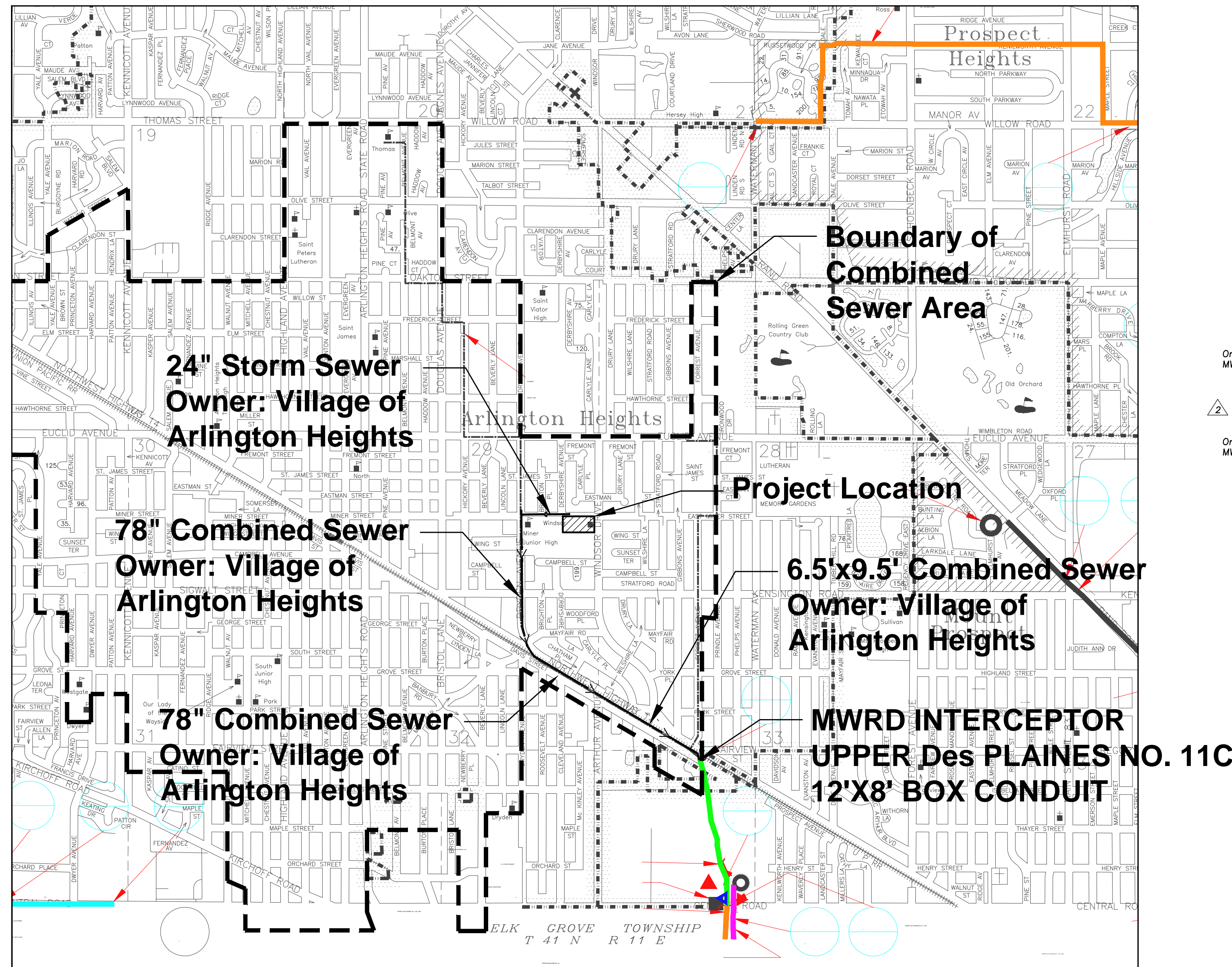
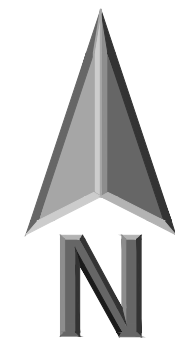


WINDSOR ELEMENTARY SCHOOL ADDITION AND RENOVATIONS

1315 E. Miner St. Arlington Heights, IL 60004



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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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EXPIRES: 04/30/2017

**WINDSOR ELEMENTARY SCHOOL
ADDITION AND RENOVATIONS**
1315 E. Miner Street
Arlington Heights, Illinois

Reserved for Seal:

Expiration Date: _____

No.	Date	Description
1	12/14/16	ISSUE FOR BID & PERMIT
2	01/05/17	ADDENDUM 2
3	01/24/17	REVISED PARKING LOT LAYOUT
4	01/27/17	ISSUED FOR CONSTRUCTION

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Design By:	JC	Date:	12/14/16
Approved By:	KC	Project No.:	

Sheet Title:

COVER SHEET

Sheet No.:

C0.0

SURVEY PROVIDED BY:

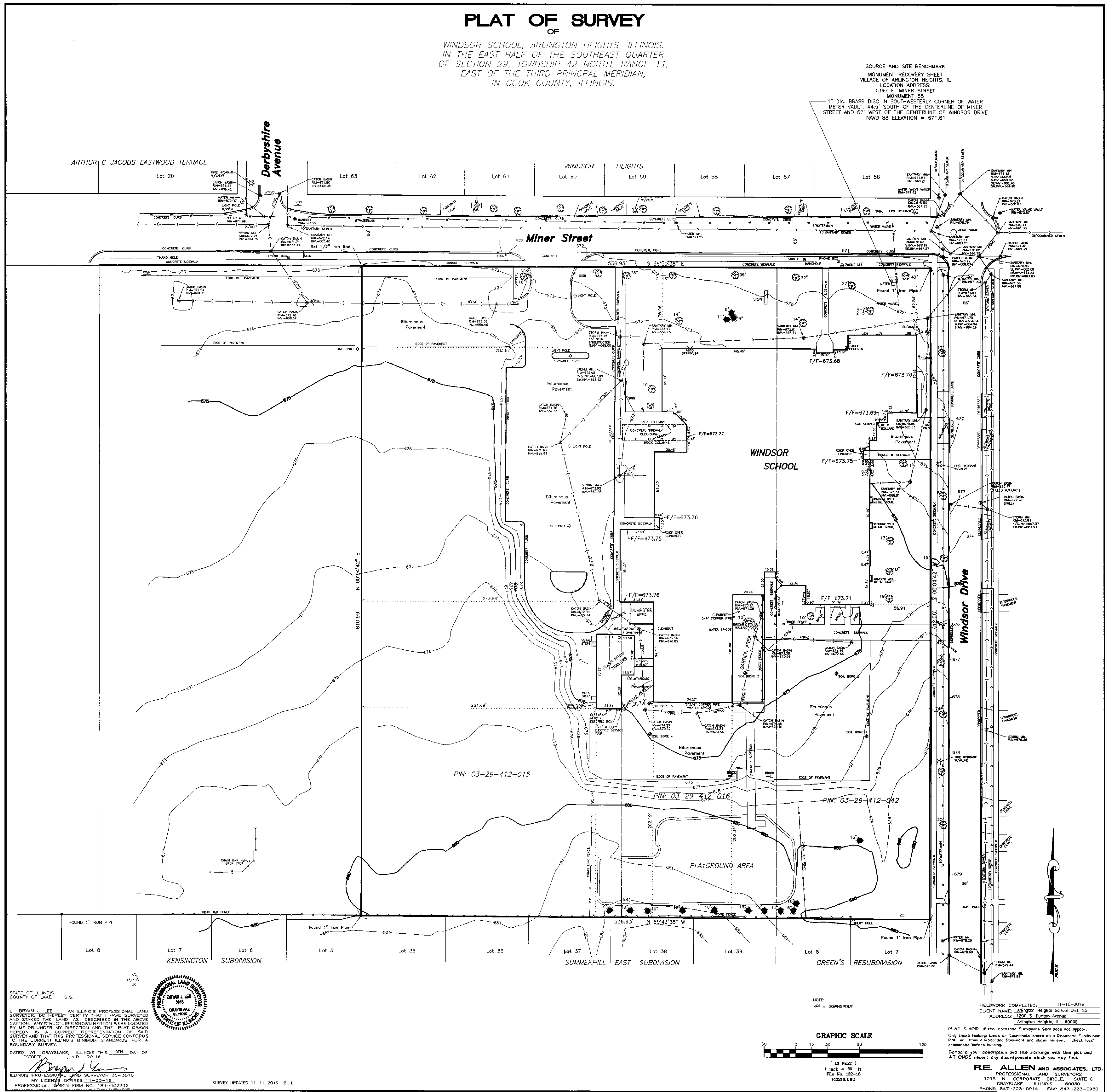
Plot of Survey and Topography Provided by R.E. Allen and Associates, Ltd. For Eriksson Engineering Associates on November 10, 2016. Order Number F132-16.

PROJECT BENCHMARKS

Source Benchmark:
Monument Recovery Sheet
Village of Arlington Heights, IL
Location Address:
1397 E. Miner Street
Monument 55
1" Dia. Brass Disc in Southwesterly Corner of Water Meter Vault, 44.5' South Of The Centerline Of Miner Street And 67' West Of The Centerline Of Windsor Drive.
NAVD 88 Elevation = 671.61
Easting: 1083719.692
Northing: 1977018.846

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



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Design By:	Date:
JC	12/14/16
Approved By:	Project No.
KC	

Sheet Title:
PLAT OF
TOPOGRAPHIC
SURVEY

Sheet No:

C0.1

GENERAL NOTES

- The Location of Existing Underground Utilities, Such As Watermains, 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.

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-lb/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 Respread. 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 6120 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 Respread 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 4.2%. 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 "Dandy 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.

A. Referenced Specifications

- All Construction Shall Be In Accordance With The Applicable Sections Of The Following, Except As Modified Herein Or On The Plans:
 - Standard Specifications For Road And Bridge Construction (Latest Edition), By The Illinois Department Of Transportation (IDOT SS) For All Improvements Except Sanitary Sewer And Water Main Construction;
 - Standard Specifications For Water And Sewer Main Construction in Illinois, Latest Edition (SSWS) For Sanitary Sewer And Water Main Construction;
 - Village Of 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
 - The MWRD Local Sewer Systems Section Field Office Must Be Notified At Least Two (2) Working Days Prior To The Commencement Of Any Work (Call 708-588-4055).
- The Village Of 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.
- 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 ILR11.C, At 1-800-892-0123.
- General Notes
 - All Elevations Shown On Plans Reference The North American Vertical Datum Of 1988 (NAVD88).
 - MWRD, The Municipality And The Owner Or Owner's Representative Shall Be Notified By The Contractor To Approve, And Reject The Construction Improvements.
 - The Contractor(s) Shall Indemnify The Owner, Engineer, Municipality, MWRD, And Their Agents, Etc., From All Liability Involved With The Construction, Installation, Or Testing Of This Work/On The Project.
 - The Proposed Improvements Must Be Constructed In Accordance With The Engineering Plans As Approved By MWRD And The Municipality. 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.
 - The Location Of Various Underground Utilities Which Are Shown On The Plans Are For Information Only And Represent The Best Knowledge Of The Engineer. Verify Locations And Elevations Prior To Beginning The Construction Operations.
 - Any Existing Pavement, Sidewalk, Driveway, Etc., Damaged During Construction Operations And Not Called For To Be Replaced Shall Be Replaced At The Expense Of The Contractor.
 - Material And Compaction Testing Shall Be Performed In Accordance With The Requirements Of The Municipality, MwrD, And Owner.
 - The Underground Contractor Shall Make All Necessary Arrangements To Notify All Inspection Agencies.
 - All New And Existing Utility Structures On Site And In Areas Disturbed During Construction Shall Be Adjusted To Finish Grade Prior To Final Inspection.
 - Record Drawings Shall Be Kept By The Contractor And Submitted To The Engineer As Soon As They Are Received. Improvements Are Completed, Final Payments To The Contractor Shall Be Held Until They Are Received. Any Changes In Length, Location Or Alignment Shall Be Shown In Red. All Wyes Or Bends Shall Be Located From The Downstream Manhole. All Valves, B, Boxes, Tees Or Bends Shall Be Tied To A Fire Hydrant.
- Sanitary Sewer
 - The Contractor Shall Take Measures To Prevent Any Polluted Water, Such As Ground And Surface Water, From Entering The Existing Sanitary Sewers.
 - A Water-Tight Plug Shall Be Installed In The Downstream Sewer Pipe At The Point Of Sewer Connection Prior To Commencing Any Sewer Construction. The Plug Shall Remain In Place Until Removal Is Authorized By The Municipality And/OR MWRD After The Sewers Have Been Tested And Accepted.
 - Discharging Any Unpolluted Water Into The Sanitary Sewer System For The Purpose Of Sewer Flushing Of Lines For The Deflection Test Shall Be Prohibited Without Prior Approval From The Municipality Or MWRD.
 - All Sanitary Sewer Construction Shall Be In Accordance With The Standard Specifications For Water And Sewer Main Construction in Illinois (Latest Edition).
 - All Floor Drains Shall Discharge To The Sanitary Sewer System.
 - All Downspouts And Footing Drains Shall Discharge To The Storm Sewer System.
 - All Sanitary Sewer Pipe Materials And Joints (And Storm Sewer Pipe Materials And Joints In A Combined Sewer Area) Shall Conform To The Following:

Pipe Material	Pipe 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 18-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-3139
4-Inch To 12-Inch	AWWA C900	ASTM D-3212
14-Inch To 48-Inch	AWWA C905	ASTM D-3212

MWRDGC GENERAL NOTES

- 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 Pipe. Bedding Shall Be Placed At Least 12" Above The Top Of The Pipe When Using PVC.
- "Band Seal" Or Similar Non-shear Flexible-type Couplings Shall Be Used In The Connection Of Sewer Pipes Of Dissimilar Materials.
- 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 Congregled Pickhole And Watertight Gasket With The Word "Sanitary" Cast Into The Lid.
- When Connecting To An Existing Sewer Main By Means Other Than An Existing Wye, Tee, Or An Existing Manhole, One Of The Following Methods Shall Be Used:
 - A Circular Saw-Cut Of Sewer Main By Proper Tools (Sawer-Top Machine Or Similar) And Proper Installation Of Hubwye Saddle Or Hub-Tee Saddle.
 - Remove An Entire Section Of Pipe (Breaking Only The Top Of One Bell) And Replace With A Wye Or Tee Branch Section.
 - With Pipe Cutter, Neatly And Accurately Cut Out Desired Length Of Pipe For Insertion Of Proper Fitting, Using Band Seal Or Similar Couplings To Hold It Firmly In Place.
- Whenever A Sanitary/Combined Sewer Crosses Under A Watermain, The Minimum Vertical Distance From The Top Of The Sewer To The Bottom Of The Watermain Shall Be 18 Inches. Furthermore, A Minimum Horizontal Distance Of 10 Feet Between A Combined Sewers And Watermain Shall Be Maintained Unless: The Sewer Is Laid In A Separate Trench, Keeping A Minimum 18" Vertical Separation; Or The Sewer Is Laid In The Same Trench With The Watermain Located At The Opposite Side On A Bench Of Undisturbed Earth, Keeping 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.
- All Existing Septic Systems Shall Be Abandoned. Representative Tanks Shall Be Filled With Granular Material Or Removed.
- All Sanitary Manholes, (And Storm Manholes In Combined Sewer Areas), Shall Have A Minimum Inside Diameter Of 48 Inches. All Manholes Shall Be Cast In Place Or Pre-Cast Reinforced Concrete.
- All Sanitary Manholes, (And Storm Manholes In Combined Sewer Areas), Shall Have Precast "Rubber Boots" That Conform To ASTM C-923 For All Pipe Connections. Precast Sections Shall Consist Of Modified Groove Tongue And Rubber Gasket Type Joints.
- All Abandoned Sanitary Sewers Shall Be Plugged At Both Ends With At Least 2 Feet Long Non-shear concrete Or Mortar Plug.
- 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. Any Perforated Pipes Encountered Within The Project Area Shall Be Plugged Or Removed, And Shall Not Be Connected To Combined Sewers, Sanitary Sewers, Or Storm Sewers Tributary To Combined Sewers.
- A Backflow Preventer Is Required For All Detention Basins Tributary To Combined Sewers. Required Backflow Preventers Shall Be Inspected And Exercised Annually By The Property Owner To Ensure Proper Operation, And Any Necessary Maintenance Shall Be Performed To Ensure Functionality. In The Event Of A Sewer Surcharge Into An Open Detention Basin Tributary To Combined Sewers, The Permittee Shall Ensure That Clean Up And Wash Out Of Sewage Takes Place Within 48 Hours Of The Storm Event.
- Erosion And Sediment Control
 - The Contractor Shall Install The Erosion And Sediment Control Devices As Shown On The Approved Erosion And Sediment Control Plan.
 - Erosion And Sediment Control Practices Shall Be Functional Prior To Hydrologic Disturbance Of The Site.
 - All Design Criteria, Specifications, And Installation Of Erosion And Sediment Control Practices Shall Be In Accordance With The Illinois Urban Manual.
 - A Copy Of The Approved Erosion And Sediment Control Plan Shall Be Maintained On The Site At All Times.
 - Inspections And Documentation Shall Be Performed, At A Minimum:
 - Upon Completion Of Initial Erosion And Sediment Control Measures, Prior To Any Soil Disturbance.
 - Once Every Seven (7) Calendar Days And Within 24 Hours Of The End Of A Storm Event With Greater Than 0.5 Inch Of Rainfall Or Liquid Equivalent Precipitation.
 - Soil Disturbance Shall Be Conducted in Such A Manner As To Minimize Erosion. If Stripping, Clearing, Grading, Or Landscaping Are To Be Done In Phases, The Co-Permittee Shall Plan For Appropriate Soil Erosion And Sediment Control Measures.
 - A Stabilized Mat Of Crushed Stone Meeting The Standards Of The Illinois Urban Manual Shall Be Installed At Any Point Where Traffic Will Be Entering Or Leaving A Construction Site. Sediment Or Soil Reaching An Improved Public Right-Of-Way, Street, Alley Or Parking Area Shall Be Removed By Scraping Or Street Cleaning As Accumulations Warrant And Transported To A Controlled Sediment Disposal Area.
 - Concrete Washout Facilities Shall Be Constructed In Accordance With The Illinois Urban Manual And Shall Be Installed Prior To Any On Site Construction Activities Involving Concrete.



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LICENSE NO. 184-003220
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WINDSOR ELEMENTARY SCHOOL
ADDITION AND RENOVATIONS

1315 E. Miner Street
Arlington Heights, Illinois

Reserved for Seal:

Expiration Date: _____

No.	Date	Description
1	12/14/16	ISSUE FOR BID & PERMIT
	01/05/17	ADDENDUM 2
	01/24/17	REVISED PARKING LOT LAYOUT
	01/27/17	ISSUED FOR CONSTRUCTION

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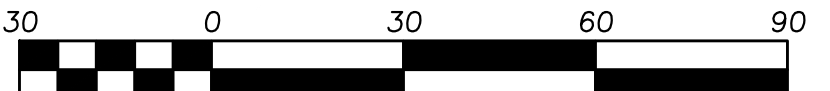
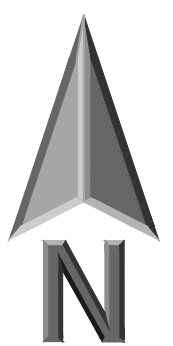
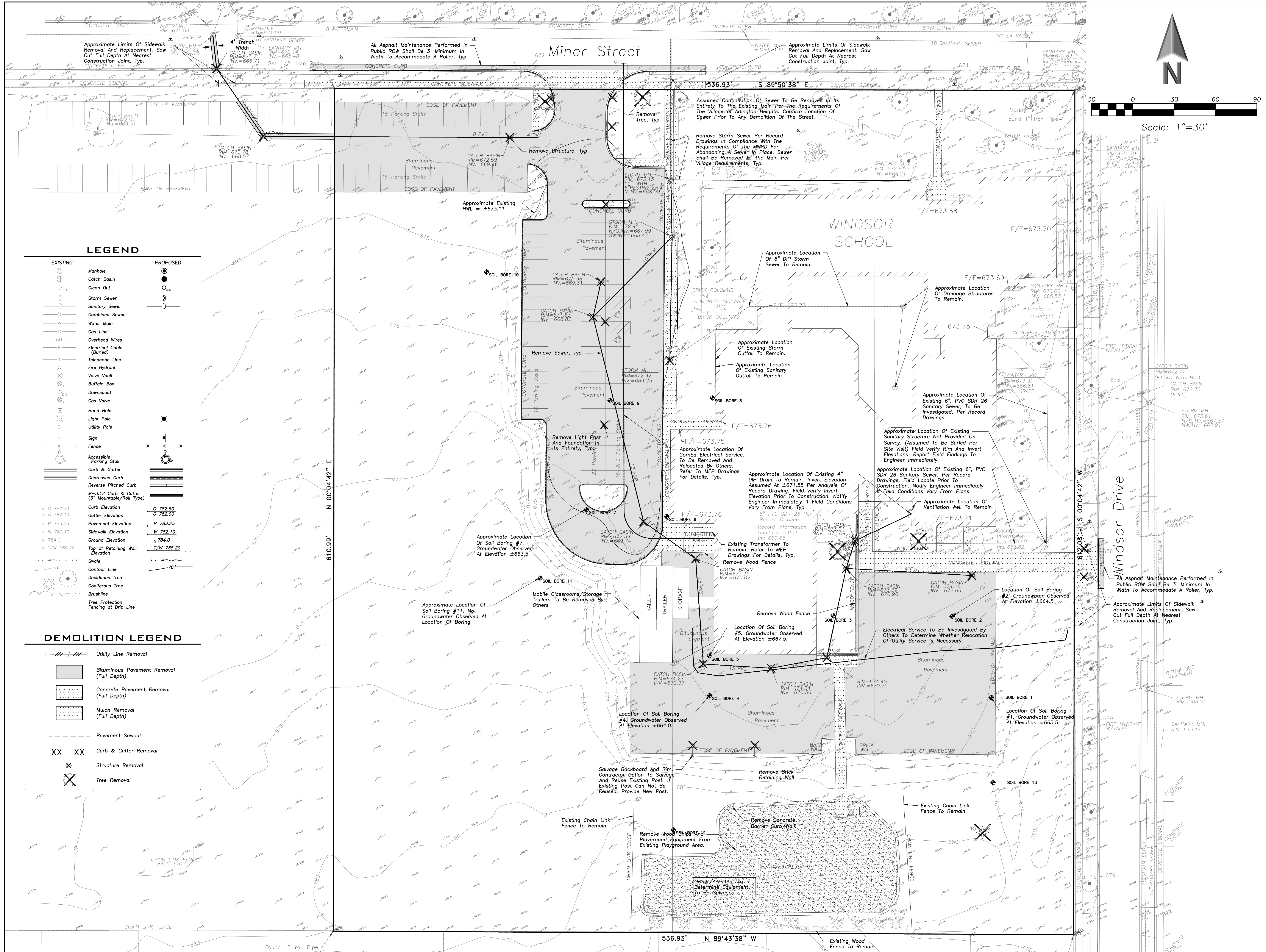
Design By:	JC	Date:	12/14/16
Approved By:	KC	Project No.	

Sheet Title:

SITE WORK
NOTES

Sheet No:

C0.2



Scale: 1"=30'

LEGEND

EXISTING	PROPOSED

DEMOLITION LEGEND

	Utility Line Removal
	Bituminous Pavement Removal (Full Depth)
	Concrete Pavement Removal (Full Depth)
	Mulch Removal (Full Depth)
	Pavement Sawcut
	Curb & Gutter Removal
	Structure Removal
	Tree Removal



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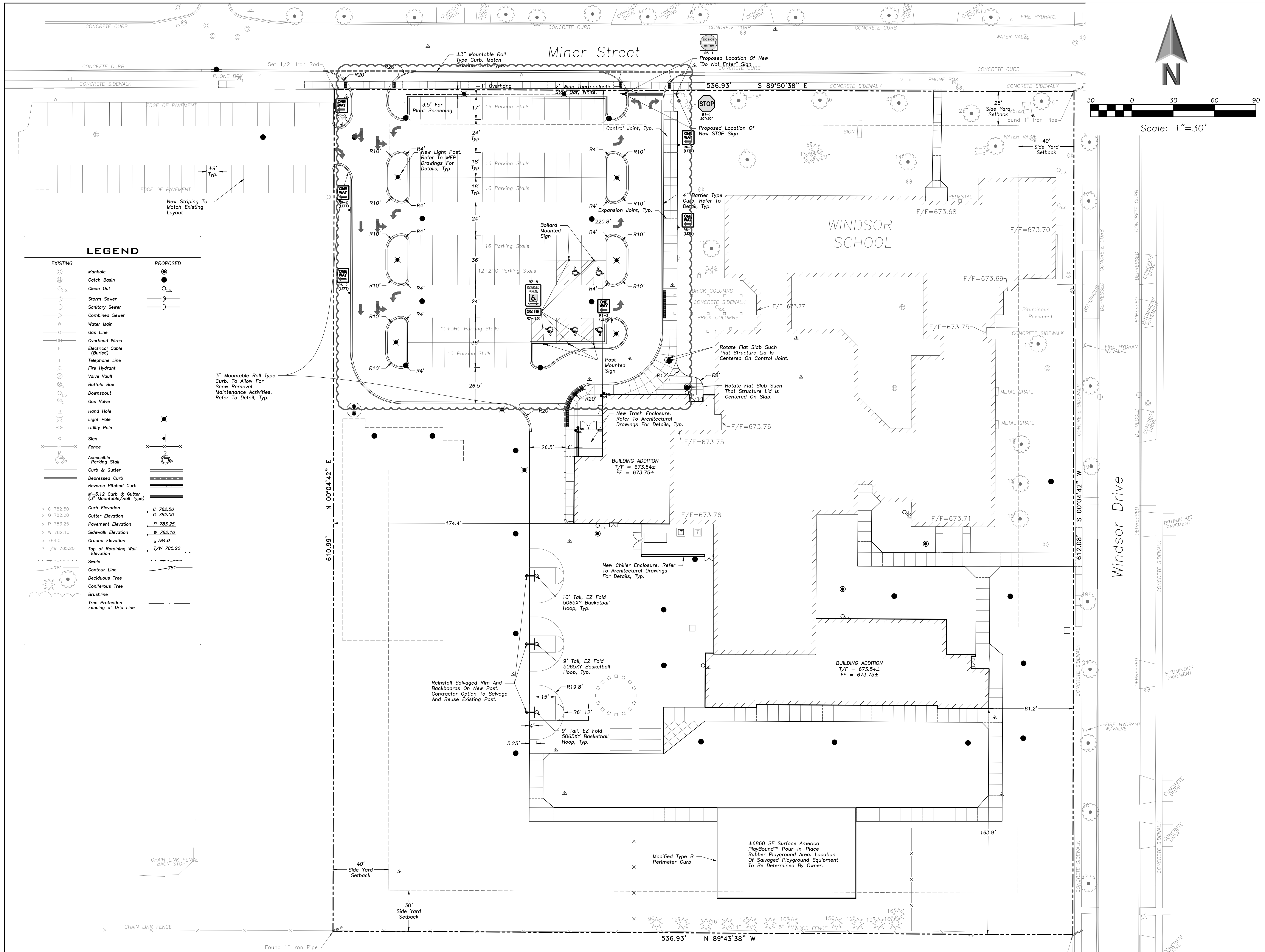
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Sheet Title:

SITE DEMOLITION PLAN

Sheet No:

C1.1



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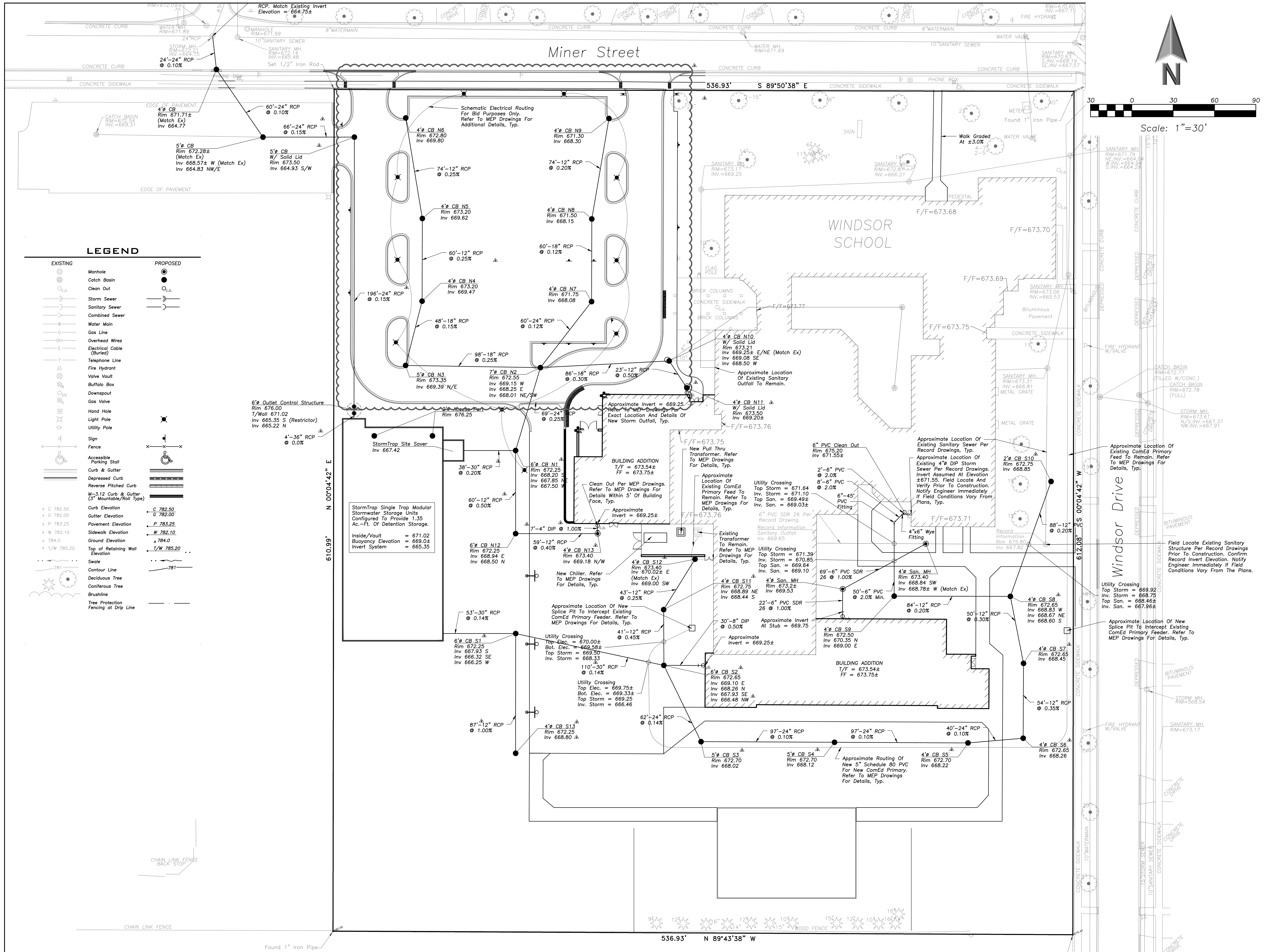
DESIGN BY: JC		DATE: 12/14/16	
APPROVED BY: KC		PROJECT NO.	

Sheet Title:

**SITE GEOMETRY
PLAN**

Sheet No:

C2.1



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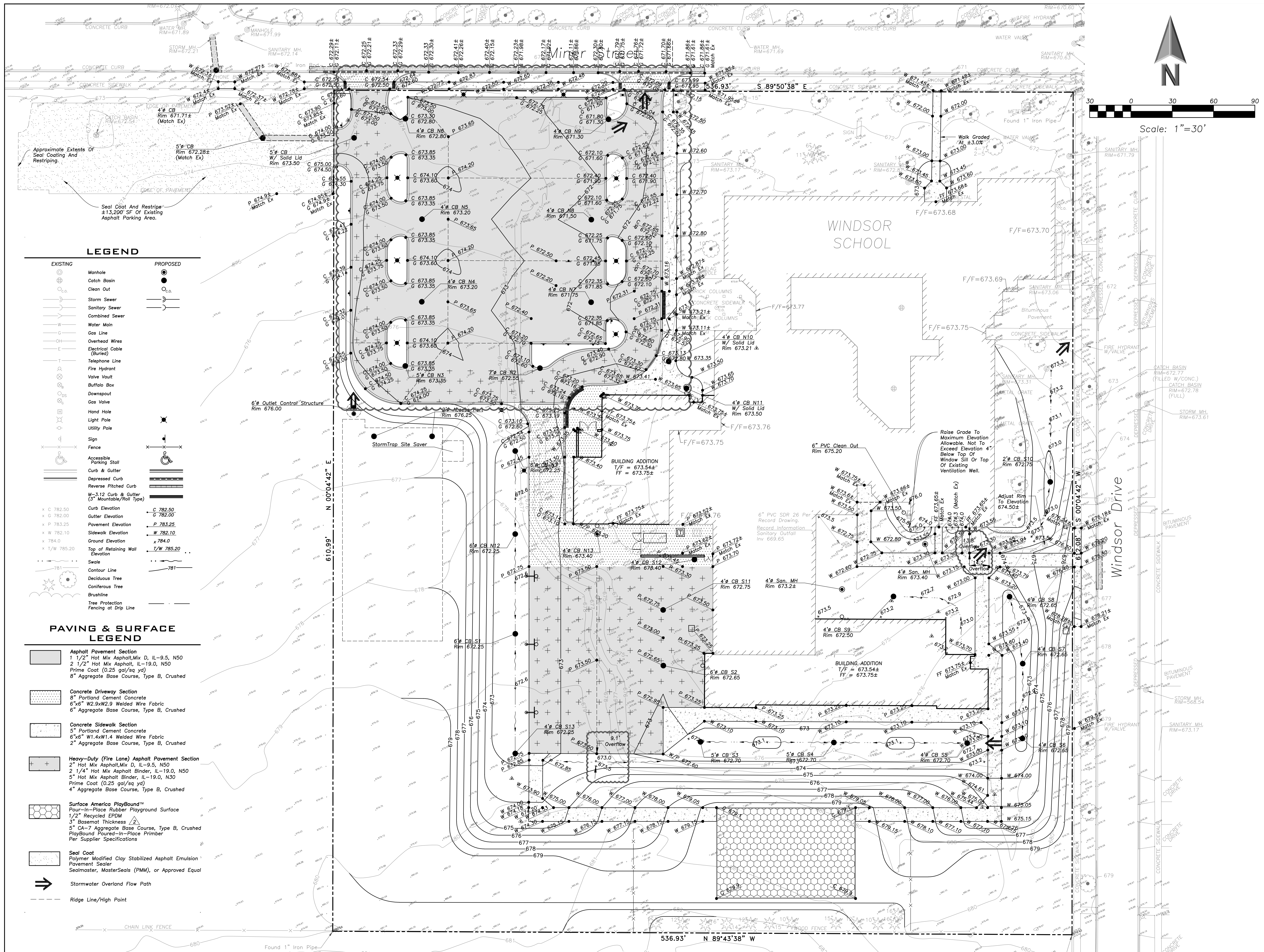
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Approved By:	KC	Project No.	

SITE UTILITY PLAN

Sheet No:
C3.1



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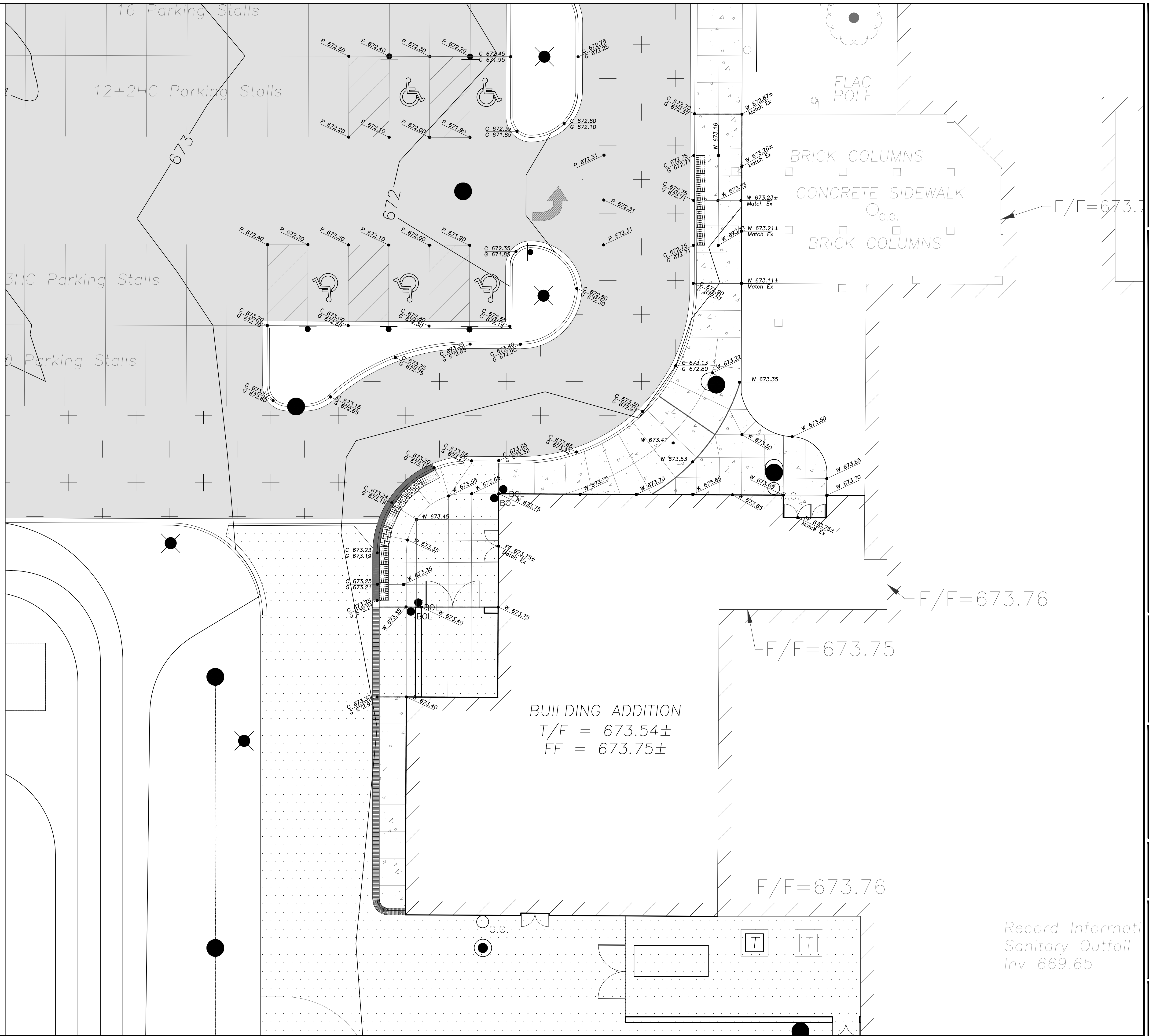
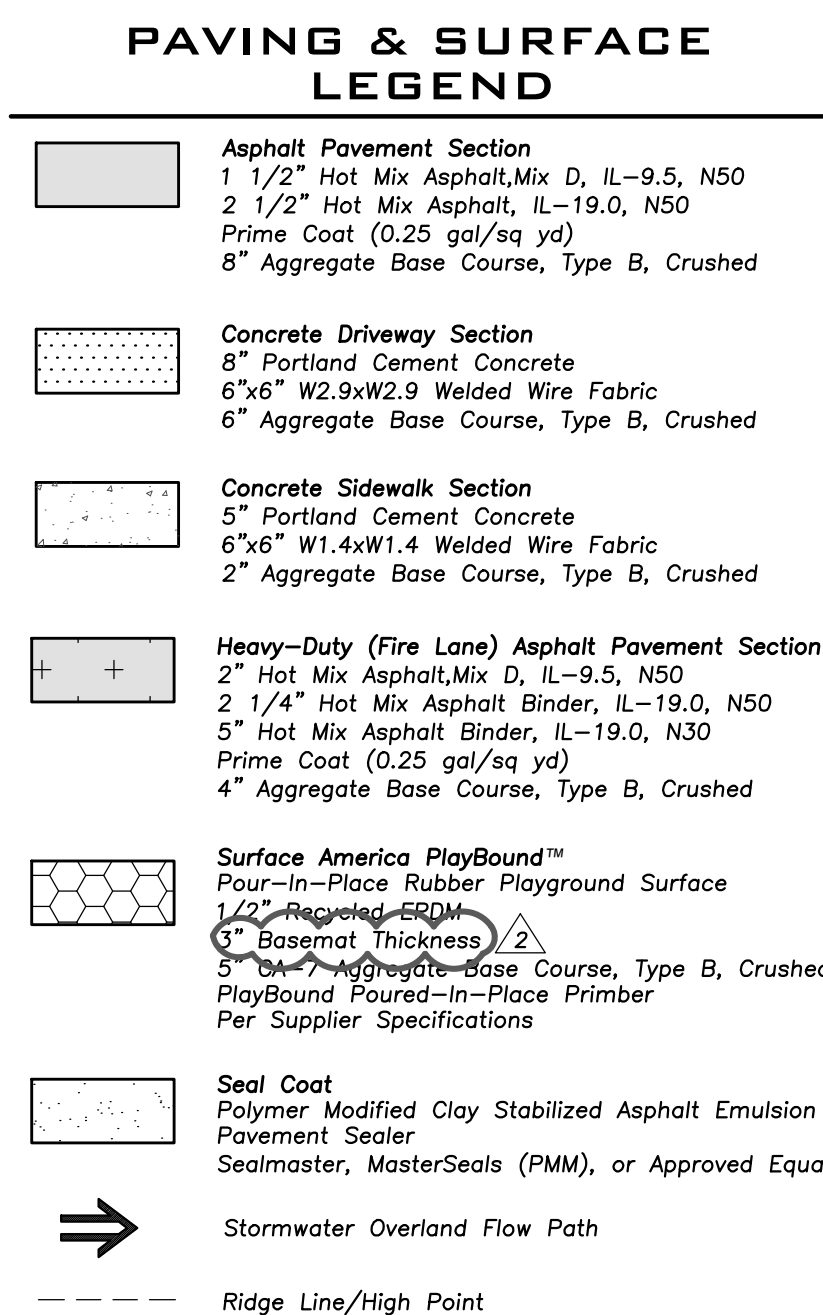
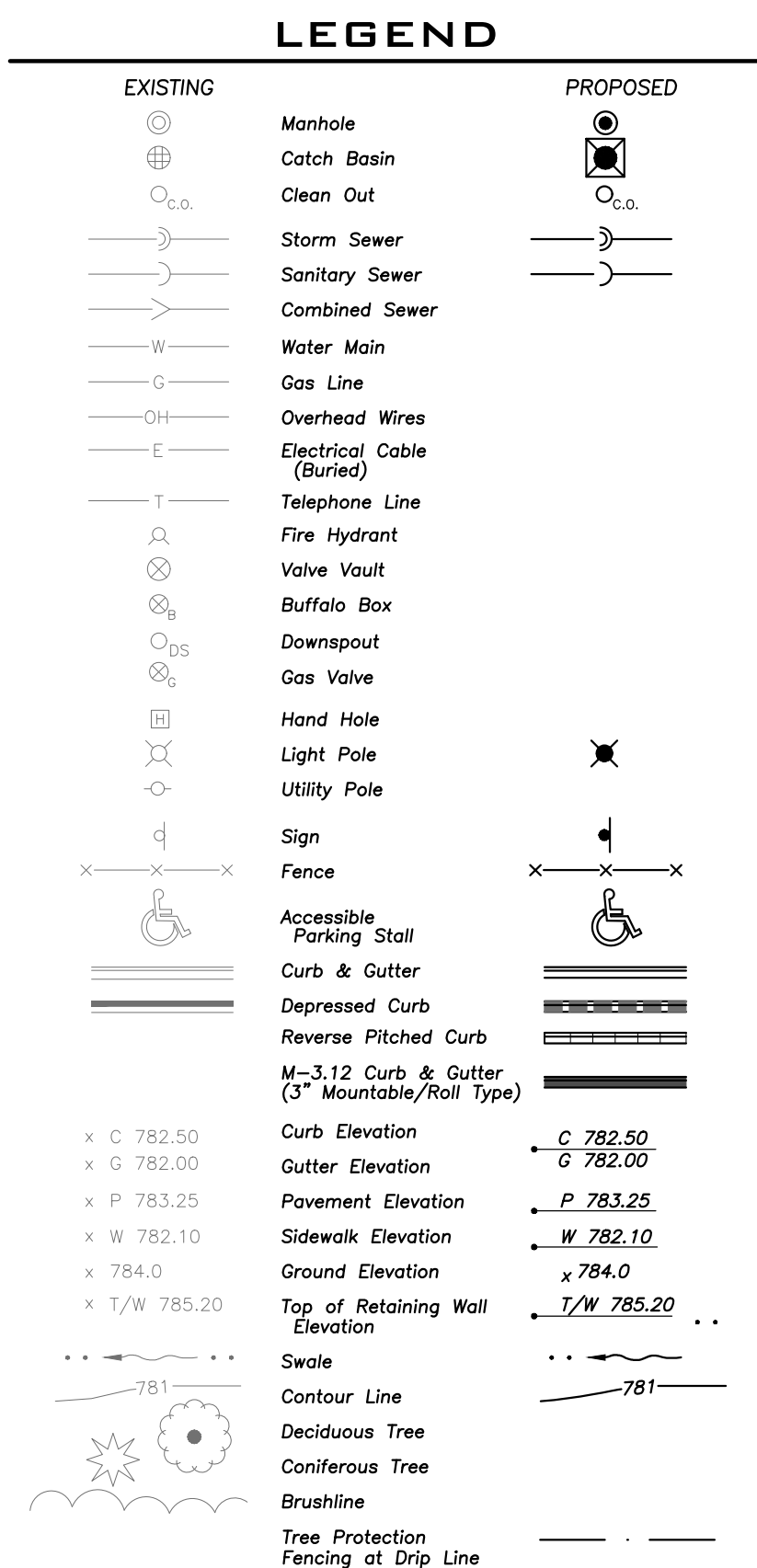
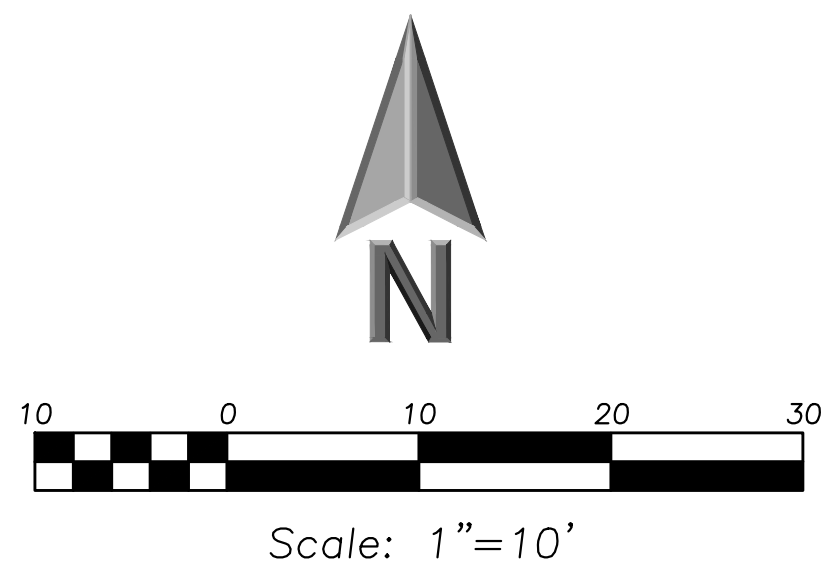
Design By:	JC	Date:	12/14/16
Approved By:	KC	Project No.	

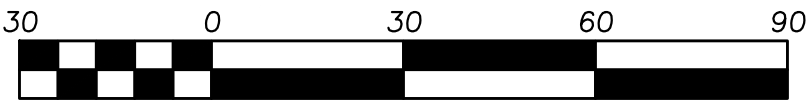
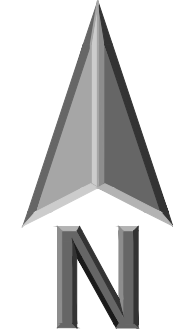
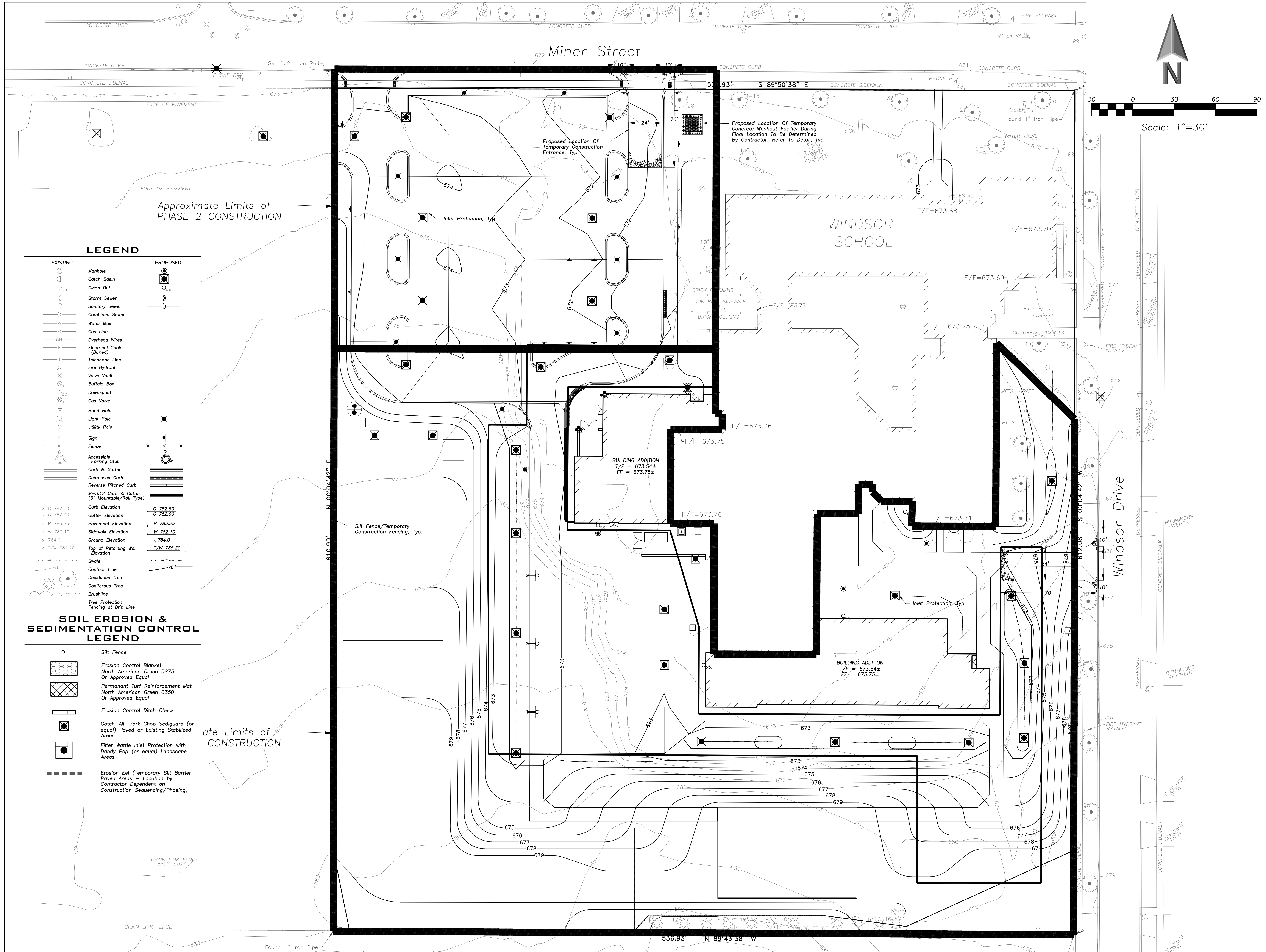
Sheet Title:

**GRADING AND
PAVING
PLAN**

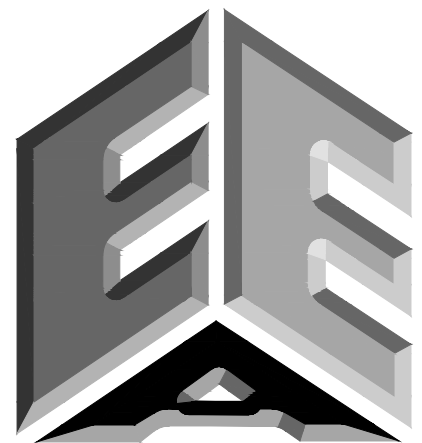
Sheet No:

C4.1





Scale: 1"=30'



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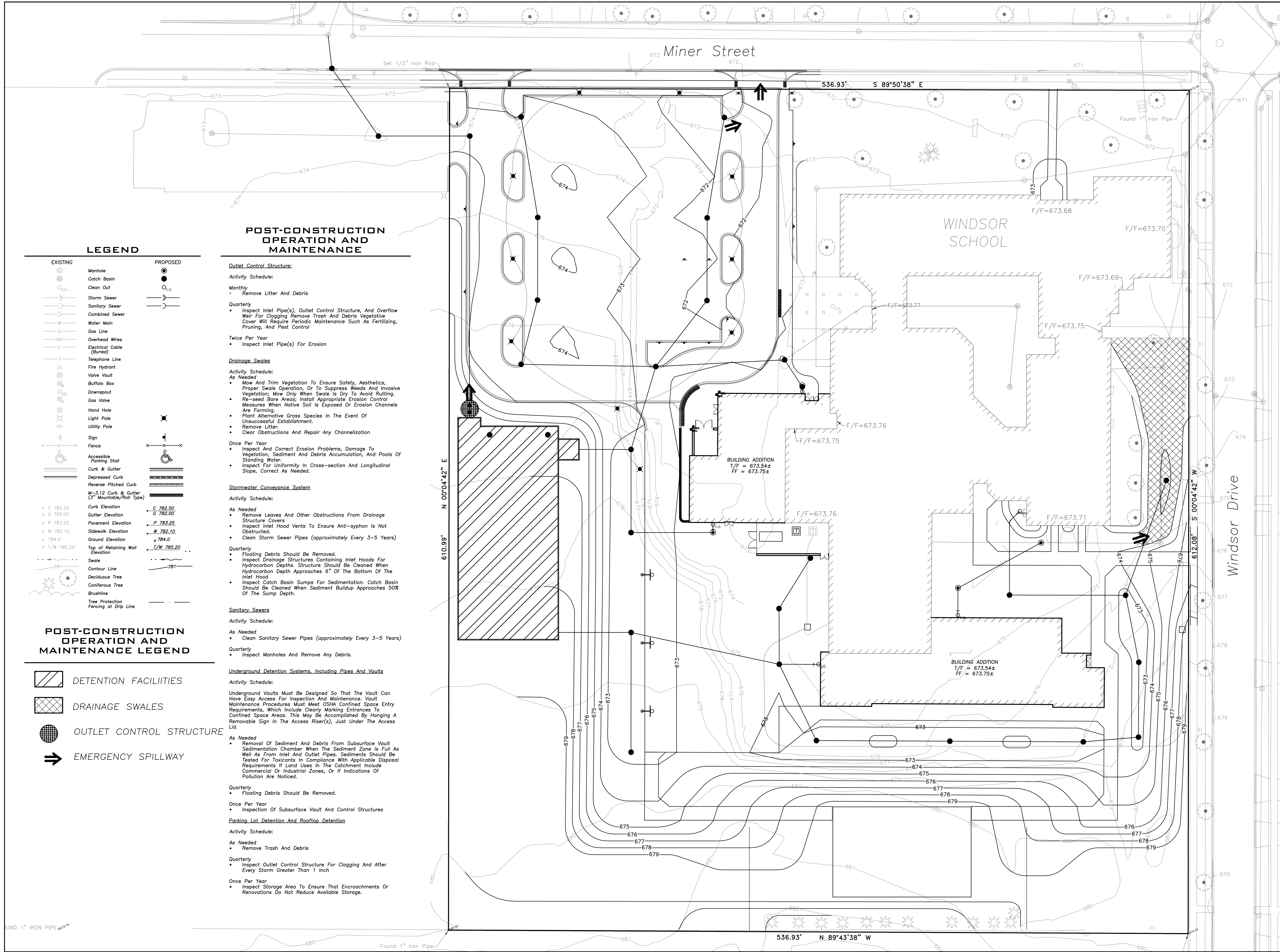
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Approved By:	KC	Project No.	

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

Sheet No:
C5.1



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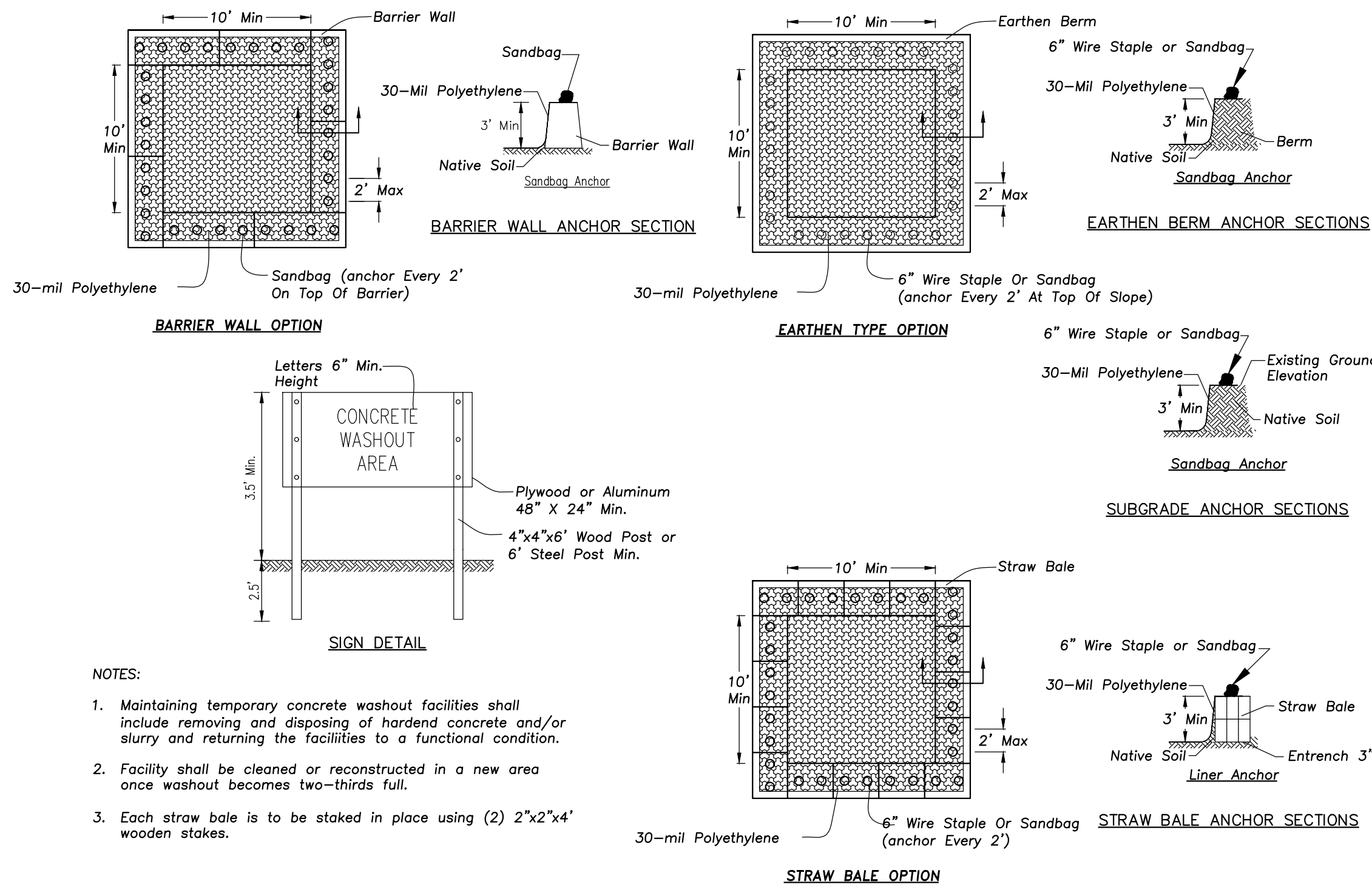
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Sheet Title:
**OPERATION AND
MAINTENANCE
PLAN**

Sheet No:
C6.1



CONCRETE WASHOUT FACILITY

GENERAL NOTES

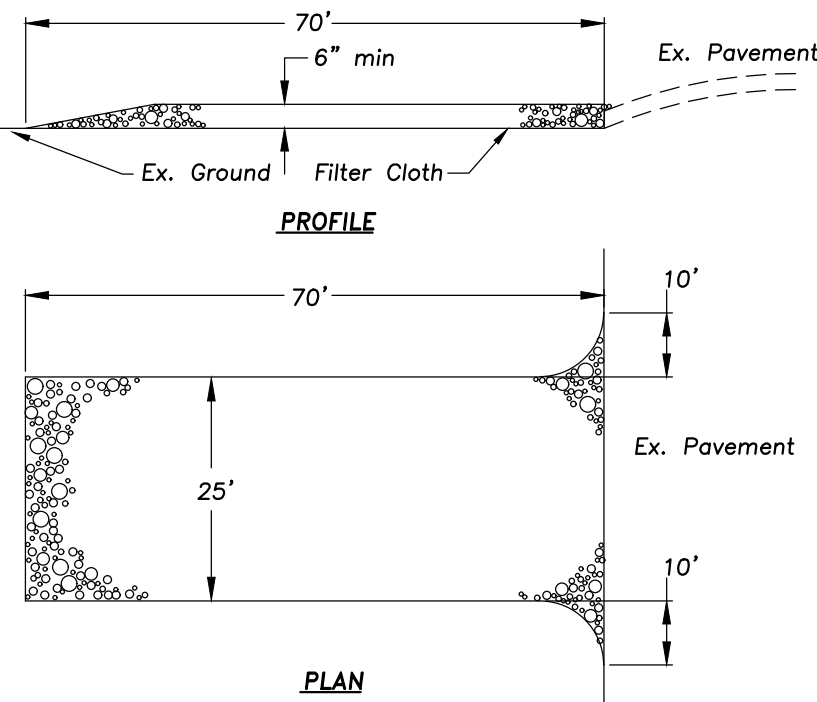
STONE SIZE — Use IDOT gradation CA-1 aggregate stone.

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.

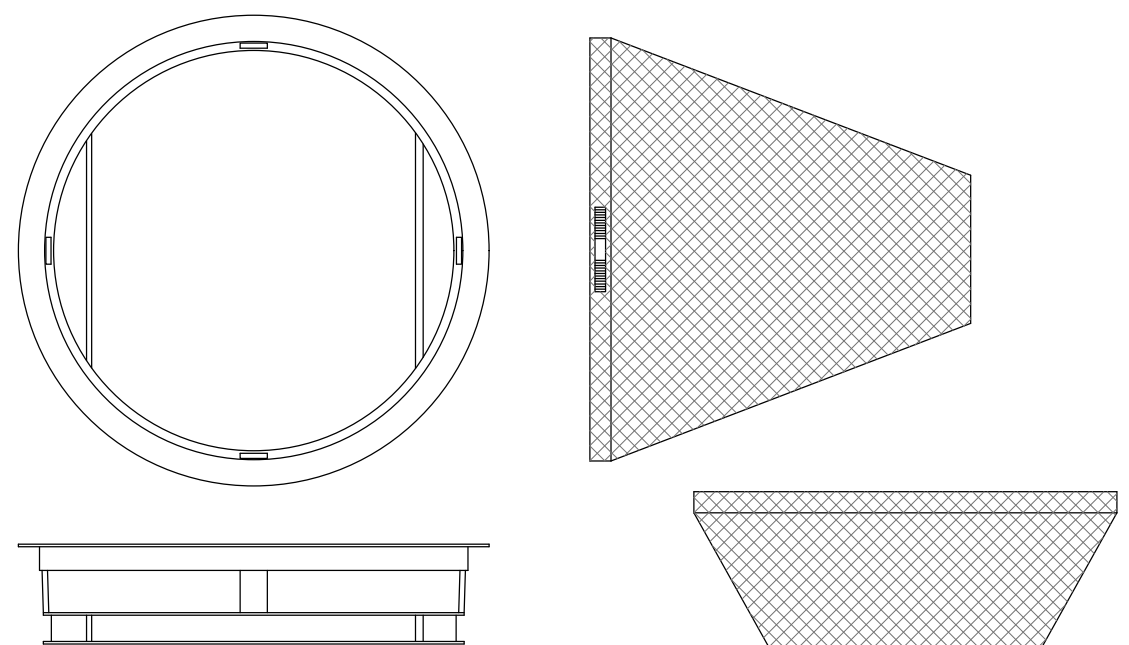
WASHING — Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.

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



STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



GENERAL NOTES:

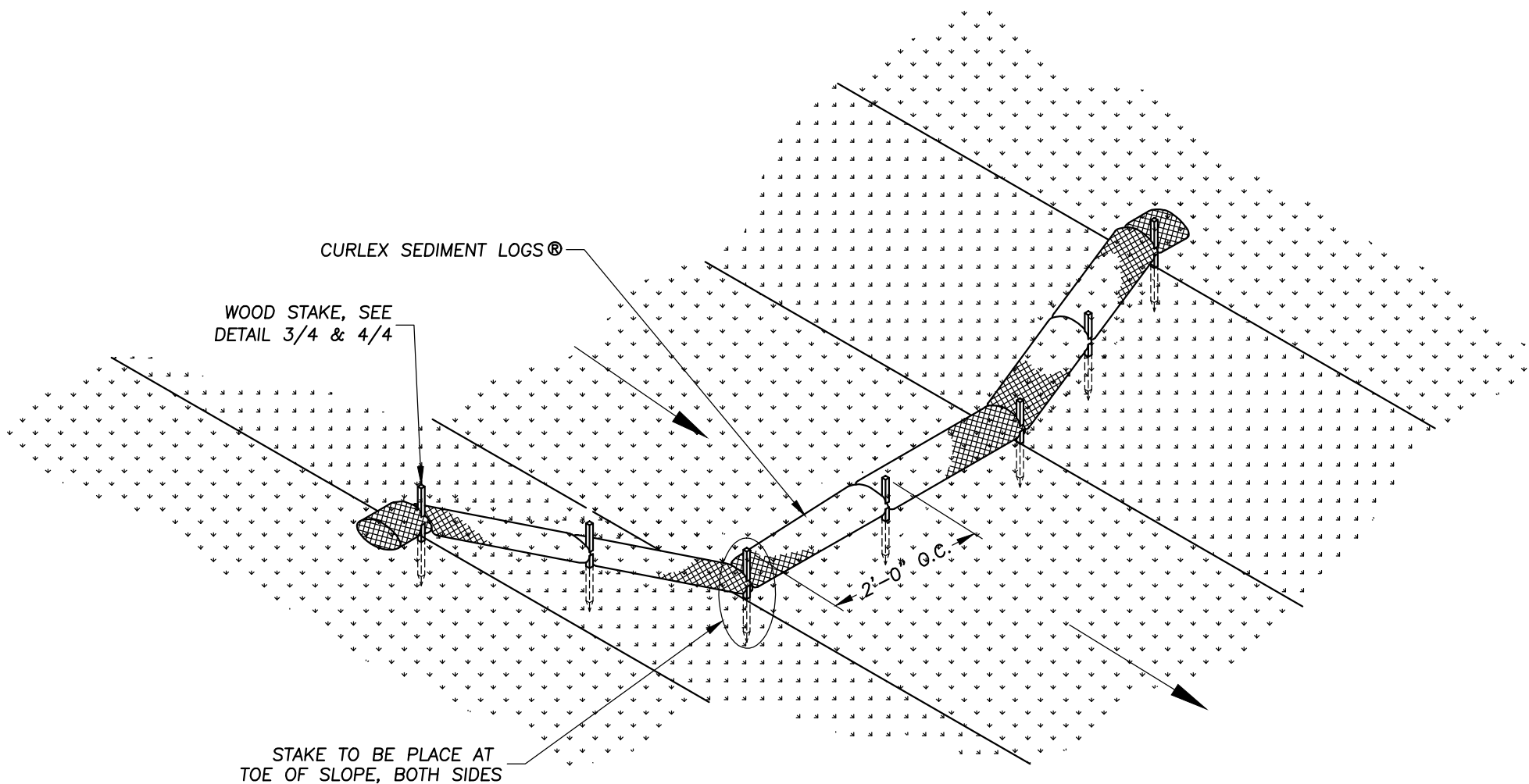
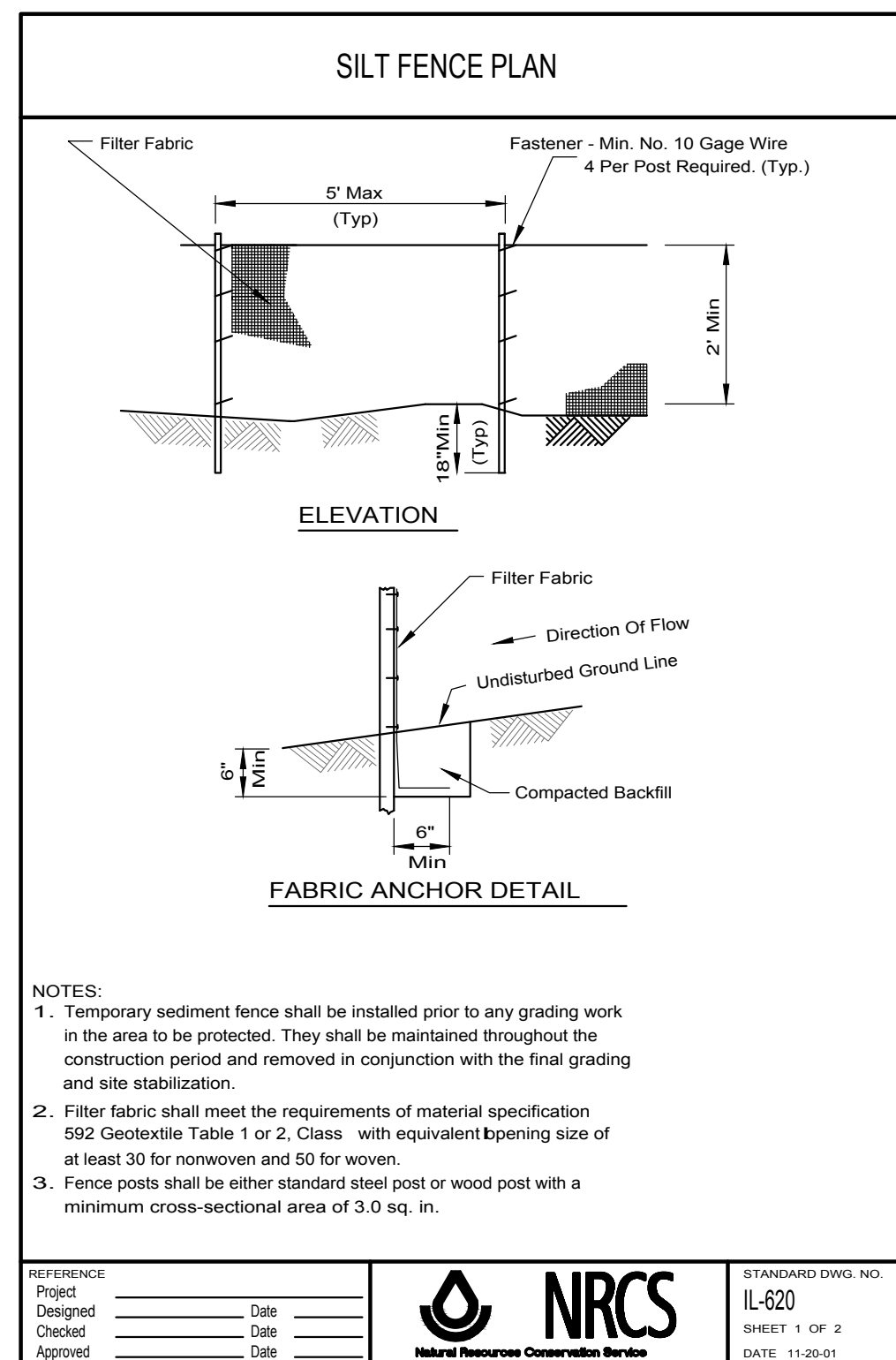
Use Marathon Materials, Inc., "Catch-All" Type 1 Inlet Protectors or Approved Equal. www.marathonmaterials.com

FRAME: Top flange fabricated from 1/2"x1/2"x1/2" angle. Base rim fabricated from 1/2"x1/2"x1/2" channel. Handles and suspension brackets fabricated from 1/2"x1/2" 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.

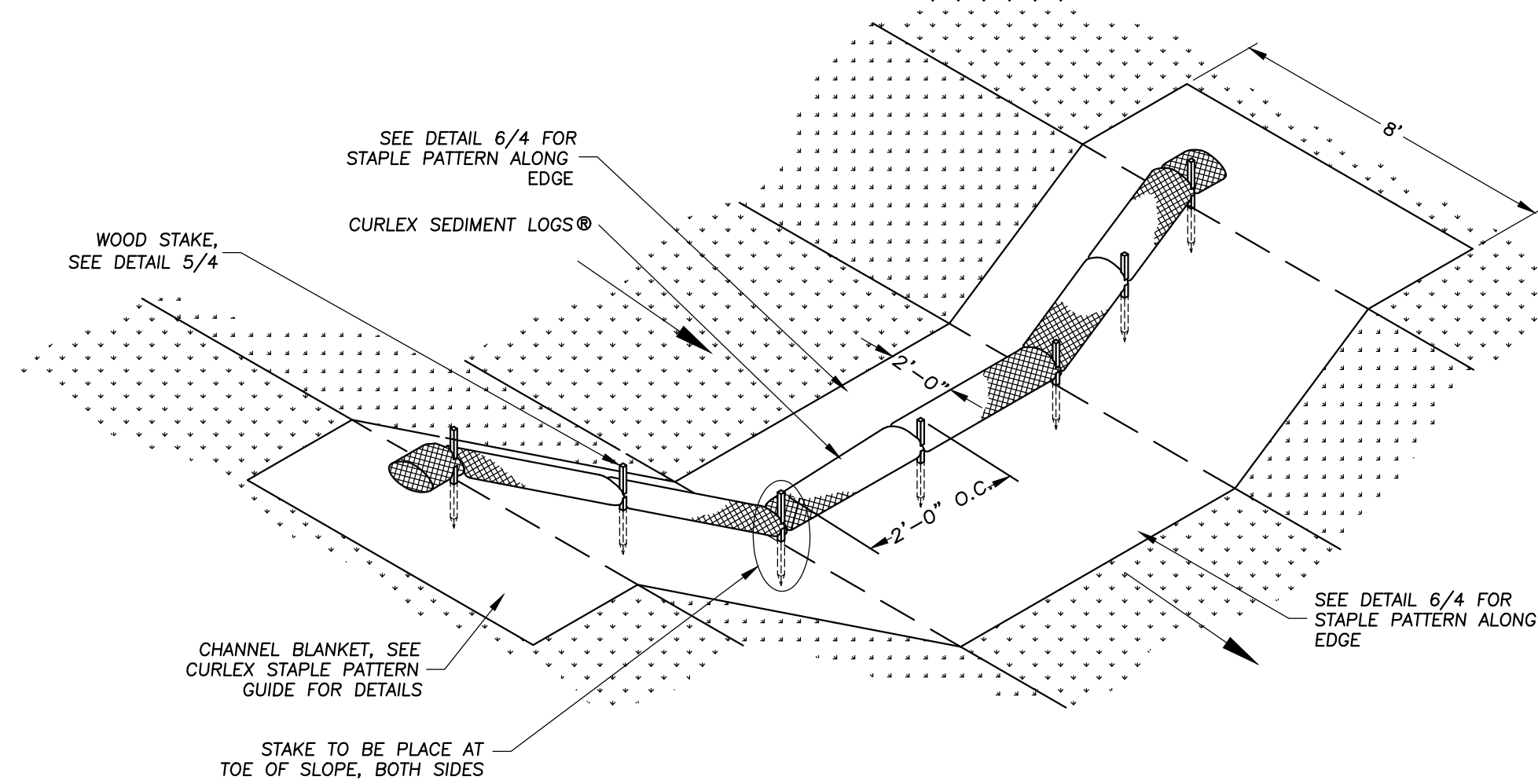
Install baskets in all existing storm inlets prior to construction and all new storm inlets immediately after installation. Contractor shall maintain throughout construction activities.

"CATCH-ALL" INLET PROTECTORS



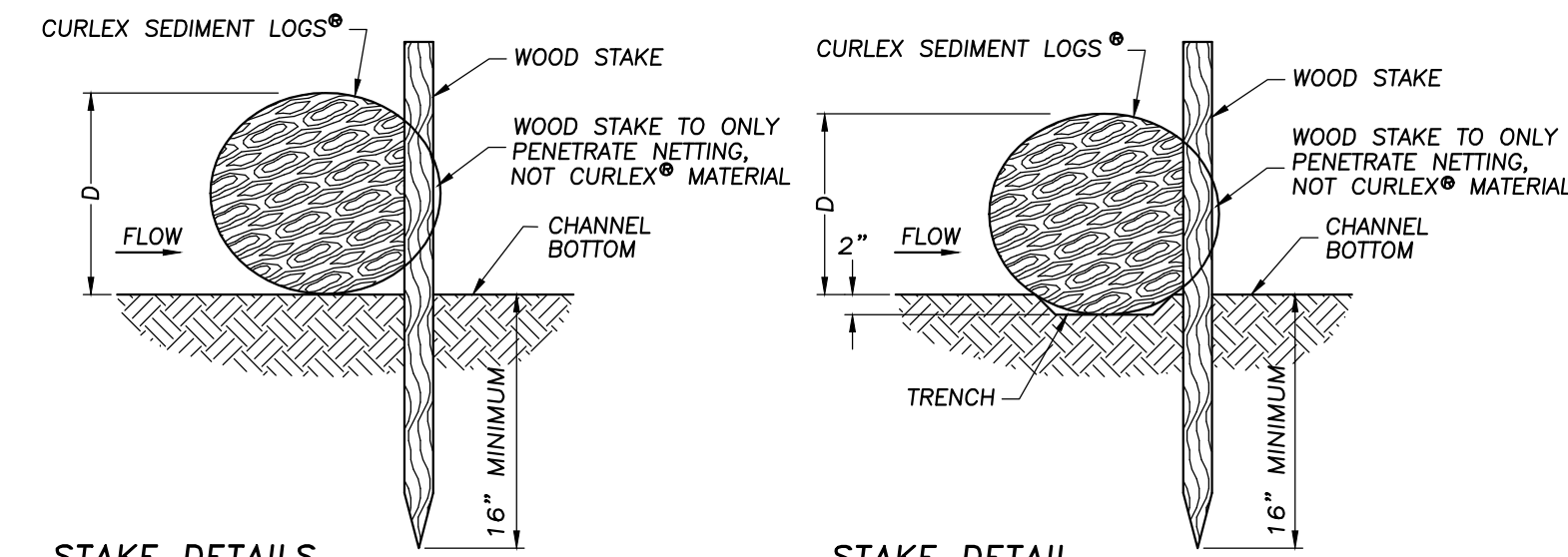
CURLEX SEDIMENT LOGS® DETAIL (NO BLANKET)

NO SCALE



CURLEX SEDIMENT LOGS® DETAIL (WITH BLANKET)

NO SCALE

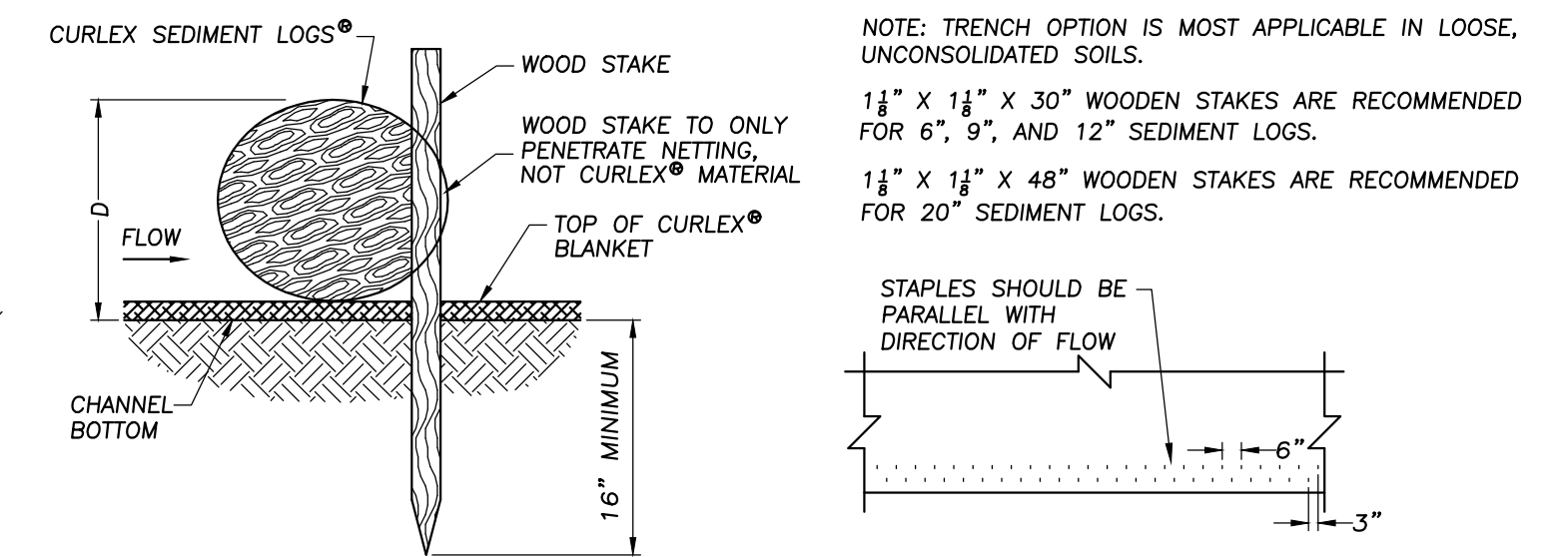


STAKE DETAILS (NO TRENCH)

NO SCALE

STAKE DETAIL (WITH TRENCH)

NO SCALE



STAKE DETAILS (NO TRENCH)

NO SCALE

CHANNEL TERMINATION PLAN

NO SCALE

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

RECOMMENDED PLACEMENT INTERVAL BETWEEN CURLEX SEDIMENT LOGS®

CURLEX SEDIMENT LOGS® DITCH CHECK

BY: AMERICAN EXCELSIOR COMPANY



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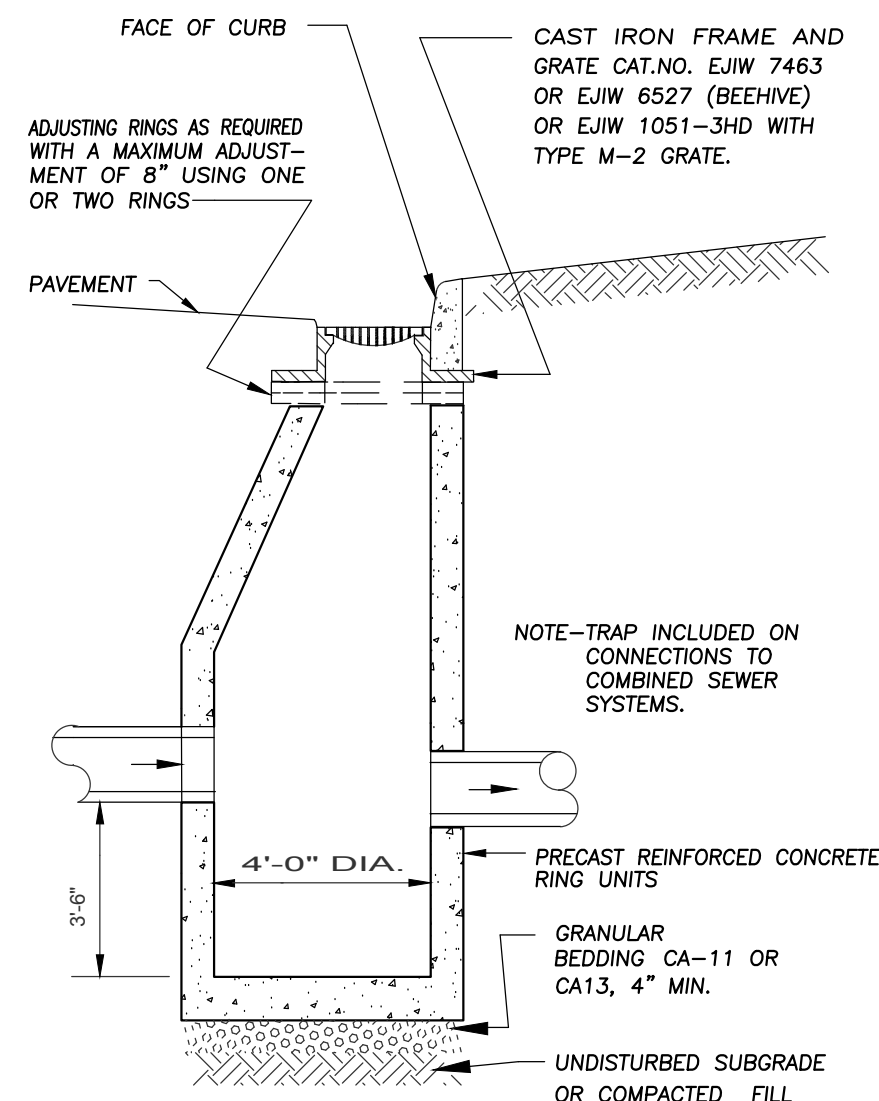
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Approved By:	KC	Project No.:	

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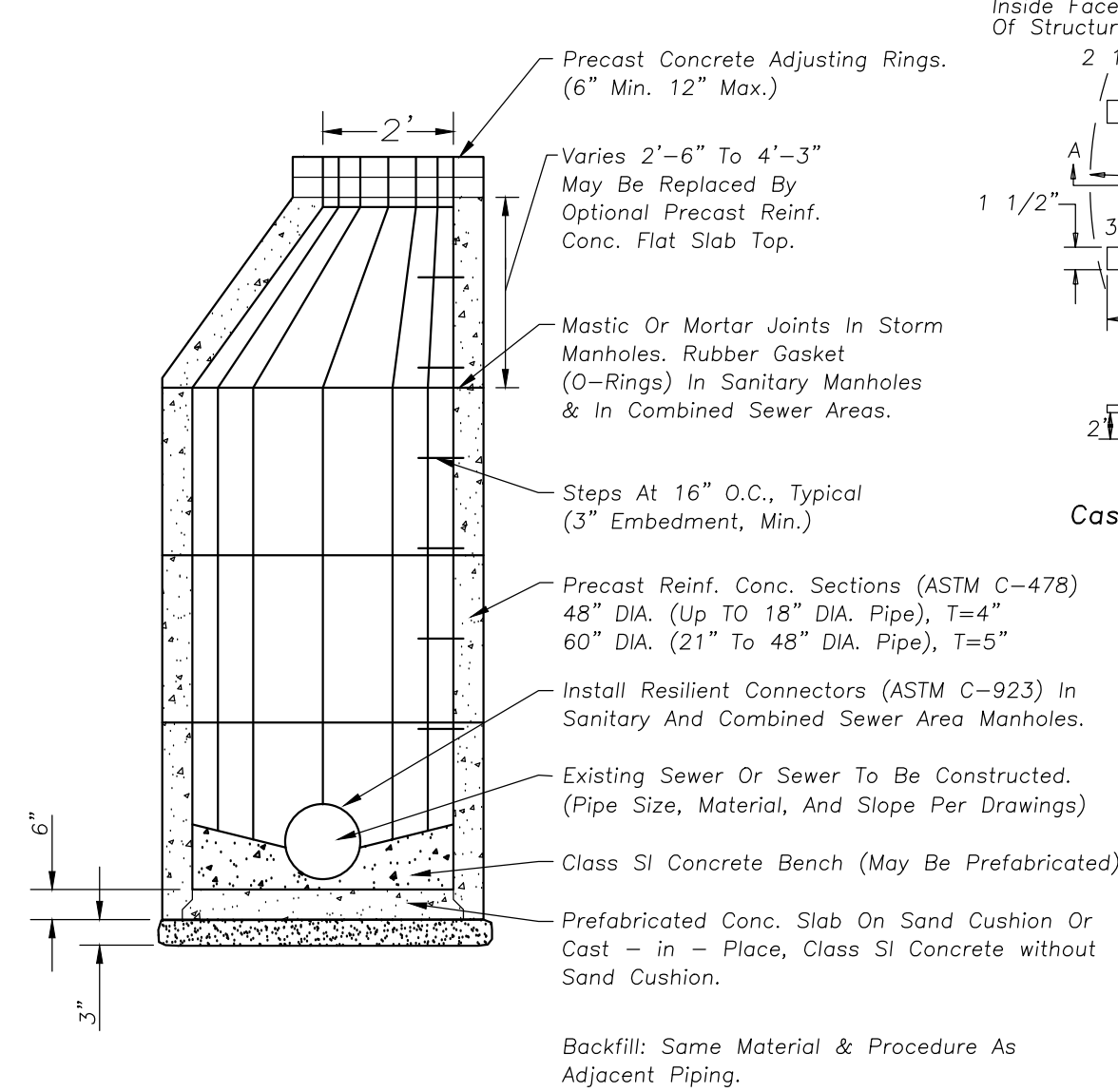
SITE WORK DETAILS

Sheet No:

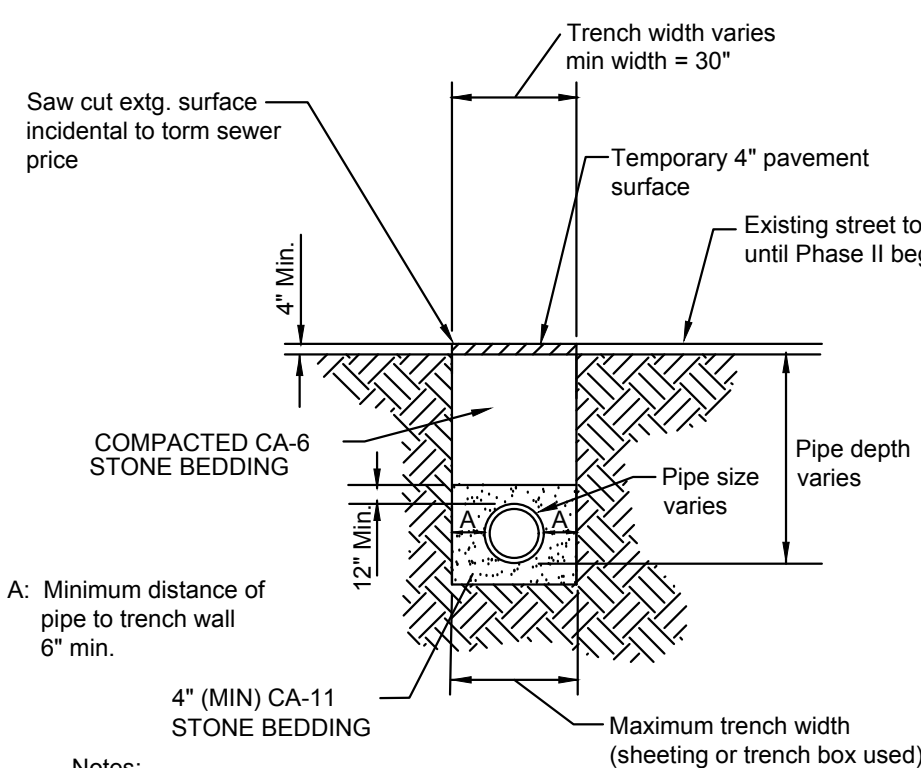
C7.1



TYPE A – CATCH BASIN



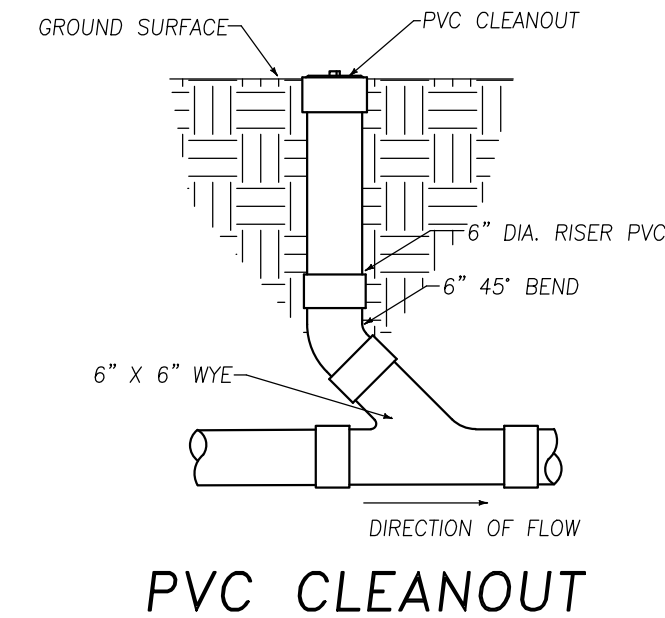
MANHOLE – 48"–60" DIA.



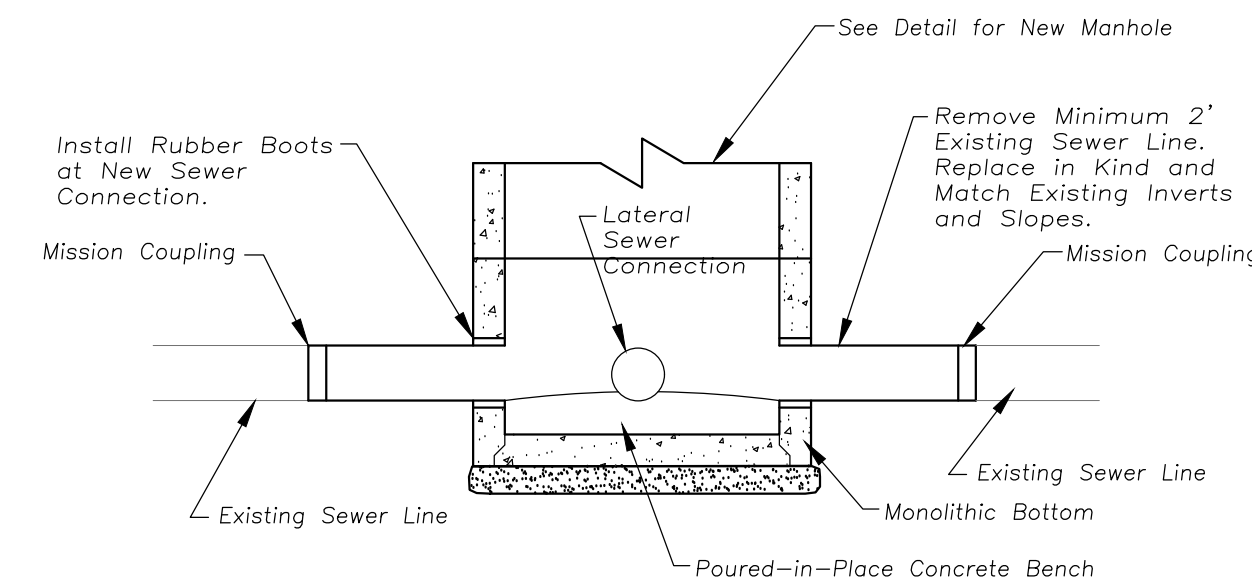
Notes:
When preparing for street subgrade removal of compacted stone subgrade shall be included with earth ex. removal
No separate payment will be made for fittings required for diverting sanitary sewer lines around proposed sewers. this cost of fittings will be incidental to the cost of the storm sewer pipe.
Cost of stone bedding material as shown shall be incidental to sewer pay items

Nominal pipe dia (D)	Maximum trench width at pipe crown
8"	3'-2"
10"	3'-2"
12"	3'-2"
15"	3'-6"
18"	3'-10"
21"	4'-4"
24"	4'-8"
27"	4'-11"
30"	5'-3"
33"	6'-0"
36"	6'-4"

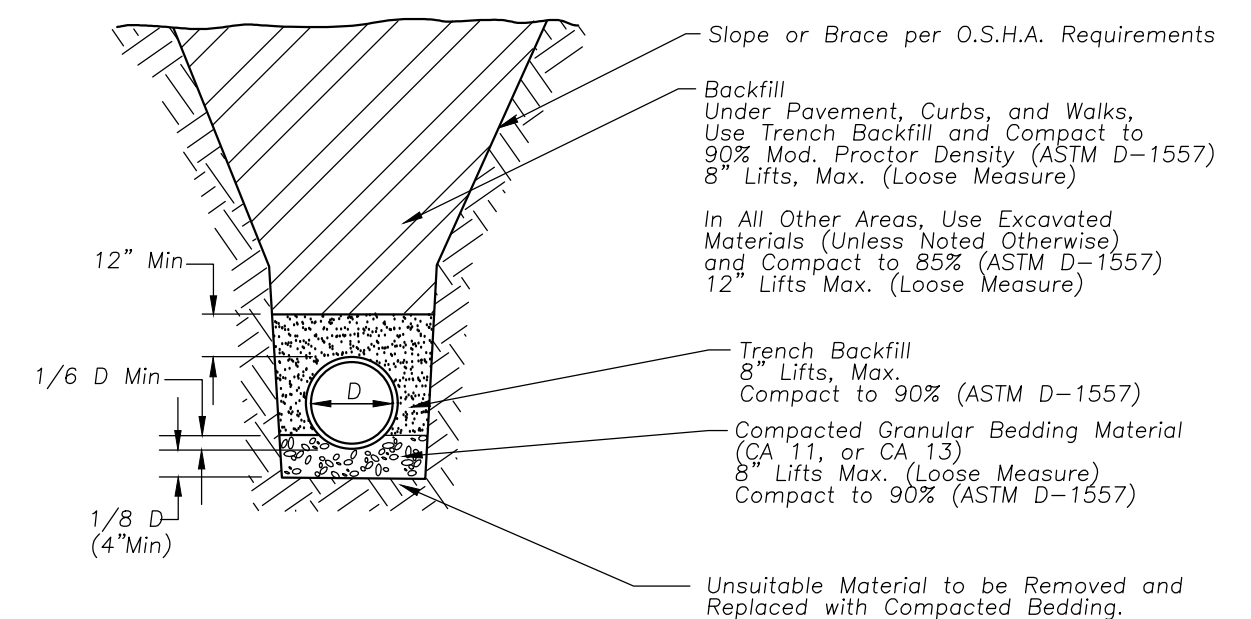
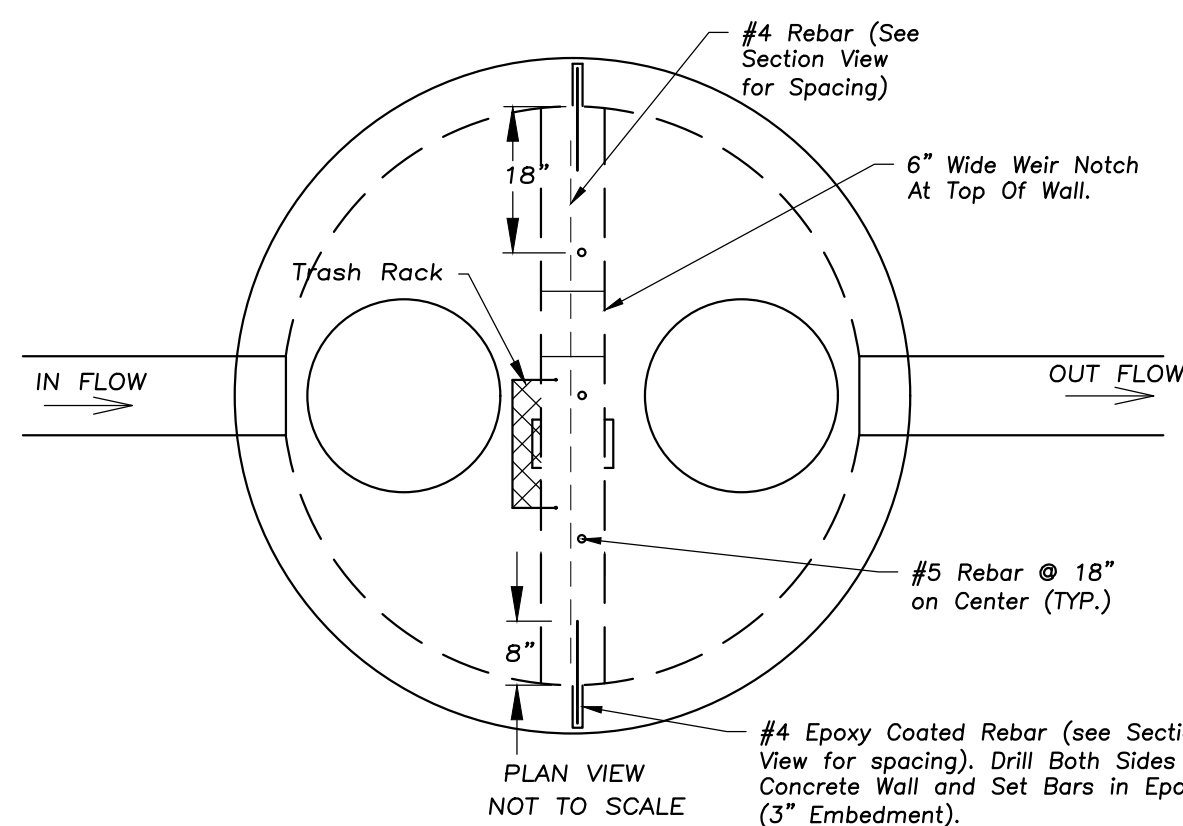
SANITARY SEWER TRENCH DETAIL



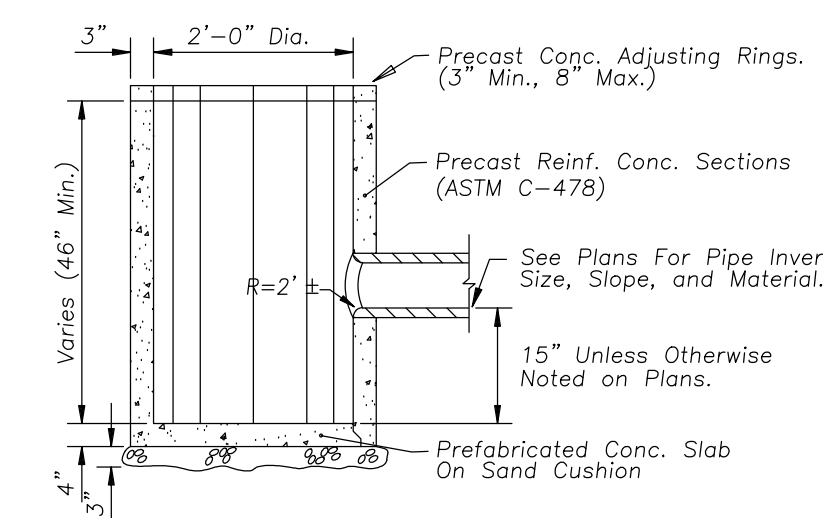
PVC CLEANOUT



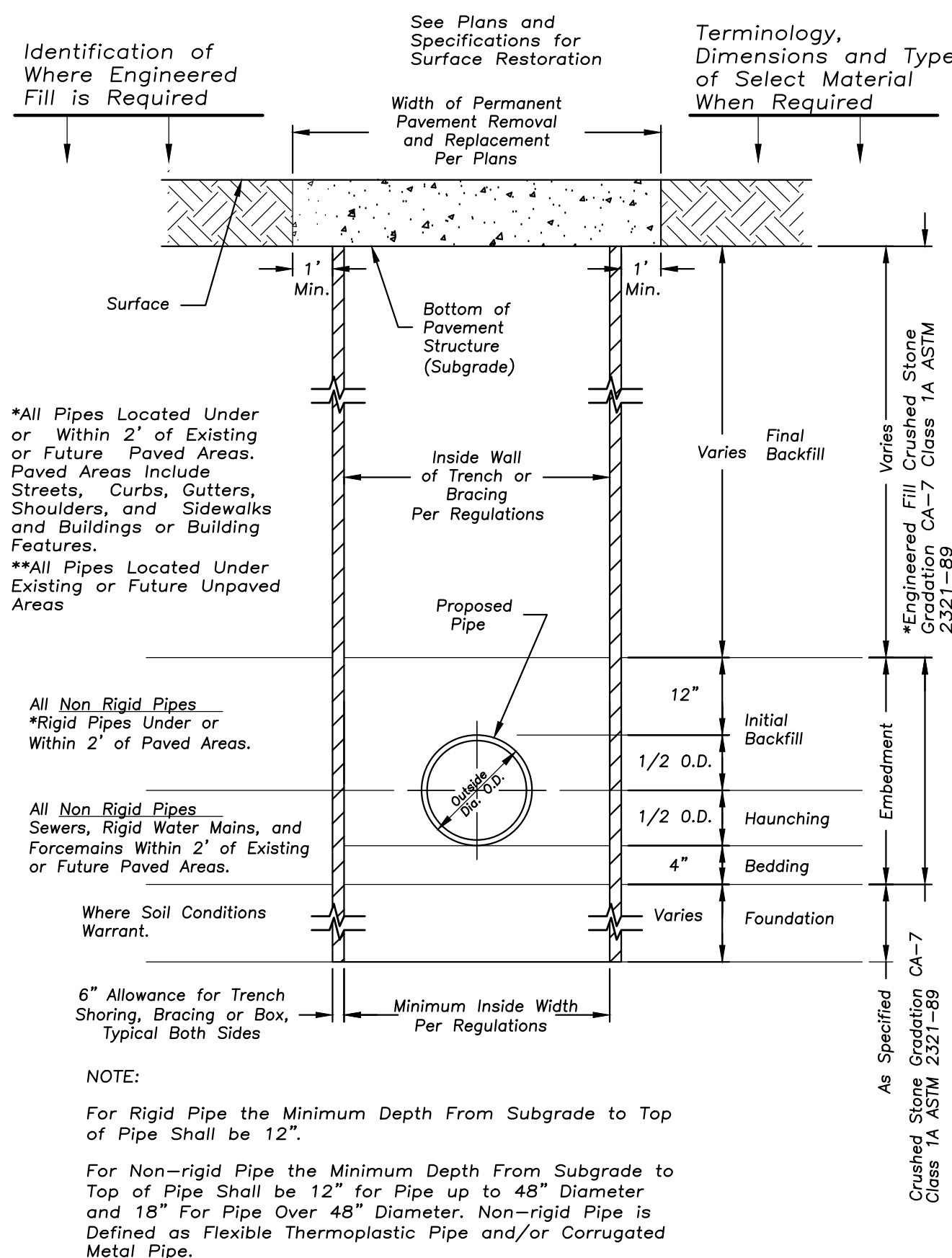
NEW MANHOLE ON EXISTING SEWER LINE



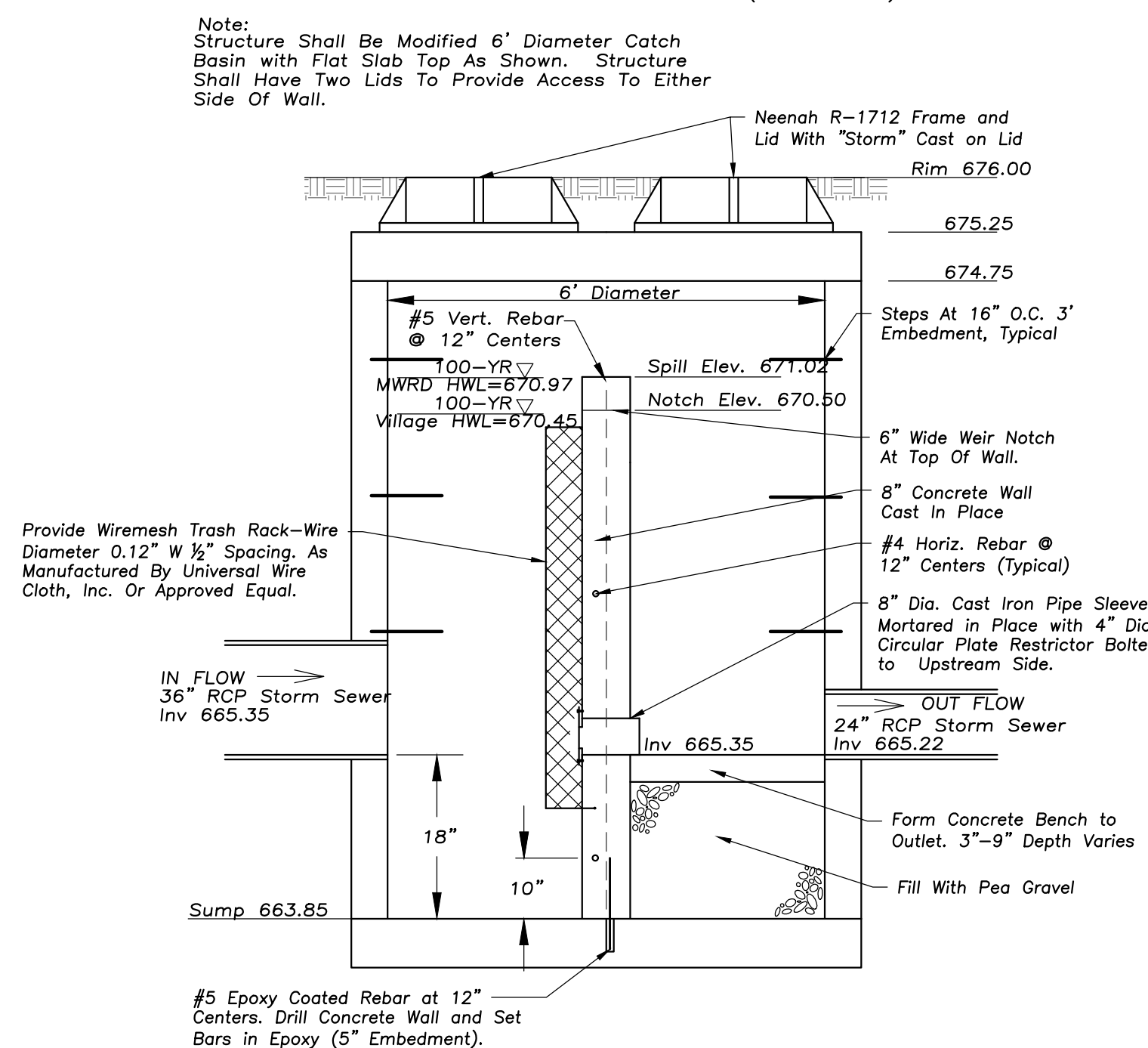
TRENCH SECTION-CONCRETE PIPE



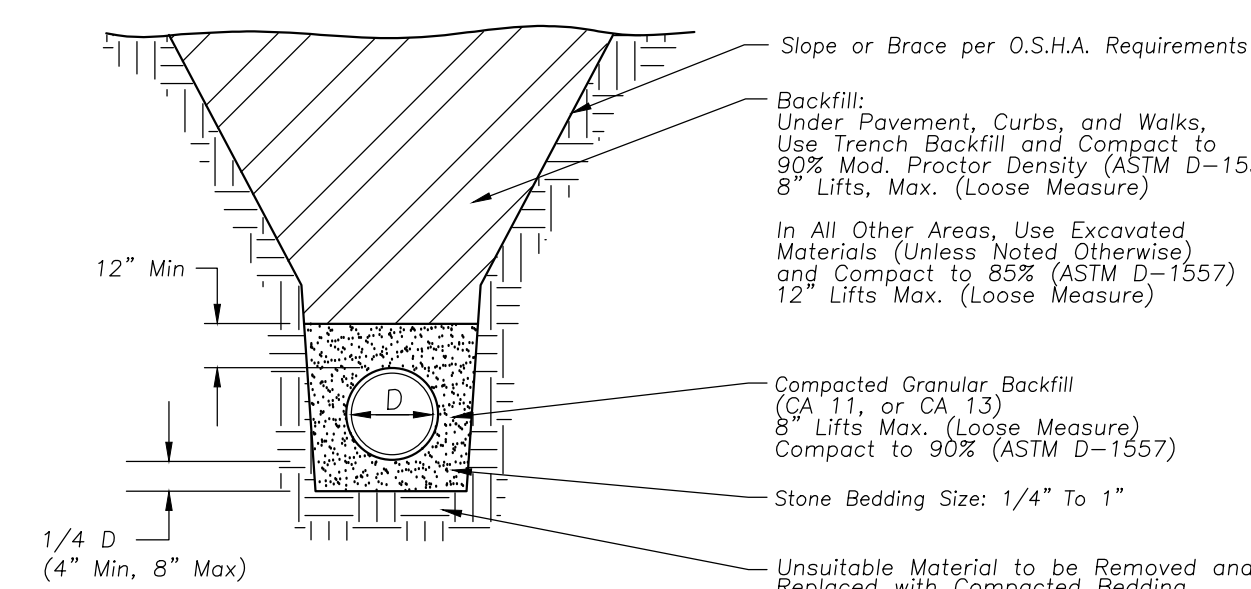
CATCH BASIN – 2' DIA.



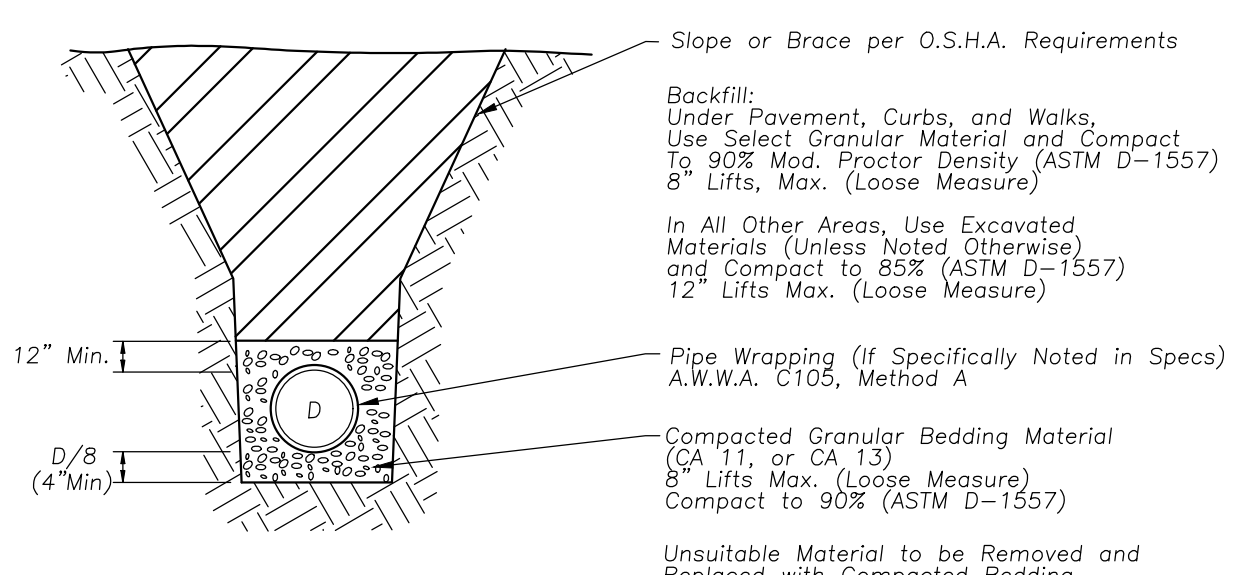
STANDARD SEWER AND WATER TRENCH SECTION



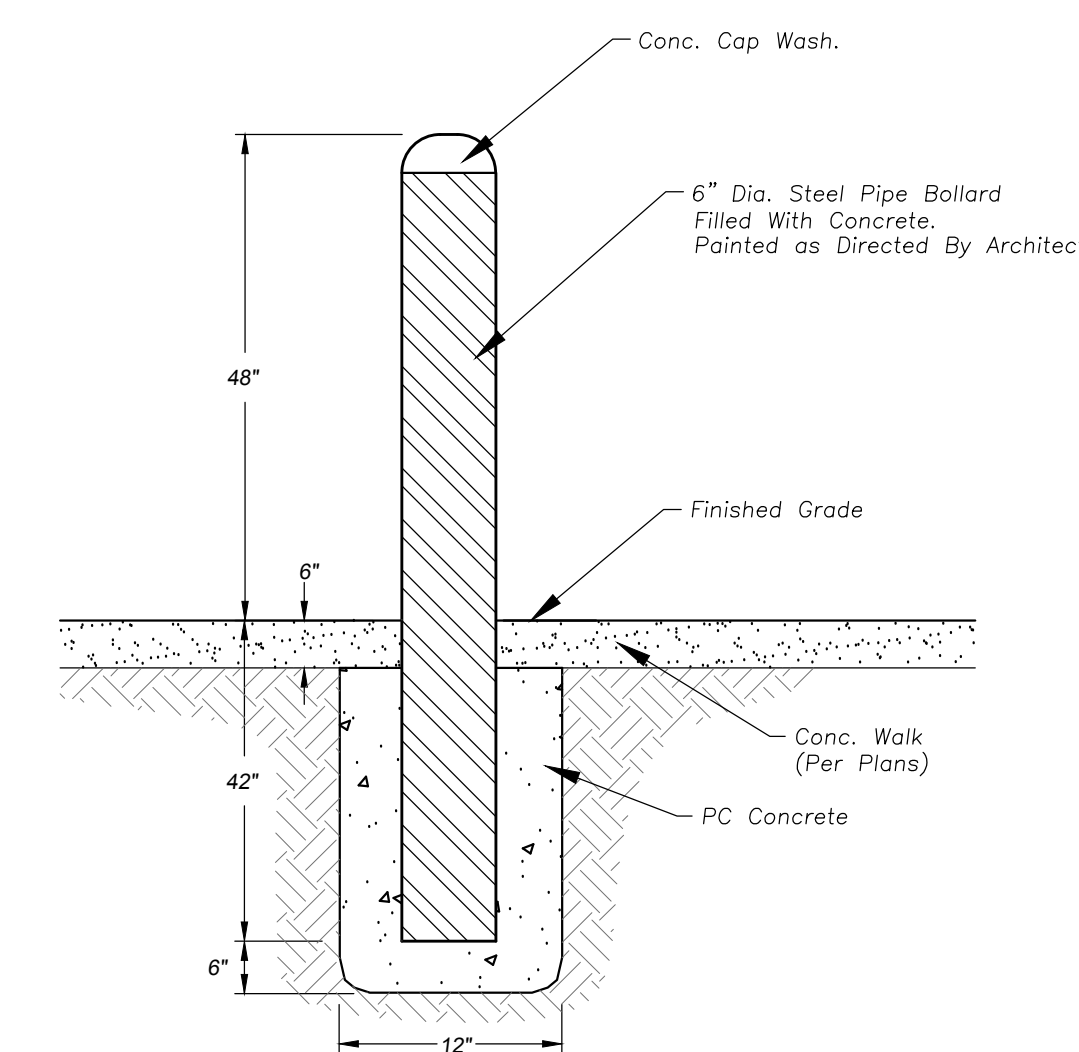
OUTLET CONTROL STRUCTURE



TRENCH SECTION-PVC PIPE



TRENCH SECTION-DUCTILE IRON PIPE



BOLLARD DETAIL



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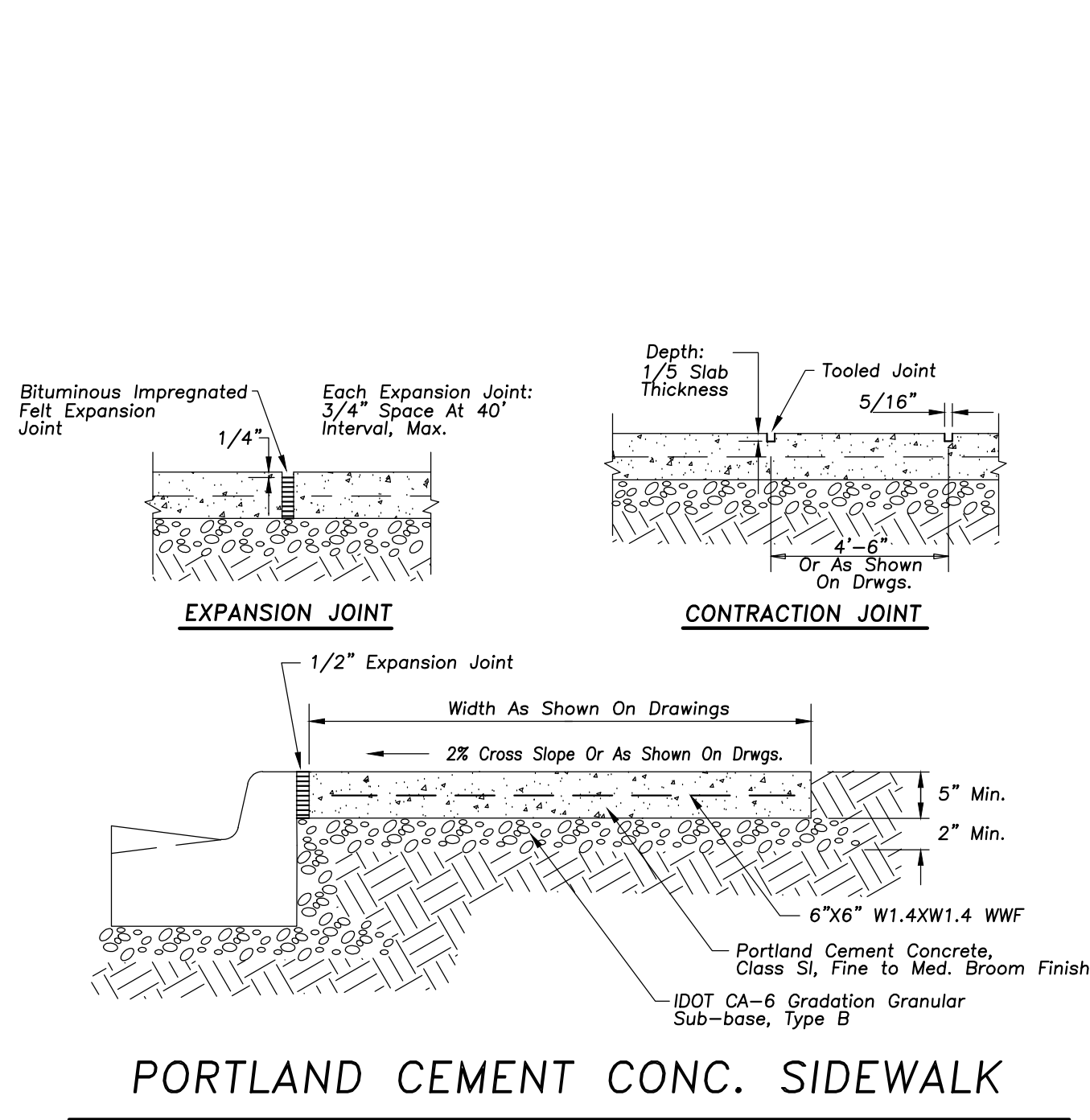
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Approved By:	KC	Project No.	

Sheet Title:

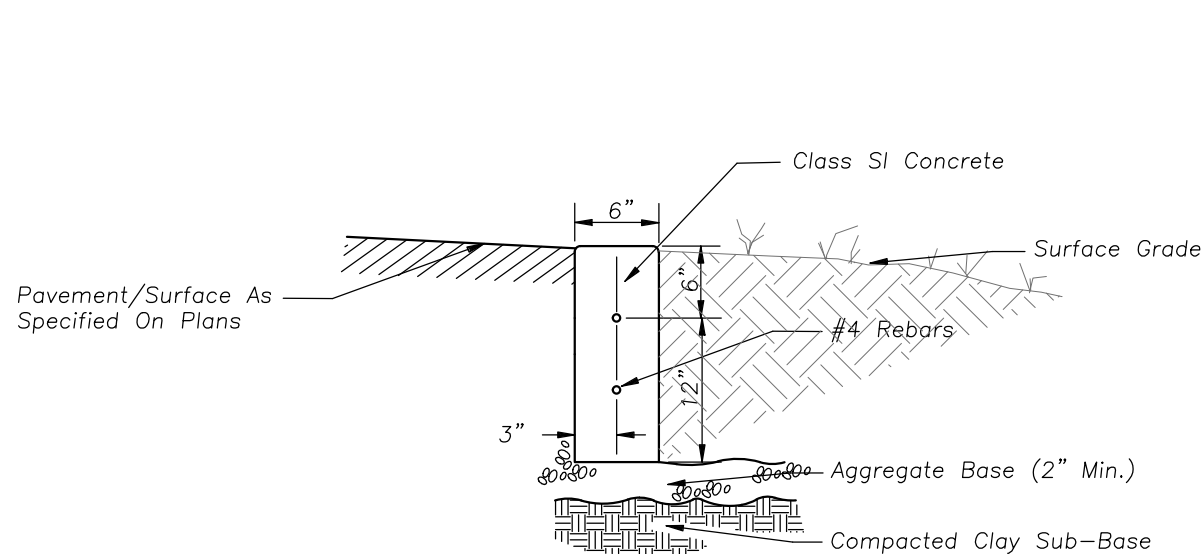
SITE WORK DETAILS

Sheet No:

C7.2



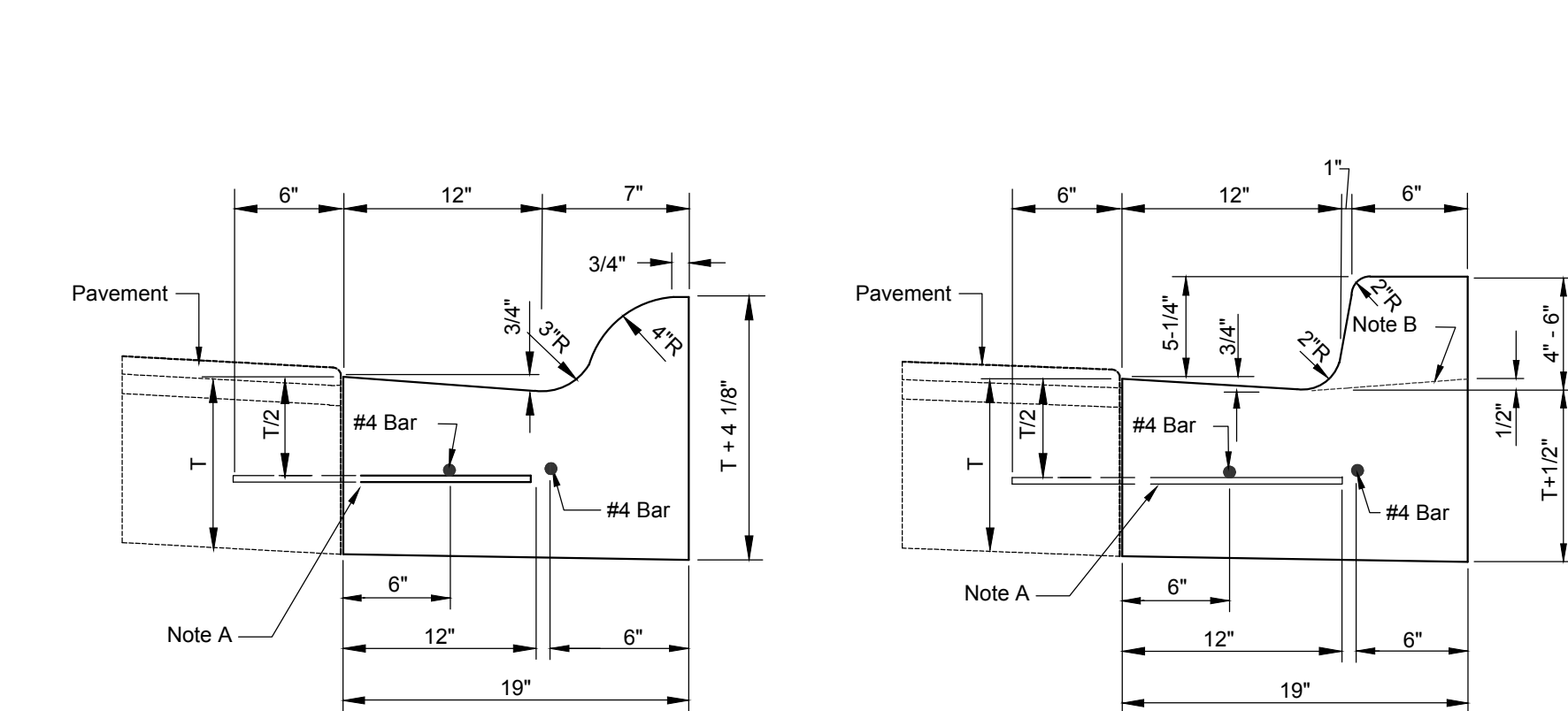
PORTLAND CEMENT CONC. SIDEWALK



Notes:

1. A 1" expansion joint shall be installed at all points of curvature for short radius (under 25 ft.) curves. Maximum expansion joint spacing is 50'. Expansion joints shall be constructed with 1" thick preformed expansion joint filler conforming to the curb and gutter cross section and shall be provided with one 1-1/4" diameter, 18" long, coated smooth dowel bar. The dowel bar shall be fitted with a cap with a pinched stop which provides a minimum of 1" of expansion.
2. Maximum Contraction/Control joint spacing shall be (20') twenty feet.

MODIFIED TYPE B PERIMETER CURB

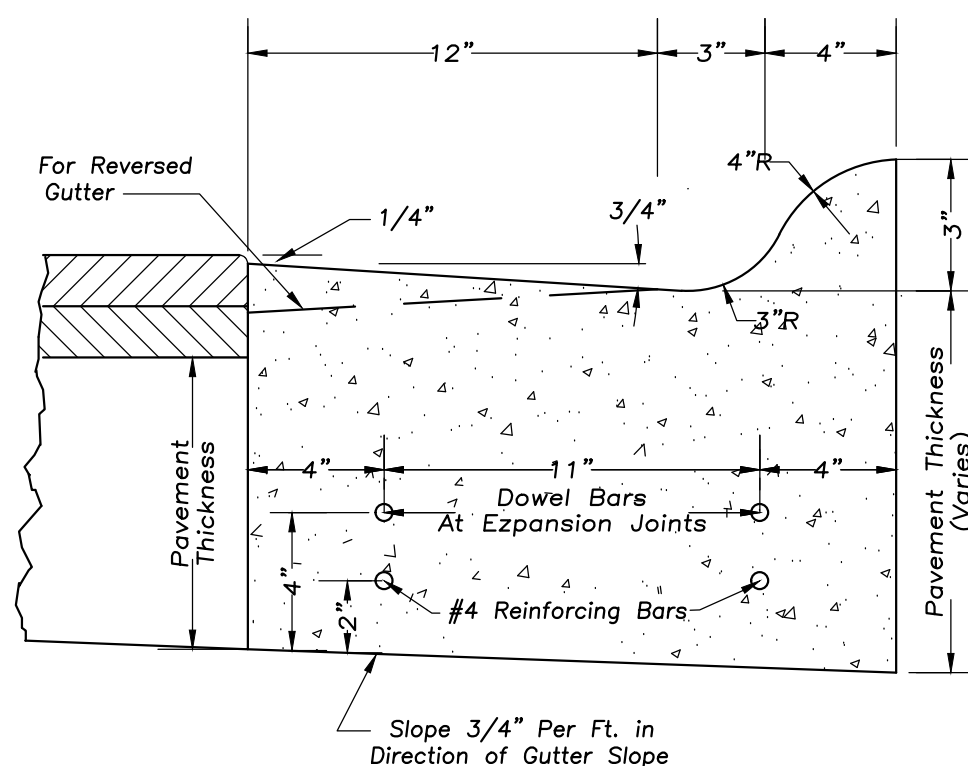


ROLL TYPE CURB

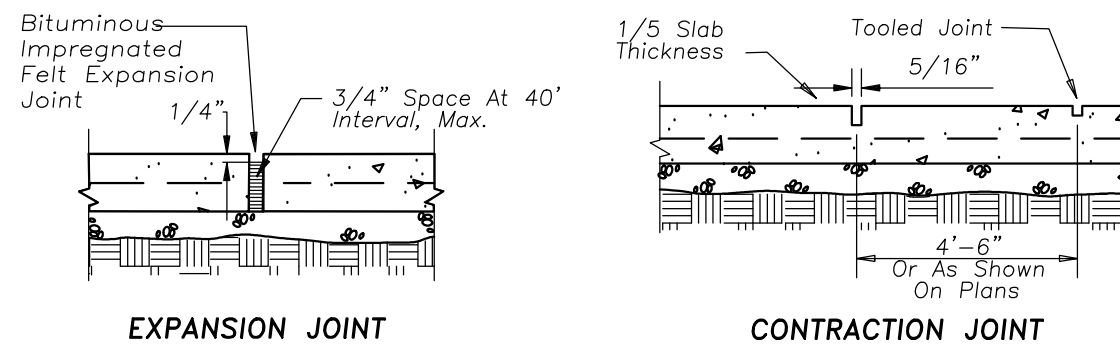
Barrier Type Curb

Notes:

1. 2-#4 Longitudinal Bars 20 Feet in Length With 12" Overlaps, At 60' Intervals, Except At Expansion Joints.
2. Expansion Joints Shall Be A Minimum Of 3/4" Preformed Expansion Material And Shall Be Provided With A 1" Dia. X 18" Coated Smooth Dowel Bar Fitted With A Cap That Will Allow A Minimum Of 1" Of Expansion.
3. Construction Joints Shall Be Template Formed Or Saw-cut (Within 24 Hours Of Placement Of The Curb) To 1/5th The Depth Of The Gutter Flag At 20ft. Intervals Or At The Joints Depth Of The Gutter Flag At 20ft. Intervals Or At The Joints In An Adjacent Concrete Pavement.

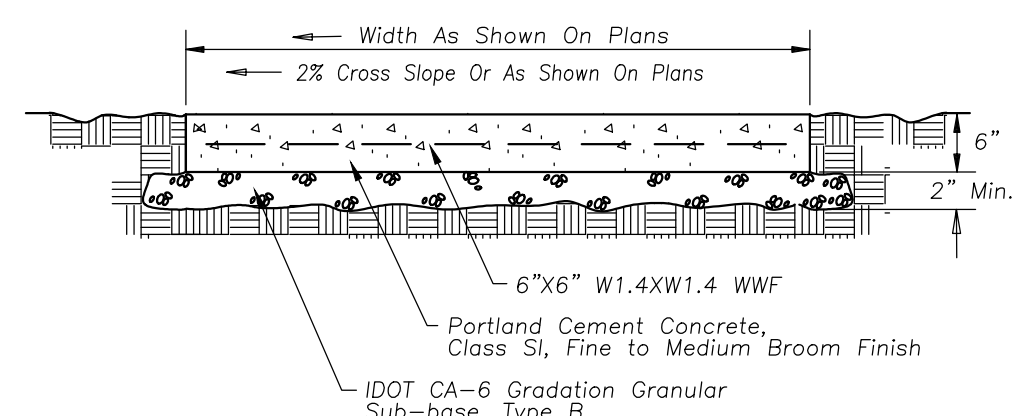


M-3.12 CURB & GUTTER

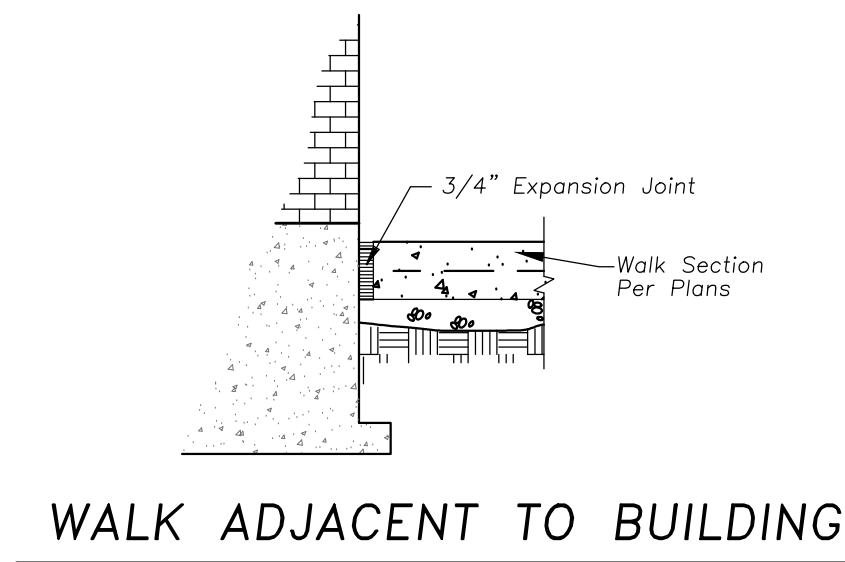


EXPANSION JOINT

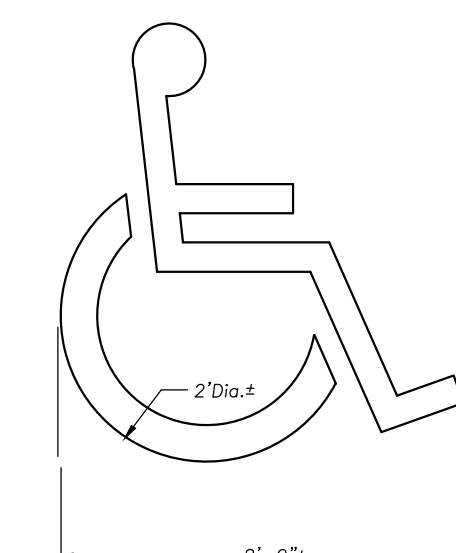
CONTRACTION JOINT



PORTLAND CEMENT CONC. SIDEWALK



WALK ADJACENT TO BUILDING



Note: All Paint Shall Be 4" Wide Yellow Lines (Typ.)

ACCESSIBLE PARKING STALL PAVEMENT MARKING

EZ Fold® 5065XY

Outdoor Backstop—5 1/4" Gooseneck Post with 6' Extension

by **DRAPER**

Specifications-EZ Fold 5065XY

Outdoor Backstop—5 1/4" Gooseneck Post with 6' Extension

Product Description
Basketball Backstop shall be the 5065XY Outdoor Backstop by Draper, Inc. Spiceland, IN

5065XY Backstop shall have a 5/4" OD heavy-wall galvanized post with an approximate 24" radius to extend the face of the backboard 60" from the front edge of the post. The backboard and goal bolt directly to the post forming a solid unit that transfers loads to the heavy-duty steel post to eliminate strain on the backboard.

XY indicates the backboard and goal. Backstop available with a variety of backboards and goals per charts below.

X = Backboard		
"X"	Part No.	Description
1	503148	Fan Fiberglass
4	503143	Fan Aluminum—Border and Target
5	503167	72" x 42" Steel with Border and Target
6	503033	72" x 42" Perforated Steel
7	503035	54" x 42" Polycarbonate
8	503034	72" x 42" Polycarbonate

Y = Goal		
"Y"	Part No.	Description
2	503572	Heavy Duty Stationary Goal with Nylon Net
3	503575	Double Rim Goal with Nylon Net
4	503579	Double Rim Goal with Chain Net
5	503078	Super Goal with Nylon Net
6	503077	Super Goal with Premium Chain Net
7	503079	Outdoor Breakaway Goal with Nylon Net

Please Mark Appropriate Selections

Select Backboard (X)

- ☐ 503148 Fan Fiberglass Backboard
- ☐ 503143 Fan Aluminum Backboard—Border and Target
- ☐ 503167 Rectangular Steel Backboard—Border and Target
- ☐ 503033 72" x 42" Rectangular Perforated Steel Backboard
- ☐ 503034 72" x 42" Rectangular Polycarbonate Backboard
- ☐ 503035 54" x 42" Rectangular Polycarbonate Backboard

Select Goal (Y)

- ☐ 503572 Heavy Duty Stationary Goal with Nylon Net
- ☐ 503575 Double Rim Goal with Nylon Net
- ☐ 503579 Double Rim Goal with Chain Net
- ☐ 503077 Super Goal with Premium Chain Net
- ☐ 503078 Super Goal with Nylon Net
- ☐ 503079 Outdoor Breakaway Goal with Nylon Net

Optional Goalpost Pads

- ☐ 506985 Outdoor Backstop Pad

PROJECT: _____

ARCHITECT: _____

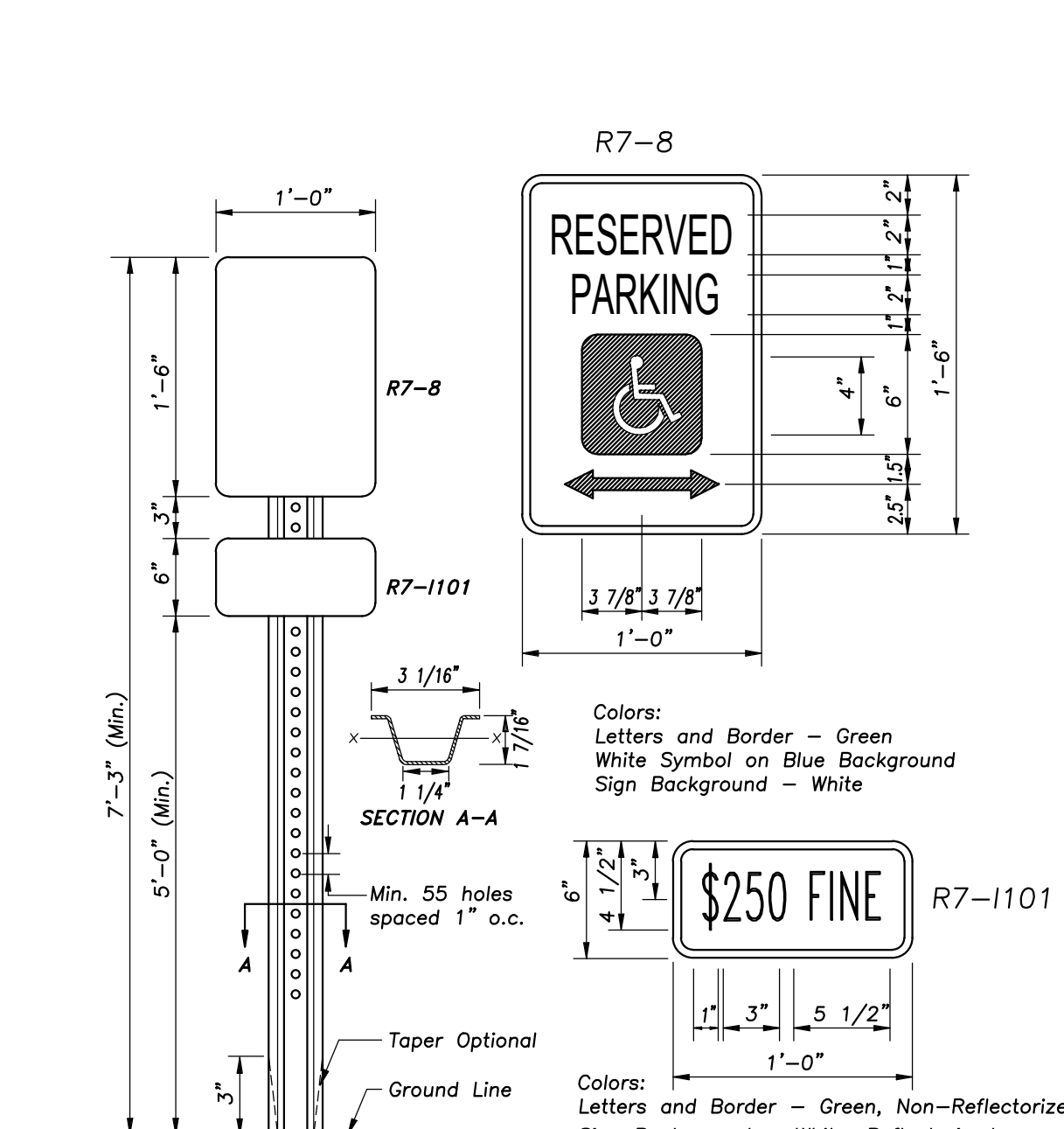
CONTRACTOR: _____

SUPPLIER: _____

DATE: _____ **REVISED:** _____

DRAPER

411 S. Pearl St., Spiceland, IN 47385 USA 765-987-7999
www.draperinc.com 1 fax 765-987-7142
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Notes: Dimensions Shown For Cross Sections Are Minimum.

All Holes Are 3/8" Ø. Minimum Section Modulus About The X-X Axis Of The Post Shall Be 0.223 In.

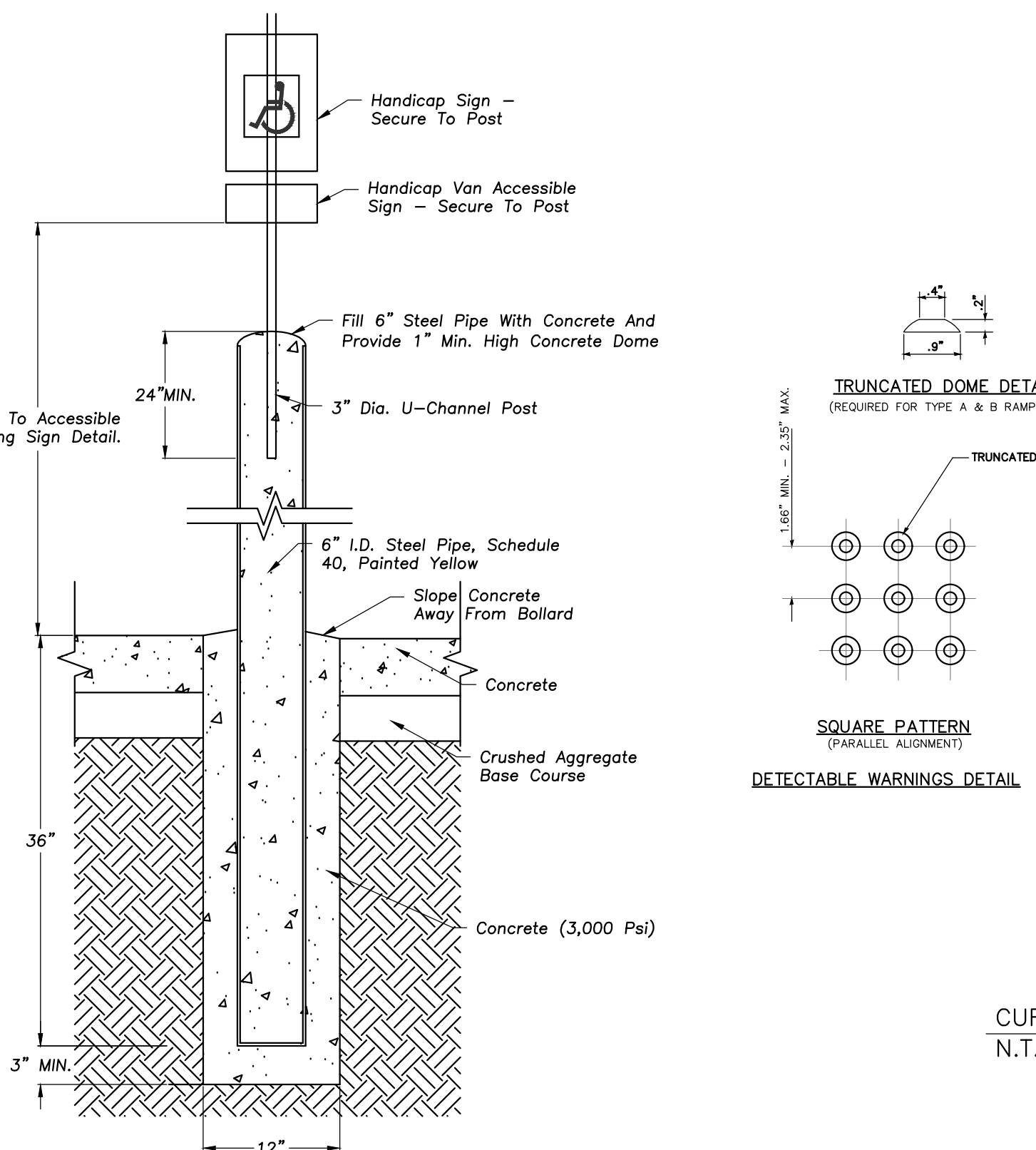
For Posts In Which Holes Are Punched Or Drilled For More Than Half Their Length, The Section Modulus Shall Be Computed For The Net Section.

3'-6" Post Bury Depth.

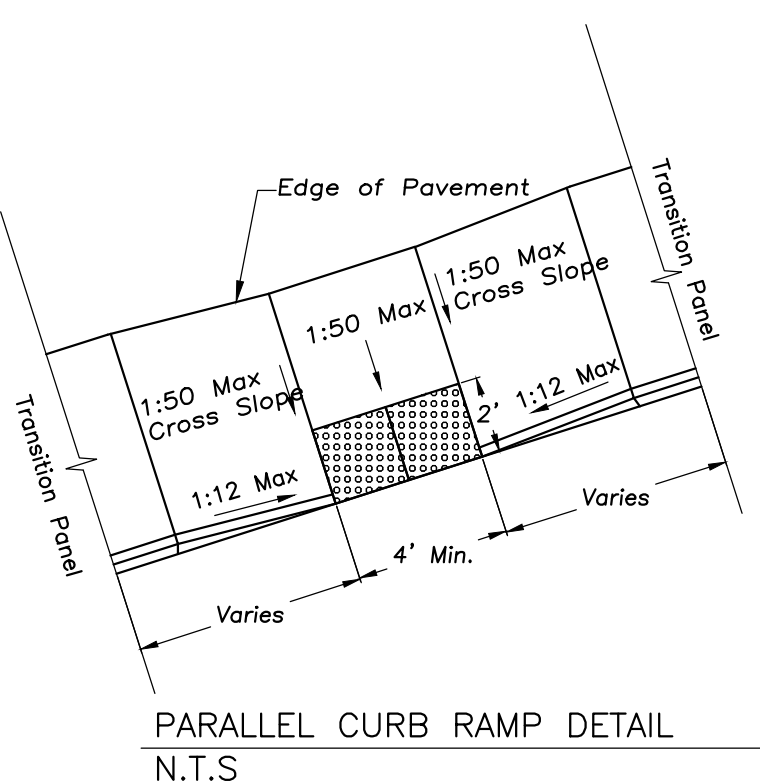
Post Shall Weigh 2.00 Lb/Tl Length.

One In Six Accessible Parking Spaces Must Be Van Accessible. Minimum Of One, Van Accessible Spaces Have The Same Requirement Except They Must Also Have 96" Of Clear Vertical Space.

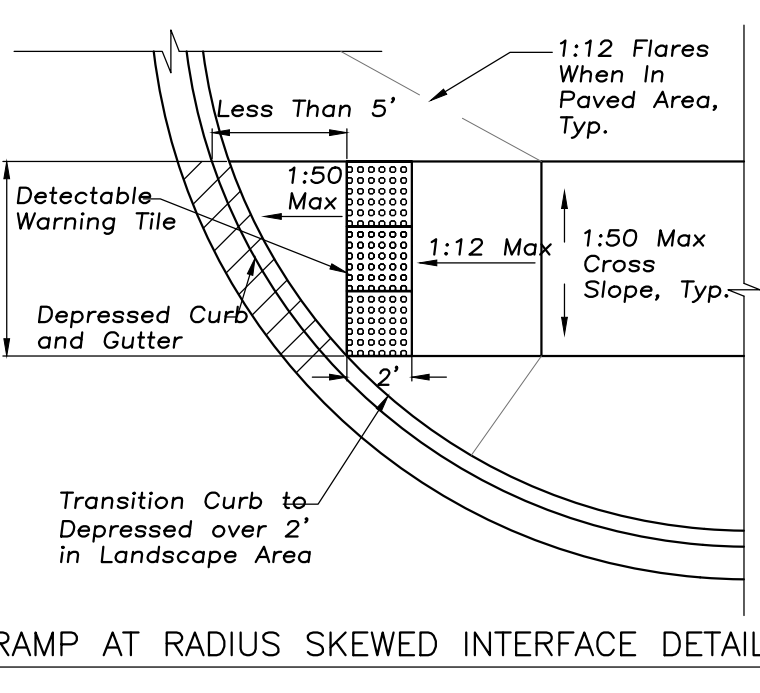
ACCESSIBLE PARKING SIGN IN BOLLARD



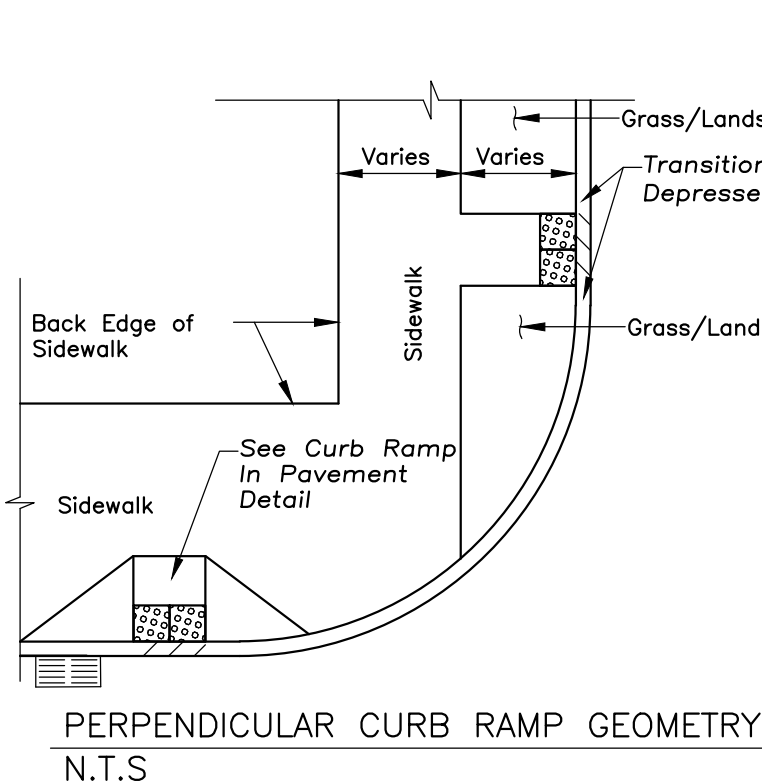
ACCESSIBLE RAMPS FOR SIDEWALKS



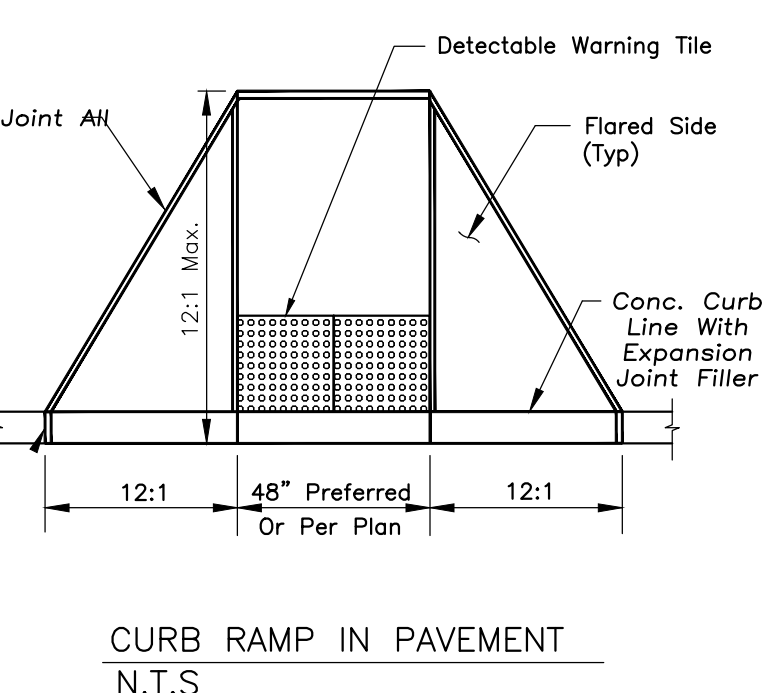
PARALLEL CURB RAMP DETAIL



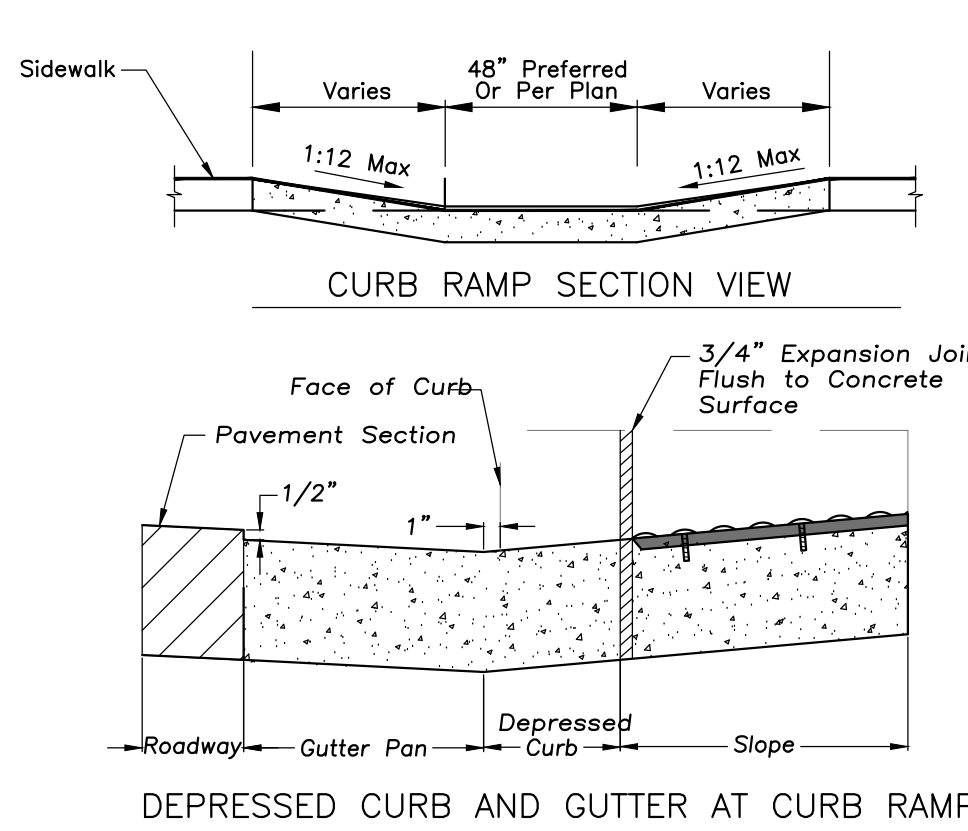
CURB RAMP AT RADIUS SKEWED INTERFACE DETAIL



PERPENDICULAR CURB RAMP GEOMETRY



CURB RAMP IN PAVEMENT



CURB RAMP SECTION VIEW

DEPRESSED CURB AND GUTTER AT CURB RAMP

GENERAL NOTES

Description:
This work shall consist of constructing sidewalk curb ramps with detectable warnings in compliance with the Americans with Disabilities Act, Accessibility Guidelines (ADAAG). The detectable warnings shall consist of an area of truncated domes that provide both visual and tactile cues to pedestrians who are about to enter into traffic.

Construction Requirements:

1. Ramps Shall Be Located As Shown On Plans In Alignment With Normal Sidewalk And/or Crosswalk And 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 Flared 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 (p.j.f) Is Installed Against 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 comply 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 24x48 36x48 36x60 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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EXPIRES: 04/30/2017

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ADDITION AND RENOVATIONS

1315 E. Miner Street
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Expiration Date: _____

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1	12/14/16	ISSUE FOR BID & PERMIT
2	01/05/17	ADDENDUM 2
3	01/24/17	REVISED PARKING LOT LAYOUT
4	01/27/17	ISSUED FOR CONSTRUCTION

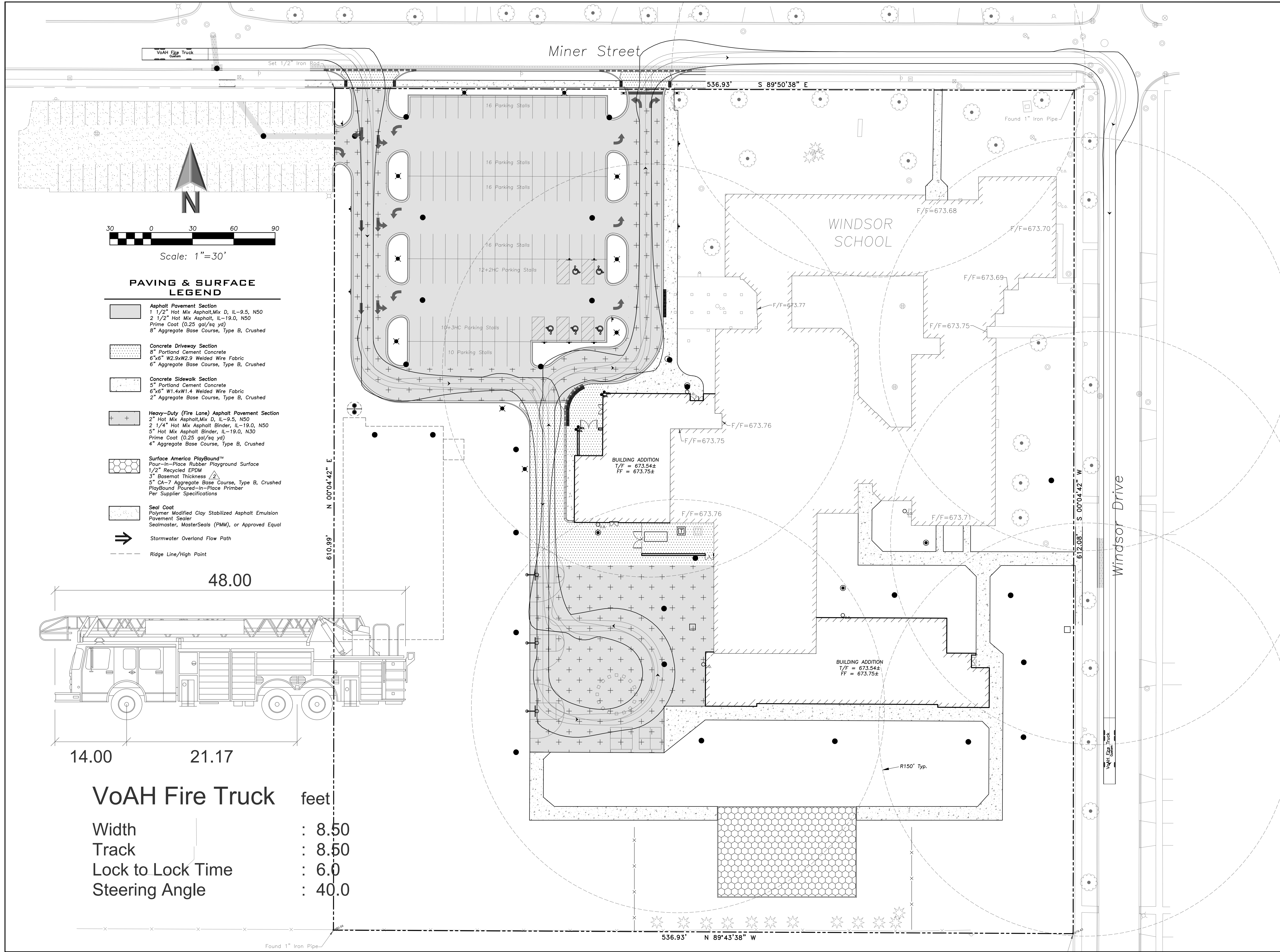
Design By: JC Date: 12/14/16
Approved By: KC Project No. _____

Sheet Title:

SITE WORK DETAILS

Sheet No:

C7.3



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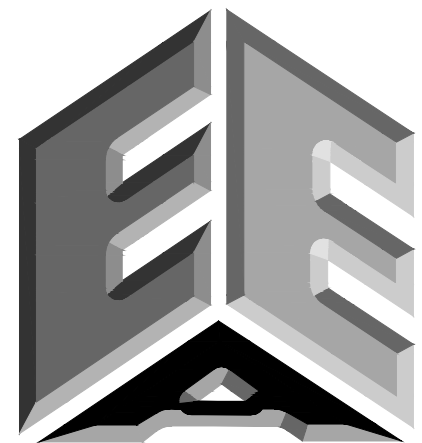
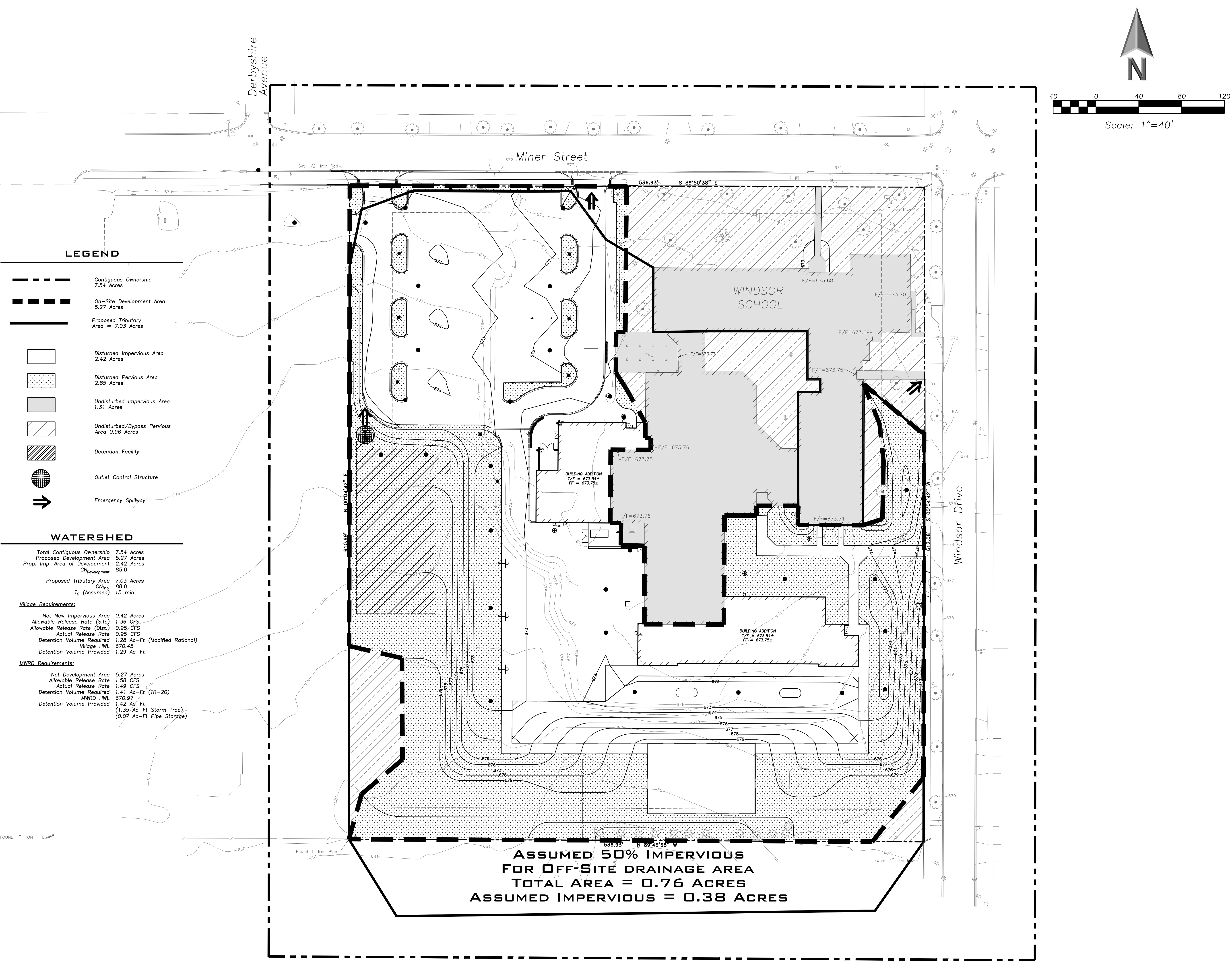
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Approved By:	KC	Project No.	

Sheet Title:
**AUTOTURN
EXHIBIT - FIRE
TRUCK**

Sheet No:
CX1.1



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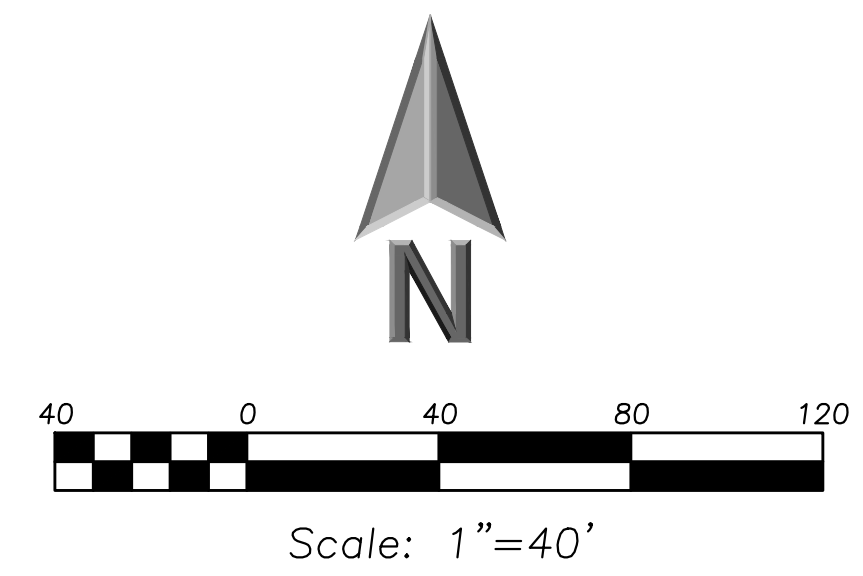
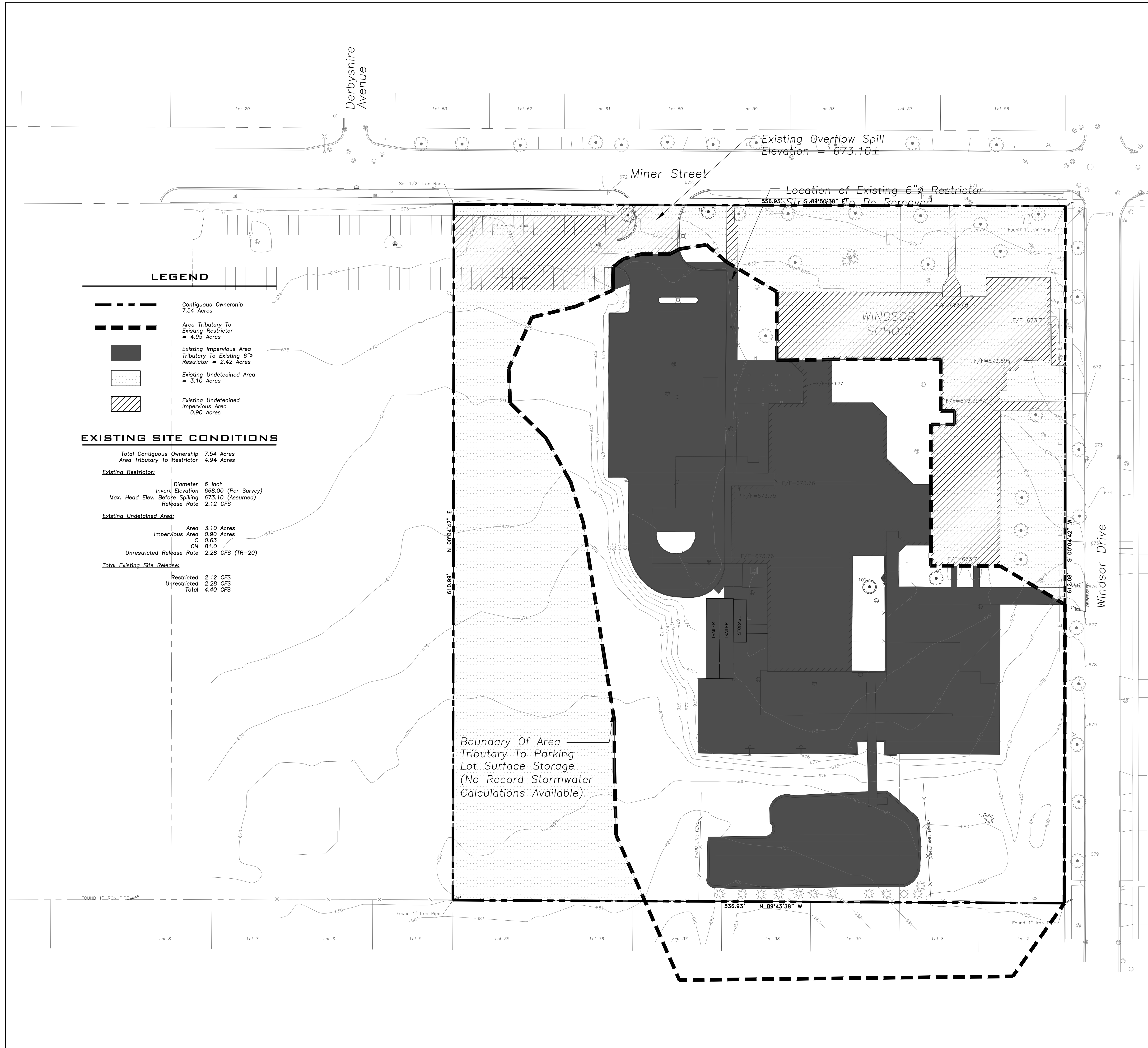
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**PROJECT
DISTURBANCE**

Sheet No:

CX2.1





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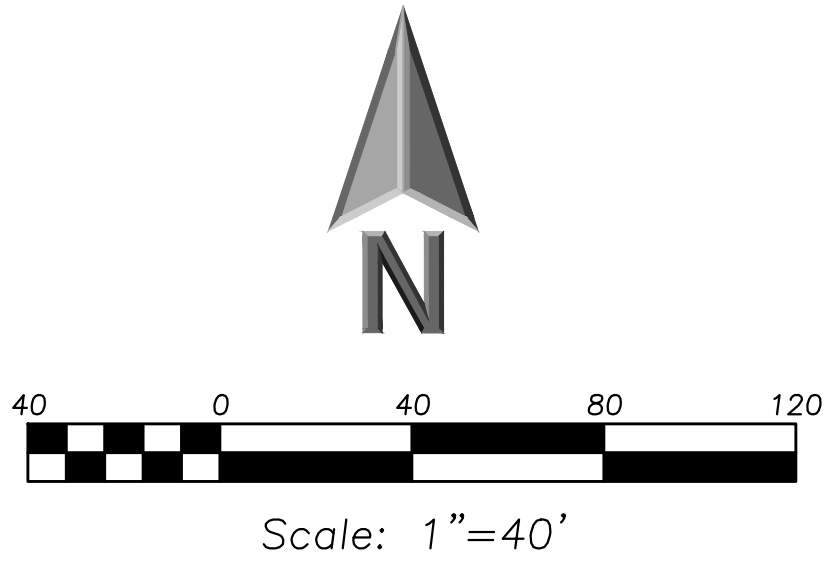
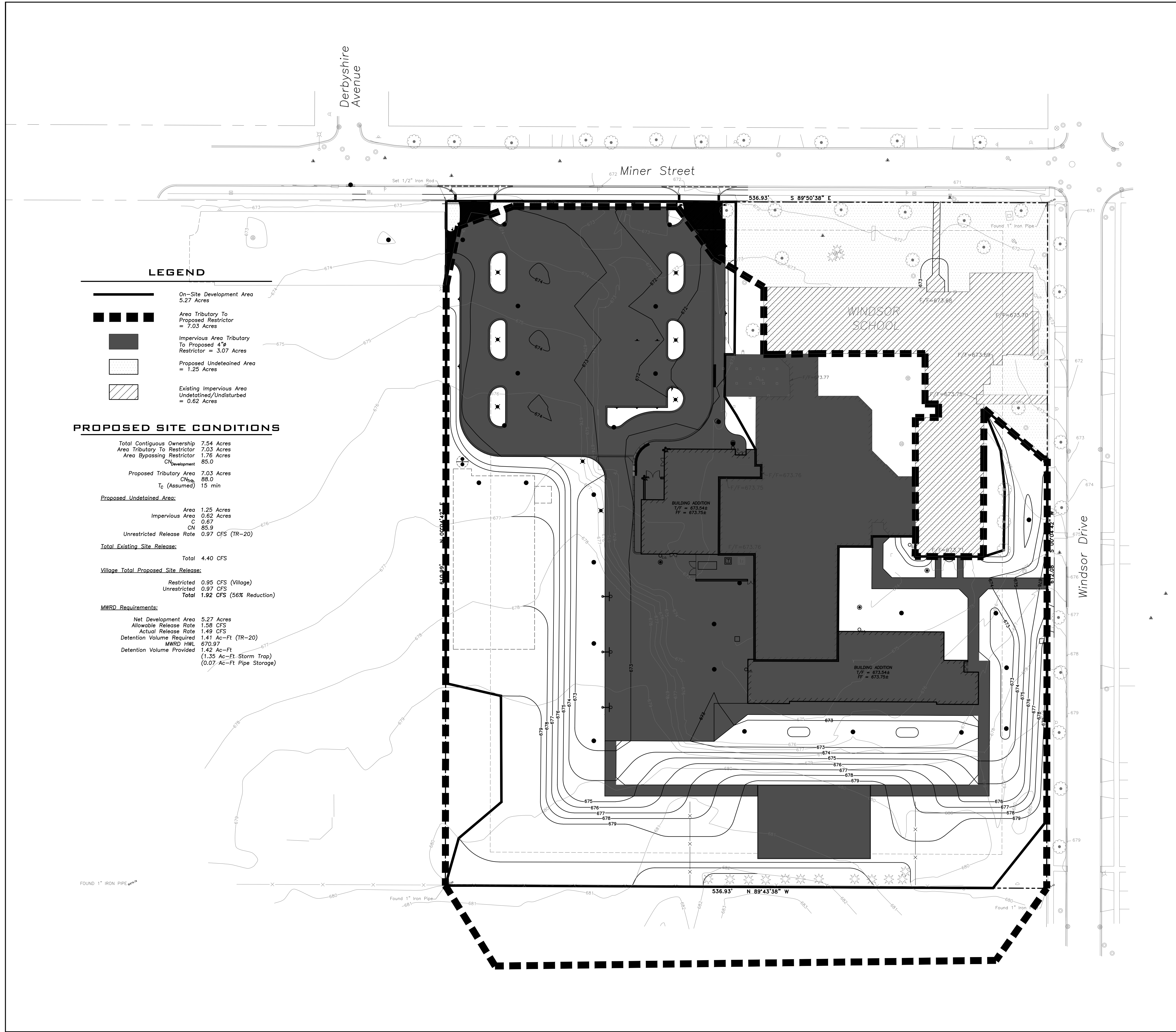
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**DRAINAGE
EXHIBIT -
EXISTING
CONDITIONS**

Sheet No:

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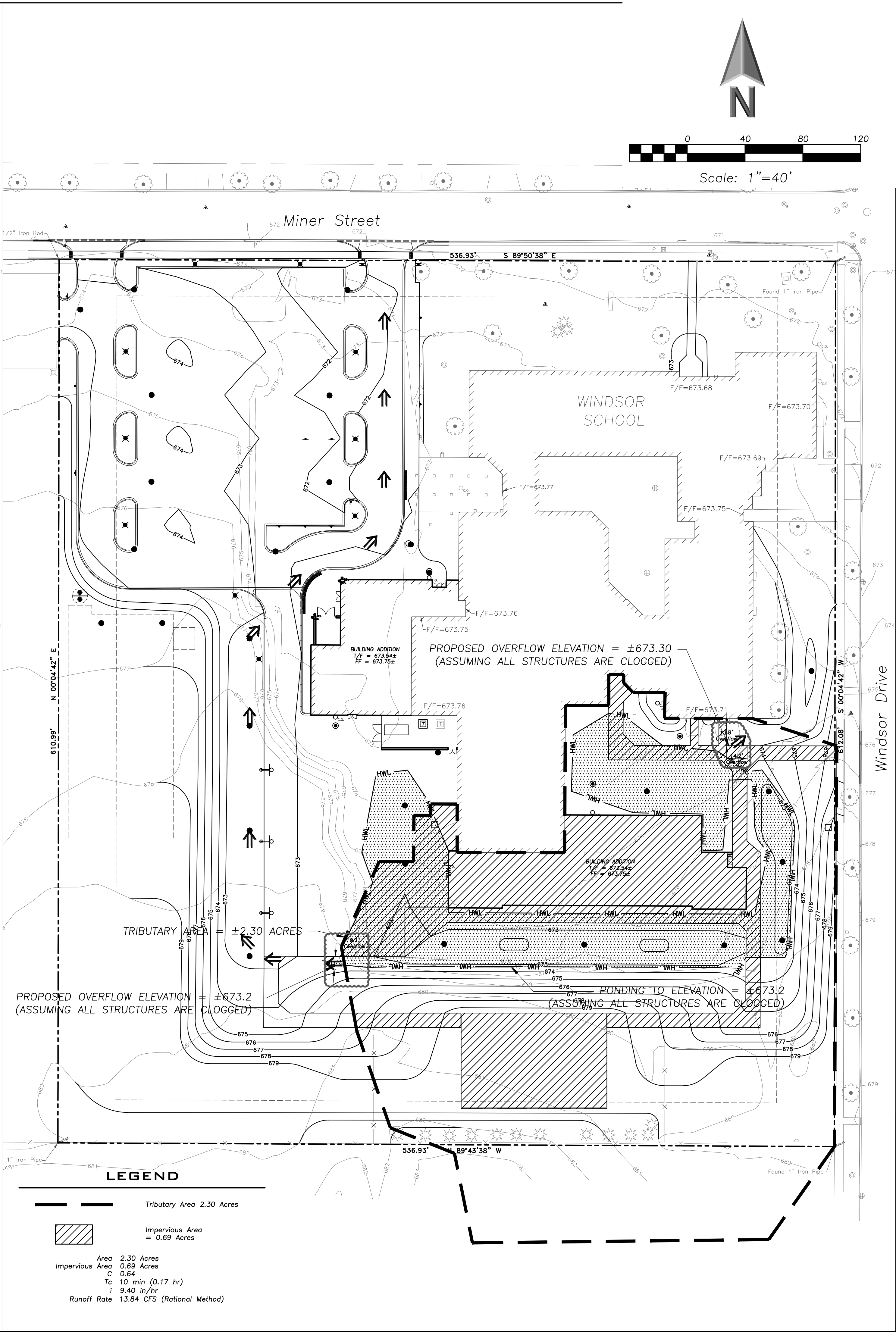
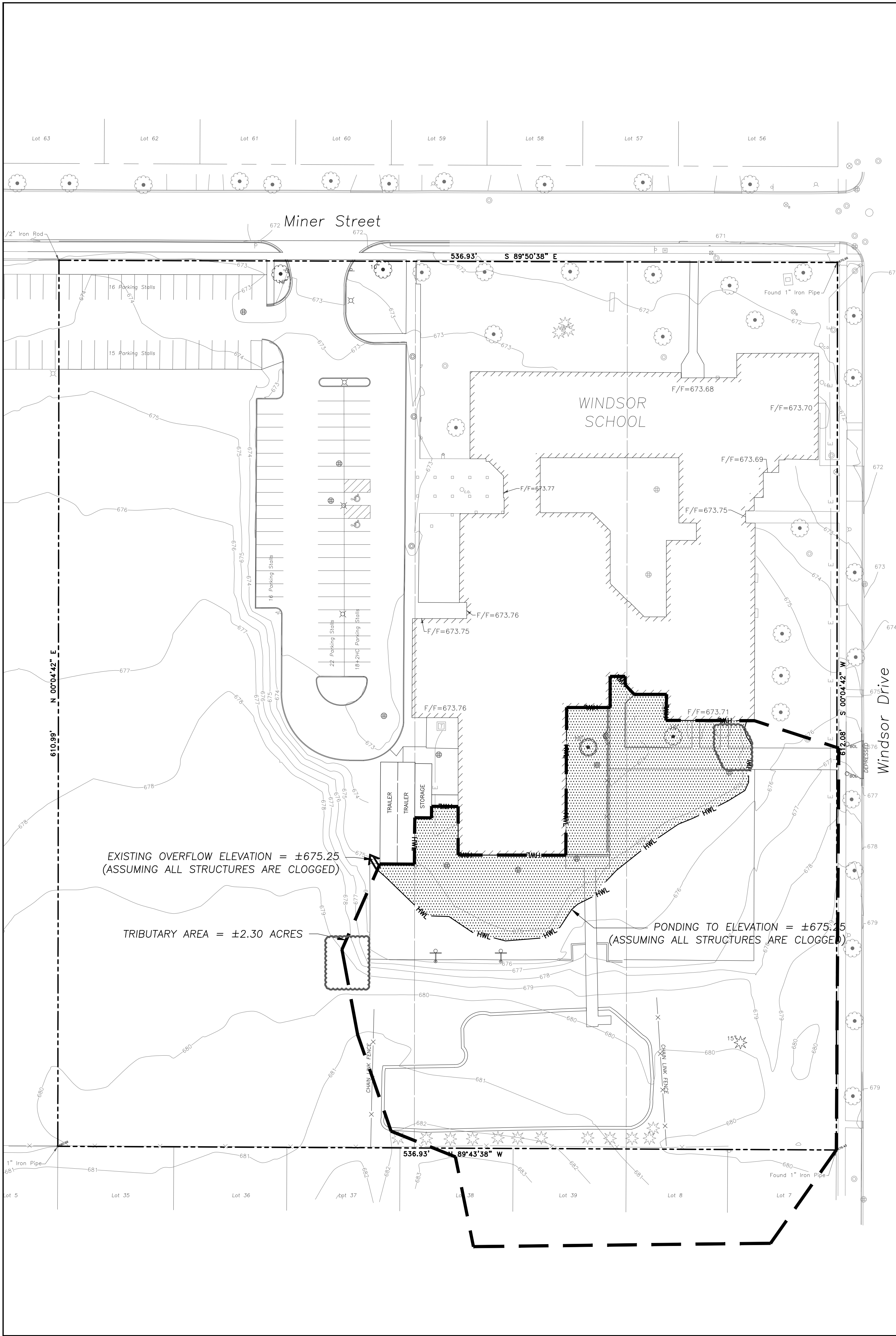
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Sheet Title: **DRAINAGE**
EXHIBIT -
PROPOSED
CONDITIONS

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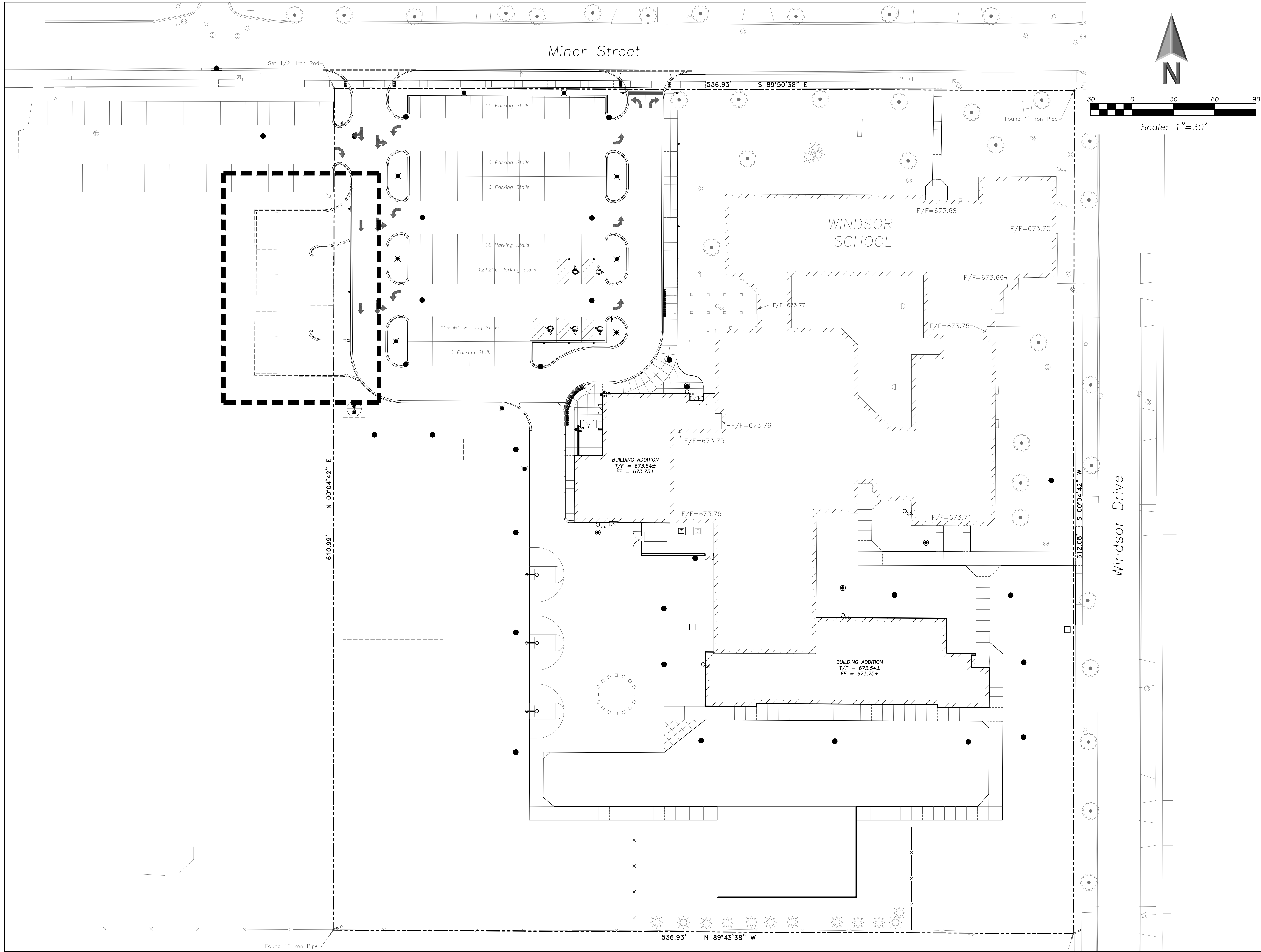
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Sheet Title:

**EXISTING &
PROPOSED
OVERLAND FLOW
ROUTE**

Sheet No:

CX3.3



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Sheet Title:

**LAND BANK
PARKING**

Sheet No:

CX4.1