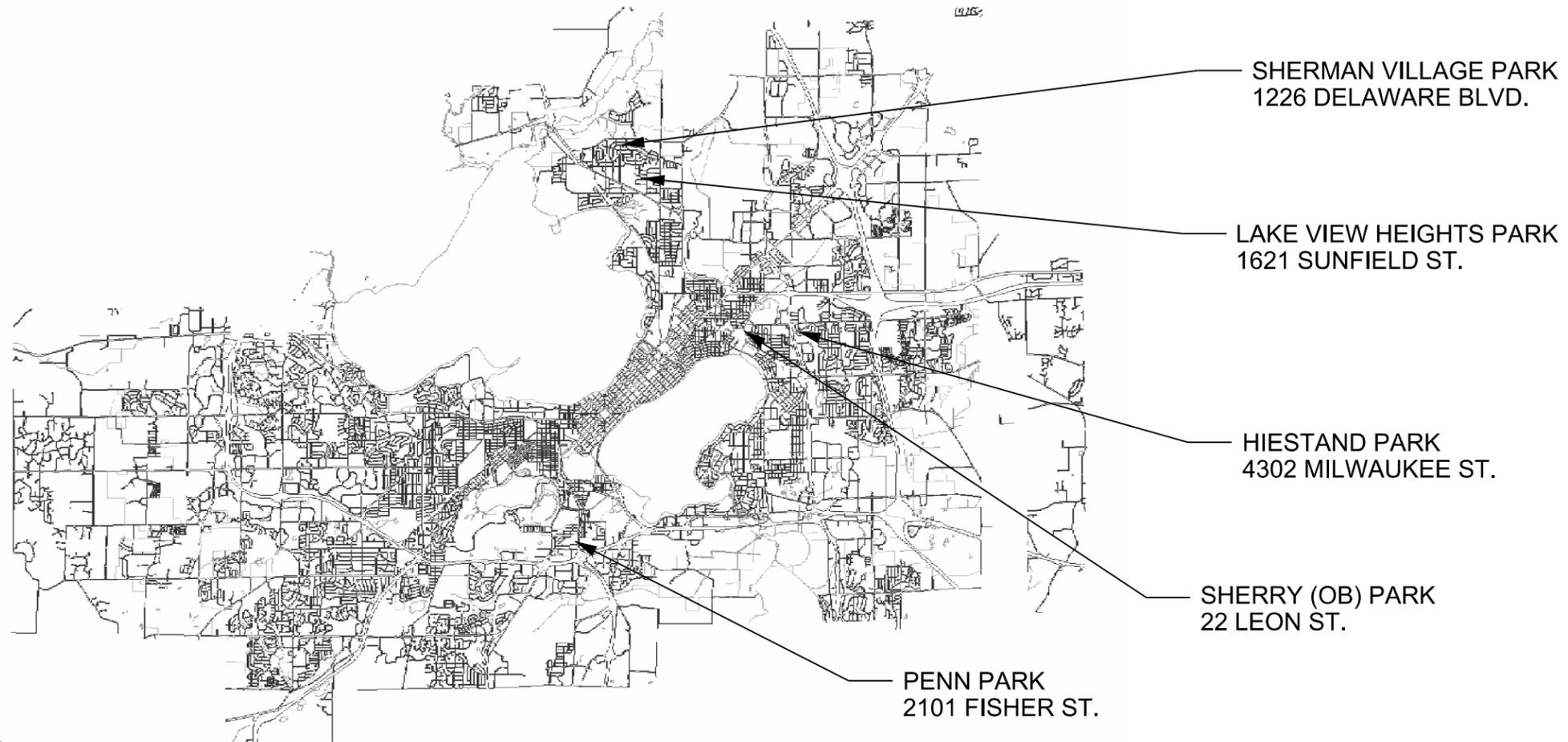


2019 PARK PLAYGROUND REPLACEMENTS - GROUP 2

CONTRACT 9398

MUNIS #: 17526 -51 -130, 17527 -51 -130, 17529 -51 -130, 17531 -51 -130, 17532 -51 -130



City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703



PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS-
 GROUP 2**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

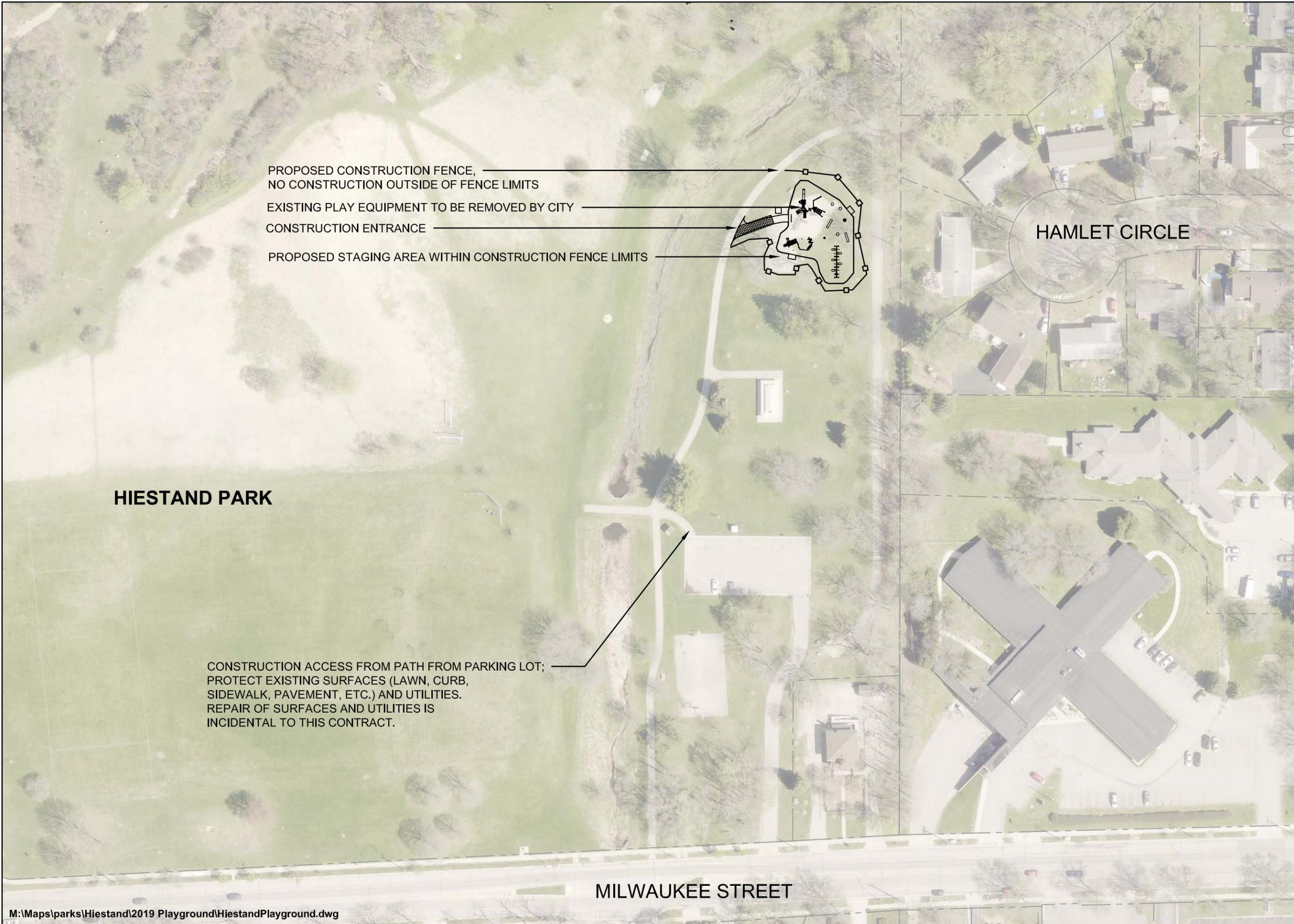
| ITEM | DATE |
|-------------------|------------|
| Advertised by: MS | 05-02-2019 |
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|--|--|--|
| 1.1 Hiestand Park- Project Location and Site Access | 3.1 Penn Park- Project Location and Site Access | 5.1 Sherry (OB) Park- Project Location and Site Access |
| 1.2 Hiestand Park- Demolition and Protection Plan | 3.2 Penn Park- Demolition and Protection Plan | 5.2 Sherry (OB) Park- Demolition and Protection Plan |
| 1.3 Hiestand Park- Site Plan | 3.3 Penn Park- Site Plan | 5.3 Sherry (OB) Park- Site Plan |
| 1.4 Hiestand Park- Grading and Erosion Control Plan | 3.4 Penn Park- Grading and Erosion Control Plan | 5.4 Sherry (OB) Park- Grading and Erosion Control Plan |
| 1.5 Hiestand Park- Drain Tile Schedules | 3.5 Penn Park- Drain Tile Schedules | 5.5 Sherry (OB) Park- Design Computations |
| 1.6 Hiestand Park- Design Computations | 3.6 Penn Park- Design Computations | |
| | | |
| 2.1 Lake View Heights Park- Project Location and Site Access | 4.1 Sherman Village Park- Project Location and Site Access | 6.1 Typical Playground Surfacing with Underdrain |
| 2.2 Lake View Heights Park- Demolition and Protection Plan | 4.2 Sherman Village Park- Demolition and Protection Plan | 6.2 Pavement Edge at Playground |
| 2.3 Lake View Heights Park- Site Plan | 4.3 Sherman Village Park- Site Plan | |
| 2.4 Lake View Heights Park- Grading and Erosion Control Plan | 4.4 Sherman Village Park- Grading and Erosion Control Plan | |
| 2.5 Lake View Heights Park- Drain Tile Schedules | 4.5 Sherman Village Park- Drain Tile Schedules | |
| 2.6 Lake View Heights Park- Design Computations | 4.6 Sherman Village Park- Design Computations | |

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:

SHEET NUMBER:



City of Madison
 Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703

play
**MADISON
 PARKS**

Graphical Scale
 0 100 ft

PROJECT:
*2019 PARK
 PLAYGROUND
 REPLACEMENTS
 - GROUP 2*

*HIESTAND PARK
 4302 MILWAUKEE ST
 MADISON, WI 53714*

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| ITEM | DATE |
|------------------|------------|
| Advised by: SC/L | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**PROJECT LOCATION
 AND SITE ACCESS**

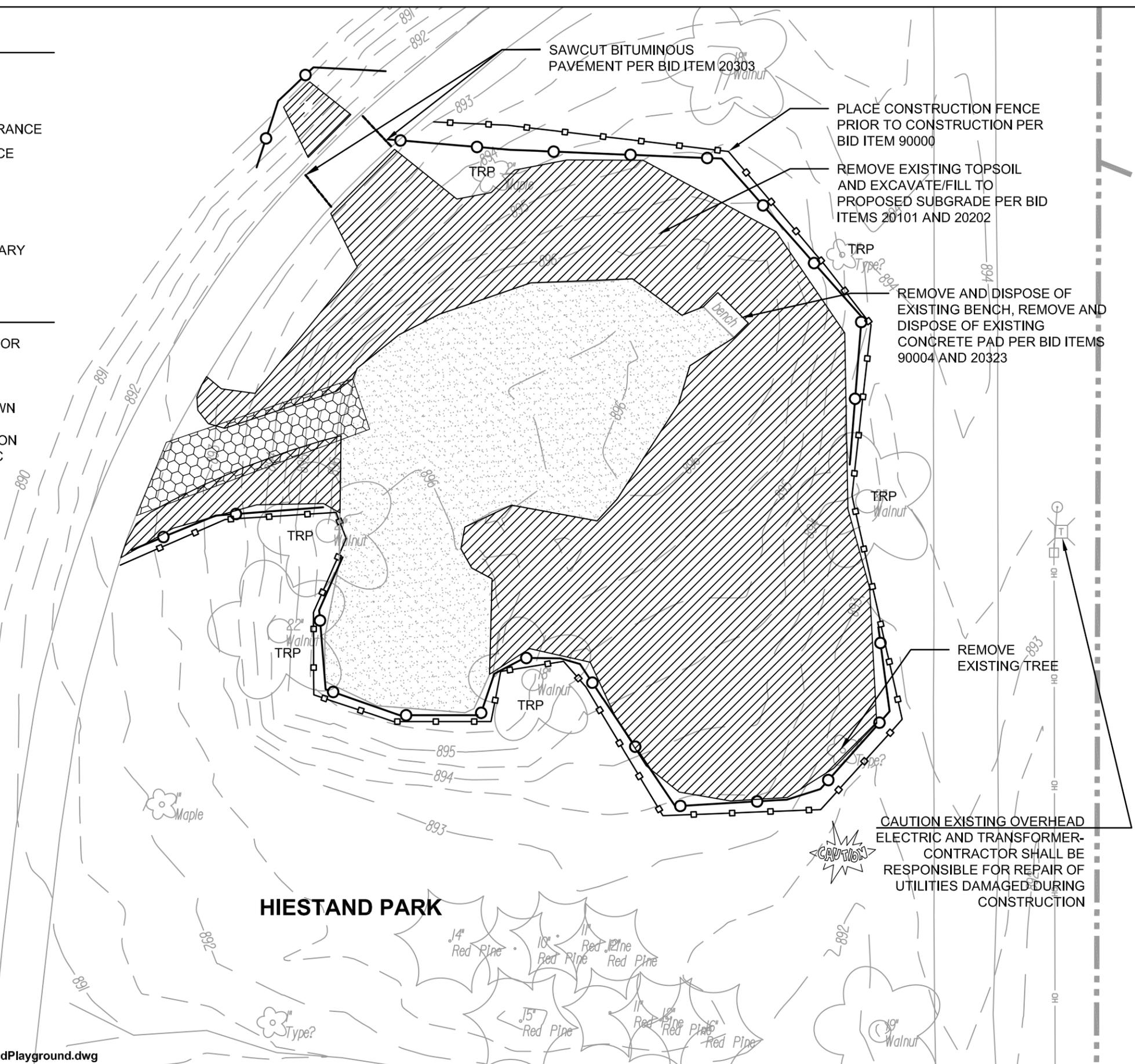
SHEET NUMBER:
1.1

LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. APPROX. PARK BOUNDARY
-  TRP TREE ROOT PROTECTION

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES SIDEWALK, CURB, LAWN PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



City of Madison
Department of Public Works
PARKS DIVISION

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Madison, WI 53703

play
**MADISON
PARKS**

Graphical Scale
0 20 ft 

PROJECT:
**2019 PARK
PLAYGROUND
REPLACEMENTS
- GROUP 2**

**HIESTAND PARK
4302 MILWAUKEE ST
MADISON, WI 53714**

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| ITEM | DATE |
|---------------------|------------|
| Advertised by: SC/L | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

SHEET NUMBER:
1.2

LEGEND

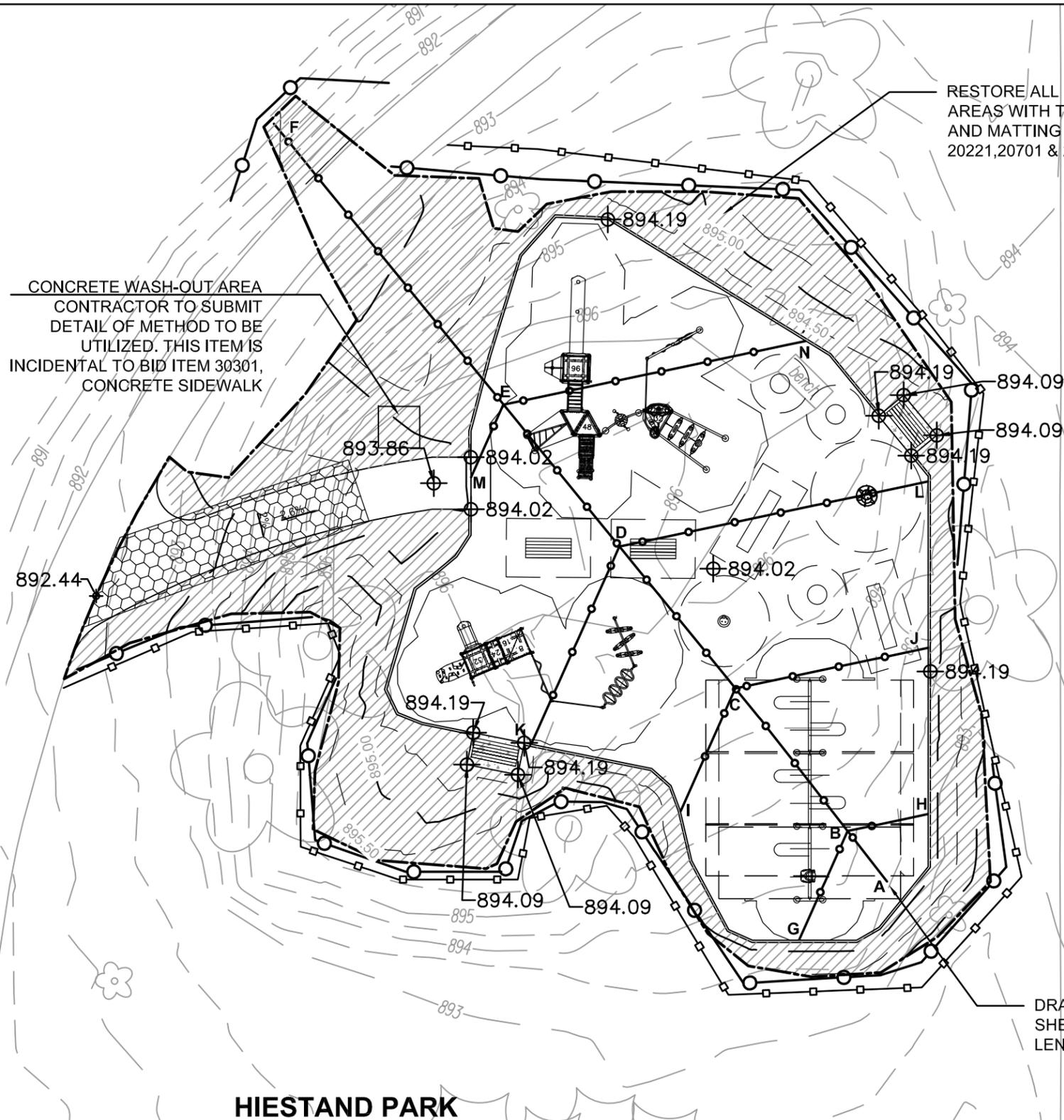
- ### ⊕ PRO. SPOT EL.
- ▭ PRO. ASPHALT
- ▭ PRO. CONCRETE
- ▨ PRO. EROSION MATTING
- ▭ PRO. WOOD MULCH
- ▨ PRO. CONSTRUCTION ENTRANCE
- PRO. GRADING EXTENTS
- PRO. DRAINTILE
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- - - PRO. CONTOUR (INDEX)
- - - PRO. CONTOUR (INTER)
- - - EX. CONTOUR (INDEX)
- - - EX. CONTOUR (INTER)
- · - · - EX. APPROX. PARK BOUNDARY

NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

CONCRETE WASH-OUT AREA
 CONTRACTOR TO SUBMIT
 DETAIL OF METHOD TO BE
 UTILIZED. THIS ITEM IS
 INCIDENTAL TO BID ITEM 30301,
 CONCRETE SIDEWALK

RESTORE ALL DISTURBED
 AREAS WITH TOPSOIL, SEED
 AND MATTING PER BID ITEMS
 20221,20701 & 21061



HIESTAND PARK

EDGE OF PLAYGROUND BORDER TIMBERS: 894.19
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 894.02
 PLAYGROUND SUBGRADE ELEVATION; 892.85
 ASPHALT AT PLAYGROUND ELEVATION: 894.02



PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS
 - GROUP 2**

**HIESTAND PARK
 4302 MILWAUKEE ST
 MADISON, WI 53714**

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| ITEM | DATE |
|------------------|------------|
| Advised by: SC/L | 05-02-2019 |

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**GRADING & EROSION
 CONTROL PLAN**

SHEET NUMBER:
1.4

Hiestand
 City of Madison Public Works Contract
 Date Revised: 4/11/2019

Notes:
 Positive volumes are cuts, negative volumes are fills.
 Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

| Sort | Grp | Material | Item | From Surface Model | To Surface Model | area (sq ft) | depth (ft) | Unfactored volume (cu ft) | Unfactored volume (cu yd) | Expansion Factor (%) | Factored (Uncompacted) Volume (cu yd) |
|------|-----------------------|---|---|--------------------|------------------|--------------|------------|---------------------------|---------------------------|----------------------|---------------------------------------|
| 1.1 | Grass to Asphalt | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 417 | 0.50 | 209 | 7.7 | 0% | 7.7 |
| 1.2 | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 417 | varies | 520 | 19.3 | 0% | 19.3 |
| 1.3 | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | llay | 417 | varies | 0 | 0.0 | 0% | 0.0 |
| 1.4 | Grass to Asphalt | Gravel Place | Place 9in depth gravel base out to 6in from pavement edge | n/a | n/a | 417 | -0.75 | -313 | -11.6 | 0% | -11.6 |
| 1.5 | Grass to Asphalt | Asphalt Place | Place 3in asphalt (does not include ramp into playground) | n/a | n/a | 369 | -0.25 | -92 | -3.4 | 0% | -3.4 |
| 1.6 | Grass to Asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 48 | -0.25 | -12 | -0.4 | 0% | -0.4 |
| 2.1 | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 2950 | 0.50 | 1475.00 | 54.6 | 0% | 54.6 |
| 2.2 | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 2950 | varies | 1413.42 | 52.3 | 0% | 52.3 |
| 2.3 | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 2950 | varies | -1030.53 | -38.2 | 0% | -38.2 |
| 2.4 | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 2950 | -0.50 | -1475.00 | -54.6 | 0% | -54.6 |
| 3.1 | Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 3980 | 0.50 | 1990 | 73.7 | 0% | 73.7 |
| 3.2 | Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 3980 | varies | 6739.00 | 249.6 | 0% | 249.6 |
| 3.3 | Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 3980 | varies | -17 | -0.6 | 0% | -0.6 |
| 3.4 | Grass to Play Surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 3980 | -1.00 | -3980 | -147.4 | 0% | -147.4 |
| 4.1 | Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 43 | 0.50 | 22 | 0.8 | 0% | 0.8 |
| 4.2 | Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-7in | 43 | varies | 59.64 | 2.2 | 0% | 2.2 |
| 4.3 | Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-7in | 43 | varies | 0 | 0.0 | 0% | 0.0 |
| 4.4 | Grass to Concrete | Gravel Place | Place 2" aggregate base | n/a | n/a | 43 | -0.16 | -7 | -0.3 | 0% | -0.3 |
| 4.4 | Grass to Concrete | Concrete Place | Place 5" concrete | n/a | n/a | 43 | -0.42 | -18 | -0.7 | 0% | -0.7 |
| 5.1 | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 78 | 0.50 | 39 | 1.4 | 0% | 1.4 |
| 5.2 | Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 78 | varies | 81 | 3.0 | 0% | 3.0 |
| 5.3 | Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 78 | varies | -6.00 | -0.2 | 0% | -0.2 |
| 5.4 | Grass to Timbers | Border Timbers Place (placeholder volume) | Border Timbers (placeholder volume to balance volume comps) | n/a | n/a | 78 | -1.00 | -78 | -2.9 | 0% | -2.9 |
| 6.1 | Play surface to grass | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 969 | 1.42 | 1376 | 51.0 | 0% | 51.0 |
| 6.2 | Play surface to grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-6in | 969 | varies | 284 | 10.5 | 0% | 10.5 |
| 6.3 | Play surface to grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 969 | varies | -271 | -10.0 | 0% | -10.0 |
| 6.4 | Play surface to grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 969 | -0.50 | -485 | -17.9 | 0% | -17.9 |
| 7.1 | to play surface | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 2061 | 1.42 | 2927 | 108.4 | 0% | 108.4 |
| 7.2 | Play surface to play | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 2061 | varies | 3316 | 122.8 | 0% | 122.8 |

| | | | | | | | | | | | |
|------|-------------------------|---|--|---------|----------|------|--------|--------|-------|----|-------|
| 7.3 | Play surface to play | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 2061 | varies | 0 | 0.0 | 0% | 0.0 |
| 7.4 | Play surface to play | Play Surface Place | Place 12in of play surface | n/a | n/a | 2061 | -1.00 | -2061 | -76.3 | 0% | -76.3 |
| 8.1 | Play surface to timbers | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 5 | 1.42 | 7 | 0.3 | 0% | 0.3 |
| 8.2 | Play surface to timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 5 | varies | 5 | 0.2 | 0% | 0.2 |
| 8.3 | Play surface to timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 5 | varies | 0 | 0.0 | 0% | 0.0 |
| 8.4 | Play surface to timbers | Border Timbers Place (placeholder volume) | Place 12inches of timbers | n/a | n/a | 5 | -1.00 | -5 | -0.2 | 0% | -0.2 |
| 9.1 | Play surface to asphalt | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 194 | 1.42 | 276.02 | 10.2 | 0% | 10.2 |
| 9.2 | Play surface to asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 194 | varies | 376.00 | 13.9 | 0% | 13.9 |
| 9.3 | Play surface to asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 194 | varies | 0.00 | 0.0 | 0% | 0.0 |
| 9.4 | Play surface to asphalt | Gravel Place | out to 6in from pavement edge | n/a | n/a | 194 | -0.75 | -146 | -5.4 | 0% | -5.4 |
| 9.5 | Play surface to asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 164 | -0.25 | -41 | -1.5 | 0% | -1.5 |
| 9.6 | Play surface to asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 30 | -0.25 | -8 | -0.3 | 0% | -0.3 |
| 10.1 | Adjust | Play Surface Place | Increase play surface by 1/2 of asphalt ramp gravel base | n/a | n/a | 20 | -0.29 | -6 | -0.2 | 0% | -0.2 |
| 10.2 | Adjust | Subsoil Excavate | 1/2 of asphalt ramp gravel base volume = 1/2 x (2.25 ft | n/a | n/a | 20 | 0.29 | 6 | 0.2 | 0% | 0.2 |

Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

| Row Labels | Sum of Factored (Uncompacted) Volume (cu yd) |
|---|--|
| Asphalt Place | -4.9 |
| Border Timbers Place (placeholder volume) | -3.1 |
| Play Surface Place | -224.0 |
| Subsoil Excavate | 474.1 |
| Subsoil Place | -49.0 |
| Topsoil Excavate | 138.3 |
| Topsoil Place | -73.3 |
| Concrete Place | -0.7 |
| Gravel Place | -17.2 |
| Pea Gravel Excavate | 169.8 |
| Grand Total | 410.0 |

Reorganized into bid table items

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|--|
| 20101 Excavation Cut | 612 | CY | = Subsoil Excavate + Topsoil Excavate |
| 20103 Excavation Cut - Pea Gravel | 170 | CY | = Pea Gravel Excavate |
| 20221 Topsoil | 439 | SY | = (Topsoil Place)/-.167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 | 34 | tons | = (Gravel Place) * -2 ton/cubic yard |
| 40201 HMA Pavement 3 LT 52-28 S | 10.7 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| 90003 Playground Surfacing - Wood Mulch | 246 | CY | = Play Surface Place * -1.10 |

City of Madison
 Department of Public Works
PARKS DIVISION
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 Madison, WI 53703

play
MADISON PARKS

PROJECT:
2019 PARK PLAYGROUND REPLACEMENTS - GROUP 2

HIESTAND PARK
4302 MILWAUKEE ST
MADISON, WI 53714

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ITEM _____ DATE _____
 Advertised by: SC/L 05-02-2019

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
1.6

SUNFIELD STREET

CONSTRUCTION ACCESS IS FROM SUNFIELD STREET ALONG PARK PATH. THE CONTRACTOR SHALL PROTECT EXISTING SURFACES (ASPHALT, CURB, LAWN, SIDEWALK, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

RIM=943.48
SW INV=936.18

RIM=943.64

City of Madison
Department of Public Works
PARKS DIVISION

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play
**MADISON
PARKS**

Graphical Scale

0 30 ft



PROJECT:
**2019 PARK
PLAYGROUND
REPLACEMENTS-
GROUP 2**

**LAKE VIEW HEIGHTS PARK
1621 SUNFIELD ST.
MADISON, WI 53704**

PROPOSED STAGING AREA
WITHIN CONSTRUCTION FENCE
LIMITS

PROPOSED CONSTRUCTION
FENCE, NO CONSTRUCTION
OUTSIDE OF FENCE LIMITS.

EXISTING PLAY EQUIPMENT SHALL BE
REMOVED BY CITY, EXISTING PEA GRAVEL
SURFACING SHALL BE REMOVED BY
CONTRACTOR.

UNDISTURBED
AREA

LAKE VIEW HEIGHTS PARK

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| ITEM | DATE |
|----------------|------------|
| Advised by: MS | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9383

SHEET TITLE:
**PROJECT LOCATION
AND SITE ACCESS**

SHEET NUMBER:
2.1

LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. ASPHALT
-  REMOVE EX. CONCRETE
-  PRO. CONSTRUCTION ENTRANCE
-  TREE ROOT PROTECTION
-  PRO. CONSTRUCTION FENCE
-  SAWCUT
-  PRO. SILT SOCK
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

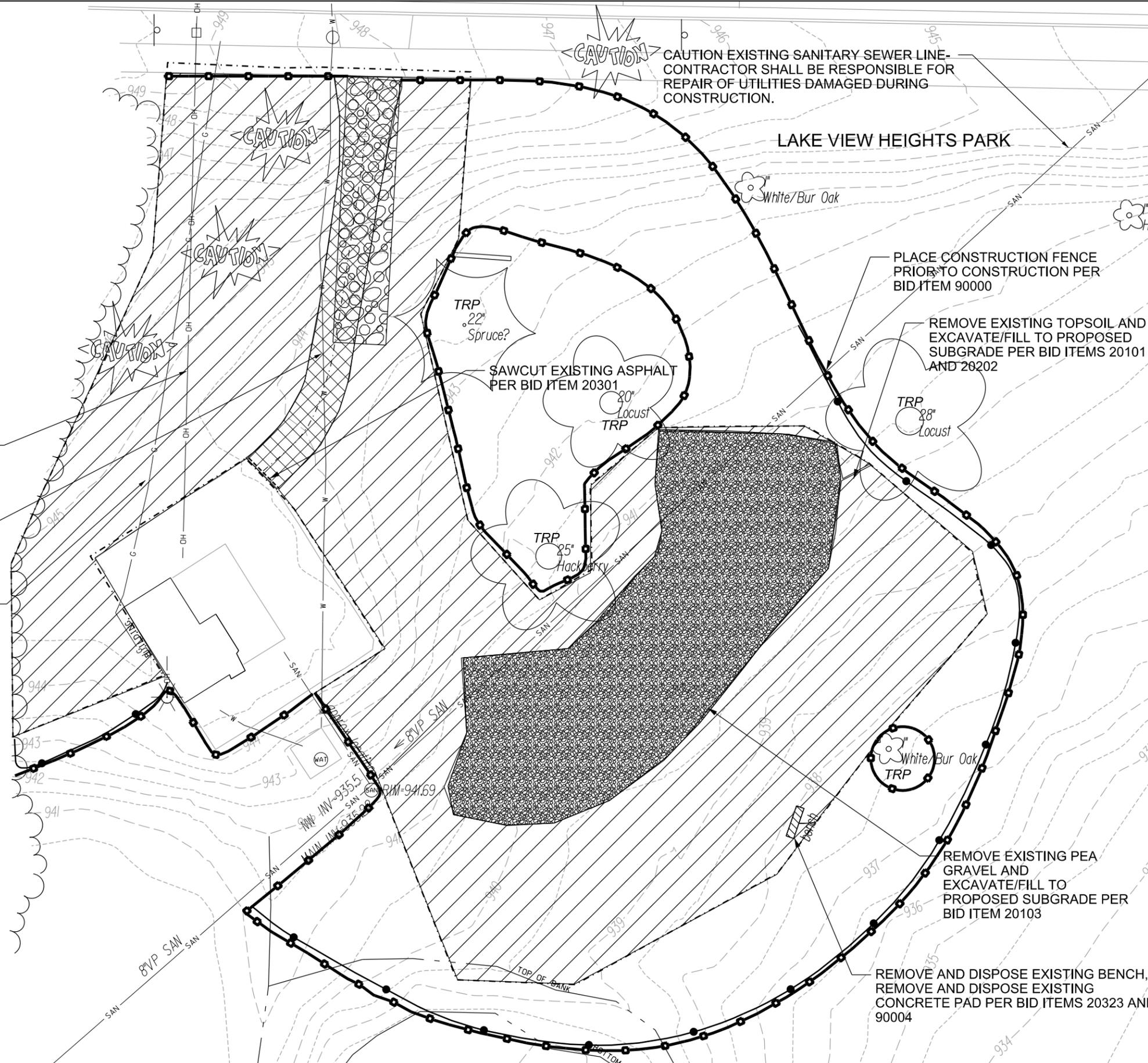
NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

CAUTION EXISTING OVERHEAD ELECTRICAL LINE- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

CAUTION EXISTING WATER LINE- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

CAUTION EXISTING GAS LINE- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.



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PARKS DIVISION

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Madison, WI 53703

play
MADISON
PARKS

Graphical Scale

0 20 ft



PROJECT:
**2019 PARK
PLAYGROUND
REPLACEMENTS-
GROUP 2**

**LAKE VIEW HEIGHTS PARK
1621 SUNFIELD ST.
MADISON, WI 53704**

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| ITEM | DATE |
|-------------------|------------|
| Advertised by: MS | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

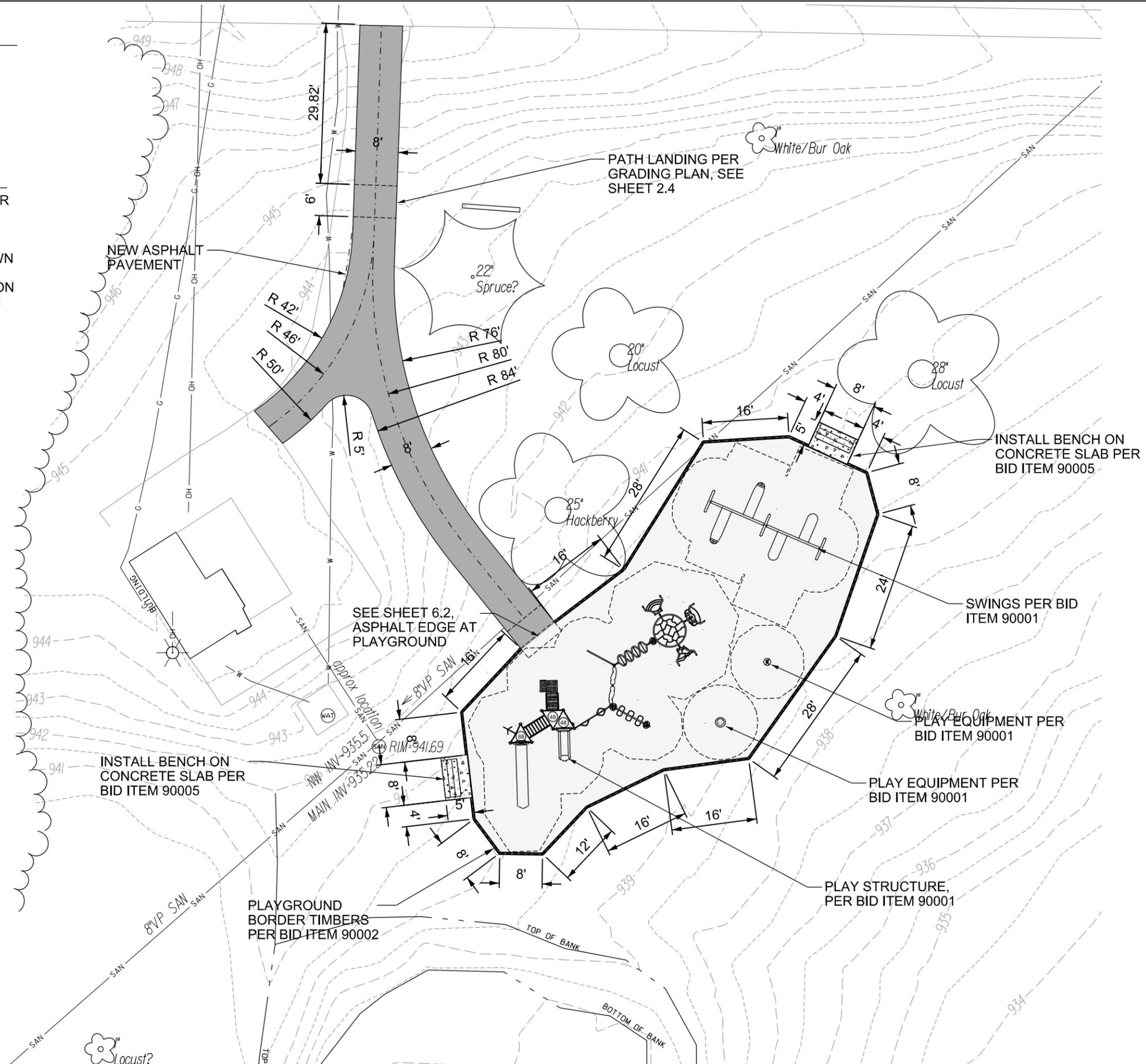
SHEET NUMBER:
2.2

LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

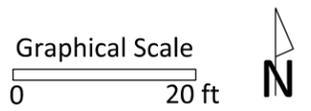
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play
MADISON
PARKS



PROJECT:
2019 PARK
PLAYGROUND
REPLACEMENTS-
GROUP 2

LAKE VIEW HEIGHTS PARK
 1621 SUNFIELD ST.
 MADISON, WI 53704

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| ITEM | DATE |
|----------------|------------|
| Advised by: MS | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
2.3

LEGEND

-  PRO. SPOT EL.
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  PRO. CONCRETE
-  PRO. EROSION MATTING
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. DRAINTILE
-  PRO. GRADING LIMITS
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

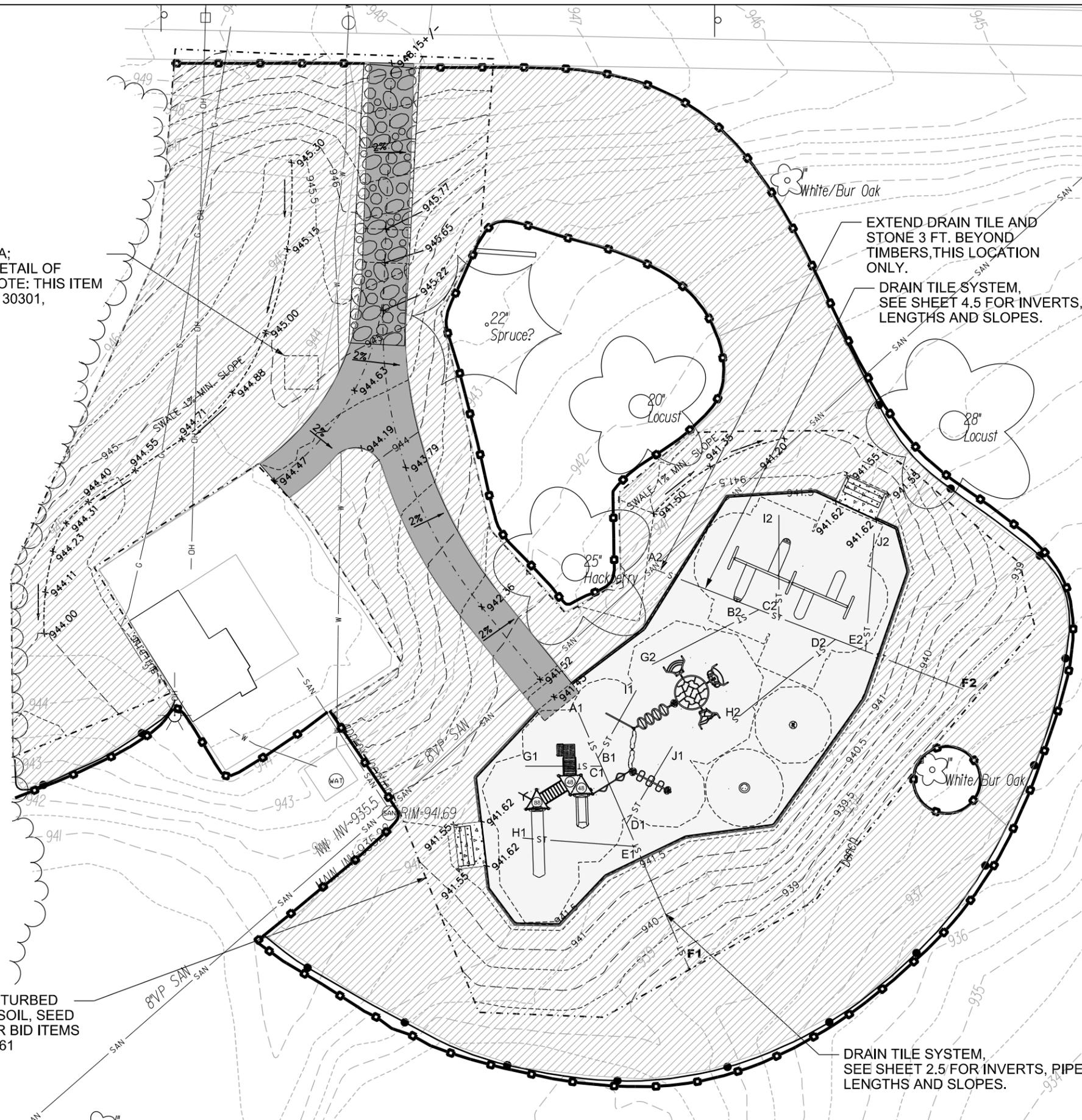
CONCRETE WASH-OUT AREA;
CONTRACTOR TO SUBMIT DETAIL OF
METHOD TO BE UTILIZED. NOTE: THIS ITEM
IS INCIDENTAL TO BID ITEM 30301,
CONCRETE SIDEWALK.

NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

EDGE OF PLAYGROUND BORDER TIMBERS: 941.62
ELEVATION OF FINISHED PLAYGROUND SURFACE: 941.45
PLAYGROUND SUBGRADE ELEVATION: 940.45
ASPHALT AT PLAYGROUND ELEVATION: 941.45

RESTORE ALL DISTURBED
AREAS WITH TOPSOIL, SEED
AND MATTING PER BID ITEMS
20221, 20701 & 21061



EXTEND DRAIN TILE AND
STONE 3 FT. BEYOND
TIMBERS, THIS LOCATION
ONLY.

DRAIN TILE SYSTEM,
SEE SHEET 4.5 FOR INVERTS,
LENGTHS AND SLOPES.

DRAIN TILE SYSTEM,
SEE SHEET 2.5 FOR INVERTS, PIPE
LENGTHS AND SLOPES.

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play
**MADISON
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PROJECT:
**2019 PARK
PLAYGROUND
REPLACEMENTS-
GROUP 2**

LAKE VIEW HEIGHTS PARK
1621 SUNFIELD ST.
MADISON, WI 53704

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|----------------|------------|
| Advised by: MS | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**GRADING AND
EROSION CONTROL
PLAN**

SHEET NUMBER:
2.4



PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS-
 GROUP 2**

**LAKE VIEW HEIGHTS PARK
 1621 SUNFIELD ST.
 MADISON, WI 53704**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM DATE
 Advertised by: MS 05-02-2019

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**DESIGN
 COMPUTATIONS**

SHEET NUMBER:
2.6

| Lake View Heights Park Playground - Earthwork Quantities | | | | | | | | | | | | |
|---|-----|------------------------------|---|--|------------------|--------------|------------|----------------------------|----------------------------|-----------------------|--|--------|
| City of Madison, WI Public Works Contract | | | | | | | | | | | | |
| Date Revised: 3/21/2019 | | | | | | | | | | | | |
| Notes: | | | | | | | | | | | | |
| Positive volumes are cuts, negative volumes are fills. | | | | | | | | | | | | |
| Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction. | | | | | | | | | | | | |
| Existing | | | | | | | | | | | | |
| Proposed | | | | | | | | | | | | |
| Proposed | | | | | | | | | | | | |
| Sort | Grp | Material | Item | From Surface Model | To Surface Model | area (sq ft) | depth (ft) | Unfac-tored volume (cu ft) | Unfac-tored volume (cu yd) | Expan-sion Factor (%) | Factored (Uncom-pacted) Volume (cu yd) | |
| | | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | 8954 | 0.50 | 4477 | 165.8 | 0% | 165.8 | |
| | | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 8954 | varies | 865 | 32.0 | 0% | 32.0 |
| | | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 8954 | varies | -4159 | -154.1 | 0% | -154.1 |
| | | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 8954 | -0.50 | -4477 | -165.8 | 0% | -165.8 |
| | | Play Surface to Grass | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 464 | 1.42 | 657 | 24.3 | 0% | 24.3 |
| | | Play Surface to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 464 | varies | -640 | -23.7 | 0% | -23.7 |
| | | Play Surface to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 464 | -0.50 | -232 | -8.6 | 0% | -8.6 |
| | | Play Surface to Play Surface | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 2129 | 1.42 | 3016 | 111.7 | 0% | 111.7 |
| | | Play Surface to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 2129 | varies | 0 | 0.0 | 0% | 0.0 |
| | | Play Surface to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 2129 | varies | -3373 | -124.9 | 0% | -124.9 |
| | | Play Surface to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 2129 | -1.00 | -2129 | -78.8 | 0% | -78.8 |
| | | Play Surface to Timbers | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 491 | 1.42 | 696 | 25.8 | 0% | 25.8 |
| | | Play Surface to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 491 | varies | 0 | 0.0 | 0% | 0.0 |
| | | Play Surface to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 491 | varies | -441 | -16.3 | 0% | -16.3 |
| | | Play Surface to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 491 | -1.00 | -491 | -18.2 | 0% | -18.2 |
| | | Grass to Asphalt | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 697 | 0.50 | 348 | 12.9 | 0% | 12.9 |
| | | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 697 | varies | 124 | 4.6 | 0% | 4.6 |
| | | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 697 | varies | -144 | -5.3 | 0% | -5.3 |
| | | Grass to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | 697 | -0.75 | -522 | -19.3 | 0% | -19.3 |
| | | Grass to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 697 | -0.25 | -174 | -6.4 | 0% | -6.4 |
| | | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 43 | 0.50 | 21 | 0.8 | 0% | 0.8 |
| | | Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 43 | varies | 0.0 | 0% | 0.0 | |
| | | Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 43 | varies | -75 | -2.8 | 0% | -2.8 |
| | | Grass to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 43 | -1.00 | -43 | -1.6 | 0% | -1.6 |
| | | Play Surface to Asphalt | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 68 | 1.42 | 96 | 3.5 | 0% | 3.5 |
| | | Play Surface to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 68 | varies | 0 | 0.0 | 0% | 0.0 |
| | | Play Surface to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 68 | varies | -59 | -2.2 | 0% | -2.2 |
| | | Play Surface to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | 68 | -0.75 | -51 | -1.9 | 0% | -1.9 |
| | | Play Surface to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 68 | -0.25 | -17 | -0.6 | 0% | -0.6 |
| | | Asphalt to Grass | Asphalt Excavate | Excavate 12in asphalt | n/a | n/a | 202 | 1.00 | 202 | 7.5 | 0% | 7.5 |
| | | Asphalt to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-12in | Pro-6in | 202 | varies | 0.0 | 0% | 0.0 | |
| | | Asphalt to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-12in | Pro-6in | 202 | varies | -295 | -10.9 | 0% | -10.9 |
| | | Asphalt to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 202 | -0.50 | -101 | -3.7 | 0% | -3.7 |
| | | Grass to Playsurface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1064 | 0.50 | 532 | 19.7 | 0% | 19.7 |
| | | Grass to Playsurface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1064 | varies | 0 | 0.0 | 0% | 0.0 |
| | | Grass to Playsurface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1064 | varies | -1602 | -59.3 | 0% | -59.3 |
| | | Grass to Playsurface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 1064 | -1.00 | -1064 | -39.4 | 0% | -39.4 |

| | | | | | | | | | | | | |
|--|--|--------------------------|-----------------------------|--|---------|----------|-----|--------|------|-------|----|-------|
| | | Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 38 | 0.50 | 19 | 0.7 | 0% | 0.7 |
| | | Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-11in | 38 | varies | 0 | 0.0 | 0% | 0.0 |
| | | Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-11in | 38 | varies | -20 | -0.7 | 0% | -0.7 |
| | | Grass to Concrete | Gravel (for Pavement) Place | Place 6in gravel base | n/a | n/a | 38 | -0.50 | -19 | -0.7 | 0% | -0.7 |
| | | Grass to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 38 | -0.42 | -16 | -0.6 | 0% | -0.6 |
| | | Play Surface to Concrete | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 81 | 1.42 | 115 | 4.3 | 0% | 4.3 |
| | | Play Surface to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-11in | 81 | varies | 0 | 0.0 | 0% | 0.0 |
| | | Play Surface to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-11in | 81 | varies | -122 | -4.5 | 0% | -4.5 |
| | | Play Surface to Concrete | Gravel (for Pavement) Place | Place 6in gravel base | n/a | n/a | 81 | -0.50 | -41 | -1.5 | 0% | -1.5 |
| | | Play Surface to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 81 | -0.42 | -34 | -1.3 | 0% | -1.3 |
| | | Asphalt to Asphalt | Asphalt Excavate | Remove existing asphalt, estimated depth 12in | n/a | n/a | 469 | 1.00 | 469 | 17.4 | 0% | 17.4 |
| | | Asphalt to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-12in | Pro-12in | 469 | varies | 2 | 0.1 | 0% | 0.1 |
| | | Asphalt to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-12in | Pro-12in | 469 | varies | -294 | -10.9 | 0% | -10.9 |
| | | Asphalt to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base | n/a | n/a | 469 | -0.75 | -352 | -13.0 | 0% | -13.0 |
| | | Asphalt to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 469 | -0.25 | -117 | -4.3 | 0% | -4.3 |

Lake View Heights Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
 Date Revised: 3/21/2019

Derived from more detailed spreadsheet available from Parks Div

Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels

Sum of Unfac-tored volume (cu yd)

| | |
|---|---------------|
| Asphalt Place | -11.4 |
| Border Timbers Place (placeholder volume) | -19.8 |
| Gravel (for Pavement) Place | -36.5 |
| Play Surface Excavate | 169.6 |
| Play Surface Place | -118.3 |
| Subsoil Excavate | 33.9 |
| Subsoil Place | -412.9 |
| Topsoil Excavate | 199.9 |
| Topsoil Place | -178.1 |
| Asphalt Excavate | 24.9 |
| Grand Total | -348.6 |

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|---|
| 20101 Excavation Cut | 394 | CY | =Subsoil Excavate + Topsoil Excavate + Asphalt Excavate |
| 20103-Excavation Cut - Pea Gravel | 170 | CY | = Play Surface Excavate |
| 20202 Fill Borrow | 379 | CY | = Subsoil Excavate - Subsoil Place |
| 20221 Topsoil | 1067 | SY | = Topsoil Place/.167 (depth) |
| 40102 Crushed Aggregate Base Course Gradation No. 2 & 3 | 73 | TONS | = (Gravel Place) * 2.0 ton/cubic yard |
| 40201 HMA pavement 3 LT 58-28 S | 25 | TONS | = Asphalt Place * 2.16 ton/cubic yard |
| 90003 - Playground Surfacing - Wood Fiber Mulch | 130 | CY | = Play Surface Place*1.10 |



PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS
 - GROUP 2**

**PENN PARK
 2101 FISHER ST.
 MADISON, WI 53713**

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| ITEM | DATE |
|----------------|------------|
| Advised by: MS | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**PROJECT LOCATION
 AND SITE ACCESS**

SHEET NUMBER:
3.1



PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

PROPOSED CONSTRUCTION FENCE, NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

EXISTING PLAY EQUIPMENT SHALL BE REMOVED BY CITY, EXISTING RUBBER/PEA GRAVEL SURFACING SHALL BE REMOVED BY CONTRACTOR.

CONSTRUCTION ACCESS IS FROM FISHER STREET. THE CONTRACTOR SHALL PROTECT EXISTING SURFACES (ASPHALT, CURB, LAWN, SIDEWALK, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

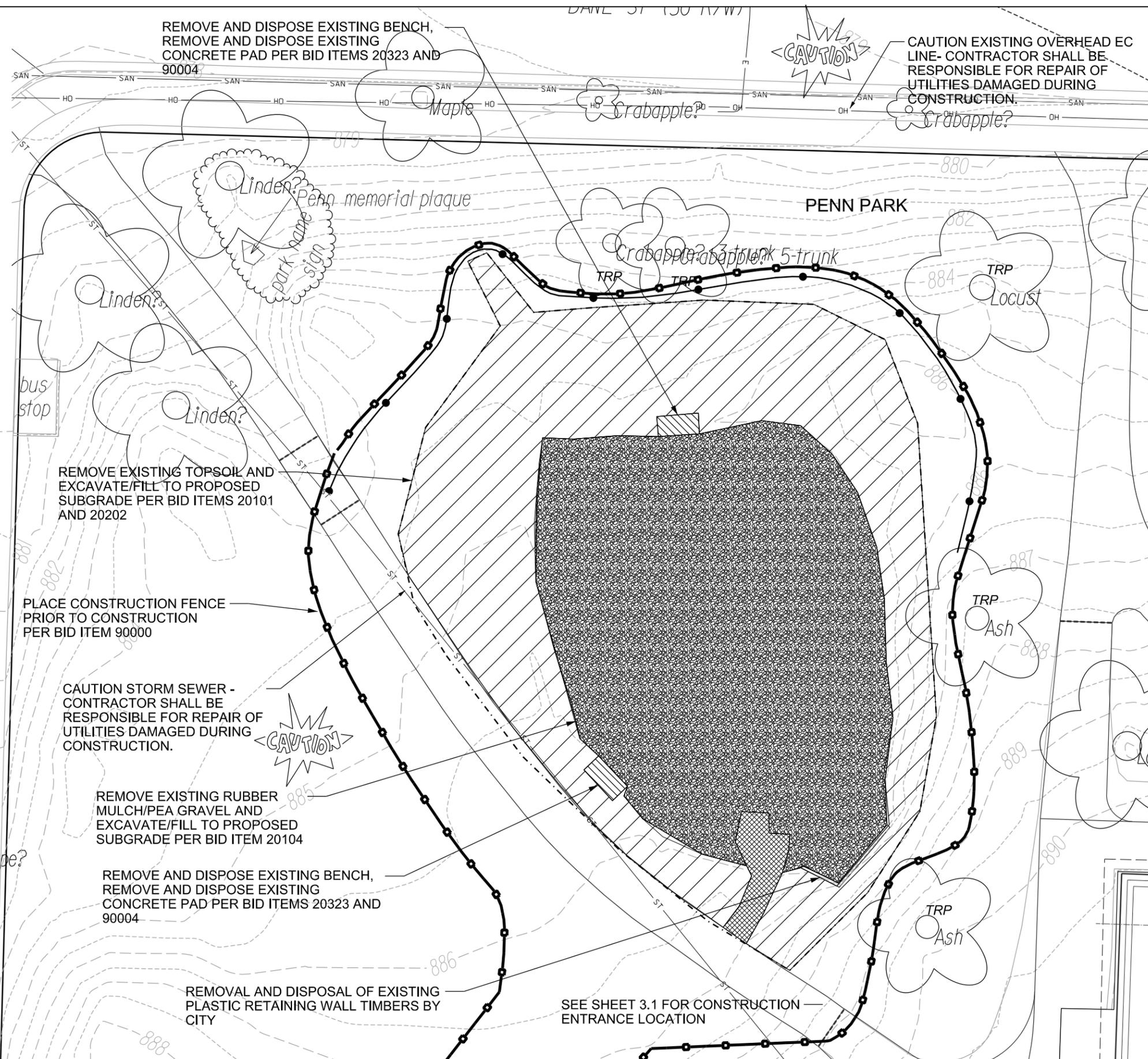
NO CONSTRUCTION VEHICLE TRAFFIC ON NEW SIDEWALK OR PARKING LOT.

LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. ASPHALT
-  REMOVE EX. CONCRETE
-  PRO. CONSTRUCTION ENTRANCE
-  TREE ROOT PROTECTION
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



REMOVE AND DISPOSE EXISTING BENCH,
REMOVE AND DISPOSE EXISTING
CONCRETE PAD PER BID ITEMS 20323 AND
90004

CAUTION EXISTING OVERHEAD EC
LINE- CONTRACTOR SHALL BE
RESPONSIBLE FOR REPAIR OF
UTILITIES DAMAGED DURING
CONSTRUCTION.

REMOVE EXISTING TOPSOIL AND
EXCAVATE/FILL TO PROPOSED
SUBGRADE PER BID ITEMS 20101
AND 20202

PLACE CONSTRUCTION FENCE
PRIOR TO CONSTRUCTION
PER BID ITEM 90000

CAUTION STORM SEWER -
CONTRACTOR SHALL BE
RESPONSIBLE FOR REPAIR OF
UTILITIES DAMAGED DURING
CONSTRUCTION.

REMOVE EXISTING RUBBER
MULCH/PEA GRAVEL AND
EXCAVATE/FILL TO PROPOSED
SUBGRADE PER BID ITEM 20104

REMOVE AND DISPOSE EXISTING BENCH,
REMOVE AND DISPOSE EXISTING
CONCRETE PAD PER BID ITEMS 20323 AND
90004

REMOVAL AND DISPOSAL OF EXISTING
PLASTIC RETAINING WALL TIMBERS BY
CITY

SEE SHEET 3.1 FOR CONSTRUCTION
ENTRANCE LOCATION

City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703

play
**MADISON
PARKS**

Graphical Scale
0 20 ft 

PROJECT:
**2019 PARK
PLAYGROUND
REPLACEMENTS-
GROUP 2**

**PENN PARK
2101 FISHER ST.
MADISON, WI 53713**

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| ITEM | DATE |
|----------------|------------|
| Advised by: MS | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

SHEET NUMBER:
3.2

LEGEND

- PRO. ASPHALT
- PRO. RUBBER MULCH
- PRO. CONCRETE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

City of Madison
 Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703

play
MADISON
PARKS

Graphical Scale
 0 20 ft N

PROJECT:
2019 PARK
PLAYGROUND
REPLACEMENTS-
GROUP 2

PENN PARK
2101 FISHER ST.
MADISON, WI 53713

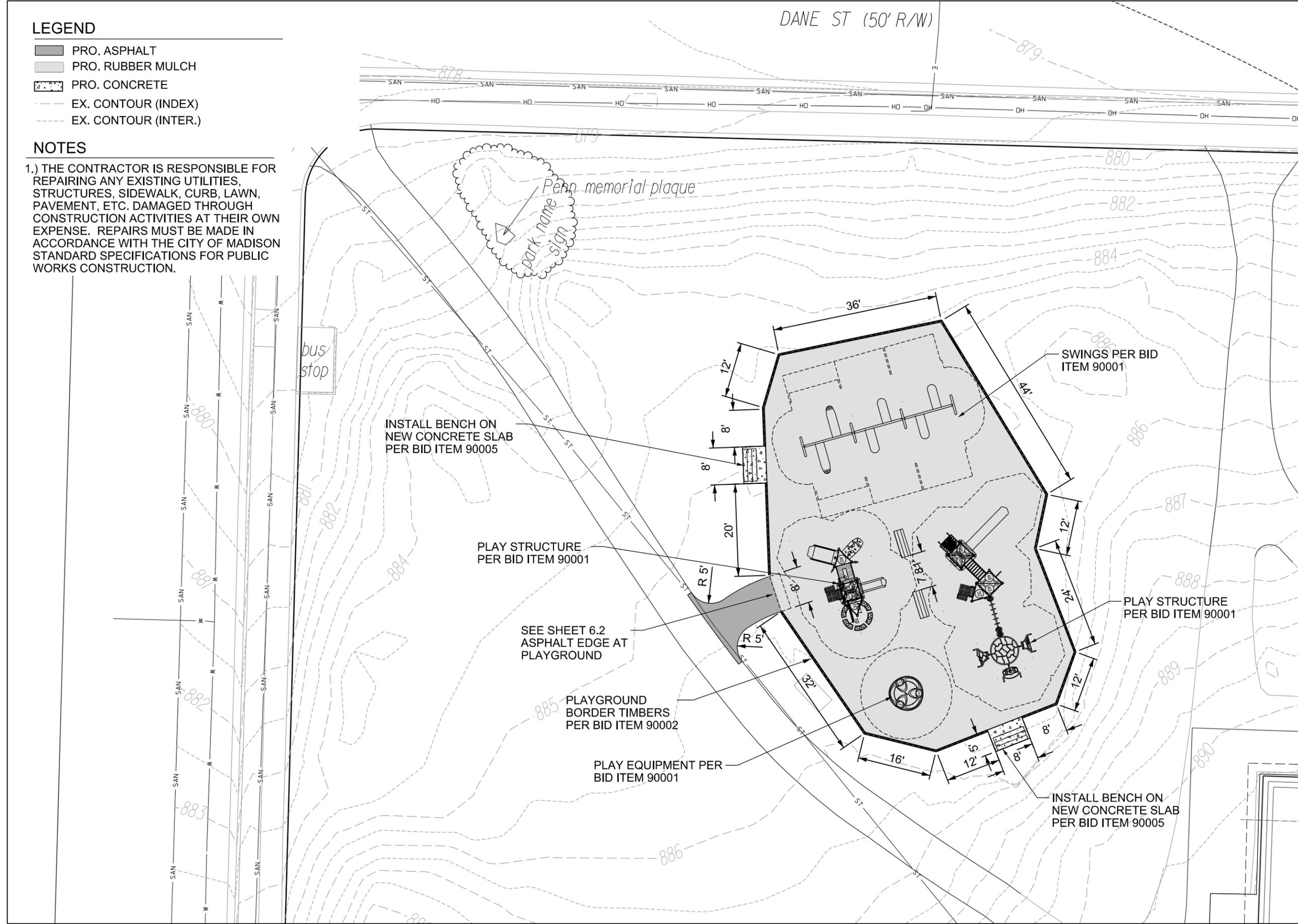
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| ITEM | DATE |
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| Advertised by: MS | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
3.3



LEGEND

-  PRO. SPOT EL.
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  PRO. CONCRETE
-  PRO. EROSION MATTING
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. DRAINTILE
-  PRO. GRADING LIMITS
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

EDGE OF PLAYGROUND BORDER TIMBERS: 885.92
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 885.76
 PLAYGROUND SUBGRADE ELEVATION: 884.76
 ASPHALT AT PLAYGROUND ELEVATION: 885.76

DRAIN TILE SYSTEM,
 SEE SHEET 3.5 FOR INVERTS, PIPE
 LENGTHS AND SLOPES.

RESTORE ALL DISTURBED AREAS WITH
 TOPSOIL, SEED AND MATTING PER BID
 ITEMS 20221, 20701 & 21061

CONCRETE WASH-OUT AREA;
 CONTRACTOR TO SUBMIT DETAIL OF
 METHOD TO BE UTILIZED. NOTE: THIS ITEM
 IS INCIDENTAL TO BID ITEM 30301,
 CONCRETE SIDEWALK.

RESTORE ALL DISTURBED AREAS WITH
 TOPSOIL, SEED AND MATTING PER BID
 ITEMS 20221, 20701 & 21061. SEEDING AND
 MAT EXTEND TO EXISTING SIDEWALK FOR
 FULL WIDTH OF ACCESS ROUTE.



City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703

play
MADISON
PARKS

Graphical Scale
 0 20 ft 

PROJECT:
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**GRADING AND
 EROSION CONTROL
 PLAN**

SHEET NUMBER:
3.4



PROJECT:
*2019 PARK
 PLAYGROUND
 REPLACEMENTS
 - GROUP 2*

*PENN PARK
 2101 FISHER ST.
 MADISON, WI 53713*

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| | |
|-------------------|------------|
| ITEM | DATE |
| Advertised by: MR | 05-02-2019 |

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
DRAIN TILE SCHEDULES

SHEET NUMBER:
3.5

| Penn Park Playground | | | |
|---|-------------|--|--------------|
| Drain Tile Invert (Flowline) Elevations | | | |
| Point | Invert (ft) | Distance from top of timbers 885.92 (INCHES) | Ahead length |
| A1 | 884.18 | 20.9 | 24.8 |
| B1 | 883.94 | 23.8 | 7.4 |
| C1 | 883.86 | 24.7 | 26.0 |
| D1 | 883.61 | 27.7 | 4.5 |
| E1 | 883.57 | 28.2 | 57.7 |
| F1 | 883.00 | 35.0 | |
| G1 | 884.18 | 20.9 | 22.3 |
| H1 | 884.18 | 20.9 | 21.5 |
| I1 | 884.18 | 20.9 | 28.7 |
| J1 | 884.18 | 20.9 | 36.6 |

| Drain Tile Lengths & Slopes | | | | |
|-----------------------------------|----|-------------|-----------|------------|
| from intersection to intersection | | | | |
| From | To | Length (ft) | Slope (%) | Pipe type |
| A1 | B1 | 24.8 | -0.97 | Underdrain |
| B1 | C1 | 7.4 | -1.08 | Underdrain |
| C1 | D1 | 26.0 | -0.96 | Underdrain |
| D1 | E1 | 4.5 | -0.89 | Underdrain |
| E1 | F1 | 57.7 | -0.99 | Underdrain |
| G1 | C1 | 22.3 | -1.43 | Underdrain |
| H1 | D1 | 21.5 | -2.65 | Underdrain |
| I1 | B1 | 28.7 | -0.84 | Underdrain |
| J1 | E1 | 36.6 | -1.67 | Underdrain |
| Total | | 229.50 | | |



PROJECT:
**2019 PARK
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 REPLACEMENTS-
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ITEM DATE
 Advertised by: MS 05-02-2019

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**DESIGN
 COMPUTATIONS**

SHEET NUMBER:
3.6

| Sort | Grp | Material | Item | From Surface Model | To Surface Model | area (sq ft) | depth (ft) | Unfactored volume (cu ft) | Unfactored volume (cu yd) | Expansion Factor (%) | Factored (Uncompacted) Volume (cu yd) |
|------|------------------------------|---|--|--------------------|------------------|--------------|------------|---------------------------|---------------------------|----------------------|---------------------------------------|
| | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 4097 | 0.50 | 2049 | 75.9 | 0% | 75.9 |
| | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 4097 | varies | 66 | 2.4 | 0% | 2.4 |
| | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 4097 | varies | -1191 | -44.1 | 0% | -44.1 |
| | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 4097 | -0.50 | -2049 | -75.9 | 0% | -75.9 |
| | Play Surface to Grass | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 466 | 1.42 | 659 | 24.4 | 0% | 24.4 |
| | Play Surface to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 466 | varies | -740 | -27.4 | 0% | -27.4 |
| | Play Surface to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 466 | -0.50 | -233 | -8.6 | 0% | -8.6 |
| | Play Surface to Play Surface | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 4012 | 1.42 | 5684 | 210.5 | 0% | 210.5 |
| | Play Surface to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 4012 | varies | 0 | 0.0 | 0% | 0.0 |
| | Play Surface to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 4012 | varies | -4091 | -151.5 | 0% | -151.5 |
| | Play Surface to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 4012 | -1.00 | -4012 | -148.6 | 0% | -148.6 |
| | Play Surface to Timbers | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 52 | 1.42 | 73 | 2.7 | 0% | 2.7 |
| | Play Surface to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 52 | varies | 0 | 0.0 | 0% | 0.0 |
| | Play Surface to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 52 | varies | -53 | -2.0 | 0% | -2.0 |
| | Play Surface to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 52 | -1.00 | -52 | -1.9 | 0% | -1.9 |
| | Grass to Asphalt | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 131 | 0.50 | 66 | 2.4 | 0% | 2.4 |
| | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 131 | varies | 44 | 1.6 | 0% | 1.6 |
| | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 131 | varies | 0.0 | 0.0 | 0% | 0.0 |
| | Grass to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base | n/a | n/a | 131 | -0.75 | -98 | -3.6 | 0% | -3.6 |
| | Grass to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 131 | -0.25 | -33 | -1.2 | 0% | -1.2 |
| | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 0.50 | 0 | 0.0 | 0.0 | 0% | 0.0 |
| | Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | varies | 3 | 0.1 | 0% | 0.1 | |
| | Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | varies | -33 | -1.2 | 0% | -1.2 | |
| | Grass to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | -1.00 | 0 | 0.0 | 0% | 0.0 | |
| | Play Surface to Asphalt | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 1.42 | 0 | 0.0 | 0% | 0.0 | |
| | Play Surface to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | varies | 0.0 | 0% | 0.0 | | |
| | Play Surface to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | varies | -9 | -0.3 | 0% | -0.3 | |
| | Play Surface to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | -0.75 | 0 | 0.0 | 0% | 0.0 | |
| | Play Surface to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | -0.25 | 0 | 0.0 | 0% | 0.0 | |

| | | | | | | | | | |
|--------------------------|-----------------------------|--|---------|----------|-----|--------|------|------|----|
| Asphalt to Grass | Asphalt Excavate | Excavate 12in asphalt | n/a | n/a | 120 | 1.00 | 120 | 4.4 | 0% |
| Asphalt to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-12in | Pro-6in | 120 | varies | 0.0 | 0% | |
| Asphalt to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-12in | Pro-6in | 120 | varies | -93 | -3.4 | 0% |
| Asphalt to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 120 | -0.50 | -60 | -2.2 | 0% |
| Grass to Playsurface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 258 | 0.50 | 129 | 4.8 | 0% |
| Grass to Playsurface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 258 | varies | 0.0 | 0% | |
| Grass to Playsurface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 258 | varies | -110 | -4.1 | 0% |
| Grass to Playsurface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 258 | -1.00 | -258 | -9.5 | 0% |
| Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 14 | 0.50 | 7 | 0.3 | 0% |
| Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-11in | 14 | varies | 0.0 | 0% | |
| Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-11in | 14 | varies | -8 | -0.3 | 0% |
| Grass to Concrete | Gravel (for Pavement) Place | Place 6in gravel base | n/a | n/a | 14 | -0.50 | -7 | -0.3 | 0% |
| Grass to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 14 | -0.42 | -6 | -0.2 | 0% |
| Play Surface to Concrete | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 66 | 1.42 | 94 | 3.5 | 0% |
| Play Surface to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-11in | 66 | varies | 0.0 | 0% | |
| Play Surface to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-11in | 66 | varies | -82 | -3.0 | 0% |
| Play Surface to Concrete | Gravel (for Pavement) Place | Place 6in gravel base | n/a | n/a | 66 | -0.50 | -33 | -1.2 | 0% |
| Play Surface to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 66 | -0.42 | -28 | -1.0 | 0% |

| | | | | | | | | | | |
|-------------------------|---|--|---------|----------|----|--------|-----|------|----|------|
| Asphalt to Asphalt | Asphalt Excavate | Remove existing asphalt, estimated depth 12in | n/a | n/a | 0 | 1.00 | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-12in | Pro-12in | 0 | varies | 0.0 | 0% | 0% | 0.0 |
| Asphalt to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-12in | Pro-12in | 0 | varies | 0.0 | 0% | 0% | 0.0 |
| Asphalt to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | 0 | -0.75 | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 0 | -0.25 | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Play Surface | Asphalt Excavate | Excavate 12in asphalt | n/a | n/a | 32 | 1.00 | 32 | 1.2 | 0% | 1.2 |
| Asphalt to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-12in | Pro-12in | 32 | varies | 0.0 | 0% | 0% | 0.0 |
| Asphalt to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-12in | Pro-12in | 32 | varies | -6 | -0.2 | 0% | -0.2 |
| Asphalt to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 32 | -1.00 | -32 | -1.2 | 0% | -1.2 |
| Asphalt to Timbers | Asphalt Excavate | Excavate 12in asphalt | n/a | n/a | 3 | 1.00 | 3 | 0.1 | 0% | 0.1 |
| Asphalt to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-12in | Pro-12in | 3 | varies | 0.0 | 0% | 0% | 0.0 |
| Asphalt to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-12in | Pro-12in | 3 | varies | -1 | 0.0 | 0% | 0.0 |
| Asphalt to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 3 | -1.00 | -3 | -0.1 | 0% | -0.1 |

Penn Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
 Date Revised: 3/27/2019

Derived from more detailed spreadsheet available from Parks Div

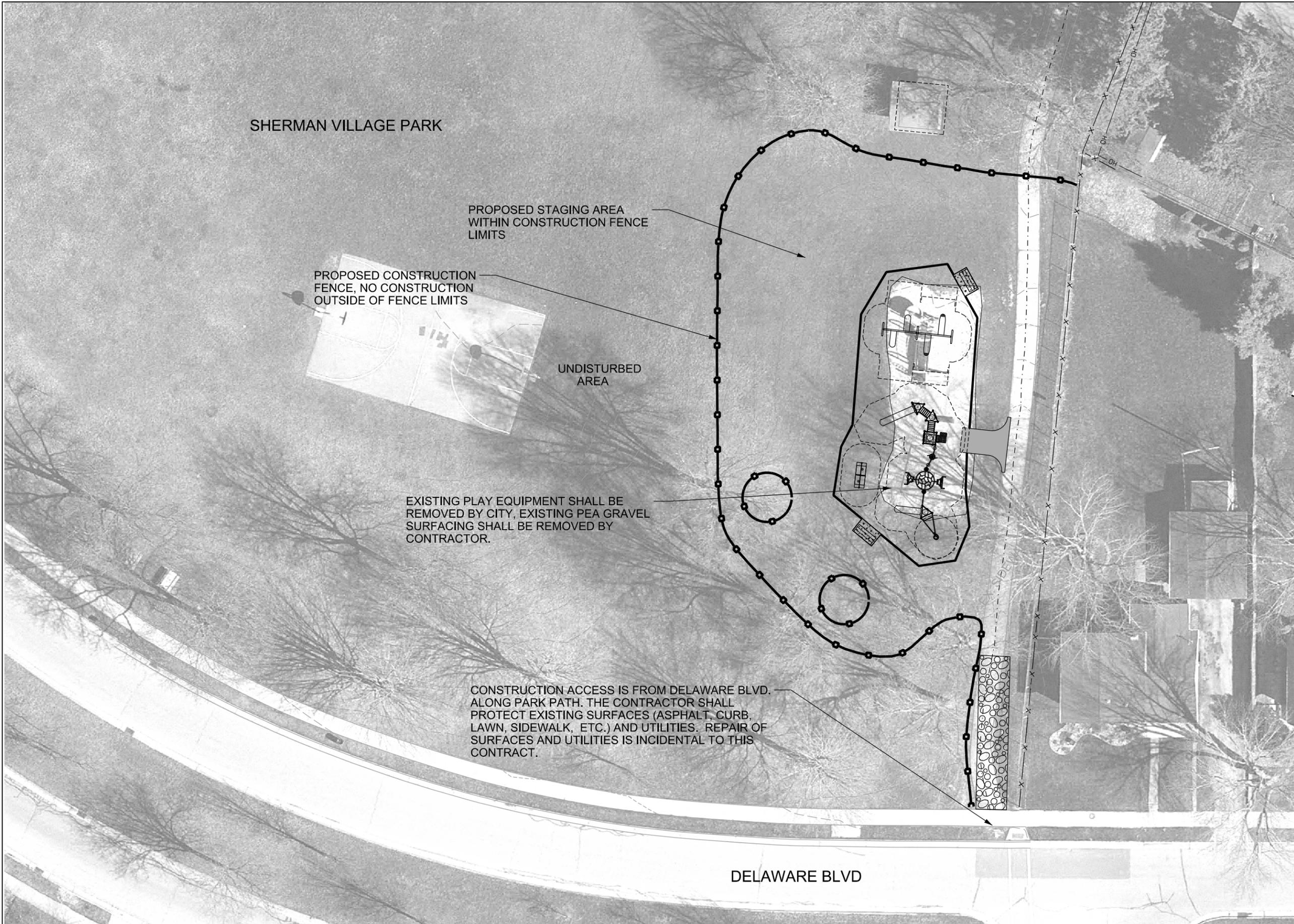
Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels **Sum of Unfactored volume (cu yd)**

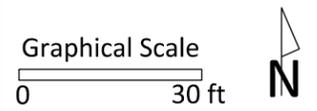
| | |
|---|---------------|
| Asphalt Place | -1.2 |
| Border Timbers Place (placeholder volume) | -2.0 |
| Gravel (for Pavement) Place | -5.1 |
| Play Surface Excavate | 241.1 |
| Play Surface Place | -159.3 |
| Subsoil Excavate | 2.8 |
| Subsoil Place | -236.3 |
| Topsoil Excavate | 83.3 |
| Topsoil Place | -86.7 |
| Asphalt Excavate | 5.7 |
| Concrete Place | -1.2 |
| Grand Total | -158.9 |

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|---------------------------------------|
| 20101 Excavation Cut | 86 | CY | =Subsoil Excavate + Topsoil Excavate |
| 20104 - Excavation Cut - Pea Gravel /Rubber Mix | 241 | CY | = Play Surface Excavate |
| 20201 Fill Borrow | 233 | CY | = Subsoil Excavate - Subsoil Place |
| 20221 Topsoil | 519 | SY | = Topsoil Place/.167 (depth) |
| 40102 Crushed Aggregate Base Course Gradation No. 2 & 3 | 10.3 | TONS | = (Gravel Place) * 2.0 ton/cubic yard |
| 40201 HMA Pavement 3 LT 58-28 S | 2.6 | TONS | = Asphalt Place * 2.16 ton/cubic yard |
| 90008 - Playground Surfacing - Rubber Mulch | 185 | CY | = Play Surface Place* 1.10 |



City of Madison
 Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703



PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS
 - GROUP 2**

**SHERMAN VILLAGE PARK
 1226 DELAWARE BLVD.
 MADISON, WI 53704**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|-------------------|------------|
| Advertised by: MS | 05-02-2019 |
| | |
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| | |

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**PROJECT LOCATION
 AND SITE ACCESS**

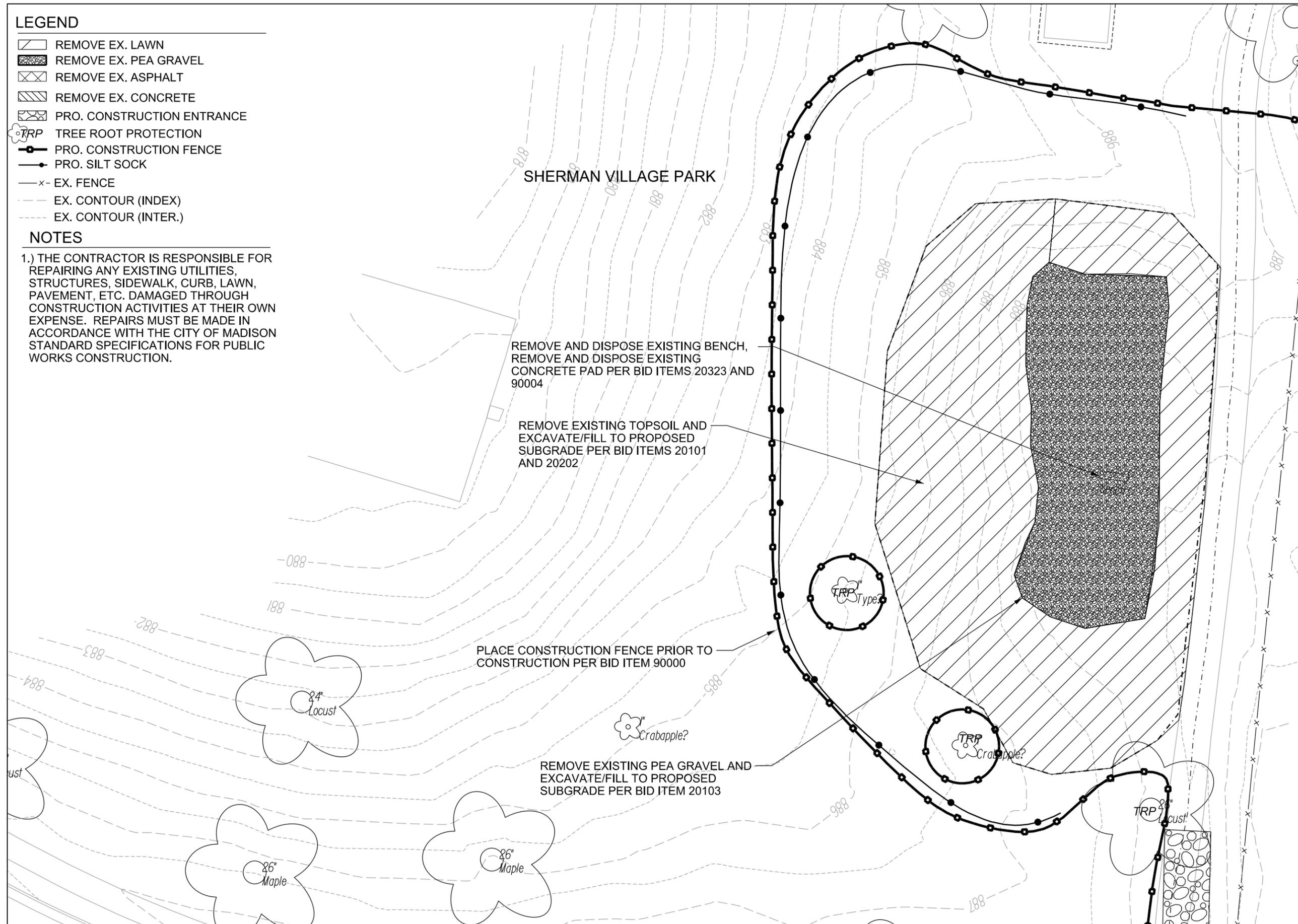
SHEET NUMBER:
4.1

LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. ASPHALT
-  REMOVE EX. CONCRETE
-  PRO. CONSTRUCTION ENTRANCE
-  TREE ROOT PROTECTION
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  EX. FENCE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



SHERMAN VILLAGE PARK

REMOVE AND DISPOSE EXISTING BENCH,
REMOVE AND DISPOSE EXISTING
CONCRETE PAD PER BID ITEMS 20323 AND
90004

REMOVE EXISTING TOPSOIL AND
EXCAVATE/FILL TO PROPOSED
SUBGRADE PER BID ITEMS 20101
AND 20202

PLACE CONSTRUCTION FENCE PRIOR TO
CONSTRUCTION PER BID ITEM 90000

REMOVE EXISTING PEA GRAVEL AND
EXCAVATE/FILL TO PROPOSED
SUBGRADE PER BID ITEM 20103

City of Madison
Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703

play
**MADISON
PARKS**

Graphical Scale

0 20 ft



PROJECT:
**2019 PARK
PLAYGROUND
REPLACEMENTS-
GROUP 2**

**SHERMAN VILLAGE PARK
1226 DELAWARE BLVD.
MADISON, WI 53704**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|-------------------|------------|
| Advertised by: MS | 05-02-2019 |
| | |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

SHEET NUMBER:
4.2

LEGEND

-  PRO. SPOT EL.
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  PRO. CONCRETE
-  PRO. EROSION MATTING
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. DRAINTILE
-  PRO. GRADING LIMITS
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

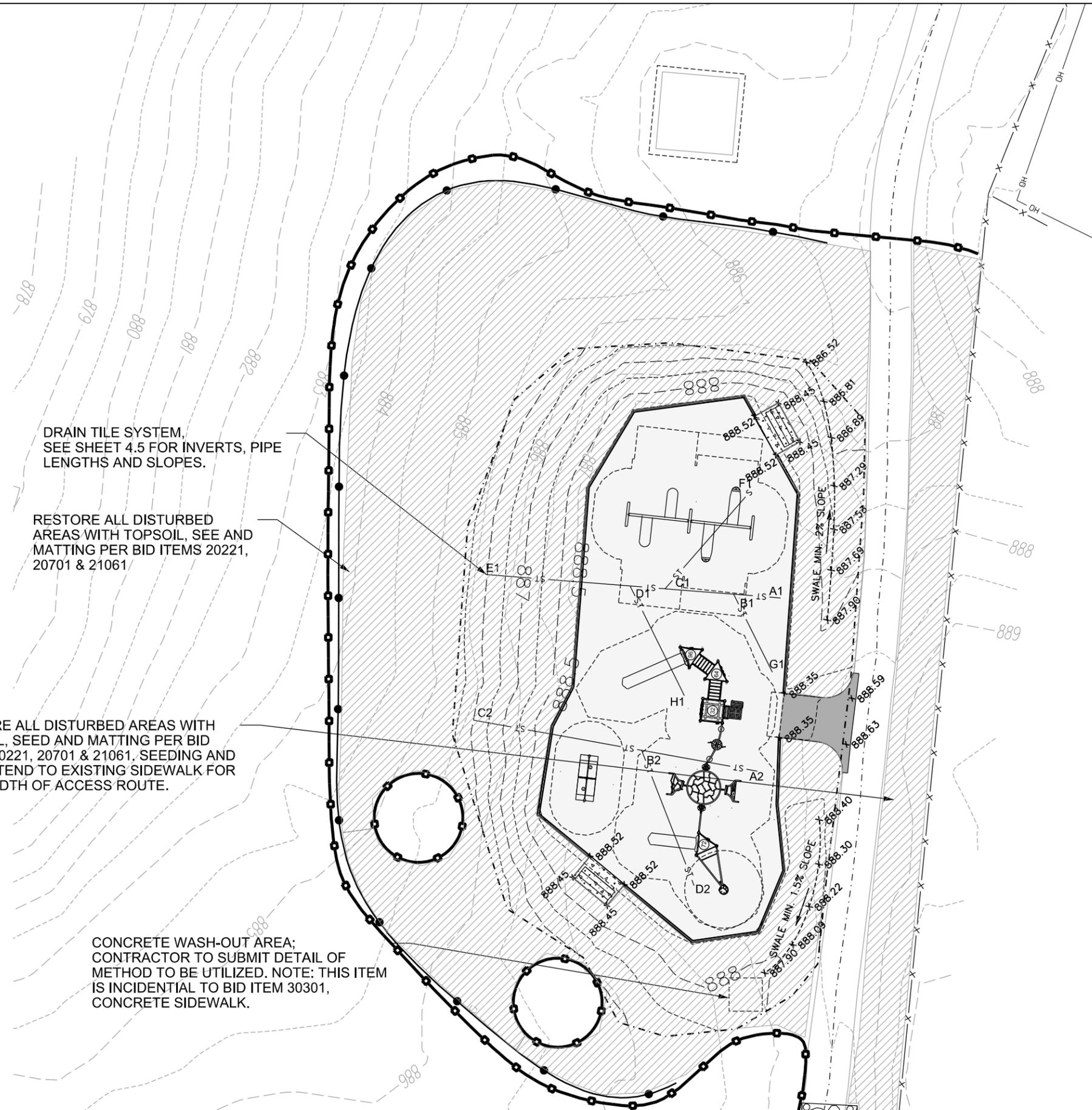
EDGE OF PLAYGROUND BORDER TIMBERS: 888.52
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 888.35
 PLAYGROUND SUBGRADE ELEVATION: 887.35
 ASPHALT AT PLAYGROUND ELEVATION: 888.35

DRAIN TILE SYSTEM, SEE SHEET 4.5 FOR INVERTS, PIPE LENGTHS AND SLOPES.

RESTORE ALL DISTURBED AREAS WITH TOPSOIL, SEE AND MATTING PER BID ITEMS 20221, 20701 & 21061

RESTORE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MATTING PER BID ITEMS 20221, 20701 & 21061. SEEDING AND MAT EXTEND TO EXISTING SIDEWALK FOR FULL WIDTH OF ACCESS ROUTE.

CONCRETE WASH-OUT AREA; CONTRACTOR TO SUBMIT DETAIL OF METHOD TO BE UTILIZED. NOTE: THIS ITEM IS INCIDENTAL TO BID ITEM 30301, CONCRETE SIDEWALK.



City of Madison
 Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703

play
MADISON
PARKS



PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS-
 GROUP 2**

SHERMAN VILLAGE PARK
 1226 DELAWARE BLVD.
 MADISON, WI 53704

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|----------------|------------|
| Advised by: MS | 05-02-2019 |
| | |
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| | |

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**GRADING AND
 EROSION CONTROL
 PLAN**

SHEET NUMBER:
4.4



PROJECT:
*2019 PARK
 PLAYGROUND
 REPLACEMENTS
 - GROUP 2*

*SHERMAN VILLAGE PARK
 1226 DELAWARE BLVD.
 MADISON, WI 53704*

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|----------------|------------|
| Advised by: MS | 05-02-2019 |
| | |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
DRAIN TILE SCHEDULES

SHEET NUMBER:
4.5

| Sherman Village Park Playground | | | |
|---|-------------|--|--------------|
| Drain Tile Invert (Flowline) Elevations | | | |
| Point | Invert (ft) | Distance from top of timbers 888.52 (INCHES) | Ahead length |
| A1 | 886.76 | 21.1 | 8.5 |
| B1 | 886.64 | 22.6 | 12.4 |
| C1 | 886.46 | 24.7 | 6.3 |
| D1 | 886.37 | 25.8 | 26.0 |
| E1 | 886.00 | 30.2 | |
| F1 | 886.76 | 21.1 | 24.0 |
| G1 | 886.76 | 21.1 | 15.6 |
| H1 | 886.76 | 21.1 | 23.0 |

| Drain Tile Lengths & Slopes | | | | |
|-----------------------------------|----|-------------|-----------|------------|
| from intersection to intersection | | | | |
| From | To | Length (ft) | Slope (%) | Pipe type |
| A1 | B1 | 8.5 | -1.42 | Underdrain |
| B1 | C1 | 12.4 | -1.45 | Underdrain |
| C1 | D1 | 6.3 | -1.42 | Underdrain |
| D1 | E1 | 26.0 | -1.42 | Underdrain |
| F1 | C1 | 24.0 | -1.25 | Underdrain |
| G1 | B1 | 15.6 | -0.77 | Underdrain |
| H1 | D1 | 23.0 | -1.70 | Underdrain |
| Total | | 115.75 | | |

| Sherman Village Park Playground | | | |
|---|-------------|--|--------------|
| Drain Tile Invert (Flowline) Elevations | | | |
| Point | Invert (ft) | Distance from top of timbers 888.52 (INCHES) | Ahead length |
| A2 | 886.76 | 21.1 | 21.2 |
| B2 | 886.45 | 24.8 | 30.7 |
| C2 | 886.00 | 30.2 | |
| D2 | 886.76 | 21.1 | 26.0 |

| Drain Tile Lengths & Slopes | | | | |
|-----------------------------------|----|-------------|-----------|------------|
| from intersection to intersection | | | | |
| From | To | Length (ft) | Slope (%) | Pipe type |
| A2 | B2 | 8.5 | -3.67 | Underdrain |
| B2 | C2 | 12.4 | -3.63 | Underdrain |
| D2 | B2 | 26.0 | -1.19 | Underdrain |
| Total | | 46.83 | | |



PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS-
 GROUP 2**

**SHERMAN VILLAGE PARK
 1226 DELAWARE BLVD.
 MADISON, WI 53704**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM DATE
 Advertised by: MS 05-02-2019

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**DESIGN
 COMPUTATIONS**

SHEET NUMBER:
4.6

Sherman Village Park Playground - Earthwork Quantities
 City of Madison, WI Public Works Contract
 Date Revised: 3/22/2019

Notes:
 Positive volumes are cuts, negative volumes are fills.
 Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

Existing
 Proposed
 Proposed

| Sort | Grp | Material | Item | From Surface Model | To Surface Model | area (sq ft) | depth (ft) | Unfac-tored volume (cu ft) | Unfac-tored volume (cu yd) | Expan-sion Factor (%) | Factored (Uncom-pacted) Volume (cu yd) |
|------|------------------------------|---|--|--------------------|------------------|--------------|------------|----------------------------|----------------------------|-----------------------|--|
| | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 3845 | 0.50 | 1922 | 71.2 | 0% | 71.2 |
| | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 3845 | varies | 95 | 3.5 | 0% | 3.5 |
| | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 3845 | varies | -1955 | -72.4 | 0% | -72.4 |
| | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 3845 | -0.50 | -1922 | -71.2 | 0% | -71.2 |
| | Play Surface to Grass | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 87 | 1.42 | 123 | 4.5 | 0% | 4.5 |
| | Play Surface to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 87 | varies | -108 | -4.0 | 0% | -4.0 |
| | Play Surface to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 87 | -0.50 | -43 | -1.6 | 0% | -1.6 |
| | Play Surface to Play Surface | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 1976 | 1.42 | 2799 | 103.7 | 0% | 103.7 |
| | Play Surface to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 1976 | varies | 0 | 0.0 | 0% | 0.0 |
| | Play Surface to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 1976 | varies | -1106 | -41.0 | 0% | -41.0 |
| | Play Surface to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 1976 | -1.00 | -1976 | -73.2 | 0% | -73.2 |
| | Play Surface to Timbers | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 19 | 1.42 | 27 | 1.0 | 0% | 1.0 |
| | Play Surface to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 19 | varies | 0 | 0.0 | 0% | 0.0 |
| | Play Surface to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 19 | varies | -12 | -0.4 | 0% | -0.4 |
| | Play Surface to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 19 | -1.00 | -19 | -0.7 | 0% | -0.7 |
| | Grass to Asphalt | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 103 | 0.50 | 52 | 1.9 | 0% | 1.9 |
| | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 103 | varies | 46 | 1.7 | 0% | 1.7 |
| | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 103 | varies | 0 | 0.0 | 0% | 0.0 |
| | Grass to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base | n/a | n/a | 103 | -0.75 | -77 | -2.9 | 0% | -2.9 |
| | Grass to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 103 | -0.25 | -26 | -1.0 | 0% | -1.0 |
| | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 52 | 0.50 | 26 | 1.0 | 0% | 1.0 |
| | Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 52 | varies | 3 | 0.1 | 0% | 0.1 |
| | Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 52 | varies | -33 | -1.2 | 0% | -1.2 |
| | Grass to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 52 | -1.00 | -52 | -1.9 | 0% | -1.9 |
| | Play Surface to Asphalt | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 22 | 1.42 | 31 | 1.2 | 0% | 1.2 |
| | Play Surface to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 22 | varies | 0 | 0.0 | 0% | 0.0 |
| | Play Surface to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 22 | varies | -9 | -0.3 | 0% | -0.3 |
| | Play Surface to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | 22 | -0.75 | -17 | -0.6 | 0% | -0.6 |
| | Play Surface to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 22 | -0.25 | -6 | -0.2 | 0% | -0.2 |

| | | | | | | | | | | |
|--------------------------|-----------------------------|---|---------|----------|--------|--------|-------|-------|-----|-------|
| Asphalt to Grass | Asphalt Excavate | Excavate 12in asphalt | n/a | n/a | 1.00 | 0 | 0.0 | 0% | 0.0 | |
| Asphalt to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-12in | Pro-6in | varies | | 0.0 | 0% | 0.0 | |
| Asphalt to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-12in | Pro-6in | varies | | 0.0 | 0% | 0.0 | |
| Asphalt to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | -0.50 | 0 | 0.0 | 0% | 0.0 | |
| Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1300 | 0.50 | 650 | 24.1 | 0% | 24.1 |
| Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1300 | varies | 130 | 4.8 | 0% | 4.8 |
| Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1300 | varies | -398 | -14.7 | 0% | -14.7 |
| Grass to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 1300 | -1.00 | -1300 | -48.1 | 0% | -48.1 |
| Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 43 | 0.50 | 21 | 0.8 | 0% | 0.8 |
| Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-11in | 43 | varies | 0 | 0.0 | 0% | 0.0 |
| Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-11in | 43 | varies | -30 | -1.1 | 0% | -1.1 |
| Grass to Concrete | Gravel (for Pavement) Place | Place 6in gravel base | n/a | n/a | 43 | -0.50 | -21 | -0.8 | 0% | -0.8 |
| Grass to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 43 | -0.42 | -18 | -0.7 | 0% | -0.7 |
| Play Surface to Concrete | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 37 | 1.42 | 53 | 2.0 | 0% | 2.0 |
| Play Surface to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-11in | 37 | varies | 0 | 0.0 | 0% | 0.0 |
| Play Surface to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-11in | 37 | varies | -42 | -1.6 | 0% | -1.6 |
| Play Surface to Concrete | Gravel (for Pavement) Place | Place 6in gravel base | n/a | n/a | 37 | -0.50 | -19 | -0.7 | 0% | -0.7 |
| Play Surface to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 37 | -0.42 | -16 | -0.6 | 0% | -0.6 |
| Asphalt to Asphalt | Asphalt Excavate | Remove existing asphalt, estimated depth 12in | n/a | n/a | 1.00 | 0 | 0.0 | 0% | 0.0 | |
| Asphalt to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-12in | Pro-12in | varies | | 0.0 | 0% | 0.0 | |
| Asphalt to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-12in | Pro-12in | varies | | 0.0 | 0% | 0.0 | |
| Asphalt to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | -0.75 | 0 | 0.0 | 0% | 0.0 | |
| Asphalt to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | -0.25 | 0 | 0.0 | 0% | 0.0 | |

Sherman Village Heights Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
 Date Revised: 3/22/2019

Derived from more detailed spreadsheet available from Parks Div

Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels **Sum of Unfac-tored volume (cu yd)**

| | |
|---|---------------|
| Asphalt Place | -1.2 |
| Border Timbers Place (placeholder volume) | -2.6 |
| Gravel (for Pavement) Place | -5.0 |
| Play Surface Excavate | 112.3 |
| Play Surface Place | -121.3 |
| Subsoil Excavate | 8.8 |
| Subsoil Place | -135.4 |
| Topsoil Excavate | 98.9 |
| Topsoil Place | -72.8 |
| Asphalt Excavate | 0.0 |
| Concrete Place | -1.2 |
| Grand Total | -119.4 |

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|---------------------------------------|
| 20101 Excavation Cut | 108 | CY | =Subsoil Excavate + Topsoil Excavate |
| 20103 - Excavation Cut - Pea Gravel | 112 | CY | = Play Surface Excavate |
| 20201 Fill Borrow | 144 | CY | = Subsoil Excavate - Subsoil Place |
| 20221 Topsoil | 435 | SY | = Topsoil Place/.167 (depth) |
| 40102 Crushed Aggregate Base Course Gradation No. 2 & 3 | 9.9 | TONS | = (Gravel Place) * 2.0 ton/cubic yard |
| 40201 HMA Pavement 3 LT 58-28 S | 2.5 | TONS | = Asphalt Place * 2.16 ton/cubic yard |
| 90003 - Playground Surfacing - Wood Fiber Mulch | 136 | CY | = Play Surface Place* 1.10 |

Graphical Scale

0 40 ft



PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS
 - GROUP 2**

**O.B. SHERRY PARK
 22 LEON ST
 MADISON, WI**

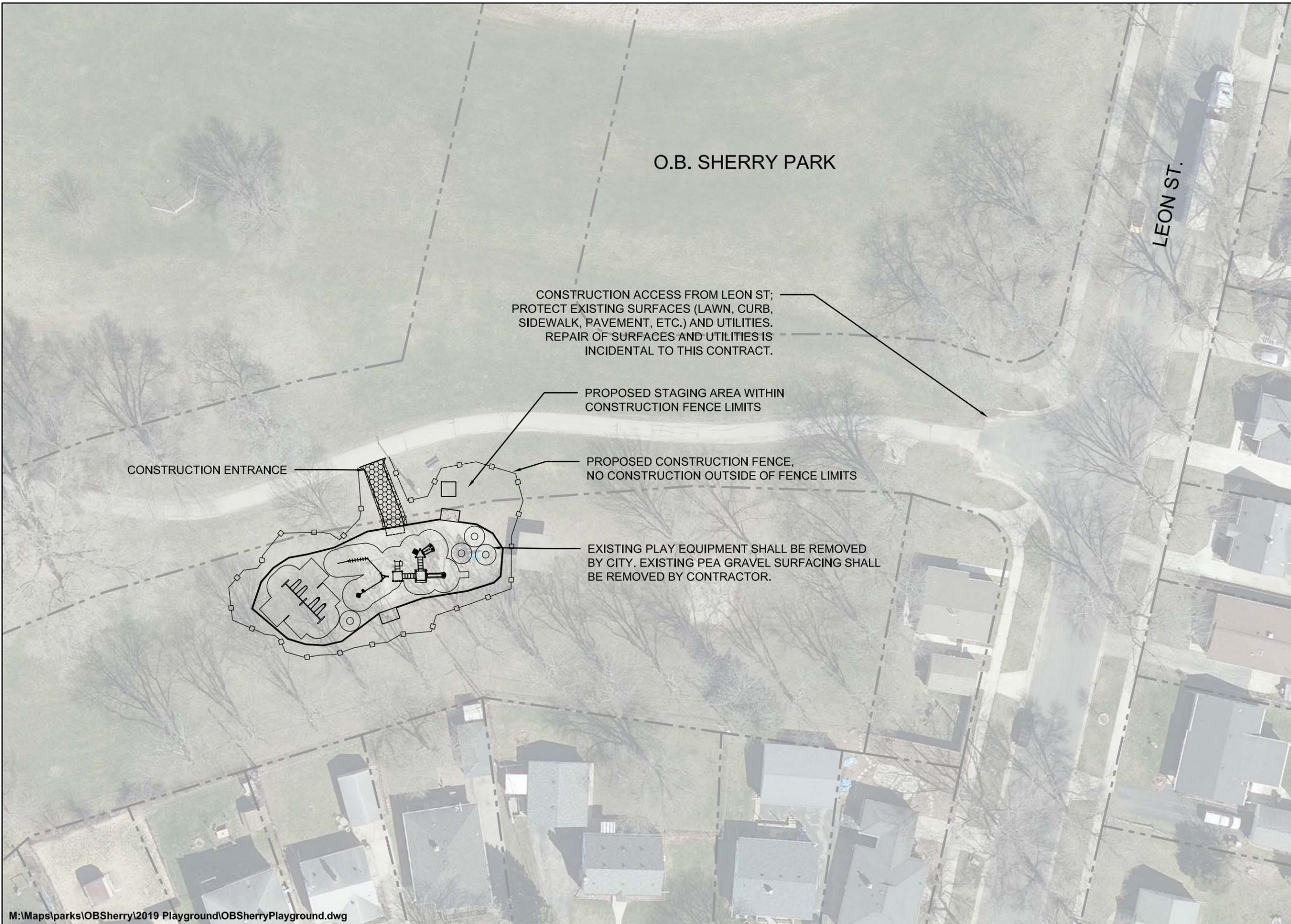
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|------------------|------------|
| Advised by: SC/L | 05-02-2019 |
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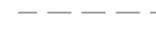
PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**PROJECT LOCATION
 AND SITE ACCESS**

SHEET NUMBER:
5.1

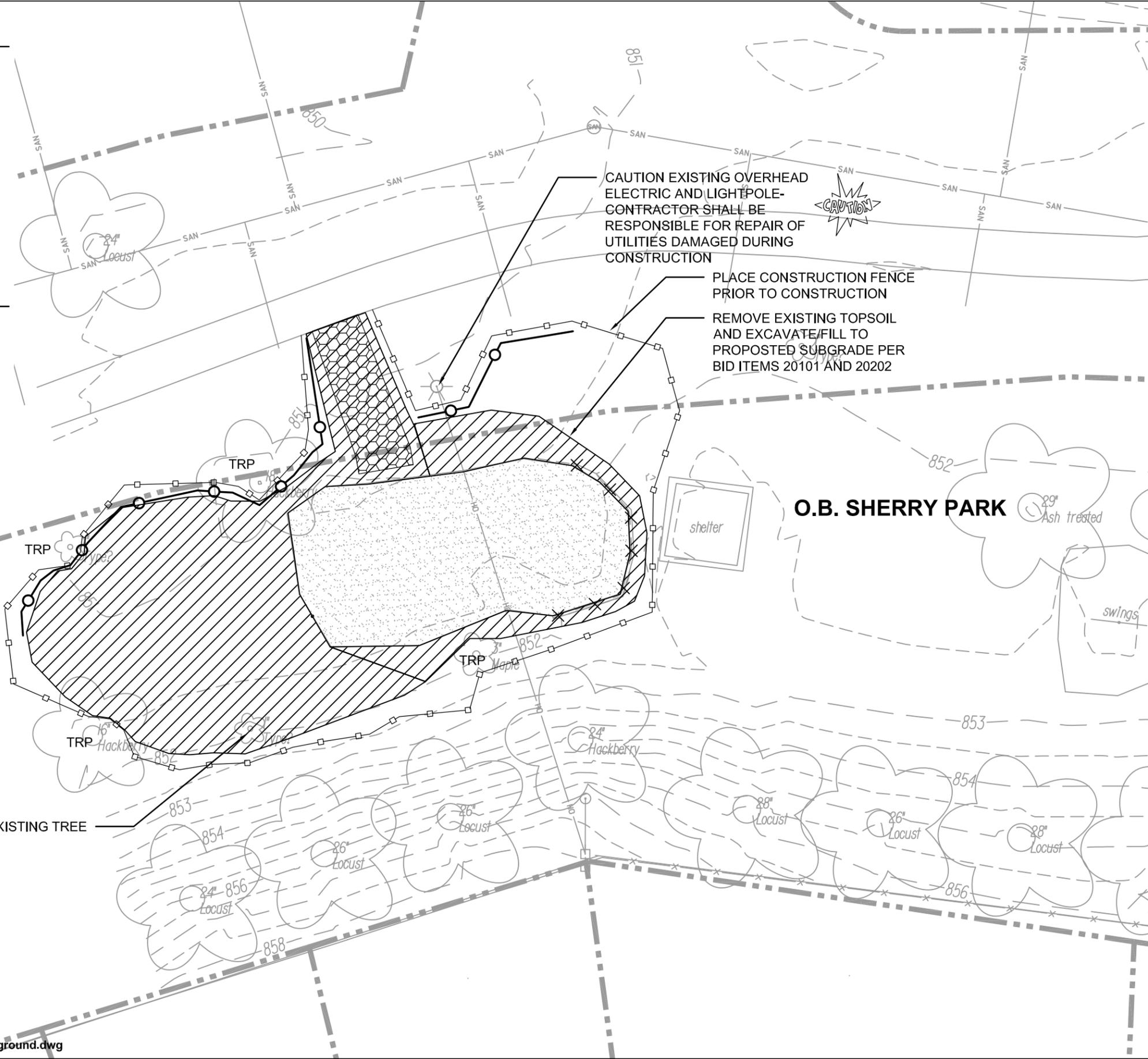


LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. RETAINING WALL
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. APPROX. PARK BOUNDARY
-  TRP TREE ROOT PROTECTION

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES SIDEWALK, CURB, LAWN PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



CAUTION EXISTING OVERHEAD ELECTRIC AND LIGHTPOLE- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

REMOVE EXISTING TOPSOIL AND EXCAVATE/FILL TO PROPOSTED SUBGRADE PER BID ITEMS 20101 AND 20202

REMOVE EXISTING TREE

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Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
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Madison, WI 53703

play
**MADISON
PARKS**

Graphical Scale
0 20 ft 

PROJECT:
**2019 PARK
PLAYGROUND
REPLACEMENTS
- GROUP 2**

**O.B. SHERRY PARK
22 LEON ST
MADISON, WI 53714**

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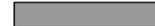
| ITEM | DATE |
|------------------|------------|
| Advised by: SC/L | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

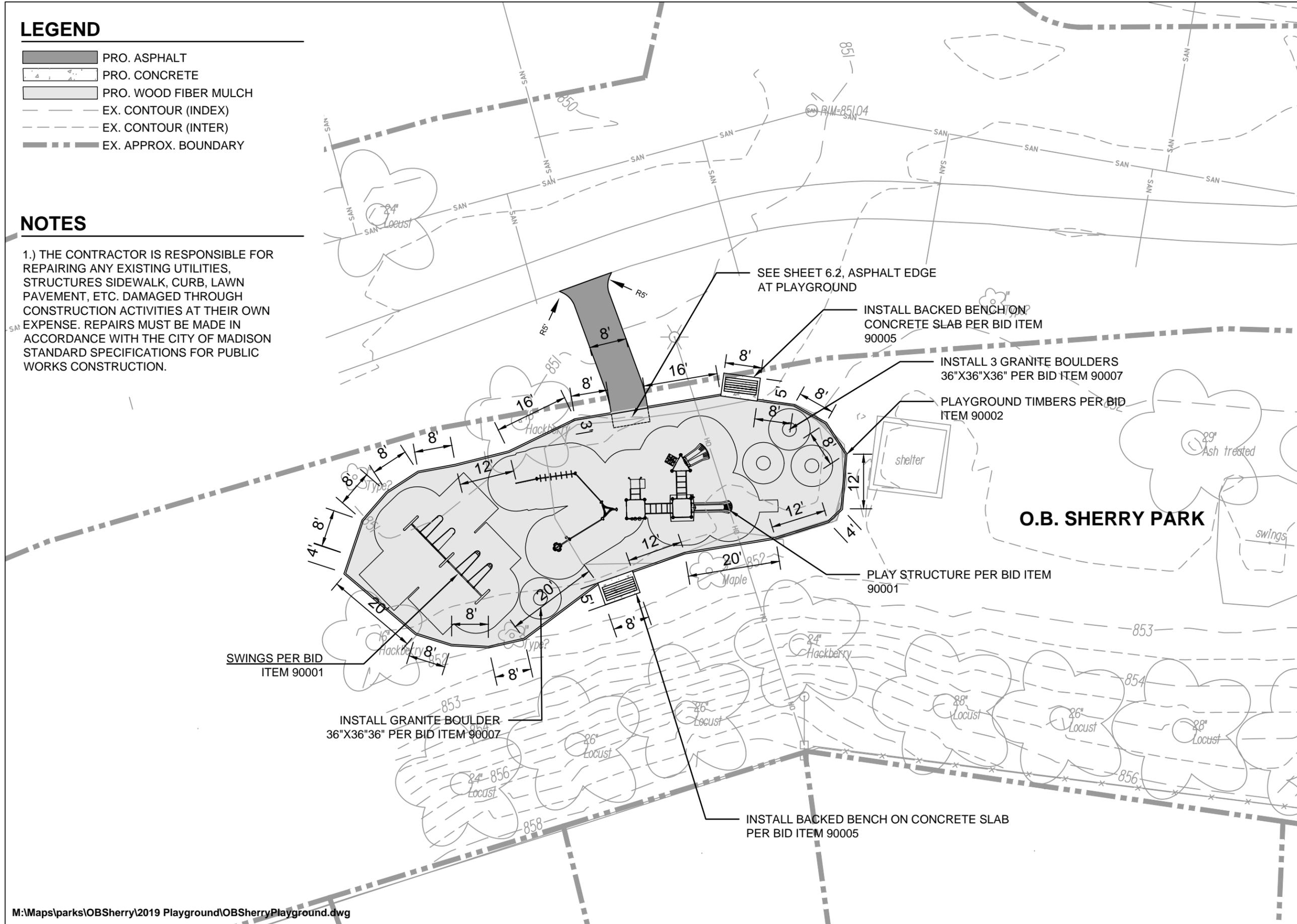
SHEET NUMBER:
5.2

LEGEND

-  PRO. ASPHALT
-  PRO. CONCRETE
-  PRO. WOOD FIBER MULCH
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. APPROX. BOUNDARY

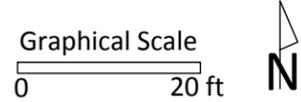
NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES SIDEWALK, CURB, LAWN PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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play
MADISON
PARKS



PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS
 - GROUP 2**

**O.B. SHERRY PARK
 22 LEON ST
 MADISON, WI 53714**

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| ITEM | DATE |
|------------------|------------|
| Advised by: SC/L | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

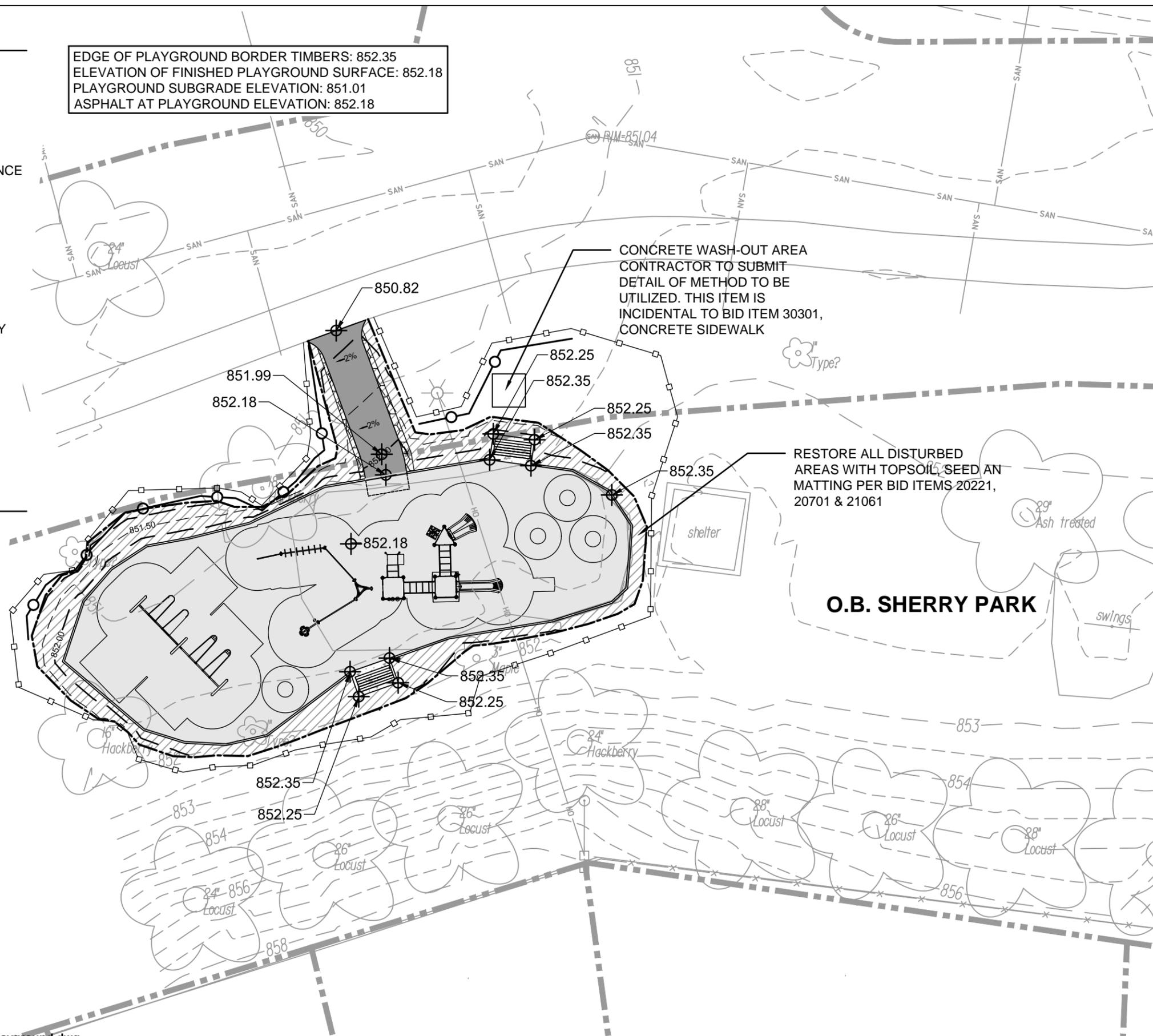
SHEET TITLE:
SITE PLAN

SHEET NUMBER:
5.3

LEGEND

- ###-⊕ PRO. SPOT EL.
- ▬ PRO. ASPHALT
- ▬ PRO. CONCRETE
- ▬ PRO. WOOD MULCH
- ▨ PRO. EROSION MATTING
- ▨ PRO. CONSTRUCTION ENTRANCE
- ▬ PRO. GRADING EXTENTS
- ▬ PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- ▬ PRO. CONTOUR (INDEX)
- - - PRO. CONTOUR (INTER)
- - - EX. CONTOUR (INDEX)
- - - EX. CONTOUR (INTER)
- - - EX. APPROX. PARK BOUNDARY

EDGE OF PLAYGROUND BORDER TIMBERS: 852.35
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 852.18
 PLAYGROUND SUBGRADE ELEVATION: 851.01
 ASPHALT AT PLAYGROUND ELEVATION: 852.18



CONCRETE WASH-OUT AREA
 CONTRACTOR TO SUBMIT
 DETAIL OF METHOD TO BE
 UTILIZED. THIS ITEM IS
 INCIDENTAL TO BID ITEM 30301,
 CONCRETE SIDEWALK

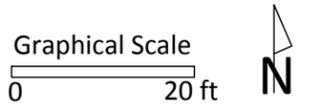
RESTORE ALL DISTURBED
 AREAS WITH TOPSOIL, SEED AN
 MATTING PER BID ITEMS 20221,
 20701 & 21061

O.B. SHERRY PARK

NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

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PARKS DIVISION
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PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS
 - GROUP 2**

**O.B. SHERRY PARK
 22 LEON ST
 MADISON, WI 53714**

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| ITEM | DATE |
|------------------|------------|
| Advised by: SC/L | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**GRADING & EROSION
 CONTROL PLAN**

SHEET NUMBER:
5.4

OB Sherry

City of Madison Public Works Contract
Date Revised: 4/11/2019

Notes:

Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

| Sort | Grp | Material | Item | From Surface Model | To Surface Model | area (sq ft) | depth (ft) | Unfactored volume (cu ft) | Unfactored volume (cu yd) | Expansion Factor (%) | Factored (Uncompacted) Volume (cu yd) |
|------|-----------------------|---|---|--------------------|------------------|--------------|------------|---------------------------|---------------------------|----------------------|---------------------------------------|
| 1.1 | Grass to Asphalt | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 309 | 0.50 | 155 | 5.7 | 0% | 5.7 |
| 1.2 | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 309 | varies | 22 | 0.8 | 0% | 0.8 |
| 1.3 | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 309 | varies | -41 | -1.5 | 0% | -1.5 |
| 1.4 | Grass to Asphalt | Gravel Place | Place 9in depth gravel base out to 6in from pavement edge | n/a | n/a | 309 | -0.75 | -232 | -8.6 | 0% | -8.6 |
| 1.5 | Grass to Asphalt | Asphalt Place | Place 3in asphalt (includes ramp into playground) | n/a | n/a | 264 | -0.25 | -66 | -2.4 | 0% | -2.4 |
| 1.6 | Grass to Asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 45 | -0.25 | -11 | -0.4 | 0% | -0.4 |
| 2.1 | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1091 | 0.50 | 545.55 | 20.2 | 0% | 20.2 |
| 2.2 | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 1091 | varies | 19.95 | 0.7 | 0% | 0.7 |
| 2.3 | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 1091 | varies | -230.89 | -8.6 | 0% | -8.6 |
| 2.4 | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 1091 | -0.50 | -545.50 | -20.2 | 0% | -20.2 |
| 3.1 | Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1718 | 0.50 | 859 | 31.8 | 0% | 31.8 |
| 3.2 | Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1718 | varies | 441.73 | 16.4 | 0% | 16.4 |
| 3.3 | Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1718 | varies | -29 | -1.1 | 0% | -1.1 |
| 3.4 | Grass to Play Surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 1718 | -1.00 | -1718 | -63.6 | 0% | -63.6 |
| 4.1 | Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 80 | 0.50 | 40 | 1.5 | 0% | 1.5 |
| 4.2 | Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-7in | 80 | varies | 0 | 0.0 | 0% | 0.0 |
| 4.3 | Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-7in | 80 | varies | -45 | -1.7 | 0% | -1.7 |
| 4.4 | Grass to Concrete | Gravel Place | Place 2" aggregate base | n/a | n/a | 80 | -0.16 | -13 | -0.5 | 0% | -0.5 |
| 4.4 | Grass to Concrete | Concrete Place | Place 5" concrete | n/a | n/a | 80 | -0.42 | -33 | -1.2 | 0% | -1.2 |
| 5.1 | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 7 | 0.50 | 4 | 0.1 | 0% | 0.1 |
| 5.2 | Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 7 | varies | 0 | 0.0 | 0% | 0.0 |
| 5.3 | Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 7 | varies | -3.10 | -0.1 | 0% | -0.1 |
| 5.4 | Grass to Timbers | Border Timbers Place (placeholder volume) | Border Timbers (placeholder volume to balance volume comps) | n/a | n/a | 7 | -1.00 | -7 | -0.3 | 0% | -0.3 |
| 6.1 | Play surface to grass | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 0 | 1.42 | 0 | 0.0 | 0% | 0.0 |
| 6.2 | Play surface to grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-6in | 0 | varies | 0 | 0.0 | 0% | 0.0 |
| 6.3 | Play surface to grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 0 | varies | 0 | 0.0 | 0% | 0.0 |
| 6.4 | Play surface to grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 0 | -0.50 | 0 | 0.0 | 0% | 0.0 |

| | | | | | | | | | | | |
|-----|------------------------------|---|---|---------|----------|------|--------|-------|-------|----|-------|
| 7.1 | Play surface to play surface | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 1752 | 1.42 | 2488 | 92.1 | 0% | 92.1 |
| 7.2 | Play surface to play surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 1752 | varies | 0 | 0.0 | 0% | 0.0 |
| 7.3 | Play surface to play surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 1752 | varies | -1904 | -70.5 | 0% | -70.5 |
| 7.4 | Play surface to play surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 1752 | -1.00 | -1752 | -64.9 | 0% | -64.9 |
| 8.1 | Play surface to timbers | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 2 | 1.42 | 2 | 0.1 | 0% | 0.1 |
| 8.2 | Play surface to timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 2 | varies | 0 | 0.0 | 0% | 0.0 |
| 8.3 | Play surface to timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 2 | varies | -2 | -0.1 | 0% | -0.1 |
| 8.4 | Play surface to timbers | Border Timbers Place (placeholder volume) | Place 12inches of timbers | n/a | n/a | 2 | -1.00 | -2 | -0.1 | 0% | -0.1 |
| 9.1 | Adjust | Play Surface Place | Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (2.25 ft x 9 ft x 7 in) | n/a | n/a | 20 | -0.29 | -6 | -0.2 | 0% | -0.2 |
| 9.2 | Adjust | Subsoil Excavate | Increase subsoil excavate by 1/2 of asphalt ramp gravel base volume = 1/2 x (2.25 ft x 9 ft x 7 in) | n/a | n/a | 20 | 0.29 | 6 | 0.2 | 0% | 0.2 |

OB Sherry - Earthwork Quantities

City of Madison Public Works Contract
Date Revised: 4/11/2019

Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

| Row Labels | Sum of Factored (Uncompacted) Volume (cu yd) |
|---|--|
| Asphalt Place | -2.4 |
| Border Timbers Place (placeholder volume) | -0.3 |
| Play Surface Place | -128.7 |
| Subsoil Excavate | 17.7 |
| Subsoil Place | -84.7 |
| Topsoil Excavate | 59.3 |
| Topsoil Place | -20.6 |
| Concrete Place | -1.2 |
| Gravel Place | -9.1 |
| Pea Gravel Excavate | 92.2 |
| Grand Total | -77.8 |

Reorganized into bid table items

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|--|
| 20101 Excavation Cut | 77 | CY | = Subsoil Excavate + Topsoil Excavate |
| 20103 Excavation Cut - Pea Gravel | 92 | CY | = Pea Gravel Excavate |
| 20201 Fill | 67 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 123 | SY | = (Topsoil Place) / - .167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 | 18 | tons | = (Gravel Place) * -2 ton/cubic yard |
| 40201 HMA Pavement 3 LT 52-28 S 90003 Playground Surfacing - Wood Mulch | 5.3 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| | 142 | CY | = Play Surface Place * -1.10 |

City of Madison
Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703



PROJECT:

2019 PARK PLAYGROUND REPLACEMENTS - GROUP 2

O.B. SHERRY PARK
22 LEON ST
MADISON, WI 53714

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM DATE
Advised by: SC/L 05-02-2019

PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
5.5

PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS-
 GROUP 2**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|----------------|------------|
| Advised by: MS | 05-02-2019 |
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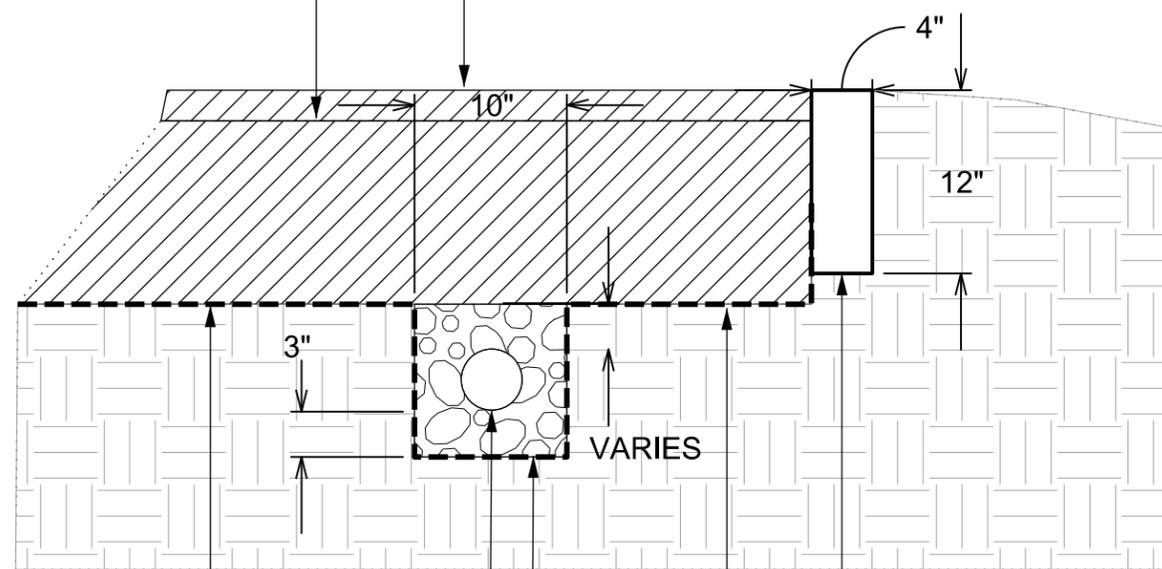
PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**TYPICAL PLAYGROUND
 SURFACING WITH
 UNDERDRAIN**

SHEET NUMBER:
6.1

ADDITIONAL 2" COMPACTED PLAYGROUND SURFACING, INITIAL OVER-FILL TO ADDRESS MATERIAL SETTLEMENT. ADDITIONAL QUANTITY INCLUDED IN BID ITEMS 90003 AND 90008.

12" COMPACTED PLAYGROUND SURFACING, PER GRADING PLAN INSTALLATION ELEVATION.



GEOTEXTILE FABRIC TYPE SAS NON WOVEN (MIN. 4 OZ/SY)

4 INCH PERFORATED PVC DRAIN PIPE WITH TYPICAL 'SOCK' PITCHED MINIMUM OF 0.5% SLOPE UNLESS OTHERWISE SPECIFIED.

OPEN GRADED BASE COURSE WI DOT GRADATION NO. 2 AS SPECIFIED IN SECTION 501.2.5.4.4 OF WI DOT STANDARD SPECIFICATIONS

PLAYGROUND SUBGRADE
 - MIN. 12" FROM PLAYGROUND SURFACE FINISHED.

PROPOSED PLAYGROUND BORDER TIMBERS PER MANUFACTURER'S INSTALLATION SPECIFICATIONS

PROJECT:
**2019 PARK
 PLAYGROUND
 REPLACEMENTS-
 GROUP 2**

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| ITEM | DATE |
|----------------|------------|
| Advised by: MS | 05-02-2019 |
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PUBLIC WORKS PROJECT #:
9398

SHEET TITLE:
**PAVEMENT EDGE
 AT PLAYGROUND**

SHEET NUMBER:
6.2

