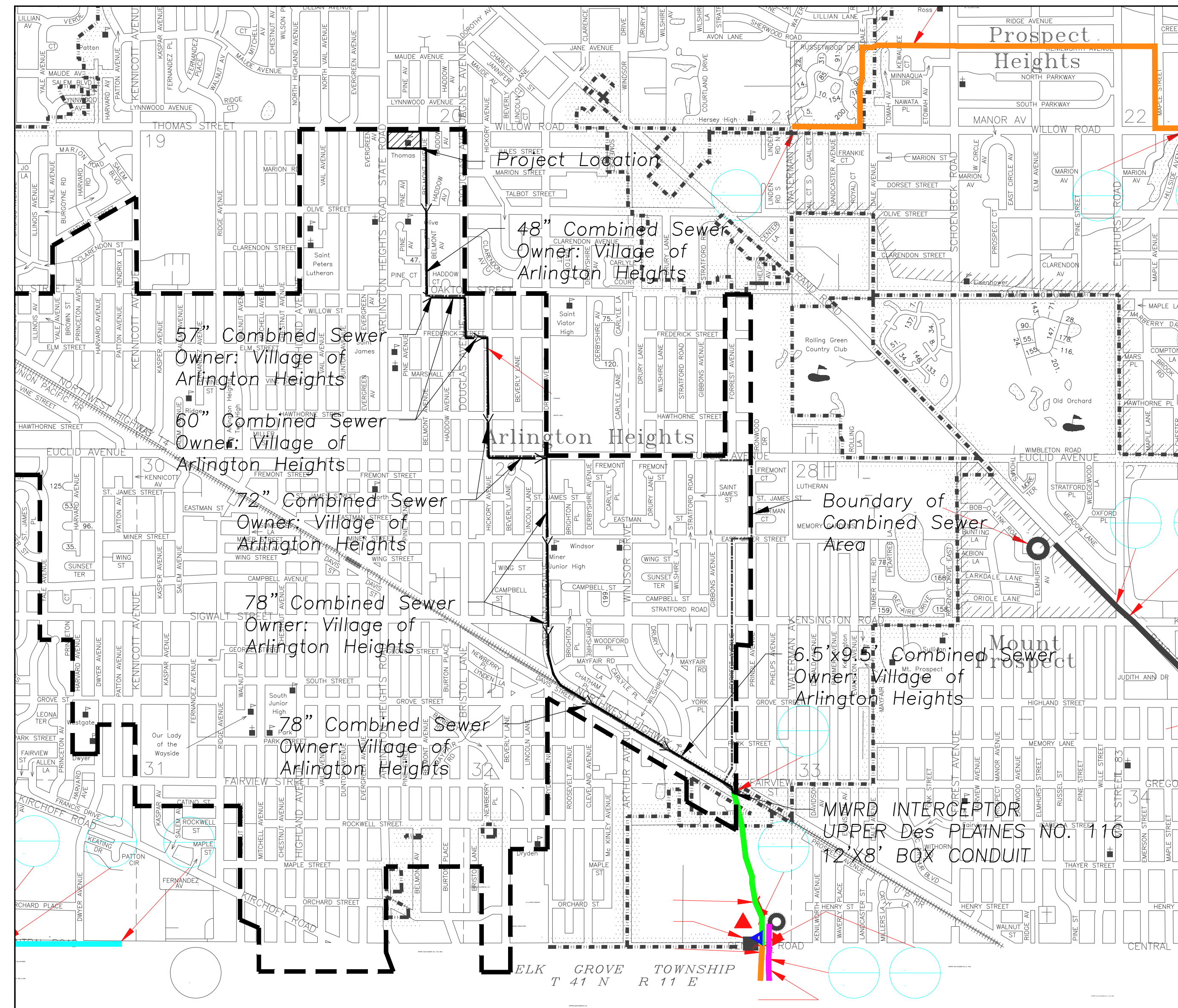
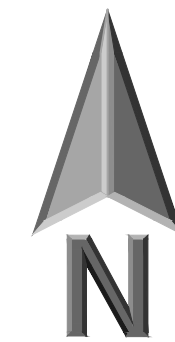


THOMAS MIDDLE SCHOOL ADDITION AND RENOVATIONS

1430 N. Belmont Ave. Arlington Heights, IL 60004



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SURVEY PROVIDED BY:

Plot of Survey and Topography Provided By R.E. Allen and Associates, Ltd. For Eriksson Engineering Associates on July 2, 2015. Order Number F5215.

PROJECT BENCHMARKS

Source Benchmark:
Village of Arlington Heights Monument .39 At The Northeast Corner of W. Olive Street And Arlington Heights Road.
Elevation = 703.13 NAVD88

Site Benchmark:
Cut "x" Cross On Concrete Sidewalk At The Northeast Corner Of Parcel
Elevation = 697.05 NAVD88

Easting: 1080389.665
Northing: 1980117.698

J.U.L.I.E.

Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility locations call: J.U.L.I.E. 1 (800) 892-0123



145 COMMERCE DRIVE, SUITE A
GRAYSLAKE, ILLINOIS 60030
PHONE: (847) 223-4804
FAX: (847) 223-4864
EMAIL: INFO@EEA-LTD.COM
PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-003220
EXPIRES: 04/30/2017

THOMAS MIDDLE SCHOOL ADDITION AND RENOVATIONS

1430 N. Belmont Avenue
Arlington Heights, Illinois

Reserved for Seal:

Expiration Date: _____

No.	Date	Description
	09/26/16	Issued For Bid & Permit
2	10/06/16	Addendum 2

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Design By: JC	Date: 07/25/16
Approved By: KC	Project No.

Sheet Title:

COVER SHEET

Sheet No:

C0.0

DRAINAGE STATEMENT

To The Best Of Our Knowledge And Belief, It Is Our Professional Opinion That The Proposed Improvements On The Property Are Not Within One-Hundred (100) Feet Of A Known Flood Protection Area. The Drainage Of The Surface Waters Will Not Be Changed By The Construction Of This Development Or Any Part Thereof, Or That If Such Surface Water Drainage Will Be Changed, Reasonable Provisions Have Been Made For The Collection And Diversion Of Such Surface Waters Into Public Areas Or Drains Which The Property Owner Has A Right To Use, And That Such Surface Waters Will Be Planned For In Accordance With Generally Accepted Engineering Practices So As To Reduce The Likelihood Of Damage To The Adjoining Property Because Of The Construction Of The Development.



ERIKSSON
ENGINEERING
ASSOCIATES, LTD.

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Design By:	JC	Date:	07/25/16
Approved By:	KC	Project No.	

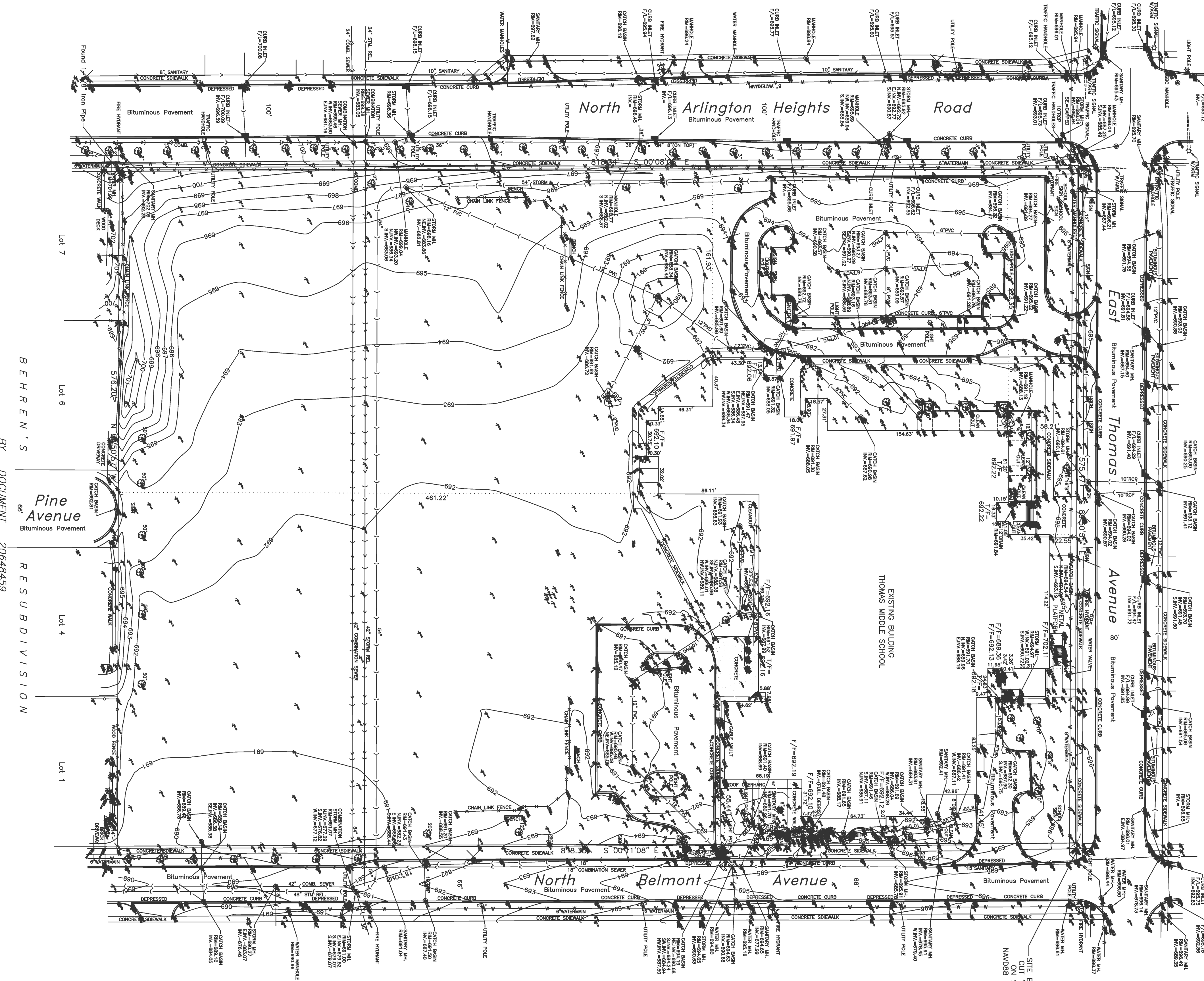
Sheet Title:
**PLAT OF
TOPOGRAPHIC
SURVEY**

Sheet No:
C0.1

PLAT OF SURVEY

LOTS 23, 25 AND THE NORTH 3/4 ACRES OF LOT 27 IN ALISON'S ADDITION
TO ARLINGTON HEIGHTS, BEING A SUBDIVISION OF THE SOUTHWEST QUARTER
OF SECTION 20, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD
PRINCIPAL MERIDIAN, EXCEPT THE WEST HALF OF THE SOUTHWEST QUARTER
THEREOF, AND THE SOUTH 4/5 ACRES OF THE EAST HALF OF THE SOUTHEAST
QUARTER OF SECTION 20, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD
PRINCIPAL MERIDIAN, ACCORDING TO THE LATENT AND EVIDENT RECORDS
OCTOBER 13, 1906, IN BOOK 92 OF PLATS, PAGE 42, AS DOCUMENT
3941663, IN COOK COUNTY, ILLINOIS.

THE PREMISES COMMONLY KNOWN AS:
1430 N. BELMONT AVENUE, ARLINGTON HEIGHT, IL
PARCEL ABE # 471219, S.F.
P.N. 03-20-303-008



STATE OF ILLINOIS

S.S.

COUNTY OF LAKE

BEHREN'S

RESUBDIVISION

BY DOCUMENT 20648459

DATE: JULY 20, 2016

AD 2016

DAY OF

2016

ILLINOIS PROFESSIONAL LAND SURVEYOR 39-3616

PROFESSIONAL DESIGN FIRM NO. 184-002732

FILE NO. 88-16

REBID.DWG

1 IN 40

GRAPHIC SCALE

0 20 40 80 160

FEET

NOTES:

1. PLAT IS VOID IF THE IMPRESSED SURVEYOR SEAL DOES NOT APPEAR.

2. ONLY THOSE BUILDING LINES OR EASEMENTS SHOWN ON A RECORDED BLANK

3. CERTIFICATE SURVEYING BUILDING

4. COMPARE YOUR DESCRIPTION AND SITE MARKINGS WITH THIS PLAT AND

5. AT ONCE REPORT ANY DISCREPANCIES WHICH YOU MAY FIND.

6. RE. ALLEN

PROFESSIONAL LAND SURVEYORS

1015 GRAYSLAKE, ILLINOIS, SUITE C

PHONE: 847-223-0814 FAX: 847-223-0880

GENERAL NOTES

- The Location of Existing Underground Utilities, Such As Watermain, Sewers, Gas Lines, Etc., As Shown On The Plans, Has Been Determined From The Best Available Information and is Given For The Convenience of The Contractor. However, The Owner and The Engineer Do Not Assume Responsibility In The Event That During Construction, Utilities Other Than Those Shown May Be Encountered, and That The Actual Location of Those Which Are Shown May Be Different From The Location As Shown On The Drawings. Contact Engineer Immediately If Surface and/or Subsurface Features Are Different Than Shown On The Drawings.
- Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.
- Notify The Owner, Engineer and The Village of Arlington Heights A Minimum of 48 Hours In Advance of Performing Any Work.
- All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work As Shown Hereon Shall Be Restored To Original Condition to the Satisfaction of the Owner at No Additional Cost to the Owner. It is incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.
- These Drawings Assume That The Contractor Will Utilize An Electronic Drawing File (DWG) and Stake All Site Improvements Accordingly.
- No Person May Utilize The Information Contained Within These Drawings Without Written Approval From Eriksson Engineering Associates, Ltd.
- The Engineer is Furnishing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Media Shall Verify All Dimensions And Locations Of Buildings With The Foundation Drawings And Architectural Site Plan, and Coordinate All Dimensions And Locations of All Site Items. If Conflicts Exist The User Of This Information Shall Contact The Engineer Immediately.
- Provide An As-built Survey Prepared By A Licensed Professional Land Surveyor In Accordance With The Authorities Having Jurisdiction Which Shall Include As a Minimum All Detention Basins and Best Management Practices, Include All Storm and Sanitary Sewers, Structure Locations, Sizes, Rim and Invert Elevations, Final Detention Volume Calculations For The Basin(s), Watermain and Valve and Appurtenance Locations.
- The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction, Latest Edition, And All Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless Noted Otherwise.

DEMOLITION NOTES

- All Signs to Be Removed Shall Be Salvaged and Stored in the Owner's Facility for Future Use as Applicable.
- Keep All Village of Arlington Heights Streets Free and Clear of Construction Related Dirt/Dust/Debris.
- Coordinate Existing Utility Removal with Local Authorities and Utility Companies Having Jurisdiction.
- The Existing Building is to Remain Operational During Construction. Therefore, the Temporary Relocation of All Necessary Utilities Serving the Existing Building Shall Be Coordinated Prior to the Commencement of Construction Operations.
- All Sawcutting Shall be Full Depth to Provide a Clean Edge to Match New Construction. Match Existing Elevations at Points of Connection for New and Existing Pavement, Curb, Sidewalks, etc.. All Sawcut Locations Shown Are Approximate and May Be Field Adjusted to Accommodate Conditions, Joints, Material Type, etc. Remove Minimum Amount Necessary for Installation of Proposed Improvements.
- Provide and Maintain All Necessary Traffic Control and Safety Measures Required During Demolition and Construction Operations Within or Near the Public Roadway.
- All Light Poles to Be Removed From Private Property Shall Be Removed in Their Entirety, Including Base and All Appurtenances. Coordinate Abandonment of Electrical Lines With Electrical Engineer and Owner Prior to Demolition.
- Perform Tree Pruning in All Locations Where Proposed Pavement And/OR Utility Installation Encroach Within The Existing Drip Line Of Trees To Remain. All Trenching Within The Drip Line Of Existing Trees To Remain Shall Be Done Radially Away From Trunk If Roots In Excess Of 1" Diameter Are Exposed. Roots Must Be Cut By Reputable Tree Pruning Service Prior To Any Transverse Trenching. Obtain Approval Of The Architect Prior To Operations For A Variance From This Procedure.
- Coordinate Tree Removal with Landscape Architect. All Trees To Be Removed Shall Be Removed In Their Entirety and Stumps Shall Be Ground To Proposed Subgrade. Use As Mulch for Proposed Landscaping Where Applicable and Acceptable to Architect.
- Provide Tree Protection Fencing Prior To Construction Operations. Maintain Throughout Construction.

GRADING NOTES

- Install And Maintain Silt Fence at the Perimeter of the Construction Zone. Install Hay Bale Erosion Control Around All Proposed and Existing Structures Receiving Drainage From Disturbed Areas. Silt Fabric Under the Lid is Not an Acceptable Alternative in Landscaped Areas.
- The Grading and Construction of Proposed Improvements Shall Be Done In A Manner Which Will Allow For Positive Drainage, and Not Cause Ponding of Stormwater on the Surface of Proposed Improvements.
- All Landscaped Areas Disturbed By Construction Shall Be Reseeded With 6 inches (Min.) to 12 inches (Max.) Topsoil and Sod Unless Noted Otherwise On The Landscape Drawings.
- Refer to Architectural Drawings for Locations and Patterns of Expansion and Control Joints in Concrete Pavement and Sidewalks.
- Accessible Parking Spaces and Loading Spaces Shall Be Sloped at Maximum 2.0% in Any Direction. Maximum Sidewalk Cross Slopes Shall be 2.0%. Maximum Longitudinal Sidewalk Slope Shall Be 4.5%. Contact Engineer if Conflicts Exist.

GEOMETRY NOTES

- All Dimensions Contained Herein Reference Back Of Curb, Face Of Retaining Wall, Edge Of Pavement, Center of Structure And Outside Face Of Building Foundation Unless Otherwise Noted.
- All Pavement Striping Shall Be 4" Wide Yellow Paint Per Specifications. All Cross Hatch Striping Shall Be 45° At 2'-0" Centers.
- All Accessible Parking Signs (R7-B) Must Be Placed at the Center of the Space and Within 5 Feet of the Space.
- Refer to Architectural Drawings for Exact Locations of All Buildings.
- Refer to Architectural Drawings for Locations and Details of All Permanent Site Fencing.
- Traffic Sign Posts Shall Be Breakaway Green U-Channel Posts, 2-1/8 ft, 11 Gauge Steel, Embedded 42" Minimum Into Ground.

UTILITY NOTES

- Utility Service Lines as Shown Hereon are Approximate. Coordinate The Exact Locations With The Plumbing Drawings. Coordinate The Locations With The Plumbing Contractor and/or the Owner's Construction Representative Prior to Installation of Any New Utilities.
- Refer to Plumbing Drawings for Continuation of All Utilities Within 5 Feet of Building Face.
- Field Verify Invert & Locations of Existing Utility Mains Prior to Installing any On-Site Utilities or Structures. All Elevations and Inverts Referencing Said Utility Shall Be Field Verified Prior To Installation Of Any New Structures or Utilities, and Adjustments Shall Be Made as Necessary. Contact Engineer Prior to Installation if Discrepancy Exists With These Drawings.
- Coordinate the Relocation of Any Utilities Encountered And Replacement Of Any Utilities Damaged. Within Influence Zone Of New Construction. Contact Engineer If The Existing Utilities Vary Appreciably From The Plans.
- All Water Main and Services Shall Be Installed at a Minimum Depth of 5.5' From Top of Finished Ground Elevation to Top of Main.
- Protection of water supplies shall be as described in Section 370.350 of the Illinois Recommended Standards for Sewage Works or Section 41-2.01 of the Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition.
- Clean Out All Existing and Proposed Storm Inlets and Catch Basins at the Completion of Construction.
- Provide Adequate Coupling Device and/or Oversized Concrete Flared-End Section to Accommodate HDPE Storm Sewer.
- The "Standard Specifications for Water and Sewer Main Construction in Illinois", Current Edition Shall Govern Work Where Applicable.

STRUCTURE NOTES

- All Catch Basins to Be Installed in Paved Areas Shall Have Neenah R2504-D Frame & Grate or Approved Equal.
- All Catch Basins to Be Installed in Landscaped Areas Shall Have Neenah R4340-B Frame & Grate or Approved Equal. For Cone Sections Install a Minimum of 4" Grade Rings For Topsoil Reseeding. For Flat Slab Tops install the Following Minimum Height of Grade Rings:
4" Diameter Structure- 4"
5" Diameter Structure- 6"
6" Diameter Structure- 8"
- All Catch Basins to Be Installed Along Curb and Gutter (B-6.12) Shall Have Neenah R3281-A Frame & Grate or Approved Equal.
- All Catch Basins to Be Installed Along Depressed Curb and Gutter (Dep B-6.12) Shall Have East Jordan Iron Works 5120 Catch Basin Inlet Frame and Grate, or Approved Equal.
- Where Structures are Shown Along the Curbside, Unless Specifically Stated Otherwise, It is Intended That the Frame of the Structure Is To Fall Within the Flowline Of The Gutter or at the Pavement Edge Where No Gutter Exists.
- All Manholes Shall Have Neenah R1713-B Frame & Closed Lid or Approved Equal, with "Storm" or "Sanitary" Imprinted as Appropriate.
- For All Manhole Structures to Be Adjusted, Install or Remove Adjusting Rings, New Cone Section or New Barrel Section As Necessary.
- All Flared End Sections 12" and Larger Shall Include an IDOT Standard Grate.
- All Flared End Sections Shall Be Concrete.
- All Sanitary Manholes Shall Include a Chimney Seal.

GRADING NOTES

- Install And Maintain Silt Fence at the Perimeter of the Construction Zone. Install Hay Bale Erosion Control Around All Proposed and Existing Structures Receiving Drainage From Disturbed Areas. Silt Fabric Under the Lid is Not an Acceptable Alternative in Landscaped Areas.
- The Grading and Construction of Proposed Improvements Shall Be Done In A Manner Which Will Allow For Positive Drainage, and Not Cause Ponding of Stormwater on the Surface of Proposed Improvements.
- All Landscaped Areas Disturbed By Construction Shall Be Reseeded With 6 inches (Min.) to 12 inches (Max.) Topsoil and Sod Unless Noted Otherwise On The Landscape Drawings.
- Refer to Architectural Drawings for Locations and Patterns of Expansion and Control Joints in Concrete Pavement and Sidewalks.
- Accessible Parking Spaces and Loading Spaces Shall Be Sloped at Maximum 2.0% in Any Direction. Maximum Sidewalk Cross Slopes Shall be 2.0%. Maximum Longitudinal Sidewalk Slope Shall Be 4.5%. Contact Engineer if Conflicts Exist.

SOIL EROSION & SEDIMENTATION CONTROL NOTES

- Illinois Urban Manual Shall Govern All Soil Erosion and Sediment Control, and Related Work.
- Contractor Shall Be Responsible for Compliance With IEPA NPDES and ILR10 Permit Requirements for Project.
- Soil Disturbance Shall Be Conducted in Such a Manner as To Minimize Erosion. Soil Stabilization Measures Shall Consider the Time of Year, Site Conditions, and the Use of Temporary or Permanent Measures.
- Soil Erosion and Sediment Control Features Shall Be Constructed Prior to the Commencement of Upland Disturbance.
- Temporary Soil Stabilization Shall Be Applied to Topsoil Stockpiles and Disturbed Areas, Where Construction Activity Will Not Occur For A Period of More Than 14 Calendar Days, Temporary Measures Shall Be Applied Within 7 Calendar Days of the End of Active Hydrologic Disturbance. The Sediment Control Measures Shall Be Maintained On A Continuing Basis Until The Site is Permanently Stabilized And All Inspections are Complete. Permanent Stabilization Shall Be Completed Within 14 Days after Completion of Final Grading of Soil.
- All Temporary And Permanent Erosion Control Measures Shall Be Removed Within 30 Days After Final Site Stabilization Is Achieved Or After The Temporary Measures are No Longer needed. Trapped Sediment And Other Disturbed Soil Areas Shall Be Permanently Stabilized.
- Final Site Stabilization is Defined By The EPA General Permit As Meaning That All Soil Disturbing Activities At The Site Have Been Completed, And That A Uniform Perennial Vegetative Cover With A Density Of 70 Percent Of The Cover For Unpaved Areas Not Covered By Permanent Structures Has Been Established Or Equivalent Permanent Stabilization Measures (Such As The Use Of Riprap, Gabions, Or Geotextiles) Have Been Employed.
- All Storm Sewer Structures That Are, Or Will Be, Functioning During Construction Shall Be Protected, Filtered, Or Otherwise Treated To Remove Sediment. The General Contractor Shall Use and Maintain "Tandy Pop" Inlet Protectors (or equal) and Filter Matties Around The Grate In Landscaped Areas And "Catch-All" Inlet Protectors (or equal, such as Pork Chop Sediguard) In Paved Areas To Prevent Siltation and Discharge Into Waterways.
- All Temporary And Permanent Sediment And Erosion Control Measures Must Be Maintained, Repaired, And Inspected in Conformance With All Applicable IEPA-NPDES Phase II And The Metropolitan Water Reclamation District of Greater Chicago.
- Following The Termination Of Construction Activities And Issuance Of The Required "Notice Of Termination", The Permittees Must Keep A Copy Of The Storm Water Pollution Prevention Plan, Inspection Reports, And Records Of All The Data Used To Complete The Notice Of Intent For A Period Of At Least Three Years Following Final Stabilization.
- Install And Maintain Silt Fence At The Perimeter Of The Construction Zone And Wetland Areas And As Shown On The Plans. Maintain Silt Fence Throughout Construction And Until Vegetation Has Been Fully Established.
- Contractor Shall Provide Qualified Soil Erosion and Sediment Control Inspector Services in Accordance with NPDES and Governmental Requirements. Inspections Shall occur at Every Seven Calendar Days Or Within 24 Hours of a 0.5" or Greater Rainfall Event. Engineer Shall Be Copied on Inspection Logs.
- The Erosion Control Measures Indicated On The Drawings Are The Minimum Requirements. Additional Measures May Be Required As Directed By The Qualified Soil and Erosion Sediment and Control Inspector Or Governing Agency.
- Unless Otherwise Indicated on the Drawings, Stabilize All Disturbed Ground Areas Where Slopes Exceed 6:1 or Within Swales with North American Green BioNet SC150BN Erosion Control Blanket, or Approved Equal.
- Report Releases of Reportable Quantities of Oil or Hazardous Materials if They Occur in Accordance with IEPA NPDES Requirements.
- All Concrete Washout Shall Conform To The "Temporary Concrete Washout Facility" Standards (Code 954) of the Illinois Urban Manual, Latest Edition.
- If Necessary, The SWPPP Shall Be Modified To Reflect Changes Required During The Effective Period Of The IEPA NPDES General Permit No ILR10 and Local and County Permits.
- Dewatering of Excavations Shall be Performed in a Manner Such as Through the use of Filter Bags or Polymer Treated Dewatering Swales, so as to Not Discharge Sediment Laden Water Into Storm Sewers Tributary to Open Water.

Pipe Material	Pipe Specification	Joint Specification
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 S-3212
High Density Polyethylene (HDPE)	ASTM D-3350	ASTM D-3251, 2620 (Heat Fusion)
	ASTM D-3035	ASTM D3212, F-477 (Gasketed)
Water Main Quality PVC 4-Inch To 36-Inch	ASTM D-2241	ASTM D-2672 Or D-3136
4-Inch To 12-Inch	AWWA C900	ASTM D-3212
14-Inch To 48-Inch	AWWA C905	ASTM D-3212

MWRDGC GENERAL NOTES

- Referenced Specifications
1. 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 Arlington Heights 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.
- Notifications
1. 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 708-568-4055).
2. The Village Of Arlington Heights 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 Of Each Work Phase.
3. 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 U.I.L.T.C. At 1-800-892-0123.
- General Notes
1. All Elevations Shown On Plans Reference The North American Vertical Datum Of 1988 (NAVD88).
2. MWRD, The Municipality And The Owner Or Owner's Representative Shall Be Filled With Granular Material Or Removed.
3. 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.
4. The Proposed Improvements Must Be Constructed In Accordance With The Engineering Plans As Approved By MWRD And The Municipality. Any 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.
5. 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.
6. Any Existing Pavement, Sidewalk, Driveway, Etc., Damaged During Construction Operations And Not Called For To Be Replaced Shall Be Replaced At The Expense Of The Contractor.
7. Material And Compaction Testing Shall Be Performed In Accordance With The Requirements Of The Municipality, MwrD, And Owner.
8. The Underground Contractor Shall Make All Necessary Arrangements To Notify All Inspection Agencies.
9. All New And Existing Utility Structures On Site And In Areas Disturbed During Construction Shall Be Adjusted To Finish Grade Prior To Final Inspection.
10. Record Drawings Shall Be Kept By The Contractor And Submitted To The Engineer As Soon As All Construction 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, Gates, Tees Or Bends Shall Be Tied To A Fire Hydrant.
- Sanitary Sewer
1. The Contractor Shall Take Measures To Prevent Any Polluted Water, Such As Ground And Surface Water, From Entering The Existing Sanitary Sewers.
2. 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.
3. 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.
4. All Sanitary Sewer Construction Shall Be In Accordance With The Standard Specifications For Water And Sewer Main Construction in Illinois (Latest Edition).
5. All Floor Drains Shall Discharge To The Sanitary Sewer System.
6. All Downspouts And Footing Drains Shall Discharge To The Storm Sewer System.
7. 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 Specification	Joint Specification
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 S-3212
High Density Polyethylene (HDPE)	ASTM D-3350	ASTM D-3251, 2620 (Heat Fusion)
	ASTM D-3035	ASTM D3212, F-477 (Gasketed)
Water Main Quality PVC 4-Inch To 36-Inch	ASTM D-2241	ASTM D-2672 Or D-3136
4-Inch To 12-Inch	AWWA C900	ASTM D-3212
14-Inch To 48-Inch	AWWA C905	ASTM D-3212

MWRDGC GENERAL NOTES

8. All Sanitary Sewer Construction (and Storm Sewer Construction in Combined Sewer Areas) Requires Stone Bedding With Stone 4 To 1 In Size, With Minimum Bedding Thickness Equal To 4 The Outside Diameter Of The Sewer. The Bedding Stone Shall Be No Larger Than More Than Eight (8) Inches, Material Shall Be CA-11 Or CA-12 And Shall Be Extended At Least 12" Above The Top Of The Pipe When Using PVC.
9. "Band Seal" Or Similar Non-shear Flexible-type Couplings Shall Be Used In The Connection Of Sewer Pipes Of Dissimilar Materials.
10. Below The Flood Protection Elevation (FPE = BFE + 2 Feet), All Sanitary Sewer Manholes And Structures Shall Be Provided With Bolted, Watertight Covers. Sanitary Lids Shall Be Constructed With A Concealed Ruckle Hole And Watertight Gasket With The Word "Sanitary" Cast Into The Lid.
11. 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 (Sawer-Top Machine Or Similar) And Proper Installation Of Hubwe 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 Or Seal Of Similar Couplings To Hold It Firmly In Place.
12. 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 And Storm Sewers And Watermain Shall Be Maintained Unless: The Sewer is Laid In 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 Minimum 18" Vertical Separation, If Either The Vertical Or Horizontal Distances Described Above Cannot Be Maintained, Or The Sewer Crosses Above The Watermain, The Sewer Shall Be Constructed To Watermain Standards.
13. All Existing Septic Systems Shall Be Abandoned. All Existing Tanks Shall Be Filled With Granular Material Or Removed.
14. All Sanitary Manholes, (And Storm Manholes In Combined Sewer Areas), Shall Have A Minimum Inside Diameter Of 48 Inches. All Manholes Be Cast In Place Or Pre-Cast Reinforced Concrete.
15. 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.
16. All Abandoned Sanitary Sewers Shall Be Plugged At Both Ends With At Least 2 Feet Long Non-shrink concrete Or Mortar Plug.
17. Except For Foundation/Footing Drains Provided To Protect Buildings, Or Perforated Pipes Associated With Volume Control Facilities, Driveway/Underdrains/Perforated Pipes Are Not Allowed To Be Connected To Or Tributary To Combined Sewers, Sanitary Sewers, Or Storm Sewers Tributary To Combined Sewers. All Combined Sewers Examined Shall Pass Through A Sediment Filter 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.
18. 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 Maintenance Shall Be Performed To Ensure Functionality. In The Event Of A Sewer Surge 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.
- Erosion And Sediment Control
1. The Contractor Shall Install The Erosion And Sediment Control Devices As Shown On The Approved Erosion And Sediment Control Plan.
2. Erosion And Sediment Control Practices Shall Be Functional Prior To Hydrologic Disturbance Of The Site.
3. All Design Criteria, Specifications, And Installation Of Erosion And Sediment Control Practices Shall Be In Accordance With The Illinois Urban Manual.
4. A Copy Of The Approved Erosion And Sediment Control Plan Shall Be Maintained On The Site At All Times.
5. 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.
6. 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.
7. 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.
8. 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.

9. 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.
10. 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.
11. All Flood Protection Areas And Volume Control Facilities Shall, At A Minimum, Be Protected With A Double-Row Of Silt Fence (Or Equivalent).
12. Volume Control Facilities Shall Not Be Constructed Until All Of The Contributing Drainage Area Has Been Stabilized.
13. 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.
14. Earthen Embankment Side Slopes Shall Be Stabilized With Appropriate Erosion Control Blanket.
15. Storm Sewers That Are Or Will Be Functioning During Construction Shall Be Protected By Appropriate Sediment Control Measures.
16. 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.
17. 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.
18. The Contractor Shall Be Responsible For Trench Dewatering And Excavation For The Installation Of Sanitary Sewers, Storm Sewers, Watermain 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 Upland Area. Sediment Laden Waters Shall Not Be Discharge To Waterways, Flood Protection Areas Or The Combined Sewer System.
19. All Permanent Erosion Control Practices Shall Be Initiated Within Seven (7) Days Following The Completion Of Soil Disturbing Activities.
20. 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.
21. All Temporary Erosion And Sediment Control Measures Shall Be Removed Within Thirty (30) Days After Permanent Site Stabilization.
22. 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.



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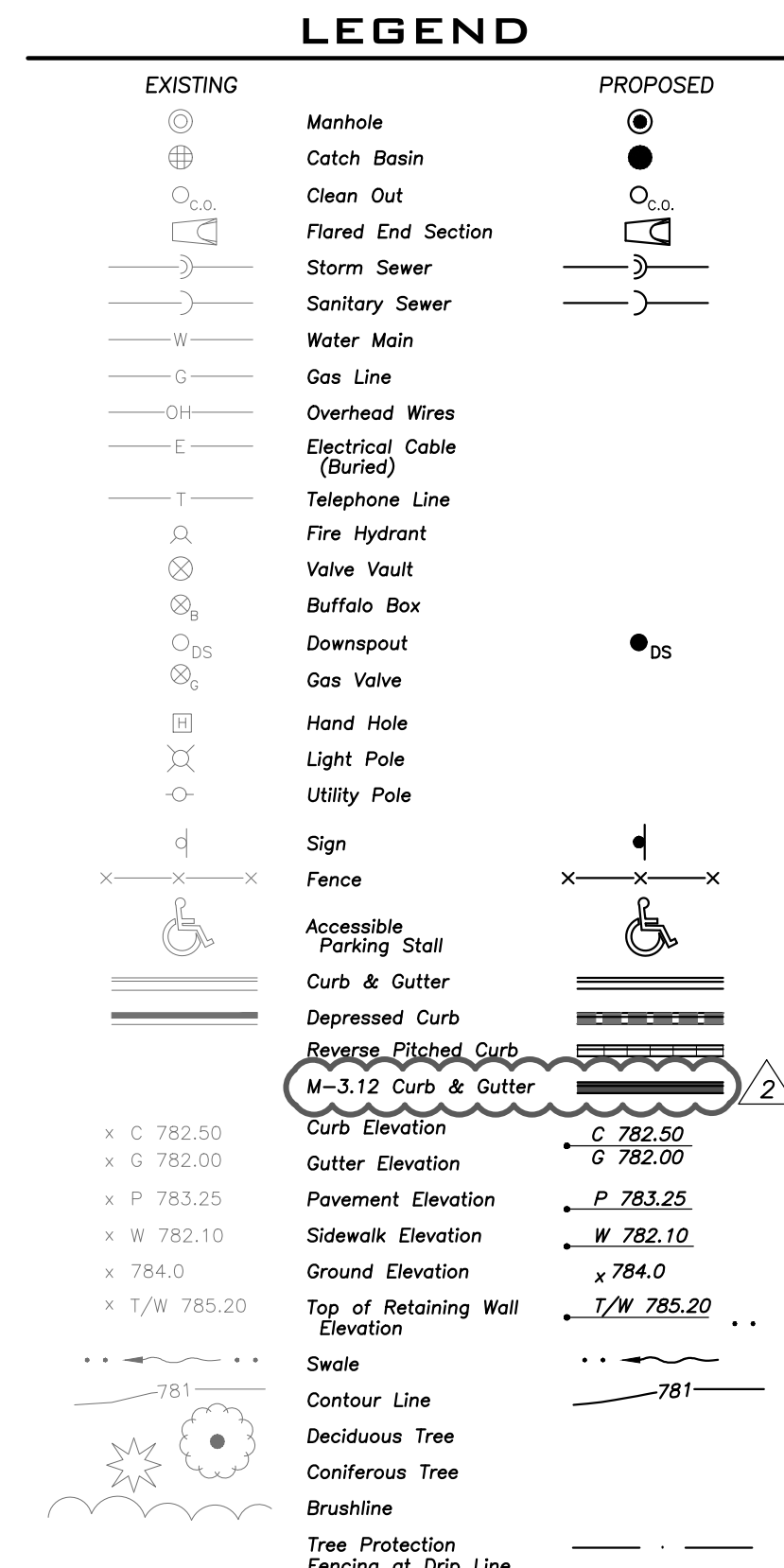
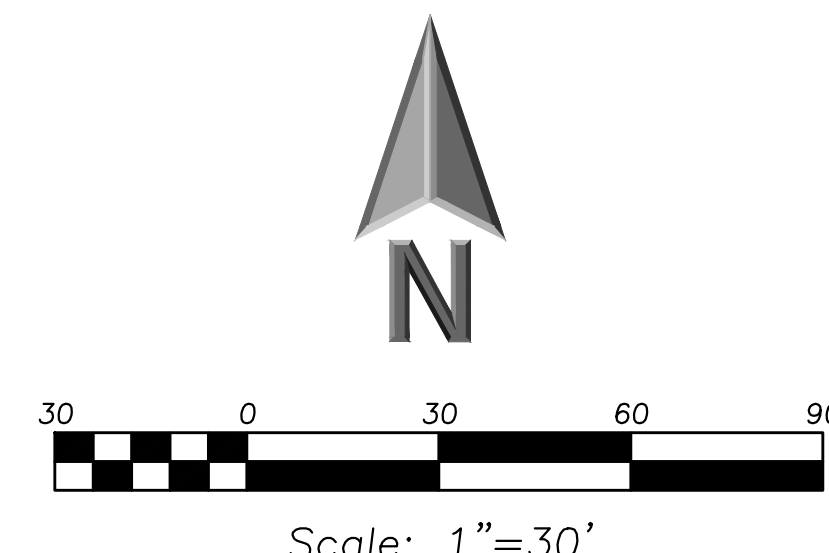
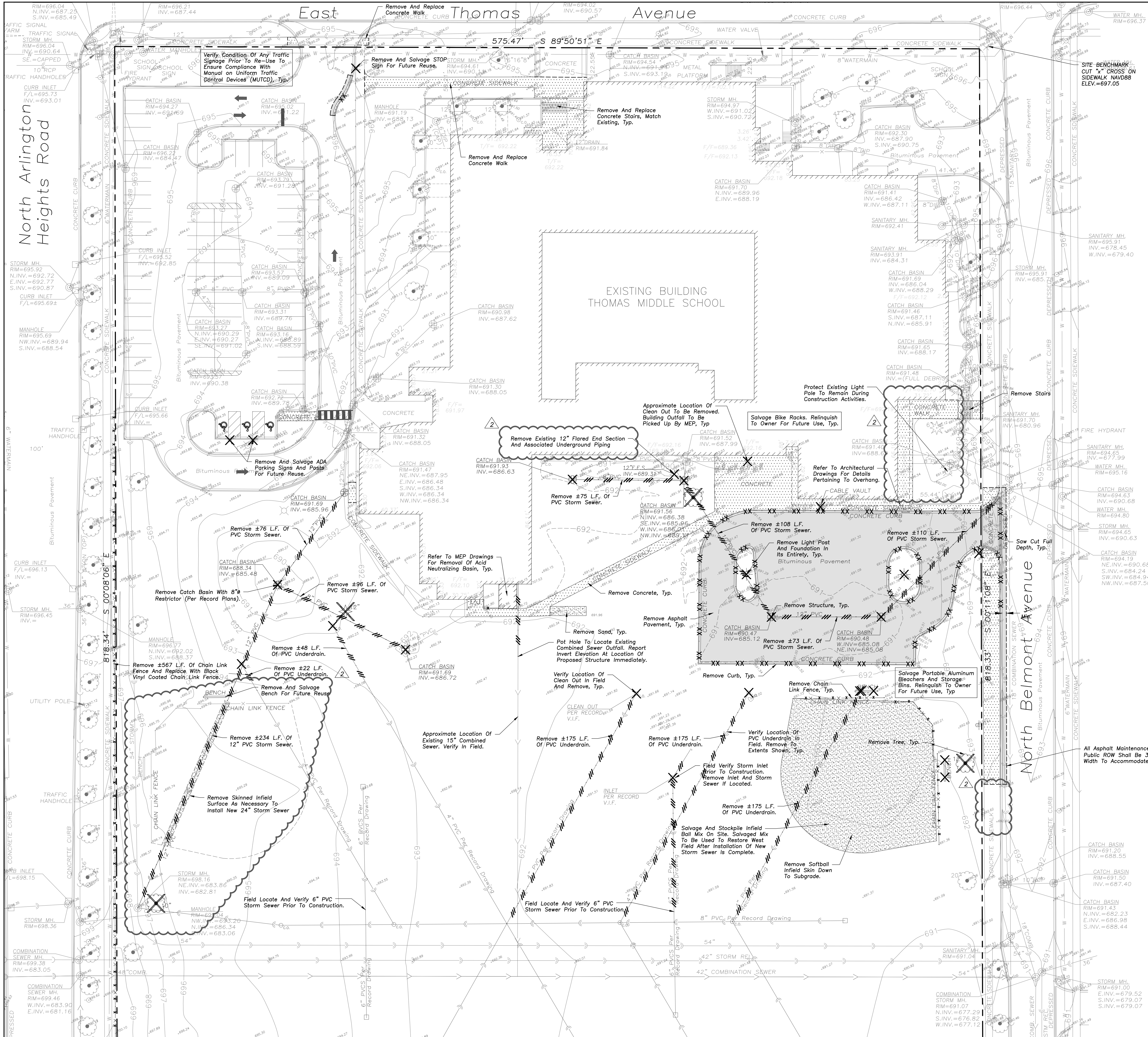
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Sheet Title:

SITE WORK
NOTES

Sheet No:

C0.2





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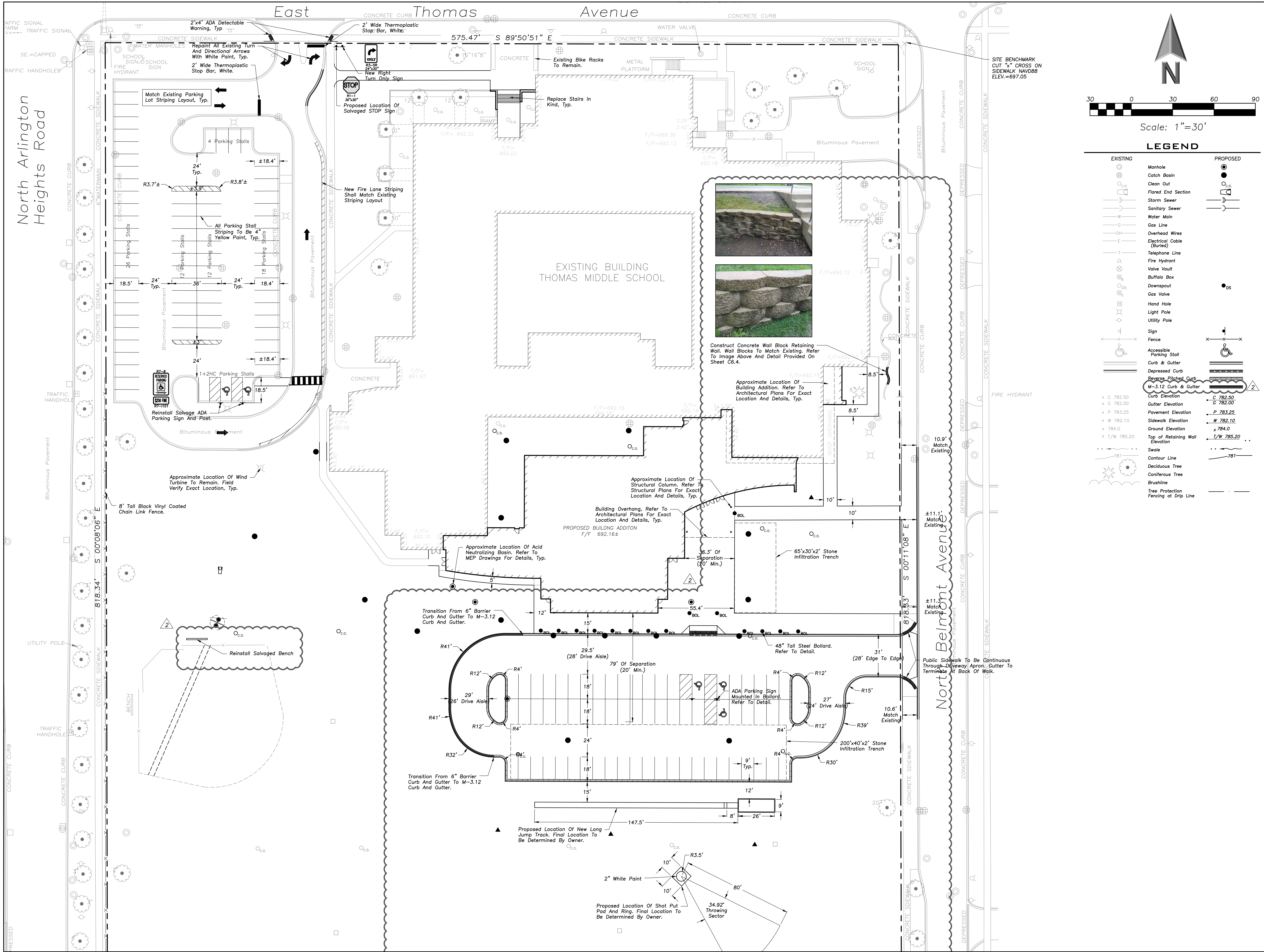
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Sheet Title:

**SITE
DEMOLITION
PLAN**

Sheet No:

C1.1



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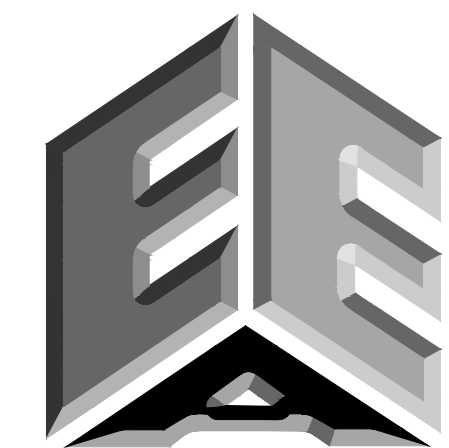
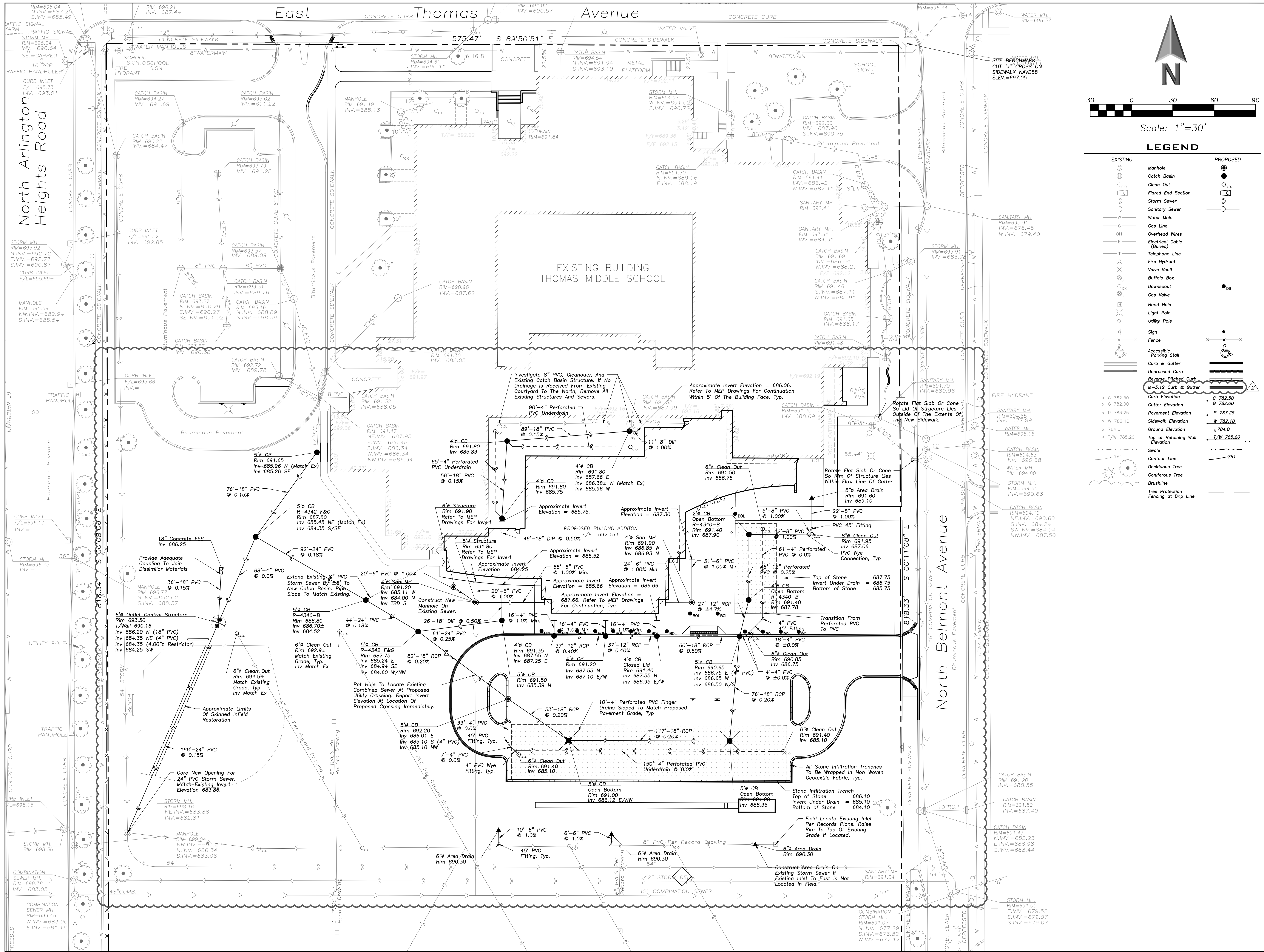
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**PRELIMINARY
SITE GEOMETRY
PLAN**

Sheet No:
C2.1



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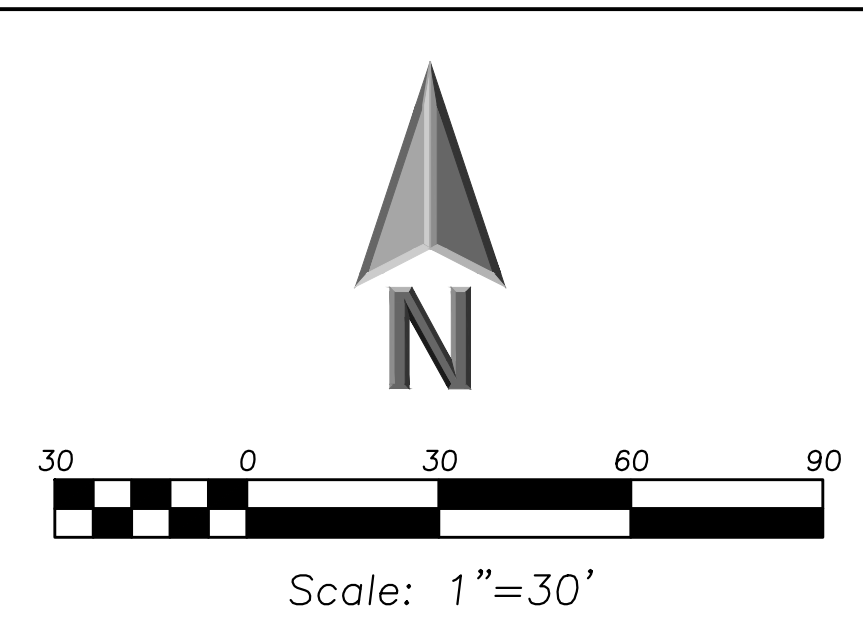
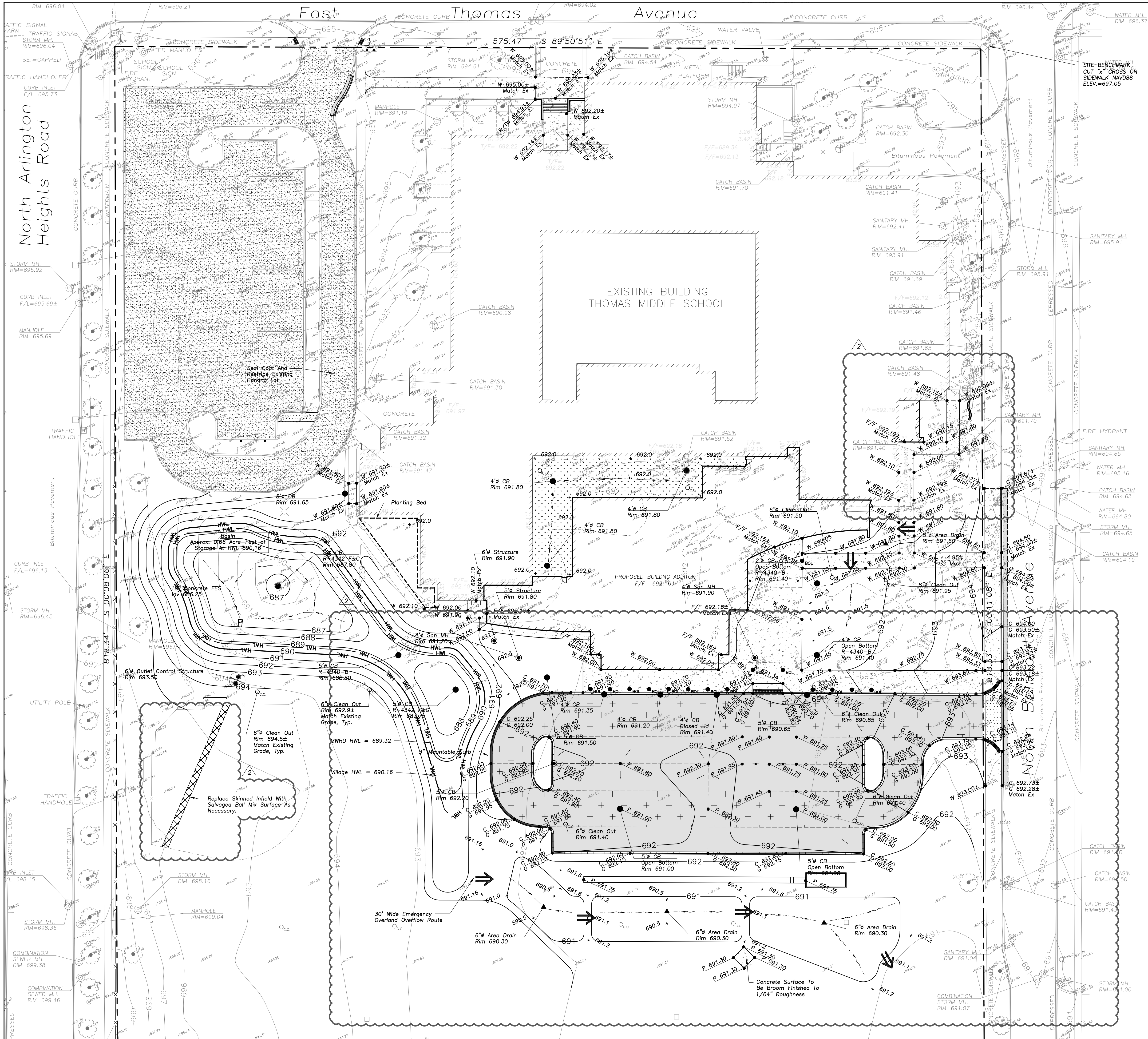
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SITE UTILITY PLAN

Sheet No:
C3.1



LEGEND	
EXISTING	PROPOSED

PAVING & SURFACE LEGEND	
	Asphalt Pavement Section 1 1/2" Hot Mix Asphalt, Mix D, IL-9.5, N50 2 1/2" Hot Mix Asphalt, IL-19.0, N50 Prime Coat (0.25 gal/sq yd) 8" Aggregate Base Course, Type B, Crushed
	Concrete Driveway Section 8" Portland Cement Concrete 6"x6" W2.9xW2.9 Welded Wire Fabric 6" Aggregate Base Course, Type B, Crushed (Omit Welded Wire Fabric in Public ROW)
	Concrete Sidewalk Section 5" Portland Cement Concrete 6"x6" W1.4xW1.4 Welded Wire Fabric 2" Aggregate Base Course, Type B, Crushed (Omit Welded Wire Fabric in Public ROW)
	Heavy-Duty (Fire Lane) Asphalt Pavement Section 2" Hot Mix Asphalt Surface, Mix D, IL-9.5, N50 2 1/4" Hot Mix Asphalt Binder, IL-19.0, N30 5" Hot Mix Asphalt Binder, IL-19.0, N30 Prime Coat (0.25 gal/sq yd) 4" Aggregate Base Course, Type B, Crushed
	Easy Turf Ultra Series or Approved Equal 1 1/2" Synthetic Grass Blades Sand Infill (Installed into Thatch Layer) 1" Vulcan 210 Base Stone 3" Min CA-7 Subgrade To Be Sloped Toward Drainage Structure
	Seal Coat Polymer Modified Clay Stabilized Asphalt Emulsion Pavement Sealer Sealmaster MasterSeals (PMM), or Approved Equal
	Salvaged Skinned Infield 6" Ball Mix
	Stormwater Overland Flow Path

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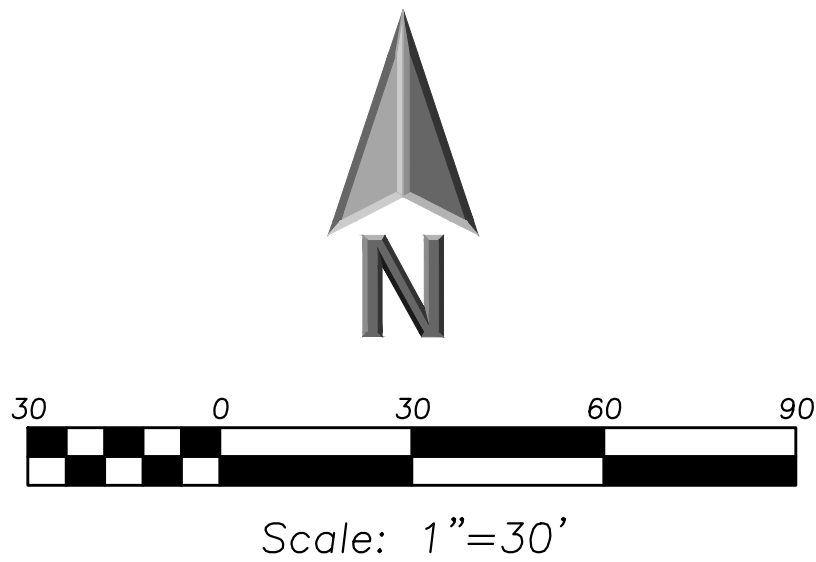
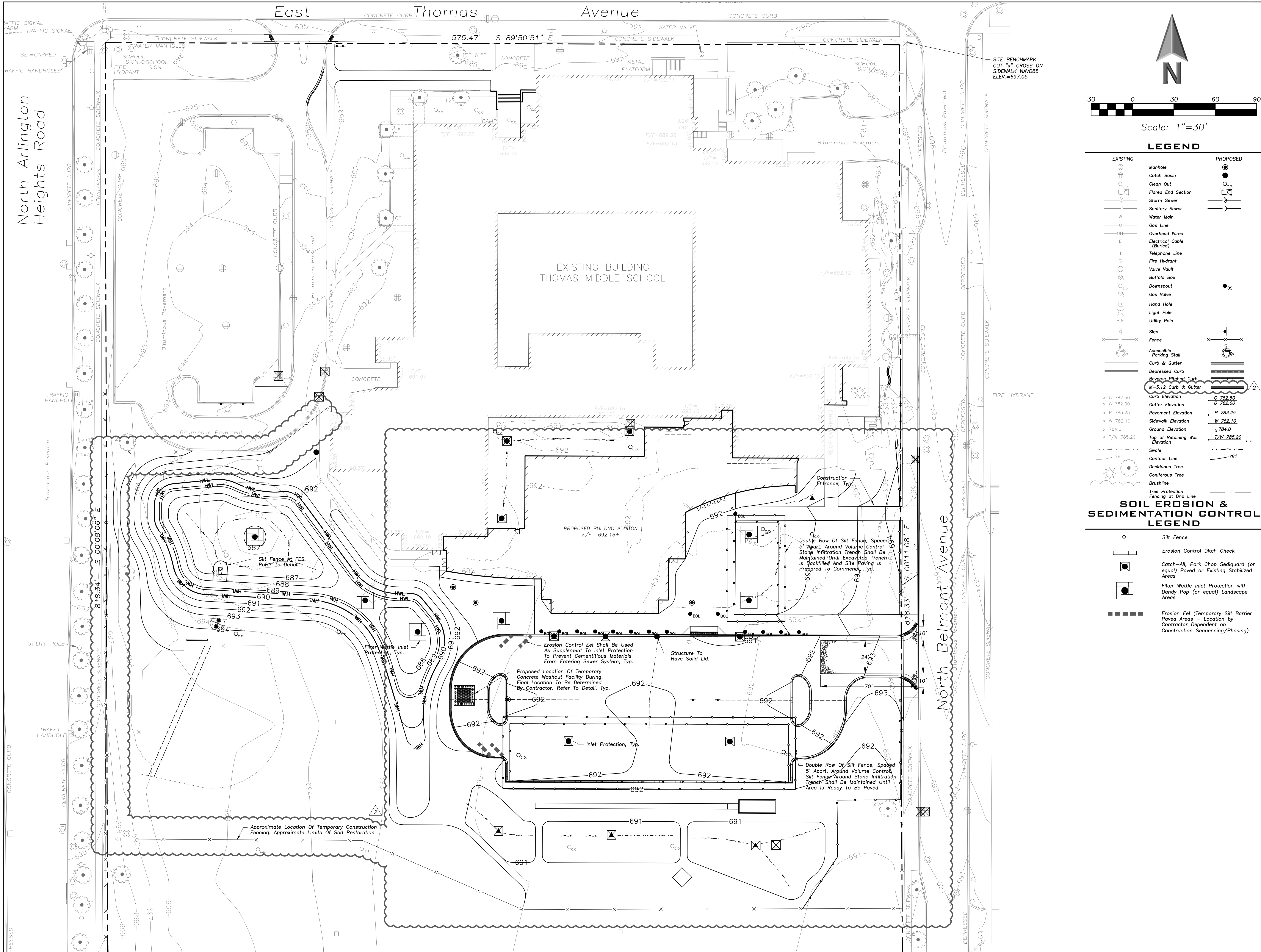
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SHEET TITLE:

GRADING AND
PAVING
PLAN

SHEET NO:

C4.1



LEGEND	
EXISTING	PROPOSED

SOIL EROSION & SEDIMENTATION CONTROL LEGEND	
	Silt Fence
	Erosion Control Ditch Check
	Catch-All, Park Chop Sedguard (or equal) Paved or Existing Stabilized Areas
	Filter Wattle Inlet Protection with Dandy Pop (or equal) Landscape Areas
	Erosion Eel (Temporary Silt Barrier) Paved Areas - Location by Contractor Dependent on Construction Sequencing/Phasing



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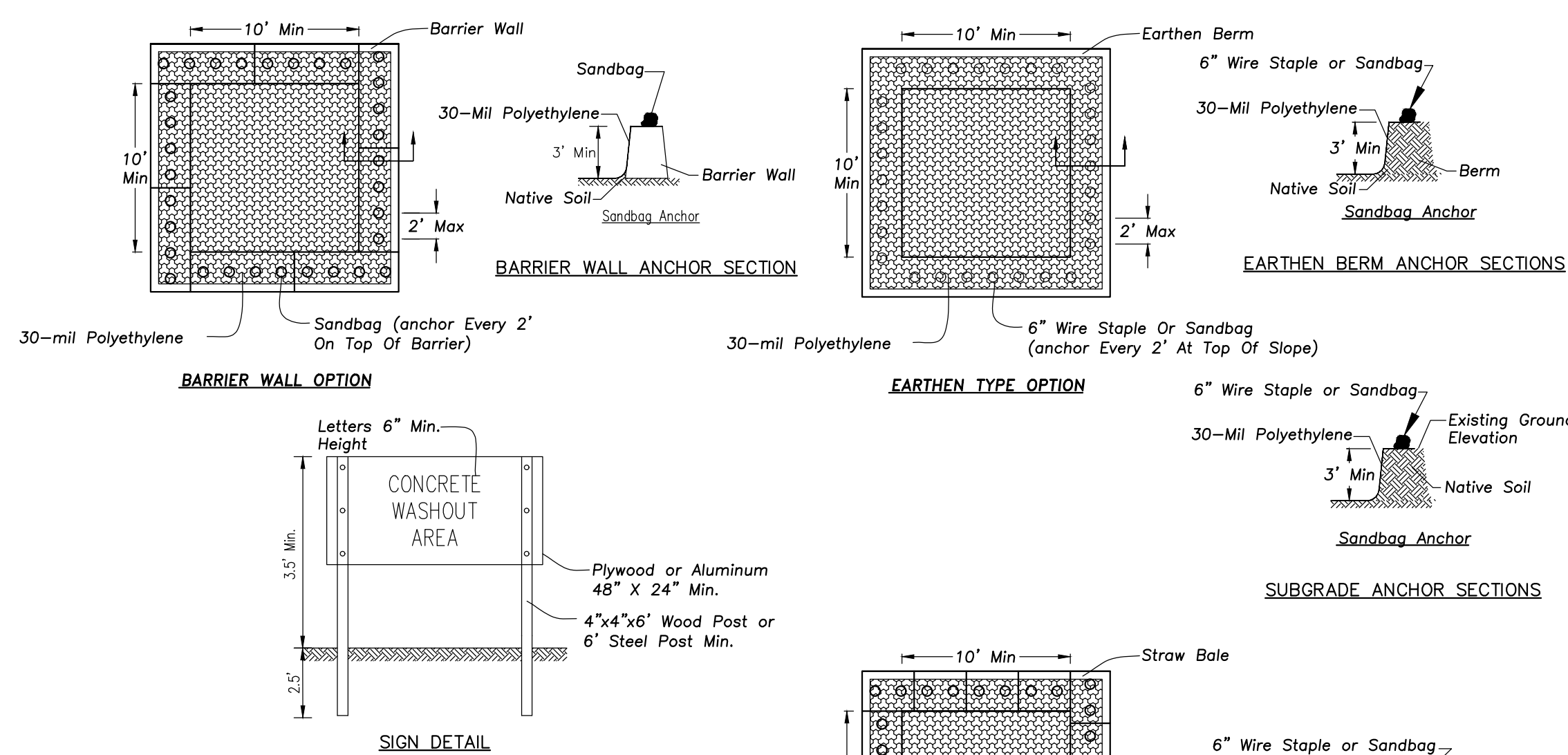
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Sheet Title:
**SOIL EROSION &
SEDIMENT
CONTROL PLAN**

Sheet No:
C5.1



- NOTES:
- Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
 - Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
 - Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

CONCRETE WASHOUT FACILITY

GENERAL NOTES

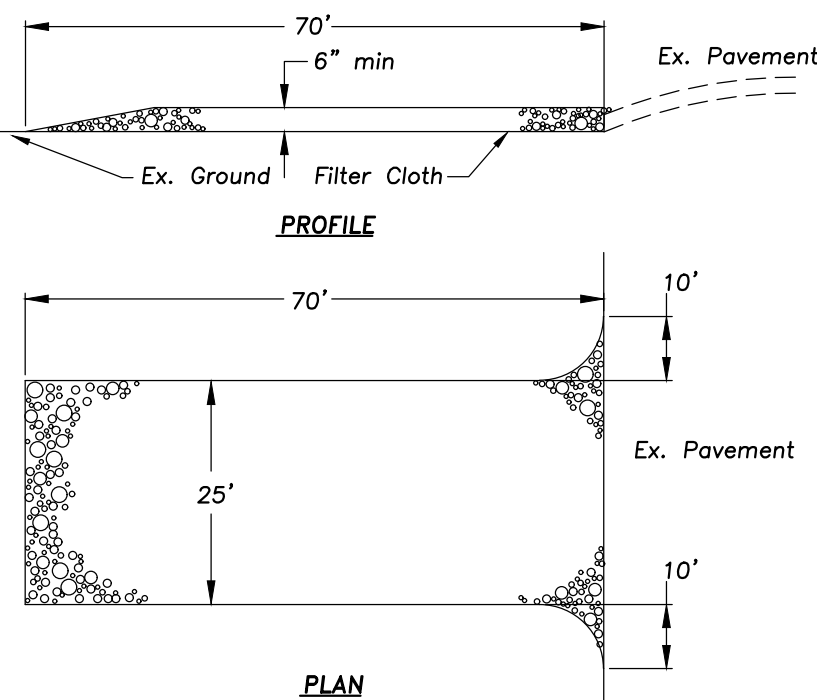
STONE SIZE — Use IDOT gradation CA-1 aggregate stone.

MAINTENANCE — The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or clean-out of any measures used to trap sediment. All sediment spilled, dropped, washed, or tracked onto public rights-of-way must be removed immediately.

FILTER CLOTH — Will be placed over the entire area prior to placing stone. Conform to Illinois Urban Manual Section 592, Type I, II, or IV.

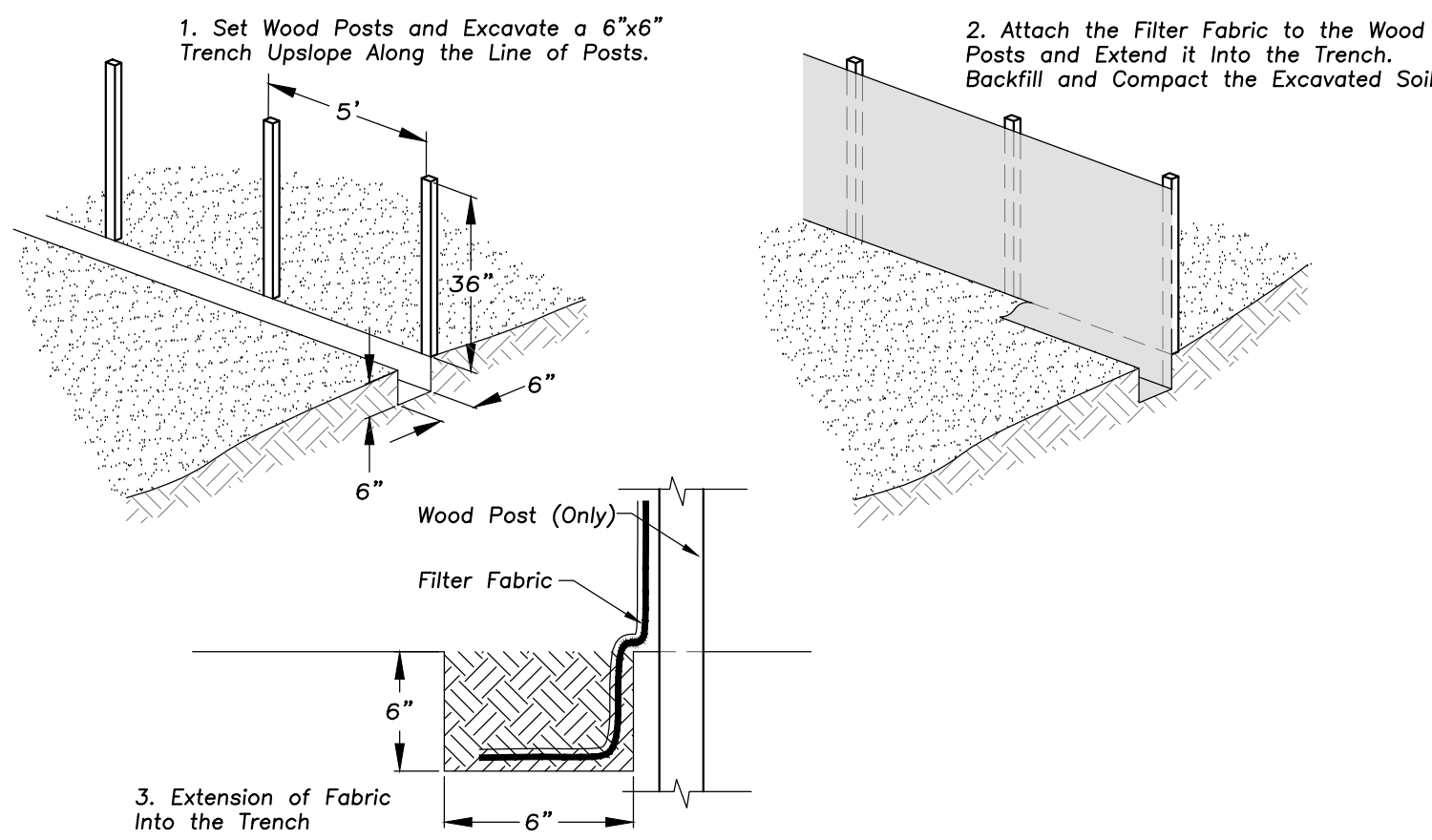
WASHING — Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.

Periodic inspection and needed maintenance shall be provided after each rain.

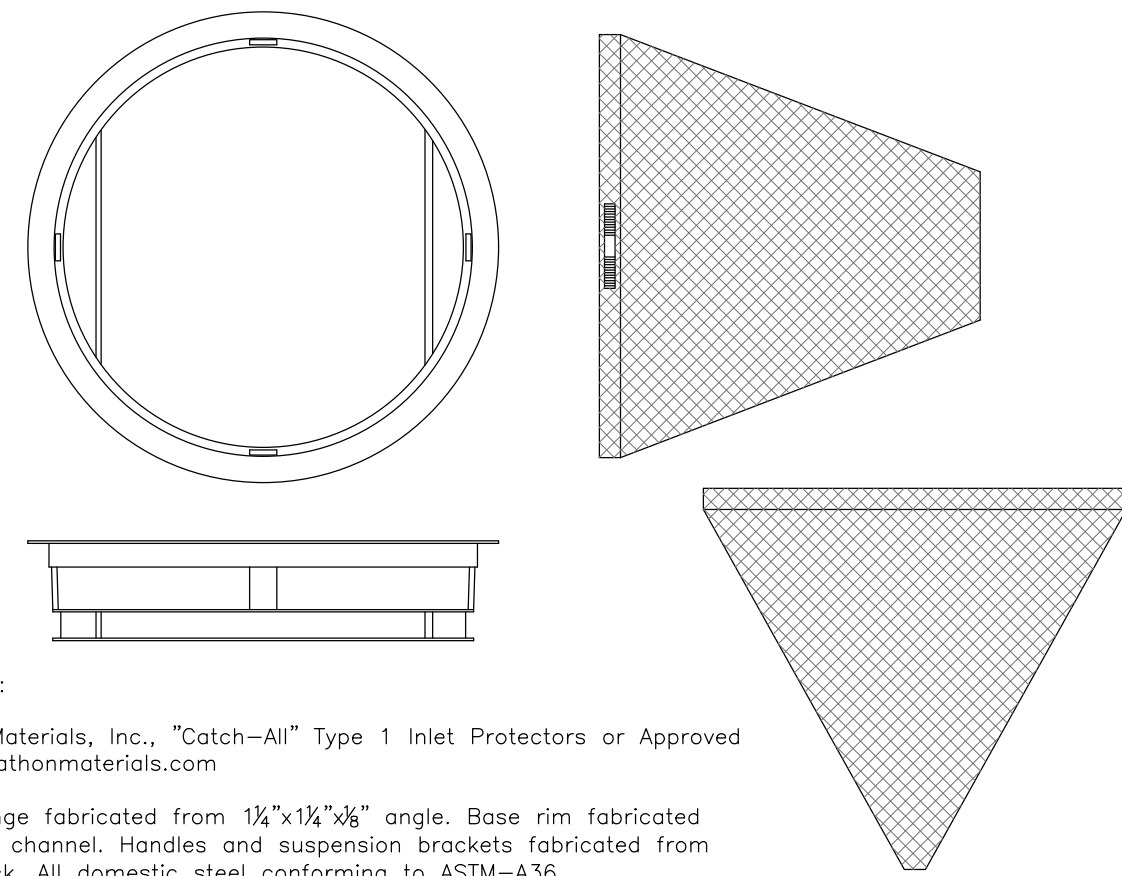


STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



SILT FENCE CONSTRUCTION (AASHTO 288-00)



GENERAL NOTES:

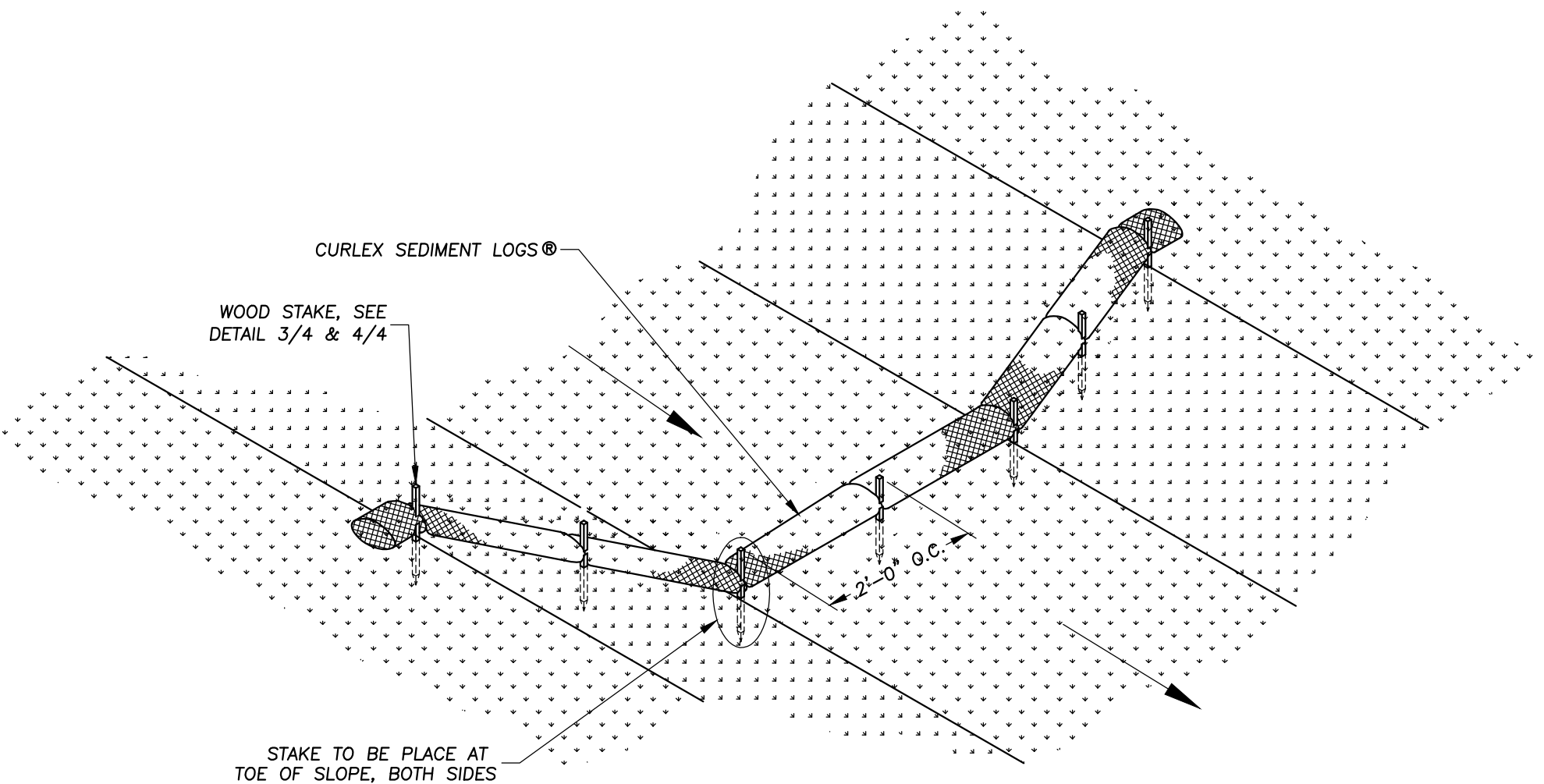
Use Marathon Materials, Inc., "Catch-All" Type 1 Inlet Protectors or Approved Equal. www.marathonmaterials.com

FRAME: Top flange fabricated from 1 1/4"x1 1/4"x3/8" angle. Base rim fabricated from 1 1/2"x5/8"x3/8" channel. Handles and suspension brackets fabricated from 1/4"x3/4" flat stock. All domestic steel conforming to ASTM-A36.

SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel strap and lock.

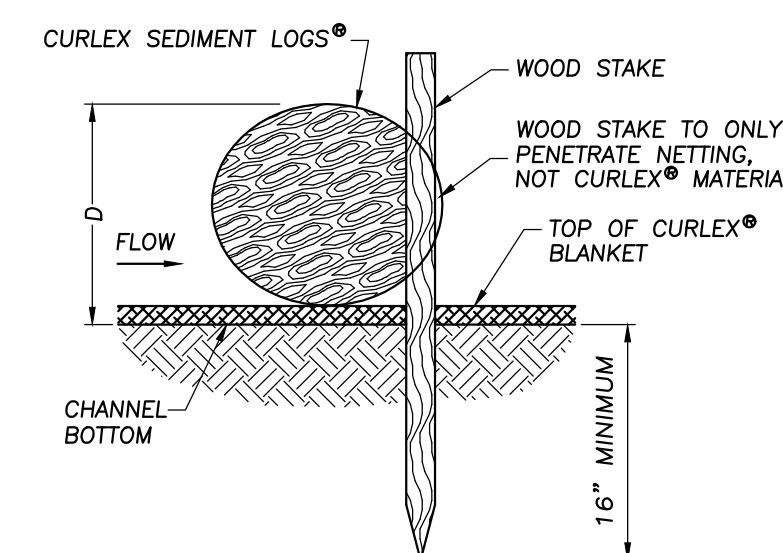
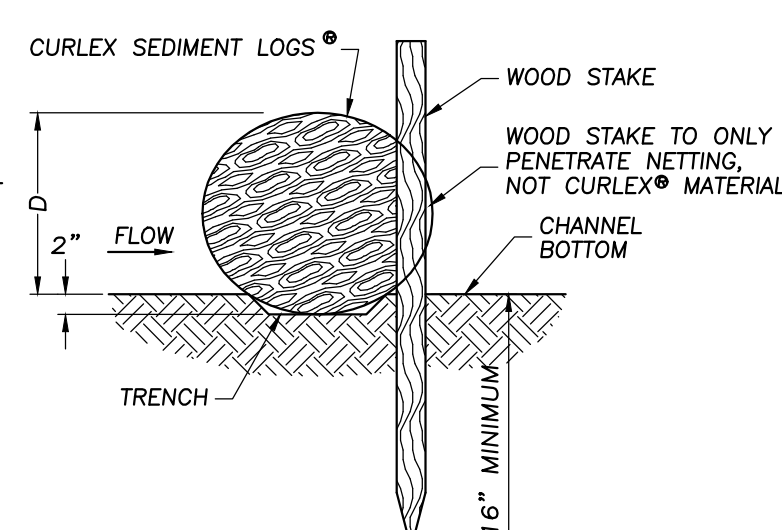
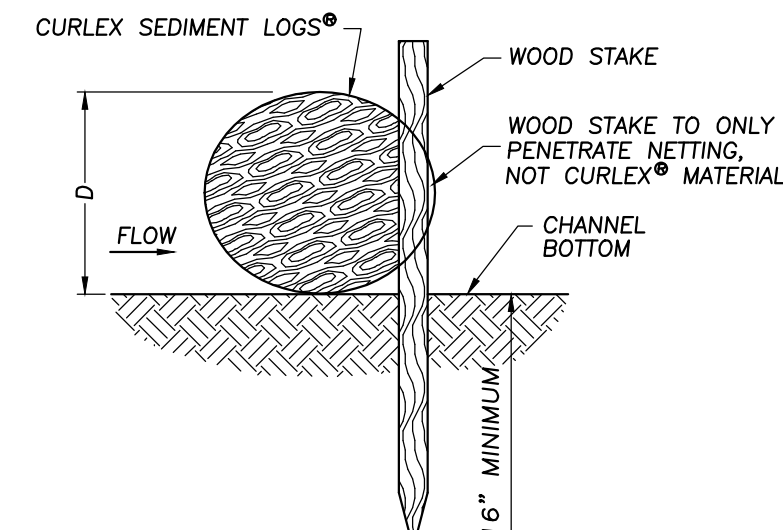
Install baskets in all existing storm inlets prior to construction and all new storm inlets immediately after installation. Contractor shall maintain throughout construction activities.

"CATCH-ALL" INLET PROTECTORS



CURLEX SEDIMENT LOGS® DETAIL (NO BLANKET)

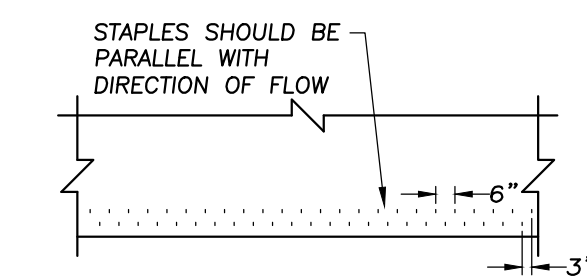
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NOTE: TRENCH OPTION IS MOST APPLICABLE IN LOOSE, UNCONSOLIDATED SOILS.

1 1/2" X 1 1/2" X 30" WOODEN STAKES ARE RECOMMENDED FOR 6", 9", AND 12" SEDIMENT LOGS.

1 1/2" X 1 1/2" X 48" WOODEN STAKES ARE RECOMMENDED FOR 20" SEDIMENT LOGS.



$$\left[\frac{\text{DISTANCE BETWEEN CHANNEL BOTTOM AND TOP OF INSTALLED CURLEX SEDIMENT LOGS} \odot (D)(H)}{\text{CHANNEL GRADIENT } (\%) } \right] \times 100 = \text{CURLEX SEDIMENT LOGS} \odot \text{ SPACING } (ft)$$

RECOMMENDED PLACEMENT INTERVAL BETWEEN CURLEX SEDIMENT LOGS®

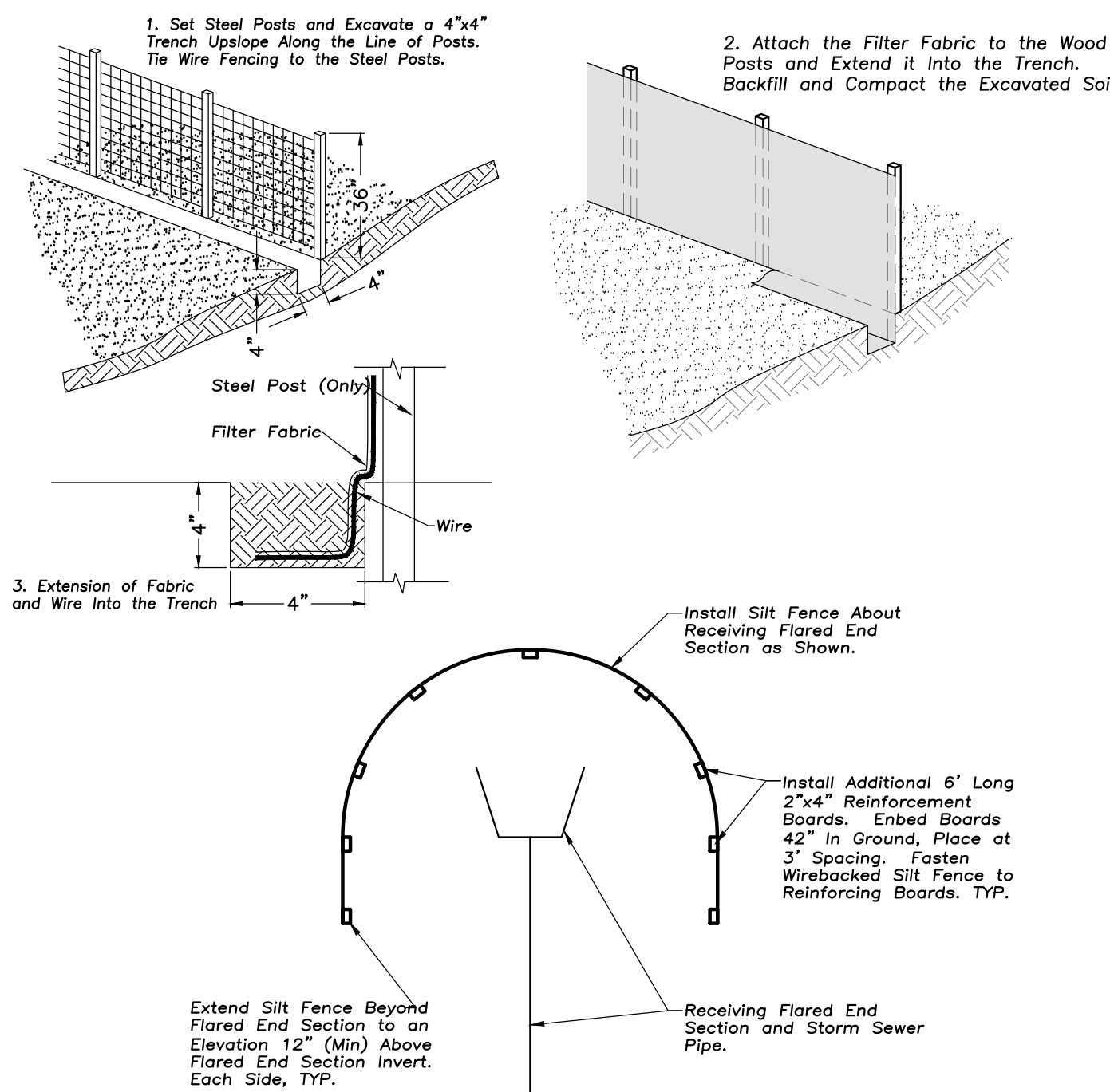
CURLEX SEDIMENT LOGS® DETAIL (WITH BLANKET)

NO SCALE

CURLEX SEDIMENT LOGS® DITCH CHECK

BY: AMERICAN EXCELSIOR COMPANY

SILT FENCE PROTECTION AT FLARED END SECTION



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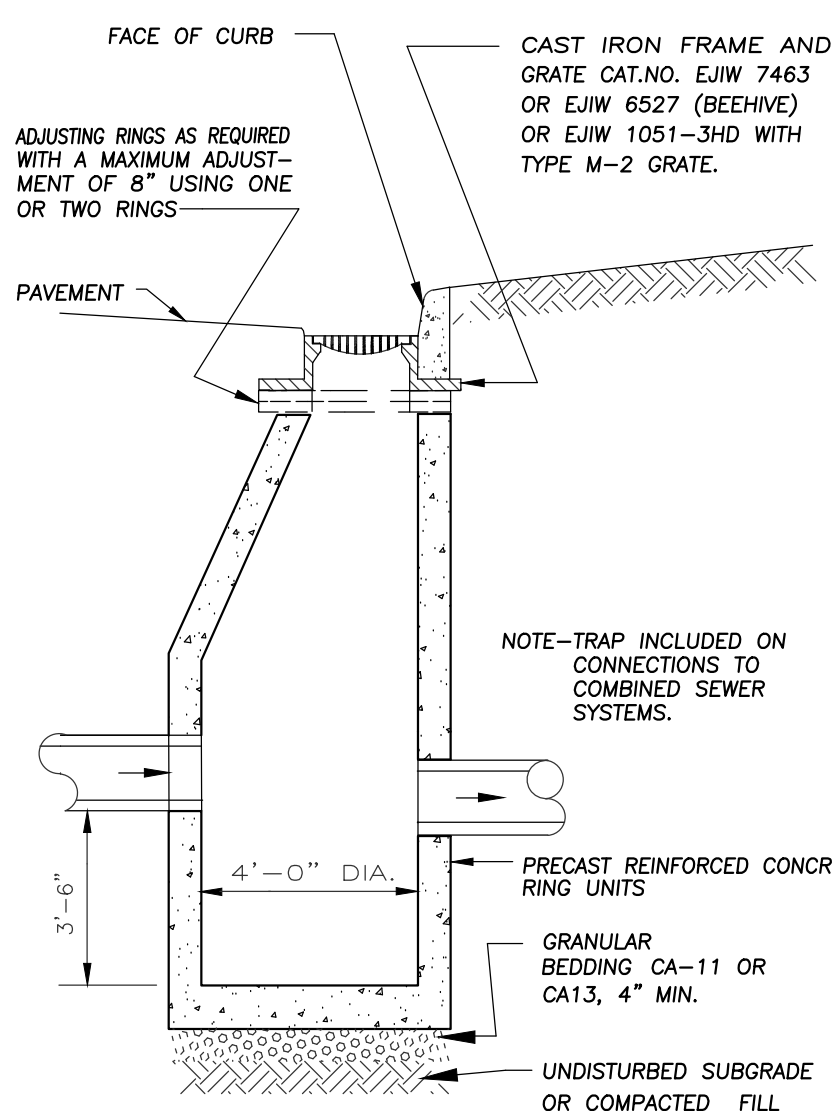
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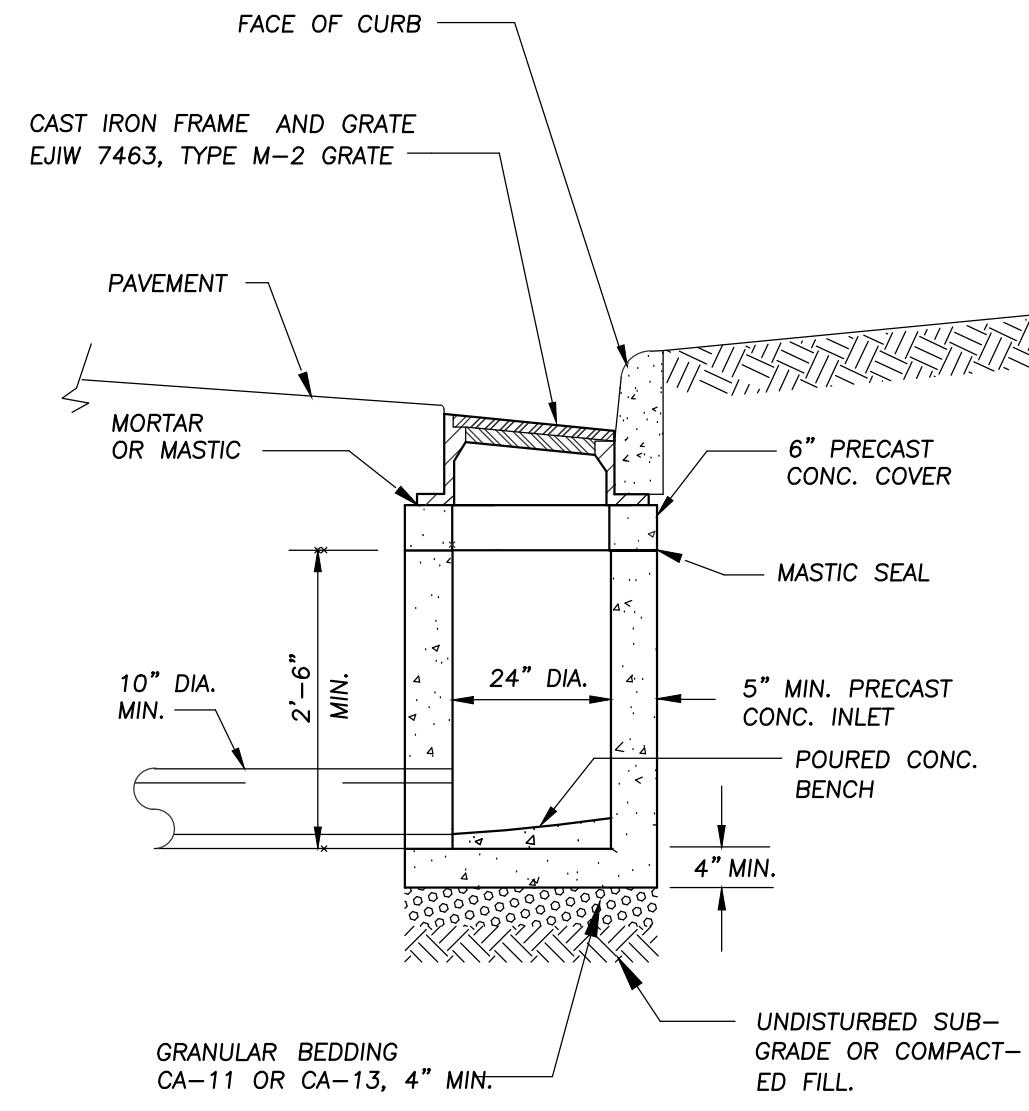
SITE WORK DETAILS

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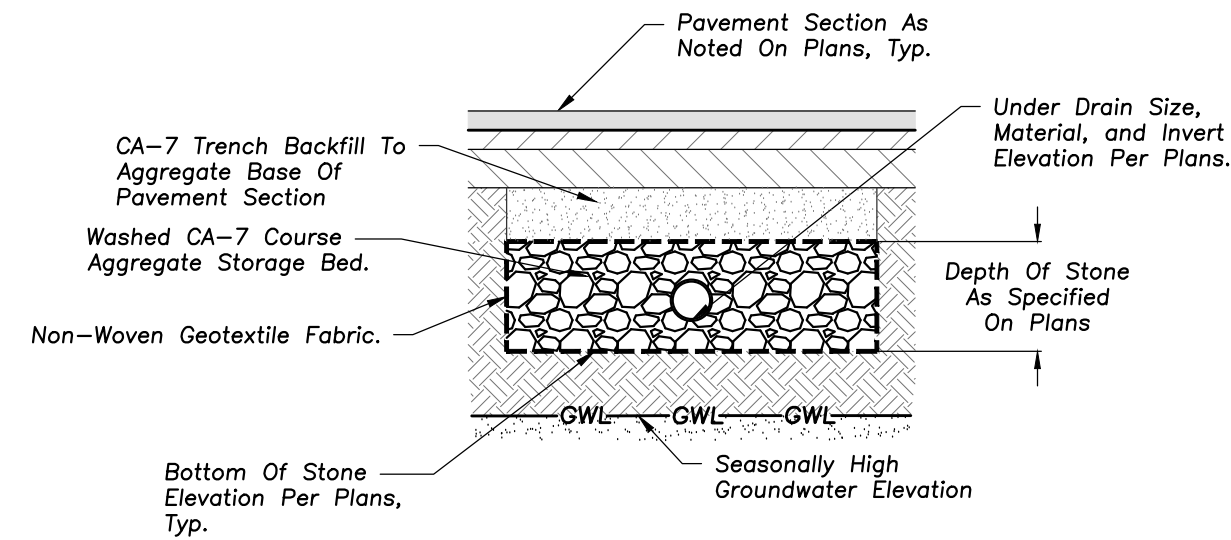
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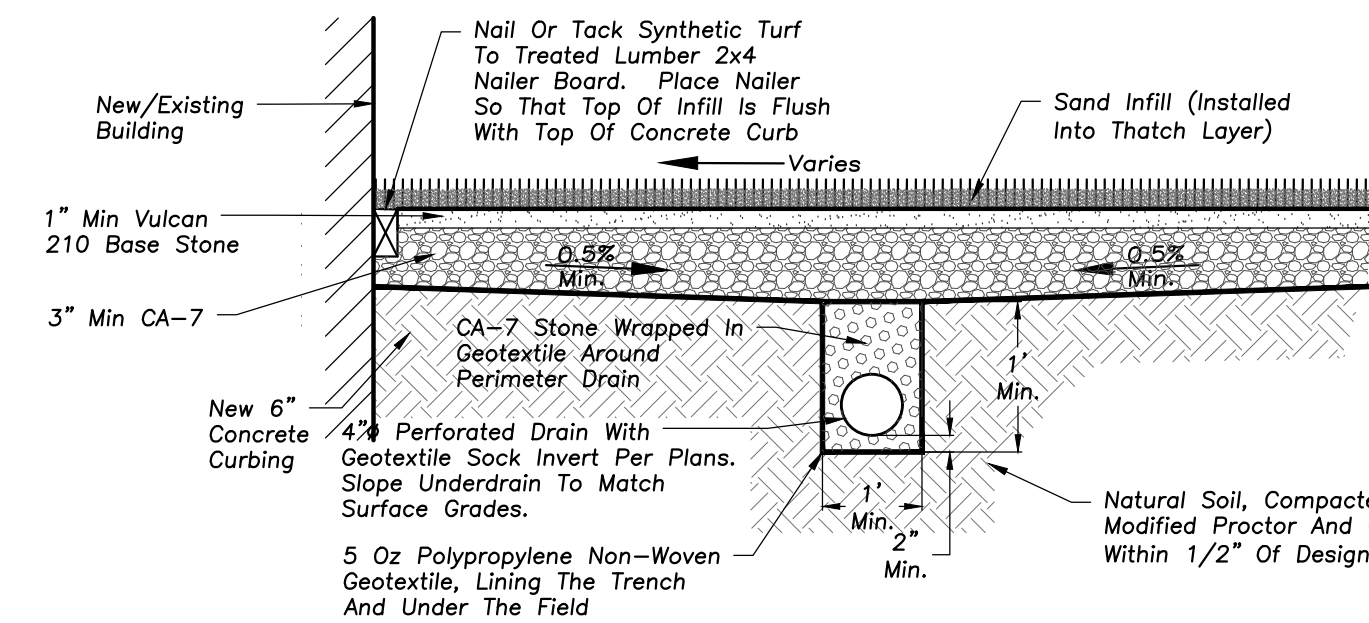
TYPE A - CATCH BASIN



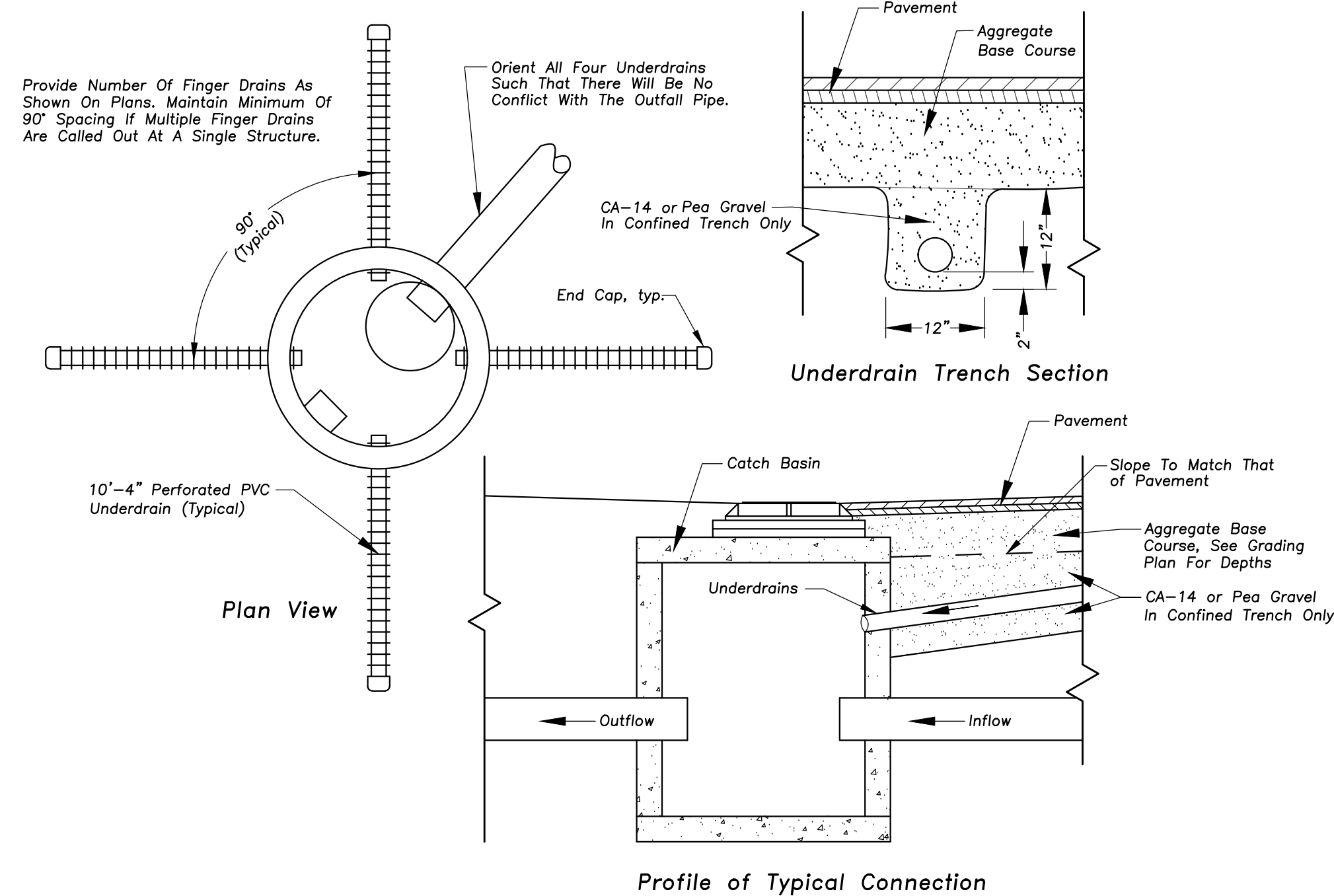
TYPE A - INLET



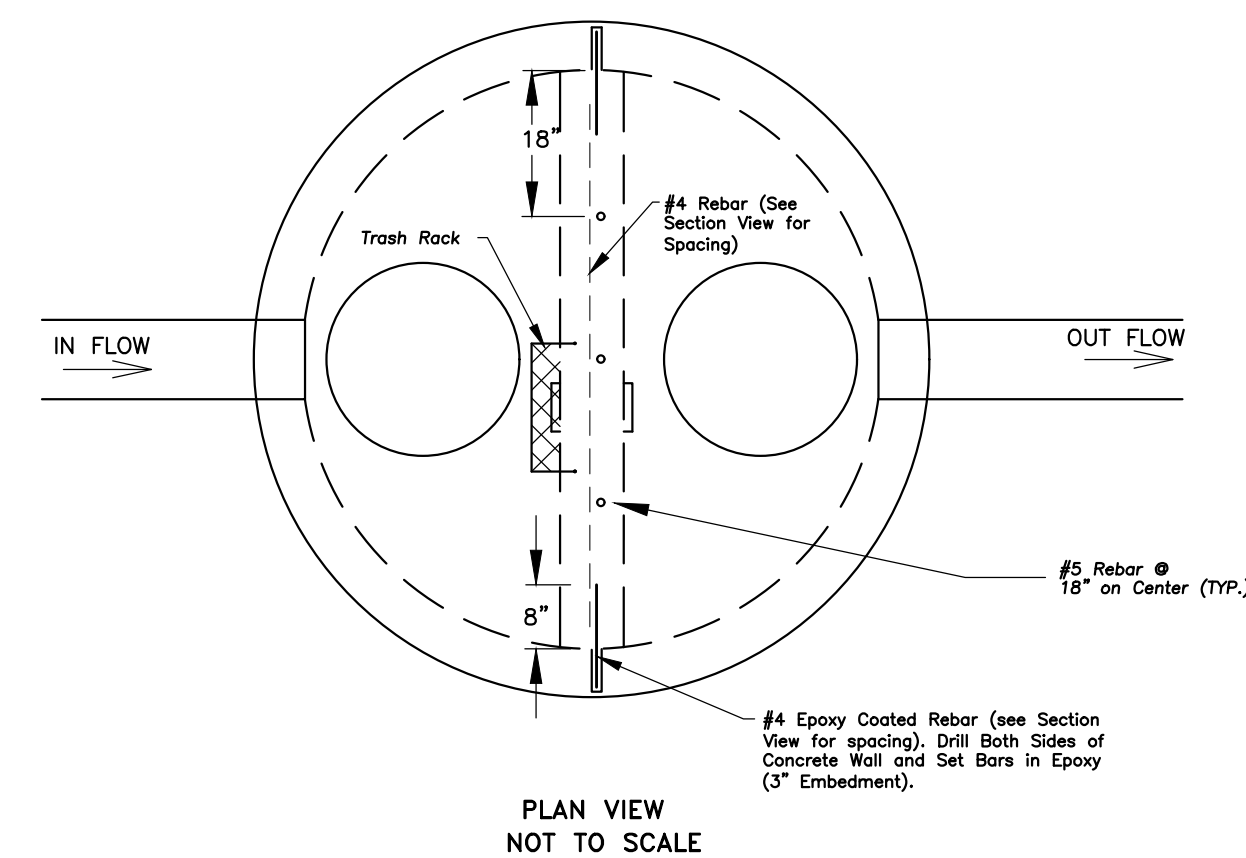
VOLUME CONTROL FACILITY BENEATH PAVEMENT



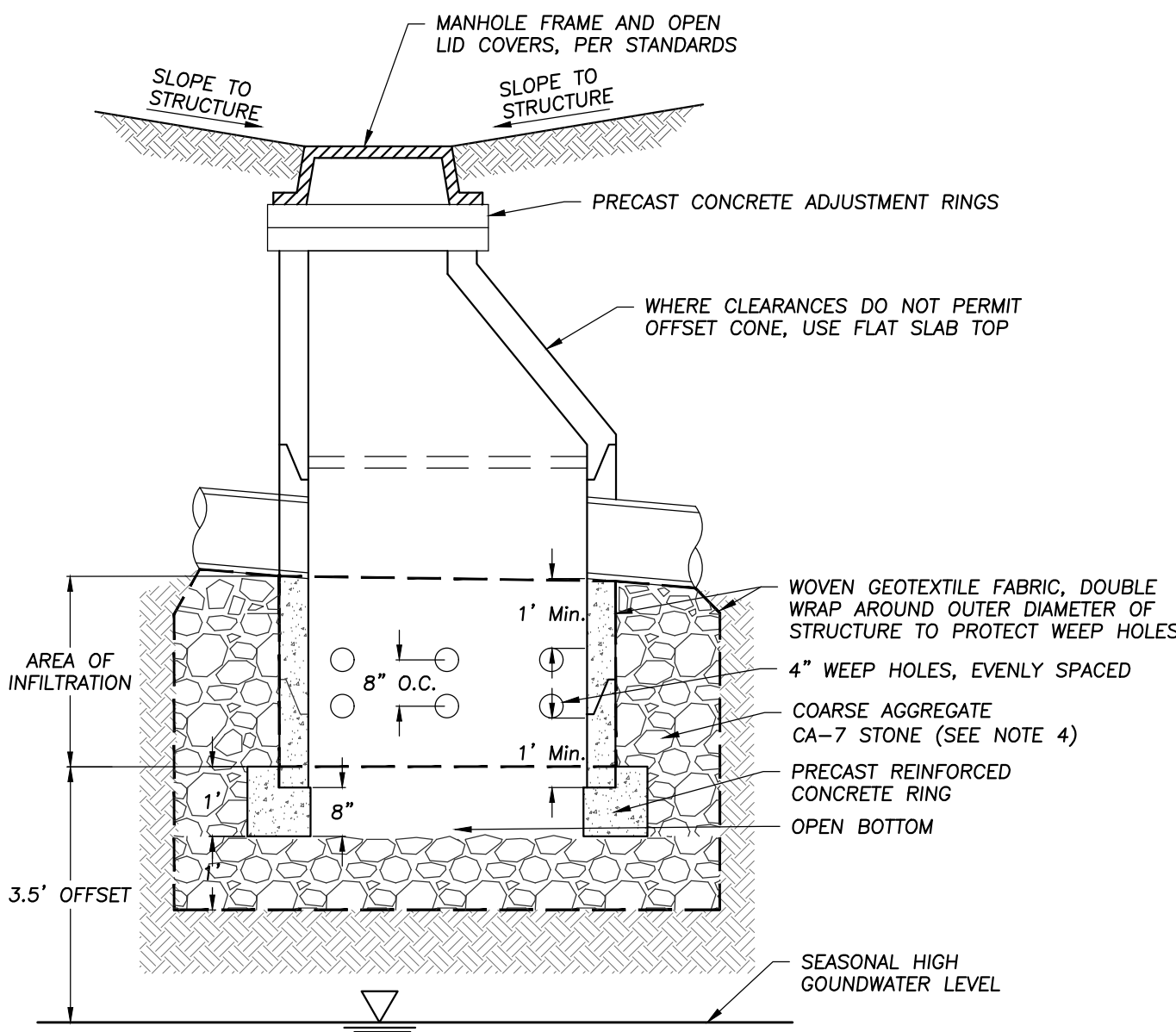
SYNTHETIC TURF UNDERDRAIN DETAIL



CATCH BASIN WITH FINGER DRAINS

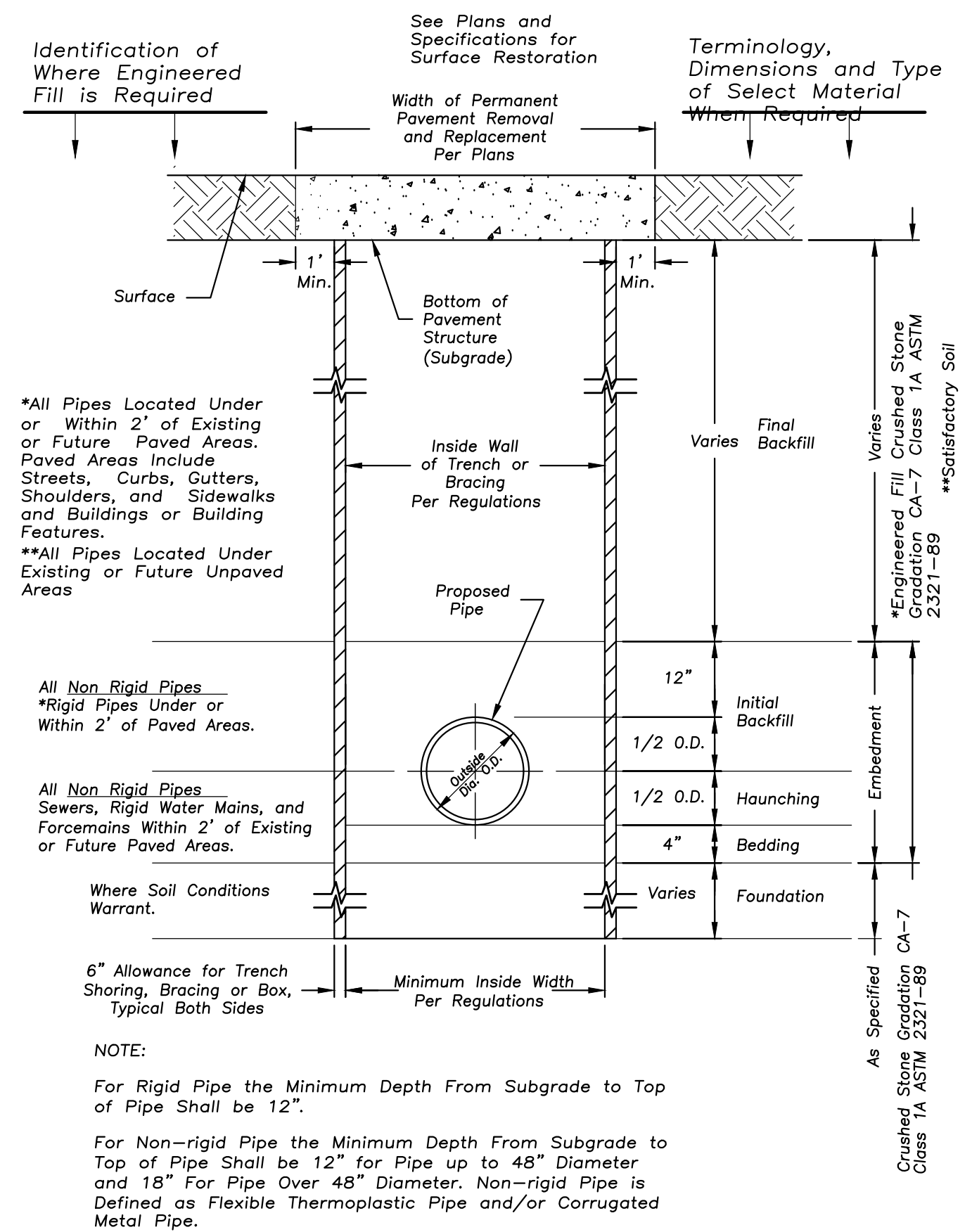


OUTLET CONTROL STRUCTURE



- NOTES:
1. OFFSET A MINIMUM OF 10 FEET FROM FOUNDATIONS UNLESS WATERPROOFED, 20 FEET FROM SANITARY SEWERS, 20 FEET FROM ROADWAY GRAVEL SHOULDER AND 100 FEET FROM POTABLE WATER WELLS OR SEPTIC TANKS.
 2. AVOID INSTALLATION AREAS OF COMPACTED FILL.
 3. WOVEN GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF IUM MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1, CLASS 1, WITH AN APPARENT OPENING SIZE OF 0.50 MM.
 4. STONE STORAGE OPTIONS ARE CA-7, DISTRICT VULCAN MIX, OR APPROVED ALTERNATE. NO RECYCLED MATERIALS.
 5. AGGREGATE BASE OF ONE FOOT (MINIMUM) BELOW PRECAST REINFORCED RING AND SHALL PROVIDE ADEQUATE STRUCTURAL STABILITY PER SOIL CONDITIONS.
 6. MINIMUM DISTANCE OF 2 FEET (3.5 FEET IN COMBINED SEWER AREAS) BETWEEN BOTTOM OF BMP AND SEASONALLY HIGH GROUNDWATER LEVEL.

OPEN BOTTOM CATCH BASIN



STANDARD SEWER AND WATER TRENCH SECTION



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LICENSE NO. 184-003220
EXPIRES: 04/30/2017

THOMAS MIDDLE SCHOOL ADDITION AND RENOVATIONS

1430 N. Belmont Avenue
Arlington Heights, Illinois

Reserved for Seal:

Expiration Date: _____

No.	Date	Description
	09/26/16	Issued For Bid & Permit
2	10/06/16	Addendum 2

DESIGN BY: JC	DATE: 07/25/16
APPROVED BY: KC	PROJECT NO.:

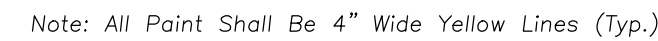
SITE WORK DETAILS

Sheet No:

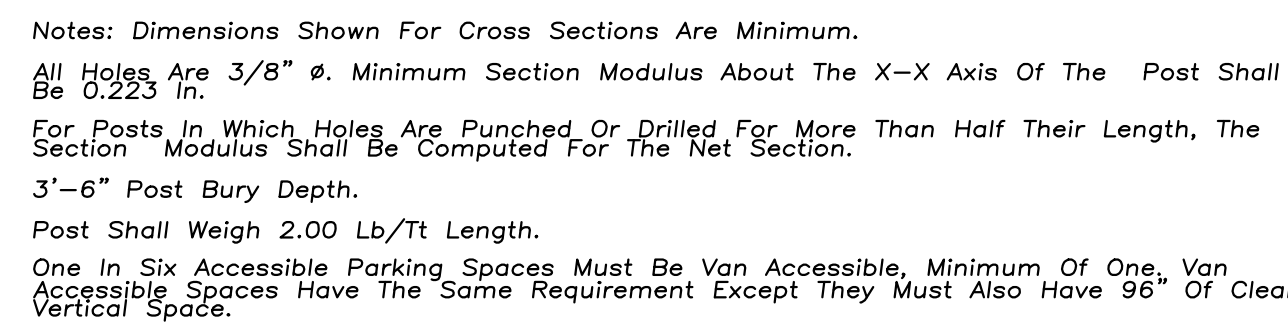
C6.2



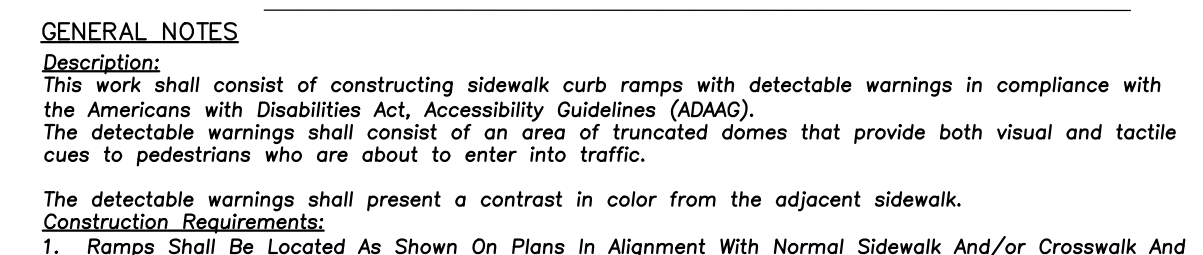
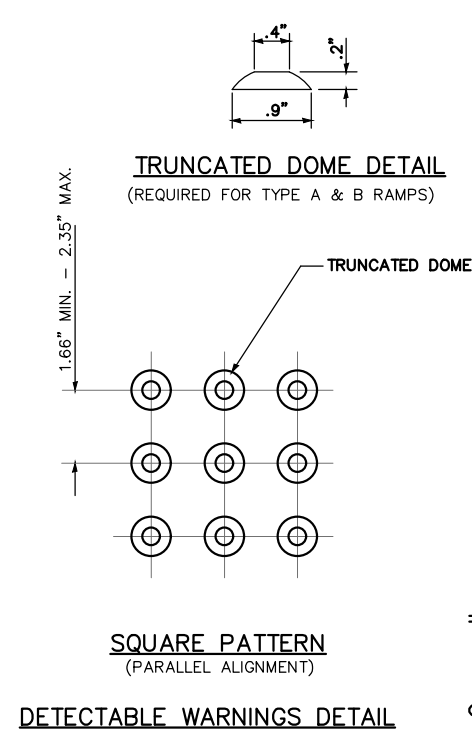
Note "b"
Profile For Depressed Curb
© Driveways And Ramps



ACCESSIBLE PARKING STALL PAVEMENT MARKING



ACCESSIBLE PARKING SIGN IN BOLLARD



Shall Have Sufficient Curb Length At Corner Radius To Prevent Vehicular Encroachment.

2. Curb Ramps At Marked Crossings Shall Be Wholly Contained Within The Markings Excluding Flored Sides.

3. In No Case Shall Expansion Joints That Are Constructed In Curbs And Gutters At Or Near Corner Radiuses Be Located Within The Accessible Ramp Areas.

4. Where Preformed Joint Filler (ρ_{-1}) Is Installed Along A Curved Surface, The Contractor Shall Use A Flexible Filler In Accordance With The Illinois Department Of Transportation (IDOT) Standard Specifications.

Equipment: Equipment for the detectable warning area of the curb ramps shall meet the requirements of the Authorities having Jurisdiction.

DETECTABLE WARNING SURFACE TILES

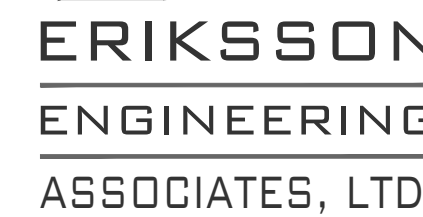
Provide Surface Applied Detectable/Tactile Warning Surface Tiles which conform with the detectable warnings on walking surfaces section of the Americans with Disabilities Act (Title III Regulations, 28 CFR Part 36 ADA STANDARDS FOR ACCESSIBLE DESIGN, Appendix A, Section 4.29.2 Dimensions: Cast In Place Detectable/Tactile Warning Surface Tiles shall be held within the following dimensions and tolerances:

Length and Width in One of the Following as Necessary for the Dimensions of the Surface In Which the Detectable Warning is Proposed: 12x12 24x24 24x36 36x48 36x60 36x66 36x66 nominal. No Cutting of Tiles is Allowed.

Installation of Detectable/Tactile Warning Surface Tiles Per Manufacturer's Instructions.

Verify With The Local Authorities Having Jurisdiction That Detectable/Tactile Warning Surface Tiles are an Acceptable Method of Providing for the Detectable Warning Surface.

Verify With The Local Authorities Having Jurisdiction that the Manufacturer's Products are Acceptable for the Detectable Warning Surface.



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Design By: JC	Date: 07/25/16
Approved By:	Project No.

Sheet Title:

SITE WORK DETAILS

Sheet No:

C6.3



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JC	07/25/16
Approved By:	Project No.
KC	

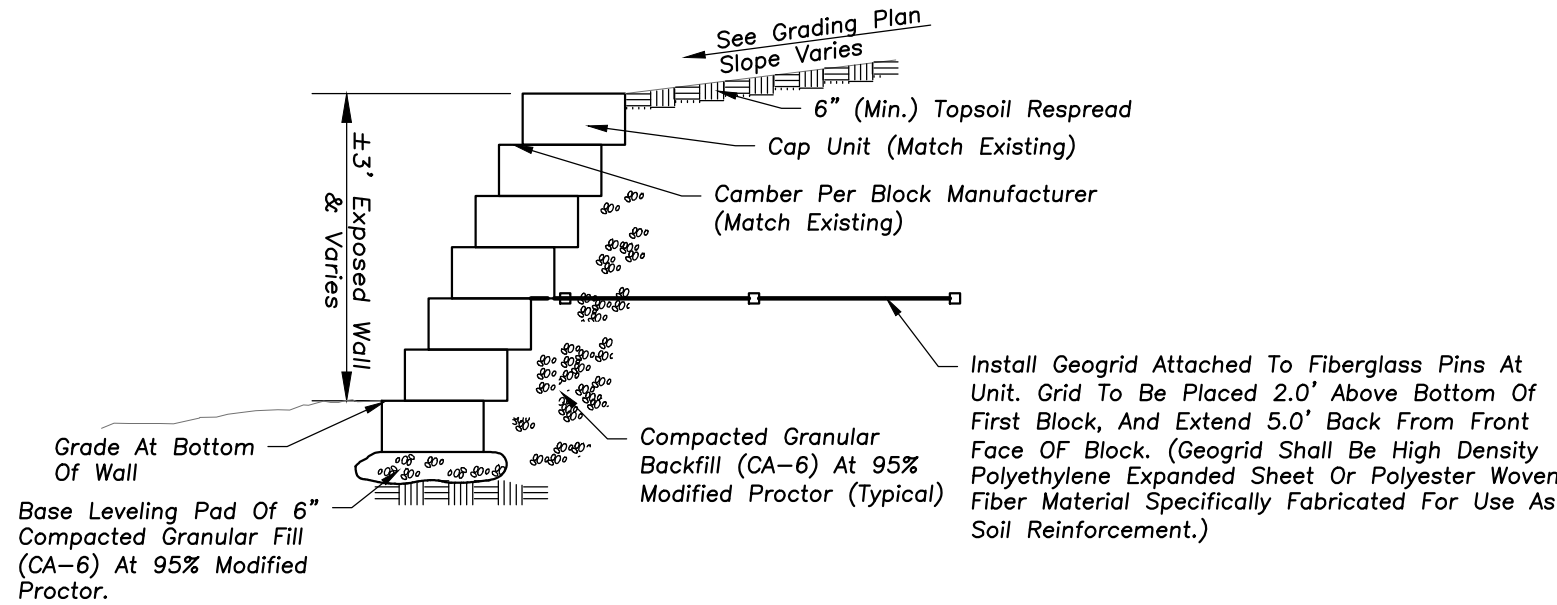
Sheet Title:

SITE WORK
DETAILS

Sheet No:

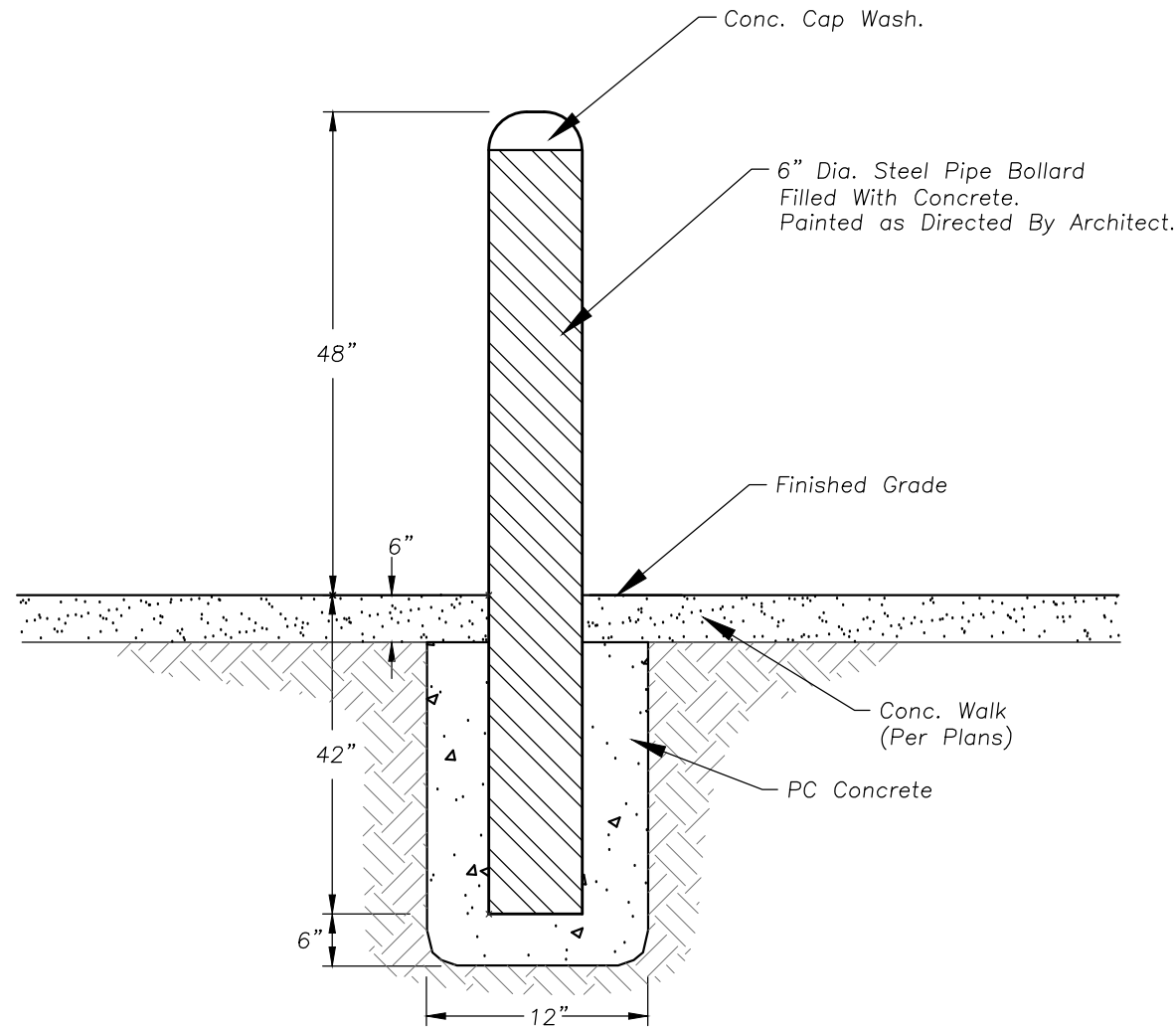
C6.4

Note:
Retaining Wall Detail Is Conceptual And Schematic Only. The
Contractor Must Submit Information On The Product Chosen
(I.E. Keystone Retaining Wall Systems, Anchor Wall Systems
Or Equivalent). Prior To Construction, This Information Shall
Be Submitted To The Owner And Engineer For Review. This
Review Does Not Relieve The Contractor And Manufacturer Of
Responsibility For The Wall. The Contractor Shall Adhere
Strictly To The Manufacturer's Specifications And Design
Requirements During Construction.

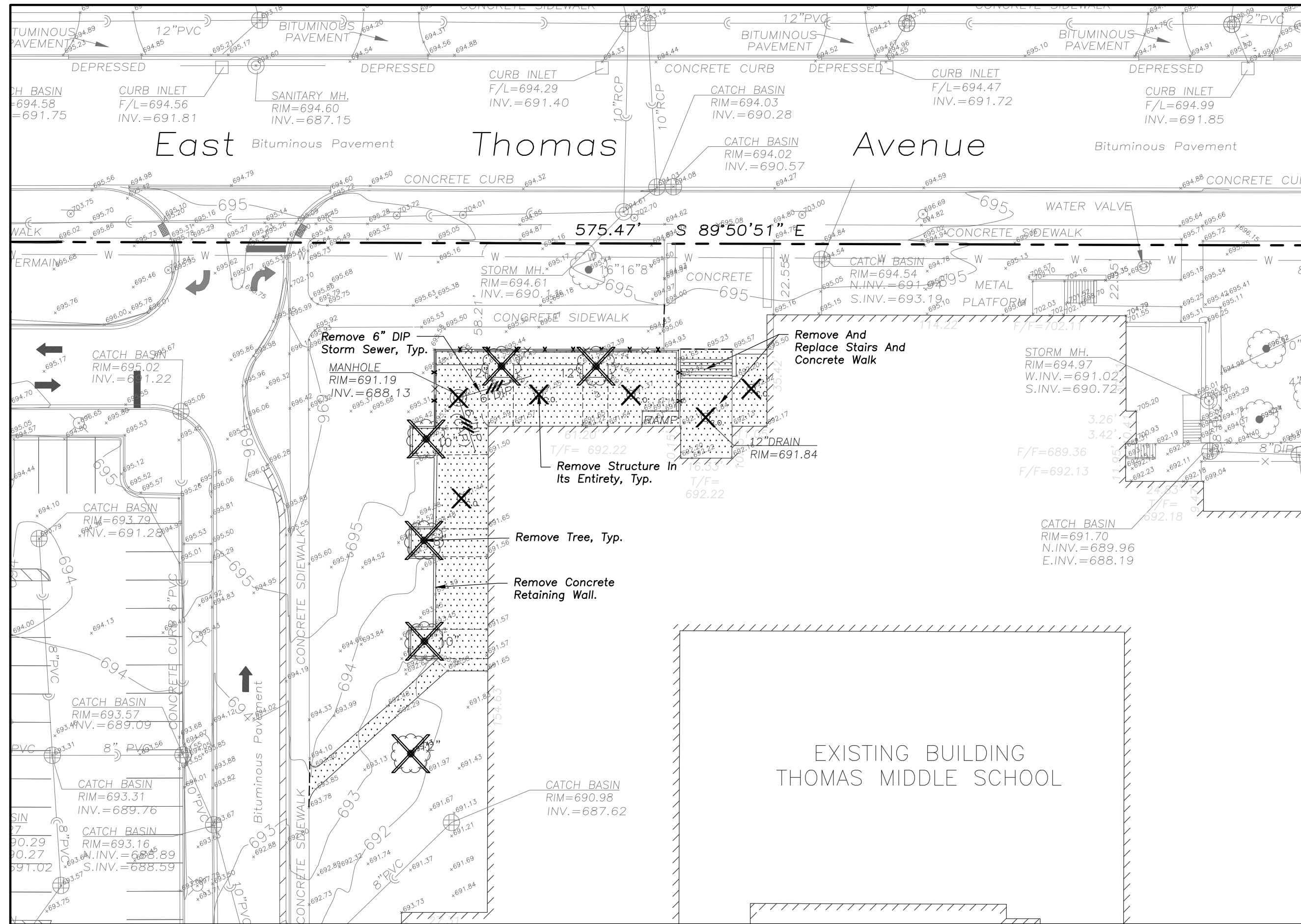


Note: Wall To Be Set With Bottom
Of First Block 8" Below Grade At
Face Of Wall.

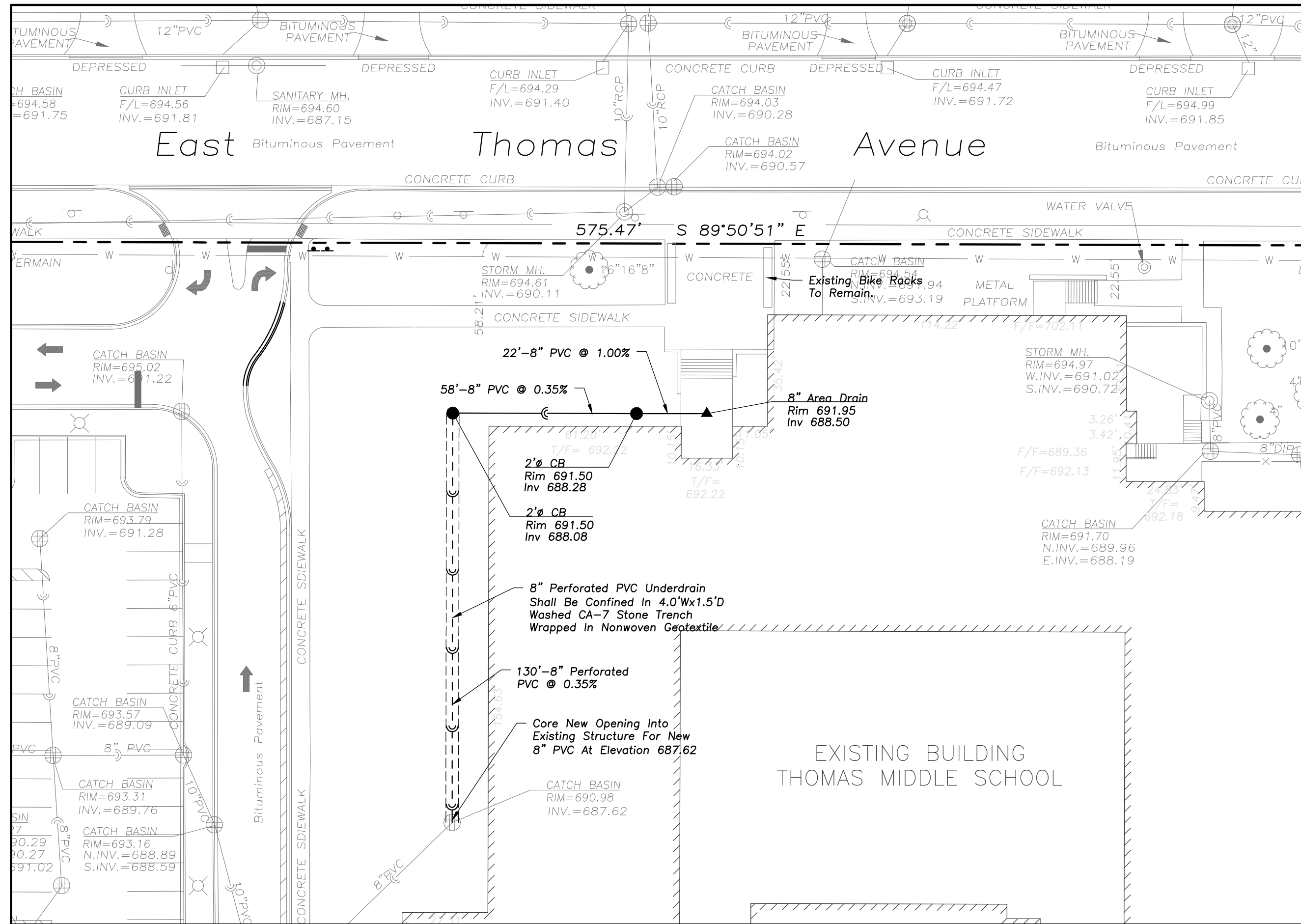
Concrete Wall Block Retaining Wall



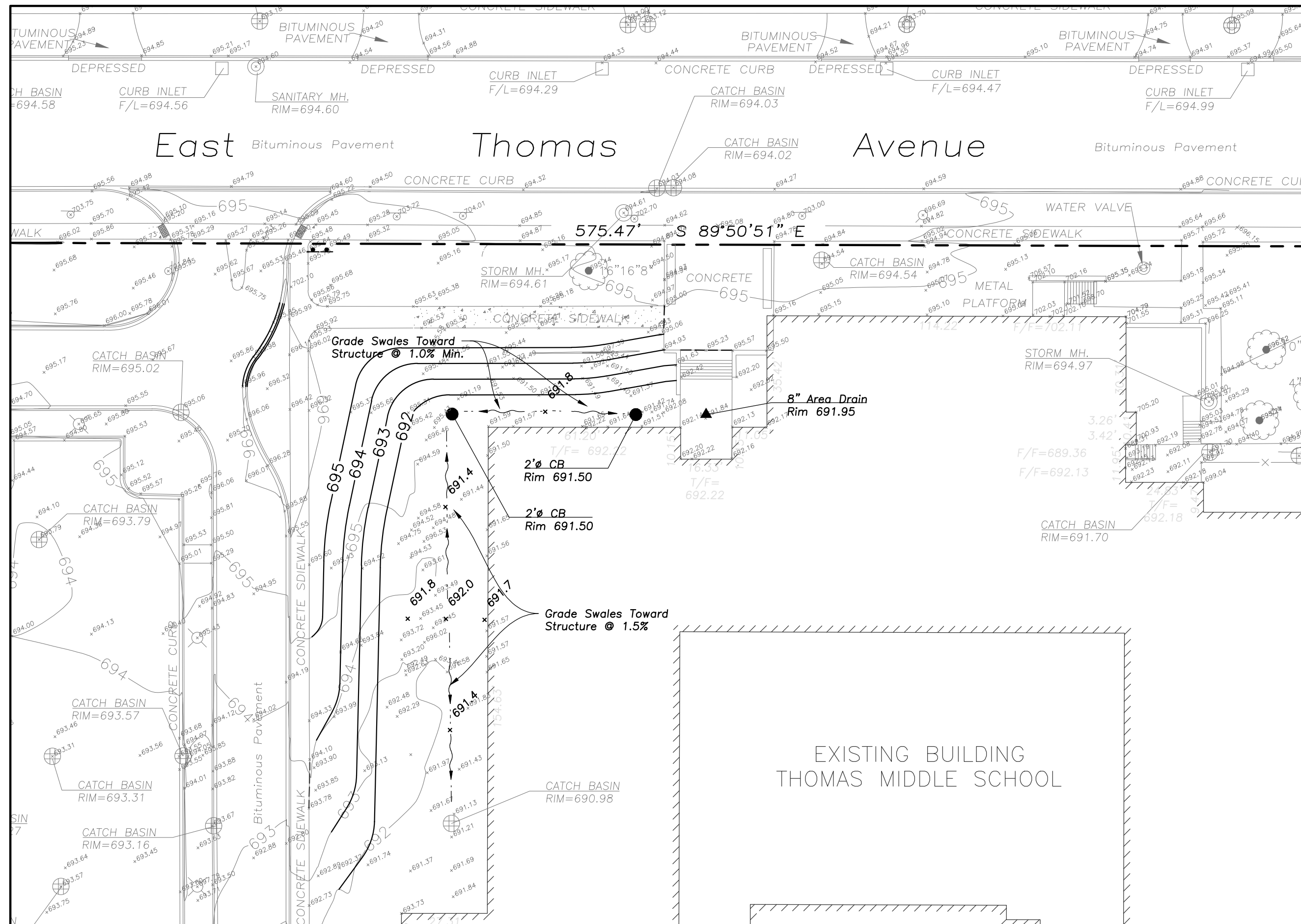
BOLLARD DETAIL



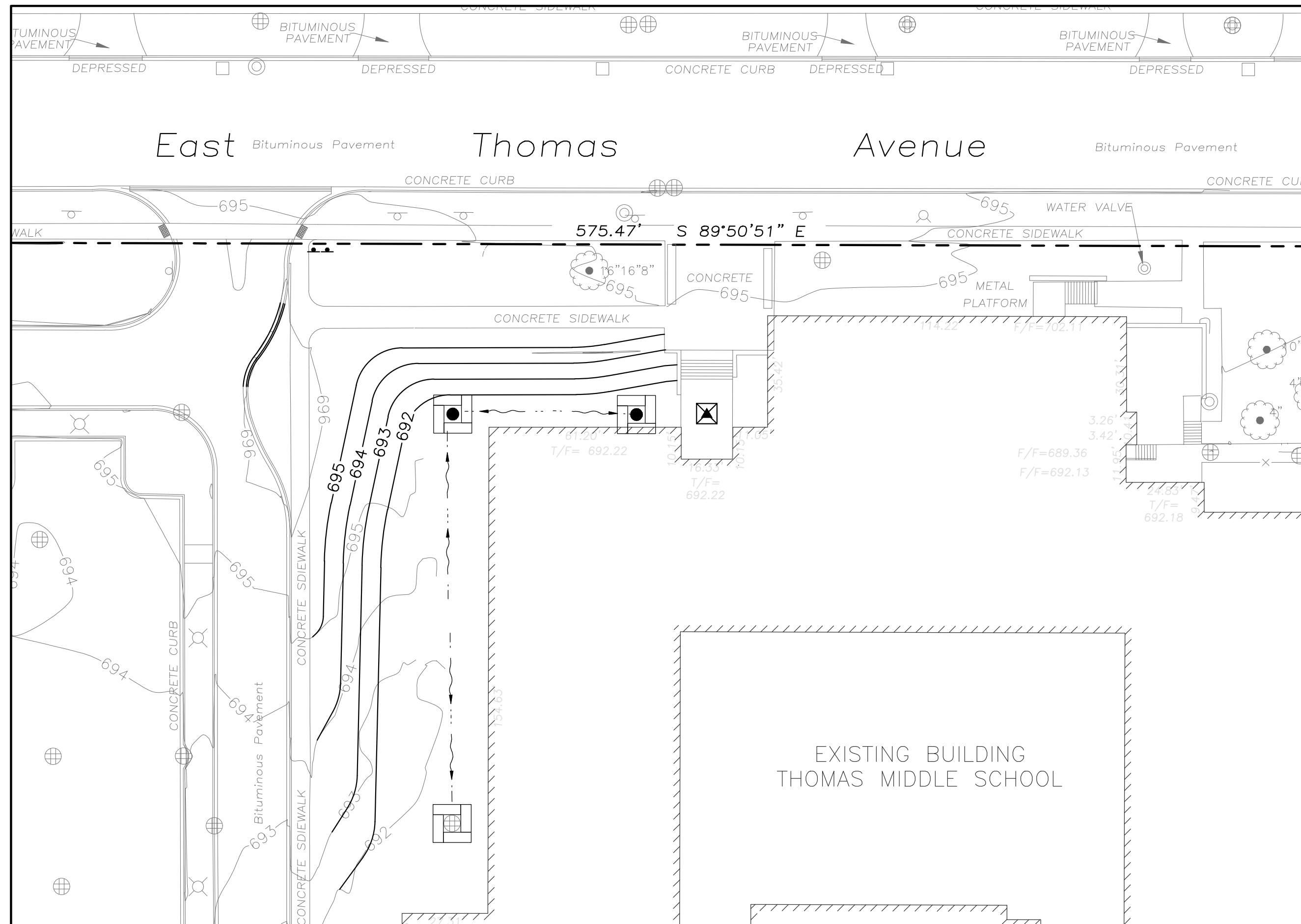
ALTERNATE-DEMOLITION PLAN



ALTERNATE-GEOMETRY AND UTILITY PLAN



ALTERNATE-GRADING AND PAVING PLAN



ALTERNATE-EROSION CONTROL PLAN



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DESIGN BY: JC		DATE: 07/25/16	
APPROVED BY: KC		PROJECT NO.:	

SHEET TITLE:
**ALTERNATE 2 -
REMOVAL OF RETAINING
WALL AND ASSOCIATED
SITE WORK**

SHEET NO.:

C7.1