

SHEET SCHEDULE

- 1.1 BRIGHAM PARK - PROJECT LOCATION AND SITE ACCESS
- 1.2 BRIGHAM PARK - DEMOLITION AND PROTECTION PLAN
- 1.3 BRIGHAM PARK - SITE PLAN
- 1.4 BRIGHAM PARK - GRADING AND EROSION CONTROL PLAN
- 1.5 BRIGHAM PARK - PATH PROFILE
- 1.6 BRIGHAM PARK - DESIGN COMPUTATIONS

- 2.1 LAKE EDGE PARK - PROJECT LOCATION AND SITE ACCESS
- 2.2 LAKE EDGE PARK - DEMOLITION AND PROTECTION PLAN
- 2.3 LAKE EDGE PARK - SITE PLAN
- 2.4 LAKE EDGE PARK - GRADING AND EROSION CONTROL PLAN
- 2.5 LAKE EDGE PARK - PATH PROFILE
- 2.6 LAKE EDGE PARK - STORM SEWER PLAN
- 2.7 LAKE EDGE PARK - LANDSCAPE PLAN
- 2.8 LAKE EDGE PARK - DESIGN COMPUTATIONS

SHEET SCHEDULE (CONTINUED)

- 3.1 MCGINNIS PARK - PROJECT LOCATION AND SITE ACCESS
- 3.2 MCGINNIS PARK - DEMOLITION AND PROTECTION PLAN
- 3.3 MCGINNIS PARK - SITE PLAN
- 3.4 MCGINNIS PARK - GRADING AND EROSION CONTROL PLAN
- 3.5 MCGINNIS PARK - PATH PROFILE
- 3.6 MCGINNIS PARK - DESIGN COMPUTATIONS

- 4.1 TENNEY PARK - PROJECT LOCATION AND SITE ACCESS
- 4.2 TENNEY PARK - DEMOLITION AND PROTECTION PLAN
- 4.3 TENNEY PARK - SITE PLAN
- 4.4 TENNEY PARK - GRADING AND EROSION CONTROL PLAN
- 4.5 TENNEY PARK - DESIGN COMPUTATIONS
- 4.6 TENNEY PARK - DESIGN COMPUTATIONS

- 5.1 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN
- 5.2 PAVEMENT EDGE AT PLAYGROUND
- 5.3 TYPICAL PATH CROSS SECTION
- 5.4 LIMESTONE OUTCROPPING STONE RETAINING WALL

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**

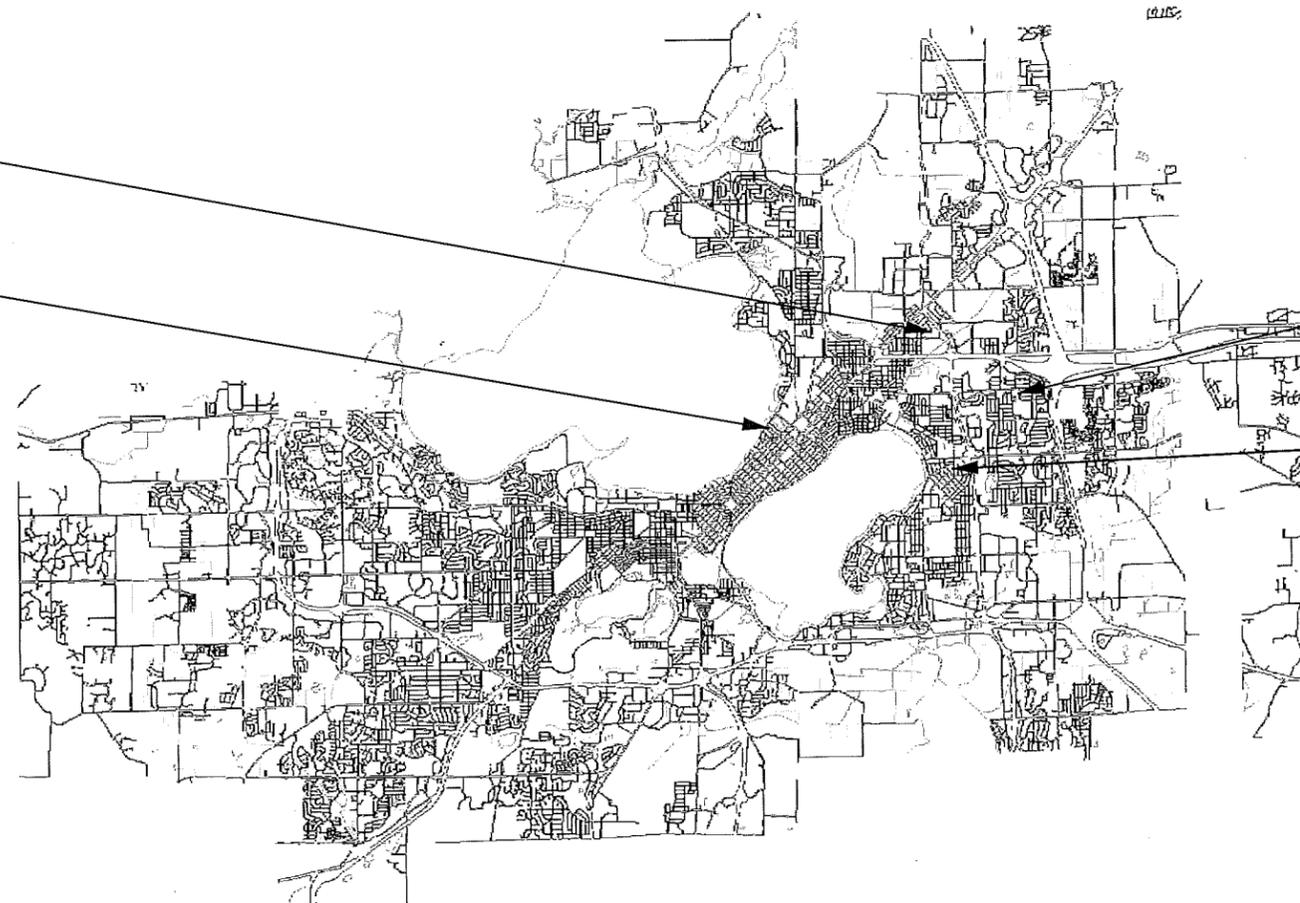


PROJECT:
 2017 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 3

2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3
CONTRACT 7929
 MUNIS NO's.: 17345, 17346, 17347

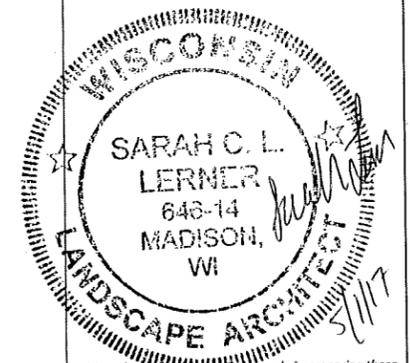
BRIGHAM PARK
 911 ROSEDALE AVE.
 MADISON, WI 53714

TENNEY PARK
 1414 E. JOHNSON ST.
 MADISON, WI 53704



MCGINNIS PARK
 9 CRYSTAL LN.
 MADISON, WI 53714

LAKE EDGE PARK
 511 PARK CT.
 MADISON, WI 53716



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: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
 SHEET NUMBER:



CONSTRUCTION ACCESS FROM BRIGHAM AVE./ROSEDALE DR.. PROTECT EXISTING SURFACES (LAWN, CURB, SIDEWALK, PAVEMENT, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

BRIGHAM AVE.

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

PROPOSED CONSTRUCTION FENCE, NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

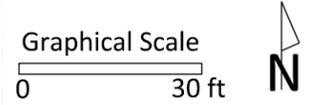
EXISTING PLAY EQUIPMENT SHALL BE REMOVED BY CITY, EXISTING PEA GRAVEL SURFACING SHALL BE REMOVED BY CONTRACTOR.

BRIGHAM PARK

City of Madison
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PROJECT:
2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3

BRIGHAM PARK
911 ROSEDALE AVE.
MADISON, WI 53714

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| Advised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

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
-  NO ROOT CUT PER BID ITEM 10803
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. PROPERTY LINE

NRC

BRIGHAM AVE.

REMOVE EXISTING PEA GRAVEL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

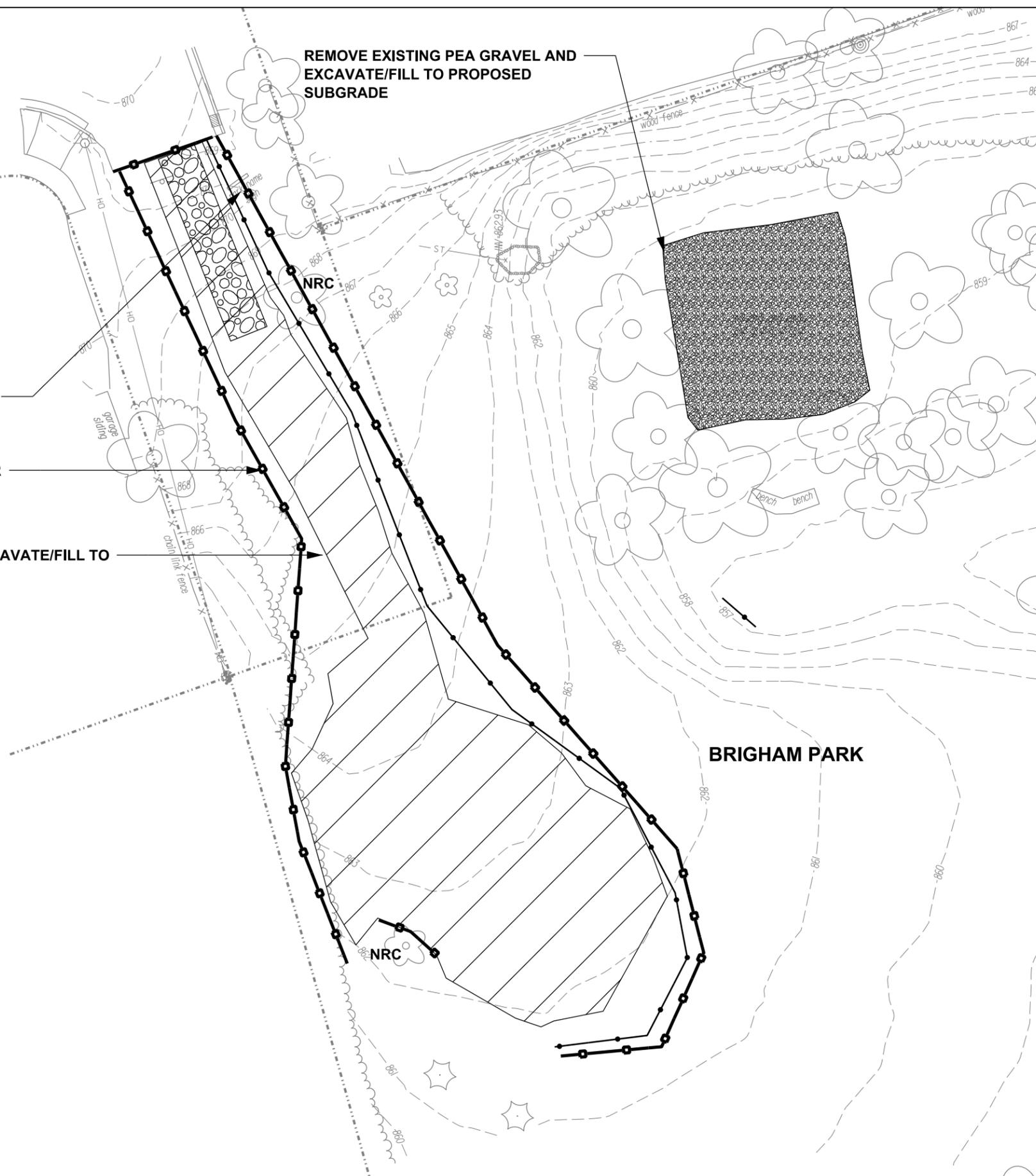
EXISTING SIGN TO BE TEMPORARILY REMOVED BY STAFF PRIOR TO CONSTRUCTION

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

REMOVE EXISTING TOPSOIL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

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

Graphical Scale

0 30 ft



PROJECT:
2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3

BRIGHAM PARK
911 ROSEDALE AVE.
MADISON, WI 53714

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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:
1.2

LEGEND

-  PRO. SPOT EL.
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  PRO. CONCRETE
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. GRADING LIMITS
-  PRO. UNDERDRAIN
-  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 5.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

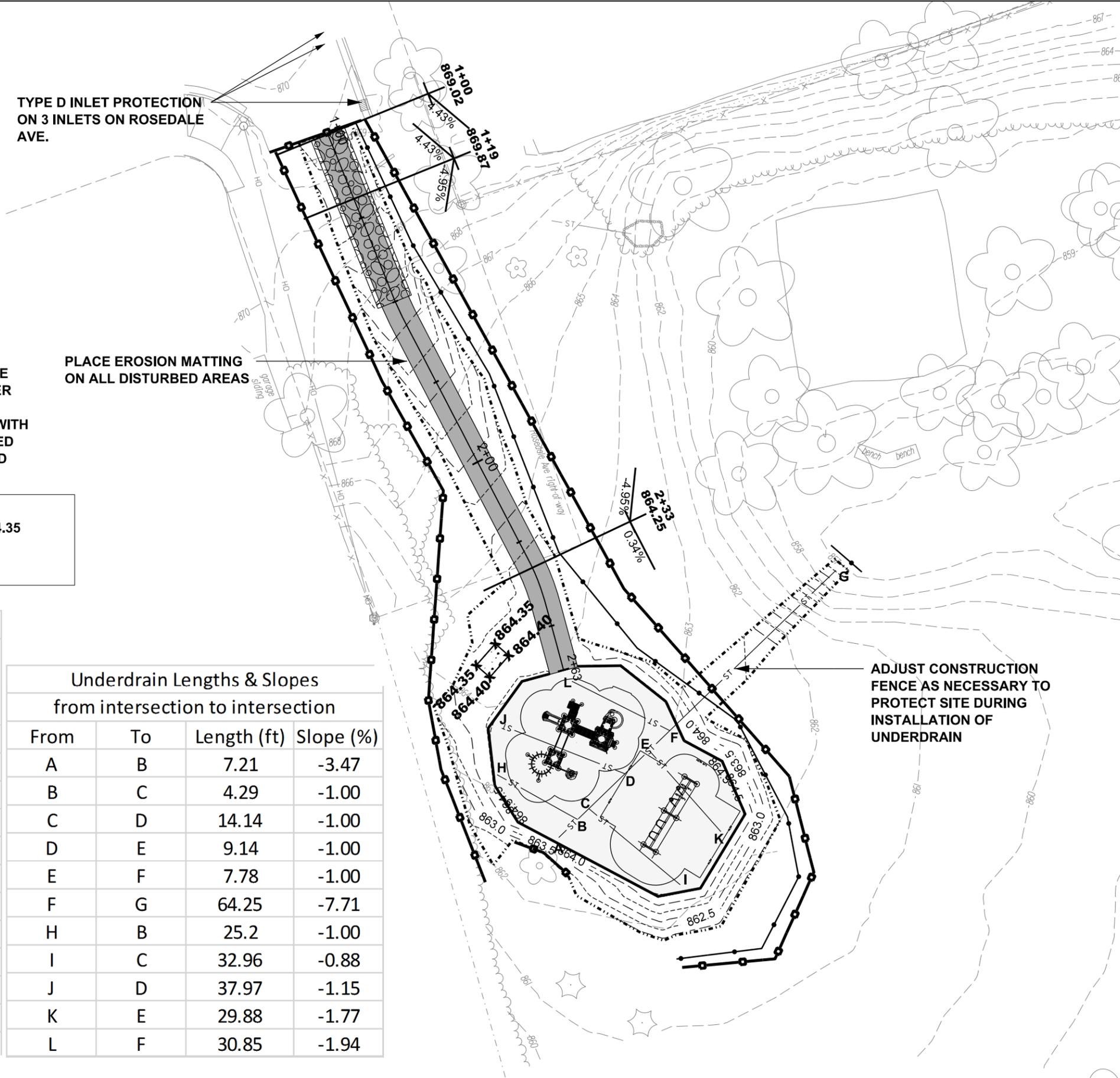
EDGE OF PLAYGROUND BORDER TIMBERS: 864.52
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 864.35
 PLAYGROUND SUBGRADE ELEVATION: 863.35
 ASPHALT AT PLAYGROUND ELEVATION: 864.35

Underdrain Invert (Flowline) Elevations

| Point | Invert (ft) | Distance from ground elevation and/or casting (ft) |
|-------|-------------|--|
| A | 862.76 | 1.59 |
| B | 862.51 | 1.84 |
| C | 862.47 | 1.88 |
| D | 862.33 | 2.02 |
| E | 862.23 | 2.12 |
| F | 862.16 | 2.19 |
| G | 857.20 | 7.15 |
| H | 862.76 | 1.59 |
| I | 862.76 | 1.59 |
| J | 862.76 | 1.59 |
| K | 862.76 | 1.59 |
| L | 862.76 | 1.59 |

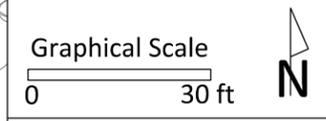
Underdrain Lengths & Slopes from intersection to intersection

| From | To | Length (ft) | Slope (%) |
|------|----|-------------|-----------|
| A | B | 7.21 | -3.47 |
| B | C | 4.29 | -1.00 |
| C | D | 14.14 | -1.00 |
| D | E | 9.14 | -1.00 |
| E | F | 7.78 | -1.00 |
| F | G | 64.25 | -7.71 |
| H | B | 25.2 | -1.00 |
| I | C | 32.96 | -0.88 |
| J | D | 37.97 | -1.15 |
| K | E | 29.88 | -1.77 |
| L | F | 30.85 | -1.94 |



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PROJECT:
2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3

BRIGHAM PARK
 911 ROSEDALE AVE.
 MADISON, WI 53714

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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
1.4

PROJECT:
**2017 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 3**

**BRIGHAM PARK
 911 ROSEDALE AVE.
 MADISON, WI 53714**

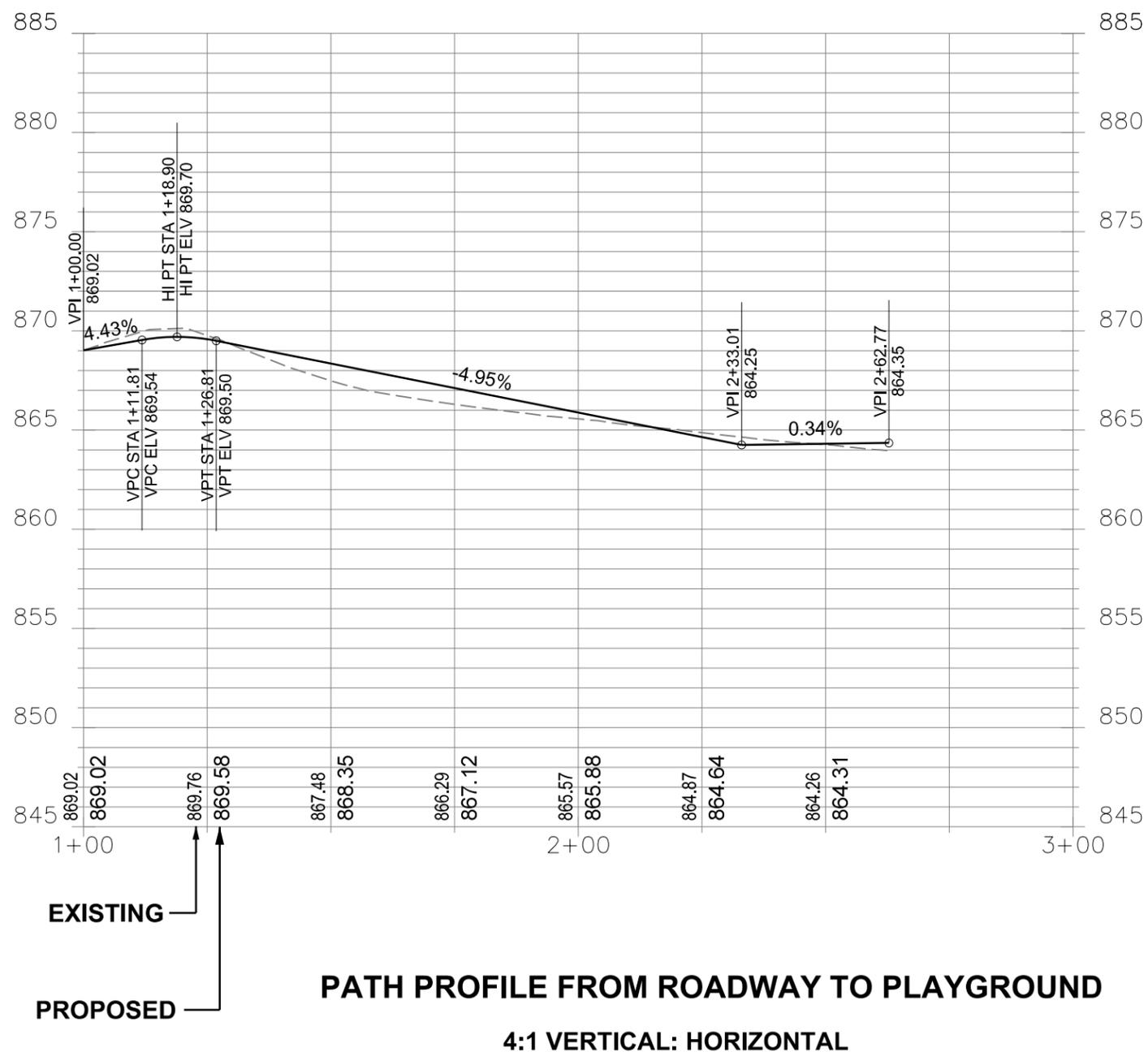
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
PATH PROFILE

SHEET NUMBER:
1.5



| 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 | 1477 | 0.50 | 739 | 27.4 | 0% | 27.4 |
| 1.2 | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1477 | varies | 529 | 19.6 | 0% | 19.6 |
| 1.3 | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1477 | varies | -145 | -5.4 | 0% | -5.4 |
| 1.4 | Grass to Asphalt | Gravel Place | Place 9in depth gravel base out to 6in from pavement edge | n/a | n/a | 1477 | -0.75 | -1108 | -41.0 | 0% | -41.0 |
| 1.5 | Grass to Asphalt | Asphalt Place | Place 3in asphalt (includes ramp into playground) | n/a | n/a | 1343 | -0.25 | -336 | -12.4 | 0% | -12.4 |
| 1.6 | Grass to Asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 134 | -0.25 | -34 | -1.2 | 0% | -1.2 |
| 2.1 | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 4043 | 0.50 | 2022 | 74.9 | 0% | 74.9 |
| 2.2 | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 4043 | varies | 144 | 5.3 | 0% | 5.3 |
| 2.3 | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 4043 | varies | -1870 | -69.3 | 0% | -69.3 |
| 2.4 | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 4043 | -0.50 | -2022 | -74.9 | 0% | -74.9 |
| 3.1 | Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 2980 | 0.50 | 1490 | 55.2 | 0% | 55.2 |
| 3.2 | Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 2980 | varies | 14 | 0.5 | 0% | 0.5 |
| 3.3 | Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 2980 | varies | -2452 | -90.8 | 0% | -90.8 |
| 3.4 | Grass to Play Surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 2980 | -1.00 | -2980 | -110.4 | 0% | -110.4 |
| 4.1 | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 66 | 0.50 | 33 | 1.2 | 0% | 1.2 |
| 4.2 | Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 66 | varies | 0 | 0.0 | 0% | 0.0 |
| 4.3 | Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 66 | varies | -75 | -2.8 | 0% | -2.8 |
| 4.4 | Grass to Timbers | Border Timbers Place (placeholder volume) | Border Timbers (placeholder volume to balance volume comps) | n/a | n/a | 66 | -1.00 | -66 | -2.4 | 0% | -2.4 |
| 5.1 | Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 40 | 0.50 | 20 | 0.7 | 0% | 0.7 |
| 5.2 | Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-7in | 40 | varies | 4 | 0.1 | 0% | 0.1 |
| 5.3 | Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-7in | 40 | varies | 0 | 0.0 | 0% | 0.0 |
| 5.4 | Grass to Concrete | Gravel Place | Place 2" of gravel | n/a | n/a | 40 | -0.16 | -6 | -0.2 | 0% | -0.2 |
| 5.4 | Grass to Concrete | Concrete Place | Place 5" of concrete | n/a | n/a | 40 | -0.41 | -16 | -0.6 | 0% | -0.6 |
| 6.1 | 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 |
| 6.2 | 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 |
| 7.1 | Adjust | Play Surface Excavate | Excavate play surface outside dtm | n/a | n/a | 2295 | 1.41 | 3236 | 119.9 | 0% | 119.9 |
| 7.2 | Adjust | Subsoil Place | outside dtm place soil within .5' of surface | n/a | n/a | 2295 | -0.91 | -2088 | -77.4 | 0% | -77.4 |
| 7.3 | Adjust | Topsoil Place | outside dtm place 6" of topsoil | n/a | n/a | 2295 | -0.50 | -1148 | -42.5 | 0% | -42.5 |

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 Factored (Uncompacted) Volume (cu yd) |
|---|--|
| Asphalt Place | -12.4 |
| Border Timbers Place (placeholder volume) | -2.4 |
| Play Surface Excavate | 119.9 |
| Play Surface Place | -110.6 |
| Subsoil Excavate | 25.8 |
| Subsoil Place | -245.6 |
| Topsoil Excavate | 159.4 |
| Topsoil Place | -118.6 |
| Concrete Place | -0.6 |
| Gravel Place | -41.3 |
| (blank) | |
| Grand Total | -226.5 |

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|--|
| 20101 Excavation Cut | 185 | CY | = Subsoil Excavate + Topsoil Excavate |
| 20103 Excavation Cut - Pea Gravel | 120 | CY | = Play Surface Excavate |
| 20201 Fill | 220 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 710 | SY | = (Topsoil Place)/-.167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 | 83 | tons | = (Gravel Place) * -2 ton/cubic yard |
| 40201 3" Depth HMA Pavement Type E-0.3 | 26.9 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| 90003 Playground Surfacing - Wood Mulch | 122 | CY | = Play Surface Place * -1.10 |

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play
MADISON PARKS

PROJECT:
2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3

**BRIGHAM PARK
911 ROSEDALE AVE.
MADISON, WI 53714**

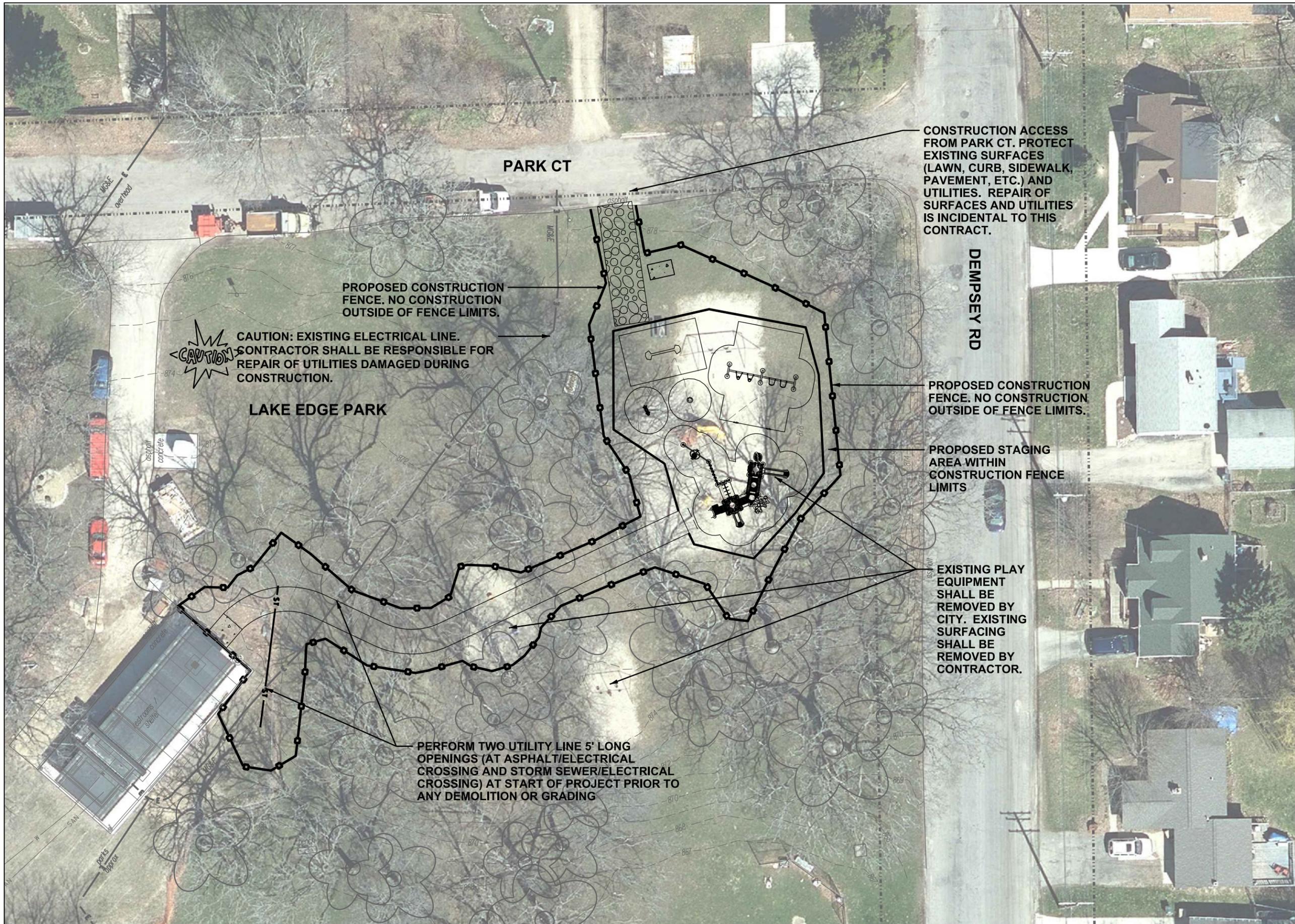
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ITEM _____ DATE _____
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PUBLIC WORKS PROJECT #:
7929

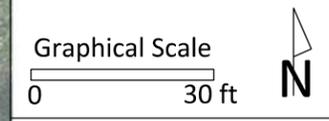
SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
1.6



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**MADISON
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PROJECT:
**2017 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 3**

**LAKE EDGE PARK
 511 PARK CT
 MADISON, WI 53716**

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PUBLIC WORKS PROJECT #:
7929

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

SHEET NUMBER:
2.1

LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  NO ROOT CUT PER BID ITEM 10803
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  APPROXIMATE PROPERTY LINE

NOTES

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

CAUTION: EXISTING ELECTRICAL. CONTRACTOR TO PERFORM TWO UTILITY LINE OPENINGS PRIOR TO GRADING PER BID ITEM 50801. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

REMOVE EXISTING TOPSOIL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

REMOVE EXISTING PEA GRAVEL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

REMOVE AND DISPOSE EX. BENCH AND CONCRETE SLAB

CAUTION

LAKE EDGE PARK

PARK CT.

DEMPSEY RD.

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play
MADISON PARKS

Graphical Scale
 0 20 ft 

PROJECT:
2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3

**LAKE EDGE PARK
 511 PARK CT
 MADISON, WI 53716**

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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
DEMOLITION & PROTECTION PLAN

SHEET NUMBER:
2.2

LEGEND

-  PRO. SPOT EL.
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  PRO. CONCRETE
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. GRADING LIMITS
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  PRO. UNDERDRAIN (SEE SHEET 2.5)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. APPROXIMATE PROPERTY LINE

NOTES

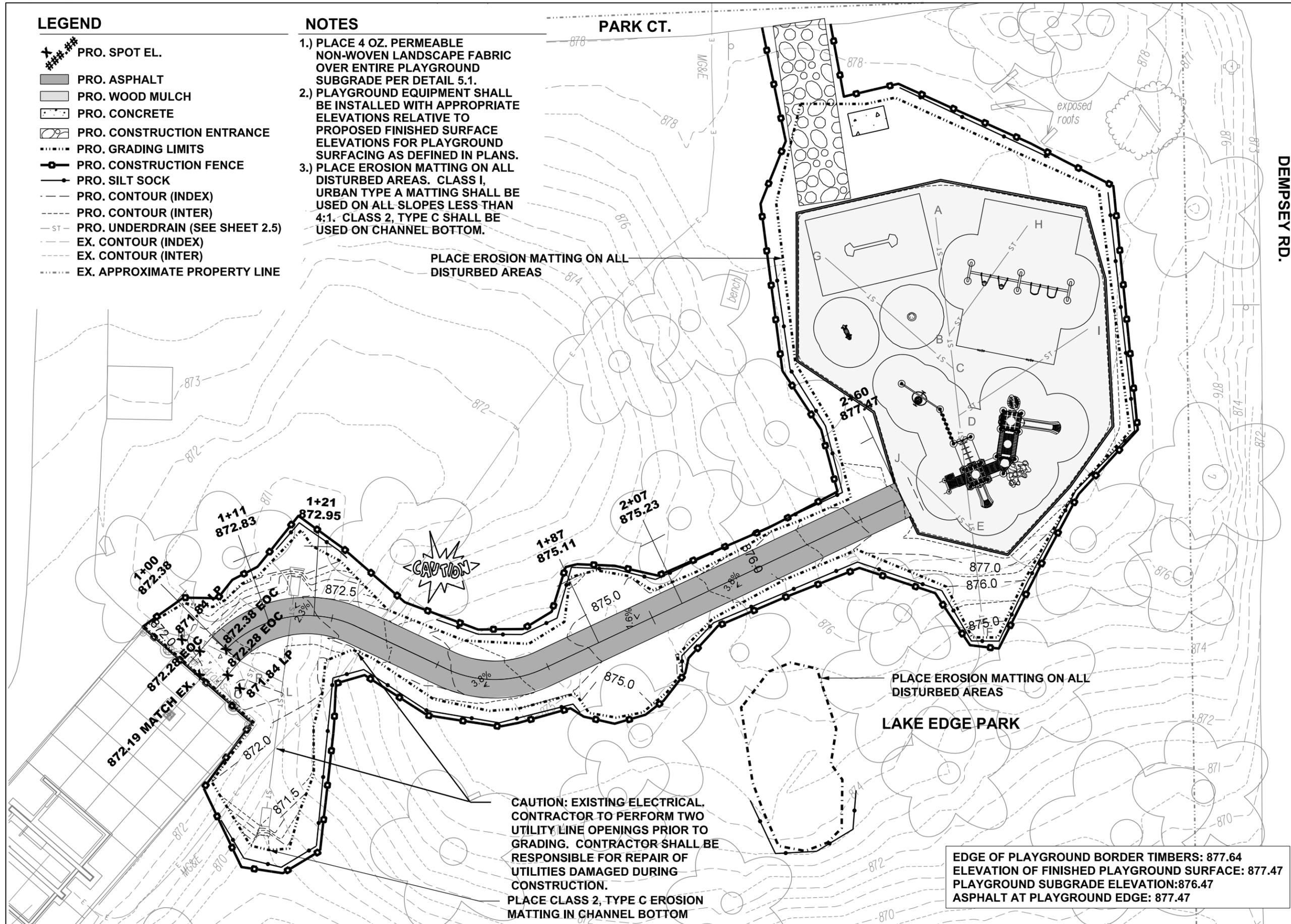
- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 5.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.
- 3.) PLACE EROSION MATTING ON ALL DISTURBED AREAS. CLASS I, URBAN TYPE A MATTING SHALL BE USED ON ALL SLOPES LESS THAN 4:1. CLASS 2, TYPE C SHALL BE USED ON CHANNEL BOTTOM.

PLACE EROSION MATTING ON ALL DISTURBED AREAS

PLACE EROSION MATTING ON ALL DISTURBED AREAS

CAUTION: EXISTING ELECTRICAL. CONTRACTOR TO PERFORM TWO UTILITY LINE OPENINGS PRIOR TO GRADING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.
PLACE CLASS 2, TYPE C EROSION MATTING IN CHANNEL BOTTOM

EDGE OF PLAYGROUND BORDER TIMBERS: 877.64
ELEVATION OF FINISHED PLAYGROUND SURFACE: 877.47
PLAYGROUND SUBGRADE ELEVATION: 876.47
ASPHALT AT PLAYGROUND EDGE: 877.47



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PLAYGROUND
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PUBLIC WORKS PROJECT #:
7929

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

SHEET NUMBER:
2.4



PROJECT:
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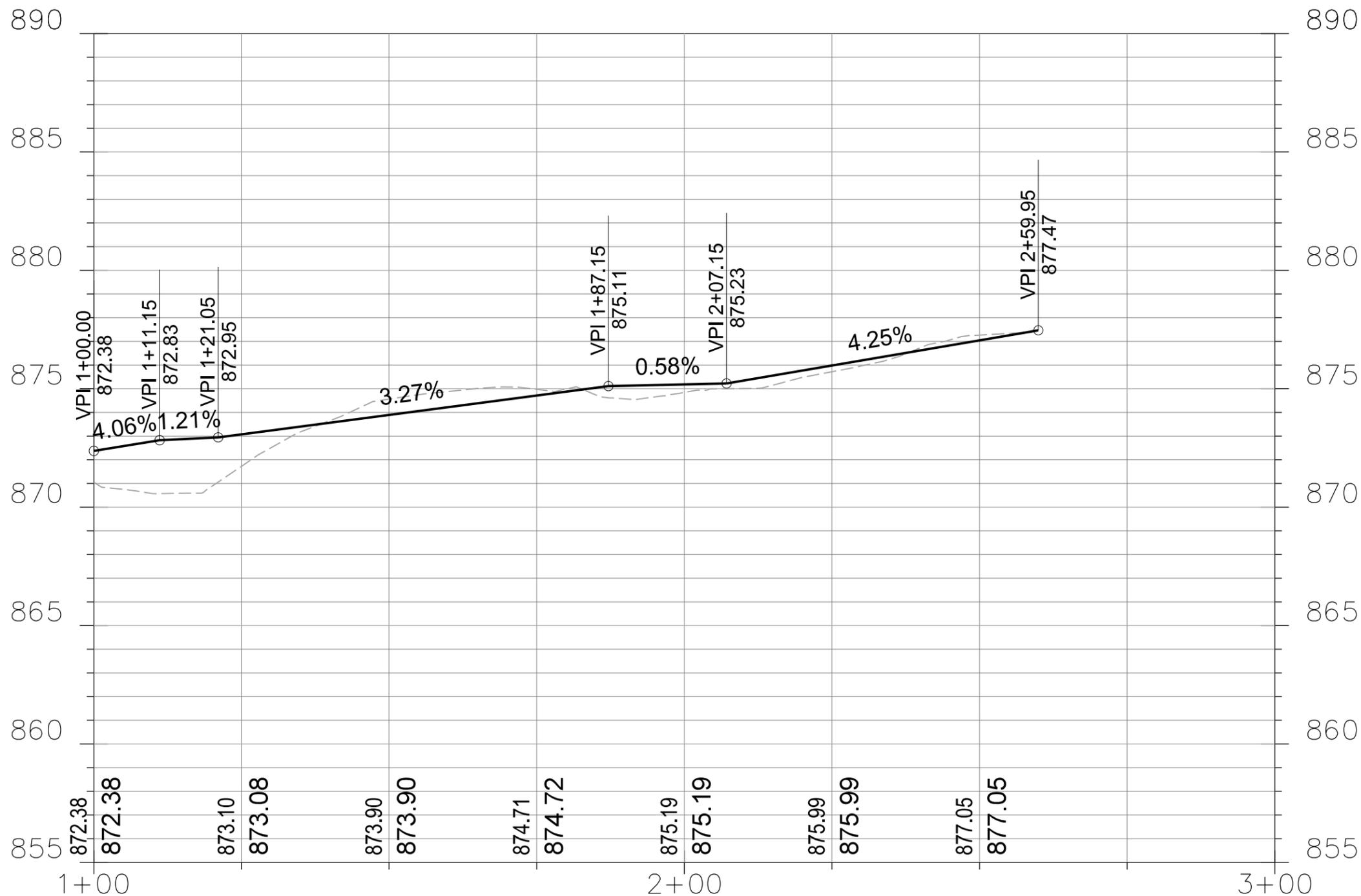
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
**PATH
 PROFILE**

SHEET NUMBER:
2.5



LEGEND

- ST— 12" STORM SEWER
- ST— UNDERDRAIN
- - - EX. CONTOUR (INDEX)
- - - EX. CONTOUR (INTER)
- EX. APPROXIMATE PROPERTY LINE

PARK CT.

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:
2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3

**LAKE EDGE PARK
 511 PARK CT
 MADISON, WI 53716**

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: SCL | 04-28-2017 |
| | |
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| | |
| | |

PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
STORM SEWER PLAN

SHEET NUMBER:
2.6

| Underdrain Lengths & Slopes from intersection to intersection | | | | |
|---|----|-------------|-----------|------------|
| PLAYGROUND | | | | |
| From | To | Length (ft) | Slope (%) | PIPE TYPE |
| A | B | 25.17 | -1.00 | UNDERDRAIN |
| B | C | 7.49 | -1.00 | UNDERDRAIN |
| C | D | 10.73 | -1.00 | UNDERDRAIN |
| D | E | 24.71 | -1.00 | UNDERDRAIN |
| E | F | 18.97 | -0.84 | UNDERDRAIN |
| H | B | 28.01 | -0.89 | UNDERDRAIN |
| G | C | 36.06 | -0.92 | UNDERDRAIN |
| I | D | 33.03 | -1.30 | UNDERDRAIN |
| J | E | 21.38 | -3.18 | UNDERDRAIN |
| SHELTER | | | | |
| N | P | 15.89 | -3.78 | UNDERDRAIN |
| P | L | 7.11 | -3.79 | UNDERDRAIN |
| O | P | 5.35 | -3.75 | UNDERDRAIN |

| Underdrain Invert (Flowline) Elevations | | |
|---|-------------|--|
| PLAYGROUND | | |
| Point | Invert (ft) | Distance from ground elevation and/or casting (ft) |
| A | 875.89 | 1.58 |
| B | 875.64 | 1.83 |
| C | 875.56 | 1.91 |
| D | 875.46 | 2.01 |
| E | 875.21 | 2.26 |
| F | 875.05 | 2.42 |
| G | 875.89 | 1.58 |
| H | 875.89 | 1.58 |
| I | 875.89 | 1.58 |
| J | 875.89 | 1.58 |
| SHELTER/PATH | | |
| L | 870.13 | 2.37 |
| N | 870.54 | 1.3 |
| O | 870.6 | 1.38 |
| P | 870.4 | 1.7 |

UNDERDRAIN PER BID ITEM 20130 SEE SCHEDULE, UNDERDRAIN SHALL BE CONNECTED TO 12" STORM VIA INSTERT-A-TEE OR EQUIVALENT PER BID ITEM 50455

INV. 870.6

APRON END WALL W/ GATE PER BID ITEMS 50461 AND 50601 CONCRETE COLLAR

12" STORM SEWER PER BID ITEM 50432

CAUTION: EXISTING ELECTRICAL CONTRACTOR TO PERFORM UTILITY LINE OPENING PRIOR TO GRADING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

CONCRETE COLLAR

INV. 869.5

OUTFALL - APRON END WALL W/ GATE PER BID ITEMS 50431 AND 50601

UNDERDRAIN PER BID ITEM 20130 SEE SCHEDULE

LAKE EDGE PARK

PROJECT:
**2017 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 3**

**LAKE EDGE PARK
 511 PARK CT
 MADISON, WI 53716**

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: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
2.7

LEGEND

-  MONARDA FISTULOSA
-  DESCHAMPسيا CESPITOSA 'GOLDTAU'
-  PRO. GRANITE BOULDER, 12"-24"

(3) FIELDSTONE ORNAMENTAL BOULDER

(3) MONARDA FISTULOSA

(7) DESCHAMPسيا CEPSTIOSA 'GOLDTAU'

STONE DRAIN PER BID ITEM 90009- SEE
 DETAIL BELOW

(5) DESCHAMPسيا CEPSTIOSA 'GOLDTAU'

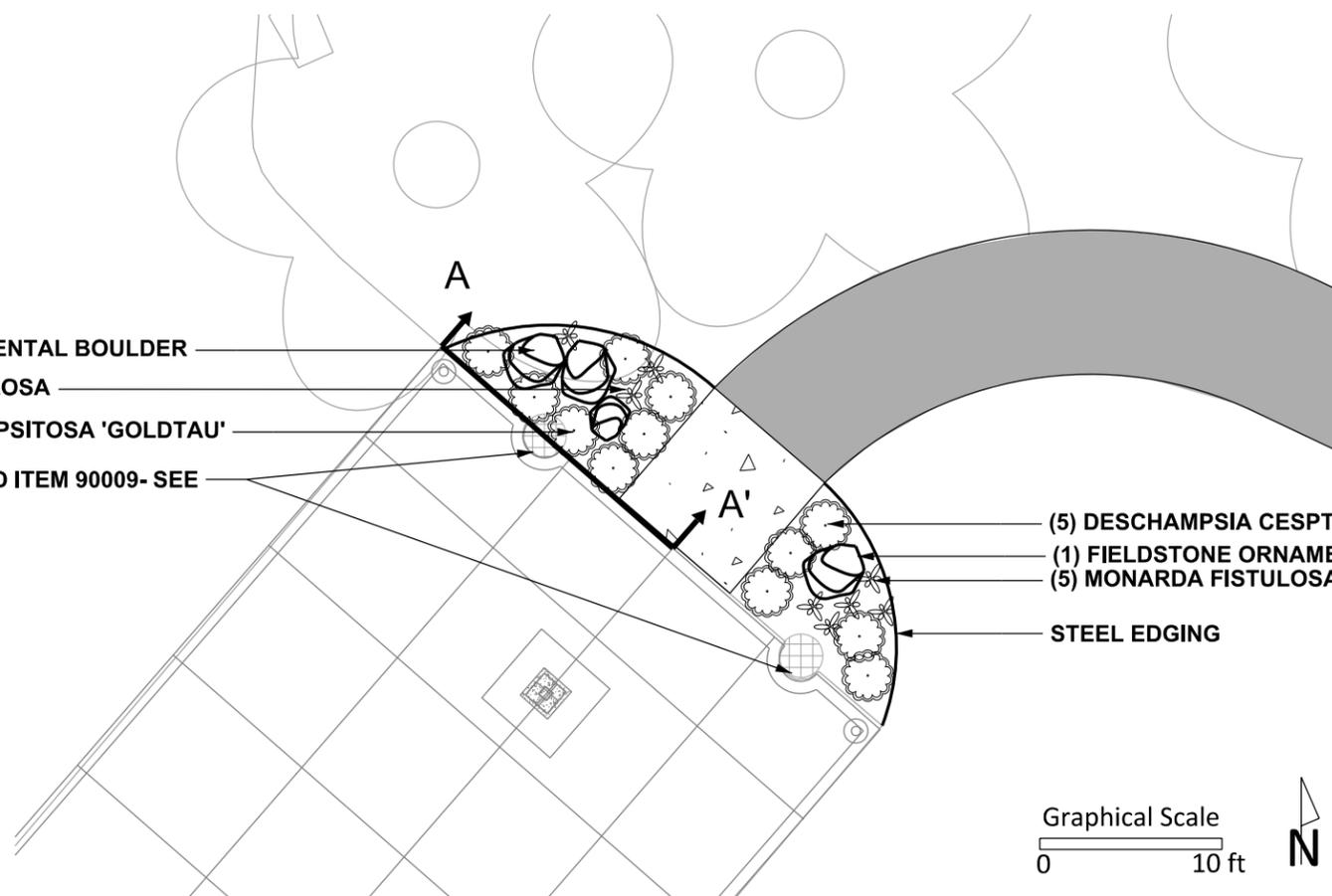
(1) FIELDSTONE ORNAMENTAL BOULDER

(5) MONARDA FISTULOSA

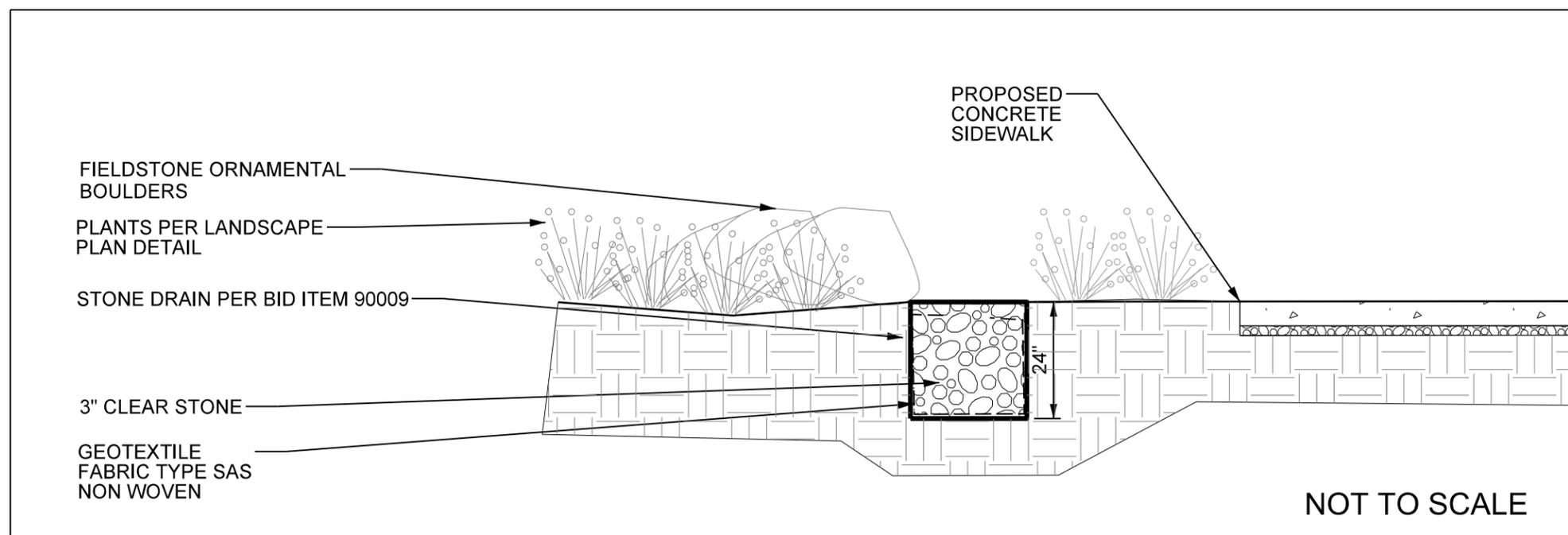
STEEL EDGING

NOTES

- 1.) LANDSCAPE PLANTS SHALL BE INSTALLED PER BID ITEM 20901.
- 2.) FIELDSTONE ORNAMENTAL BOULDER SHALL BE INSTALLED PER BID ITEM 90008.



LANDSCAPE PLAN - DETAIL



SECTION A - A' LANDSCAPE BED

NOT TO SCALE

| 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 | 1151 | 0.50 | 576 | 21.3 | 0% | 21.3 |
| 1.2 | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1151 | varies | 545 | 20.2 | 0% | 20.2 |
| 1.3 | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1151 | varies | -358 | -13.3 | 0% | -13.3 |
| 1.4 | Grass to Asphalt | Gravel Place | Place 9in depth gravel base out to 6in from pavement edge | n/a | n/a | 1151 | -0.75 | -863 | -32.0 | 0% | -32.0 |
| 1.5 | Grass to Asphalt | Asphalt Place | Place 3in asphalt (includes ramp into playground) | n/a | n/a | 1022 | -0.25 | -256 | -9.5 | 0% | -9.5 |
| 1.6 | Grass to Asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 129 | -0.25 | -32 | -1.2 | 0% | -1.2 |
| 2.1 | Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 104 | 0.50 | 52.00 | 1.9 | 0% | 1.9 |
| 2.2 | Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-7in | 104 | varies | 2.16 | 0.1 | 0% | 0.1 |
| 2.3 | Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-7in | 104 | varies | -36.15 | -1.3 | 0% | -1.3 |
| 2.4 | Grass to Concrete | Concrete Place | Place 5" of concrete | n/a | n/a | 104 | -0.41 | -43.02 | -1.6 | 0% | -1.6 |
| 2.4 | Grass to Concrete | Gravel Place | Place 2" of aggregate | n/a | n/a | 104 | -0.17 | -17.37 | -0.6 | 0% | -0.6 |
| 3.1 | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 2914 | 0.50 | 1457.00 | 54.0 | 0% | 54.0 |
| 3.2 | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 2914 | varies | 68.78 | 2.5 | 0% | 2.5 |
| 3.3 | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 2914 | varies | -1122.51 | -41.6 | 0% | -41.6 |
| 3.4 | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 2914 | -0.50 | -1457.00 | -54.0 | 0% | -54.0 |
| 4.1 | Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1584 | 0.50 | 792 | 29.3 | 0% | 29.3 |
| 4.2 | Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1584 | varies | 1370 | 50.7 | 0% | 50.7 |
| 4.3 | Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1584 | varies | 0 | 0.0 | 0% | 0.0 |
| 4.4 | Grass to Play Surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 1584 | -1.00 | -1584 | -58.7 | 0% | -58.7 |
| 5.1 | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 57 | 0.50 | 28 | 1.0 | 0% | 1.0 |
| 5.2 | Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 57 | varies | 24 | 0.9 | 0% | 0.9 |
| 5.3 | Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 57 | varies | -1 | 0.0 | 0% | 0.0 |
| 5.4 | Grass to Timbers | Border Timbers Place (placeholder volume) | Border Timbers (placeholder volume to balance volume comps) | n/a | n/a | 57 | -1.00 | -57 | -2.1 | 0% | -2.1 |
| 6.1 | Play surface to grass | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 822 | 1.41 | 1159 | 42.9 | 0% | 42.9 |
| 6.2 | Play surface to grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-6in | 822 | varies | 0 | 0.0 | 0% | 0.0 |
| 6.3 | Play surface to grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 822 | varies | -860 | -31.8 | 0% | -31.8 |
| 6.4 | Play surface to grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 822 | -0.50 | -411 | -15.2 | 0% | -15.2 |

| | | | | | | | | | | | |
|------|------------------------------|---------------------|---|---------|----------|------|--------|-------|-------|----|-------|
| 7.1 | Play surface to play surface | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 2497 | 1.41 | 3521 | 130.4 | 0% | 130.4 |
| 7.2 | Play surface to play surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 2497 | varies | 198 | 7.3 | 0% | 7.3 |
| 7.3 | Play surface to play surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 2497 | varies | -277 | -10.2 | 0% | -10.2 |
| 7.4 | Play surface to play surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 2497 | -1.00 | -2497 | -92.5 | 0% | -92.5 |
| 8.1 | Play surface to timbers | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 23 | 1.41 | 33 | 1.2 | 0% | 1.2 |
| 8.2 | Play surface to timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 23 | varies | 0 | 0.0 | 0% | 0.0 |
| 8.3 | Play surface to timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 23 | varies | -11 | -0.4 | 0% | -0.4 |
| 8.4 | Play surface to timbers | Timber Place | Place 12inches of timbers | n/a | n/a | 23 | -1.00 | -23 | -0.9 | 0% | -0.9 |
| 9.1 | Play surface to Asphalt | Pea Gravel Excavate | Strip 17in play surface | n/a | n/a | 286 | 1.41 | 404 | 15.0 | 0% | 15.0 |
| 9.2 | Play surface to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 286 | varies | 0 | 0.0 | 0% | 0.0 |
| 9.3 | Play surface to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 286 | varies | -181 | -6.7 | 0% | -6.7 |
| 9.4 | Play surface to Asphalt | Gravel Place | Place 9in depth gravel base out to 6in from pavement edge | n/a | n/a | 286 | -0.75 | -215 | -8.0 | 0% | -8.0 |
| 9.5 | Play surface to Asphalt | Asphalt Place | Place 3in asphalt (includes ramp into playground) | n/a | n/a | 254 | -0.25 | -64 | -2.4 | 0% | -2.4 |
| 9.6 | Play surface to Asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 32 | -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 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 |
| 10.2 | 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 |
| 10.3 | 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 |
| 10.4 | 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 |
| 11.1 | Adjust | Pea Gravel Excavate | outside dtm | n/a | n/a | 613 | 1.41 | 864 | 32.0 | 0% | 32.0 |
| 11.2 | Adjust | Subsoil Place | Place subsoil to within 6" of grade | n/a | n/a | 613 | -0.91 | -558 | -20.7 | 0% | -20.7 |
| 11.3 | Adjust | Topsoil 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 | 613 | -0.50 | -307 | -11.4 | 0% | -11.4 |

| Reorganized into bid table items | | | |
|---|----------|-------|--|
| Bid Item | Quantity | Units | Relation to Table Above |
| 20101 Excavation Cut | 190 | CY | = Subsoil Excavate + Topsoil Excavate |
| 20103 Excavation Cut - Pea Gravel | 222 | CY | = Pea Gravel Excavate |
| 20201 Fill | 44 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 491 | SY | = (Topsoil Place)/-.167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 | 81 | tons | = (Gravel Place) * -2 ton/cubic yard |
| 40201 3" Depth HMA Pavement Type E-0.3 | 25.5 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| 90003 Playground Surfacing - Wood Mulch | 167 | CY | = Play Surface Place * -1.10 |

**Lake Edge Park
Playground - Earthwork
Quantities**
City of Madison Public Works Contra
Date Revised: 4/13/2017

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 Factored (Uncompacted) Volume (cu yd) |
|---|--|
| Asphalt Place | -11.8 |
| Border Timbers Place (placeholder volume) | -2.1 |
| Play Surface Place | -151.6 |
| Subsoil Excavate | 82.3 |
| Subsoil Place | -126.0 |
| Topsoil Excavate | 107.6 |
| Topsoil Place | -82.0 |
| Concrete Place | -1.6 |
| Gravel Place | -40.6 |
| Pea Gravel Excavate | 221.5 |
| Timber Place | -0.9 |
| Grand Total | -5.2 |

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:

**2017 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 3**

**LAKE EDGE PARK
511 PARK CT
MADISON, WI 53716**

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: SCL 04-28-2017

PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
**DESIGN
COMPUTATIONS**

SHEET NUMBER:
2.8

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



PROJECT:
*2017
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 3*

*MCGINNIS PARK
 9 CRYSTAL LN
 MADISON, WI 53714*

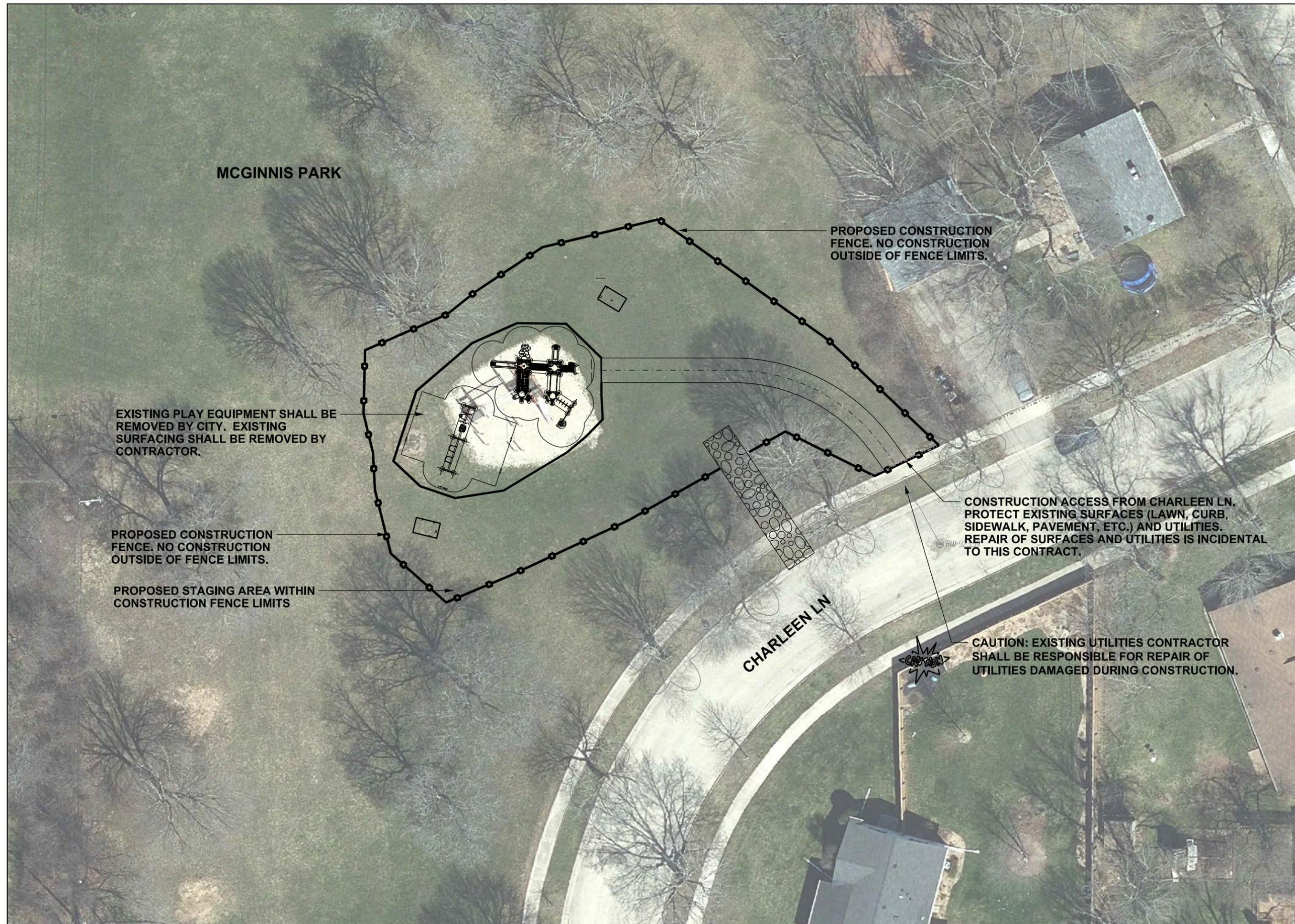
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

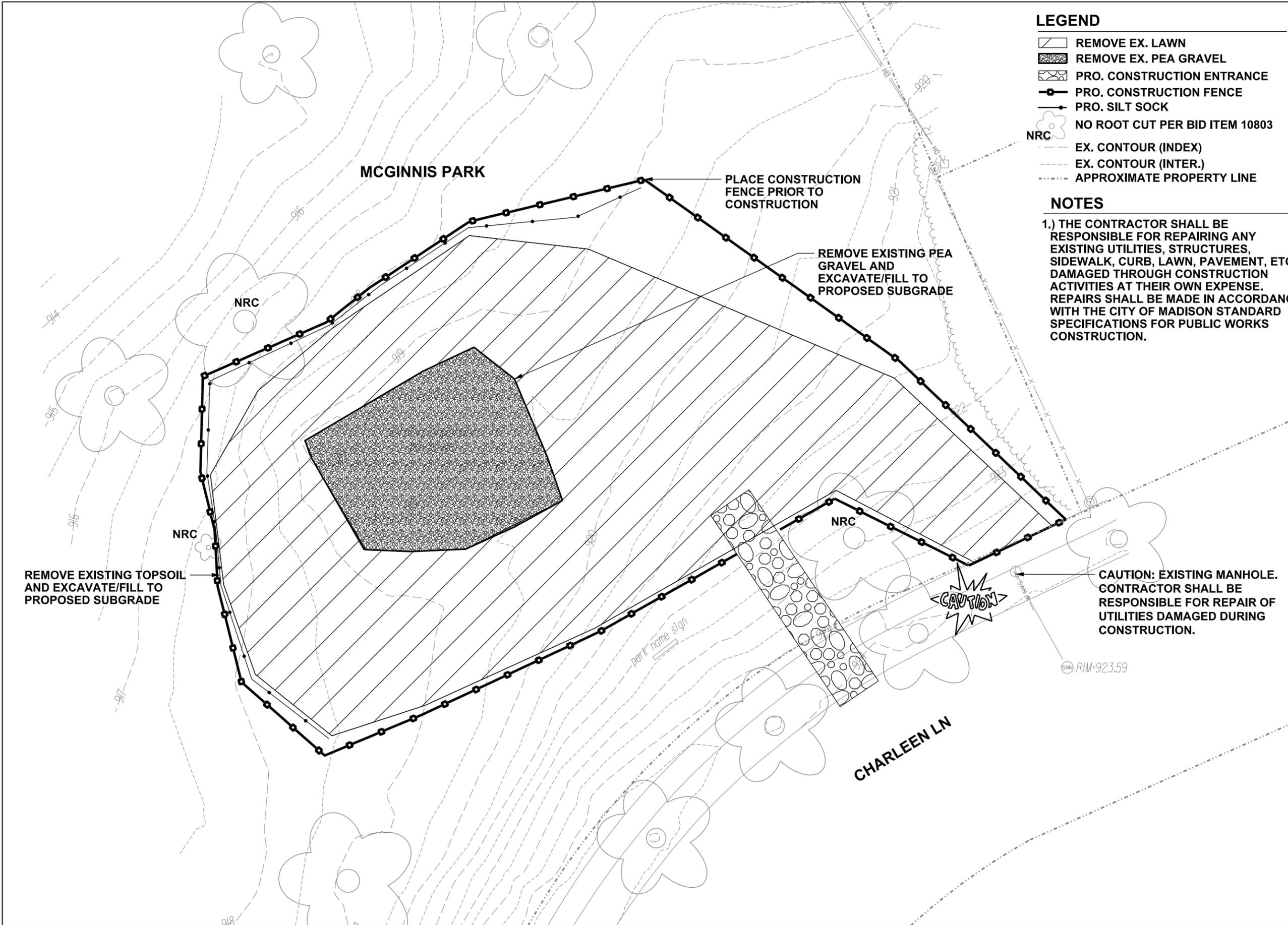
| ITEM | DATE |
|--------------------|------------|
| Advertised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

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

SHEET NUMBER:
3.1





LEGEND

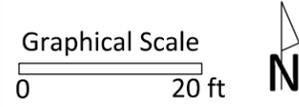
- REMOVE EX. LAWN
- REMOVE EX. PEA GRAVEL
- PRO. CONSTRUCTION ENTRANCE
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- NO ROOT CUT PER BID ITEM 10803
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- APPROXIMATE PROPERTY LINE

NOTES

1.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS SHALL 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



PROJECT:
2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3

MCGINNIS PARK
9 CRYSTAL LN.
MADISON, WI 53714

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| ITEM | DATE |
|-----------------|------------|
| Advised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
DEMOLITION & PROTECTION PLAN

SHEET NUMBER:
3.2



PROJECT:
**2017 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 3**

**MCGINNIS PARK
 9 CRYSTAL LN.
 MADISON, WI 53714**

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| ITEM | DATE |
|-----------------|------------|
| Advised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
SITE PLAN

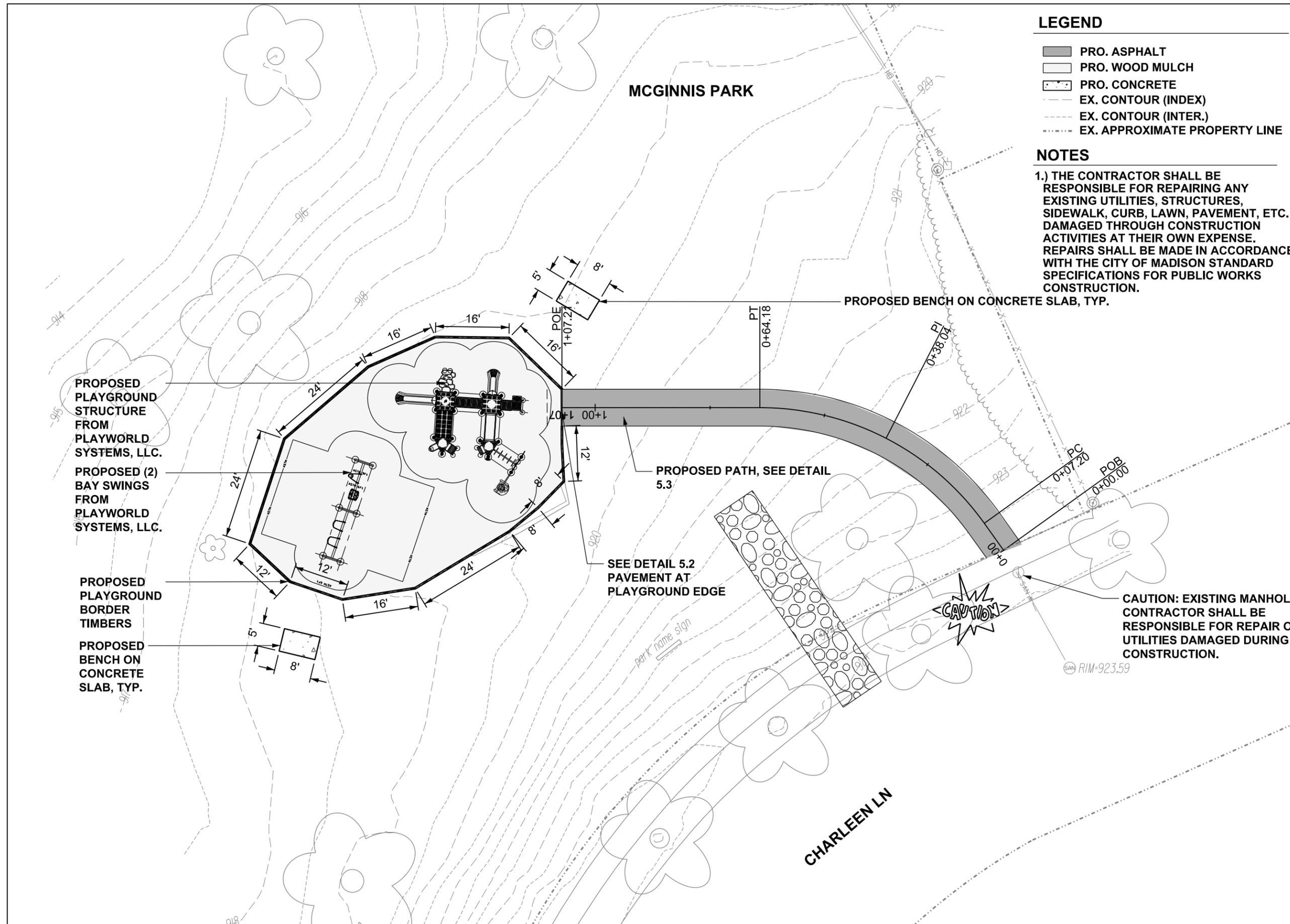
SHEET NUMBER:
3.3

LEGEND

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

NOTES

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



LEGEND

- PRO. SPOT EL.
- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- PRO. CONSTRUCTION ENTRANCE
- PRO. GRADING LIMITS
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- PRO. UNDERDRAIN
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROXIMATE PROPERTY LINE

NOTES

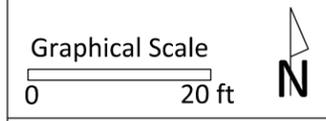
- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 5.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.
- 3.) PLACE EROSION MATTING ON ALL DISTURBED AREAS.

| Underdrain Lengths & Slopes from intersection to intersection | | | |
|--|----|-------------|-----------|
| From | To | Length (ft) | Slope (%) |
| A | B | 18.01 | -1.00 |
| B | C | 1.43 | -1.00 |
| C | D | 11.2 | -1.00 |
| D | E | 12.03 | -1.00 |
| E | F | 4.91 | -1.00 |
| F | G | 23.49 | -3.70 |
| H | C | 14.96 | -1.27 |
| I | F | 31.39 | -1.50 |
| J | B | 18.03 | -1.00 |
| K | D | 23.32 | -1.33 |
| L | E | 31.69 | -1.36 |

| Underdrain Invert (Flowline) Elevations | | |
|---|-------------|--|
| Point | Invert (ft) | Distance from ground elevation and/or casting (ft) |
| A | 918.51 | 0.92 |
| B | 918.33 | 1.10 |
| C | 918.32 | 1.11 |
| D | 918.20 | 1.23 |
| E | 918.08 | 1.35 |
| F | 918.04 | 1.39 |
| G | 917.17 | 2.26 |
| H | 918.51 | 0.92 |
| I | 918.51 | 0.92 |
| J | 918.51 | 0.92 |
| K | 918.51 | 0.92 |
| L | 918.51 | 0.92 |

City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
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play
MADISON PARKS



PROJECT:
2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3

MCGINNIS PARK
 9 CRYSTAL LN.
 MADISON, WI 53714

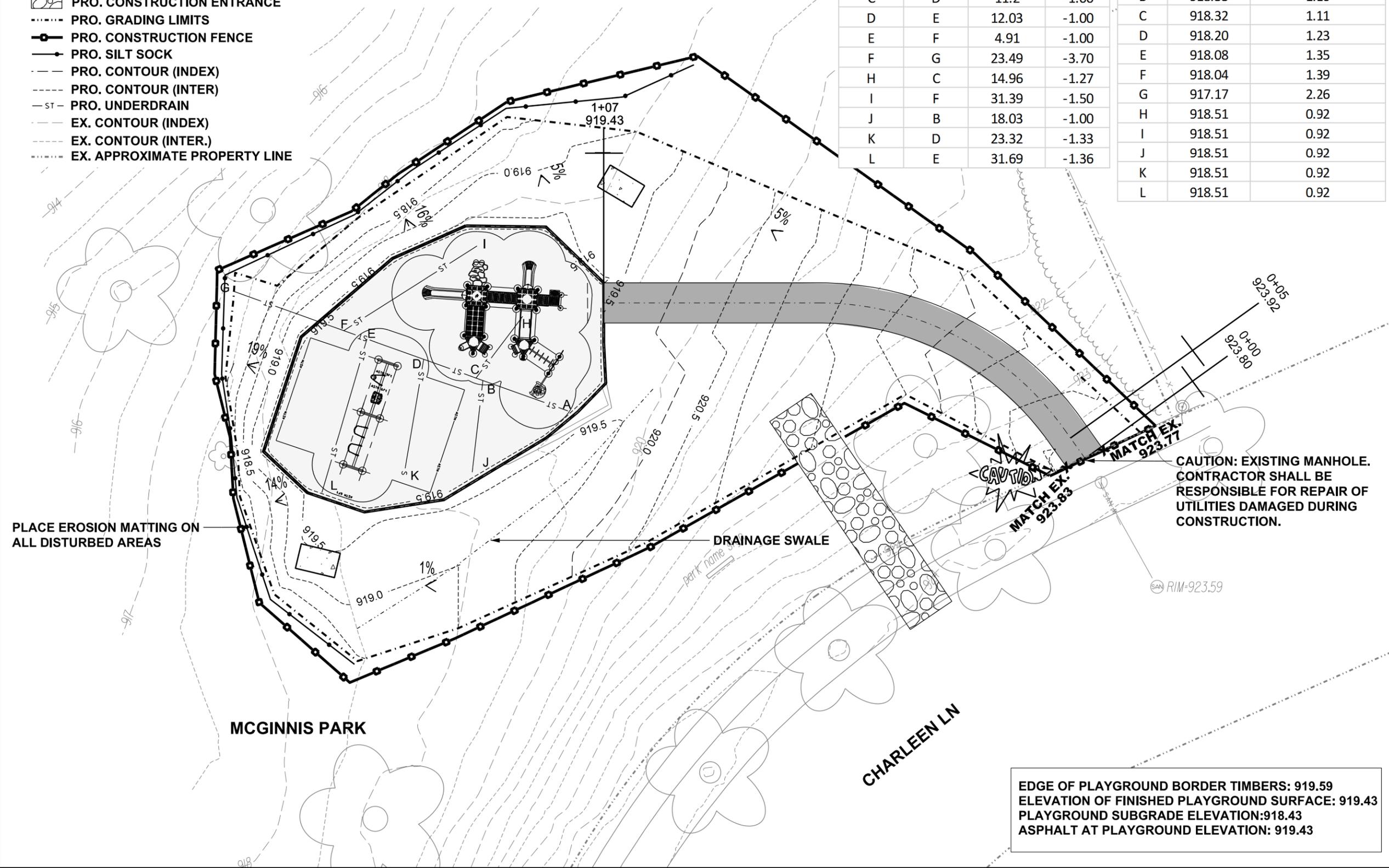
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| ITEM | DATE |
|-----------------|------------|
| Advised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
3.4



EDGE OF PLAYGROUND BORDER TIMBERS: 919.59
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 919.43
 PLAYGROUND SUBGRADE ELEVATION: 918.43
 ASPHALT AT PLAYGROUND ELEVATION: 919.43

City of Madison
Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
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PROJECT:
**2017 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 3**

**MCGINNIS PARK
9 CRYSTAL LN.
MADISON, WI 53714**

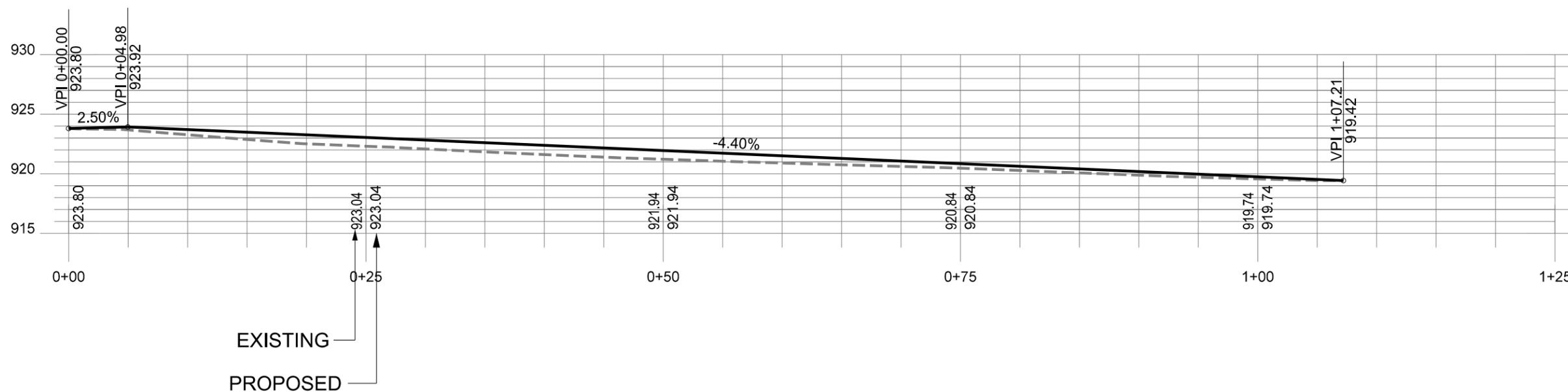
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|-----------------|------------|
| Advised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
PATH PROFILE

SHEET NUMBER:
3.5



PATH PROFILE FROM CHARLEEN LN SIDEWALK TO PLAYGROUND

4:1 VERTICAL: HORIZONTAL

| 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 | 967 | 0.50 | 483 | 17.9 | 0% | 17.9 |
| 1.2 | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 967 | varies | 98 | 3.6 | 0% | 3.6 |
| 1.3 | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 967 | varies | -94 | -3.5 | 0% | -3.5 |
| 1.4 | Grass to Asphalt | Gravel Place | Place 9in depth gravel base out to 6in from pavement edge | n/a | n/a | 967 | -0.75 | -725 | -26.9 | 0% | -26.9 |
| 1.5 | Grass to Asphalt | Asphalt Place | Place 3in asphalt (includes ramp into playground) | n/a | n/a | 859 | -0.25 | -215 | -8.0 | 0% | -8.0 |
| 1.6 | Grass to Asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 108 | -0.25 | -27 | -1.0 | 0% | -1.0 |
| 2.1 | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 7020 | 0.50 | 3510.00 | 130.0 | 0% | 130.0 |
| 2.2 | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 7020 | varies | 123.09 | 4.6 | 0% | 4.6 |
| 2.3 | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 7020 | varies | -2159.64 | -80.0 | 0% | -80.0 |
| 2.4 | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 7020 | -0.50 | -3510.00 | -130.0 | 0% | -130.0 |
| 3.1 | Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1111 | 0.50 | 555 | 20.6 | 0% | 20.6 |
| 3.2 | Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1111 | varies | 177 | 6.6 | 0% | 6.6 |
| 3.3 | Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1111 | varies | -133 | -4.9 | 0% | -4.9 |
| 3.4 | Grass to Play Surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 1111 | -1.00 | -1111 | -41.1 | 0% | -41.1 |
| 4.1 | Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 40 | 0.50 | 20 | 0.7 | 0% | 0.7 |
| 4.2 | Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-7in | 40 | varies | 0 | 0.0 | 0% | 0.0 |
| 4.3 | Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-7in | 40 | varies | -40 | -1.5 | 0% | -1.5 |
| 4.4 | Grass to Concrete | Gravel Place | Place 2" aggregate base | n/a | n/a | 40 | -0.16 | -6 | -0.2 | 0% | -0.2 |
| 4.4 | Grass to Concrete | Concrete Place | Place 5" concrete | n/a | n/a | 40 | -0.42 | -17 | -0.6 | 0% | -0.6 |
| 5.1 | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 57 | 0.50 | 29 | 1.1 | 0% | 1.1 |
| 5.2 | Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 57 | varies | 6 | 0.2 | 0% | 0.2 |
| 5.3 | Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 57 | varies | -15 | -0.6 | 0% | -0.6 |
| 5.4 | Grass to Timbers | Border Timbers Place (placeholder volume) | Border Timbers (placeholder volume to balance volume comps) | n/a | n/a | 57 | -1.00 | -57 | -2.1 | 0% | -2.1 |
| 6.1 | Play surface to grass | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 21 | 1.42 | 30 | 1.1 | 0% | 1.1 |
| 6.2 | Play surface to grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-6in | 21 | varies | 0 | 0.0 | 0% | 0.0 |
| 6.3 | Play surface to grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 21 | varies | -20 | -0.7 | 0% | -0.7 |
| 6.4 | Play surface to grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 21 | -0.50 | -11 | -0.4 | 0% | -0.4 |
| 7.1 | Play surface to play surface | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 1583 | 1.42 | 2248 | 83.3 | 0% | 83.3 |
| 7.2 | Play surface to play surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 1583 | 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 | 1583 | varies | -1233 | -45.7 | 0% | -45.7 |
| 7.4 | Play surface to play surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 1583 | -1.00 | -1583 | -58.6 | 0% | -58.6 |
| 8.1 | Play surface to timbers | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 6 | 1.42 | 8 | 0.3 | 0% | 0.3 |
| 8.2 | Play surface to timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 6 | varies | 0 | 0.0 | 0% | 0.0 |
| 8.3 | Play surface to timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 6 | 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 | 6 | -1.00 | -6 | -0.2 | 0% | -0.2 |
| 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 |

McGinnis Park Playground - Earthwork Quantities

City of Madison Public Works Contract
Date Revised: 4/10/2017

Derived from more detailed spreadsheet available from Parks Division

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 | -8.0 |
| Border Timbers Place (placeholder volume) | -2.3 |
| Play Surface Place | -100.0 |
| Subsoil Excavate | 15.2 |
| Subsoil Place | -136.9 |
| Topsoil Excavate | 170.3 |
| Topsoil Place | -131.4 |
| Concrete Place | -0.6 |
| Gravel Place | -27.1 |
| Pea Gravel Excavate | 84.7 |
| Grand Total | -136.1 |

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|--|
| 20101 Excavation Cut | 185 | CY | = Subsoil Excavate + Topsoil Excavate |
| 20103 Excavation Cut - Pea Gravel | 85 | CY | = Pea Gravel Excavate |
| 20201 Fill | 122 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 787 | SY | = (Topsoil Place)/-167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 | 54 | tons | = (Gravel Place) * -2 ton/cubic yard |
| 40201 3" Depth HMA Pavement Type E-0.3 | 17.2 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| 90003 Playground Surfacing - Wood Mulch | 110 | 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

play
**MADISON
PARKS**

PROJECT:

**2017 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 3**

**MCGINNIS PARK
9 CRYSTAL LN
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: SCL 04-28-2017

PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
**DESIGN
COMPUTATIONS**

SHEET NUMBER:
3.6



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 30 ft

PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**TENNEY PARK
 1414 E. JOHNSON ST
 MADISON, WI 53703**

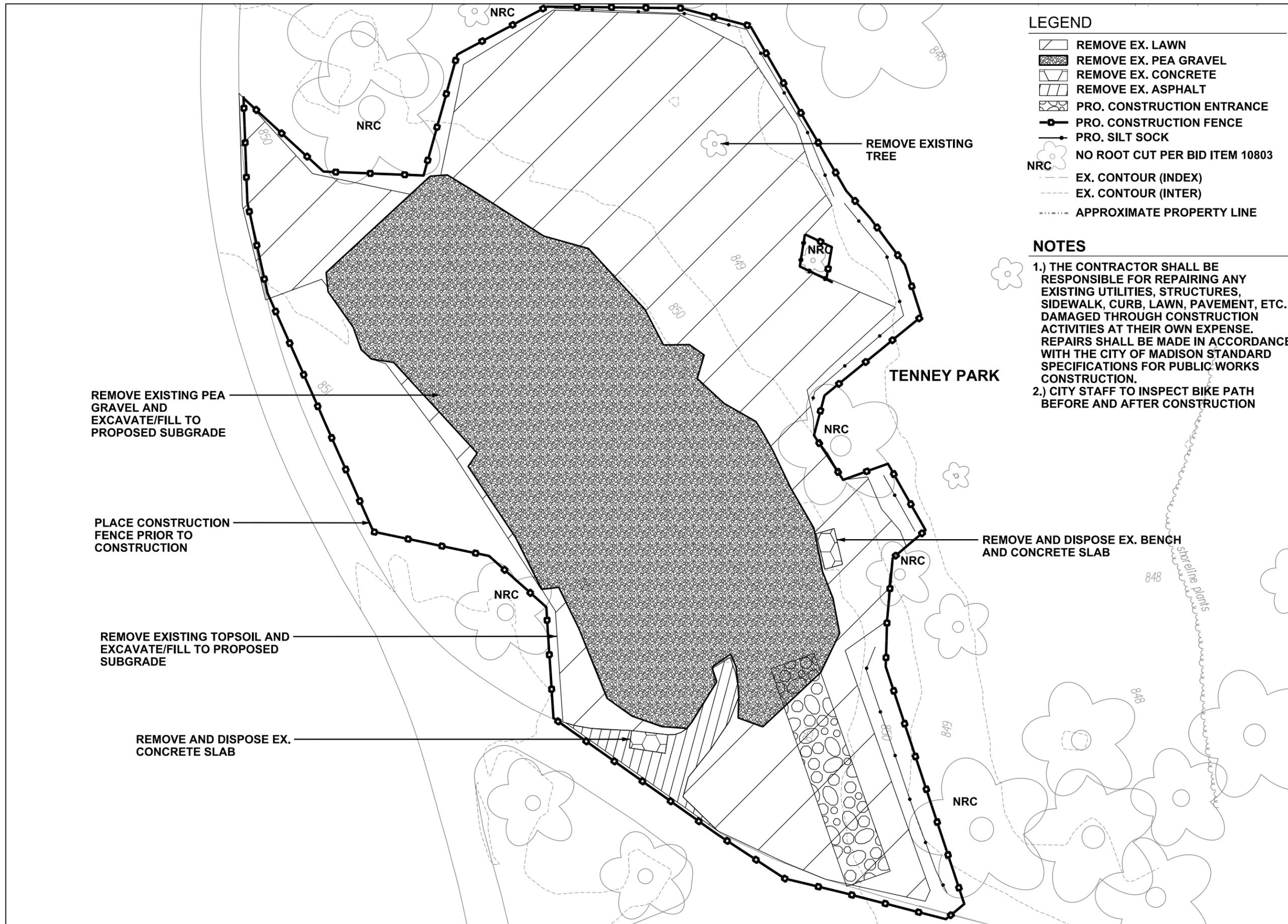
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|--------------------|------------|
| Advertised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

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

SHEET NUMBER:
4.1



LEGEND

- REMOVE EX. LAWN
- REMOVE EX. PEA GRAVEL
- REMOVE EX. CONCRETE
- REMOVE EX. ASPHALT
- PRO. CONSTRUCTION ENTRANCE
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- NO ROOT CUT PER BID ITEM 10803
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER)
- APPROXIMATE PROPERTY LINE

NOTES

- 1.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 2.) CITY STAFF TO INSPECT BIKE PATH BEFORE AND AFTER 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



PROJECT:
2016 PARK
PLAYGROUND
IMPROVEMENTS
 - GROUP 1

TENNEY PARK
 1414 E. JOHNSON ST.
 MADISON, WI 53703

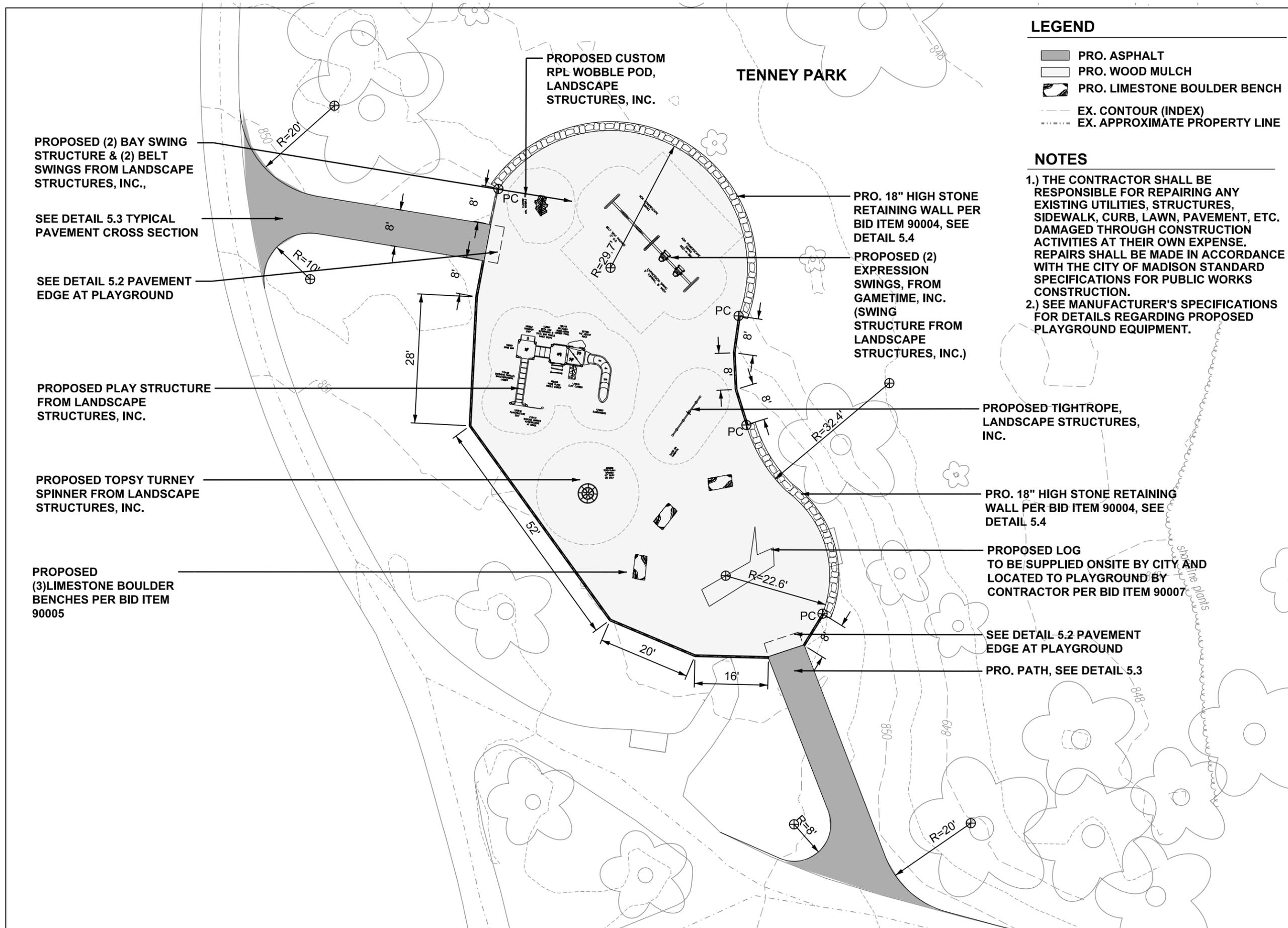
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|-----------------|------------|
| Advised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
**DEMOLITION &
 PROTECTION PLAN**

SHEET NUMBER:
4.2



LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. LIMESTONE BOULDER BENCH
- EX. CONTOUR (INDEX)
- EX. APPROXIMATE PROPERTY LINE

NOTES

- 1.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 2.) SEE MANUFACTURER'S SPECIFICATIONS FOR DETAILS REGARDING PROPOSED PLAYGROUND EQUIPMENT.

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:
2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 3

TENNEY PARK
 1414 E JOHNSON ST
 MADISON, WI 53703

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: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
4.3

| 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 | 937 | 0.50 | 469 | 17.4 | 0% | 17.4 |
| 1.2 | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 937 | varies | 417 | 15.4 | 0% | 15.4 |
| 1.3 | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 937 | 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 | 937 | -0.75 | -703 | -26.0 | 0% | -26.0 |
| 1.5 | Grass to Asphalt | Asphalt Place | Place 3in asphalt (includes ramp into playground) | n/a | n/a | 840 | -0.25 | -210 | -7.8 | 0% | -7.8 |
| 1.6 | Grass to Asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 97 | -0.25 | -24 | -0.9 | 0% | -0.9 |
| 2.1 | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 5316 | 0.50 | 2658.00 | 98.4 | 0% | 98.4 |
| 2.2 | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 5316 | varies | 208.01 | 7.7 | 0% | 7.7 |
| 2.3 | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 5316 | varies | -5402.01 | -200.1 | 0% | -200.1 |
| 2.4 | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 5316 | -0.50 | -2658.00 | -98.4 | 0% | -98.4 |
| 3.1 | Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1632 | 0.50 | 816 | 30.2 | 0% | 30.2 |
| 3.2 | Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1632 | varies | 14 | 0.5 | 0% | 0.5 |
| 3.3 | Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1632 | varies | -1235 | -45.7 | 0% | -45.7 |
| 3.4 | Grass to Play Surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 1632 | -1.00 | -1632 | -60.4 | 0% | -60.4 |
| 4.1 | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 7 | 0.50 | 4 | 0.1 | 0% | 0.1 |
| 4.2 | Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 7 | varies | 0 | 0.0 | 0% | 0.0 |
| 4.3 | Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 7 | varies | -4 | -0.2 | 0% | -0.2 |
| 4.4 | 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 |
| 5.1 | Grass to Wall | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 211 | 0.50 | 105.59 | 3.9 | 0% | 3.9 |
| 5.2 | Grass to Wall | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-36inch | 211 | varies | 28.41 | 1.1 | 0% | 1.1 |
| 5.3 | Grass to Wall | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-36inch | 211 | varies | -126.30 | -4.7 | 0% | -4.7 |
| 5.4 | Grass to Wall | Gravel Place (placeholder) | Place 6" of gravel | n/a | n/a | 211 | -0.50 | -105.59 | -3.9 | 0% | -3.9 |
| 5.5 | Grass to Wall | Wall Place (Placeholder) | Place 2.5feet of wall | n/a | n/a | 211 | -2.50 | -527.97 | -19.6 | 0% | -19.6 |
| 6.1 | Play surface to grass | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 1838 | 1.41 | 2591 | 96.0 | 0% | 96.0 |
| 6.2 | Play surface to grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-6in | 1838 | varies | 0 | 0.0 | 0% | 0.0 |
| 6.3 | Play surface to grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 1838 | varies | -1849 | -68.5 | 0% | -68.5 |
| 6.4 | Play surface to grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 1838 | -0.50 | -919 | -34.0 | 0% | -34.0 |
| 7.1 | Play surface to Asphalt | Topsoil Excavate | Remove 17" play surface | n/a | n/a | 303 | 1.42 | 429 | 15.9 | 0% | 15.9 |
| 7.2 | Play surface to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 303 | varies | 0 | 0.0 | 0% | 0.0 |
| 7.3 | Play surface to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 303 | varies | -191 | 0.0 | 0% | 0.0 |
| 7.4 | Play surface to Asphalt | Gravel Place | Place 9in depth gravel base out to 6in from pavement edge | n/a | n/a | 303 | -0.75 | -227 | -8.4 | 0% | -8.4 |
| 7.5 | Play surface to Asphalt | Asphalt Place | Place 3in asphalt (includes ramp into playground) | n/a | n/a | 270 | -0.25 | -67 | -2.5 | 0% | -2.5 |
| 7.6 | Play surface to Asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 33 | -0.25 | -8 | -0.3 | 0% | -0.3 |
| 8.1 | Play surface to play surface | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 4319 | 1.42 | 6119 | 226.6 | 0% | 226.6 |
| 8.2 | Play surface to play surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 4319 | varies | 0 | 0.0 | 0% | 0.0 |
| 8.3 | Play surface to play surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 4319 | varies | -2320 | -85.9 | 0% | -85.9 |
| 8.4 | Play surface to play surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 4319 | -1.00 | -4319 | -160.0 | 0% | -160.0 |

| | | | | | | | | | | | |
|------|--------------------------|------------------------------|---|-----------|------------|-----|--------|---------|------|----|------|
| 9.1 | Play surface to timbers | Pea Gravel Excavate | Remove 17" play surface | n/a | n/a | 46 | 1.41 | 65 | 2.4 | 0% | 2.4 |
| 9.2 | Play surface to timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 46 | varies | 0 | 0.0 | 0% | 0.0 |
| 9.3 | Play surface to timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 46 | varies | -25 | -0.9 | 0% | -0.9 |
| 9.4 | Play surface to timbers | Timber Place | Place 12inches of timbers | n/a | n/a | 46 | -1.00 | -46 | -1.7 | 0% | -1.7 |
| 10.1 | Play surface to wall | Pea Gravel Excavate | Remove 17" of play surface | n/a | n/a | 43 | 1.42 | 61.06 | 2.3 | 0% | 2.3 |
| 10.2 | Play surface to wall | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17inch | Pro-36inch | 43 | varies | 0.00 | 0.0 | 0% | 0.0 |
| 10.3 | Play surface to wall | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17inch | Pro-36inch | 43 | varies | -8.53 | -0.3 | 0% | -0.3 |
| 10.4 | Play surface to wall | Gravel Place (placeholder) | Place 6" of gravel | n/a | n/a | 43 | -0.50 | -21.50 | -0.8 | 0% | -0.8 |
| 10.5 | Play surface to wall | Wall Place (Placeholder) | Place 2.5feet of wall | n/a | n/a | 43 | -2.50 | -107.50 | -4.0 | 0% | -4.0 |
| 11.1 | Concrete to wall | Concrete and gravel excavate | Remove 7" of concrete and gravel | n/a | n/a | 16 | 0.58 | 8.99 | 0.3 | 0% | 0.3 |
| 11.2 | Concrete to wall | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-7in | Pro-36inch | 16 | varies | 15.16 | 0.6 | 0% | 0.6 |
| 11.3 | Concrete to wall | Subsoil Place | Fill subsoil to proposed subgrade | Ex-7in | Pro-36inch | 16 | varies | 0.00 | 0.0 | 0% | 0.0 |
| 11.4 | Concrete to wall | Gravel Place (placeholder) | Place 6" of gravel | n/a | n/a | 16 | -0.50 | -7.75 | -0.3 | 0% | -0.3 |
| 11.5 | Concrete to wall | Wall Place (Placeholder) | Place 2.5feet of wall | n/a | n/a | 16 | -2.50 | -38.77 | -1.4 | 0% | -1.4 |
| 12.1 | Concrete to play surface | Concrete and gravel excavate | Remove 7" of concrete and gravel | n/a | n/a | 9 | 0.58 | 5 | 0.2 | 0% | 0.2 |
| 12.2 | Concrete to play surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-7inch | Pro-12in | 9 | varies | 0 | 0.0 | 0% | 0.0 |
| 12.3 | Concrete to play surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-7inch | Pro-12in | 9 | varies | -2 | -0.1 | 0% | -0.1 |
| 12.4 | Concrete to play surface | Play Surface Place | Place 12in of play surface | n/a | n/a | 9 | -1.00 | -9 | -0.3 | 0% | -0.3 |
| 13.1 | Concrete to grass | Concrete and gravel excavate | Remove 7" of concrete and gravel | n/a | n/a | 38 | 0.58 | 22 | 0.8 | 0% | 0.8 |
| 13.2 | Concrete to grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-7inch | Pro-12in | 38 | varies | 0 | 0.0 | 0% | 0.0 |
| 13.3 | Concrete to grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-7inch | Pro-12in | 38 | varies | -10 | -0.4 | 0% | -0.4 |
| 13.4 | Concrete to grass | Topsoil Place | Place 12in of play surface | n/a | n/a | 38 | -0.50 | -19 | -0.7 | 0% | -0.7 |
| 14.1 | Asphalt to grass | Asphalt Excavate | Remove 1' asphalt and gravel | n/a | n/a | 325 | 1.00 | 325 | 12.0 | 0% | 12.0 |
| 14.2 | Asphalt to grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-12in | Pro-6in | 325 | varies | 0 | 0.0 | 0% | 0.0 |
| 14.3 | Asphalt to grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 325 | varies | -191 | -7.1 | 0% | -7.1 |
| 14.4 | Asphalt to grass | Topsoil Place | Place topsoil | n/a | n/a | 325 | -0.50 | -162 | -6.0 | 0% | -6.0 |
| 15.1 | 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 |
| 15.2 | 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 |
| 15.3 | 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 |
| 15.4 | 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 |

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:

**2017 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 3**

**TENNEY PARK
1414 E. JOHNSON ST.
MADISON, WI 53703**

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: SCL 04-28-2017

PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
**DESIGN
COMPUTATIONS**

SHEET NUMBER:
4.5

Tenney Park Island Playground

City of Madison Public Works Contract

Date Revised: 4/17/2017

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 Factored (Uncompacted) Volume (cu yd) |
|---|--|
| Asphalt Place | -10.3 |
| Border Timbers Place (placeholder volume) | -0.3 |
| Play Surface Place | -221.2 |
| Subsoil Excavate | 25.7 |
| Subsoil Place | -413.8 |
| Topsoil Excavate | 150.1 |
| Topsoil Place | -140.4 |
| Gravel Place | -34.4 |
| (blank) | |
| Pea Gravel Excavate | 343.2 |
| Timber Place | -1.7 |
| Wall Place (Placeholder) | -25.0 |
| Concrete and gravel excavate | 1.3 |
| Asphalt Excavate | 12.0 |
| Gravel Place (placeholder) | -5.0 |
| Grand Total | -319.7 |

| Reorganized into bid table items | | | |
|---|----------|-------|---|
| Bid Item | Quantity | Units | Relation to Table Above |
| 20101 Excavation Cut | 189 | CY | = Subsoil Excavate + Topsoil Excavate + Asphalt Excavate + Concrete and Gravel Excavate |
| 20103 Excavation Cut - Pea Gravel | 343 | CY | = Pea Gravel Excavate |
| 20201 Fill | 388 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 841 | SY | = (Topsoil Place)/-.167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 | 69 | tons | = (Gravel Place) * -2 ton/cubic yard |
| 40201 3" Depth HMA Pavement Type E-0.3 | 22.2 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| 90003 Playground Surfacing - Wood Mulch | 243 | CY | = Play Surface Place * -1.10 |

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*2017 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 3*

*TENNEY PARK
1414 E. JOHNSON ST.
MADISON, WI 53703*

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ITEM DATE
Advised by: SCL 04-28-2017

PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
*DESIGN
COMPUTATIONS*

SHEET NUMBER:

4.6

PROJECT:
**2017 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 3**

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| ITEM | DATE |
|-----------------|------------|
| Advised by: SCL | 04-28-2017 |
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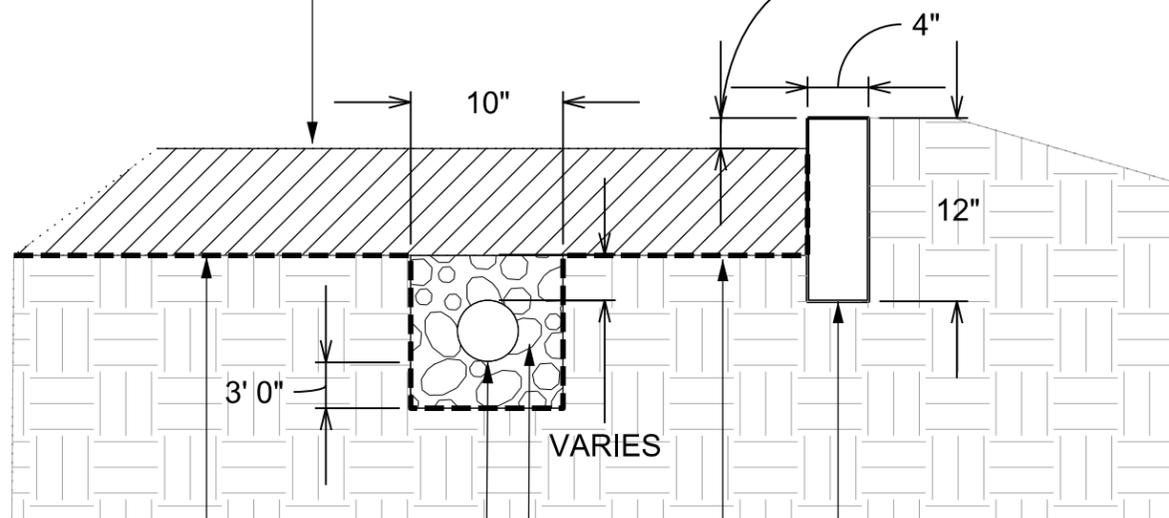
PUBLIC WORKS PROJECT #:
7929

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

SHEET NUMBER:
5.1

PLAYGROUND SURFACING

2" LIP BETWEEN PLAYGROUND BORDER TIMBERS
 AND FINAL PLAYGROUND SURFACING GRADE



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

4 INCH PERFORATED PVC UNDERDRAIN WITH 'SOCK'
 PITCHED MINIMUM OF 0.5% SLOPE

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

PLAYGROUND SUBGRADE
 - MIN. 12" FROM FROM PLAYGROUND SURFACE
 FINISHED GRADE FOR WOOD MULCH

PROPOSED PLAYGROUND BORDER
 TIMBERS PER MANUFACTURER'S
 INSTALLATION SPECIFICATIONS

PROJECT:
**2017 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 3**

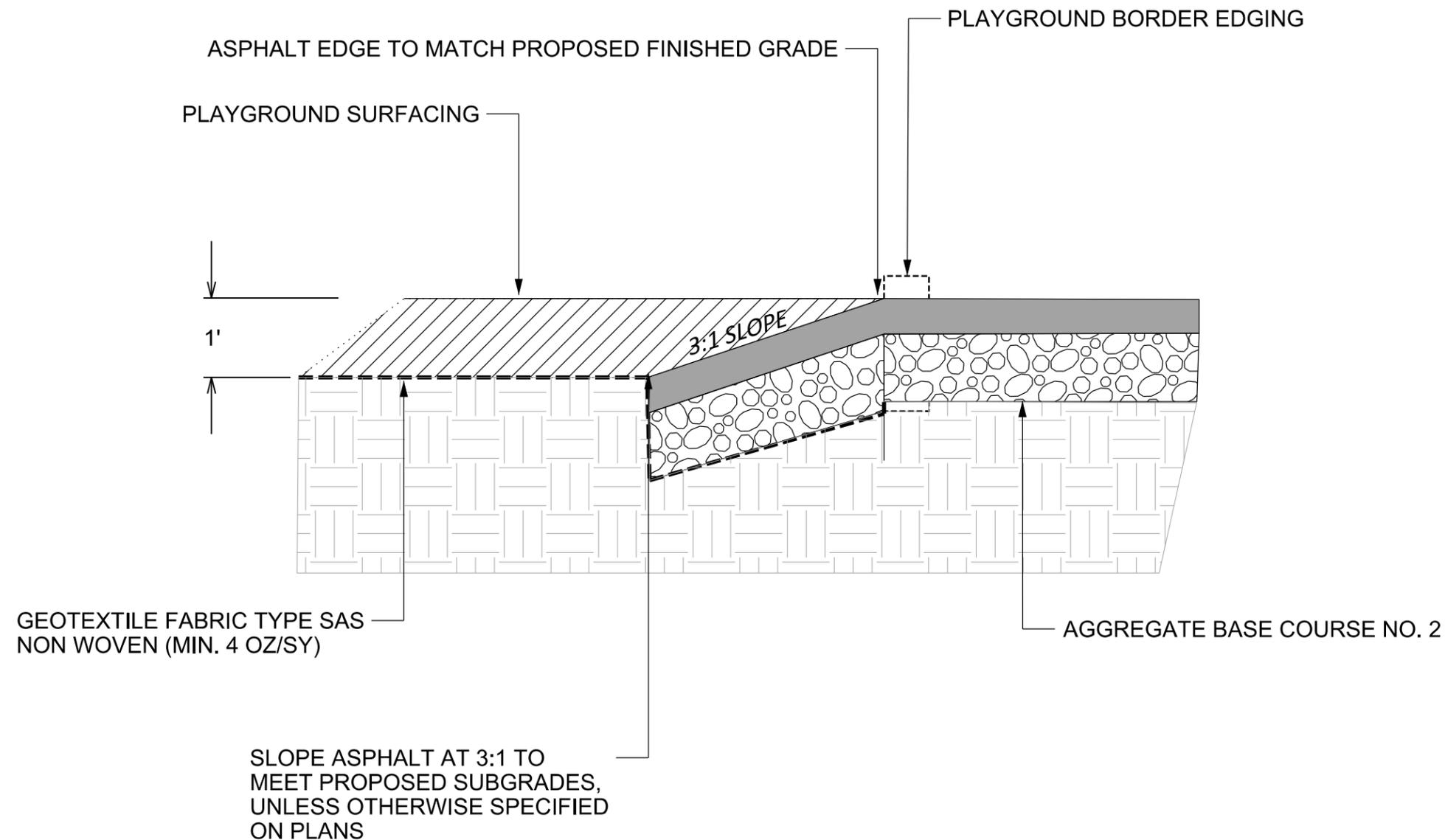
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|-----------------|------------|
| Advised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
**PAVEMENT EDGE
 AT PLAYGROUND**

SHEET NUMBER:
5.2



PROJECT:
*2017 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 3*

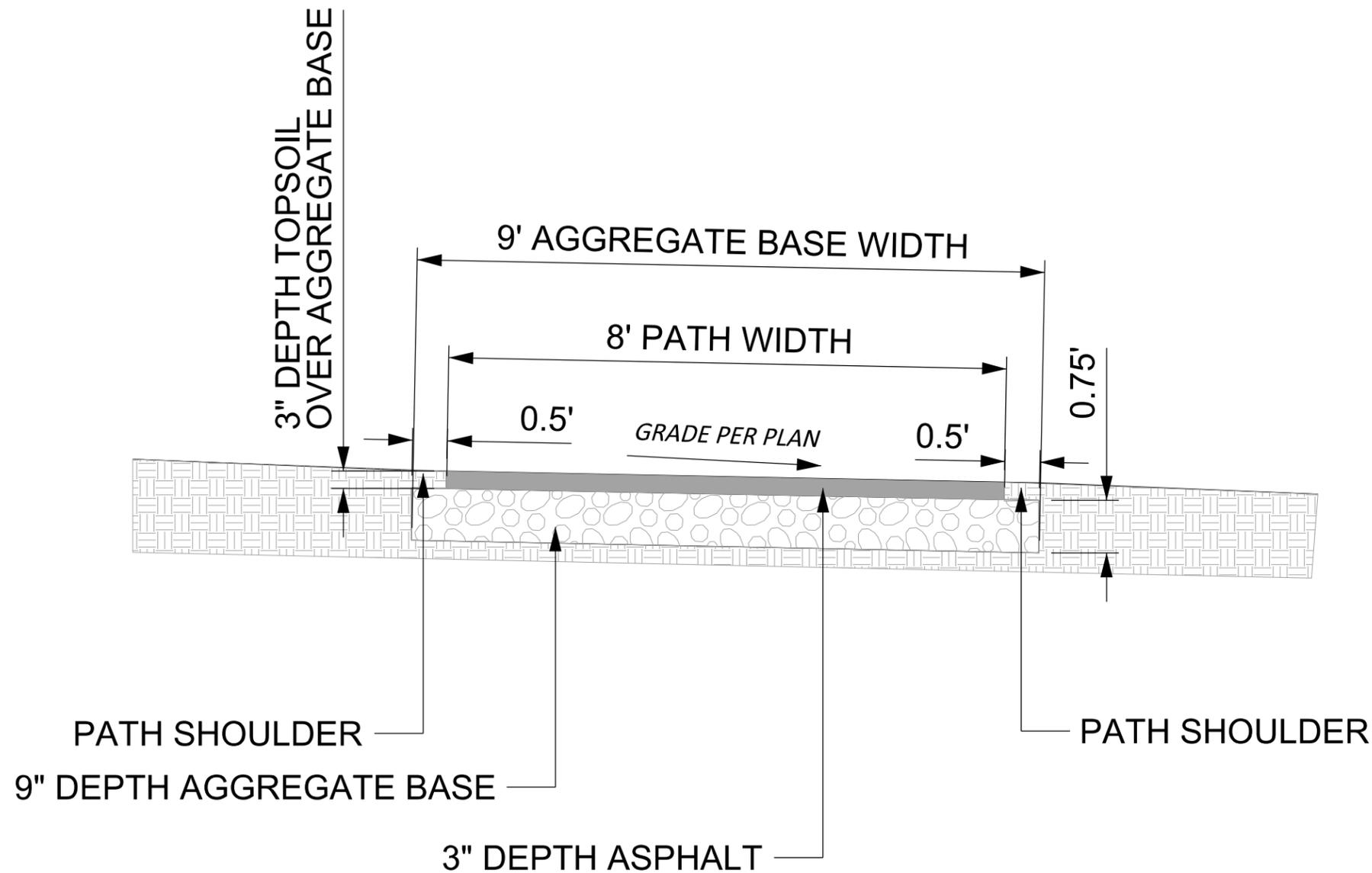
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| ITEM | DATE |
|--------------------|------------|
| Advertised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
*TYPICAL PATH
 CROSS SECTION*

SHEET NUMBER:
5.3



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| ITEM | DATE |
|-----------------|------------|
| Advised by: SCL | 04-28-2017 |
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PUBLIC WORKS PROJECT #:
7929

SHEET TITLE:
**LIMESTONE
 OUTCROPPING STONE
 RETAINING WALL**

SHEET NUMBER:
5.4

