

Project Location **Juniper Park** 11/01/2018
by **Jim Holder** in **Member District ADA Project Request** id. 11510399
ADAProjects@palatineparks.org

Original submission 11/01/2018

Name **Ed Tynczuk**

Job Title **Superintendent of Parks**

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

Phone Number **847-705-5140**

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 baseball field shelter and playground from the parking area.**

Items that will become ADA Compliant **Pathway into the park**

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

[5241b_Palatine_Trail_Juniper_Park_Eng_Plans_07-05-18_1.pdf](#)

[20181024_080436.jpg](#)

[20181024_080427.jpg](#)

[20181024_080420.jpg](#)

[20181024_080336.jpg](#)

[20181024_080236.jpg](#)

[20181024_080233.jpg](#)

[20181024_080207.jpg](#)

[20181024_080203.jpg](#)

[JuniperADACostsbid.pdf](#)

Budget Table for ADA Related Expenses

[a397ca9d-7186-4114-8a15-eb9bd94dcefc.xlsx](#)

ADA Dollars Requested	27426.80
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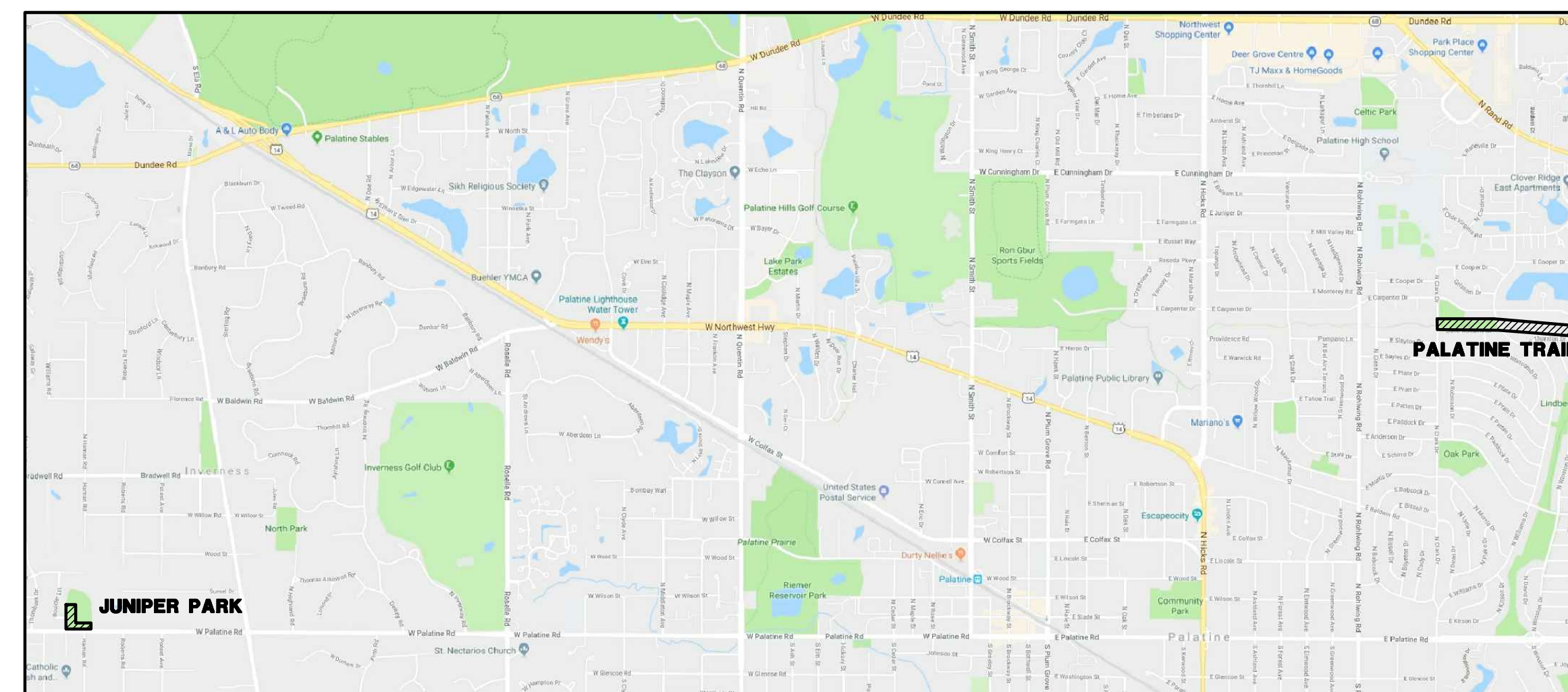
Notes related to requested amount	Costs related to the ADA portion of the project are highlighted on the bid sheet.
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PROPOSED SITE IMPROVEMENTS PALATINE TRAIL & JUNIPER PARK

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		



LOCATION MAP (Not to Scale)

PALATINE TRAIL
NORTH CLARK DRIVE TO EAST SANBORN DRIVE
PALATINE, ILLINOIS 60074

JUNIPER PARK
1000 WEST PALATINE ROAD
HOFFMAN ESTATES, ILLINOIS 60195

BENCHMARK:

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

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

SHEET INDEX

- TITLE SHEET
- PALATINE TRAIL - PROPOSED PATH LAYOUT
- PALATINE TRAIL - PROPOSED IMPROVEMENTS STA. 0+00 TO 9+50
- PALATINE TRAIL - PROPOSED IMPROVEMENTS STA. 9+50 TO 13+00
- PALATINE TRAIL - PROPOSED IMPROVEMENTS STA. 13+00 TO 23+80
- JUNIPER PARK - EXISTING CONDITIONS/DEMOLITION PLAN
- JUNIPER PARK - PROPOSED IMPROVEMENTS
- JUNIPER PARK - PROPOSED GRADING CLOSE-UP
- SOIL EROSION AND SEDIMENT CONTROL DETAILS
- MWRD GENERAL NOTES
- GENERAL NOTES AND DETAILS

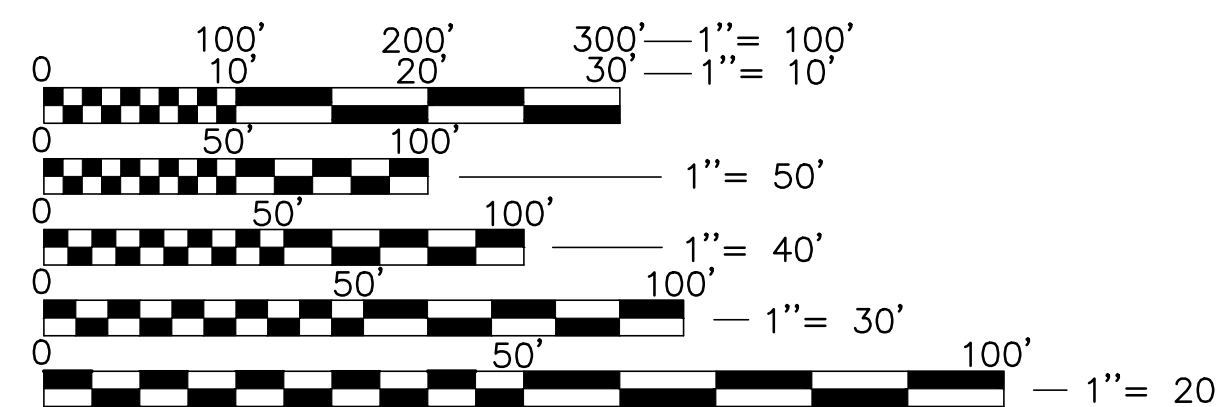
COORDINATING/PERMITTING AGENCIES:

PALATINE TRAIL PROJECT
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

JUNIPER PARK PROJECT

VILLAGE OF HOFFMAN ESTATES
1900 HASSELL ROAD
HOFFMAN ESTATES, ILLINOIS 60169
TELEPHONE: 847-882-9100



**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**

JULIE
JOINT
UTILITY
LOCATION
INFORMATION FOR
EXCAVATION
CALL 811

**Know what's below.
Call before you dig.**

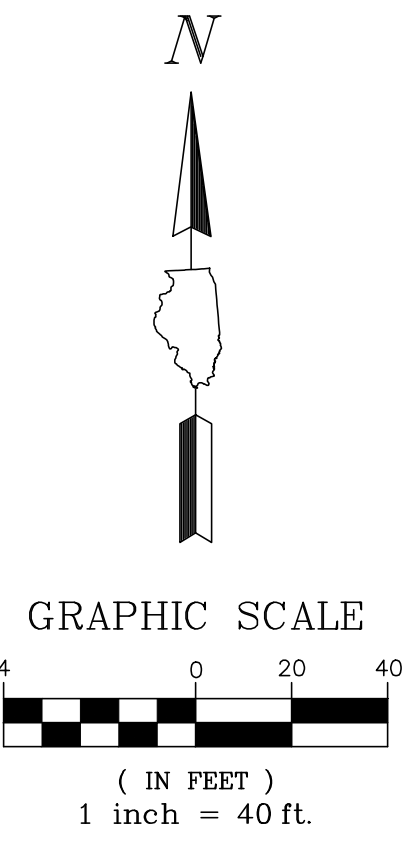
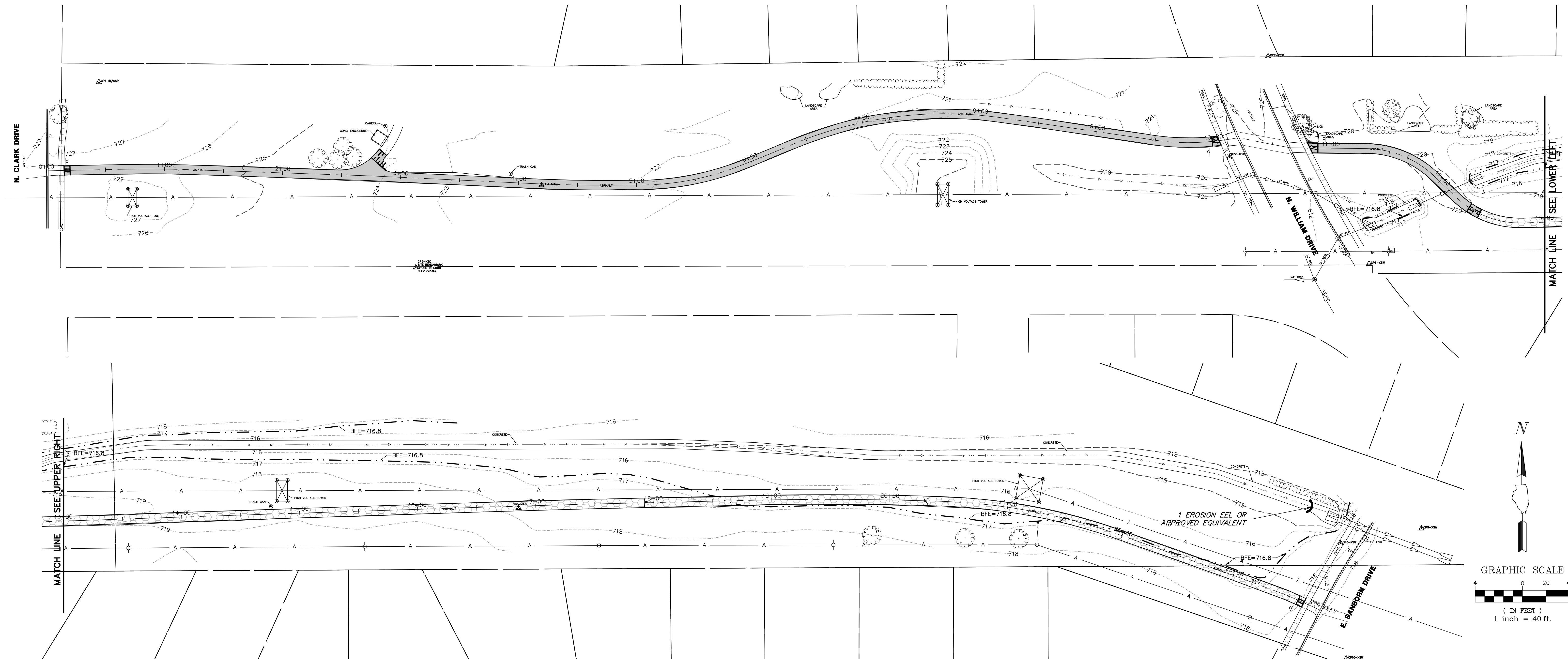
SIGNED: _____ P.E.
TOM RYCHLIK

DATE: _____

ILLINOIS LICENSE NO.: 062-056334

EXPIRATION DATE: NOVEMBER 30, 2019

NO.	BY	DATE	REVISION



PROJECT NOTES:

- Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans. Refer to notes and details throughout the entire plan set.
- No fill shall be placed within the floodplain boundary.
- N. Clark Drive, N. William Drive, and E. Sanborn Drive are under the jurisdiction of the Village of Palatine. All work within the right of way will require a permit.
- 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.
- 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.
- 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.
- 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. These items shall be completely removed and legally disposed of offsite.
- 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.
- Refer to General Notes for grading, compaction and proof roll requirements.
- 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 bituminous pavement as shown. Refer to detail sheet for specific pavement sections and general note sheet for construction, testing and compaction requirements.

- Provide 1.9% cross slope and 4.5% maximum longitudinal slope on all sidewalks and pedestrian pathways unless otherwise indicated. Illinois accessibility code requires a maximum constructed cross slope and 2.00% and longitudinal slope of 5.00%.
- The contractor shall minimize disturbed areas duration construction and restore all disturbed turf areas with seed.
- 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.
- 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 4" (Lawn Area) or 8" (Native Area) 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)
 - IDOT Class 4 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.
 - 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 sodding 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:
 - ADA sidewalk ramps & landings.
 - 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.

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

CONTROL POINTS:

Point #	Northing	Easting	Elevation	Description
1	1988336.83	1069529.32	727.57	CP1-IR/CAP
2	1988273.09	1070486.85	719.91	CP2-XSW
3	1988199.27	1071835.30	718.12	CP3-XSW
4	1988249.50	1069904.14	722.28	CP4-MAG
5	1988179.82	1069797.71	723.93	CP5-XTC-TBM
6	1988182.88	1070604.94	718.89	CP6-XSW
7	1988358.62	1070519.43	720.35	CP7-XSW
8	1988229.28	1071139.10	717.56	CP8-MAG
9	1988211.88	1071903.78	718.65	CP9-XSW
10	1988101.64	1071840.03	718.30	CP10-XSW

PROPOSED LEGEND

- BITUMINOUS PAVEMENT OVERLAY
2" (MINIMUM) HMA SURFACE COURSE MIX D, N50
- BITUMINOUS SURFACE REMOVAL (2.5" AVERAGE),
STONE COMPACTION & PLACEMENT OF 2.5" HMA
SURFACE COURSE MIX D, N50
- HMA SURFACE REMOVAL - BUTT JOINT

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

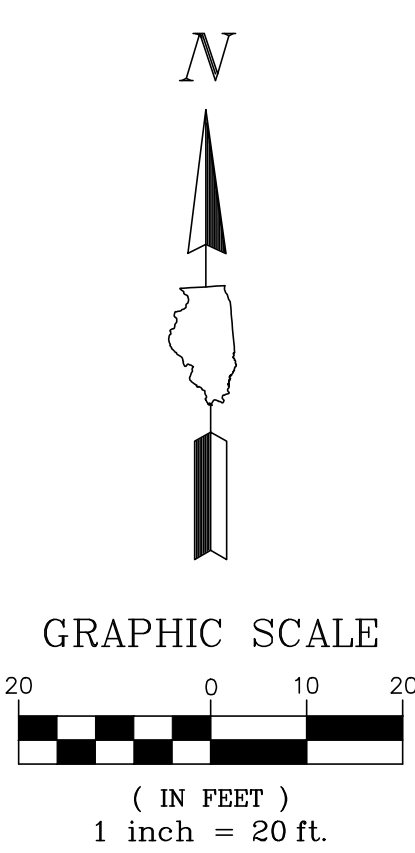
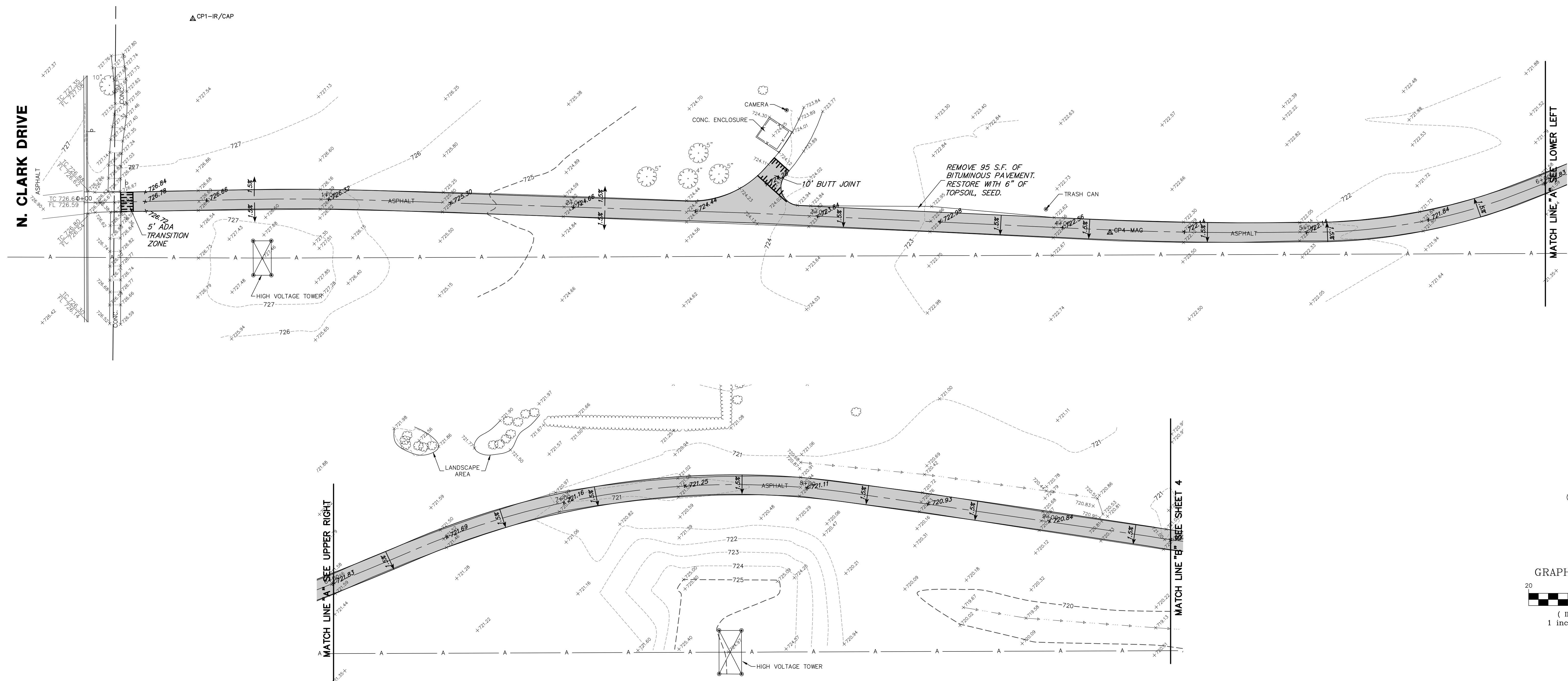
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PALATINE TRAIL - PROPOSED PATH LAYOUT
PROPOSED SITE IMPROVEMENTS
PALATINE PARK DISTRICT
PALATINE, ILLINOIS




NO.	BY	DATE	REVISION

FILE: 5241.210-PR1.dwg
 DRAWN BY: LLM
 DATE: 07-05-18
 GHA PROJECT # 5241.210
 CHECKED BY: TAR
 DATE: 07-05-18
 SCALE: 1"=40'
 SHEET NUMBER: **2**
 OF 11 SHEETS

N. CLARK DRIVE



PROPOSED LEGEND

-  BITUMINOUS PAVEMENT OVERLAY
2" (MINIMUM) HMA SURFACE COURSE MIX D, N50
-  BITUMINOUS SURFACE REMOVAL (2.5" AVERAGE),
STONE COMPACTION & PLACEMENT OF 2.5" HMA
SURFACE COURSE MIX D, N50
-  HMA SURFACE REMOVAL - BUTT JOINT

SEE SHEET 2 FOR PROJECT NOTES

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TEL 847.478.9700 ■ FAX 847.478.9701

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PALATINE TRAIL - STA. 0+00 TO 9+50
PROPOSED SITE IMPROVEMENTS
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

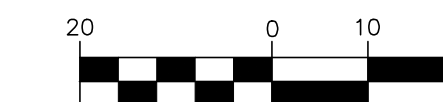
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DATE: 07-05-18	5241.210
CHECKED BY: TAR	SCALE:
DATE: 07-05-18	1"=20'
	OF 11 SHEETS

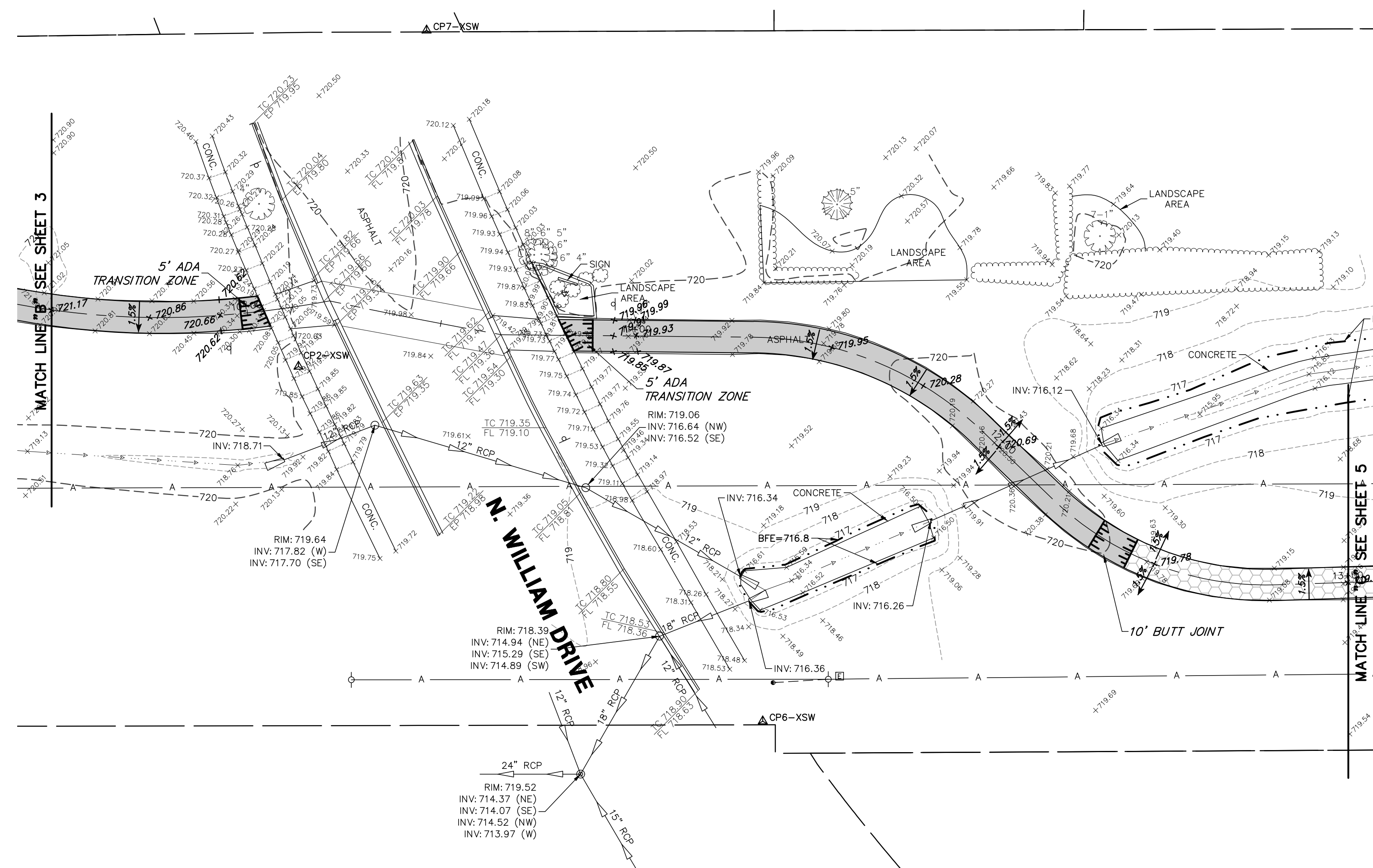
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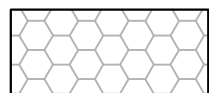

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

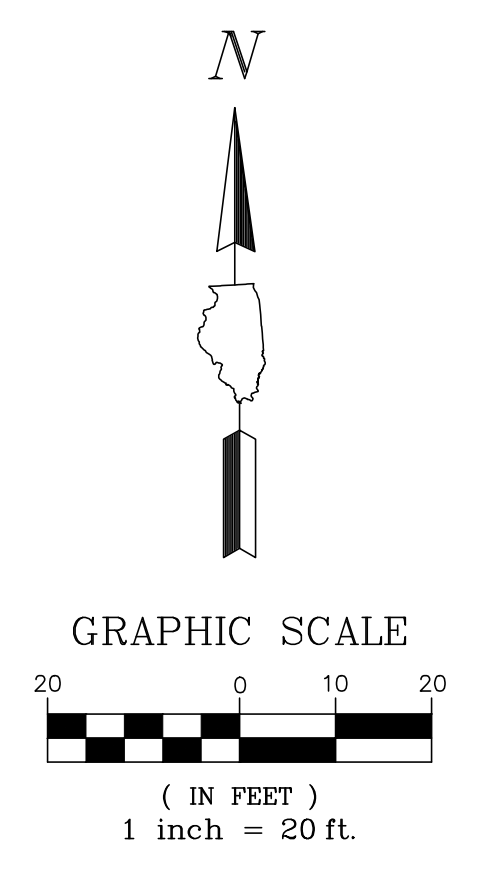
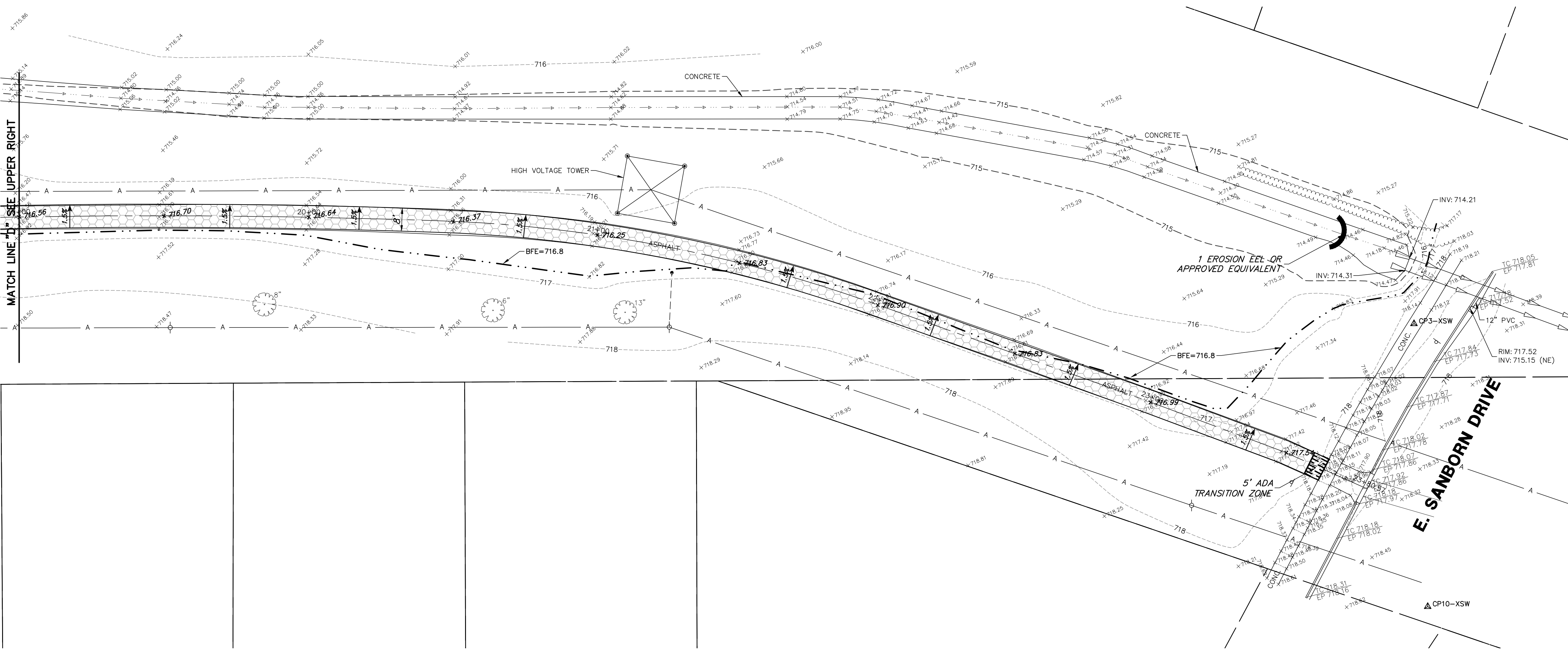
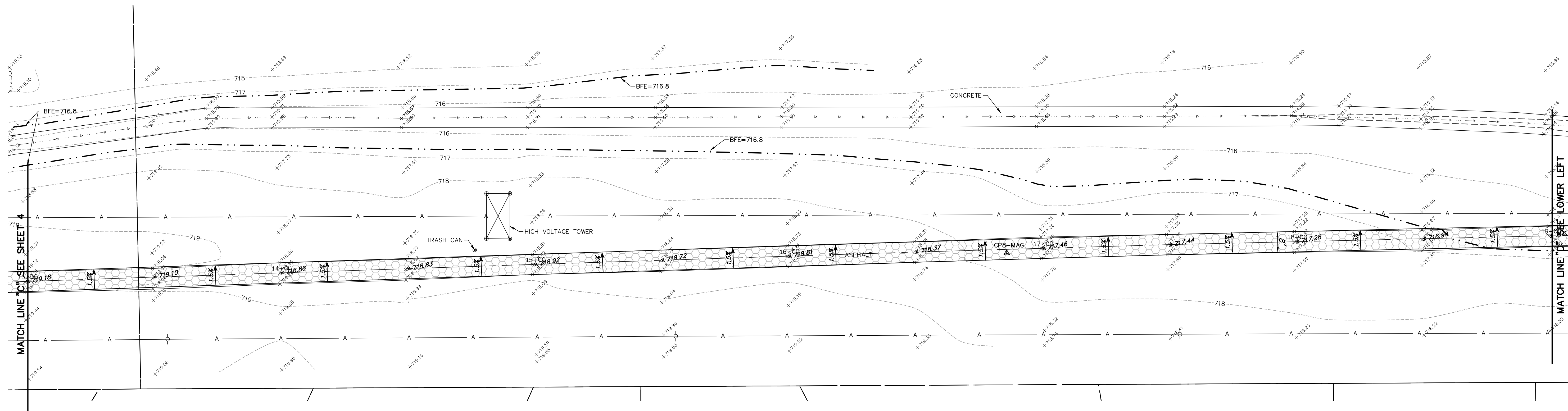





PROPOSED LEGEND

-  BITUMINOUS PAVEMENT OVERLAY
2" (MINIMUM) HMA SURFACE COURSE MIX D, N50
-  BITUMINOUS SURFACE REMOVAL (2.5" AVERAGE),
STONE COMPACTION & PLACEMENT OF 2.5" HMA
SURFACE COURSE MIX D, N50
-  HMA SURFACE REMOVAL - BUTT JOINT

SEE SHEET 2 FOR PROJECT NOTES

NO.	BY	DATE	REVISION



- PROPOSED LEGEND**
-  BITUMINOUS PAVEMENT OVERLAY
2" (MINIMUM) HMA SURFACE COURSE MIX D, N50
 -  BITUMINOUS SURFACE REMOVAL (2.5" AVERAGE),
STONE COMPACTION & PLACEMENT OF 2.5" HMA
SURFACE COURSE MIX D, N50
 -  HMA SURFACE REMOVAL - BUTT JOINT

SEE SHEET 2 FOR PROJECT NOTES

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

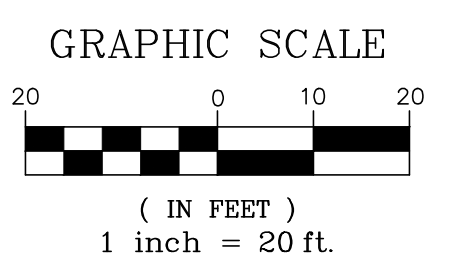
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PALATINE TRAIL - STA. 13+00 TO 23+80
PROPOSED SITE IMPROVEMENTS
PALATINE PARK DISTRICT
PALATINE, ILLINOIS



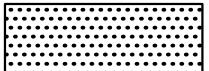
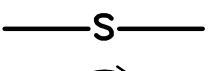


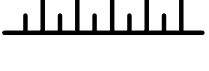


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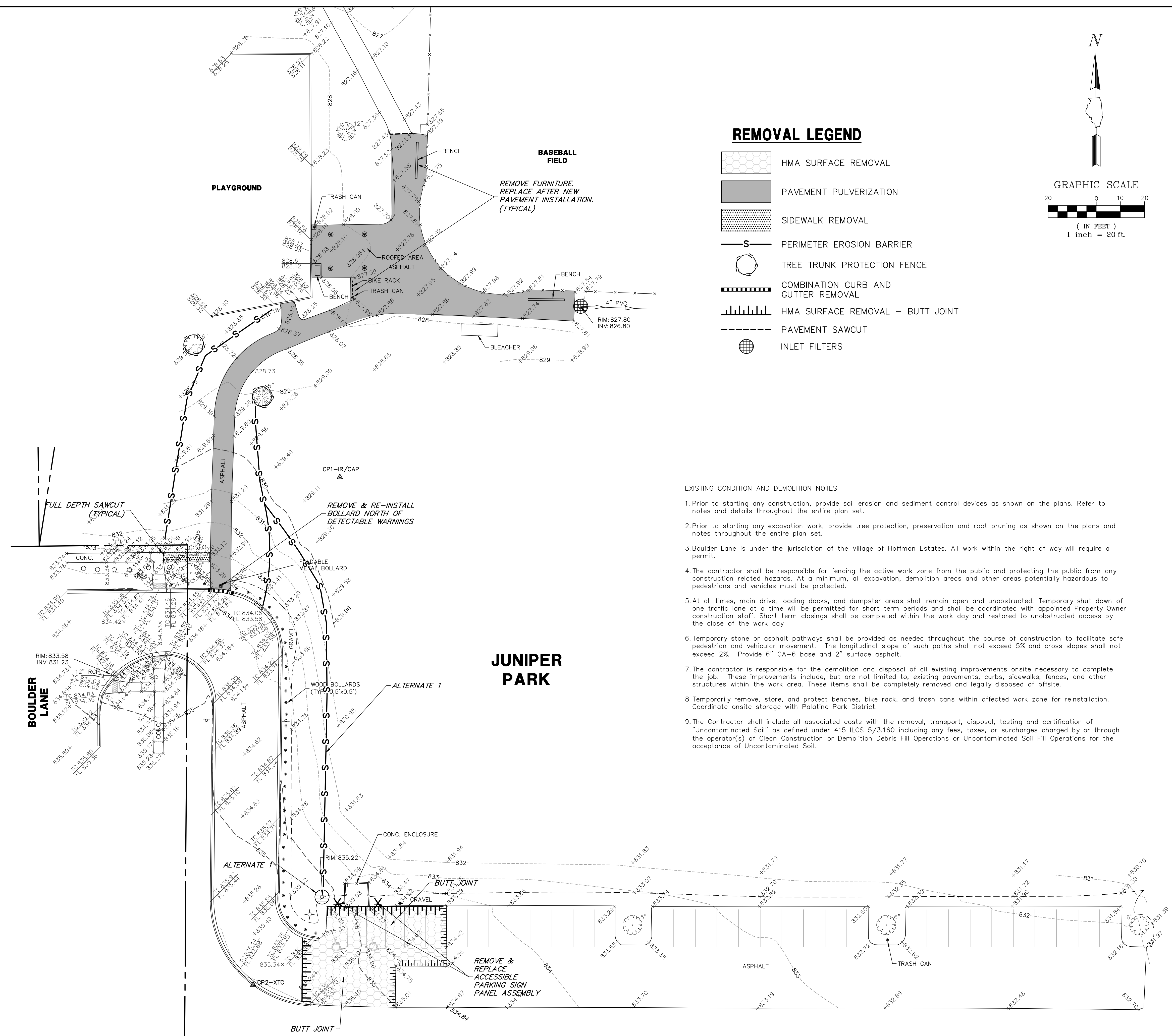
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DRAWN BY: LLM	GHA PROJECT #
DATE: 07-05-18	5241.210
CHECKED BY: TAR	SCALE:
DATE: 07-05-18	1"=20'
	OF 11 SHEETS

5



REMOVAL LEGEND

-  HMA SURFACE REMOVAL
-  PAVEMENT PULVERIZATION
-  SIDEWALK REMOVAL
-  PERIMETER EROSION BARRIER
-  TREE TRUNK PROTECTION FENCE
-  COMBINATION CURB AND GUTTER REMOVAL
-  HMA SURFACE REMOVAL - BUTT JOINT
-  PAVEMENT SAWCUT
-  INLET FILTERS



- EXISTING CONDITION AND DEMOLITION NOTES
1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans. 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. Boulder Lane is under the jurisdiction of the Village of Hoffman Estates. All work within the right of way will require a permit.
 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 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, fences, and other structures within the work area. These items shall be completely removed and legally disposed of offsite.
 8. Temporarily remove, store, and protect benches, bike rack, and trash cans within affected work zone for reinstallation. Coordinate onsite storage with Palatine Park District.
 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.

BENCHMARK:
ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING TRIMBLE VRS@NOW™ (NO PUBLISHED MONUMENT VERIFIED) DATUM: NAVD83

CONTROL POINTS:

Point #	Northing	Eastng	Elevation	Description
1	1983266.74	1046123.83	828.66	CP1-IR/CAP
2	1983056.19	1046087.90	836.12	CP2-XTC
3	1983219.52	1045957.51	835.15	CP3-XTC

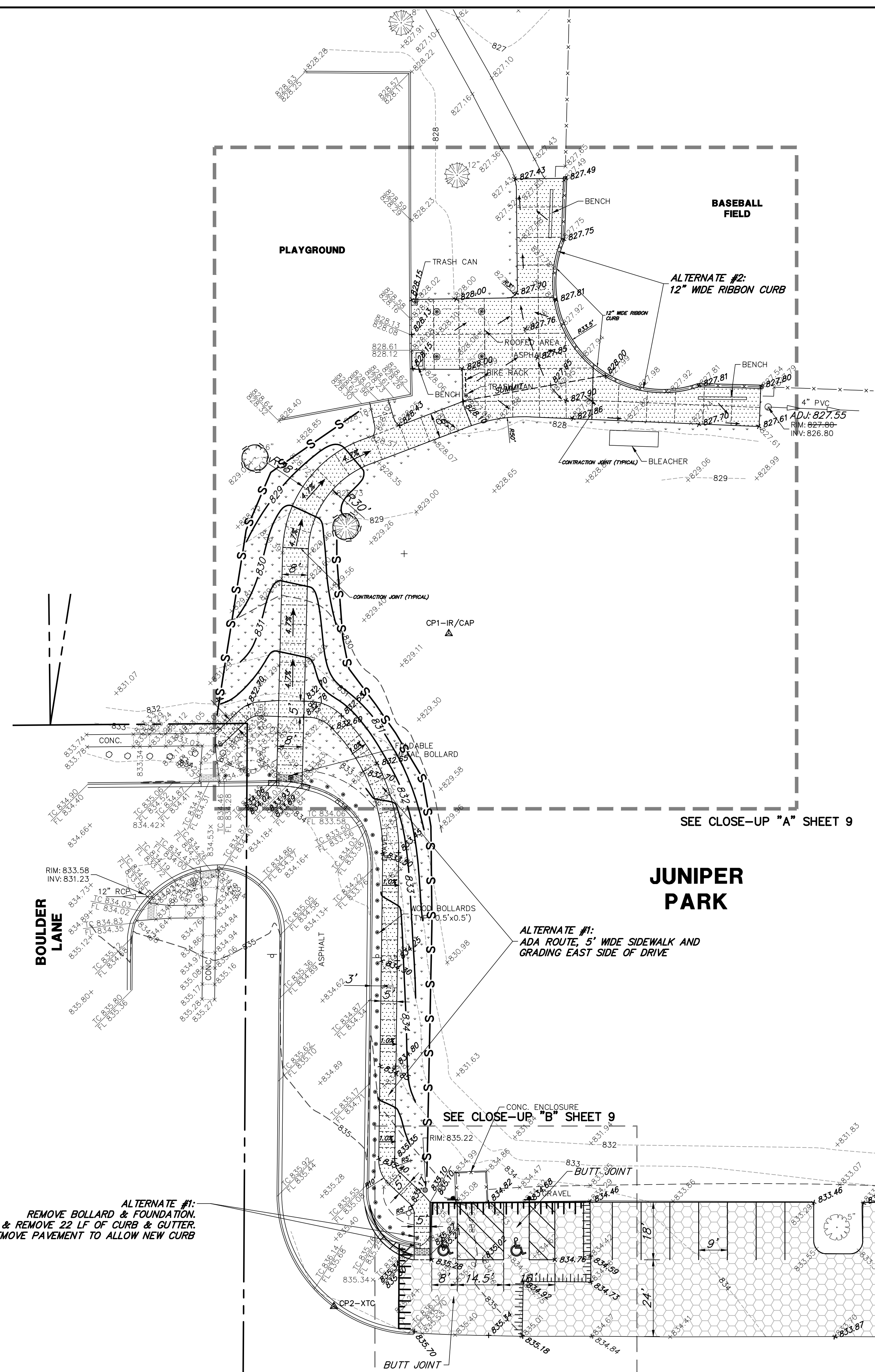
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JUNIPER PARK - EXISTING CONDITIONS / DEMOLITION PLAN
PROPOSED SITE IMPROVEMENTS
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

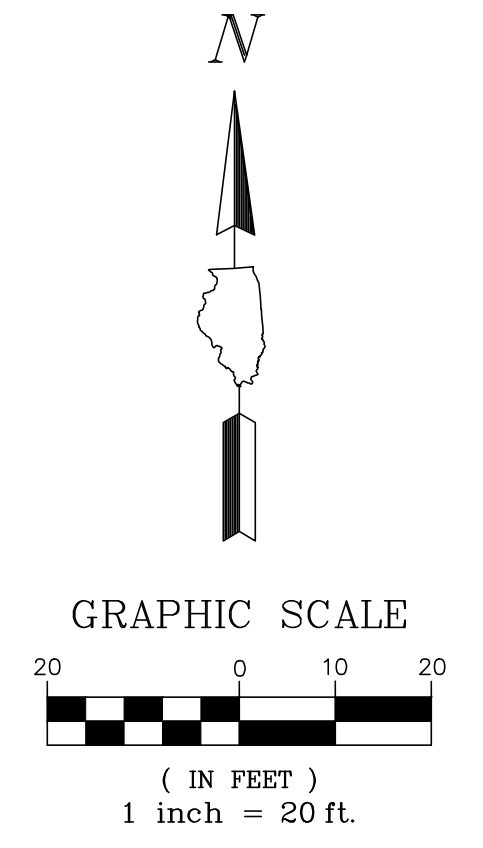
NO.	BY	DATE	REVISION

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DRAWN BY: AS	6
DATE: 07-05-18	GHA PROJECT # 5241.211
CHECKED BY: TAR	SCALE: 1" = 20'
DATE: 07-05-18	OF 11 SHEETS



PROPOSED LEGEND

- HMA SURFACE COURSE MIX D, N50, 2"
- PCC SIDEWALK
- TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH SEEDING, CLASS 1A MULCH, METHOD 3A
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (ADA DEPRESSED)
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT SAWCUT
- STRUCTURE ADJUSTMENT
- TREE TRUNK PROTECTION FENCE
- SUMMITS
- SLOPES
- SWALES

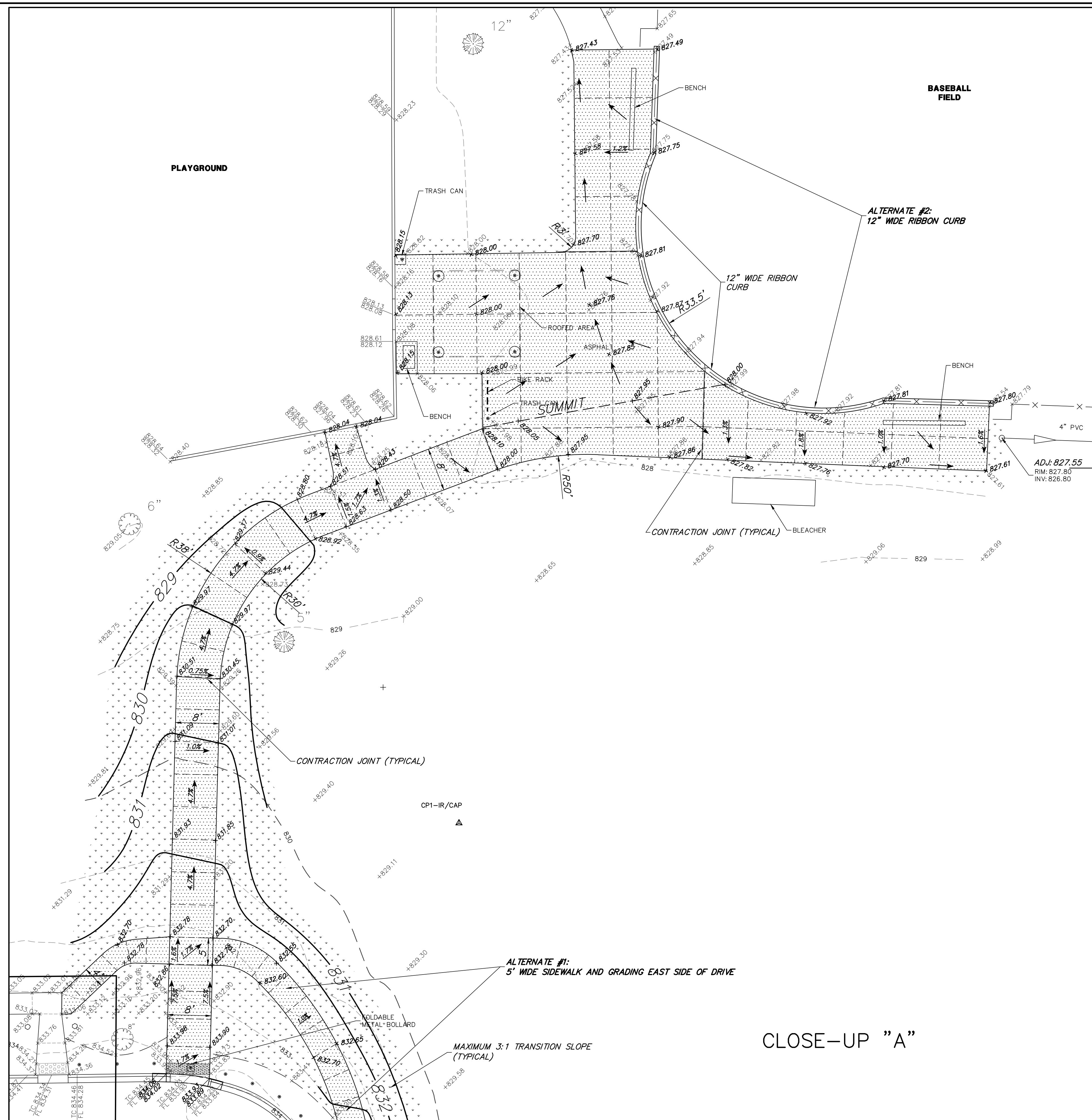


PROPOSED IMPROVEMENT NOTES

1. Refer to General Notes for grading, compaction and proof roll requirements.
2. 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.
3. 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.
4. 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.
5. Provide 1.90% cross slope and 4.50% 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%.
6. Install bituminous pavement as shown. Refer to detail sheet for specific pavement sections and general note sheet for construction, testing and compaction requirements.
7. 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%.
8. 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.
9. For handicapped stall markings, refer to Handicapped Parking Stall and Sign Dimensioning Detail.
10. Install new signs and handicapped parking signs using 2" galvanized square tube post per IDOT standard.
11. 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.
12. 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 4 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 sodding until a uniform stand is achieved.
13. All structures shall be adjusted to meet finished turf and pavement grades
14. Once restoration has been completed, the contractor shall remove erosion control devices.
15. Contractor shall provide the following as-constructed documents at the conclusion of the project:
 - f. 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.
 - g. 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.
 - h. 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 on 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.

ALTERNATE #1:
REMOVE BOLLARD & FOUNDATION.
SAWCUT & REMOVE 22 LF OF CURB & GUTTER.
SAWCUT & REMOVE PAVEMENT TO ALLOW NEW CURB

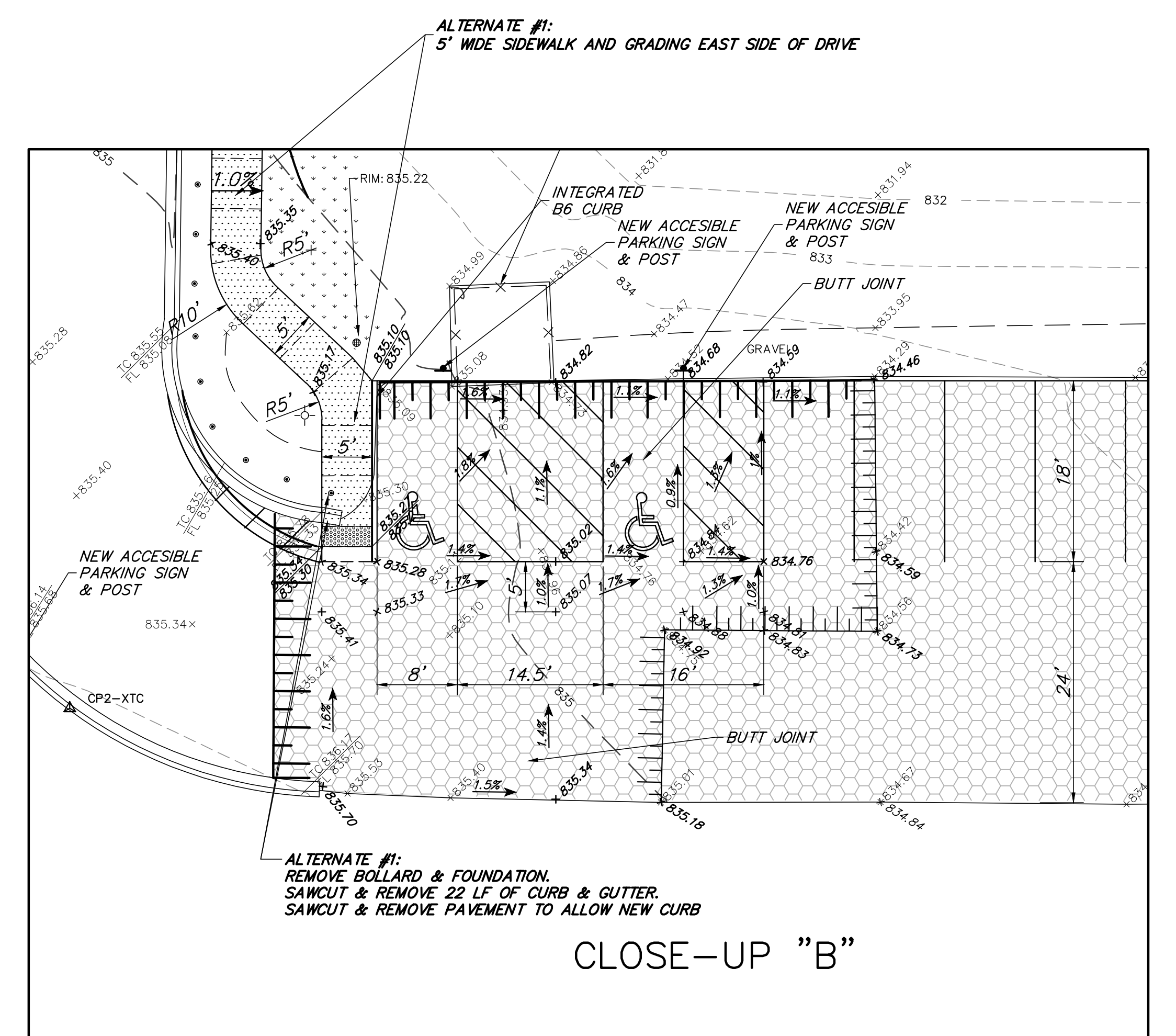
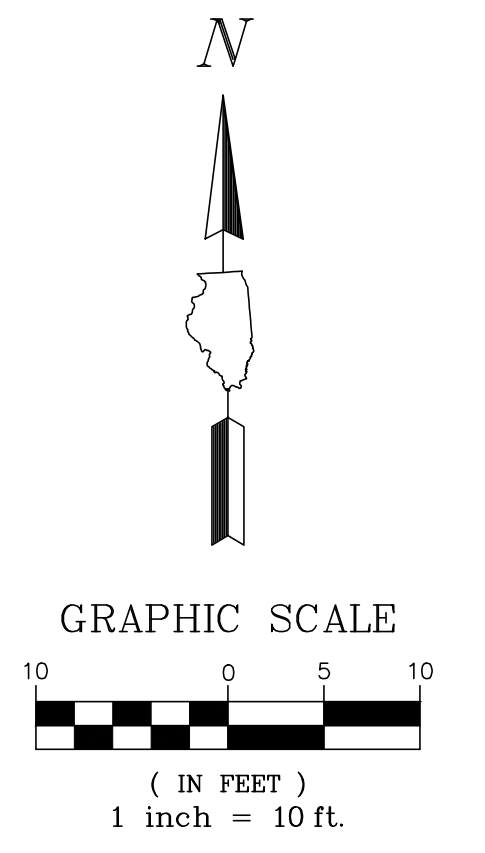
NO.	BY	DATE	REVISION



CLOSE-UP "A"

PROPOSED LEGEND

- HMA SURFACE COURSE MIX D, N50, 2"
- PCC SIDEWALK
- TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH
SEEDING, CLASS 2A
MULCH, METHOD 3A
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (ADA DEPRESSED)
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT SAWCUT
- ADJ: ### ##
- TREE TRUNK PROTECTION FENCE
- SUMMIT
- SLOPES
- SWALES



CLOSE-UP "B"

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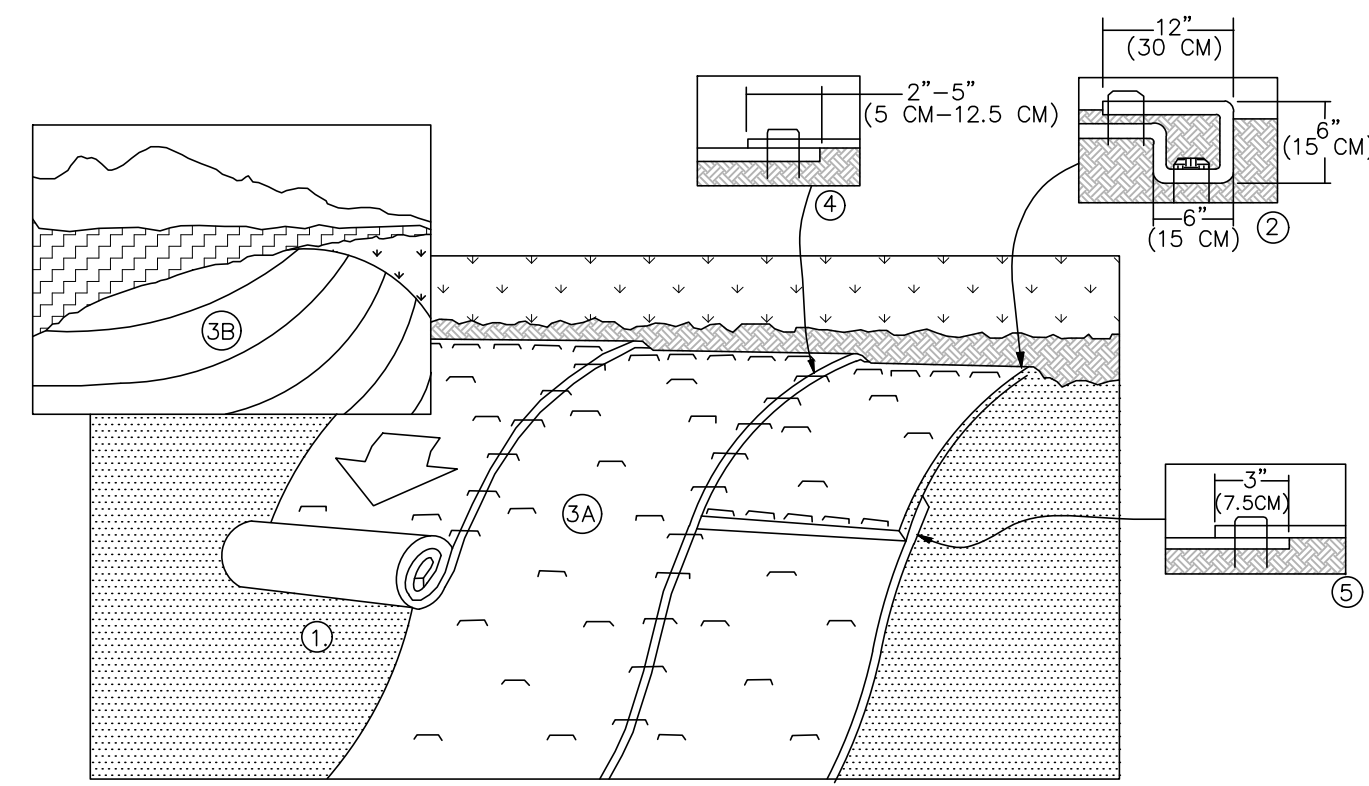
JUNIPER PARK - PROPOSED GRADING CLOSE-UP

**PROPOSED SITE IMPROVEMENTS
PALATINE PARK DISTRICT
PALATINE, ILLINOIS**

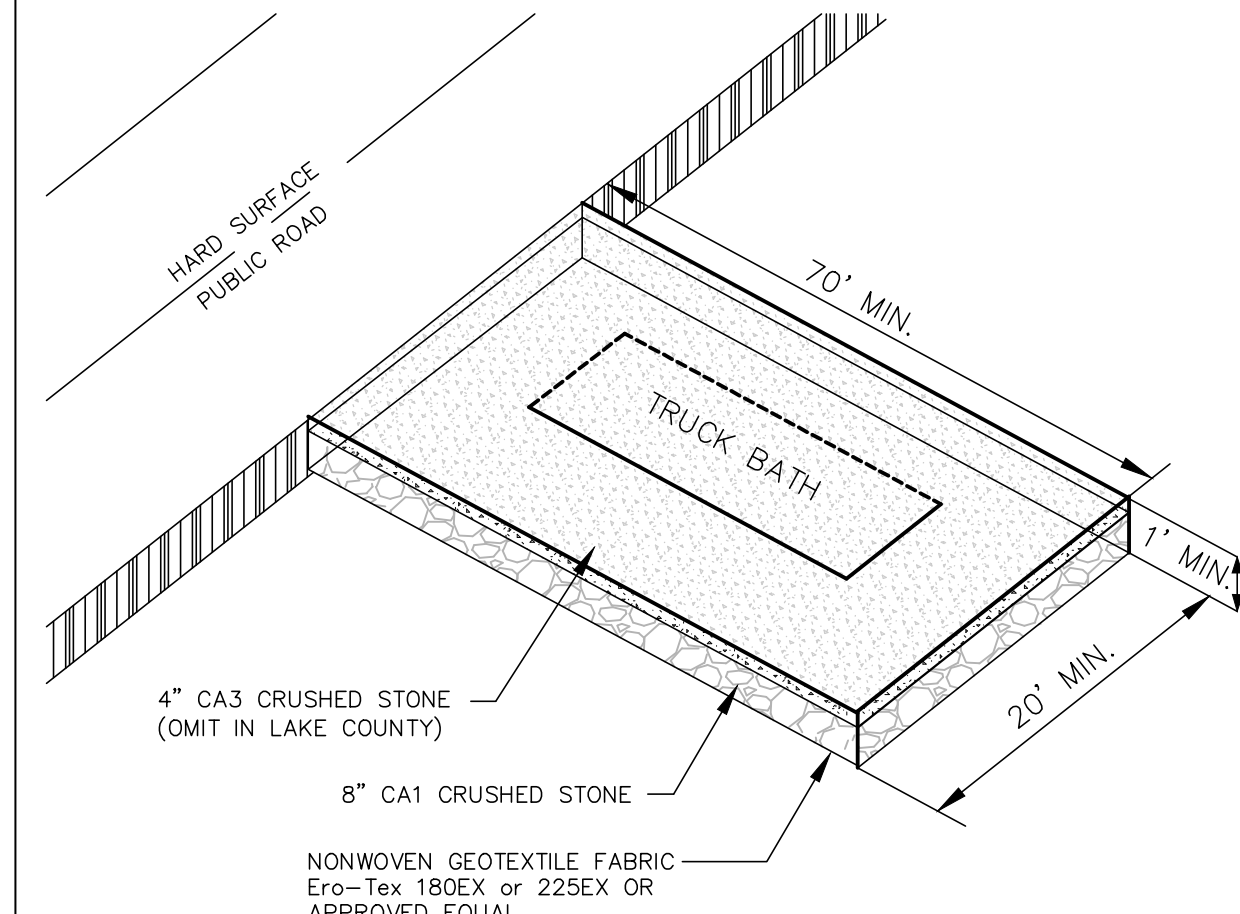
NO.	BY	DATE	REVISION

FILE: 5241.211_PR1.dwg	SHEET NUMBER:
DRAWN BY: AS	GHA PROJECT #
DATE: 07-05-18	5241.211
CHECKED BY: TAR	SCALE:
DATE: 07-05-18	1" = 10'
	OF 11 SHEETS

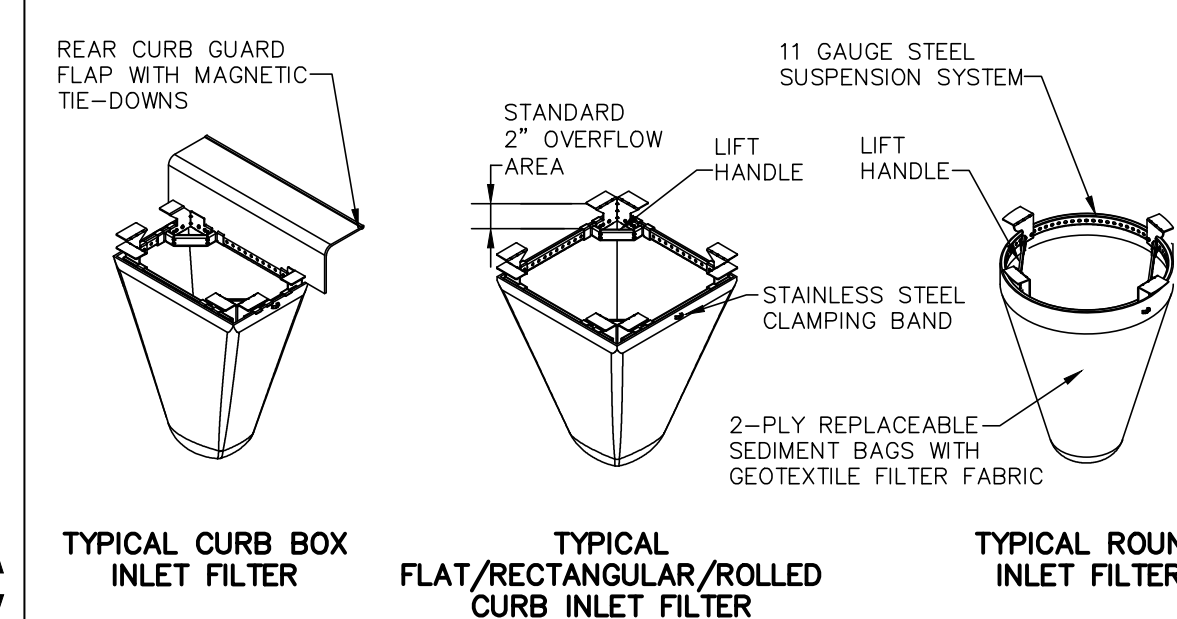
- NOTES:
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. 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 COLORED 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.
- NOTE:
- *IN LOOSE SOIL, CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



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



- MAINTENANCE
1. STREET CLEANING
 2. ENTRANCE CLEANING
 3. TRUCK BATH CLEANOUT
 4. TRUCK BATH WATER MUST BE SEDIMENT FREE BEFORE DISCHARGE.



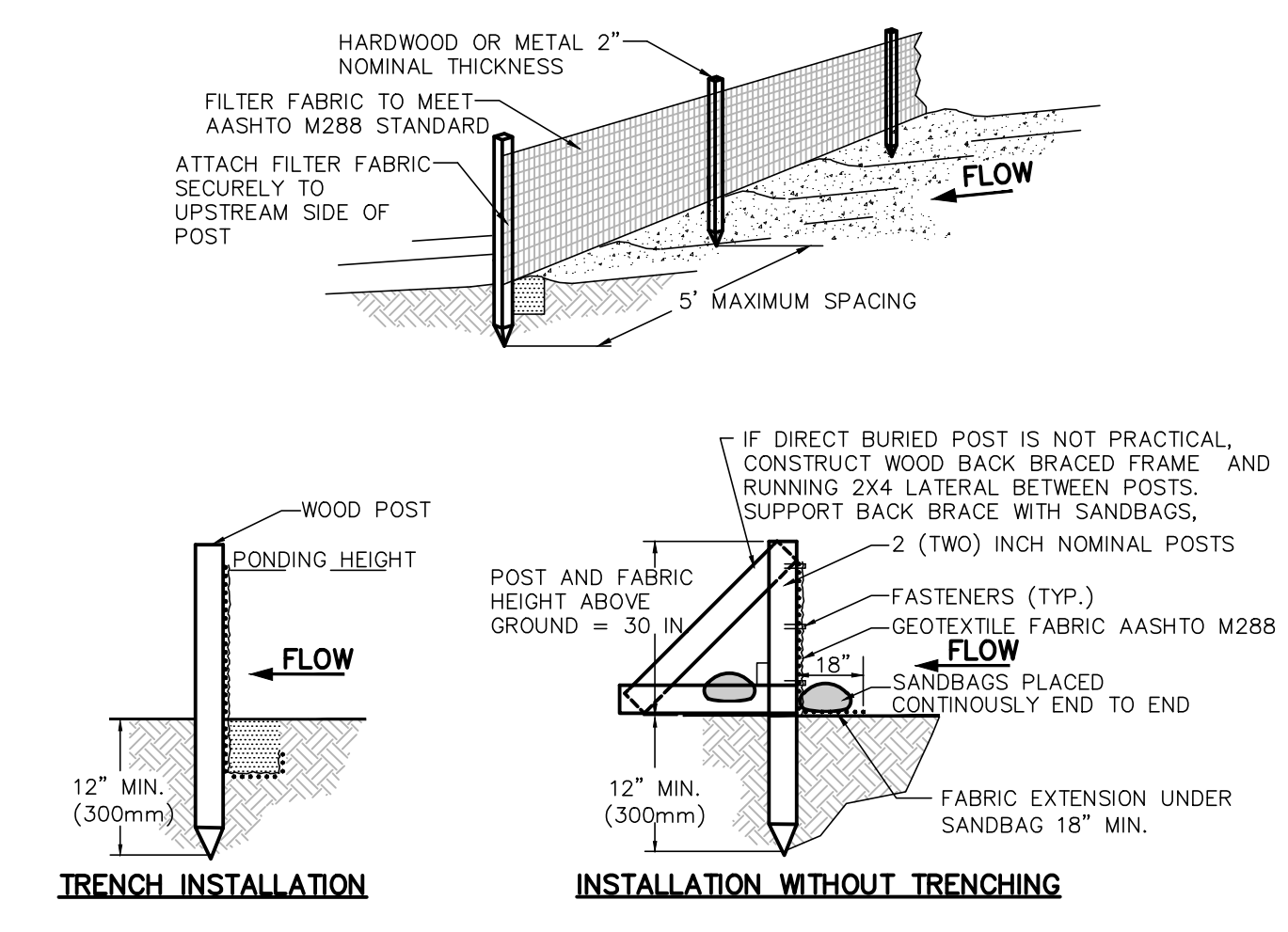
Material Property	Test Method	Value (min. ave.)
> Inner Filter Bag Specs (2ft ² min. val)		Non-Woven Woven Mono
Grab Tensile	ASTM D 4632	100 lbs 200 lbs
Puncture Strength	ASTM D 4833	65 lbs 90 lbs
Trapezoidal Tear	ASTM D 4335	45 lbs 75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs 90%
App. Open Size (AOS)	ASTM D 4751	70 sieve (212 mm) 40 sieve (425 mm)
Permittivity	ASTM D 4491	2.0/sec 2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft. 145gpm/sqft
> Polyester Outer Reinforcement Bag Specifications		
Weight	ASTM D 3776	4.55 oz/sqyd +/- 15%
Thickness	ASTM D 1777	.040 +/- .005
> Frame Construction		
A36 Structural Steel	ASTM A 576	Tensile Strength > 58,000 psi Yield Strength > 36,000 psi

- MAINTENANCE
1. CLEAN OUT AFTER EVERY RAIN EVENT
- ACCEPTABLE MANUFACTURER'S AS LISTED BELOW:
1. INLET & PIPE PROTECTION, INC. Naperville, IL 60564 847 722-0690
 2. MARATHON MATERIALS, INC. Plainfield, IL 60544 800-983-9493



EROSION CONTROL BLANKET SLOPE INSTALLATION

- 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 ASSHTO 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



TEMPORARY CONSTRUCTION ENTRANCE

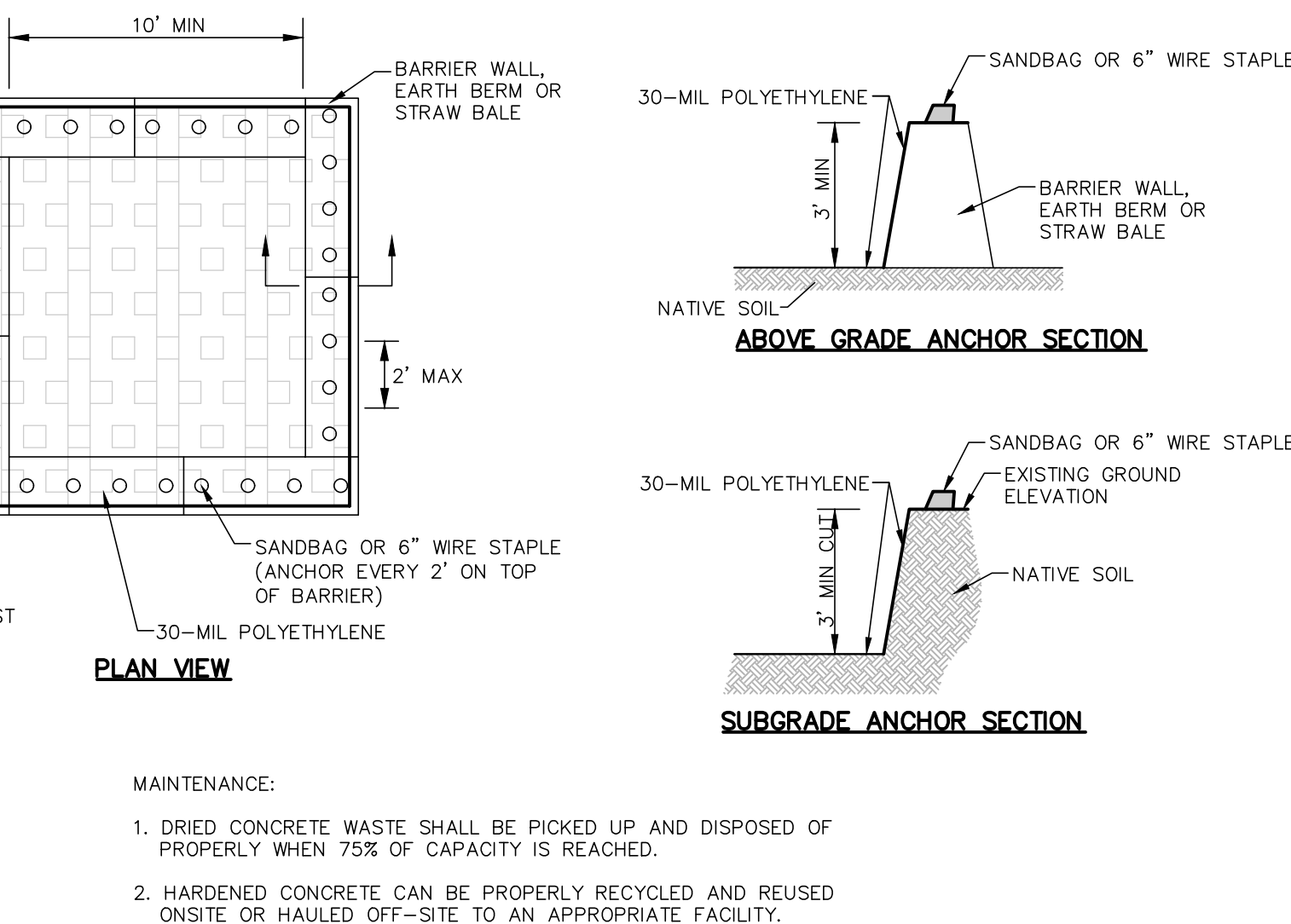
Stabilization Type:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Permanent Seeding			A			X	X	X	X	X		
Dormant Seeding	B											
Temporary Seeding			C			X	X	X	X	X		
Sodding			E	X	X							
Mulching			F									

- 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.



SILT FENCE INSTALLATION DETAIL

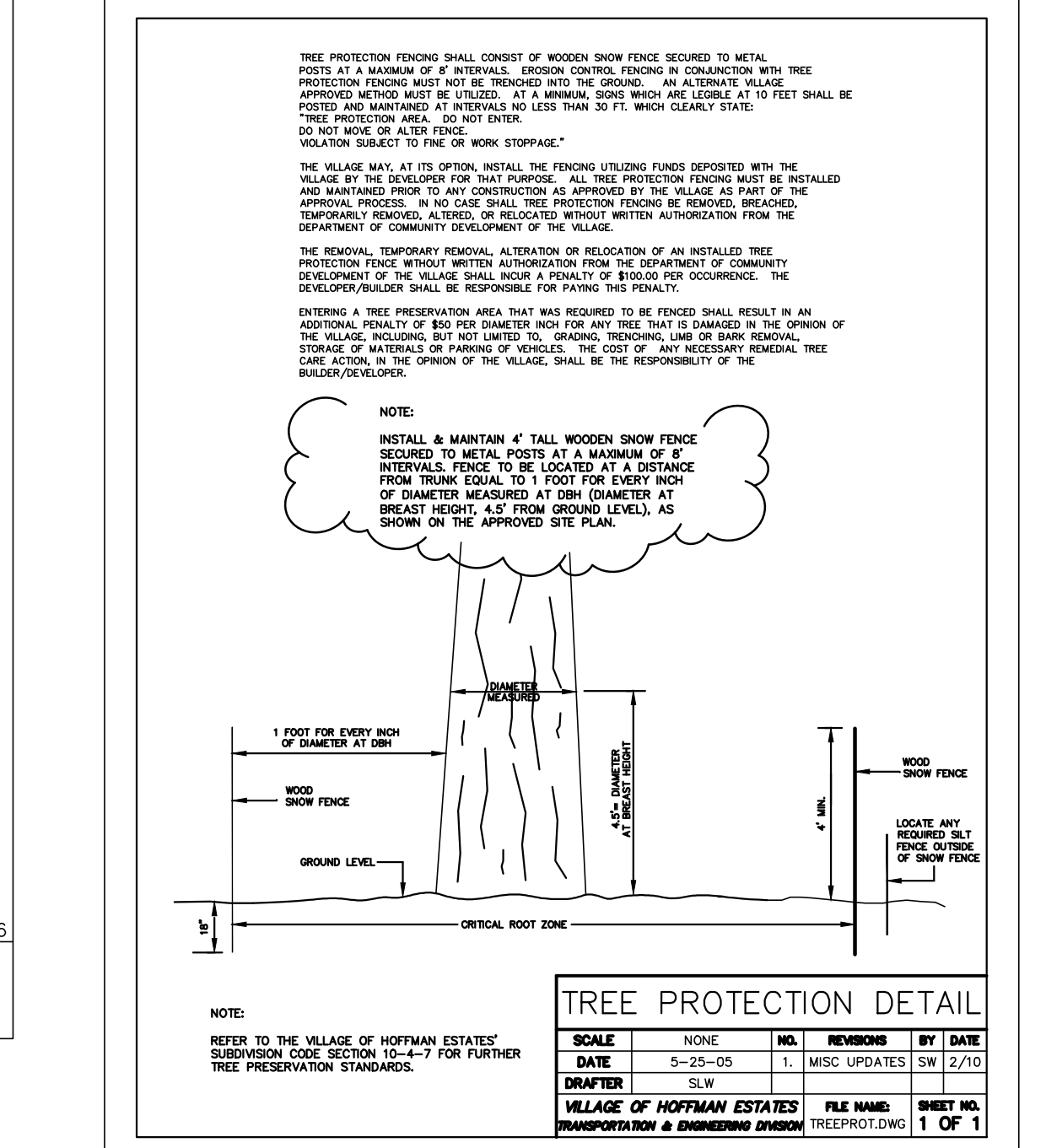
- NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
 3. CONCRETE WASHOUT SHOULD NOT BE ALLOWED IN STREET OR TO REACH A STORM WATER DRAINAGE SYSTEM OR WATERCOURSE.
 4. CONCRETE WASHOUT AREA TO BE LOCATED 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.



- 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.



TYPICAL SOIL PROTECTION CHART



CONCRETE WASHOUT



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
PROPOSED SITE IMPROVEMENTS
PALATINE PARK DISTRICT
PALATINE, ILLINOIS

NO.	BY	DATE	REVISION

FILE: 5241.210 - D11 Palatine Trail & Juniper Park.dwg SHEET NUMBER:
 DRAWN BY: EJS GHA PROJECT # 5241.300
 DATE: 07-05-18
 CHECKED BY: TAR SCALE: N.A.
 DATE: 07-05-18 OF 11 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 PALATINE 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 PALATINE 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.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

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)		
4-INCH TO 36-INCH	ASTM D-3350	ASTM D-3261, F-2620 (HEAT FUSION)
4-INCH TO 12-INCH	ASTM D-3035	ASTM D-3212, F-477 (GASKETED)
14-INCH TO 48-INCH		
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.

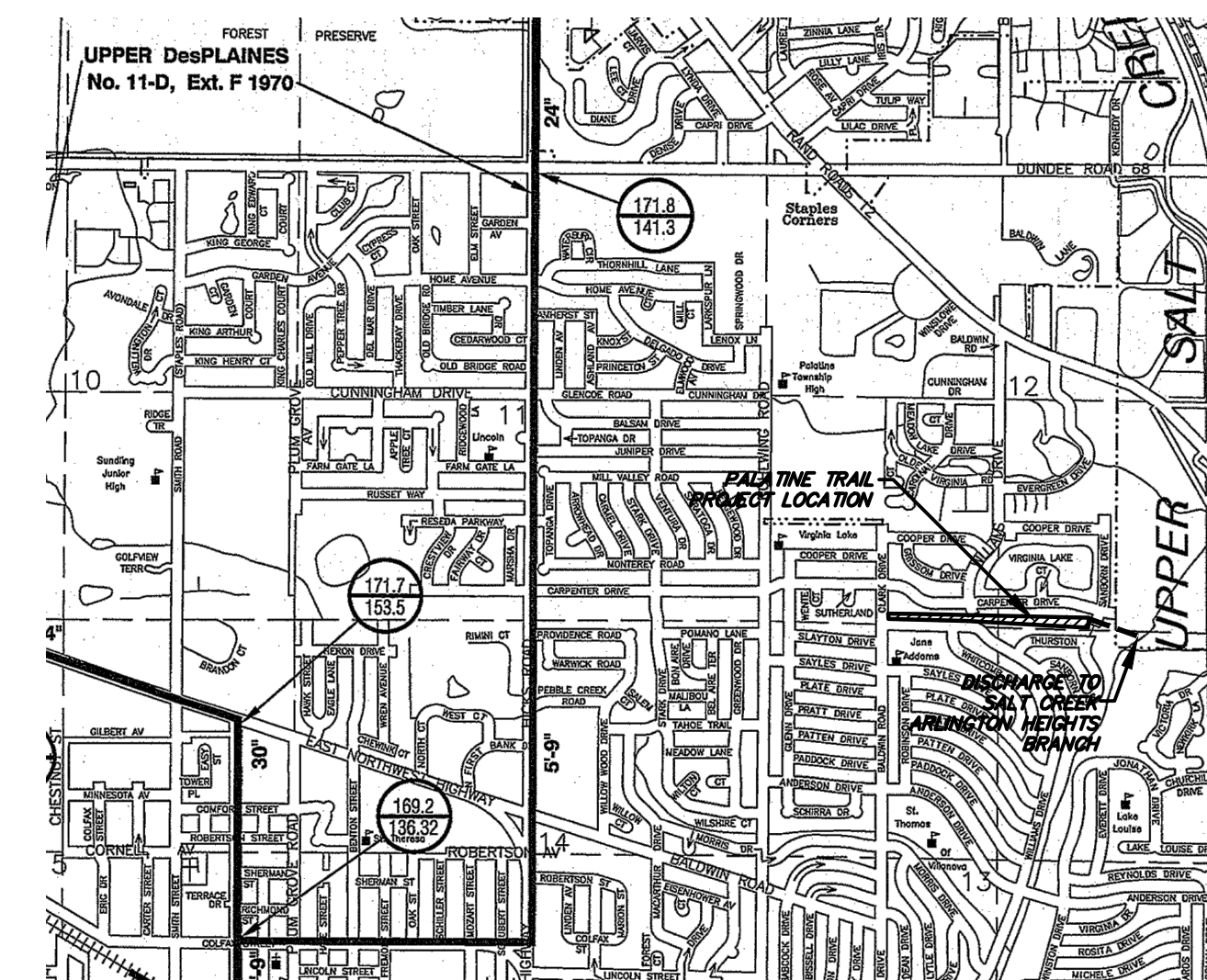
PIPE MATERIAL PIPE SPECIFICATIONS JOINT SPECIFICATIONS

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.



MWRD ROUTING MAP FOR PALATINE TRAIL

SCALE 1"=2000'



TECHNICAL GUIDANCE MANUAL
MWRD GENERAL NOTES

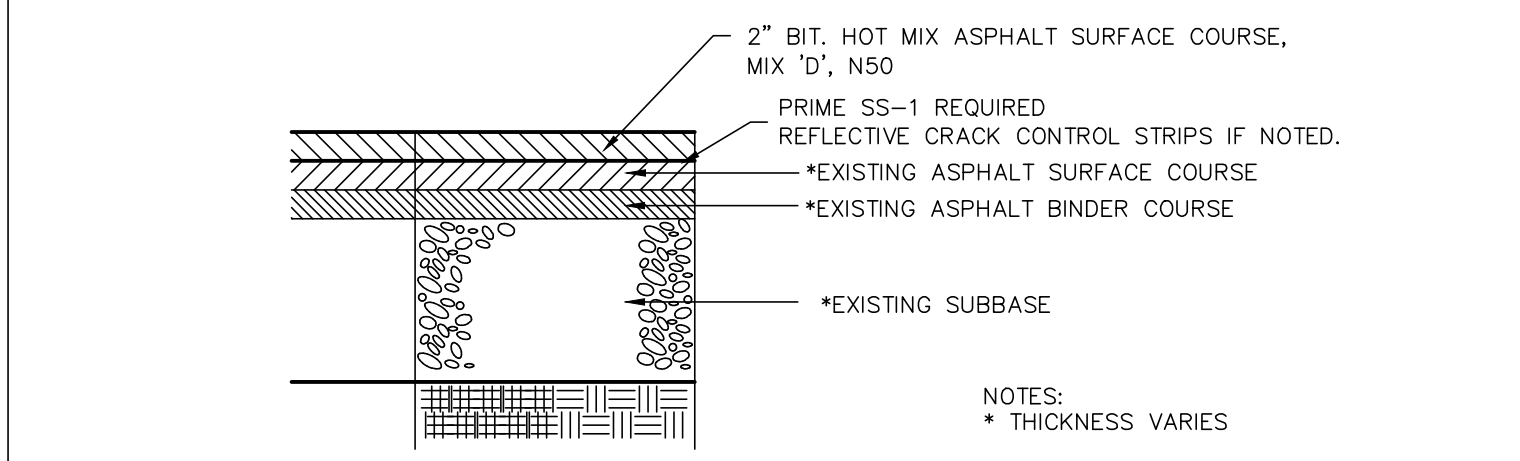
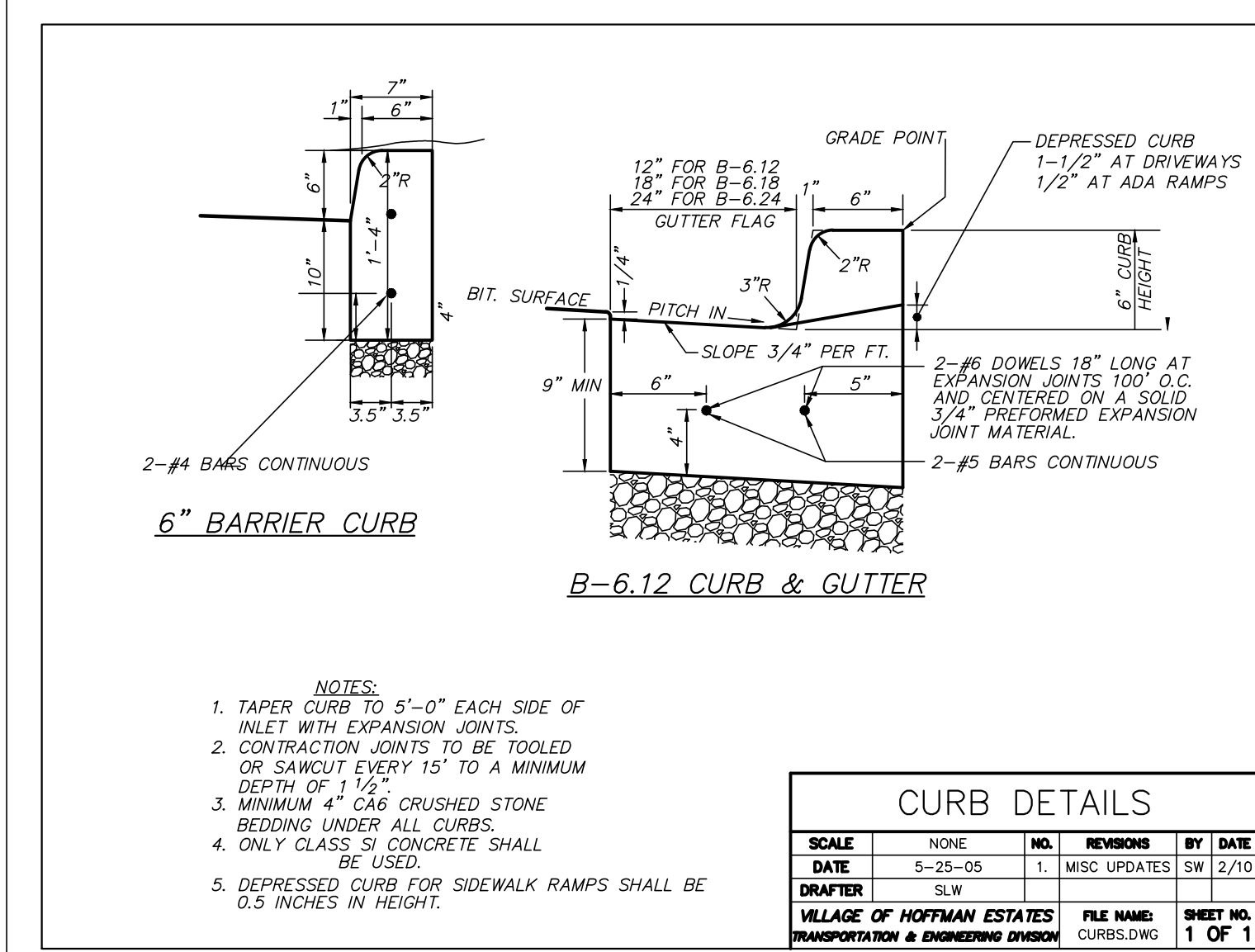
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GENERAL NOTES

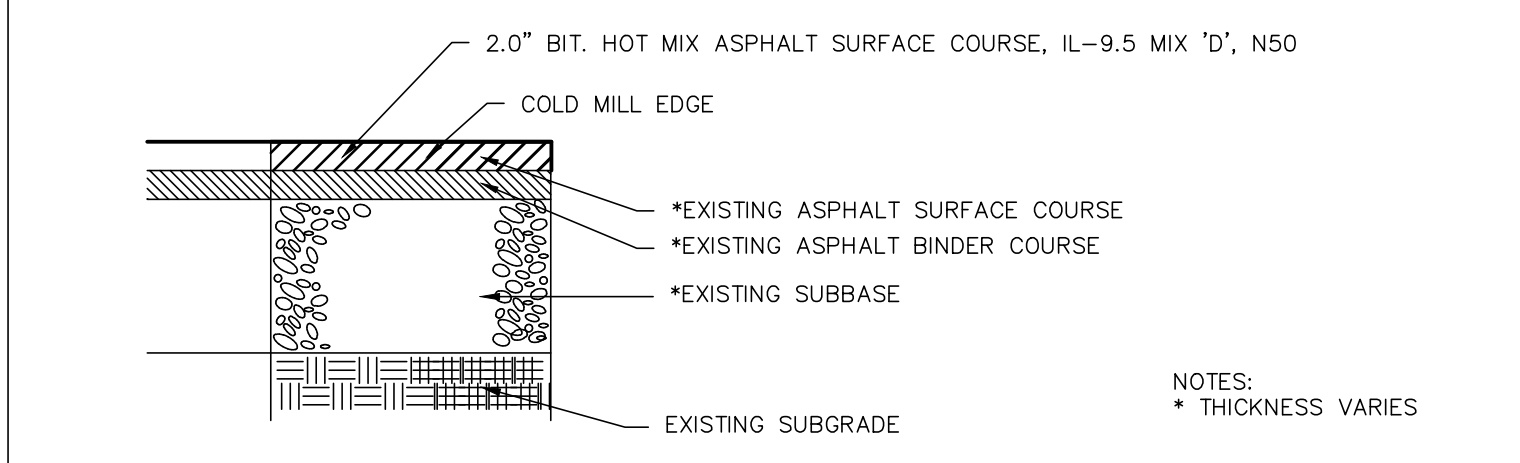
- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE 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.
- 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

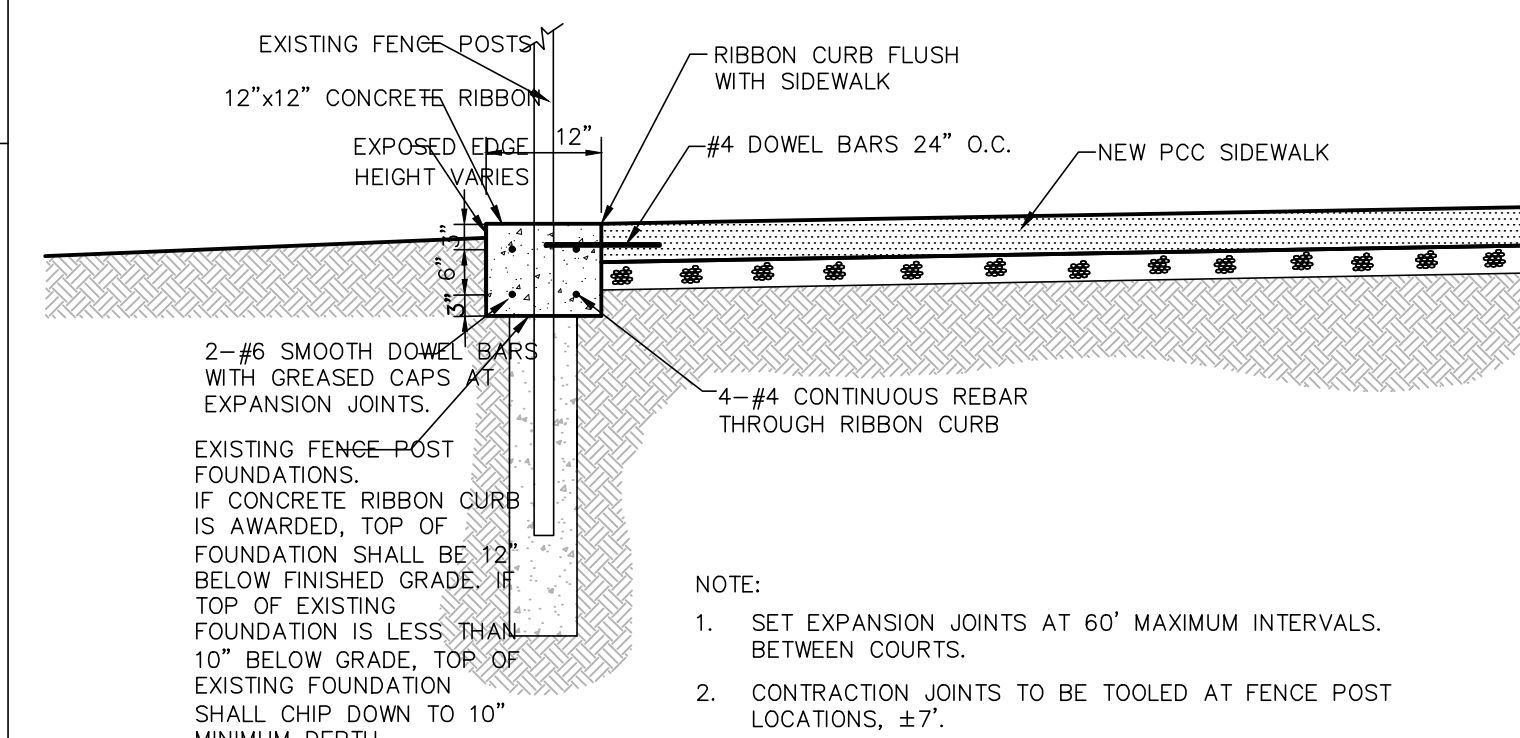
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY 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 x 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 SIGNAGE OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.



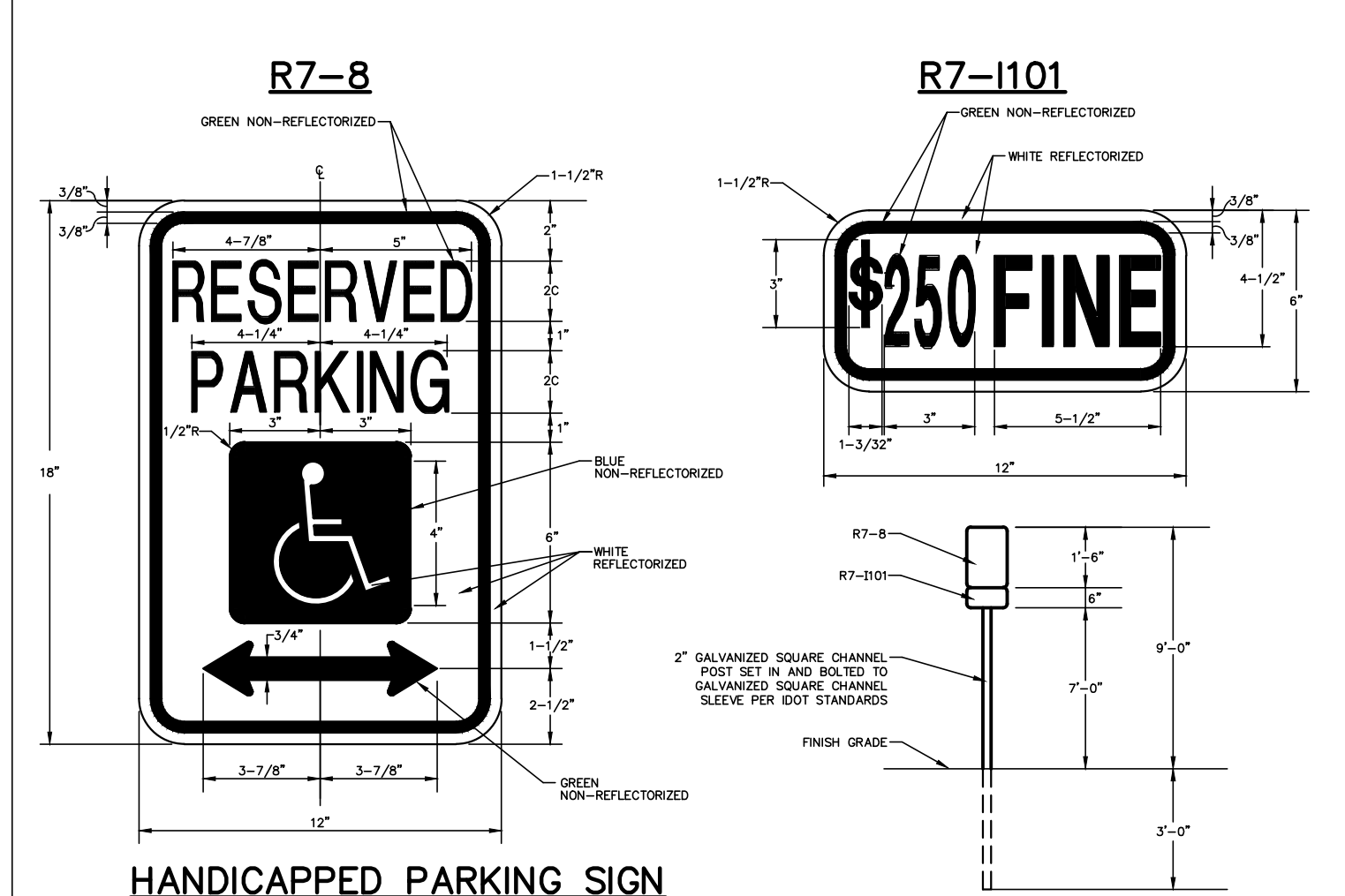
PAVEMENT OVERLAY DETAIL



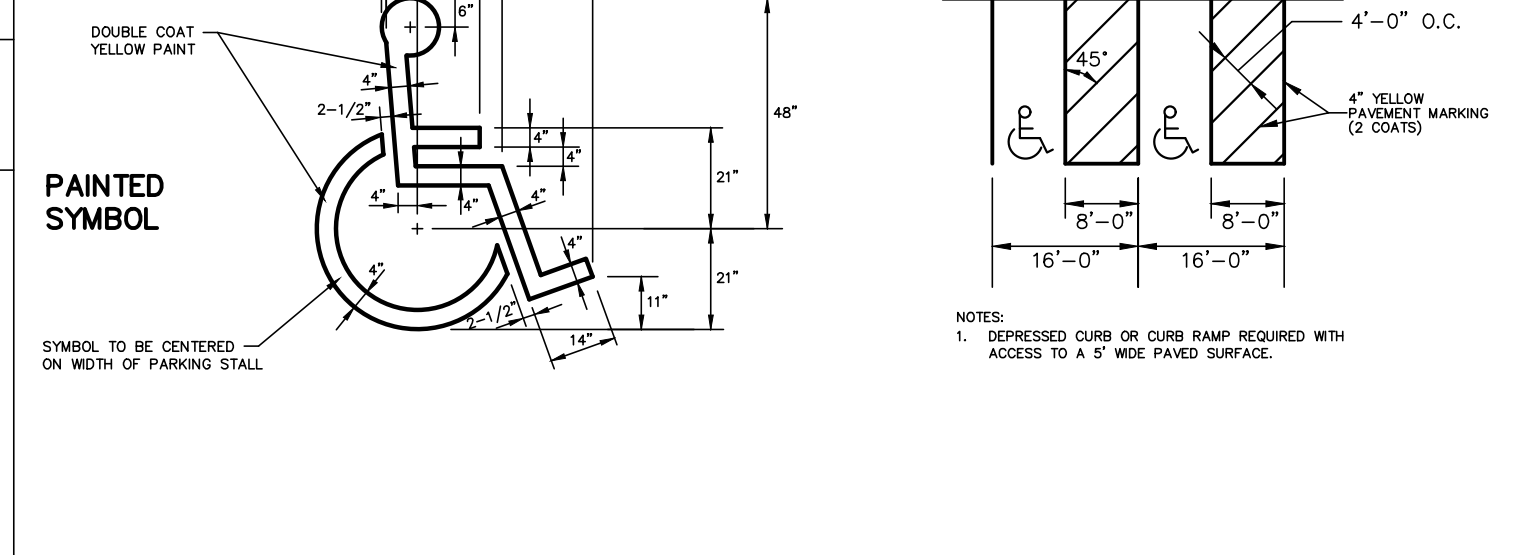
2.0' PAVEMENT PATCH DETAIL



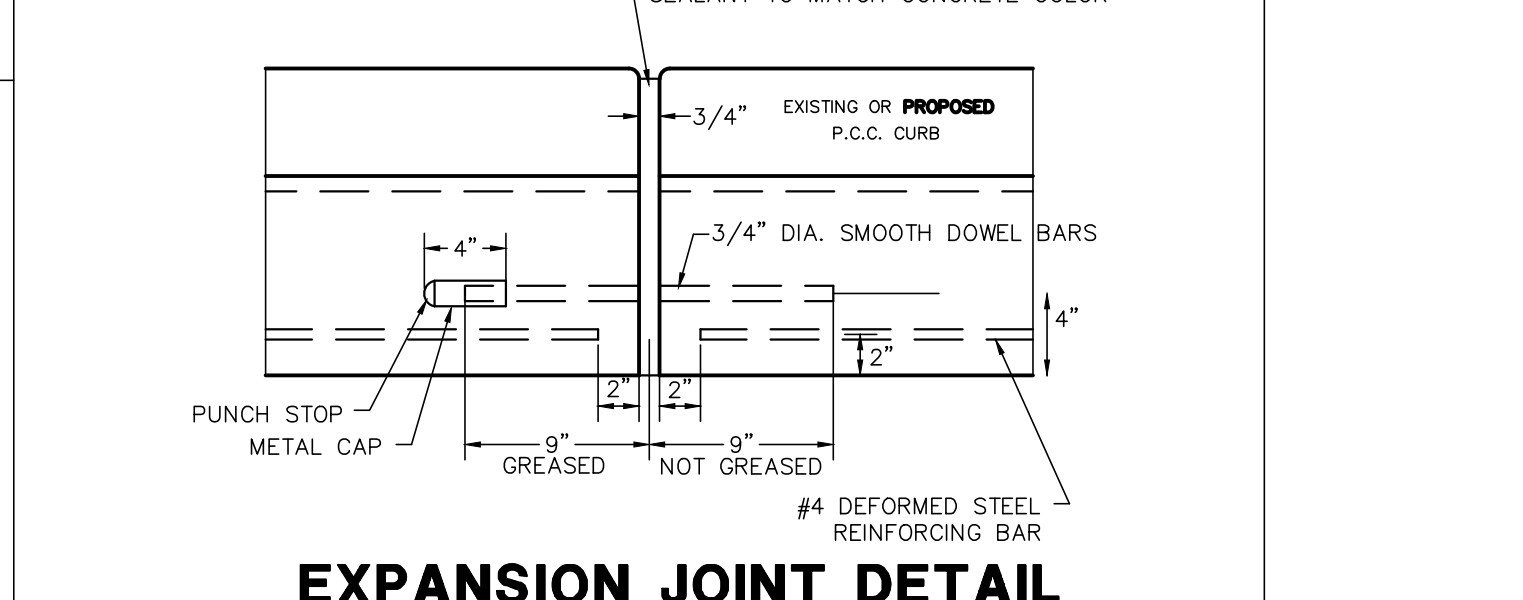
CONCRETE RIBBON DETAIL ALTERNATE #2



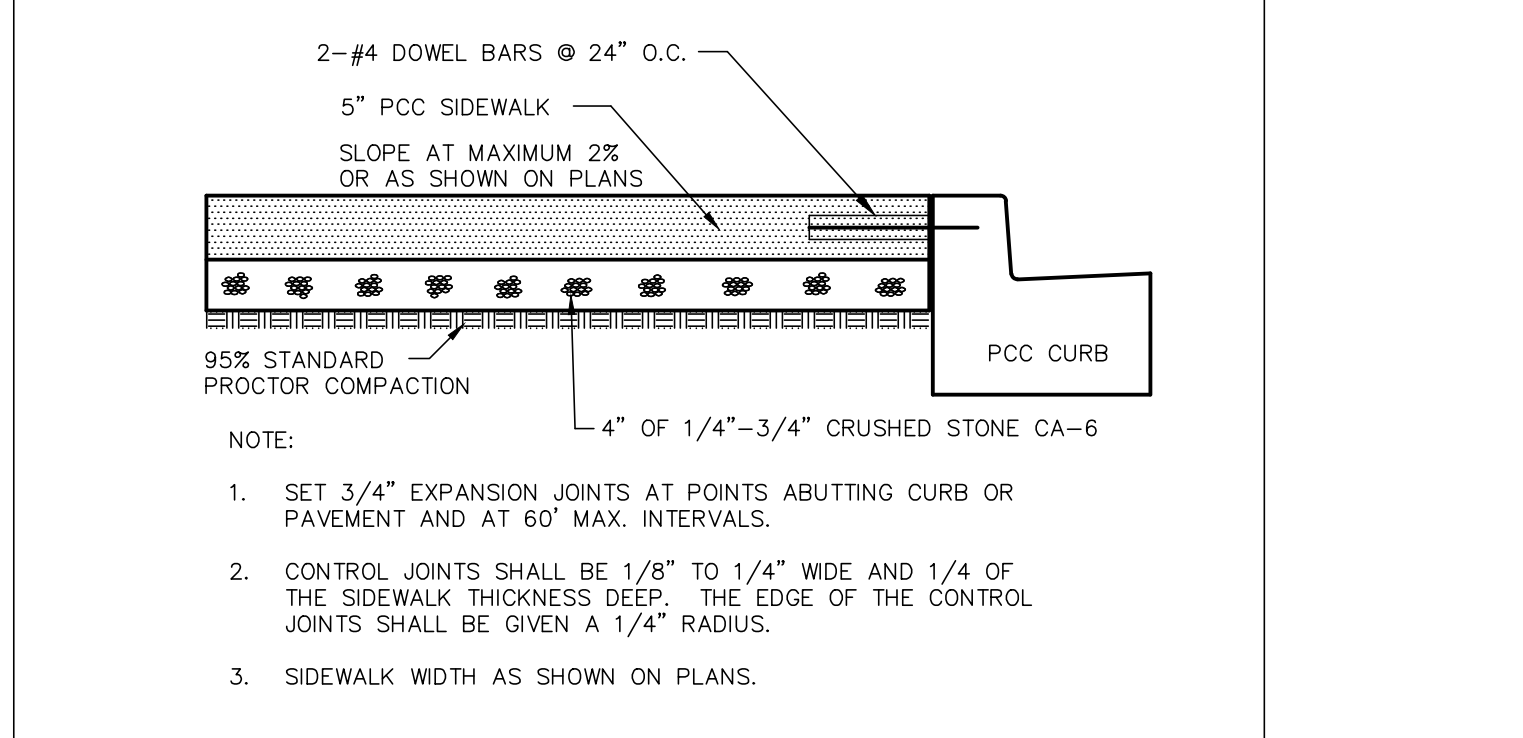
HANDICAPPED PARKING SIGN



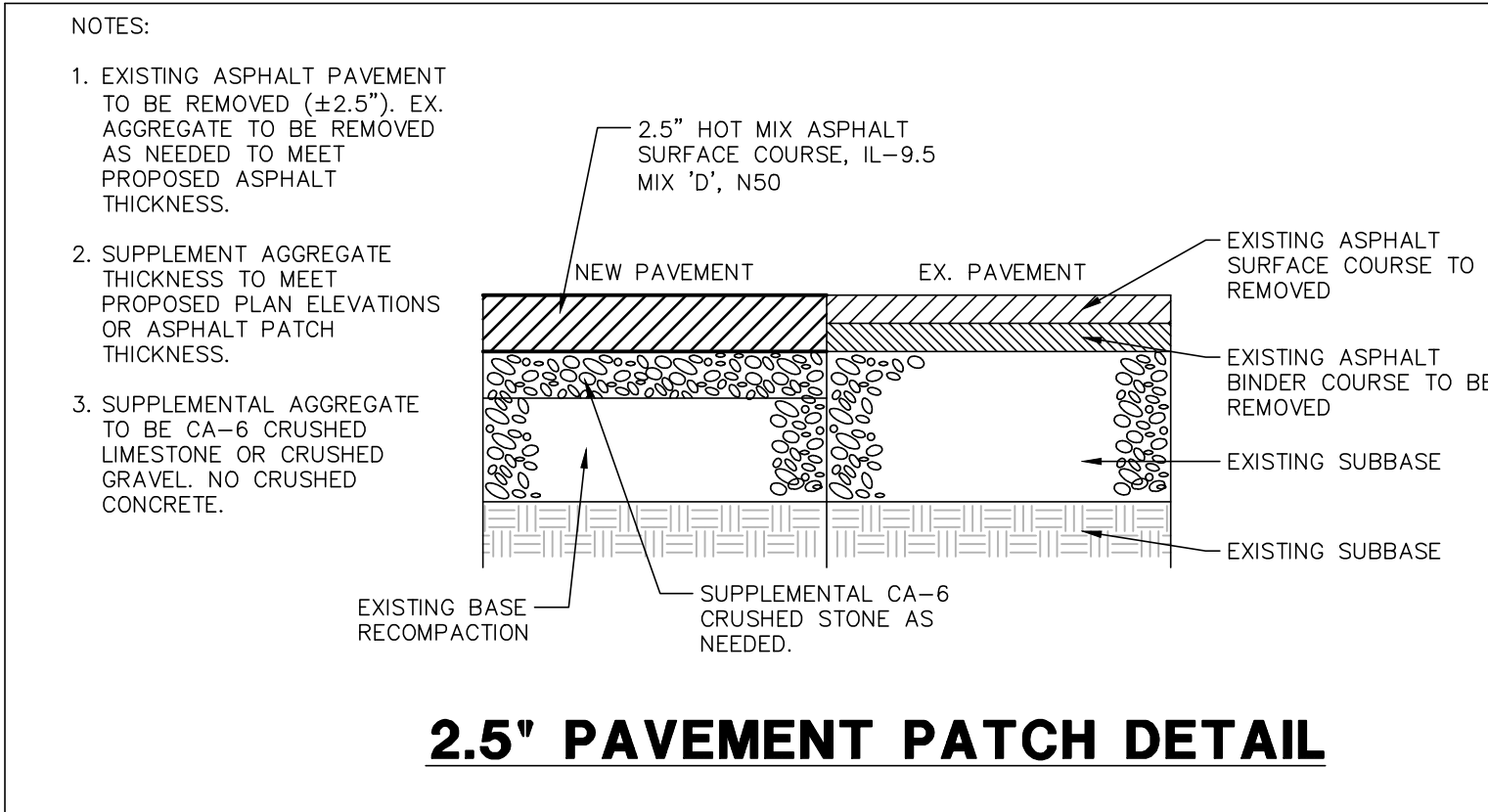
PAINTED SYMBOL



EXPANSION JOINT DETAIL



PCC SIDEWALK DETAIL



2.5' PAVEMENT PATCH DETAIL

NO.	BY	DATE	REVISION

11	40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	TN	<u>100⁻</u>	270.0	<u>27,000⁻</u>
12	44000157	Hot-Mix Asphalt Surface Removal, 2"	SY	<u>4⁻</u>	1,000.0	<u>4,000⁻</u>
13	44201690	Class D Patches, Type I, 4 Inch	SY	<u>35⁻</u>	310.0	<u>10,850⁻</u>
14	67100100	Mobilization	LS	<u>3,000⁻</u>	1.0	<u>3,000⁻</u>
15	X7010216	Traffic Control & Protection, (Special)	LS	<u>1,126⁻</u>	1.0	<u>1,126⁻</u>
16	-	Temporary Portable Restroom Facility	CAL MO	<u>250⁻</u>	2.0	<u>500⁻</u>

Item 5 Total – Revised 7/16/18

69,900.00

Sixty Nine Thousand Nine Hundred and 00/100 Dollars

ADA Related Costs

Item 6: JUNIPER PARK

Item#	Pay Item	Description	Unit	Unit Price	Site Civil Quantities	Cost
1	20101000	Temporary Fence	FT	<u>3⁻</u>	200.0	<u>600⁻</u>
2	20101100	Tree Trunk Protection	EA	<u>125⁻</u>	2.0	<u>250⁻</u>
3	20201200	Removal and Disposal of Unsuitable Material	CY	<u>25⁻</u>	50.0	<u>1,250⁻</u>
4	21101600	Topsoil Furnish and Place, Variable Depth	SY	<u>8⁻</u>	350.0	<u>2,800⁻</u>
5	25000110	Seeding, Class 1A	AC	<u>3,100⁻</u>	0.10	<u>310⁻</u>
6	25000400	Nitrogen Fertilizer Nutrient	LBS	<u>4.25</u>	9.0	<u>38.25</u>
7	25000600	Potassium Fertilizer Nutrient	LBS	<u>4.25</u>	9.0	<u>38.25</u>
8	25100127	Mulch, Method 3A	AC	<u>5,200⁻</u>	0.1	<u>520⁻</u>
9	25200200	Supplemental Watering	UN	<u>57.75</u>	10.0	<u>577.50</u>
10	28000400	Perimeter Erosion Barrier	FT	<u>3.50</u>	200.0	<u>700⁻</u>
11	28000510	Inlet filters	EA	<u>200⁻</u>	1.0	<u>200⁻</u>
12	30300001	Aggregate Subgrade Improvement	CY	<u>30⁻</u>	50.0	<u>1,500⁻</u>
13	35101582	Aggregate Base Course, Type B 2"	SY	<u>3⁻</u>	460.0	<u>1,380⁻</u>
14	40600290	Bituminous Material (Tack Coat)	LBS	<u>.01</u>	475.0	<u>4.75</u>
15	40600982	Hot-Mix Asphalt Surface Removal - Butt Joint	SY	<u>5⁻</u>	220.0	<u>1,100⁻</u>
16	40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	TN	<u>100⁻</u>	180.0	<u>18,000⁻</u> \$2,423
17	42400200	Portland Cement Concrete Sidewalk, 5"	SF	<u>7.25</u>	4,100.0	<u>29,725⁻</u> \$13,050
18	42400800	Detectable Warnings	SF	<u>37.25</u>	16.0	<u>596⁻</u>
19	44000500	Combination Curb and Gutter Removal	FT	<u>10⁻</u>	15.0	<u>150⁻</u>
20	44000600	Sidewalk Removal	SF	<u>3⁻</u>	80.0	<u>240⁻</u>
21	44201690	Class D Patches, Type I, 4 Inch	SY	<u>35⁻</u>	100.0	<u>3,500⁻</u>
22	60300105	Frames and Grates To Be Adjusted	EA	<u>1,000⁻</u>	1.0	<u>1,000⁻</u>
23	60603800	Combination Concrete Curb & Gutter, Type B-6.12	FT	<u>55⁻</u>	15.0	<u>825⁻</u>
24	67100100	Mobilization	LS	<u>7,500⁻</u>	1.0	<u>7,500⁻</u> \$2,000
25	72000100	Sign Panel - Type 1	SF	<u>25⁻</u>	4.0	<u>100⁻</u>
26	72400100	Remove Sign Panel Assembly - Type A	EA	<u>75⁻</u>	2.0	<u>150⁻</u>
27	72900100	Metal Post - Type A	FT	<u>25⁻</u>	30.0	<u>750⁻</u>
28	78001100	Paint Pavement Markings - Letters & Symbols	SF	<u>10⁻</u>	7.0	<u>70⁻</u>
29	78001110	Paint Pavement Markings - 4"	FT	<u>.75</u>	680.0	<u>510⁻</u>
30	X0300019	Remove and Reinstall Parking Blocks, (Special)	EA	<u>35⁻</u>	32.0	<u>1,120⁻</u>
31	X0301430	Precast Concrete Parking Block, (Special)	EA	<u>100⁻</u>	1.0	<u>100⁻</u>
32	X7010216	Traffic Control & Protection, (Special)	LS	<u>2,582.75</u>	1.0	<u>2,582.75</u>
33	-	Earth Excavation - Juniper Base Bld, (Special)	LS	<u>7,500⁻</u>	1.0	<u>7,500⁻</u>
34	-	Pulverization, 5" - Stockpile Onsite, (Special)	SY	<u>7.50</u>	475.0	<u>3,562.50</u>

35	-	Remove and Re-Install Bollard, (Special)	EA	<u>1,000⁻</u>	1.0	<u>1,000⁻</u>
36	-	Remove and Re-Install Furniture, (Special)	EA	<u>250⁻</u>	5.0	<u>1,250⁻</u>
37	-	Temporary Concrete Washout	EA	<u>1,000⁻</u>	1.0	<u>1,000⁻</u>
38	-	Temporary Portable Restroom Facility	CAL MO	<u>200⁻</u>	4.0	<u>800⁻</u>
39	-	Stabilized Construction Entrance	SY	<u>10⁻</u>	160.0	<u>1,600⁻</u>

Item 6 Total – 7/16/18

94,900.00

Ninety Four Thousand Nine Hundred and 00/100 Dollars

JUNIPER PARK - Alternate #2

Item#	Pay Item	Description	Unit	Unit Price	Site Civil	Cost
					Quantities	
1	20201200	Removal and Disposal of Unsuitable Material	CY	<u>25⁻</u>	40.0	<u>1,000⁻</u>
2	21101600	Topsoil Furnish and Place, Variable Depth	SY	<u>10⁻</u>	210.0	<u>2,100⁻</u>
3	25000110	Seeding, Class 1A	AC	<u>3,100⁻</u>	0.10	<u>310⁻</u>
4	25000400	Nitrogen Fertilizer Nutrient	LBS	<u>4.25</u>	9.0	<u>38.25</u>
5	25000600	Potassium Fertilizer Nutrient	LBS	<u>4.25</u>	9.0	<u>38.25</u>
6	25100127	Mulch, Method 3A	AC	<u>5,200⁻</u>	0.1	<u>520⁻</u>
7	28000400	Perimeter Erosion Barrier	FT	<u>3.50</u>	130.0	<u>455⁻</u>
8	28000510	Inlet filter	EA	<u>175⁻</u>	1.0	<u>175⁻</u>
9	30300001	Aggregate Subgrade Improvement	CY	<u>30⁻</u>	40.0	<u>1,200⁻</u>
10	35101600	Aggregate Base Course, Type B 4"	SY	<u>5⁻</u>	105.0	<u>525⁻</u>
11	42400200	Portland Cement Concrete Sidewalk, 5"	SF	<u>7.75</u>	920.0	<u>7,130⁻</u>
12	42400800	Detectable Warnings	SF	<u>40⁻</u>	10.0	<u>400⁻</u>
13	44000100	Pavement Removal	SY	<u>25⁻</u>	10.0	<u>250⁻</u>
14	44000500	Combination Curb and Gutter Removal	FT	<u>10⁻</u>	22.0	<u>220⁻</u>
15	60600605	Concrete Curb, Type B	FT	<u>56⁻</u>	18.0	<u>1,008⁻</u>
16	60603800	Combination Concrete Curb & Gutter, Type B-6.12	FT	<u>51⁻</u>	30.0	<u>1,530⁻</u>
17	-	Bollard & Foundation Removal	EA	<u>150⁻</u>	1.0	<u>150⁻</u>
18	-	Earth Excavation - Juniper Alternate 1, (Special)	LS	<u>2,950.50</u>	1.0	<u>2,950.50</u>

Alternate 2 Total – Revised 7/16/18

20,000.00

Twenty Thousand and 00/100 Dollars

JUNIPER PARK - Alternate #3

Item#	Pay Item	Description	Unit	Unit Price	Site Civil	Cost
					Quantities	
1	-	Concrete Ribbon Curb, Special	FT	<u>35⁻</u>	120.0	<u>4,200⁻</u>
2	-	Remove And Replace Backstop Chain Link, Special	EA	<u>15,000⁻</u>	1.0	<u>15,000⁻</u>

