EXTRA SPACE STORAGE, INC.

ESS NAPERVILLE STORAGE #1259

1432 W OGDEN AVE. NAPERVILLE, IL 60563

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
G001	TITLE SHEET
C100	DEMOLITION PLAN
C200	SITE PLAN
C300	UTILITY PLAN
C301	STORM SEWER PROFILE VIEWS
C400	GRADING PLAN
C401	STORM DRAINAGE PLAN AND SECTION VIEWS
C402	STORM DRAINAGE PLAN AND SECTION VIEWS
C500	PRE-CONSTRUCTION EROSION CONTROL PLAN
C501	CONSTRUCTION EROSION CONTROL PLAN
C502	POST CONSTRUCTION EROSION CONTROL PLAN
C503	EROSION CONTROL DETAILS
C504	SWPPP NOTES
C600	CONSTRUCTION DETAILS
C601	CONSTRUCTION DETAILS
C602	CONSTRUCTION DETAILS
L100	TREE REMOVAL AND PROTECTION PLAN
L200	LANDSCAPE PLAN
L201	LANDSCAPE PLAN DETAILS

REVISIONS		
REVISION NUMBER	REVISION DESCRIPTION	DATE
2	CITY REVIEW COMMENTS	8/22/2024

PLANS PREPARED FOR:

EXTRA SPACE STORAGE
2795 EAST COTTONWOOD PARKWAY #400
SALT LAKE CITY, UTAH 84121
CONTACT PERSON: CLINT KLEPPE
EMAIL: CKLEPPE@EXTRASPACE.COM

PLANS PREPARED BY:

RQAW CORPORATION
8770 NORTH STREET, SUITE 110
FISHERS, INDIANA 46038
TELEPHONE: (317) 588-1772
CONTACT PERSON: AARON CROW
EMAIL: acrow@rqaw.com

OPERATING AUTHORITIES

WATER
CITY OF NAPERVILLE
400 S. EAGLE ST.
NAPERVILLE, IL 60540
TELEPHONE: (630) 420-6187

WASTEWATER
CITY OF NAPERVILLE
400 S. EAGLE ST.
NAPERVILLE, IL 60540
TELEPHONE: (630) 420-6187

STORM WATER
CITY OF NAPERVILLE
180 FORT HILL DRIVE
NAPERVILLE, IL 60540
TELEPHONE: (630) 420-6095

ELECTRIC
CITY OF NAPERVILLE
1392 AURORA AVENUE
NAPERVILLE, IL 60540
TELEPHONE: (630) 305-5319

BUILDING PERMITS AND INSPECTIONS
CITY OF NAPERVILLE
400 S. EAGLE ST.
NAPERVILLE, IL 60540
TELEPHONE: (630) 420-6100
EMAIL: BUILDINGPERMITS@NAPERVILLE.IL.US

3

CONTACT US

CALL 811 OR (800)892-0123
to place a locate request

3275 Executive Drive
Joliet, IL 60431

Administrative Offices:
(815)741-5000 (not for locates)
(815)741-5597 (fax)
info@illinois1call.com

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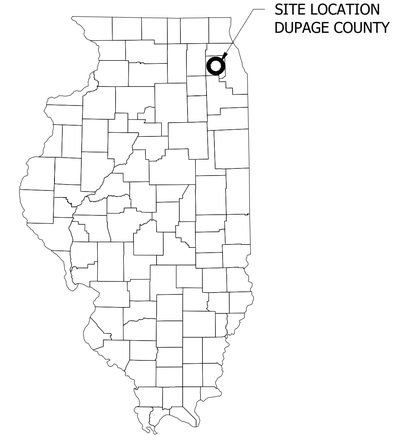

SITE VICINITY MAP

NOT TO SCALE

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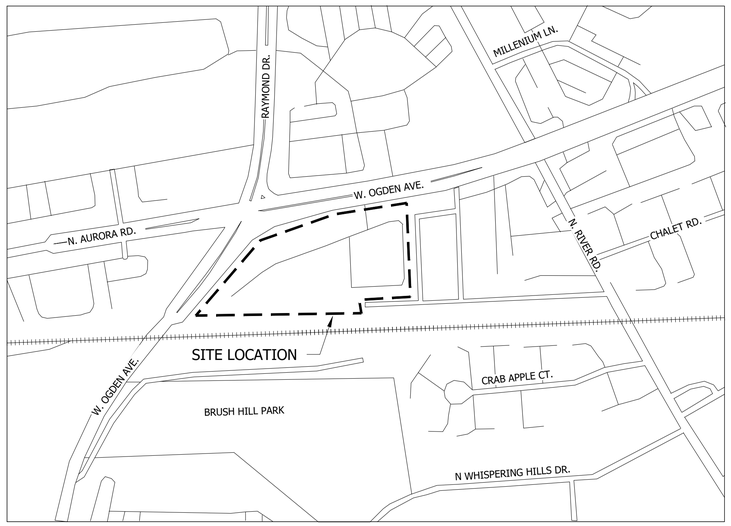

SITE LOCATION MAP

NOT TO SCALE

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RQAW
DCCM

PERMIT SET

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ESS NAPERVILLE
STORAGE #1259
1432 W OGDEN AVE. NAPERVILLE, IL 60563

#	Revision	Date
2	CITY REVIEW COMMENTS	08/22/24
3	CITY REVIEW COMMENTS	10/31/24

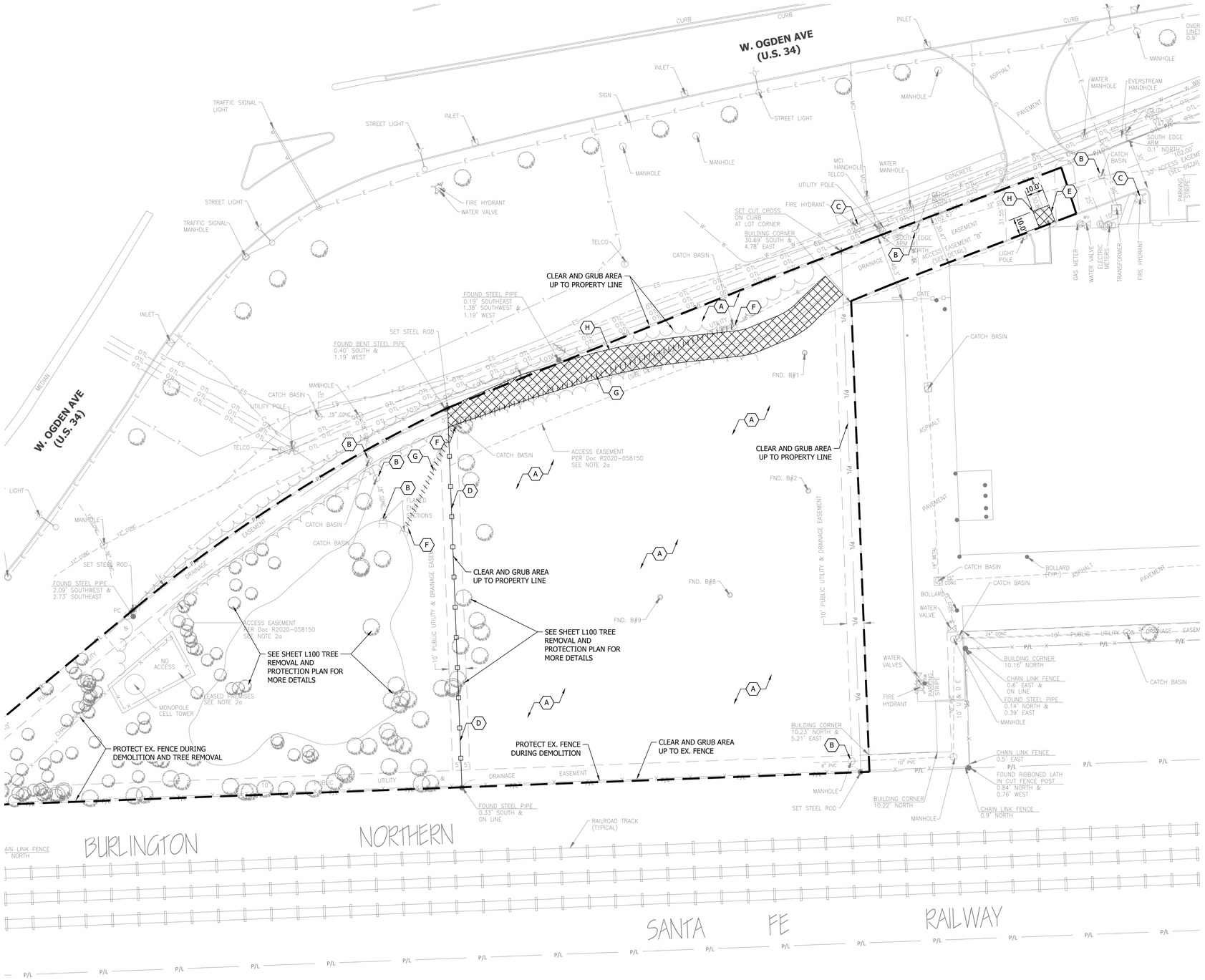
Project #: 23-700-300-1
Designed By: MDL
Drawn By: RLH
Checked By: ALC
Date: 10.31.2024

LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

TITLE SHEET

G001

3



DEMOLITION PLAN LEGEND

P/L	PROPERTY LINE
	PROPOSED CONSTRUCTION LIMITS
	EXISTING STORM SEWER
W	EXISTING WATER LINE
G	EXISTING GAS LINE
T	EXISTING UNDERGROUND TELEPHONE LINE
E	EXISTING UNDERGROUND ELECTRIC LINE
X	EXISTING FENCE
OTL	EXISTING OVERHEAD TELEPHONE LINE
/ / / / / / / / / /	DEMOLITION LINE
	EXISTING FIRE HYDRANT
	EXISTING WATER MANHOLE
	EXISTING WATER VALVE
	EXISTING ELECTRIC METER
	EXISTING STORM SEWER STRUCTURE
	EXISTING LIGHT POLE
	EXISTING TREE
	EXISTING GAS METER

KEY NOTES

- (A) CLEAR AND GRUB WOODED AREA
- (B) EXISTING STORM SEWER STRUCTURE TO REMAIN. PROTECT AND MAINTAIN DURING CONSTRUCTION
- (C) EXISTING FIRE HYDRANT TO REMAIN. PROTECT AND MAINTAIN DURING CONSTRUCTION
- (D) REMOVE EXISTING FENCE
- (E) DIRECTIONAL DRILL RECEIVING PIT
- (F) REMOVE EXISTING STORM SEWER STRUCTURE
- (G) REMOVE EXISTING STORM SEWER PIPE
- (H) DEMOLITION LIMITS (ASPHALT, GRAVEL)

DEMOLITION PLAN NOTES

1. THE CONTRACTOR SHALL REMOVE ALL MUD, DIRT, GRAVEL AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS. THE CONTRACTOR SHALL UTILIZE MEASURES TO CONTROL DUST AT ALL TIMES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE MUNICIPALITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING DEMOLITION.
4. CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS, AND OTHER ADJACENT OCCUPIED STRUCTURES.
5. ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT, UNLESS SPECIFIED OTHERWISE.
6. UTILITIES ARE SHOWN TO BE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY(S) COMPANY FOR THE REMOVAL, RELOCATION, AND/OR DEMOLITION OF ALL EXISTING UTILITIES.
7. ALL DEMOLISHED MATERIALS SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE UNLESS NOTED OTHERWISE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER DRAINAGE IN DEMOLITION AREAS.
9. THE USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
10. PROMPTLY REPAIR ANY DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS AT NO EXTRA COST TO THE OWNER.
11. DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO DEMOLITION ITEMS INDICATED ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATE ITEMS WHICH INTERFERE WITH NEW CONSTRUCTION.
12. THE OWNER/DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING QUALITY CONTROL AT ALL TIMES DURING THE CONSTRUCTION PROCESS.
13. CONTACT OWNER IMMEDIATELY IF CONTAMINATED SOILS ARE ENCOUNTERED DURING CONSTRUCTION. CONTAMINATED SOILS MUST BE HAULED OFF-SITE AND PROPERLY DISPOSED.

RQAW

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PERMIT SET

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LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

40' 0 40' 80'
GRAPHIC SCALE

N

DEMOLITION PLAN

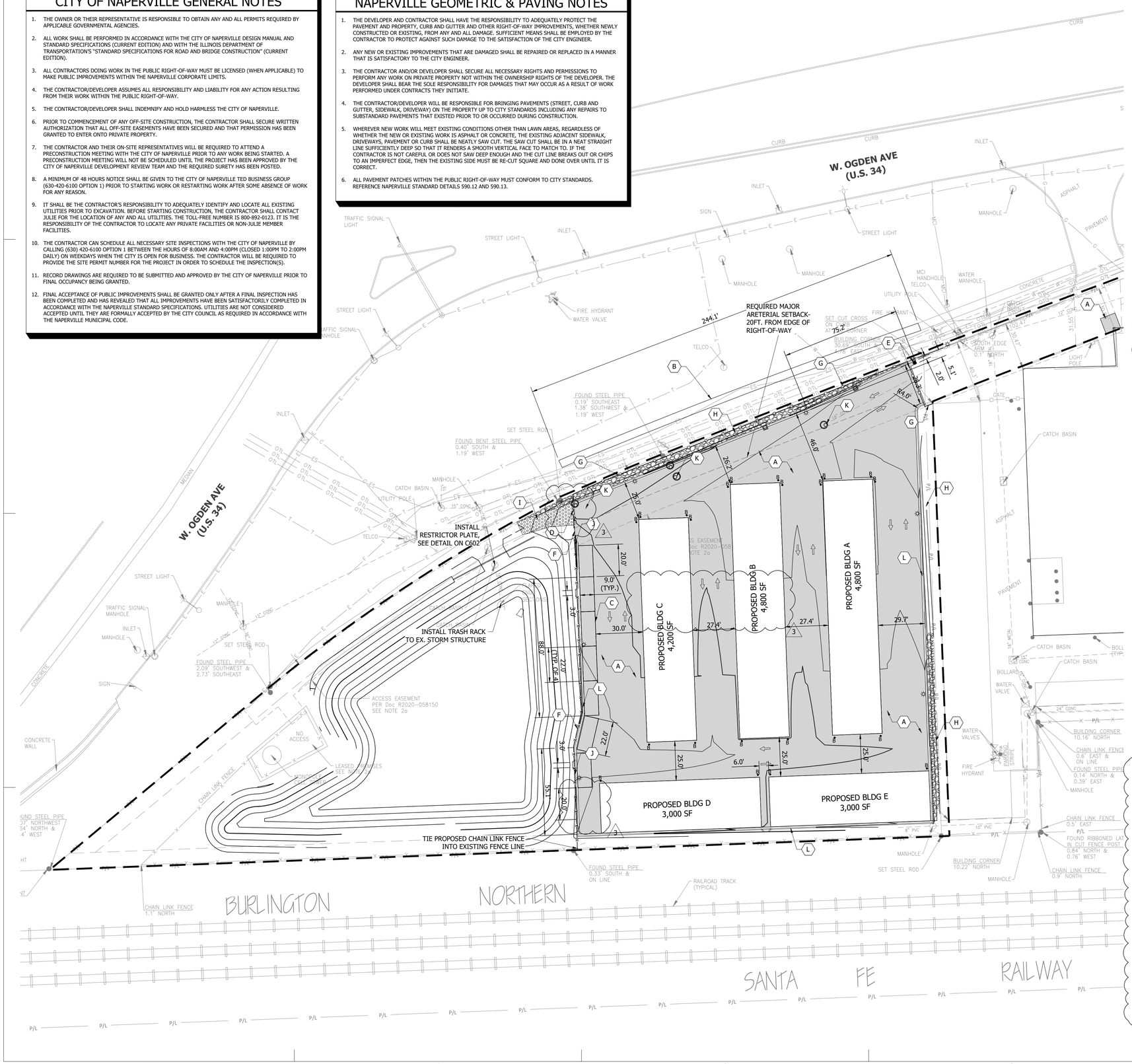
C100

CITY OF NAPERVILLE GENERAL NOTES

1. THE OWNER OR THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).
3. ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
4. THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
5. THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.
6. PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.
7. THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRECONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRECONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.
8. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6100 OPTION 1) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
10. THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6100 OPTION 1 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).
11. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
12. FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.

NAPERVILLE GEOMETRIC & PAVING NOTES

1. THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.
2. ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.
3. THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.
4. THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.
5. WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE EXISTING ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS CORRECT.
6. ALL PAVEMENT PATCHES WITHIN THE PUBLIC RIGHT-OF-WAY MUST CONFORM TO CITY STANDARDS. REFERENCE NAPERVILLE STANDARD DETAILS 590.12 AND 590.13.



SITE PLAN LEGEND

P/L	PROPERTY LINE
	PROPOSED CONSTRUCTION LIMITS
	PROPOSED STORM SEWER
E	PROPOSED UNDERGROUND ELECTRIC LINE
X	PROPOSED FENCE
EXISTING FIRE HYDRANT	EXISTING WATER MANHOLE
EXISTING WATER VALVE	EXISTING ELECTRIC METER
EXISTING STORM SEWER STRUCTURE	EXISTING LIGHT POLE
EXISTING GAS METER	EXISTING TREE

KEY NOTES

- (A) ASPHALT, 1.5" LIGHT DUTY PAVEMENT
- (B) CONCRETE SIDEWALK TO BE CONSTRUCTED BY OTHERS
- (C) PARKING STRIPING 4" SOLID WHITE LINE
- (D) PROPOSED MANUAL ROLLER GATE WITH PADLOCK
- (E) ESS FACILITIES STANDARD 6' ENTRY GATE AND KEYPAD BOLLARD
- (F) PROPOSED 6' VINYL COATED CHAIN LINK FENCE SEE DETAIL ON SHEET C602
- (G) PROPOSED 6' IRON FENCE, MATCH EXISTING ON BUILDING FRONTAGE TO EAST SEE DETAIL ON SHEET C602
- (H) PROPOSED REVETMENT RIPRAP
- (I) PROPOSED GRAVEL FOR ACCESS DRIVE
- (J) SNOW GATE, 8' WIDE TO MATCH ADJACENT FENCING MATERIAL FOR MANUALLY OPERATED GATE
- (K) CONCRETE COLLAR TO BE INSTALLED AROUND MANHOLE CASTING
- (L) B6.12 BARRIER CURB AND GUTTER

SITE PLAN NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE MUNICIPALITY, COUNTY AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
3. IT SHALL BE BE THE CONTRACTORS RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH RESPECTIVE UTILITY COMPANIES.
4. ALL CONSTRUCTION ACTIVITY ON THIS SITE IS TO BE PERFORMED IN COMPLIANCE WITH MOST CURRENT APPLICABLE OSHA STANDARDS FOR WORKER SAFETY.
5. ALL RADII AND STREET DIMENSIONS SHALL BE MEASURED TO FACE OF CURB OR FACE OF INTEGRAL CURB AND WALK. ALL DIMENSIONS TO THE BUILDING ARE TO THE OUTSIDE OF BUILDING FOUNDATION WALL.
6. EXISTING PAVEMENT TO BE SAW CUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING PAVEMENT.
7. THE EDGE OF THE EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
8. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH THE APPROPRIATE SEALANT ACCORDING TO MANUFACTURER'S DIRECTIONS.
9. ALL PARKING STRIPES AND AREA PARKING TO BE 4" YELLOW PAINT. ADA PARKING AREAS AND ACCESS AISLES TO BE 4" BLUE PAINT.
10. BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
11. SEE ARCHITECTURAL PLANS FOR DETAILS OF BUILDINGS AND BUILDING DIMENSIONS.
12. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNING ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
13. CONTACT ENGINEER IF ADDITIONAL DIMENSIONS ARE NEEDED FOR CONSTRUCTION.

ZONING TABLE

CURRENT ZONE: B3 COMMERCIAL, PUD
PROPOSED ZONE: B3 COMMERCIAL, PUD

FRONT YARD SETBACK PROPOSED: 30 FT
SIDE YARD SETBACK PROPOSED: 35 FT (EAST) AND 50 FT (WEST)
REAR YARD SETBACK PROPOSED: 10 FT
MAJOR ARTERIAL SETBACK PROPOSED: 6.6 FT
MAJOR ARTERIAL SETBACK REQUIRED: 70 FT FROM THE CENTERLINE OR 20 FT FROM THE EDGE OF THE RIGHT-OF-WAY.

ABUTTING PROPERTIES:
NORTH: B2 COMMERCIAL, PUD
SOUTH: R3 HIGH-DENSITY RESIDENTIAL, MULTIFAMILY; R1A PARKS AND OPEN SPACES;
I INDUSTRIAL (SOUTH OF RAILROAD R/W)
EAST: I INDUSTRIAL
WEST: B3 (WEST OF IDOT R/W)

PARKING RATIO:
EXISTING BUILDING AREA, LOT 1: 90,396 SFT
PROPOSED BUILDING AREA, LOT 2 & 3: 19, 800 SFT
(REQUIRED PARKING RATIO FOR SELF-STORAGE 0.4 PER 1,000 SF)

THE TOTAL PROPOSED PARKING FOR THE CONSOLIDATED LOT (DEVIATION GRANTED PER ORDINANCE #06-167): 14 SPACES

EXISTING DEVELOPED AREA, LOT 1: 79,370 SFT
ADDITIONAL PROPOSED DEVELOPMENT AREA, LOT 2 & 3: 102,428 SFT
EXPANSION: 56.3%

FLOOD ZONE: X (AREA OF MINIMAL HAZARD)

FLOOR-AREA RATIO (FAR) CALCULATIONS:
ALL BUILDINGS, CONSOLIDATED AREA LOTS 1, 2, & 3: 0.606
REQUIRED MAXIMUM: 0.325

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LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

30' 0 30' 60'
GRAPHIC SCALE

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SITE PLAN

C200

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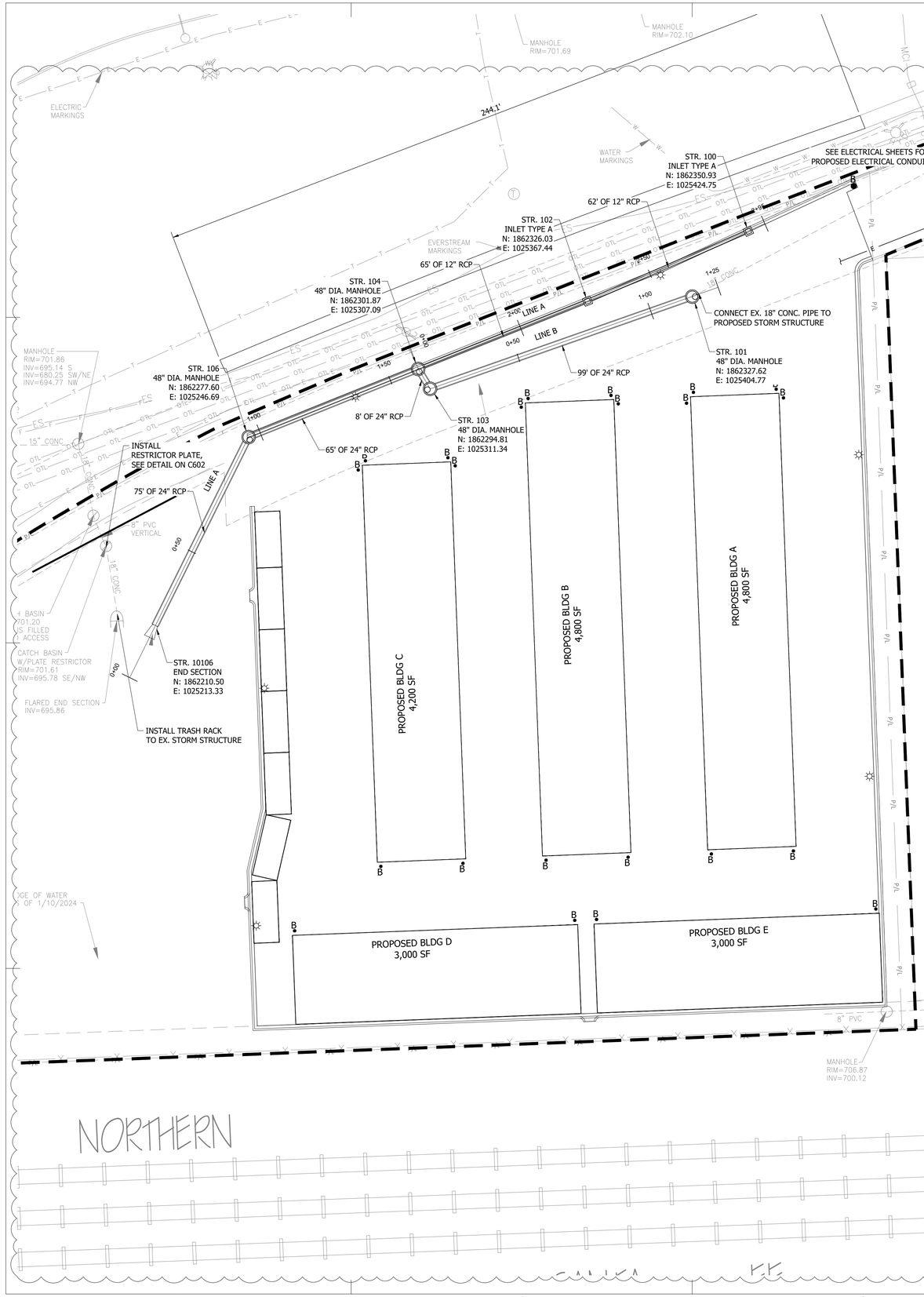


CITY OF NAPERVILLE STORM SEWER NOTES

1. NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.
2. THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.
3. THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS. WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED:

3A. REINFORCED CONCRETE PIPE (RCP) - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT.

4. BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE 1/4 INCH TO 1 INCH IN SIZE. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS.
5. BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
6. JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS; CASCADE CSS, ROMAC LSS, FERNCO, INC. SHEAR RING, OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, CLASS, AND DATE OF ISSUE SHALL BE CLEARLY IDENTIFIED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BILLS OF LADING, OR OTHER QUALITY ASSURANCE DOCUMENTATION WHEN REQUESTED BY THE CITY ENGINEER. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL.
7. MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER.
8. MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED EQUAL) WITH THE WORD "STORM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE MANHOLE COVER.
9. MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE, TRUE TO VERTICAL ALIGNMENT, IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 1/2 INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.
10. CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER-TIGHT AT ALL POINTS BELOW GRADE. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER. CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES AND GRATES SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT.
    A) PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, NEENAH R-2502, OR APPROVED EQUAL FOR OPEN GRATES. EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE A SOLID COVER, NEENAH R-1772, OR APPROVED EQUAL FOR CLOSE LIDS.
    B) BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, NEENAH R-3278-A, OR APPROVED EQUAL.
    C) DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, NEENAH R-3225-L, OR APPROVED EQUAL.
    D) MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, NEENAH R-3501-P, OR APPROVED EQUAL.
    E) NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, NEENAH R-4340-B, OR APPROVED EQUAL. ALTERNATELY, IN AREAS WHERE THERE IS THE LIKELIHOOD OF PEDESTRIAN TRAFFIC, EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED.
11. THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT, AND SHALL BE OF LEAK PROOF CONSTRUCTION, CAPABLE OF WITHSTANDING THE ANTICIPATED LOADINGS. SEE TABLE 200-1 IN THE NAPERVILLE STANDARD SPECIFICATIONS FOR THE MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING DIAMETERS. THE STEEL CASING PIPE SHALL HAVE MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL MEET THE REQUIREMENTS OF A139/A139M-04 (OR LATEST EDITION), GRADE B. RING DEFLECTION SHALL NOT EXCEED 2% OF THE NOMINAL DIAMETER. THE STEEL CASING PIPE SHALL BE DELIVERED TO THE JOBSITE WITH BEVELED ENDS TO FACILITATE FIELD WELDING.
12. ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS. ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LIFT HOLES TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE STORM SEWER AND SANITARY SEWER BE ALLOWED.
13. FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2-INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1-FOOT BY 1-FOOT SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.
14. ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH NONSHRINKING HYDRAULIC CEMENT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RING. WHEN ADJUSTMENTS ARE NECESSARY, NO MORE THAN 12 INCHES OF VERTICAL ADJUSTMENT MAY BE MADE USING THE MINIMUM PRACTICAL NUMBER OF INDIVIDUAL RINGS.
    ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP), OR OTHER MATERIAL AS APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED. TAPERED ADJUSTING RINGS SHALL BE REQUIRED WHEN THE FRAME WILL NEED TO MATCH THE SLOPE OF THE ROADWAY.
    A RESILIENT, FLEXIBLE, NON-HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL, CONSEAL 102 B OR APPROVED EQUAL, SHALL BE USED BETWEEN THE CONE OR TOP BARREL SECTION OF THE STRUCTURE AND THE ADJUSTING RINGS. A THICK BEAD OF NON-HARDENING ELASTOMERIC JOINT SEALANT CONFORMING TO ASTM C-920, TYPE S, GRADE NS, SHALL BE APPLIED BETWEEN ALL INDIVIDUAL RINGS, AND BETWEEN THE ADJUSTING RINGS AND THE FRAME. THE SEALANT OR MASTIC MATERIAL SHALL BE APPLIED IN SUCH A MANNER THAT NO SURFACE WATER OR GROUND WATER INFLOW CAN ENTER THE STRUCTURE.

UTILITY PLAN LEGEND

P/L	PROPERTY LINE
	PROPOSED CONSTRUCTION LIMITS
	EXISTING STORM SEWER
W	EXISTING WATER LINE
G	EXISTING GAS LINE
T	EXISTING UNDERGROUND TELEPHONE LINE
E	EXISTING UNDERGROUND ELECTRIC LINE
OTL	EXISTING OVERHEAD WIRES
	PROPOSED STORM SEWER
E	PROPOSED UNDERGROUND ELECTRIC LINE
EXISTING FIRE HYDRANT	PROPOSED STORM MANHOLE
EXISTING WATER VALVE	PROPOSED BEEHIVE INLET
EXISTING STORM SEWER STRUCTURE	PROPOSED STORM INLET
EXISTING GAS METER	PROPOSED CURB INLET
EXISTING WATER MANHOLE	PROPOSED CLEANOUT
EXISTING ELECTRIC METER	
EXISTING LIGHT POLE	

UTILITY PLAN NOTES

1. RIM OR TOP OF CASTING ELEVATION EQUALS THE LOWEST POINT ON THE CASTING WHERE WATER ENTERS THE STRUCTURE OR THE TOP OF A SOLID CASTING.
2. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR END OF PIPE END SECTION.
3. LOCATIONS OF EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION WITH LOCAL JURISDICTION AND ALL RESPECTIVE UTILITY COMPANIES FOR GAS, ELECTRIC, TELEPHONE AND CABLE SERVICES.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING TRAFFIC CONTROL PER LOCAL STANDARDS AND REQUIREMENTS.
6. SEE ARCHITECUAL PLANS FOR DETAILED INFORMATION AND EXACT LOCATIONS FOR UTILITIES COMING INTO THE BUILDING.
7. SEE ARCHITECTUAL PLANS FOR LOCATIONS OF DOWNSPOUTS.
8. FOR VIEWING CLARITY OF THESE CONSTRUCTION PLAN, PIPES OR STRUCTURES MAY NOT BE SHOWN TO SCALE.
9. ALL UTILITY MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS FOR EACH UTILITY AGENCY HAVING JURISDICTION.
10. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAINS, THE CONTRACTOR SHALL EITHER ADJUST THE WATER LINE DOWNWARD IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED OR THE CONTRACTOR SHALL PROVIDE APPROPRIATE BENDS AND CROSSINGS.
11. WATER AND SEWER MAIN CROSSINGS SHALL BE IN ACCORDANCE WITH 10 STATE STANDARDS. WATER AND SEWER MAINS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM EDGE OF OF PIPE TO EDGE OF PIPE. WATER PIPES CROSSING ABOVE SEWER PIPES MUST HAVE A MINIMUM VERTICAL SEPARATION OF 18 INCHES CLEARANCE BETWEEN PIPES. IF THESE STANDARDS CANNOT BE MET THEN THE SEWER PIPE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE FOR AT LEAST 10 FEET, MEASURED PERPENDICULAR TO THE WATER LINE, ON EITHER SIDE OF THE CROSSING. NO JOINT ON THE DUCTILE IRON PIPE SHALL BE LESS THAN 5 FEET PERPENDICULAR FROM THE WATER LINE.
12. THE CONTRACTOR SHALL CONTACT ENGINEER FOR ALL QUESTIONS REGARDING UTILITY PLAN DISCREPANCIES AND/OR CONFLICTS IN THE FIELD.

STRUCTURE SCHEDULE

MARK	INVERT		CASTING			STRUCTURE		
	INLET	OUTLET	ELEVATION	TYPE	OPENING CONDITION	TYPE	DIAMETER	DETAIL
STR. 100	-	12" RCP 699.29	706.00	R-6.12 R-3278-A	OPEN	MANH A	4'	C600
STR. 101	18" RCP 699.33	24" RCP 699.23	706.43	R-1772	CLOSED	MANH A	4'	C600
STR. 102	12" RCP 699.05	12" RCP 698.95	705.37	R-6.12 R-3278-A	OPEN	MANH A	4'	C600
STR. 103	24" RCP 698.88	24" RCP 698.78	705.20	R-1772	CLOSED	MANH A	4'	C600
STR. 104	12" RCP 698.75 24" RCP 698.75	24" RCP 698.65	704.72	R-6.12 R-3278-A	OPEN	MANH A	4'	C600
STR. 106	24" RCP 698.26	24" RCP 698.06	704.18	R-6.12 R-3278-A	OPEN	MANH A	4'	C600
STR. 10106	24" RCP 697.61	-	699.94	-	-	END SECTION	-	C600

RQAW
DCCM

PERMIT SET

EXTRA SPACE STORAGE, INC.
ESS NAPERVILLE STORAGE #1259
1432 W OGDEN AVE. NAPERVILLE, IL 60563

#	Revision	Date
2	CITY REVIEW COMMENTS	08/22/24
3	CITY REVIEW COMMENTS	10/31/24

Project #: 23-700-300-1
Designed By: MDL
Drawn By: RLH
Checked By: ALC
Date: 10.31.2024

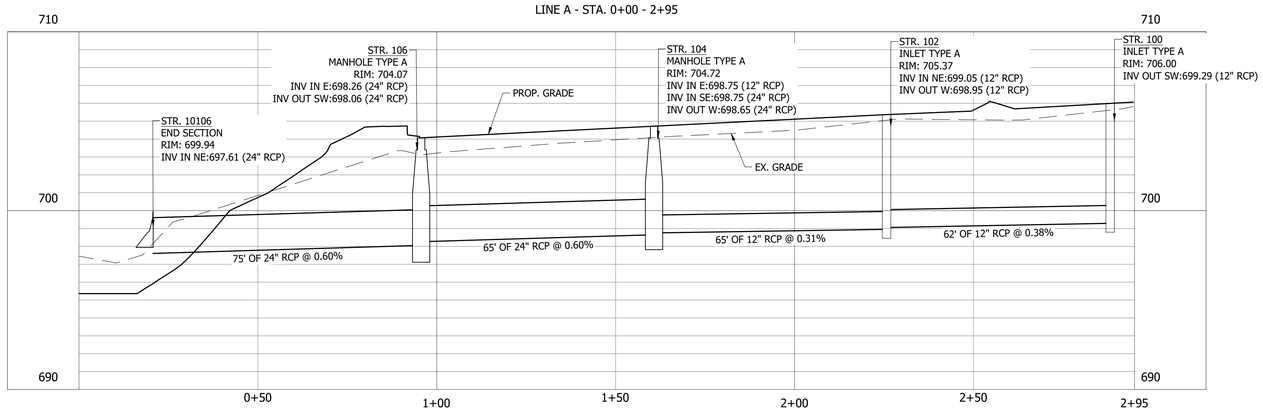
LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

20' 0 20' 40'
GRAPHIC SCALE

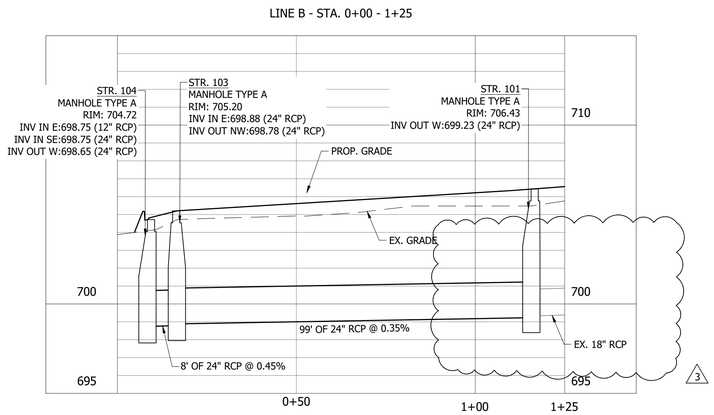
N

UTILITY PLAN

C300



LINE A - STORM SEWER PROFILE - STA. 0+00 TO 2+95
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'



LINE B - STORM SEWER PROFILE - STA. 0+00 TO 1+25
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

RQAW
DCCM

PERMIT SET

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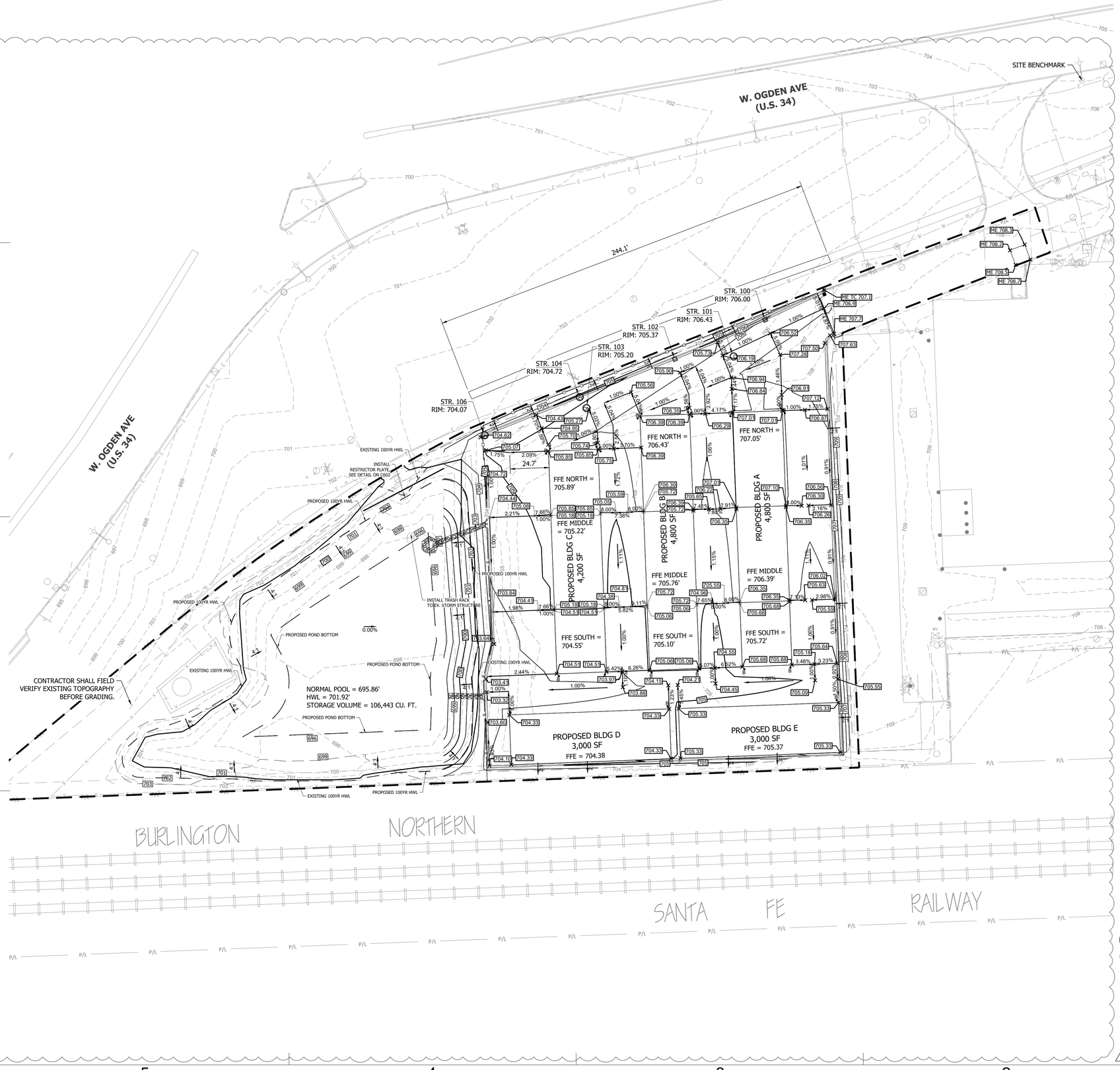
LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

20' 0 20' 40'
GRAPHIC SCALE

STORM SEWER PROFILE VIEWS

C301



GRADING PLAN LEGEND

P/L	PROPERTY LINE
	PROPOSED CONSTRUCTION LIMITS
870	EXISTING CONTOUR
870	PROPOSED CONTOUR
	EXISTING 100YR HWL
	PROPOSED 100YR HWL
	FLOW ARROW
XXX.XX	FINISH GRADE ELEVATION
ME XXX.XX	FINISH GRADE ELEVATION (MATCH EXISTING)
TC XXX.XX FP XXX.XX	TOP OF CURB ELEVATION / FINISHED PAVEMENT ELEVATION

GRADING PLAN NOTES

1. ALL ELEVATIONS AT CONSTRUCTION LIMITS SHALL MATCH EXISTING GRADE.
2. TOPSOIL SHALL BE PLACED IN ALL LANDSCAPE AND YARD AREAS WITH A MINIMUM DEPTH OF 6".
3. MAINTAIN SITE DRAINAGE AT ALL TIMES DURING EARTHWORK OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE FACILITIES IF NECESSARY THROUGHOUT CONSTRUCTION.
4. CONTOURS SHOW GRADING INTENT. THE CONTRACTOR MUST USE PROPOSED SPOT GRADE ELEVATIONS AND PROFILES TO BUILD SITE. CONTACT ENGINEER IF ADDITIONAL SPOT GRADES ARE NEEDED FOR CONSTRUCTION.
5. PAVEMENT AREAS SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. FILL AREAS FOR PAVEMENTS ARE TO BE STRIPPED OF ALL TOPSOIL PRIOR TO PLACEMENT OF FILL.
6. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
7. SEE UTILITY PLAN SHEETS FOR STORM SEWER INVERT AND RIM ELEVATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THAT STAKED GRADES MATCH DESIGN ELEVATIONS AND POSITIVE DRAINAGE TO STORMWATER MANAGEMENT SYSTEM IS ACHIEVED. CONTACT ENGINEER IF DESIGN ELEVATIONS DO NOT PROVIDE POSITIVE DRAINAGE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EARTHWORK QUANTITIES AND INCLUDE ANY NECESSARY EXPORT OR IMPORT OF MATERIAL. IMPORT MATERIAL SHALL BE PRE-APPROVED BY THE ENGINEER/ARCHITECT. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW THE EXISTING CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK COSTS INCLUDING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCE.
10. CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE AT NO ADDITIONAL COST TO THE OWNER.
11. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR AND CORRECT, IF ANY, STANDING WATER CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
12. CONTRACTOR TO PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER WITH ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.

CUT/FILL BALANCE

TOTAL CUT = 5860 CUBIC YARDS

TOTAL FILL = 400 CUBIC YARDS

NET (CUT) = 5460 CUBIC YARDS

NOTE:
NO SHRINK SWELL FACTOR APPLIED TO EARTHWORKS.

FLOOD ELEVATIONS

10-YEAR FLOOD ELEVATION = 700.58

100-YEAR FLOOD ELEVATION = 702.09

BENCHMARK

DESCRIPTION: BERNSTEN 3D TOP SECURITY MONUMENT. CONSISTING OF A 9/16" DIA. STAINLESS STEEL DATUM POINT ON THREADED 9/16" X 4' LONG ROD TOTALING (8') IN LENGTH WITH GREASED TOP SECURITY SLEEVE ENCLOSED IN SAND AND 6" PVC PIPE WITH BMAC 6 ALUMINUM ACCESS COVER.

STATION NO.: 219

ELEVATION: 692.52 NAVD88

RQAW

DCCM

PERMIT SET

EXTRA SPACE STORAGE, INC.

ESS NAPERVILLE STORAGE #1259

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Drawn By: RLH

Checked By: ALC

Date: 10.31.2024

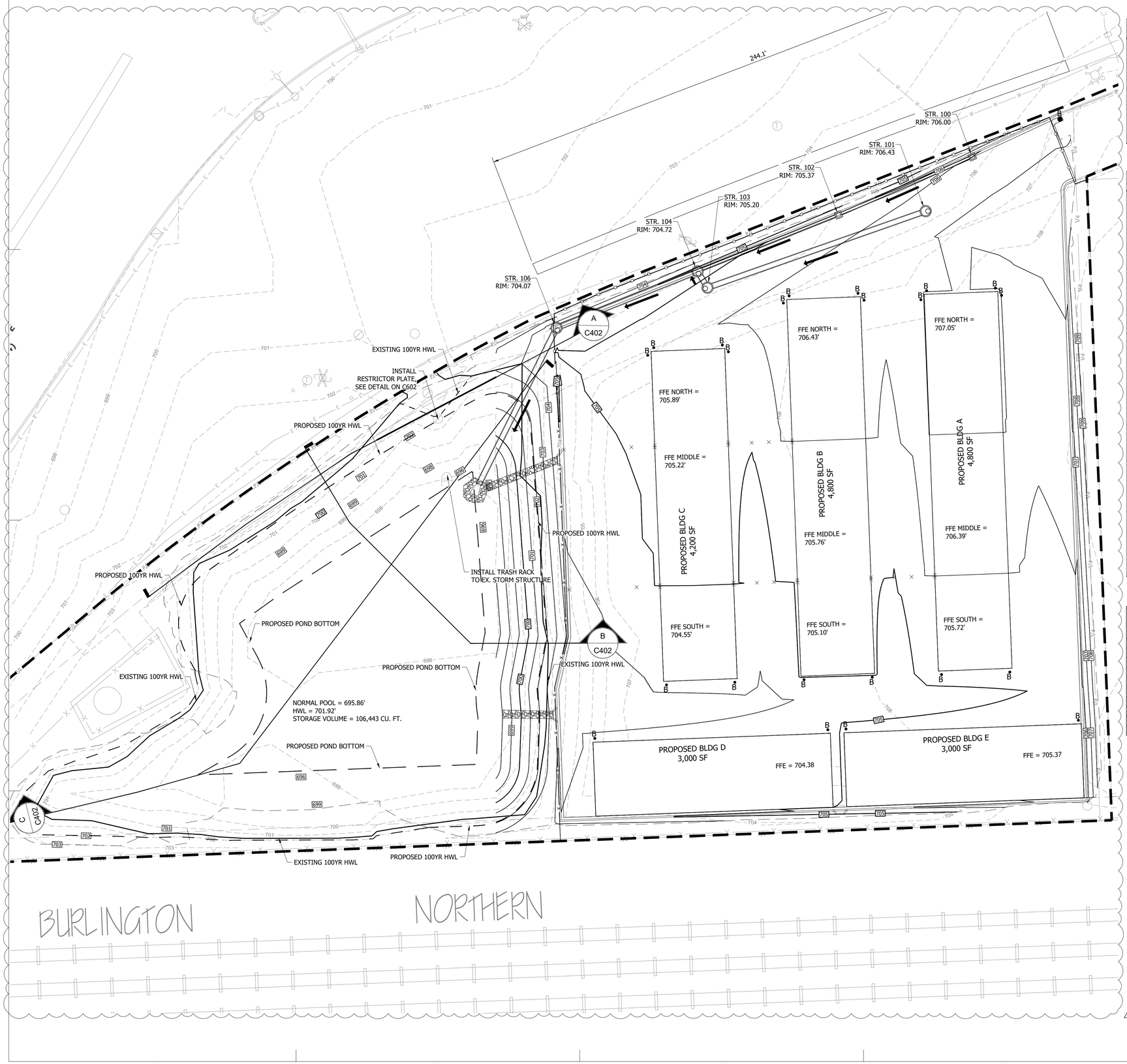
LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

30' 0 30' 60'
GRAPHIC SCALE

N

GRADING PLAN

C400



GRADING PLAN LEGEND

P/L	PROPERTY LINE
	PROPOSED CONSTRUCTION LIMITS
870	EXISTING CONTOUR
870	PROPOSED CONTOUR
	FLOW ARROW

GRADING PLAN NOTES

1. ALL ELEVATIONS AT CONSTRUCTION LIMITS SHALL MATCH EXISTING GRADE.
2. TOPSOIL SHALL BE PLACED IN ALL LANDSCAPE AND YARD AREAS WITH A MINIMUM DEPTH OF 6".
3. MAINTAIN SITE DRAINAGE AT ALL TIMES DURING EARTHWORK OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE FACILITIES IF NECESSARY THROUGHOUT CONSTRUCTION.
4. CONTOURS SHOW GRADING INTENT. THE CONTRACTOR MUST USE PROPOSED SPOT GRADE ELEVATIONS AND PROFILES TO BUILD SITE. CONTACT ENGINEER IF ADDITIONAL SPOT GRADES ARE NEEDED FOR CONSTRUCTION.
5. PAVEMENT AREAS SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. FILL AREAS FOR PAVEMENTS ARE TO BE STRIPPED OF ALL TOPSOIL PRIOR TO PLACEMENT OF FILL.
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7. SEE UTILITY PLAN SHEETS FOR STORM SEWER INVERT AND RIM ELEVATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THAT STAKED GRADES MATCH DESIGN ELEVATIONS AND POSITIVE DRAINAGE TO STORMWATER MANAGEMENT SYSTEM IS ACHIEVED. CONTACT ENGINEER IF DESIGN ELEVATIONS DO NOT PROVIDE POSITIVE DRAINAGE.
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10. CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE AT NO ADDITIONAL COST TO THE OWNER.
11. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR AND CORRECT, IF ANY, STANDING WATER CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
12. CONTRACTOR TO PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER WITH ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.

Contour Elevation (feet)	Pond Contour Area (sq-ft)	Pond Storage Used for Detention (cubic-feet)	Remarks
695.86	10,539	0	Pond Outfall Invert
696	10,796	1,493	
697	12,784	13,283	
698	14,979	27,165	
699	17,407	43,358	
700	20,336	62,229	
701	23,139	83,967	
701.92	25,721	106,442	100-YR HWL
702	25,945	108,509	
703	28,973	135,968	

RQAW
DCCM

PERMIT SET

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Checked By: ALC
Date: 10.31.2024

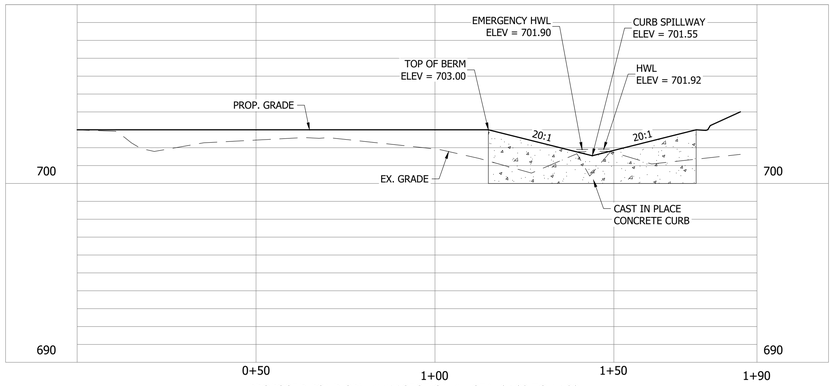
AARON CROW
062-075899
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS

20' 0 20' 40'
GRAPHIC SCALE
N

STORM DRAINAGE PLAN

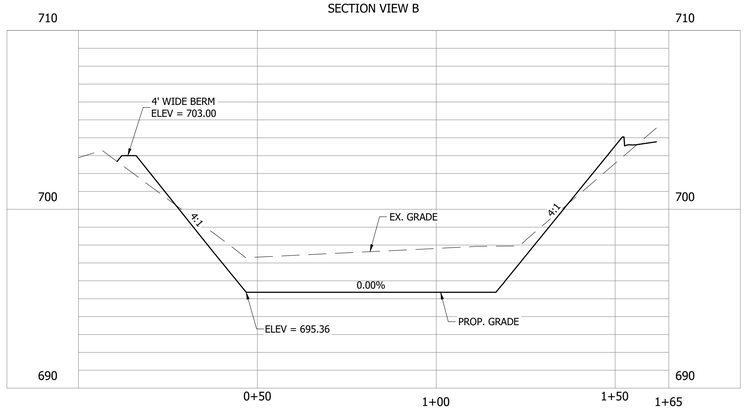
C401

SECTION VIEW A - POND EMERGENCY SPILLWAY



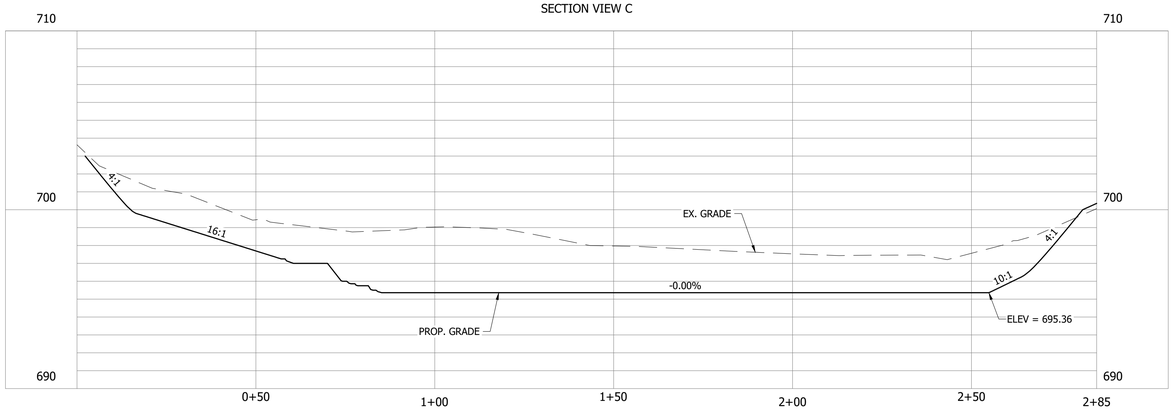
PROPOSED POND SPILLWAY SECTION A - STA. 0+00 TO 1+90
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SECTION VIEW B



PROPOSED POND SECTION B - STA. 0+00 TO 1+65
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SECTION VIEW C



PROPOSED POND SECTION C - STA. 0+00 TO 2+85
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

3

RQAW
DCCM

PERMIT SET

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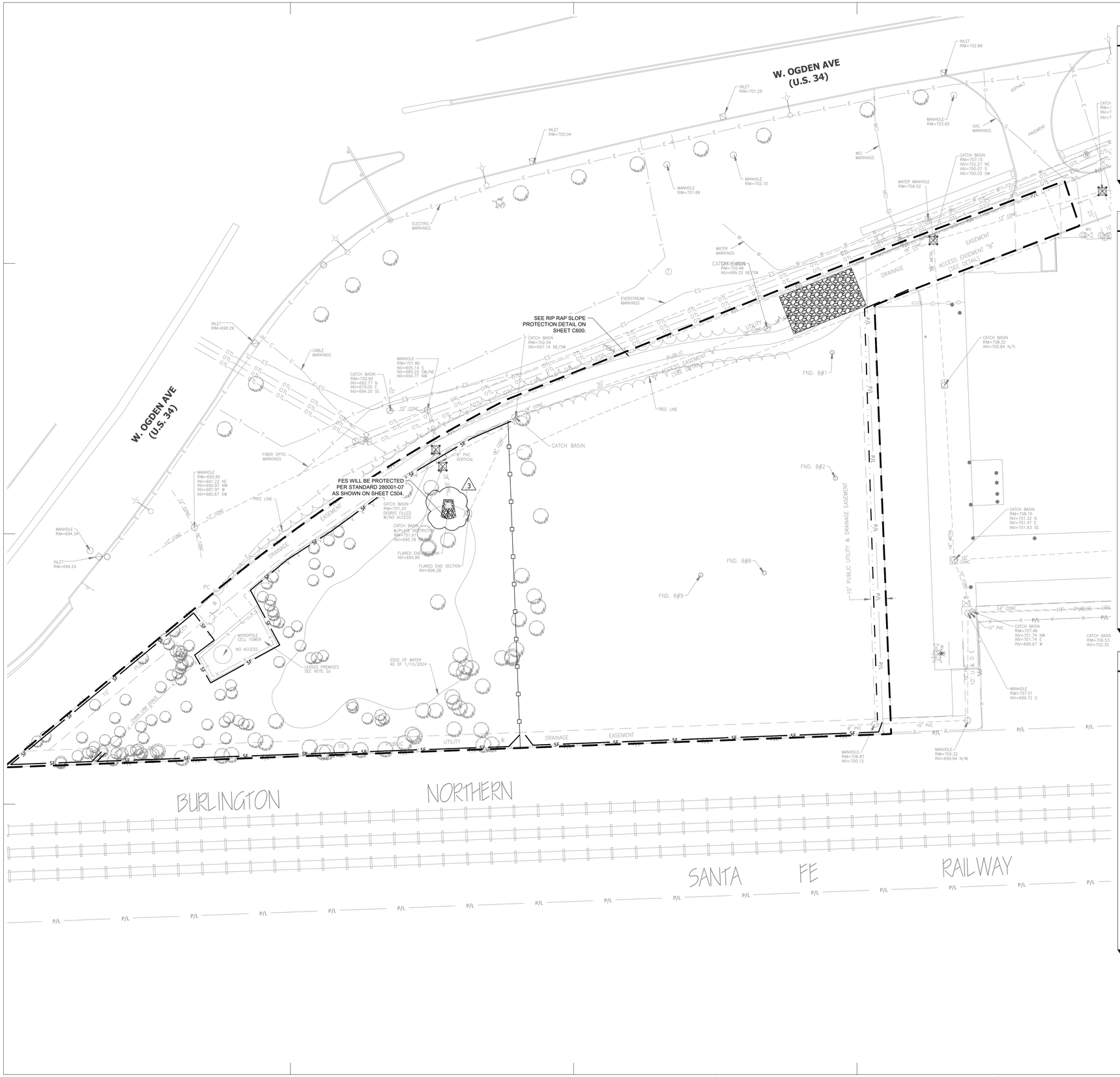
LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

20' 0 20' 40'
GRAPHIC SCALE

STORM DRAINAGE SECTION VIEWS

C402



EROSION CONTROL PLAN LEGEND

- PROPERTY LINE
- PROPOSED CONSTRUCTION LIMITS
- SILT FENCE
- SILT WORM BARRIER
- CONCRETE WASHOUT
- DROP BAG INLET PROTECTION

EROSION CONTROL PLAN NOTES

1. SEE SHEET C504 FOR SOILS MAP AND SOIL CHARACTERISTICS.
2. SEE SHEET C503 FOR EROSION CONTROL DETAILS.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
4. ACCESS TO THE SITE SHALL BE RESTRICTED TO THE LOCATION AS SHOWN. NO OTHER SITE ACCESS IS AVAILABLE UNLESS THE CONTRACTOR OBTAINS APPROVAL FROM ADJACENT PROPERTY OWNER AND APPROVAL FROM THE CITY.
5. SEE EROSION CONTROL SEQUENCE AND IMPLEMENTATION NOTES ON SHEET C502.
6. EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED ONCE A WEEK AND AFTER EVERY RAINFALL EVENT. MAKE REPAIRS IMMEDIATELY.
7. THE SITE IS NOT LOCATED ON OR ADJACENT TO ANY FLOODWAY/FLOOD PLAIN AREAS.
8. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
9. AREAS THAT WILL BE DISTURBED FOR MORE THAN 15 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEEDING. ALL DISTURBED YARD/GRASS AREAS MUST BE STABILIZED WITH PERMANENT SEEDING MEASURES.
10. SEE SHEET FOR C502 FOR GENERAL SEEDING AND SURFACE STABILIZATION PROCEDURES.
11. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ADDITIONAL EROSION CONTROL MEASURES TO REQUEST OF LOCAL AND/OR STATE STORMWATER AND EROSION CONTROL INSPECTORS.
12. SPOILS TO BE REMOVED FROM SITE, CONTRACTOR TO DETERMINE LOCATION AND COORDINATE WITH THE LOCAL EROSION CONTROL AUTHORITY.
13. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE PROJECT SITE.
14. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORMWATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
15. WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE STORMWATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
16. PRIOR TO COMPLETION OF THIS PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND BASINS TO DESIGNED GRADES.

NAPERVILLE EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
2. DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
3. DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.
4. ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.
5. ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.
6. ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. STRAW BALES SHALL NOT BE USED.
7. STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED.
8. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH OR GREATER RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.
9. IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.

RQAW
DCCM

PERMIT SET

EXTRA SPACE STORAGE, INC.
ESS NAPERVILLE STORAGE #1259
1432 W OGDEN AVE. NAPERVILLE, IL 60563

#	Revision	Date
2	CITY REVIEW COMMENTS	08/22/24
3	CITY REVIEW COMMENTS	10/31/24

Project #: 23-700-300-1
Designed By: MDL
Drawn By: RLH
Checked By: ALC
Date: 10.31.2024

LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

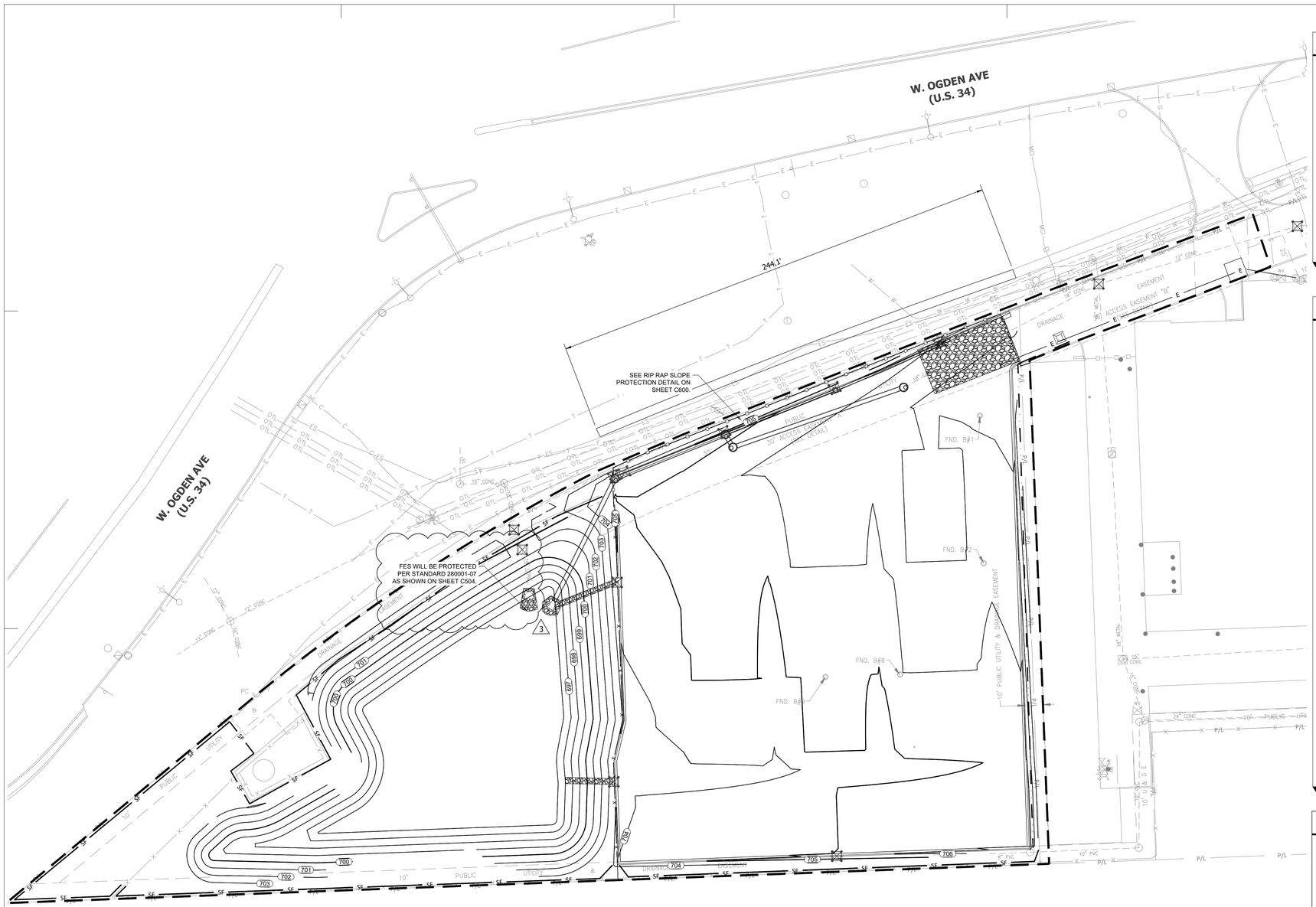
30' 0 30' 60'
GRAPHIC SCALE

N

PRE-CONSTRUCTION EROSION CONTROL PLAN

C500

3



EROSION CONTROL PLAN LEGEND

- PROPERTY LINE
- PROPOSED CONSTRUCTION LIMITS
- SILT FENCE
- SILT WORM BARRIER
- REVETMENT RIPRAP
- CONCRETE WASHOUT
- DROP BAG INLET PROTECTION

EROSION CONTROL PLAN NOTES

1. SEE SHEET C504 FOR SOILS MAP AND SOIL CHARACTERISTICS.
2. SEE SHEET C503 FOR EROSION CONTROL DETAILS.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
4. ACCESS TO THE SITE SHALL BE RESTRICTED TO THE LOCATION AS SHOWN. NO OTHER SITE ACCESS IS AVAILABLE UNLESS THE CONTRACTOR OBTAINS APPROVAL FROM ADJACENT PROPERTY OWNER AND APPROVAL FROM THE CITY.
5. SEE EROSION CONTROL SEQUENCE AND IMPLEMENTATION NOTES ON SHEET C502.
6. EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED ONCE A WEEK AND AFTER EVERY RAINFALL EVENT. MAKE REPAIRS IMMEDIATELY.
7. THE SITE IS NOT LOCATED ON OR ADJACENT TO ANY FLOODWAY/FLOOD PLAIN AREAS.
8. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
9. AREAS THAT WILL BE DISTURBED FOR MORE THAN 15 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEEDING. ALL DISTURBED YARD/GRASS AREAS MUST BE STABILIZED WITH PERMANENT SEEDING MEASURES.
10. SEE SHEET FOR C502 FOR GENERAL SEEDING AND SURFACE STABILIZATION PROCEDURES.
11. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ADDITIONAL EROSION CONTROL MEASURES TO REQUEST OF LOCAL AND/OR STATE STORMWATER AND EROSION CONTROL INSPECTORS.
12. SPOILS TO BE REMOVED FROM SITE, CONTRACTOR TO DETERMINE LOCATION AND COORDINATE WITH THE LOCAL EROSION CONTROL AUTHORITY.
13. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE PROJECT SITE.
14. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORMWATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
15. WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE STORMWATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
16. PRIOR TO COMPLETION OF THIS PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND BASINS TO DESIGNED GRADES.

NAPERVILLE EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
2. DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
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LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

30' 0 30' 60'
GRAPHIC SCALE

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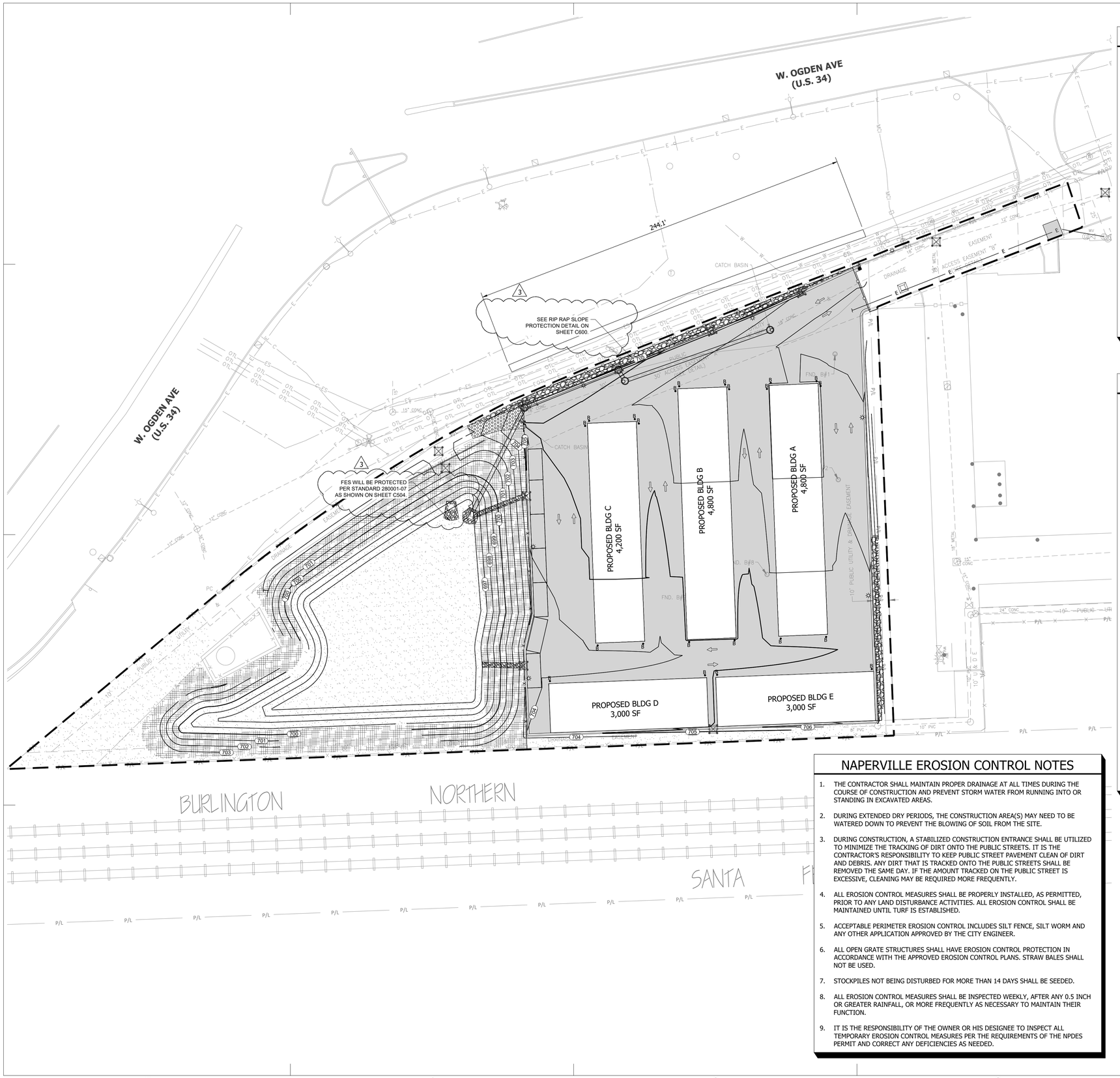
CONSTRUCTION EROSION CONTROL PLAN

C501

3



EROSION CONTROL PLAN LEGEND

- PROPERTY LINE
- PROPOSED CONSTRUCTION LIMITS
- SILT FENCE
- SILT WORM BARRIER
- ASPHALT PAVING
- PERMANENT SEEDING
- EROSION CONTROL MAT
- REVETMENT RIPRAP
- GRAVEL ACCESS DRIVE
- CONCRETE WASHOUT
- DROP BAG INLET PROTECTION

EROSION CONTROL PLAN NOTES

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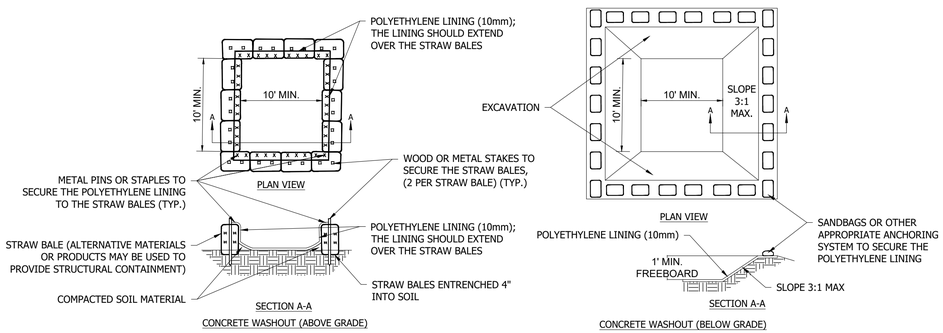
LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

30' 0 30' 60'
GRAPHIC SCALE
N

POST CONSTRUCTION EROSION CONTROL PLAN

C502



INSTALLATION:

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS:

1. INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

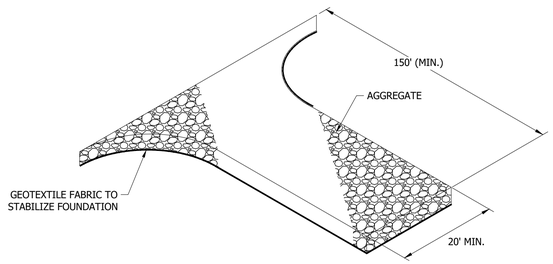
DESIGNED AND INSTALLED SYSTEMS:

2. UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
3. DEPENDENT UPON THE TYPE OF SYSTEM, EITHER EXCAVATE THE PIT OR INSTALL THE CONTAINMENT SYSTEM.
4. A BASE SHALL BE CONSTRUCTED AND PREPARED THAT IS FREE OF ROCKS AND OTHER DEBRIS THAT MAY CAUSE TEARS OR PUNCTURES IN THE POLYETHYLENE LINING.
5. INSTALL THE POLYETHYLENE LINING. FOR EXCAVATED SYSTEMS, THE LINING SHOULD EXTEND OVER THE ENTIRE EXCAVATION. THE LINING FOR BERMED SYSTEMS SHOULD BE INSTALLED OVER THE POOLING AREA WITH ENOUGH MATERIAL TO EXTEND THE LINING OVER THE BERM OR CONTAINMENT SYSTEM. THE LINING SHOULD BE SECURED WITH PINS, STAPLES, OR OTHER FASTENERS.
6. PLACE FLAGS, SAFETY FENCING, OR EQUIVALENT TO PROVIDE A BARRIER TO CONSTRUCTION EQUIPMENT AND OTHER TRAFFIC.
7. PLACE A NON-COLLAPSING, NON-WATER HOLDING COVER OVER THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
8. INSTALL SIGNAGE THAT IDENTIFIES CONCRETE WASHOUT AREAS.
9. POST SIGNS DIRECTING CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
10. WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

MAINTENANCE:

11. INSPECT DAILY AND AFTER EACH STORM EVENT.
12. INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
13. INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
14. INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
15. ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
16. EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
17. UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
18. DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE, OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
19. THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
20. THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
21. CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FURTHER DEWATERING.
22. PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
23. INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
24. WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
25. HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

1 CONCRETE WASHOUT DETAIL
NOT TO SCALE



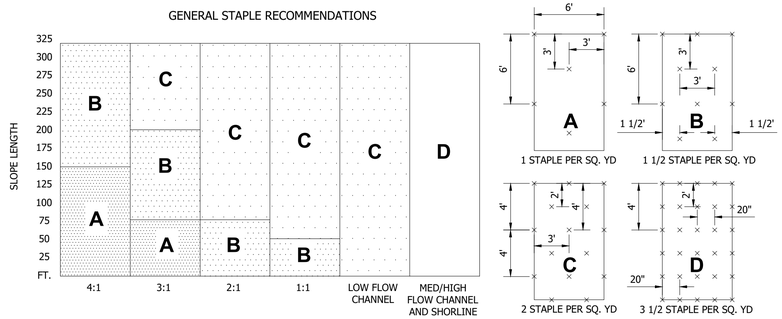
INSTALLATION NOTES:

1. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
2. GRADE FOUNDATION AND CROWN FOR POSITIVE DRAINAGE. IF THE SLOPE OF THE CONSTRUCTION ENTRANCE IS TOWARD A PUBLIC ROAD AND EXCEEDS TWO PERCENT, CONSTRUCT AN EIGHT INCH HIGH DIVERSION RIDGE WITH A RATIO OF 3-TO-1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
3. INSTALL A CULVERT PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
4. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
5. PLACE AGGREGATE TO THE DIMENSIONS AND GRADE SHOWN IN THE CONSTRUCTION PLANS, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. TOP-DRESS THE FIRST 50 FEET ADJACENT TO THE PUBLIC ROADWAY WITH TWO TO THREE INCHES OF WASHED AGGREGATE [OPTIONAL, USED PRIMARILY WHERE THE PURPOSED OF THE PAD IS KEEP SOIL FROM ADHERING TO VEHICLE TIRES]
7. WHERE POSSIBLE, DIVERT ALL STORM WATER RUNOFF AND DRAINAGE FROM THE INGRESS,/EGRESS PAD TO A SEDIMENT TRAP OR BASIN.

MAINTENANCE NOTES:

1. INSPECT DAILY.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOP DRESS WITH CLEAN AGGREGATE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS.
5. FLUSHING SHOULD ONLY BE USED IF THE WATER CAN BE CONVEYED INTO A SEDIMENT TRAP OR BASIN.

3 TEMPORARY CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



NOTE:

1. STRAW MAT SHALL CONSIST OF A MACHINE PRODUCED MAT CONSISTING OF AT LEAST 90% OF THE TOTAL DRY MASS BEING CLEAN STRAW FROM AGRICULTURAL CROPS, WITH THE EXCEPTION THAT UP TO 30% OF THE TOTAL DRY MASS MAY BE COCONUT FIBERS IN LIEU OF AN EQUAL PERCENTAGE OF STRAW. PAPER OR PAPER RELATED PRODUCTS SHALL NOT BE ALLOWED AS COMPONENT IN THE 160 STRAW MATT. THE STRAW SHALL BE EVENLY DISTRIBUTED THROUGHOUT THE MAT TO FORM A THICKNESS OF 1/ 2 IN. +/- 1/ 8 IN. THE TOP SIDE OF THE MAT SHALL BE COVERED WITH A PHOTODEGRADABLE/BIODEGRADABLE PLASTIC MESH WHICH SHALL BE SUBSTANTIALLY ADHERED TO THE STRAW BY A KNITTING PROCESS USING PHOTODEGRADABLE/BIODEGRADABLE THREAD. THE ROLLS SHALL BE PACKAGES WITH SUITABLE PROTECTION FOR OUTDOOR STORAGE AT A CONSTRUCTION SITE IN A MANNER WHICH PROTECTS THEM FROM BIODEGRADATION PRIOR TO USE. THE AVERAGE DRY MASS OF THE STRAW SHALL NOT BE LESS THAN 0.7 LB/SQ YD. THE MINIMUM ROLL WIDTH SHALL BE 6 FT.
2. CHANNEL LINING UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.
3. STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS STAPLE PATTERNS MAY VERY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.
4. AT SLOPE LENGTHS GREATER THAN 300 FEET OF WHERE DRAINAGE OVER LARGE ARES IS DIRECTED ONTO THE BLANKETS. STAPLE PATTERN "C" SHOULD BE UTILIZED.

2 EROSION CONTROL MAT INSTALLATION GUIDE DETAIL
NOT TO SCALE

RQAW
DCCM

PERMIT SET

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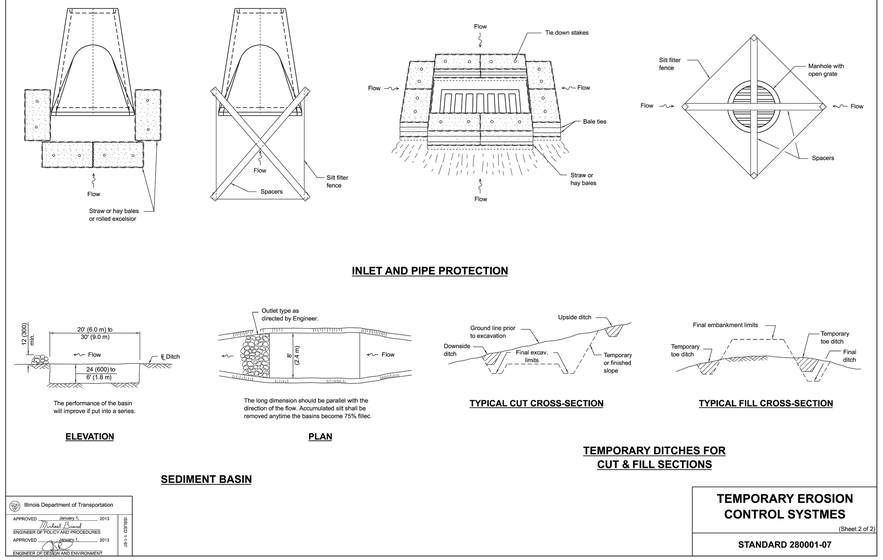
EROSION CONTROL DETAILS

C503



INLET AND PIPE PROTECTION

ELEVATION **PLAN** **TYPICAL CUT CROSS-SECTION** **TYPICAL FILL CROSS-SECTION**

SEDIMENT BASIN

TEMPORARY DITCHES FOR CUT & FILL SECTIONS

Illinois Department of Transportation

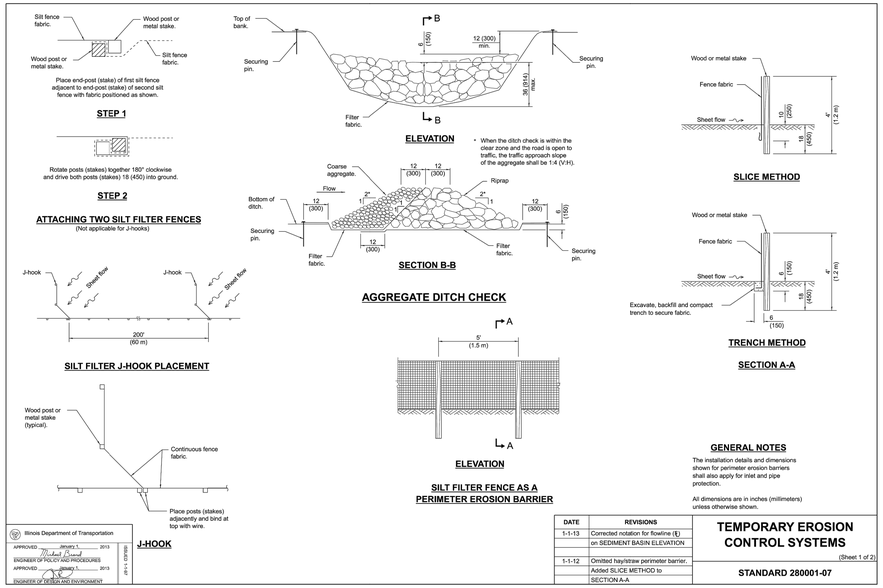
APPROVED January 1, 2013
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

BDE/BSC 2-13-07

TEMPORARY EROSION CONTROL SYSTMES

(Sheet 2 of 2)

STANDARD 280001-07



GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

All dimensions are in inches (millimeters) unless otherwise shown.

* When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).

DATE	REVISIONS
1-1-13	Corrected notation for flowline (℄)
	on SEDIMENT BASIN ELEVATION
1-1-12	Omitted hay/straw perimeter barrier.
	Added SLICE METHOD to
	SECTION A-A

Illinois Department of Transportation

APPROVED January 1, 2013
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

BDE/BSC 2-13-07

TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 1 of 2)

STANDARD 280001-07

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OF ILLINOIS

EROSION CONTROL DETAILS

C504

SITE NAME

The area scheduled for construction is known as "EXTRA SPACE STORAGE FACILITIES" (hereinafter referred to as the "Project")

PROJECT LOCATION

The project is located in NAPERVILLE, IL and includes properties outside of the town's property line.

OWNER'S INFORMATION

Name: EXTRA SPACE STORAGE, INC.
Address: 2795 EAST COTTONWOOD PARKWAY, #400 SALT LAKE CITY, UTAH 84121
Contact: CLINT KLEPPE
Title: DISTRICT MANAGER
Email: CKLEPPE@EXTRASPACE.COM

OPERATOR'S INFORMATION

Name: N/A
Address: N/A
Contact: N/A
Title: N/A
Telephone: N/A

NOTICE OF INTENT

All parties defined as owners must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Un-permitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an owner is defined as any party meeting either of the following requirements:

1) The party has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications.

2) The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.

A2 VICINITY MAP

Refer to the TITLE SHEET G001

A3 PROJECT NARRATIVE

The EXTRA SPACE STORAGE FACILITIES project involves building (5) Extra Space Storage Facilities.

A4 LATITUDE AND LONGITUDE

Latitude: 41°46'45.34" N Longitude: 88°10'56.71" W

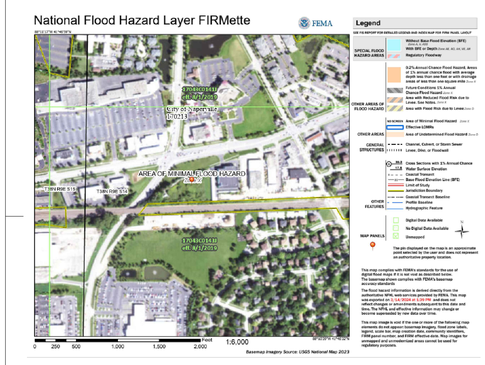
A5 LEGAL DESCRIPTION OF THE PROJECT SITE

Section: 14 Township: 38N Range: 9E Town: NAPERVILLE, IL

A6 11" x 17" PLAT

Refer to the DEMOLITION PLAN C100

A7 100 YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES



A8 ADJACENT LAND USE

N: B2 COMMERCIAL E: I INDUSTRIAL S: R3 HIGH DENSITY RESIDENTIAL W: B3

A9 IDENTIFICATION OF US EPA APPROVED OR ESTABLISHED TMDL

NONE

A10 IDENTIFICATION OF ALL RECEIVING WATERS

NONE

A11 303(d) WATERWAYS - RECEIVING WATERS

NONE

A12 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS

The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction.

Drummer silty clay loam, 0 to 2 percent slopes

Varna silt loam, 2 to 4 percent slopes

A13 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE

XX runs through the X side of town. There are no ponds and stormwater detention reservoirs outside the project limits .

A14 STATE AND FEDERAL WATER QUALITY PERMITS

None

A15 IDENTIFICATION OF EXISTING VEGETATIVE COVER

Approximate areas of existing vegetative cover are as shown on the DEMOLITION PLAN.

A16 EXISTING SITE TOPOGRAPHY

Refer to sheets C100.

A17 LOCATIONS WHERE RUN-OFF ENTERS PROJECT SITE

Run-off enters and exits sites of work via sheet flow toward existing storm ditches and drains throughout town. All stormwater eventually outfalls to the XX, which is approximately X miles X of town.

A18 LOCATIONS WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE

Run-off discharges from the project areas via a system of existing storm drainage ditches, culverts, inlets, and sewers as depicted on the plan set.

A19-A20 LOCATION OF ALL EXISTING STRUCTURES AND/OR RETENTION/DETENTION FACILITIES ON THE PROJECT SITE

Refer to DEMOLITION PLAN for existing site information.

A21 LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER

None

A22-A23 PROJECT AREA AND LAND DISTURBANCE AREA

Approximate Project Area (acres): 3.20
Approximate Land Disturbance (acres): 3.20

A24 PROPOSED FINAL SITE TOPOGRAPHY

Refer to SITE PLAN and GRADING PLAN.

A25 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS

Approximate boundaries of disturbed areas are as identified on the PRE-CONSTRUCTION EROSION CONTROL PLAN.

A26 LOCATION OF ALL PROPOSED STORMWATER SYSTEM ADDITIONS

The location, size, and dimension of each proposed inlet and pipe are shown on sheet C300 UTILITY PLAN. All existing components will be maintained.

A27 DISCHARGE LOCATIONS (STORMWATER AND NON-STORMWATER)

Stormwater discharge will leave the site via the existing 18" concrete storm pipe located on the north side of the property frontage. No wastewater discharge is proposed for this site.

A28 LOCATION OF PROPOSED IMPROVEMENTS

Refer to SITE PLAN, UTILITY PLAN and GRADING PLAN.

A29 LOCATION OF SOIL STOCKPILE AND BORROW AREAS

Refer to PRE-CONSTRUCTION EROSION CONTROL PLAN.

A30 LOCATIONS OF CONSTRUCTION SUPPORT ACTIVITIES

Staging areas and material storage areas are to be located near stockpile areas.

A31 LOCATION OF ANY IN-STREAM ACTIVITIES

N/A

B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

The following potential pollutant sources may be associated with construction activities on site:

1. Material storage areas
2. Construction waste material
3. Fuel storage areas and fueling stations
4. Exposed soils
5. Leaking vehicles and equipment
6. Sanitary waste from temporary toilet facilities
7. Litter
8. Windblown dust
9. Soil tracking off site from construction equipment

The following materials may be staged or stored on site at various points during construction:

1. Structural fill
2. Pavement base stone
3. HDPE, PVC, RCP, or Ductile Iron Pipe
4. Precast concrete, HDPE, or PVC drainage and sanitary structures
5. Riprap

B2 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS

Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the PRE-CONSTRUCTION EROSION CONTROL PLAN. Refer to the EROSION CONTROL DETAILS for details.

B3 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON

Surface stabilization is required on any bare or thinly vegetated areas that is scheduled or likely to remain inactive for a period of 10 days or more. Refer to the Temporary Seeding Detail within the EROSION CONTROL DETAILS for specifics on soil amendments, seed mixtures, and mulching. The surface stabilization for the lots needs to be established as soon as possible to prevent dirt wash-out into the streets. If this is not possible, then silt fencing will need to be installed along the back of curbs.

PERMANENT SURFACE STABILIZATION SPECIFICATIONS

1.) Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost, or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 square feet of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
2.) Fertilizer for lawns: provide a fast release fertilizer with a composition of 1lb per 1,000 square feet of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.
3.) Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent.
4.) Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations. Sow seed using a spreader of seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.
5.) Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
6.) Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.
7.) Install erosion control blankets as indicated on the Erosion Control Plan.
8.) Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of speeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas.
9.) Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation.
10.) Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.

B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

Proposed swales will be stabilized with erosion control blankets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the PRE-CONSTRUCTION EROSION CONTROL PLAN for locations and the EROSION CONTROL DETAILS for details.

B5 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS

Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 4:1 (horizontal to vertical). Silt fencing will be utilized to prevent sedimentation from leaving the site. Refer to the PRE-CONSTRUCTION EROSION CONTROL PLAN for locations and the EROSION CONTROL DETAILS for details.

B6 RUNOFF CONTROL MEASURES

SILT FENCE, SILT WORM BARRIER, INLET DROP BAG PROTECTION, AND CONCRETE WASHOUT STATION.

B7 STORMWATER OUTLET PROTECTION MEASURES

SILT WORM BARRIER

B8 GRADE STABILIZATION STRUCTURE LOCATIONS

SEE SHEET C500

B9 DEWATERING APPLICATIONS AND MANAGEMENT METHODS

Dewatering must occur meeting the Specification 31 23 19 in the Project Manual and/or AWWA relevant standards.

B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES

N/A

B14 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE

Inspection Schedule/Reporting
All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month.

Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.

Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify and incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local governing authority.

Construction Entrance
Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.

Material Storage Inspections
Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely b the subject project are considered to be part of the project and must be included in the erosion control plans and site inspection reports.

Soil Stabilization Inspections
Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.

Erosion and Sediment Control Inspections
All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls:

1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored.
2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.
3. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.
4. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence.
5. Stabilized Construction Entrance: Periodic re-grading and top dressing with additional stone.
6. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
7. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.
In the event that sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to user of public street.

Modifications/Revisions to SWPPP
Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven (7) calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven (7) calendar days of the inspection.

It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more control than were originally planned. Fore example, localized concentrations of surface runoff or unusually steep areas could required additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

Notice of Termination
Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.

All permittees must submit an NOT within thirty (30) days after one or more of the following conditions have been met:

1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

B12 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES

Pre-construction Activity
1. The exact locations of all existing utilities within the project limits are to verified prior to construction.
2. Schedule pre-construction meeting with local stormwater authority 48 hours prior to start of construction.
3. Install protection fencing for existing trees to remain in place within the project limits

Construction Site Access
1. Install gravel construction entrance
2. Post the NOI and contact information at the construction entrance. NOI to remain posted for duration of the project.
3. Install construction staging pads, fueling station, material storage areas, concrete washout, construction parking areas, and stabilize construction routes

Perimeter Controls
1. Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed.

Initial Land Clearing and Grading Activities
1. Add protection measures to existing inlets.
2. Strip the topsoil and stabilize the topsoil stockpile.

Secondary Land Grading Activities
1. Begin site grading/construction of detention basins (if applicable) and stabilize any soil stockpiles that will be left dormant for more than 10 days.
2. Complete the cut and fills on the site. Final grade and seed the pond slopes (if applicable). Stabilize slopes with erosion control blanket.
3. Install storm sewer system and install inlet protection immediately upon complete of the inlet and install rip-rap outlet protection prior to installing outlets.

Surface Stabilization
1. Apply temporary seeding and stabilize slopes in areas where rough grading has been completed.
2. Apply permanent seeding and stabilize slopes in areas where final grading has been completed.

Building Construction
1. Prior to building construction install stone surface for paved areas.
2. Building pads left dormant for more than 10 days, must be temporarily seeded.
3. Start building construction. Install staging area for building materials and stabilize.

Final Shaping/Landscaping
1. Utilize topsoil salvage in applicable areas and apply permanent seeding.
2. Apply permanent seeding around the perimeter of the site.
3. Complete utility installation, curbs, paving, and building construction.
4. Install landscaping plant material and stabilize all disturbed areas.
5. Remove all erosion and sediment control practices when areas have a uniform grass cover

B13 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS

The site is not currently subdivided, therefore the entire site is on this plan's PRE-CONSTRUCTION EROSION CONTROL PLAN.

B14-B15 MATERIAL HANDLING AND SPILL PREVENTION PLAN

Solid Waste Disposal
No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to construction activity, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.

A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.

Hazardous Waste
Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.

Use containment berms in fueling and maintenance areas and where potential for spills is high.

A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility.
Dust Control/Off-Site Vehicle Tracking
During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should stabilized to reduce dust.

Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing street. If sediment escapes the construction site, off-site accumulations of sediment must be removed a frequency sufficient to minimize off-site impacts.

Sanitary/Septic
Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on-site location of said facilities.

Water Source
Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.

Equipment Fueling and Storage Areas
Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.

Equipment wash-down (except wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.

Hazardous Material Storage
Chemicals, paint, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not reseatable, store the products in a clearly labeled, waterproof container). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal state, and local regulations.

As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the storage areas.

Material Handling and Spill Prevention
Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1-800-424-8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spill) to the local governing authority. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications minimize the possibility of future occurrences. Each contractor and subcontactor is responsible for complying with these reporting requirements.

Concrete Washout
All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes.

Spill Response Plan
Minor - Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc. can be controlled by the first responder at the discovery of the spill.
- Contain spill to prevent material from entering storm or groundwater. Do not flush with water or bury.
- Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.

Semi-Significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if the spill could be a safety issue
- Contact supervisors and designated site inspectors, including MS4 personnel, immediately.
- Contaminated solids are to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution.
- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system
- Immediately contact the local Fire Department at 911 to report any hazardous material spill.
- Contact supervisors and designated site inspectors immediately. Governing authorities, including MS4 personnel, responsible for stormeater facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
- As soon as possible but within 2 hours of discovery, contact the local agency responsible for spill management. The following information should be noted for future reports to the agency:
  - Name, address and phone number of person making the spill report
  - The location of the spill
  - The time of the spill
  - Identification of the spilled substance
  - Approximate quantity of the substance that has been spilled or may be further spilled
  - The duration and source of the spill
  - Name and location of the damaged waters
  - Name of spill response organization
  - What measures were taken in the spill response
  - Other information that may be significant

Additional regulations or requirement may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is give by the appropriate agency.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE

The proposed land use is for the construction of the EXTRA SPACE STORAGE FACILITIES Project which involves XXX. The pollutants and sources of each pollutant normally expected from the types of land use within the town are as follows;

Pollutant Source: Passenger vehicles, delivery vehicles.
Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, dust, rubber, glass, metal and plastic fragments, grit, road de-icing materials.

Pollutant Source: Building
Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system.

Pollutant Source: Trash Dumpster
Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), uneaten food products, bacteria.

Pollutant Source: Parking Lot
Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing, and patching), pavement de-icing materials, paint fragments from parking stall striping, concrete fragments, wind-blown litter from off-site sources, elevated water temperatures from contact with impervious surfaces.

Pollutant Source: Lawn and Landscape Areas
Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

C2 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES

Vegetated Swale
Vegetated swales are designed to reduce pollutant and sediment loads in stormwater runoff. Stormwater runoff is directioned in the swale which conveys the runoff from the site. While moving through the swale, runoff velocity is greatly decreased allowing biofiltration (uptake of nutrients by plants), infiltration (percolation of water through the swale's porous soil substrate), and sedimentation (settling of later suspended particles).

Permanent Vegetation
Topsoil will be placed in lawn areas and seeded with grass, and graded not to exceed 3:1 slopes. Proposed landscape trees and shrubs will also be added. These bio areas will act as a natural filter strip to help improve stormwater quality. The vegetated areas will slow the velocities of stormwater runoff, reduce sediment runoff, and reduce problems associated with mud or dust from bare soils.

Good Housekeeping Measures
Good housekeeping measures such as regular street or pavement sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant.

C3 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE

Refer to the PRE-CONSTRUCTION EROSION CONTROL PLAN for locations and EROSION CONTROL DETAILS for details.

C4 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION

The grass-lined channels and swales will serve as the permanent water quality features after construction is complete. The purpose of these features is to filter pollutants and sediment.

C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER QUALITY MEASURES

Maintenance requirements for the stormwater quality measures which will remain in place after construction is complete, are described below.

Vegetated Swale
Vegetated swales require little maintenance if properly designed. Mow as needed during the growing season; inspect for erosion control problems twice during the first year, annually thereafter; and removed sediment, trash and debris annually or more frequently if needed.

Wet Detention Pond
Remove debris and sediment from entire pond when necessary. Inspect perimeter of basin annually and after major storm events. Regrade soil if gullies form and replant ground. Inspect inlet and outlet devices and structures annually and after major storm events.

C6 ENTITY RESPONSIBLE FOR MAINTENANCE POST-CONSTRUCTION

City of Naperville.

RQAW
DCCM

PERMIT SET

EXTRA SPACE STORAGE, INC.
ESS NAPERVILLE
STORAGE #1259
1432 W OGDEN AVE. NAPERVILLE, IL 60563

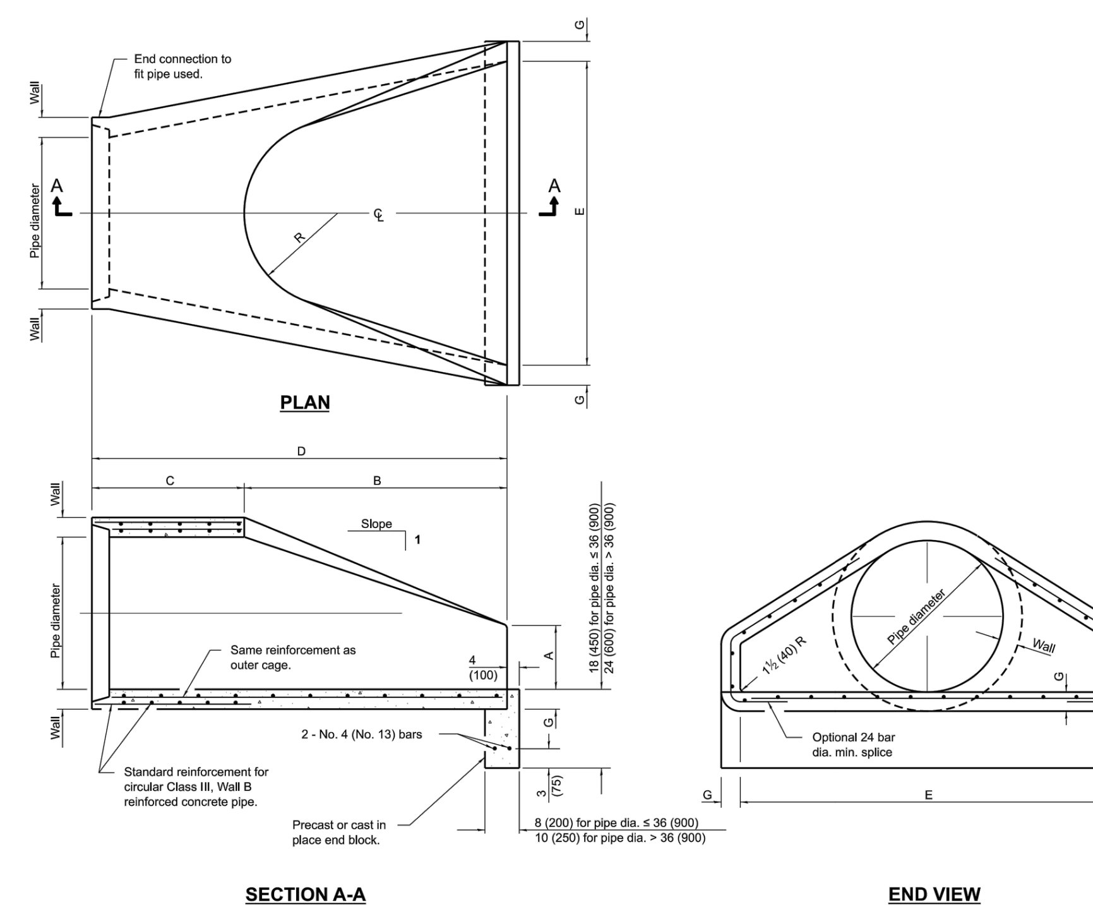
#	Revision	Date
2	CITY REVIEW COMMENTS	08/22/24
3	CITY REVIEW COMMENTS	10/31/24

Project #: 23-700-300-1
Designed By: MDL
Drawn By: RLH
Checked By: ALC
Date: 10.31.2024

LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

SWPPP NOTES

C505



PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0⅞" (1.241 m)	6'-0⅞" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2¼ (57)	6 (152)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2¼ (57)	11 (280)	1:2.4
18 (450)	990 (450)	2½ (64)	9 (229)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	2½ (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2¾ (70)	9 (229)	35 (889)	38 (965)	6'-1" (1.854 m)	3'-6" (1.067 m)	2¾ (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9½ (241)	3'-7½" (1.105 m)	30 (762)	6'-1½" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3¼ (83)	10½ (267)	4'-0" (1.219 m)	25½ (648)	6'-1½" (1.867 m)	4'-6" (1.372 m)	3¼ (83)	14½ (368)	1:2.4
30 (750)	2190 (995)	3½ (89)	12 (305)	4'-6" (1.375 m)	19¾ (502)	6'-1¾" (1.874 m)	5'-0" (1.524 m)	3½ (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3¾ (95)	13½ (343)	4'-10½" (1.486 m)	39¼ (997)	8'-1¾" (2.483 m)	5'-6" (1.676 m)	3¾ (95)	17½ (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-3" (1.6 m)	34¾ (883)	8'-1¾" (2.483 m)	6'-0" (1.829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4½ (114)	21 (533)	5'-3" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4½ (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5½ (140)	27 (686)	5'-5" (1.651 m)	35 (889)	8'-4" (2.54 m)	7'-6" (2.286 m)	5½ (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1.524 m)	39 (991)	8'-3" (2.515 m)	8'-0" (2.438 m)	5 (127)	*	1:1.9
66 (1650)	10710 (4860)	6½ (165)	30 (762)	6'-0" (1.829 m)	27 (686)	8'-3" (2.515 m)	8'-6" (2.591 m)	5½ (140)	*	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-3" (2.514 m)	9'-0" (2.743 m)	6 (152	*	1:1.8
78 (1950)	14770 (6700)	7½ (191)	36 (914)	7'-6" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6½ (165)	*	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6½" (2.299 m)	21 (533)	9'-3½" (2.832 m)	10'-0" (3.048 m)	6½ (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

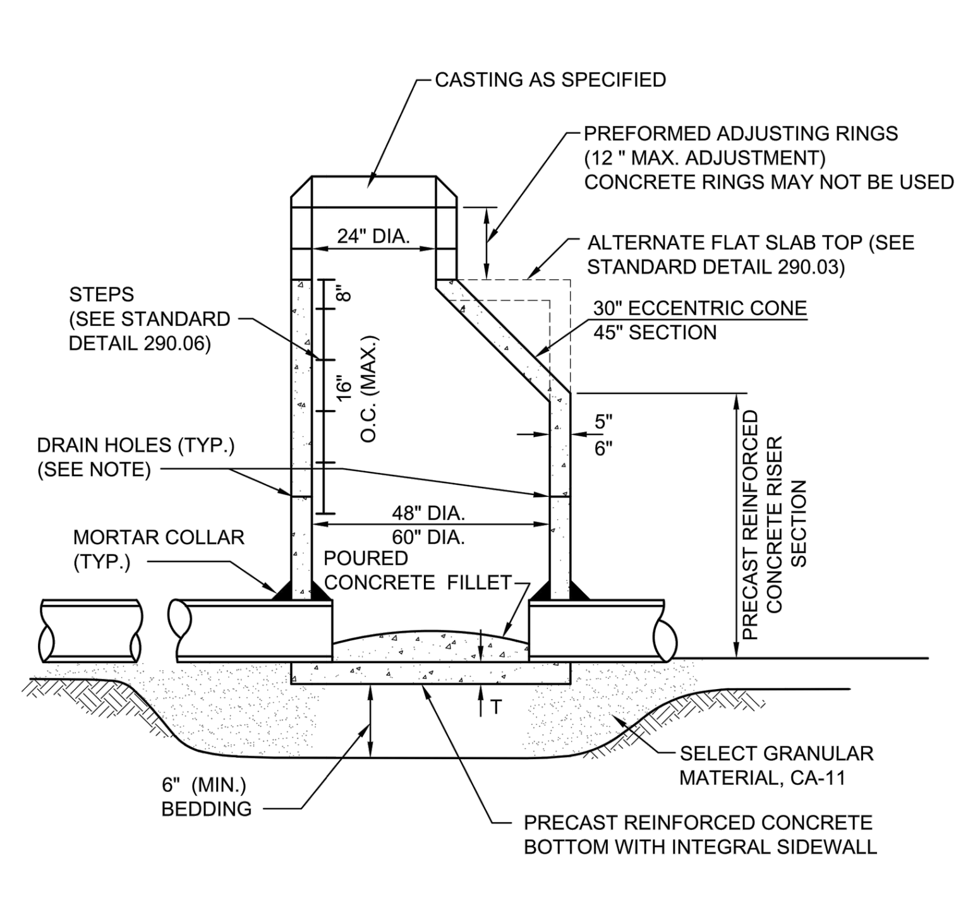
Illinois Department of Transportation

DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia. on
	Section A-A. Changed 'inner'
	to 'outer' cage. ref.
1-1-09	Switched units to English (metric).

PRECAST REINFORCED CONCRETE FLARED END SECTION

STANDARD 542301-03

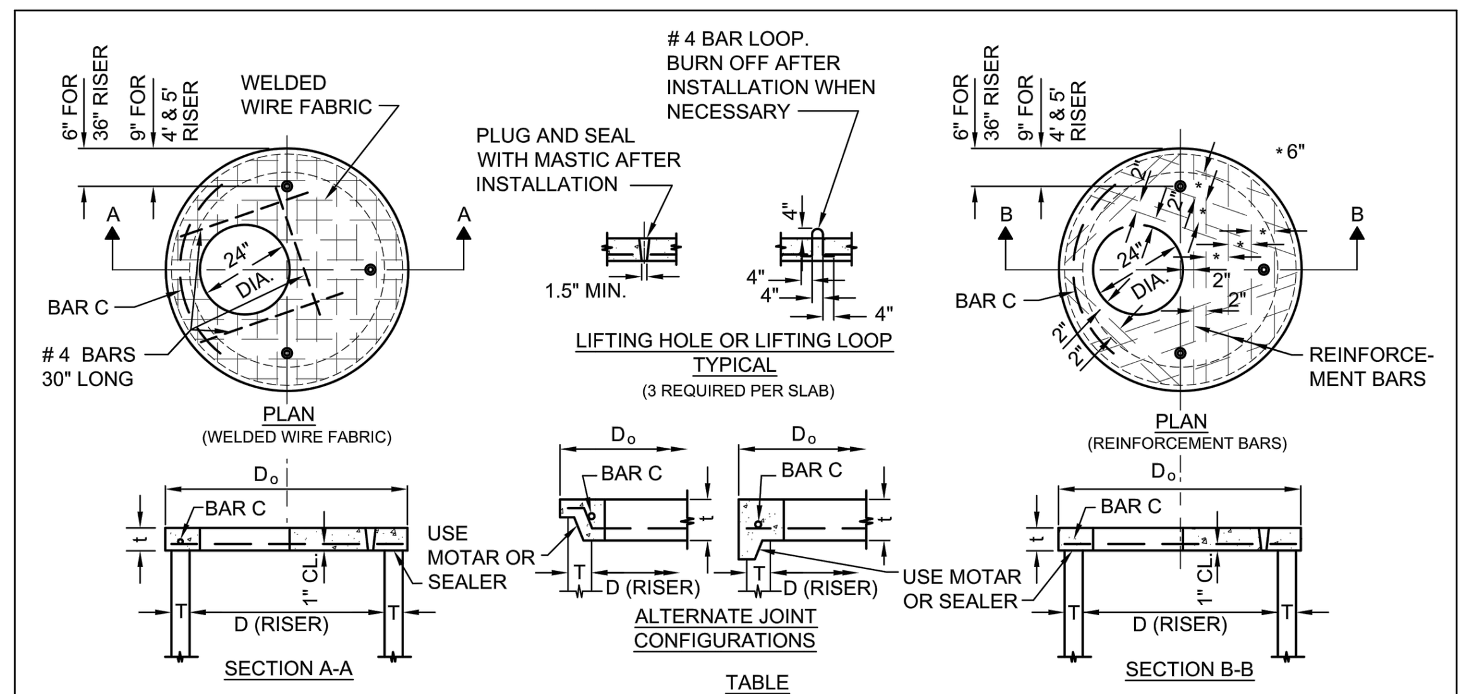
WHEN MANHOLE DEPTH IS 12 FT OR LESS T = 8 INCHES
WHEN MANHOLE DEPTH IS OVER 12 FT. T = 10 INCHES



NOTE:

A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

City of Naperville STANDARD DETAIL | STORM MANHOLE- TYPE A | STORM 1 | **290.01**
REVISED: 08/01/2018 | SHEET 1 OF 1

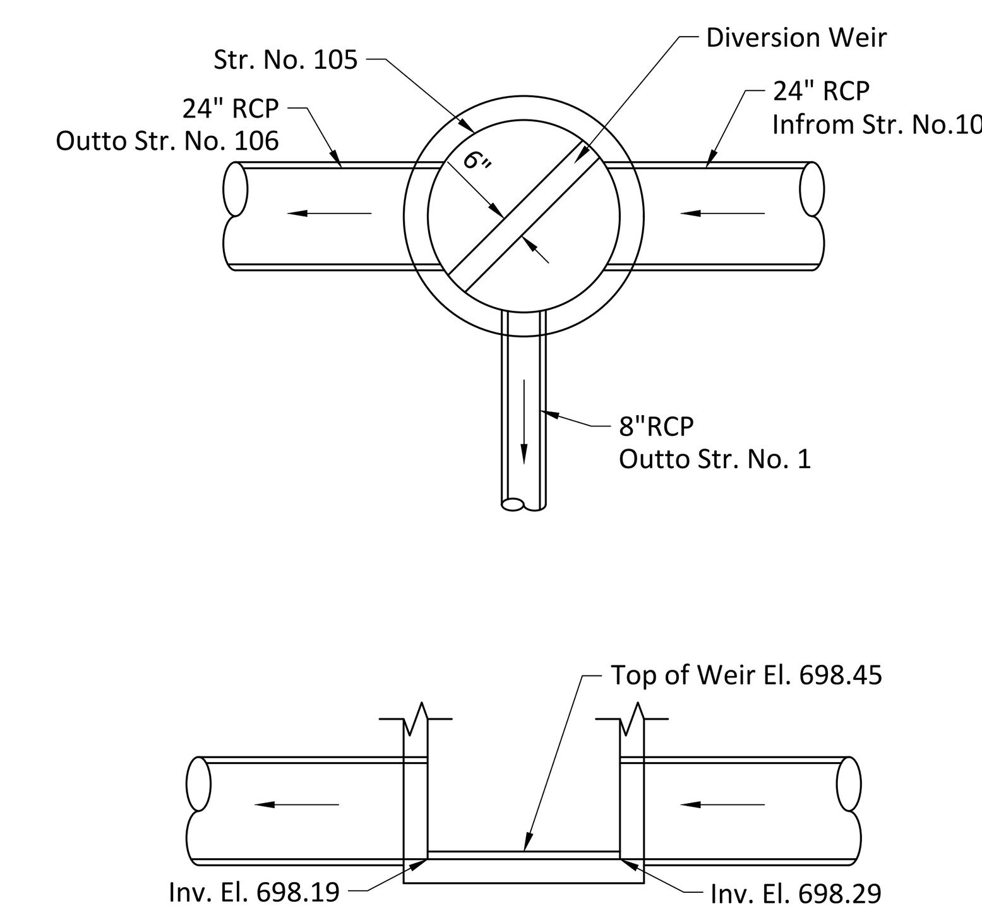


TABLE

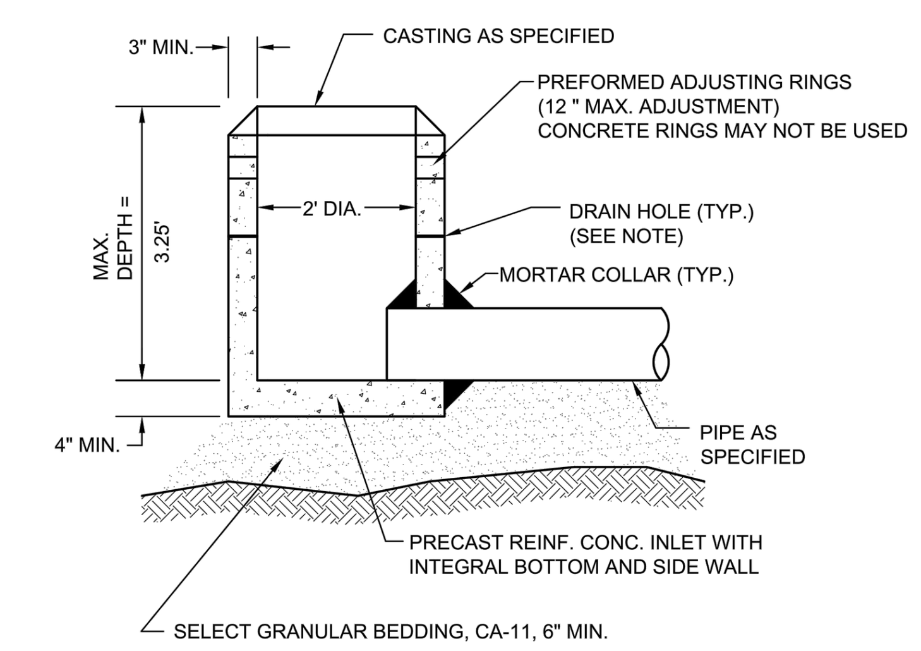
D	T	D_o (MIN)	t	REINFORCEMENT"A" W.W.F. EACH DIRECTION	OR BAR SIZE	#4 Bar C LENGTH	#4 Bar C RADIUS
3'	SEE APPLICABLE STANDARDS	D + 2T	6"	0.20 SQ. INCH/FT.	#4	48"	19"
4'			5"	0.35 SQ. INCH/FT.	#5	54"	26"
5'			8"	0.35 SQ. INCH/FT.	#5	60"	32"

NOTE:
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN

City of Naperville STANDARD DETAIL | FLAT SLAB TOP PRECAST REINFORCED CONCRETE | STORM 3 | **290.03**
REVISED: 01/01/2013 | SHEET 1 OF 1



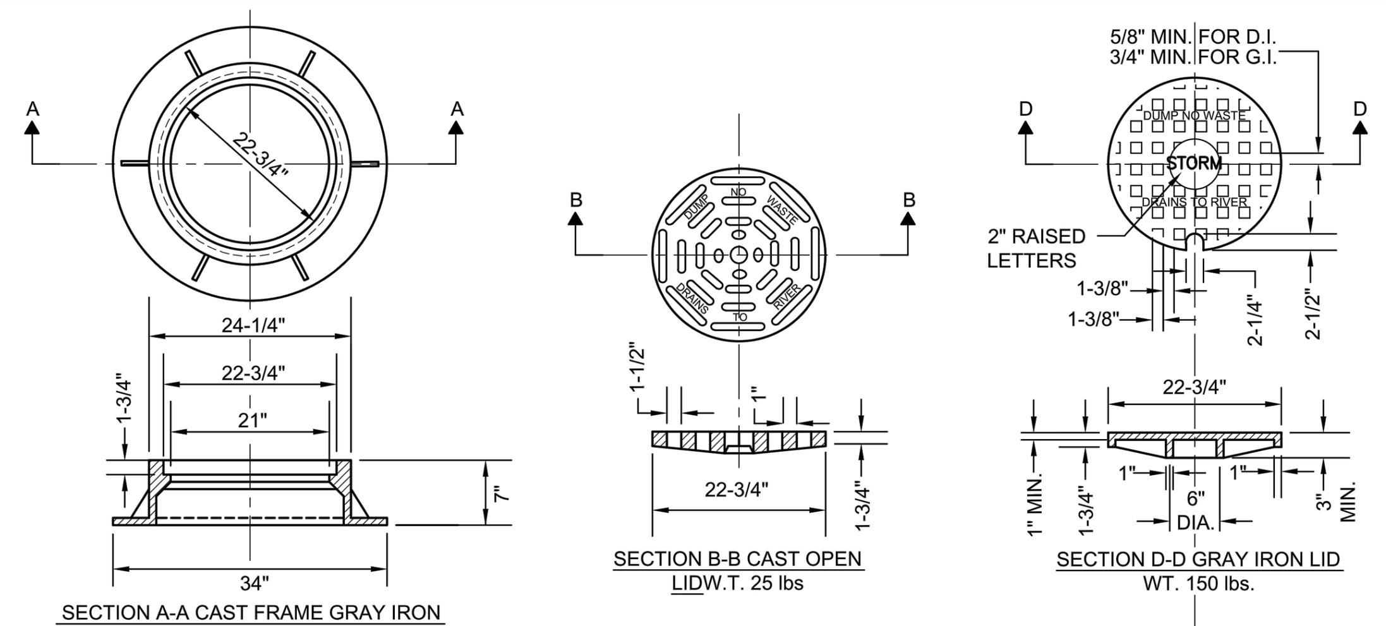
STR. NO. 105 DIVERSION WEIR
N.T.S



NOTE:

IN PAVED AREAS A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

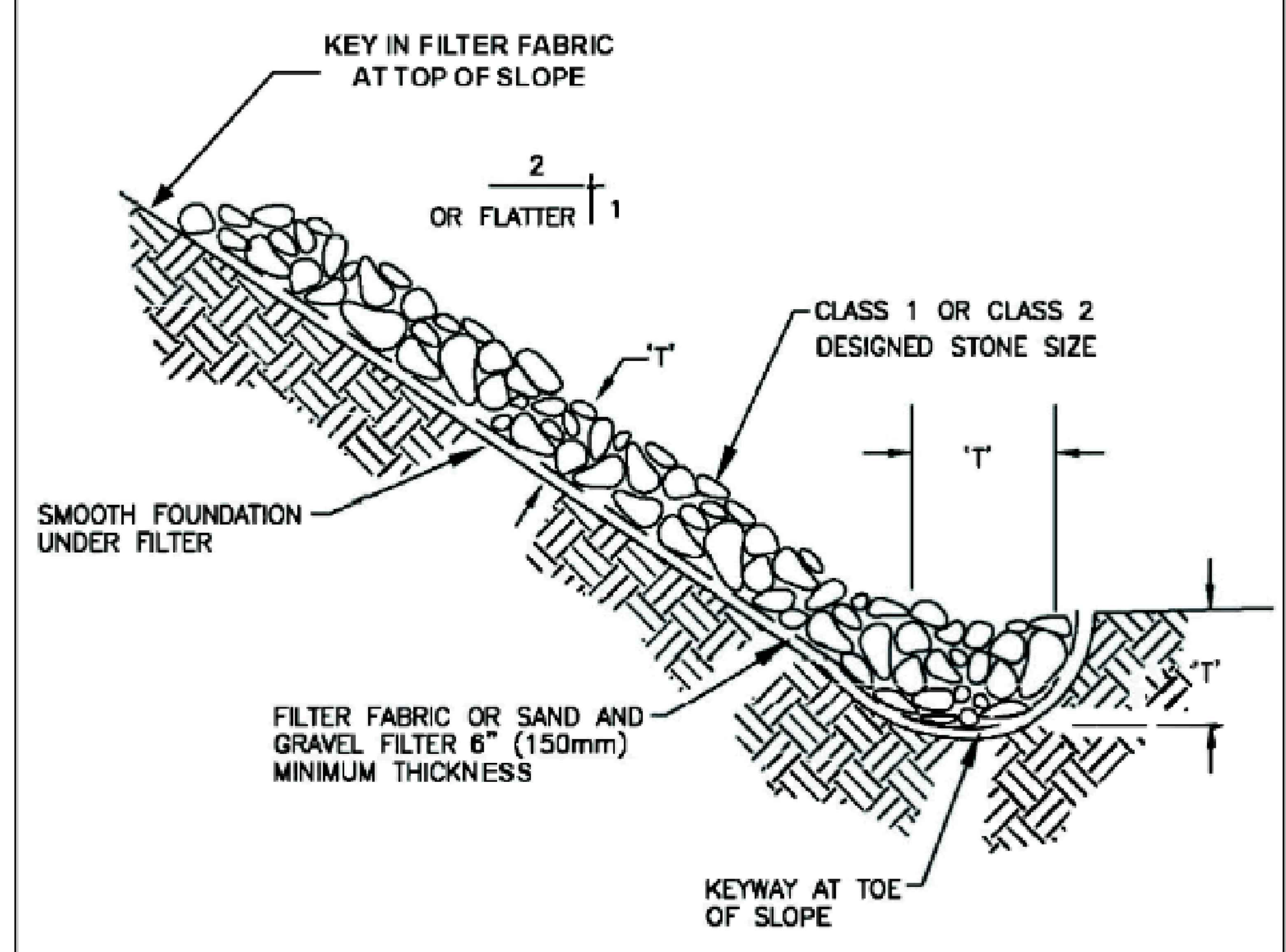
City of Naperville STANDARD DETAIL | INLET - TYPE A | STORM 5 | **290.05**
REVISED: 08/01/2018 | SHEET 1 OF 1



NOTES:

1. FRAME AND GRATE (LID) SHALL BE NEENAH R-2502 FOR OPEN GRATES, R-1772 FOR CLOSED LIDS; EAST JORDAN 1022-2 WITH M-1 GRATE OR TYPE A SOLID COVER, OR EQUAL APPROVED BY THE CITY ENGINEER.
2. ALL LIDS AND COVERS SHALL HAVE MACHINED SURFACES AND SEATS.
3. ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
4. ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".

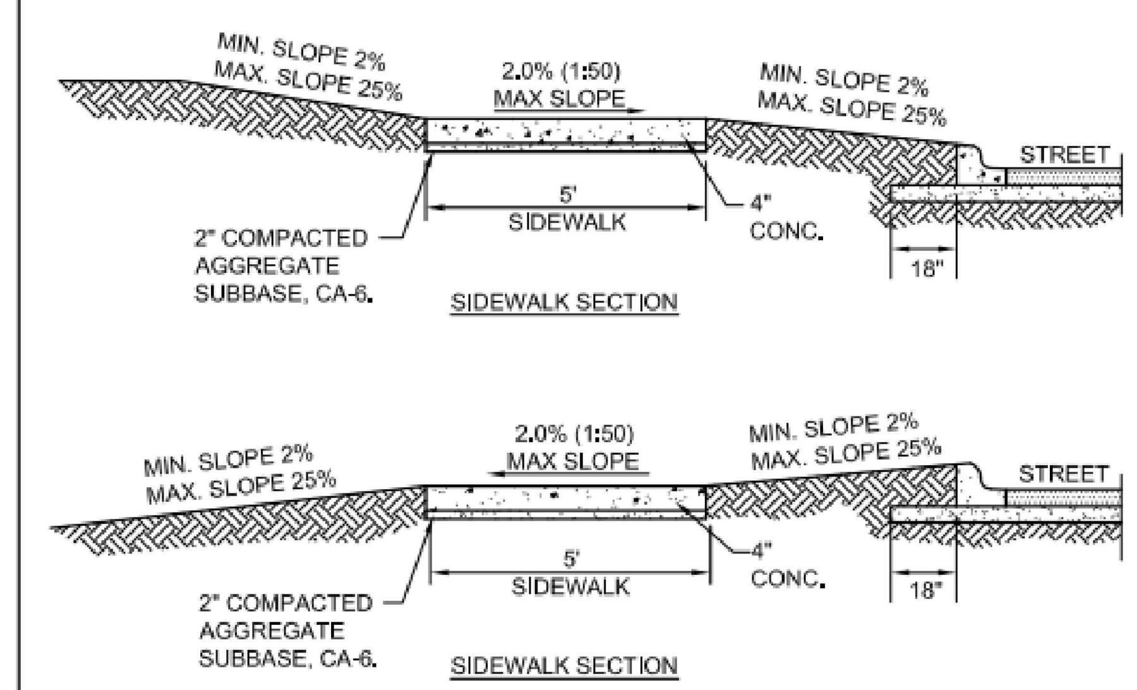
City of Naperville STANDARD DETAIL | FRAME & LID OR GRATE | STORM 10 | **290.10**
REVISED: 05/15/2015 | SHEET 1 OF 1



TYPICAL SECTION

NOTE:

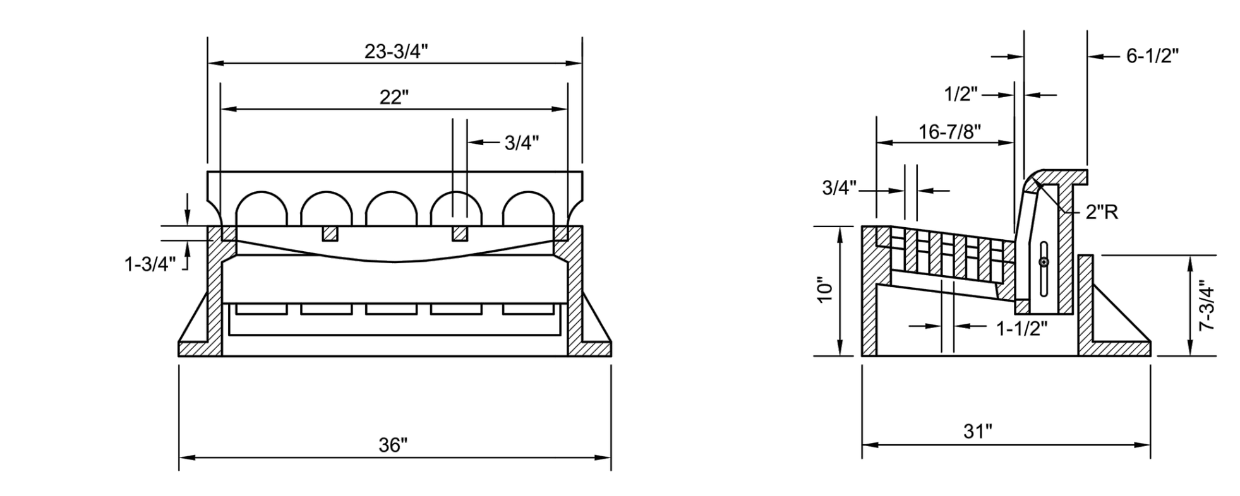
MINIMUM THICKNESS, T, SHALL BE 1.5x THE MAXIMUM STONE DIAMETER, NEVER LESS THAN 6" (150mm).



NOTES:

1. CONCRETE SHALL BE IDOT CLASS SI.
2. MINIMUM SIDEWALK THICKNESS SHALL BE 4".
3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR RESIDENTIAL DRIVEWAYS AND 8" FOR COMMERCIAL DRIVEWAYS.
4. MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (20:1). FOR ANY SLOPE IN EXCESS OF 5%, ALL REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE (LATEST EDITION) SHALL BE MET.
5. MINIMUM TRANSVERSE SLOPE SHALL BE 1.0% (1:100). MAXIMUM TRANSVERSE SLOPE SHALL BE 2.0% (1:50).
6. A MINIMUM 2" AGGREGATE SUBBASE (CA-6) SHALL BE PROVIDED. (4" THROUGH COMMERCIAL DRIVEWAYS).
7. AGGREGATE SUBBASE SHALL BE MECHANICALLY COMPACTED.
8. ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
9. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
10. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

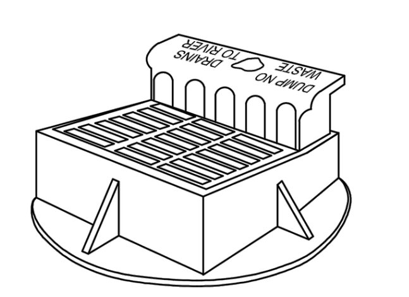
City of Naperville STANDARD DETAIL | SIDEWALK | PAVEMENT 30 | **590.30**
REVISED: 01/01/2013 | SHEET 1 OF 1



CAST FRAME AND GRATE GRAY IRON
TOTAL WT. 500 LBS.

NOTES:

1. FRAME AND GRATE SHALL BE NEENAH R-3278-A, EAST JORDAN IRON 7220, OR EQUAL APPROVED BY THE CITY ENGINEER.
2. ALL CASTING SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
3. SEE STANDARD DETAIL 590.20 FOR CORRESPONDING CURB.
4. ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".



City of Naperville STANDARD DETAIL | FRAME & GRATE FOR B-6.12 CURB & GUTTER | STORM 11 | **290.11**
REVISED: 05/15/2015 | SHEET 1 OF 1

OVERFLOW WEIR SPECIFICATION

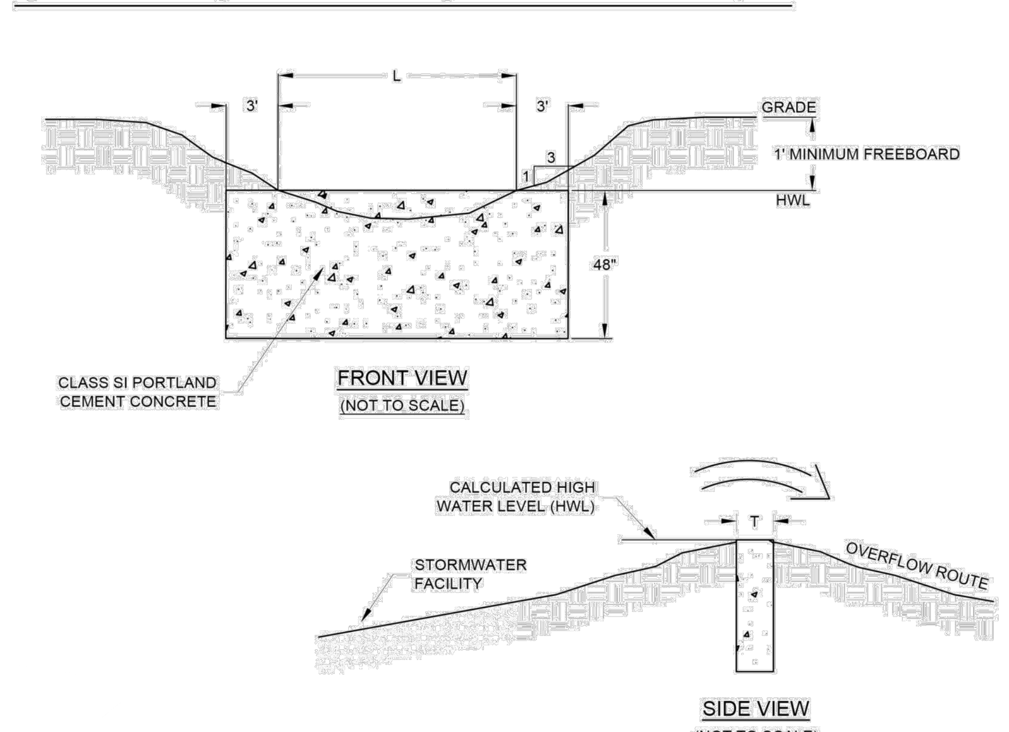


FIGURE # 27

RQAW
DCCM

PERMIT SET

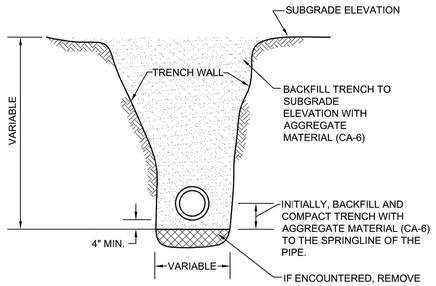
EXTRA SPACE STORAGE, INC.
ESS NAPERVILLE STORAGE #1259
1432 W OGDEN AVE. NAPERVILLE, IL 60563

#	Revision	Date
2	CITY REVIEW COMMENTS	08/22/24
3	CITY REVIEW COMMENTS	10/31/24

Project #: 23-700-300-1
Designed By: MDL
Drawn By: RLH
Checked By: ALC
Date: 10.31.2024

CONSTRUCTION DETAILS

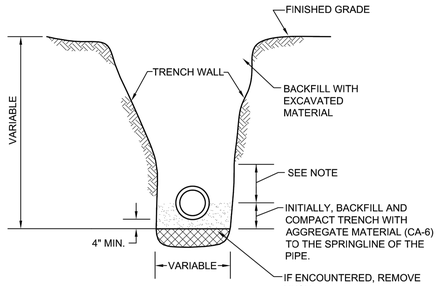
C600



NOTES:

1. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. THIS DETAIL SHALL BE USED WHEREVER THE TRENCH IS MADE IN THE PROPOSED ROADWAY SUBGRADE, AND WHEREVER THE INNER EDGE OF THE TRENCH IS CLOSER THAN 2' TO THE EDGE OF THE PROPOSED PAVEMENT, CURB AND GUTTER, AND SIDEWALK.

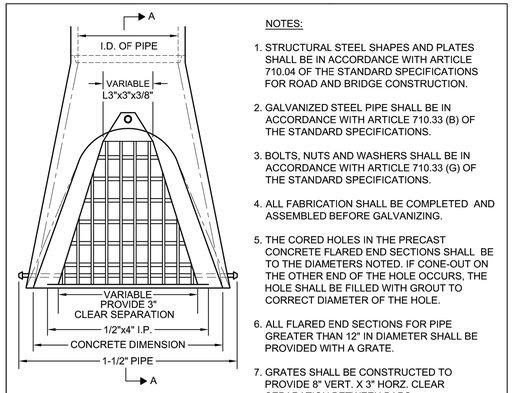
City of Naperville STANDARD DETAIL	STORM SEWER TRENCH SECTION IN PAVED AREAS	STORM 20
	REVISED: 01/01/2013 SHEET 1 OF 1	290.20



NOTE:

FOR PVC AND HDPE PIPE, BACKFILL WITH AGGREGATE MATERIAL (CA-6) TO 6" ABOVE THE TOP OF PIPE.

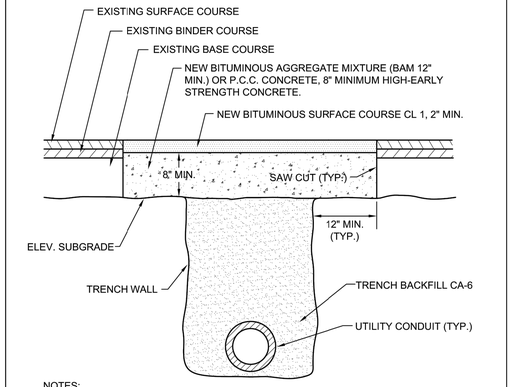
City of Naperville STANDARD DETAIL	STORM SEWER TRENCH SECTION IN NON-PAVED AREAS	STORM 21
	REVISED: 01/01/2013 SHEET 1 OF 1	290.21



NOTES:

1. STRUCTURAL STEEL SHAPES AND PLATES SHALL BE IN ACCORDANCE WITH ARTICLE 710.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. GALVANIZED STEEL PIPE SHALL BE IN ACCORDANCE WITH ARTICLE 710.33 (B) OF THE STANDARD SPECIFICATIONS.
3. BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 710.33 (G) OF THE STANDARD SPECIFICATIONS.
4. ALL FABRICATION SHALL BE COMPLETED AND ASSEMBLED BEFORE GALVANIZING.
5. THE CORED HOLES IN THE PRECAST CONCRETE FLARED END SECTIONS SHALL BE TO THE DIAMETERS NOTED. IF CONE-OUT ON THE OTHER END OF THE HOLE OCCURS, THE HOLE SHALL BE FILLED WITH GROUT TO CORRECT DIAMETER OF THE HOLE.
6. ALL FLARED END SECTIONS FOR PIPE GREATER THAN 12" IN DIAMETER SHALL BE PROVIDED WITH A GRATE.
7. GRATES SHALL BE CONSTRUCTED TO PROVIDE 8" VERT. X 3" HORZ. CLEAR SEPARATION BETWEEN BARS.

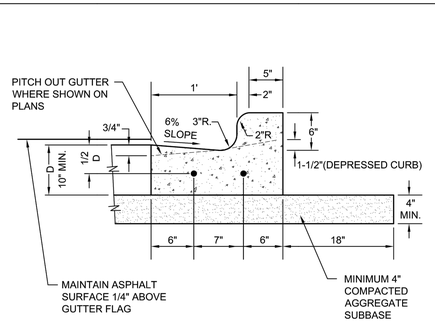
City of Naperville STANDARD DETAIL	GRATING FOR CONCRETE FLARED END SECTION	STORM 22
	REVISED: 01/01/2013 SHEET 1 OF 1	290.22



NOTES:

1. THE TRENCH SHALL BE BACKFILLED WITH AGGREGATE (CA-6) AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. TRENCH SPOILS OR EXCAVATED MATERIAL SHALL BE DISCARDED BY THE CONTRACTOR, AT HIS EXPENSE, AT DUMP SITES OR IN A SUITABLE FASHION AS APPROVED BY THE CITY ENGINEER.
2. PRIOR TO PLACING OF P.C.C. CONCRETE, THE EXPOSED EDGES OF ALL EXISTING PAVEMENT SHALL BE SAW CUT TO PROVIDE A SMOOTH, CLEAN EDGE, FREE OF LOOSE MATERIAL.
3. EXCAVATIONS SHALL BE PROTECTED BY BARRICADES WITH FLASHING LIGHTS. A 1" STEEL PLATE SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT LOCATIONS WHERE ADJUSTMENTS ARE LOCATED IN TRAVEL LANES UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND PROVIDED WITH BITUMINOUS RAMPS.
4. TRENCH TO BE COMPACTED IN CONFORMANCE WITH ARTICLE 603.08(METHOD 3) OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

City of Naperville STANDARD DETAIL	UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS)	PAVEMENT 13
	REVISED: 01/01/2013 SHEET 1 OF 1	590.13



NOTES:

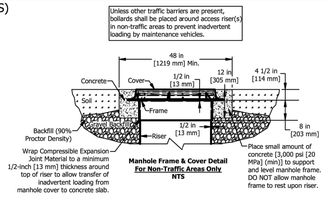
1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

City of Naperville STANDARD DETAIL	B6.12 BARRIER CURB & GUTTER	PAVEMENT 20
	REVISED: 01/01/2013 SHEET 1 OF 1	590.20

Aqua-Swirl® Polymer Coated Steel (PCS) Stormwater Treatment System

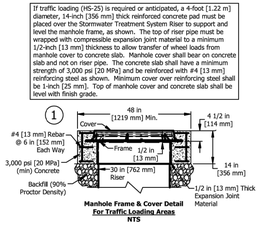
Projected View
SCALE 1:60

Unless other traffic barriers are present, bollards shall be placed around access riser(s) in non-traffic areas to prevent inadvertent loading by maintenance vehicles.



Manhole Frame & Cover Detail For Non-Traffic Areas Only NTS

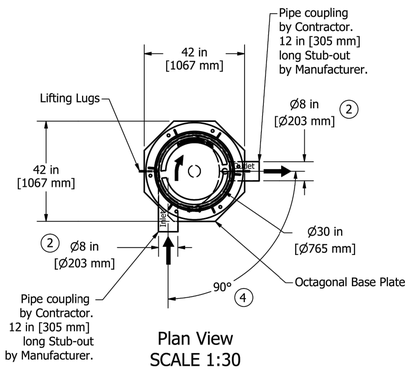
If traffic loading (HS-25) is required or anticipated, a 4-foot [1.22 m] diameter, 14-inch [356 mm] thick reinforced concrete pad must be placed over the Stormwater Treatment System Riser to support and level the manhole frame, as shown. The top of riser pipe must be wrapped with compressible expansion joint material to a minimum 1/2-inch [13 mm] thickness to allow transfer of wheel loads from manhole cover to concrete slab. Manhole cover shall bear on concrete slab and not on riser pipe. The concrete slab shall have a minimum strength of 3,000 psi [20 MPa] and be reinforced with #4 [13 mm] reinforcing steel as shown. Minimum cover over reinforcing steel shall be 1-inch [25 mm]. Top of manhole cover and concrete slab shall be level with finish grade.



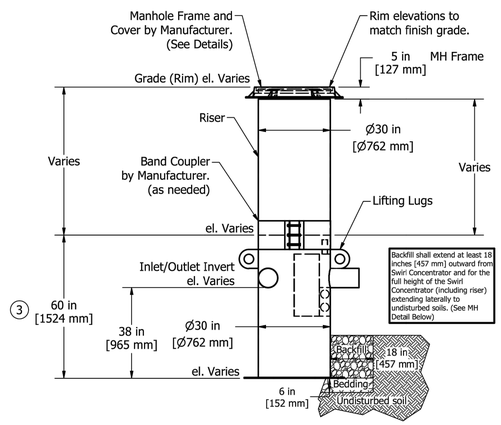
Manhole Frame & Cover Detail For Traffic Loading Areas NTS

Please see accompanied Aqua-Swirl® specification notes. See Site Plan for actual system orientation. Approximate dry (pick) weight: 1000 lbs [500 kg].

1. As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [356 mm] thickness must be maintained.
2. AS-2 inlet/outlet pipe size ranges from 4 in [102 mm] to 8 in [203 mm].
3. AS-2 chamber height may vary from 48 in [1219 mm] to 60 in [1524 mm], depending on inlet/outlet pipe size.
4. Orientation may vary from 90°, 180°, or custom angles to meet site conditions.



Plan View
SCALE 1:30



Elevation View
SCALE 1:30

AquaShield
STORMWATER TREATMENT SOLUTIONS
2733 Kanasita Drive, Suite 111, Chattanooga, TN 37343
Phone (888) 344-9044 Fax (423) 826-2112
www.aquashieldinc.com

Aqua-Swirl® Concentrator
AS-2 Standard CW

Standard Detail

Structure #:	AS-2 STD	Rvwed	Rvw. Date
Drawn By:	OFlores		
Scale:	As Shown		
Date:	9/8/2022		

U.S. Patent No. 6524473 and other Patent Pending

RQAW
DCCM

PERMIT SET

EXTRA SPACE STORAGE, INC.
ESS NAPERVILLE STORAGE #1259
1432 W OGDEN AVE. NAPERVILLE, IL 60563

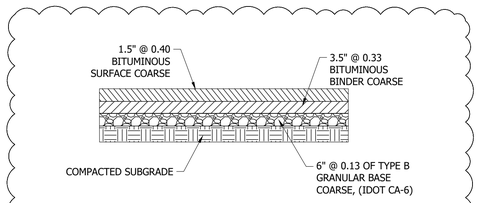
#	Revision	Date
2	CITY REVIEW COMMENTS	08/22/24
3	CITY REVIEW COMMENTS	10/31/24

Project #: 23-700-300-1
Designed By: MDL
Drawn By: RLH
Checked By: ALC
Date: 10.31.2024

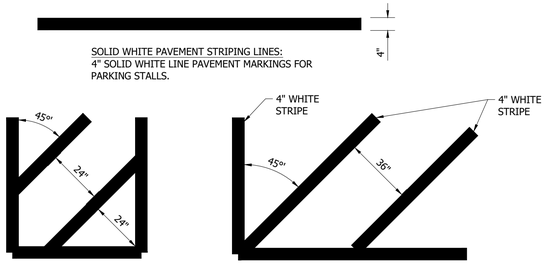
LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

CONSTRUCTION DETAILS

C601



1 LIGHT DUTY PAVEMENT DETAIL
NOT TO SCALE

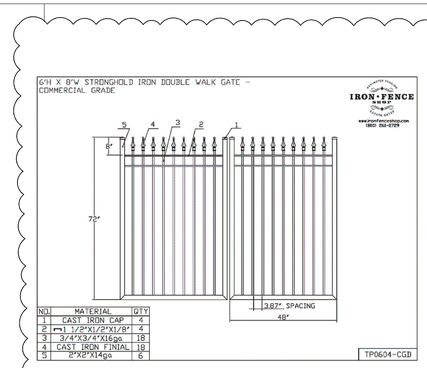


3

PAINTED ISLANDS:
4" SOLID BLUE LINE PAVEMENT MARKINGS FOR ADA ISLANDS. 4" SOLID WHITE LINE PAVEMENT MARKINGS FOR NON-ADA ISLANDS

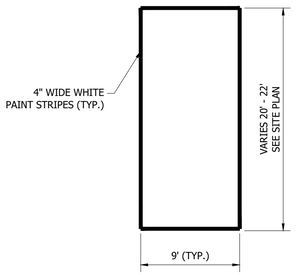
PAINTED CROSSWALKS:
4" SOLID WHITE LINE PAVEMENT MARKINGS

2 PAVEMENT STRIPING DETAIL
NOT TO SCALE

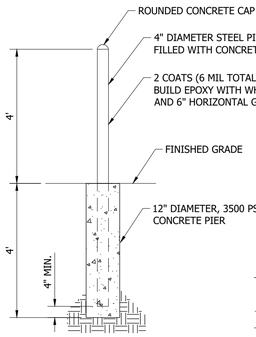


3 BLACK COATED IRON FENCE DETAIL
NOT TO SCALE

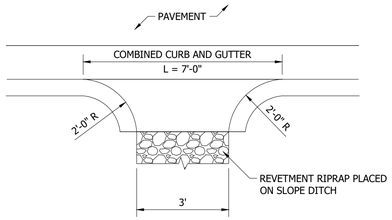
NOTE:
FENCE IS LOCATED ALONG THE FRONT PROPERTY LINE AND EXTENDED SOUTH ALONG THE EAST AND WEST SOUTH PROPERTY LINE UNTIL THE FENCE IS IN LINE WITH THE FRONT WALL OF THE BUILDING.ROD SPACING SHOULD BE SUCH THAT THE TOTAL OPEN FACE AREA OF THE FENCE IS 30% OR MORE



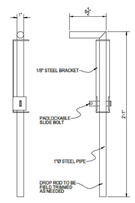
4 PARKING STALL DETAIL
NOT TO SCALE



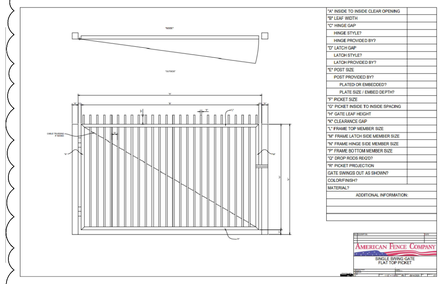
5 BOLLARD DETAIL
NOT TO SCALE



6 COMBINED CURB AND GUTTER TURNOUTS DETAIL
NOT TO SCALE

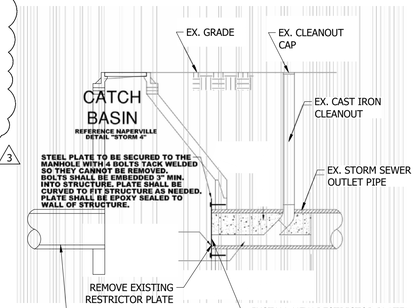


DROP ROD DETAIL

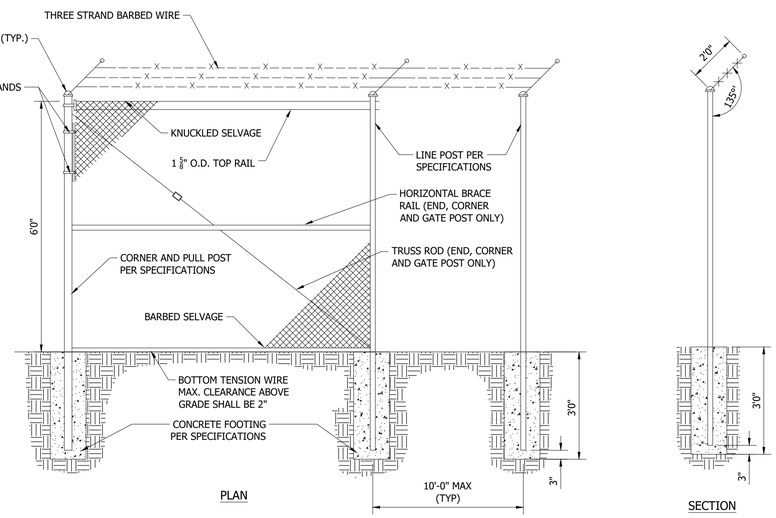


9 BLACK COATED IRON SNOW GATE DETAIL
NOT TO SCALE

3



8 RESTRICTOR PLATE DETAIL
NOT TO SCALE



7 BLACK COATED CHAIN LINK FENCE DETAIL
NOT TO SCALE

3

3' Pedestrian Gate
Ornamental Aluminum picket to match the vertical lift gate. See B2.2.6. for detail

Self Closing Hinges and ADA approved lever passage hardware that locks and does note allow access from outside the gate.

Provide expanded metal mesh over gate to prevent access to inside handle

Security Lift Gate
Autogate style 500 Buckeye 18'-21' vertical lift gate. See 2.2.3, C2.2.3. for Specifications

Miller Safety edge @ bottom of gate. See C2.2.3.d

No Walk Zone stripping. See C 2.4.6. for paint specs.

Entry & Exit drive aisle loop detectors and Infrared Photo Beam. See UL325 Specs-Sheet C2.2.3a

If repainting existing gate, gate color to be SW 6258 Tricorn Black

SECURITY CAMERA
Clinton Electonics-CE-VX1HD. Order from SMS
See section 5.3, C5.3

Keypad Bollard
To be painted Safety Yellow

Locate to be accessed from drivers window

See Section C5.2.1. for cutsheet/ specifications

Asphalt / Concrete
See specifications for new asphalt / concrete construction and for repair / replacement. See Section 2.4, C2.4. for Asphalt Spec.

Facilities Standards
Entry Gate / Keypad Bollard
D2.2.3

8 ENTRY GATE AND KEYPAD BOLLARD DETAIL
NOT TO SCALE

3

Extra Space Standards Manual
2023

concrete. Fencing shall sit six feet high. Galvanized nails or screws shall be used.

In more conspicuous areas, use vinyl, TREX, stucco or other aesthetically pleasing materials.

2.2.3 Vehicular Access Gate (Security Gate)

Design: Vertical Lift Gate (All new gates)
Gate system shall be Autogate style 500 Buckeye 18'-21' vertical lift, and must be UL-325 compliant. Provide Knox Box on vehicular gate where required by code. See C2.2.3 and D2.2.3 for vertical gate detail. No substitutions.

Provide Miller Edge on all gates. See C2.2.3d

Provide photo eye on all gates. See C2.2.3c

Alternate Design: If site conditions or code require-use alternate gates in drawings. See drawings and detail section.

See Section 5.2 for access software.

Barrier Arms: Not used for new construction. If repair cost exceeds the cost of removal, barrier arm is to be removed.

Alternate Design: (Maintenance and Repair)

Slide Gate (cantilever): Cold climate areas gate system shall be black aluminum cantilevered slide gate covered with black mesh. A minimum 20 ft. wide opening recommended; however, actual width will depend on space available and local fire department jurisdiction requirements. Total gate length shall be 150% of actual gate opening Slide Gate. Gate operator shall be Elite SL-3000-1HP slide gate operator and must be UL-325 compliant. See C2.2.3.a Provide Knox Box on vehicular gate and battery back-up where required by code. For cantilevered gate detail, See C2.2.3b

Slide Gate (V Track)-Warm climate areas: Gate system shall be black aluminum V Track enclosed roller slide gate covered with black mesh. A minimum 20 ft. wide opening recommended, however, actual will depend on space available and local fire department jurisdiction requirements. Total gate length shall be 125% of actual gate opening. Gate operator shall be Elite SL-3000-1HP slide gate operator and must be UL-325 compliant. See C2.2.3.a This gate system is not a good option for sites where snow blowing is required. Provide Knox Box on vehicular gate ad battery back-up where required by code. For V Track detail, See C2.2.3b

Existing ornamental iron/aluminum fences to be painted SW6258 Tricorn Black.

2.2.4 Secondary Access Gate

Locations: As required by site conditions and fire department requirements.

Design: Match adjacent fencing material for manually operated gate with a 12' opening. Preferred design is black vinyl coated chain-link, post, rails and components.

RQAW
DCCM

PERMIT SET

EXTRA SPACE STORAGE, INC.
ESS NAPERVILLE
STORAGE #1259
1432 W OGDEN AVE. NAPERVILLE, IL 60563

#	Revision	Date
2	CITY REVIEW COMMENTS	08/22/24
3	CITY REVIEW COMMENTS	10/31/24

Project #: 23-700-300-1
Designed By: MDL
Drawn By: RLH
Checked By: ALC
Date: 10.31.2024

LICENSED PROFESSIONAL ENGINEER
AARON CROW
062-075899
OF ILLINOIS

CONSTRUCTION DETAILS

C602