

Project Location	Plum Grove Reservoir	10/26/2020
	by Jim Holder in Member District ADA Project Request	id. 18015668
	ADAProjects@palatineparks.org	

Original submission 10/26/2020

Name	Jim Holder
Job Title	Superintendent of parks & Planning
E-mail Address	jholder@palatineparks.org
Phone Number	847-705-5131
Park District	Palatine
Project Status	Alteration
Project Type	Recreation Facilities and Amenities Routes and Surfaces
Recreation Facilities and Amenities- select a Project Category below:	Playgrounds- Play Components
Routes and Surfaces- select a Project Category below:	Accessible Routes- Means of Egress Play Surfaces Walking Surfaces
Benefits of the Project	Add accessible swing, transfer stations, sloped entry, concrete and play features to allow disabled individuals to use the playground.
Items that will become ADA Compliant	Swing, transfer stations, play features and an entry path.
The project is designed or constructed, or applies human resources, to comply with:	The 2010 Standards for Accessible Design The Illinois Accessibility Code ASTM F 1951 Standard for Accessible Playground Surfaces Agency's ADA Transition Plan

Upload Project Related Files, Photos, Videos or Audio

[ADA_Cost_doc_Plum_Grove.pdf](#)

[ADA-_Plum_Grove_Equipment.pdf](#)
[2020_02_20_Plum_Grove_Reservoir_Bid_Plans_R1.pdf](#)
[Final_Payout.pdf](#)
[2020_2_27_802_Plum_Grove_CD-Grading.pdf](#)
[Icon_Invoice_6527.pdf](#)
[Jasco_Shelter_electric.pdf](#)
[LSI_Invoice.pdf](#)
[Upland_Invoice_01.pdf](#)
[IMG_20201026_112720753.jpg](#)
[IMG_20201026_112845275_HDR.jpg](#)
[IMG_20201026_112910827_HDR.jpg](#)
[IMG_20201026_112920908_HDR.jpg](#)
[IMG_20201026_112941090_HDR.jpg](#)
[IMG_20201026_112951924_HDR.jpg](#)
[IMG_20201026_113001523_HDR.jpg](#)
[IMG_20201026_113032890.jpg](#)
[IMG_20201026_113054447.jpg](#)
[IMG_20201026_113211637.jpg](#)
[IMG_20201026_113301834.jpg](#)

Budget Table for ADA Related Expenses

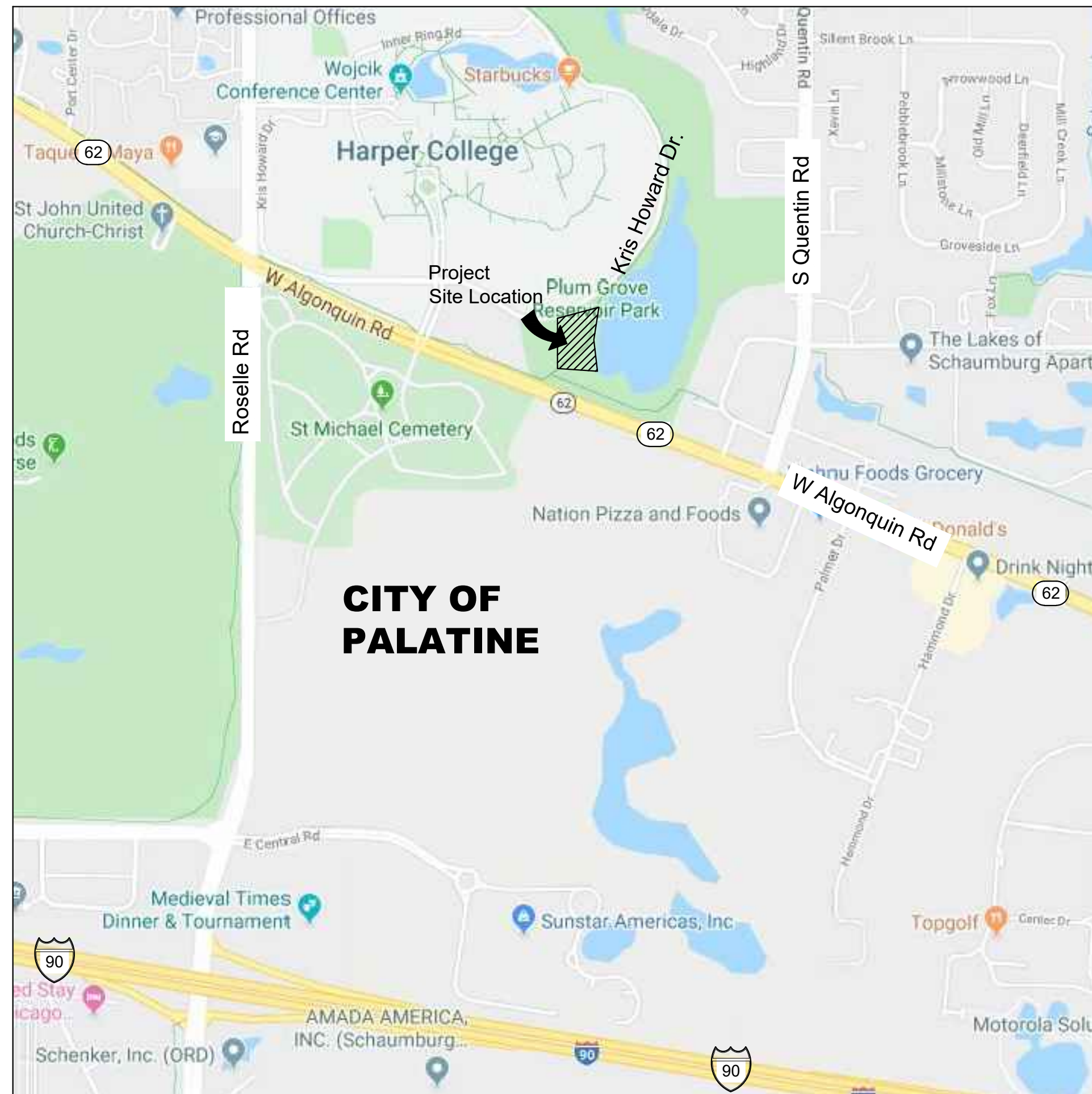
[87208b33-ed5b-40ef-92ec-6002787e8e9b.xlsx](#)

ADA Dollars Requested	58738
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Notes related to requested amount	The total cost for the project: Playground & Shelter purchase, LA fees, installation, and all concrete work was \$223,954.58.
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Plum Grove Reservoir Park Playground Renovation

Algonquin Road, South End of Harper College,
Palatine, IL 60067



LOCATION MAP

SCALE: not to scale



LANDSCAPE ARCHITECT:



Landscape Architecture & Park Planning
1250 W. 18th St, Chicago, Illinois 60608
24042 Lockport St, Plainfield, Illinois 60544
815-254-0091 www.uplandDesign.com

IL License 060-007797



Palatine Park District
250 E. Wood Street,
Palatine, IL 60067

SHEET INDEX

- 1.0 Title Sheet
- 2.0 Existing Conditions & Removals Plan
- 3.0 Layout & Dimension Plan- Concrete
- 3.1 Layout & Dimension Plan- Playground
- 4.0 Grading & Restoration Plan
- 5.0 Construction Details
- 5.1 Shelter Details

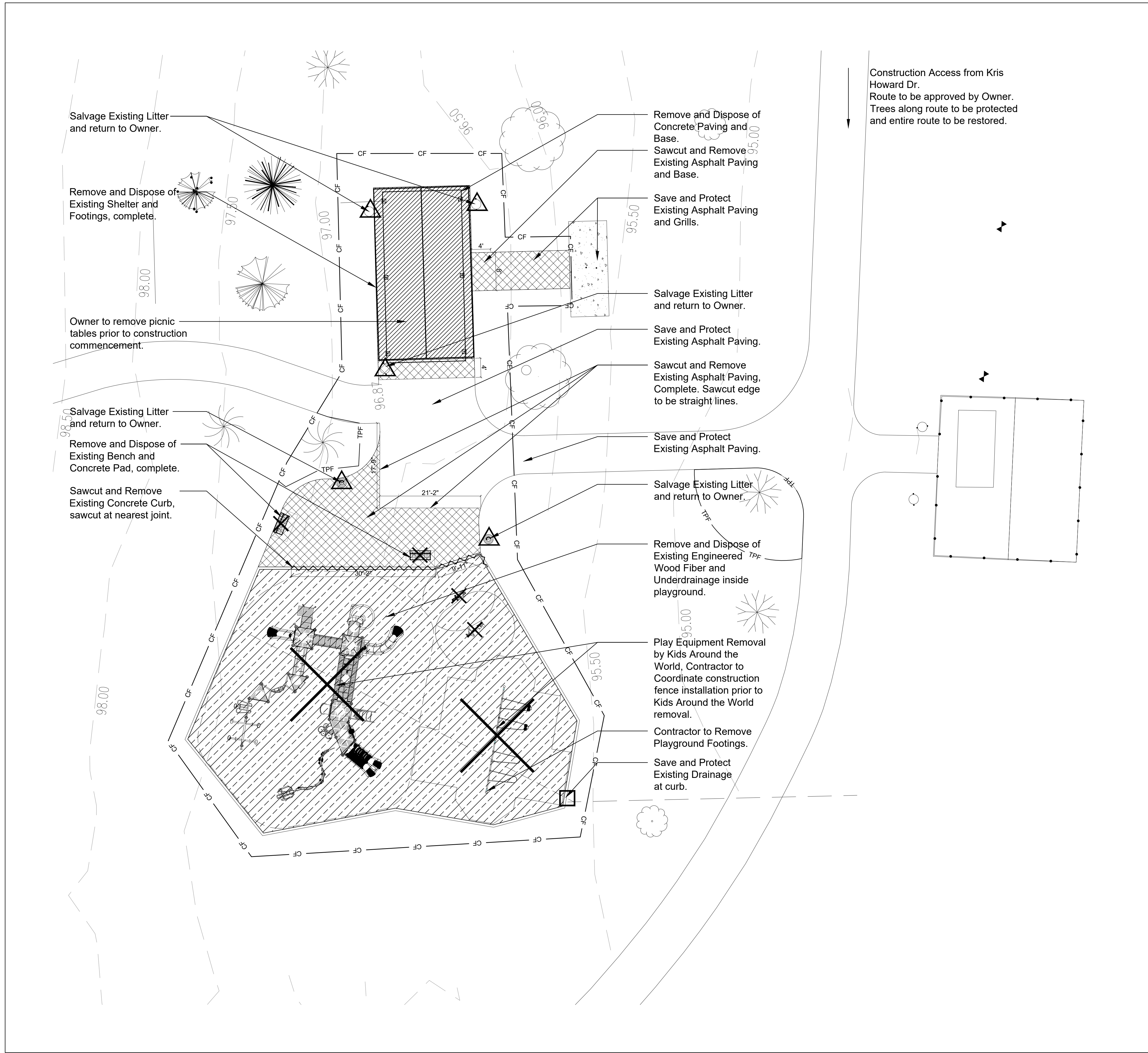


800.892.0123

This project has been prepared by and reviewed by Licensed Landscape Architects.
Michelle A. Kelly # 157.001002
Heath A. Wright # 157.000994
Elizabeth A. Dafoe # 157.001572

SHEET NUMBER **1.0**

Plum Grove Reservoir Park Playground Renovation
Project Number 802
February 20, 2020
Issue For Bid
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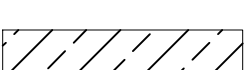
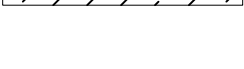


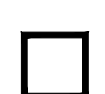
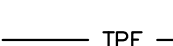



Construction Access from Kris Howard Dr.
Route to be approved by Owner.
Trees along route to be protected and entire route to be restored.

GENERAL NOTES: EXISTING CONDITIONS & REMOVALS

- The Contractor is to locate all utilities, public and private, prior to beginning construction. Contractor will be responsible for any damages to utilities caused by their work. Contact J.U.L.I.E. 72 hours prior to construction at 1-800-982-0123 or (811) for location of utilities and contractor shall be responsible for protection of the same.
- Site conditions are shown based upon available information, contractor to verify all existing conditions prior to bidding.
- The contractor shall be responsible for the protection of all private utilities even though they may not be shown on the plans. Any utility damaged during the construction shall be repaired or replaced to the satisfaction of the Owner at the contractor's expense. No tree shall be planted within 10 lateral feet of any underground waterline, sewer line, transmission line or other utility.
- Survey is based on as built information. The contractor is responsible for verifying all grades and slopes before installation. Any discrepancies shall be brought to the attention of the Owner and the Owner's Representative immediately.
- The Contractor shall walk the site prior to submitting a bid to be fully familiar with site conditions.
- The Contractor shall protect and preserve all section, property or survey reference markers.
- Tree Protection Fence to be installed as shown on plans and details prior to beginning construction. (incidental to cost). Do not drive, store equipment or materials within dripline of existing trees that are to be saved. Hold necessary disturbance to a minimum.
- Contractor will be held responsible for damage to items not scheduled for removal.
- Contractor shall repair or replace all damaged sidewalks, curbs or paving to remain in place that were damaged as a result of work stated in contract documents.
- No excavations are to be left open to foul weather, rain, snow, etc. which would necessitate further excavation and additional sub grade materials.
- Work site safety is the responsibility of the Contractor.
- Vehicular Construction access shall be at one location to minimize damage. Construction access shall be approved by the Owner's representative.
- Construction Limits:** Construction Limits are as shown on plans. Do not store equipment or stockpile materials outside of construction limits. Any areas disturbed as a result of construction shall be restored to lawn or other surface by contractor to match pre-construction condition.
- Topsail may be stockpiled for redistribution as needed. Excess topsail, debris and plant material to be removed off site and disposed of legally.
- Construction fence shall be installed prior to beginning construction. Construction fence to be 6' free standing chainlink. (incidental to contract).
- Place erosion control measures as required to eliminate sedimentation into non-construction areas and as shown on plans and details prior to beginning construction.
- Before beginning work at the site and throughout the course of the work contractor to inspect and verify the location and condition of every item affected by the work under this contract and report discrepancies to the Owner's Representative before beginning work.
- Should discrepancies appear among the contract documents or between the contract documents and existing conditions, the contractor shall request an interpretation from the Owner's Representative before bidding. If the contractor fails to make such requests, it is presumed that both provisions were included in the bid, and the Owner's Representative shall determine which of the conflicting requirements shall govern. The contractor shall perform the work at no additional cost to the Owner in accordance with the Owner's Representative determination. Where conflicts exist between or within the contract documents between and applicable standards, codes, ordinances or manufacturers recommendations, and clarification has not been requested from the Owner's Representative prior to bidding as provided for above, the more stringent or higher quality standard shall prevail. Large scale drawings shall take precedence over small scale drawings, figured dimensions on the drawings over scaled dimensions and noted material over graphic representations.
- The contractor shall provide all work and materials which any section or part of the drawings, specifications or conditions require them to provide, regardless of whether such requirement is or is not faithfully repeated in other parts of the documents thereof to which the provisions might be appropriate.
- All necessary site work permits will be obtained by Owner. Contractor is responsible for following permit requirements including coordination of inspections and/or reinspections and associated fees.
- Contractor shall perform all construction layout for the project. Contractor will be provided with an electronic file in AutoCAD format to assist with layout. Neither the Owner nor their representative shall be responsible for setting additional layout points.

REMOVALS LEGEND

-  Remove and Dispose of Existing Asphalt Paving
-  Remove and Dispose of Existing Concrete Paving
-  Remove and Dispose of Existing Engineered Wood Fiber
-  Remove and Dispose of Existing Concrete Curb
-  Remove and Dispose of Item as Marked
-  Salvage and Relocate Item as Marked
-  Save and Protect Item During Construction
-  TPF Tree Protection Fence
-  CF Construction Fence / Construction Limits



250 E. Wood Street,
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Phone: 847-991-0333

PROJECT
Plum Grove Reservoir Park Playground Renovation
Algonquin Road, South End of Harper College,
Palatine, IL 60067

PROJECT TEAM



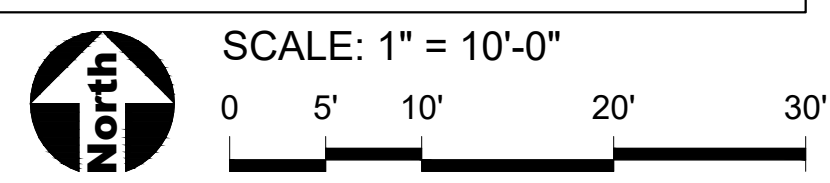
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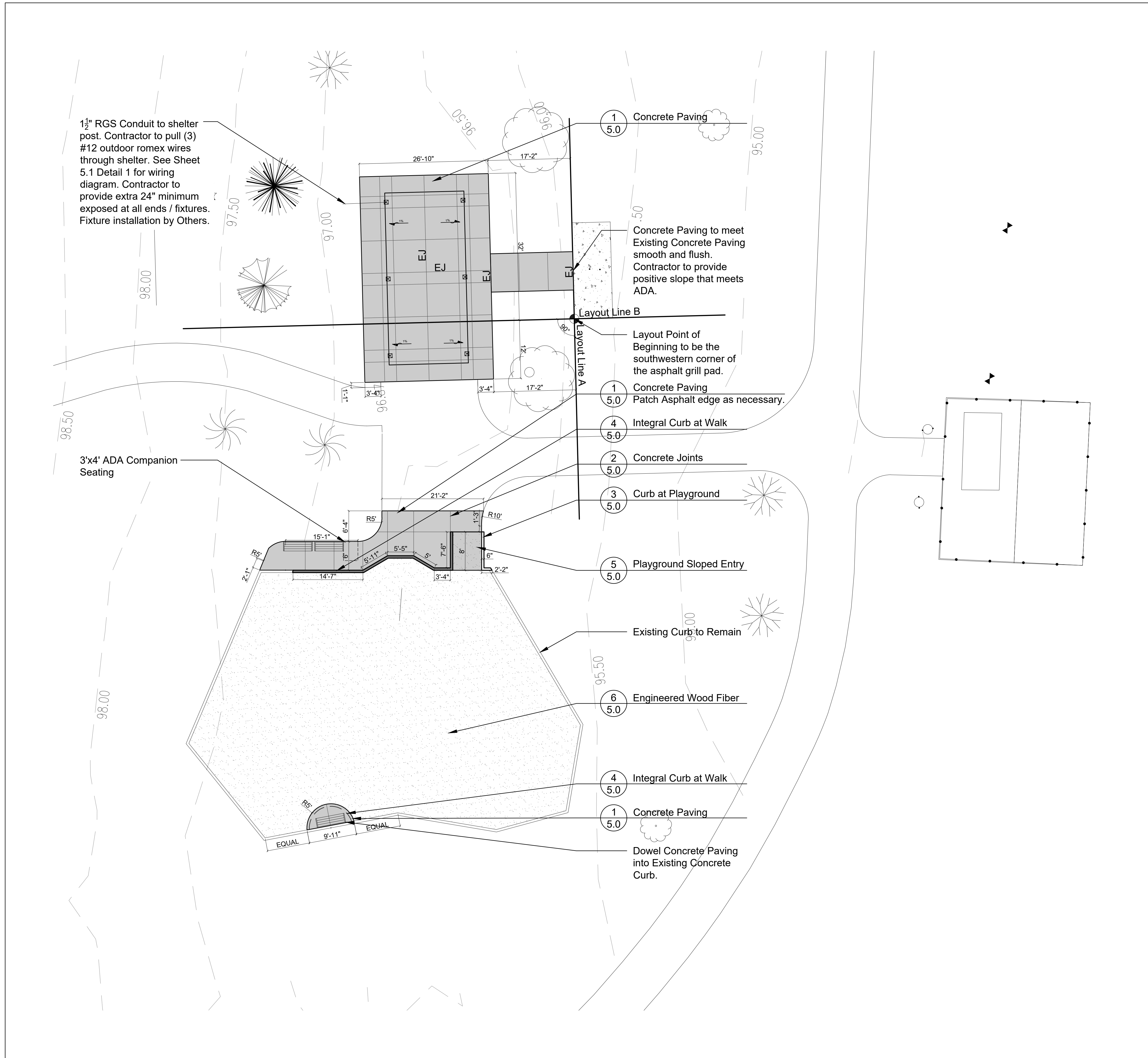
SHEET TITLE
Existing Conditions & Removals Plan

SHEET NUMBER 2.0

DRAW / REVISION

LD/IR	Issue for Bid	20FEB2020





GENERAL NOTES: LAYOUT

1. It is the responsibility of the Contractor to perform layout of all project elements and points for review by Owner prior to construction. (This work is considered incidental to the project and not paid as a separate bid item).
2. Paving radii shall be formed completely and shall smoothly transition into tangents and adjoining lines. Dimensions are to face of curb and edge of pavement unless otherwise specified.
3. Dimensions are in feet or degrees. Dimensions are perpendicular & parallel unless otherwise noted.
4. All built elements inclusive of walks, drives, rails and paved areas are to follow ADA per incorporated specifications. Any deviation shall be removed and reinstalled to follow this law.
5. Transitions between paving types (i.e. concrete to asphalt) shall be smooth. Transitions not to exceed 1/8" vertical or horizontal difference.
6. All footings shall be a minimum of 42" deep below finished grade. Where the construction documents or manufacturer specifies deeper footings, those dimensions supercede this note.
7. Finished surfaces to be smooth and even with no abrupt or awkward changes in grade. Paving to meet adjacent grades flush and smooth.
8. No excavations are to be left open to foul weather, rain, snow, etc. which would necessitate further excavation and additional sub grade materials.
9. The contractor shall be responsible for all materials and quantities as required to complete the work in accordance with the plans and specifications. The contractor will notify the Owner's Representative in writing of any discrepancies or changes required to complete the work before any action may be taken. All changes or change orders must be approved by the Owner's Representative and Owner before any changes are executed.

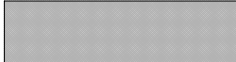

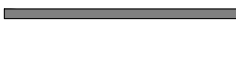
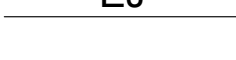
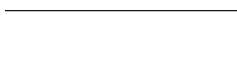
REFERENCED SPECIFICATIONS AND CODES

1. The Standard Specifications for Road and Bridge Construction (SSRBC), most recent edition adopted by the Illinois Department of Transportation, and all amendments thereto the design manual, highway standards, and the culvert manual, also prepared by the Illinois Department of Transportation.
2. The Americans with Disabilities Act and the Illinois Accessibility Code.
3. The Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control, and IEPA Standards and Specifications for Soil Erosion and Sedimentation Control.
4. U.S. Soil Conservation Service Field Engineering Handbook
5. All codes and ordinances of the City of Palatine and State of Illinois, and all agencies having jurisdiction.
6. All requirements of the Occupational Safety and Health Administration.
7. The cited standard specifications, codes and permits, with these construction plans and details, are all to be considered part of the work, incidental items or accessories necessary to complete this work may not be specifically noted but are considered a part of these improvements.
8. In case of conflict, the more restrictive provision shall apply.

GENERAL NOTES: DIMENSION

1. Paving radii shall be formed completely and shall smoothly transition into tangents and adjoining lines. Dimensions are to face of curb and edge of pavement unless otherwise specified.

LEGEND

-  Concrete Paving
-  Engineered Wood Fiber
-  Integral Curb at Walk
-  Concrete Joints
-  Expansion Joints



250 E. Wood Street,
Palatine, Illinois 60067
Phone: 847-991-0333

PROJECT
Plum Grove Reservoir Park Playground Renovation

Algonquin Road, South End of Harper College,
Palatine, IL 60067

PROJECT TEAM



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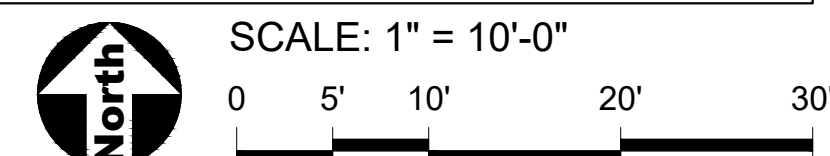
SHEET TITLE

Layout & Dimension Plan- Concrete

SHEET NUMBER 3.0

DRAW / REVISION

LD/IR	Issue for Bid	20FEB2020





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Algonquin Road, South End of
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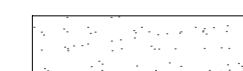





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GENERAL NOTES: DIMENSION

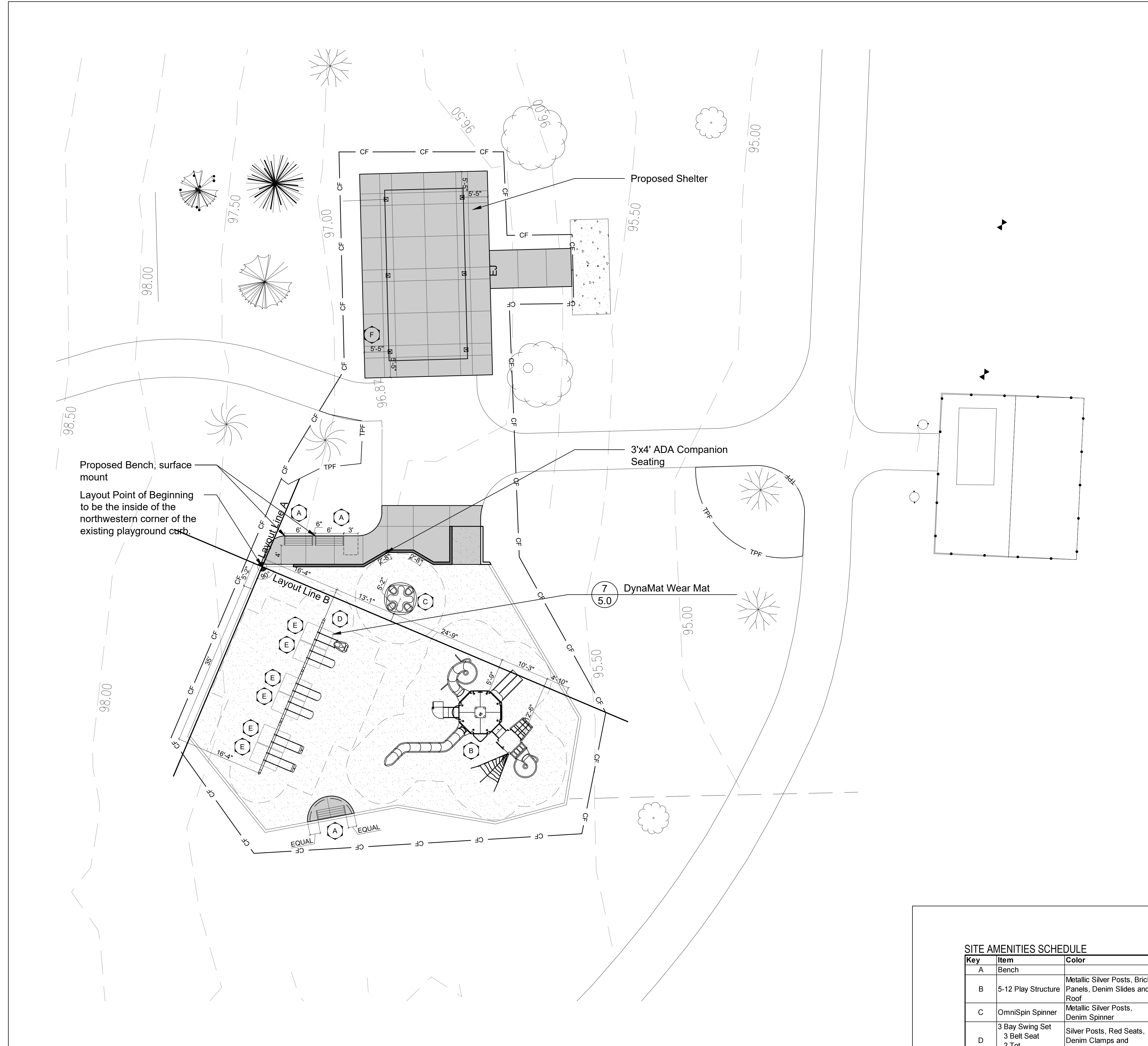
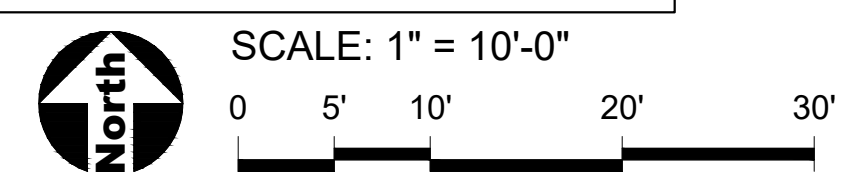
1. Layout of equipment is to center of post.
2. Layout play equipment with safety zones to be staked by the Contractor for review by Owner's Representative prior to play equipment installation.

LEGEND

-  Concrete Paving
-  Engineered Wood Fiber
-  Concrete Joints
-  Expansion Joints
-  Construction Fence
-  Tree Protection Fence

SITE AMENITIES SCHEDULE

Key	Item	Color	Quantity	Model	Manufacturer	Supplier
A	Bench		3	By Owner	By Owner	
B	5-12 Play Structure	Metallic Silver Posts, Brick Panels, Denim Slides and Roof	1	Custom	Landscape Structures	NuToys 708-579-9055
C	OmniSpin Spinner	Metallic Silver Posts, Denim Spinner	1	173591A	Landscape Structures	NuToys 708-579-9055
D	3 Bay Swing Set 3 Belt Seat 2 Tot 1 ADA	Silver Posts, Red Seats, Denim Clamps and Beams	1	177332 174018 176038 177351	Landscape Structures	NuToys 708-579-9055
E	DynaMat	Black	6	R75F4872	Piercelton Rubber Products	NuToys 708-579-9055
F	Shelter	Ash Gray Posts, Regal Blue Roof	1	20'x36' 4 GFI, Tongue and Groove and Shingles, Lighting Kit	ICON Shelters	Parkreation 847-419-7744



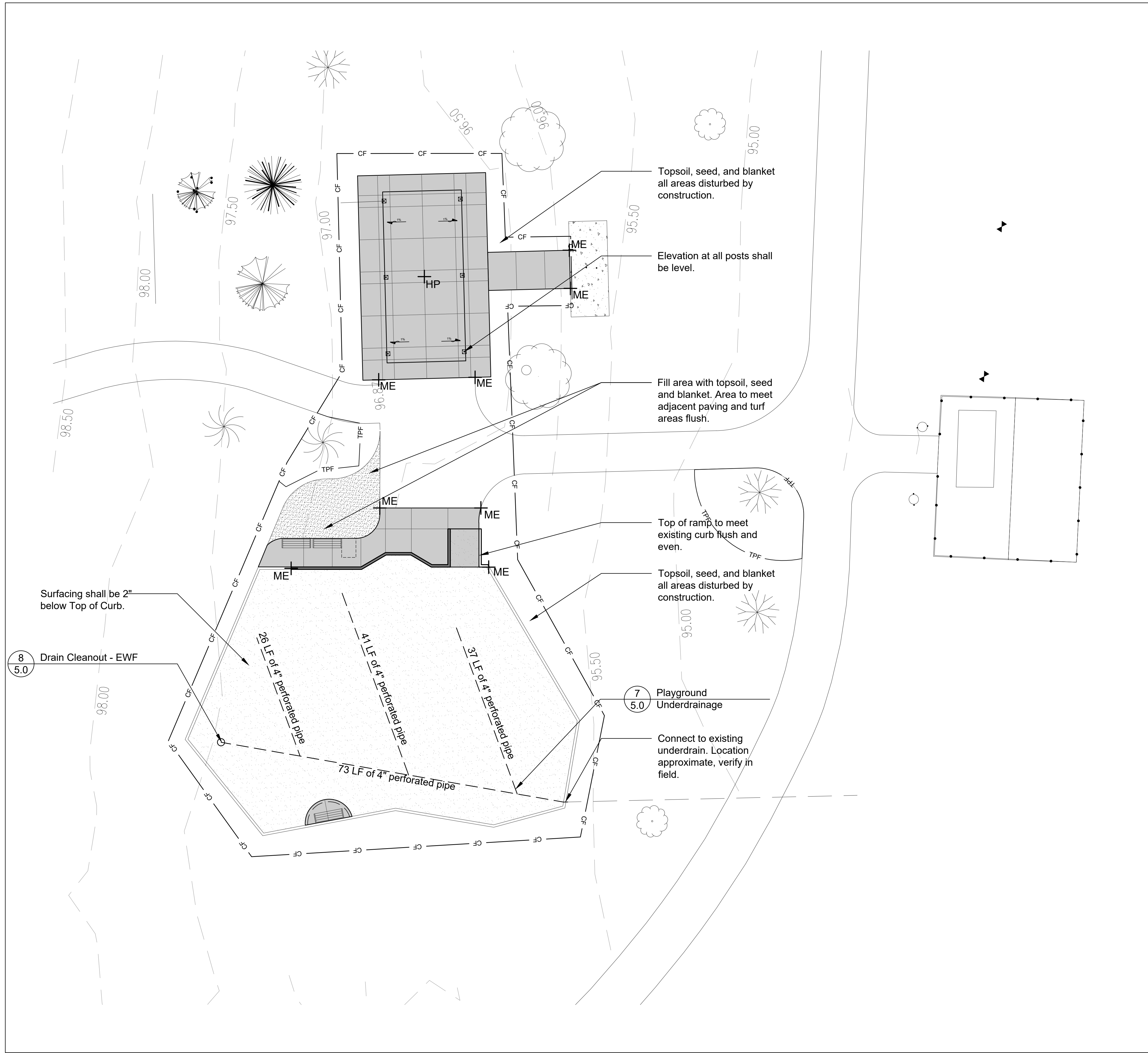
SHEET TITLE

Layout & Dimension Plan- Playground

SHEET NUMBER **3.1**

DRAW / REVISION

LD/IMR	Issue for Bid	20FEB2020



GENERAL NOTES: GRADING

1. Finished surfaces to be smooth and even with no abrupt or awkward changes in grade. Paving to meet adjacent grades flush and smooth.
2. Contractor shall restore all areas disturbed as a result of construction.
3. All walks, drives and paved areas are to follow ADA per incorporated specifications. Any deviation shall be removed and reinstalled to follow this law.
4. All Accessible Route paving shall not exceed 4.5% in any direction. Cross slopes shall be less than 2%. Contractor shall slope all walks and slabs to eliminate ponding. ADA Turning Radius paving shall be less than 2% in all directions.
5. This work shall include the excavation, stockpile, and placement of topsoil and suitable excavated material along with removal of all excess topsoil and debris off site and dispose of legally.
6. Follow the Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control, IEPA Standards and Specifications for Soil Erosion and Sedimentation Control, and U.S. Soil Conservation Service Field Engineering Handbook.
7. Dimensions are in feet or degrees. Dimensions are perpendicular & parallel unless otherwise noted.
8. Transitions between paving types (i.e. concrete to asphalt) shall be smooth. Transitions not to exceed 1/8" vertical or horizontal difference.
9. Finished surfaces to be smooth and even with no abrupt or awkward changes in grade. Paving to meet adjacent grades flush and smooth.
10. All play equipment footings shall meet manufacturers recommendations for footing depth and width.



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Algonquin Road, South End of Harper College,
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LEGEND

- 681 --- Existing Contour Line
- 681 — Proposed Contour Line
- + 685.35 Existing Spot Elevation
- + 689.66 Proposed Spot Elevation
- 2% Drainage Flow Direction
- CL — Construction Limits

INDEX OF ACRONYMS AND ABBREVIATIONS

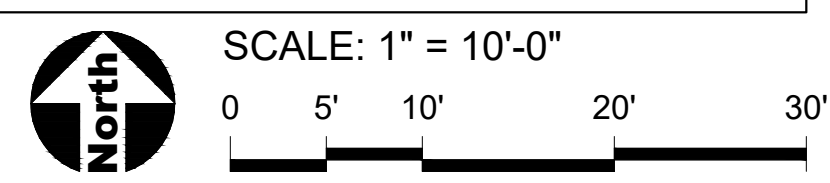
- High Point (HP)
- Low Point (LP)
- Top of Curb (TC)
- Top of Pavement (TP)
- Top of Wall (TW)
- Match Existing Elevation (ME)
- Pipe Invert Elevation (INV)
- Top of Rim Elevation (RIM)

SHEET TITLE
Grading Plan

SHEET NUMBER 4.0

DRAW / REVISION

LD/IR	Issue for Bid	20FEB2020

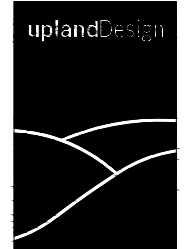


Project Number 802
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PLOT: UPLAN0 2020

PROJECT
Plum Grove Reservoir Park Playground Renovation

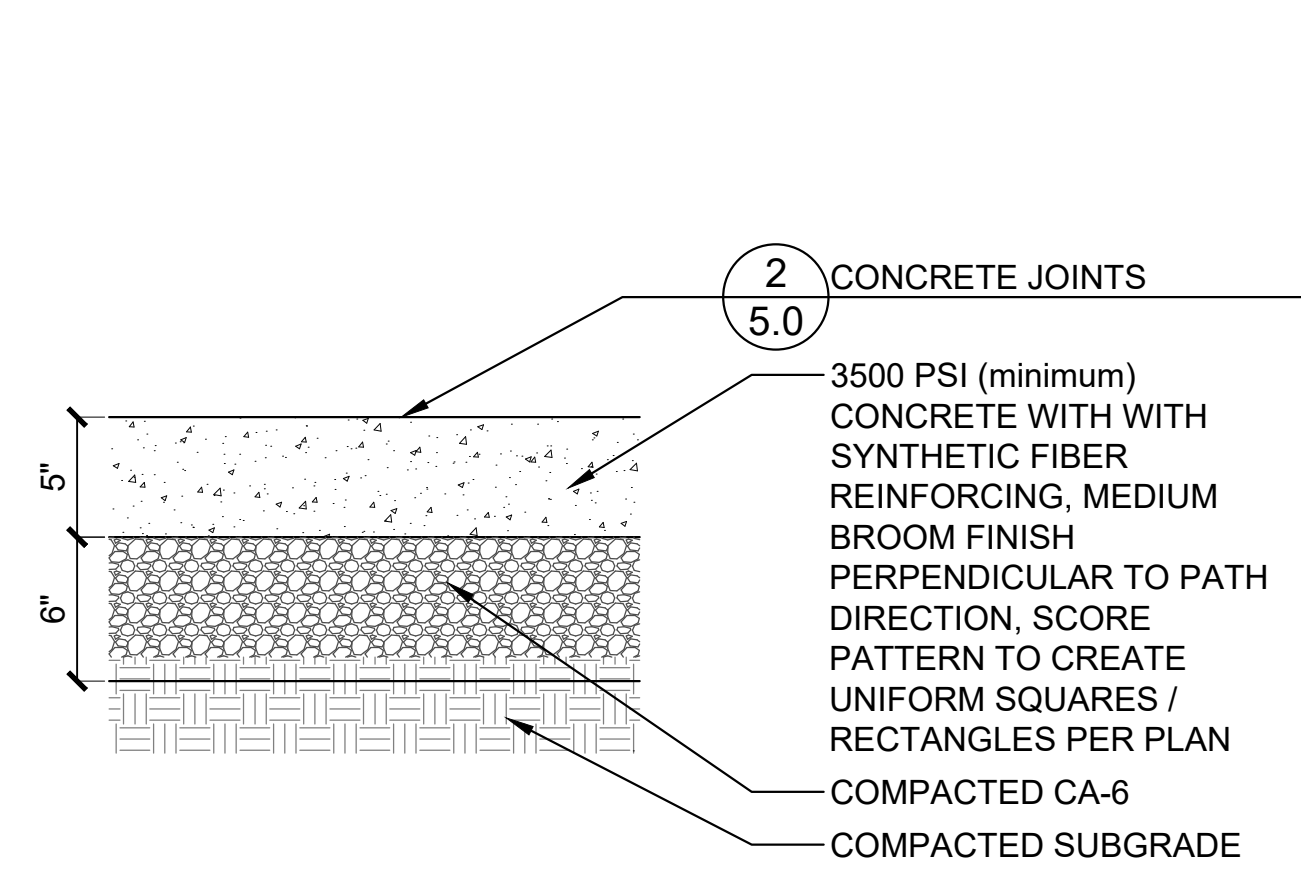
Algonquin Road, South End of Harper College, Palatine, IL 60067

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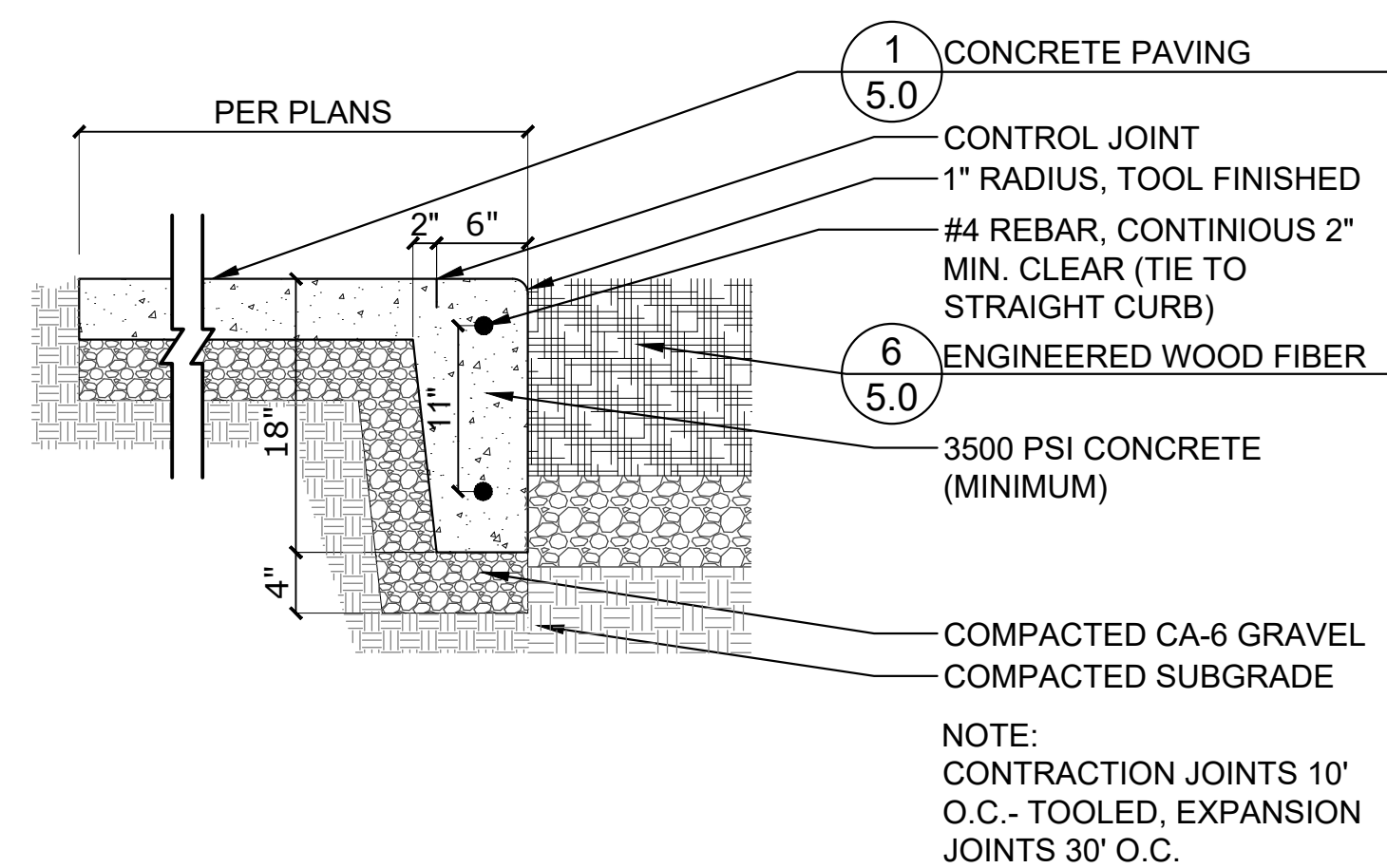


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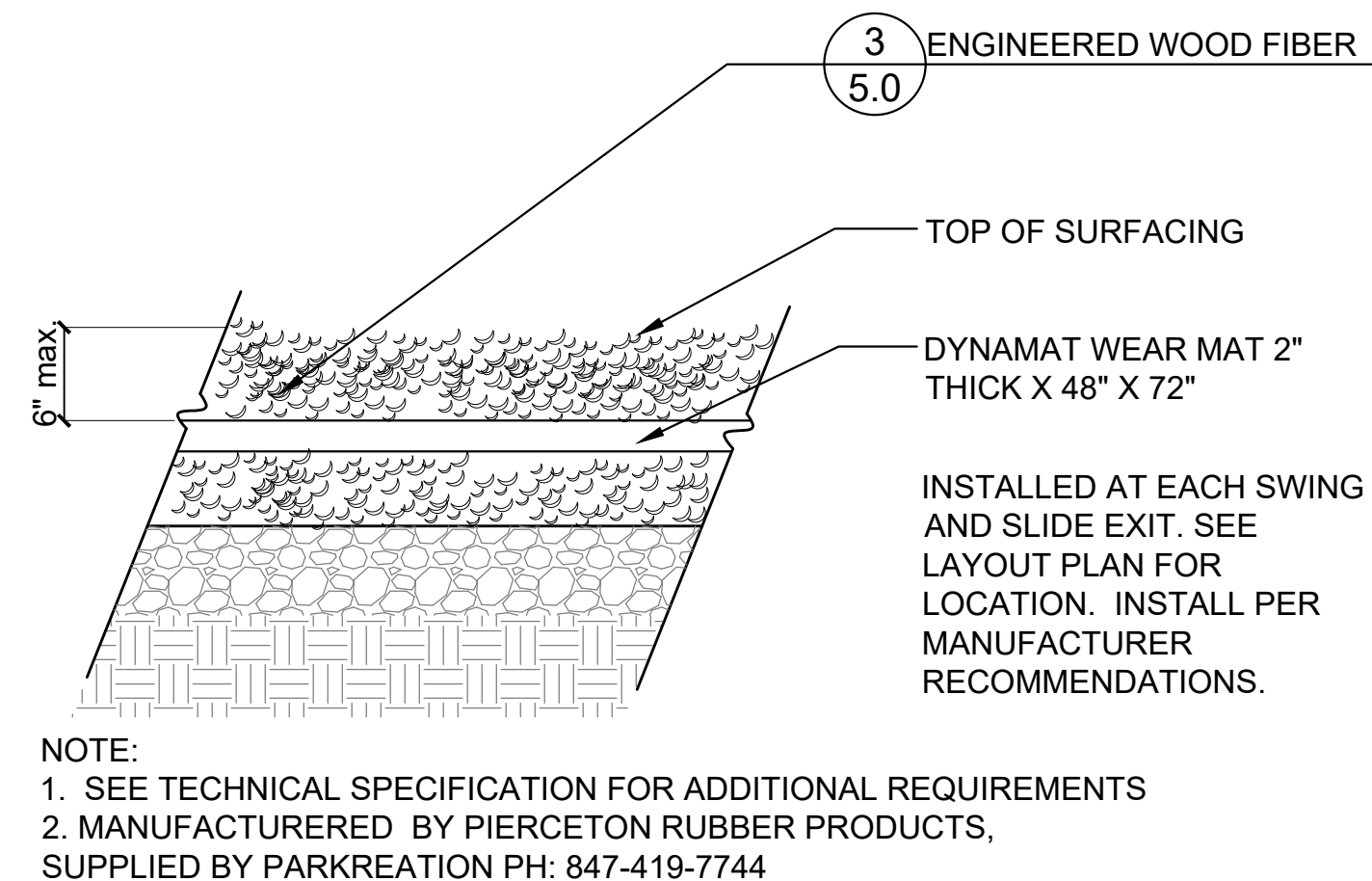
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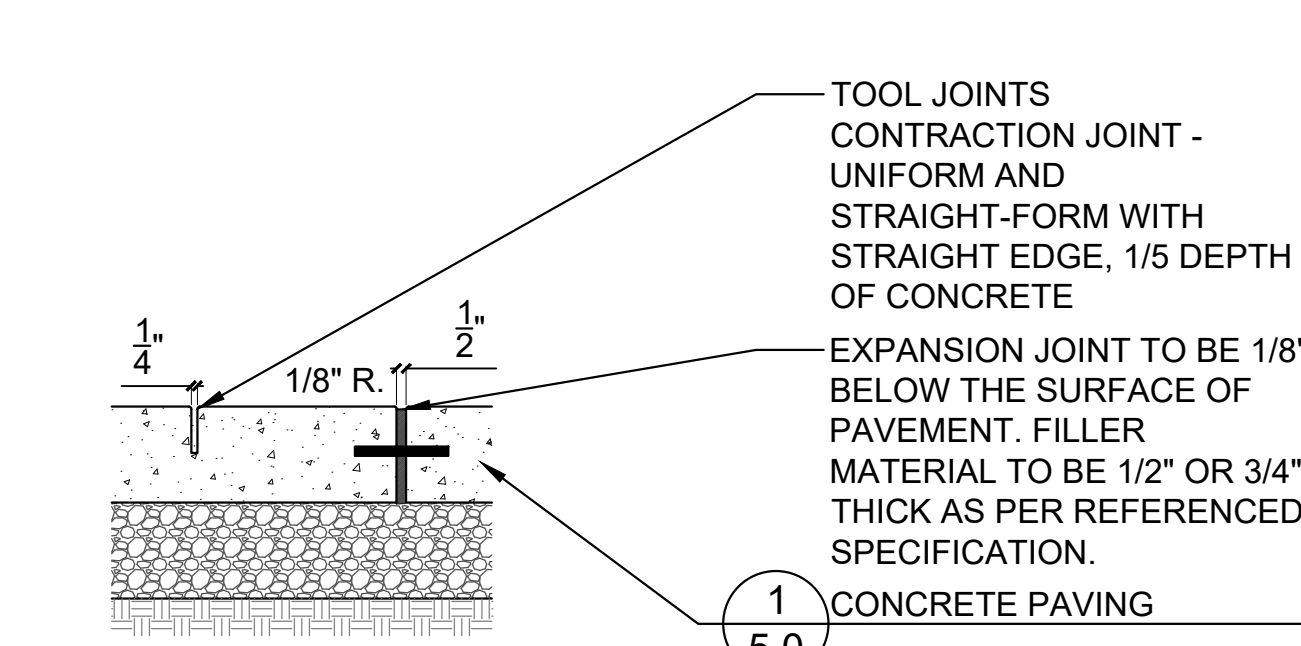
1 Concrete Paving
SCALE: 1 1/2" = 1'-0" d-conc pav-5_8



4 Integral Curb at Walk
SCALE: 1" = 1'-0" d-curb-integral_12

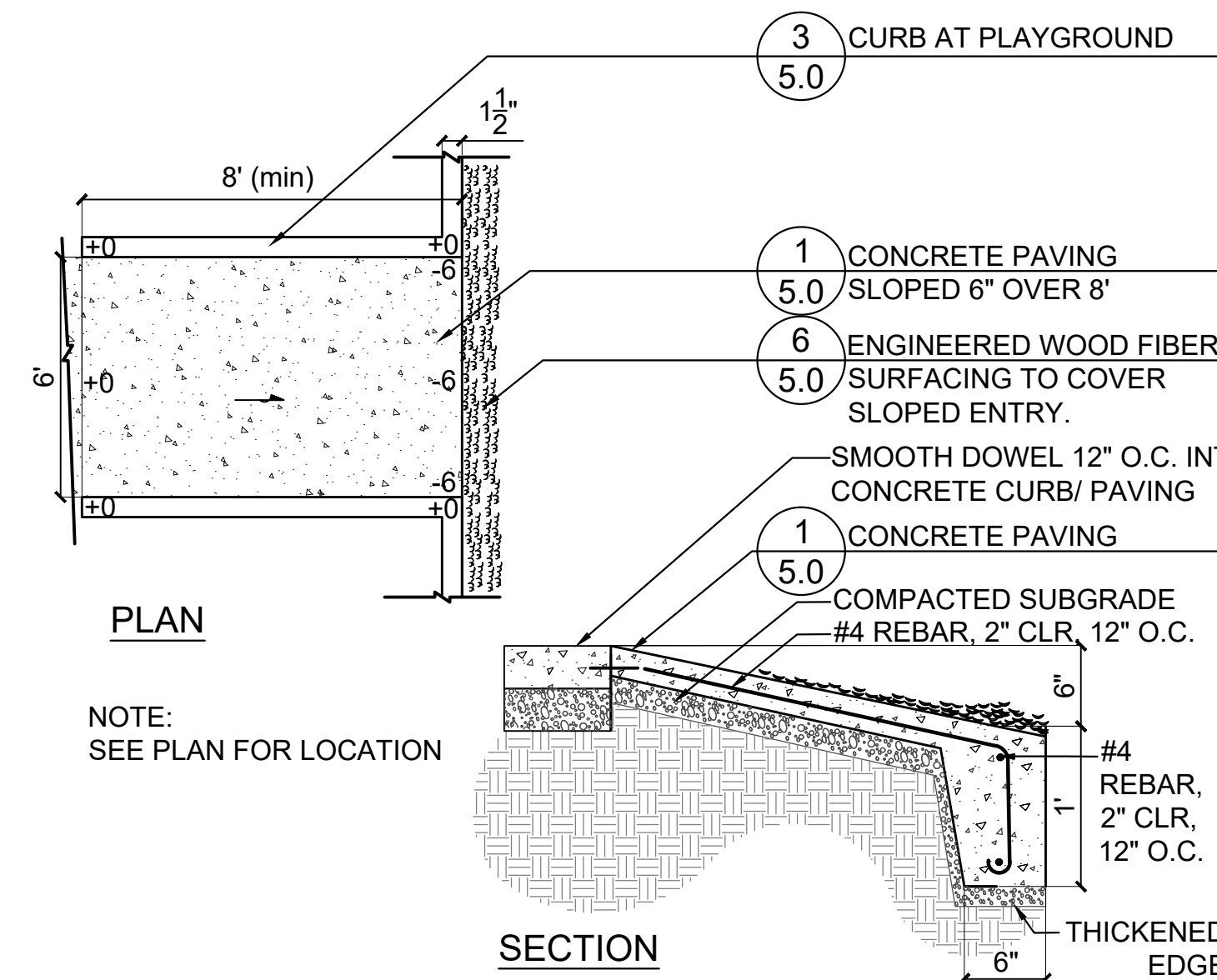


7 DynaMat Wear Mat
SCALE: 1" = 1'-0" d-eng wood fiber_12

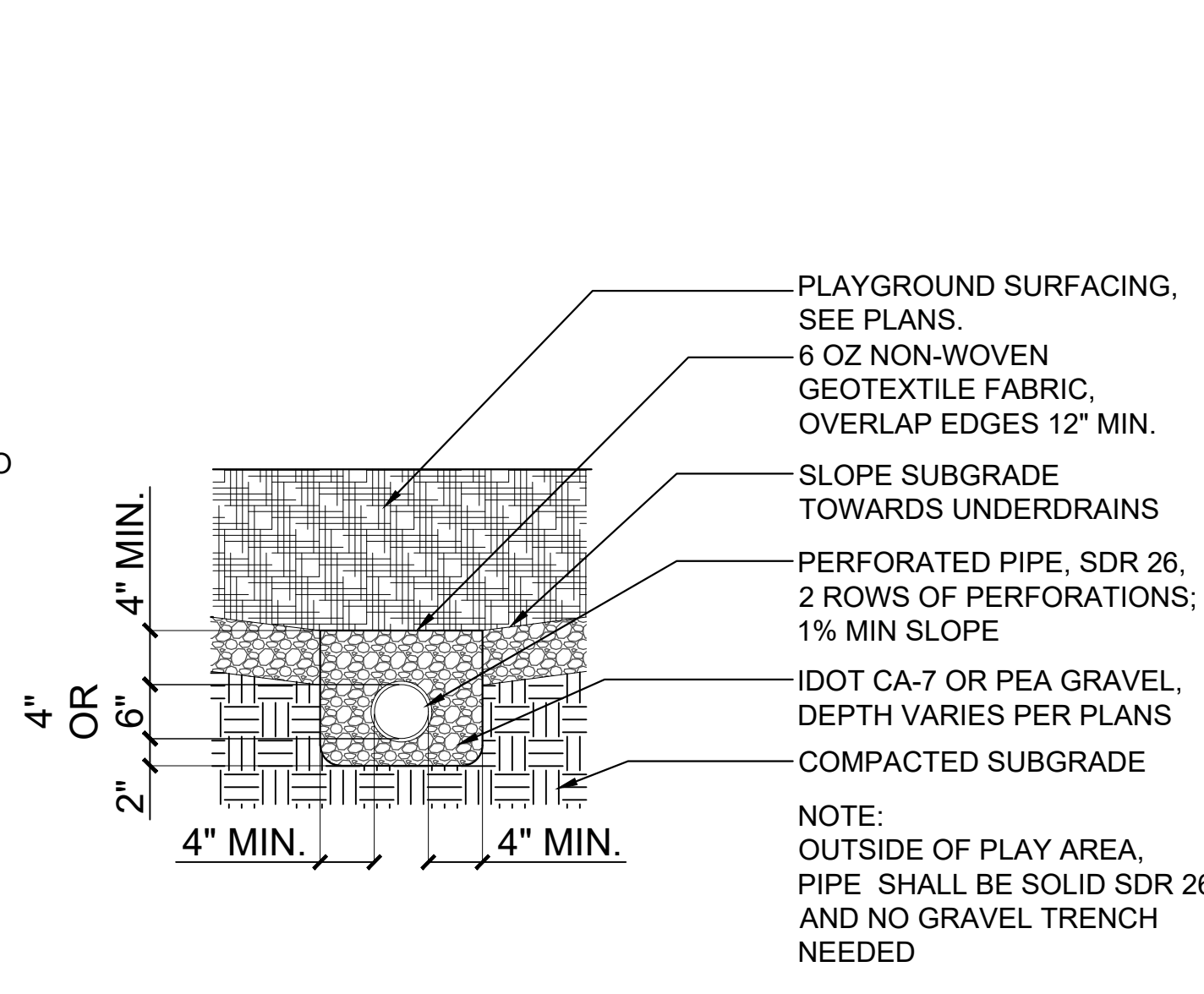


NOTES:
1. JOINTS PLAN TAKES PRIORITY OVER NOTES
2. CONTRACTION JOINTS TO BE PLACED 10' O.C. MAXIMUM
3. EXPANSION JOINTS TO BE PLACED 30' O.C. MAXIMUM
4. PLACE EXPANSION JOINTS BETWEEN NEW CONCRETE POURS AND INSTALL 8" LONG 3/4" DIA. EPOXY COATED BARS, 12" O.C.
5. PLACE EXPANSION JOINTS BETWEEN EXISTING CURB AND/OR EXISTING CONCRETE PAVING AND INSTALL 8" LONG 2 3/4" DIA. EPOXY COATED BARS, 12" O.C.
6. CURB JOINTS TO MATCH CONCRETE PAVING WHERE APPLICABLE
7. NO 'CALIFORNIA JOINTS'

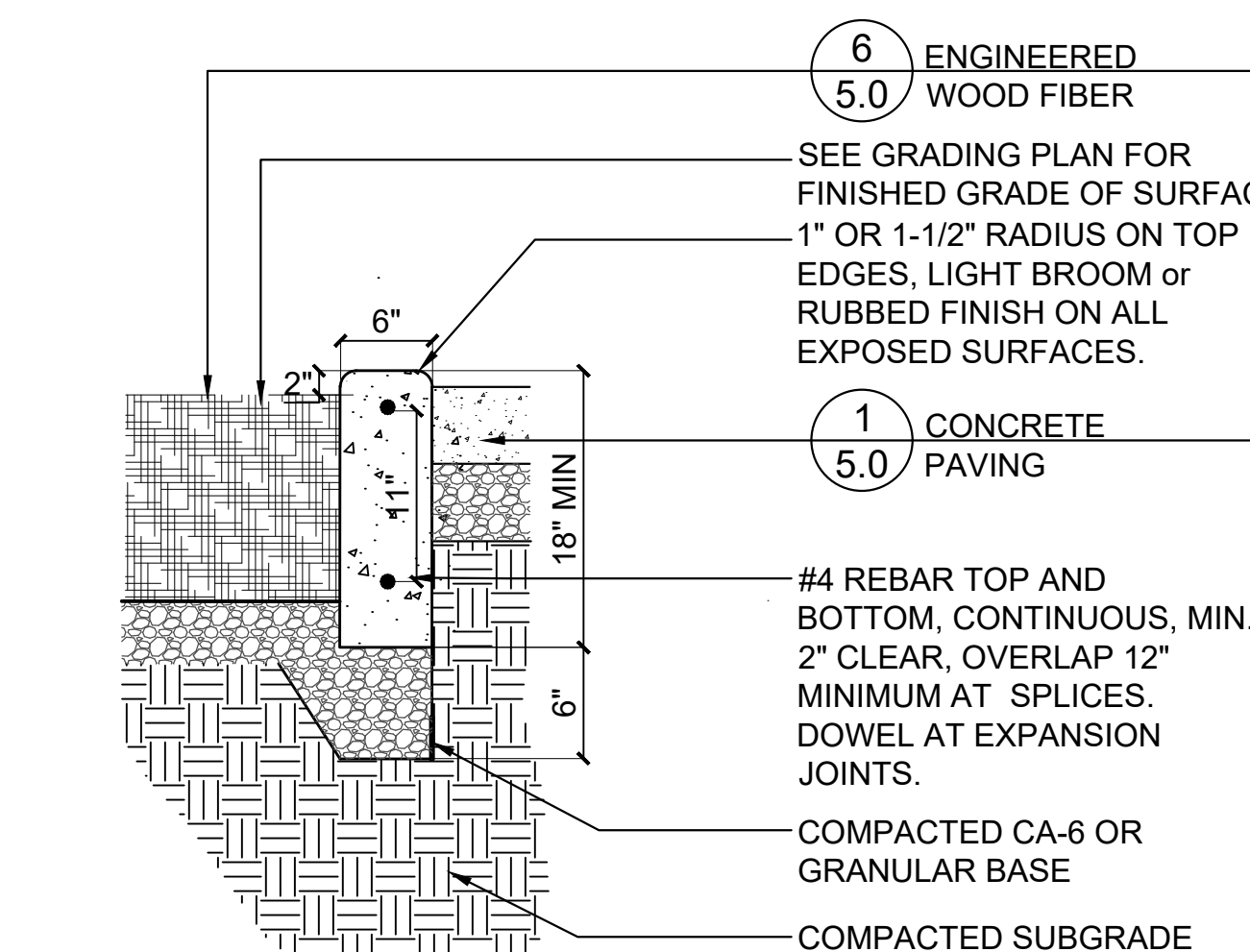
2 Concrete Joints
SCALE: 1 1/2" = 1'-0" d-joints_8



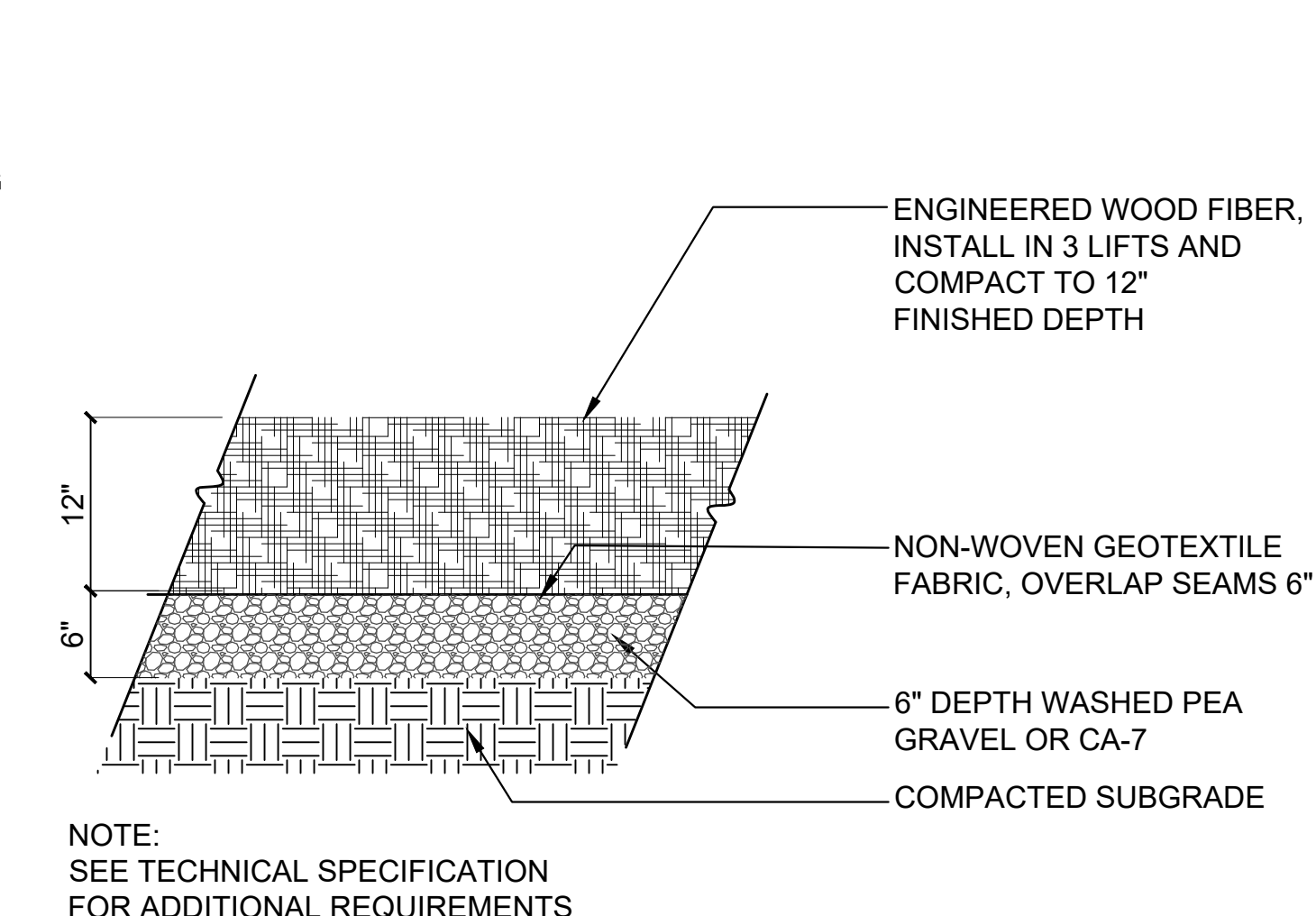
5 Playground Sloped Entry
SCALE: N.T.S. d-conc-sloped-entry-straight_12



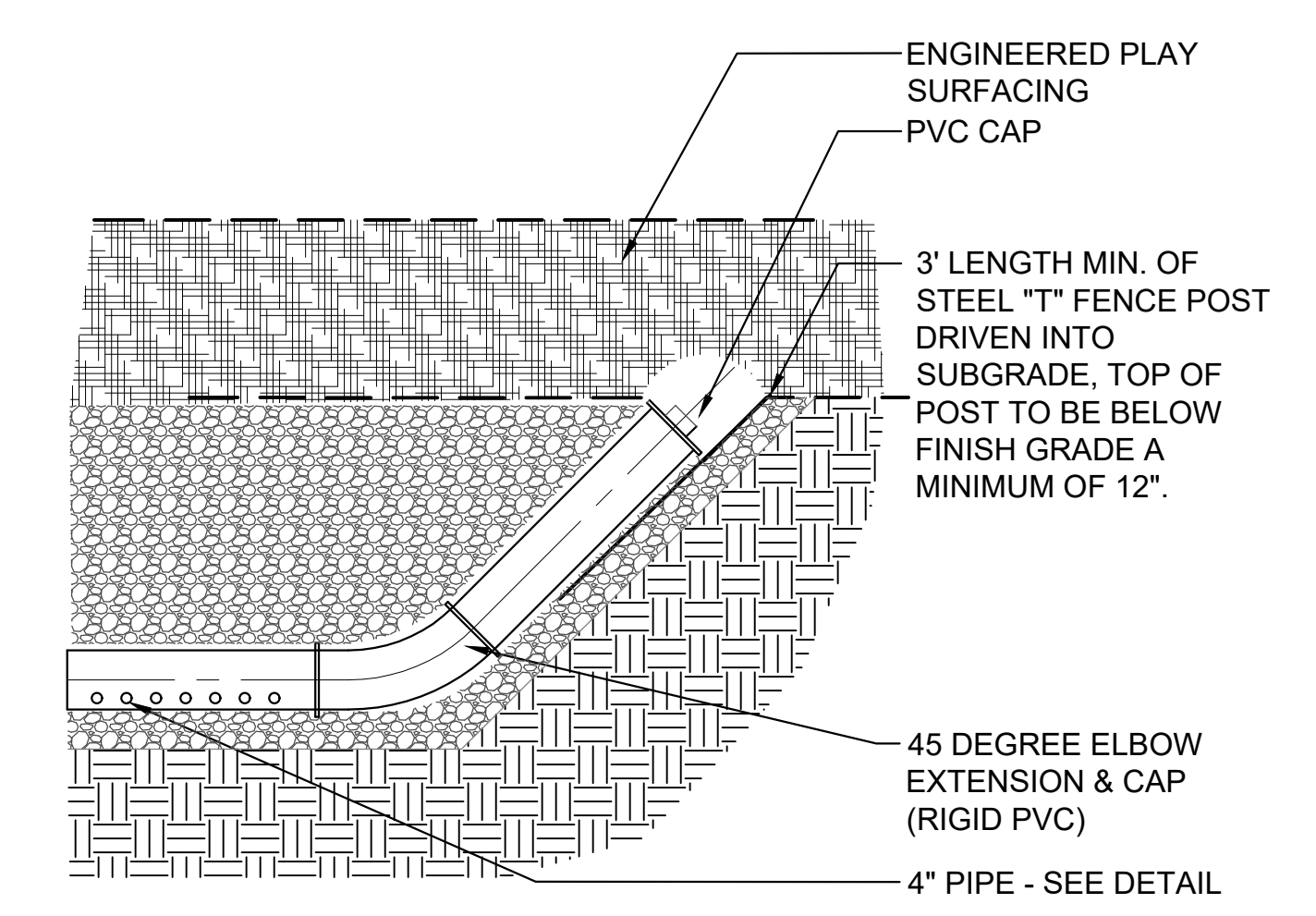
8 Playground Underdrainage
SCALE: 1" = 1'-0" d-playground underdrainage_12



3 Curb at Playground
SCALE: 1" = 1'-0" det-curb play



6 Engineered Wood Fiber
SCALE: 1" = 1'-0" d-eng wood fiber_12



9 Drain Cleanout - EWF
SCALE: N.T.S. d-drain cleanout-EWF_12

SHEET TITLE
Construction Details

SHEET NUMBER **5.0**

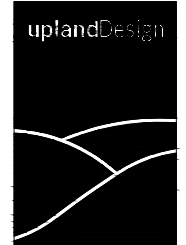
DRAW / REVISION

LD/MR	Issue for Bid	20FEB2020

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Plum Grove Reservoir Park Playground Renovation

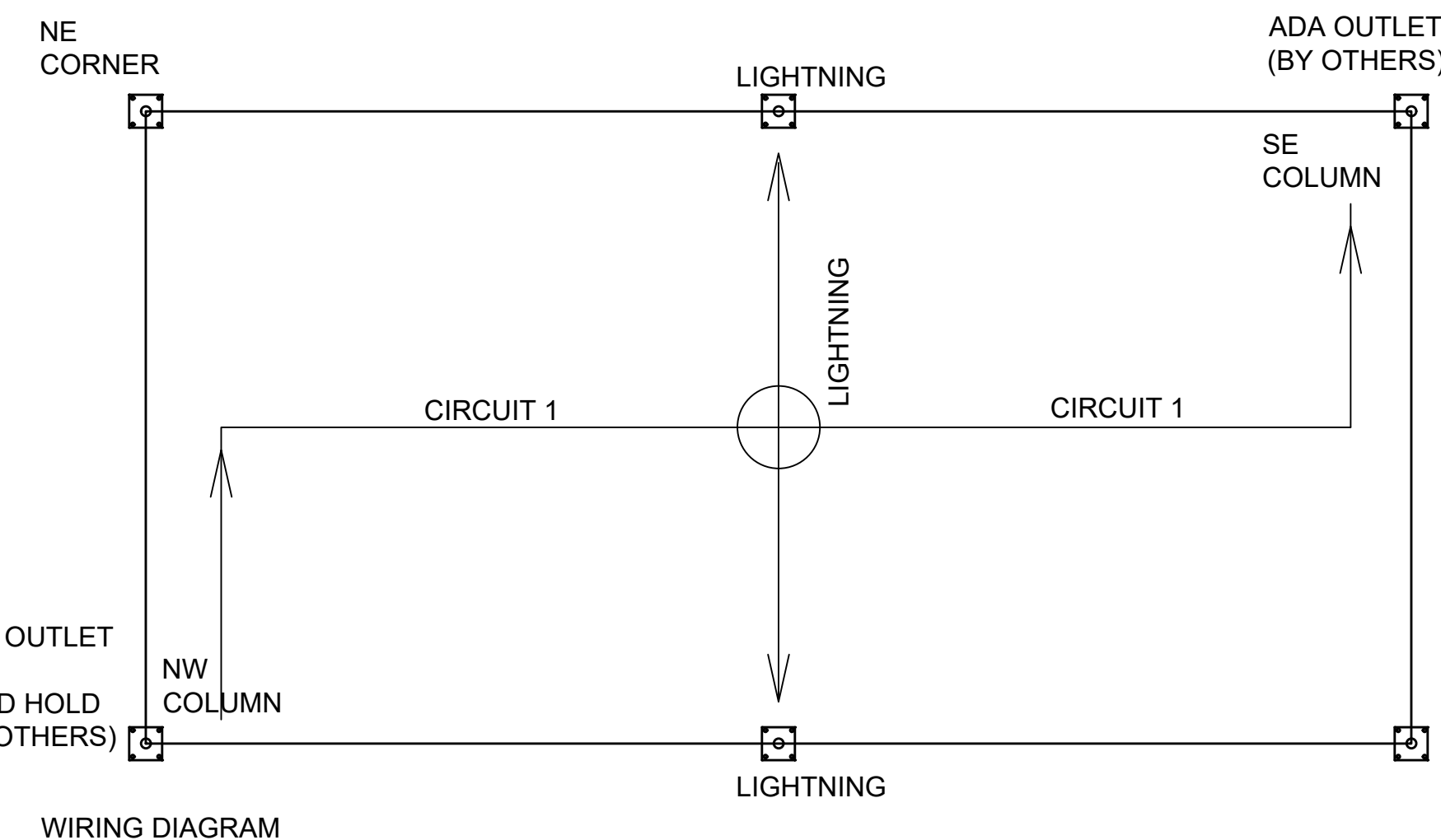
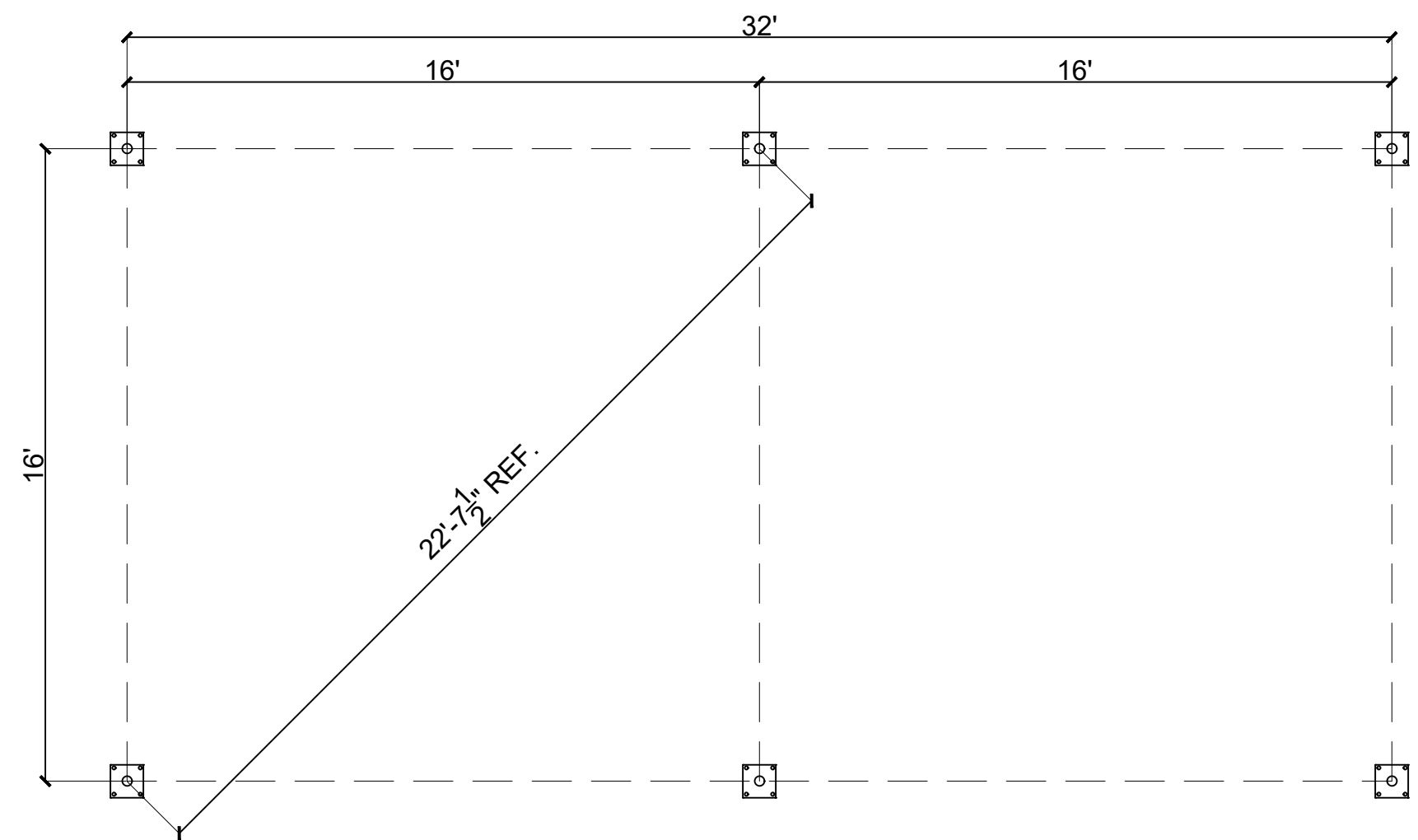
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PROJECT TEAM

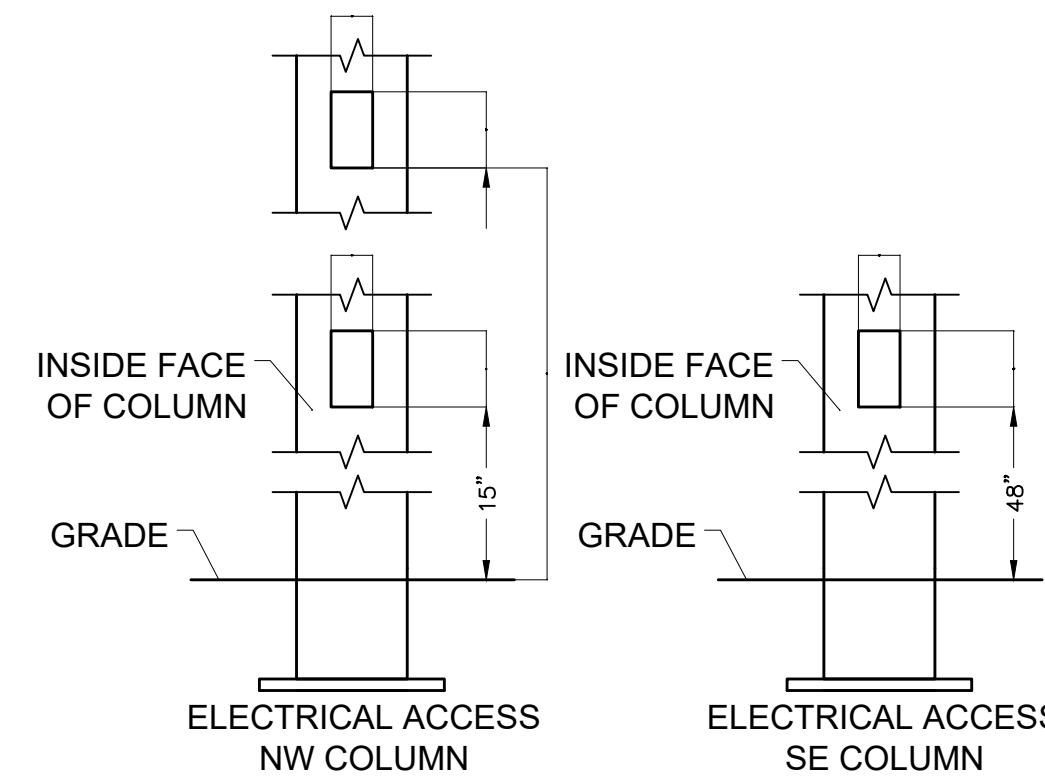
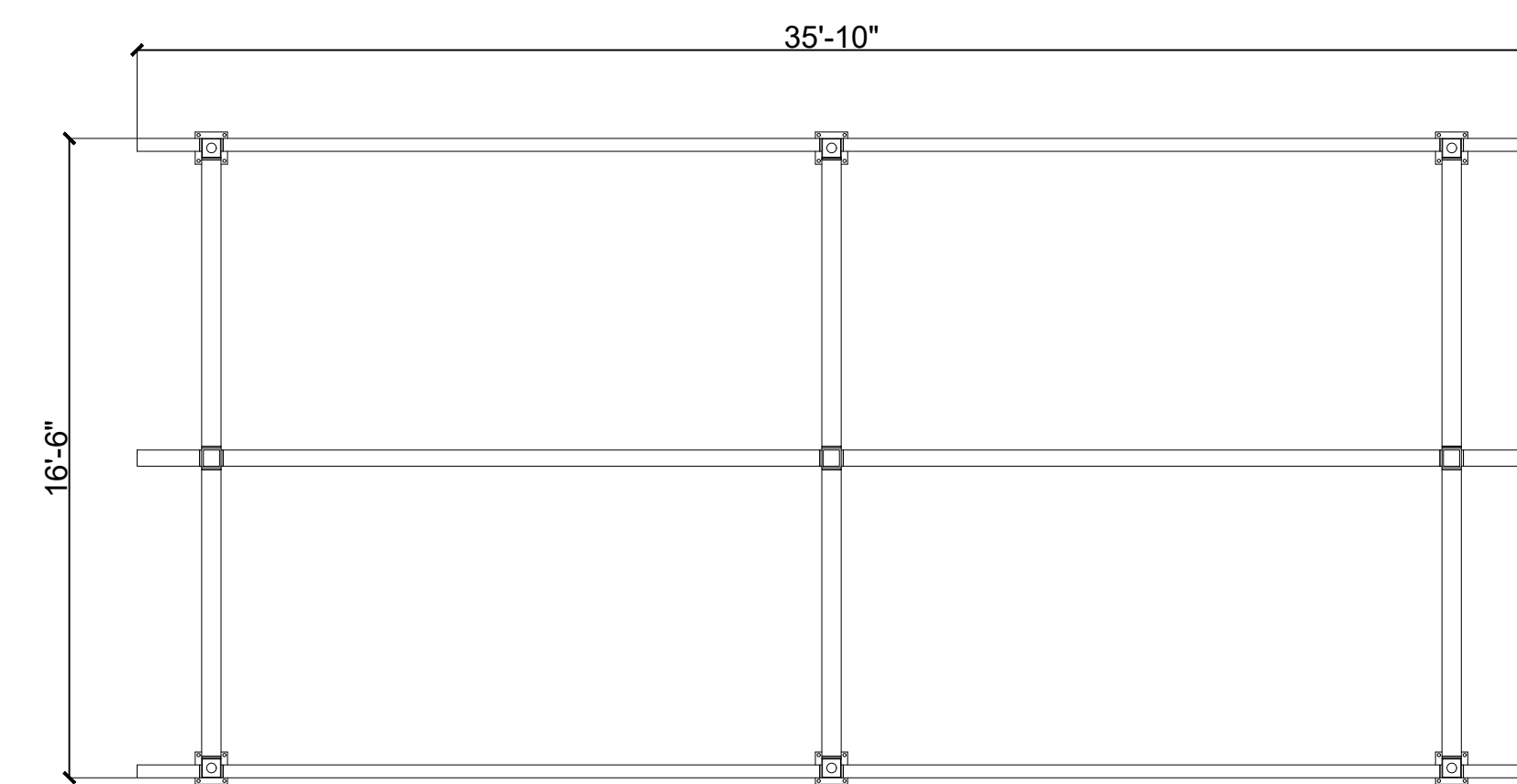


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Park Planning and Landscape Architecture
24042 Lockport St, Plainfield, Illinois 60544
815-254-0091 www.uplanddesign.com



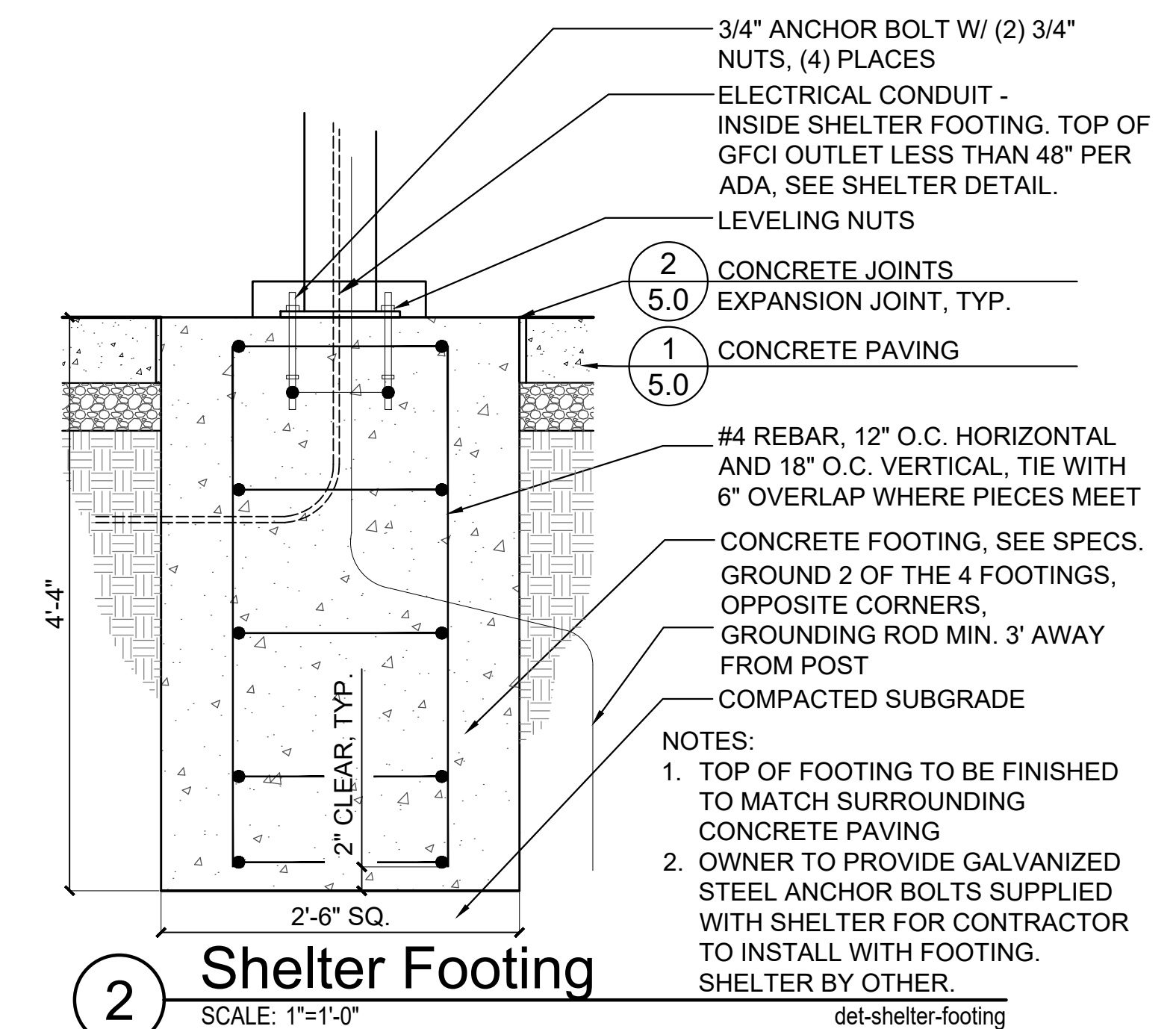
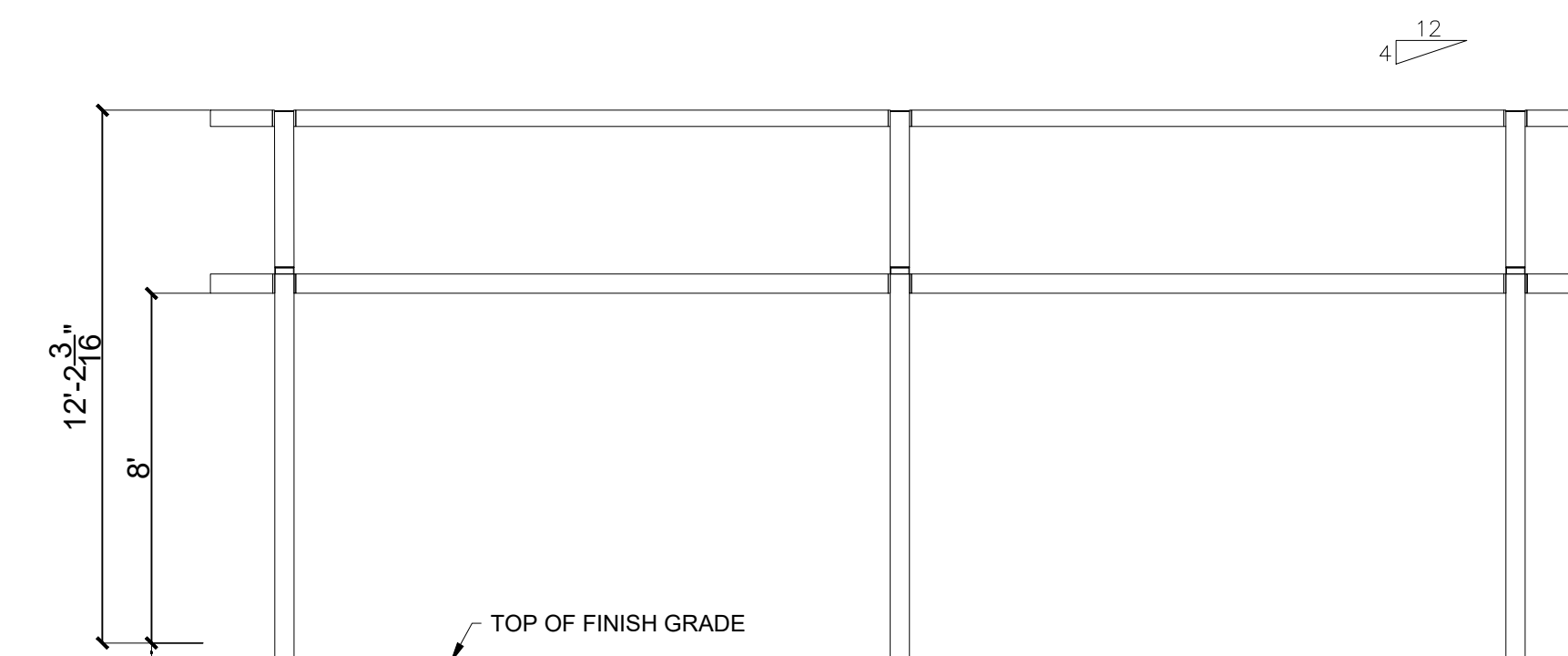
WIRING DIAGRAM



WIRING DETAILS (NTS)

SHELTER NOTES:

- MANUFACTURER: ICON SHELTER SYSTEMS INC. SUPPLIER: PARKREATION, INC. (815) 496-3282
- PRODUCT: RG20X36TM-P4 20' X 36' RECTANGULAR SHELTER, 2X6 TONGUE AND GROOVE ROOF DECK, 24 GA STANDING SEAM METAL ROOF OVER TONGUE AND GROOVE, INSTALLER TO FIELD CUT ALL ROOF ANGLES. 4:12 ROOF SLOPE, ANCHOR BOLTS & TEMPLATES INCLUDED, BASE PLATE COVERS, ECOAT/POWDERCOAT, LIGHTNING PROTECTION KITS.
- CONTRACTOR TO PROVIDE ALL NECESSARY MATERIALS AND EQUIPMENT FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL SUBMIT STAMPED AND SEALED DRAWINGS WITH SHOP DRAWINGS FOR APPROVAL THAT MEET LOCAL BUILDING CODE VERSION.
- CONTRACTOR TO ORDER, TAKE DELIVERY OF SHELTER AND INSTALL COMPLETE. UNCRATE, CHECK, DELIVER TO SITE AND FULLY ASSEMBLE AND INSTALL. CONTRACTOR SHALL FIELD CUT ALL ROOF ANGLES. FOOTINGS SHALL BE INSTALLED BY OTHERS. CONTRACTOR TO COORDINATE WITH FOOTING CONTRACTOR.
- INSTALL LIGHTNING PROTECTION KIT INCLUDING COPPER WIRE AND GROUNDING ROD PER MANUFACTURER'S RECOMMENDATIONS. GROUNDING ROD SHALL BE A MINIMUM OF 3' AWAY FROM POST AND WIRE SHALL RUN THROUGH FOOTING TO INNER CHANNEL OF POST. ALTERNATE SHALL COORDINATE WITH BASE BID FOOTING INSTALLATION FOR GROUNDING WIRE INSTALLATION.
- BASE COVERS TO BE INSTALLED AT ALL POSTS. BASE COVER COLOR TO MATCH POST COLOR.
- CONTRACTOR TO PREPARE SHELTER FOR ELECTRICAL FIXTURE INSTALLATION.
- CONTRACTOR TO INSTALL 1 1/2" RGS CONDUIT IN SHELTER COLUMN.
- CONTRACTOR TO PULL (3) #12 OUTDOOR ROMEX WIRE THROUGH CONDUIT LEAVING A MINIMUM OF 24" EXTRA AT EACH FUTURE FIXTURE.
- FINAL LIGHT AND OUTLET INSTALLATION BY OTHERS.
- CARE SHALL BE TAKEN TO PREVENT SCRATCHING AND MARRING OF PAINT ON STEEL CONNECTORS. ANY BLEMISHES SHALL BE TOUCHED-UP WITH MATCHING PAINT PRIOR TO FINAL ACCEPTANCE.
- SHELTER SHALL BE ECOAT / POWDERCOAT FINISH. POSTS COLOR SHALL BE: ASH GRAY
- SHELTER ROOF SHALL BE 24GA STANDING SEAM METAL ROOF PANEL WITH 4.5" TONGUE AND GROOVE ROOF DECK. COLOR TO BE: REGAL BLUE



Shelter Footing
SCALE: 1"=1'-0"

- NOTES:
- TOP OF FOOTING TO BE FINISHED TO MATCH SURROUNDING CONCRETE PAVING
 - OWNER TO PROVIDE GALVANIZED STEEL ANCHOR BOLTS SUPPLIED WITH SHELTER FOR CONTRACTOR TO INSTALL WITH FOOTING. SHELTER BY OTHER.

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

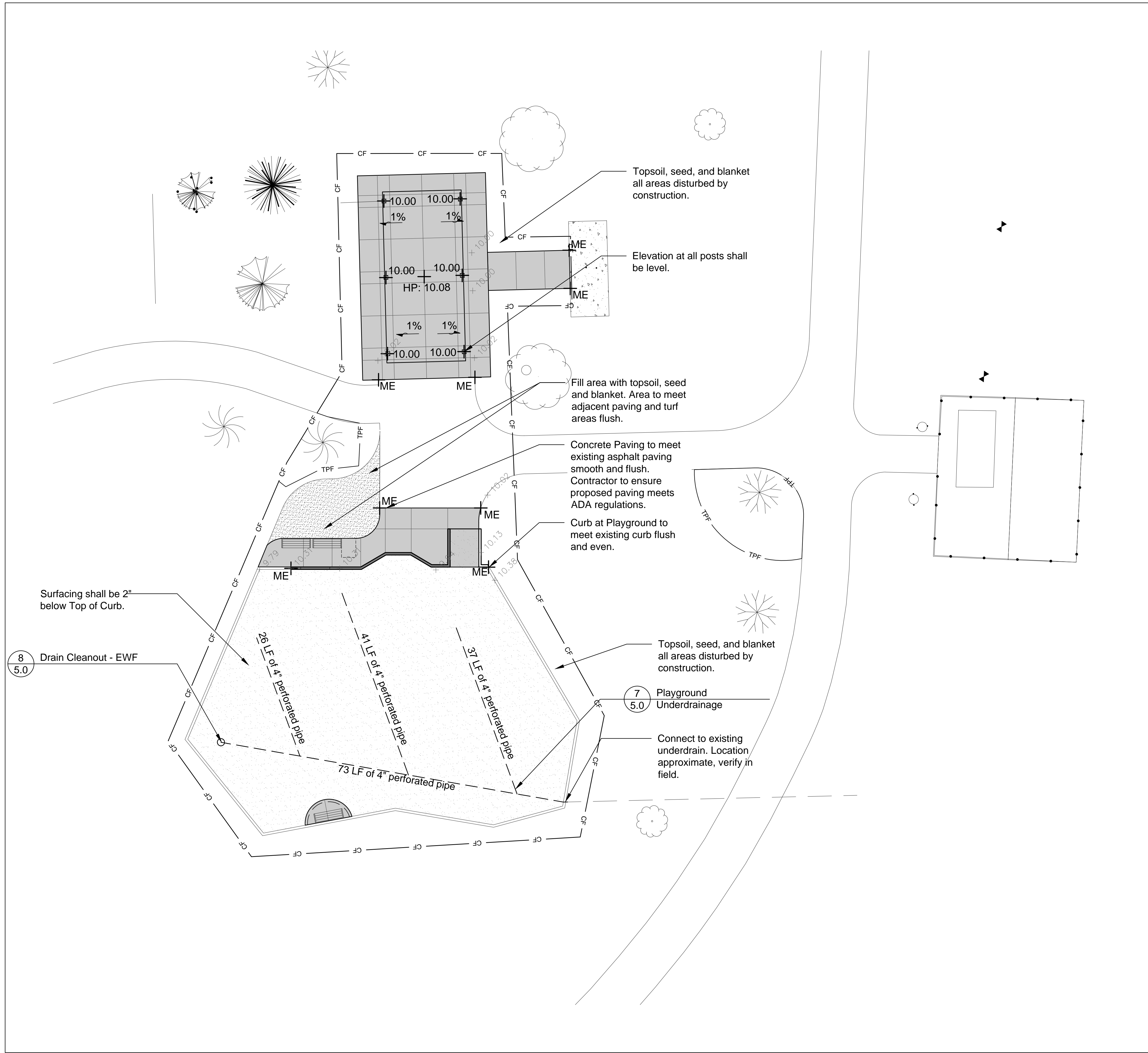
d-shelter-20X36_48

SHEET TITLE
Shelter Details

SHEET NUMBER **5.1**

DRAW / REVISION

LD/MR	Issue for Bid	20FEB2020



GENERAL NOTES: GRADING

1. Finished surfaces to be smooth and even with no abrupt or awkward changes in grade. Paving to meet adjacent grades flush and smooth.
2. Contractor shall restore all areas disturbed as a result of construction.
3. Spot elevations taken by Owner, Contractor to confirm all grades in field.
4. All walks, drives and paved areas are to follow ADA per incorporated specifications. Any deviation shall be removed and reinstalled to follow this law.
5. All Accessible Route paving shall not exceed 4.5% in any direction. Cross slopes shall be less than 2%. Contractor shall slope all walks and slabs to eliminate ponding, ADA Turning Radius paving shall be less than 2% in all directions.
6. This work shall include the excavation, stockpile, and placement of topsoil and suitable excavated material along with removal of all excess topsoil and debris off site and dispose of legally.
7. Follow the Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control, IEPA Standards and Specifications for Soil Erosion and Sedimentation Control, and U.S. Soil Conservation Service Field Engineering Handbook.
8. Dimensions are in feet or degrees. Dimensions are perpendicular & parallel unless otherwise noted.
9. Transitions between paving types (i.e. concrete to asphalt) shall be smooth. Transitions not to exceed 1/8" vertical or horizontal difference.
10. Finished surfaces to be smooth and even with no abrupt or awkward changes in grade. Paving to meet adjacent grades flush and smooth.
11. All play equipment footings shall meet manufacturers recommendations for footing depth and width.



250 E. Wood Street,
Palatine, Illinois 60067
Phone: 847-991-0333

PROJECT
Plum Grove Reservoir Park Playground Renovation

Algonquin Road, South End of Harper College,
Palatine, IL 60067

PROJECT TEAM

Park Planning and Landscape Architecture
24042 Lockport St, Plainfield, Illinois 60544
815-254-0091 www.uplanddesign.com

LEGEND

- 681 --- Existing Contour Line
- 681 — Proposed Contour Line
- + 685.35 Existing Spot Elevation
- + 689.66 Proposed Spot Elevation
- 2% — Drainage Flow Direction
- CL — Construction Limits

INDEX OF ACRONYMS AND ABBREVIATIONS

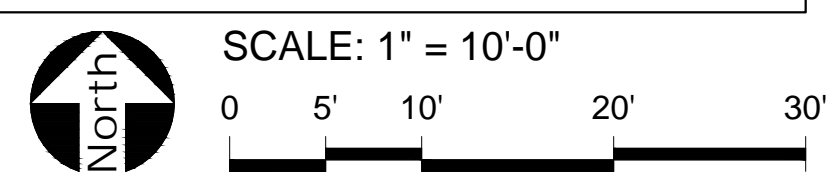
- High Point (HP)
- Low Point (LP)
- Top of Curb (TC)
- Top of Pavement (TP)
- Top of Wall (TW)
- Match Existing Elevation (ME)
- Pipe Invert Elevation (INV)
- Top of Rim Elevation (RIM)

SHEET TITLE
Grading Plan

SHEET NUMBER **4.0**

DRAW / REVISION

LD/MR	Issue for Bid	20FEB2020
LD/MR	Addenda #1	27FEB2020











Date: August 17, 2020

802

To: James Holder, Palatine Park District

From: Michelle Kelly, Upland Design Ltd

RE: ADA Costs for Plum Grove Playground Renovation & Shelter

The total cost of the renovation of Plum Grove Playground and Shelter Renovation completed in 2020 is \$225,903. Below is a list of the elements that were included to meet the Federal and State ADA and create accessible playground.

\$ 4,500	Removal of asphalt paving and concrete paving
\$ 6,369	Installation of concrete walks and entry ramp into EWF
\$ 3,147	Engineered wood fiber surfacing (EWF) – at 25% Costs
\$32,417	Accessible Play Pieces Purchase <ul style="list-style-type: none">▪ ADA Swing▪ Omni Spinner –Ground Level▪ Transfer Module (existing)▪ Ground Level Pieces and Above Ground Pieces – Accessed by Transfer
\$ 9,435	Installation of the Accessible Play Pieces
\$ 2,870	Professional Design Fees

Plum Grove Total: \$58,738

Project Location **Palatine Stables** 10/28/2020
by **Jim Holder** in **Member District ADA Project Request** id. 18037483
ADAProjects@palatineparks.org

Original submission 10/28/2020

Name **Jim Holder**

Job Title **Superintendent of Parks & Planning**

E-mail Address **jholder@palatineparks.org**

Phone Number **847-705-5131**

Park District **Palatine**

Project Status **New Alteration**

Project Type **Routes and Surfaces**

Routes and Surfaces- select a Project Category below: **Accessible Routes- Means of Egress
Parking Spots
Sidewalks**

Benefits of the Project **Allows individuals with mobility issues to access to the facility from the new parking area. The designated areas prior to the improvement was a gravel parking lot. The new sidewalk replaced old deteriorated brick pavers.**

Items that will become ADA Compliant **Access to the facility.**

The project is designed or constructed, or applies human resources, to comply with: **The 2010 Standards for Accessible Design
The Illinois Accessibility Code
Agency's ADA Transition Plan**

Upload Project Related Files, Photos, Videos or Audio

[Stables_ADA_Calculations.pdf](#)

[Palatine_Stables_Payout.pdf](#)

[2020-09-21_2020_Park_Improvements_-_Palatine_Stables_-_Revised_Per_Village_Comments.pdf](#)

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[IMG_20201027_110549589.jpg](#)

[IMG_20201027_110615277.jpg](#)

[IMG_20201027_110641566.jpg](#)

[GeWalt_Palatine_PD_2020.pdf](#)

Budget Table for ADA Related Expenses

[27e97836-c947-4c65-8802-b21838db4ca0.xlsx](#)

ADA Dollars Requested	52800
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Notes related to requested amount	Cost was determined by actual direct costs.
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PALATINE PARK DISTRICT 2020 PARK IMPROVEMENTS PALATINE STABLES

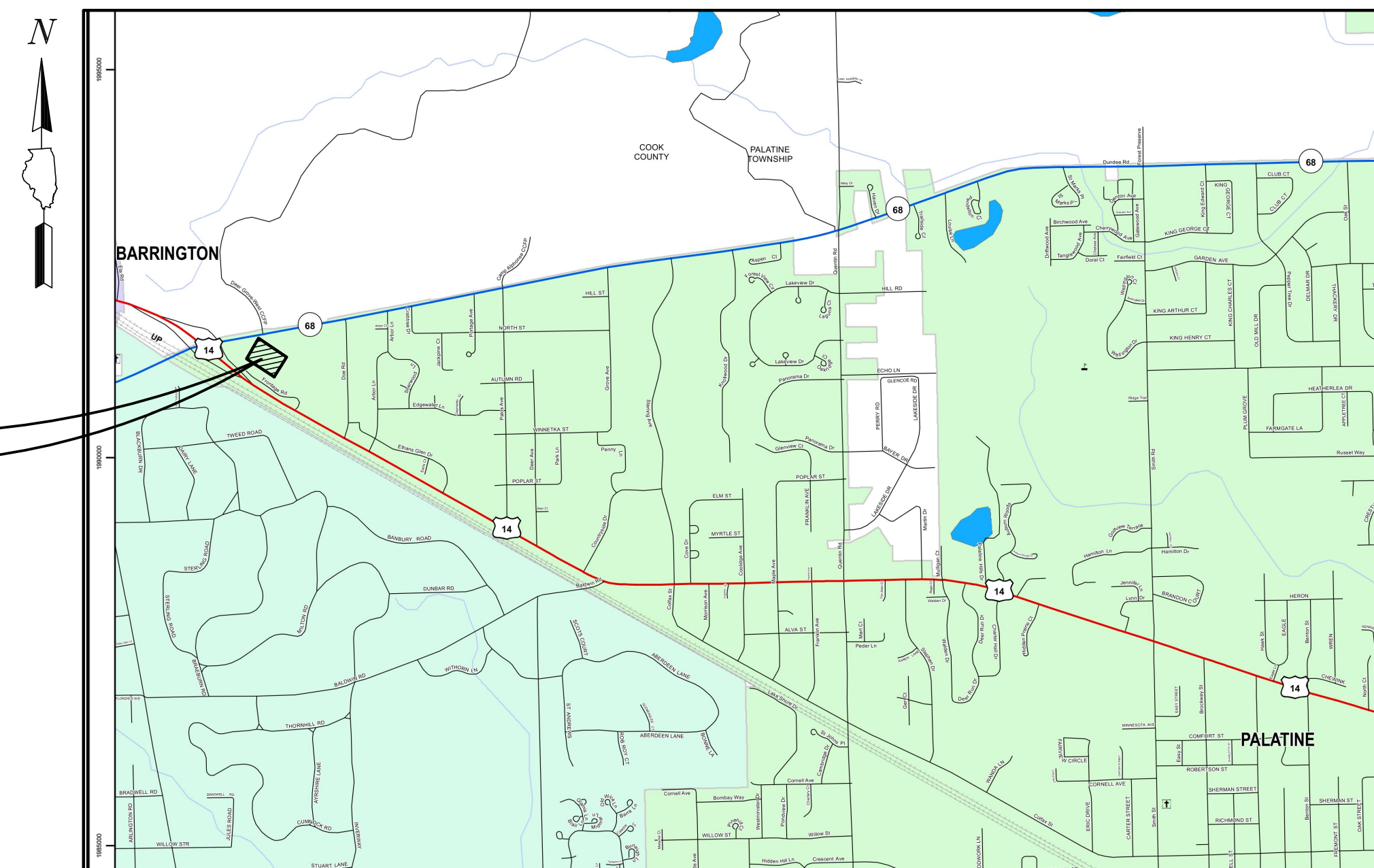
STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		
COMBINE SEWER LINE		
CONTOUR		
CULVERT		
DITCH/SWALE		
ELECTRIC LINE		
ELECTRIC MANHOLE		
FENCE		
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE		
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES		
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION		
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE		
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE-CONIFEROUS (SIZE/TAG#)		
TREE-DECIDUOUS (SIZE/TAG#)		
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE		

SHEET INDEX

1. TITLE SHEET
2. EXISTING CONDITIONS/DEMOLITION PLAN
3. GEOMETRIC PLAN
4. GRADING PLAN
5. GENERAL NOTES & DETAILS

PALATINE STABLES
VILLAGE OF PALATINE, ILLINOIS



LOCATION MAP
(Not to Scale)

TOPOGRAPHIC SURVEY BY:
GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

PLANS PREPARED FOR:

PALATINE PARK DISTRICT
250 EAST WOOD STREET
PALATINE, ILLINOIS 60067
TELEPHONE: 847-991-0333

COORDINATING/PERMITTING AGENCIES:

PALATINE PARK DISTRICT 847-991-0333

BENCHMARK:

ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING
TRIMBLE VRS[®] NOW[™] (NO PUBLISHED MONUMENT VERIFIED)
DATUM: NAVD88

CONTROL POINTS:

Point #	Northing	Easting	Elevation	Description
1	1990866.33	1050192.56	858.25	CP1-NAIL
2	1990760.71	1050387.93	851.24	CP2-NAIL

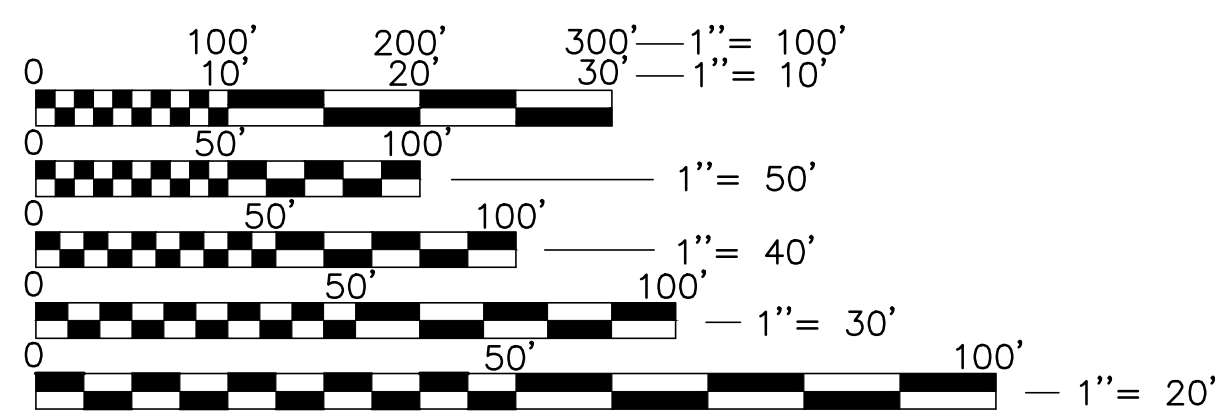


SIGNED: P.E.

DATE: 09-21-20

ILLINOIS LICENSE NO.: 062-051136

EXPIRATION DATE: NOVEMBER 30, 2021



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

J.U.L.I.E

JOINT
UTILITY
LOCATION
INFORMATION FOR
EXCAVATION
CALL 811



Know what's below.
Call before you dig.

09-21-20 REVISED PER VILLAGE COMMENTS

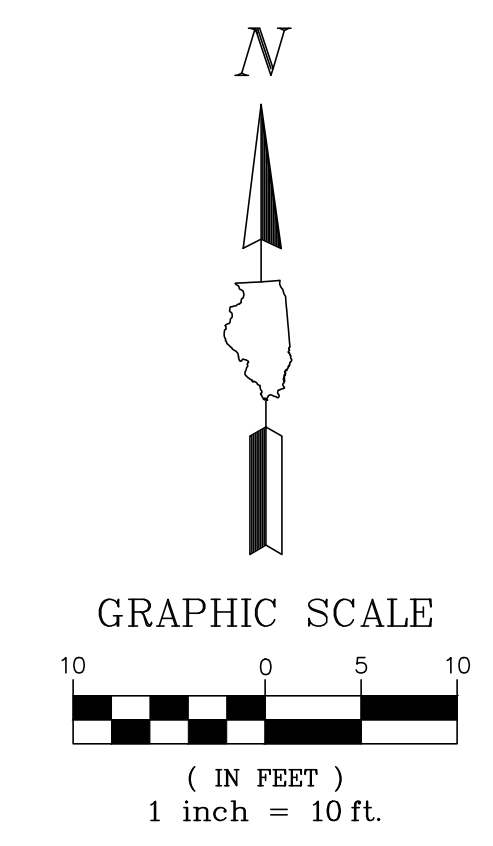
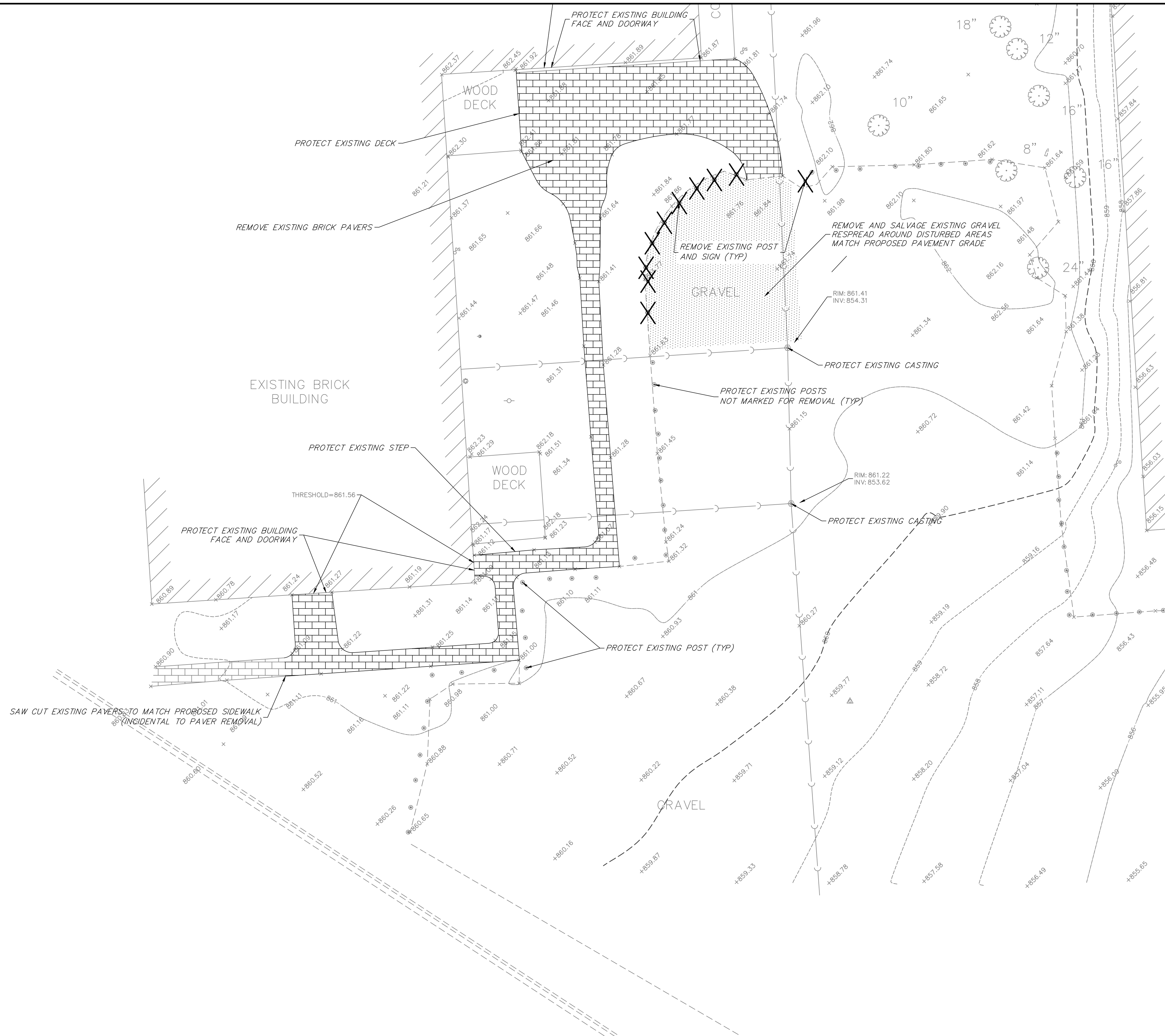
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625 Forest Edge Drive ■ Vernon Hills, IL. 60061
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TITLE SHEET
PALATINE PARK DISTRICT
2020 PARK IMPROVEMENTS
PALATINE STABLES

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
1	JEH	09-21-20	SHEET 3				

FILE: 5241.214-DT1.dwg	SHEET NUMBER:
DRAWN BY: JEH	GHA PROJECT #
DATE: 09-21-20	5241.214
CHECKED BY: DED	SCALE:
DATE: 09-21-20	N/A
	OF 5 SHEETS



EXISTING CONDITION AND DEMOLITION NOTES

1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per IEPA NPDES guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. The contractor shall be responsible for fencing the active work zone from the public and protecting the public from any construction related hazards. At a minimum, all excavation, demolition areas and other areas potentially hazardous to pedestrians and vehicles must be protected.
5. At all times, main drive, loading docks, and dumpster areas shall remain open and unobstructed. Temporary shut down of one traffic lane at a time will be permitted for short term periods and shall be coordinated with appointed Property Owner construction staff. Short term closings shall be completed within the work day and restored to unobstructed access by the close of the work day.
6. Temporary stone or asphalt pathways shall be provided as needed throughout the course of construction to facilitate safe pedestrian and vehicular movement. The longitudinal slope of such paths shall not exceed 5% and cross slopes shall not exceed 2%. Provide 6" CA-6 base and 2" surface asphalt.
7. The existing facilities will remain open and actively used. Contractor shall refer to mechanical, electrical and architectural plans and coordinate with utility companies to ensure continuous utility services during demolition and transitioning of services.
8. The contractor is responsible for the demolition and disposal of all existing improvements onsite necessary to complete the job. These improvements include, but are not limited to, existing pavements, curbs, sidewalks, utilities, lighting, light bases, manholes, fences, foundations, and other structures within the work area. Excavate and grade to proposed pavement and building subbase grades. (Refer to foundation plans for proposed building subbase grades.) These items shall be completely removed and legally disposed of offsite.
9. Temporarily remove, store and protect sign and posts within affected work zone for reinstallation. Coordinate onsite storage with Property Owner.
10. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.

REMOVAL LEGEND

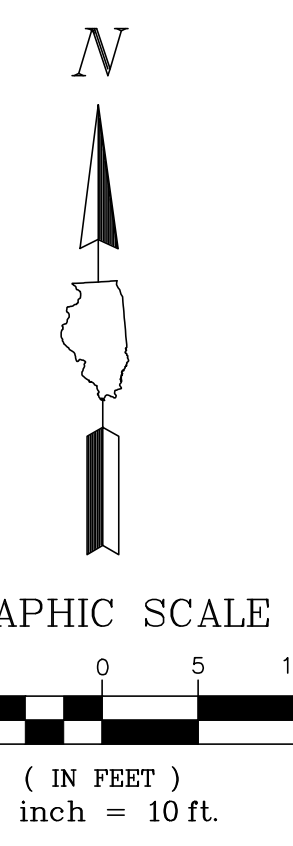
- BRICK REMOVAL
- GRAVEL AGGREGATE REMOVAL, STOCKPILE, RESPREAD

EXISTING CONDITIONS/DEMOLITION PLAN

**PALATINE PARK DISTRICT
 2020 PARK IMPROVEMENTS
 PALATINE STABLES**

NO.		BY		DATE		REVISION		NO.		BY		DATE		REVISION			
FILE: 5241.214-PR1.dwg												DRAWN BY: JEH		GHA PROJECT #		SHEET NUMBER:	
DATE: 08-24-20												5241.214		2			
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DATE: 08-24-20												1"=10'					

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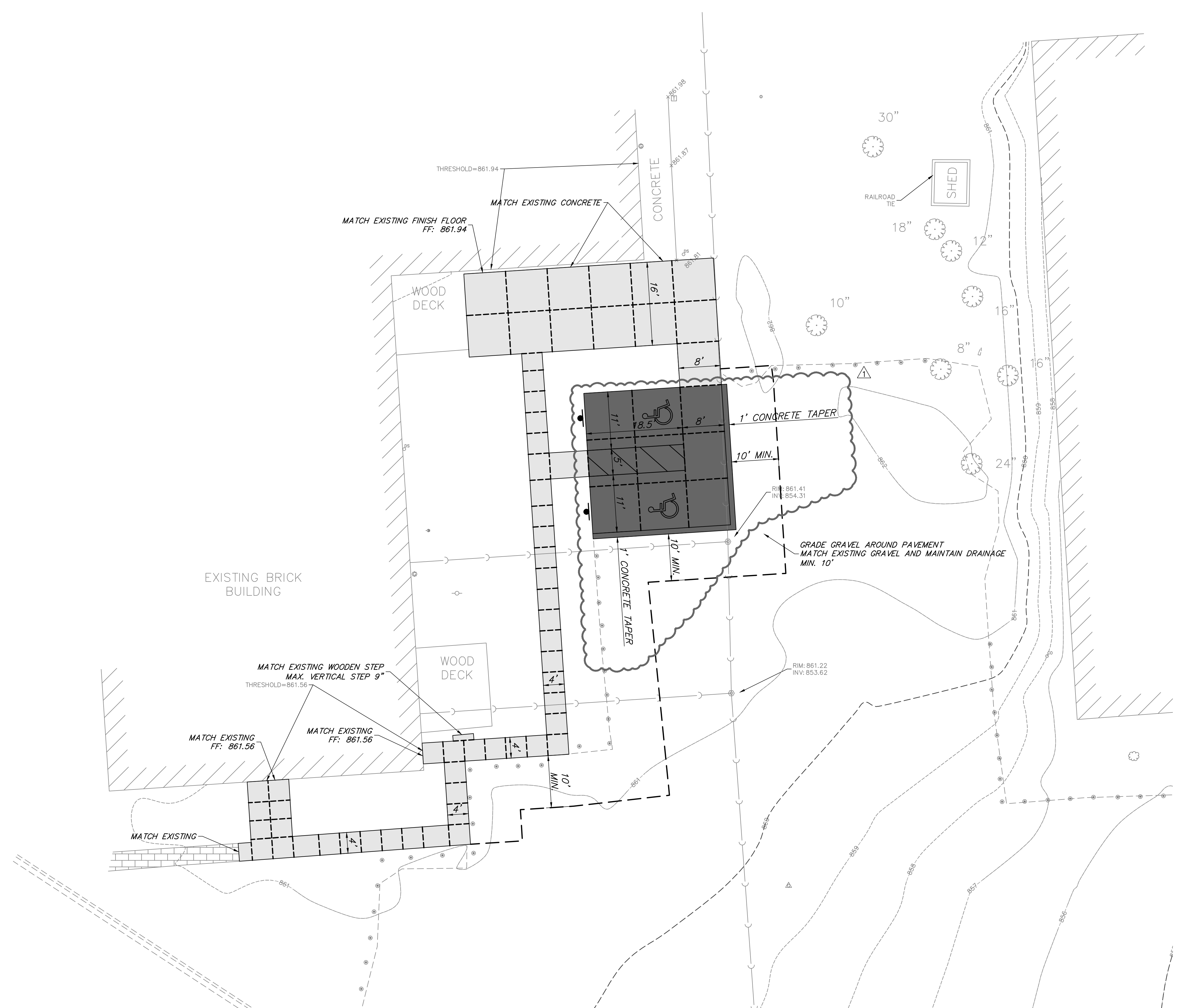


GEOMETRIC AND PAVING PLAN

1. All pavement dimensions are to edge of pavement, unless otherwise noted.
2. Install all pavement and sidewalk as shown. Dowel new sidewalk and pavement to existing pavement per general notes.
3. Provide 1.90% cross slope and 4.5% maximum longitudinal slope on all sidewalks and pedestrian path ways unless otherwise indicated. Illinois accessibility code requires a maximum constructed cross slope of 2.00% and longitudinal slope of 5.00%.
4. Install PCC pavement as shown. Refer to detail sheet for specific pavement section and general notes for construction, testing and compaction requirements.
5. All parking lot stall markings shall be 4" Yellow paint and all other parking lot pavement markings shall be paint, color as noted, in accordance with Section 780 of the IDOT Standard Specifications. (Two single applications, 16 mils each required). Site pavement marking shall be coordinated with Site engineer. Contractor shall notify site engineer 48 hrs prior to installing pavement marking.
6. For handicapped stall markings, refer to Handicapped Parking Stall and Sign Dimensioning Detail.
7. Install new signs and handicapped parking signs using 2" galvanized square tube post and telescoping post sleeve per IDOT standard.
8. Contractor shall install temporary erosion control seed and blanket as necessary to meet soil erosion and sediment control requirements. Refer to notes and details throughout the plan set for specific material requirements.
9. For final restoration, the contractor shall be responsible for restoring all disturbed turf areas and proposed turf areas as follows:
 - a. Prior to placement of topsoil restoration area subgrade material shall be rototilled and re-compacted to a maximum of 80% standard proctor to a depth of 6".
 - b. Spread a minimum of 6" of existing site salvaged screened topsoil or new pulverized topsoil on all disturbed areas. Compact to 80% standard proctor.
 - c. Topsoil must be free of litter, brush, rocks and earth clods of greater than 1 inch in any dimension. Contain between 1%-10% organic matter, 12%-50% clay, and less than 55% sand content. pH shall be between 6.0 and 8.0.
 - d. Seed restoration areas as follows:
 - IDOT Class 1 seed. (Lawn mixture)
 - Fertilizer shall be applied following IDOT requirements.
 - Erosion control blanket shall be North American Green S75 or approved equal installed following manufacturer guidelines.
 - e. Sod restoration areas as follows:
 - Sod shall be 24" wide x 54" long or 2.5' by 30' long thick cut (1-1/2") of well rooted growth material.
 - Seed mixture shall closely match IDOT Class 1.
 - Sod shall be rolled after installation.
 - f. Contractor shall be responsible for watering the restored area per IDOT specifications for a duration of 30 days prior to the Owner's final review and acceptance. If restoration has not shown a "catch" or uniform stand, the contractor shall repeat reseeding or resodding until a uniform stand is achieved.
13. Once restoration has been completed, the contractor shall remove erosion control devices. Silt fence trenches shall be backfilled and restored in kind. Storm structures shall be cleaned of debris.

PROPOSED LEGEND

- PCC SIDEWALK, 5"
- PCC PAVEMENT, 6"



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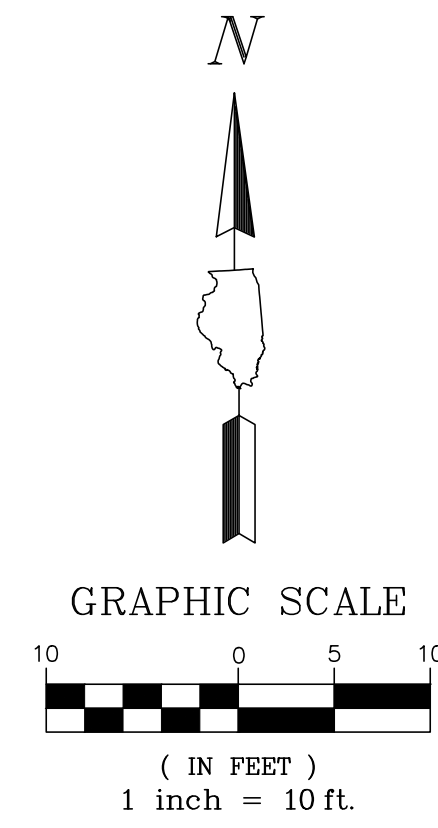
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 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

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GEOMETRIC PLAN
PALATINE PARK DISTRICT
2020 PARK IMPROVEMENTS
PALATINE STABLES

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
1	JEH	09-21-20	DIMENSIONS ADDED PER VILLAGE COMMENTS				

FILE: 5241.214-PR1.dwg		SHEET NUMBER:
DRAWN BY: JEH	GHA PROJECT #	3
DATE: 09-21-20	5241.214	
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DATE: 09-21-20	1"=10'	

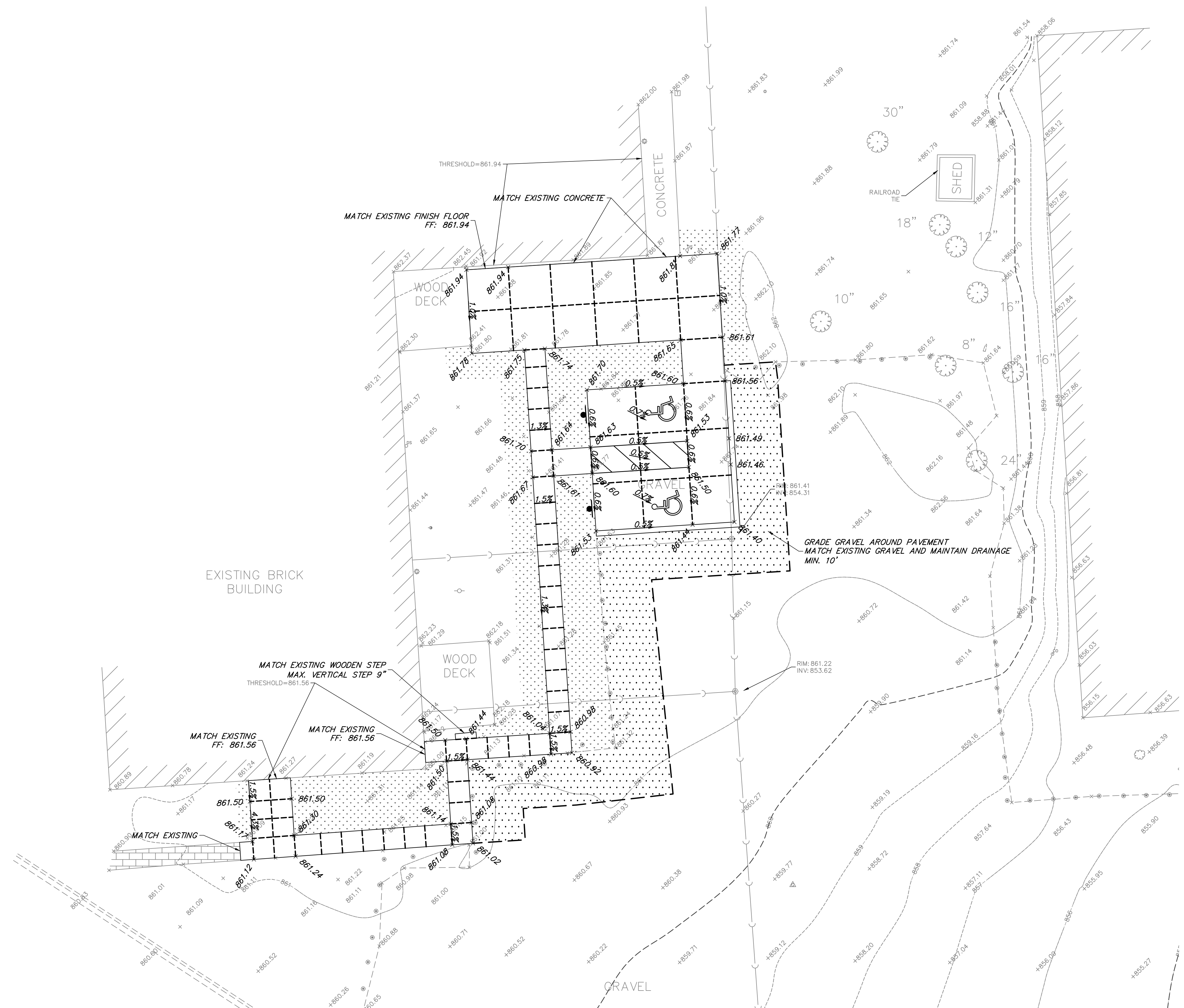


GRADING PLAN NOTES

1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per IEPA NPDES guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. Refer to General Notes for grading, compaction and proof roll requirements.
5. Handicap accessible parking spaces shall be constructed between 1.0% and 1.90% maximum slopes in any one direction. Illinois accessibility code permits a maximum constructed slope of 2.00%.
6. Crushed concrete meeting IDOT certifications for the design plan gradations for non-porous pavement and sidewalk stone base, structural fill, and trench backfill will be permitted.
7. Crushed concrete may not be used for underdrain trench or porous fill conditions.
8. The contractor shall import or export soil as necessary to construct the site to specified plan grades. Such work is considered incidental to the contract and no additional compensation shall be allowed for such work. Minor adjustments to grades can be accommodated with Project Engineer approval.
9. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.
10. Refer to general notes and details for seed and blanket requirements for temporary stabilization.
11. Contractor shall provide the following as-constructed documents at the conclusion of the project:
 - a. Lawn or open space areas
 - Spot elevations at a maximum 50 foot grid.
 - Spot elevation top and bottom of berms or swales
 - Spot elevations and ridge / high and low points.
 - b. Parking lot and hard surfaces
 - Top of curb and flowline elevations at similar locations to proposed grading.
 - Spot elevations at summit / high and low points.
 - c. ADA parking stalls, sidewalk ramps, and ADA Routes
 - Provide 6 spot elevations within the parking stall 3 along the front and rear of the stall at 8 foot spacing along the stall pavement markings.
 - Provide 4 spot grades per square at landings and any tampers or ramps.
 - Provide spot elevations along route at maximum 10 foot spacing on both sides of the path to confirm cross and longitudinal slopes requirements have been met.

GRADING LEGEND

- PROPOSED SPOT ELEVATION
- SLOPES
- TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH SEEDING, CLASS 4
- GRAVEL AGGREGATE



GRADING PLAN

**PALATINE PARK DISTRICT
2020 PARK IMPROVEMENTS
PALATINE STABLES**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.214-PR1.dwg	SHEET NUMBER:
DRAWN BY: JEH	GHA PROJECT #
DATE: 08-24-20	5241.214
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TEL 847.478.9700 ■ FAX 847.478.9701

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GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE ILLINOIS PLUMBING CODE, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILICIT DISCHARGES FROM THE SITE.

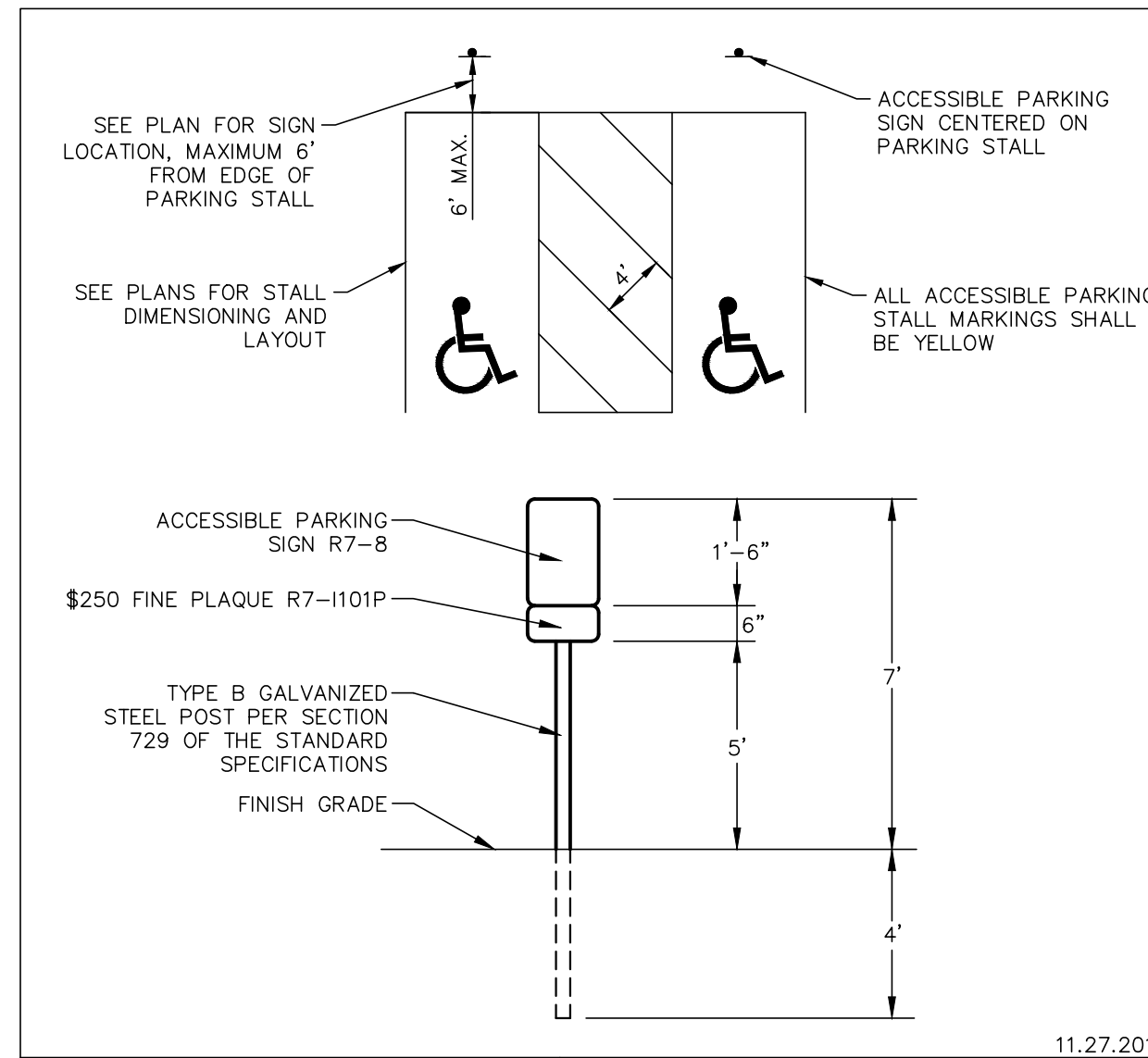
PROJECT SPECIFIC NOTES

- THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE, SUFFICIENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY DETENTION VOLUMES; RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL WATER MAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY THE **PALATINE PARK DISTRICT (847-359-9664) AND THE PROJECT ENGINEER (847-478-9700)** AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON **NGVD 29/NAVD 88** VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED
- PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.
- CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL CONNECTIONS TO EXISTING STORM MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.

- ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONCRETE MEETING REQUIREMENTS OF SECTION 1020. ALL SIDEWALKS, CURBS AND POST FOUNDATIONS SHALL BE CLASS SI 3,500 PSI @ 14 DAYS. ALL PAVEMENT SHALL BE CLASS PV 3,500 PSI @ 14 DAYS. WHERE NOTED ON THE PLANS HIGH EARLY CONCRETE SHALL BE CLASS PV TYPE III 3,500 PSI CONCRETE @ 3 DAYS. ALL CONCRETE REQUIRING A CURE TIME FASTER THAN 3 DAYS SHALL HAVE A MIX DESIGN SUBMITTED TO THE ENGINEER FOR APPROVAL. WHEN REQUIRED BY THE MUNICIPALITY, FLY ASH SHALL NOT BE USED IN THE MIX DESIGN. SLUMP SHALL BE 2-4" AND AIR CONTENT SHALL BE BETWEEN 5-8% UNLESS MODIFIED BY ARTICLE 1020.04.
- ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
- UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
- ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
- ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698)
- SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.
- ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ILLINOIS SUPPLEMENT OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.
- ALL SIGNAGE NOT ATTACHED TO SIGNAL OR LIGHTING POLES SHALL BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORTS WITH BREAKAWAY BASES IN ACCORDANCE WITH SECTION 728.
- ALL SIGNAGE SHALL HAVE TYPE ZZ SHEETING.

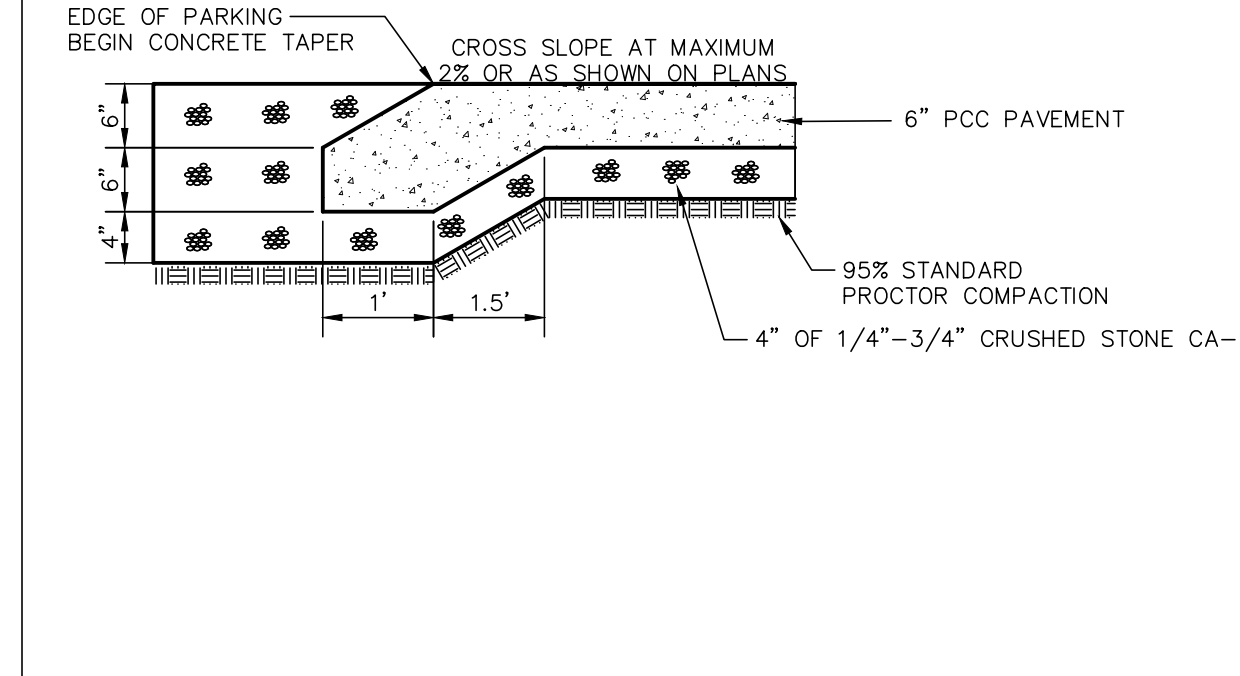
EROSION CONTROL NOTES

- AT A MINIMUM, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S URBAN MANUAL.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OF MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.
- ALL STORM WATER STRUCTURES WITH OPEN LIDS SHALL BE PROTECTED WITH INLET FILTER BASKETS. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED AS NEEDED, AND BASKETS SHALL BE REPAIRED OR REPLACED AS NEEDED.
- AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED, AND THE DRAINAGE STRUCTURES SHALL BE CLEANED.
- THE CONTRACTOR SHALL KEEP A WATER SOURCE AT THEIR DISPOSAL FOR THE PURPOSE OF WATERING DOWN SOIL ON SITE AND ADJACENT ROADWAYS WHICH OTHERWISE MAY BECOME AIRBORNE.
- THE CONTRACTOR SHALL STABILIZE ALL IDLE, DISTURBED AREAS WITHIN SEVEN DAYS OF CESSATION OF THE CONSTRUCTION ACTIVITIES IN THAT AREA.
- THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.
- ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
- ALL BYPASS CHANNELS, MUST BE CONSTRUCTED SO THAT CHANNEL FLOWS WILL NOT CAUSE EROSION OF EXCAVATED MATERIAL. IN EACH CASE A SEDIMENTATION BASIN MUST BE CONSTRUCTED SO AS TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO THE DOWNSTREAM OUTLET OF THE PROJECT AREA.
- PUMPS MAY BE USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE THE PROJECT LIMIT. ALL PUMPED WATER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SUPPLEMENTAL SEDIMENT CONTROL MEASURES.
- CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.
- PROPERLY MANAGE ALL MATERIAL STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND MAINTENANCE AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.
- WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.



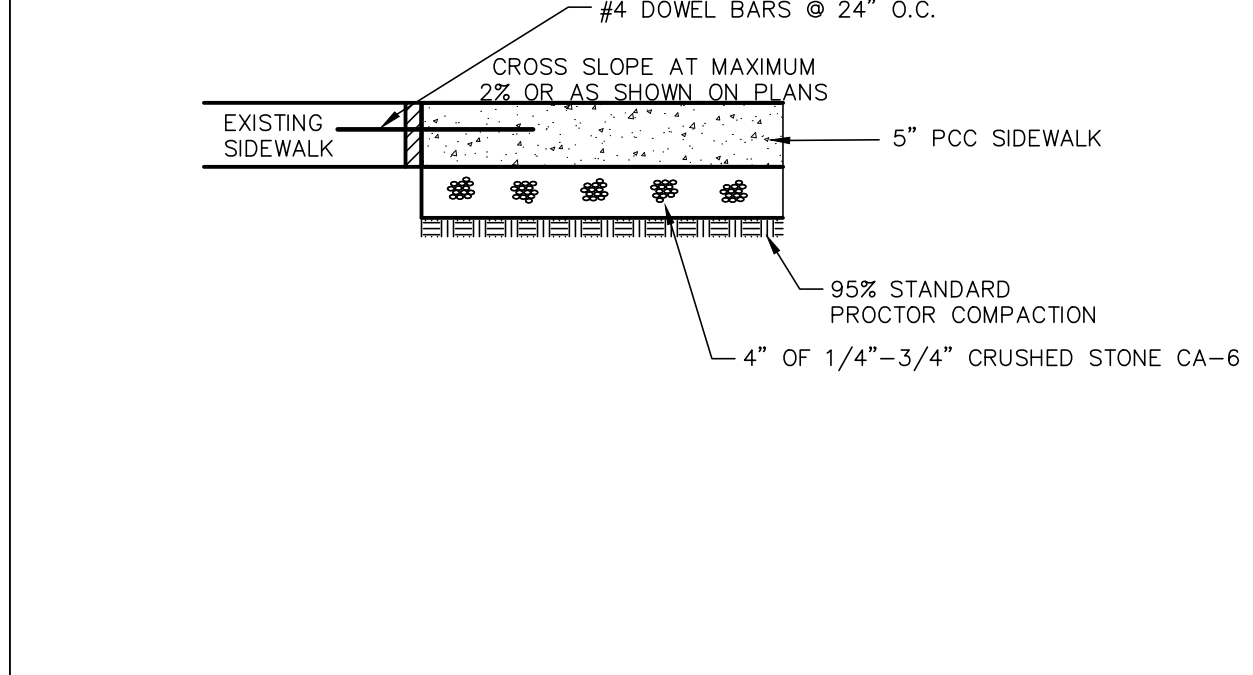
GEWALT HAMILTON ASSOCIATES, INC. ACCESSIBLE PARKING DETAIL 11.27.2018

- NOTES:
- SET 1/2" EXPANSION JOINTS AT POINTS ABUTTING SIDEWALK OR PAVEMENT AND AT 60' MAX. INTERVALS.
 - CONTROL JOINTS SHALL BE 1/8" TO 1/4" SIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVE A 1/4" RADIUS.
 - PAVEMENT WIDTH AS SHOWN ON PLANS.



GEWALT HAMILTON ASSOCIATES, INC. PCC PAVEMENT DETAIL 10.12.2018

- NOTES:
- SET 1/2" EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAVEMENT AND AT 60' MAX. INTERVALS.
 - CONTROL JOINTS SHALL BE 1/8" TO 1/4" SIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVE A 1/4" RADIUS.
 - SIDEWALK WIDTH AS SHOWN ON PLANS.
 - SIDEWALK JOINTS SHALL MATCH CURB CONTROL AND CONSTRUCTION JOINTS.



GEWALT HAMILTON ASSOCIATES, INC. PCC SIDEWALK DETAIL 10.12.2018

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GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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GENERAL NOTES & DETAILS
PALATINE PARK DISTRICT
2020 PARK IMPROVEMENTS
PALATINE STABLES

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.214-DTI.dwg	SHEET NUMBER:
DRAWN BY: JEH	GHA PROJECT #
DATE: 08-28-20	5241.214
CHECKED BY: DED	SCALE:
DATE: 08-28-20	N/A
	OF 5 SHEETS







Palatine Stables

Engineering

\$ 8,300.00

Direct Costs

Mobilization	\$	1,208.44	100%	\$ 1,208.44
Brick Paver Removal	\$	5,333.98	100%	\$ 5,333.98
Miscellaneous Removals, Sign, Post, and Bollards	\$	1,166.10	100%	\$ 1,166.10
Gravel Removal, 12"	\$	2,422.80	100%	\$ 2,422.80
Aggregate Base Course, CA-6, 4"	\$	4,574.52	100%	\$ 4,574.52
PCC Pavement, 6" (ADA Stall)	\$	6,545.00	100%	\$ 6,545.00
PCC Sidewalk, 5"	\$	13,232.00	100%	\$ 13,232.00
Paint Pavement Markings & Signs	\$	3,162.50	100%	\$ 3,162.50
Restoration	\$	4,938.76	100%	\$ 4,938.76
Unsuitable Removal and Replacement	\$	1,915.90	100%	\$ 1,915.90

Project Total

\$ 52,800.00

Project Location **Hummingbird Park** 10/27/2020
by **Jim Holder** in **Member District ADA Project Request** id. 18026014
ADAProjects@palatineparks.org

Original submission 10/27/2020

Name **Jim Holder**

Job Title **Superintendent of Parks & Planning**

E-mail Address **jholder@palatineparks.org**

Phone Number **847-705-5131**

Park District **Palatine**

Project Status **Alteration
Maintenance**

Project Type **Routes and Surfaces**

Routes and Surfaces- select a Project Category below:
**Accessible Routes- Means of Egress
Parking Spots
Walking Surfaces**

Benefits of the Project **Allows individuals with mobility issues to access the basketball court and playground from the parking area.**

Items that will become ADA Compliant **Access to the basketball court and playground.**

The project is designed or constructed, or applies human resources, to comply with:
**The 2010 Standards for Accessible Design
Agency's ADA Transition Plan**

Upload Project Related Files, Photos, Videos or Audio

[Hummingbird_Calculations.pdf](#)

[hummingbirdfinaldocs.pdf](#)

[Extracted_pages_from_5241.213_Hummingbird_Park_7-15-19_R1.pdf](#)

[5241.213_Hummingbird_Park_2019-03-20_DRAFT.pdf](#)

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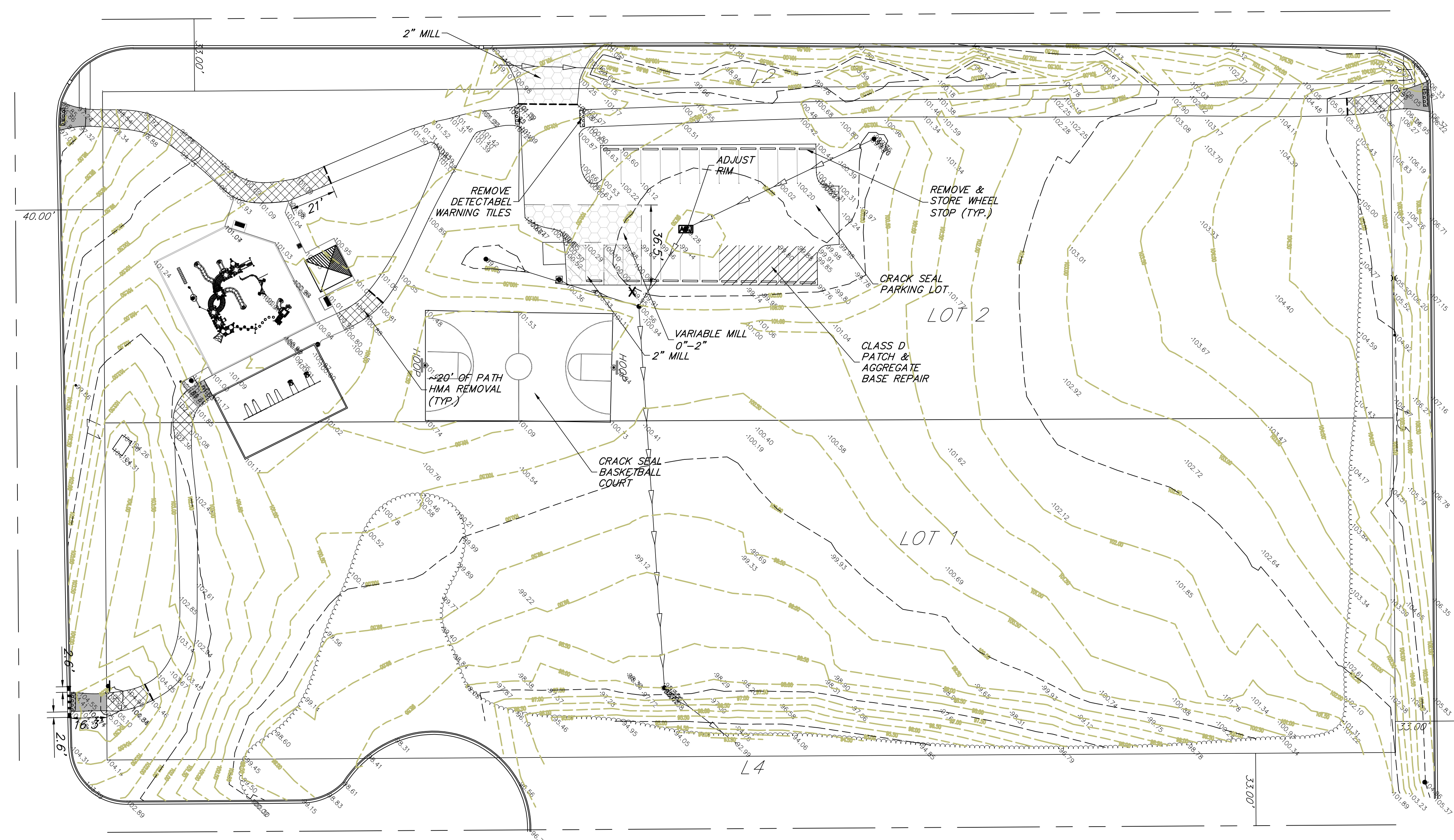
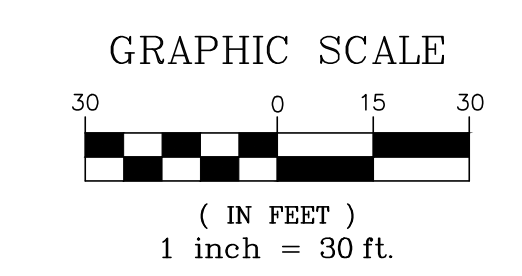
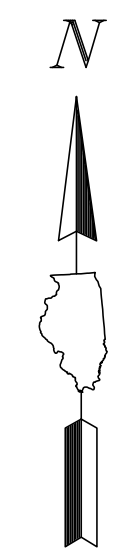
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Budget Table for ADA Related Expenses





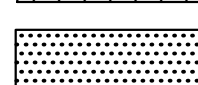




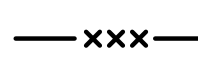
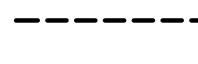
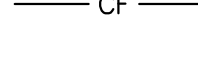
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ADA Dollars Requested	29309.49
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Notes related to requested amount	Cost was determined by actual direct costs and percentage of the total project cost. Direct costs were removed from total cost to determine the percentage cost.
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REMOVAL LEGEND

-  HMA SURFACE MILL
-  HMA REMOVAL FULL DEPTH
-  PAVEMENT REMOVAL FULL DEPTH
-  CLASS D PATCH
-  SIDEWALK REMOVAL
-  STRUCTURE TO BE ADJUSTED
-  SIGN REMOVAL
-  TREE TRUNK PROTECTION FENCE
-  COMBINATION CURB AND GUTTER REMOVAL
-  TEMPORARY FENCE
-  PAVEMENT SAWCUT
-  CONSTRUCTION FENCE

EXISTING CONDITION AND DEMOLITION NOTES

1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per IEPA NPDES guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. XXX Road is under the jurisdiction of XXX. All work within the right of way will require a permit.
5. The contractor shall be responsible for fencing the active work zone from the public and protecting the public from any construction related hazards. At a minimum, all excavation, demolition areas and other areas potentially hazardous to pedestrians and vehicles must be protected.
6. At all times, main drive, loading docks, and dumpster areas shall remain open and unobstructed. Temporary shut down of one traffic lane at a time will be permitted for short term periods and shall be coordinated with appointed Property Owner construction staff. Short term closings shall be completed within the work day and restored to unobstructed access by the close of the work day.
7. Temporary stone or asphalt pathways shall be provided as needed throughout the course of construction to facilitate safe pedestrian and vehicular movement. The longitudinal slope of such paths shall not exceed 5% and cross slopes shall not exceed 2%. Provide 6" CA-6 base and 2" surface asphalt.
8. The contractor is responsible for the demolition and disposal of all existing improvements onsite necessary to complete the job. These improvements include, but are not limited to, existing pavements, curbs, sidewalks, utilities, lighting, light bases, manholes, fences, foundations, and other structures within the work area. Excavate and grade to proposed pavement and building subbase grades. (Refer to foundation plans for proposed building subbase grades.) These items shall be completely removed and legally disposed of offsite.
9. Temporarily remove, store and protect sign and posts within affected work zone for reinstallation. Coordinate onsite storage with Property Owner.
10. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.

GHA **GEWALT HAMILTON ASSOCIATES, INC.**
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

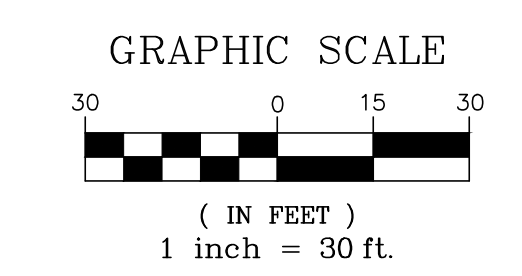
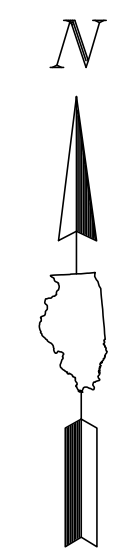
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EXISTING CONDITIONS/DEMOLITION PLAN
HUMMINGBIRD PARK SITE IMPROVEMENTS
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.213-PR1.dwg		SHEET NUMBER:
DRAWN BY:	GHA PROJECT #	
DATE:		
CHECKED BY:	SCALE:	OF SHEETS
DATE:		




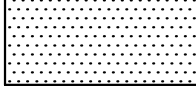
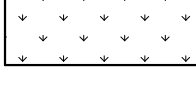
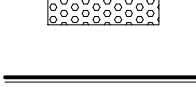
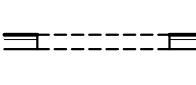
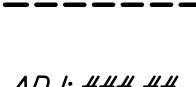

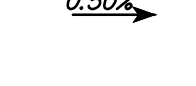

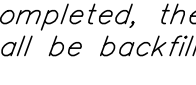
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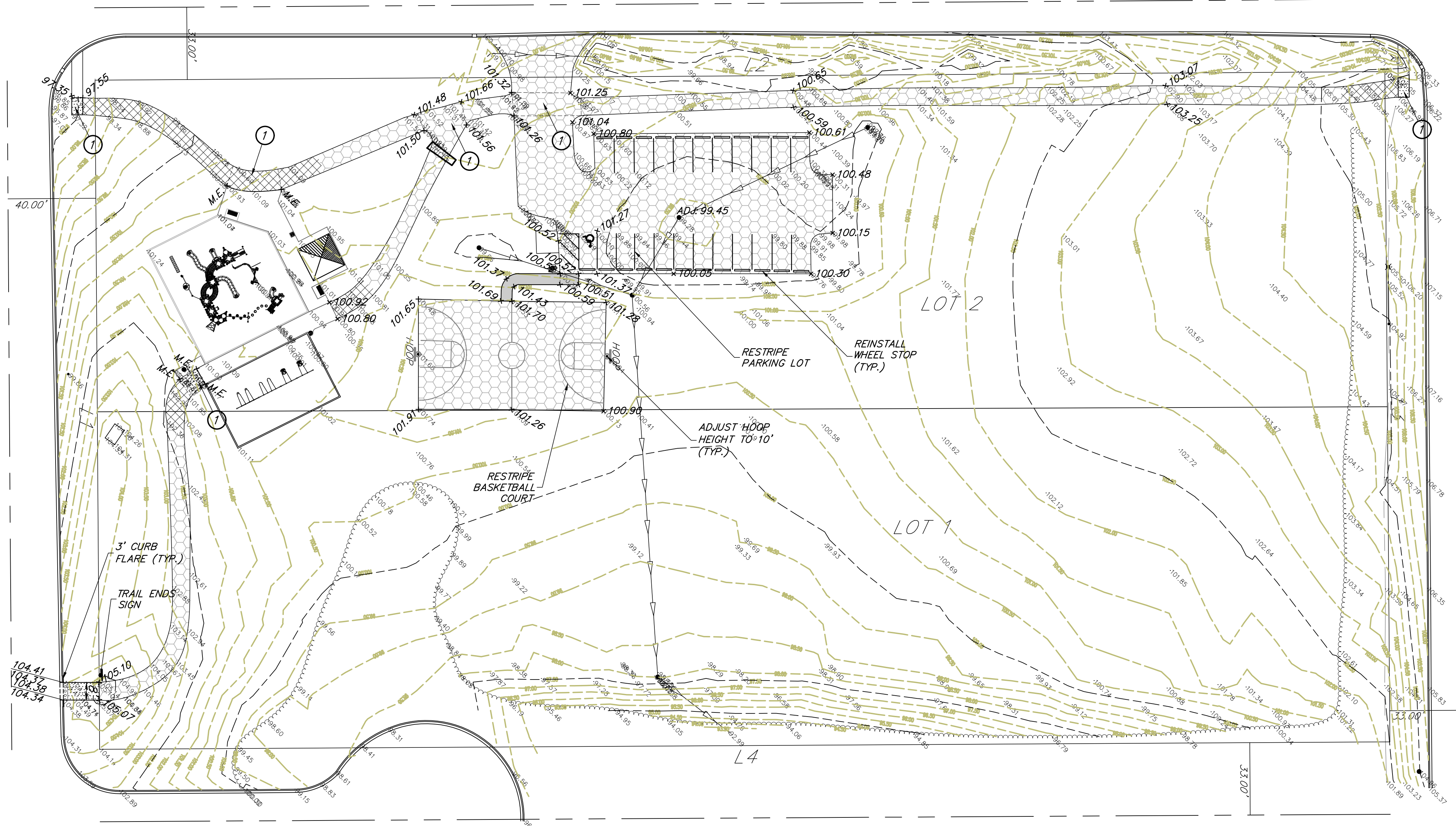


KEYED NOTES

- ① SLOPES IN THIS AREA TO BE UNDER 2% IN ANY DIRECTION FOR ADA COMPLIANCE.

PROPOSED LEGEND

-  FULL DEPTH HMA PAVEMENT
-  HMA SURFACE COURSE MIX D, N50, 2"
-  HMA TRAIL PAVEMENT
-  PCC SIDEWALK
-  SOD RESTORATION
-  DETECTABLE WARNINGS
-  B6.12 CURB & GUTTER (REGULAR)
-  B6.12 CURB & GUTTER (DEPRESSED)
-  PAVEMENT SAWCUT
-  STRUCTURE ADJUSTMENT
-  SUMMITS
-  SLOPES



SITE PLAN NOTES

- The contractor shall verify the exact location and elevation of existing utilities prior to initiating work. Any discrepancies found between the information noted on the plans and actual field conditions, or any conflicts with proposed improvements shall be reported to the engineer immediately. The contractor shall not proceed any further until given written clarification on how to proceed.
- All pavement dimensions are to edge of pavement, unless otherwise noted. E=edge of pavement, B=back of curb, F=face of curb. Radii dimensions are to back of curb.
- Install all curb and sidewalk as shown. Note some curbs require reverse pitch gutter. Dowel new sidewalk and curb to existing and proposed curbs per general notes. When constructing a carriage walk, the proposed sidewalk contraction and expansion joints shall align with existing curb joints.
- Refer to General Notes for grading, compaction and proof roll requirements.
- Handicap accessible parking spaces shall be constructed between 1.0% and 1.90% maximum slopes in any one direction. Illinois accessibility code permits a maximum constructed slope of 2.00%.
- Provide 1.90% cross slope and 4.5% maximum longitudinal slope on all sidewalks and pedestrian path ways unless otherwise indicated. Illinois accessibility code requires a maximum constructed cross slope of 2.00% and longitudinal slope of 5.00%.
- Install bituminous pavement as shown. Refer to detail sheet for specific pavement sections and general note sheet for construction, testing and compaction requirements.
- Crushed concrete meeting IDOT certifications for the design plan gradations for non-porous pavement and sidewalk stone base, structural fill, and trench backfill will be permitted.
- Crushed concrete may not be used for underdrain trench or porous fill conditions.
- The contractor shall import or export soil as necessary to construct the site to specified plan grades. Such work is considered incidental to the contract and no additional compensation shall be allowed for such work. Minor adjustments to grades can be accommodated with Project Engineer approval.
- All parking lot stall markings shall be 4" Yellow paint and all other parking lot pavement markings shall be paint, color as noted, in accordance with Section 780 of the IDOT Standard Specifications. (Two single applications, 16 mils each required). Site pavement marking shall be coordinated with Site engineer. Contractor shall notify site engineer 48 hrs prior to installing pavement marking.
- For handicapped stall markings, refer to Handicapped Parking Stall and Sign Dimensioning Detail.
- Install new signs and handicapped parking signs using 2" galvanized square tube post and telescoping post sleeve per IDOT standard.
- All structures shall be adjusted to meet finished turf and pavement grades.
- Contractor shall ensure positive drainage to all inlets and catchbasins. Areas of surface ponding shall be corrected by the contractor at no additional expense to the Owner.
- All lawn areas disturbed as a result of construction shall be restored to preconstruction lawn condition following restoration requirements.
- For final restoration, the contractor shall be responsible for restoring all disturbed turf areas and proposed turf areas as follows:
 - Prior to placement of topsoil restoration area subgrade material shall be rototilled and re-compacted to a maximum of 80% standard proctor to a depth of 6".
 - Spread a minimum of 6" of existing site salvaged screened topsoil or new pulverized topsoil on all disturbed areas. Compact to 80% standard proctor.
 - Topsoil must be free of litter, brush, rocks and earth clods of greater than 1 inch in any dimension. Contain between 1%-10% organic matter, 12%-50% clay, and less than 55% sand content. pH shall be between 6.0 and 8.0.
 - Seed restoration areas as follows:
 - IDOT Class 1A seed. (Lawn mixture)
 - Fertilizer shall be applied following IDOT requirements.
 - Erosion control blanket shall be North American Green S75 or approved equal installed following manufacturer guidelines.
 - Contractor shall be responsible for watering the restored area per IDOT specifications for a duration of 30 days prior to the Owner's final review and acceptance. If restoration has not shown a "catch" or uniform stand, the contractor shall repeat reseeding or resodding until a uniform stand is achieved.
- Once restoration has been completed, the contractor shall remove erosion control devices. Silt fence trenches shall be backfilled and restored in kind. Storm structures shall be cleaned of debris.
- Contractor shall provide the following as-constructed documents at the conclusion of the project:
 - Lawn or open space areas
 - Spot elevations at a maximum 50 foot grid.
 - Spot elevation top and bottom of berms or swales
 - Spot elevations and ridge / high and low points.
 - Parking lot and hard surfaces.
 - Top of curb and flowline elevations at similar locations to proposed grading.
 - Spot elevations at summit / high and low points.
 - ADA parking stalls, sidewalk ramps, and ADA Routes
 - Provide 6 spot elevations within the parking stall 3 along the front and rear of the stall at 8 foot spacing along the stall pavement markings.
 - Provide 4 spot grades at landings and any tapers or ramps.
 - Provide spot elevations along route at maximum 10 foot spacing on both sides of the path to confirm cross and longitudinal slopes requirements have been met.

GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

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SITE PLAN
HUMMINGBIRD PARK SITE IMPROVEMENTS
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

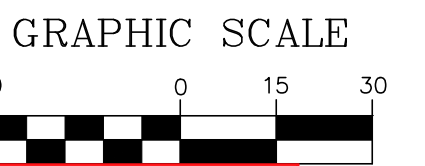
NO.	BY	DATE	REVISION

FILE: 5241.213-PR1.dwg	SHEET NUMBER:
DRAWN BY: EJS	GHA PROJECT #
DATE: 02/27/19	5241.213
CHECKED BY: DED	SCALE:
DATE: 02/27/19	1"=30'
	OF X SHEETS

X

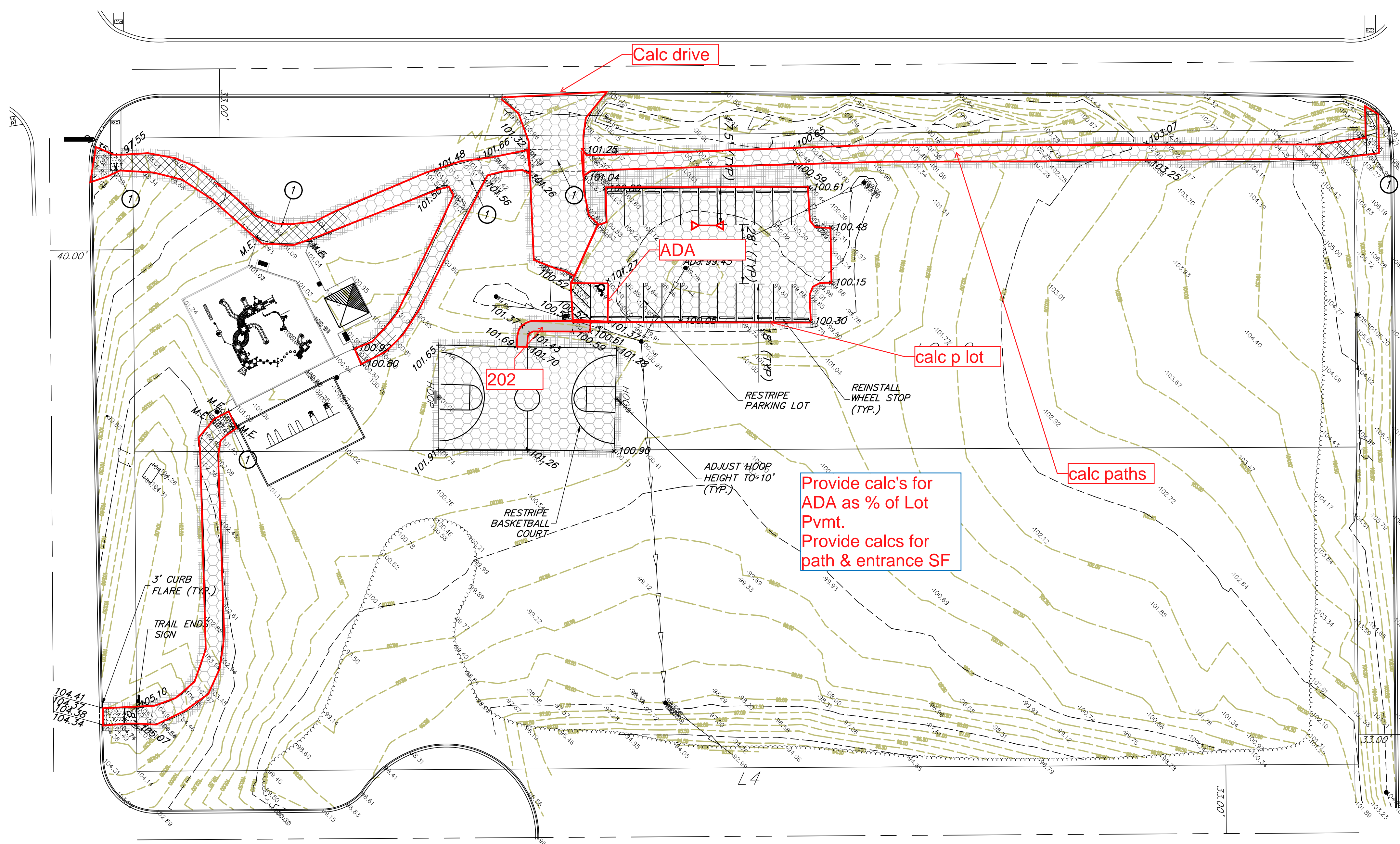
KEYED NOTES

- ① SLOPES IN THIS AREA TO BE UNDER 2% IN ANY DIRECTION FOR ADA COMPLIANCE.



Parking Lot Area - 7,207 SF
Drive Area - 2,336 SF
Path Area - 7,503 SF
ADA Area - 316 SF
ADA % of Parking - 4.38%
BB Court ADA Path - 202 SF
Path ADA % of Parking - 2.80%
Total ADA % of Parking - 7.18%

- FULL DEPTH HMA PAVEMENT
- PAVEMENT OVERLAY
HMA SURFACE COURSE MIX D, N50, 2"
- HMA TRAIL PAVEMENT
- PCC SIDEWALK
- TOPSOIL FURNISH AND PLACE
SEEDING, CLASS 1
BLANKET
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- PAVEMENT SAWCUT
- ADJ:###
- SUMMIT
- 0.50% SLOPES



Provide calc's for ADA as % of Lot Pvmt.
Provide calcs for path & entrance SF

SITE PLAN NOTES

1. The contractor shall verify the exact location and elevation of existing utilities prior to initiating work. Any discrepancies found between the information noted on the plans and actual field conditions, or any conflicts with proposed improvements shall be reported to the engineer immediately. The contractor shall not proceed any further until given written clarification on how to proceed.
2. All pavement dimensions are to edge of pavement, unless otherwise noted. E=edge of pavement, B=back of curb, F=face of curb. Radii dimensions are to back of curb.
3. Install all curb and sidewalk as shown. Note some curbs require reverse pitch gutter. Dowel new sidewalk and curb to existing and proposed curbs per general notes. When constructing a carriage walk, the proposed sidewalk contraction and expansion joints shall align with existing curb joints.
4. Refer to General Notes for grading, compaction and proof roll requirements.
5. Handicap accessible parking spaces shall be constructed between 1.0% and 1.90% maximum slopes in any one direction. Illinois accessibility code permits a maximum constructed slope of 2.00%.
6. Provide 1.90% cross slope and 4.5% maximum longitudinal slope on all sidewalks and pedestrian path ways unless otherwise indicated. Illinois accessibility code requires a maximum constructed cross slope of 2.00% and longitudinal slope of 5.00%.
7. Contractor to brush and clean existing pavement prior to application of tack coat.

8. Install bituminous pavement as shown. Refer to detail sheet for specific pavement sections and general note sheet for construction, testing and compaction requirements.
9. Crushed concrete meeting IDOT certifications for the design plan gradations for non-porous pavement and sidewalk stone base, structural fill, and trench backfill will be permitted.
10. Crushed concrete may not be used for underdrain trench or porous fill conditions.
11. The contractor shall import or export soil as necessary to construct the site to specified plan grades. Such work is considered incidental to the contract and no additional compensation shall be allowed for such work. Minor adjustments to grades can be accommodated with Project Engineer approval.
12. All parking lot stall markings shall be 4" Yellow paint and all other parking lot pavement markings shall be paint, color as noted, in accordance with Section 780 of the IDOT Standard Specifications. (Two single applications, 16 mils each required). Site pavement marking shall be coordinated with Site engineer. Contractor shall notify site engineer 48 hrs prior to installing pavement marking.
13. For handicapped stall markings, refer to Handicapped Parking Stall and Sign Dimensioning Detail.
14. Install new signs and handicapped parking signs using 2" galvanized square tube post and telescoping post sleeve per IDOT standard.

15. All structures shall be adjusted to meet finished turf and pavement grades.
16. Contractor shall ensure positive drainage to all inlets and catchbasins. Areas of surface ponding shall be corrected by the contractor at no additional expense to the Owner.
17. All lawn areas disturbed as a result of construction shall be restored to preconstruction lawn condition following restoration requirements.
18. For final restoration, the contractor shall be responsible for restoring all disturbed turf areas and proposed turf areas as follows:
 - a. Prior to placement of topsoil restoration area subgrade material shall be rototilled and re-compacted to a maximum of 80% standard proctor to a depth of 6".
 - b. Spread a minimum of 6" of existing site salvaged screened topsoil or new pulverized topsoil on all disturbed areas. Compact to 80% standard proctor.
 - c. Topsoil must be free of litter, brush, rocks and earth clods of greater than 1 inch in any dimension. Contain between 1%-10% organic matter, 12%-50% clay, and less than 55% sand content. pH shall be between 6.0 and 8.0.
 - d. Seed restoration areas as follows:
 - DOT Class 1A seed. (Lawn mixture)
 - Fertilizer shall be applied following IDOT requirements.
 - Erosion control blanket shall be North American Green S75 or approved equal installed following manufacturer guidelines.
 - e. Contractor shall be responsible for watering the restored area per IDOT

- specifications for a duration of 30 days prior to the Owner's final review and acceptance. If restoration has not shown a catch or uniform stand, the contractor shall repeat reseeded or resodding until a uniform stand is achieved.
18. Once restoration has been completed, the contractor shall remove erosion control devices. Silt fence trenches shall be backfilled and restored in kind. Storm structures shall be cleaned of debris.
 19. Contractor shall provide the following as-constructed documents at the conclusion of the project:
 - a. Parking lot and hard surfaces.
 - Top of curb and flowline elevations at similar locations to proposed grading.
 - Spot elevations at summit / high and low points.
 - b. ADA parking stalls, sidewalk ramps, and ADA Routes
 - Provide 6 spot elevations within the parking stall 3 along the front and rear of the stall at 8 foot spacing along the stall pavement markings.
 - Provide 4 spot grades per square at landings and any tapers or ramps.
 - Provide spot elevations along route at maximum 10 foot spacing on both sides of the path to confirm cross and longitudinal slopes requirements have been met.

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION





Hummingbird Calculations

Direct Costs

New concrete walks	\$	2,700.00	
Detectable warnings	\$	600.00	
Pavement removal	\$	850.00	
Concrete curbing grate adjustments	\$	500.00	
Concrete curbing removal	\$	458.50	
Concrete curb and gutter	\$	600.00	
Direct			\$ 5,708.50

Percentage of paving

Total Cost	\$ 106,128.58
Adjust total without direct costs	<u>\$ 100,420.08</u>

	SF		ADA SF	
Pathways	7503.00	62.50%	4689.38	
Parking lot	7207.00	4.38%	315.67	
Drive	2336.00	0.00%		
Basketball	4250.00	0.00%		
Total	21,296.00		5,005.04	
			23.50%	\$ 100,420.08
				\$ 23,600.99
				<u><u>\$ 29,309.49</u></u>

Asphalt paths are 8 feet wide. ADA accessed to 5 feet wide 62.5 percent of path cost.

Project Type (From Above)	Project Category (From Above)	Media File #/Name	Project Category Cost	ADA Portion of Project Category Cost	% ADA Dollars Requested
Routes & Surfaces	Accessible Route & Parking	1-20	106128.58	29309.49	27.62%
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Total Project Cost		106128.58			
Total ADA Portion of Project Cost		29309.49			
Total % of ADA Dollars Requested					27.62%

Project Location **Dutch Schultz Park** 10/27/2020
by **Jim Holder** in **Member District ADA Project Request** id. 18026260
ADAProjects@palatineparks.org

Original submission 10/27/2020

Name	Jim Holder
Job Title	Superintendent of Parks & Planning
E-mail Address	jholder@palatineparks.org
Phone Number	847-705-5131
Park District	Palatine
Project Status	New
Project Type	Routes and Surfaces
Routes and Surfaces- select a Project Category below:	Accessible Routes- Means of Egress
Benefits of the Project	Allows individuals with mobility issues to access the basketball court from the parking lot.
Items that will become ADA Compliant	Access to the basketball court.
The project is designed or constructed, or applies human resources, to comply with:	The 2010 Standards for Accessible Design The Illinois Accessibility Code Agency's ADA Transition Plan

Upload Project Related Files, Photos, Videos or Audio

[Dutch_Schultz_Calculations.pdf](#)

[dutchschultzfinaldocs.pdf](#)

[5241.212_Schultz_Park_Plan_set.pdf](#)

[IMG_20201008_113325425_HDR.jpg](#)

[IMG_20201008_113342194_HDR.jpg](#)

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[IMG_20201008_113840775.jpg](#)

Budget Table for ADA Related Expenses

[d7186a56-1a19-4311-a9d8-4180f1cf5827.xlsx](#)

ADA Dollars Requested	9300
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Notes related to requested amount	Cost was determined by actual direct costs.
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PROPOSED SITE IMPROVEMENTS

ROBERT "DUTCH" SCHULTZ RECREATION AREA

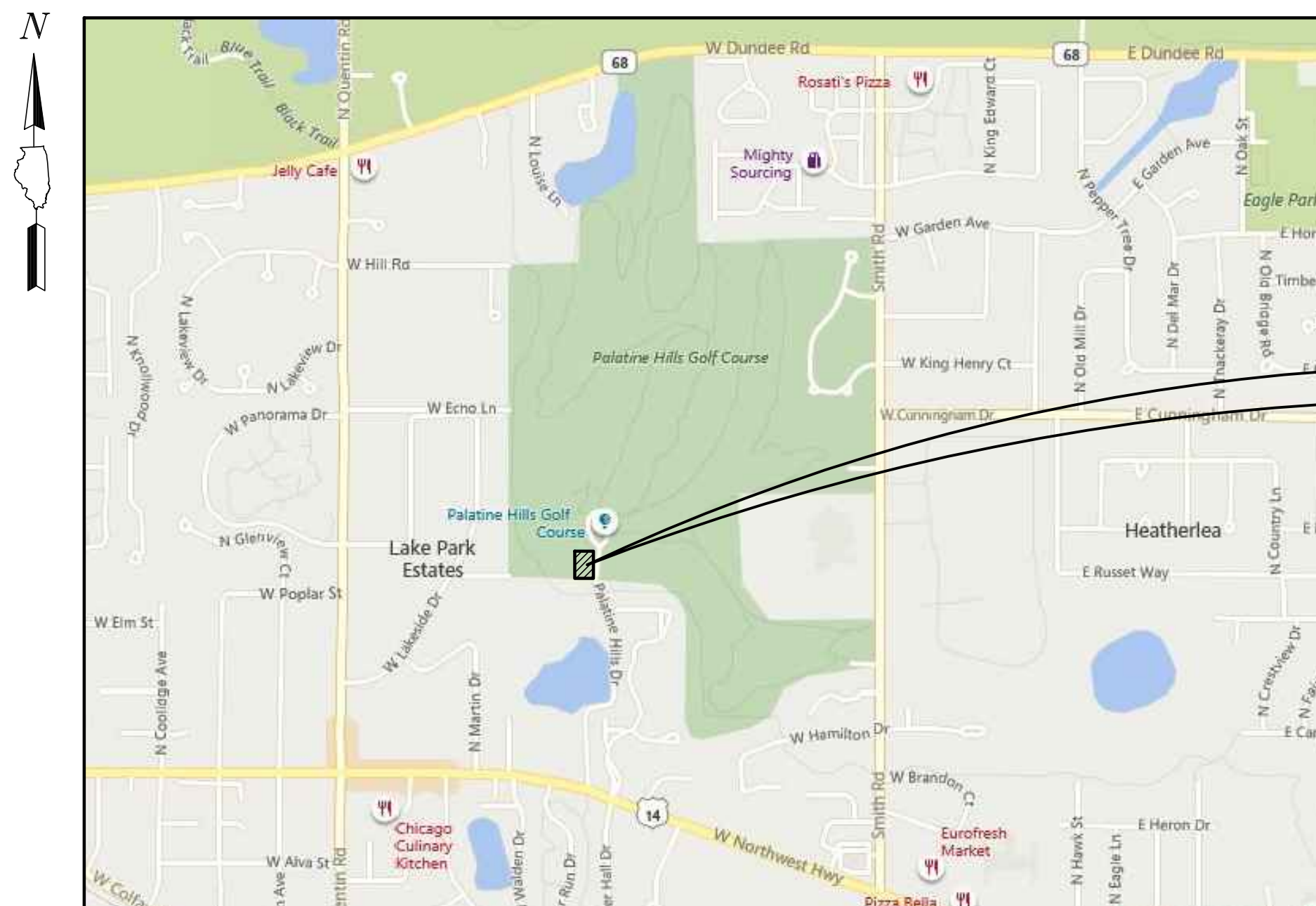
PALATINE PARK DISTRICT PALATINE, ILLINOIS

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		
COMBINE SEWER LINE		
CONTOUR		
CULVERT		
DITCH/SWALE		
ELECTRIC LINE		
ELECTRIC MANHOLE		
FENCE		
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE		
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES		
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION		
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE		
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE--CONIFEROUS (SIZE/TAG#)		
TREE--DECIDUOUS (SIZE/TAG#)		
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE		

SHEET INDEX

1. TITLE SHEET
2. SITE PLAN
3. GENERAL NOTES AND DETAILS



PROJECT LOCATION

ROBERT "DUTCH" SCHULTZ RECREATION AREA
PALATINE HILLS DR, PALATINE, ILLINOIS

PLANS PREPARED FOR:

PALATINE PARK DISTRICT
250 EAST WOOD STREET
PALATINE, ILLINOIS 60067
TELEPHONE: 847-991-0333

TOPOGRAPHIC SURVEY BY:

GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

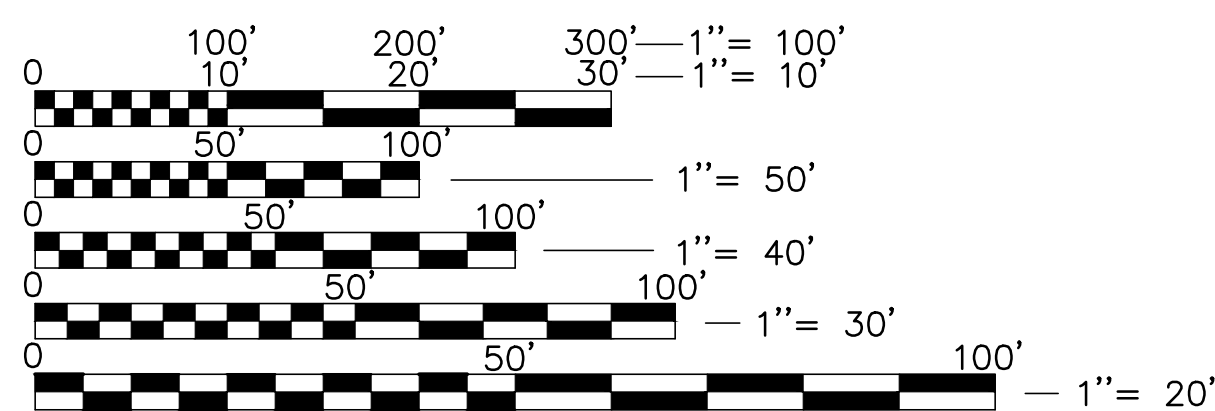
LOCATION MAP

(Not to Scale)

BENCHMARK:
ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING
TRIMBLE VRS@NOW™ (NO PUBLISHED MONUMENT VERIFIED)
DATUM: NAVD88

CONTROL POINTS:

Point #	Northing	Easting	Elevation	Description
1	1989300.66	1059488.08	758.81	CP1-XTC
2	1989708.73	1059411.82	753.73	CP2-XTC
3	1989544.40	1059393.48	760.31	CP3-XLPBASE TBM



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

NOTE: CONSTRUCTION MEANS, METHODS AND JOB
SITE SAFETY IS THE SOLE AND EXCLUSIVE
RESPONSIBILITY OF THE CONTRACTOR

J.U.L.I.E

JOINT
UTILITY
LOCATION
INFORMATION FOR
EXCAVATION
CALL 811



Know what's below.
Call before you dig.

COORDINATING/PERMITTING AGENCIES:

VILLAGE OF PALATINE
200 EAST WOOD STREET
PALATINE, ILLINOIS 60067
TELEPHONE: 847-202-6963

SIGNED: _____ P.E.

NAME OF PROJECT MANAGER

DATE: _____

ILLINOIS LICENSE NO.: ###-####

EXPIRATION DATE: NOVEMBER 30, 2019

NOT FOR CONSTRUCTION

GHA GEWALT HAMILTON
ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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TITLE SHEET
ROBERT "DUTCH" SCHULTZ RECREATION AREA
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

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DRAWN BY: PJS
DATE: 3-27-19
GHA PROJECT #
5241.212

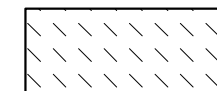


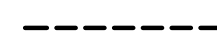
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SCALE:
N.T.S.

SHEET NUMBER:

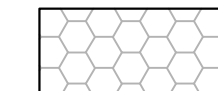

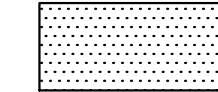
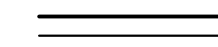
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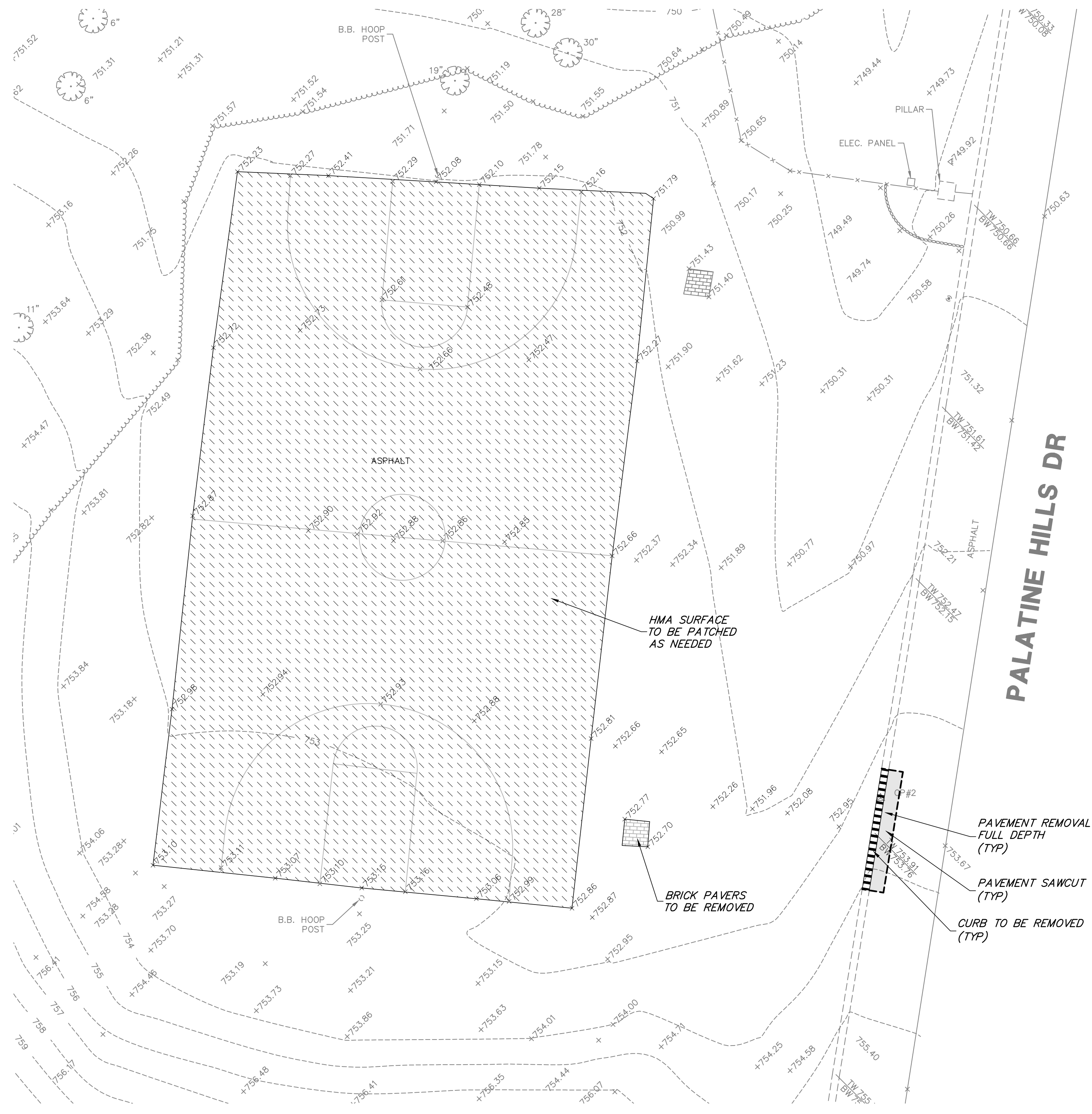
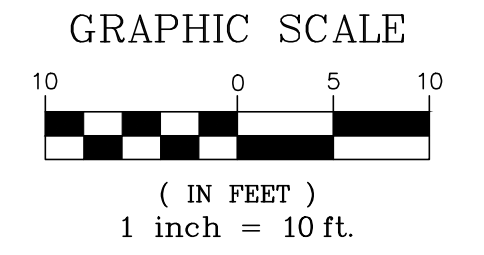
OF 3 SHEETS

REMOVAL LEGEND

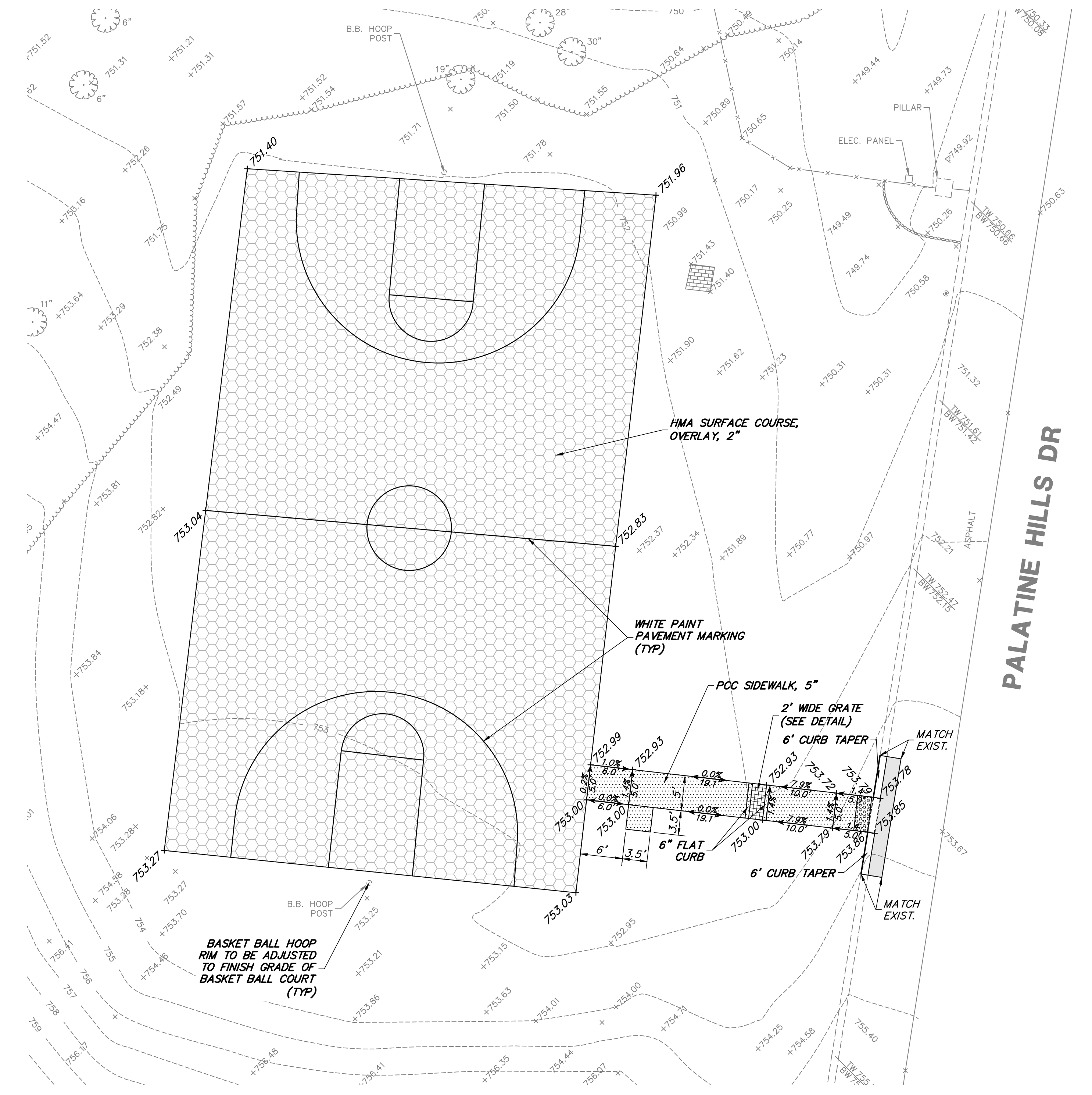
-  HMA PATCHING AS NEEDED
-  PAVEMENT REMOVAL FULL DEPTH
-  CURB REMOVAL
-  PAVEMENT SAWCUT

PROPOSED LEGEND

-  HMA SURFACE COURSE, OVERLAY, 2"
-  PCC BASE COURSE WITH HMA SURFACE COURSE
-  PCC SIDEWALK, 5"
-  PROPOSED CURB



EXISTING CONDITIONS / DEMOLITION PLAN



PROPOSED IMPROVEMENTS

GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

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SITE PLAN
ROBERT 'DUTCH' SCHULTZ RECREATION AREA
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.212 Schultz Park_PRI.dwg	SHEET NUMBER:
DRAWN BY: PJS	GHA PROJECT #
DATE: 3-27-19	5241.212
CHECKED BY: TAR	SCALE: 1"=10'
DATE: 3-27-19	OF 3 SHEETS

2

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERE TO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

UTILITY NOTES

- UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH (225 ILCS 320/) THE ILLINOIS PLUMBING LICENSING LAW FOR THE INSTALLATION PLUMBING AND PLUMBING SYSTEMS AS DEFINED THEREIN.
- MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.
- SANITARY SERVICE CONNECTIONS TO NEW SEWERS SHALL BE MADE WITH WYE BRANCHES. WYE BRANCHES SHALL BE FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TEE BRANCHES ARE NOT ALLOWED.
- ALL CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
- STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.
- ALL WATER MAIN SHALL HAVE MECHANICAL RESTRAINED TYPE JOINTS AT ALL CONNECTIONS AND FITTINGS. IN ADDITION, ALL HARDWARE SHALL BE STAINLESS STEEL.
- THRUST BLOCKING SHALL BE PROVIDED ON WATER MAIN AT ALL BENDS, TEES, ELBOWS, ETC. INDIVIDUAL INSPECTION FOR ALL THRUST BLOCKING IS REQUIRED. THRUST BLOCKING SHALL BE POURED IN PLACE CONCRETE. PRECAST BLOCKS MAY BE USED AS APPROVED BY THE ENGINEER IN THE FIELD.
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER. ALL DOWNSPOUTS, SIDE YARD DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. FOOTING DRAINS SHALL FIRST DRAIN TO A SUMP PIT.
- BUILDING STORM SEWER SERVICE PIPE SHALL NOT BE LESS THAN THE DIAMETER OF THE PLUMBING PIPE FROM THE BUILDING, BUT NOT LESS THAN 6 INCHES. THE PIPE SHALL HAVE A MINIMUM SLOPE OF 1/8-INCH PER FOOT, BUT NOT MORE THAN 1/2-INCH PER FOOT. CHANGES OF DIRECTION OF SERVICE PIPE SHALL BE MADE WITH COMBINATIONS OF 22-1/2 DEGREE BENDS WHEREVER PRACTICABLE, WITH NOT LESS THAN 2 FEET OF STRAIGHT PIPE BETWEEN SUCH BENDS. RIGHT ANGLE (90 DEGREE) BENDS WILL NOT BE ALLOWED. WHEN A SERVICE LINE EXCEEDS 100 FEET IN LENGTH, A CLEANOUT SHALL BE PROVIDED AT A LOCATION DESIGNATED BY THE ENGINEER. THE CLEANOUT SHALL BE PROPERLY SEALED, WITH THE TOP OF THE PLUGGED RISER FLUSH WITH FINISHED GRADE.

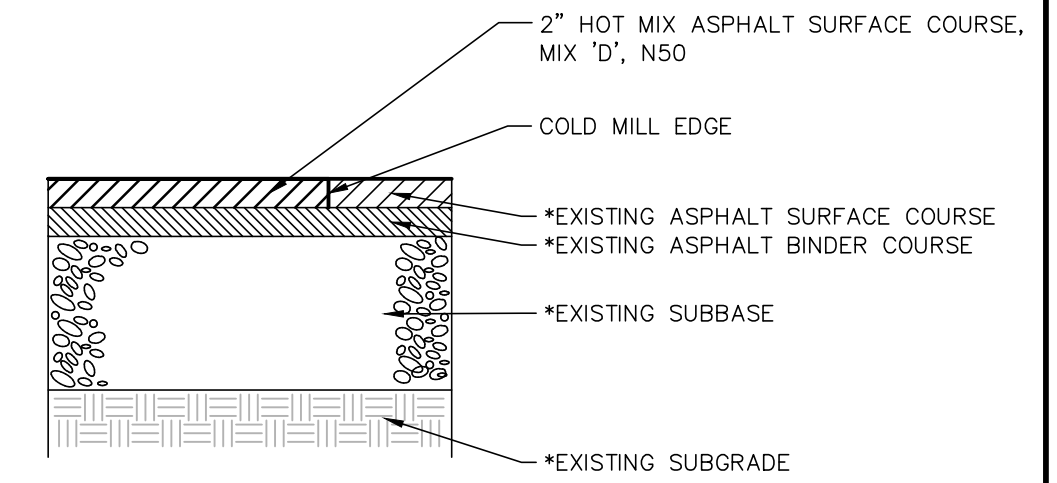
PROJECT SPECIFIC NOTES

- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPLITY AS WELL AS THE STANDARD SPECIFICATIONS.
- ALL PUBLIC WATER MAINS AND SANITARY SEWER MAINS MUST BE ACCEPTED BY THE VILLAGE OF PALATINE FOR HAMILTON PARK AND PALATINE TRAIL PROJECTS AND VILLAGE OF HOFFMAN ESTATES FOR THE JUNIPER PARK PROJECT.
- THE SEWER AND WATER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE VILLAGE OF PALATINE/VILLAGE OF HOFFMAN ESTATES BEFORE WORK IS STARTED.
- CONTRACTOR SHALL NOTIFY THE VILLAGE OF PALATINE (847-202-6963)/VILLAGE OF HOFFMAN ESTATES (847-882-9100) AND THE PROJECT ENGINEER (847-478-9700) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED
- ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). TOPSOIL AND SUBGRADE 6 BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698).
- PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.
- CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
- ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONCRETE, 4" SLUMP, 6.1 BAG MIX AND AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%). CONCRETE SHALL BE A MINIMUM COMPRESSIVE STRENGTH (4000PSI) AT TWENTY EIGHT (28) DAYS. FLYASH MAY BE USED IN THE CONCRETE MIX.
- ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FORTY-FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.
- UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
- ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
- SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.
- ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ILLINOIS SUPPLEMENT OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.

EROSION CONTROL NOTES

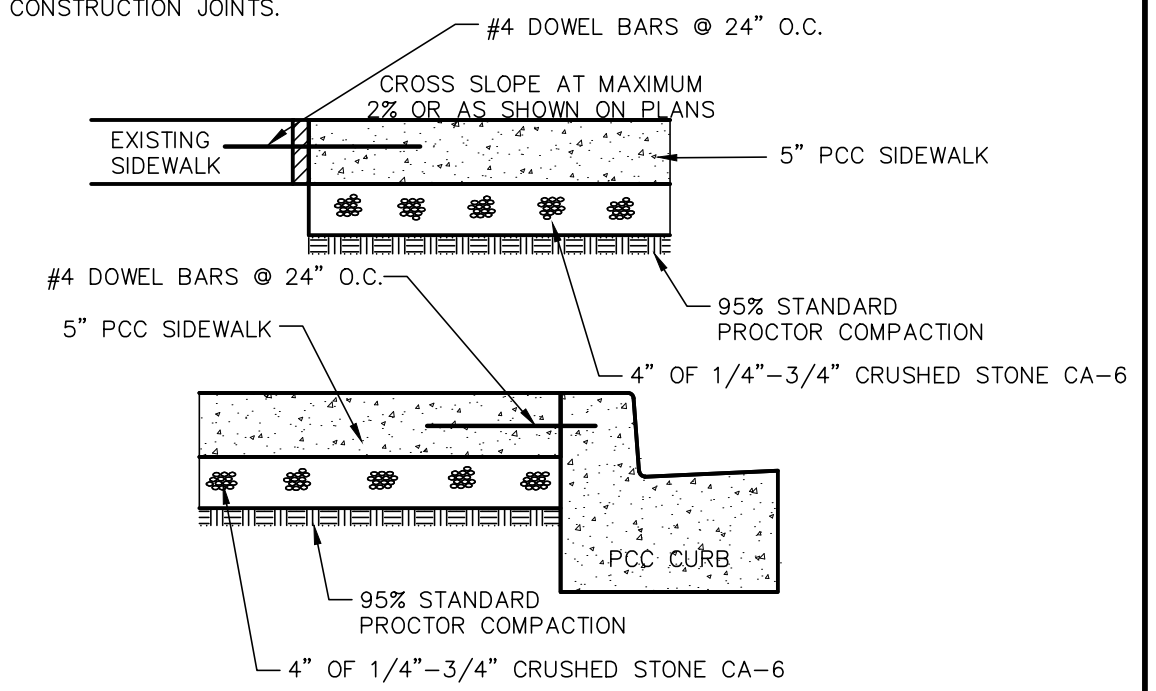
- AT A MINIMUM, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S URBAN MANUAL.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OF MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.
- ALL STORM WATER STRUCTURES WITH OPEN LIDS SHALL BE PROTECTED WITH INLET FILTER BASKETS. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED AS NEEDED, AND BASKETS SHALL BE REPAIRED OR REPLACED AS NEEDED.
- AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED, AND THE DRAINAGE STRUCTURES SHALL BE CLEANED.
- THE CONTRACTOR SHALL KEEP A WATER SOURCE AT THEIR DISPOSAL FOR THE PURPOSE OF WATERING DOWN SOIL ON SITE AND ADJACENT ROADWAYS WHICH OTHERWISE MAY BECOME AIRBORNE.
- THE CONTRACTOR SHALL STABILIZE ALL IDLE, DISTURBED AREAS WITHIN SEVEN DAYS OF CESSATION OF THE CONSTRUCTION ACTIVITIES IN THAT AREA.
- THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.
- ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
- ALL BYPASS CHANNELS, MUST BE CONSTRUCTED SO THAT CHANNEL FLOWS WILL NOT CAUSE EROSION OF EXCAVATED MATERIAL. IN EACH CASE A SEDIMENTATION BASIN MUST BE CONSTRUCTED SO AS TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO THE DOWNSTREAM OUTLET OF THE PROJECT AREA.
- PUMPS MAY BE USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE THE PROJECT LIMIT. ALL PUMPED WATER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SUPPLEMENTAL SEDIMENT CONTROL MEASURES.
- CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.
- PROPERLY MANAGE ALL MATERIAL STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND MAINTENANCE AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.
- WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

NOTES:
1. THICKNESS VARIES

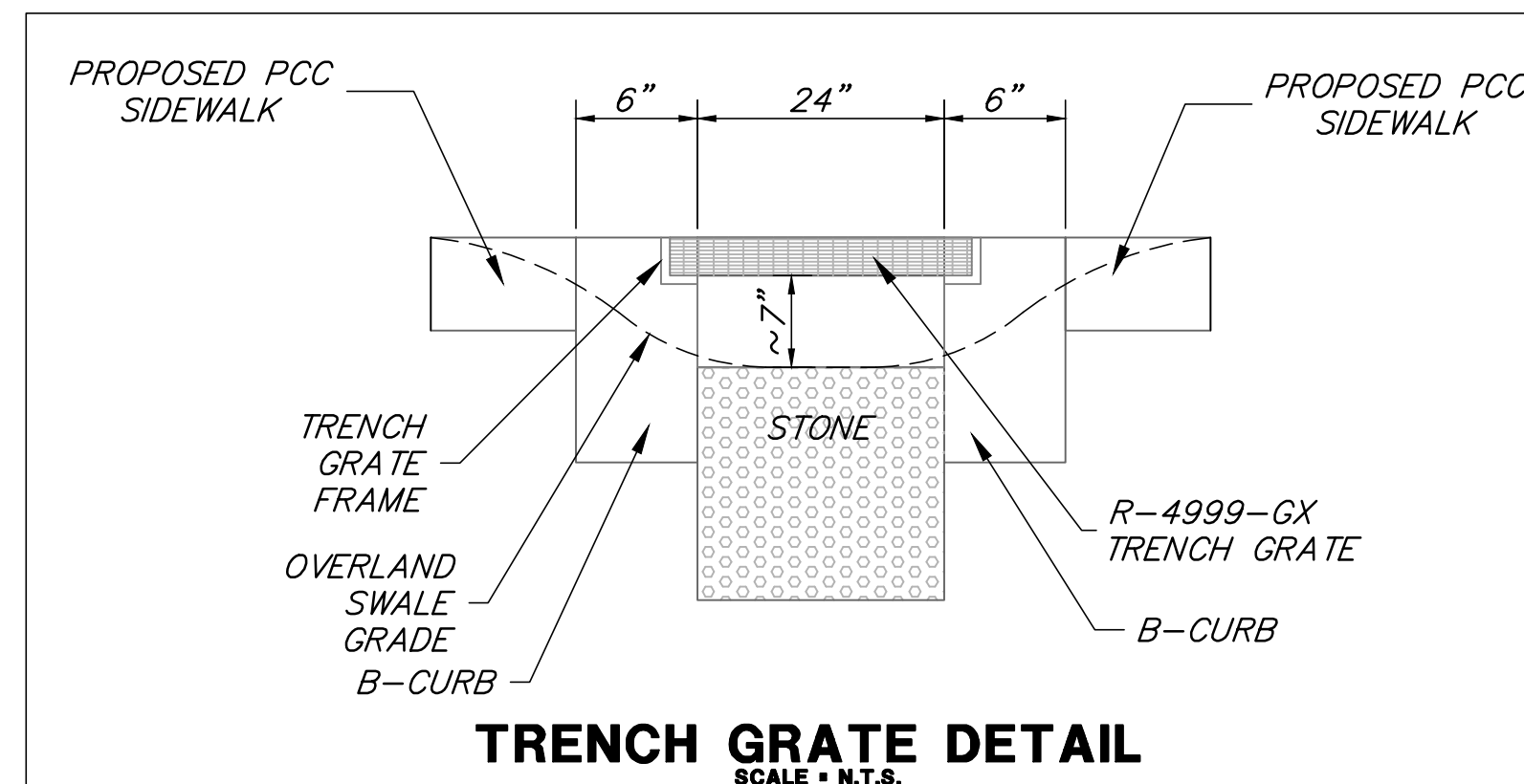


GEWALT HAMILTON ASSOCIATES, INC. HMA SURFACE PATCH DETAIL

- NOTES:
- SET 3/4" EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAVEMENT AND AT 60' MAX. INTERVALS.
 - CONTROL JOINTS SHALL BE 1/8" TO 1/4" SIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVE A 1/4" RADIUS.
 - SIDEWALK WIDTH AS SHOWN ON PLANS.
 - SIDEWALK JOINTS SHALL MATCH CURB CONTROL AND CONSTRUCTION JOINTS.



GEWALT HAMILTON ASSOCIATES, INC. PCC SIDEWALK DETAIL

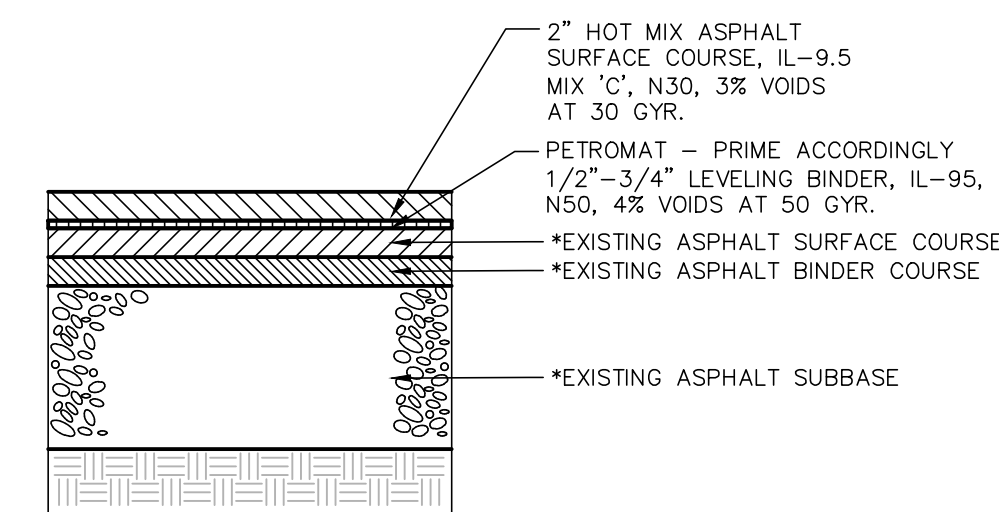


GENERAL NOTES AND DETAILS
ROBERT 'DUTCH' SCHULTZ RECREATION AREA
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

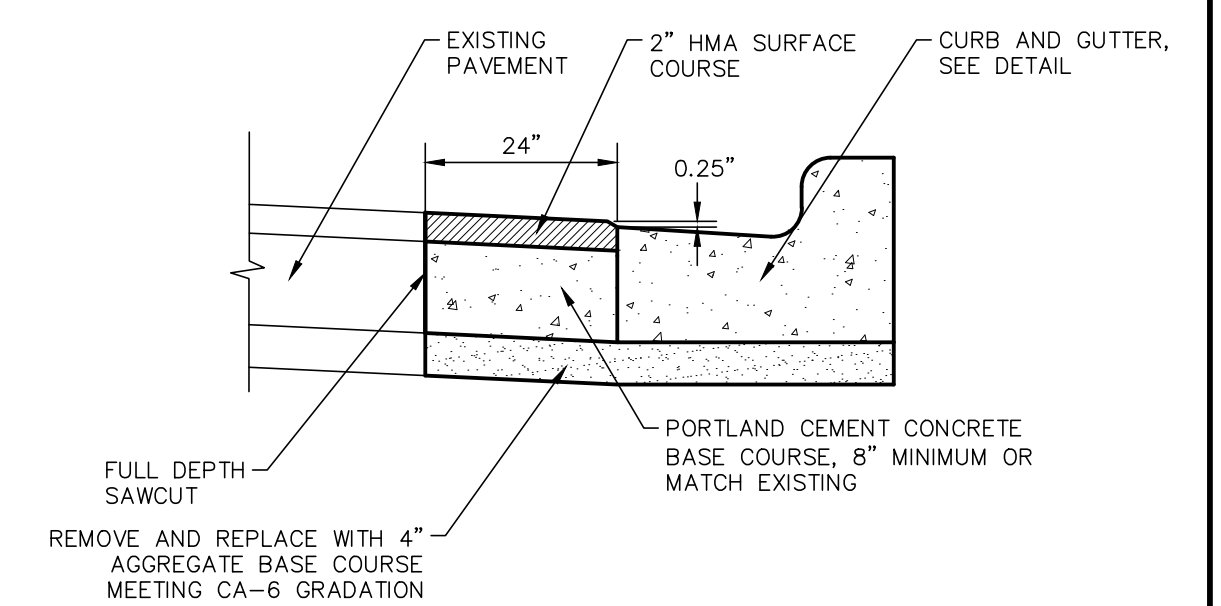
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GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

GEWALT HAMILTON ASSOCIATES, INC. PAVEMENT OVERLAY DETAIL - PETROMAT



GEWALT HAMILTON ASSOCIATES, INC. PAVEMENT PATCH FOR NEW CURB INSTALLATION



NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.212 Schultz_Park_PRI.dwg	SHEET NUMBER: ■
DRAWN BY: PJS	GHA PROJECT # 5241.212
DATE: 3-27-19	SCALE: N.T.S.
CHECKED BY: TAR	OF 3 SHEETS
DATE: 3-27-19	





Dutch Schultz

Direct Costs

Earth excavation	\$ 450.00
Materials	\$ 250.00
Top soil	\$ 3,100.00
Concrete walk way	\$ 2,500.00
Detectable warnings	\$ 500.00
Curb removal	\$ 400.00
Concrete curb	\$ 100.00
Trench grate drain	\$ 2,000.00
	<u>\$ 9,300.00</u>

Total Project \$ 35,731.70

Project Location **Community Center** 10/30/2020
by **Jim Holder** in **Member District ADA Project Request** id. 18062846
ADAProjects@palatineparks.org

Original submission 10/30/2020

Name **Jim Holder**

Job Title **Superintendent of Parks & Planning**

E-mail Address **jholder@palatineparks.org**

Phone Number **847-705-5131**

Park District **Palatine**

Project Status **Alteration
Maintenance**

Project Type **Routes and Surfaces**

Routes and Surfaces- select a Project Category below: **Elevators**

Benefits of the Project **Allows individuals with mobility issues to access the all of the levels Community Center.**

Items that will become ADA Compliant **The project provided continued access to every room in the Community Center.**

The project is designed or constructed, or applies human resources, to comply with: **The 2010 Standards for Accessible Design
The Illinois Accessibility Code**

Upload Project Related Files, Photos, Videos or Audio

[BidTab.pdf](#)

[BoardSummary.pdf](#)

[DLA_Agreement.pdf](#)

[SignedAgreement.pdf](#)

[Specification_Passenger_Elevator_Modernization.pdf](#)

[Community_Center_Calculations.pdf](#)

[Pictures_for_Jim.docx](#)

Budget Table for ADA Related Expenses

[8dd6cace-5f12-446b-b91f-aa24f67d5c17.xlsx](#)

ADA Dollars Requested	58499
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Notes related to requested amount	Cost was determined by actual direct costs of the project.
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PALATINE PARK DISTRICT BOARD SUMMARY

April 3, 2020

From: Joshua Ludolph, Asst. Superintendent of Facilities

Re: Community Center Elevator Modernization
Project 20-04F

Recommendation

& Motion: That the Board of Park Commissioners accept the bid received for the Community Center Elevator Modernization Project provided by Coley Elevator Co., in the amount of \$109,498.00

Rationale: On April 1, 2020 bids from three elevator companies were opened. Colley Elevator Co. of Bensenville, IL provided the lowest responsible bid of \$109,498. This bid amount includes a \$10,000 allowance they if not used would be deducted form the total base bid amount.

The Community Center elevator control systems are near the end of their effective life expectancy. The controller is no longer manufactured and new parts cannot be obtained. \$100,000 was budgeted for the modernization of this elevator unit is part of the 2020 capital plan. Earlier this year the Park Board approved engineering services for this project in the amount of \$17,500 bring the total cost of this project is \$126,998. The additional needed funds for this project will be reallocated from the unused portion of the Community Center Cardio Equipment purchase.

Account Number:	09-000-00903-6461-000
Budget Amount:	\$100,000.00
Reallocation Account Number:	09-000-00903-6404-000
Budget Amount:	\$27,000.00



April 3, 2020

Mr. Josh Ludolph
Assistant Superintendent of Facilities
Palatine Park District
250 E. Wood Street
Palatine, IL 60067

Re: 2020 Passenger Elevator Modernization Project – Bid Recommendation
Palatine Park District: Community Center
DLA Project No. 2020.007

Dear Mr. Ludolph,

Bids were received on April 1, 2020 at 2:00 p.m. for the 2020 Passenger Elevator Modernization project at the Community Center. The Work includes, but is not limited to, the following: a comprehensive elevator modernization of one existing passenger elevator including replacement of the hydraulic power unit, controls, signals and fixtures, door equipment, wiring, and more.

There were three (3) elevator contractors that submitted Bids. Of the Bids received, the lowest bidder was Colley Elevator Co. with a total Base Bid amount of **\$109,498.00** that includes the Base Bid and a contingency allowance. Please see the attached bid tabulation sheet that shows all of the submitted bid values.

Following a review of the Bids, we contacted Mr. TJ Milici of Colley Elevator Co. and verified his Bid as being complete as submitted. **Our office would recommend that the Board accept the total Base Bid contract amount and Award the project to Colley Elevator Co. for the total amount of \$109,498.00.** Should you have any questions or need any additional information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Peter Pontarelli", with a long, sweeping horizontal line extending to the right.

Peter Pontarelli, AIA
Associate Principal

c: Mr. Lou Noto, DLA Architects, Ltd.



**Palatine Park District
Community Center
2020 Passenger Elevator Modernization**

DLA Project No. 2020.007
April 1, 2020



Contractor	Bid Bond	Base Bid (Including Allowance)	Alternate No. 1 (Cab Allowance)	Alternate No. 2 (Entrance Door Upgrades)	Total (Base Bid and Alternates)
Anderson Elevator Co.	x	\$134,010.00	\$10,000.00	\$15,920.00	\$159,930.00
Colley Elevator	x	\$109,498.00	\$10,000.00	\$32,352.00	\$151,850.00
Urban Elevator Service	x	\$165,931.00	\$10,000.00	\$19,205.00	\$195,136.00

New elevator control board



New elevator motor



Community Center Elevator Project

Direct Costs

Architect fee	\$	17,500.00
Contract Amount	\$	109,498.00
Deduct unused Allowance	\$	(10,000.00)

Project Total \$ 116,998.00

Project Location	Birchwood South Park	10/27/2020
	by Jim Holder in Member District ADA Project Request	id. 18026152
	ADAProjects@palatineparks.org	

Original submission 10/27/2020

Name	Jim Holder
Job Title	Superintendent of Parks & Planning
E-mail Address	jholder@palatineparks.org
Phone Number	847-705-5131
Park District	Palatine
Project Status	Alteration Maintenance
Project Type	Routes and Surfaces
Routes and Surfaces- select a Project Category below:	Accessible Routes- Means of Egress Parking Spots Walking Surfaces
Benefits of the Project	Allows individuals with mobility issues to access the park and facility from the neighborhood. It also includes two additional handicapped parking areas to access the park site amenities.
Items that will become ADA Compliant	Access to park amenities
The project is designed or constructed, or applies human resources, to comply with:	The 2010 Standards for Accessible Design The Illinois Accessibility Code Agency's ADA Transition Plan

Upload Project Related Files, Photos, Videos or Audio

[Birchwood_S_Calculations.pdf](#)

[birchwoodsouthparkfinaldocs.pdf](#)

[5241.212_PR1-EXH2_-_Preliminary_South_Lot_Plan.pdf](#)

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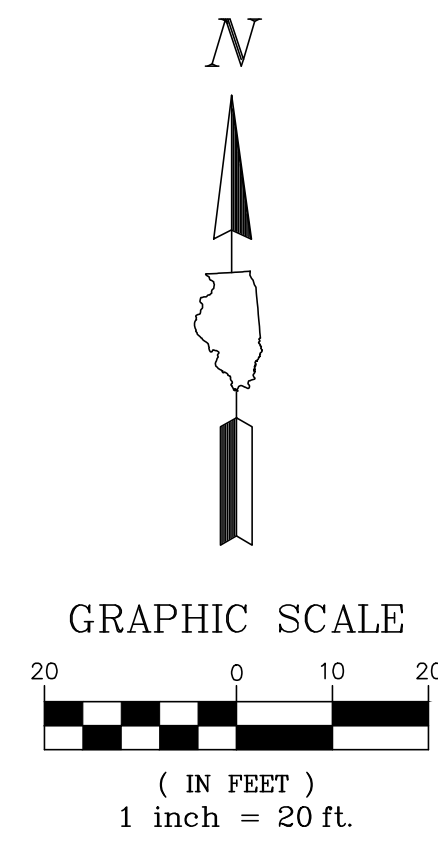
[IMG_20201009_111606108_HDR.jpg](#)

Budget Table for ADA Related Expenses

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ADA Dollars Requested	43461.44
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Notes related to requested amount	Cost was determined by actual direct costs and percentage of the total project cost. Direct costs were removed from total cost to determine the percentage cost.
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EXISTING PARKING
 NORTH LOT = 50 REGULAR + 3 ACCESSIBLE
 CENTRAL LOT = 79 REGULAR + 4 ACCESSIBLE

PROPOSED PARKING
 SOUTH LOT = 98 REGULAR + 2 ACCESSIBLE

TOTAL = 227 REGULAR + 9 ACCESSIBLE
 = 236 COMBINED STALLS

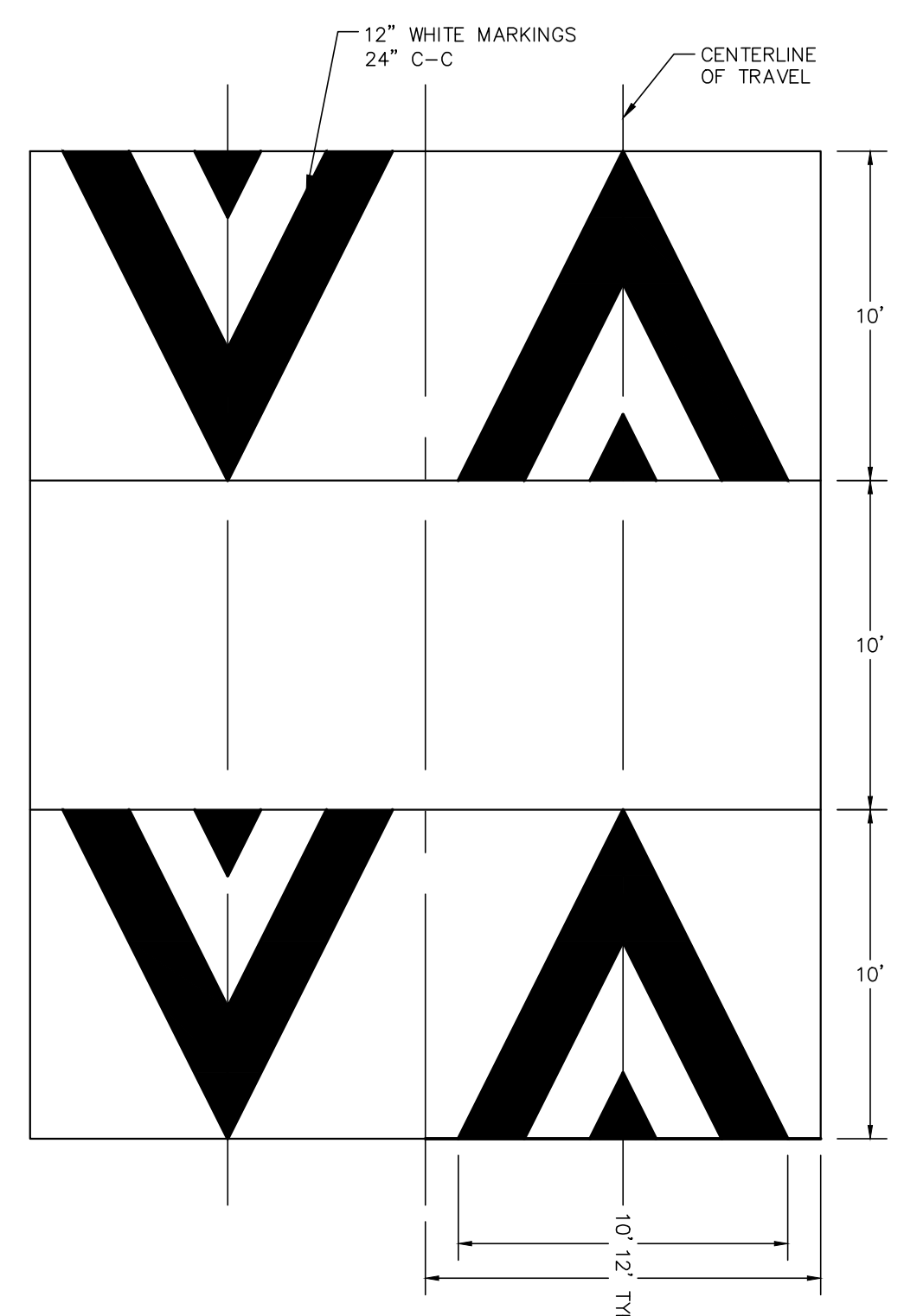
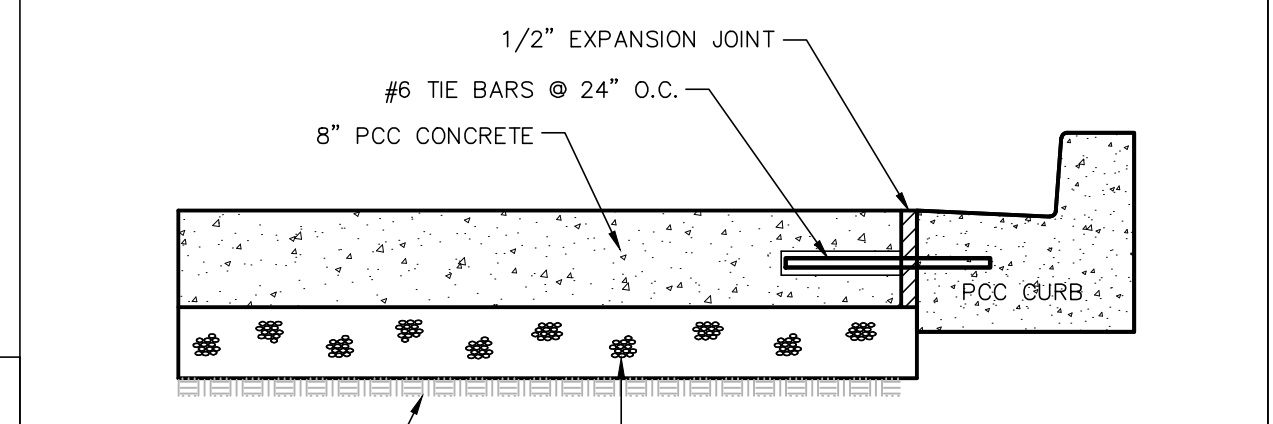
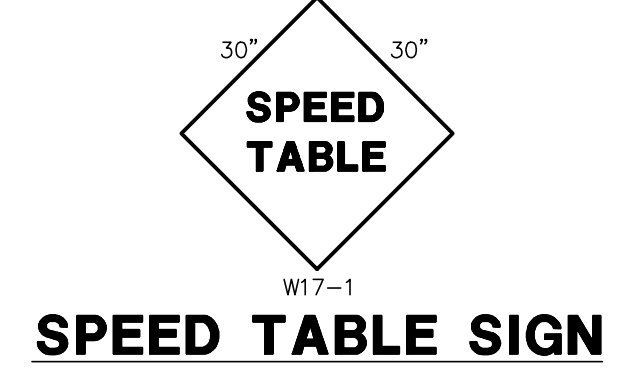
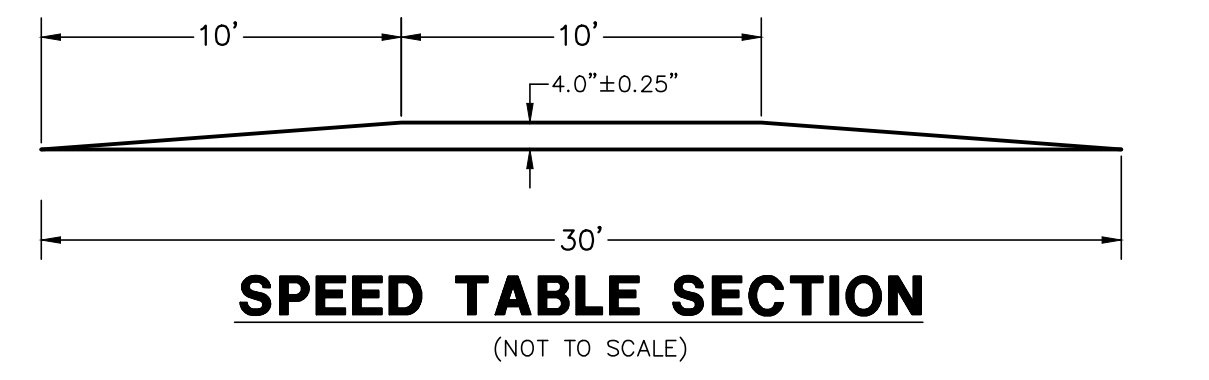
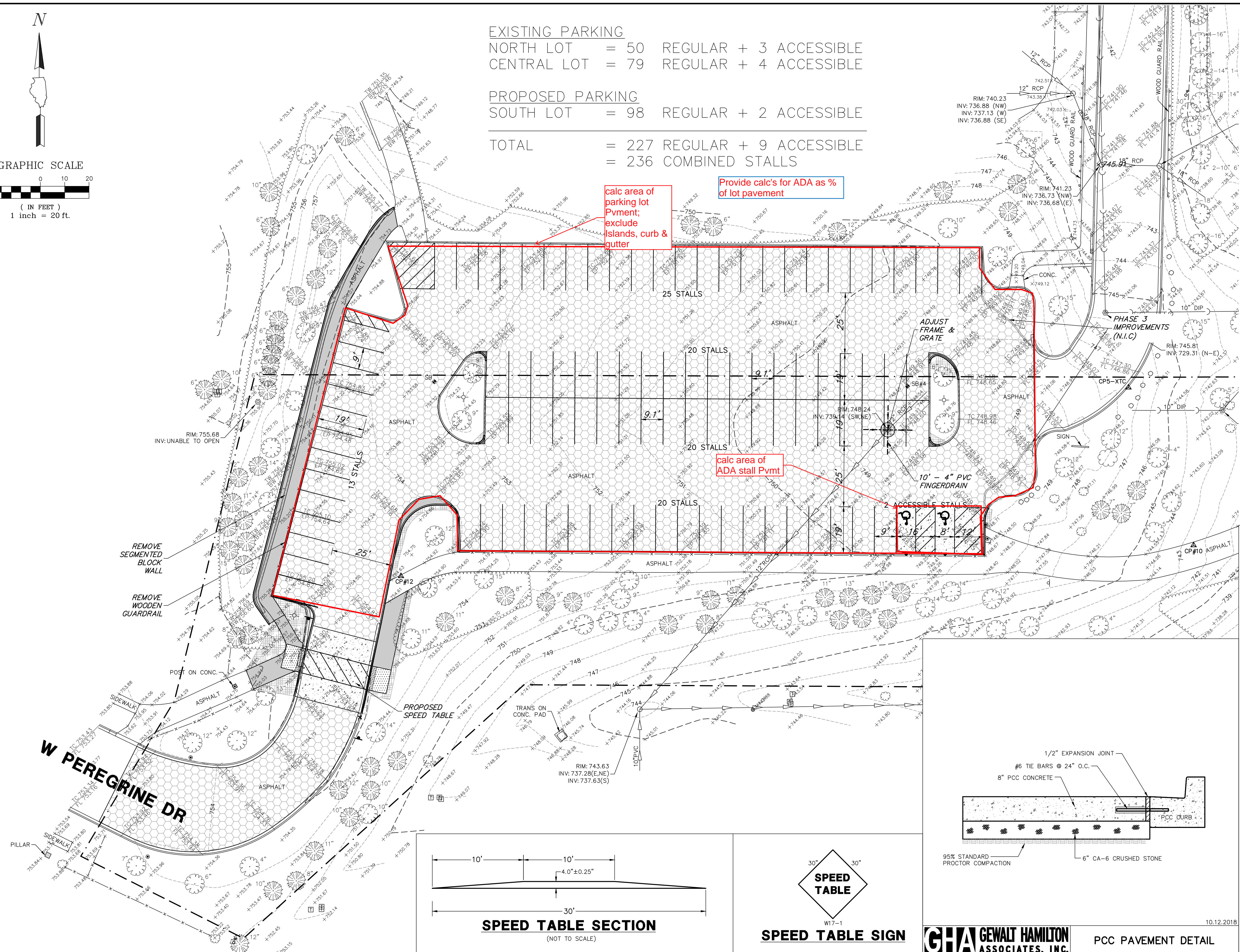
calc area of parking lot Pvmnt; exclude islands, curb & gutter

Provide calc's for ADA as % of lot pavement

calc area of ADA stall Pvmnt

- LEGEND** ADA Lot Coverage 2020-08-20
- BITUMINOUS PAVEMENT
 - HMA SURFACE & BINDER REMOVE & REPLACE
 - PCC SIDEWALK
 - TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH SEEDING, CLASS 1A MULCH, METHOD 3A
 - PCC PAVEMENT
 - DETECTABLE WARNINGS
 - B6.12 CURB & GUTTER (REGULAR)
 - B6.12 CURB & GUTTER (ADA DEPRESSED)
 - B6.12 CURB & GUTTER (REVERSE PITCH)
 - BARRIER CURB
 - BARRIER CURB (ADA DEPRESSED)
 - PROPOSED STORM UNDERDRAIN
 - PROPOSED SIGN

Parking Lot Area - 35,064 SF
 ADA Area - 678 SF
 ADA % - 1.93%



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 TEL 847.478.9700 ■ FAX 847.478.9701

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PRELIMINARY SOUTH LOT PLANS
BIRCHWOOD PARK
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.212_P01.dwg	SHEET NUMBER:
DRAWN BY: EJS	GHA PROJECT #
DATE: 01-16-20	5241.212
CHECKED BY: TAR	SCALE:
DATE: 01-16-20	1"=20'
	OF 2 SHEETS

EXH2





BWS parking lot

New pathway on west side Bid	Total bid	\$ 27,425.20	62.50%	\$ 17,140.75
------------------------------	-----------	--------------	--------	--------------

Detectable warnings		\$ 968.00		
Concrete entry to speed table		\$ 1,842.00		
Concrete Speed table crosswalk		\$ 19,466.00		
				\$ 22,276.00

Parking lot total bid	<u>\$ 231,845.51</u>
Adjusted Bid total without direct ADA cost	<u>\$ 209,569.51</u>

Percent ADA See attached calculation drawing	\$ 209,569.51	1.93%	\$ 4,044.69
--	---------------	-------	-------------

\$ 43,461.44

Project Location **Birchwood Park** 10/27/2020
by **Jim Holder** in **Member District ADA Project Request** id. 18026083
ADAProjects@palatineparks.org

Original submission 10/27/2020

Name	Jim Holder
Job Title	Superintendent of Parks & Planning
E-mail Address	jholder@palatineparks.org
Phone Number	847-705-5131
Park District	Palatine
Project Status	Alteration
Project Type	Routes and Surfaces
Routes and Surfaces- select a Project Category below:	Accessible Routes- Means of Egress Parking Spots Sidewalks
Benefits of the Project	Allows individuals with mobility issues to access the recreation center, aquatic center, and playground from the parking area.
Items that will become ADA Compliant	Access to the facility and playground.
The project is designed or constructed, or applies human resources, to comply with:	The 2010 Standards for Accessible Design The Illinois Accessibility Code Agency's ADA Transition Plan

Upload Project Related Files, Photos, Videos or Audio

[Birchwood_N_Calculations.pdf](#)

[birchwoodparkfinaldocs.pdf](#)

[5241.212_PR1-03_-_Geometric_Utility.pdf](#)

[5241.212_Birchwood_2019-04-12_DRAFT.pdf](#)

[IMG_20201009_111946496_HDR.jpg](#)

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[IMG_20201009_135154381_HDR.jpg](#)

Budget Table for ADA Related Expenses

[3689a250-f447-46de-bda8-b8a584f6c9a0.xlsx](#)

ADA Dollars Requested	42854.18
-----------------------	-----------------

Notes related to requested amount	Cost was determined by actual direct costs and percentage of the total project cost. Direct costs were removed from total cost to determine the percentage cost.
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PROPOSED SITE IMPROVEMENTS BIRCHWOOD PARK

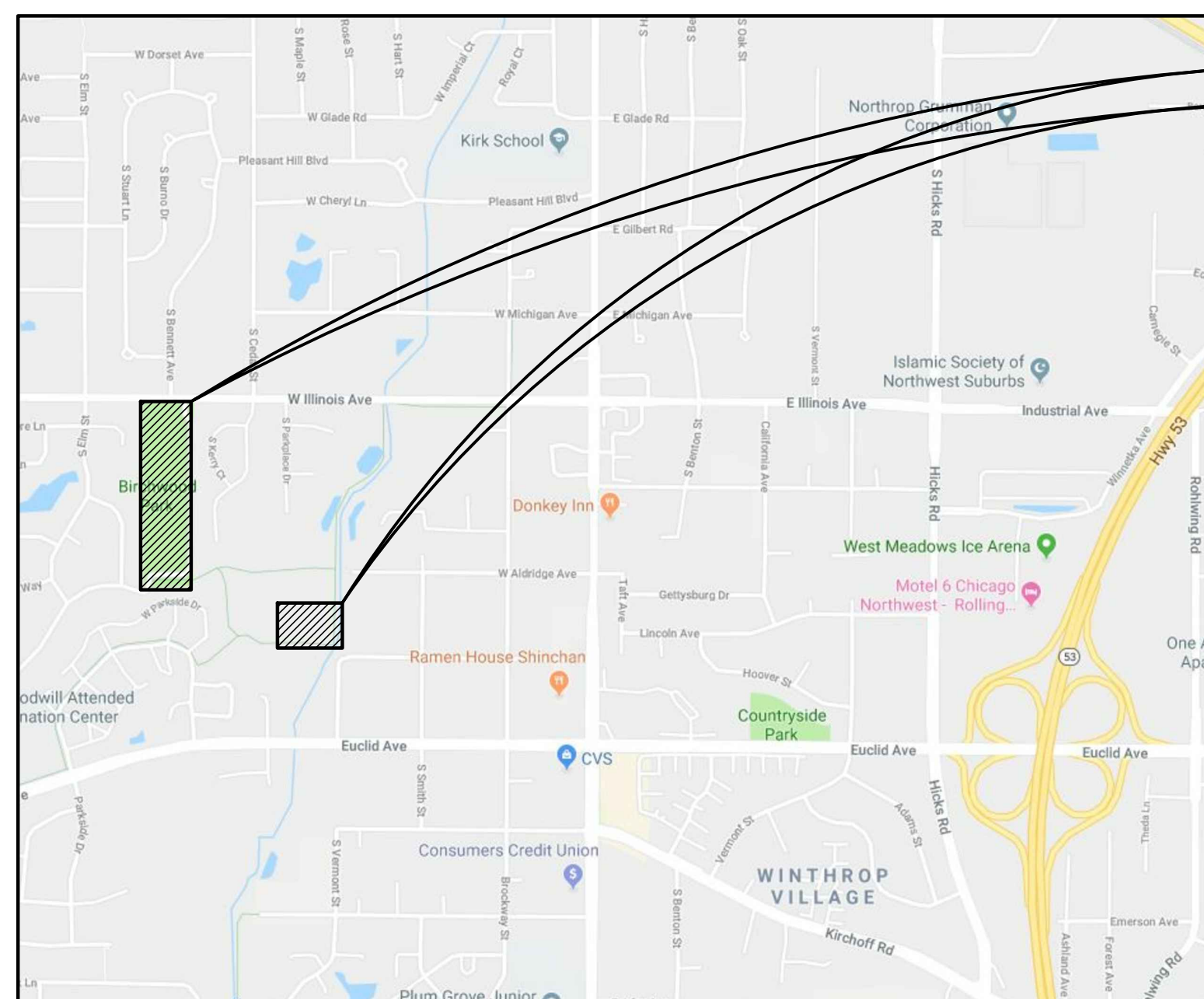
PALATINE PARK DISTRICT PALATINE, ILLINOIS

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		
COMBINE SEWER LINE		
CONTOUR		
CULVERT		
DITCH/SWALE		
ELECTRIC LINE		
ELECTRIC MANHOLE		
FENCE		
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE		
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES		
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION		
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE		
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE-CONIFEROUS (SIZE/TAG#)		
TREE-DECIDUOUS (SIZE/TAG#)		
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE		

SHEET INDEX

1. TITLE SHEET
2. EXISTING CONDITIONS/DEMOLITION PLAN
3. GEOMETRIC PLAN
4. GRADING PLAN
5. SOIL EROSION AND SEDIMENT CONTROL PLAN
6. STORMWATER POLLUTION PREVENTION PLAN NOTES
7. SOIL EROSION AND SEDIMENT CONTROL DETAILS
8. GENERAL NOTES
9. MWRD NOTES
10. DETAILS



PROJECT LOCATION
WEST ILLINOIS AVENUE
PALATINE, ILLINOIS

TOPOGRAPHIC SURVEY BY:
GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

PLANS PREPARED FOR:
PALATINE PARK DISTRICT
250 EAST WOOD STREET
PALATINE, ILLINOIS 60067
TELEPHONE: 847-991-0333

COORDINATING/PERMITTING AGENCIES:
VILLAGE OF PALATINE
200 EAST WOOD STREET
PALATINE, ILLINOIS 60067
TELEPHONE: 847-202-6963

METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO (MWRDGC)
111 EAST ERIE STREET
CHICAGO, ILLINOIS 60611
TELEPHONE: 312-751-5600

PROFESSIONAL DESIGN FIRM LICENSE:
GEWALT HAMILTON ASSOCIATES, INC.
DESIGN FIRM - LAND SURVEYOR/PROF ENG
LICENSE NUMBER: 184.000922-0010
EXPIRES: 4/30/2021

LOCATION MAP (Not to Scale)

BENCHMARK:

ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING
TRIMBLE VRS@NOW™ (NO PUBLISHED MONUMENT VERIFIED)
DATUM: NAVD88

CONTROL POINTS:

Point #	Northing	Easting	Elevation	Description
1	1977470.19	1059695.26	746.33	CP1-MN
2	1976892.82	1059715.40	736.30	CP2-MN
3	1977694.11	1059682.52	751.32	CP3-XSW
4	1976601.13	1059717.30	740.81	CP4-MN
5	1976325.87	1059727.95	747.80	CP5-XTC
9	1976817.37	1059463.99	739.58	CP9-MN
10	1976260.95	1059754.75	742.65	CP10-MN
11	1976686.49	1059441.16	744.50	CP11-MN
12	1976248.27	1059428.69	754.83	CP12-MN

DRAINAGE STATEMENT

TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF THE SURFACE WATERS WILL NOT BE CHANGED BY CONSTRUCTION OF THIS SUBDIVISION (DEVELOPMENT), OR ON THIS SITE, OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE PROPERTY OWNER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF CONSTRUCTION OF THE SUBDIVISION (DEVELOPMENT), OR THIS SITE.

Dated this _____ day of _____ A.D., 20____

Owner or Attorney _____

Engineer _____

J.U.L.I.E

JOINT
UTILITY
LOCATION
INFORMATION FOR
EXCAVATION
CALL 811



Know what's below.
Call before you dig.

NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

SIGNED: _____ P.E.

DONALD E. DIXON

DATE: _____

ILLINOIS LICENSE NO.: 062-056334

EXPIRATION DATE: NOVEMBER 30, 2019

DRAFT

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

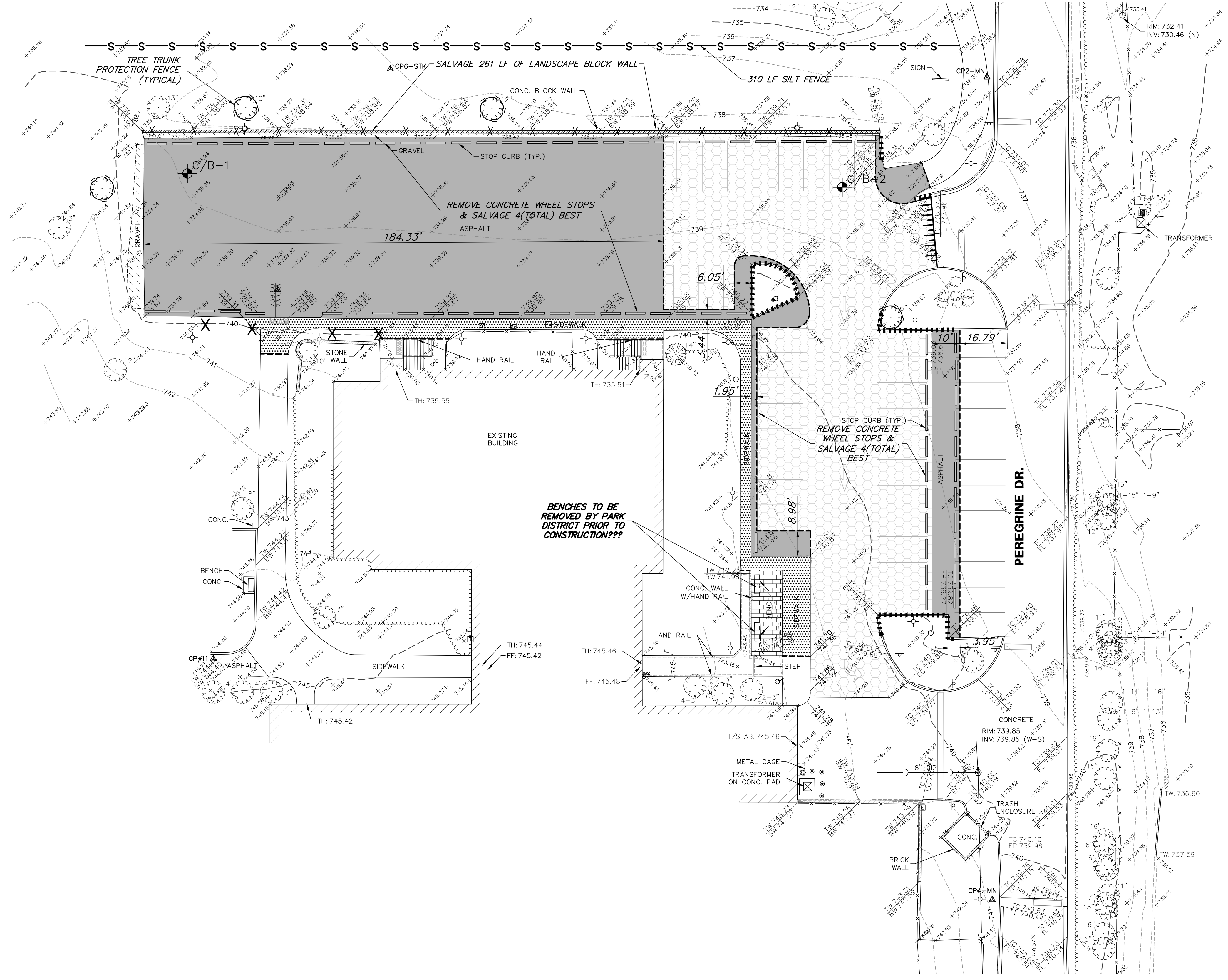
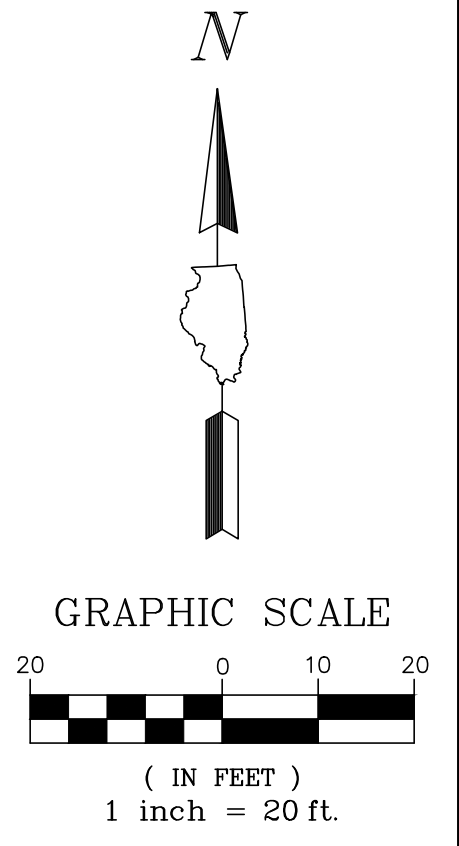
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TITLE SHEET
SITE IMPROVEMENTS - BIRCHWOOD PARK
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.212-DT1.dwg	SHEET NUMBER:
DRAWN BY: EJS	GHA PROJECT #
DATE: 04-11-19	5241.212
CHECKED BY: DED	SCALE:
DATE: 04-11-19	N.A.
	OF XX SHEETS

1

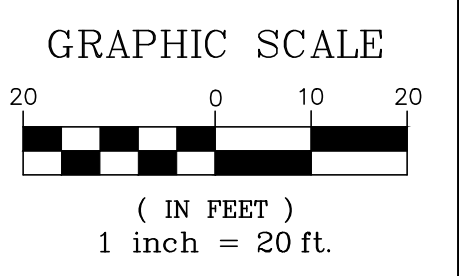


- REMOVAL LEGEND**
- PAVEMENT REMOVAL FULL DEPTH
 - HMA SURFACE REMOVAL (2" DEPTH)
 - BRICK REMOVAL
 - GRAVEL REMOVAL
 - SIDEWALK REMOVAL
 - SIGN REMOVAL
 - PERIMETER EROSION BARRIER
 - TREE TRUNK PROTECTION FENCE
 - COMBINATION CURB AND GUTTER REMOVAL
 - HMA SURFACE REMOVAL - BUTT JOINT
 - PAVEMENT SAWCUT
 - SOIL BORING

BENCHES TO BE REMOVED BY PARK DISTRICT PRIOR TO CONSTRUCTION???

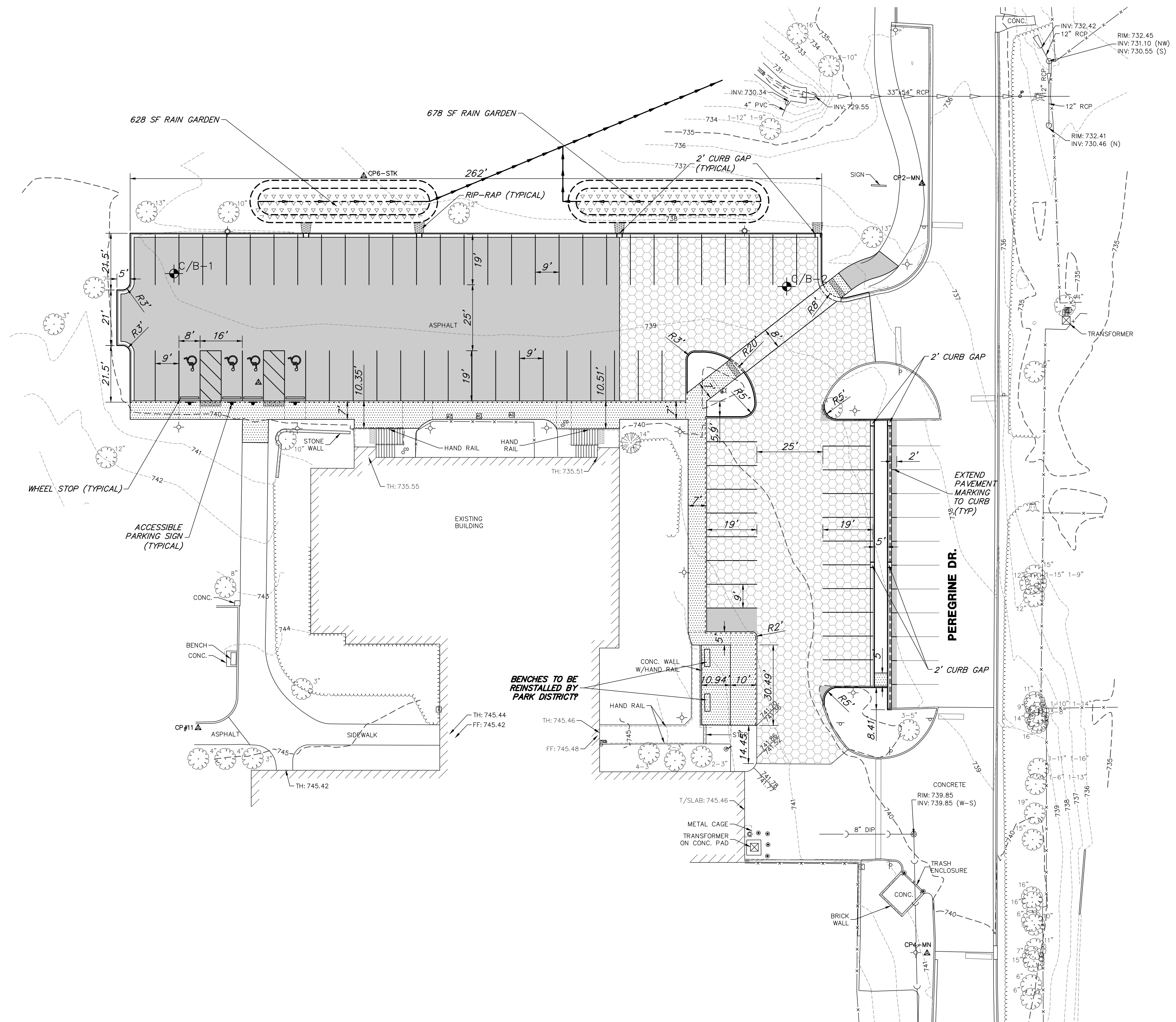
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

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GEOMETRIC LEGEND

- BITUMINOUS PAVEMENT
- HMA SURFACE COURSE MIX D, N50
- PCC SIDEWALK
- RAIN GARDEN
- STONE RIP RAP, CLASS A1
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (ADA DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- BARRIER CURB
- BARRIER CURB (ADA DEPRESSED)
- INTEGRATED SIDEWALK/CONCRETE CURB



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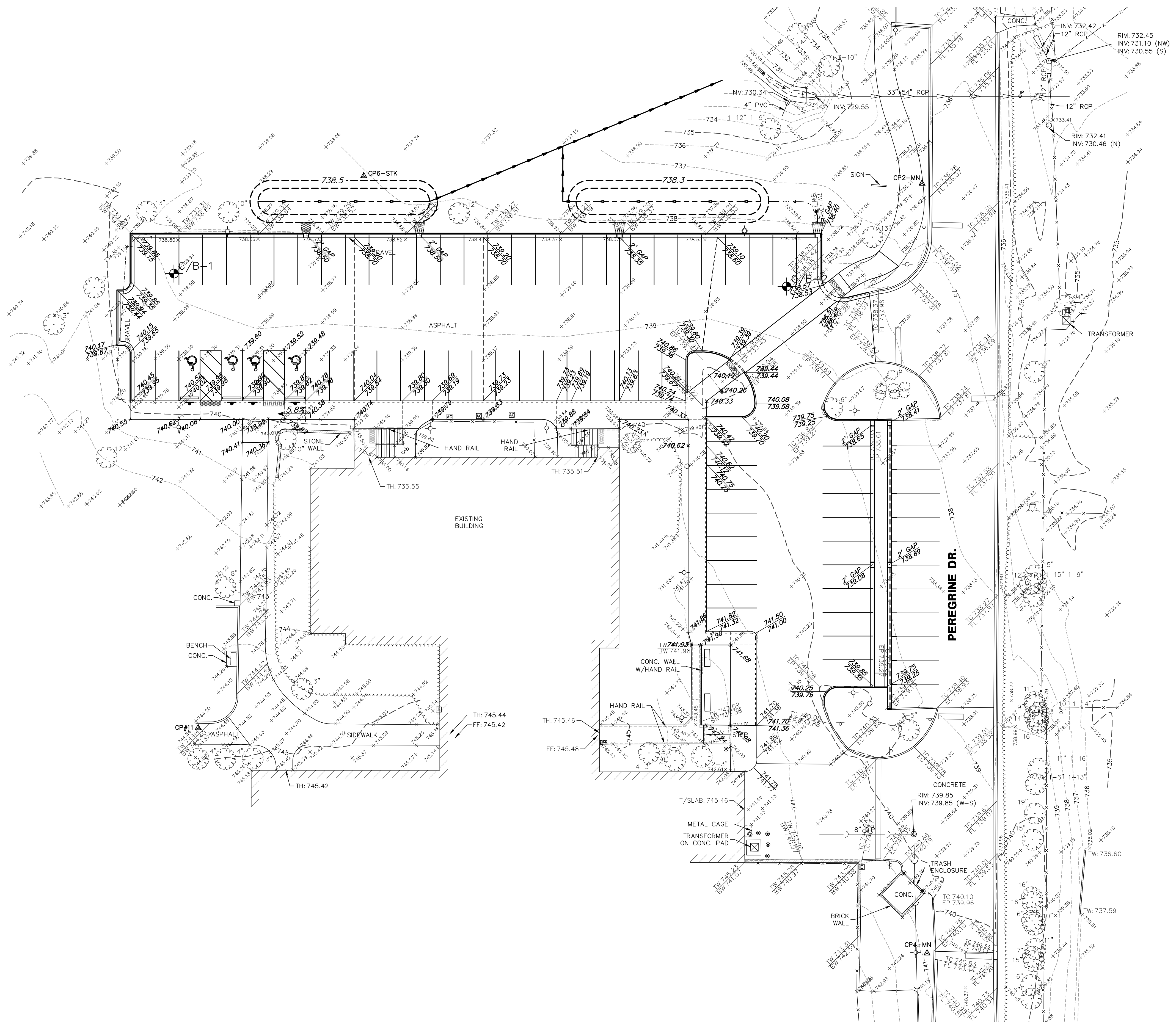
PROPOSED IMPROVEMENTS
BIRCHWOOD PARK
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.212_P01.dwg	SHEET NUMBER:
DRAWN BY: EJS	GHA PROJECT #
DATE: 04-11-19	5241.212
CHECKED BY: DED	SCALE:
DATE: 04-11-19	1"=20'
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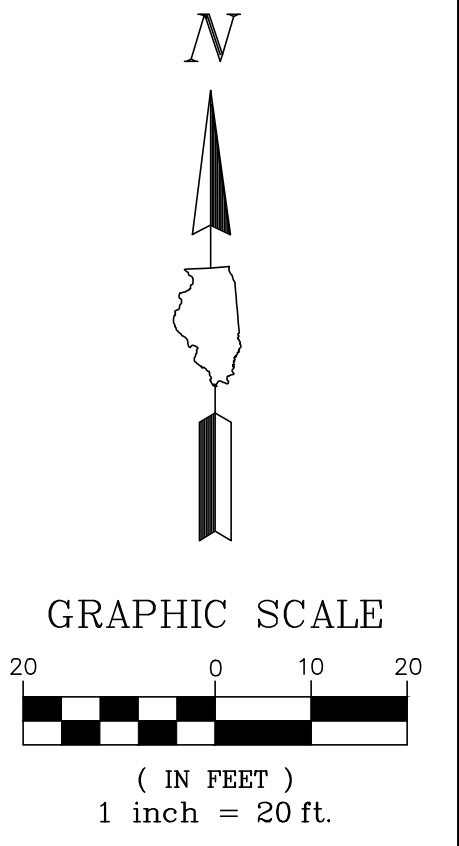
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GRADING LEGEND

- SUMMIT --- SUMMITS
- 0.50% SLOPES
- SWALES
- x 739.83 SPOT ELEVATION



GRADING PLAN
SITE IMPROVEMENTS - BIRCHWOOD PARK
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

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NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.212_PRI.dwg	SHEET NUMBER:
DRAWN BY: EJS	GHA PROJECT #
DATE: 04-11-19	5241.212
CHECKED BY: DED	SCALE:
DATE: 04-11-19	1"=20'
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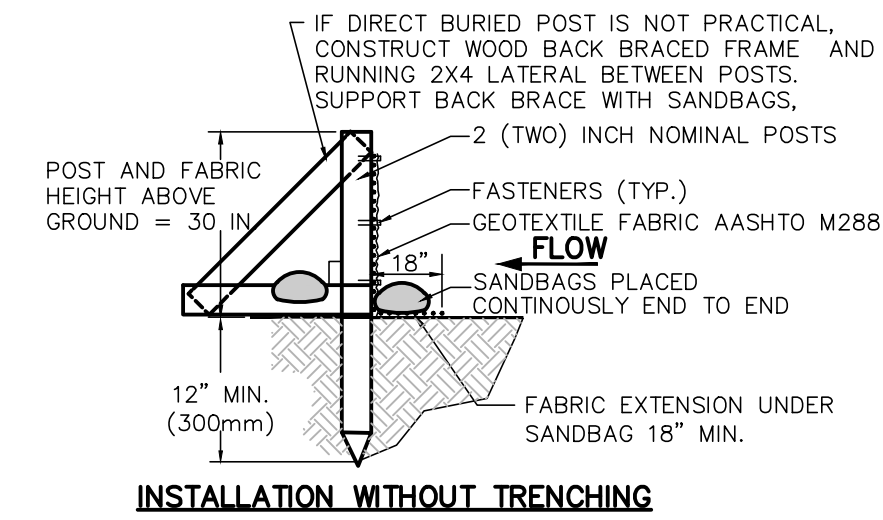
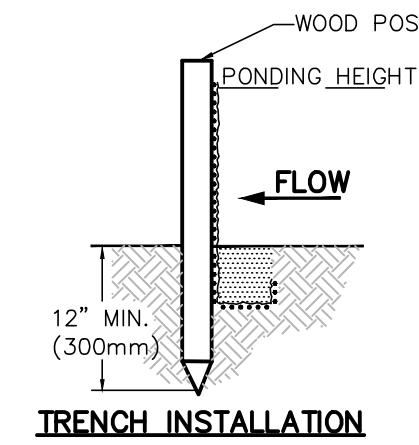
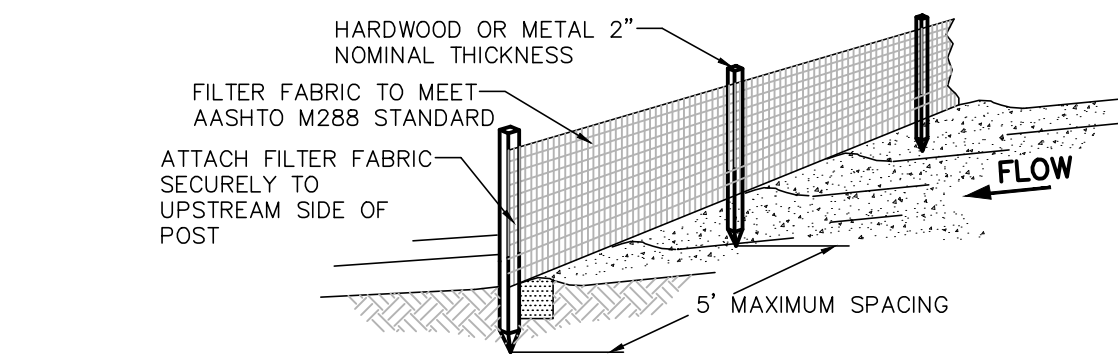
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- NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 4. FABRIC AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AASHTO STANDARD SPECIFICATION M-288-00.
 5. SLICING METHOD IS PREFERRED.

PROPERTY	TEST PROCEDURE	
Grab Elongation		
Machine Direction	ASTM D-4533	123 lbs
X-Machine Direction	ASTM D-4833	101 lbs
Permittivity	ASTM D-4491	0.05 sec ⁻¹
A.S.O.	ASTM D-4751	30 u.s. Sieve
UV Stability	ASTM D-4355	70%

1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF THE POST
2. ATTACH AASHTO GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3(THREE) FASTENERS PER POST AND EXTEND TO THE BOTTOM OF THE TRENCH. ACCEPTABLE FASTENERS INCLUDE STAPLES, ZIP-TIES, OR WIRE TIES.
3. BACKFILL AND COMPACT THE EXCAVATED SPOIL MATERIALS

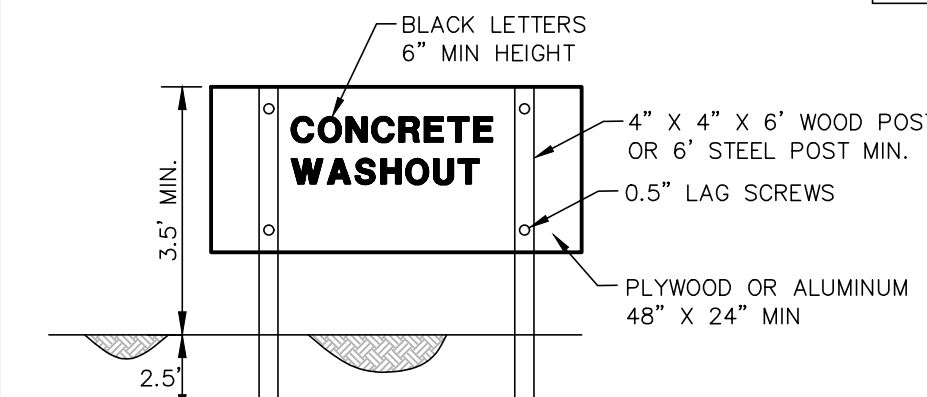


03.15.2016

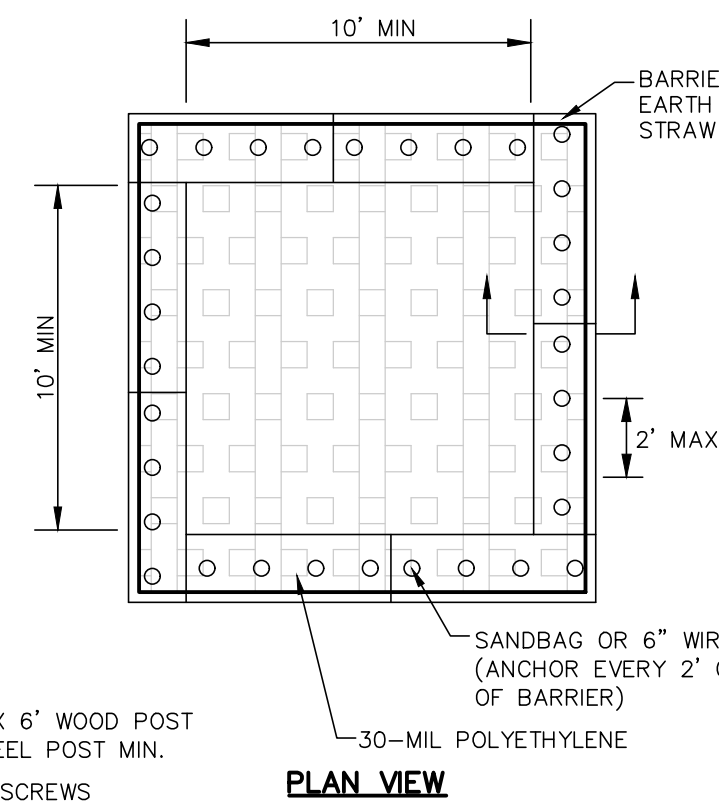
GHA GEWALT HAMILTON ASSOCIATES, INC.

SILT FENCE INSTALLATION DETAIL

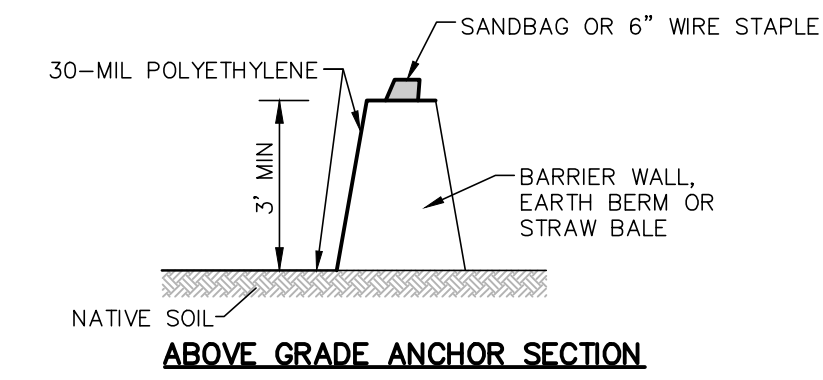
- NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
 3. CONCRETE WASHOUT SHOULD NOT BE ALLOWED IN STREET OR TO REACH A STORM WATER DRAINAGE SYSTEM OR WATERCOURSE.
 4. CONCRETE WASHOUT AREA TO BE LOCATED AT LEAST 10' BEHIND CURB IF ADJACENT TO A PAVED ROAD.
 5. IF USING STRAW BALES, STAKE IN PLACE USING (2) 2"x2"x4" WOODEN STAKES.
 6. STRAW BALES SHALL BE TRENCHED IN 3".
 7. CONCRETE WASHOUT DUMPSTER MAY BE USED IN LIEU OF CONSTRUCTION ONE AS DETAILED.



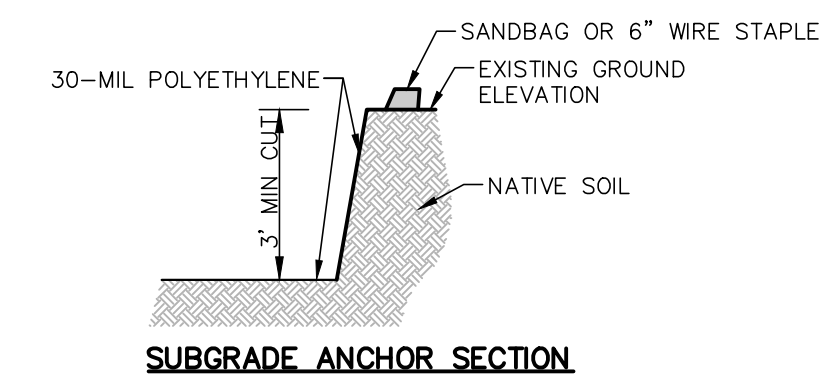
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



PLAN VIEW



ABOVE GRADE ANCHOR SECTION



SUBGRADE ANCHOR SECTION

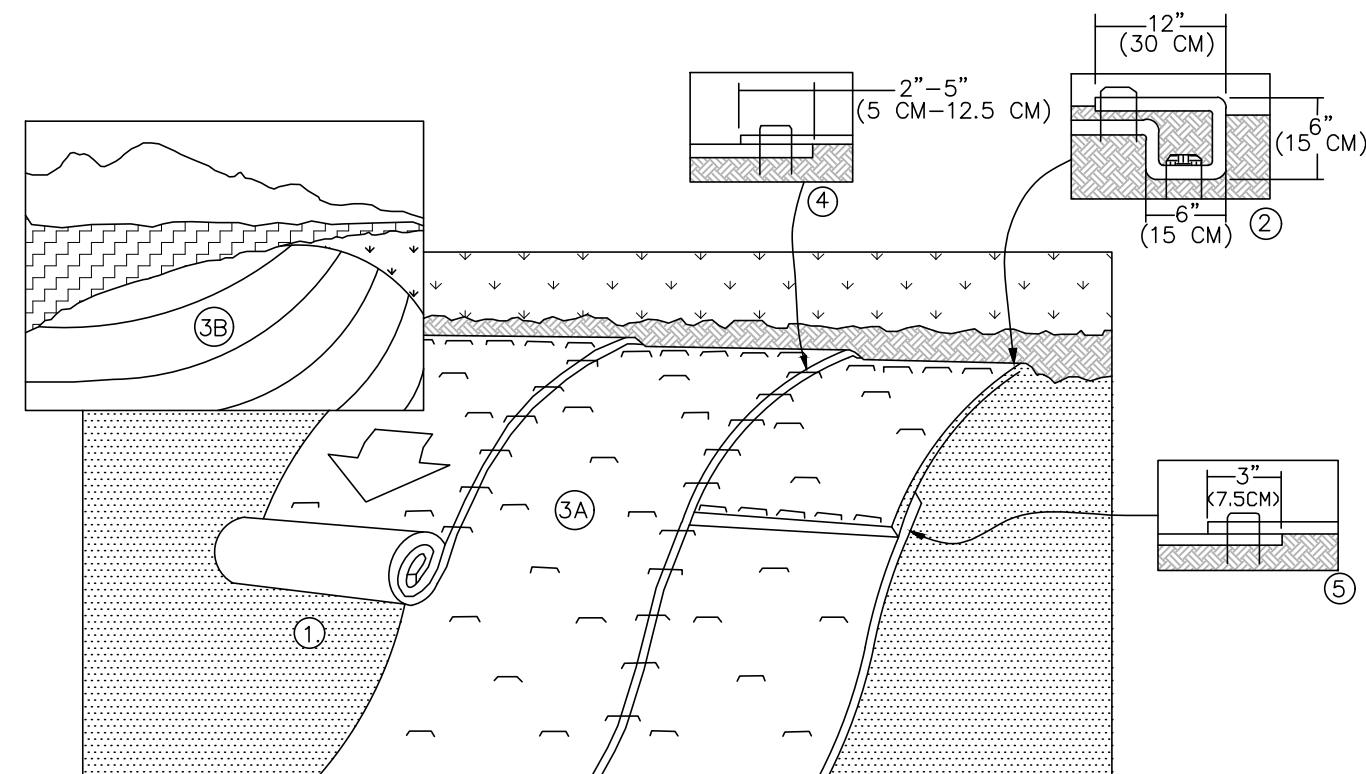
- MAINTENANCE:
1. DRIED CONCRETE WASTE SHALL BE PICKED UP AND DISPOSED OF PROPERLY WHEN 75% OF CAPACITY IS REACHED.
 2. HARDENED CONCRETE CAN BE PROPERLY RECYCLED AND REUSED ONSITE OR HAULED OFF-SITE TO AN APPROPRIATE FACILITY.

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.

CONCRETE WASHOUT

- NOTES:
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
 3. ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE CIRCLED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
 5. CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.



STAPLE PLACEMENTS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SEE STAPLE PATTERN GUIDES FOR ACTUAL RECOMMENDED PLACEMENTS.

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.

EROSION CONTROL BLANKET SLOPE INSTALLATION

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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SOIL EROSION AND SEDIMENT CONTROL DETAILS
SITE IMPROVEMENTS - BIRCHWOOD PARK
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE:	5241.212-DT1.dwg	SHEET NUMBER:
DRAWN BY:	EJS	X
DATE:	04-11-19	
CHECKED BY:	DED	OF XX SHEETS
DATE:	04-11-19	
GHA PROJECT #	5241.212	
SCALE:	N.A.	

- NOTES:
1. EXISTING TREES TO BE PROTECTED SHALL HAVE SNOW FENCE INSTALLED AT THE DRIP LINE OF THE TREE TO PREVENT THE STUMPING OF EXCAVATED OR CONSTRUCTION MATERIALS UNDER THE TREE, AND PROHIBIT VEHICULAR TRAFFIC OR EXCESSIVE FOOT TRAFFIC WITHIN THE DRIP LINE.
 2. SNOW FENCE SHALL BE WEBBED HOPE CONSTRUCTION FENCING, COLORED ORANGE AND SUPPORTED WITH STEEL "TEE" POSTS SET AT MAX. 15' INTERVALS, OR AS REQUIRED TO MAINTAIN THE FENCE IN AN UPRIGHT POSITION THROUGHOUT THE TERM OF CONSTRUCTION, IN CONFORMANCE WITH SECTION 201.05a OF THE HIGHWAY STANDARDS.
 3. TREES THAT MAY BE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN A MANNER ACCEPTABLE TO THE VILLAGE.

GHA GEWALT HAMILTON ASSOCIATES, INC.

TREE PROTECTION FENCING DETAIL

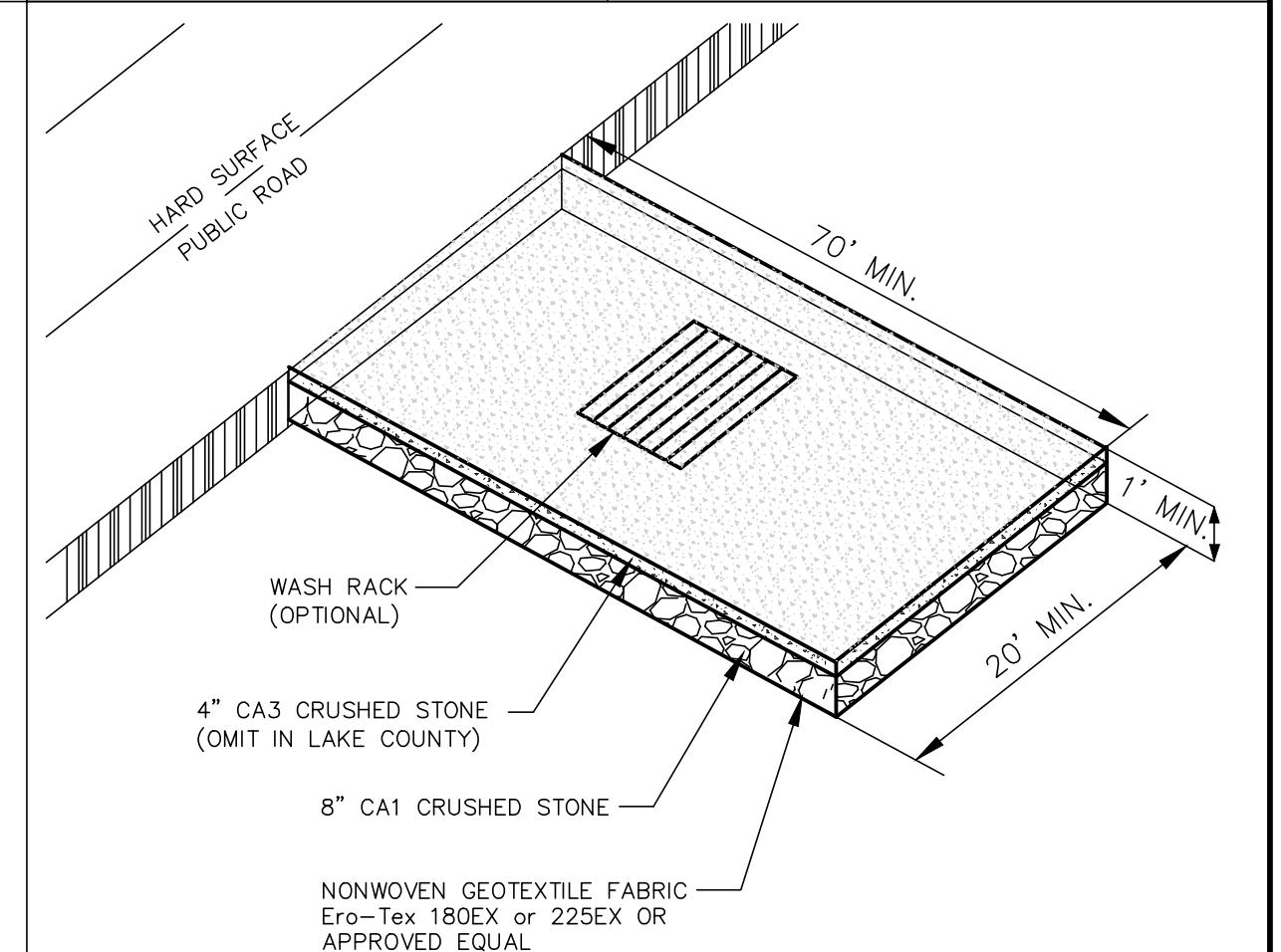
Stabilization Type:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Permanent Seeding			A			X	X	X	X	X		
Dormant Seeding	B											
Temporary Seeding			C			X	X	X	X	X		
Sodding			E	X	X							
Mulching			F									

A = KENTUCKY BLUEGRASS @ 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS @ 30 LBS./AC.
B = KENTUCKY BLUEGRASS @ 135 LBS./AC. MIXED WITH PERENNIAL RYEGRASS @ 45 LBS./AC.
C = SPRING OATS @ 100 LBS./AC.
D = WHEAT OR CEREAL RYE @ 150 LBS./AC.
E = SOD
F = STRAW MULCH (HYDROMULCH OR USE STRAW BLANKET) @ 2 TONS/AC.
XXX = IRRIGATION NEEDED
IRRIGATION SHOULD BE PROVIDED AS NECESSARY TO THOROUGHLY ESTABLISH INTENDED GROWTH.
NOTE: SPRAYED ON PRODUCTS CANNOT BE USED NOV.-FEB.

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.

TYPICAL SOIL PROTECTION CHART



NOTE: IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.

TEMPORARY CONSTRUCTION ENTRANCE

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE ILLINOIS PLUMBING CODE, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

PROJECT SPECIFIC NOTES

- THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE, SUFFICIENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY DETENTION VOLUMES, RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL WATER MAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY THE VILLAGE OF PALATINE (847-202-6963) AND THE PROJECT ENGINEER (847-478-9700) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED
- PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.
- CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
- ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONCRETE MEETING REQUIREMENTS OF SECTION 1020. ALL SIDEWALKS, CURBS AND POST FOUNDATIONS SHALL BE CLASS SI 3,500 PSI @ 14 DAYS. ALL PAVEMENT SHALL BE CLASS PV 3,500 PSI @ 14 DAYS. WHERE NOTED ON THE PLANS HIGH EARLY CONCRETE SHALL BE CLASS PV TYPE III 3,500 PSI CONCRETE @ 3 DAYS. ALL CONCRETE REQUIRING A CURE TIME FASTER THAN 3 DAYS SHALL HAVE A MIX DESIGN SUBMITTED TO THE ENGINEER FOR APPROVAL. WHEN REQUIRED BY THE MUNICIPALITY, FLY ASH SHALL NOT BE USED IN THE MIX DESIGN. SLUMP SHALL BE 2-4" AND AIR CONTENT SHALL BE BETWEEN 5-8% UNLESS MODIFIED BY ARTICLE 1020.04.
- ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FORTY-FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.
- UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
- ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
- ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698)
- SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.
- ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ILLINOIS SUPPLEMENT OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.
- ALL SIGNAGE NOT ATTACHED TO SIGNAL OR LIGHTING POLES SHALL BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORTS WITH BREAKAWAY BASES IN ACCORDANCE WITH SECTION 728.
- ALL SIGNAGE SHALL HAVE TYPE ZZ SHEETING.

SPECIAL PROVISIONS

CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) MATERIAL DISPOSAL

WORK UNDER THIS ITEM SHALL BE PERFORMED IN COMPLIANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) GUIDELINES IN EFFECT AT THE TIME OF CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO MAKE ALL ARRANGEMENTS FOR COORDINATION AND SUBMISSION OF THE NECESSARY DOCUMENTS WITH THEIR CHOSEN CCDD OR OTHER SUITABLE DISPOSAL FACILITY. WRITTEN CONFIRMATION OF PRELIMINARY APPROVAL MUST BE PROVIDED FROM THE DISPOSAL FACILITY AND CONFIRMED BY THE OWNER AS ACCEPTABLE. ALL SURPLUS, CLEAN MATERIAL GENERATED FROM THE CONTRACTOR'S ACTIVITIES MUST BE DISPOSED OF AT AN IEPA PERMITTED CCDD OR OTHERWISE ACCEPTABLE FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DOCUMENTATION TO THE OWNER FOR EACH LOAD HAULED OFF-SITE SHOWING THE QUANTITY OF MATERIAL AND THE LOCATION THE MATERIAL WAS DISPOSED OF. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES INCURRED COMPLYING WITH THESE REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DELAYS, INCONVENIENCE, OR INTERRUPTIONS IN THE WORK RESULTING FROM COMPLIANCE WITH THESE REQUIREMENTS. ALL COSTS ASSOCIATED WITH MATERIAL TESTING AND DISPOSAL SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

AS-BUILT DOCUMENTS

THE CONTRACTOR IS REQUIRED TO SUBMIT "AS-BUILT PLANS", i.e. - RECORD DRAWINGS OF ALL PROJECTS THAT INCLUDE THE INSTALLATION OF STORM SEWER, SANITARY SEWER, WATERMAIN AND WATER SERVICES, STORMWATER MANAGEMENT FACILITIES AND SITE GRADING. THE EXISTING ELEVATIONS SHALL BE LINED-THROUGH AND THE AS-CONSTRUCTED GRADES WRITTEN NEXT TO THEM. THE "AS-BUILT PLANS" MUST BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR AND/OR A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO GHA FOR REVIEW. THE AS-BUILT PLANS SHALL FURTHER:

- SHOW THE RIM AND INVERT ELEVATIONS FOR ALL MANHOLES, CATCH BASINS, INLETS AND FLARED END SECTIONS.
- WHEN SURFACE DETENTION IS PROVIDED ON A PAVED SURFACE SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME AND HIGH-WATER ELEVATION WAS ACHIEVED.
- WHEN SURFACE DETENTION IS PROVIDED IN A DETENTION OR RETENTION POND, SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME WAS ACHIEVED. THE AS-CONSTRUCTED GRADES SHALL INCLUDE THE TOP OF THE BERM AND EMERGENCY OVERFLOW.
- RESTRICTOR STRUCTURES SHALL BE LOCATED AND THE SIZE, TYPE AND ELEVATION OF THE RESTRICTOR SHALL BE PROVIDED ALONG WITH ANY INTERIOR OVERFLOW WEIRS, LOW-FLOW NOTCHES, ETC.

PARTICULAR CARE SHALL BE GIVEN TO INSTALLATION OF ALL IMPROVEMENTS WITHIN THE ADA ROUTES INCLUDING RAMPS, LEVEL LANDINGS, TRANSITION PANELS, CURBS AND TACTILE SURFACES. THE CONTRACTOR SHALL ENSURE THAT ALL CROSS SLOPES AND LANDINGS DO NOT EXCEED 2% EXCEPT IN CHICAGO WHICH CANNOT EXCEED 1.56%. RUNNING SLOPES ON ADA ROUTES GREATER THAN 5% REQUIRE HANDRAILS. THE CONTRACTOR SHALL INFORM THE ENGINEER WHEN THE STATED SLOPES ARE EXCEEDED IN THE FIELD

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GENERAL NOTES
SITE IMPROVEMENTS - BIRCHWOOD PARK
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.212-DT1.dwg	GHA PROJECT #
DRAWN BY: EJS	5241.212
DATE: 04-11-19	
CHECKED BY: DED	SCALE:
DATE: 04-11-19	N.A.

SHEET NUMBER:
X
OF XX SHEETS

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * VILLAGE OF _____ MUNICIPAL CODE;
 * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
- THE VILLAGE OF _____ ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS _____ FT.
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350	ASTM D-3261, F-2620 (HEAT FUSION)
	ASTM D-3035	ASTM D-3212, F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE-TONGUE AND RUBBER GASKET TYPE JOINTS.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMANS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.



TECHNICAL GUIDANCE MANUAL
MWRD GENERAL NOTES

07/12/2016

STD. DWG. NO. 18

PAGE NO. 19

GHA GEWALT HAMILTON ASSOCIATES, INC.
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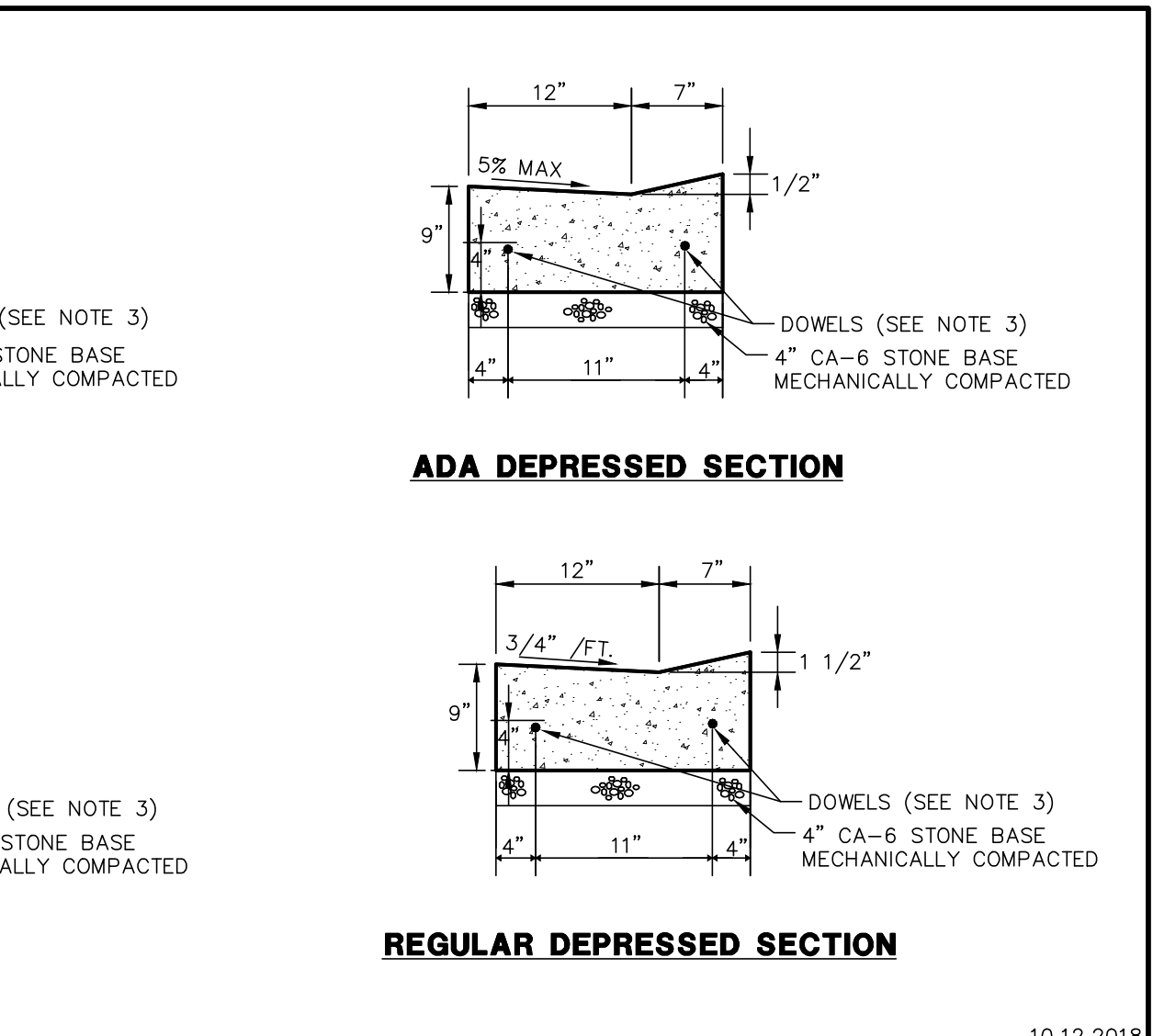
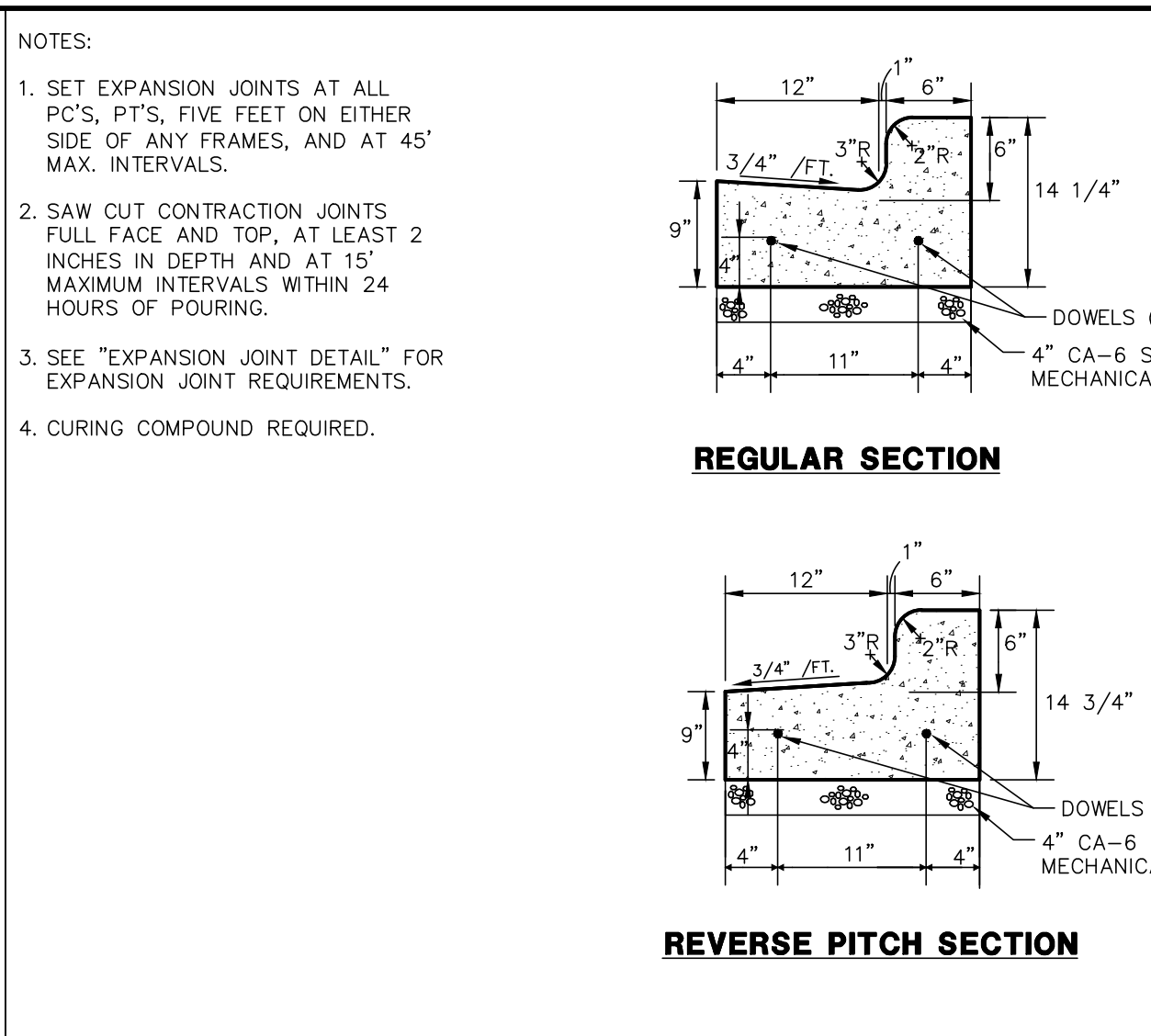
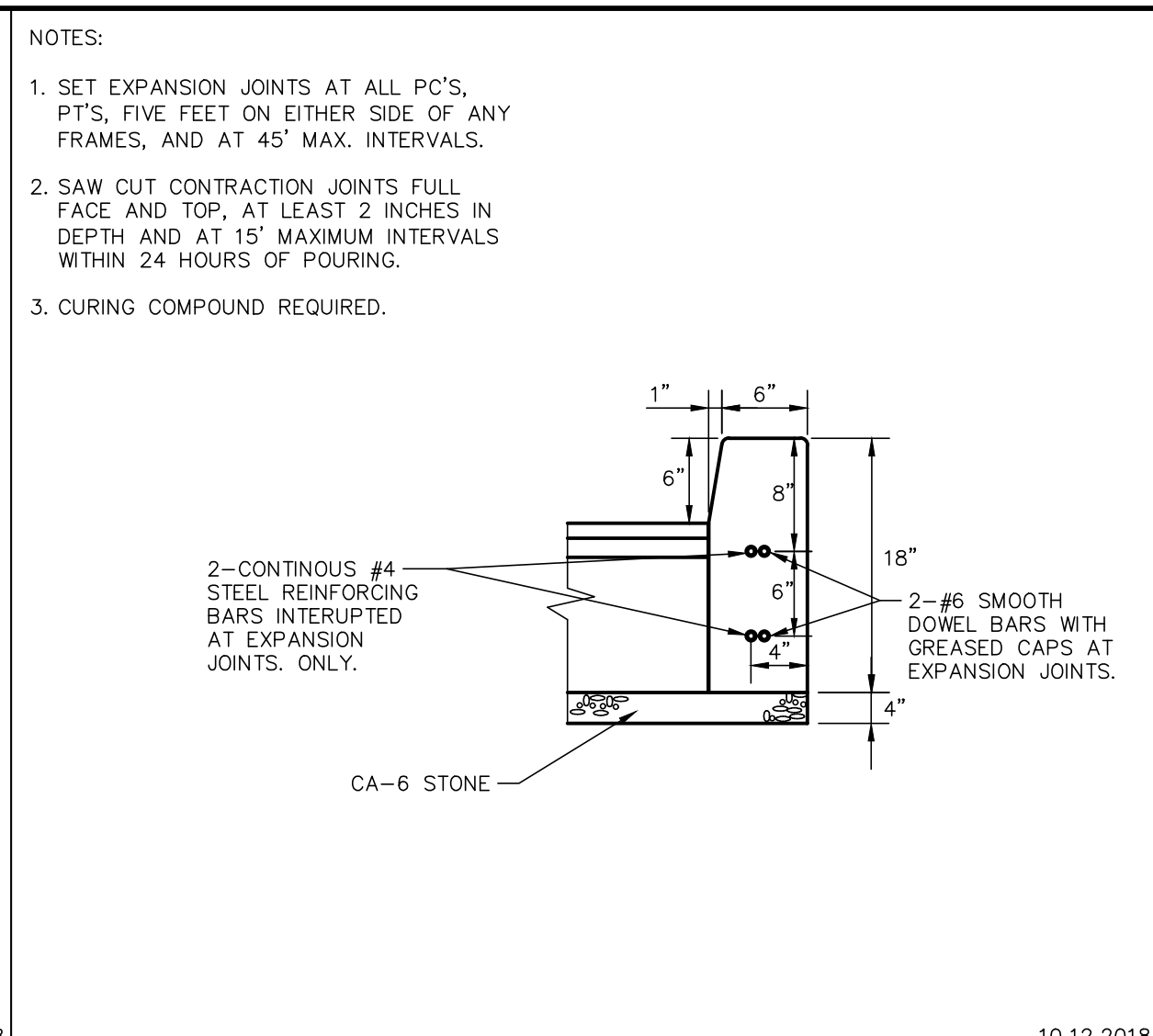
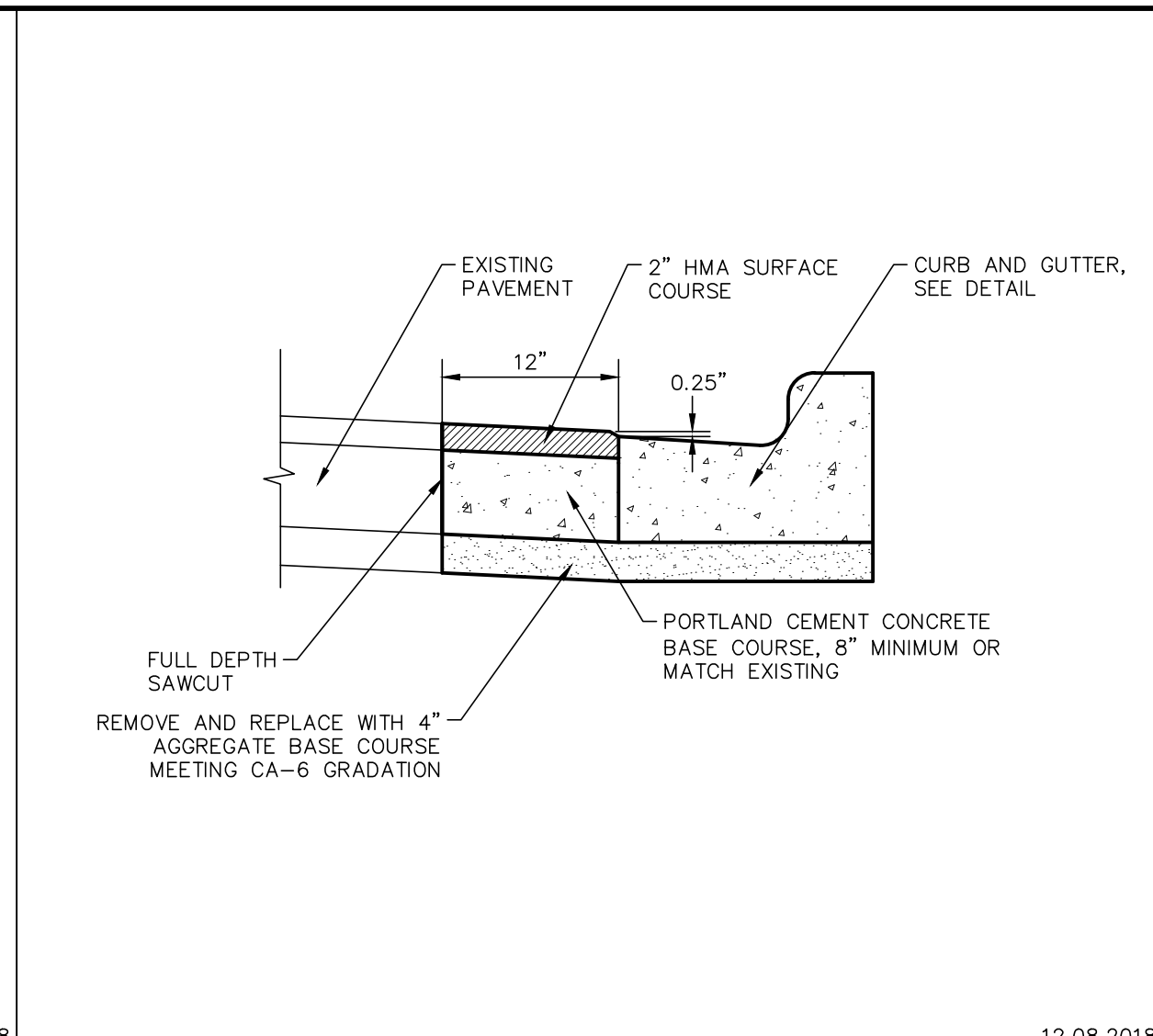
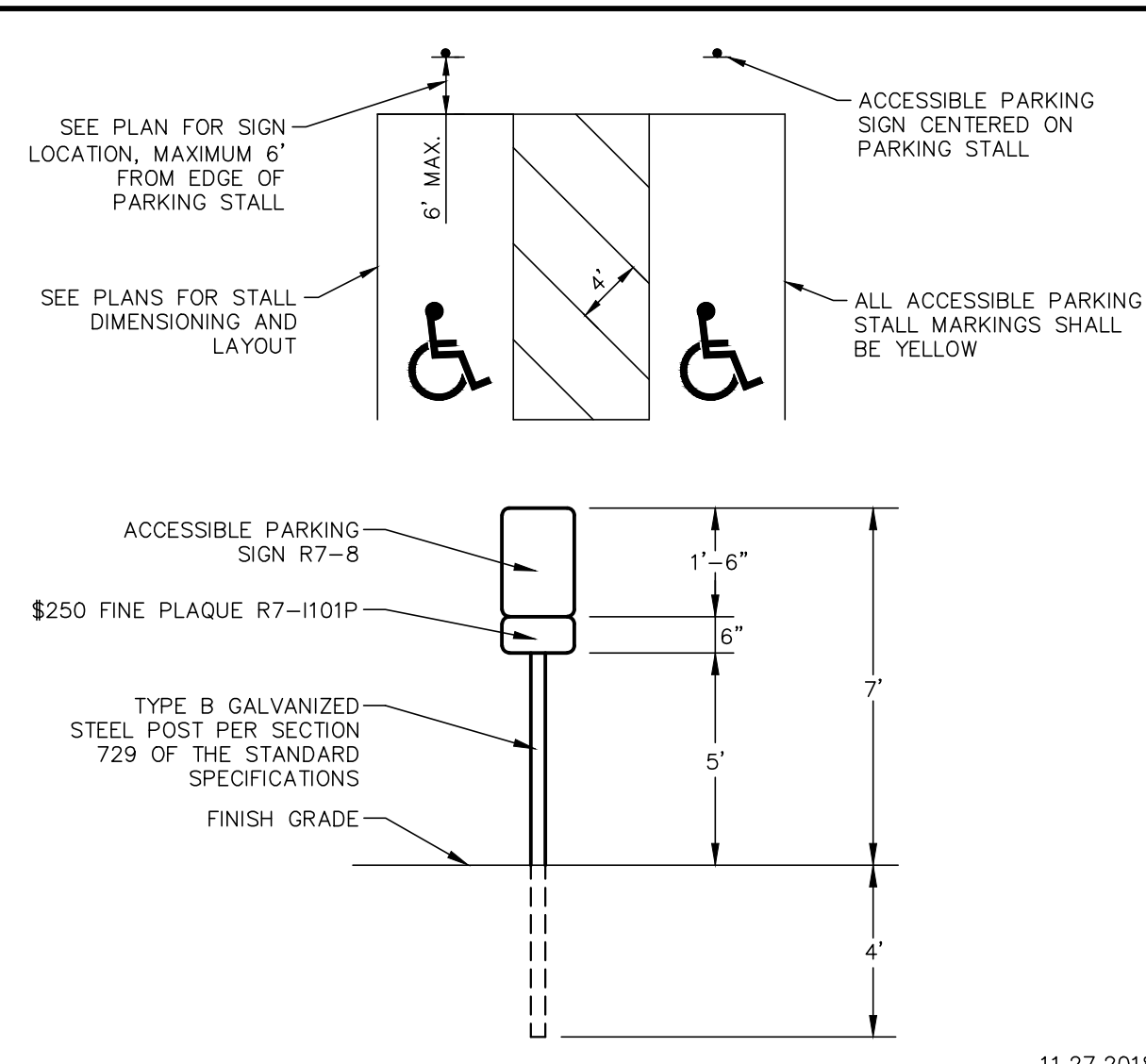
MWRD GENERAL NOTES
SITE IMPROVEMENTS - BIRCHWOOD PARK
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.212-DT1.dwg	SHEET NUMBER:
DRAWN BY: EJS DATE: 04-11-19	GHA PROJECT # 5241.212
CHECKED BY: DED DATE: 04-11-19	SCALE: N.A.
	OF XX SHEETS

X

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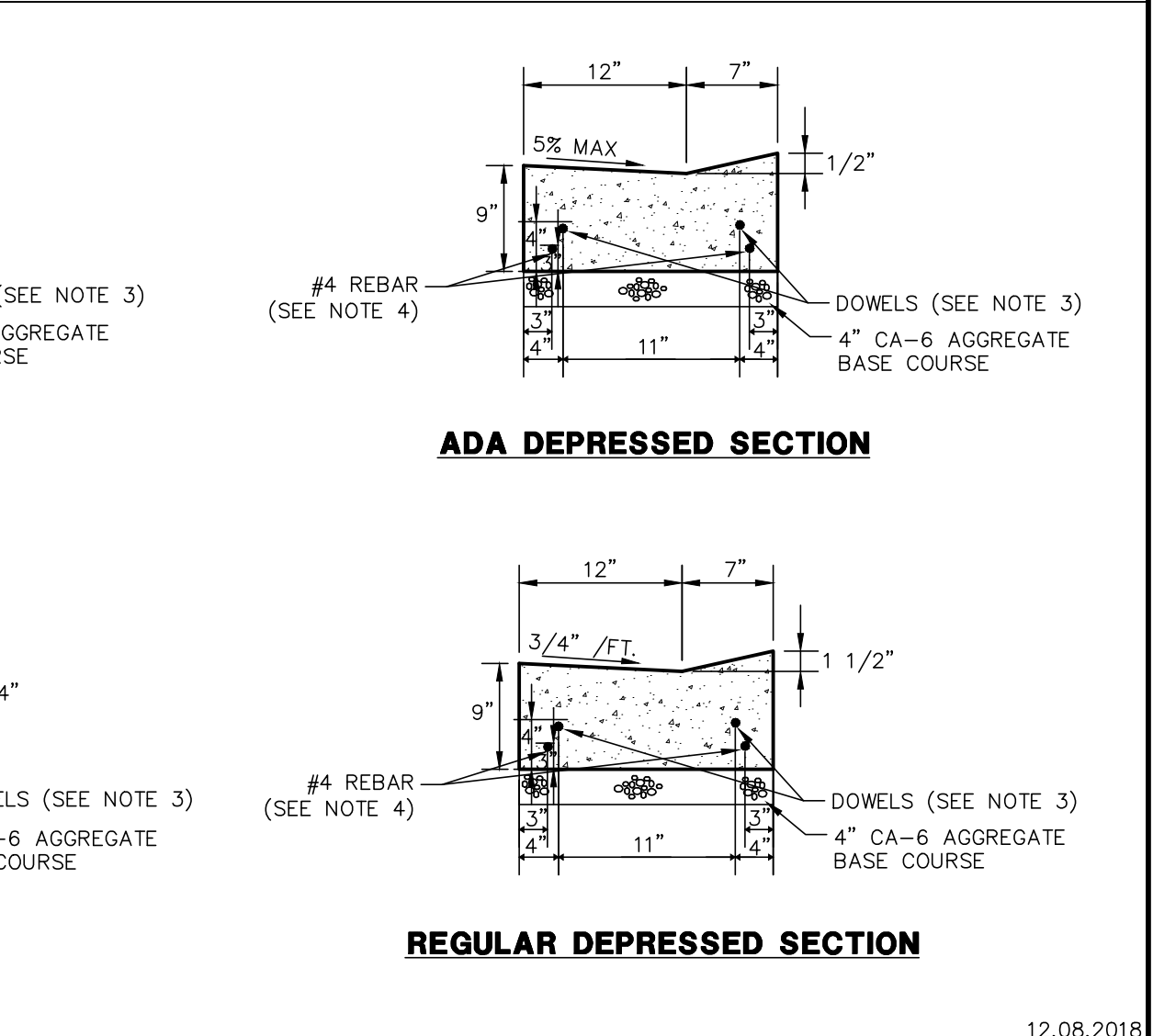
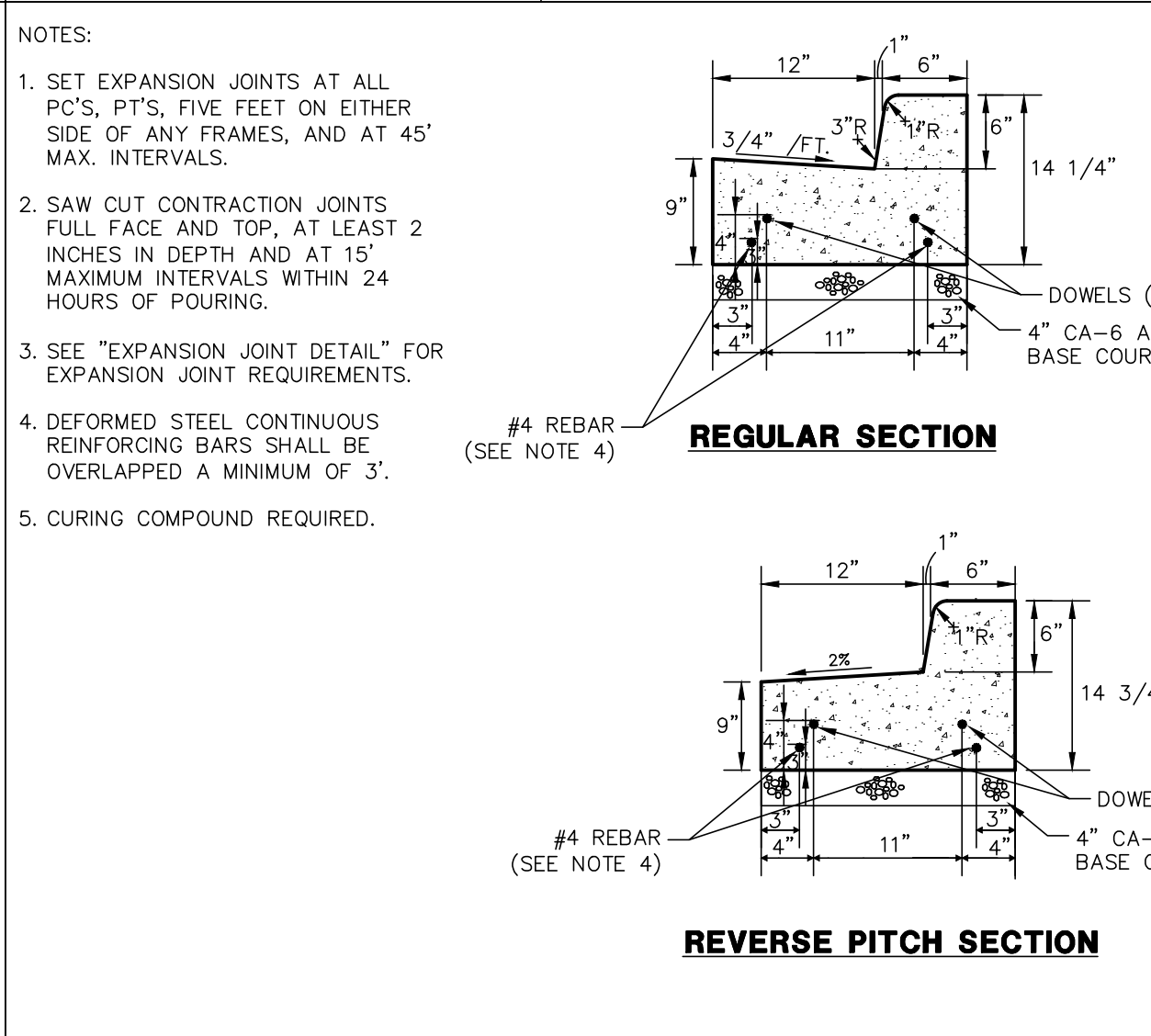
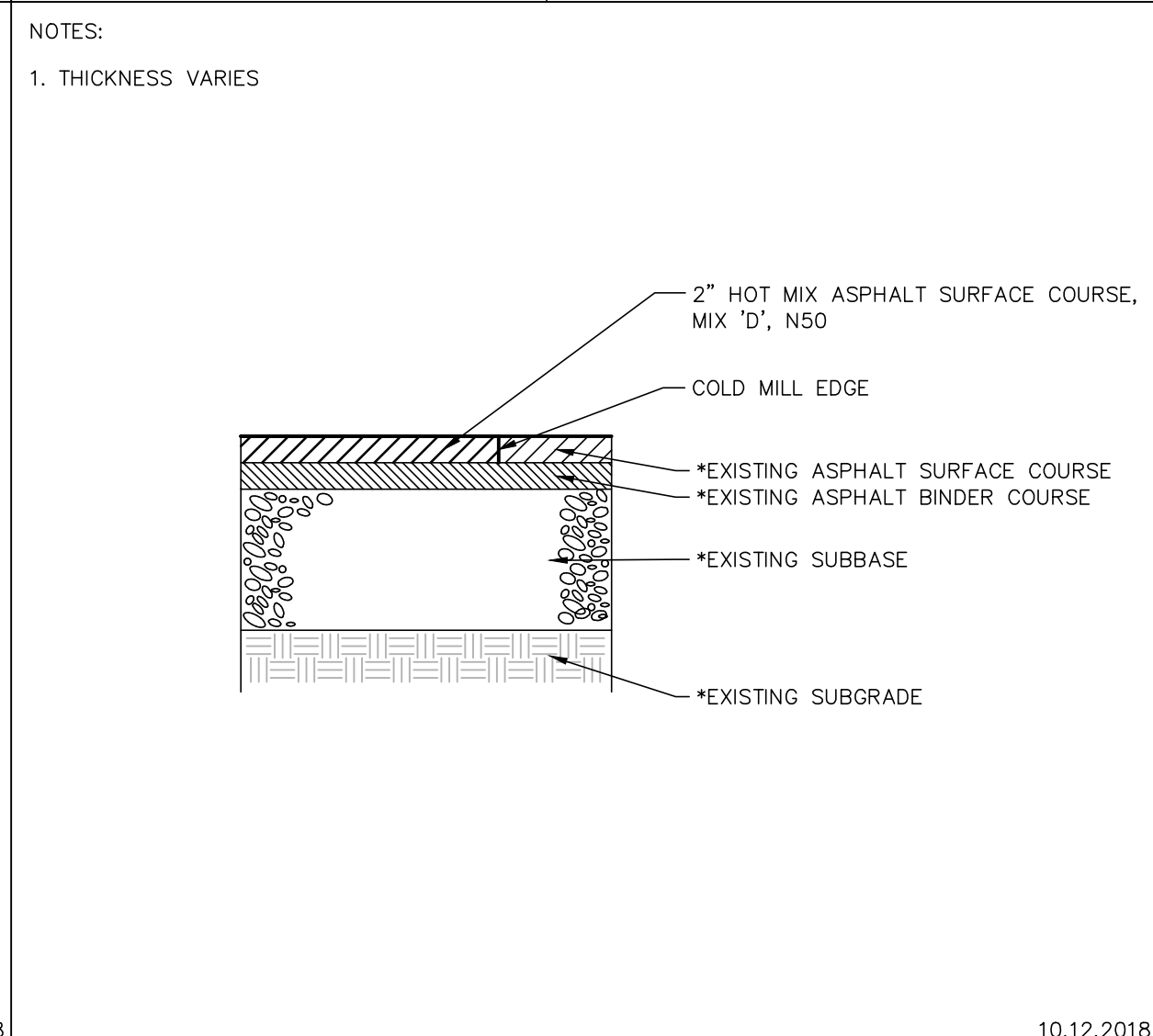
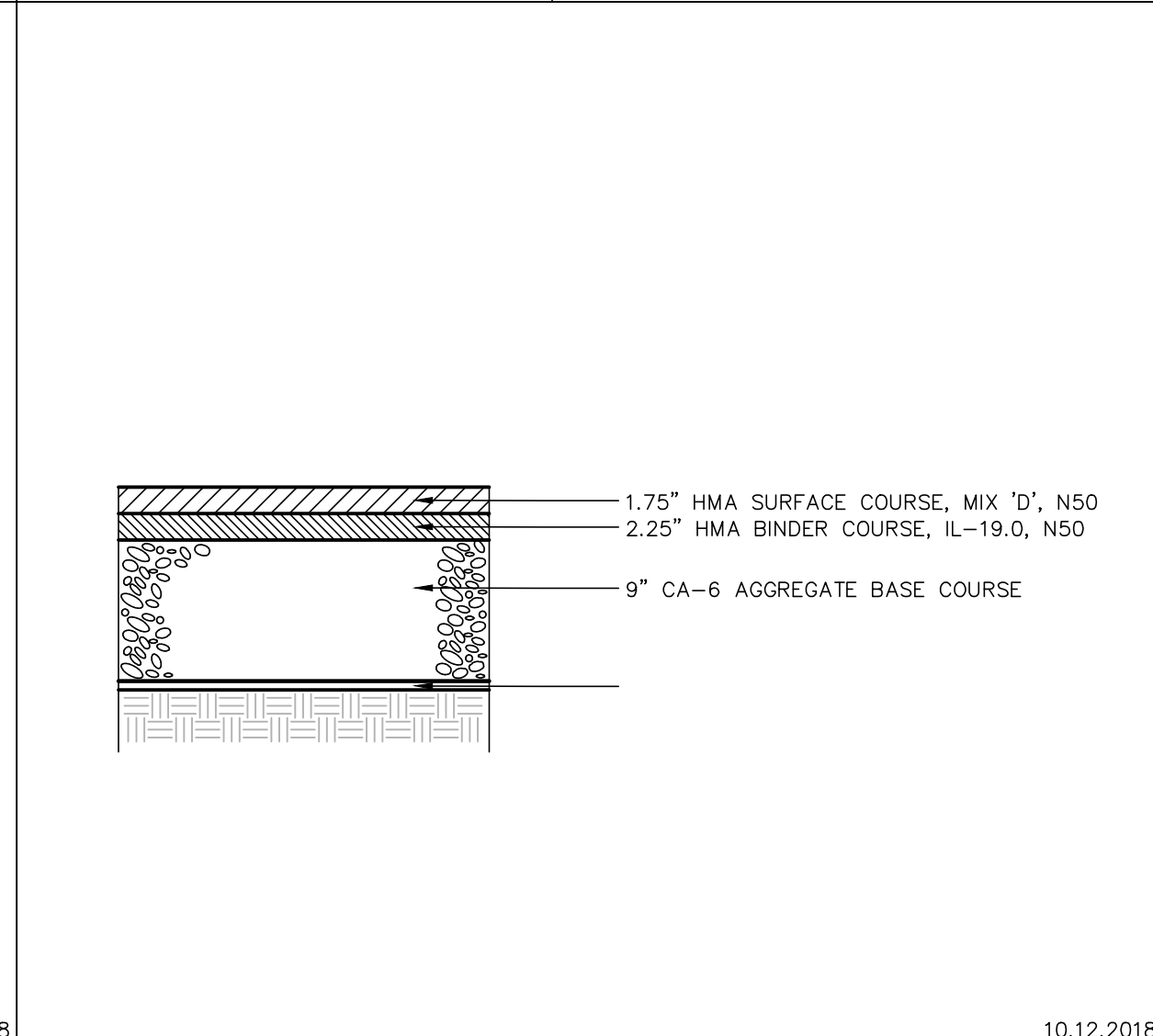
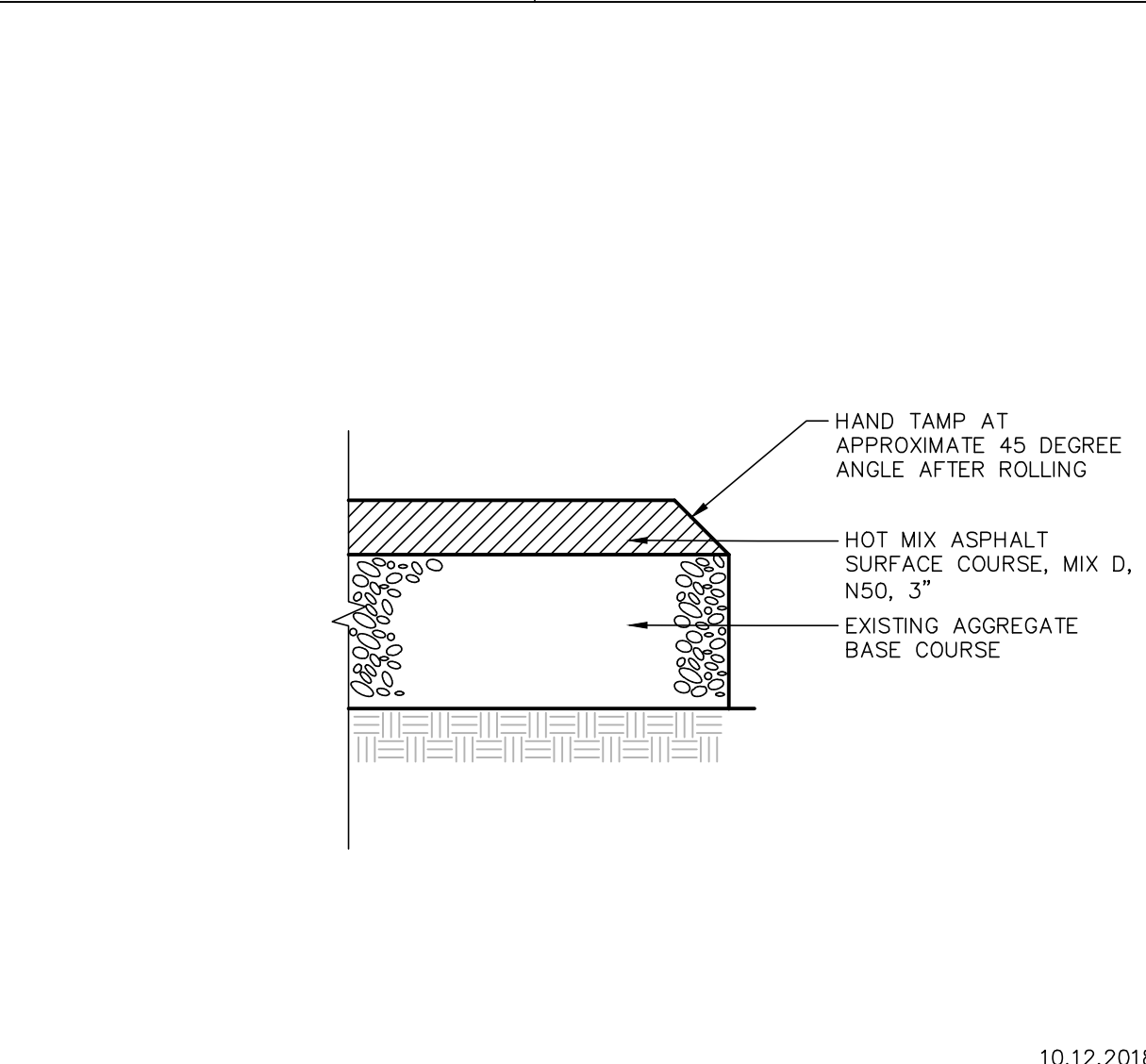
GHA GEWALT HAMILTON ASSOCIATES, INC. ACCESSIBLE PARKING DETAIL

GHA GEWALT HAMILTON ASSOCIATES, INC. PAVEMENT PATCH FOR NEW CURB INSTALLATION

GHA GEWALT HAMILTON ASSOCIATES, INC. VERTICAL CURB

GHA GEWALT HAMILTON ASSOCIATES, INC. B6.12 CURB & GUTTER

GHA GEWALT HAMILTON ASSOCIATES, INC. B6.12 CURB & GUTTER



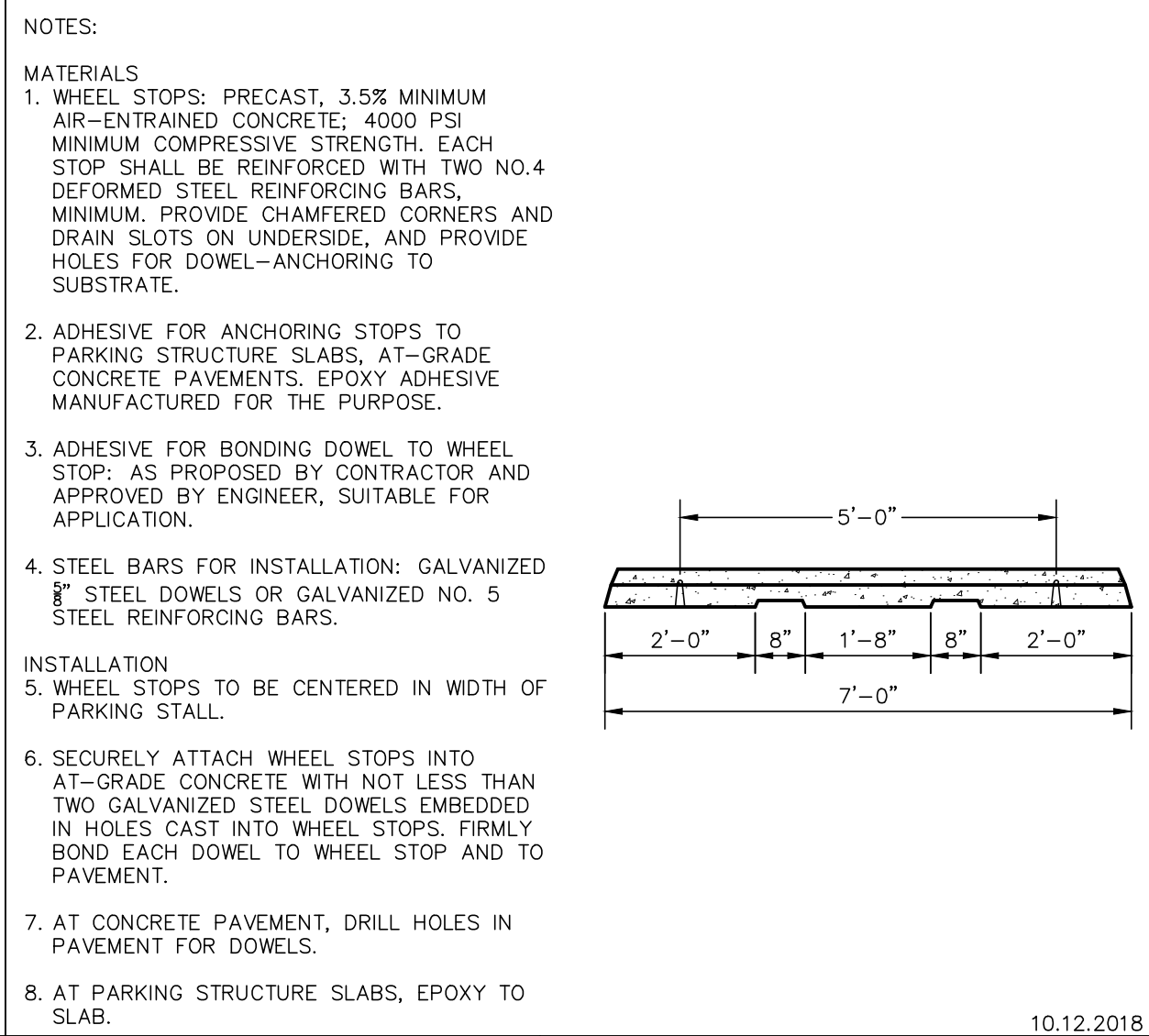
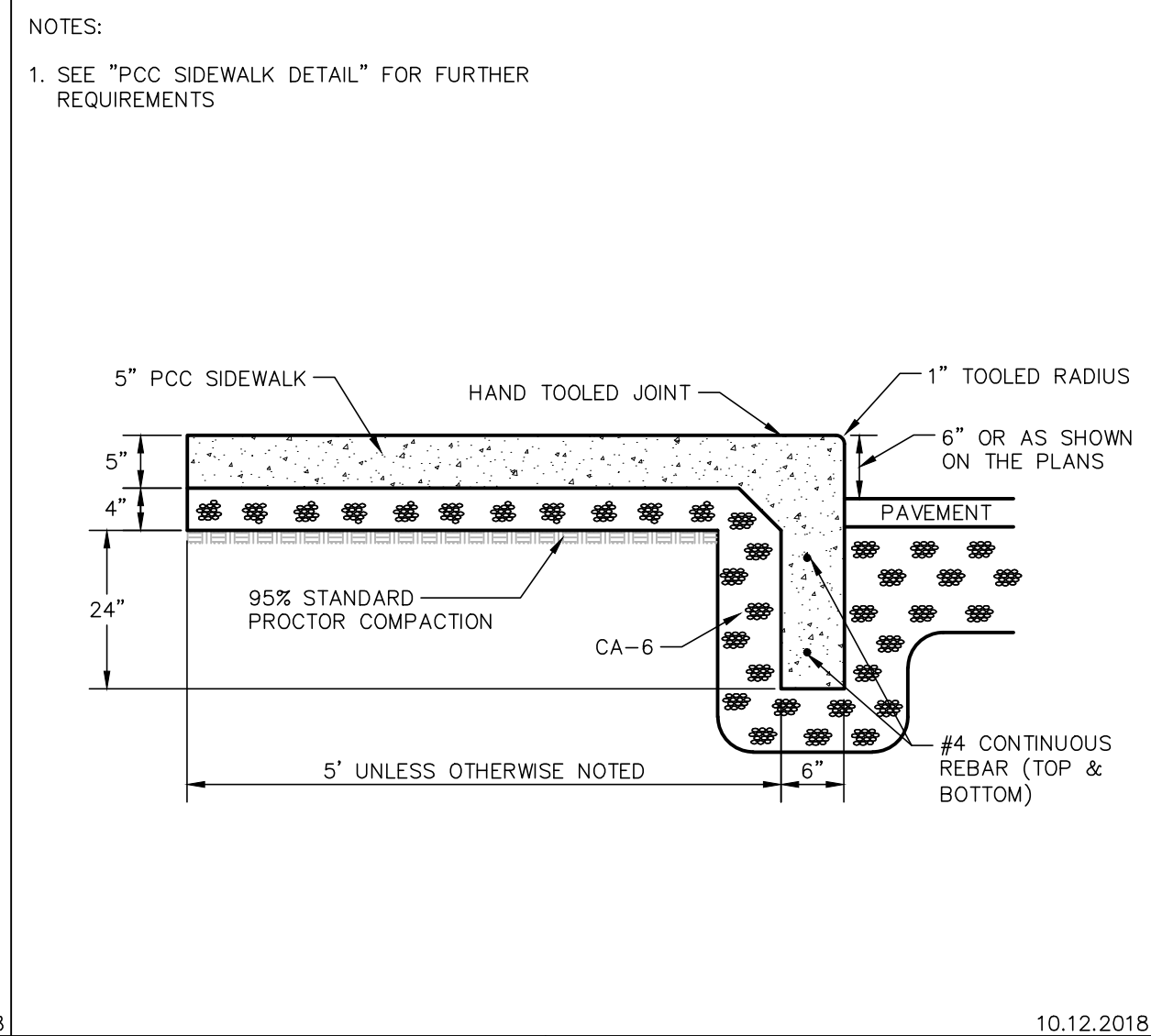
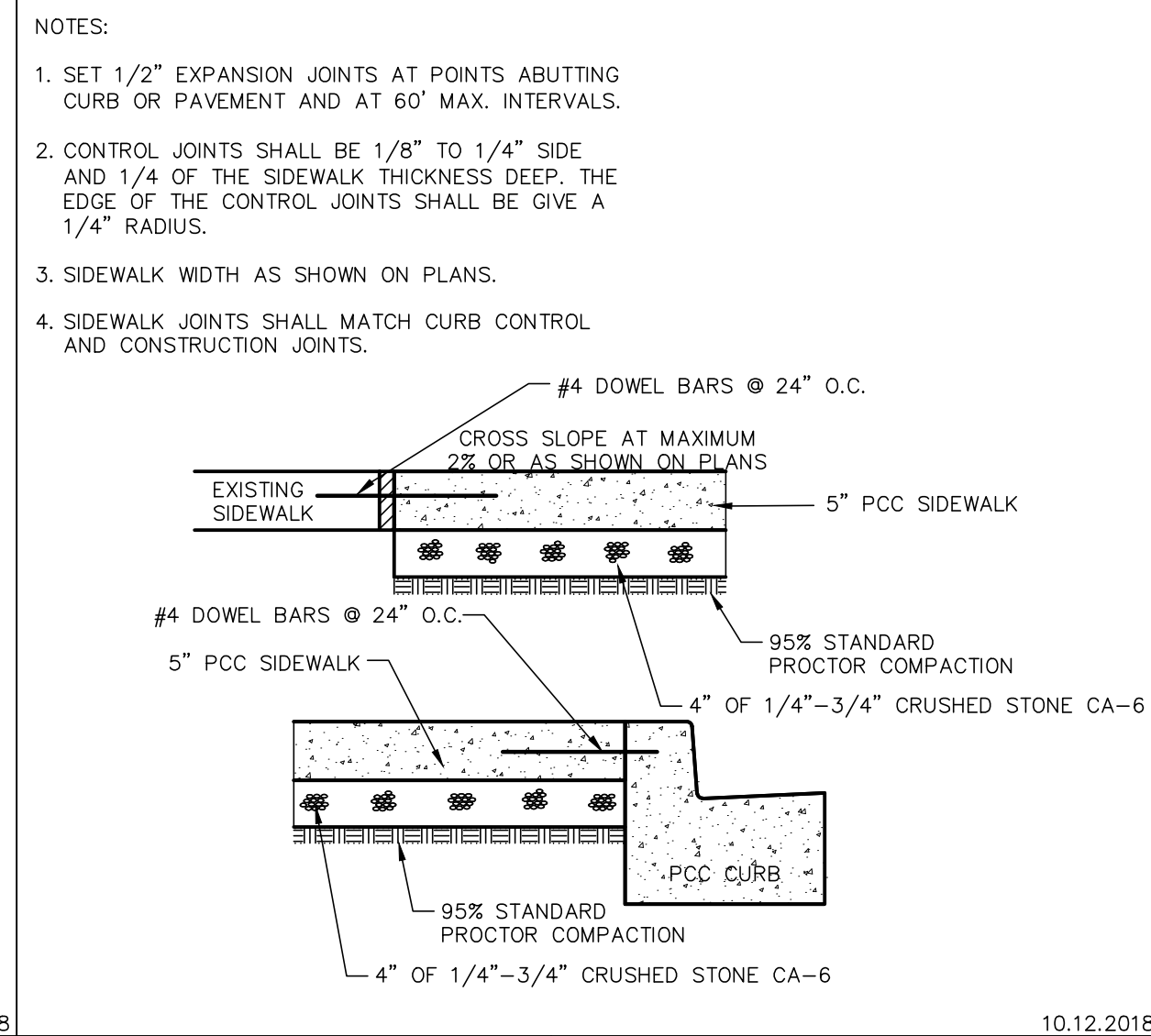
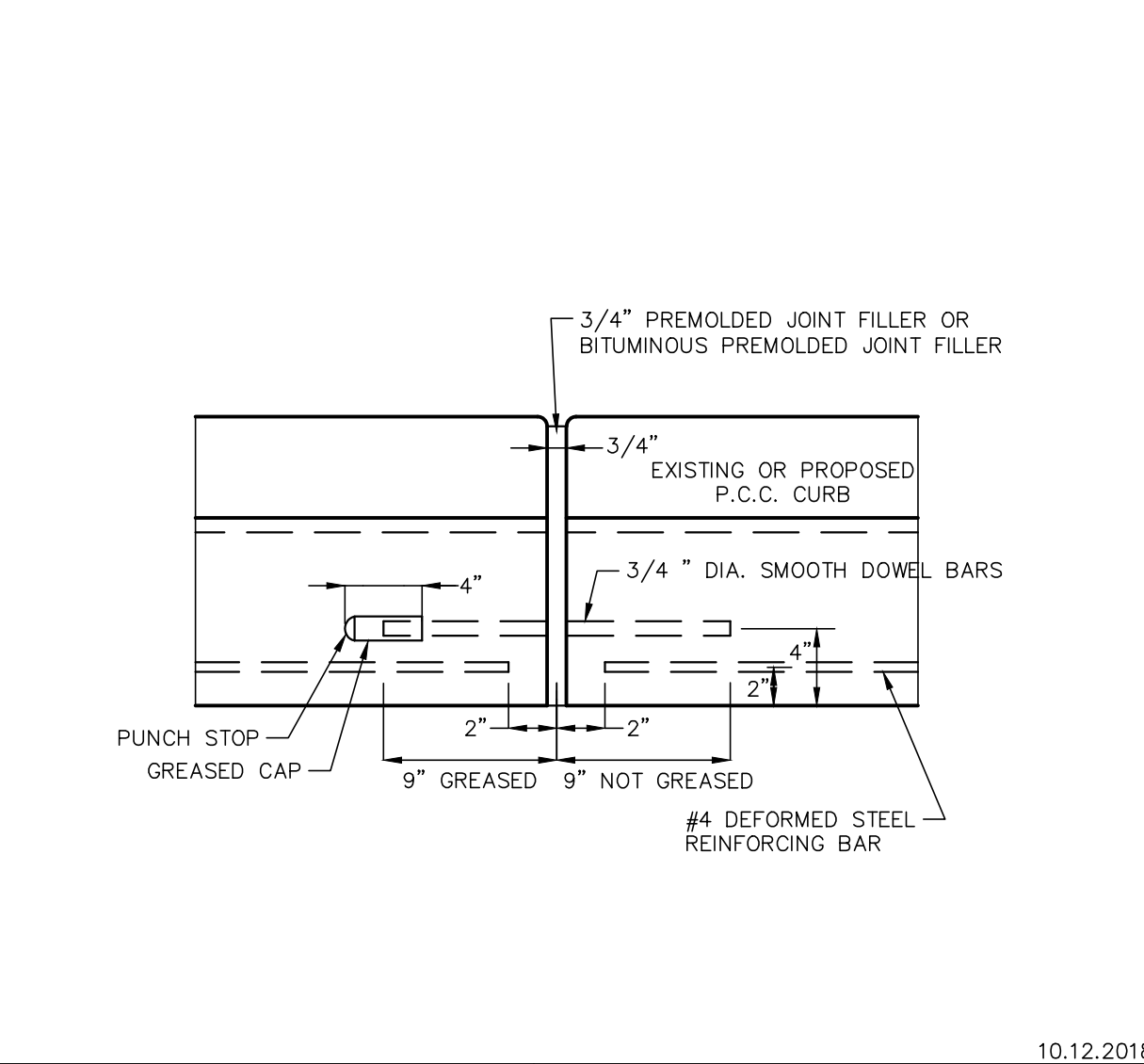
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GHA GEWALT HAMILTON ASSOCIATES, INC. LIGHT DUTY PAVEMENT DETAIL

GHA GEWALT HAMILTON ASSOCIATES, INC. HMA SURFACE PATCH DETAIL

GHA GEWALT HAMILTON ASSOCIATES, INC. B6.12 CURB & GUTTER WITH CONTINUOUS REBAR

GHA GEWALT HAMILTON ASSOCIATES, INC. B6.12 CURB & GUTTER WITH CONTINUOUS REBAR



GHA GEWALT HAMILTON ASSOCIATES, INC. EXPANSION JOINT DETAIL

GHA GEWALT HAMILTON ASSOCIATES, INC. PCC SIDEWALK DETAIL

GHA GEWALT HAMILTON ASSOCIATES, INC. MONOLITHIC VERTICAL CURB

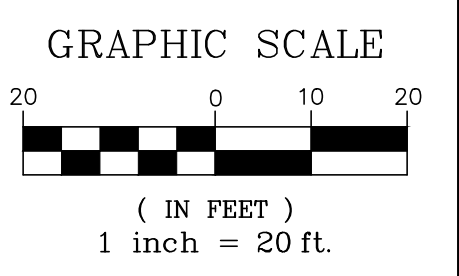
GHA GEWALT HAMILTON ASSOCIATES, INC. WHEEL STOP

GHA GEWALT HAMILTON ASSOCIATES, INC. WHEEL STOP

Provide calc's for ADA as % of lot pavement using boundaries 1, 1+2, & 1+2+3

GEOMETRIC & UTILITY LEGEND ADA Lot Coverage 2020-08-20

- BITUMINOUS PAVEMENT
 - HMA SURFACE COURSE MIX D, N50
 - PCC SIDEWALK
 - TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH SEEDING, CLASS 1A MULCH, METHOD 3A
 - 12" CA-7 STONE FURNISH AND PLACE 11" ENGINEERED SOIL* FURNISH AND PLACE SEEDING, CLASS 4A & MULCH, METHOD 3A
 - STONE RIP RAP, CLASS A1
 - EROSION CONTROL BLANKET NAG C350 (PERMANENT)
 - DETECTABLE WARNINGS
 - B6.12 CURB & GUTTER (REGULAR)
 - B6.12 CURB & GUTTER (ADA DEPRESSED)
 - B6.12 CURB & GUTTER (REVERSE PITCH)
 - BARRIER CURB
 - BARRIER CURB (ADA DEPRESSED)
 - INTEGRATED SIDEWALK/CONCRETE CURB
 - PROPOSED STORM SEWER
 - PROPOSED STORM UNDERDRAIN
- EXISTING PROPOSED
- STORM CATCHBASIN
 - FLARED END SECTION
 - SIGN



*ENGINEERED SOIL MUST BE TESTED FOR TEXTURE, PH AND ORGANIC MATTER PRIOR TO DELIVERY

OVERALL SOIL TEST PARAMETERS

- MAXIMUM 5% CLAY CONTENT
- MINIMUM 30% ORGANIC MATTER
- pH AT 7.0 +/- 0.5
- MAXIMUM SOLUBLE SALTS 500 PPM

ENGINEERED SOIL

- 30% TOPSOIL
- 30% COMPOST
- 40% FA-2 SAND
- UNIFORMLY MIXED

PROVIDE TEST RESULTS TO PROJECT ENGINEER PRIOR TO DELIVERY

GEOMETRIC AND PAVING PLAN

1. All pavement dimensions are to edge of pavement, unless otherwise noted. E=edge of pavement, B=back of curb, F=face of curb. Radii dimensions are to back of curb.
2. Install all curb and sidewalk as shown. Note some curbs require reverse pitch gutter. Dowel new sidewalk and curb to existing and proposed curbs per general notes. When constructing a carriage walk, the proposed sidewalk contraction and expansion joints shall align with existing curb joints.
3. Provide 1.90% cross slope and 4.5% maximum longitudinal slope on all sidewalks and pedestrian path ways unless otherwise indicated. Illinois accessibility code requires a maximum constructed cross slope of 2.00% and longitudinal slope of 5.00%.
4. Install bituminous pavement as shown. Refer to detail sheet for specific pavement sections and general note sheet for construction, testing and compaction requirements.
5. Install PCC pavement as shown. Refer to detail sheet for specific pavement section and general notes for construction, testing and compaction requirements.
6. All parking lot stall markings shall be 4" Yellow paint and all other parking lot pavement markings shall be paint, color as noted, in accordance with Section 780 of the IDOT Standard Specifications. (Two single applications, 16 mils each required). Site pavement marking shall be coordinated with Site engineer. Contractor shall notify site engineer 48 hrs prior to installing pavement marking.
7. For handicapped stall markings, refer to Handicapped Parking Stall and Sign Dimensioning Detail.
8. Install new signs and handicapped parking signs using 2" galvanized square tube post and telescoping post sleeve per IDOT standard.
9. For final restoration, the contractor shall be responsible for restoring all disturbed turf areas and proposed turf areas as follows:
 - a. Prior to placement of topsoil restoration area subgrade material shall be rototilled and re-compacted to a maximum of 80% standard proctor to a depth of 6."
 - b. Spread a minimum of 6" of existing site salvaged screened topsoil or new pulverized topsoil on all disturbed areas. Compact to 80% standard proctor.
 - c. Topsoil must be free of litter, brush, rocks and earth clods of greater than 1 inch in any dimension. Contain between 1%-10% organic matter, 12%-50% clay, and less than 55% sand content. pH shall be between 6.0 and 8.0.
 - d. Seed restoration areas as follows:
 - IDOT Class 1A seed. (Lawn mixture)
 - IDOT Class 4A seed. (Native Grass)
 - Fertilizer shall be applied following IDOT requirements.
 - Erosion control blanket shall be North American Green S75 or approved equal installed following manufacturer guidelines.
 - e. Contractor shall be responsible for watering the restored area per IDOT specifications for a duration of 30 days prior to the Owner's final review and acceptance. If restoration has not shown a catch or uniform stand, the contractor shall repeat reseeding or resodding until a uniform stand is achieved.
13. Once restoration has been completed, the contractor shall remove erosion control devices. Silt fence trenches shall be backfilled and restored in kind. Storm structures shall be cleaned of debris.
14. Hot mix Asphalt (HMA) paving - After passing proof roll, the contractor shall string line the parking lot. Any areas that do not meet minimum pavement cross slope (1.0%) will be corrected, re-compacted and re-proof rolled.

Boundary 1

Boundary 2

Boundary 3

Parking Lot Areas- 35,064 SF
N Lot Boundary 1 - 14,878 SF
Entrance Boundary 2 - 6,720 SF
E Lot Boundary 3 - 4,677 SF
ADA Area - 912 SF
ADA % of N Lot - 6.13%
ADA % of N Lot + Entrance - 4.22%
ADA % of N Lot + Entrance + E Lot - 3.47%

UTILITY PLAN NOTES

1. The contractor shall verify the exact location and elevation of existing utilities prior to initiating work. Any discrepancies found between the information noted on the plans and actual field conditions, or any conflicts with proposed improvements shall be reported to the engineer immediately. The contractor shall not proceed any further until given written clarification on how to proceed.
2. Install storm sewer as shown. Refer to Storm Sewer requirement table on General Notes Sheet for pipe material, joint, frame and grate, stone bedding and testing requirements.
3. Contractor shall provide the following as-constructed documents at the conclusion of the project:
 - a. Storm Sewer
 - As-constructed locations of structures, service connections, cleanouts.
 - Rim and invert elevations.
4. Contractor shall ensure positive drainage to all inlets and catchbasins. Areas of surface ponding shall be corrected by the contractor at no additional expense to the Owner.
5. Drainage, sewer and valve vault rims shall be flush with adjacent finished grades. All rim elevation of structures shall be adjusted to finished grade of roadways, island, curblines, etc. If a conflict exists, notify engineer prior to final adjustment of structure elevation.

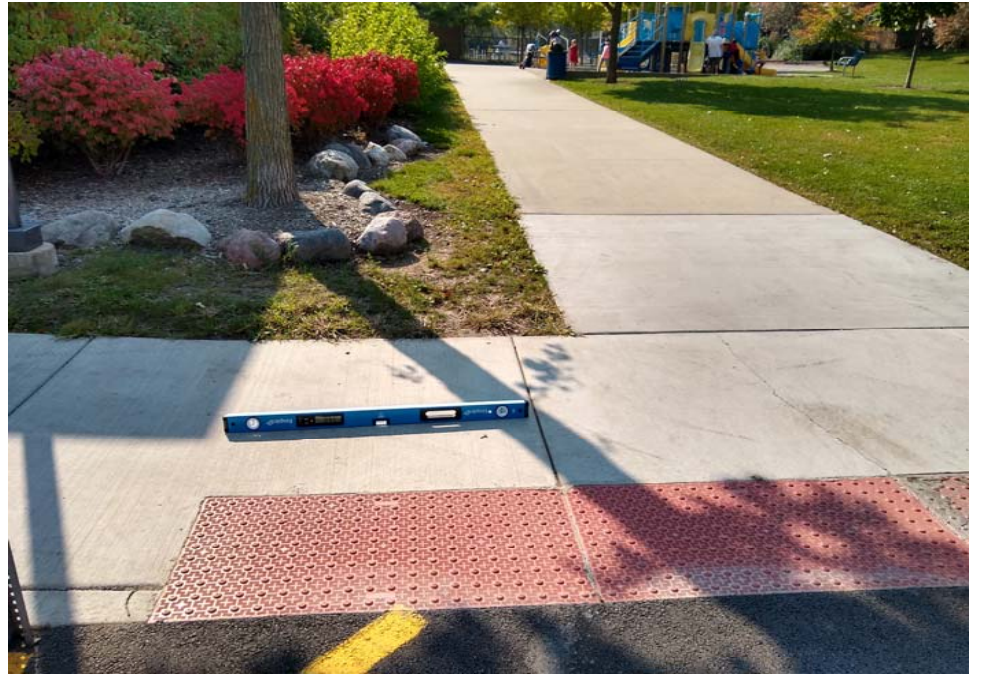
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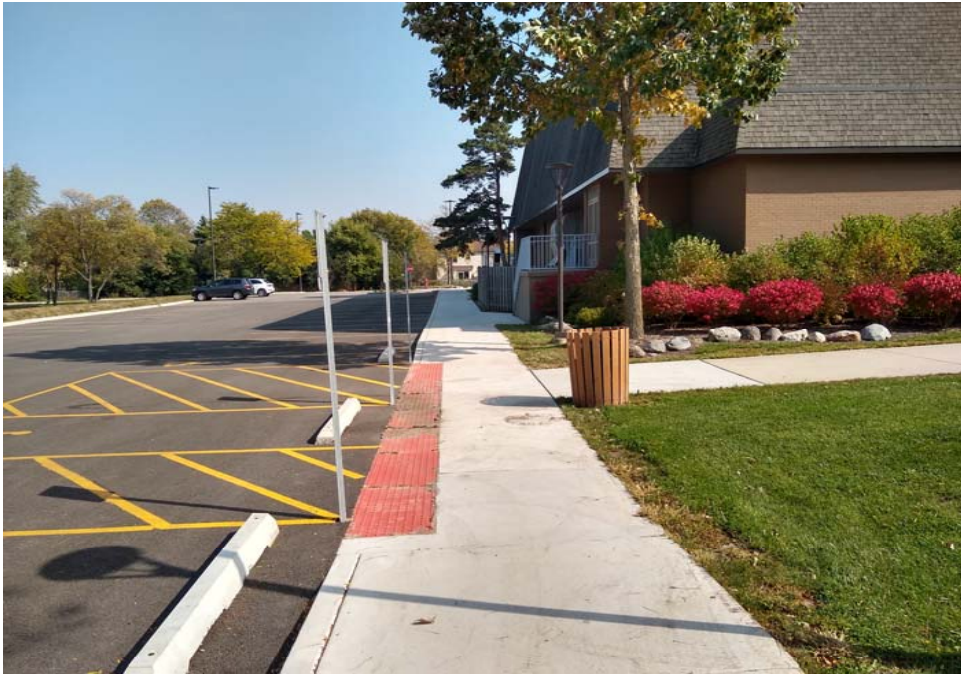
GEOMETRIC/UTILITY PLAN

**BIRCHWOOD PARK
PALATINE PARK DISTRICT
PALATINE, ILLINOIS**

FILE: 5241.212_PRL.dwg		SHEET NUMBER: 3	
DRAWN BY: EJS	GHA PROJECT # 5241.212		
DATE: 06-21-19	SCALE: 1"=20'		
CHECKED BY: DED	DATE: 06-21-19		
NO. BY DATE	REVISION	NO. BY DATE	REVISION
1 EJS 09-03-19	PER MWRD COMMENTS/ADDENDUM #1		







BW North Parking lot

Direct Costs

Concrete sidewalk	\$ 30,000.00	
Detectable warnings	\$ 1,500.00	
Parking blocks	\$ 2,200.00	
Handicapped signs	\$ 1,000.00	
		\$ 34,700.00

Percentage of paving

Total project bid			<u>\$ 269,690.86</u>		
Adjusted Bid total without direct ADA Costs			<u>\$ 234,990.86</u>		
	TL SF	ADA SF			
Area 1	14,878.00				
Area 2	6,720.00				
Area3	<u>4,677.00</u>				
TL SF	<u>26,275.00</u>	912.00	\$ 234,990.86	3.47%	\$ 8,154.18

\$ 42,854.18

Project Type (From ab Project Category (From Above)	Media File #/Name	Project Category Cost	ADA Portion of Project Cate	% ADA Dollars Requested
Accessible Routes & S Routes & parking	1-20	269690	42854.18	15.89%
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Total Project Cost	269690			
Total ADA Portion of Project Cost	42854.18			
Total % of ADA Dollars Requested	15.89%			