMUNICATION WIRE TO FLOW SENSOR SHALL BE PAIGE ELECTRIC PE-39-3 CABLE. ALL WIRE SPLICES TO BE LOCATED IN VALVE BOX. ALL WIRE CONNECTIONS SHALL BE 3M DBRY.

9. ALL MAINLINES, LATERAL LINES, AND CONTROL WIRES UNDER PAVING SHALL BE INSTALLED IN SEPARATE SLEEVES.

10. ALL MAINLINE AND LATERAL LINE PIPE SHALL BE SCHEDULE 40 PVC THROUGH 3" PIPE. 4" TO 6" PIPE SHALL BE CLASS 200 PVC. ALL LATERAL LINE FITTINGS SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE NOTED. ALL MAINLINE FITTINGS UNDER 3" SHALL BE SCHEDULE 80 PVC. MAINLINE FITTINGS 3" AND LARGER SHALL BE HARCO DUCTILE IRON, RESTRAIN PER MANUFACTURER'S RECOMMENDATIONS.

11. CONTRACTOR SHALL USE WELD-ON P-70 PRIMER AND 711 LOW VOC CEMENT FOR ALL SOLVENT WELDED JOINTS.

12. ALL LINES SHALL SLOPE TO DRAIN. ADD MANUAL DRAINS AT ALL MAINLINE LOW POINTS AS NECESSARY FOR COMPLETE DRAINAGE OF THE ENTIRE SYSTEM. INDICATE ALL DRAIN LOCATIONS ON 'AS-BUILT' DRAWINGS.

13. ALL VALVE BOXES AND LIDS IN BARK AND ROCK MULCH AREAS ARE TO BE TAN IN COLOR. VALVE BOXES IN LAWN AREAS ARE TO BE STANDARD GREEN. ALIGN VALVE BOXES PARALLEL WITH EDGE OF PAVEMENT/PLANTING BEDS. WHERE FEASIBLE, LOCATE THE EDGE OF VALVE BOX 12"-18" FROM EDGE OF PAVEMENT.

14. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE. HEADS SHALL BE LOCATED 1" AWAY FROM AND 1/4" BELOW ADJACENT CURBS, WALLS, WALKS, AND MOWSTRIPS.

15. DRIP DISTRIBUTION TUBING TO BE BURIED BELOW MULCH AND STAKED AT MIN. 6' O.C. DRIP FITTINGS SHALL BE BARBED INSERT TYPE FITTINGS, COMPRESSION TYPE FITTINGS WILL NOT BE ACCEPTED. EMITTERS SHALL BE LOCATED ON UPHILL SIDE OF PLANTS. INSTALL DRIP FLUSH VALVE AT LOW POINT OF EACH DRIP ZONE AND AT THE END DRIP LINES.

16. GUARANTEE: ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE AGAINST ALL DEFECTS IN MATERIAL, EQUIPMENT, AND WORKMANSHIP. GUARANTEE SHALL COVER REPAIR OF DAMAGE TO ANY PART OF THE PREMISES RESULTING FROM LEAKS OR OTHER DEFECTS IN MATERIAL, EQUIPMENT, OR WORKMANSHIP TO THE SATISFACTION OF THE OWNER. REPAIRS, IF REQUIRED, SHALL BE DONE PROMPTLY AND AT NO ADDITIONAL COST TO THE OWNER.

17. SEE DETAILS FOR ADDITIONAL INFORMATION. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

18. IRRIGATION SYSTEM SHALL BE DESIGNED TO WORK WITHIN THE ACCEPTABLE WATER WINDOW FROM 11 PM TO 6 AM.

19. ALL VALVES SHALL HAVE 24" OF COILED WIRE.

SUPPLEMENTAL 2-WIRE IRRIGATION NOTES

DECODERS:
1. ALL VALVES SHALL BE CONNECTED TO SYSTEM VIA DECODERS.

2. CONTRACTOR SHALL LAY OUT DECODERS AS REQUIRED BY SYSTEM. NO TWO VALVES ARE TO SHARE THE SAME ADDRESS, ALL VALVES MUST BE WITHIN 10' OF THE DECODER TO WHICH THEY ARE CONNECTED.

3. MASTER VALVE TO BE CONNECTED VIA SINGLE STATION DECODER. FLOW SENSOR TO BE CONNECTED VIA SENSOR DECODER.

4. DECODERS SHALL BE MOUNTED BY BRACKET TO INSIDE WALL OF VALVE BOX WITH DECODER ID ORIENTED TOWARD THE TOP OF VALVE BOX.

MODELS:
1 VALVE - HUNTER ICD-100 (INCLUDES BUILT-IN SURGE PROTECTOR)
SENSOR - HUNTER ICD-SEN

SURGE PROTECTION AND GROUNDING:
1. SURGE PROTECTION AND GROUNDING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AT A MINIMUM OF EVERY 1000' OR 12 DECODERS, WHICHEVER IS SHORTER. ADDITIONALLY, SURGE PROTECTION AND GROUNDING IS TO BE INSTALLED ALONG THE 2-WIRE PATH AT THE CONTROLLER AND AT THE END OF EACH 2-WIRE SPUR LONGER THAN 50'.

2. WHERE POSSIBLE, GROUNDING TO BE INSTALLED AT RIGHT ANGLES FROM THE 2-WIRE PATH.

3. SEE DETAILS FOR GROUNDING ROD DETAIL. ALL GROUNDING RODS SHALL ALLOW FOR 10 OHMS OF RESISTANCE OR LESS.

WIRE:
1. INSTALL 2-WIRE PATH IN 1" CONDUIT.

2. WIRE FROM CONTROLLER TO DECODERS SHALL BE HUNTER ID TWISTED WIRE PER MANUFACTURER'S RECOMMENDATIONS. SUPPLEMENTAL WIRE RUNS FROM DECODER TO VALVE(S) (NOT TO EXCEED 10' IN LENGTH) SHALL BE 14 AWG DIRECT BURIAL WIRE. WIRE CONNECTIONS AND SPLICES SHALL BE MADE WITH 3M DBRY-6 CONNECTORS.

3. FOR TROUBLESHOOTING PURPOSES, A STAR CONFIGURATION IS TO BE USED FOR WIRING AS OPPOSED TO A LOOPED CONFIGURATION.

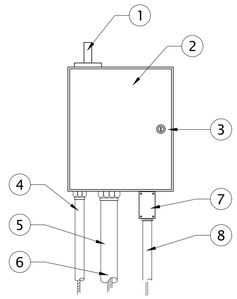
4. 3M DECODER CABLE FUSE DEVICE (DCFD) TO BE INSTALLED AT ALL SPLITS IN THE 2-WIRE PATH WHERE MORE THAN TWO RUNS OF COME TOGETHER. INSTALL DCRD AND EXTRA CABLE IN STANDARD SIZE VALVE BOX.

5. EACH 2-WIRE BRANCH IS TO BE EITHER A DIFFERENT COLOR OF WIRE, OR MARKED WITH COLORED TAPE AT ALL SPLICES FOR TROUBLESHOOTING PURPOSES.

5. 3' OF EXTRA CABLE LENGTH TO BE INSTALLED AT ALL SPLICES.

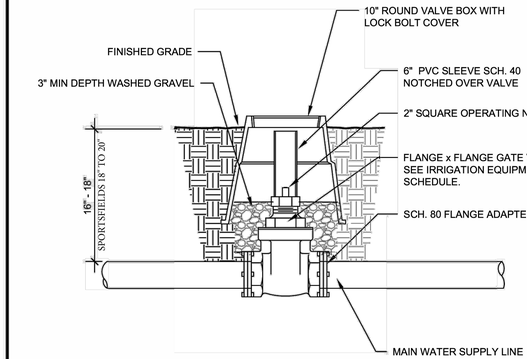
CONDUIT:
1. ALL ID WIRE TO BE INSTALLED IN 3/4" GRAY CONDUIT WITH SWEEPS.

2. ALL CONDUIT/WIRE SPLICES TO BE INSTALLED IN STANDARD SIZE VALVE BOX WITH EXTRA CABLE AS NOTED IN WIRE SECTION.



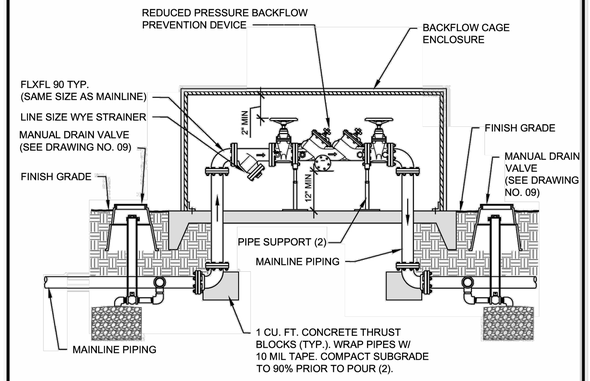
1. ANTENNA
2. IRRIGATION CONTROLLER
3. CENTER OF CONTROLLER TO BE +/- 5'-3" FROM FINISH GRADE
4. #6 COPPER GROUND WIRE IN GALVANIZED IMC CONDUIT. CONNECT TO EXTERIOR MOUNTED EARTH GROUND OR BUILDING GROUND.
5. 2 1/2" GALVANIZED IMC CONDUIT AND FITTINGS
6. LOW VOLTAGE CONTROL WIRING FROM AUTOMATIC CONTROLLER TO ELECTRIC CONTROL VALVES.
7. POWER JUNCTION BOX
8. 1/2" GALVANIZED IMC ELECTRICAL CONDUIT AND FITTING TO POWER SUPPLY

1 CONTROLLER WITH WALL MOUNT
NOT TO SCALE



ISOLATION GATE VALVE
NOT TO SCALE

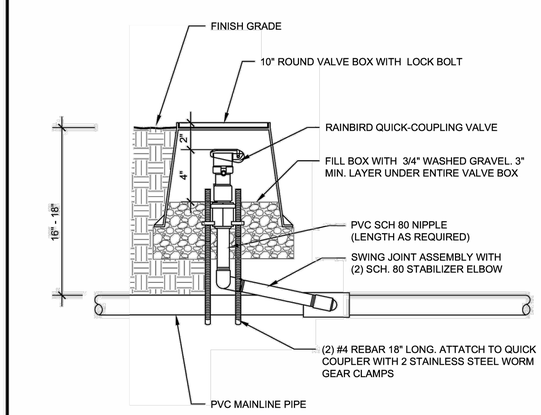
Irrigation Details
Isolation Gate Valve
Drawing No. 03
Rev. No. 0



NOTES:
1. SEE APPROVED MATERIALS LIST.
2. INSTALL BACKFLOW PREVENTER PER MANUFACTURERS SPECIFICATIONS.
3. ALL BURIED BOLTS SHALL BE STAINLESS STEEL.
4. ALL BACKFLOW PREVENTERS ARE TO MEET CURRENT JURISDICTIONAL CODES.
5. INSTALL BACKFLOW PREVENTER IN SHRUB BEDS WHERE POSSIBLE.
6. PROVIDE WINTERIZATION OF THE MAINLINE BACKFLOW AS REQUIRED WITH THE MANUAL DRAIN FOR COMPRESSED AIR.

BACKFLOW PREVENTER
NOT TO SCALE

Irrigation Details
Backflow Preventer
Drawing No. 01
Rev. No. 0



NOTES:
1) INSTALL ONE QUICK COUPLER AT EACH VALVE MANIFOLD CLUSTER GREATER THAN 100 FEET APART.
2) INSTALL ONE QUICK COUPLER IMMEDIATELY DOWN LINE OF THE BACKFLOW PREVENTION DEVICE FOR WINTERIZATION PURPOSES.

QUICK COUPLER
NOT TO SCALE

Irrigation Details
Quick Coupler
Drawing No. 07
Rev. No. 0

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	PSI	PSI @ POC	PRECIP
1	Hunter ICZ-101-40	1"	Drip Ring	0.84	15	18.0	34.2	0.41 in/h
2	Hunter ICZ-101-40	1"	Drip Ring	1.45	15	18.1	31.5	0.41 in/h
3	Hunter ICZ-101-40	1"	Area for Drip Emitters	5.61	10	15.7	28.6	0.18 in/h
4	Hunter ICV-G	1-1/2"	Shrub Rotary	24.81	40	44.9	62.6	0.33 in/h
5	Hunter ICZ-101-40	1"	Drip Ring	0.96	15	18.0	37.9	0.41 in/h
6	Hunter ICZ-101-40	1"	Drip Ring	2.17	15	18.3	38.2	0.41 in/h
7	Hunter ICZ-101-40	1"	Area for Drip Emitters	1.71	10	13.3	37.8	0.34 in/h
8	Hunter ICZ-101-40	1"	Drip Ring	0.72	15	18.0	42.6	0.41 in/h
9	Hunter ICV-G	2"	Turf Rotor	58.05	45	49.7	74.5	0.89 in/h
10	Hunter ICV-G	1"	Turf Spray	15.24	30	34.0	58.8	1.32 in/h
11	Hunter ICV-G	1-1/2"	Turf Rotor	28.32	45	48.6	73.5	1.01 in/h
12	Hunter ICV-G	1-1/2"	Turf Rotor	46.56	45	51.0	78.0	0.74 in/h
13	Hunter ICV-G	2"	Turf Rotor	65.34	45	51.2	78.2	0.96 in/h
14	Hunter ICV-G	2"	Turf Rotor	64.81	45	51.0	77.8	1.08 in/h
15	Hunter ICV-G	1-1/2"	Turf Spray	44.44	30	34.7	61.5	1.77 in/h
16	Hunter ICV-G	2"	Turf Spray	57.04	30	34.5	61.1	2.03 in/h
17	Hunter ICV-G	1-1/2"	Turf Spray	23.9	30	33.7	60.1	1.75 in/h
18	Hunter ICV-G	1"	Turf Rotary	12.88	40	44.7	71.0	1.11 in/h
19	Hunter ICV-G	1-1/2"	Turf Rotary	46.01	40	45.8	72.1	0.54 in/h
20	Hunter ICV-G	1"	Shrub Rotary	17.04	40	46.3	72.4	0.34 in/h
21	Hunter ICV-G	1-1/2"	Shrub Rotor	23.23	45	48.8	75.8	0.83 in/h
22	Hunter ICV-G	1-1/2"	Turf Rotor	47.78	45	50.2	77.1	0.84 in/h
23	Hunter ICV-G	1-1/2"	Turf Rotor	22.6	45	48.4	75.2	0.94 in/h
24	Hunter ICV-G	1"	Turf Spray	8.67	30	33.2	59.6	1.34 in/h
25	Hunter ICZ-101-40	1"	Drip Ring	0.72	15	18.0	44.3	0.41 in/h
26	Hunter ICV-G	1"	Turf Spray	10.06	30	33.4	59.0	1.6 in/h
27	Hunter ICZ-101-40	1"	Area for Drip Emitters	5.02	10	15.8	41.1	0.07 in/h
28	Hunter ICV-G	1"	Turf Rotor	21.18	45	51.5	76.7	0.76 in/h
29	Hunter ICV-G	1-1/2"	Turf Rotor	33.32	45	50.1	75.1	0.82 in/h
30	Hunter ICV-G	1-1/2"	Shrub Rotary	37.63	40	45.1	69.4	0.4 in/h
31	Hunter ICZ-101-40	1"	Drip Ring	2.05	15	18.1	41.2	0.41 in/h
32	Hunter ICV-G	1"	Shrub Rotary	17.78	40	46.6	68.3	0.83 in/h
33	Hunter ICZ-101-40	1"	Area for Drip Emitters	2.11	10	13.1	34.7	0.28 in/h
34	Hunter ICV-G	1"	Shrub Rotary	20.79	40	47.4	68.5	0.27 in/h

CRITICAL ANALYSIS

Generated:	2023-09-25 23:08
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Point of Connection Size:	4"
Flow Available	293.82 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65 PSI
Booster Pump pressure provided:	20 PSI
Pressure Available:	85 PSI
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	195 GPM
Flow Available at POC:	293.82 GPM
Residual Flow Available:	98.82 GPM
Critical Station:	13
Design Pressure:	45 PSI
Friction Loss:	3.86 PSI
Fittings Loss:	0.39 PSI
Elevation Loss:	0 PSI
Loss through Valve:	1.95 PSI
Pressure Req. at Critical Station:	51.2 PSI
Loss for Fittings:	1.37 PSI
Loss for Main Line:	13.7 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	9.55 PSI
Loss for Master Valve:	2.37 PSI
Critical Station Pressure at POC:	78.2 PSI
Pressure Available:	85 PSI
Residual Pressure Available:	6.81 PSI

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RIDGELINE PARK | PHASE 1
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NIBLEY, UT 84321

CONSTRUCTION DOCUMENTS

REVISIONS

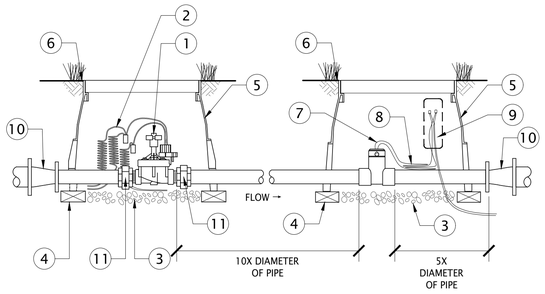
NO.	(y/m/d/by)	DESCRIPTION

Stamp
STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title
IRRIGATION SCHEDULE AND DETAILS

Drawing number
LI501

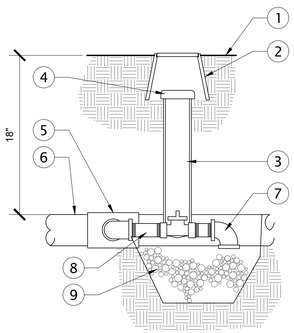


1. MASTER VALVE - INSTALL UNIONS ON EACH SIDE (THREADED MODELS)
2. 24" LENGTH OF COILED WIRE
3. 3" MIN. DEPTH WASHED GRAVEL
4. BRICK (4 PER BOX)
5. STANDARD SIZE VALVE BOX
6. FINISH GRADE
7. FLOW SENSOR
8. 24" LENGTH OF COILED COMMUNICATION CABLE
9. COMMUNICATION CABLE SPLICE PER MANUFACTURER'S RECOMMENDATIONS
10. CONCENTRIC REDUCER (WHERE REQUIRED FOR TRANSITION BETWEEN PIPE SIZES)
11. PVC UNION (SIZED TO MAIN LINE, SEE PLANS)

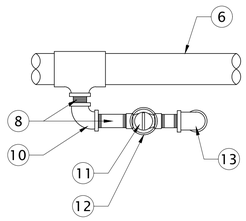
NOTE:
1. ALL IRRIGATION CONTROL WIRE SPICES ARE TO BE MADE USING 3M DBR-Y SPLICE.
2. ALL VALVE BOXES AND LIDS IN BARK AND ROCK MULCH AREAS ARE TO BE TAN IN COLOR. VALVE BOXES IN LAWN AREAS TO BE STANDARD GREEN.

1 MASTER VALVE/FLOW SENSOR

NOT TO SCALE



SIDE VIEW

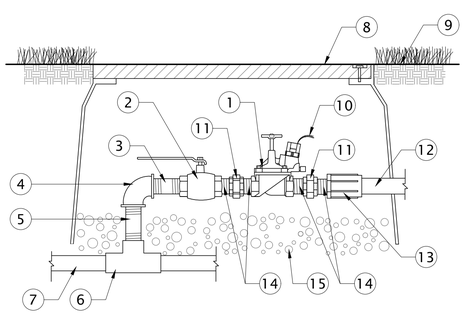


TOP VIEW

1. FINISH GRADE
2. ROUND VALVE BOX
3. 2" CLASS 200 PVC SLEEVE
4. CAP
5. TEE IN MAIN LINE
6. MAIN LINE
7. MARLEX STREET ELL
8. 3/4" SCH. 80 PVC THREADED NIPPLE AND ELBOW
9. 1 CU. FT. PEA GRAVEL SUMP
10. 3/4" ELBOW
11. MANUAL DRAIN
12. 2" CLASS 200 PVC SLEEVE
13. MARLEX STREET ELL

3 MANUAL DRAIN VALVE

NOT TO SCALE

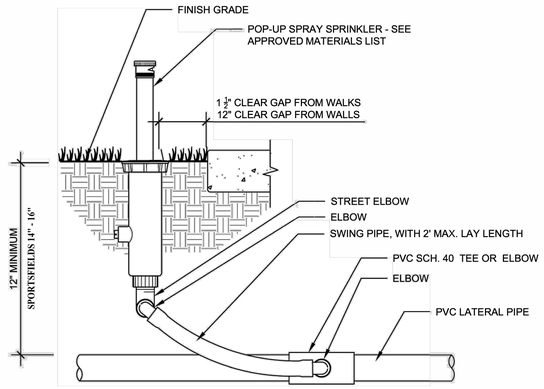


1. AUTOMATIC CONTROL VALVE SEE LEGEND SHEET FOR TYPE.
2. BRONZE BALL VALVE (SIZE SAME AS LINE SIZE)
3. SCH. 80 PVC THREADED NIPPLE
4. SCH. 80 PVC THREADED ELL
5. SCH. 80 PVC THREADED NIPPLE
6. PVC MAINLINE TEE (SXSXT)
7. MAINLINE (SIZE AS NOTED ON THE PLAN)
8. VALVE BOX, SIZE AS REQUIRED
9. FINISH GRADE
10. SLACK WIRE AT ALL CONNECTIONS PROVIDE 12" OF EXPANSION LOOP INSIDE VALVE BOX.
11. SCHEDULE 80 PVC UNION
12. LATERAL LINE TO HEADS
13. PVC ADAPTOR TYP.
14. SCHEDULE 80 PVC CLOSE NIPPLE ON BOTH SIDES OF UNION
15. GRAVEL LAYER (12" MIN. DEPTH)

NOTES:
1. ALL IRRIGATION CONTROL WIRE SPLICES ARE TO BE MADE USING 3M DBR-Y SPLICE.
2. ALL VALVE BOXES AND LIDS IN BARK AND ROCK MULCH AREAS ARE TO BE TAN IN COLOR. VALVE BOXES IN LAWN AREAS TO BE STANDARD GREEN.

4 IRRIGATION CONTROL VALVE W/ BALL VALVE

NOT TO SCALE

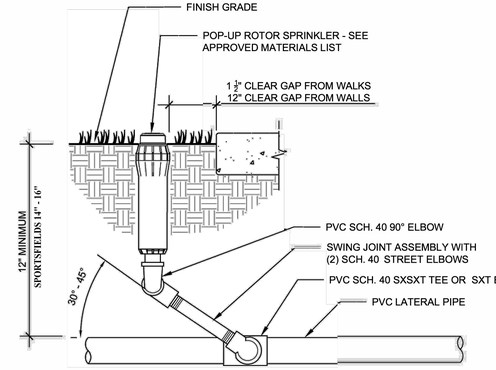


NOTES:
1) REFER TO APPROVED MATERIALS LIST FOR MANUFACTURER, MODEL, ETC.

POP-UP SPRAY SPRINKLER

NOT TO SCALE

Irrigation Details
Popup Spray Sprinkler
Drawing No. 10
Rev. No. 0



NOTES:
1) SWING JOINT ASSEMBLY AND CONNECTIONS SHALL MATCH FLOW RATE OF SPRINKLER.
2) REFER TO APPROVED MATERIALS LIST FOR MANUFACTURER MODEL, ETC.

POP-UP GEAR DRIVE ROTOR

NOT TO SCALE

Irrigation Details
Popup Rotor Sprinkler
Drawing No. 11
Rev. No. 0

CONSTRUCTION DOCUMENTS

blu line designs
planning | landscape architecture | design
8719 S. Sandy Parkway
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RIDGELINE PARK | PHASE 1

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NIBLEY, UT 84321

REVISIONS

NO.	(c)mm/dd/yy	DESCRIPTION

Stamp

STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title

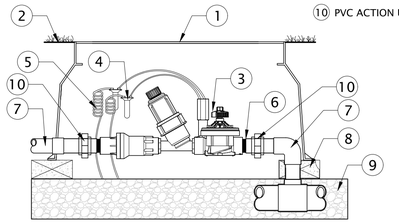
IRRIGATION DETAILS

Drawing number

LI502

NOTE:
1. ALL IRRIGATION CONTROL WIRE SPLICES ARE TO BE MADE USING 3M DBR-Y SPLICE.
2. ALL VALVE BOXES AND LIDS TO MATCH COLOR OF MULCH AREAS. VALVE BOXES AND LIDS IN LAWN AREAS TO BE STANDARD GREEN.

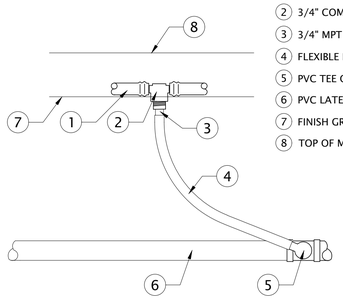
1. JUMBO VALVE BOX
2. FINISH GRADE
3. DRIP ZONE KIT
4. WATER PROOF CONNECTORS (2)
5. 24" COILED WIRE
6. SCHEDULE 80 T.O.E. NIPPLE
7. MAINLINE PIPE AND FITTING
8. BRICK SUPPORTS (4)
9. 3/4" MINUS WASHED GRAVEL
10. PVC ACTION UNIONS (2)



1 DRIP CONTROL VALVE ASSEMBLY (HUNTER)

NOT TO SCALE

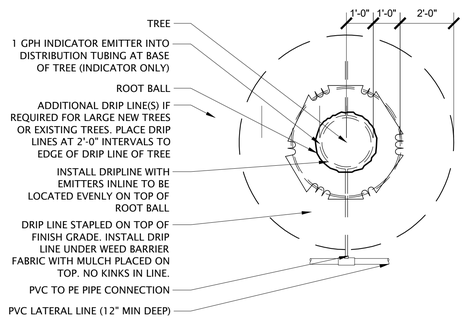
1. DRIP TUBING
2. 3/4" COMBINATION TEE
3. 3/4" MPT ADAPTER
4. FLEXIBLE POLY TUBING
5. PVC TEE OR ELBOW WITH 3/4" MPT ELBOW
6. PVC LATERAL LINE
7. FINISH GRADE
8. TOP OF MULCH



NOTES:
1. INSTALL A MINIMUM OF ONE PVC TO DRIP TUBING CONNECTION FOR EVERY 5 GPM OF FLOW.
2. CONSULT MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM RUN LENGTH.

2 PVC TO DRIP TUBING CONNECTION

NOT TO SCALE



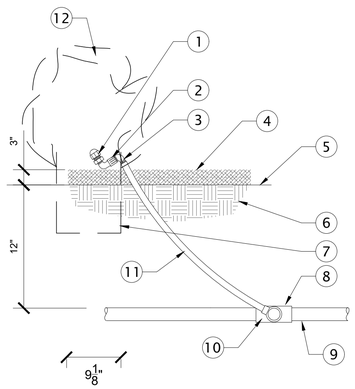
NOTE:
1. FOR EVERGREEN TREES. LOCATE INDICATOR EMITTERS ON OUTSIDE OF OUTER DRIP RING.
2. ALL FITTINGS TO INLINE DRIP TUBING TO BE COMPRESSION FITTINGS. IF MALE INSERTS ARE NEEDED, INSTALL WITH OETIKER CLAMPS.

3 TREE DRIP - PLAN VIEW (PLANTER AREAS)

NOT TO SCALE P-22-209-45

NOTE: LOCATE EMITTER ON BLDG OR FENCE SIDE OF PLANT.

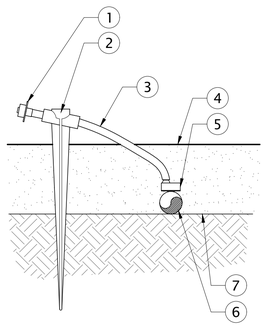
1. DRIP EMITTER WITH FPT BASE 6" MAX. FROM PLANT TRUNK. BOTTOM OF EMITTER TO BE FLUSH WITH TOP OF MULCH
2. 1/2" MARLEX STEEL EL
3. 1/2" 90 EL BARBED FITTING
4. MULCH LAYER
5. FINISH GRADE
6. TOP SOIL
7. ROOTBALL
8. PVC TEE
9. PVC LATERAL LINE
10. 90 DEGREE ELL BARBED INSERT FITTING
11. LINEAR LOW DENSITY POLYETHYLENE PIPE 14" LONG MIN. 48" LONG MAX.
12. PLANT



4 DRIP EMITTER PCT BUBBLER

NOT TO SCALE

1. DIFFUSER BUG CAP: RAIN BIRD DBC-025 (UNLESS OTHERWISE SPECIFIED)
2. UNIVERSAL 1/4" TUBING STAKE: RAIN BIRD TS-025
3. 1/4" DISTRIBUTION TUBING: RAIN BIRD XQ TUBING (LENGTH AS REQUIRED)
4. TOP OF MULCH
5. SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER: RAIN BIRD XERI-BUG EMITTER
6. 1/2" POLYETHYLENE TUBING: 2 RAIN BIRD XT-700 XERI-TUBE
7. FINISH GRADE



NOTES:
1. USE RAIN BIRD XERIMAN TOOL XM-TOOL TO INSERT EMITTER DIRECTLY INTO ½" POLYETHYLENE TUBING.

5 DRIP EMITTER

NOT TO SCALE

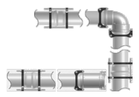
HARCO JOINT RESTRAINT
SELECTION GUIDE

Tables below list number of adjacent pipe joints to be restrained for basic fitting configurations. These were calculated using the joint restraint calculator available at www.harcofittings.com for a set of assumptions that will envelop many applications. Check that the assumptions listed below meet or exceed your application. If your situation is not covered by the assumptions or a more refined restraint scheme is desired, use the restraint calculator at www.harcofittings.com.

Bends, Reducers, Caps, and Valves

Size	Bends				Reductions			Dead Ends
	11¼	22½	45	90	1	2	3	
2	—	—	—	—	—	—	—	—
2½	—	—	—	—	—	—	—	1
3	—	—	—	—	—	—	1	1
4	—	—	—	—	—	1	1	2
6	—	—	—	1	1	2	2	3
8	—	—	—	1	1	3	3	4
10	—	—	—	1	1	2	3	4
12	—	—	—	1	2	2	3	4
14	—	—	—	1	1	2	3	4
16	—	—	—	2	1	2	3	5

Bends & Caps/Dead Ends: Restrain all bells and the adjacent joints listed in table (both directions for bends).

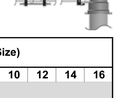


Reducers: Restrain large bell and adjacent joints listed in table.

Valves: Treat as Dead End. Use Valve Restraint and restrain adjacent upstream joints listed in table. If closed valve can have pressure from either side, restrain adjacent joints both sides per table.

Restraint Calculation Assumptions:
Maximum pressure: 125psi
Restrained Lengths: Each restraint connects 20' length of pipe
Soil Type: Type GM, gravel-sand-silt mixture
Minimum Burial Depths: 2"–2½", 18" cover; 3"–8", 24" cover; 10"–12", 30" cover; 14"-16", 36" cover
Trench Type: 3, pipe bedded in 4 inches minimum loose soil. Backfill lightly consolidated to top of the pipe.
Safety Factor: 1.5

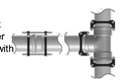
Tees - Branch bell only restrained: Use joint restraints ONLY on branch. Number below is number of 20' joints to be restrained with pipe to pipe restraints



Run Size	Tees (Branch Size)									
	2	2½	3	4	6	8	10	12	14	16
2										
2½										
3										
4	—									
6	—	1	1							
8	—	1	1							
10	—	—	1	1						
12	—	—	1	1						
14	—	—	1	1	1					
16	—	—	1	1	1					

Use chart below for more economical method

Tees - Branch bell only restrained: Use joint restraint on ALL three branches of tee. Number below is number of 20' joints to be restrained with pipe to pipe restraints in branch only direction



Run Size	Tees (Branch Size)									
	2	2½	3	4	6	8	10	12	14	16
2	—	—	—	1						
2½	—	—	—	—						
3	—	—	—	—						
4		—	—	—	—					
6				—	—	1	1			
8				—	—	—	—	2	2	3
10					—	—	—	1	1	2
12					—	—	—	—	1	2
14						—	—	—	—	1
16						—	—	—	—	1

Use Joint Restraint Calculator

Use chart above

Tees - With Run Reductions: Restrain all bells and adjacent branch joints noted. Treat run reduction as a reducer. Restrain as noted adjacent joints to large bell per reducer table.

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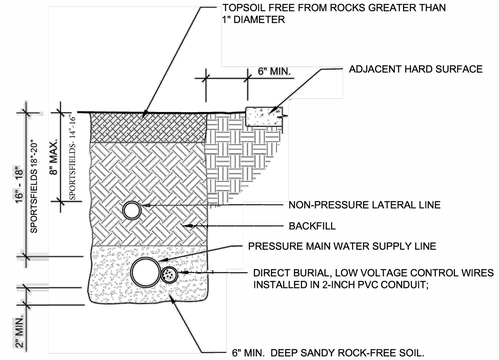
6 JOINT RESTRAINT GUIDE

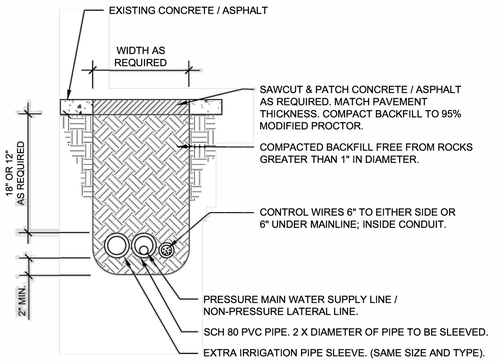
NOT TO SCALE P-22-209-54



IRRIGATION PIPE TRENCH

NOT TO SCALE

Irrigation Details
Irrigation Pipe Trench
Drawing No. 04
Rev. No. 0



IRRIGATION PIPE SLEEVE

NOT TO SCALE

Irrigation Details
Irrigation Pipe Sleeve
Drawing No. 06
Rev. No. 0

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REVISIONS

No.	comments	DESCRIPTION

Stamp
STATE OF UTAH
CORY A. SHUPE
No. 5410044-5301
Professional Landscape Architect
12/06/2023

Designed By:	RD
Drawn By:	TH
Date:	12/06/2023
Checked By:	CS
Project No:	22-209

Drawing Title
IRRIGATION DETAILS

Drawing number
LI503

CONSTRUCTION DOCUMENTS