



**KENDALL COUNTY
STORMWATER MANAGEMENT OVERSIGHT COMMITTEE
PUBLIC HEARING**

111 West Fox Street • Room 209 and 210 • Yorkville, IL • 60560
(630) 553-4141 Fax (630) 553-4179

AGENDA

October 10, 2024 – 4:00 p.m.

CALL TO ORDER

ROLL CALL: Zach Bachman, Brian DeBolt, Elizabeth Flowers, Scott Gengler (Vice-Chair), Matt Kellogg (Chair), Dan Koukol, Jason Peterson, Ruben Rodriguez, Brooke Shanley, and Seth Wormley

APPROVAL OF AGENDA (VV)

APPROVAL OF MINUTES (VV) June 18, 2024, Public Hearing/Meeting (Pages 2-20)

PUBLIC COMMENT

OPEN OF STORMWATER MANAGEMENT OVERSIGHT COMMITTEE PUBLIC HEARING (Roll Call Vote)

ITEMS OF BUSINESS FOR PUBLIC HEARING (Discussion)

1. Comments on Stormwater Management Related Regulations and Enforcement (Pages 21-31)
2. Proposed Changes to the Kendall County Stormwater Management Ordinance (Page 22, Item 9)

CLOSE OF STORMWATER MANAGEMENT OVERSIGHT COMMITTEE PUBLIC HEARING (Roll Call Vote)

OTHER BUSINESS

ADJOURNMENT (VV)

If special accommodations or arrangements are needed to attend this County meeting, please contact the Administration Office at 630-553-4171, a minimum of 24-hours prior to the meeting time.

**KENDALL COUNTY
STORMWATER OVERSIGHT COMMITTEE
PUBLIC HEARING
*Kendall County Office Building
Rooms 209 & 210
111 W. Fox Street, Yorkville, Illinois*
Meeting Minutes of June 18, 2024 – Unofficial Until Approved
9:00 a.m.**

CALL TO ORDER

Chairman Kellogg called the Stormwater Oversight Committee Public Hearing to order at 9:00 a.m.

ROLL CALL

Committee Members Present: Zach Bachman, Brian DeBolt, Elizabeth Flowers, Scott Gengler, Matt Kellogg, Dan Koukol, Jason Peterson, Ruben Rodriguez, Brooke Shanley, and Seth Wormley

Committee Members Absent: None

Also present: Matt Asselmeier, Eric Weis, Christina Burns, Greg Chismark, and David Guritz

APPROVAL OF AGENDA

Member DeBolt made a motion, seconded by Member Peterson, to approve the agenda as presented. With a voice vote of ten (10) ayes, the motion carried.

APPROVAL OF MINUTES

Member Bachman made a motion, seconded by Member Rodriguez, to approve the minutes of the October 12, 2023, public hearing and meeting. With a voice vote of ten (10) ayes, the motion carried.

PUBLIC COMMENT

None

OPEN OF STORMWATER MANAGEMENT OVERSIGHT COMMITTEE PUBLIC HEARING

Chairman Kellogg opened the Stormwater Management Oversight Committee Public Hearing at 9:01 a.m.

ITEMS OF BUSINESS FOR PUBLIC HEARING

Petition 24-15 Kendall County Forest Preserve District

Mr. Asselmeier summarized the request.

The Petitioner requested a variance that allows exclusion of the impervious trail sections of the Subat Forest Preserve Nature Center Project in the calculation of total impervious improvements

resulting in no stormwater detention requirement for the project. The Petitioner requests a variance from site runoff storage requirements to avoid unnecessary disturbance of restored prairie habitats and native trees that reside within Subat Forest Preserve.

Per the application, “the project has an impervious area of 36,850 sf. Under current project conditions, the Ordinance requires detention for developments resulting in an impervious area of greater than 32,000 sf. The trail section of the project constitutes 19,930 sf of impervious area or approximately 54% of the total impervious area of the project.”

Greg Chismark, from WBK Engineering, reviewed the proposal and recommended approval. There were four (4) items that needed to be resolved and these were resolved. The site plan will be amended to have the site plan contained to the stormwater management serve as the site plan for the site.

The property previously obtained stormwater permits in 2003 for the installation of the parking lot, picnic shelter, and overlook platform and in 2005 for wetland restoration.

Based on the information provided by the Petitioner and WBK, Staff believes that the following findings of fact as required by Section 904.1 of the Kendall County Stormwater Management Ordinance have been met:

1. The variance will not increase the probability of flood damage or create an additional threat to the public health, safety or welfare.
2. The variance requested is the minimum relief necessary to accomplish the objectives of the development without compromising the objectives of Section 102 of the Kendall Stormwater Management Ordinance.
3. The variance will not result in a reduction of water quality benefits as compared to compliance with ordinance requirements.
4. The variance is not requested solely for the purpose of reducing site runoff storage requirements.
5. The variance shall not cause conveyance of stormwater from the project to increase peak discharges beyond design capacity of existing offsite conveyance facilities for any storm event from the 2-year to the 100-year recurrence frequency.
6. The variance shall seek to preserve valuable environmental and biological resources including but not limited to stands of native trees, existing wetlands and natural floodplain storage.

Staff recommended approval of the variance.

The application materials, letter from WBK Engineering, and proposed ordinance were provided.

Member DeBolt made a motion, seconded by Member Koukol, to forward the proposal to the County Board. With a voice vote of ten (10) ayes, the motion carried.

This proposal will go to the County Board on June 18, 2024.

CLOSE OF ANNUAL STORMWATER MANAGEMENT OVERSIGHT COMMITTEE PUBLIC HEARING

Chairman Kellogg closed the Stormwater Management Oversight Committee Public Hearing at 9:04 a.m.

OTHER BUSINESS

None

ADJOURNMENT

Member Gengler made a motion, seconded by Member Flowers, to adjourn the meeting. With a voice vote of ten (10) ayes, the motion carried. The Stormwater Management Oversight Committee adjourned at 9:04 a.m.

Respectfully submitted,
Matthew H. Asselmeier, AICP, CFM
Director

Enc.

June 14, 2024

Kendall County Department of Planning, Building, & Zoning
111 West Fox Street
Yorkville, Illinois, 60560

**SUBJECT: Subat Nature Center
Kendall County Forest Preserve District
ERA Project #W23229.00
Comments Received June 4, 2024**

ERA submits the following responses to the stormwater management permit application comments dated May 30, 2024, received via email on June 4, 2024.

1. Comment: Stormwater report – The boardwalk spans a significant drainageway with an upstream area that appears to exceed one square mile. While this is not floodplain please verify the boardwalk will not have an adverse impact on Eldamain Road. (See attached Streamstats Report)

Response: The roadbed / berm grade and elevation of Eldamain Road north of River Road at the drainage culvert is raised several feet higher than the maximum grade of the delineated wetland at Subat. The proposed boardwalk will not have an adverse impact on Eldamain Road. The 100-year Water Surface Elevation (WSE) was calculated to be 608.35' and the low chord of the board walk will be elevated above WSE. Please see the attached calculations.

2. Comment: We have no objections to access to Eldamain Road. Please verify Kendall County Highway Department concurrence.

Response: The executed variance is attached.

3. Comment: L401 – Verify adequate cover over the 12" RCP at the northernmost access to Eldamain. Revise as necessary.

Response: There was a typo in the elevation call out. The plans have been revised please see attached.

4. Comment: L501 – The Boardwalk detail depicts the 100-year flood elevation. We concur with the concept presented in the detail. Provide the 100-year flow elevation as well as the basis for determining that elevation at the boardwalk.

Response: The 100-year Water Surface Elevation (WSE) was calculated to be 608.35' and the low chord of the board walk will be elevated above WSE. The low point of the ground surface beneath the boardwalk is 606.9'. The boardwalk cannot exceed 30" from the surface without providing a handrail, therefore the top of the boardwalk shall be at elevation 609.4'. The low chord cannot be elevated any higher than the WSE as the depth of the structure is 12.5".

ERA looks forward to the County's review of these comment responses. Please contact me with any questions or concerns at 630 393-3060 or jmayer@eraconsultants.com.

Respectfully submitted,
Engineering Resource Associates, Inc.



John F. Mayer, PE, CFM
Project Manager

Attachment 1 – Executed variance
Attachment 2 – Revised plans

Mannings Equation Analysis

version 17, Sep 2016

Subat Nature Center Boardwalk

cross-section data:

station	elevation	n-value
0	609	0.04
0	608	0.04
6.4	607.5	0.04
14.7	607.6	0.04
45.9	607	0.04
62.6	606.7	0.04
73.6	606.9	0.04
114.8	606.9	0.04
123.1	607	0.04
148	607.4	0.04
178	607.3	0.04
198	608	0.04
198	609	0.04

w.s. elev flow area wetted P hydr. radius top width hydr. depth n value darcy-weis. f conveyance discharge velocity shear

$$V = \frac{1.486}{n} R^{2/3} S^{1/2}$$

unit system: **en**
 auto scale: **yes**

hydraulic properties for given water surface elevation:

w.s. elev	flow area	wetted P	hydr. radius	top width	hydr. depth	n value	darcy-weis. f	conveyance	discharge	velocity	shear
608.35	229.3	198.9	1.15	198	1.16	0.040	0.1709	9560	302.3	1.32	0.072

profile slope=
0.00100

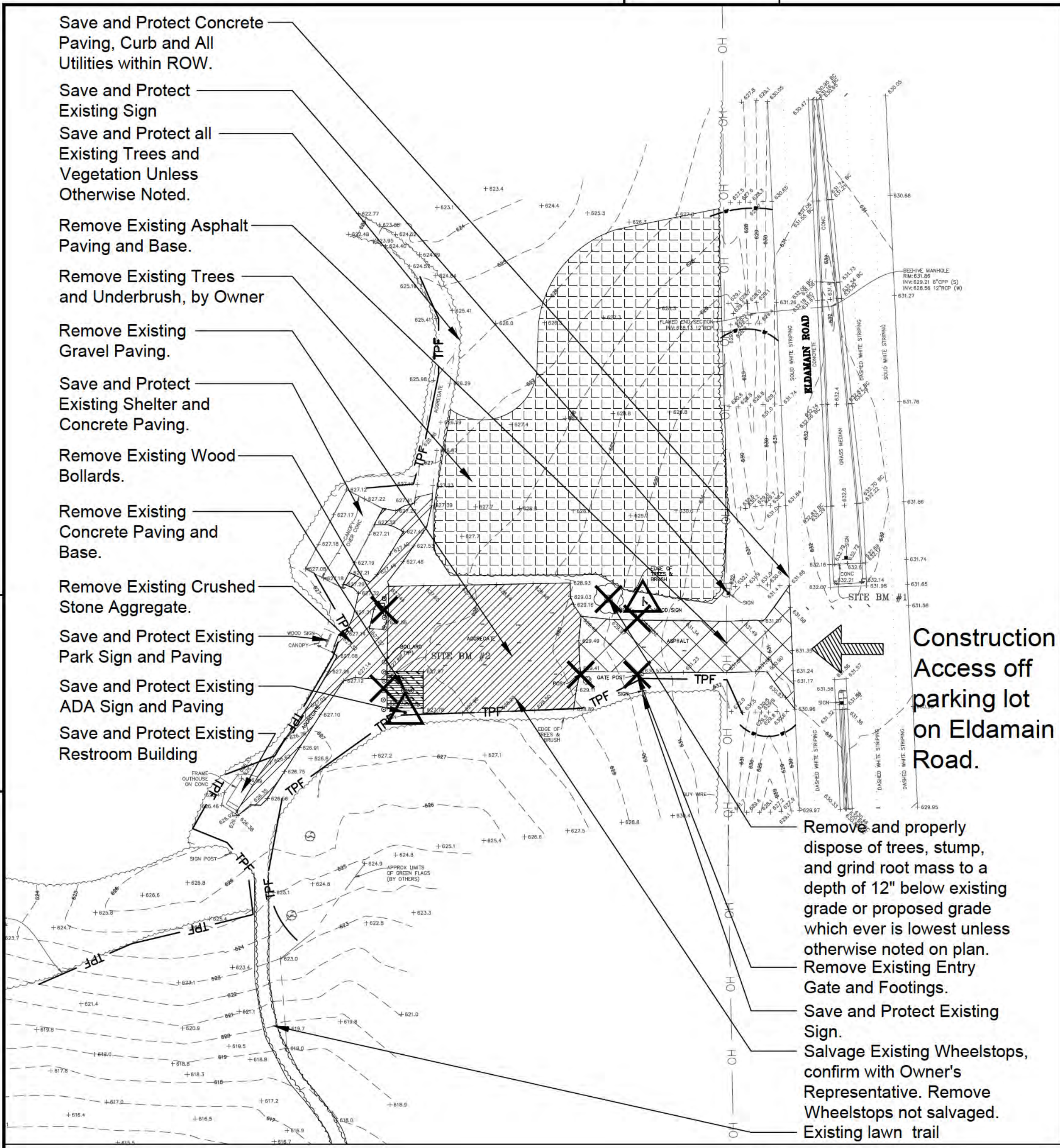
bank stations: left right
 14.7 **178.0**

hydraulic properties rating table:

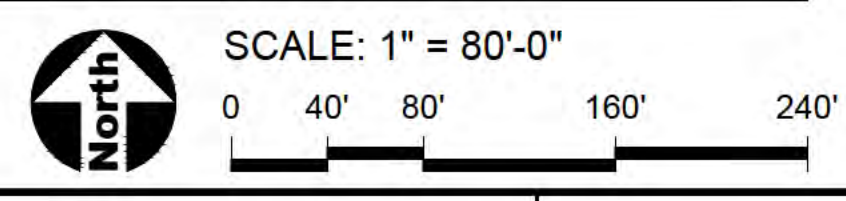
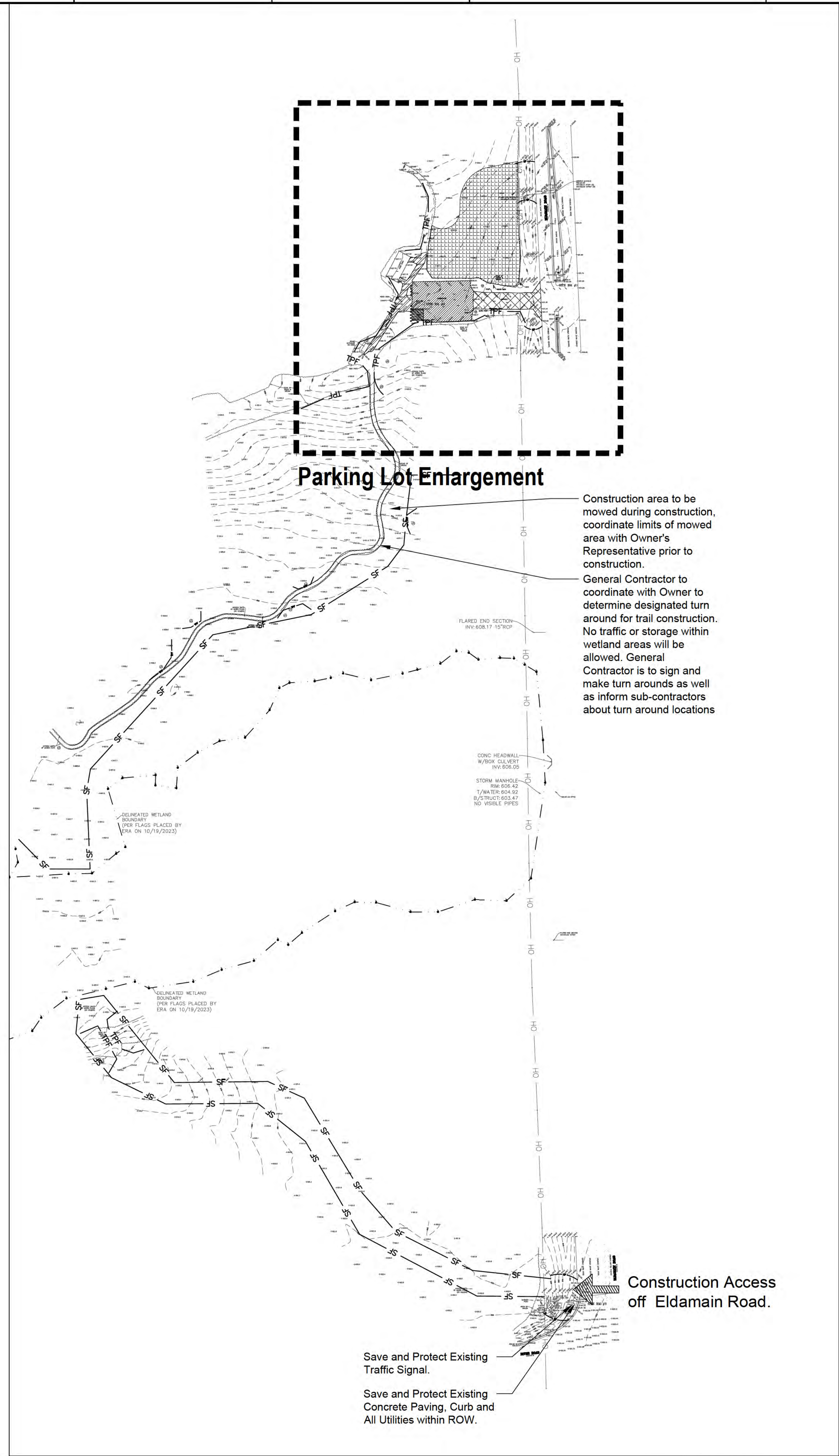
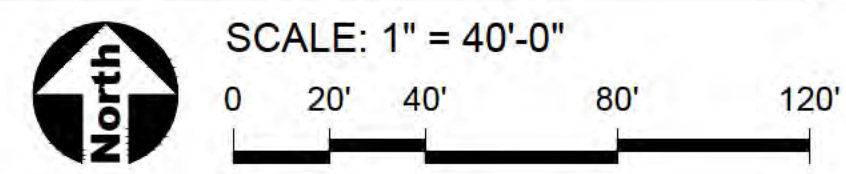
w.s. elev	flow area	wetted P	hydr. radius	top width	hydr. depth	n value	darcy-weis. f	conveyance	discharge	velocity	shear
609.00	358.0	200.0	1.79	198	1.81	0.040	0.1506	19811	626.5	1.75	0.112
608.50	259.0	199.0	1.30	198	1.31	0.040	0.1655	11660	368.7	1.42	0.081
608.00	160.0	198.0	0.81	198	0.81	0.040	0.1855	5361	169.5	1.06	0.050
607.50	66.9	163.8	0.41	164	0.41	0.040	0.2453	1385	43.8	0.65	0.025
607.00	9.24	77.2	0.12	77.2	0.12	0.040	0.3788	83.4	2.64	0.29	0.007
606.70	0.0	0.0	0.00	0.0	0.00	0.040	0.2453	0.00	0.00	0.00	0.000

Subat Nature Center Boardwalk





Parking Lot Enlargement



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.L.L.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.
- Contours and elevations shown hereon are referenced to the North American vertical datum of 1988 (navd88).
- A Topographic Survey was completed for the Owner by: J.L.H. Land Surveying, Inc. 910 Geneva Street Shorewood, Illinois 60404 Phone: 815-729-4000
- 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 noted 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.
- Topsoil may be stockpiled for redistribution as needed. Excess topsoil, 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 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 and all subcontractors shall register and pay associated fees to the Building Department. Contractor is responsible for following permit requirements including coordination of inspections and/or reinspections and associated fees.
- Contractor shall follow all permit requirements as part of the project.

PROJECT BENCHMARK

- | | |
|---|---|
| SITE BENCHMARK #1
Set out cross on concrete median in Eldamain Road near the entrance of Subat Forest Preserve.
Elevation: 632.78 (NAVD 88) | SITE BENCHMARK #3
Set out cross at the Northwest corner of concrete pad near the ADA ramp located at the Northwest corner of Eldamain Road and River Road.
Elevation: 621.28 (NAVD 88) |
| SITE BENCHMARK #2
Set out cross at the Northwest corner of concrete pad in aggregate parking area off the entrance to Subat Forest Preserve.
Elevation: 627.86 (NAVD 88) | |

REMOVALS LEGEND

- Remove Existing Asphalt Paving
- Remove Existing Concrete Paving
- Remove Existing Gravel Paving
- Remove Existing Crushed Aggregate Paving
- Remove Existing Vegetation
- Remove and properly dispose of trees, stump, and grind root mass to a depth of 12" below existing grade or proposed grade which ever is lowest unless otherwise noted on plan.
- Remove and Dispose of Item as Marked
- Salvage and Relocate Item as Marked
- Construction Limits
- TPF Tree Protection Fence
- Silt Fence

SURVEY LEGEND

- PROPERTY LINE
- LOT LINE/PARCEL LINE
- EX. SANITARY LINE
- EX. STORM LINE
- EX. WATER LINE
- EX. FENCE
- EX. OVERHEAD WIRE (APPROXIMATE LOCATION)
- EX. CONCRETE CURB & GUTTER
- EX. CONTOURS
- EX. FIRE HYDRANT
- EX. SPOT ELEVATION
- EX. CONIFEROUS TREE W/TRUNK SIZE IN INCHES
- EX. DECIDUOUS TREE W/TRUNK SIZE IN INCHES
- EX. BUSH

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Engineering Resource Associates
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Warrenville, Illinois 60555
IL License 184-001186



REVISED	DATE	BY	DESCRIPTION

JOB NO.	23-429-1495
DRAWN	EM
CHECKED	MK
APPROVED	MK

SHEET TITLE
EXISTING CONDITIONS & REMOVALS PLAN

SHEET NUMBER

L100



REVISED	DATE	BY

JOB NO.	23-429-1495
DRAWN	EM
CHECKED	MK
APPROVED	MK

SHEET TITLE
STORMWATER POLLUTION PREVENTION PLAN

SHEET NUMBER

L101

STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE BASIS DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS TEMPORARILY NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN IDOT STANDARD 280001.

SECTION 280, TEMPORARY EROSION CONTROL, OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

SITE DESCRIPTION
DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROJECT IS LOCATED IN SUBAT FOREST PRESERVE, KENDALL COUNTY, IL.
2. THE SUBAT FOREST PRESERVE PROJECT SHALL GENERALLY CONSIST OF THE FOLLOWING:
 - 1.) INSTALLATION OF NEW ASPHALT AND LIMESTONE WALKING PATHS;
 - 2.) REMOVAL AND REPLACEMENT/EXPANSION OF A PARKING LOT;
 - 3.) INSTALLATION OF PARKING LOT ENTRANCES ALONG ELDAMAN ROAD;
 - 4.) CULVERT INSTALLATION WITHIN THE ROADSIDE DITCH ALONG ELDAMAN ROAD AND THE NORTHWEST CORNER OF THE INTERSECTION OF ELDAMAN ROAD AND RIVER ROAD;
 - 5.) INSTALLATION OF A NATURE CENTER PAVILION AND ASSOCIATED CONCRETE PAD; AND
 - 6.) INSTALLATION OF A BOARDWALK

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTION OF THE CONSTRUCTION SITE:

1. INSTALL SILT FENCING, TREE PROTECTION FENCING, STABILIZED CONSTRUCTION ENTRANCE, AND TEMPORARY CONCRETE WASHOUT.
2. INSTALL FLARED END EROSION IMMEDIATELY FOLLOWING INSTALLATION OF CULVERTS.
3. SITE SHALL BE TEMPORARILY STABILIZED IMMEDIATELY FOLLOWING GRADING COMPLETION.
4. THE SITE SHALL BE SEEDING AND STABILIZED WITH EROSION CONTROL MAT UPON COMPLETION OF GRADING.
5. TEMPORARY EROSION CONTROL MEASURES WILL BE REMOVED FOLLOWING FINAL STABILIZATION.

AREA OF CONSTRUCTION SITE:
APPROXIMATELY 1.65 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS, WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BURNUPS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. ON-SITE WETLANDS

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

ENGINEER: _____ DATE: _____

SEDIMENT EROSION CONTROL AND POLLUTION PREVENTION NOTES:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL BE PROTECTED.
2. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STORAGE, PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS OR OTHER CONSTRUCTION RELATED ACTIVITIES.
3. CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS.
4. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
5. TEMPORARY SEDIMENT CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PERMANENT VEGETATION IS GROWING AND THRIVING.
6. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.
7. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.
8. THE EROSION CONTROL BLANKET AND/OR STRAW MULCH WITH NETTING (DEPENDENT ON SLOPE, SLOPE LENGTH AND FLOW RATES) SHALL BE INSTALLED ON ALL SLOPES AND IN CRITICAL AREAS (I.E. POND PERIMETER, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.
9. IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 7TH DAY AFTER WORK HAS CEASED.
10. WINTER STABILIZATION SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.
11. ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY, AND CLEANED WHEN NECESSARY AND AS DIRECTED BY ENGINEER.
12. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE MOST RECENT ILLINOIS URBAN MANUAL.
13. THE COUNTY MUST BE NOTICED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
14. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
15. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE COUNTY.
16. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE COUNTY.
17. NO WORK SHALL BE PERFORMED IN FLOWING WATER, WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
18. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
19. EXCAVATED AREAS SHALL BE PERMANENTLY SEEDING IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDING IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN (7) DAYS.
20. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 50 LBS/ACRES.
21. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY THE OWNER. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.
22. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY SEDIMENT CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.
23. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
24. ALL EROSION AND SEDIMENT CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
25. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF NATURAL VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
26. AREAS OF EXISTING VEGETATION, WOOD AND GRASSLANDS, OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
27. DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
28. BARE AND SPARSELY VEGETATED GROUND IN HIGH EROSION AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDING AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
29. THE SITE SHOULD BE PHASED IN A WAY THAT REDUCES THE AMOUNT OF STRIPPED, UNSTABILIZED AREAS WITHIN THE SITE AT ANY ONE TIME. MASS GRADING THE ENTIRE SITE SHOULD BE AVOIDED AS TO PREVENT EROSION ON SITE AND SEDIMENTATION ISSUES DOWNSTREAM.
30. BARRIER PROTECTION SHALL BE PLACED AT THE LIMITS OF SOIL DISTURBANCE FOR ALL UNDISTURBED WETLAND AREAS.

CONTRACTOR'S CERTIFICATION		OWNER'S CERTIFICATION	
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (LR 10) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	
SIGNATURE	TITLE	DATE	
COMPANY			
OWNER		OWNER	
SIGNATURE	TITLE	DATE	
COMPANY			

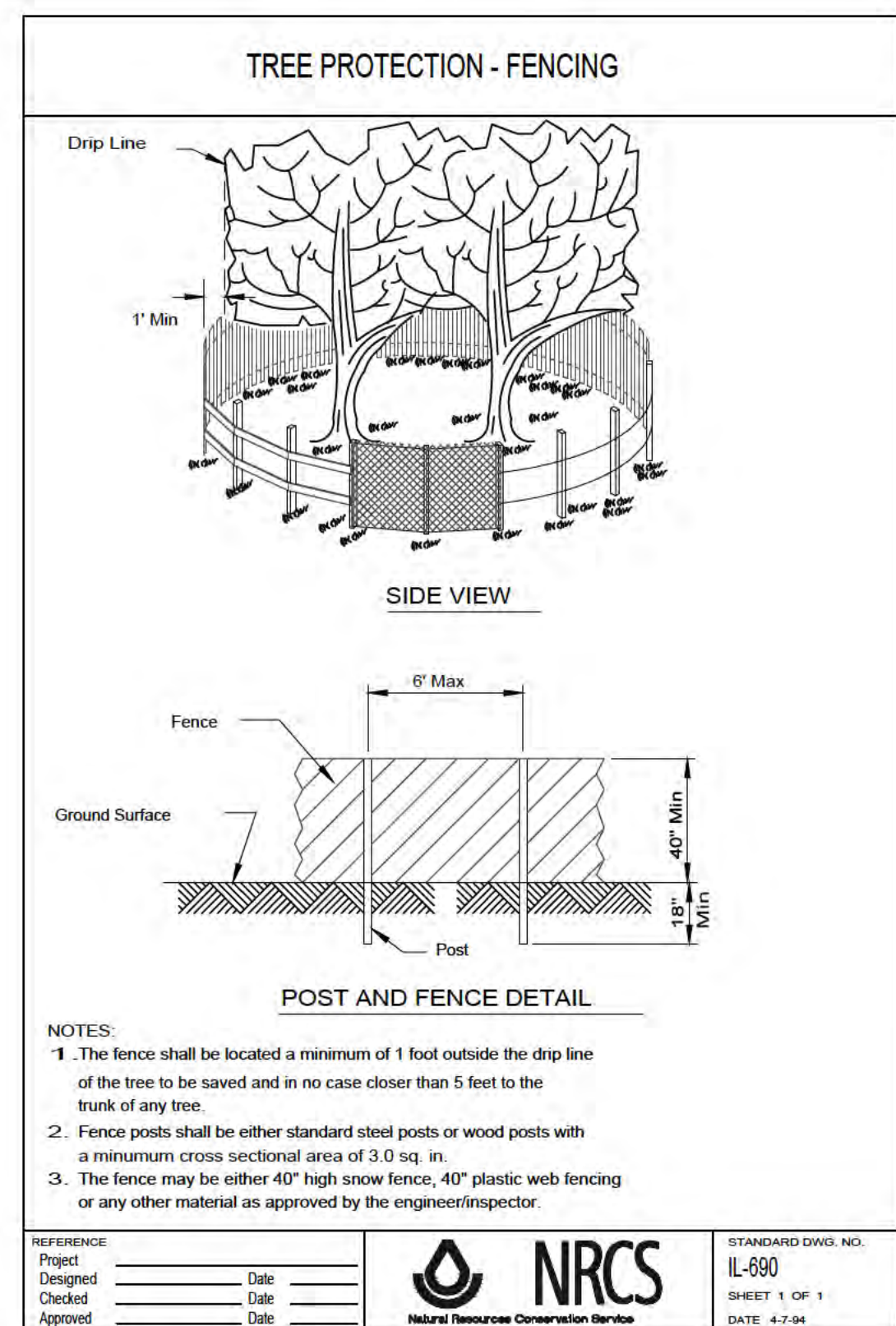
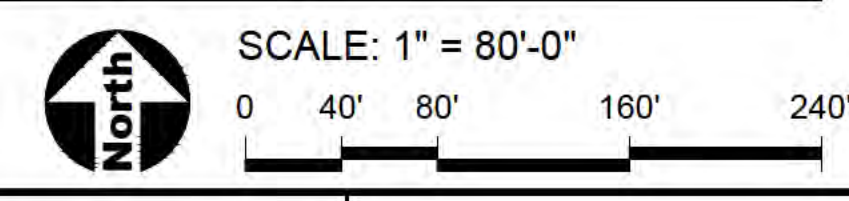
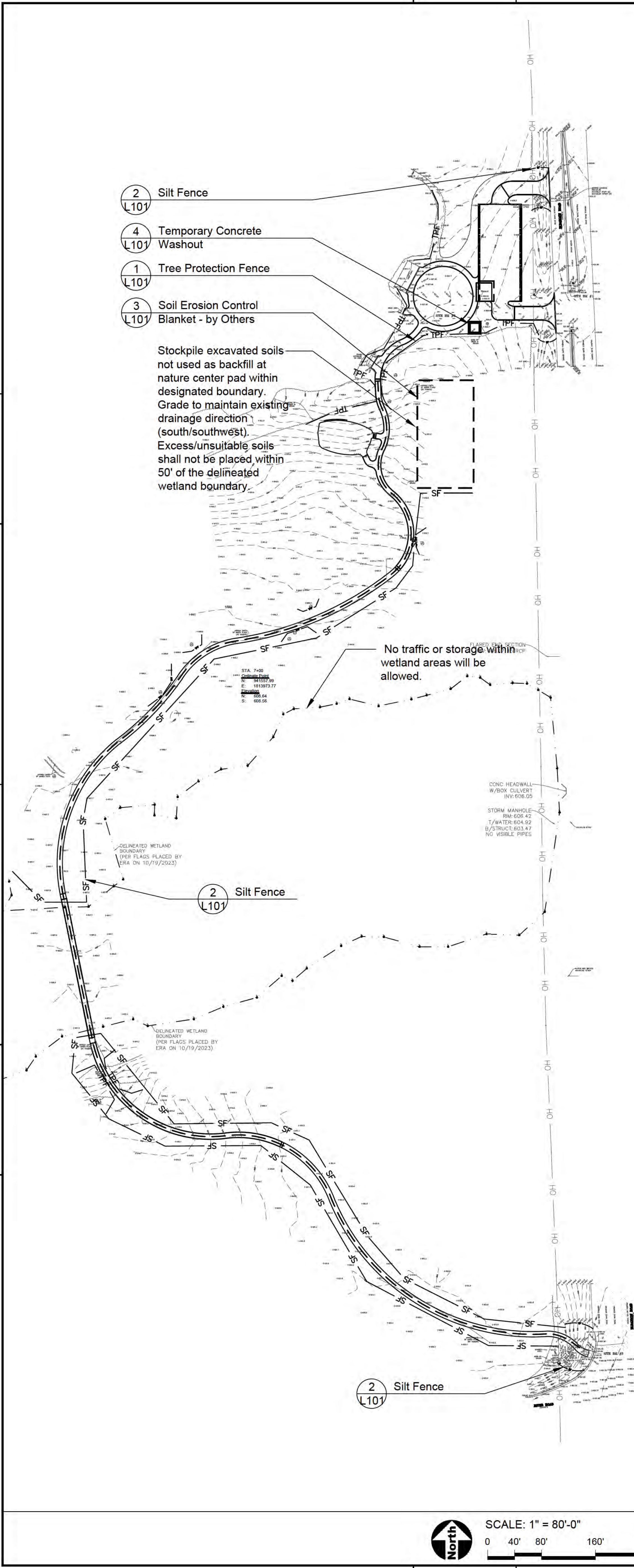
REMOVALS LEGEND

- TPF Tree Protection Fence
- SF Silt Fence

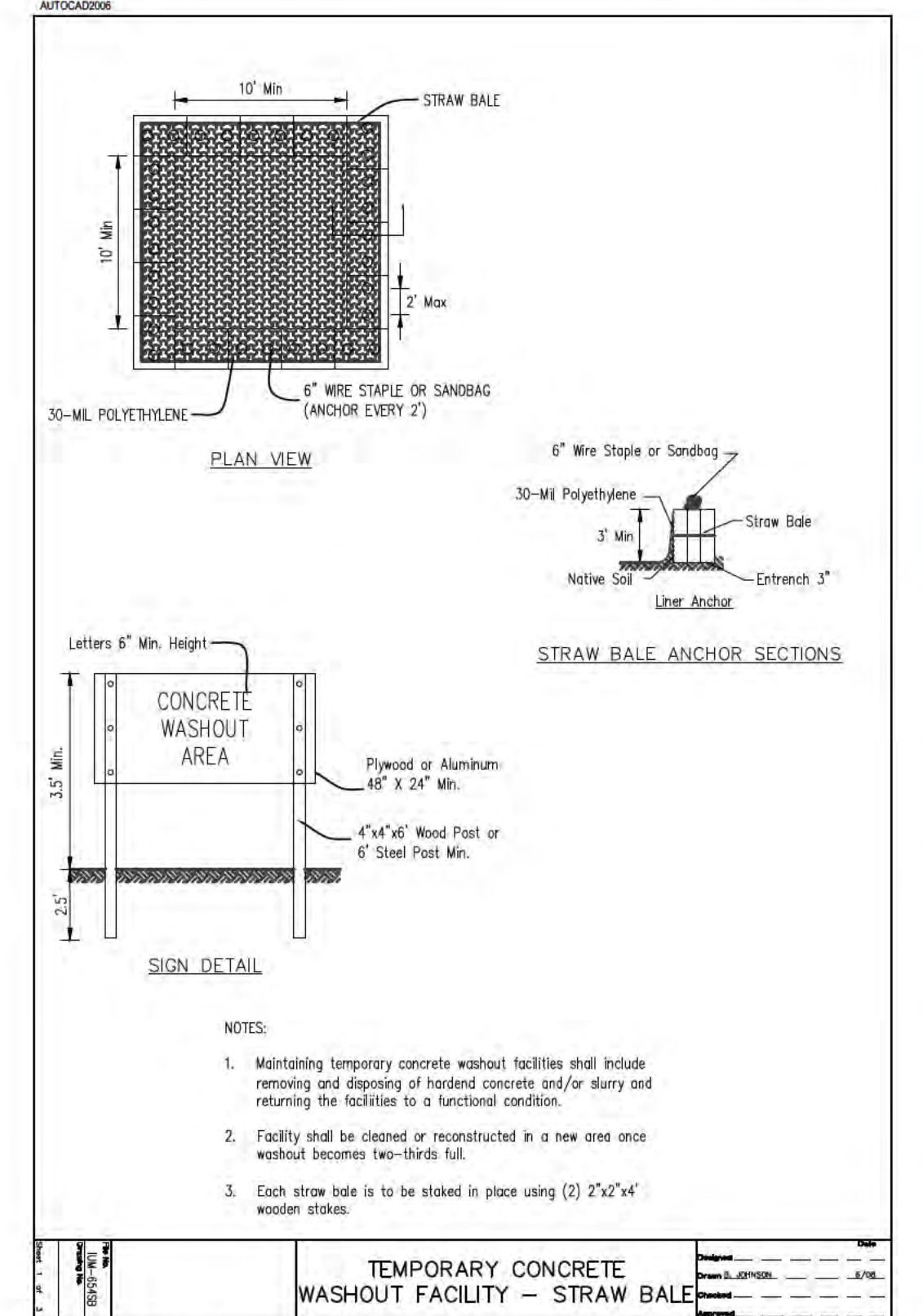
- 2 L101 Silt Fence
- 4 Temporary Concrete Washout
- 1 L101 Tree Protection Fence
- 3 L101 Soil Erosion Control Blanket - by Others

Stockpile excavated soils not used as backfill at nature center pad within designated boundary. Grade to maintain existing drainage direction (south/southwest). Excess/unsuitable soils shall not be placed within 50' of the delineated wetland boundary.

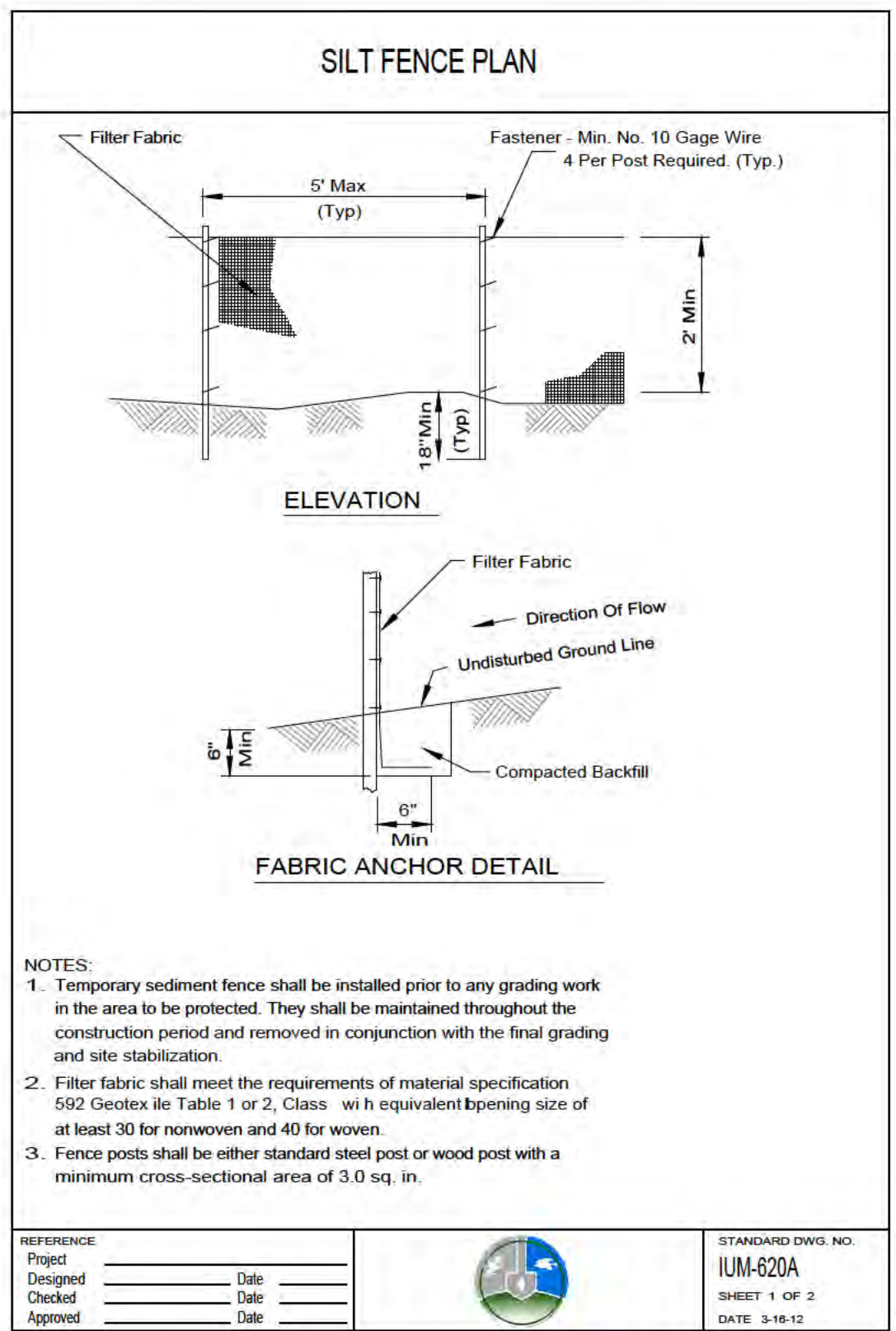
No traffic or storage within wetland areas will be allowed.



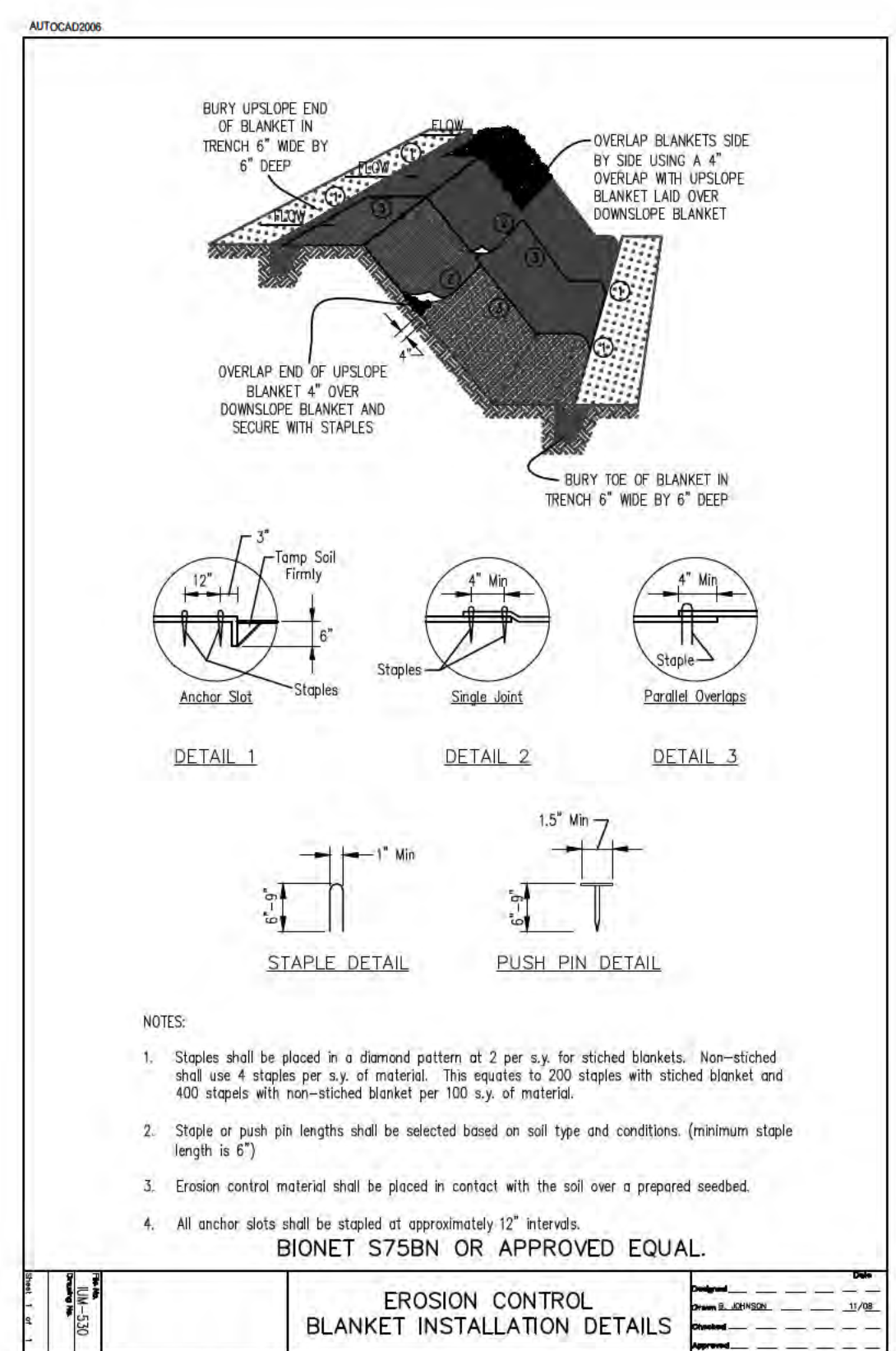
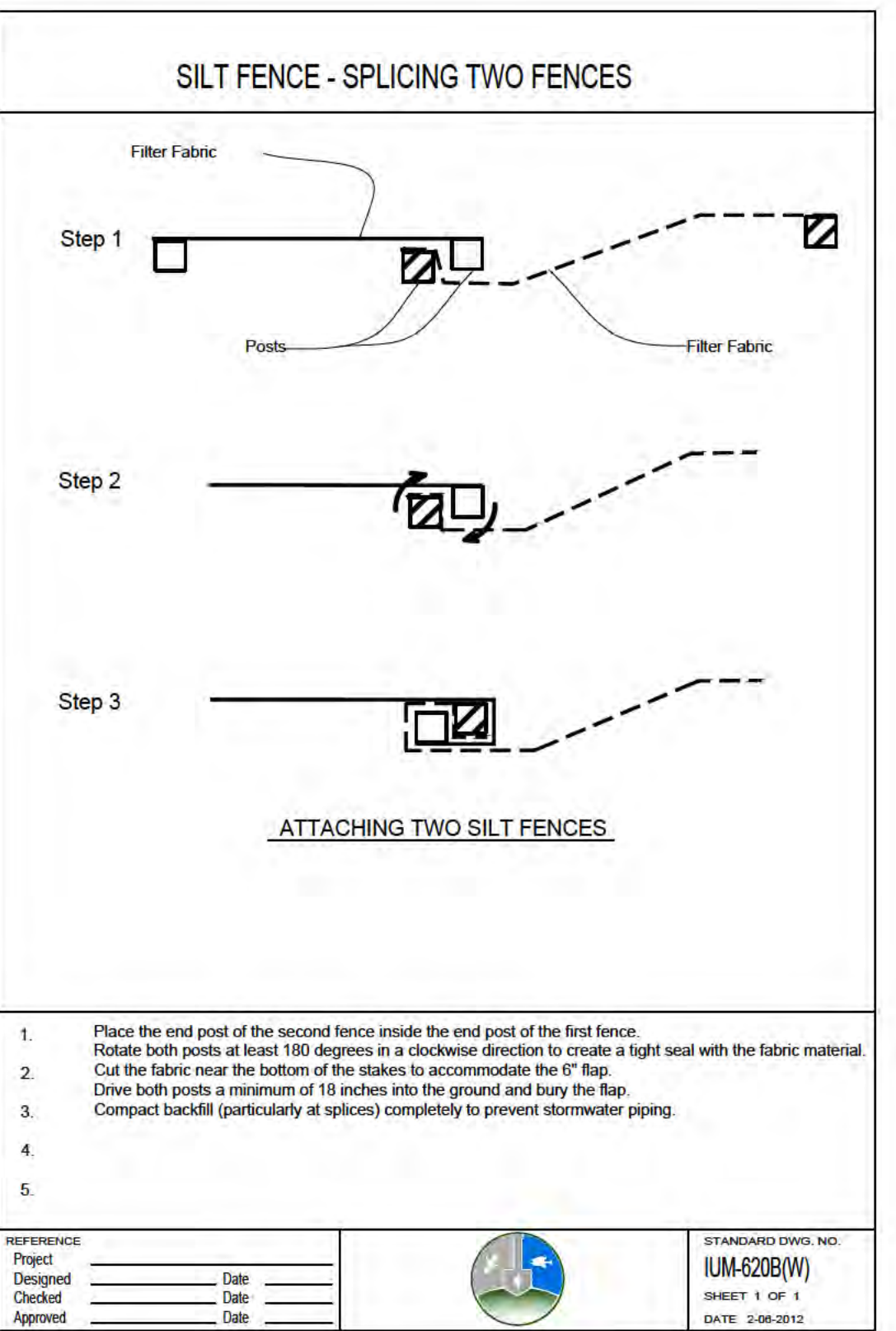
1 Tree Protection Fence
SCALE: NTS d-NRCS-1690-tree protection fence_12



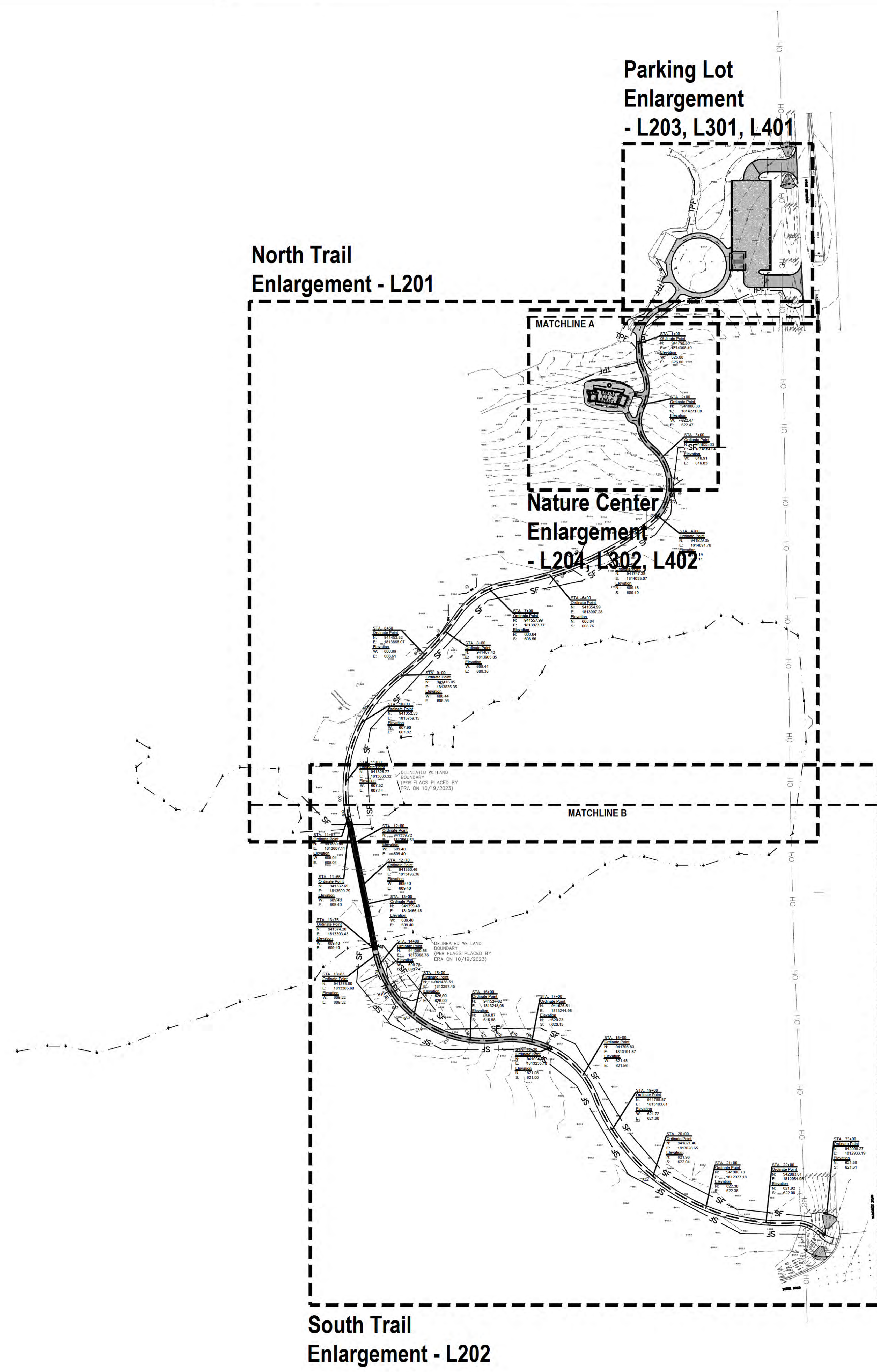
4 Temporary Concrete Washout
SCALE: NTS d-IUM-65458-concrete washout_12



2 Silt Fence
SCALE: NTS d-IUM 620B-silt fence_12



3 Erosion Control Blanket
SCALE: NTS d-IUM-530-erosion control blanket_12



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. 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 Americans with Disabilities Act and the Illinois Accessibility Code.
2. The Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control, and IEPA Standards and Specifications for Soil Erosion and Sedimentation Control.
3. U.S. Soil Conservation Service Field Engineering Handbook
4. All codes and ordinances of the City of Plano, United States Army Corp of Engineers, Illinois Department of Natural Resources, Kendall County Soil and Water Conservation Districts, and all agencies having jurisdiction.
5. All requirements of the Occupational Safety and Health Administration.
6. 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.
7. In case of conflict, the more restrictive provision shall apply.

GENERAL NOTES: DIMENSION

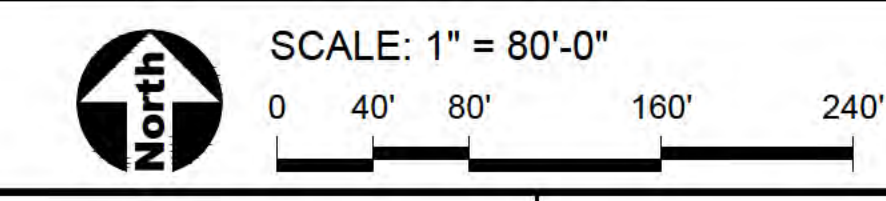
1. Paving radii shall be formed completely and shall smoothly transition into tangents and adjoining lines. Dimensions are to face of curb and edge of pavement unless otherwise specified.
2. Dimensions are in feet or degrees. Dimensions are perpendicular & parallel unless otherwise noted.
3. See Layout Plan, Sheet L300 for additional general notes and referenced specifications and codes.
4. 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.

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.
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. Transitions between paving types (i.e. concrete to asphalt) shall be smooth. Transitions not to exceed 1/4" vertical or horizontal difference.

LEGEND

- Asphalt Paving
- Concrete Paving
- Crushed Limestone Surfacing
- Gravel Surfacing
- Boardwalk
- EJ Concrete Expansion Joints
- Construction Limits / Construction Fence



NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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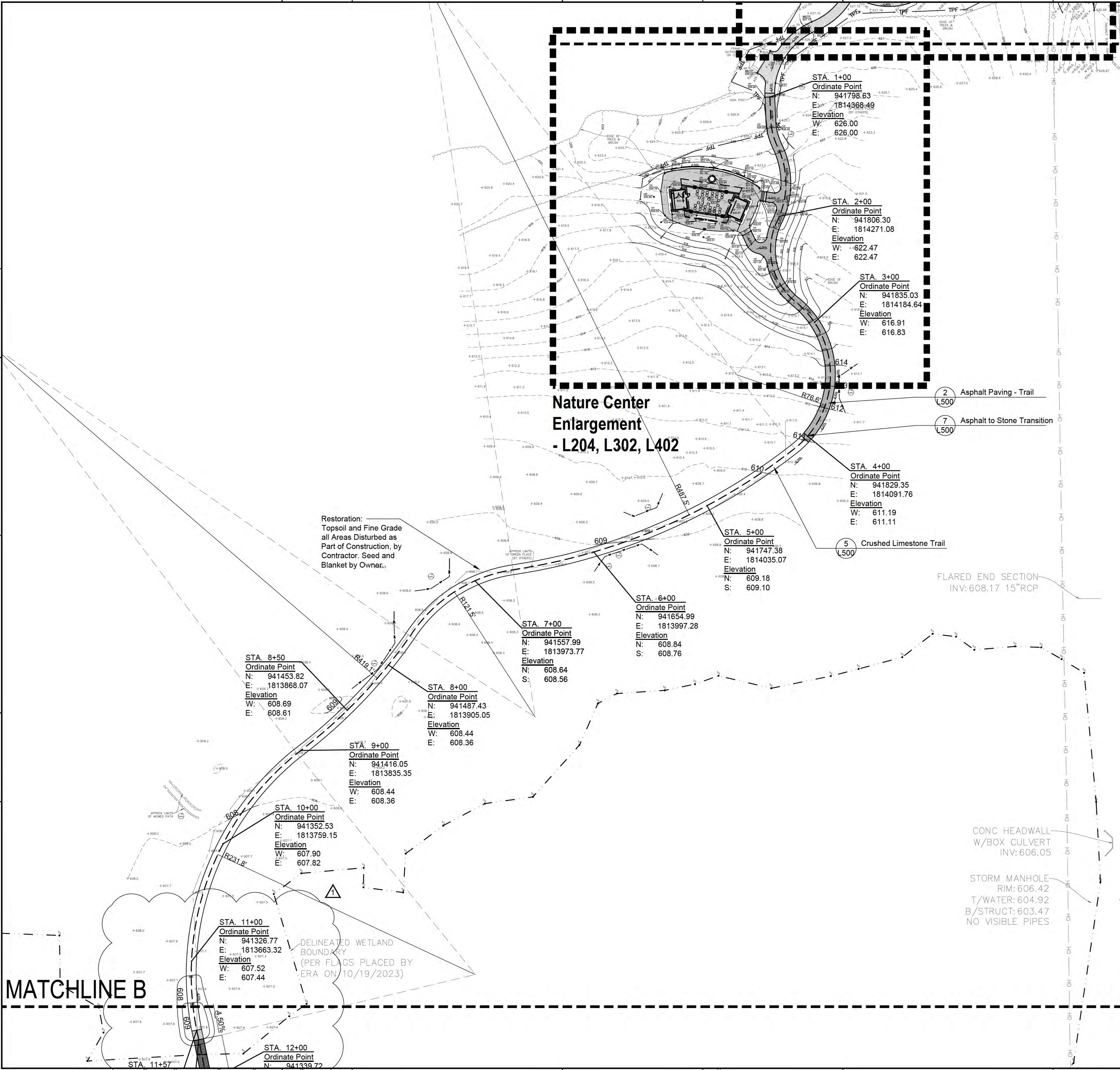
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DESIGNED	
CHECKED	
APPROVED	
DATE	
SCALE	
PROJECT	
SHEET NO.	23-429-1495
DRAWN	EM
CHECKED	MK
APPROVED	MK

SHEET TITLE
LAYOUT PLAN - OVERALL

SHEET NUMBER
L200



Nature Center Enlargement
- L204, L302, L402

Restoration:
Topsoil and Fine Grade
all Areas Disturbed as
Part of Construction, by
Contractor. Seed and
Blanket by Owner.

FLARED END SECTION
INV: 608.17 15"RCP

CONC HEADWALL
W/BOX CULVERT
INV: 606.05

STORM MANHOLE
RIM: 606.42
T/WATER: 604.92
B/STRUCT: 603.47
NO VISIBLE PIPES

DELINEATED WETLAND
BOUNDARY
(PER FLAGS PLACED BY
ERA ON 10/19/2023)

MATCHLINE B

- GENERAL NOTES: LAYOUT**
- See Sheet L200 for Notes
- REFERENCED SPECIFICATIONS AND CODES**
- See Sheet L200 for Notes
- GENERAL NOTES: DIMENSION**
- See Sheet L200 for Dimension Notes
- GENERAL NOTES: GRADING**
- See Sheet L200 for Grading Notes

STA. 1+00
Ordinate Point
N: 941798.63
E: 1814368.49
Elevation
W: 626.00
E: 626.00

STA. 2+00
Ordinate Point
N: 941806.30
E: 1814271.08
Elevation
W: 622.47
E: 622.47

STA. 3+00
Ordinate Point
N: 941835.03
E: 1814184.64
Elevation
W: 616.91
E: 616.83

STA. 4+00
Ordinate Point
N: 941829.35
E: 1814091.76
Elevation
W: 611.19
E: 611.11

STA. 5+00
Ordinate Point
N: 941747.38
E: 1814035.07
Elevation
N: 609.18
S: 609.10

STA. 6+00
Ordinate Point
N: 941654.99
E: 1813997.28
Elevation
N: 608.84
S: 608.76

STA. 7+00
Ordinate Point
N: 941557.99
E: 1813973.77
Elevation
N: 608.64
S: 608.56

STA. 8+00
Ordinate Point
N: 941487.43
E: 1813905.05
Elevation
W: 608.44
E: 608.36

STA. 9+00
Ordinate Point
N: 941416.05
E: 1813835.35
Elevation
W: 608.44
E: 608.36

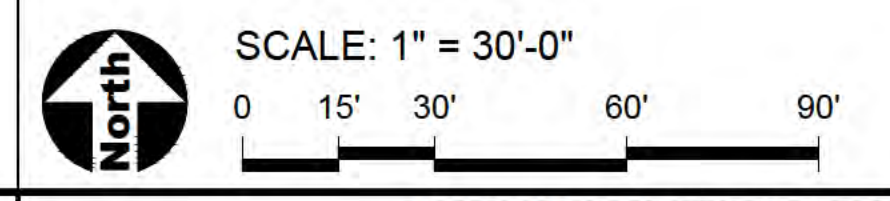
STA. 8+50
Ordinate Point
N: 941453.82
E: 1813868.07
Elevation
W: 608.69
E: 608.61

STA. 10+00
Ordinate Point
N: 941352.53
E: 1813759.15
Elevation
W: 607.90
E: 607.82

STA. 11+00
Ordinate Point
N: 941326.77
E: 1813663.32
Elevation
W: 607.52
E: 607.44

STA. 12+00
Ordinate Point
N: 941339.72

- LEGEND**
- Centerline of Trail/Boardwalk
 - Asphalt Paving
 - Concrete Paving
 - Crushed Limestone Surfacing
 - Gravel Surfacing
 - Boardwalk
 - EJ Concrete Expansion Joints
 - Construction Limits / Construction Fence



NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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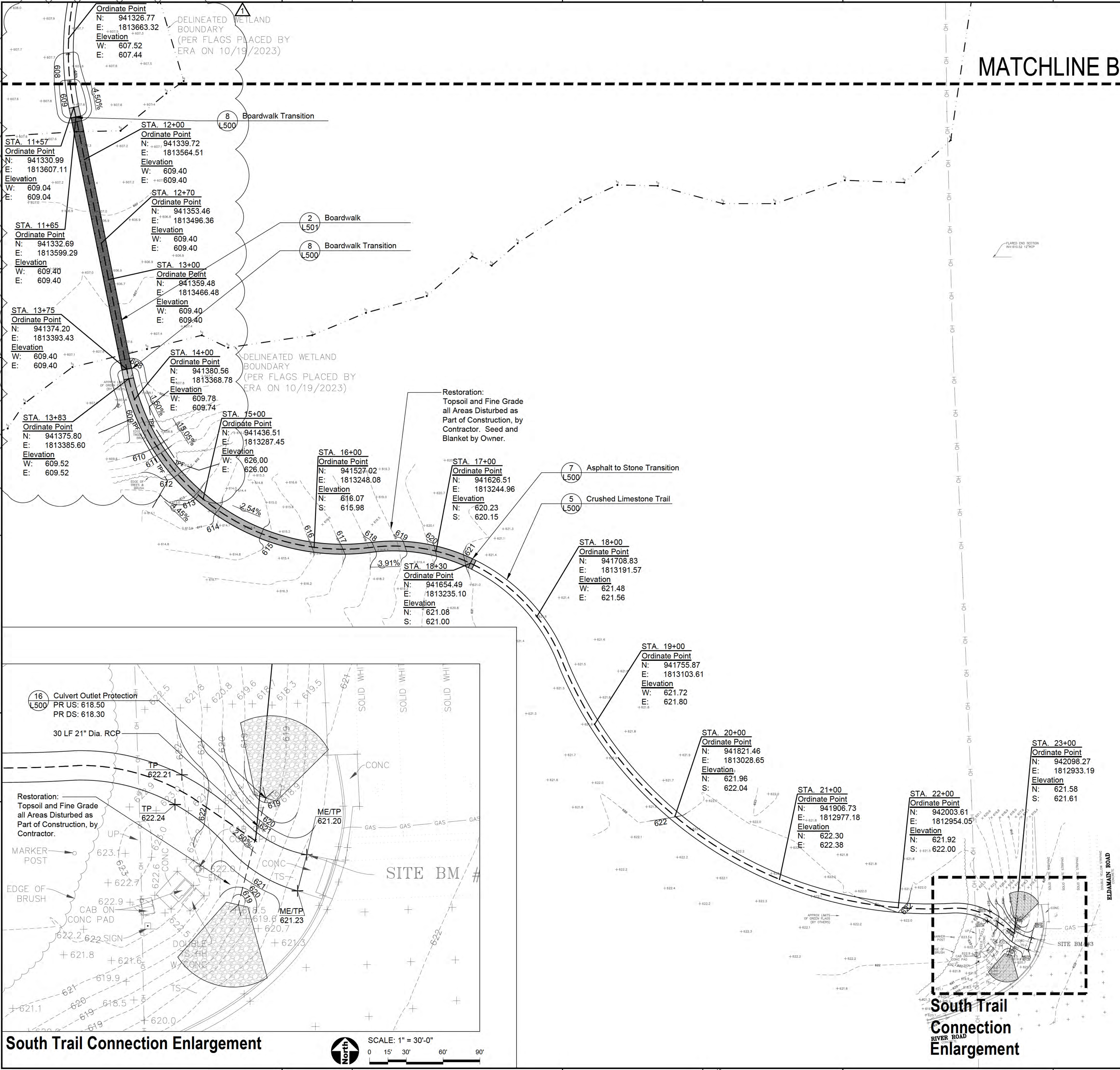


REVISION	DATE	BY	DESCRIPTION

JOB NO. 23-429-1495
DRAWN EM
CHECKED MK
APPROVED MK

SHEET TITLE
LAYOUT, DIMENSION, & GRADING PLAN - NORTH TRAIL

SHEET NUMBER
L201



MATCHLINE B

GENERAL NOTES: LAYOUT

- 1. See Sheet L200 for Notes

REFERENCED SPECIFICATIONS AND CODES

- 1. See Sheet L200 for Notes

GENERAL NOTES: DIMENSION

- 1. See Sheet L200 for Dimension Notes

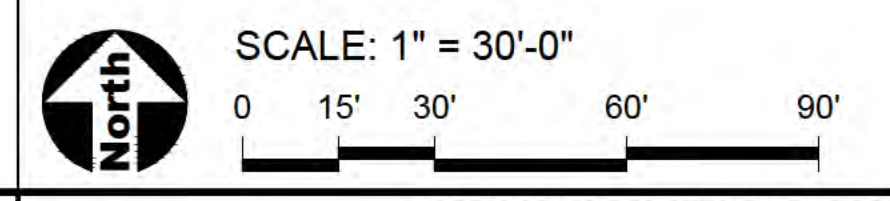
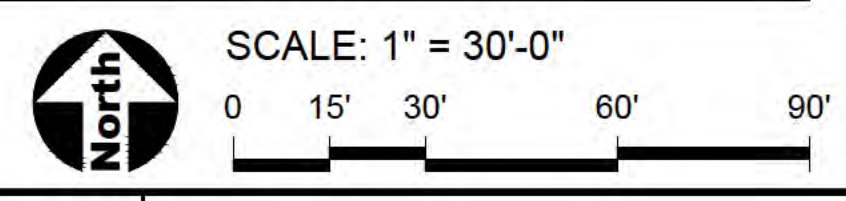
GENERAL NOTES: GRADING

- 1. See Sheet L200 for Grading Notes

LEGEND

- Asphalt Paving
- Concrete Paving
- Crushed Limestone Surfacing
- Gravel Surfacing
- Boardwalk
- EJ Concrete Expansion Joints
- Construction Limits / Construction Fence

South Trail Connection Enlargement



NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.



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SHEET TITLE

LAYOUT, DIMENSION, & GRADING PLAN - SOUTH TRAIL

SHEET NUMBER

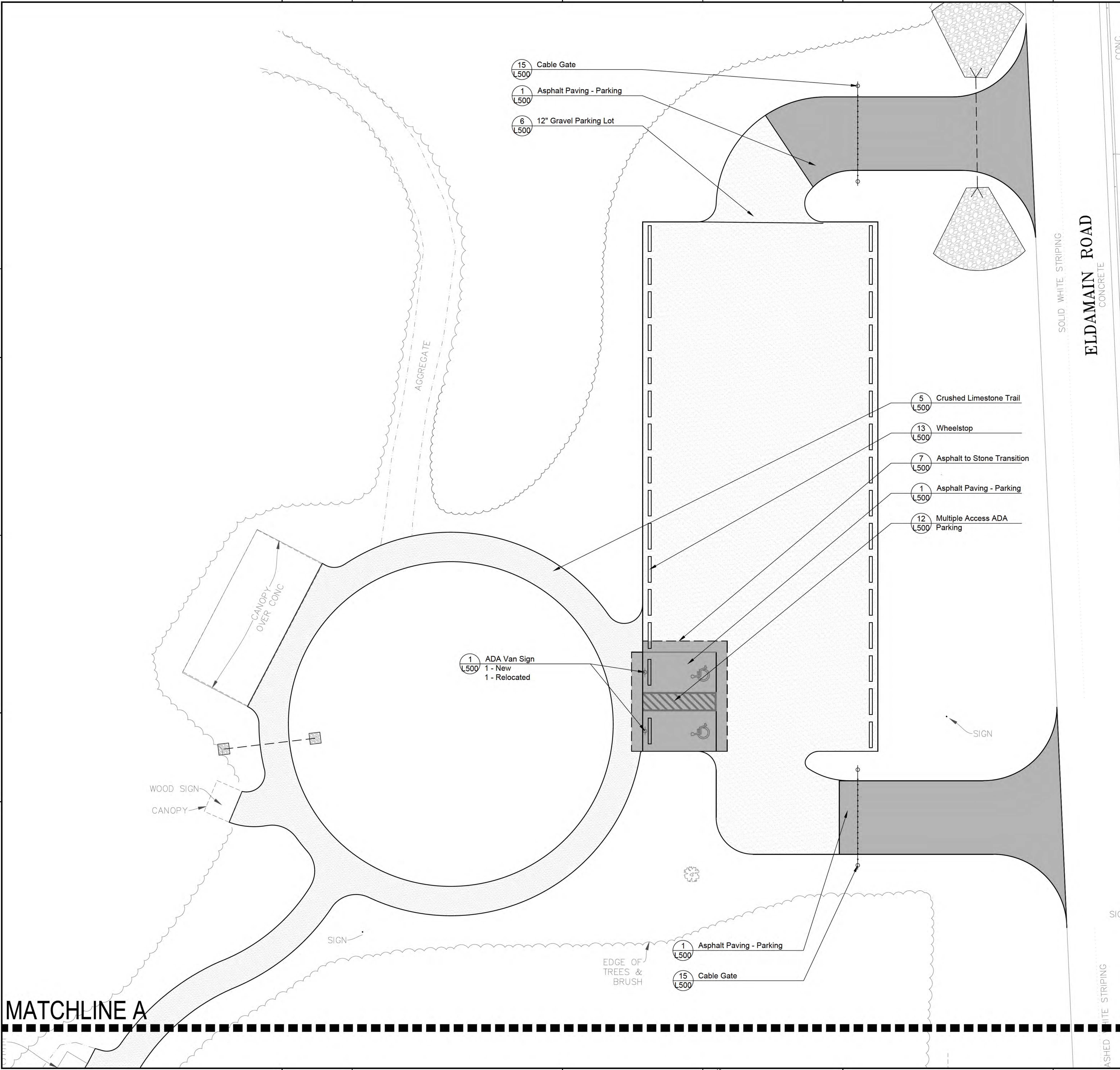
L202

GENERAL NOTES: LAYOUT

- 1. See Sheet L200 for Layout Notes.

REFERENCED SPECIFICATIONS AND CODES

- 1. See Sheet L200 for Referenced Specification and Codes.



- 15 Cable Gate
- 1 Asphalt Paving - Parking
- 6 12" Gravel Parking Lot

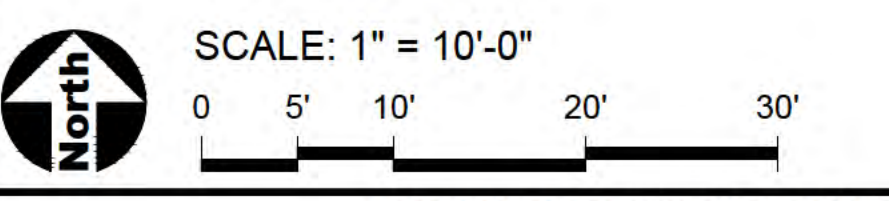
- 5 Crushed Limestone Trail
- 13 Wheelstop
- 7 Asphalt to Stone Transition
- 1 Asphalt Paving - Parking
- 12 Multiple Access ADA Parking

- 1 ADA Van Sign
- 1 - New
- 1 - Relocated

- 1 Asphalt Paving - Parking
- 15 Cable Gate

LEGEND

- Asphalt Paving
- Concrete Paving
- Crushed Limestone Surfacing
- Gravel Surfacing
- Boardwalk
- EJ Concrete Expansion Joints
- Construction Limits / Construction Fence



NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

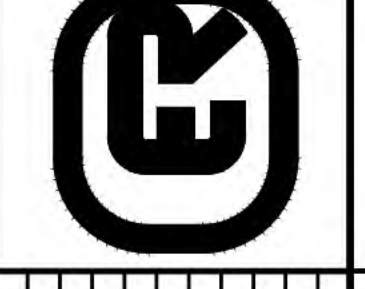


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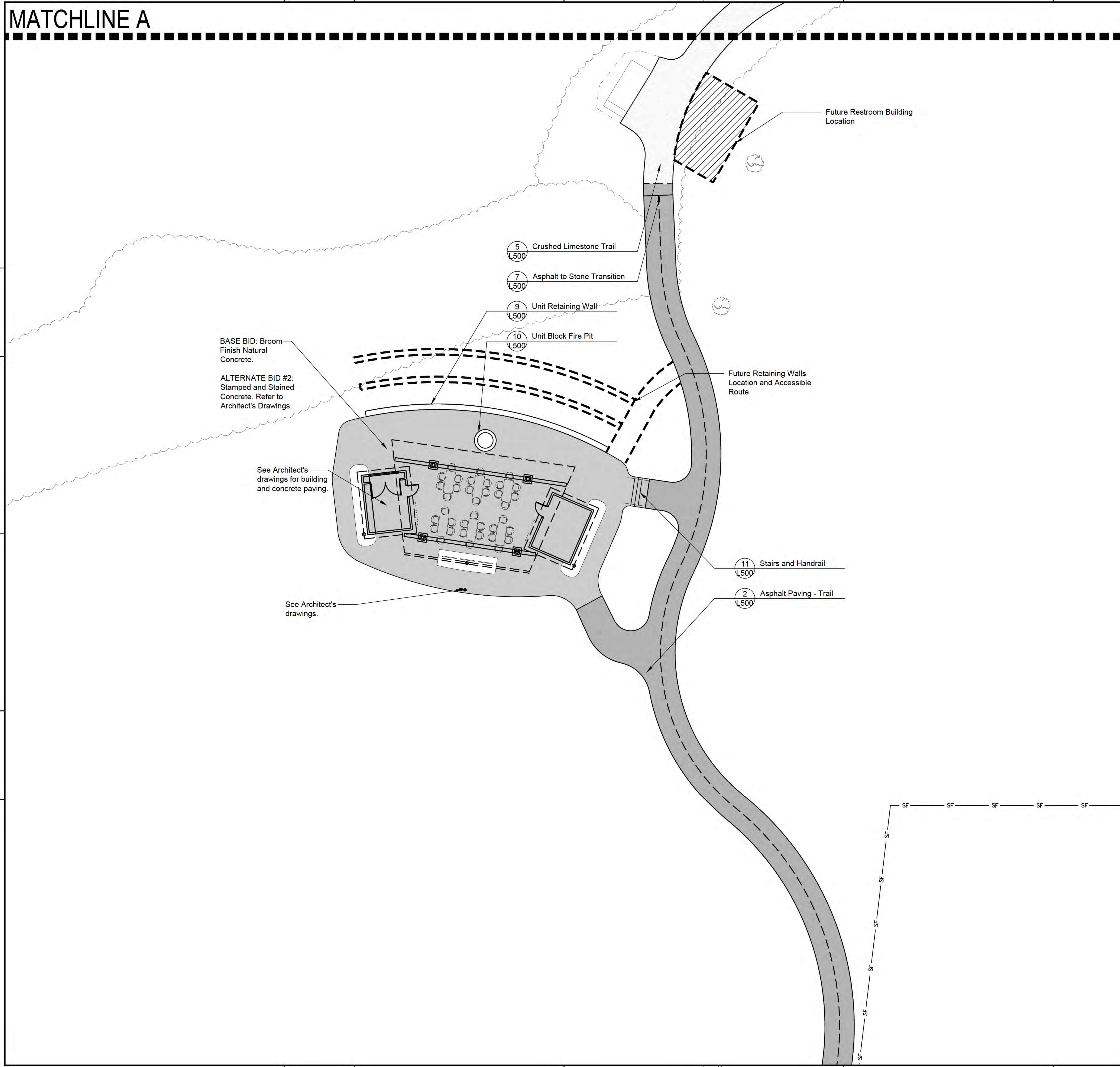
SHEET TITLE
LAYOUT PLAN - PARKING LOT ENLARGEMENT

SHEET NUMBER

L203

MATCHLINE A

MATCHLINE A



GENERAL NOTES: LAYOUT

1. See Sheet L200 for Notes

REFERENCED SPECIFICATIONS AND CODES

1. See Sheet L200 for Notes



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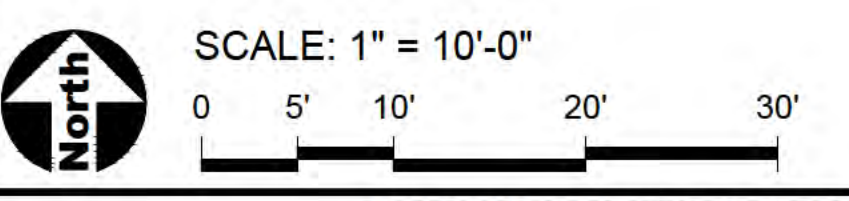
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LEGEND	
	Asphalt Paving
	Concrete Paving
	Crushed Limestone Surfacing
	Gravel Surfacing
	Boardwalk
	EJ Concrete Expansion Joints
	CL Construction Limits / Construction Fence



NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

REVISION	DATE	BY	DESCRIPTION

JOB NO.	23-429-1495
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SHEET TITLE
LAYOUT PLAN - NATURE CENTER ENLARGEMENT

SHEET NUMBER
L204

GENERAL NOTES: DIMENSION

1. See Sheet L200 for Dimension Notes

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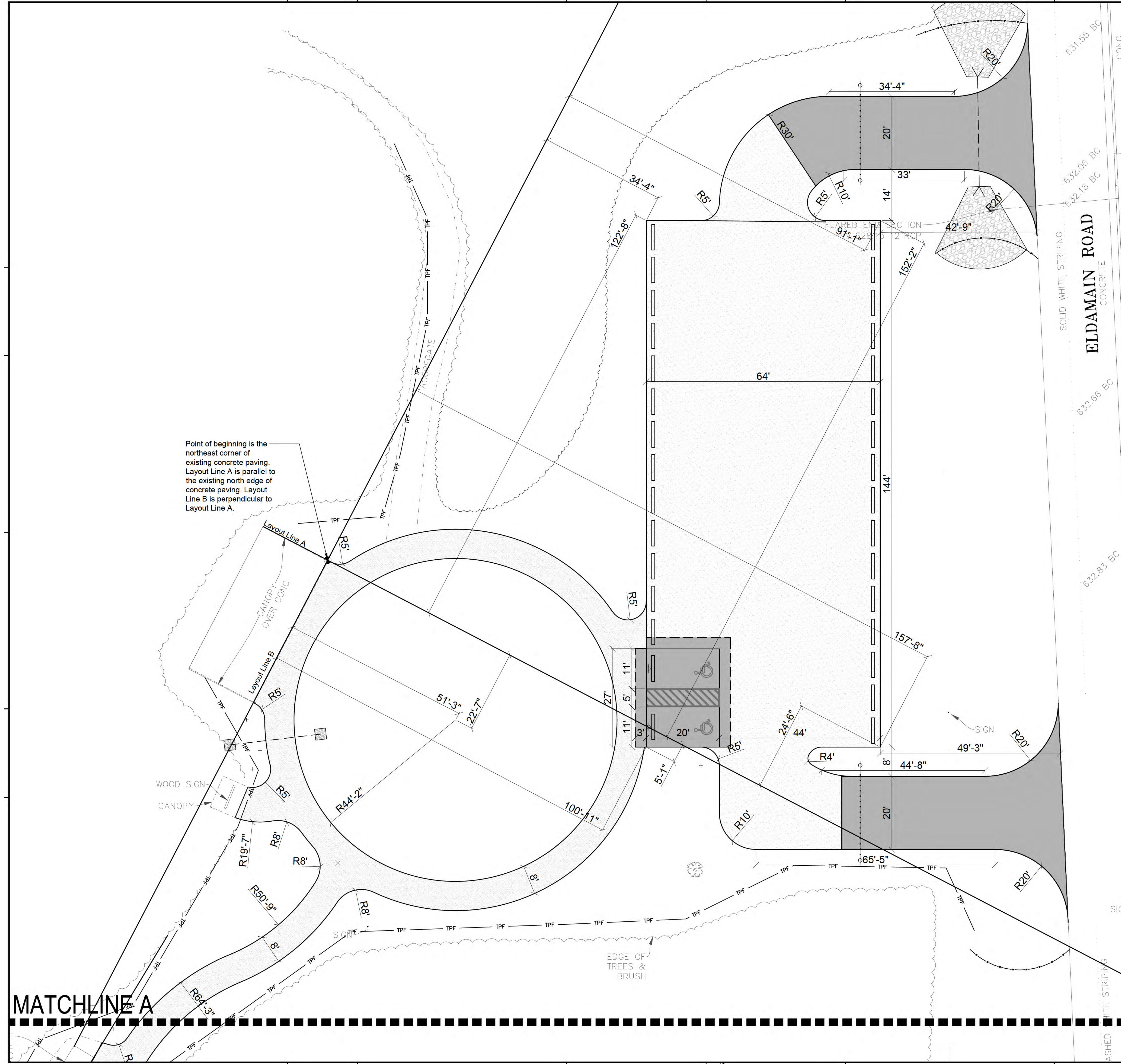
DESIGNED	
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APPROVED	
DATE	
NO. / 24	
PERMIT / SUBMITTAL	
JOB NO.	23-429-1495
DRAWN	EM
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APPROVED	MK

SHEET TITLE

DIMENSION PLAN - PARKING LOT ENLARGEMENT

SHEET NUMBER

L301



LEGEND

- Asphalt Paving
- Concrete Paving
- Crushed Limestone Surfacing
- Gravel Surfacing
- Boardwalk
- EJ Concrete Expansion Joints
- Construction Limits / Construction Fence

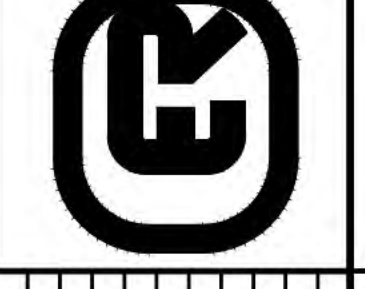


SCALE: 1" = 10'-0"
0 5' 10' 20' 30'

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

GENERAL NOTES: GRADING

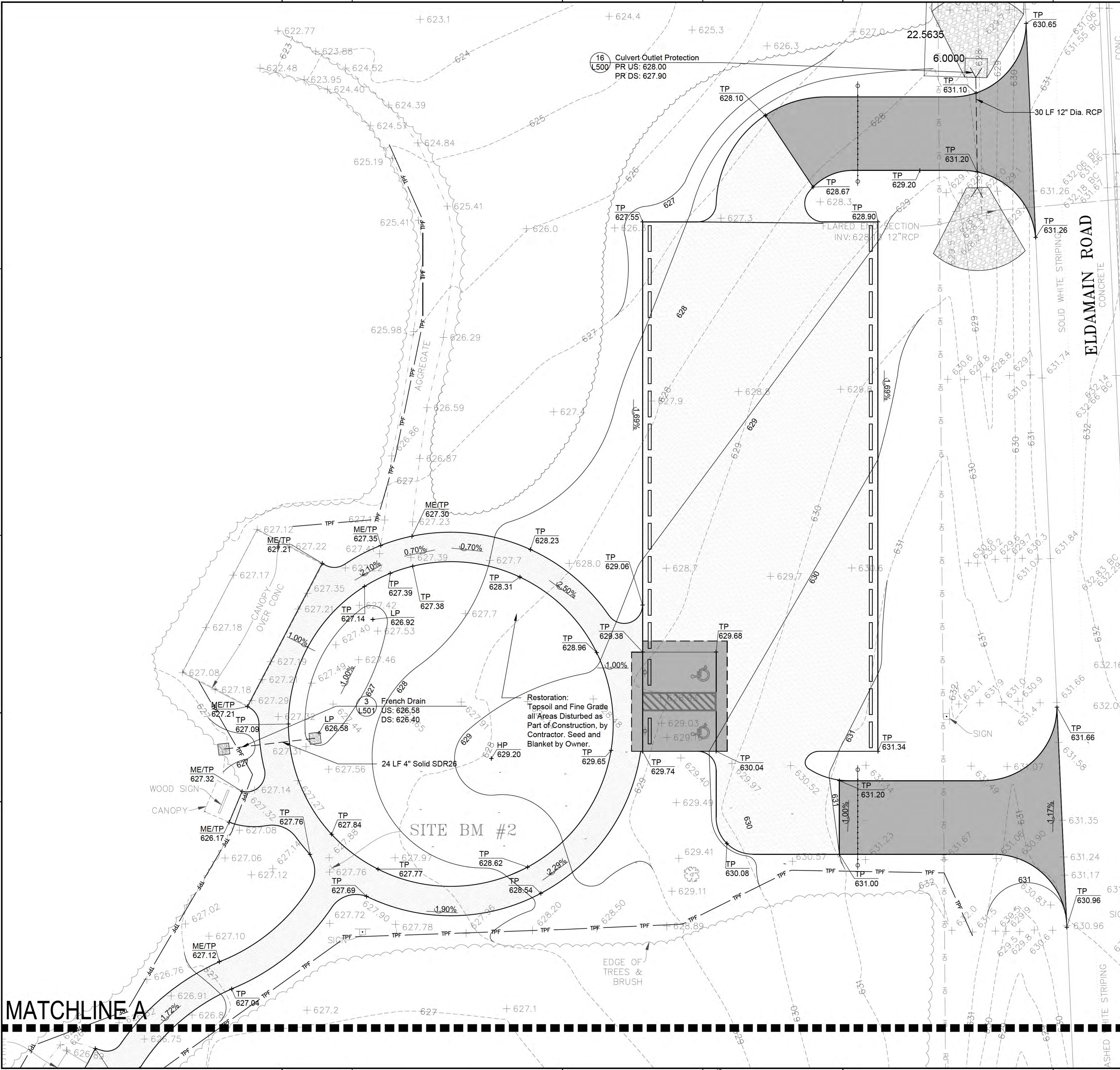
- 1. See Sheet L200 for Grading Notes.



REVISED	DATE	DESCRIPTION

JOB NO.	23-429-1495
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SHEET TITLE	GRADING PLAN - PARKING LOT ENLARGEMENT
SHEET NUMBER	L401

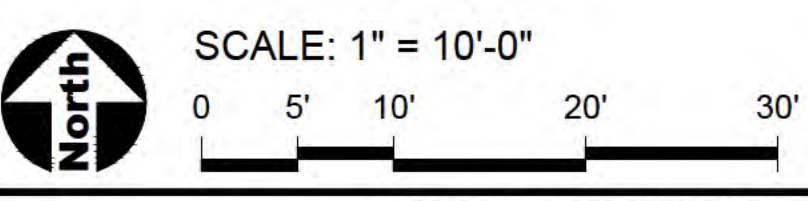


LEGEND

- 681 --- Existing Contour Line
- 681 — Proposed Contour Line
- + 683.35 + Existing Spot Elevation
- + 689.66 + Proposed Spot Elevation
- 2% — Drainage Flow Direction
- - - - - Construction Limits / Construction Fence

INDEX OF ACRONYMS AND ABBREVIATIONS

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



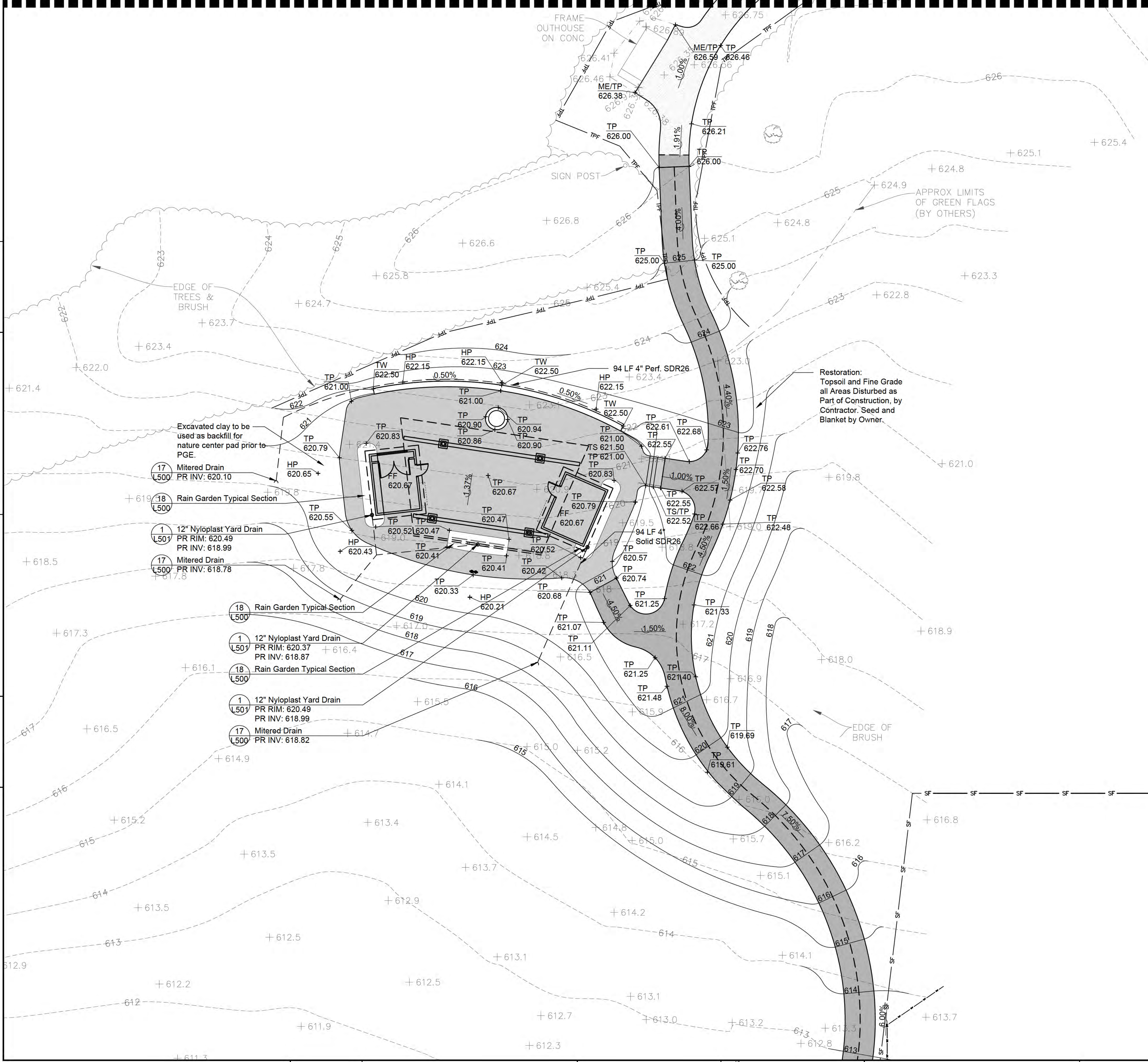
MATCHLINE A

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MATCHLINE A

GENERAL NOTES: GRADING

- See Sheet L200 for Grading Notes



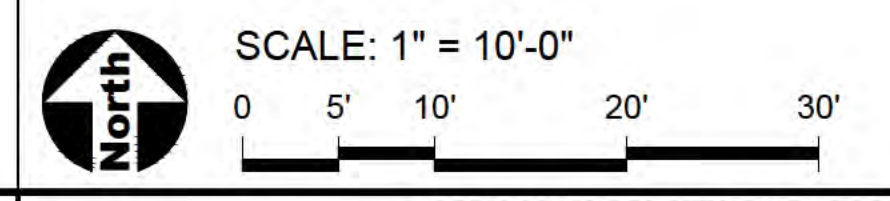
- Excavated clay to be used as backfill for nature center pad prior to PGE.
- 17 L500 Mitered Drain PR INV: 620.10
- 18 L500 Rain Garden Typical Section
- 1 L501 12" Nyloplast Yard Drain PR RIM: 620.49 PR INV: 618.99
- 17 L500 Mitered Drain PR INV: 618.78
- 18 L500 Rain Garden Typical Section
- 1 L501 12" Nyloplast Yard Drain PR RIM: 620.37 PR INV: 618.87
- 18 L500 Rain Garden Typical Section
- 1 L501 12" Nyloplast Yard Drain PR RIM: 620.49 PR INV: 618.99
- 17 L500 Mitered Drain PR INV: 618.82

LEGEND

- 681 --- Existing Contour Line
- 681 — Proposed Contour Line
- + 683.35 + Existing Spot Elevation
- + 689.66 + Proposed Spot Elevation
- 2% — Drainage Flow Direction
- CL — Construction Limits / Construction Fence

INDEX OF ACRONYMS AND ABBREVIATIONS

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



NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.



ISSUED	
REVISED	
DATE	
DESCRIPTION	

JOB NO.	23-429-1495
DRAWN	EM
CHECKED	MK
APPROVED	MK

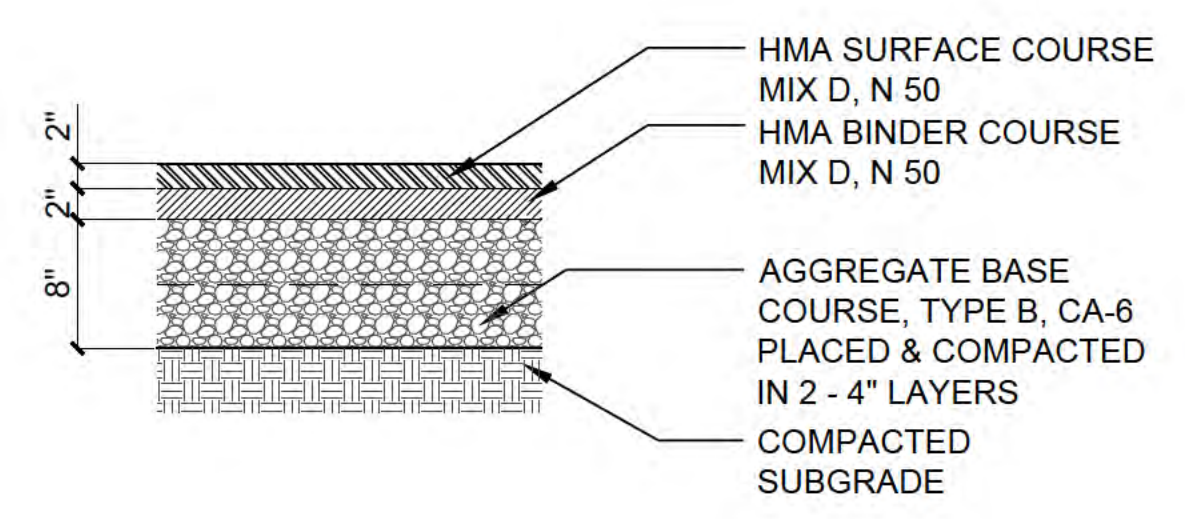
SHEET TITLE
GRADING PLAN - NATURE CENTER ENLARGEMENT

SHEET NUMBER
L402

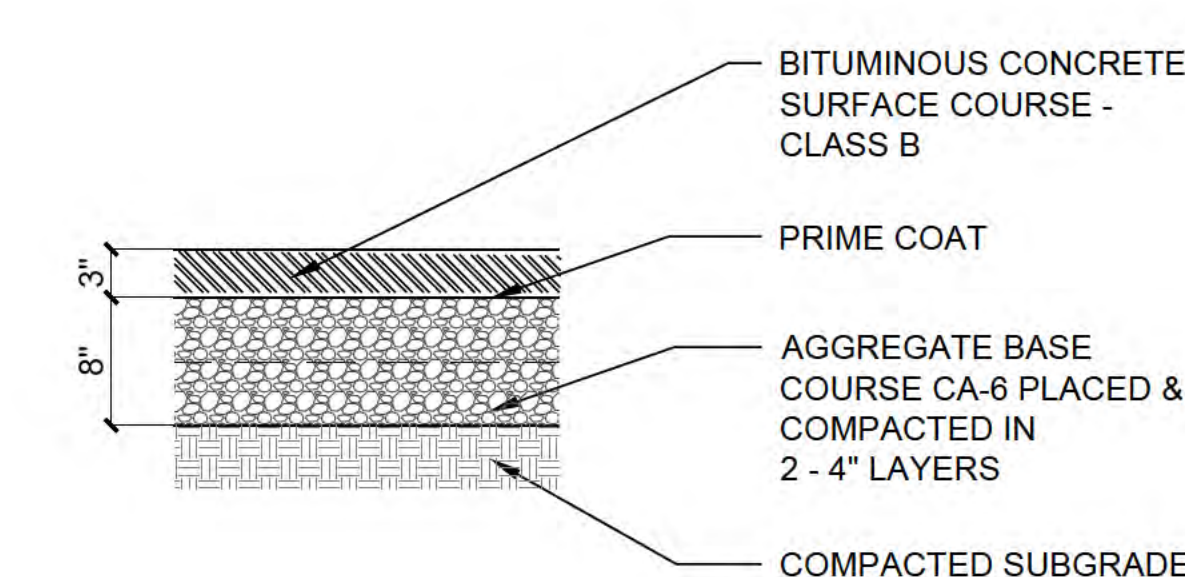
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Table with columns: JOB NO. (23-429-1495), DRAWN (EM), CHECKED (MK), APPROVED (MK)

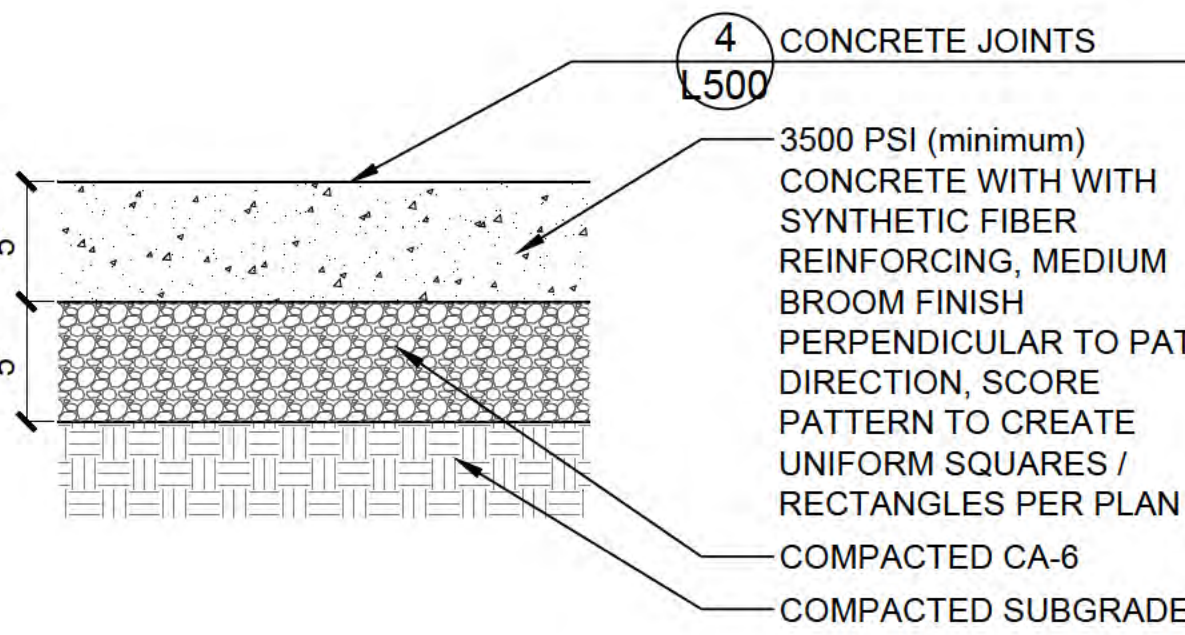
Table with columns: SHEET TITLE (CONSTRUCTION DETAILS), SHEET NUMBER (L500)



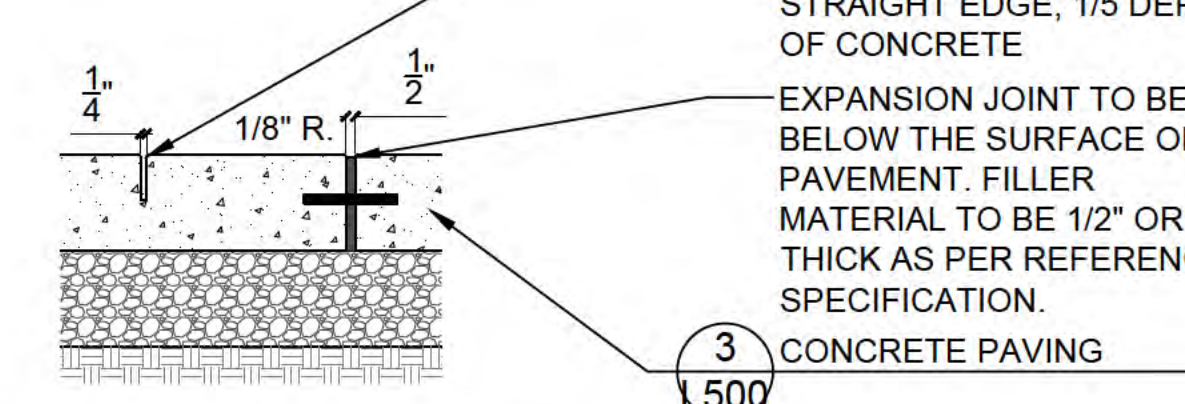
1 Asphalt Paving - Parking SCALE: 1"=1'-0" detail drawing sorted.dwg



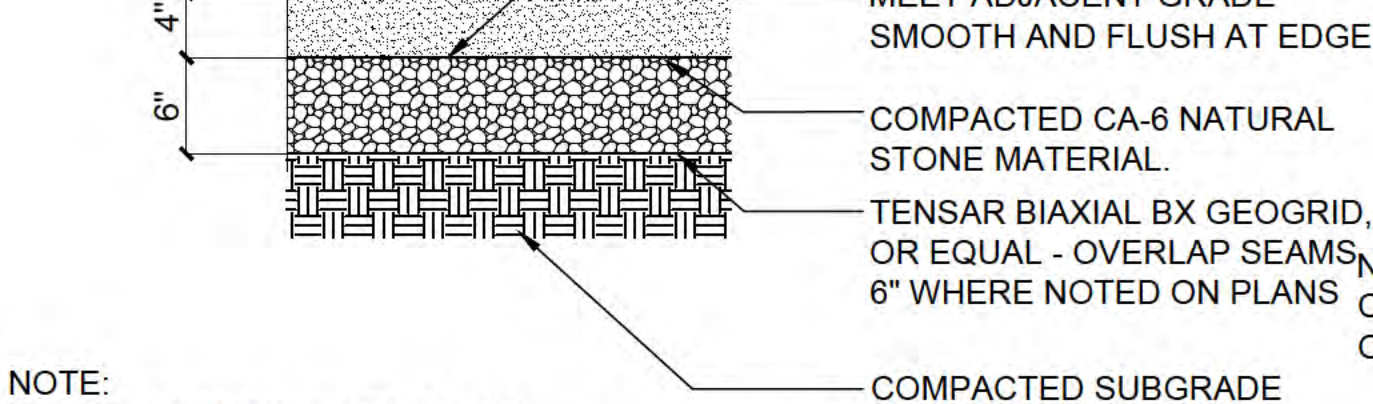
2 Asphalt Paving - Trail SCALE: 1"=1'-0" d-asph_trail_12.dwg



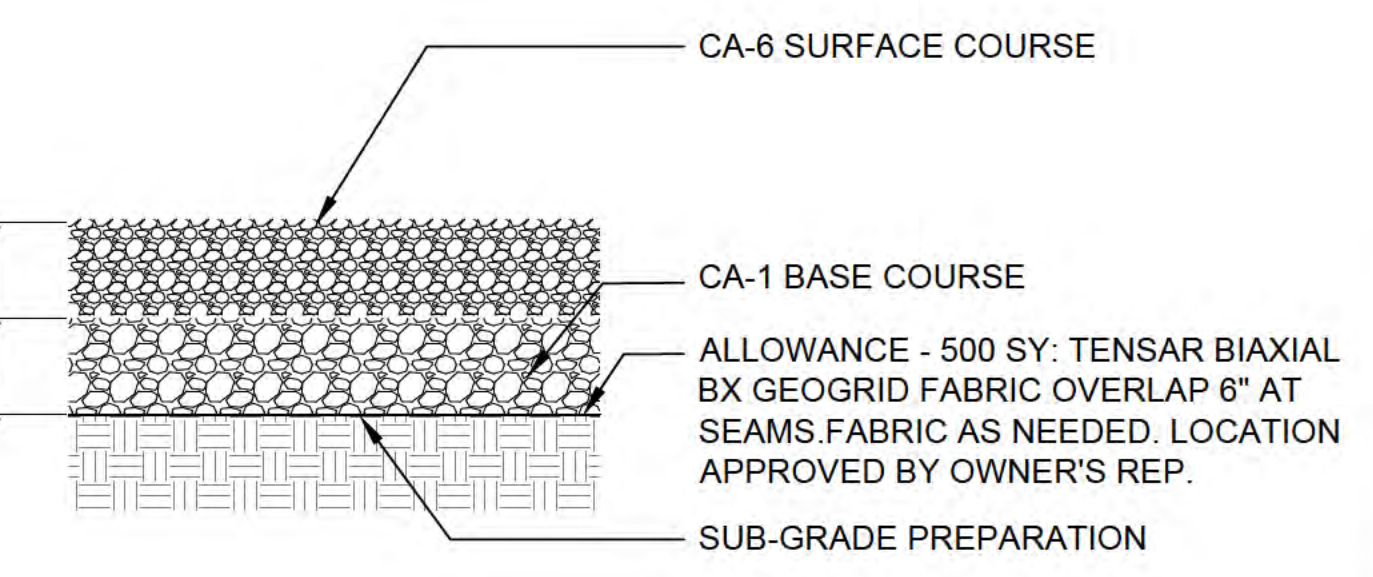
3 Concrete Paving SCALE: 1 1/2"=1'-0" d-conc pav_5_8



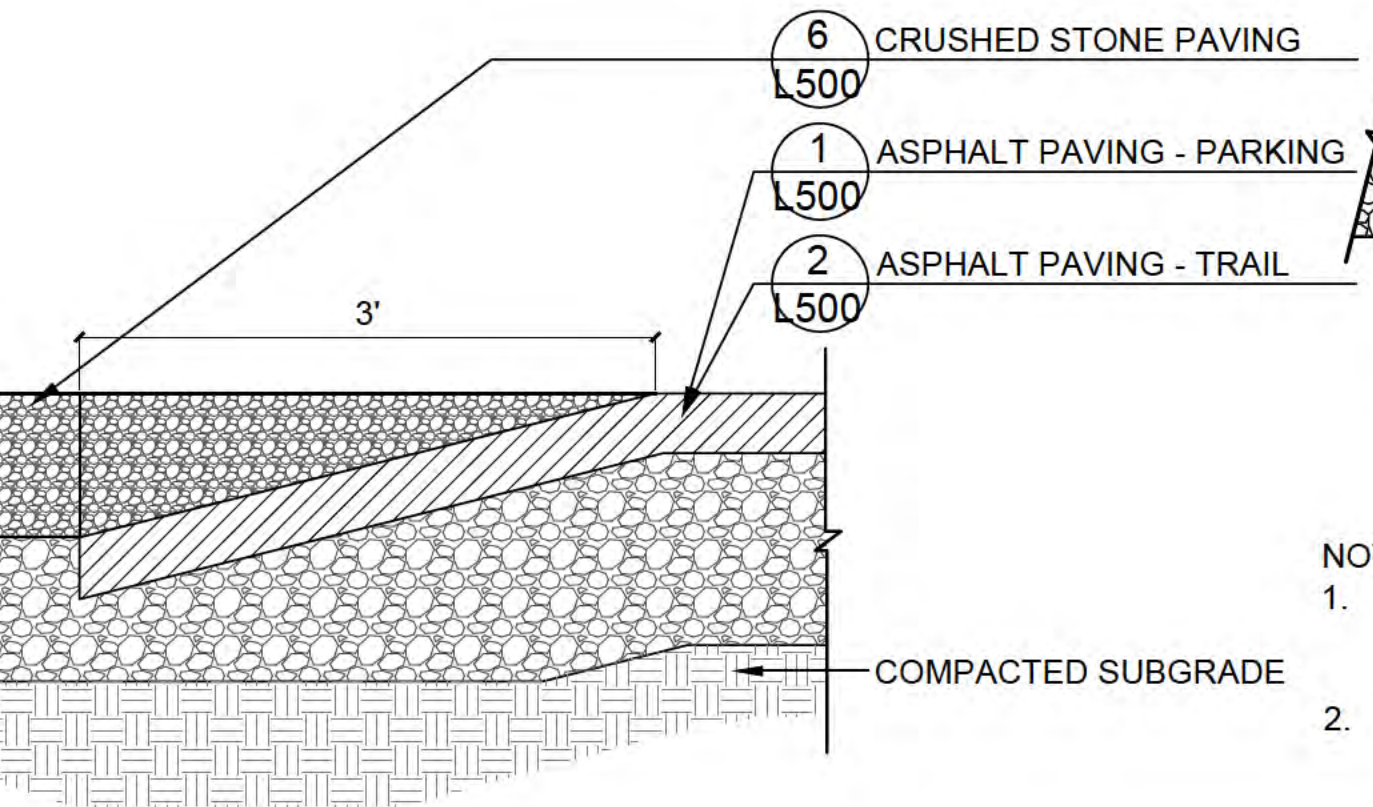
4 Concrete Joints SCALE: 1 1/2"=1'-0" d-conc_joints_8.dwg



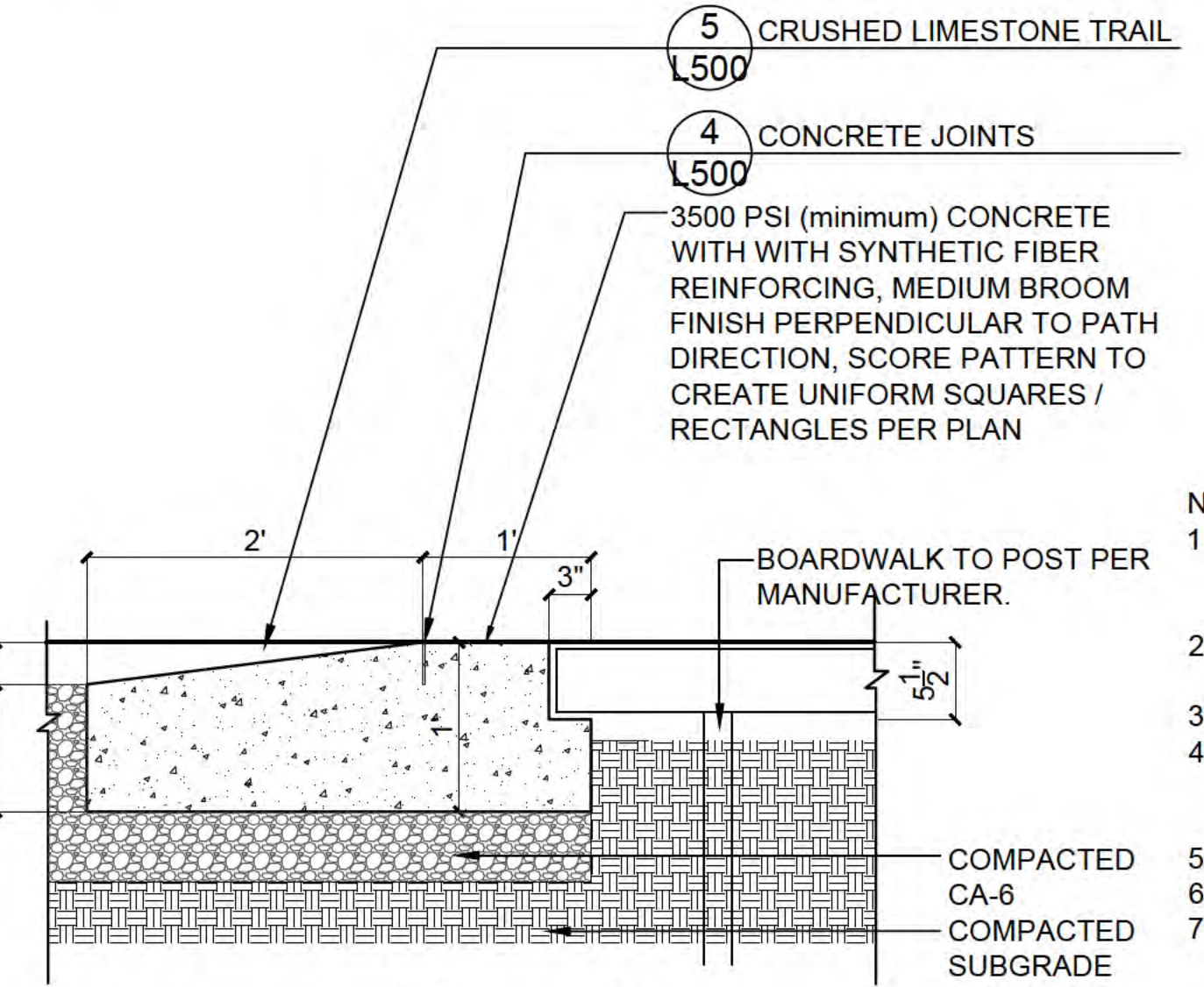
5 Crushed Limestone Trail SCALE: 1"=1'-0" Limestone-FA5 A



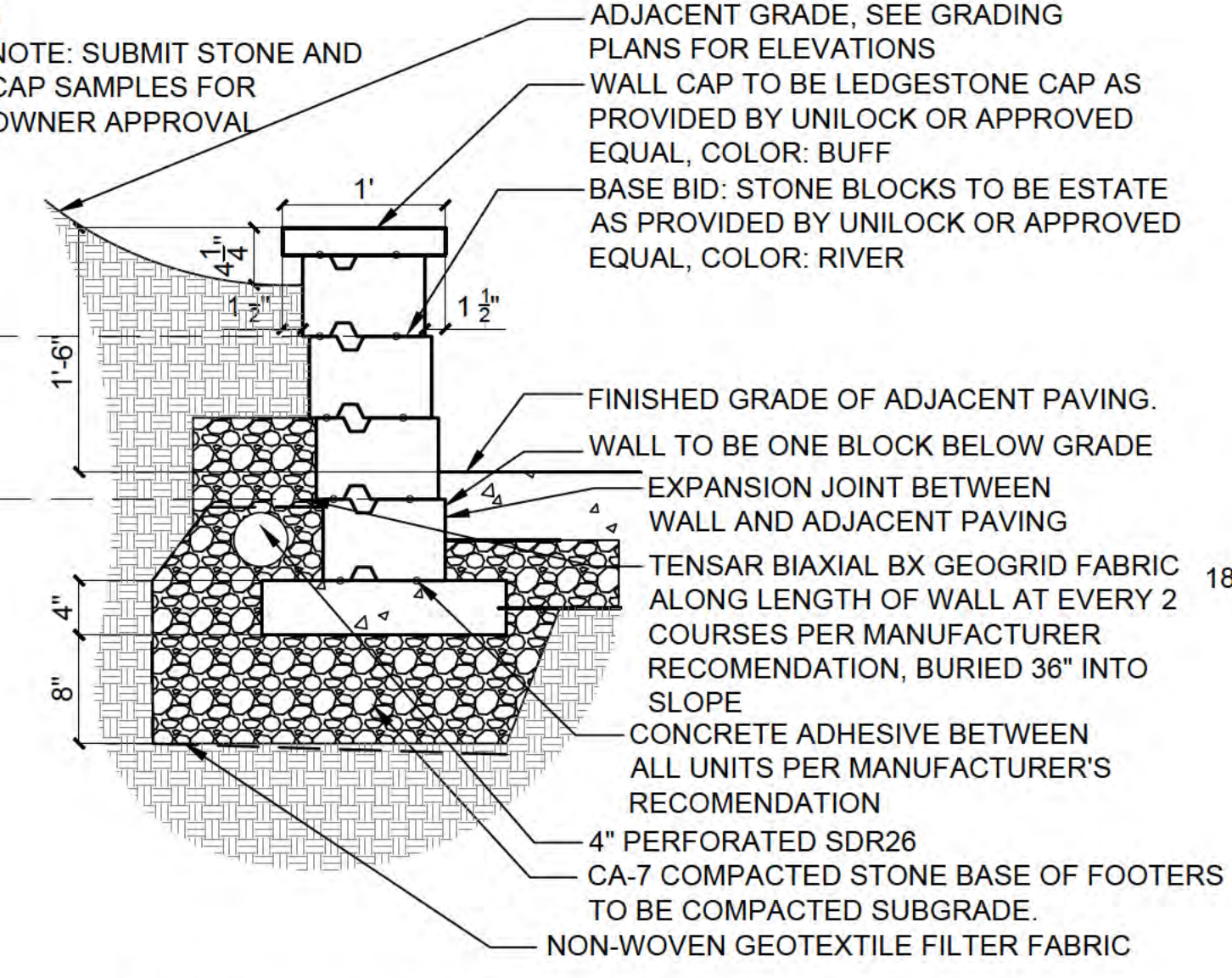
6 12" Gravel Parking Lot SCALE: 1"=1'-0" 12 gravel CA6_1_12



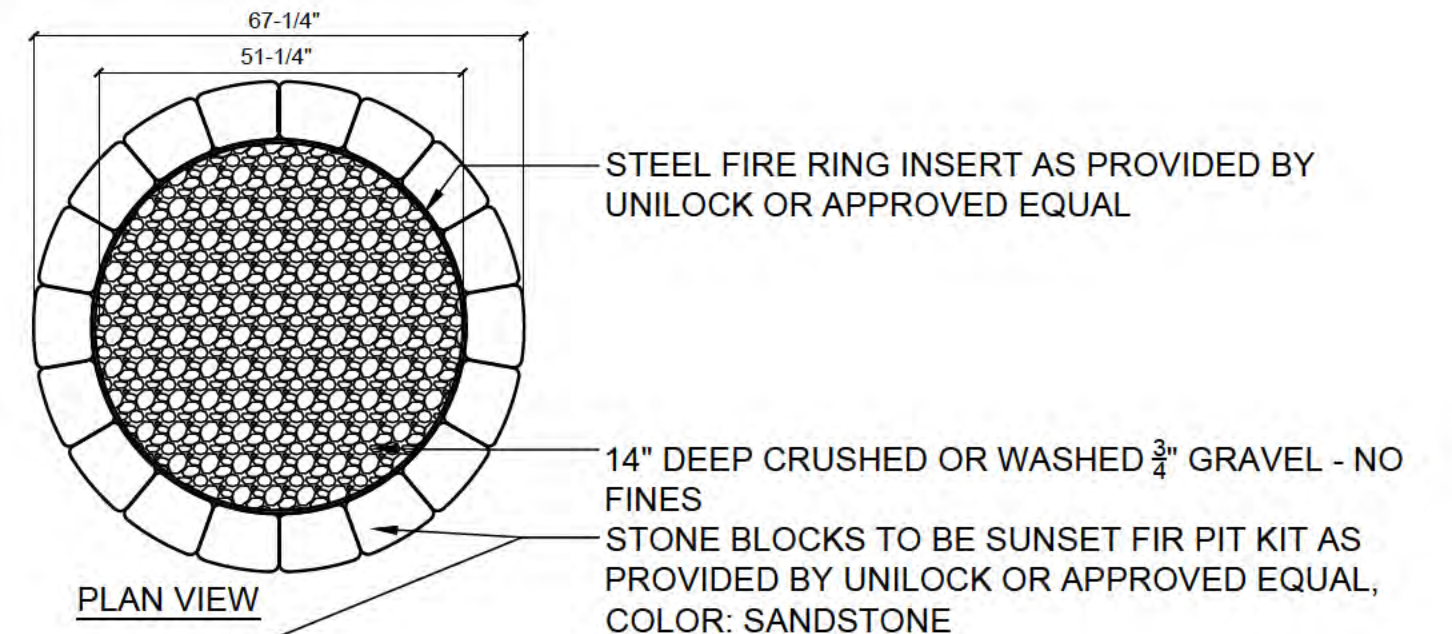
7 Asphalt to Stone Transition SCALE: 1 1/2"=1'-0" d-asph-gravel transition_8



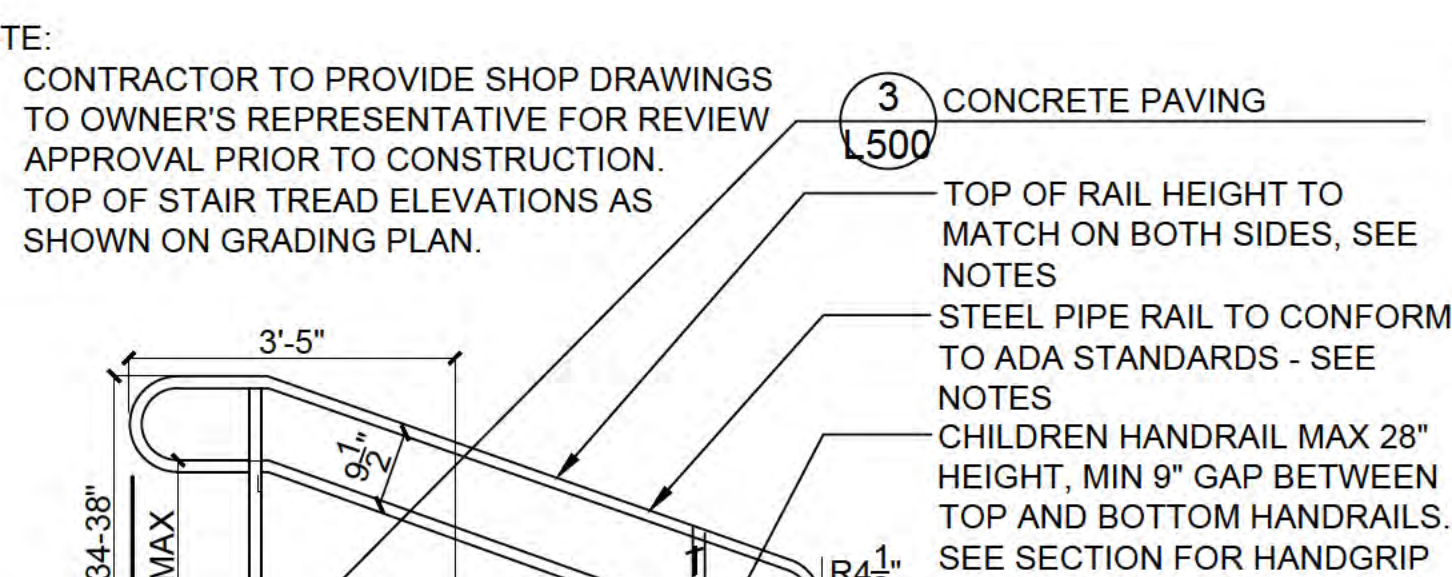
8 Boardwalk Transition SCALE: Not to Scale CRing-FirePit



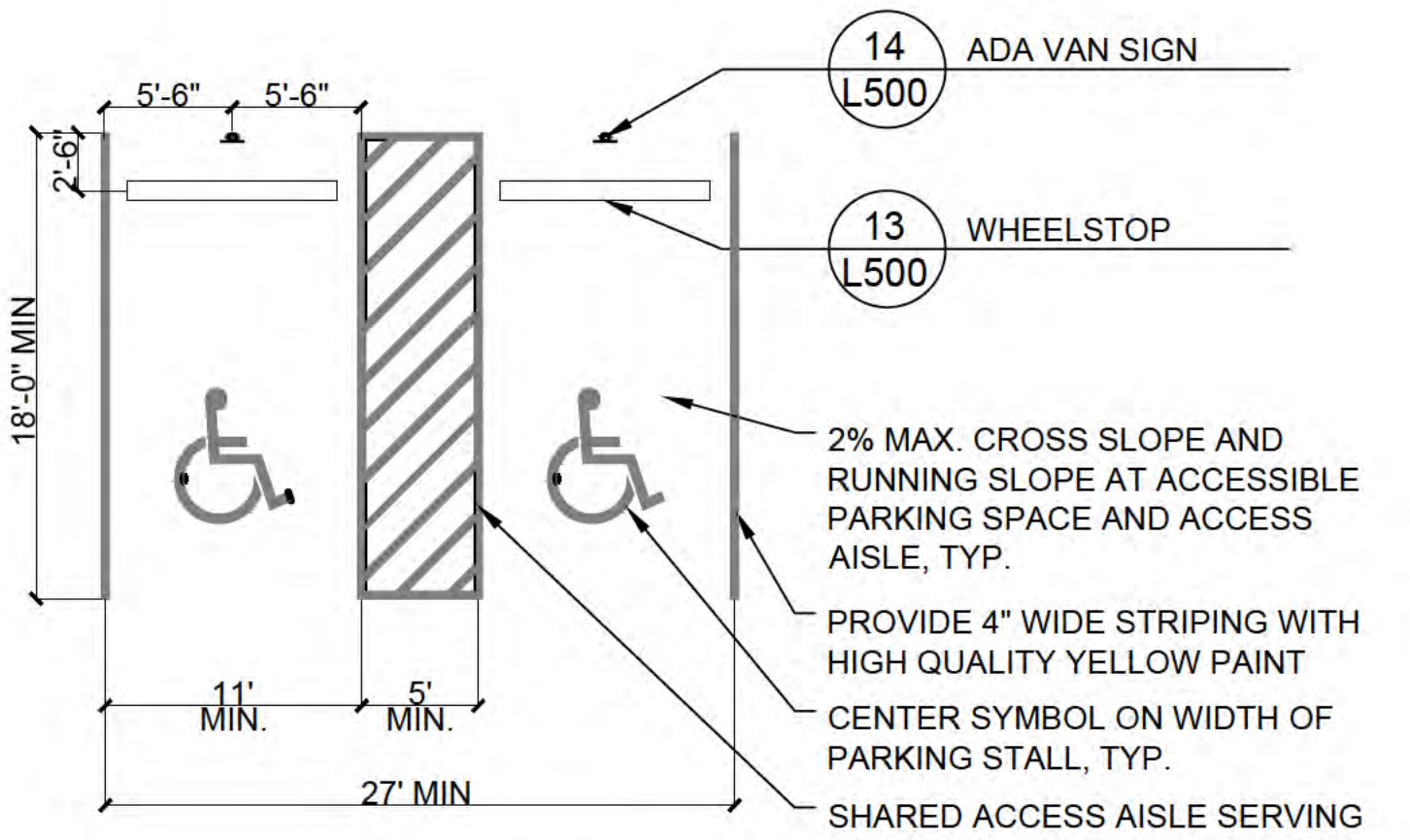
9 Unit Retaining Wall SCALE: Not to Scale d-limestone seat wall-2 sides



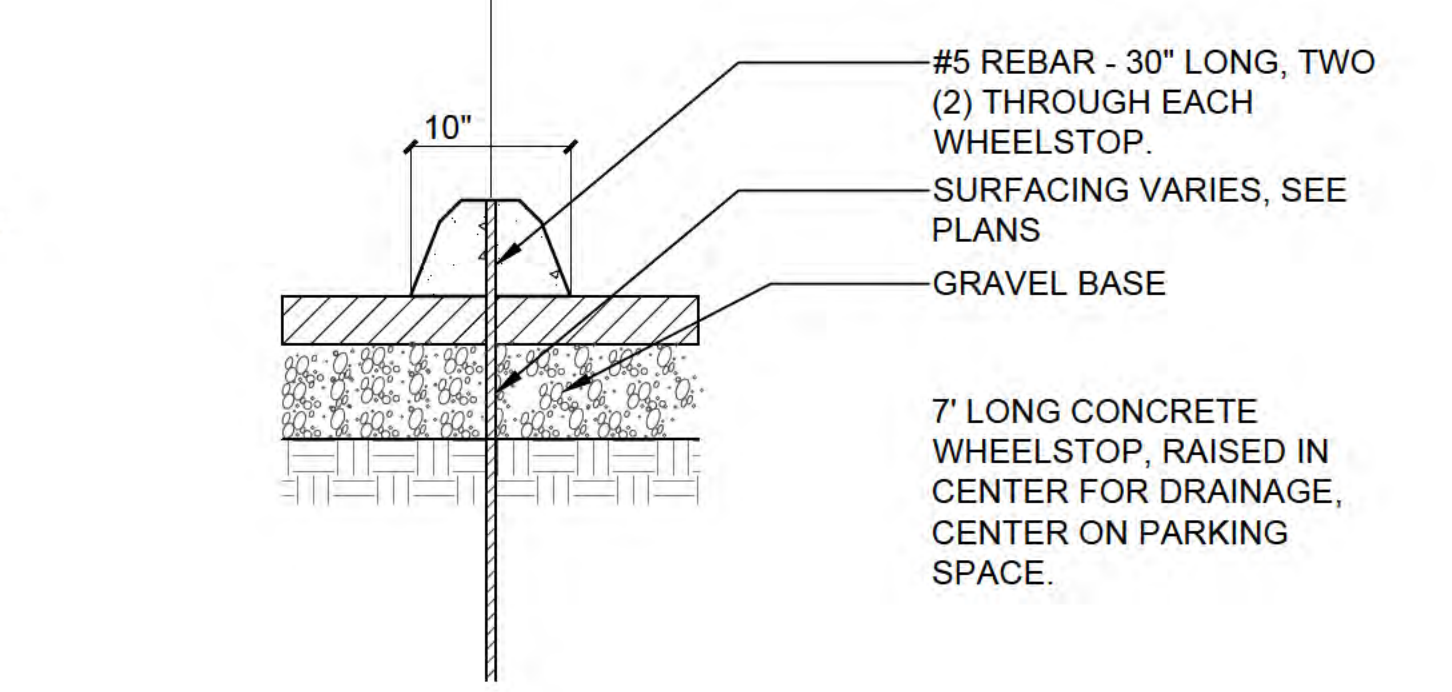
10 Unit Block Fire Pit SCALE: Not to Scale CRing-FirePit



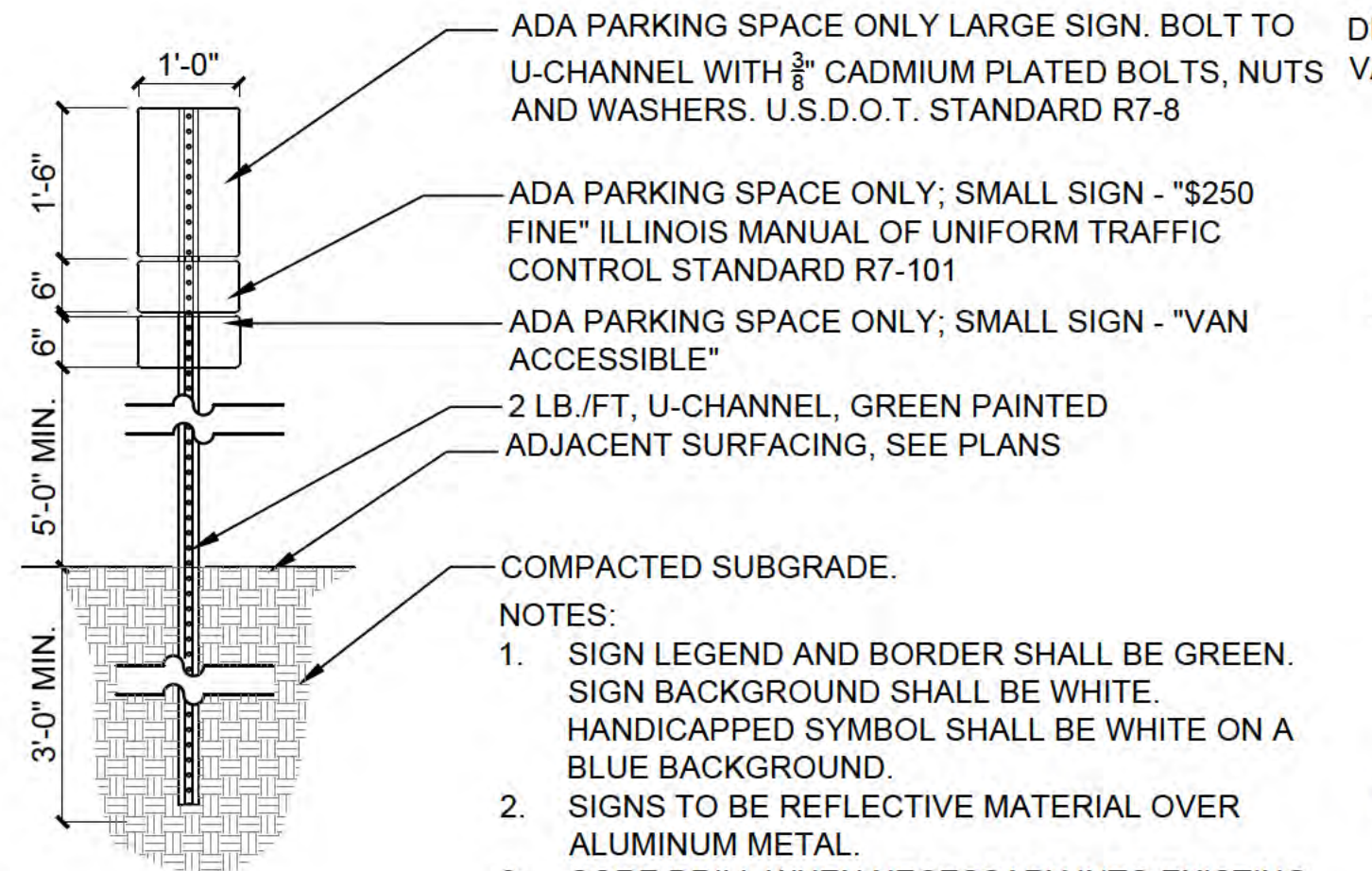
11 Stairs and Handrail SCALE: 1"=1/2" d-stairs_hillside



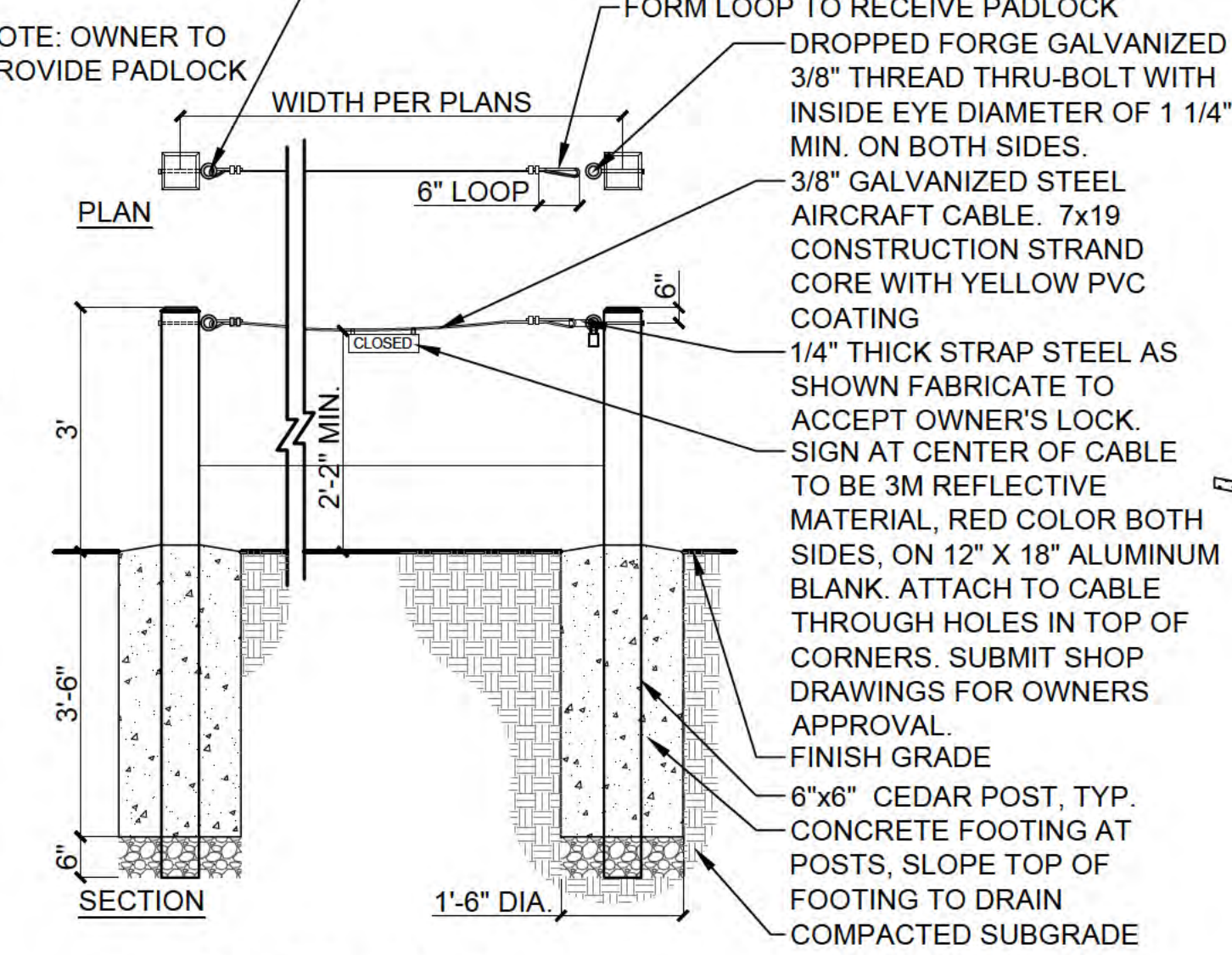
12 Multiple Access ADA Parking SCALE: 1/8"=1'-0" d-ADA Parking_96



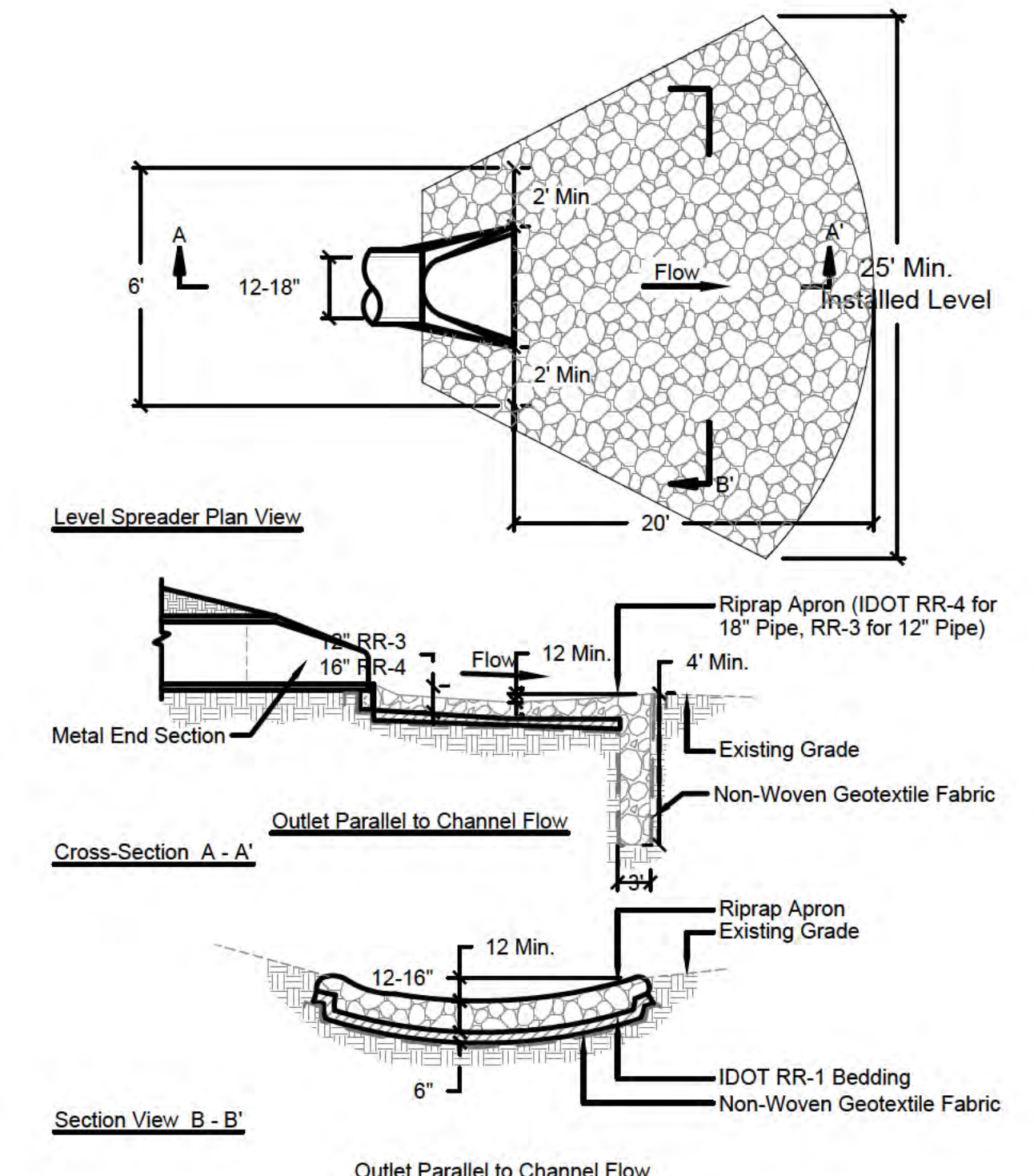
13 Wheelstop SCALE: 1"=1'-0" wheelstop_1_12



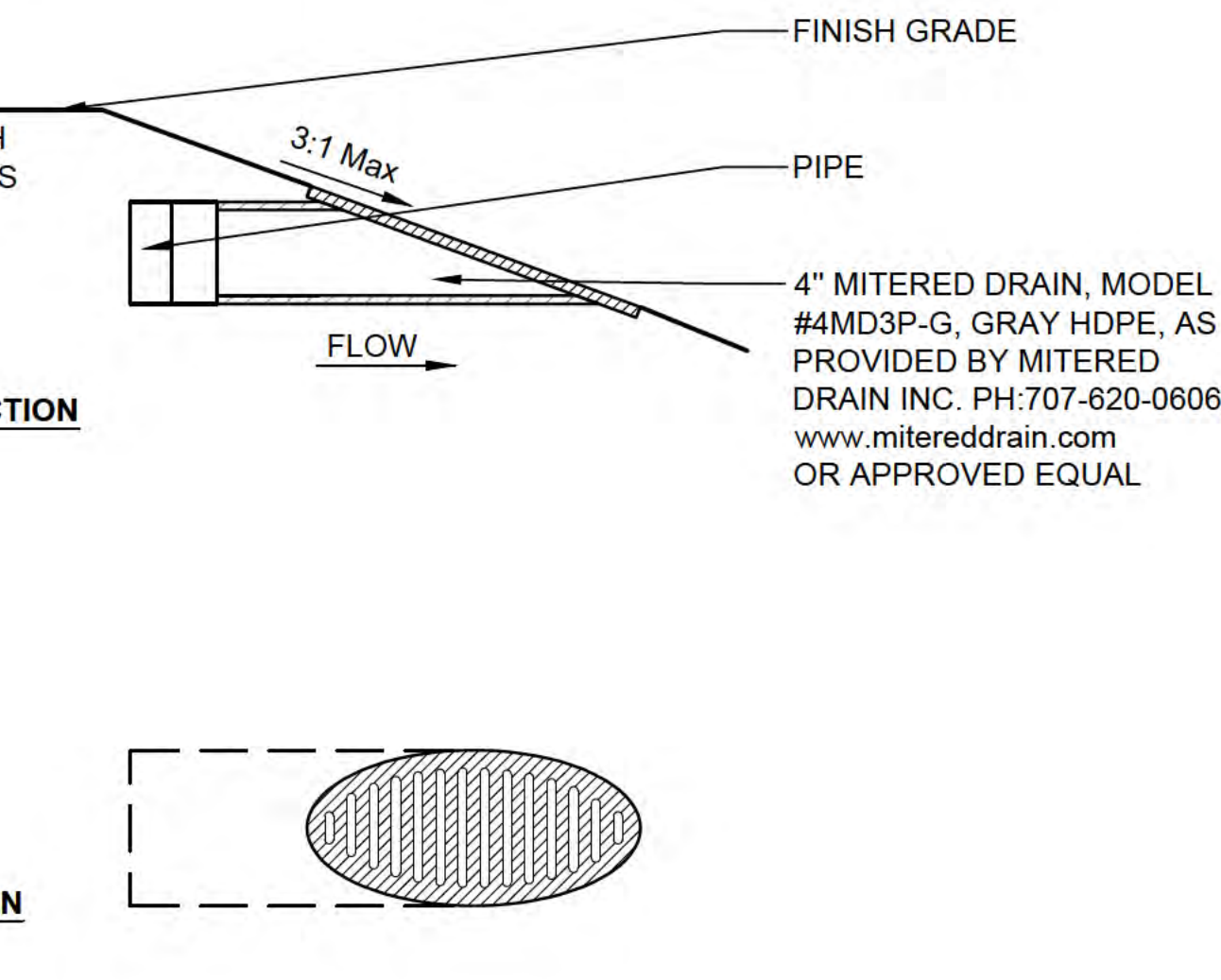
14 ADA Van Sign SCALE: N.T.S. d-sign_ada van metal_12.dwg



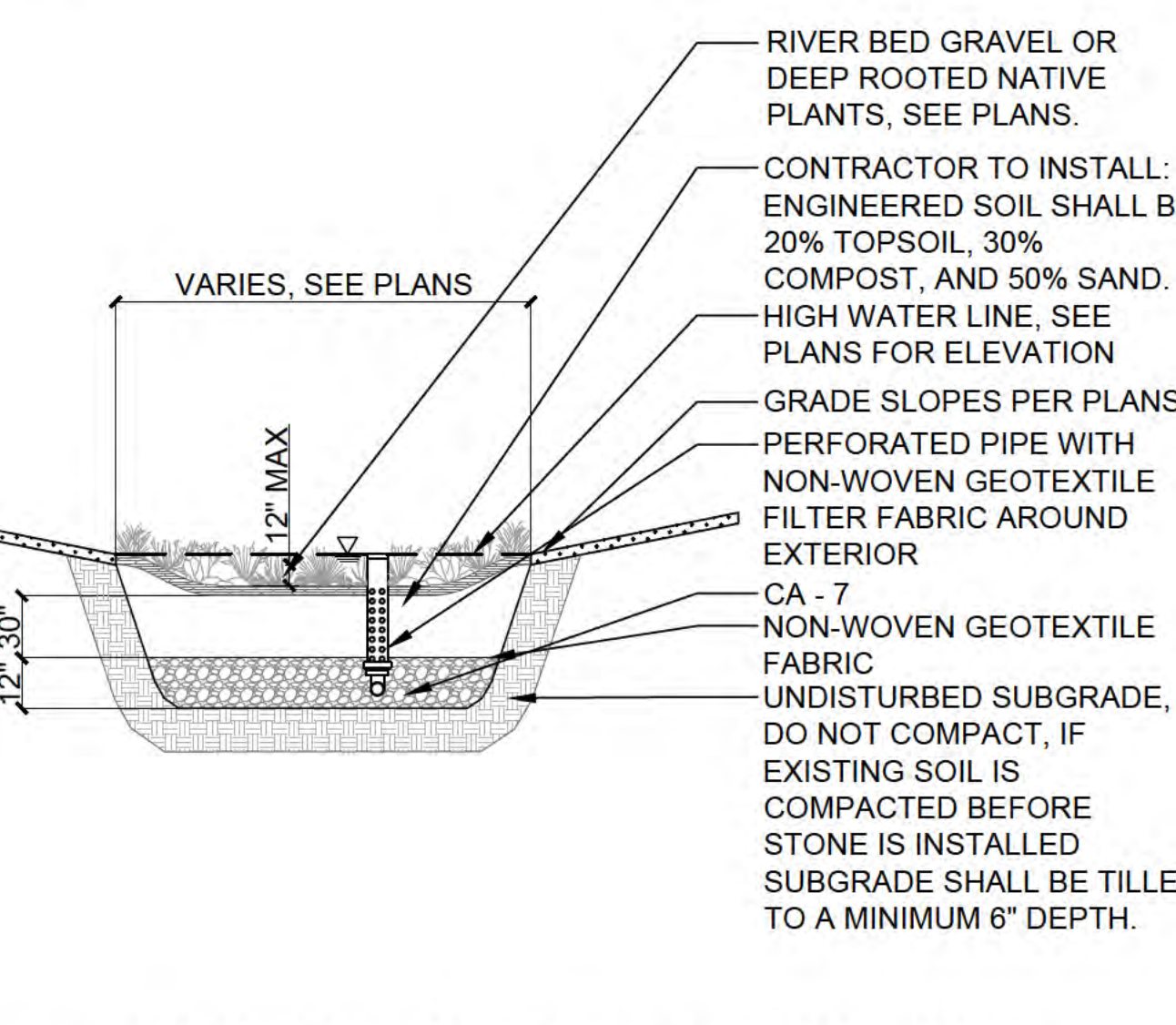
15 Cable Gate SCALE: 1/2"=1'-0" d-cable gate_24



16 Culvert Outlet Protection (Not to Scale)



17 Mitered Drain SCALE: 1 1/2"=1'-0" d-mitered drain_8



18 Rain Garden Typical Section SCALE: N.T.S. d-plant_rain garden_48.dwg

NOTES: 1. JOINTS PLAN TAKES PRIORITY OVER NOTES EXCEPT FOR MAXIMUM SPACING. 2. CONTRACTION JOINTS TO BE PLACED 10' O.C. MAXIMUM...

NOTES: 1. CONTRACTOR TO MEASURE IN FIELD AND PROVIDE SHOP DRAWINGS TO OWNER FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION. 2. CONTRACTOR TO CONSTRUCT TO MEET FEDERAL AND STATE ADA STANDARDS...

NOTE: 1. SLOPE SURFACE PER PLANS. 2. MAXIMUM CROSS SLOPE TO BE 1.5% MAXIMUM. 3. GEOTEXTILE PER BID QUANTITY - OR LESS IF NOT APPROVED BY OWNER'S REP...

NOTES: 1. SIGN LEGEND AND BORDER SHALL BE GREEN. SIGN BACKGROUND SHALL BE WHITE. HANDICAPPED SYMBOL SHALL BE WHITE ON A BLUE BACKGROUND.

NOTES: 1. CONTRACTOR TO MEASURE IN FIELD AND PROVIDE SHOP DRAWINGS TO OWNER FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION. 2. CONTRACTOR TO CONSTRUCT TO MEET FEDERAL AND STATE ADA STANDARDS...

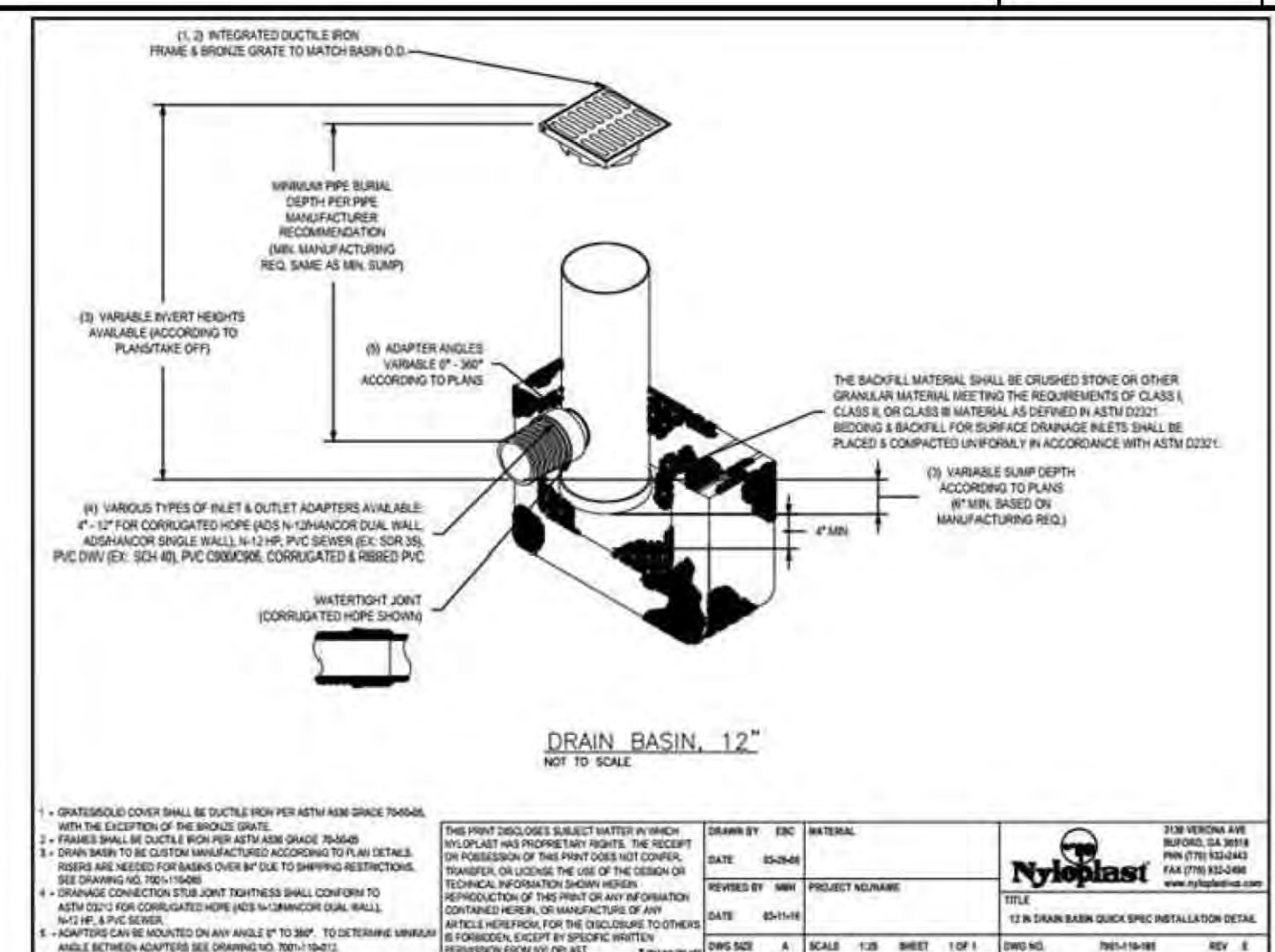
REVISED	DATE	BY

JOB NO.	23-429-1495
DRAWN	EM
CHECKED	MK
APPROVED	MK

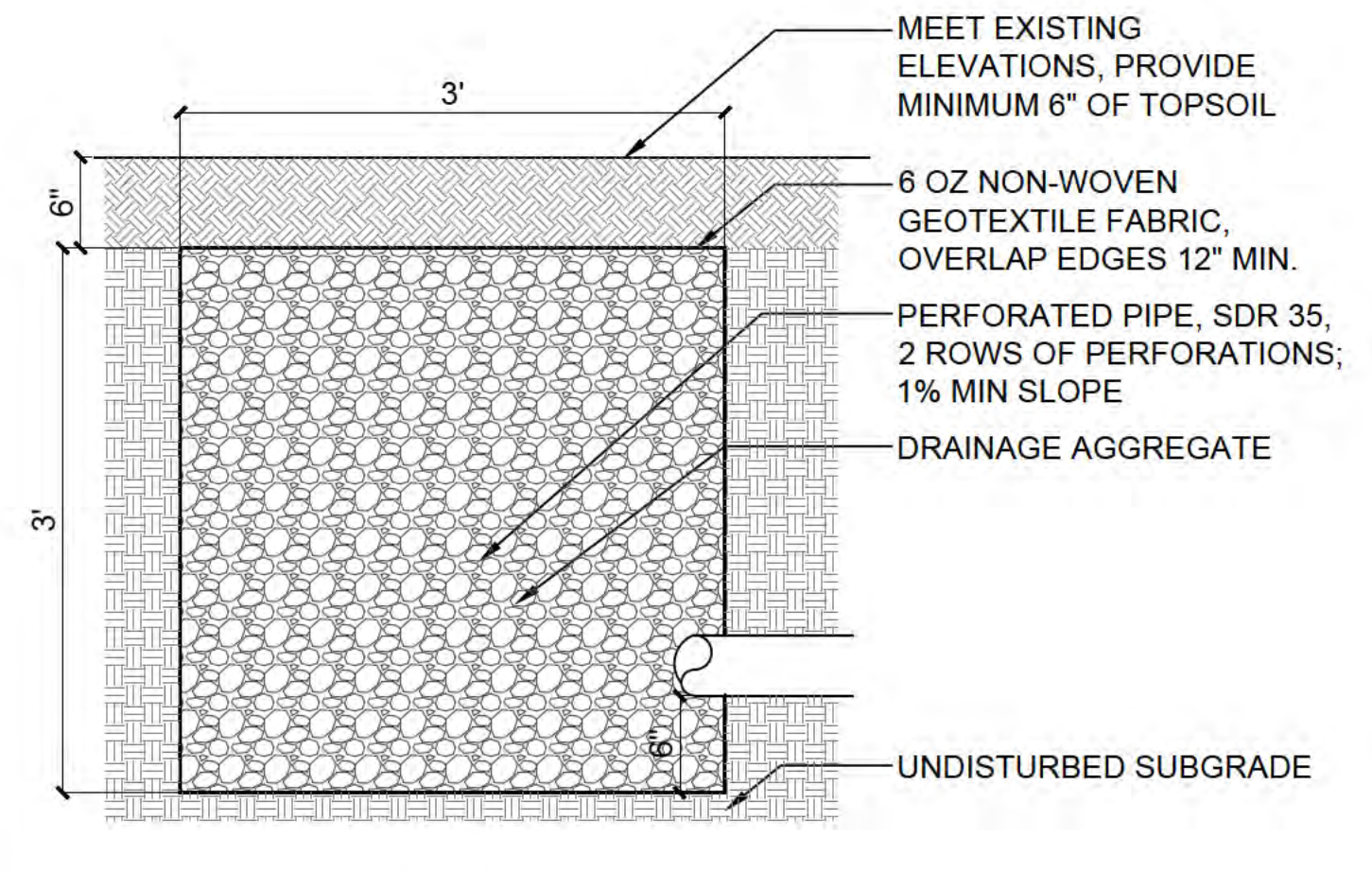
SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER

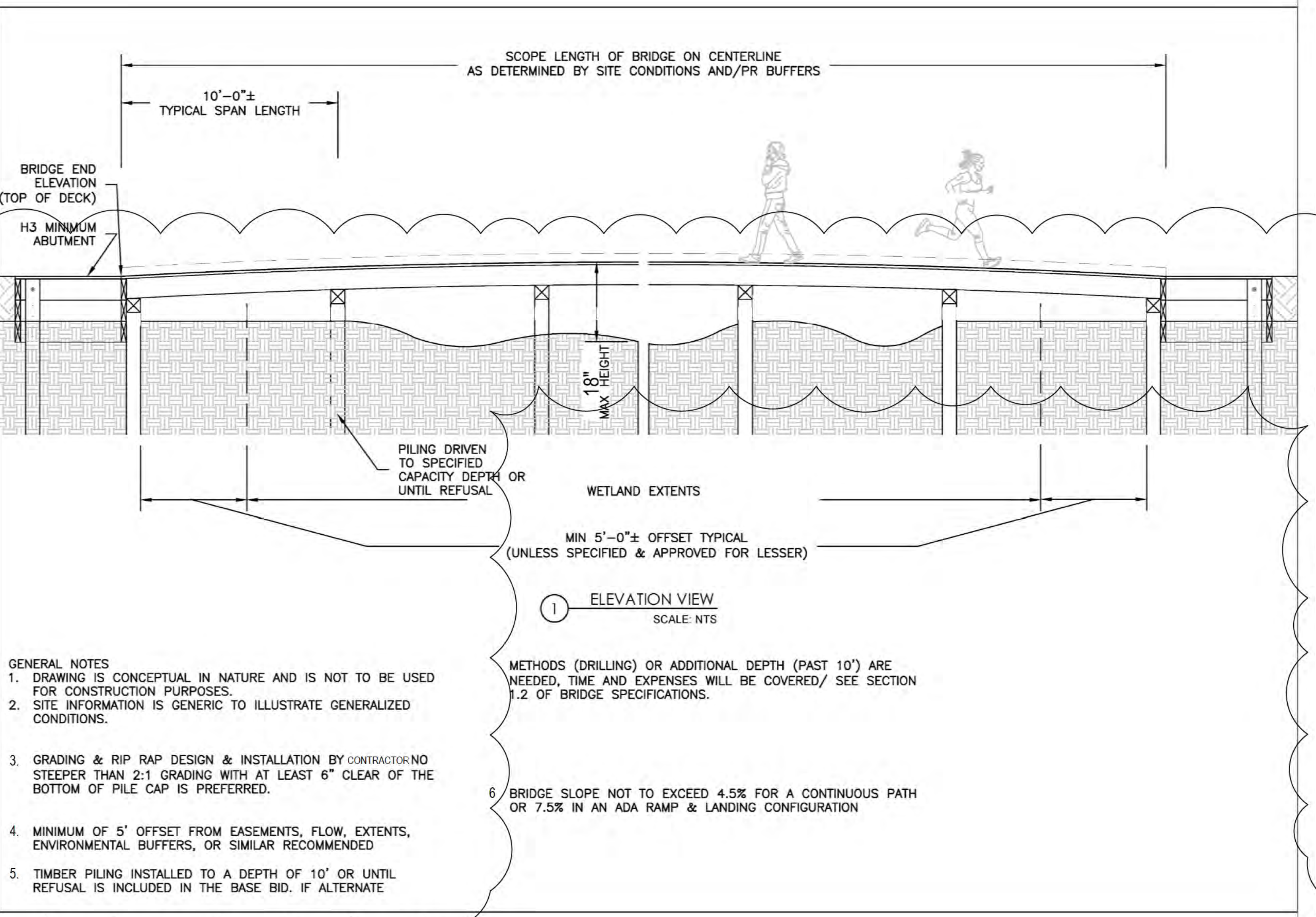
L501



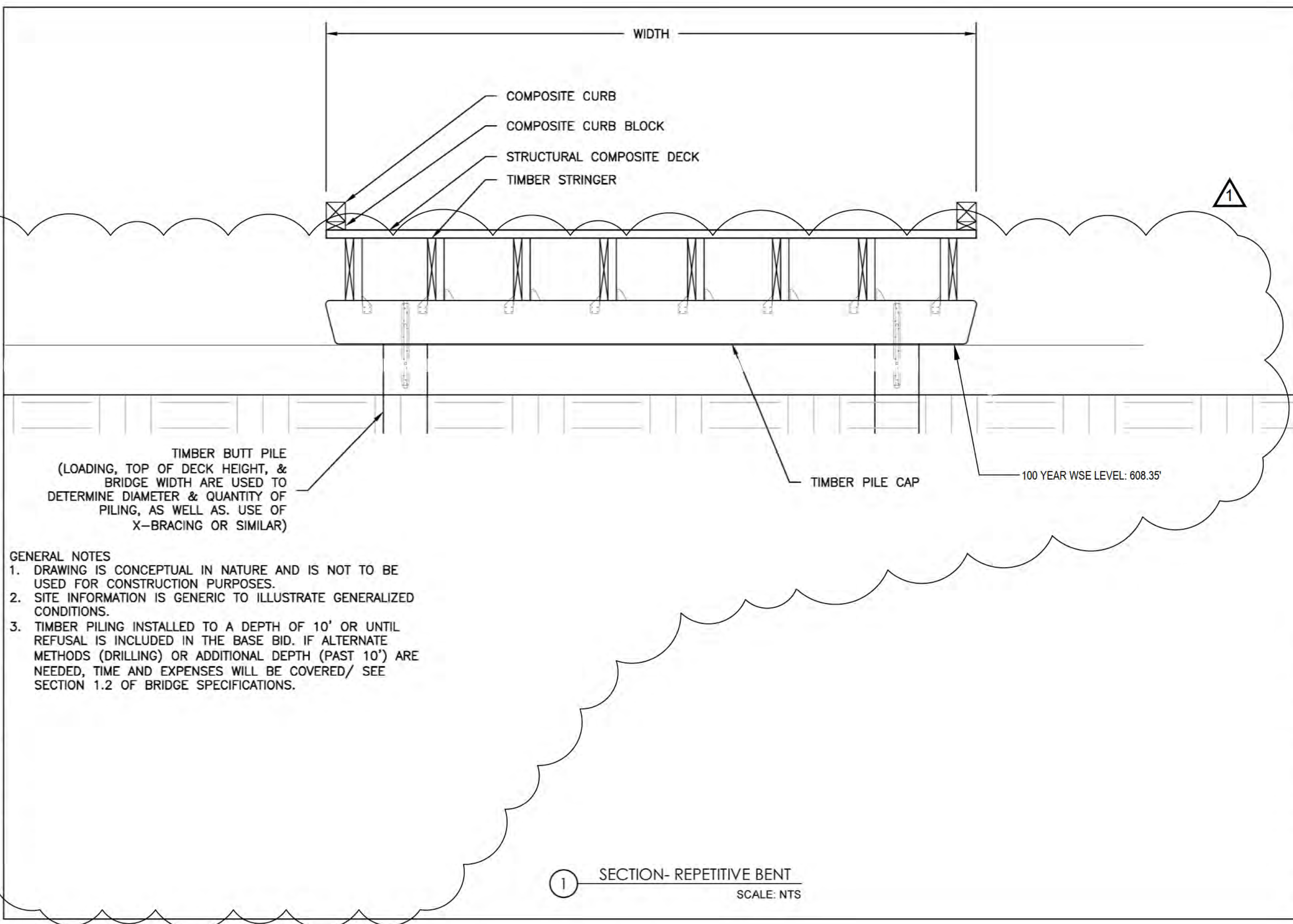
1 12" Nyooplast Yard Drain
N.T.S.



3 French Drain
SCALE: 1" = 1'-0"
d-util_french_drain_12.dwg



2 Boardwalk
SCALE: 1" = 1'-0"



1 SECTION- REPETITIVE BENT
SCALE: NTS

YORK BRIDGE CONCEPTS
THE PREMIER TIMBER BRIDGE COMPANY
240 BRIDLE TRAIL LANE, PLAINFIELD, IL 60545
WWW.YORKBRIDGE.COM 630.235.4710

CLIENT/CONTRACTOR:
SUBAT FOREST PRESERVE

ENGINEER OF RECORD:
ZEYN UZMAN, PE
303 CHARLESTON GREENWAY, MALDEN, MA 02148

PROJECT INFORMATION:
SUBAT FOREST PRESERVE
TIMBER PEDESTRIAN BRIDGE
VEHICULAR:
N/A
90 PSF OR 2 TON (L/360)
LUTZ, FLORIDA
PROJECT NUMBER:
PAP-2024

REV #	DATE	BY

DRAWN BY: V.FALZONE
DATE: 4/10/2024
PAGE NAME: REPETITIVE BENT
SHEET NO.: 301



Kendall County Agenda Briefing

Meeting Type: Other Committee
Meeting Date: 10/10/2024
Subject: 2023-2024 Stormwater Management Activities Report
Prepared by: Matthew H. Asselmeier, AICP, CFM
Department: Planning, Building and Zoning

Action Requested:

2023-2024 Stormwater Management Activities Report-Discussion Only

Previous Board/Committee Review:

N/A

Fiscal impact:

N/A

Background and Discussion:

Since the October 2023, Stormwater Management Oversight Committee Hearing, the following stormwater related items have occurred:

1. One (1) Stormwater Management Ordinance variance was granted for work at Subat Forest Preserve.
2. The balance of the Fox River Watershed Stormwater Mitigation Fee-In-Lieu Account remained at Three Hundred Eighty-Nine Thousand Eight Hundred Dollars (\$389,800). Some of these funds will be used by The Kendall County Forest Preserve District for a dam removal project.
3. The balance of the Upper Illinois Watershed Stormwater Mitigation Fee-In-Lieu Account remained at Two Thousand Six Hundred Dollars (\$2,600).
4. The County received sixteen (16) applications for stormwater management permits. The County issued ten (10) stormwater management permits. The County closed twelve (12) stormwater permits. As of the date of this memo, there are thirty-seven (37) stormwater project escrow accounts.
5. The County renewed the engineering contract with WBK Engineering for stormwater related reviews for the first time since 2009.
6. In January, the County, WBK Engineering, and the Corps of Engineers held a training on

Waters of the United States regulations and good housekeeping practices; eleven (11) people attended the training. WBK Engineering held a training on good housekeeping practices with the Township Highway Commissioners.

7. In March, the Illinois Department of Natural Resources conducted a Community Assessment Visit (audit) with the County. As of the date of this memo, the County has not received the results of the Visit.
8. WBK Engineering completed the Annual NPDES Report and the NPDES Report was submitted to the State.
9. The State published a new model floodplain ordinance in 2022. With codification complete, WBK Engineering and Staff will work on a list of proposed changes to cleanup and update some language.
10. 2511 Wildy Road has been in court most of 2023 and all of 2024 for violations to the Stormwater Management Ordinance. The property owners placed fill in the floodplain, worked in the channel of the Aux Sable Creek, and installed a fence in the floodplain without a permit. The court has granted continuances while the property owner worked with the State and Corps to obtain applicable permits. The next court is October 17, 2024.
11. The owner of 8150 Schlapp Road was found guilty of piling materials greater than three feet (3') in height without a permit, obtained a stormwater permit after the fact, and had to pay a fine of Five Hundred Dollars (\$500). The fine remains unpaid.
12. Four (4) bridges foot bridges were installed on properties in the 16000 block of Griswold Springs Road without permits. The property owners were working with an engineer to obtain proper permits from the State. The next court date is December 19, 2024.
13. 7821 Route 71 was found guilty of disturbing more than one (1) acre of ground without a permit and was fined Eighteen Thousand, One Hundred Dollars (\$18,100). Additional investigations are ongoing.
14. WBK Engineering is investigating a drainage issue at 45 Settlers Lane.
15. The County and WBK Engineering are working on a training session for homeowners' associations.

Staff Recommendation:

N/A

Attachments:

N/A



Kendall County Agenda Briefing

Meeting Type: Other Committee
Meeting Date: 10/10/2024
Subject: NPDES Survey Results
Prepared by: Matthew H. Asselmeier, AICP, CFM
Department: Planning, Building and Zoning

Action Requested:

NPDES Survey Results-Discussion Only

Previous Board/Committee Review:

N/A

Fiscal impact:

N/A

Background and Discussion:

The County sent the NPDES survey to the townships at the end of June. 2024 was the sixth (6th) time the County sent the survey.

Seven (7) townships responded compared to four (4) townships in 2023, 2022, 2021, and 2020, and five (5) townships in 2019. Bristol Township responded for the first time since 2022. Fox Township responded for the first time since 2019. Lisbon Township and Oswego Township responded every year.

The topic of how to properly store and dispose common household products remained the most popular topics for increased learning among four (4) townships. However, this topic was the least popular topic in three (3) townships. Incorporating green infrastructure was the topic of middle interest for four (4) townships; this topic historically has been the topic of middle interest. Composting was the topic of middle interest for the three (3) other townships.

The Townships generally do not use the stormwater information on the County's website; this has been historically the case.

Five (5) townships felt that the quality of surface water was important to the residents of their township. Five (5) townships also felt that protecting the quality of surface water was important to their agency's work.

Over the years, respondents have not utilized volunteer information on the County's website and that remained true in 2024.

Respondents were least interested in river clean-ups and most interested in electronics recycling; this has been historically the case.

There were no illicit discharges in any of the responding townships.

The majority of respondents would like the County to perform more visual inspections and perform more grab samples downstream when illicit discharges occur. The Townships have historically responded the same way to this question.

Townships historically felt that the County does an adequate job of inspecting soil erosion and sediment control at construction sites and this remained true with in the 2024 survey with five (5) townships agreeing with this statement. However, for the first time since 2019, two (2) townships responded no to this question.

2024 was the third year with the question regarding good housekeeping. Only three (3) townships felt that they had a clear understanding of good housekeeping compared to one (1) township in 2023 and the County offering a training on the topic earlier in 2024. Two (2) townships said they attended the training and four (4) townships said the training should be repeated.

2023 was the first year where the majority of responding townships felt the County was taking the necessary steps to reduce flooding and this trend continued in 2024. However, Lisbon and Seward responded no to this question; a reversal for Lisbon Township from 2023. Oswego responded yes to this question for the first time.

The survey composite and comparison of the previous survey responses are attached.

Staff Recommendation:

N/A

Attachments:

Survey Composite

Comparison of Previous Responses

NPDES Annual Evaluation Survey Questions
Kendall County

Public Education and Outreach

1. What topics are you interested in learning more about that the County could provide information on for the public? Please rank the following list from 1 to 3 with 1 being most interested and 3 being least interested.
 - A. How to properly store and dispose of common household products such as fuel, oil, paint, etc. 1 (Seward, Oswego, Kendall, and Fox) 3 (Bristol, Lisbon, and Little Rock)
 - B. How to incorporate green infrastructure such as rain gardens, rain barrels, or permeable pavement onto my property to improve rainwater runoff. 3 (Seward and Fox) 1 (Bristol) 2 (Oswego, Lisbon, Kendall, and Little Rock)
 - C. How to compost to reduce the amount of waste my household generates. 1 (Lisbon and Little Rock) 2 (Seward, Bristol, and Fox) 3 (Oswego and Kendall)

2. Do you utilize the stormwater information listed on the County's website at <https://www.kendallcountyil.gov/departments/planning-building-zoning/npdes/>?
 - A. Yes 2 (Seward and Kendall)
 - B. No 5 (Bristol, Oswego, Lisbon, Fox, and Little Rock)

3. Do you find the stormwater information listed on the County's website helpful?
 - A. Yes 2 (Seward and Kendall)
 - B. No
 - C. Do not utilize information on County Website 5 (Bristol, Oswego, Lisbon, Fox, and Little Rock)

4. Do you feel the quality of surface water (rivers, streams, lakes, ponds, etc.) is important to the people that live in your Township?
 - A. Yes 5 (Seward, Bristol, Oswego, Kendall, and Little Rock)
 - B. No 2 (Lisbon and Fox)

5. Do you feel protecting the quality of surface water (rivers, streams, lakes, ponds, etc.) is an important element of your agency's work and responsibility?
 - A. Yes 5 (Seward, Bristol, Oswego, Kendall, and Little Rock)
 - B. No 1 (Lisbon)
 - C. Kind Of 1 (Fox)

Public Participation/Involvement

1. Do you think the County offers enough volunteer opportunities for members of the community?
 - A. Yes 2 (Kendall and Fox)
 - B. No

- C. Not familiar with County volunteer opportunities 5 (Seward, Bristol, Oswego, Lisbon, and Little Rock)
2. Do you utilize the volunteer opportunities information listed on the County's website at <https://www.kendallcountyil.gov/departments/administration-services/volunteer-opportunities?>
 - A. Yes 1 (Kendall)
 - B. No 5 (Bristol, Oswego, Lisbon, Fox, and Little Rock)
 - C. No Response 1 (Seward)
 3. Do you find the volunteer opportunities information listed on the County's website helpful?
 - A. Yes 2 (Kendall and Fox)
 - B. No
 - C. Not familiar with County volunteer opportunities 4 (Bristol, Oswego, Lisbon, and Little Rock)
 - D. No Response 1 (Seward)
 4. What volunteer opportunities would you be interested in in participating in in the future? Please rank the following list from 1 to 3 with 1 being most interested and 3 being least interested.
 - A. River clean-up 1 (Bristol and Oswego) 2 (Little Rock) 3 (Lisbon, Kendall, and Fox)
 - B. Electronic recycling 1 (Lisbon, Kendall, Fox, and Little Rock) 2 (Bristol and Oswego)
 - C. Household waste (fuel, oil, paint, etc.) recycling 2 (Lisbon, Kendall, and Fox) 3 (Bristol, Oswego, and Little Rock)
 - D. No Response 1 (Seward)

Illicit Discharge Detection & Elimination

1. If an illicit discharge is identified by a Township staff member or reported to the Township office, do you work with the County to get it removed?
 - A. Yes 1*(Little Rock)
 - B. No
 - C. Have not identified illicit discharge. 6 (Bristol, Oswego, Lisbon, Kendall, Fox, and Little Rock*)
 - D. No Response 1 (Seward)
2. Do you feel the County is doing a sufficient job in identifying, tracking, and removing illicit discharges and non-stormwater discharges that are significant polluters within the County?
 - A. Yes
 - B. No

- C. There have not been illicit discharges identified within my Township.
6 (Bristol, Oswego, Lisbon, Kendall, Fox, and Little Rock)
 - D. No Response 1 (Seward)
3. What can the County do to better identify and track illicit discharges?
- A. Perform more visual inspections at outfalls throughout the County.
 - B. Once an illicit discharge is identified perform more grab samples downstream of the location. 1 (Kendall)
 - C. Both of the above. 3 (Oswego, Lisbon, and Fox)
 - D. None of the above. 1 (Bristol)
 - E. Other:
My concern now is as it was last is to keep Ausable Creek Clear. They are not doing a good job of that at Forest Preserve Area (Seward)
Don't Know (Little Rock)

Construction and Post-Construction Runoff Control

1. Do you feel that the County does an adequate job inspecting soil erosion and sediment control on construction sites within your township?
- A. Yes 5 (Bristol, Oswego, Kendall, Fox, and Little Rock)
 - B. No 2 (Seward and Lisbon)
 - C. There have not been construction projects within my Township during the past year.
2. What can the County do to better monitor soil erosion and sediment control issues on construction sites?

Make sure they have in place. (Seward)

Existing permitting process seems to be well administered. Spot checks during other inspection processes might ensure compliance. (Kendall)

Nothing (Little Rock)

N/A (Bristol, Oswego, Lisbon, and Fox)

Pollution Prevention/Good Housekeeping

1. Do you have a clear understanding of “Good Housekeeping” under the NPDES regulation?
- A. Yes 3 (Seward, Bristol, and Kendall)
 - B. No 4 (Oswego, Lisbon, Fox, and Little Rock)
2. Do you feel you have adequate resources for training of your staff members to keep them informed on stormwater pollution prevention practices?
- A. Yes 4 (Seward, Bristol, Oswego, and Kendall)
 - B. No 2 (Lisbon and Little Rock)
- Unsure 1 (Fox)
- If No, what resources would you like to have available?
- None Available (Lisbon)

Not Aware of Resource (Little Rock)

3. Was the County sponsored presentation/training that was offered in 2024 on good housekeeping useful?
 - A. Yes 2 (Seward and Bristol)
 - B. No
 - C. Did Not Attend the Training 5 (Oswego, Lisbon, Kendall, Fox, and Little Rock)

4. Is there value in repeating good housekeeping training?
 - A. Yes 4 (Seward, Oswego, Kendall, and Fox)
 - B. No 3 (Bristol, Lisbon, and Little Rock)

5. Do you feel the County is taking necessary measures to mitigate flooding throughout the County?
 - A. Yes 5 (Bristol, Oswego, Kendall, Fox, and Little Rock)
 - B. No 2 (Seward and Lisbon)

General comments or questions regarding Stormwater Management and/or NPDES requirements:

Attend training at County Highway; Probably good to repeat training because people get forgetful; Keeping creeks clear is important; Keep Ausable creek cleared is important. A lot of downed trees slows water flow (example) Forest Preserve Area. Seward Township is very flat on west side. (Seward)

Recent heavy rains have shown field residue to be an ongoing and increasing issue – with less tillage practices becoming more prevalent. Additional education and awareness of how to mitigate that would be beneficial. (Kendall)

Township: _

Seward (Scott Cryder)

Bristol

Oswego

Lisbon

Kendall

Fox (Randy Seggebruch)

Little Rock (JoAnn Gryder and Dick Wade)

	2019 Notes	2020 Notes	2021 Notes	2022 Notes	2023 Notes	2024 Notes
Dispose Products						
Most Interested	7 4 From OS, LR, SE, LS, Fox	2 NAS and BG	2 NAS and OS	2 LS and SE	2 Ken and LR	4 SE, OS, Ken, and Fox
Middle Interested		1 BL		2 OS and BR	1 LS	
Least Interested			1 LS			3 BR, LS, and LR
Incorporate Green Infrastructure						
Most Interested		1 OS		2 OS and BR		1 BR
Middle Interested	5 2 From OS, SE, LS, Fox	1 BL	1 LS		3 Ken, LS, and LR	4 OS, LS, Ken, and LR
Least Interested	1 LR	2 NAS and BG	2 NAS and OS	1 LS		2 SE and Fox
Compost						
Most Interested			2 LS and SE		1 OS	2 LS and LR
Middle Interested		3 NAS BL and BG	2 NAS and OS	1 LS	1 LS	3 SE, BR, and Fox
Least Interested	6 2 From OS, LR, SE, LS, Fox			2 OS and BR	2 Ken and LR	2 OS and Ken
Utilize SW Info						
Yes	1 OS	1 OS	1 SE	2 OS and SE	1 Ken	2 SE and Ken
No	7 3 From OS, LR, SE, LS, Fox	3 NAS, BL, and BG	3 NAS, LS, and OS	2 LS and BR	3 LS, LR, and OS	5 BR, OS, LS, Fox and LR
No Response						
SW Info Helpful						
Yes	2 OS and SE	1 OS	1 SE	2 OS and SE	1 Ken	2 SE and Ken
No	4 2 From OS, LS, Fox	2 BL and BG				
Do Not Utilize	N/A	N/A	3 NAS, LS, and OS	2 LS and BR	3 LS, LR, and OS	5 BR, OS, LS, Fox, and LR
No Response	3 OS, LR, SE	1 NAS				
Quality of Surface Water Importance						
Yes						5 SE, BR, OS, Ken, and LR
No						2 LS and Fox
No Response						
Protecting Quality of Surface						
Yes						5 SE, BR, OS, Ken, and LR
No						1 LS
No Response						1 Kind Of (Fox)
Enough Volunteer Opportunities						
Yes	2 OS and SE	2 OS and BG	1 SE		1 Ken	2 Ken and Fox
No	5 2 From OS, LR, LS, Fox	1 NAS		1 LS		
Not Familiar	N/A	N/A	3 NAS, LS, and OS	3 OS, SE, and BR	3 LS, LR, and OS	5 SE, BR, OS, LS, and LR
No Response	1 OS	1 BL				
Utilize Volunteer Opportunities						
Yes	1 SE	1 BL			1 Ken	1 Ken
No	7 4 From OS, LR, LS, Fox	2 OS and BG	4 NAS, LS, OS, and SE	4 OS, LS, SE, and BR	3 LS, LR, and OS	5 BR, OS, LS, Fox, and LR
No Response		1 NAS				1 SE
Volunteer Opportunities Helpful						
Yes	2 OS and SE	1 OS	1 SE		1 Ken	2 Ken and Fox
No	3 OS, LS, Fox	2 BL and BG			1 LR	
Not Familiar	N/A	N/A	3 NAS, LS, and OS	4 OS, LS, SE, and BR	2 LS and OS	4 BR, OS, LS, and LR
No Response	3 2 From OS and LR	1 NAS				1 SE
River Clean-up	Least Popular Except in OS		Least Popular	Least Popular	Least Popular	BR and OS Least Popular LS and Ken and Fox Mid LR
Electronic Recycling	Most Popular		Most Popular-NAS and OS	Most Popular-LS and BI Most Popular-Ken, LS, and OS		Middle BR and OS; Most Popular in LS and Ken and Fox and LR
Household Waste Recycling	Second Most Popular		Most Popular-LS and SE	Most Popular-SE and O Most Popular-OS		Least BR and OS and LR Middle Fox

Work With County on Illicit Discharge

Yes	2 2 From OS	1 OS		2 SE and BR	1 LR	1 LR*
No	0	0				
No Illicit Discharge No Response	5 2 From OS, LR, SW, LS, and F	3 NAS BL and BG	4 NAS, LS, OS, and SE	2 OS and LS	3 Ken, LS, and OS	6 BR, OS, LS, Ken, Fox and LR* 1 SE

Sufficient Job

Yes	1 OS	0	1 SE	1 LS		
No	0	0			1 OS	
No Illicit Discharge No Response	7 3 From OS, LR, SE, LS, Fox	4 OS, NAS, BL, and BG	3 NAS, LS, and OS	3 OS, SE, and BR	3 Ken, LS, and LR	6 BR, OS, LS, Ken, Fox, and LR 1 SE

What Can County Do Better

More Visual Inspections	0	1 BL				
More Grab Samples	1 SE	0			1 Ken	1 Ken
Both of Above	5 3 From OS, LR, and LS	2 NAS OS	3 LS, OS, and SE	4 OS, LS, SE and BR	2 LS and LR	3 OS, LS, and Fox
None of Above	0	1 BG	1 NAS			1 BR
Other	Educate Public and Public OI	0			Not Sure OS	2 SE and LR

Soil and Erosion Inspections

Yes	3 3 From OS	2 OS and BG	4 NAS, LS, OS, and SE	3 OS, LS, and SE	3 Ken, LS, and LR	5 BR, OS, Ken, Fox, and LR
No	2 LS and Fox	0				2 SE and LS
No Construction Projects	2 LR and SE	2 NAS and BL		1 BR	1 OS	

What Can County Do Better

Work Closer with Township (OS) Enforce Maintenance of Silt Fences (Fox) Keep Sediment out of Road Ditches (LS)	No Responses	Silt Fencing and Possil Enforce Rules (LS) Culverts After Floodin Adequate Response (SE)	Existing Permitting Process Seems to be well Administered. Spot Checks during other Inspection Processes (Ken) (2023 and 2024)
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Understanding Good Housing Keeping

Yes			1 BR	1 Ken	3 SE, BR, and Ken
No			3 OS, LS, and SE	3 LS, LR, and OS	4 OS, LS, Fox, and LR

Adequate Training

Yes	3 2 From OS and SE	2 NAS and BG		2 SE and BR	2 Ken and LR	4 SE, BR, OS, and Ken
No	3 1 From OS, LR, and Fox	1 OS	3 LS, OS, and SE	2 OS and LS	2 LS and LR	2 LS and LR
No Response	1 OS	1 BL	1 NAS			
Unaware of Training/No Training	1 LS and Fox					1 Unsure Fox

County 2024 Training Good

Yes						2 SE and BR
No						
Did Not Attend No Response						5 OS, LS, Ken, Fox, and LR

Repeat Training

Yes						4 SE, OS, Ken, and Fox
No						3 BR, LS, and LR
No Response						

Necessary Steps to Reduce Flooding

Yes	1 SE	1 BG		1 BR	3 Ken, LS, and LR	5 BR, OS, Ken, Fox and LR
No	6 3 From OS, LR, LS and Fox	3 NAS, OS, and BL	4 NAS, LS, OS, and SE	3 OS, LS, and SE	1 OS	2 SE and LS
No Response	1 OS					

Key

OS-Oswego
LR-Little Rock
SE-Seward

LS-Lisbon
Fox
NAS-Na-Au-Say
BL-Blank
BG-Big Grove
BR-Bristol
Ken-Kendall