

THE ENGINEER AND HIS CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE DELIVERABLES HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE DELIVERABLES, THE ENGINEER SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT TO THE ENGINEER, OR IN CONTRADICTION TO THE ENGINEER'S DELIVERABLES OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER BUT OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

FINAL ENGINEERING PLANS

FOR

622 GRACELAND AVE. APARTMENTS

DESPLAINES, ILLINOIS

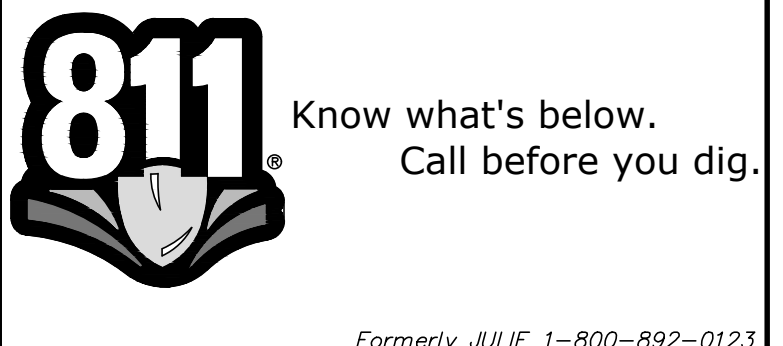
DATE	REVISIONS	DRAWN BY
01/17/23	CITY REVIEW #1 & ARCHITECT REVISIONS	TLM
02/17/23	ARCHITECT REVISIONS	TLM
02/27/23	PER CITY REVIEW	TLM

622 GRACELAND AVE. APARTMENTS
 DESPLAINES, ILLINOIS
TITLE SHEET

RWG Engineering, LLC
 975 E. 22nd St, Suite 400
 Wheaton, IL 60189
 630.480.7889
 www.rwg-engineering.com
 Civil Engineering • Real Estate Consulting • Project Management

	EXISTING	PROPOSED
SANITARY MANHOLE	⊙	⊙
STORM MANHOLE	⊙	⊙
CATCH BASIN	○	○
INLET	□	■
PRECAST FLARED END SECTION	▽	▽
CONCRETE HEADWALL	⊗	⊗
VALVE VAULT	⊗	⊗
VALVE BOX	⊗	⊗
FIRE HYDRANT	⊗	⊗
BUFFALO BOX	⊗	⊗
CLEANOUT	⊗	⊗
SANITARY SEWER	—	—
FORCE MAIN	—	—
STORM SEWER	—	—
WATER MAIN	—	—
CONSTRUCT WATER MAIN UNDER SEWER	—	—
GRANULAR TRENCH BACKFILL	—	—
STREET LIGHT	—	—
ELECTRICAL CABLE	—	—
2" CONDUIT ENCASEMENT	—	—
ELECTRICAL TRANSFORMER OR PEDESTAL	—	—
POWER POLE	—	—
STREET SIGN	—	—
GAS MAIN	—	—
TELEPHONE LINE	—	—
CONTOUR	—	—
SPOT ELEVATION	X (750.00)	X 750.00
WETLANDS	—	—
FLOODWAY	—	—
FLOODPLAIN	—	—
HIGH WATER LEVEL (HWL)	—	—
NORMAL WATER LEVEL (NWL)	—	—
DIRECTION OF SURFACE FLOW	—	—
DITCH OR SWALE	—	—
OVERFLOW RELIEF ROUTING	—	—
SLOPE BANK	—	—
TREE WITH TRUNK SIZE	—	—
SOIL BORING	—	—
TOPSOIL PROBE	—	—
FENCE LINE, WIRE OR SILT	—	—
FENCE LINE, CHAIN LINK OR IRON	—	—
FENCE LINE, WOOD OR PLASTIC	—	—
CONCRETE SIDEWALK	—	—
CURB AND GUTTER	—	—
DEPRESSED CURB	—	—
REVERSE PITCH CURB & GUTTER	—	—
EASEMENT LINE	—	—

ABBREVIATIONS	
BL	BASE LINE
C	LONG CHORD OF CURVE
C & G	CURB AND GUTTER
CB	CATCH BASIN
CL	CENTERLINE
D	DEGREE OF CURVE
EP	EDGE OF PAVEMENT
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOW LINE
FP	FLOODPLAIN
FR	FRAME
FW	FLOODWAY
HWL	HIGH WATER LEVEL
INV	INVERT
L	LENGTH OF CURVE
MH	MANHOLE
NWL	NORMAL WATER LEVEL
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
ROW	RIGHT-OF-WAY
SAN	SANITARY SEWER
ST	STORM SEWER
T	TANGENCY OF CURVE
TB	TOP OF BANK
TC	TOP OF CURB
TF	TOP OF FOUNDATION
TP	TOP OF PIPE
TS	TOP OF SIDEWALK
TW	TOP OF WALK
WM	WATER MAIN
Δ	INTERSECTION ANGLE



CONTACTS

CITY OF DESPLAINES
 Northern Illinois Gas (NICOR)
 Mr. David Surino
 1844 West Ferry Road, Naperville, IL 60563
 630-629-3500 (x335), dsurino@nigresources.com

AT&T (Formerly SBC or Illinois Bell Telephone Company)
 Ms. Sue Monshum
 2004 Dempster/Miner Street, Des Plaines, IL 60016
 847-759-5603, sm9231@att.com

Commonwealth Edison (Excelsior)
 Mr. Jack O'Brien
 3 Lincoln Centre, Oak Brook Terrace, IL 60181
 630-437-2463, john.obrien@comed.com

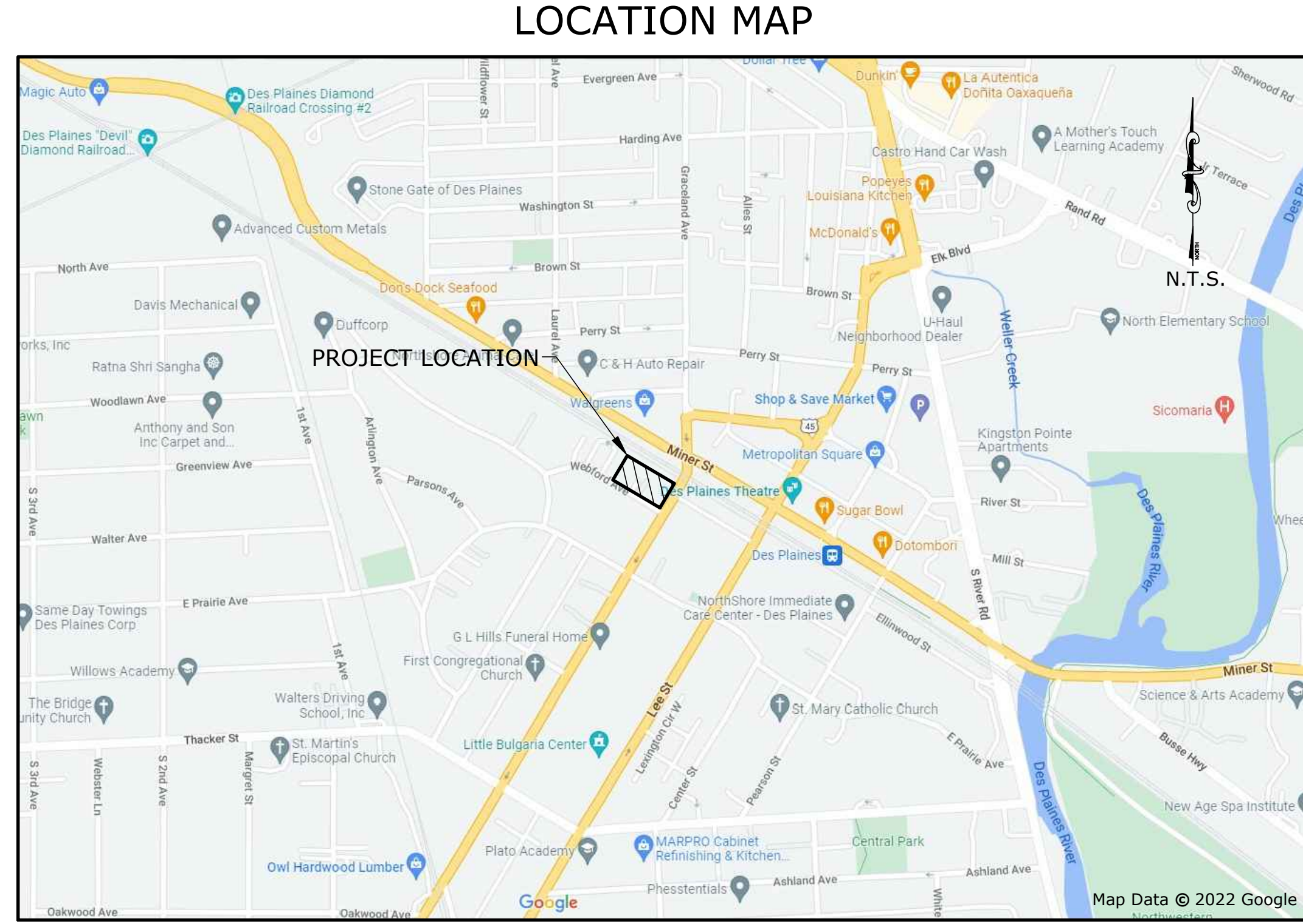
Wide Open West (WOW) (Cable Television)
 Mr. Brian Hurd
 1030 National Parkway, Schaumburg, IL 60173
 630-699-5227

Comcast (Cable Television)
 Mr. Frank Gautier, Right-of-way Engineer
 688 Industrial Drive, Elmhurst, IL
 630-600-6348, Frank_Gautier@cable.comcast.com

City of Des Plaines
 Community & Economic Development: 847-391-5380
 1420 Miner Street
 Des Plaines, IL 60016

Public Works Department: 847-391-5464
 1111 Joseph J Schwab Rd
 Des Plaines, IL 60016

JULIE
 Underground Utility Locations
 1-800-892-0123
 811



"TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF THIS PROJECT, OR, THAT IF DRAINAGE WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS APPROVED FOR USE BY THE CITY, AND THAT SUCH SURFACE WATERS ARE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO ADJOINING PROPERTIES BECAUSE OF THE CONSTRUCTION OF THIS PROJECT."

Maurice R. Mulligan
 REGISTERED PROFESSIONAL ENGINEER

EXPIRATION DATE: 11/30/23

GENERAL NOTES

- The contractor shall notify the following governmental agencies at least two working days prior to commencement of construction:
 - City of Des Plaines Public Works Department (847-391-5464)
 - MWRD Local Sewer System Sections Field Office (708-588-4055)
- The contractor shall notify all utility companies and arrange for their facilities to be located prior to work in any easement, right-of-way, or suspected utility location. Repair of any damage to existing facilities shall be the responsibility of the contractor. Utility locations shown herein are for graphic illustration only and are not to be relied upon.
- Prior to commencement of any offsite construction, the contractor shall secure written authorization that all offsite easements have been secured, and that permission has been granted to enter onto private property.
- Elevations shown herein reflect NAVD 1988 datum.
- The boundary and topographic survey data for this project is based on a field survey prepared by Gentile and Associates, Inc, dated September 19, 2022. The contractor shall verify existing conditions prior to commencing construction and shall immediately notify the engineer in writing of any differing conditions.
- RWG Engineering, LLC, its employees and agents are not responsible for the safety of any party at or on the construction site. Safety is the sole responsibility of the contractor, and any other entity performing work at the site. Neither the owner nor the engineer assumes any responsibility for job site safety or for the means, methods or sequences of construction.
- Except where modified by the contract documents, all work proposed hereon shall be in accordance with the following specifications, which are hereby made a part hereof:
 - "Standard Specifications for Road and Bridge Construction in Illinois," as prepared by I.D.O.T. latest edition.
 - "Standard Specifications for Water and Sewer Main Construction in Illinois," latest edition.
 - "Illinois Recommended Standards for Sewage Works," as published by the I.E.P.A., latest edition.
 - The subdivision and development codes and standards of the City of Des Plaines, as published by the Municipality.
 - "Illinois Accessibility Code" as published by the State of Illinois Capital Development Board, effective October 23, 2018.
 - The National Electric Code.
 - "Illinois Urban Manual" as prepared by the U.S. Dept. of Agriculture latest edition.
- The City of Des Plaines Development Ordinance shall take precedence if a conflict in project specifications occurs. City details to supercede all others.
- City requires 48 hour notice for inspections.

INDEX OF SHEETS

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- EXISTING CONDITIONS PLAN – WEST
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- DEMOLITION PLAN – WEST
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- CONSTRUCTION STANDARDS AND DETAILS
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- IDOT CONSTRUCTION STANDARDS AND DETAILS
- IDOT CONSTRUCTION STANDARDS AND DETAILS

BENCHMARKS

BASIS OF BEARINGS:
 ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE

BENCHMARK:
 CITY OF DES PLAINES BENCHMARK NO. 61. MONUMENT SET IN CONCRETE AT THE NORTHEAST CORNER OF PRAIRIE & FIRST AVENUE, 75' EAST OF THE RAILROAD TRACKS AND 12' NORTH OF THE EDGE OF PAVEMENT OF PRAIRIE. ELEVATION 640.05 (NAVD 88 DATUM), MEASURED ELEVATION 640.12

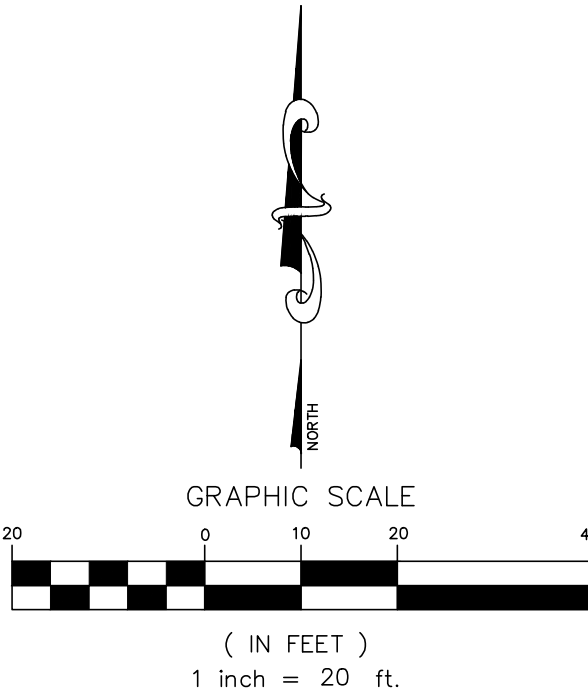
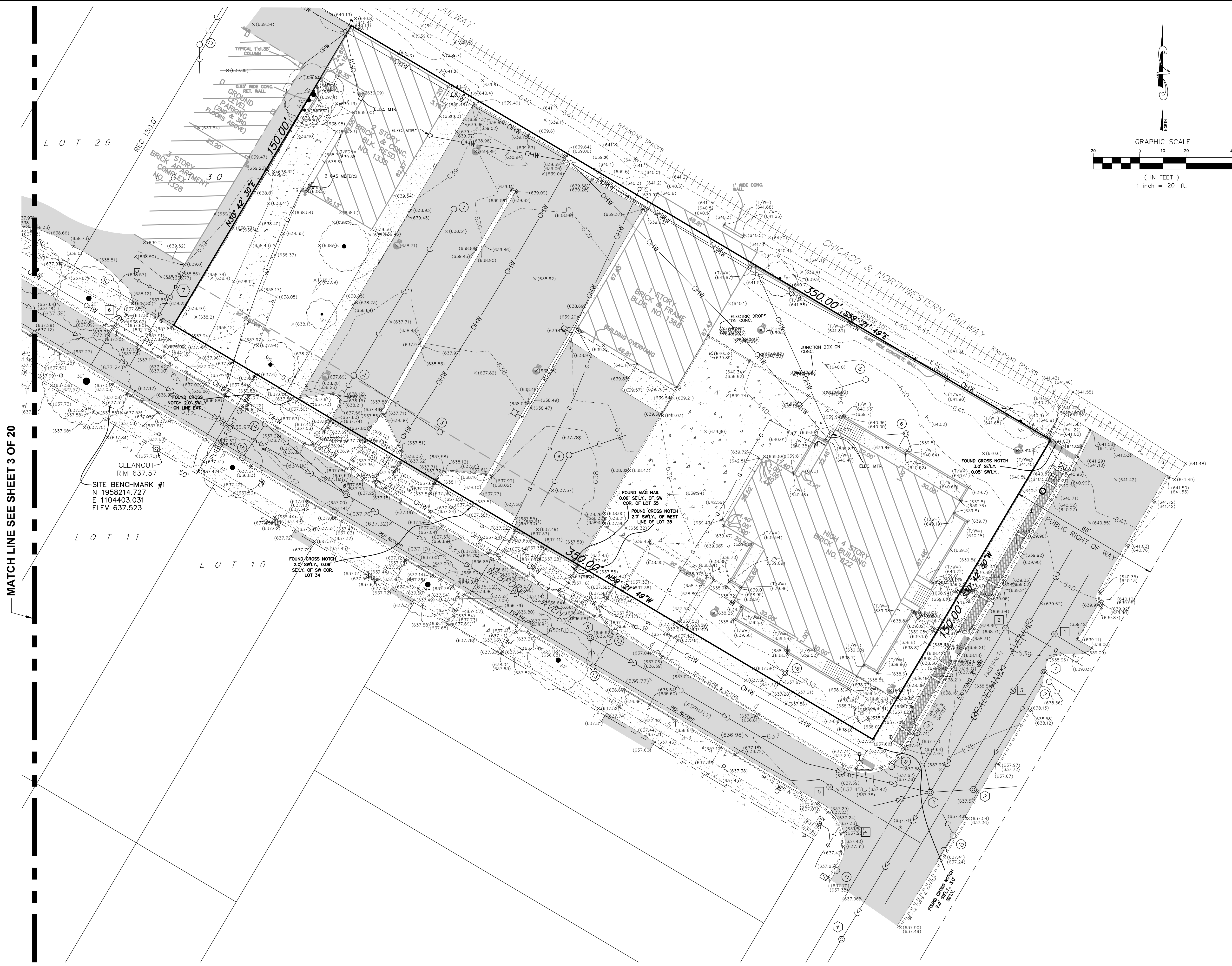
SITE BENCHMARKS:
 NO. 1
 CROSS NOTCH 2' SOUTH OF THE SOUTHWEST CORNER OF LOT 34
 ELEVATION 637.45 (NAVD 88 DATUM)

NO. 2
 CROSS NOTCH 2' SOUTH AND 3' EAST OF THE SOUTHEAST CORNER OF LOT 37
 ELEVATION 637.57 (NAVD 88 DATUM)

TITLE POLICY PROVIDED FOR PARCEL 3 MAKES NOTE OF AN EXCEPTION TO COVERAGE THAT INCLUDES AN EASEMENT FOR SEVERAL UTILITIES PER DOC. NO. LR1429065. SURVEYOR WAS NOT PROVIDED DOCUMENT BY TITLE COMPANY AND WAS NOT ABLE TO OBTAIN DOCUMENT FROM COOK COUNTY RECORDER'S OFFICE. BEFORE EXCAVATION, BUILDING OR ANY DISTURBANCE WITHIN SUBJECT PROPERTY OBTAIN DOCUMENT FOR PARTICULARS AND LOCATION OF SAID EASEMENT.

Maurice R. Mulligan
 REGISTERED PROFESSIONAL ENGINEER
 ILLINOIS

EXPIRATION DATE: 11/30/23



SURVEY NOTE
THE INFORMATION SHOWN HEREON IS BASED ON A BOUNDARY AND TOPOGRAPHIC SURVEY GENTILE AND ASSOCIATES, INC. PLAN OF SURVEY DATED SEPTEMBER 19, 2022.

ABBREVIATIONS LEGEND
(IN ADDITION TO TITLE SHEET LEGEND)

- EX = EXISTING
- PR = PROPOSED
- BC = BACK OF CURB
- FC = FACE OF CURB
- EP = EDGE OF PAVEMENT
- PL = PROPERTY LINE
- FB = FACE OF BUILDING
- EC = EDGE OF CONCRETE
- RW = RETAINING WALL
- ROW = RIGHT OF WAY
- BC/BO = BACK OF CURB TO BACK OF CURB
- SW = SIDEWALK
- R = RADIUS
- (TYP) = TYPICAL

EXISTING UTILITY STRUCTURE SCHEDULE - EAST

SANITARY SEWER STRUCTURES	
1 EX SAN M.H. RIM=638.77 INV=632.47 (15" VCP E) INV=633.12 (10" VCP SE) INV=632.42 (15" VCP S)	2 EX SAN M.H. RIM=637.57 INV=632.37 (15" VCP N) INV=632.67 (10" NE) INV=632.07 (15" SW)
3 EX SANI COMBINATION M.H. RIM=637.83 INV=631.39 (N) (RECORDS SHOW A M.H. IN THE STREET NEAR NORTH END OF PROPERTY, NONE WAS FOUND AND NO INDICATION OF ONE WAS FOUND)	4 EX SANI COMBINATION M.H. RIM=638.61 INV=630.71 (24" S)
5 EX SAN COMBINATION M.H. RIM=636.78 INV=631.33 (12" E) INV=631.38 (12" W) INV=631.60 (SE)	6 EX SAN COMBINATION M.H. RIM=637.17 INV=631.42 (12" E) INV=632.87 (12" W) INV=631.57 (12" W)
7 EX SAN M.H. RIM=638.29 INV=632.96 (8" VCP NE) INV=633.16 (6" VCP NW) INV=632.88 (8" VCP SW)	

STORM SEWER STRUCTURES	
1 EX STM C.B. RIM=638.65 INV=634.23 (6" VCP S)	2 EX STM C.B. RIM=637.21 INV=632.46 (6" VCP N) INV=632.46 (6" VCP ±S) INV=633.66 (10" RCP E)
3 EX STM C.B. RIM=637.21 INV=634.26 (10" RCP W)	4 EX STM C.B. RIM=637.28 INV=635.98 (6" CP NE) INV=634.73 (6" CP S)
5 EX STM INLET RIM=639.01 INV=635.51 (L" SW)	6 EX STM M.H. RIM=640.10 TOP OF 8" PIPE=630.63 (S) INV=631.20 (SW) INV=630.60 (SE)
7 EX STM C.B. RIM=638.58 INV=635.53 (12" RCP SE)	8 EX STM C.B. RIM=637.45 INV=634.90 (6" VCP NW) INV=633.00 (10" SE) INV=634.20 (6" PVC S)
9 EX STM INLET RIM=637.41 INV=635.01 (6" PVC N)	10 EX STM C.B. RIM=637.20 INV=635.70 (6" VCP NW) INV=632.80 (8" VCP S)
11 EX STM INLET RIM=637.04 FILLED WITH DEBRIS	12 EX STM CURB C.B. RIM=636.40 TOP OF PIPE TO SOUTH=634.40
13 EX STM CURB C.B. RIM=636.46 TOP OF PIPE TO NORTH=634.16 INV=632.86 (NW)	14 EX STM CURB C.B. RIM=636.72 TOP OF 12" PIPE TO EAST=634.37 INV=633.47 (12" S)
15 EX STM CURB C.B. RIM=636.74 TOP OF PIPE TO NORTH=634.69 (PVC INSIDE RCP)	16 EX STM M.H. RIM=638.82 INV=632.22 (N,S) INV=632.27 (E) INV=632.42 (W) ALL PIPES ARE ±8"
17 EX STM C.B. RIM=638.62 INV=635.67 (6" DIP N) INV=635.52 (6" DIP SE)	

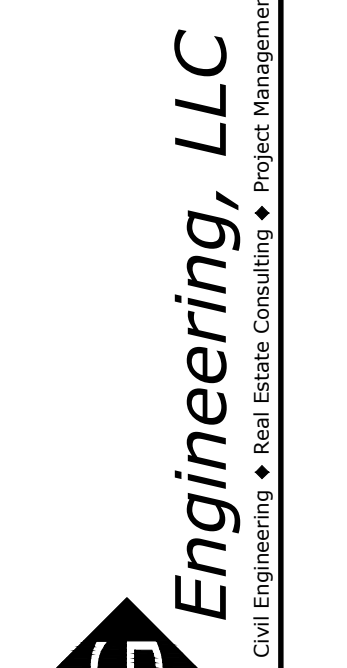
WATERMAIN STRUCTURES	
1 EX VALVE VAULT (NEW) RIM=639.28 T/P=632.28 PER RECORDS THE NEW MAIN GOING EAST IS 10" D.I.P. AND THE SOUTH IS 8" - RECORD SHOWS NO MAIN HEADING NORTH, BUT IS VISIBLE IN FIELD. RECORDS SHOW IT CONNECTING TO OLD MAIN COMING FROM VAULT NO. 2 BUT NOT VISIBLE IN FIELD	2 EX VALVE VAULT RIM=638.95 T/P=633.45 RECORDS SAY IT IS 8"
4 EX VALVE VAULT RIM=637.46 FULL OF SILT AT ELEV=634.76 MOST LIKELY HAVING BEEN PART OF THE OLD MAIN CONNECTING TO VAULT NO. 2. RECORDS SHOW NO VAULT HERE WHERE	5 EX VALVE VAULT RIM=637.42 T/P=628.12 RECORDS SAY THIS IS 8" AND GENERALLY AGREE WITH FIELD MARKINGS AND CONNECTION TO NEW MAIN IN THE EASTERLY SIDE OF THE RIGHT OF WAY
6 EX VALVE VAULT RIM=638.02 UNABLE TO OPEN	

- 2 SANITARY STRUCTURE NUMBER
- 11 STORM STRUCTURE NUMBER
- 5 WATERMAIN STRUCTURE NUMBER

DATE: 01/17/23
CITY REVIEW BY: TLM
ARCHITECT REVISIONS: 1
02/17/23
PER CITY REVIEW: 1
02/27/23

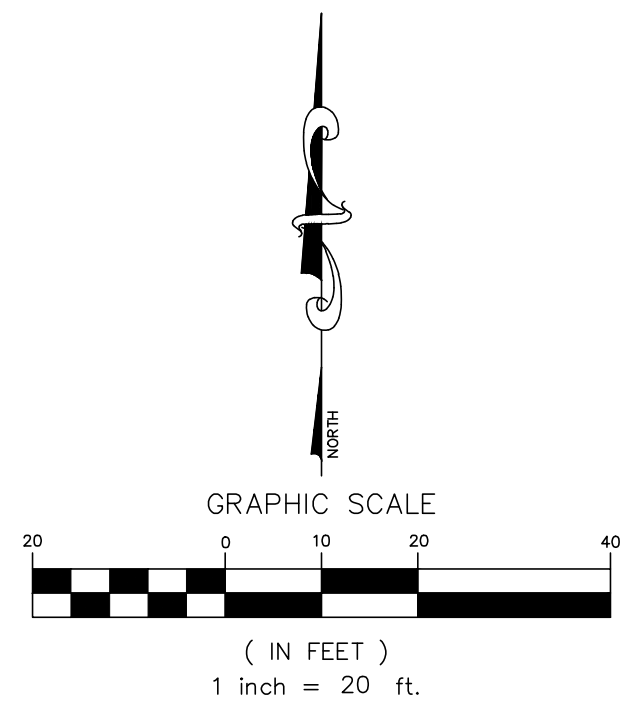
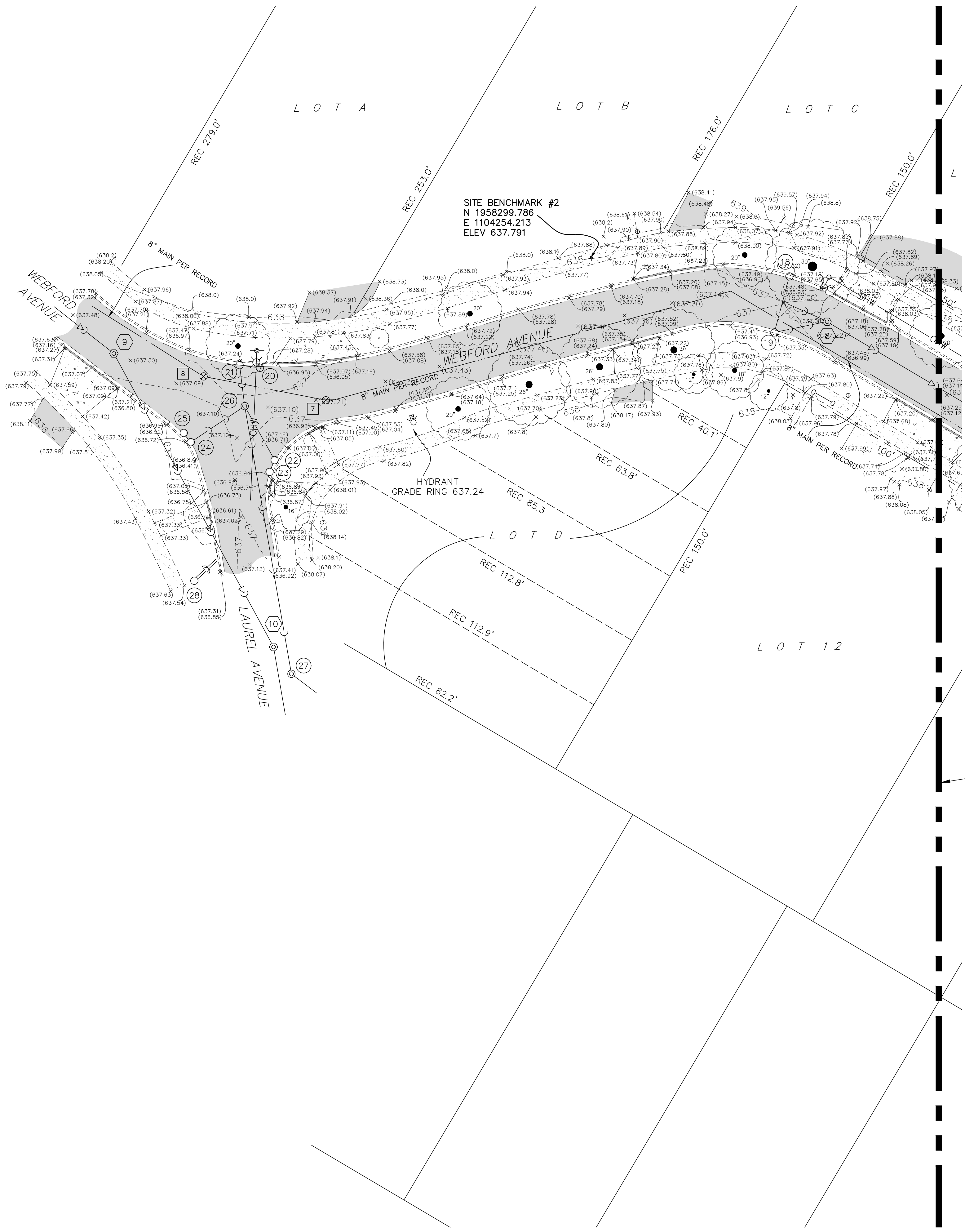
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DESPLAINES, ILLINOIS
EXISTING CONDITIONS PLAN - EAST

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PROJECT NO: 63912021
DATE: 12/09/22
SCALE: 1"=20'
PROJ. MGR.: MKR
PROJ. ASSOC.: MKR
DRAWN BY: TLM

February 22, 2023 11:04:11 a.m. AcadVer:22.0a (LMS Tech)
Drawing: S:\63912021 - 622 GRACELAND AVE. APARTMENTS_ENGINEERING\110_CADD\110_V1630_BASE.DWG



SURVEY NOTE
THE INFORMATION SHOWN HEREON IS BASED ON A BOUNDARY AND TOPOGRAPHIC SURVEY GENTILE AND ASSOCIATES, INC. PLAT OF SURVEY DATED SEPTEMBER 19, 2022.

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(IN ADDITION TO TITLE SHEET LEGEND)**

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RW	=	RETAINING WALL
ROW	=	RIGHT OF WAY
BC/BC	=	BACK OF CURB TO BACK OF CURB
SW	=	SIDEWALK
R	=	RADIUS
(TYP)	=	TYPICAL

EXISTING UTILITY STRUCTURE SCHEDULE - WEST

SANITARY SEWER STRUCTURES

8	EX SAN COMBINATION M.H. RIM=637.20 INV=632.54 (8" DIP NW) INV=631.75 (12" RCP SE) INV=633.21 (12" RCP SW)	9	EX SAN COMBINATION M.H. RIM=637.25 INV=631.33 (24" RCP NW) INV=631.25 (24" RCP SE)
10	EX SAN COMBINATION M.H. RIM=637.39 INV=631.39 (24" RCP NW) INV=631.29 (24" RCP SE)		

STORM SEWER STRUCTURES

18	EX STM C.B. RIM=636.76 TOP OF 8" PVC SW 634.76 (IN 12" RCP)	19	EX STM C.B. RIM=636.76 INV=633.73 (12" RCP NNE) (IN 12" RCP)
20	EX STM C.B. RIM=636.66 INV=633.73 (12" RCP NW)	21	EX STM C.B. RIM=636.66 INV=633.56 (12" RCP E) INV=633.46 (12" RCP SE)
22	EX STM C.B. RIM=636.66 INV=631.26 (12" RCP NW) INV=633.59 (12" RCP SW)	23	EX STM C.B. RIM=636.72 INV=633.52 (12" RCP NE)
24	EX STM C.B. RIM=636.66 INV=631.68 (12" RCP NE) INV=633.48 (12" RCP NW)	25	EX STM C.B. RIM=636.66 INV=633.66 (12" RCP SE)
26	EX STORM M.H. RIM=637.06 INV=631.61 (12" DIP NW) INV=628.31 (12" RCP SW) INV=627.06 (27" RCP SSE) INV=628.86 (12" RCP SE)	27	EX STORM M.H. RIM=637.35 INV=627.35 (27" RCP NW) INV=627.28 (27" RCP SE)
28	EX STM C.B. (BEEHIVE COVER) FLOW LINE=637.36 INV=633.86 (10" DIP (N)NE) INV=632.86 (10" DIP (S)NE) (NO OTHER PIPES VISIBLE-LONG BARREL, HARD TO SEE)		

WATERMAIN STRUCTURES

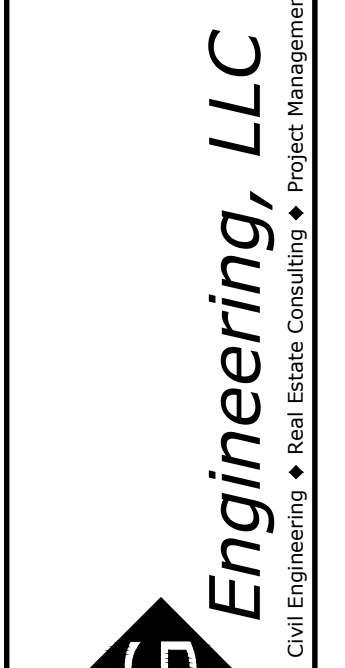
6	EX VALVE VAULT RIM=638.02 UNABLE TO OPEN	7	EX VALVE VAULT RIM=637.24 TOP OF 8" PIPE=630.39 FULL OF WATER
8	EX VALVE VAULT RIM=637.11 TOP OF 8" PIPE=629.91		

- 2 SANITARY STRUCTURE NUMBER
- 11 STORM STRUCTURE NUMBER
- 5 WATERMAIN STRUCTURE NUMBER

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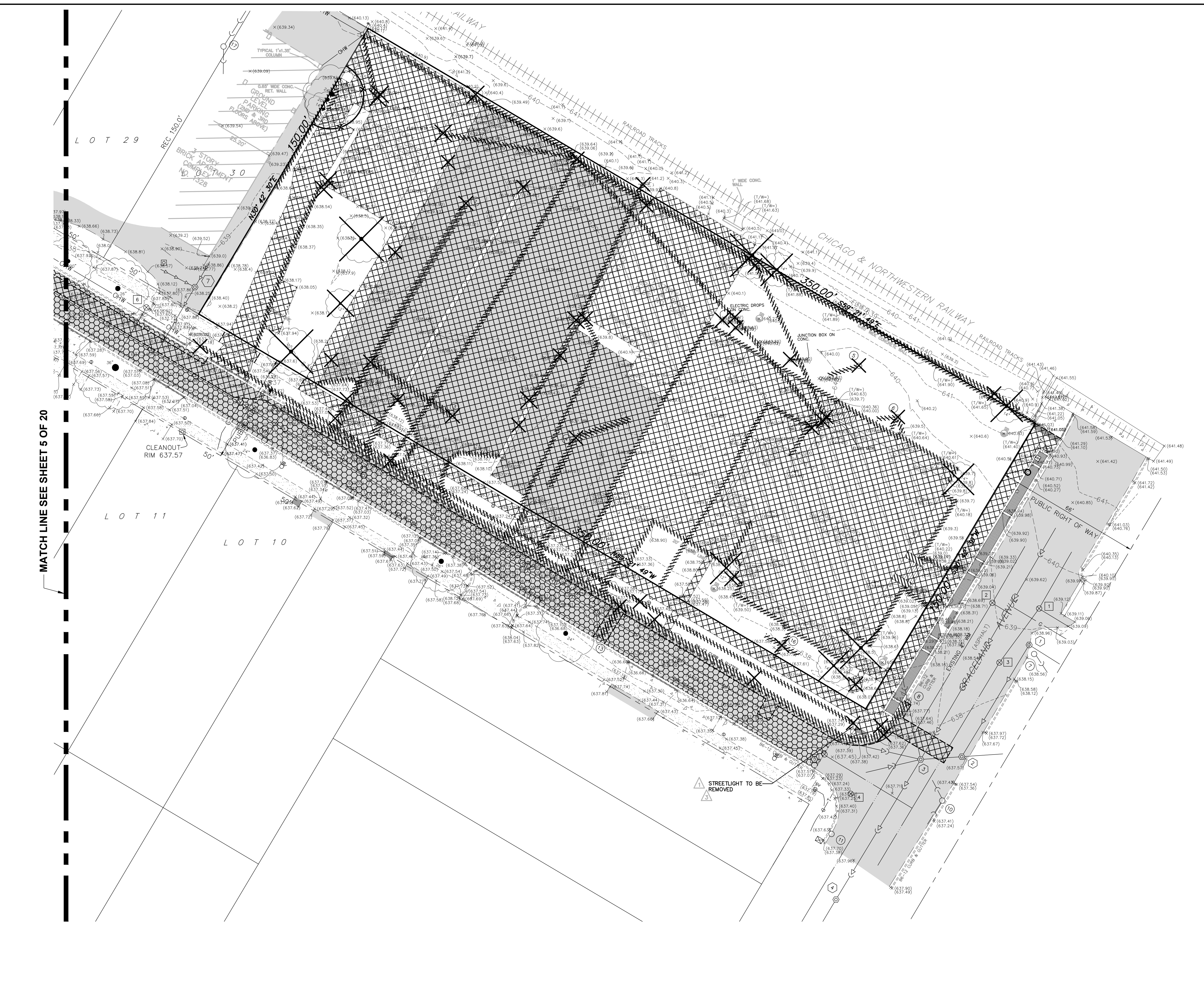
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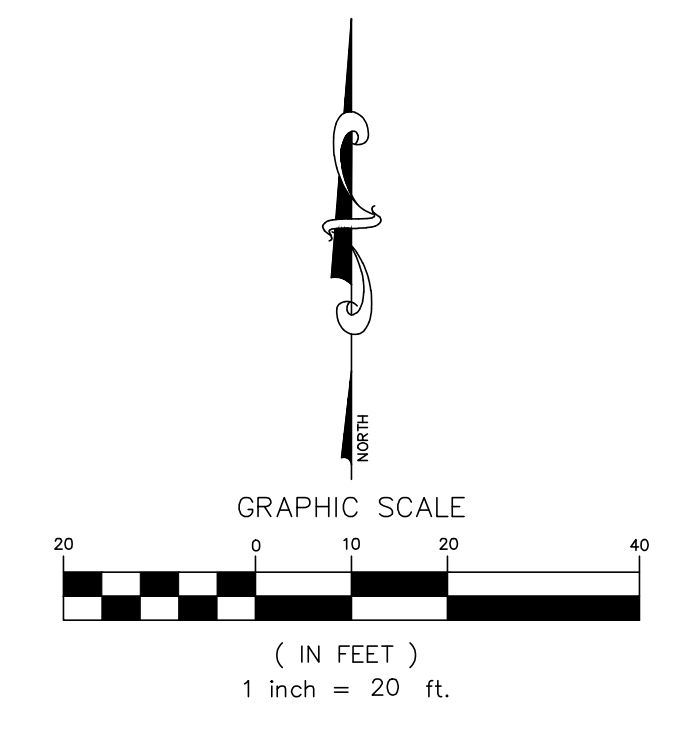


PROJECT NO. 63912021
DATE 12/09/22
SCALE 1"=20'
PROJ. MGR. MBM
PROJ. ASSOC. MKR
DRAWN BY TLM

SHEET
3 OF 20



MATCH LINE SEE SHEET 5 OF 20



DEMOLITION LEGEND

	REMOVE EXISTING PAVEMENT/SIDEWALK/STRUCTURE/C&G (INCL SAWCUT)
	MILL AND RESURFACE
	TREE/BUSH/STRUCTURE REMOVAL
	TREE PROTECTION FENCE
	REMOVE EXISTING UTILITY LINE
	REMOVE EXISTING CURB AND GUTTER

- DEMOLITION NOTES:**
- EROSION CONTROL INSTALLATION SHALL BE DONE PRIOR TO COMMENCEMENT OF ANY DEMOLITION ACTIVITY.
 - EXISTING ELECTRICAL AND PHONE CABLES MAY BE LOCATED WITHIN THE PROPOSED IMPROVEMENT AREA. APPROXIMATE KNOWN LOCATIONS ARE SHOWN HEREON. THE CONTRACTOR SHALL ARRANGE FOR PRECISE LOCATION OF EXISTING CABLE SERVICES AND EXERCISE EXTREME CARE WHEN WORKING AROUND THE SAME.
 - ALL STRUCTURAL PAVEMENT MATERIALS (ASPHALT, CONCRETE SIDEWALK, CURB/GUTTER) THAT CANNOT BE CRUSHED TO AN APPROVED IDOT SPECIFICATION FOR USE AS STRUCTURAL FILL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN OFFSITE LOCATION. RE-USE OF MILLED ASPHALT AND PROPERLY CRUSHED CONCRETE AS STRUCTURAL FILL IS ACCEPTABLE AND ENCOURAGED.
 - THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO EXISTING AMENITIES SCHEDULED TO REMAIN. PROPER SAWCUTTING SHALL BE ACCOMPLISHED AT ALL POINTS OF CONNECTION OR INTERFACE BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
 - CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL UNDERGROUND UTILITIES (EVEN IF NOT SHOWN ON THESE PLANS) LOCATED PRIOR TO DEMOLITION WORK. SANITARY SERVICE, WATERMAIN SERVICE, GAS, ELECTRIC, ETC SHALL BE CUT-OFF. CONTRACTOR TO COORDINATE WITH RESPECTIVE MUNICIPAL AGENCY TO ARRANGE FOR DISCONNECT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES, STREET LIGHTS, SIGNS, ETC. THAT ARE NOT INTENDED TO BE PERMANENTLY REMOVED.
 - CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT, ALL UTILITY COMPANIES, AND THE FIRE DEPARTMENT PRIOR TO START UP.
 - ONSITE DISTURBED AREAS TO REMAIN AS GREENSPACE SHALL BE RESTORED WITH MINIMUM 4" TOPSOIL AND SEED, OR RESTORED IN ACCORDANCE WITH THE LANDSCAPE PLAN (SEE BY OTHERS).
 - DISTURBED AREAS OF PUBLIC PARKWAYS SHALL BE RESTORED WITH MINIMUM 4" TOPSOIL AND SEED.
 - ALL EXISTING DRIVEWAY APRONS SHALL BE SAWCUT ALONG WITH REMOVAL OF ANY EXISTING DEPRESSED CURB AND GUTTER, AND NEW BARRIER CURB AND GUTTER (SIZED TO MEET EXISTING ADJACENT CONDITIONS) SHALL BE INSTALLED AND DOWELED INTO THE EXISTING ADJOINING CURB AND GUTTER.
 - UTILITY LINES SCHEDULED FOR REMOVAL SHALL BE PROPERLY DISCONNECTED FROM FACILITIES THAT ARE TO REMAIN, SECURELY PLUGGED AT ALL CONNECTION POINTS, AND EITHER REMOVED OR FILLED WITH FLOWABLE FILL (LEAN CONCRETE MIXTURE) AND ABANDONED IN PLACE (REMOVE IF LOCATED UNDER NEW BUILDING PAD AREAS). IN THE CASE OF STRUCTURE ABANDONMENT, CASTINGS AND TOP SLABS AND CONE SECTIONS SHALL BE REMOVED PRIOR TO FILLING THE STRUCTURE (UNLESS THE STRUCTURE IS EASIER TO COMPLETELY REMOVE).
 - ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
 - ALL EXISTING STORM SEWER ONSITE TO BE REMOVED, AND STUBBED AND PLUGGED AT PROPERTY LINE.
 - IF CITY OLD STREETSCAPE BRICKS ARE DISTURBED, THEY SHALL BE RE-USED OR SAVED AND GIVEN BACK TO THE CITY.

**ABBREVIATIONS LEGEND
(IN ADDITION TO TITLE SHEET LEGEND)**

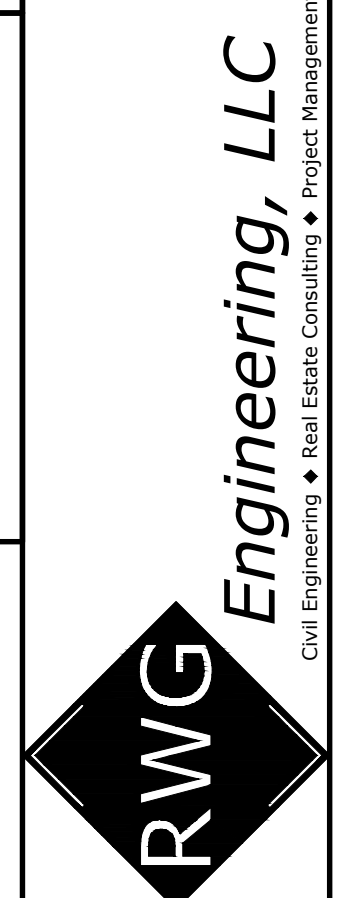
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EC	=	EDGE OF CONCRETE
RW	=	RETAINING WALL
ROW	=	RIGHT OF WAY
BC/BC	=	BACK OF CURB TO BACK OF CURB
SW	=	SIDEWALK
R	=	RADIUS
(TYP)	=	TYPICAL

REVISIONS

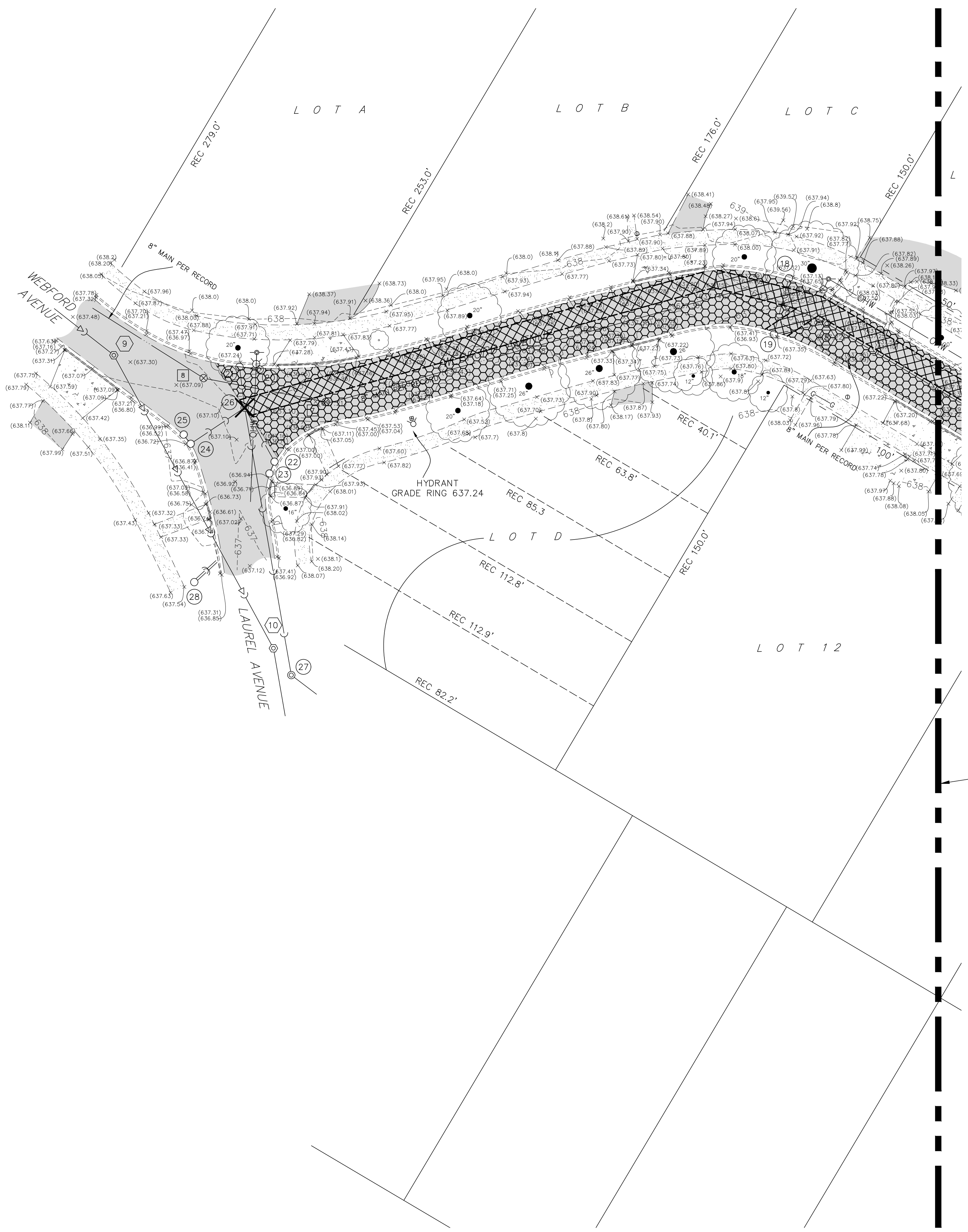
DATE	CITY REVIEW #1 & ARCHITECT REVISIONS	TLM
01/17/23		
02/17/23	ARCHITECT REVISIONS	TLM
02/27/23	PER CITY REVIEW	TLM

622 GRACELAND AVE. APARTMENTS
 DESPLAINES, ILLINOIS
 DEMOLITION PLAN - EAST

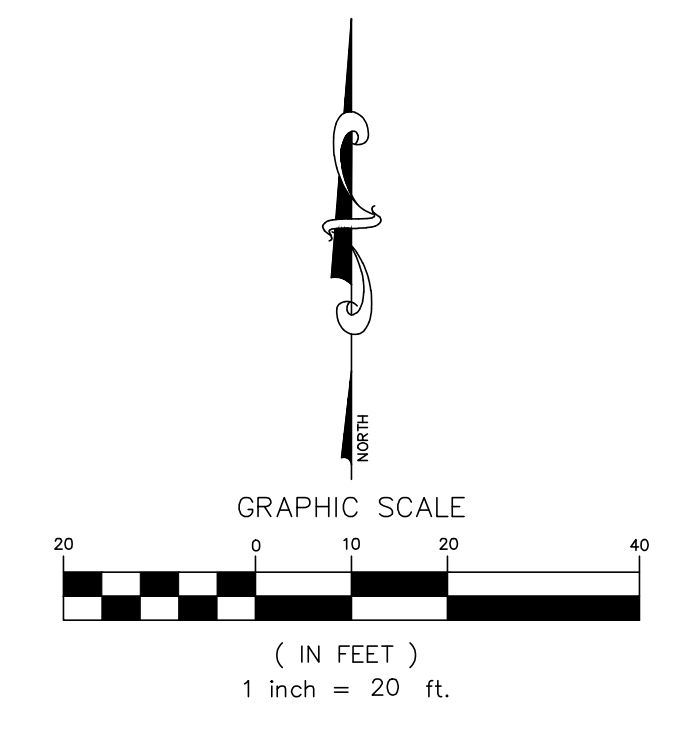
975 E. 22nd St., Suite 400
 Wheaton, IL 60189
 630.480.7889
 www.rwg-engineering.com



PROJECT NO. 63912021
 DATE 12/09/22
 SCALE 1"=20'
 PROJ. MGR. MRM
 PROJ. ASSOC. MKR
 DRAWN BY TLM



MATCH LINE SEE SHEET 4 OF 20



DEMOLITION LEGEND

	REMOVE EXISTING PAVEMENT/SIDEWALK/STRUCTURE/C&G (INCL SAWCUT)
	MILL AND RESURFACE
	TREE/BUSH/STRUCTURE REMOVAL
	TREE PROTECTION FENCE
	REMOVE EXISTING UTILITY LINE
	REMOVE EXISTING CURB AND GUTTER

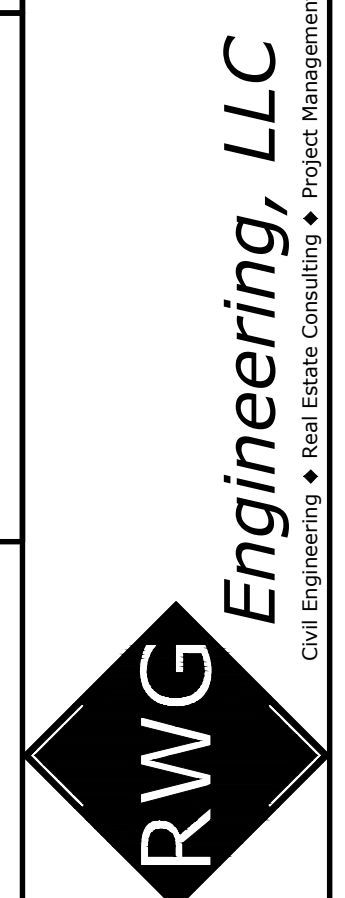
- DEMOLITION NOTES:**
- EROSION CONTROL INSTALLATION SHALL BE DONE PRIOR TO COMMENCEMENT OF ANY DEMOLITION ACTIVITY.
 - EXISTING ELECTRICAL AND PHONE CABLES MAY BE LOCATED WITHIN THE PROPOSED IMPROVEMENT AREA. APPROXIMATE KNOWN LOCATIONS ARE SHOWN HEREON. THE CONTRACTOR SHALL ARRANGE FOR PRECISE LOCATION OF EXISTING CABLE SERVICES AND EXERCISE EXTREME CARE WHEN WORKING AROUND THE SAME.
 - ALL STRUCTURAL PAVEMENT MATERIALS (ASPHALT, CONCRETE SIDEWALK, CURB/GUTTER) THAT CANNOT BE CRUSHED TO AN APPROVED IDOT SPECIFICATION FOR USE AS STRUCTURAL FILL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN OFFSITE LOCATION. RE-USE OF MILLED ASPHALT AND PROPERLY CRUSHED CONCRETE AS STRUCTURAL FILL IS ACCEPTABLE AND ENCOURAGED.
 - THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO EXISTING AMENITIES SCHEDULED TO REMAIN. PROPER SAWCUTTING SHALL BE ACCOMPLISHED AT ALL POINTS OF CONNECTION OR INTERFACE BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
 - CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL UNDERGROUND UTILITIES (EVEN IF NOT SHOWN ON THESE PLANS) LOCATED PRIOR TO DEMOLITION WORK. SANITARY SERVICE, WATERMAIN SERVICE, GAS, ELECTRIC, ETC SHALL BE CUT-OFF. CONTRACTOR TO COORDINATE WITH RESPECTIVE MUNICIPAL AGENCY TO ARRANGE FOR DISCONNECT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES, STREET LIGHTS, SIGNS, ETC. THAT ARE NOT INTENDED TO BE PERMANENTLY REMOVED.
 - CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT, ALL UTILITY COMPANIES, AND THE FIRE DEPARTMENT PRIOR TO START UP.
 - ONSITE DISTURBED AREAS TO REMAIN AS GREENSPACE SHALL BE RESTORED WITH MINIMUM 4" TOPSOIL AND SEED, OR RESTORED IN ACCORDANCE WITH THE LANDSCAPE PLAN (SEE BY OTHERS).
 - DISTURBED AREAS OF PUBLIC PARKWAYS SHALL BE RESTORED WITH MINIMUM 4" TOPSOIL AND SEED.
 - ALL EXISTING DRIVEWAY APRONS SHALL BE SAWCUT ALONG WITH REMOVAL OF ANY EXISTING DEPRESSED CURB AND GUTTER, AND NEW BARRIER CURB AND GUTTER (SIZED TO MEET EXISTING ADJACENT CONDITIONS) SHALL BE INSTALLED AND DOWELED INTO THE EXISTING ADJOINING CURB AND GUTTER.
 - UTILITY LINES SCHEDULED FOR REMOVAL SHALL BE PROPERLY DISCONNECTED FROM FACILITIES THAT ARE TO REMAIN, SECURELY PLUGGED AT ALL CONNECTION POINTS, AND EITHER REMOVED OR FILLED WITH FLOWABLE FILL (LEAN CONCRETE MIXTURE) AND ABANDONED IN PLACE (REMOVE IF LOCATED UNDER NEW BUILDING PAD AREAS). IN THE CASE OF STRUCTURE ABANDONMENT, CASTINGS AND TOP SLABS AND CONE SECTIONS SHALL BE REMOVED PRIOR TO FILLING THE STRUCTURE (UNLESS THE STRUCTURE IS EASIER TO COMPLETELY REMOVE).
 - ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
 - ALL EXISTING STORM SEWER ONSITE TO BE REMOVED, AND STUBBED AND PLUGGED AT PROPERTY LINE.
 - IF CITY OLD STREETSCAPE BRICKS ARE DISTURBED, THEY SHALL BE RE-USED OR SAVED AND GIVEN BACK TO THE CITY.

ABBREVIATIONS LEGEND (IN ADDITION TO TITLE SHEET LEGEND)

EX	=	EXISTING
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**622 GRACELAND AVE. APARTMENTS
DESPLAINES, ILLINOIS
DEMOLITION PLAN - EAST**

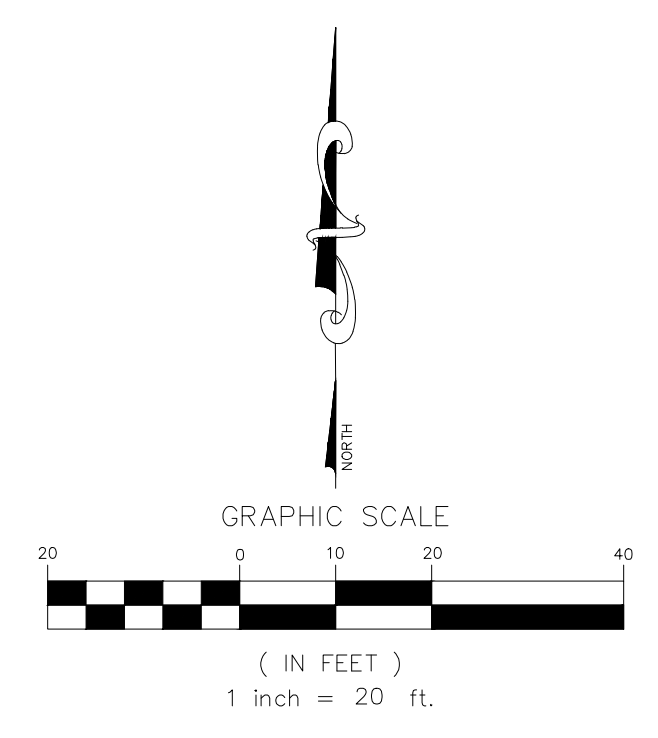
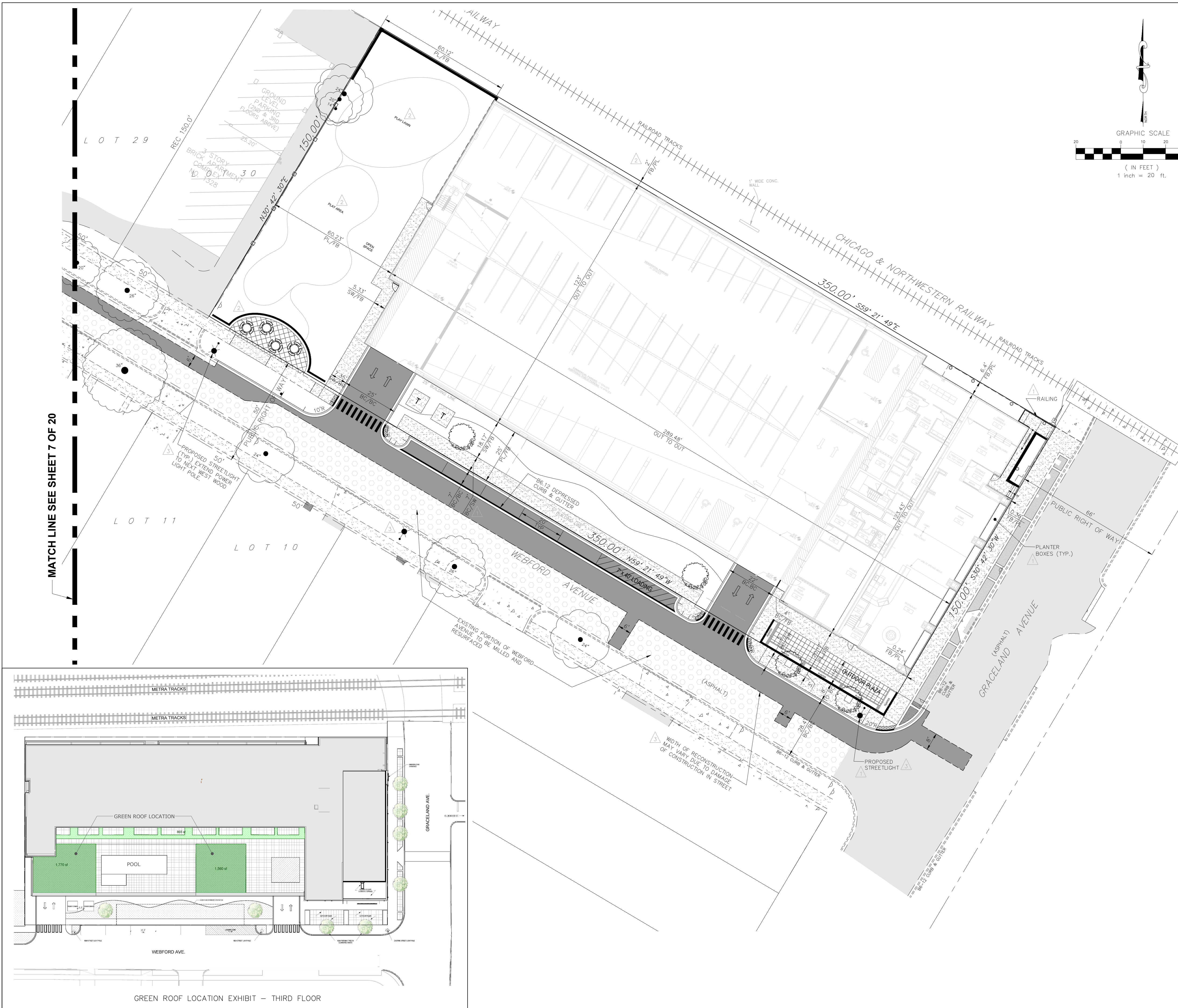
975 E. 22nd St., Suite 400
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PROJECT NO. 63912021
DATE 12/09/22
SCALE 1"=20'
PROJ. MGR. MRM
PROJ. ASSOC. MKR
DRAWN BY TLM

SHEET
5 OF 20

DATE	REVISIONS	DRAWN BY
01/17/23	CITY REVIEW #1 & ARCHITECT REVISIONS	TLM
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- SITE GEOMETRIC AND PAVING NOTES:**
- SIDEWALK RAMP WITH DETECTABLE WARNINGS AND DEPRESSED CURBS SHALL BE INSTALLED AT ALL SIDEWALK CROSSINGS. SEE CONSTRUCTION STANDARDS FOR SPECIFIC DETAILS.
 - UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE BACK OF CURB, FACE OF BUILDING, OR PROPERTY LINES.
 - UNLESS OTHERWISE NOTED, ALL CURB AND GUTTER SHALL BE B6.12 CONCRETE CURB AND GUTTER. (SEE CONSTRUCTION STANDARDS FOR SPECIFIC DETAILS.)
 - UNLESS OTHERWISE NOTED, ALL CURB RADI ARE 4' TO BACK OF CURB.
 - ALL BOUNDARY AND LOT DIMENSIONS ARE SHOWN PER THE SUBDIVISION (OR SITE) PLAT PREPARED BY GENTILE AND ASSOCIATES, INC. AND DATED SEPTEMBER 19, 2022.
 - BUILDING DIMENSIONS HAVE BEEN INDICATED HEREON BASED UPON ARCHITECTURAL INFORMATION CURRENT AS OF THE BASE DATE OF THIS PLAN PREPARATION. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND ADVISE THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 - IMPROVEMENTS ADJACENT TO BUILDINGS, IF SHOWN (SUCH AS TRUCK DOCKS, RETAINING WALLS, SIDEWALKS, CURBING, FENCING, CANOPIES, RAMPS, HANDICAP ACCESS, PLANTERS, DUMPSTERS, TRANSFORMERS, BOLLARDS, ETC) HAVE BEEN SHOWN FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS, SPECIFICATIONS AND DETAILS.
 - THE LOCATION OF PRIVATE SIDEWALKS SHALL BE COORDINATED WITH PROPOSED DOORWAYS. CONTRACTOR TO VERIFY ACTUAL DOORWAY LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTING SIDEWALKS.
 - ALL STRUCTURAL AND ARCHITECTURAL DESIGN DATA FOR THE MASONRY WALLED TRASH ENCLOSURES ARE THE RESPONSIBILITY OF THE PROJECT ARCHITECT. REFER TO THE ARCHITECTURAL PLANS FOR ALL DETAILS PERTAINING TO SAME.
 - UPON COMPLETION OF PAVING OPERATIONS, THE CONTRACTOR SHALL INSTALL THE PAVEMENT MARKINGS AND STRIPES AND ALL DIRECTIONAL SIGNAGE, ETC AS SHOWN HEREON. PARKING STALL (EXCEPT FOR HC) MARKING COLOR IS WHITE. ALL ON-SITE PAVEMENT MARKINGS AND STRIPES SHALL BE PAINTED WITH DOT SPECIFICATION PAVEMENT PAINT. PARKING STALL STRIPES SHALL BE 4" WIDE. HANDICAP STALLS SHALL BE PAINTED YELLOW AND SIGNED PER FEDERAL, STATE AND LOCAL REQUIREMENTS.
 - PRIOR TO OPENING TO THE PUBLIC, ALL TRAFFIC CONTROL SIGNAGE SHALL BE INSTALLED AS INDICATED, SIGNS SHALL BE INSTALL WITH 3" SQUARE ALUMINUM POSTS WITH A BAKED ON ENAMEL FINISH, SET 1' INTO CONCRETE PIER AND SHALL INCLUDE A POST CAP.
 - ALL STREETScape BRICKS THAT ARE REMOVED & NOT RE-USED, SHALL BE RETURNED TO THE CITY.
 - PEDESTRIAN WARNING DEVICES SHALL BE PLACED AT BOTH ENTRANCES TO PARKING GARAGE.

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01/17/23	CITY REVIEW #1 & ARCHITECT REVISIONS	TLM
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SITE DATA:

TOTAL SITE SIZE	= 52,500 S.F. (1.205 AC)
EXISTING SITE CONDITIONS:	
EXISTING BUILDING/PAVT/SW	= 39,641 S.F.
EXISTING GREENSPACE	= 12,859 S.F.
EXISTING CONDITION IMPERVIOUS AREA	= 39,641 S.F.
PROPOSED SITE CONDITIONS:	
PROPOSED BUILDING/PAVT/SW	= 36,591 S.F.
PROPOSED GREENSPACE	= 12,579 S.F.
PROPOSED GREEN ROOF	= 3,330 S.F.
PROPOSED CONDITION IMPERVIOUS AREA	= 36,591 S.F.

VOLUME CONTROL STORAGE SUMMARY

VOLUME CONTROL STORAGE REQUIRED=	0.0700 AC-FT
VOLUME CONTROL STORAGE PROVIDED=	0.0783 AC-FT
STORM TECH SYSTEM=	2922.0 CF
VV Total STORM TECH=	0.0671 AC-FT
GREEN ROOF 7" DEPTH: 0.25 VOID POROSITY	
GREEN ROOF =	3,330 SF = 485.6 CF (0.0112 AC-FT)
TOTAL VOLUME=	0.0783 AC-FT
SEASONAL HIGH GROUND WATER LEVEL=	(±) 10' DEEP ON TSC SOIL BORINGS DATED DECEMBER 2021.

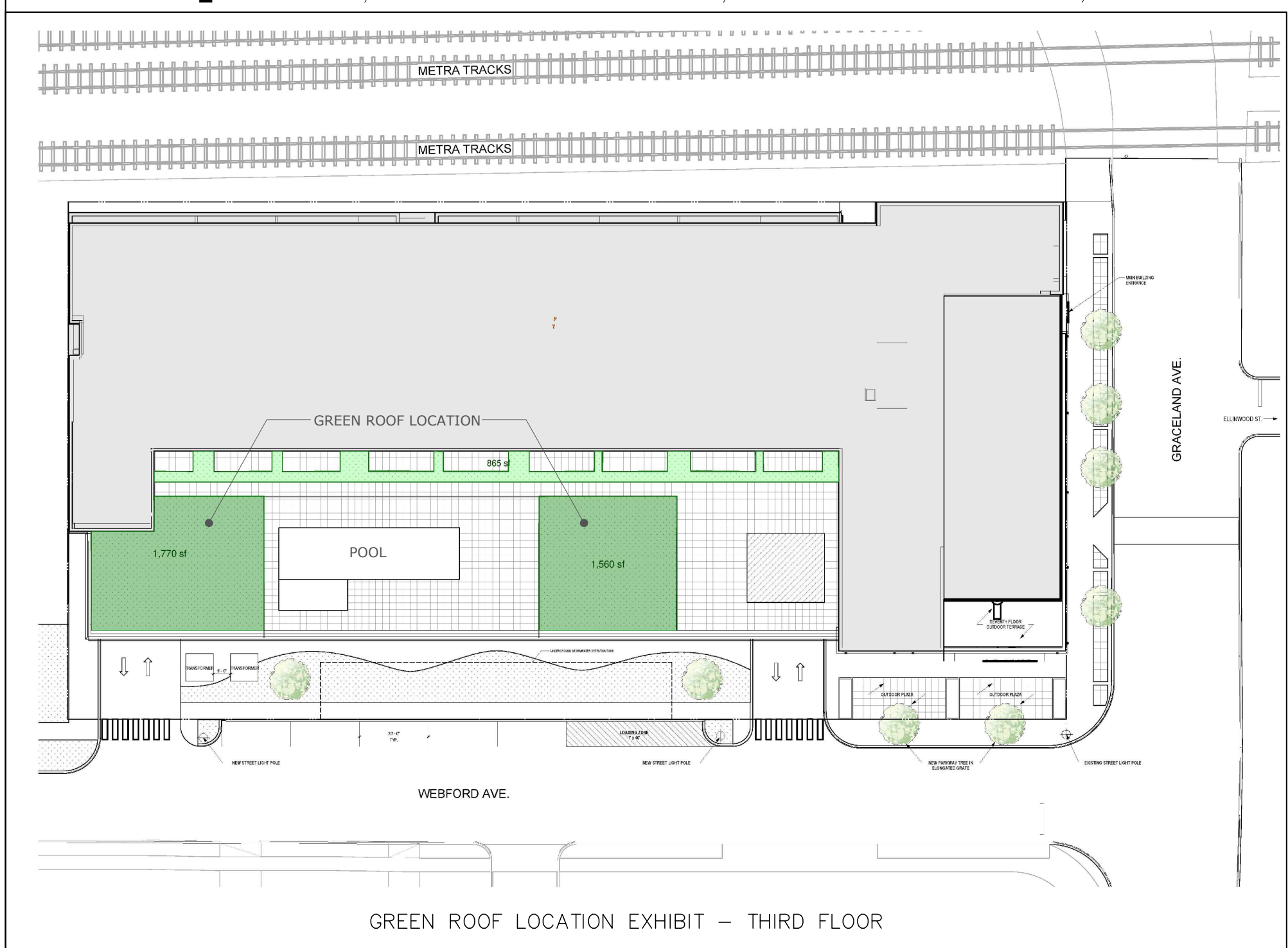
SURFACE IMPROVEMENT LEGEND:

	EXISTING SIDEWALK
	EXISTING ASPHALT PAVEMENT
	EXISTING CONCRETE
	NEW ASPHALT PAVEMENT *
	1.5" - HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 BITUMINOUS TACK COAT (0.05 GAL/SY)
	3.5" - HOT-MIX ASPHALT BINDER COURSE, IL-19, N50 BITUMINOUS PRIME COAT MC-30 (0.30 GAL/SY)
	10" - AGGREGATE BASE COURSE CA-6, TYPE B
	* FOR PAVEMENT PATCHING CROSS SECTION, SEE CITY DETAILS
	ASPHALT MILLING & RESURFACING
	1.5" - SURFACE COURSE MILL AND RESURFACE WITH HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
	CONCRETE SIDEWALKS
	4" - PCC SIDEWALK (4,000 PSI)
	4" - AGGREGATE BASE COURSE TYPE B, CA-6
	PROPOSED B6.12 CONCRETE CURB AND GUTTER
	PROPOSED REVERSE PITCH B6.12 CURB AND GUTTER
	PROPOSED DEPRESSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING DEPRESSED CURB AND GUTTER

ABBREVIATIONS LEGEND (IN ADDITION TO TITLE SHEET LEGEND)

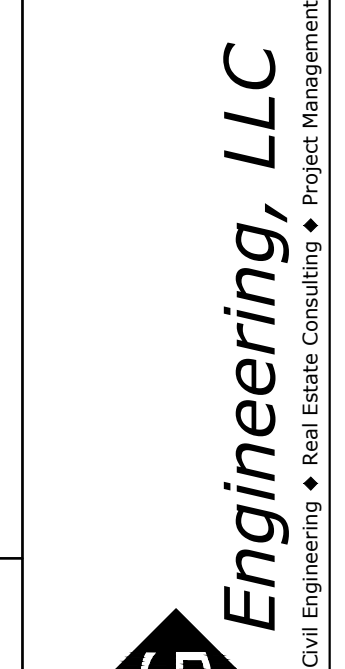
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MATCH LINE SEE SHEET 7 OF 20

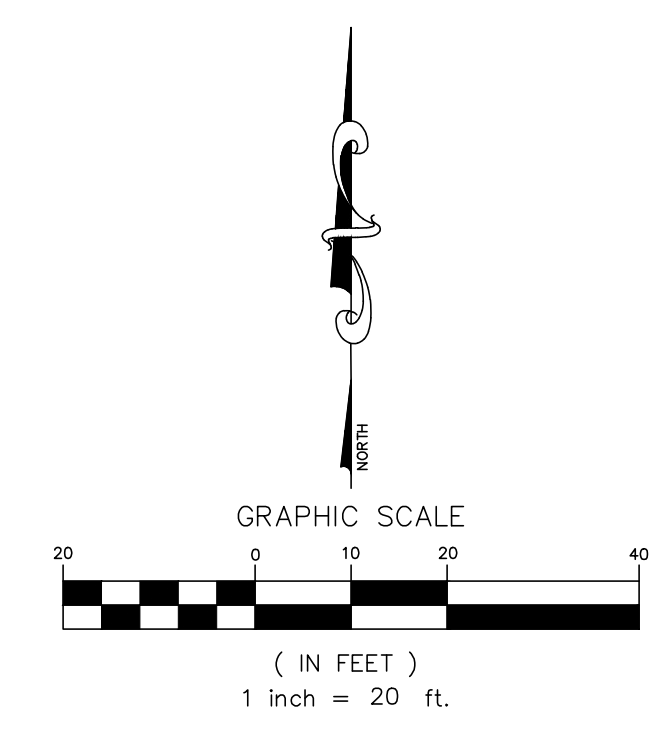
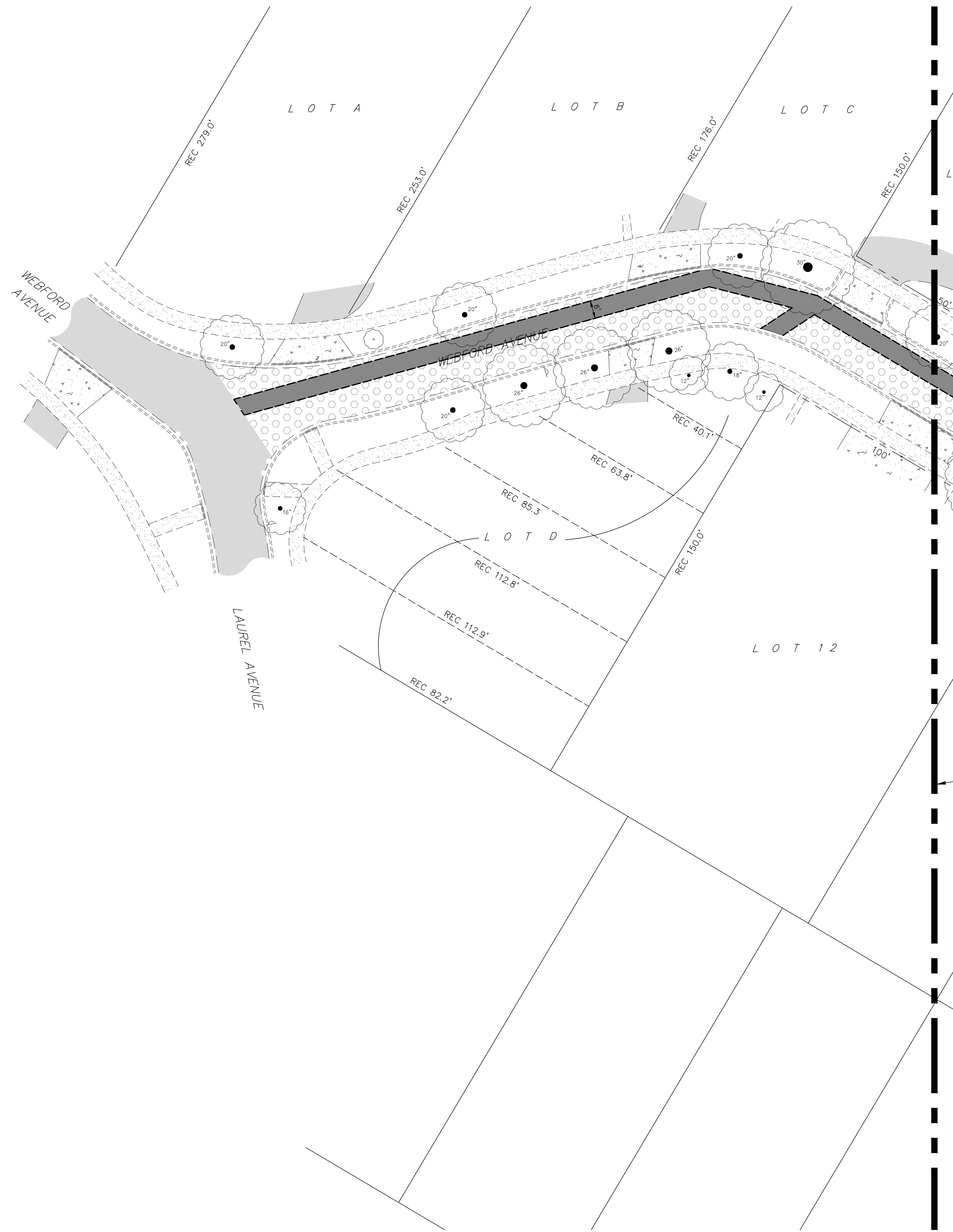


**622 GRACELAND AVE. APARTMENTS
DESPLAINES, ILLINOIS
SITE GEOMETRIC AND PAVING PLAN - EAST**

975 E. 22nd St. Suite 400
Wheaton, IL 60189
630.480.7889
www.rwg-engineering.com



PROJECT NO.	63912021
DATE	12/09/22
SCALE	1" = 20'
PROJ. MGR.	MRM
PROJ. ASSOC.	MKR
DRAWN BY	TLM



- SITE GEOMETRIC AND PAVING NOTES:**
- SIDEWALK RAMPS WITH DETECTABLE WARNINGS AND DEPRESSED CURBS SHALL BE INSTALLED AT ALL SIDEWALK CROSSINGS. SEE CONSTRUCTION STANDARDS FOR SPECIFIC DETAILS.
 - UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE BACK OF CURB, FACE OF BUILDING, OR PROPERTY LINES.
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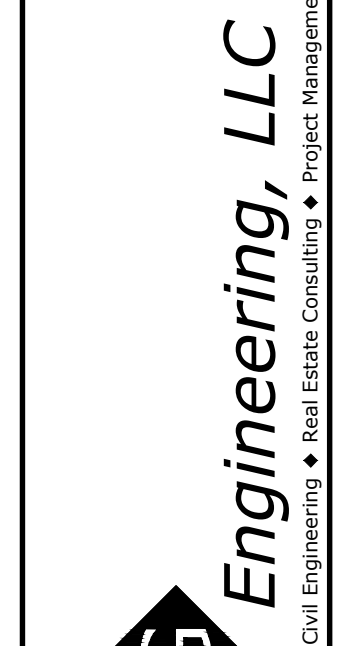
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	BITUMINOUS TACK COAT (0.05 GAL/SY)
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	* FOR PAVEMENT PATCHING CROSS SECTION, SEE CITY DETAILS
	ASPHALT MILLING & RESURFACING
	1.5" SURFACE COURSE MILL AND RESURFACE WITH HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
	CONCRETE SIDEWALKS
	4" PCC SIDEWALK (4,000 PSI)
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	PROPOSED B6.12 CONCRETE CURB AND GUTTER
	PROPOSED REVERSE PITCH B6.12 CURB AND GUTTER
	PROPOSED DEPRESSED CURB AND GUTTER
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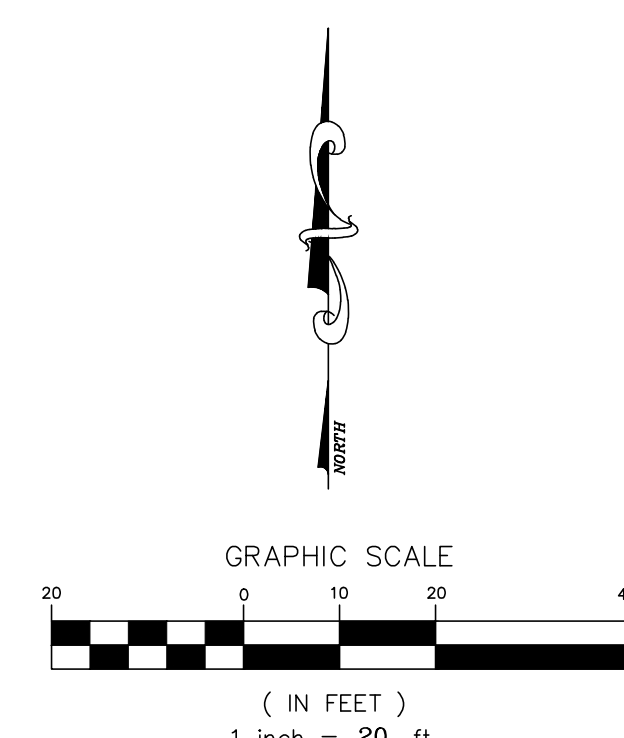
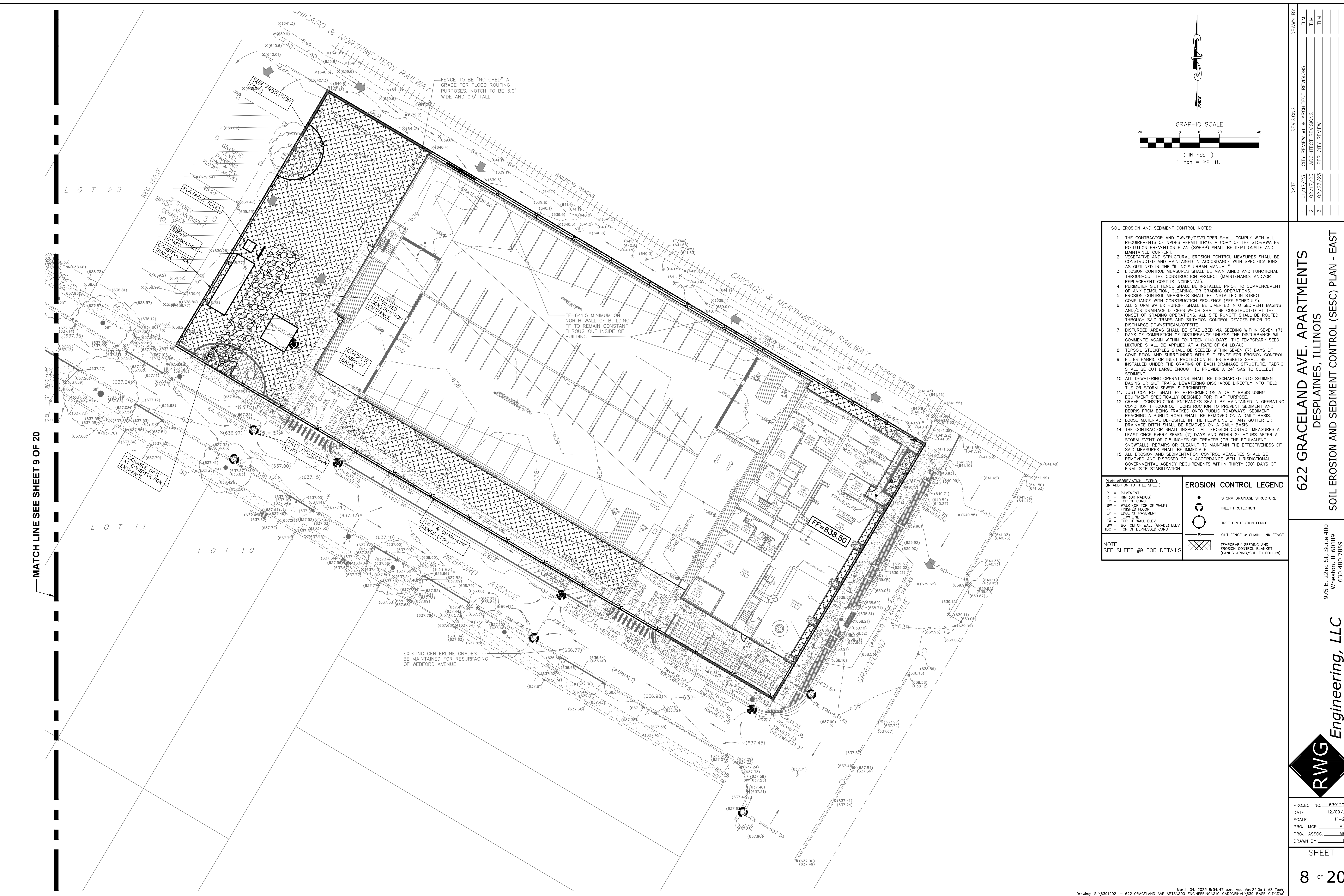
**622 GRACELAND AVE. APARTMENTS
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SITE GEOMETRIC AND PAVING PLAN - WEST**

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PROJECT NO. 63912021
DATE 12/09/22
SCALE 1"=20'
PROJ. MGR. MRM
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SHEET
7 OF 20



DATE	REVISIONS	DRAWN BY
01/17/23	CITY REVIEW #1 & ARCHITECT REVISIONS	ILM
02/17/23	ARCHITECT REVISIONS	ILM
02/27/23	PER CITY REVIEW	ILM

- SOIL EROSION AND SEDIMENT CONTROL NOTES:**
1. THE CONTRACTOR AND OWNER/DEVELOPER SHALL COMPLY WITH ALL REQUIREMENTS OF NPDES PERMIT ILR10. A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ONSITE AND MAINTAINED CURRENT.
 2. VEGETATIVE AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH SPECIFICATIONS AS OUTLINED IN THE "ILLINOIS URBAN MANUAL".
 3. EROSION CONTROL MEASURES SHALL BE MAINTAINED AND FUNCTIONAL THROUGHOUT THE CONSTRUCTION PROJECT (MAINTENANCE AND/OR REPLACEMENT COST IS INCIDENTAL).
 4. PERIMETER SILT FENCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CLEARING OR GRADING OPERATIONS.
 5. EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT COMPLIANCE WITH CONSTRUCTION SEQUENCE (SEE SCHEDULE).
 6. ALL STORM WATER RUNOFF SHALL BE DIVERTED INTO SEDIMENT BASINS AND/OR DRAINAGE DITCHES WHICH SHALL BE CONSTRUCTED AT THE ONSET OF GRADING OPERATIONS. ALL SITE RUNOFF SHALL BE ROUTED THROUGH SAID TRAPS AND SILTATION CONTROL DEVICES PRIOR TO DISCHARGE DOWNSTREAM/OFFSITE.
 7. DISTURBED AREAS SHALL BE STABILIZED VIA SEEDING WITHIN SEVEN (7) DAYS OF COMPLETION OF DISTURBANCE UNLESS THE DISTURBANCE WILL COMMENCE AGAIN WITHIN FOURTEEN (14) DAYS. THE TEMPORARY SEED MIXTURE SHALL BE APPLIED AT A RATE OF 64 LB/AC.
 8. TOPSOIL STOCKPILES SHALL BE SEEDING WITHIN SEVEN (7) DAYS OF COMPLETION AND SURROUNDED WITH SILT FENCE FOR EROSION CONTROL.
 9. FILTER FABRIC OR INLET PROTECTION FILTER BASKETS SHALL BE INSTALLED UNDER THE GRATING OF EACH DRAINAGE STRUCTURE. FABRIC SHALL BE CUT LARGE ENOUGH TO PROVIDE A 2" SAG TO COLLECT SEDIMENT.
 10. ALL DEWATERING OPERATIONS SHALL BE DISCHARGED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DISCHARGE DIRECTLY INTO FIELD TILE OR STORM SEWER IS PROHIBITED.
 11. DUST CONTROL SHALL BE PERFORMED ON A DAILY BASIS USING EQUIPMENT SPECIFICALLY DESIGNED FOR THAT PURPOSE.
 12. GRAVEL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN OPERATING CONDITION THROUGHOUT CONSTRUCTION TO PREVENT SEDIMENT AND DEBRIS FROM BEING TRACKED ONTO PUBLIC ROADWAYS. SEDIMENT REACHING A PUBLIC ROAD SHALL BE REMOVED ON A DAILY BASIS.
 13. LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE DITCH SHALL BE REMOVED ON A DAILY BASIS.
 14. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 0.5 INCHES OR GREATER (OR THE EQUIVALENT SNOWFALL). REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE IMMEDIATE.
 15. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION.

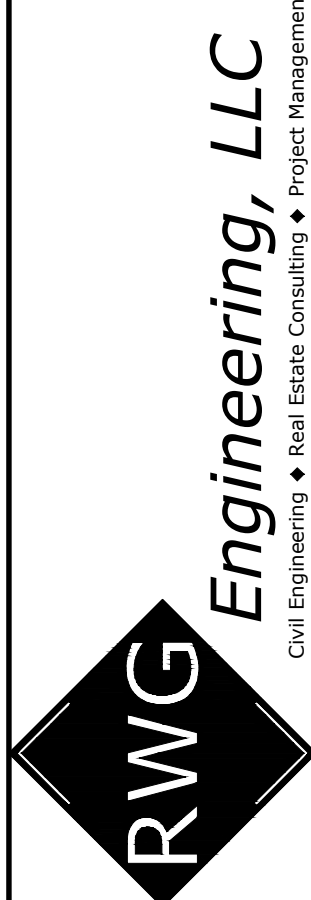
PLAN ABBREVIATION LEGEND	EROSION CONTROL LEGEND
P = PAVEMENT	Storm Drainage Structure
R = RIM (OR RADIUS)	Inlet Protection
TC = TOP OF CURB	Tree Protection Fence
SW = WALK (OR TOP OF WALK)	Silt Fence & Chain-Link Fence
FF = FINISHED FLOOR	Temporary Seeding and Erosion Control Blanket (Landscaping/Seed to Follow)
EP = EDGE OF PAVEMENT	
TL = FLOW LINE	
TW = TOP OF WALL ELEV	
BW = BOTTOM OF WALL (GRADE) ELEV	
TC = TOP OF DEPRESSED CURB	

NOTE: SEE SHEET #9 FOR DETAILS

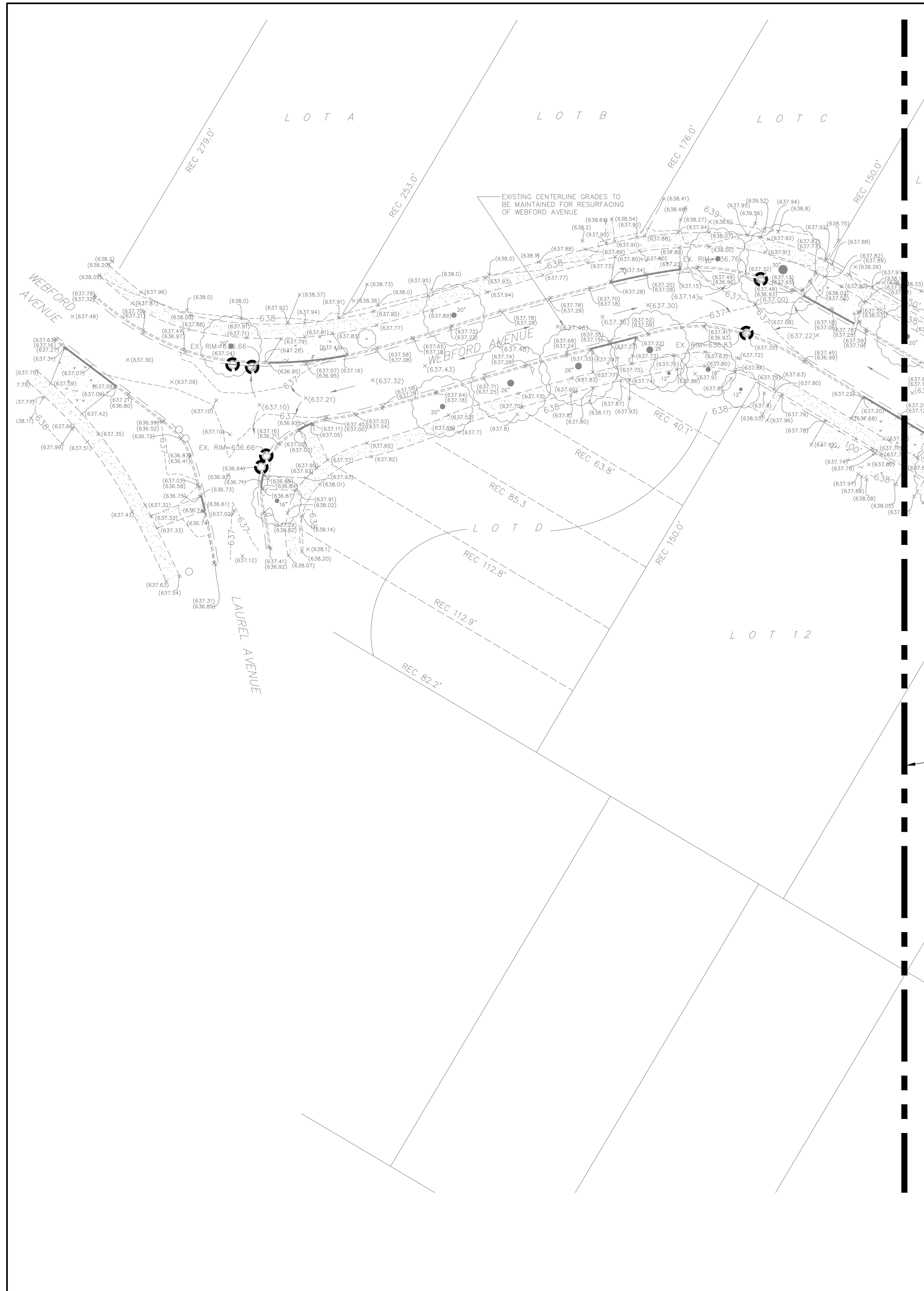
MATCH LINE SEE SHEET 9 OF 20

**622 GRACELAND AVE. APARTMENTS
DESPLAINES, ILLINOIS
SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN - EAST**

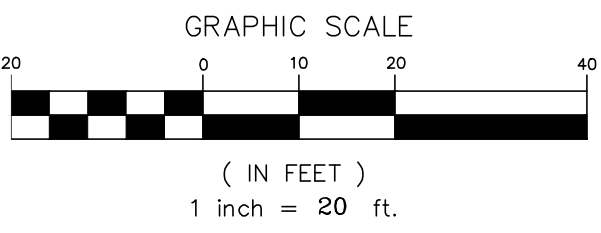
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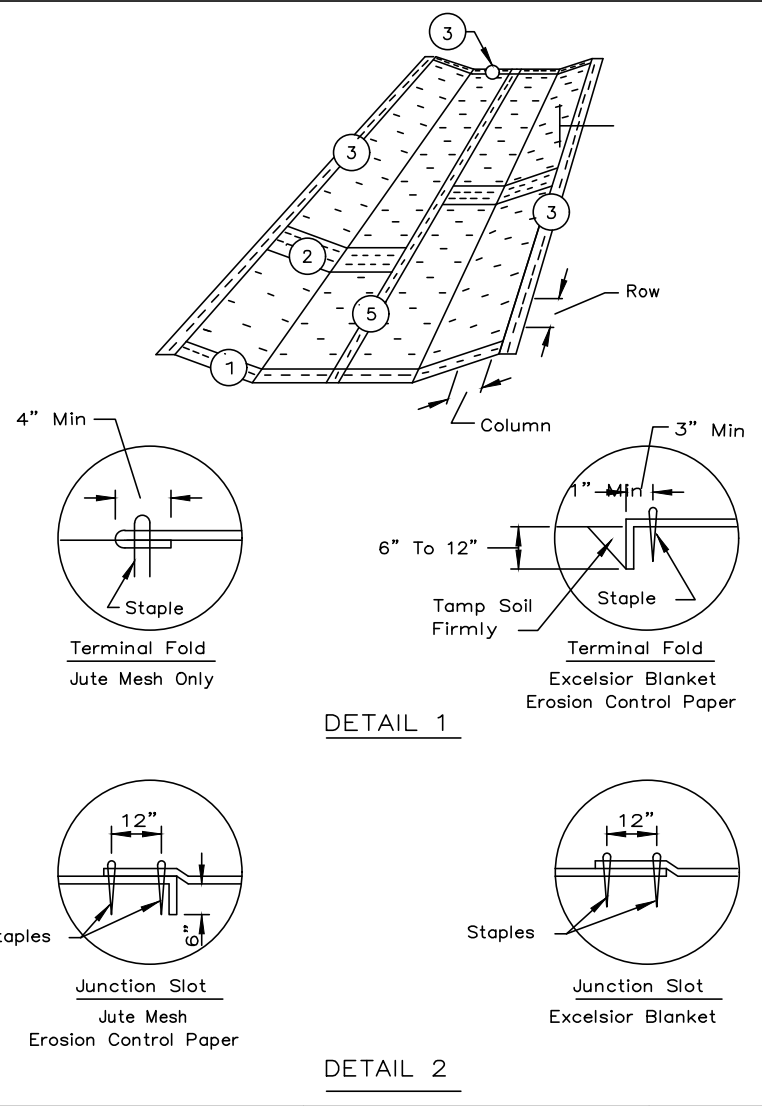
PROJECT NO. 63912021
DATE 12/09/22
SCALE 1"=20'
PROJ. MGR. MKR
PROJ. ASSOC. MKR
DRAWN BY ILM



MATCH LINE SEE SHEET 8 OF 20

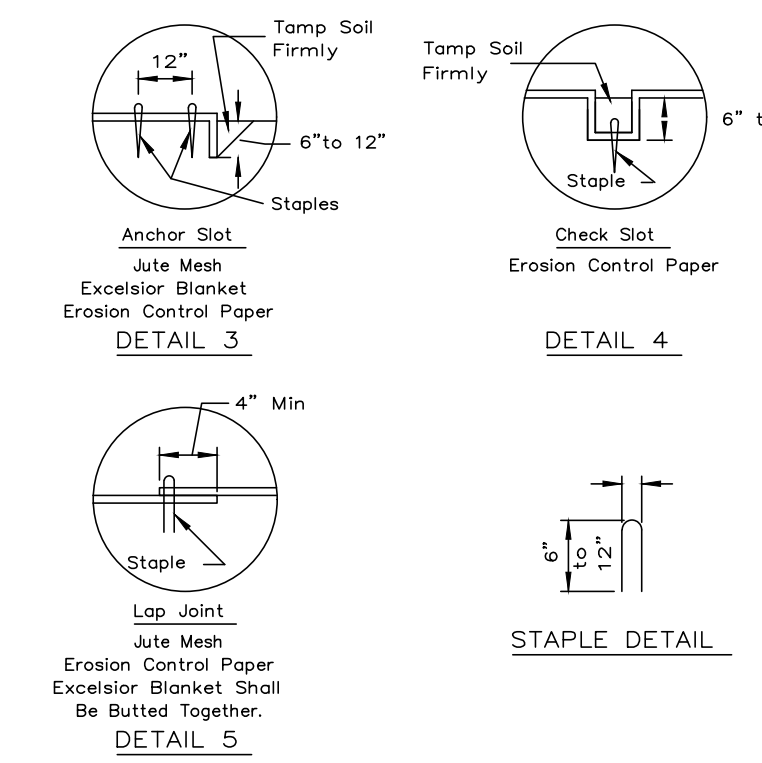


EROSION BLANKET PLAN



REFERENCE Project	Date	STANDARD DWG. NO.
Designed	Date	IL-530
Checked	Date	SHEET 1 OF 2
Approved	Date	DATE 2-24-24

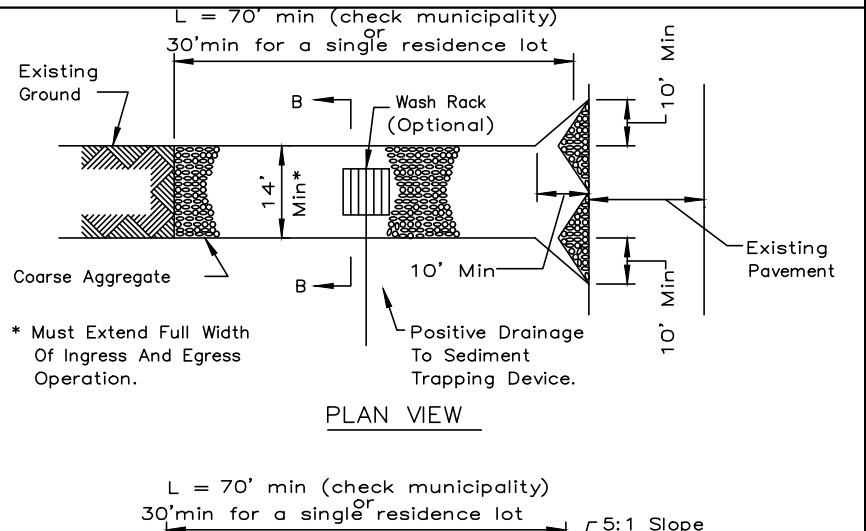
EROSION BLANKET PLAN



NOTES:
 1. On erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4% and less than 6%. On slopes of 6% or more, they shall be spaced so that one occurs within each 25'.
 2. Staples are to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 staples are required per 4' x 225' roll of material and 125 staples are required per 4' x 150' roll of material.
 3. Erosion control material shall be placed loosely over ground surface. Do not stretch.
 4. All terminal ends and transverse laps shall be stapled at approximately 12" intervals.

REFERENCE Project	Date	STANDARD DWG. NO.
Designed	Date	IL-530
Checked	Date	SHEET 2 OF 2
Approved	Date	DATE 3-1-25

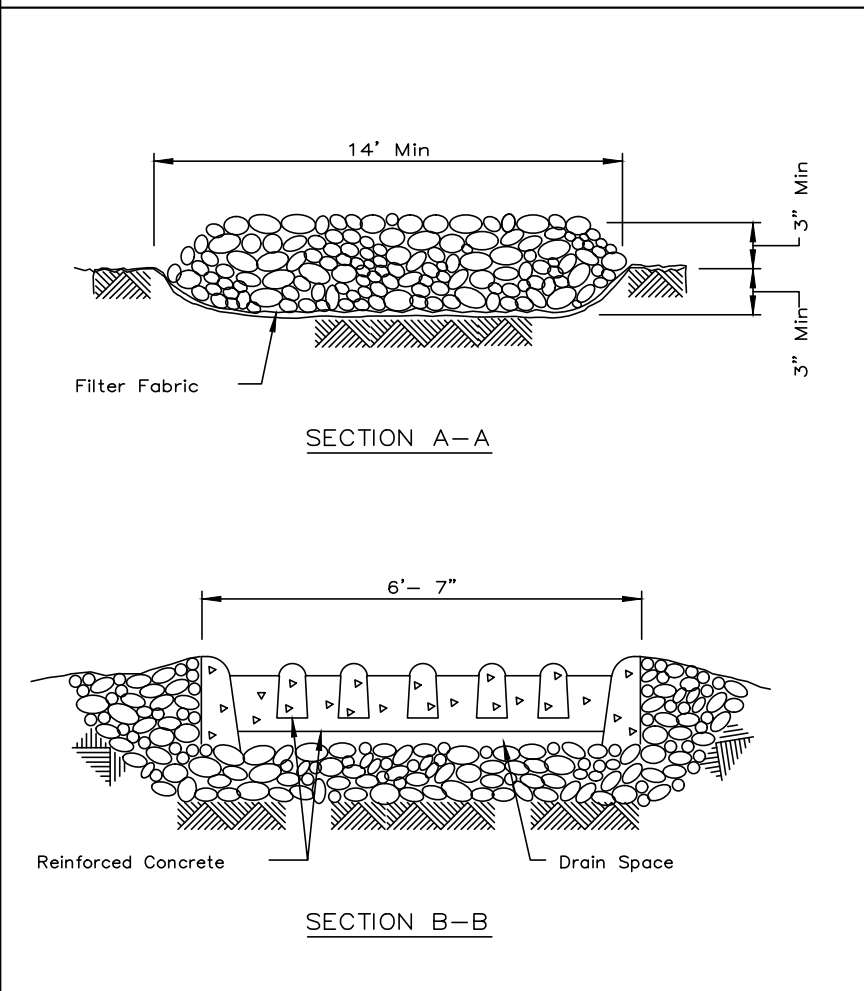
STABILIZED CONSTRUCTION ENTRANCE PLAN



NOTES:
 1. Filter fabric shall meet the requirements of material specification 692 GEOTEXTILE, Table 1 or 2. Class 1 and 2 shall be placed over the cleared area prior to the placing of rock.
 2. Rock or reclaimed concrete shall meet one of the following DOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
 3. Any drainage facilities required because of washing shall be constructed according to manufacturer specifications.
 4. If wash racks are used they shall be installed according to the manufacturer's specifications.

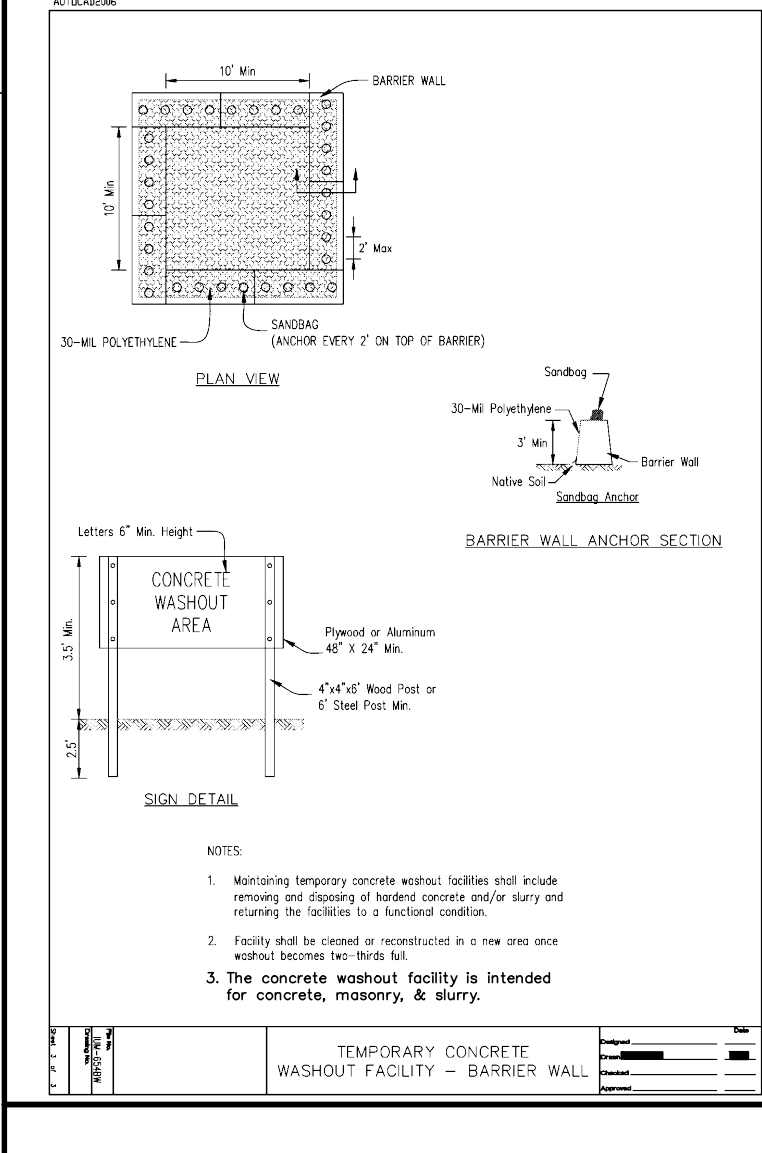
REFERENCE Project	Date	STANDARD DWG. NO.
Designed	Date	IL-630A
Checked	Date	SHEET 1 OF 2
Approved	Date	DATE 6-18-24

STABILIZED CONSTRUCTION ENTRANCE PLAN



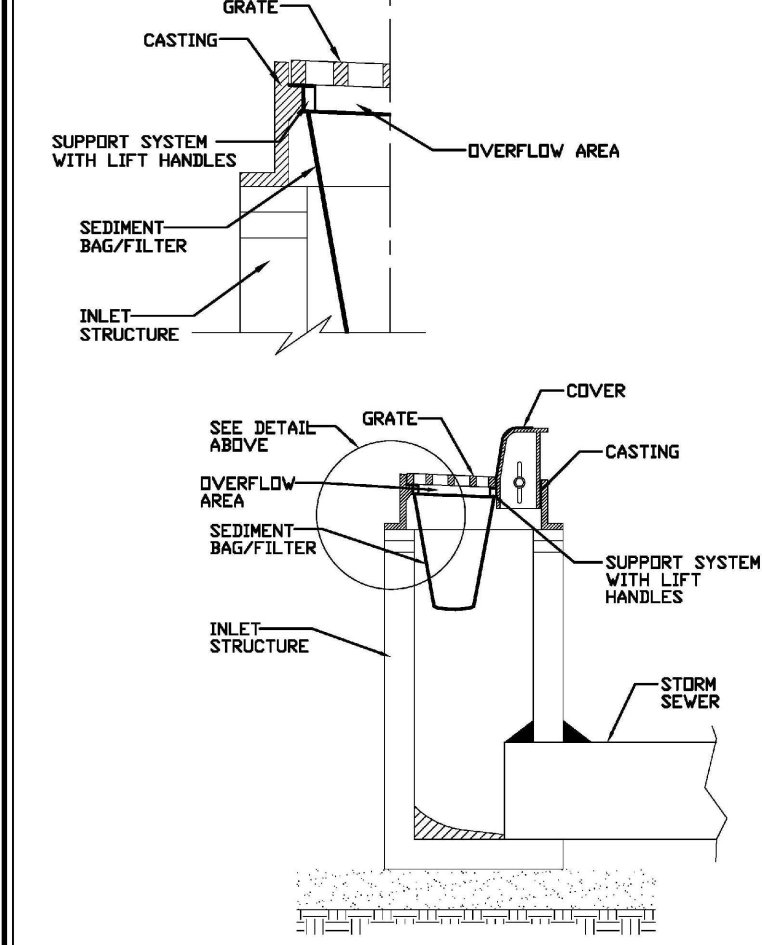
NOTES:
 1. Filter fabric shall meet the requirements of material specification 692 GEOTEXTILE, Table 1 or 2. Class 1 and 2 shall be placed over the cleared area prior to the placing of rock.
 2. Rock or reclaimed concrete shall meet one of the following DOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
 3. Any drainage facilities required because of washing shall be constructed according to manufacturer specifications.
 4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE Project	Date	STANDARD DWG. NO.
Designed	Date	IL-630B
Checked	Date	SHEET 2 OF 2
Approved	Date	DATE 6-18-24



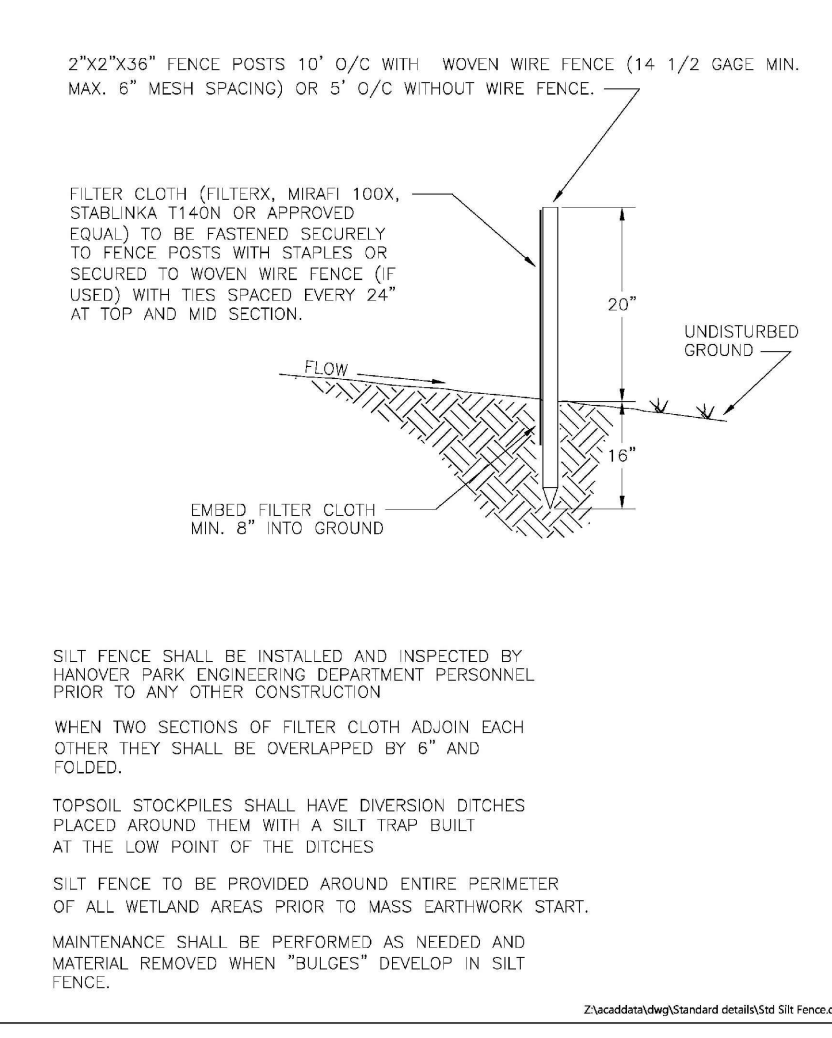
SPECIAL CONCRETE WASHOUT NOTE:
 CONCRETE WASHOUT SHALL BE CONTAINED AT ALL TIMES. WASHOUT MATERIAL SHALL NOT BE ALLOWED TO ENTER STORM SEWERS OR LEACH INTO THE SOIL UNDER ANY CIRCUMSTANCES. ALL WASTE SHALL BE DISPOSED OF PROPERLY AND THE LOCATION OF THE WASHOUT SHALL BE DESIGNATED WITH PROPER SIGNAGE (SEE PLAN).

INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



REFERENCE Project	Date	STANDARD DWG. NO.
Designed	Date	ILM-531B
Checked	Date	SHEET 1 OF 1
Approved	Date	DATE 04-05-21

SILT FENCE

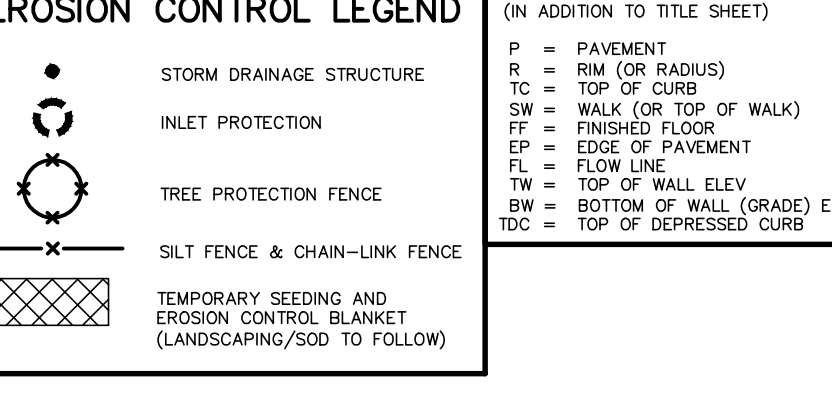


SOIL EROSION CONTROL CONSTRUCTION SCHEDULE:
 1. INSTALL SEDIMENT CONTROL MEASURES INLET BASKETS/BARRIER FILTERS
 2. SITE DEMOLITION WORK
 3. SARCUT/REMOVE PAVEMENT/SIDEWALKS/CONCRETE SLABS
 4. SITE CONSTRUCTION WORK
 5. INSTALL BUILDING EXPANSION FOUNDATION/WALLS
 6. INSTALL CURB/STORM DRAIN SYSTEMS & DITCHES
 7. PREPARE SIGNAGE FOR ROAD FLOOR SLAB & PAVT AREAS
 8. INSTALL BASE COURSE MATERIALS
 9. INSTALL NEW CURB/SIDEWALK/CONCRETE SLABS
 10. INSTALL NEW ASPHALT PAVEMENT
 11. REPAIR & SEAL CRACKS EXISTING ASPHALT PAVEMENT & RE-STRAPE
 12. PERMANENT VEGETATIVE STABILIZATION OF DISTURBED GREENSPACE
 13. SPREAD TOPSOIL IN NEW ISLAND
 14. MULCH/SEED AS SPECIFIED
 15. CLEANUP/RESTORATION
 16. REMOVE INLET BASKETS/BARRIER FILTERS

SECC INSPECTION SCHEDULE:
 1. DIVERSION AND STRUCTURAL MEASURES - WILL BE INSPECTED AT 7 DAY INTERVALS AND AFTER EVERY 1/2" RAIN.
 2. SEDIMENT BASINS AND FONDS - WILL BE CHECKED AFTER EACH MAJOR PHASE OF THE DEVELOPMENT FOR SEDIMENT ACCUMULATION TO MAINTAIN THAT FLOW.
 3. VEGETATIVE PLANTINGS - SPRING PLANTINGS WILL BE CHECKED DURING SUMMER OR EARLY FALL.
 4. REPAIRS - ANY EROSION CONTROL MEASURES, STRUCTURAL MEASURES OR OTHER RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 15 DAYS OR EARLIER IF POSSIBLE BASED ON FIELD CONDITIONS.
 5. MAINTENANCE - DRAINAGEWAYS, DITCHES AND OTHER AREAS THAT SUPPORT A DESIGNATED FLOW OF WATER WILL BE MAINTAINED REGULARLY TO MAINTAIN THAT FLOW.
 6. FERTILIZATION - SEEDING AREAS WHERE THE SEED HAS NOT PRODUCED A GOOD COVER WILL BE INSPECTED AND FERTILIZED IF NECESSARY.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR AND OWNER/DEVELOPER SHALL COMPLY WITH ALL REQUIREMENTS OF NPDES PERMIT ILR10. A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ONSITE AND MAINTAINED CURRENT.
- VEGETATIVE AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH SPECIFICATIONS AS OUTLINED IN THE "ILLINOIS URBAN MANUAL".
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AND FUNCTIONAL THROUGHOUT THE CONSTRUCTION PROJECT (MAINTENANCE AND/OR REPLACEMENT COST IS INCIDENTAL).
- PERIMETER SILT FENCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CLEARING, OR GRADING OPERATIONS.
- EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT COMPLIANCE WITH CONSTRUCTION SEQUENCE (SEE SCHEDULE).
- ALL STORM WATER RUNOFF SHALL BE DIVERTED INTO SEDIMENT BASINS AND/OR DRAINAGE DITCHES WHICH SHALL BE CONSTRUCTED AT THE ONSET OF GRADING OPERATIONS. ALL SITE RUNOFF SHALL BE ROUTED THROUGH SAID TRAPS AND SILTATION CONTROL DEVICES PRIOR TO DISCHARGE DOWNSTREAM/OFFSITE.
- DISTURBED AREAS SHALL BE STABILIZED WITH SEEDING WITHIN SEVEN (7) DAYS OF COMPLETION OF DISTURBANCE UNLESS THE DISTURBANCE WILL COMMENCE AGAIN WITHIN FOURTEEN (14) DAYS. THE TEMPORARY SEED MIXTURE SHALL BE APPLIED AT A RATE OF 64 LB/AC.
- TOPSOIL STOCKPILES SHALL BE SEEDING WITHIN SEVEN (7) DAYS OF COMPLETION AND SURROUNDED WITH SILT FENCE FOR EROSION CONTROL.
- FILTER FABRIC OR INLET PROTECTION FILTER BASKETS SHALL BE INSTALLED UNDER THE GRATING OF EACH DRAINAGE STRUCTURE. FABRIC SHALL BE CUT LARGE ENOUGH TO PROVIDE A 2" SAG TO COLLECT SEDIMENT.
- ALL DEWATERING OPERATIONS SHALL BE DISCHARGED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DISCHARGE DIRECTLY INTO FLOW LINE OR STORM SEWER IS PROHIBITED.
- DUST CONTROL SHALL BE PERFORMED ON A DAILY BASIS USING EQUIPMENT SPECIFICALLY DESIGNED FOR THAT PURPOSE.
- GRAVEL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN OPERATING CONDITION THROUGHOUT CONSTRUCTION TO PREVENT SEDIMENT AND DEBRIS FROM BEING TRACKED ONTO PUBLIC ROADWAYS. SEDIMENT REACHING A PUBLIC ROAD SHALL BE REMOVED ON A DAILY BASIS.
- LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE DITCH SHALL BE REMOVED ON A DAILY BASIS.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 0.5 INCHES OR GREATER (OR THE EQUIVALENT SNOWFALL). REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE IMMEDIATE.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION.

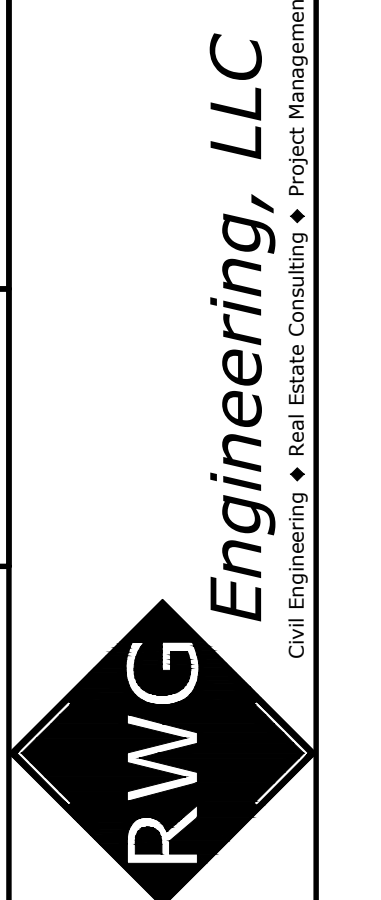


PLAN ABBREVIATION LEGEND (ON ADDITION TO TITLE SHEET)
P = PAVEMENT
R = RIM (OR RADIUS)
TC = TOP OF CURB
WC = WALK (OR TOP OF WALK)
FF = FINISHED FLOOR
EP = EDGE OF PAVEMENT
FL = FLOW LINE
TW = TOP OF WALL ELEV
BW = BOTTOM OF WALL (GRADE) ELEV
TC = TOP OF DERESSED CURB

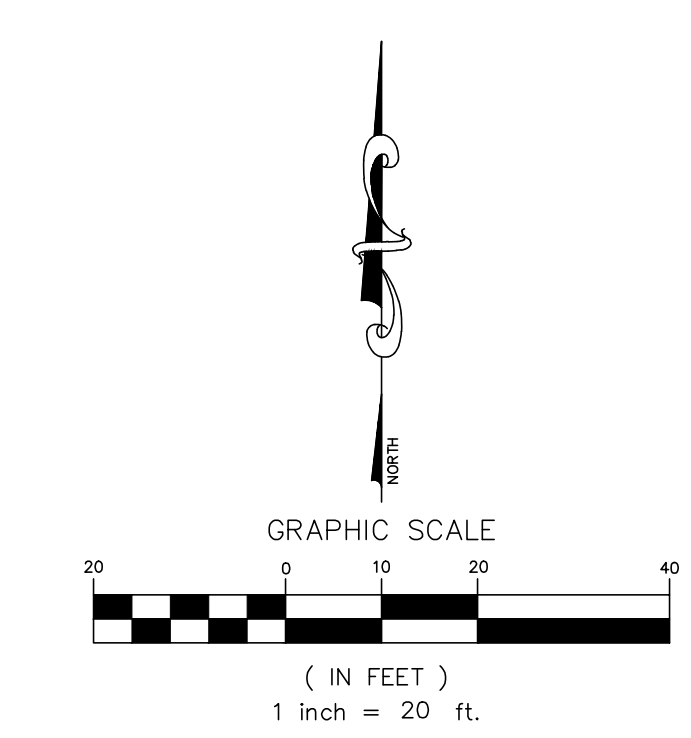
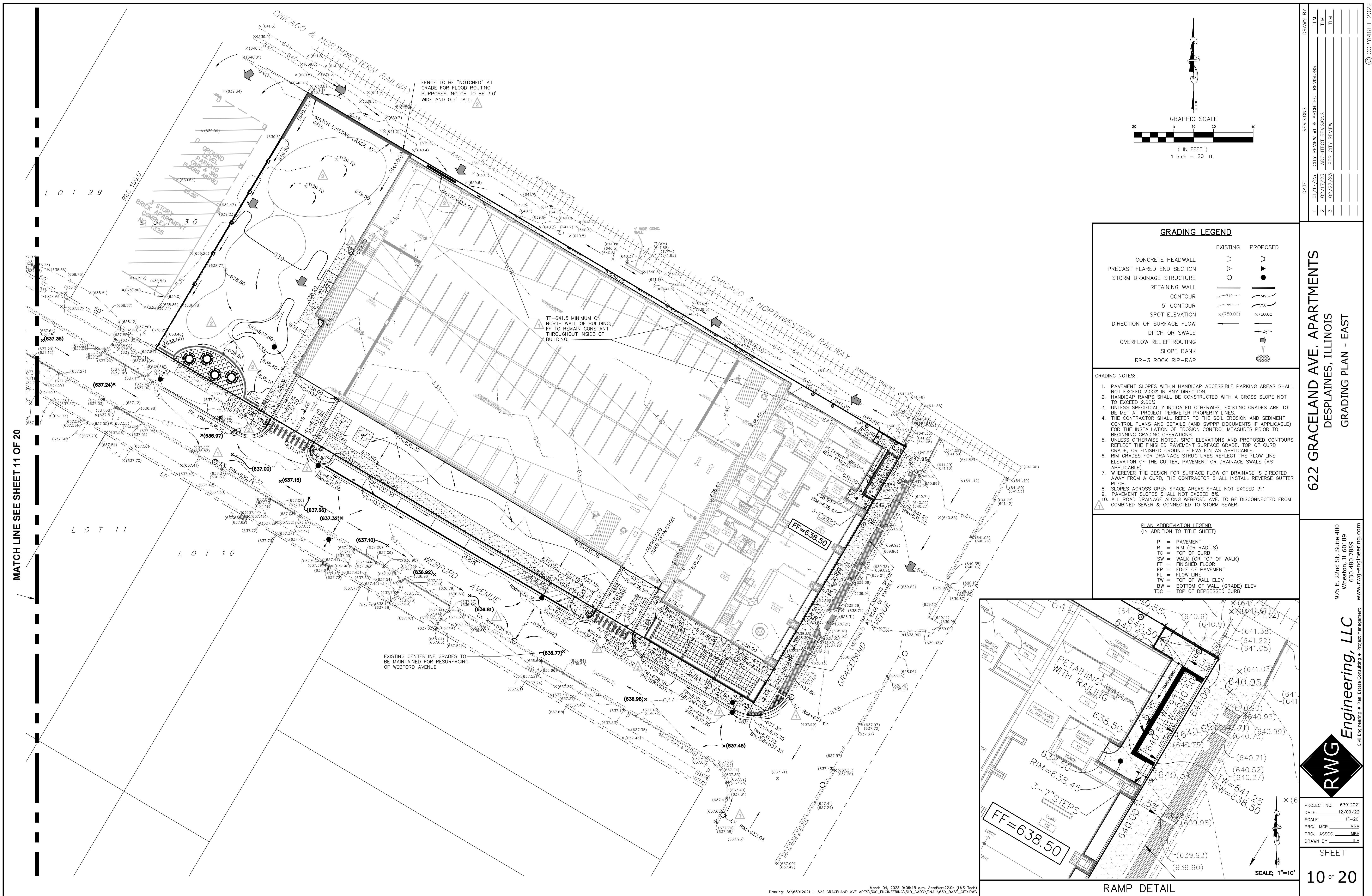
DATE	REVISIONS	DRAWN BY
01/17/23	CITY REVIEW #1 & ARCHITECT REVISIONS	ILM
02/17/23	ARCHITECT REVISIONS	ILM
02/27/23	PER CITY REVIEW	ILM

**622 GRACELAND AVE. APARTMENTS
 DESPLAINES, ILLINOIS**
SOIL EROSION AND SEDIMENT CONTROL (SECC) PLAN - WEST

975 E. 22nd St., Suite 400
 Wheaton, IL 60189
 630-480-7889
 www.rwg-engineering.com



PROJECT NO. 63912021
 DATE 12/09/22
 SCALE 1"=20'
 PROJ. MGR. MKR
 PROJ. ASSOC. MKR
 DRAWN BY ILM



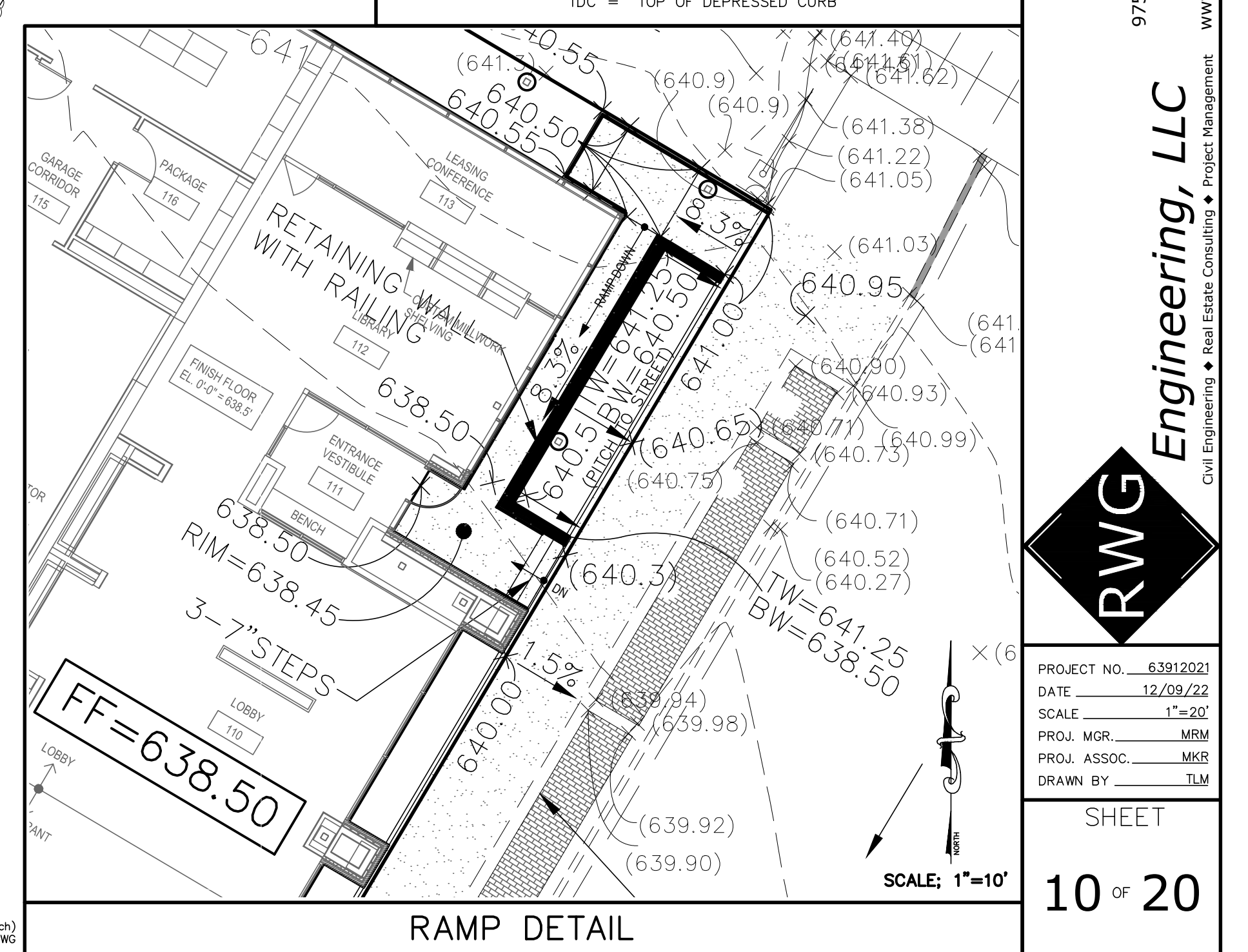
DATE	REVISIONS	DRAWN BY
01/17/23	CITY REVIEW #1 & ARCHITECT REVISIONS	TLM
02/17/23	ARCHITECT REVISIONS	TLM
02/27/23	PER CITY REVIEW	TLM

GRADING LEGEND		
	EXISTING	PROPOSED
CONCRETE HEADWALL		
PRECAST FLARED END SECTION		
STORM DRAINAGE STRUCTURE		
RETAINING WALL		
CONTOUR		
5' CONTOUR		
SPOT ELEVATION		
DIRECTION OF SURFACE FLOW		
DITCH OR SWALE		
OVERFLOW RELIEF ROUTING		
SLOPE BANK		
RR-3 ROCK RIP-RAP		

- GRADING NOTES:**
- PAVEMENT SLOPES WITHIN HANDICAP ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
 - HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A CROSS SLOPE NOT TO EXCEED 2.00%.
 - UNLESS SPECIFICALLY INDICATED OTHERWISE, EXISTING GRADES ARE TO BE MET AT PROJECT PERIMETER PROPERTY LINES.
 - THE CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLANS AND DETAILS (AND SWPPP DOCUMENTS IF APPLICABLE) FOR THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO BEGINNING GRADING OPERATIONS.
 - UNLESS OTHERWISE NOTED, SPOT ELEVATIONS AND PROPOSED CONTOURS REFLECT THE FINISHED PAVEMENT SURFACE GRADE, TOP OF CURB GRADE, OR FINISHED GROUND ELEVATION AS APPLICABLE.
 - RIM GRADES FOR DRAINAGE STRUCTURES REFLECT THE FLOW LINE ELEVATION OF THE GUTTER, PAVEMENT OR DRAINAGE SWALE (AS APPLICABLE).
 - WHEREVER THE DESIGN FOR SURFACE FLOW OF DRAINAGE IS DIRECTED AWAY FROM A CURB, THE CONTRACTOR SHALL INSTALL REVERSE GUTTER PITCH.
 - SLOPES ACROSS OPEN SPACE AREAS SHALL NOT EXCEED 3:1.
 - PAVEMENT SLOPES SHALL NOT EXCEED 8%.
 - ALL ROAD DRAINAGE ALONG WEBFORD AVE. TO BE DISCONNECTED FROM COMBINED SEWER & CONNECTED TO STORM SEWER.

PLAN ABBREVIATION LEGEND
(IN ADDITION TO TITLE SHEET)

P	=	PAVEMENT
R	=	RIM (OR RADIUS)
TC	=	TOP OF CURB
SW	=	WALK (OR TOP OF WALK)
FF	=	FINISHED FLOOR
EP	=	EDGE OF PAVEMENT
FL	=	FLOW LINE
TW	=	TOP OF WALL ELEV
BW	=	BOTTOM OF WALL (GRADE) ELEV
TDC	=	TOP OF DEPRESSED CURB



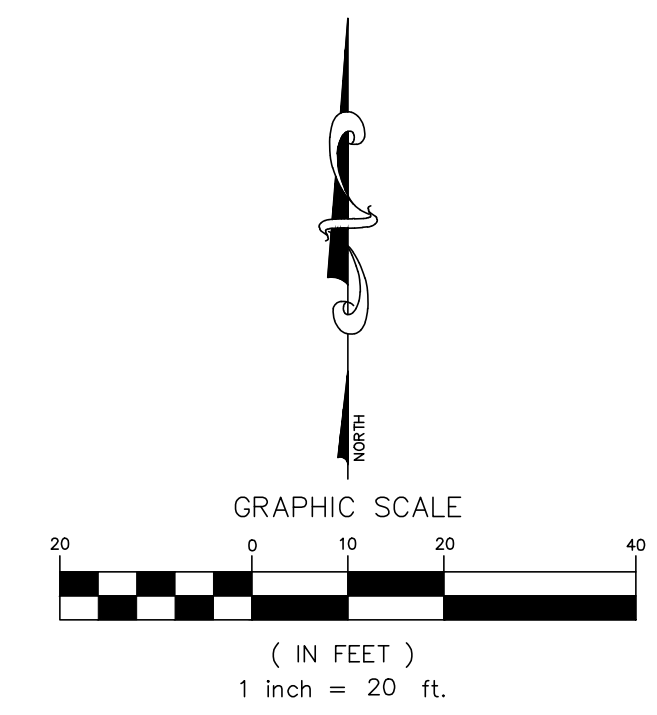
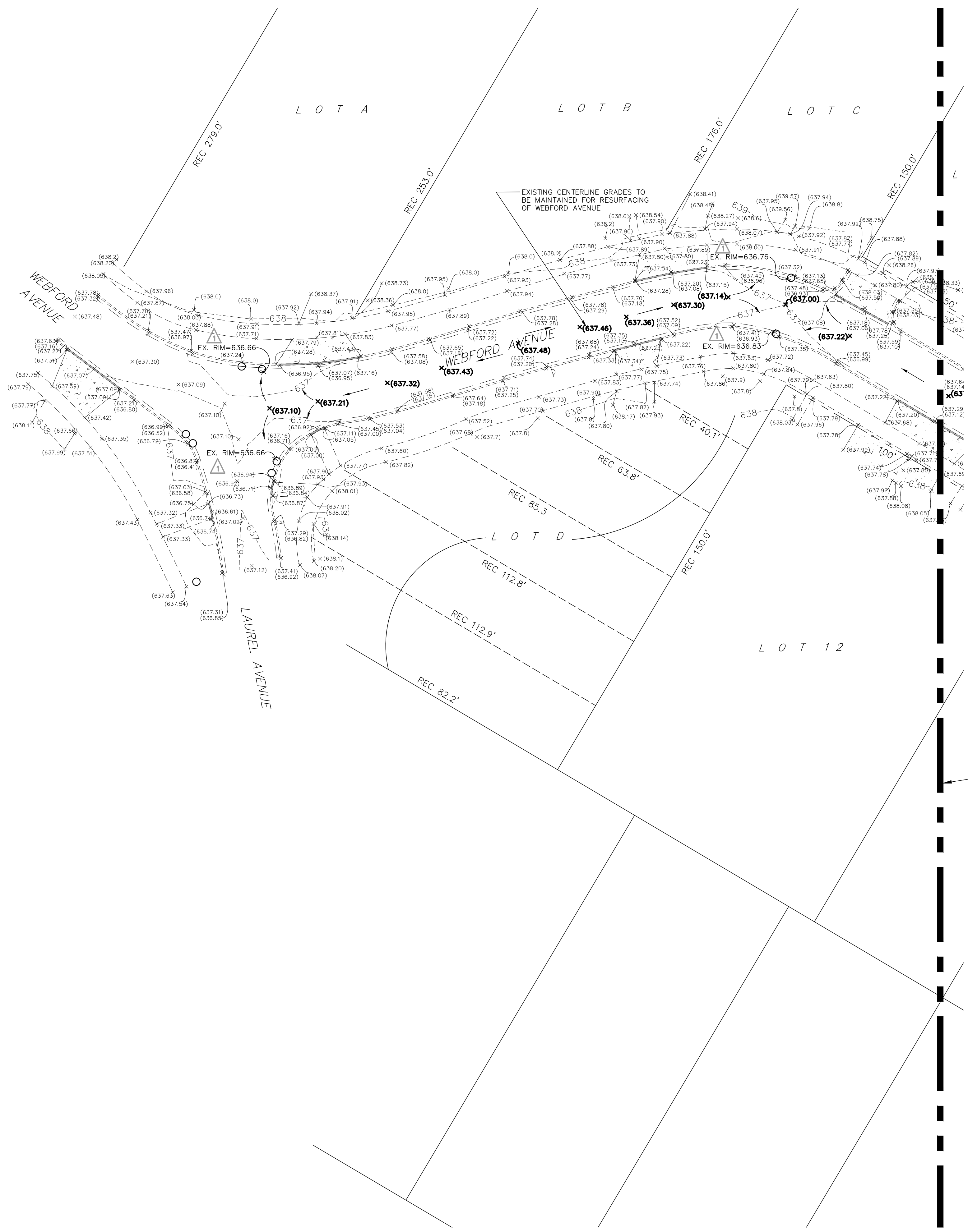
MATCH LINE SEE SHEET 11 OF 20

622 GRACELAND AVE. APARTMENTS
DESPLAINES, ILLINOIS
GRADING PLAN - EAST

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Civil Engineering & Real Estate Consulting • Project Management

PROJECT NO.	63912021
DATE	12/09/22
SCALE	1"=20'
PROJ. MGR.	MMR
PROJ. ASSOC.	MGR
DRAWN BY	TLM
SHEET	10 OF 20



GRADING LEGEND

	EXISTING	PROPOSED
CONCRETE HEADWALL		
PRECAST FLARED END SECTION		
STORM DRAINAGE STRUCTURE		
RETAINING WALL		
CONTOUR		
5' CONTOUR		
SPOT ELEVATION		
DIRECTION OF SURFACE FLOW		
DITCH OR SWALE		
OVERFLOW RELIEF ROUTING		
SLOPE BANK		
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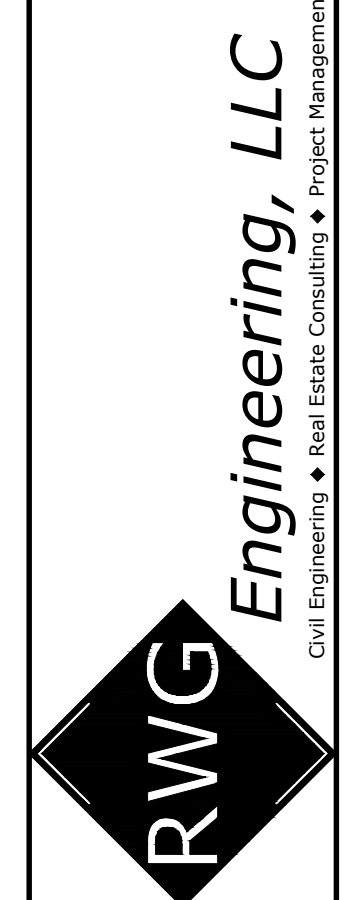
GRADING NOTES:

- PAVEMENT SLOPES WITHIN HANDICAP ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
- HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A GROSS SLOPE NOT TO EXCEED 2.00%.
- UNLESS SPECIFICALLY INDICATED OTHERWISE, EXISTING GRADES ARE TO BE MET AT PROJECT PERIMETER PROPERTY LINES.
- THE CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLANS AND DETAILS (AND SWPPP DOCUMENTS IF APPLICABLE) FOR THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO BEGINNING GRADING OPERATIONS.
- UNLESS OTHERWISE NOTED, SPOT ELEVATIONS AND PROPOSED CONTOURS REFLECT THE FINISHED PAVEMENT SURFACE GRADE, TOP OF CURB GRADE, OR FINISHED GROUND ELEVATION AS APPLICABLE.
- RIM GRADES FOR DRAINAGE STRUCTURES REFLECT THE FLOW LINE ELEVATION OF THE GUTTER, PAVEMENT OR DRAINAGE SWALE (AS APPLICABLE).
- WHEREVER THE DESIGN FOR SURFACE FLOW OF DRAINAGE IS DIRECTED AWAY FROM A CURB, THE CONTRACTOR SHALL INSTALL REVERSE GUTTER PITCH.
- SLOPES ACROSS OPEN SPACE AREAS SHALL NOT EXCEED 3:1.
- PAVEMENT SLOPES SHALL NOT EXCEED 8%.
- ALL ROAD DRAINAGE ALONG WEBFORD AVE. TO BE DISCONNECTED FROM COMBINED SEWER & CONNECTED TO STORM SEWER.

DATE	REVISIONS	DRAWN BY
01/17/23	CITY REVIEW #1 & ARCHITECT REVISIONS	TLM
02/17/23	ARCHITECT REVISIONS	TLM
02/27/23	PER CITY REVIEW	TLM

622 GRACELAND AVE. APARTMENTS
DESPAINES, ILLINOIS
GRADING PLAN - WEST

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Wheaton, IL 60189
630.480.7889
www.rwg-engineering.com



PROJECT NO. 63912021
DATE 12/09/22
SCALE 1"=20'
PROJ. MGR. MEM
PROJ. ASSOC. MKR
DRAWN BY TLM

MATCH LINE SEE SHEET 13 OF 20

- SPECIAL NOTES:**
1. FLOWABLE FILL IS REQUIRED FOR PROPOSED UTILITIES WITHIN PUBLIC FIGHT-OF-WAY.
 2. NO RESIDENT SHALL BE LEFT WITHOUT SEWER AND WATER OVERNIGHT.
 3. PEDESTRIAN WARNING DEVICES ARE BEING DISCUSSED BETWEEN STAFF AND THE ARCHITECT.
 4. ANY EXISTING COMMERCIAL WATER SERVICES THAT ARE TO BE ABANDON, MUST BE REMOVED FROM THE CITY WATERMAIN AND THE CITY MAIN PIPE SHALL BE REPLACED IN THAT SECTION OF PIPE.
 5. FOR THE FOUR EXISTING S.F. LOTS NORTH OF WEBFORD AVE. (LOT 29, LOT A, LOT B, LOT C), IF A CONFLICT EXISTS WITH AN EXISTING WATER SERVICE, IT SHALL BE REPLACED WITH A NEW COPPER SERVICE TO MEET SEPARATION REQUIREMENTS FROM THE B-BOX TO THE CITY WATERMAIN.
 6. ALL REPAIRS TO EXTEND TO B-BOX (WATER) AND PROPERTY LINE (SANITARY).

STORM SEWER DRAINAGE STRUCTURE LEGEND

EXISTING	PROPOSED	DESCRIPTION
□	■	STORM INLET - OPEN GRATE
○	●	STORM CATCH BASIN - OPEN GRATE
⊙	⊙	STORM MANHOLE - CLOSED LID
②	②	SANITARY STRUCTURE NUMBER
⑪	⑪	STORM STRUCTURE NUMBER
⑤	⑤	WATERMAIN STRUCTURE NUMBER

- UTILITY NOTES:**
1. RIM GRADES FOR DRAINAGE STRUCTURES REFLECT THE FLOW LINE ELEVATIONS OF THE GUTTER, PAVEMENT, OR DRAINAGE SWALE (AS APPLICABLE).
 2. UNLESS OTHERWISE NOTED, ALL UTILITY DIMENSIONS ARE CENTER TO CENTER OF STRUCTURES (OR TO END OF FLARED END SECTION - IE INCLUDING LENGTH OF FLARED END SECTION).
 3. THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO THE PROPOSED GRADES AS INDICATED ON THE PLANS.
 4. CONNECTIONS TO EXISTING SEWERS OR WATERMANS (OR EXISTING SERVICE STUBS) AT POINTS OTHER THAN VISIBLE STRUCTURES ARE APPROXIMATE. THE CONTRACTOR SHALL EXCAVATE AND VERIFY EXISTING SEWER OR WATERMAIN LOCATIONS, SIZES, ELEVATIONS, AND PIPE CONDITIONS AT PROPOSED CONNECTION POINTS PRIOR TO CONSTRUCTING UTILITY EXTENSIONS, AND NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICT OR DISCREPANCIES.
 5. EXISTING UNDERGROUND PIPE, CONDUIT AND/OR CABLES (LIGHTING, ELECTRIC, GAS, CABLE, ETC) ARE SHOWN FROM RECORD INFORMATION AND ARE APPROXIMATE IN NATURE. THE CONTRACTOR SHALL VERIFY EXACT LOCATION IN THE FIELD AND NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICT.
 6. SELECT GRANULAR TRENCH BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES UNDER EXISTING OR PROPOSED PAVEMENT, DRIVEWAYS, PARKING LOTS, AND SIDEWALKS, AND EXTENDED A MINIMUM OF 2' EACH SIDE OF SAME. GRANULAR TRENCH BACKFILL SHALL BE COMPACTED IN PLACE IN ACCORDANCE WITH THE SPECIFICATIONS.
 7. BUILDING DIMENSIONS AND ADJACENT UTILITY SERVICE LOCATIONS HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE TIME OF DRAWING PREPARATION. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THE CONTRACTOR SHALL REFER TO THE CURRENT ARCHITECTURAL PLANS FIRST, FOR PRECISE BUILDING DIMENSIONS AND UTILITY SERVICE CONNECTION LOCATIONS AND NOTIFY THE ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 8. ROUTING OF GAS, ELECTRIC, TELEPHONE AND OTHER CABLE SERVICES (IF SHOWN) ARE APPROXIMATE AND SUBJECT TO MODIFICATION BY THE RESPECTIVE UTILITY COMPANY AND/OR DEVELOPER. THE CONTRACTOR SHALL COORDINATE THE FINAL UTILITY SERVICE LOCATION WITH EACH UTILITY COMPANY PRIOR TO CONSTRUCTION.

UTILITY CROSSING SCHEDULE

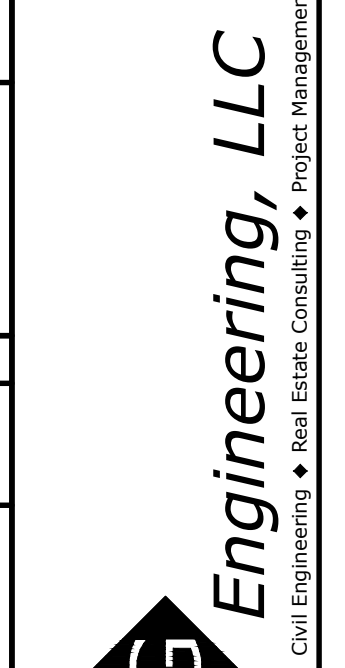
CROSSING	SIZE (IN.)	MATERIAL	UTILITY	BOTTOM OF PIPE	TOP OF PIPE	CLEARANCE
A	10"	DIP	WM	631.39	629.89	1.50'
B	10"	N/A	STM	632.83	629.89	2.94'
C	4"	N/A	WM	631.90	629.89	2.01'
D	12"	RCP	STM	634.05	633.40	0.65'
E	10"	PVC	SAN	632.61	631.11	1.50'
F	12"	RCP	STM	632.80	632.33	0.47'
G	8"	VCP	SAN	632.00	631.51	0.49'
H	18"	RCP	STM	UNKNOWN	631.40	1.50' SEPARATION REQUIRED

EXISTING UTILITY STRUCTURE SCHEDULE - EAST

SANITARY SEWER STRUCTURES	
① EX SAN M.H. RIM=638.77 INV=632.47 (15" VCP E) INV=633.12 (10" VCP SE) INV=632.42 (15" VCP S)	② EX SAN M.H. RIM=637.57 INV=632.37 (15" VCP N) INV=632.67 (10" NE) INV=632.07 (15" SW)
③ EX SAN COMBINATION M.H. RIM=637.83 INV=631.39 (N) INV=631.39 (N) (RECORDS SHOW A M.H. IN THE STREET NEAR NORTH END OF PROPERTY, NONE WAS FOUND AND NO INDICATION OF ONE WAS FOUND) INV=632.33 (15" VCP NE) INV=632.35 (24" S) INV=632.34± (10" SE) INV=631.43 (24" W) (CONNECTING M.H. TO THE WEST SHOWS A 12" INVERT TO THE EAST, NO INFO. AS TO WHERE SIZE CHANGES AVAILABLE)	④ EX SAN COMBINATION M.H. RIM=638.61 INV=630.61 (24" N) INV=630.71 (24" S)
⑤ EX SAN COMBINATION M.H. RIM=636.78 INV=631.33 (12" E) INV=631.38 (12" W) INV=631.60 (SE)	⑥ EX SAN COMBINATION M.H. RIM=637.17 INV=631.42 (12" E) INV=632.87 (12" NW) INV=631.57 (12" W)
⑦ EX SAN M.H. RIM=638.29 INV=632.96 (8" VCP NE) INV=633.19 (6" VCP SW) INV=632.88 (8" VCP SW)	
STORM SEWER STRUCTURES	
① EX STM C.B. RIM=638.65 INV=634.23 (6" VCP S)	② EX STM C.B. RIM=637.06 INV=632.46 (6" VCP N) INV=632.46 (6" VCP ±S) INV=633.66 (10" RCP E)
③ EX STM C.B. RIM=637.21 INV=634.26 (10" RCP W)	④ EX STM C.B. RIM=637.28 INV=635.98 (4" CIP NE) INV=634.73 (6" CIP S)
⑤ EX STM INLET RIM=639.01 INV=635.51 (L" SW)	⑥ EX STM M.H. RIM=640.10 INV=635.51 (L" SW) INV=631.20 (SW) INV=630.80 (SE)
⑦ EX STM C.B. RIM=638.58 INV=636.53 (12" RCP SE)	⑧ EX STM C.B. RIM=637.45 INV=634.96 (6" VCP NW) INV=633.00 (10" SE) INV=634.20 (6" PVC S) (DRN & PLUG)
⑨ EX STM INLET RIM=637.41 INV=635.01 (6" PVC N)	⑩ EX STM C.B. RIM=637.20 INV=632.70 (6" VCP NW) INV=632.80 (8" VCP S)
⑪ EX STM INLET RIM=637.04 INV=636.40 TOP OF PIPE TO SOUTH=634.40	⑫ EX STM CURB C.B. RIM=636.40 TOP OF PIPE TO SOUTH=634.40
⑬ EX STM CURB C.B. RIM=636.46 TOP OF PIPE TO NORTH=634.16 INV=632.86 (NW)	⑭ EX STM CURB C.B. RIM=636.72 TOP OF 12" PIPE TO EAST=634.37 INV=633.47 (12" S)
⑮ EX STM CURB C.B. RIM=636.74 TOP OF PIPE TO NORTH=634.69 (PVC INSIDE RCP)	⑯ EX STM M.H. RIM=638.82 INV=632.22 (N,S) INV=632.27 (E) INV=632.42 (W) ALL PIPES ARE ±8"
⑰ EX STM C.B. RIM=638.62 INV=635.67 (6" DIP N) INV=635.52 (6" DIP SE)	
WATERMAIN STRUCTURES	
① EX VALVE VAULT (NEW) RIM=639.28 T/P=632.28 PER RECORDS THE NEW MAIN GOING EAST IS 10" D.I.P. AND THE SOUTH IS 8" - RECORD SHOWS NO MAIN HEADING NORTH, BUT IS VISIBLE IN FIELD. RECORDS SHOW IT CONNECTING TO OLD MAIN COMING FROM VAULT NO. 2 BUT NOT VISIBLE IN FIELD	② EX VALVE VAULT RIM=638.95 T/P=633.45 RECORDS SAY IT IS 8"
③ EX VALVE VAULT RIM=638.55 T/P=633.75 THIS IS A NEW MAIN ALSO RECORDS SHOW NO VAULT HERE BUT FOUND IN FIELD	
④ EX VALVE VAULT RIM=637.46 FULL OF SILT AT ELEV.=634.76 MOST LIKELY HAVING BEEN PART OF THE OLD MAIN CONNECTING TO VAULT NO. 2. RECORDS SHOW NO VAULT HERE WHERE FOUND IN FIELD	⑤ EX VALVE VAULT RIM=637.42 T/P=628.12 RECORDS SAY THIS IS 8" AND GENERALLY AGREE WITH FIELD MARKINGS AND CONNECTION TO NEW MAIN IN THE EASTERLY SIDE OF THE RIGHT OF WAY
⑥ EX VALVE VAULT RIM=638.02 UNABLE TO OPEN	

622 GRACELAND AVE. APARTMENTS
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 UTILITY PLAN - EAST

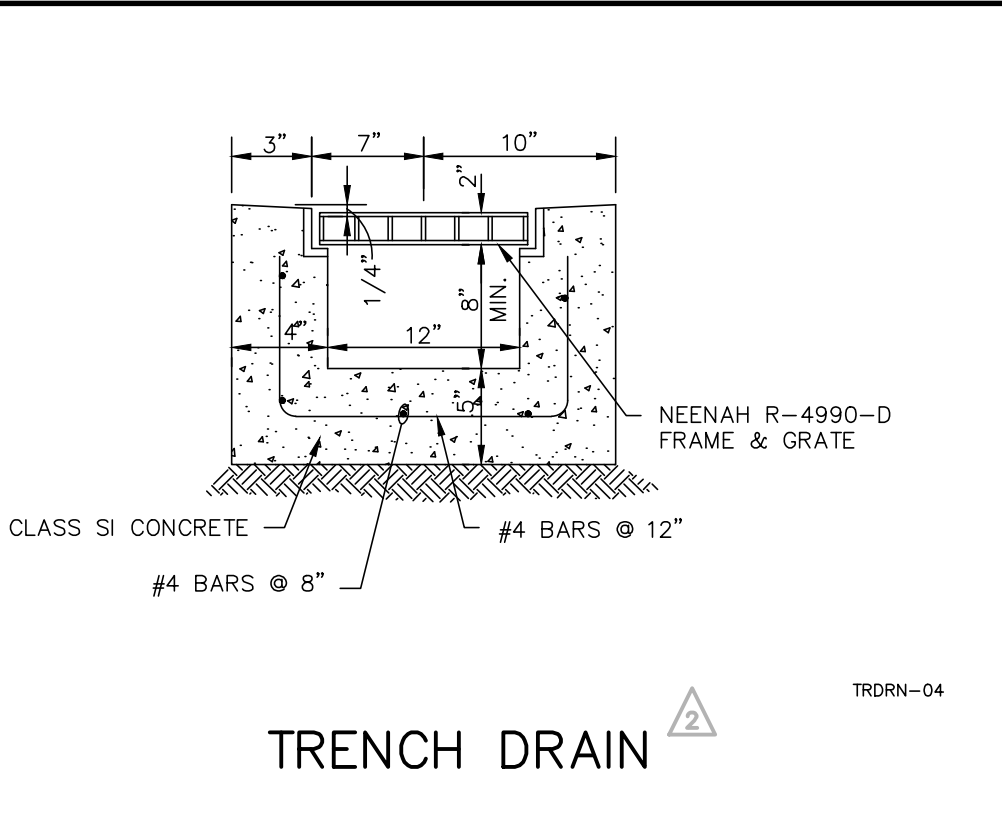
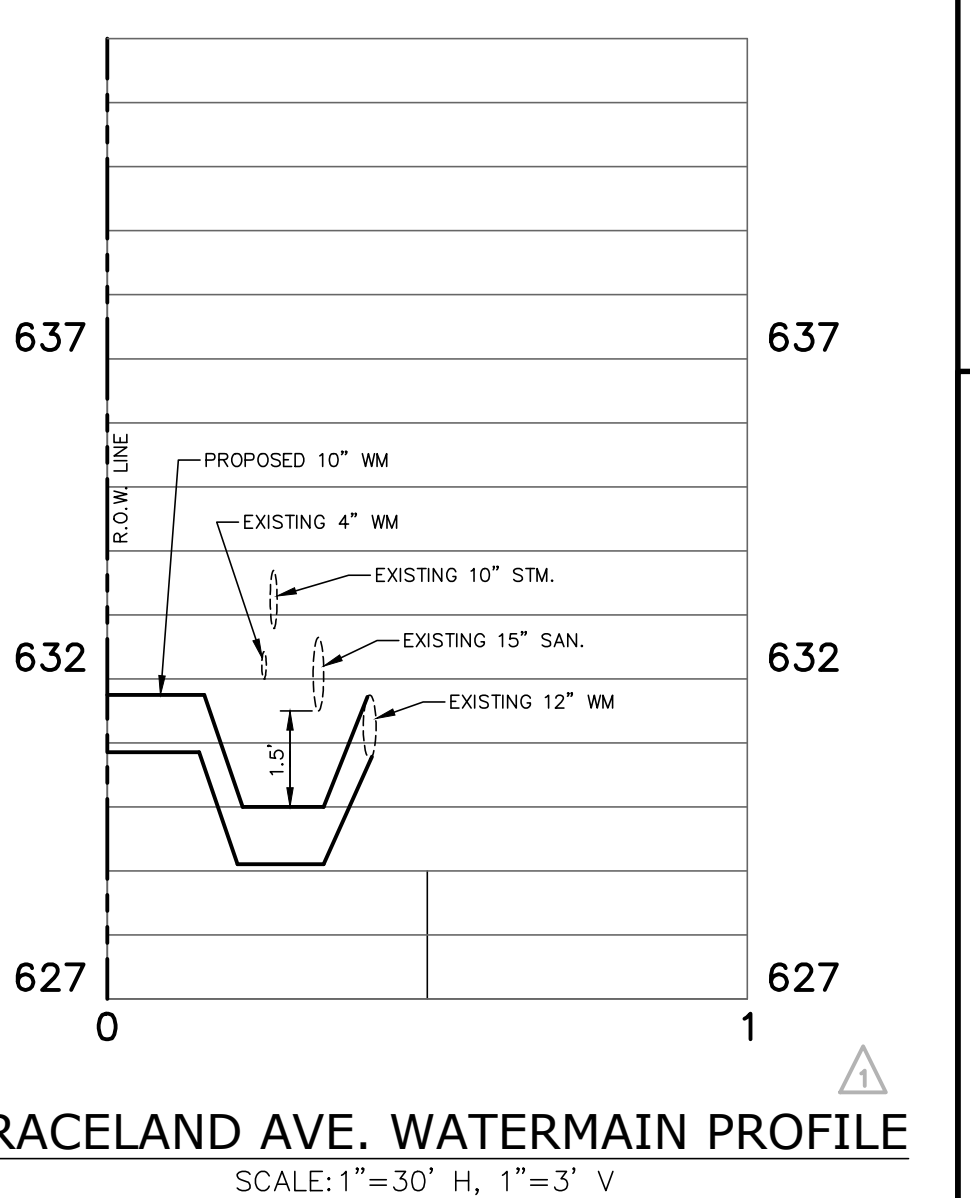
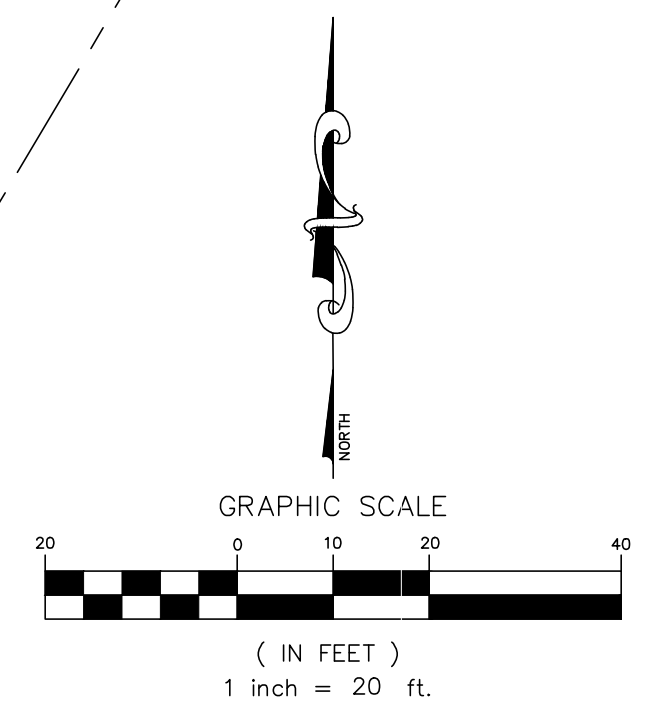
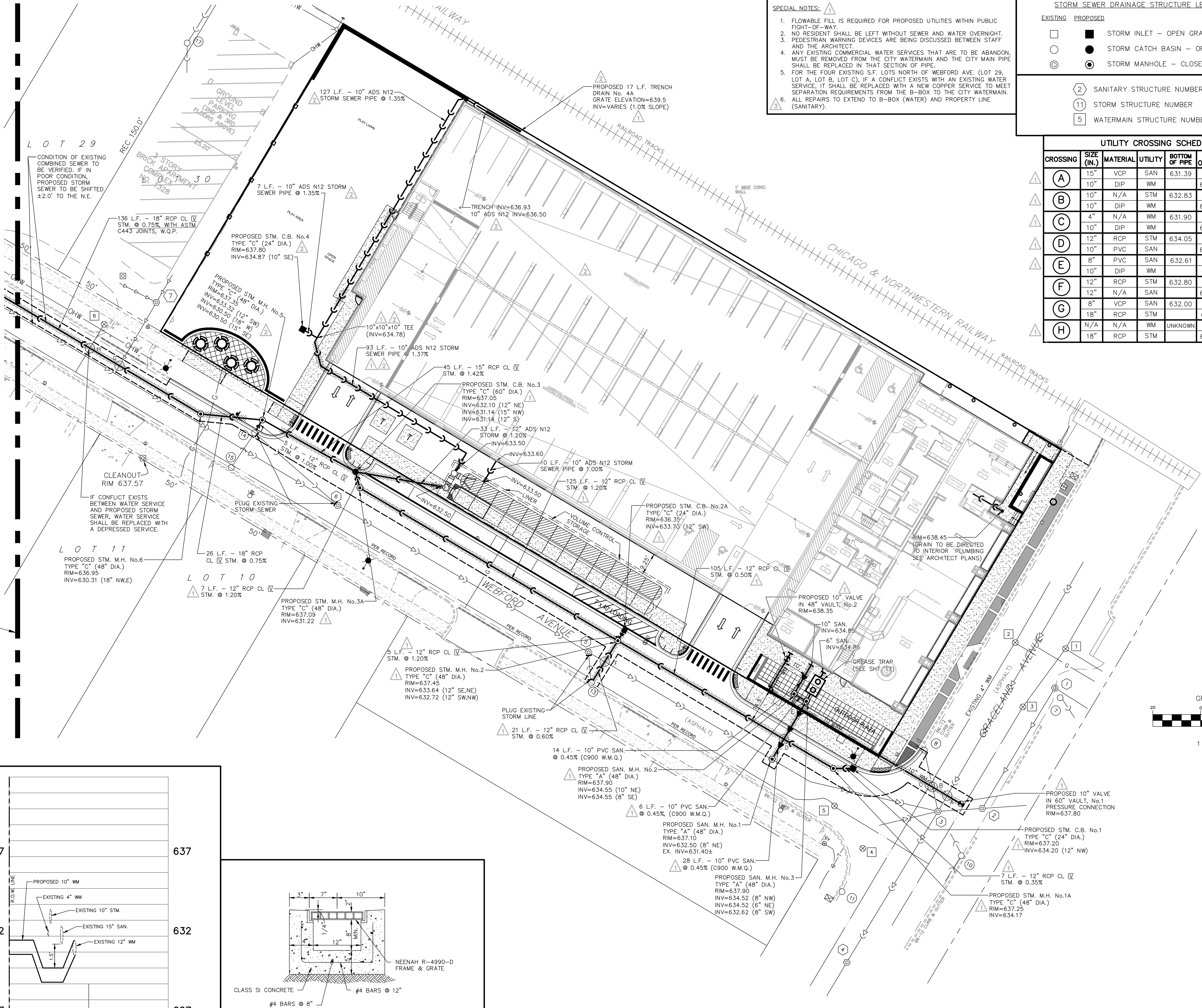
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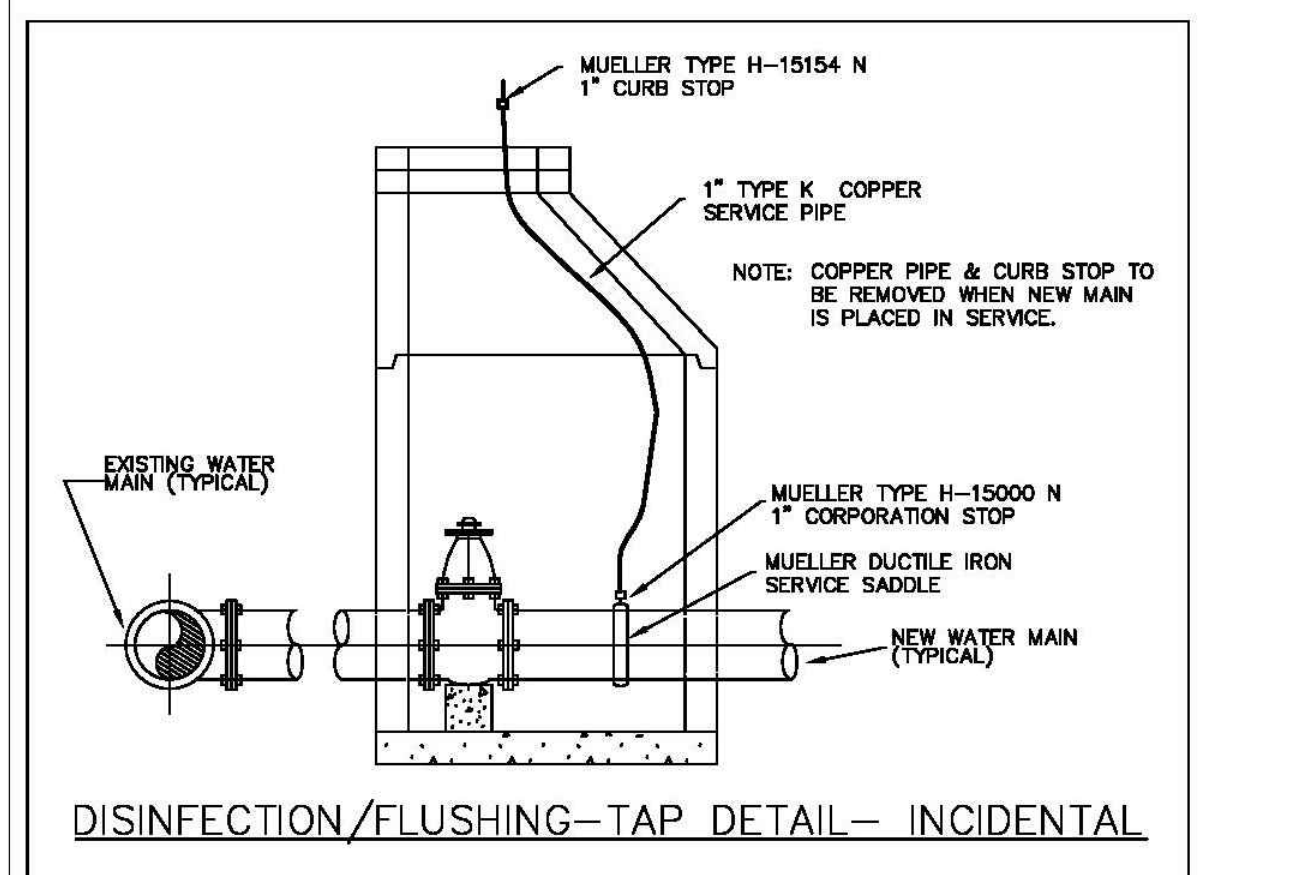
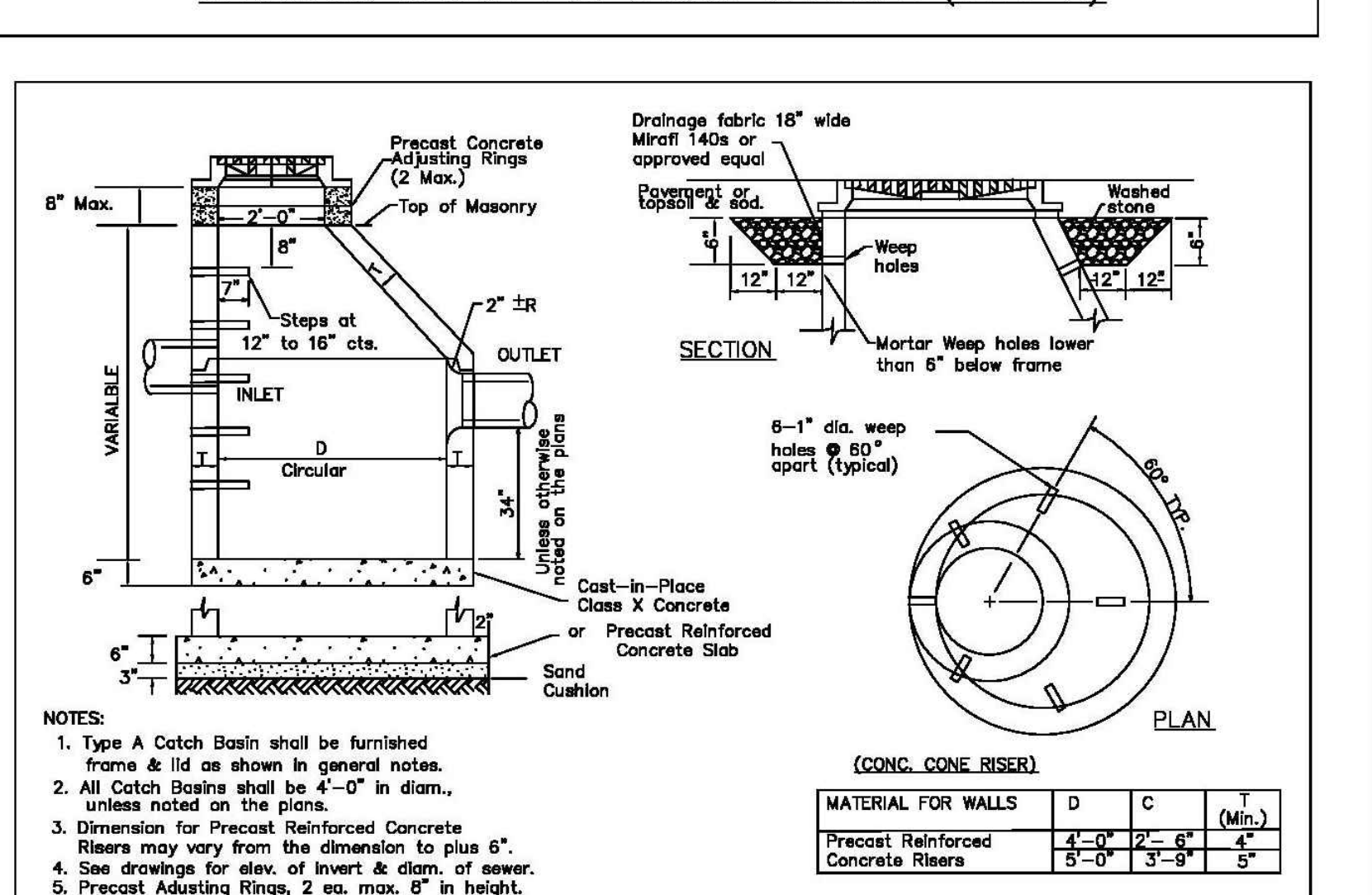
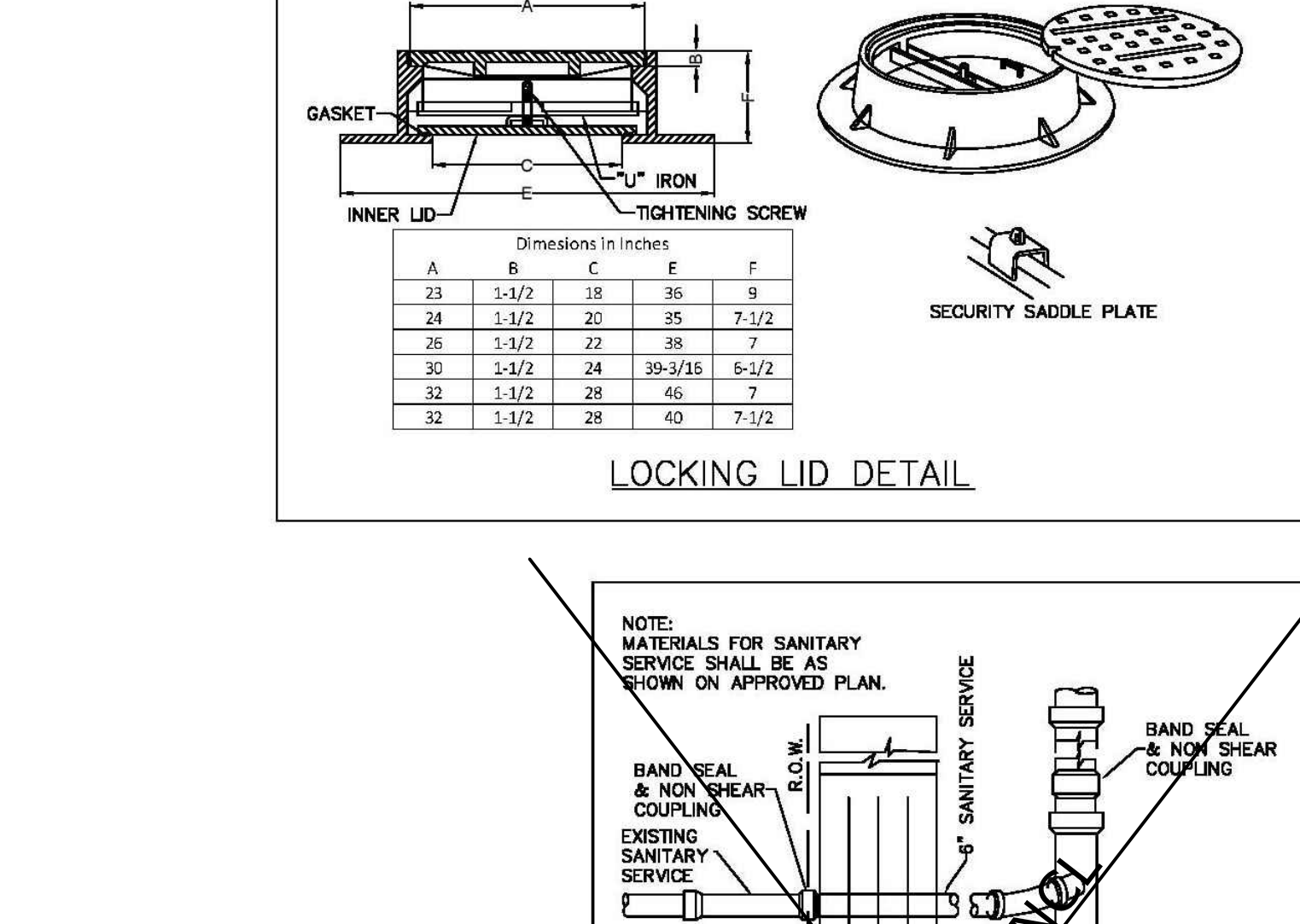
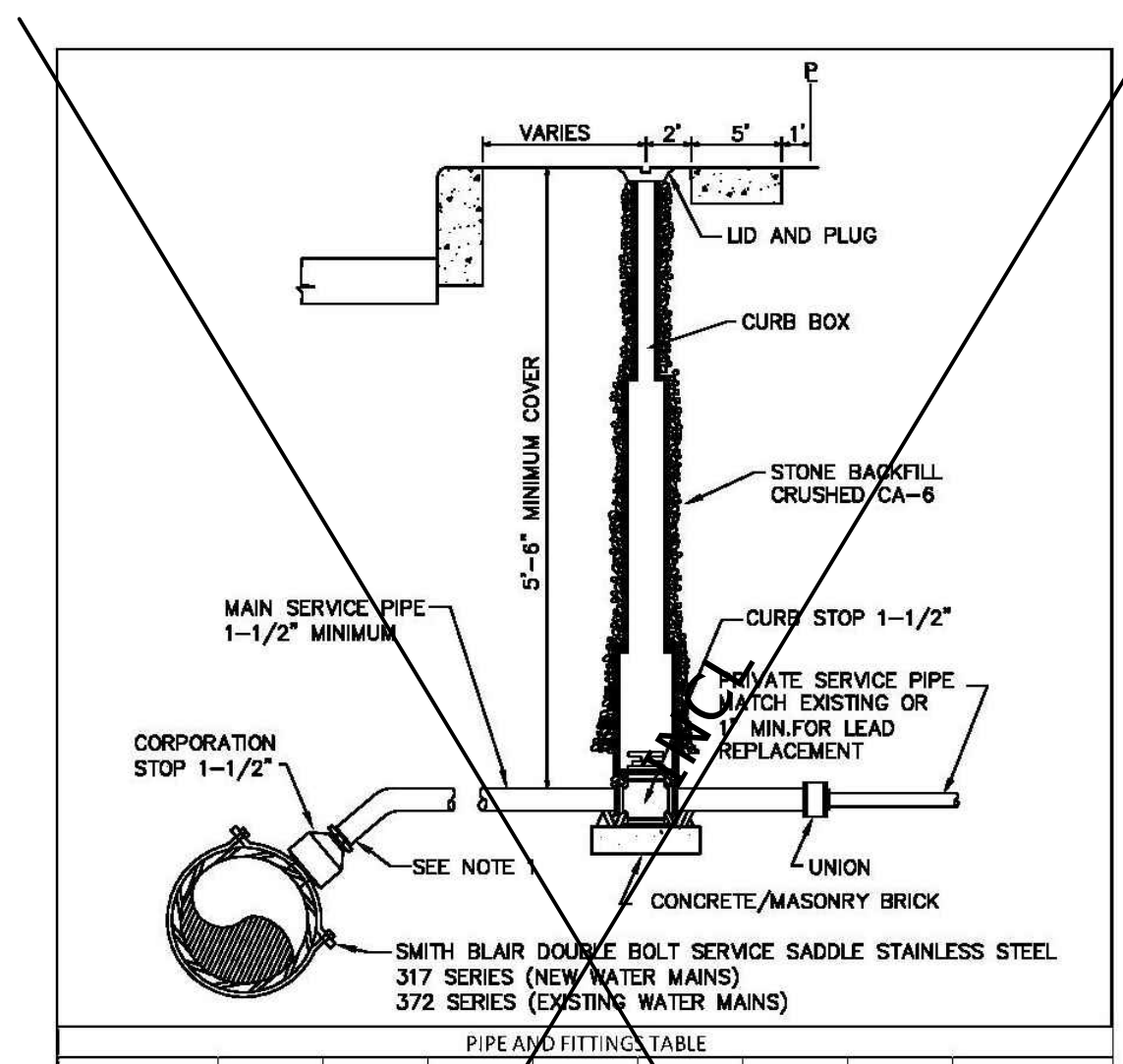
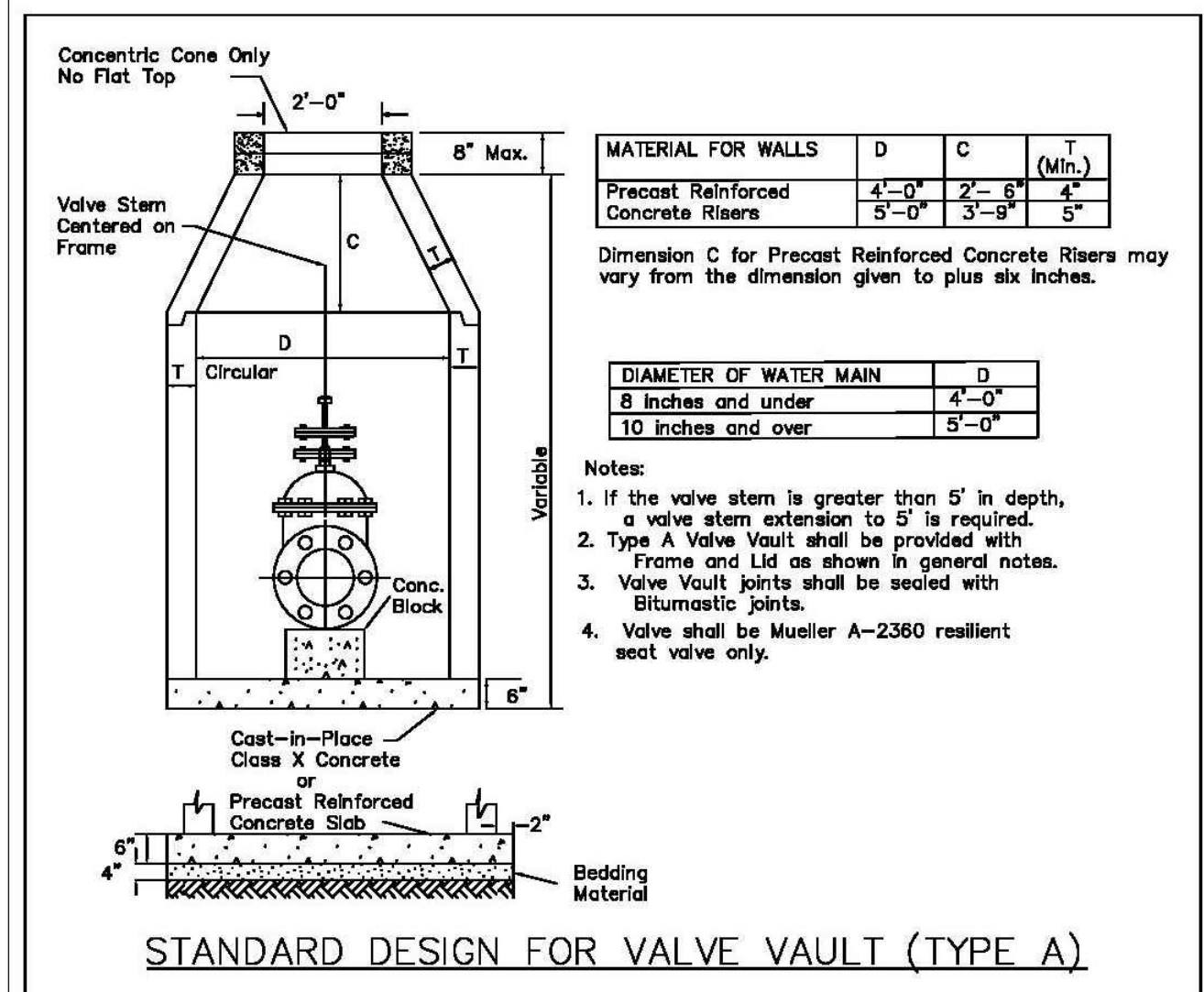
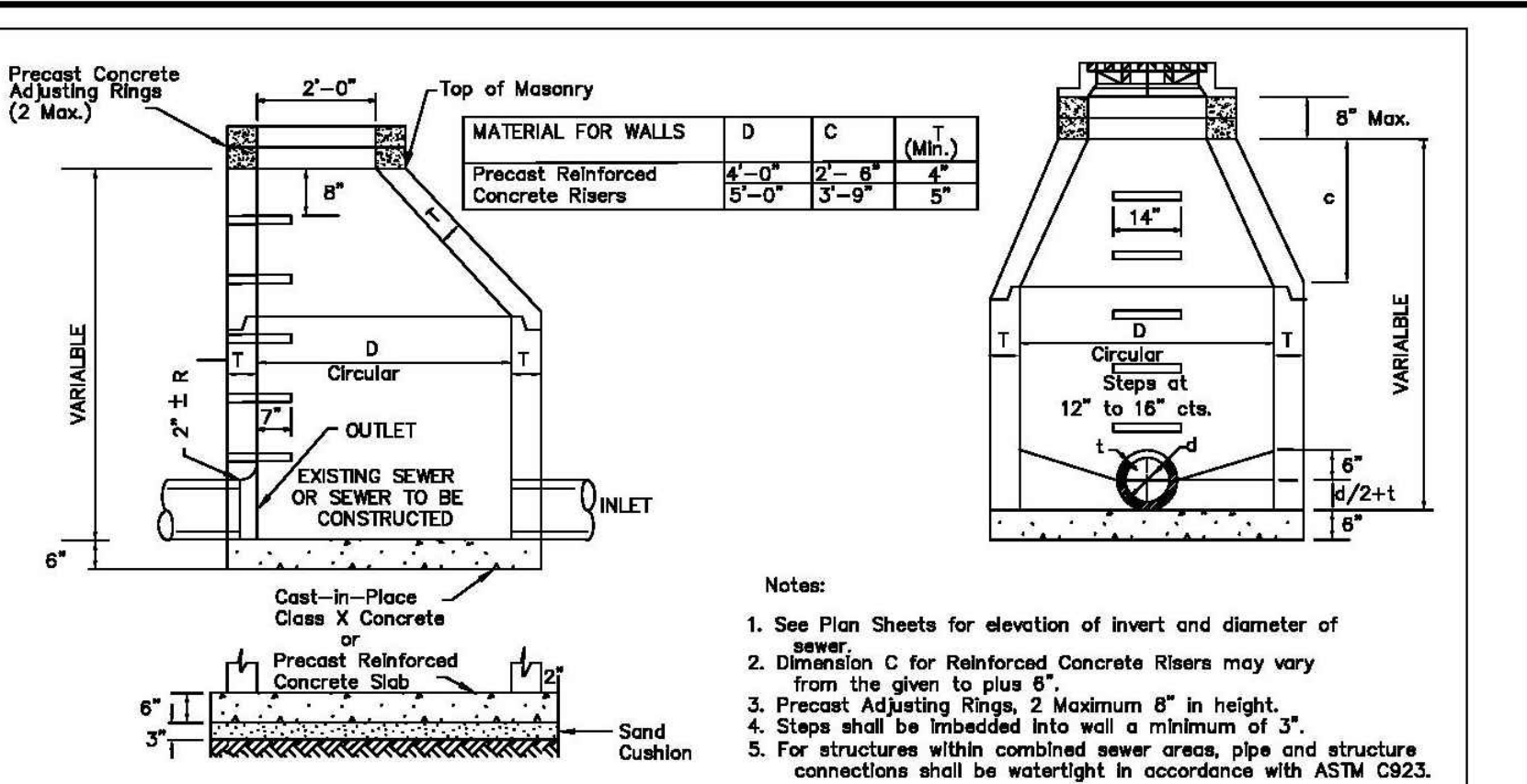
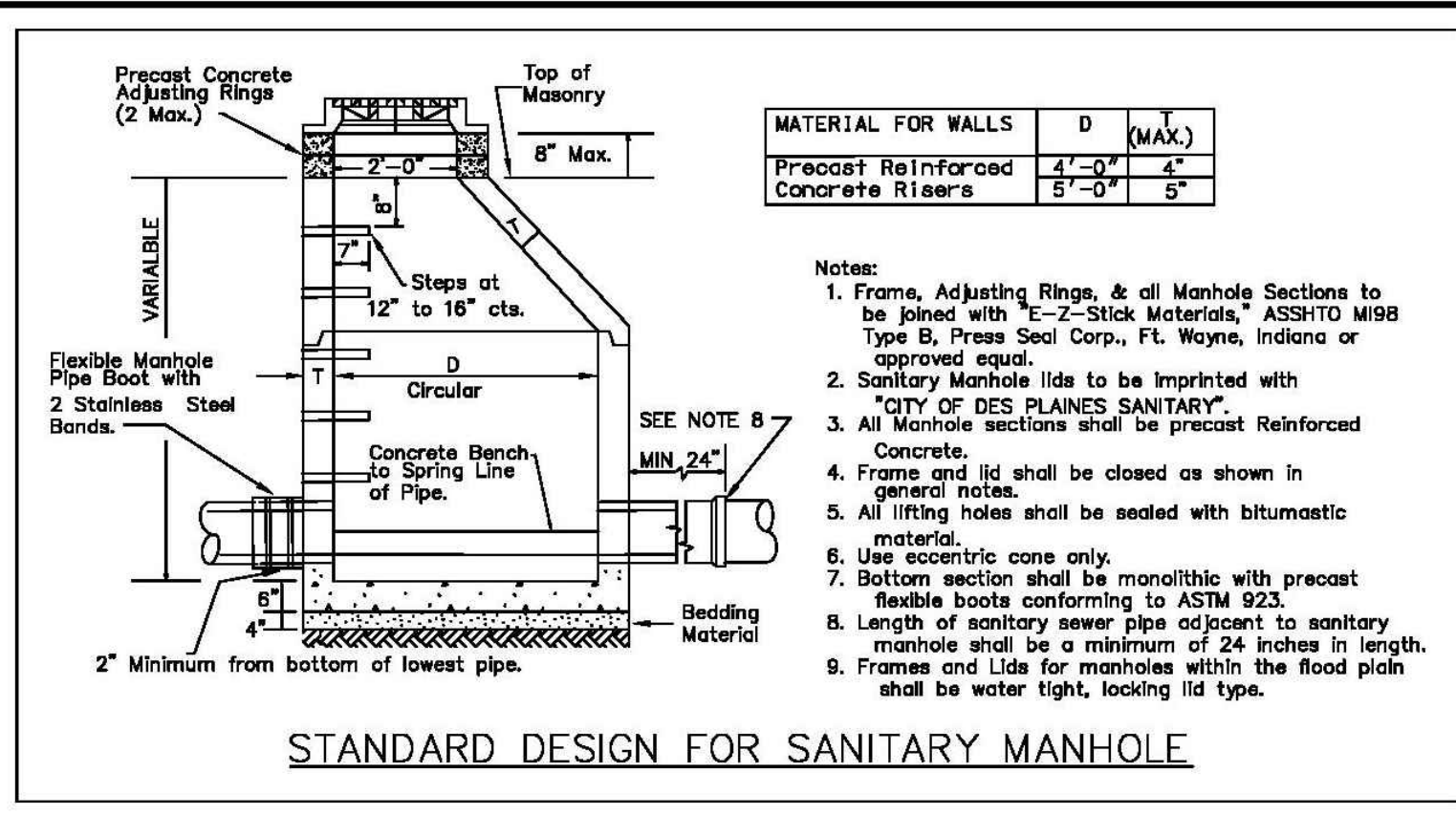
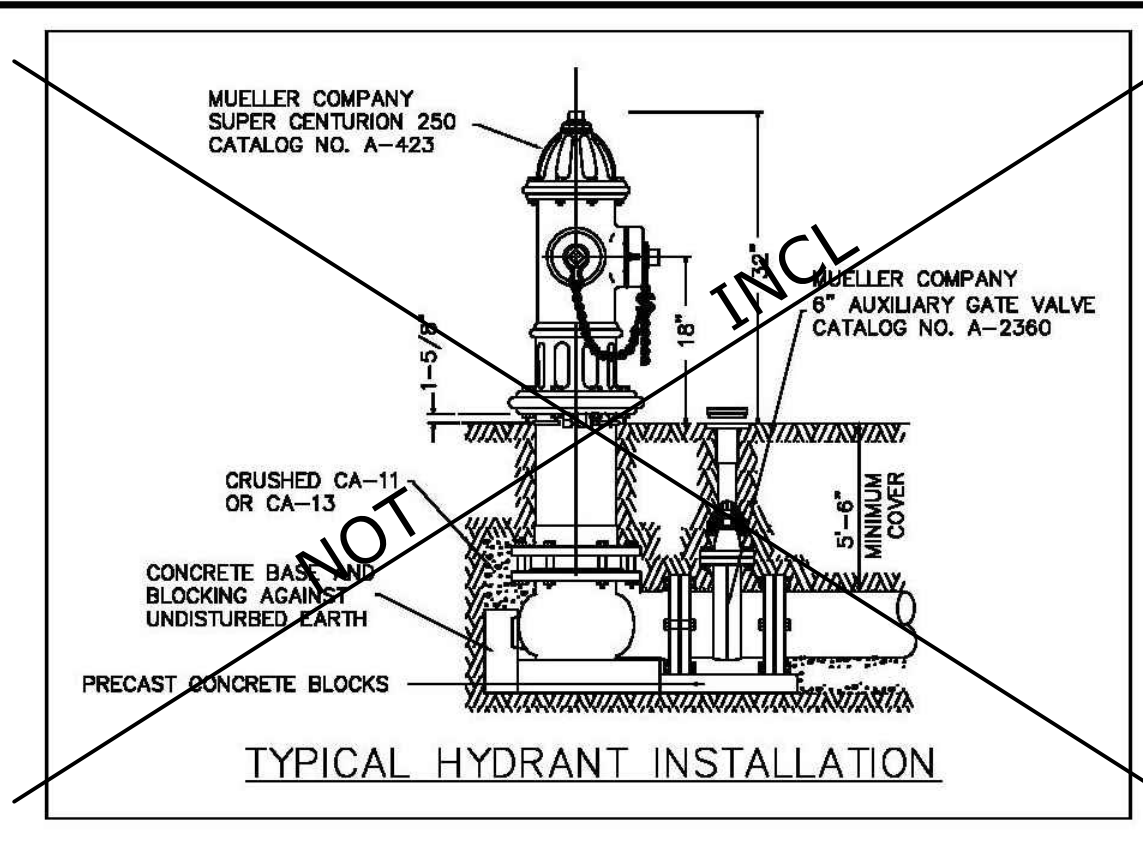
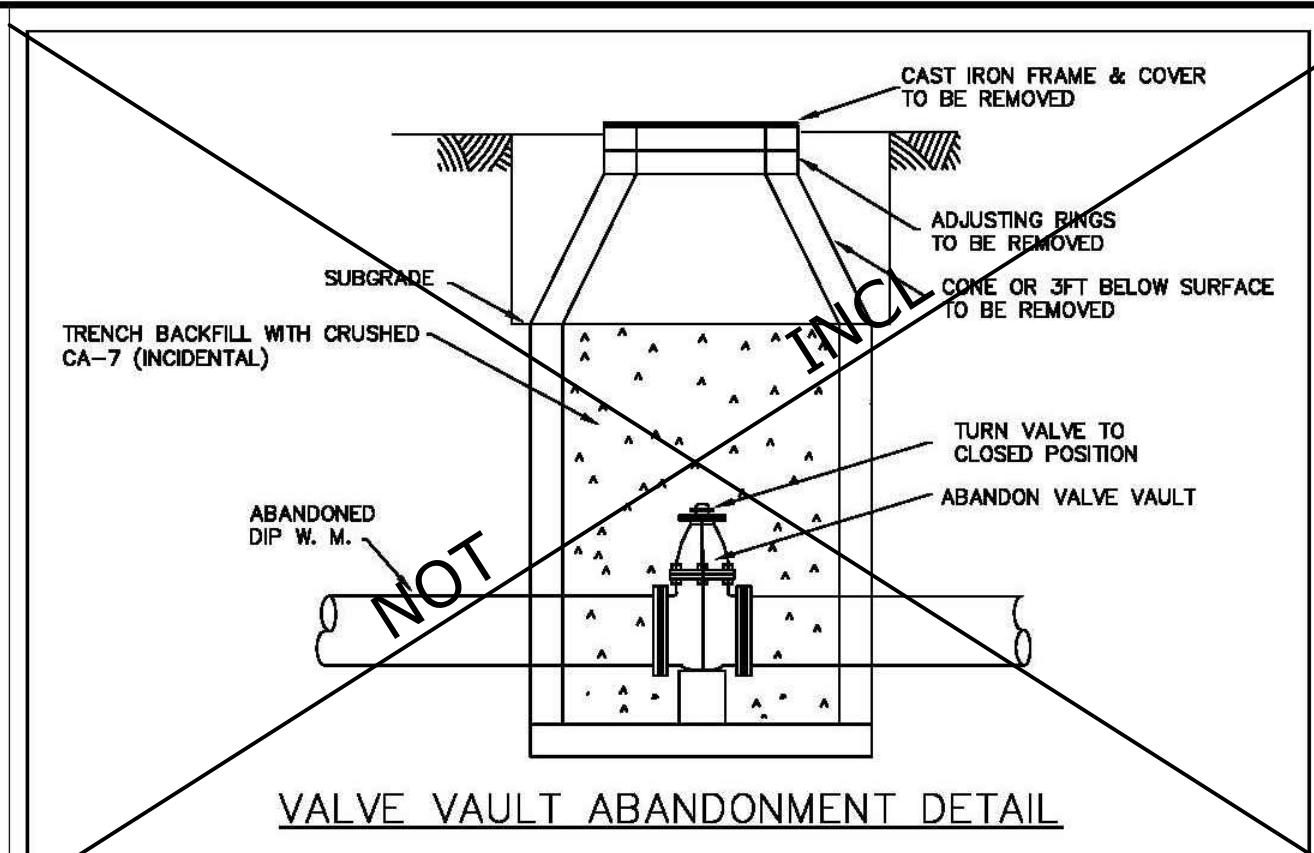


PROJECT NO. 63912021
 DATE 12/09/22
 SCALE 1"=20'
 PROJ. MGR. MRM
 PROJ. ASSOC. MKR
 DRAWN BY TLM

SHEET

12 OF 20



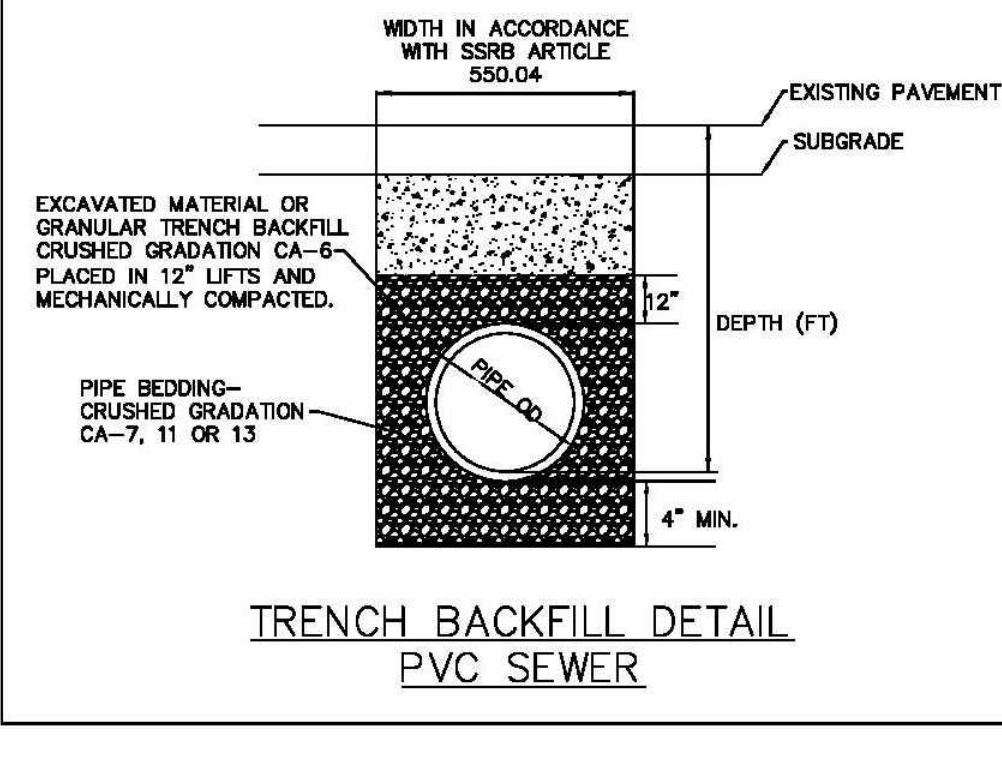
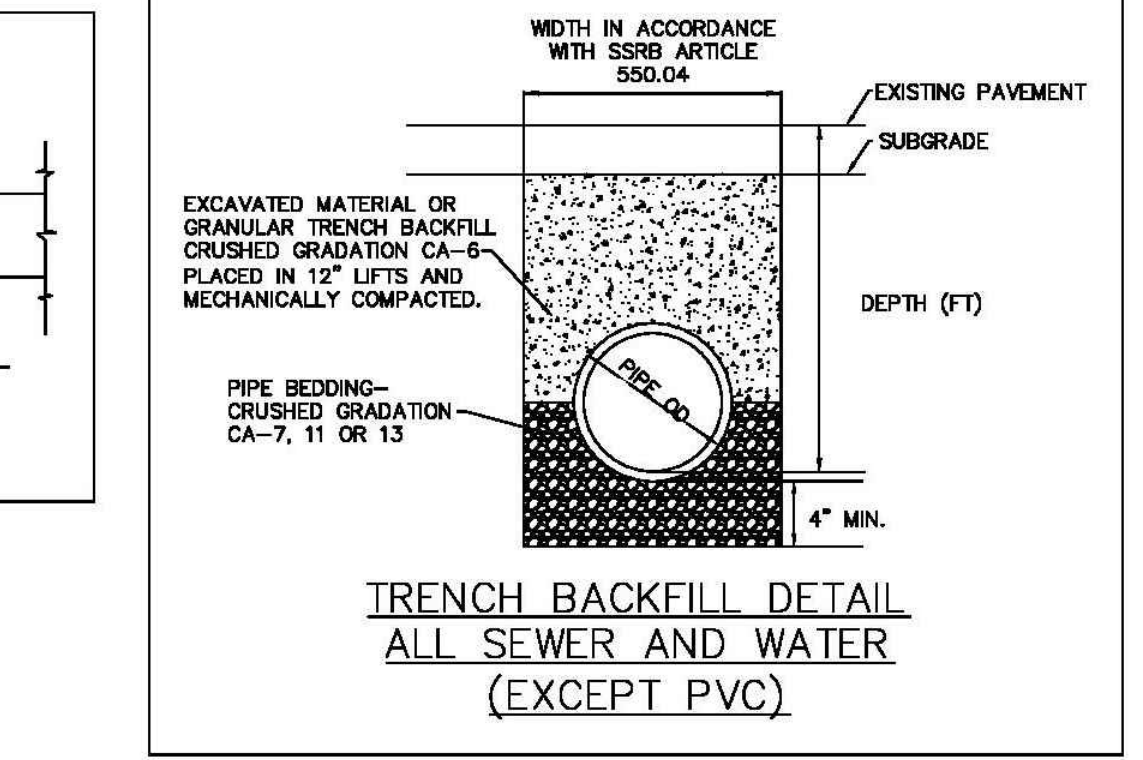
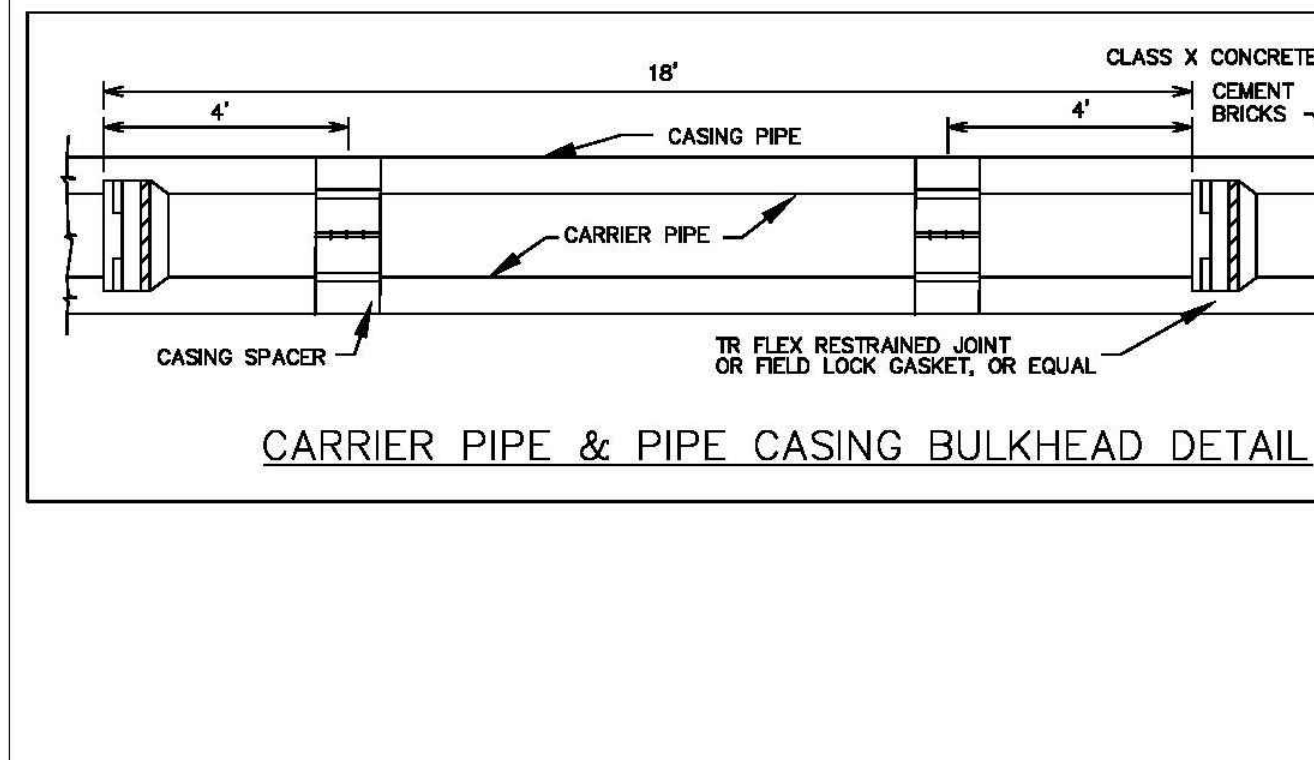
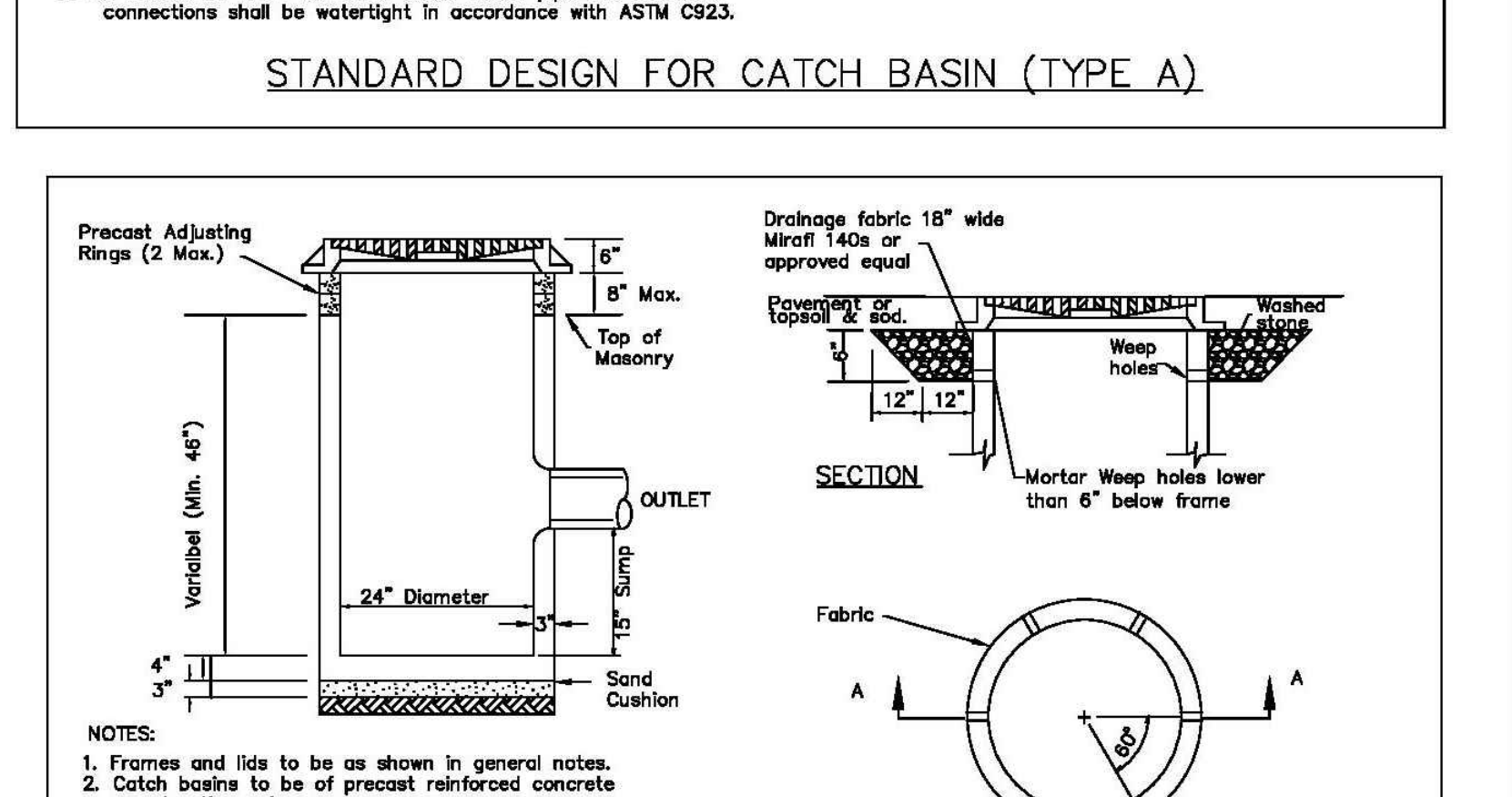
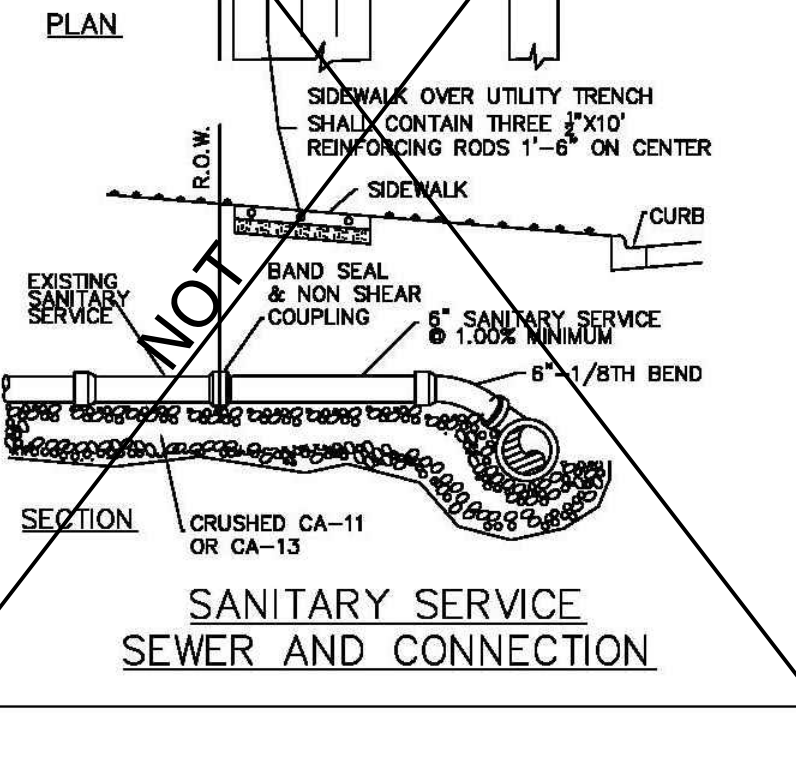
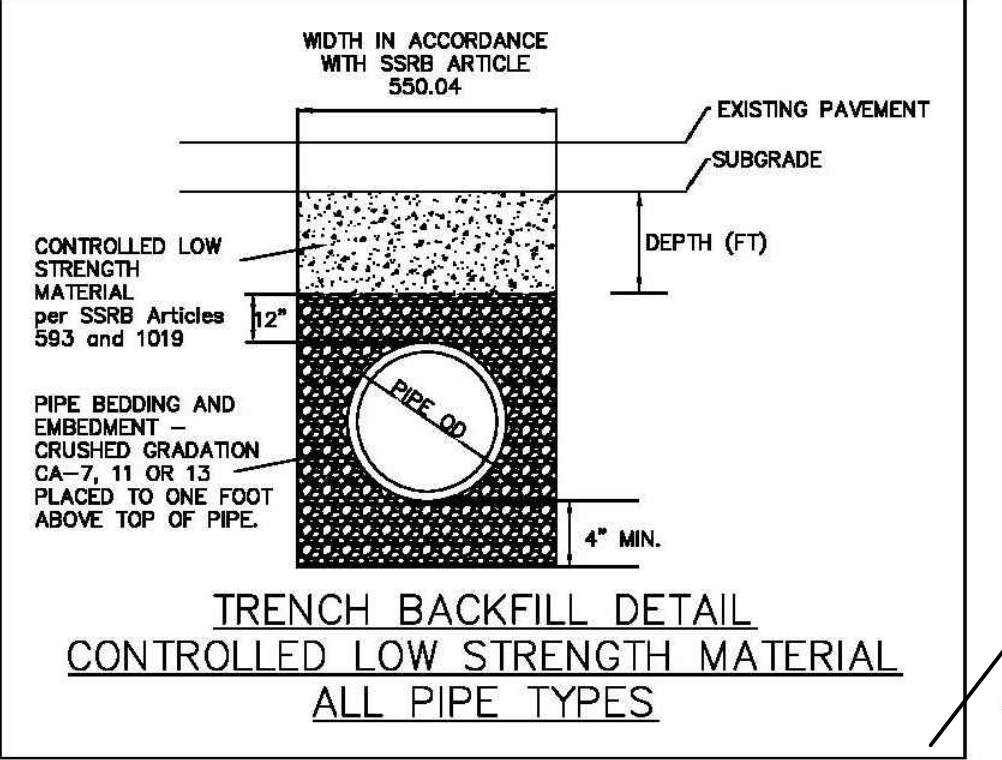


PIPE AND FITTING TABLE

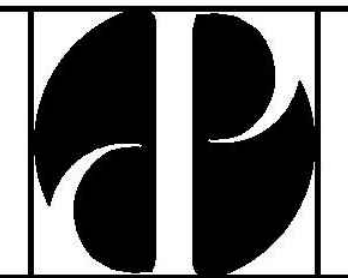
MAIN SERVICE LINE 1-1/2"	CORP STOP	45° BEND STOP	SS CTS INSERT	UNION	CURB BOX ADAPTER	PRIVATE SERVICE LINE 1"
MUELLER HDPE CTS SDR 9	MUELLER B25008N	N/A	MUELLER B25155N	MUELLER #506139	MUELLER H15403N PLUG	N/A
MUELLER HDPE CTS SDR 9	MUELLER LAD-665	N/A	MUELLER H15000N			HDPE CTS SDR 9
MUELLER TYPE K COPPER	MUELLER H15000N	N/A	MUELLER LAD2-665	MUELLER H15154N	MUELLER H15400N PLUG	MUELLER W/89980 H15044
						TYPE K COPPER

NOTES:

- CONTRACTORS ALLOWED TO USE A 45° BEND AT THE CORPORATION STOP (INCIDENTAL).
- WHERE A LEAD OR GALVANIZED STEEL SERVICE LINE IS TO BE REPLACED, 1" MINIMUM PIPING SHALL BE USED.
- WHERE THE EXISTING PRIVATE SERVICE LINE IS COPPER, THE CONNECTION SHALL BE MADE AT THE RIGHT OF WAY WITH APPROPRIATE SIZE COUPLINGS TO MATCH THE EXISTING LINE SIZE.
- MUELLER CURB BOX H15004 WITH 89981 LID AND PLUG MAY BE USED WITH MUELLER H15154N CURB STOP (NO ADAPTER), UPON APPROVAL OF THE ENGINEER.



REV. NO.	DATE	DESCRIPTION



CITY OF DES PLAINES
PUBLIC WORKS AND ENGINEERING DEPARTMENT
1420 MINER STREET
DES PLAINES, IL 60016
PHONE-847-391-5390 FAX 847-391-5619
WWW.DESPLAINES.ORG

DETAIL SHEET

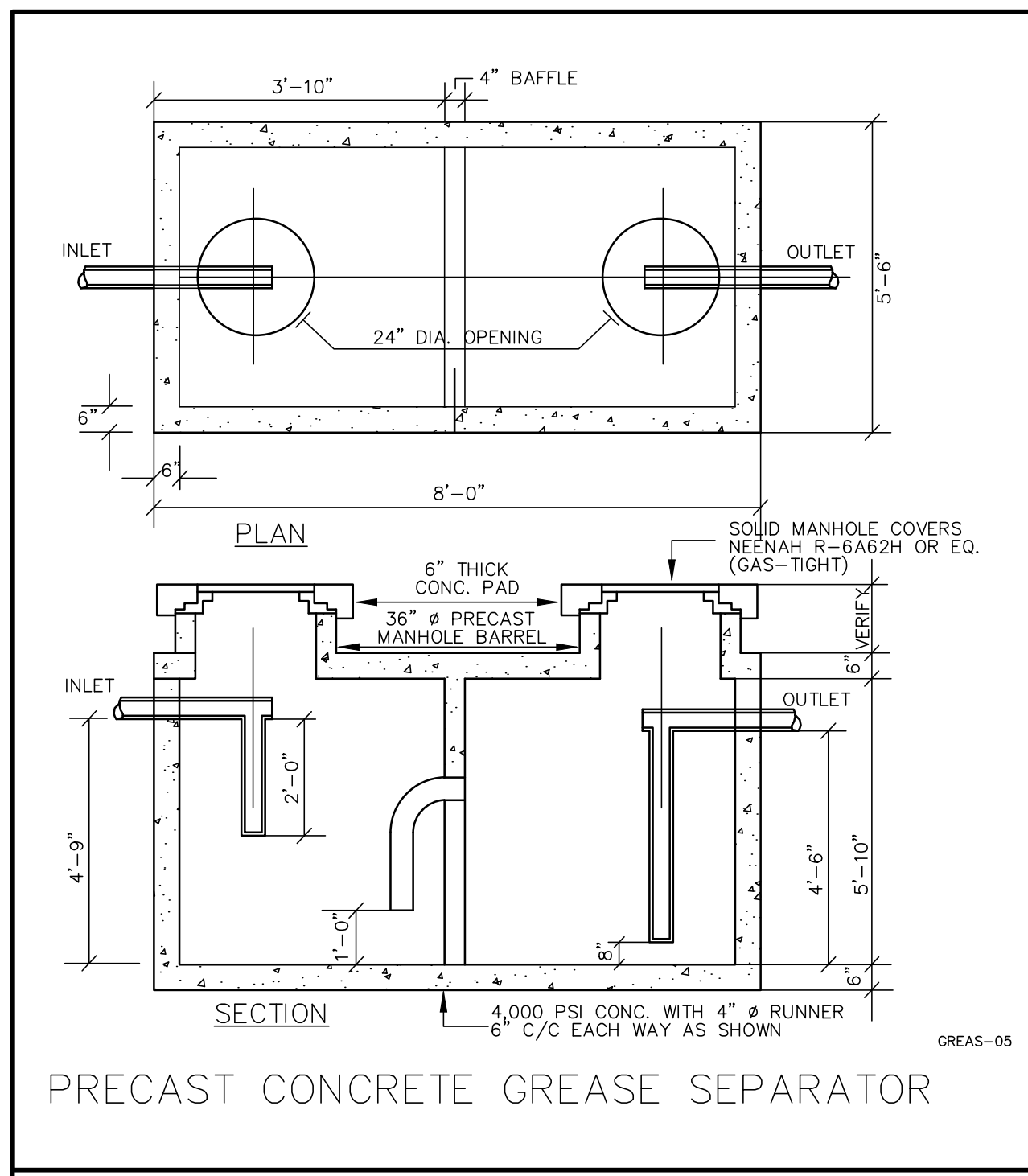
DESIGNED BY	SCALE
BLS/AJD	HORIZ: N/A
CHECKED BY	VERT: N/A
AJD	
APPROVED BY	SHEET NO.
TPO	1 OF 2
DATE	
2/22/2022	

PROJECT NO. 63912021
DATE 12/09/22
SCALE NONE
PROJ. MGR. MEM
PROJ. ASSOC. MKB
DRAWN BY TLM

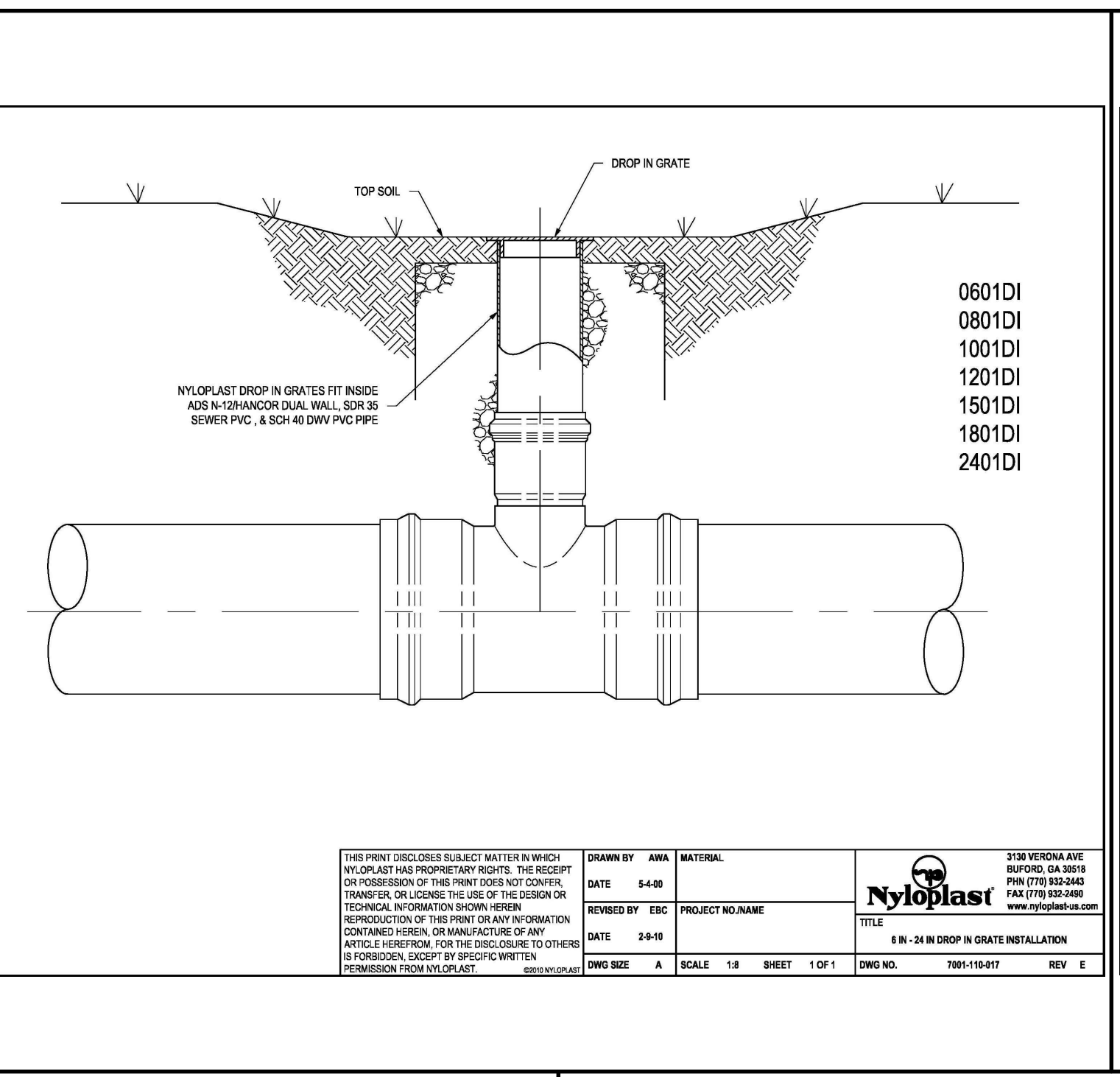
622 GRACELAND AVE. APARTMENTS
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CONSTRUCTION DETAILS AND STANDARDS

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Wheaton, IL 60189
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www.rwg-engineering.com

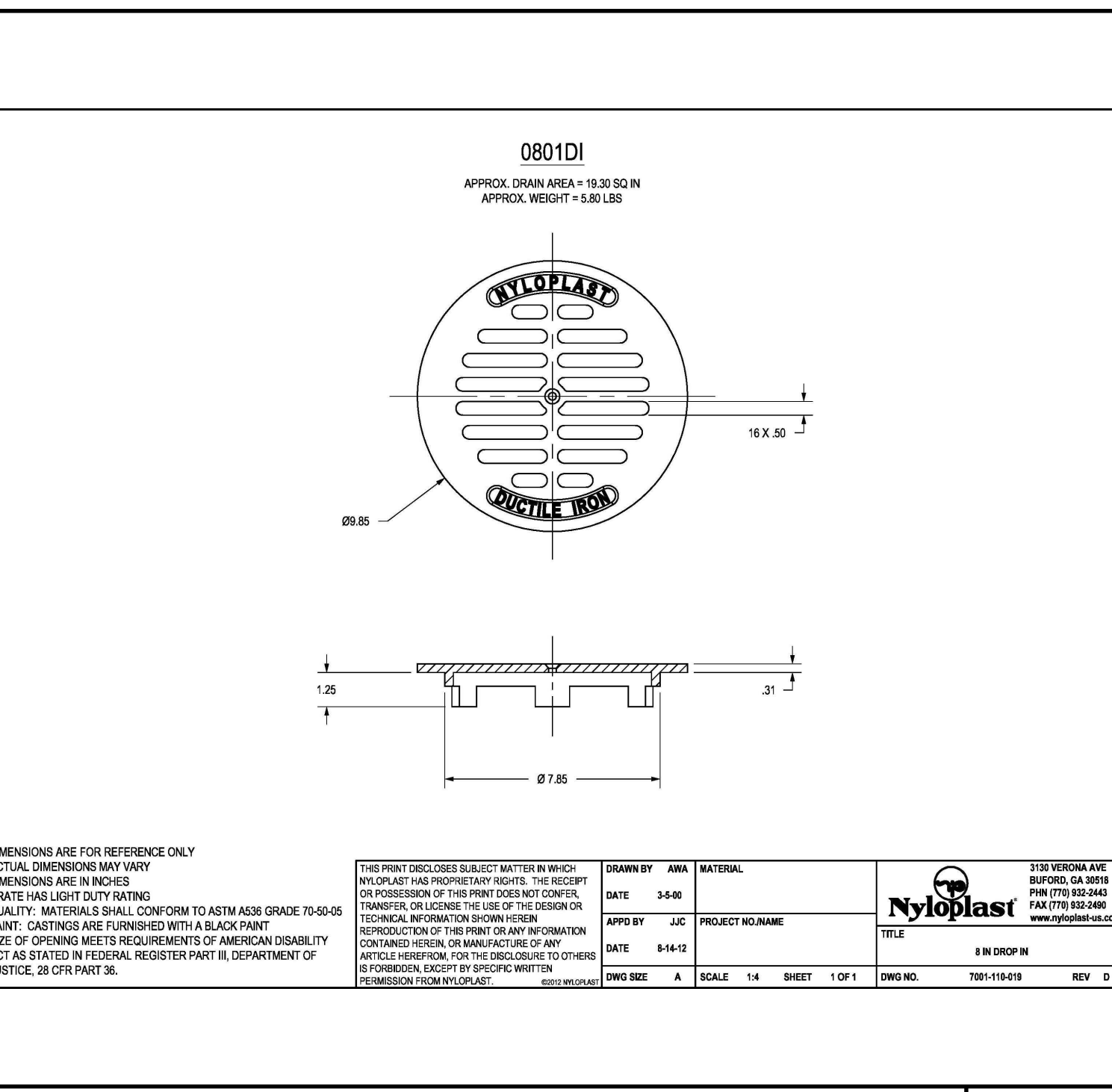
DRAWN BY TLM
REVISIONS
1. 01/17/23 CITY REVIEW #1 & ARCHITECT REVISIONS
2. 02/17/23 ARCHITECT REVISIONS
3. 02/27/23 PER CITY REVIEW



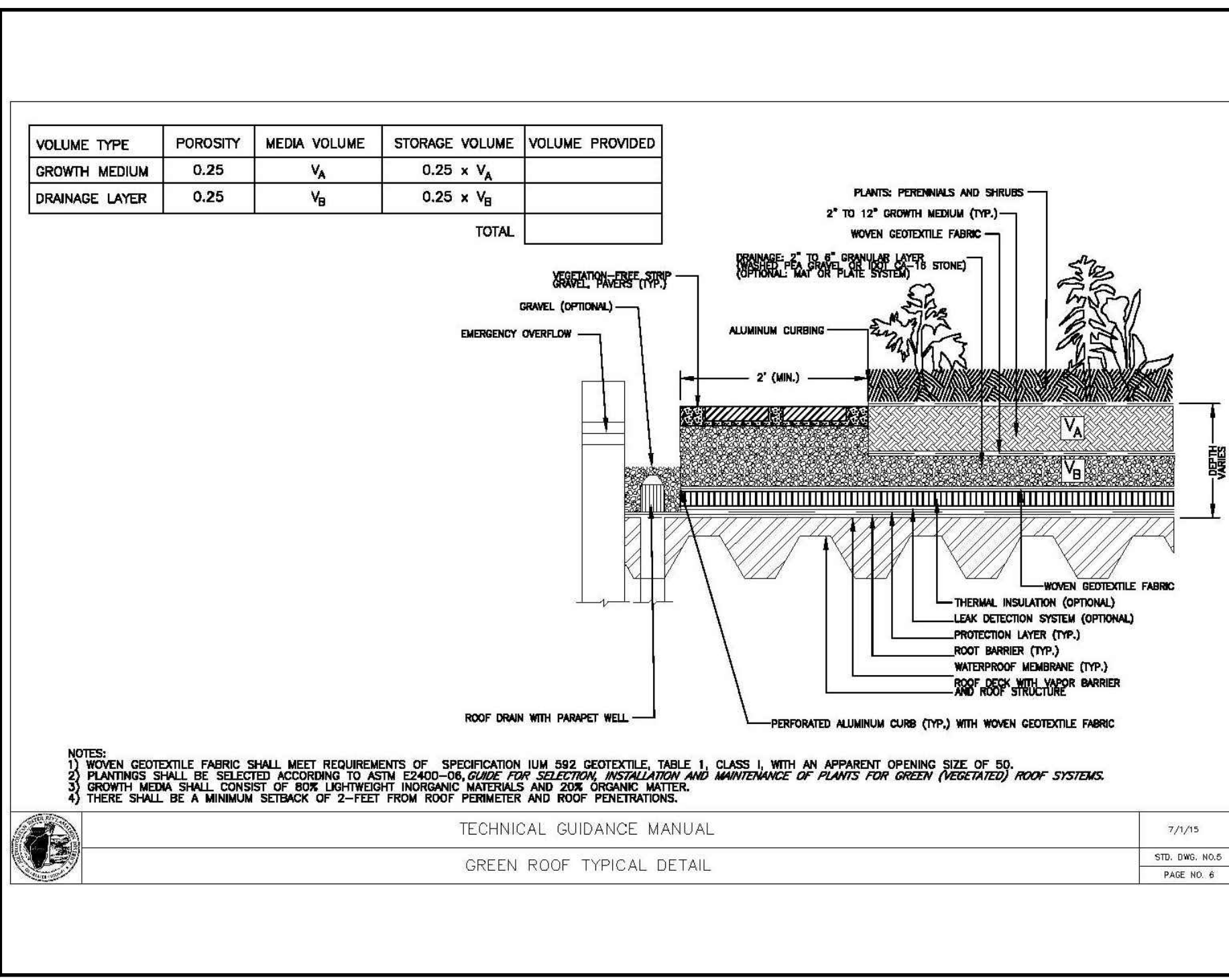
PRECAST CONCRETE GREASE SEPARATOR



DROP GRATE



NYLOPLAST DROP GRATE



GREEN ROOF TYPICAL DETAIL

PROJECT INFORMATION

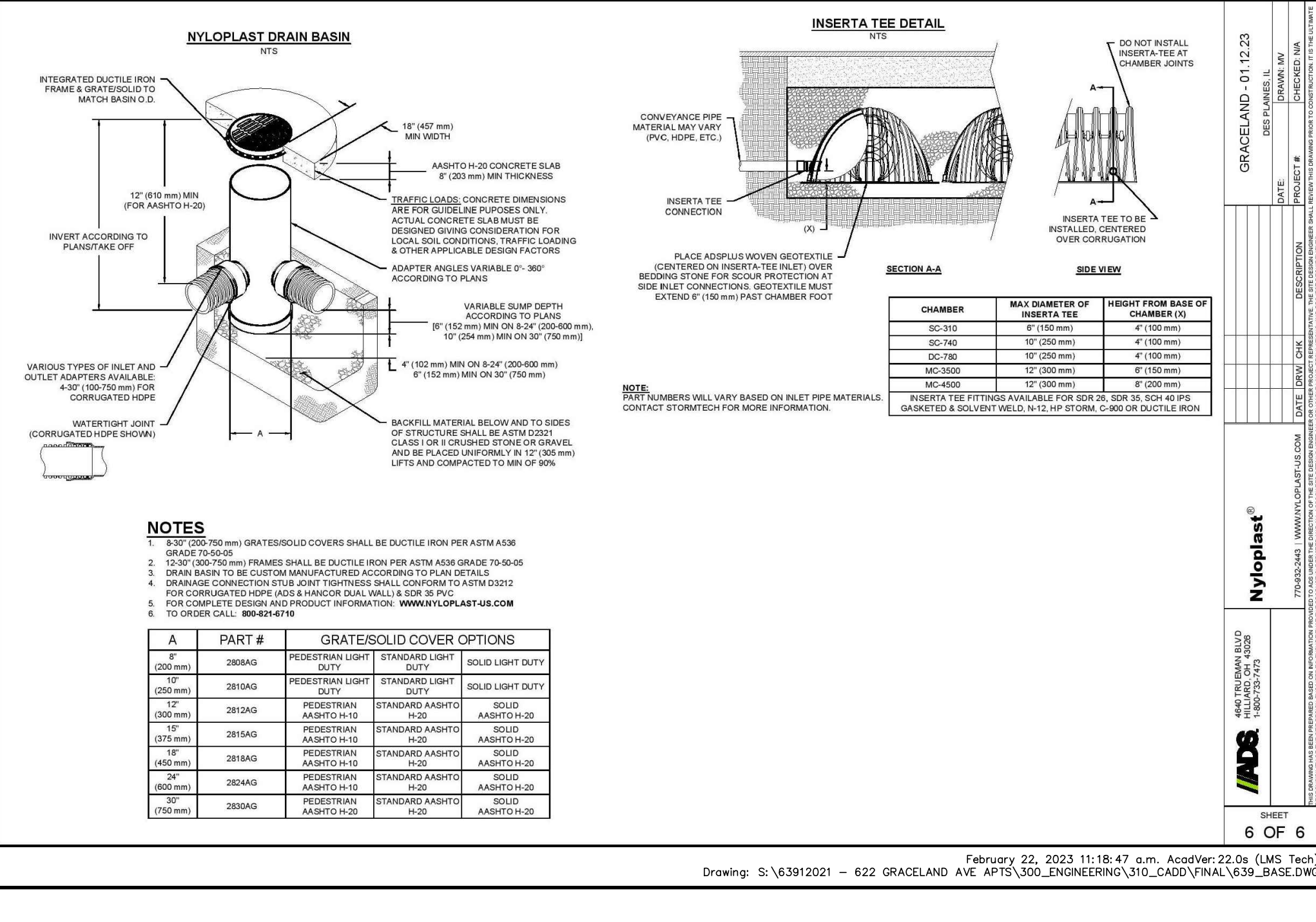
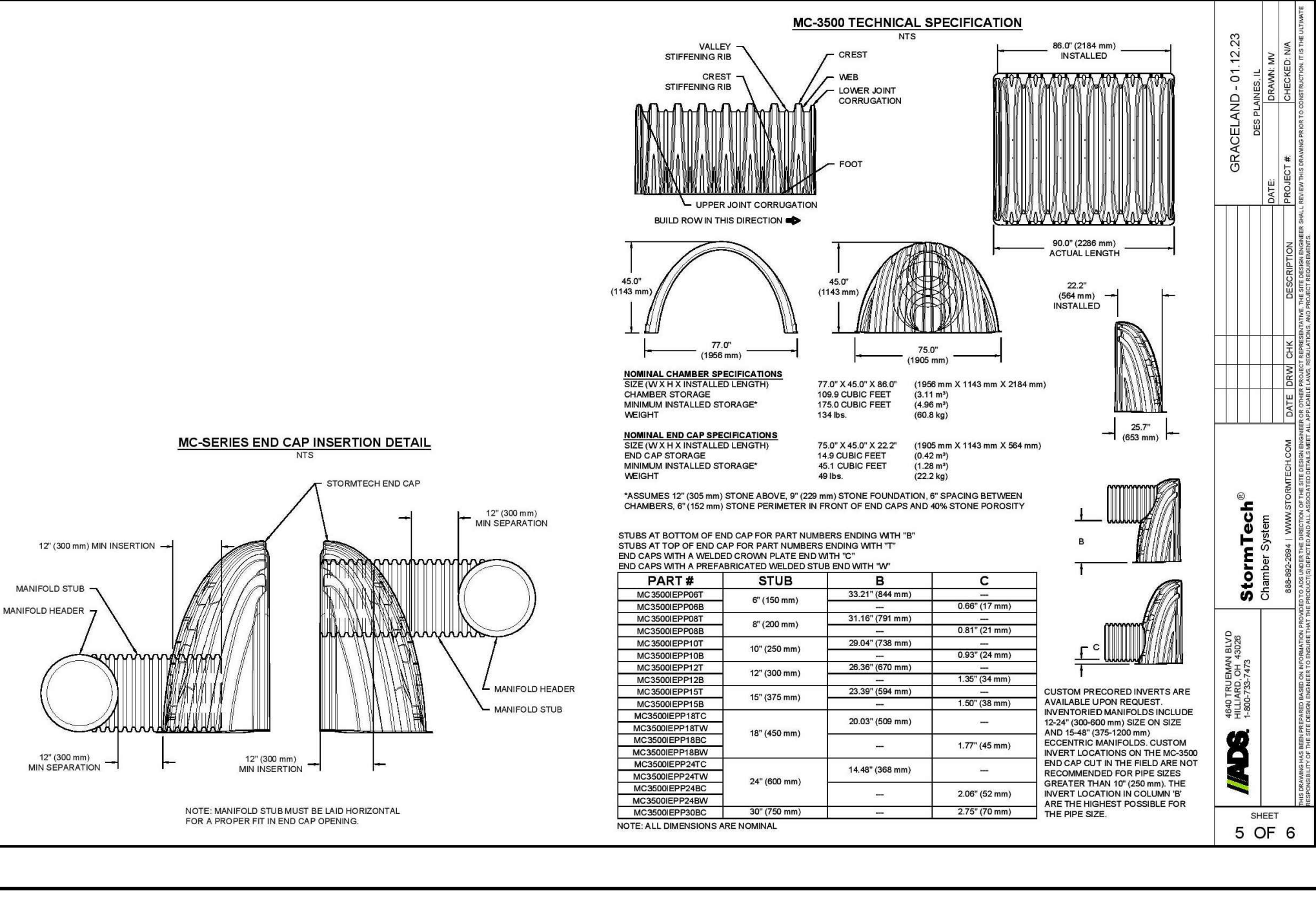
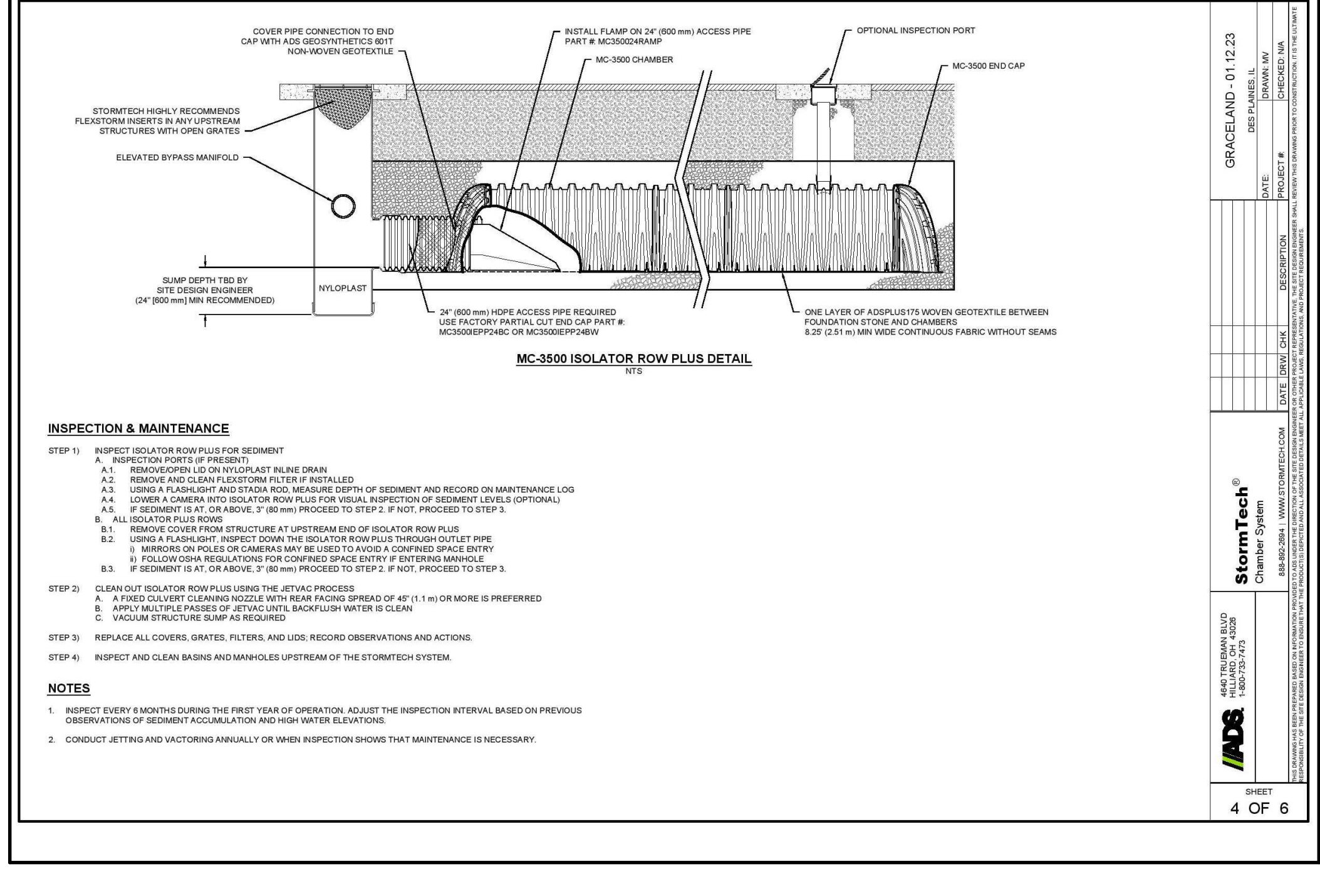
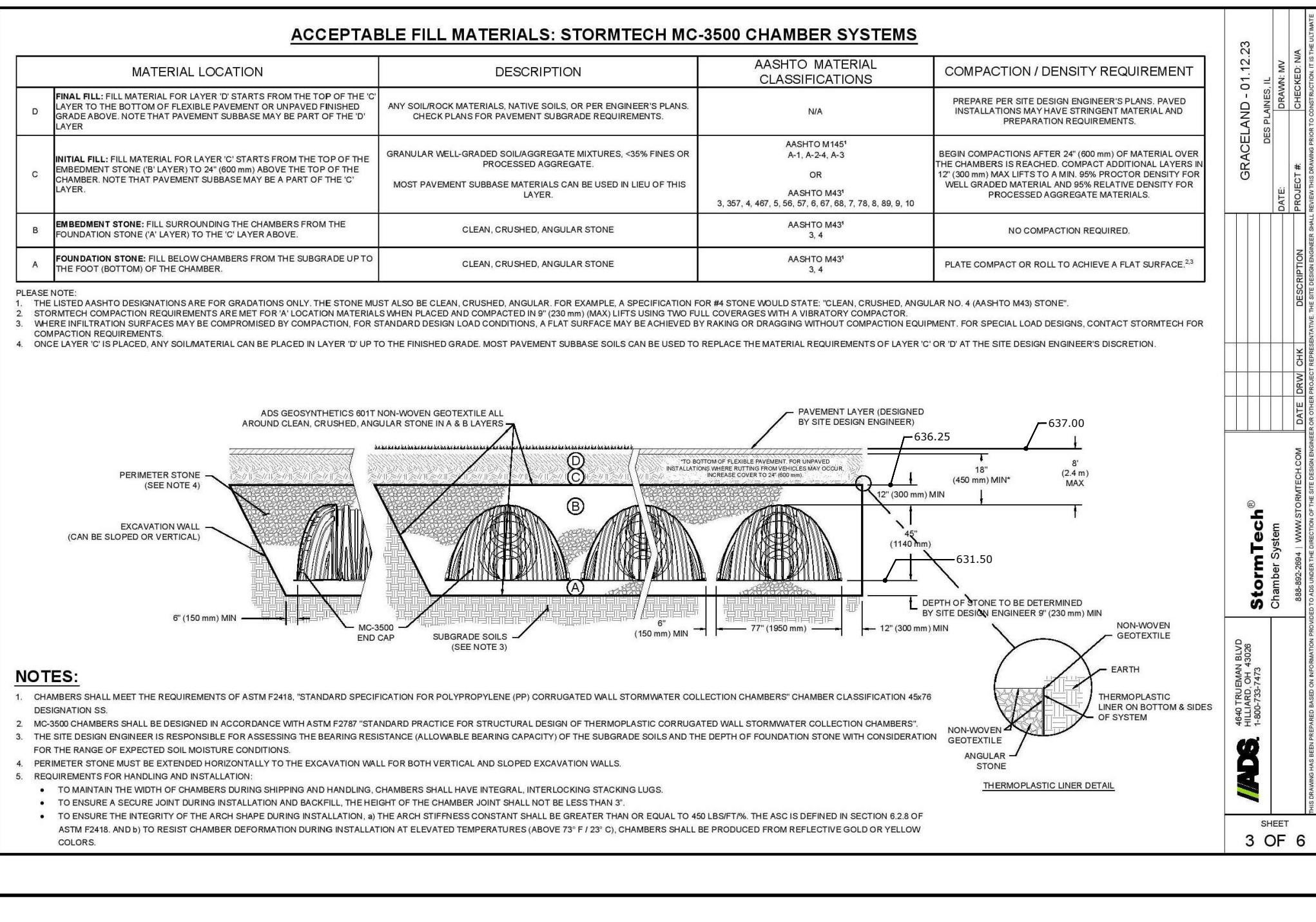
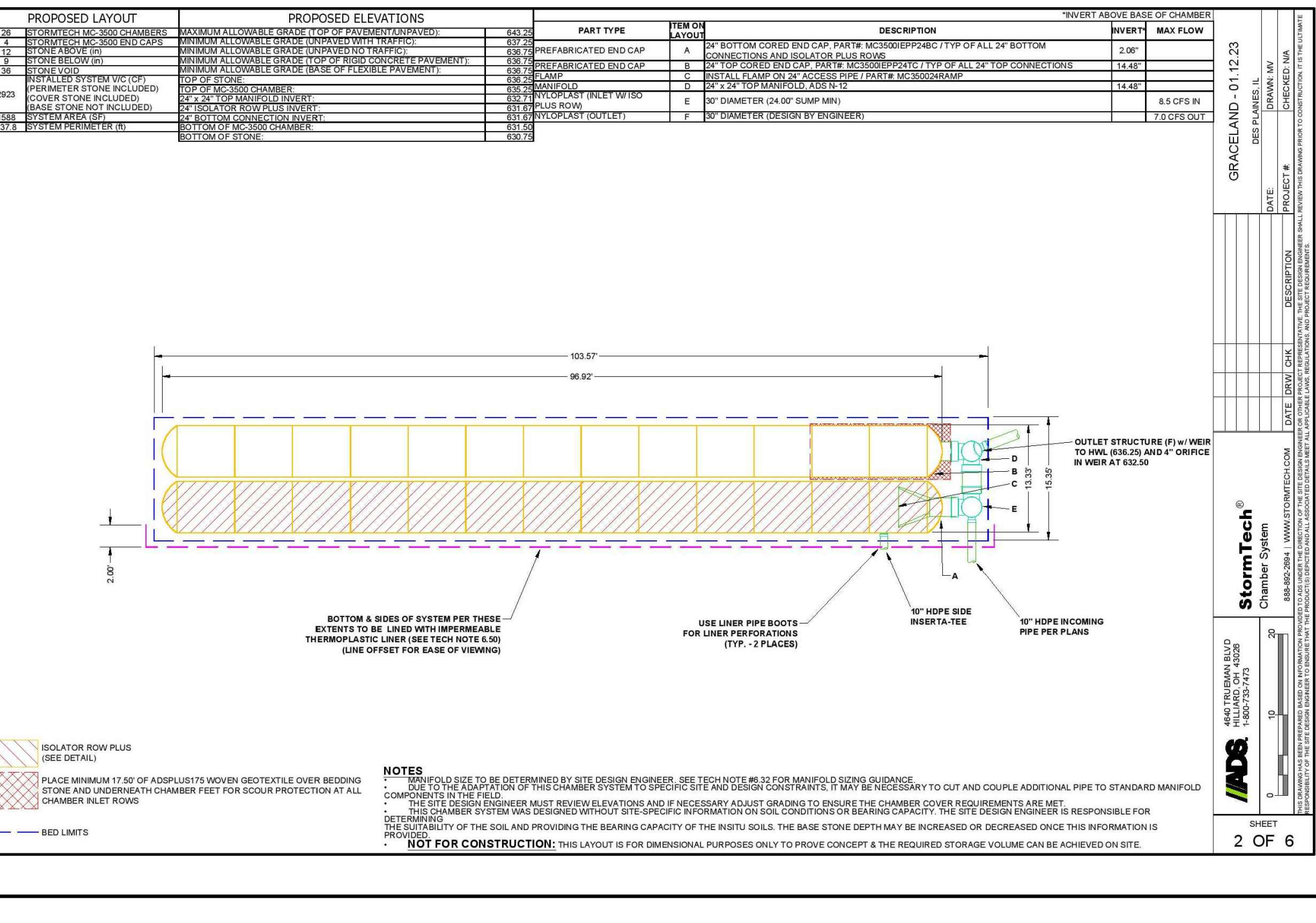
ENGINEERED PRODUCT: STORMTECH MC-3500 CHAMBER SYSTEM

DES PLAINES, IL

GRACELAND - 01.12.23

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM WOVEN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2118 'STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS' CHAMBER CLASSIFICATION 45/9.
- CHAMBERS SHALL BE DESIGNED TO WITHSTAND UNIFORM SURFACE LOADS OF 100 PSF (4.79 kPa) AND POINT LOADS OF 2000 LB (907.18 kg) WITHOUT PERMANENT DEFORMATION.
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DES PLAINES, ILLINOIS
CONSTRUCTION DETAILS AND STANDARDS

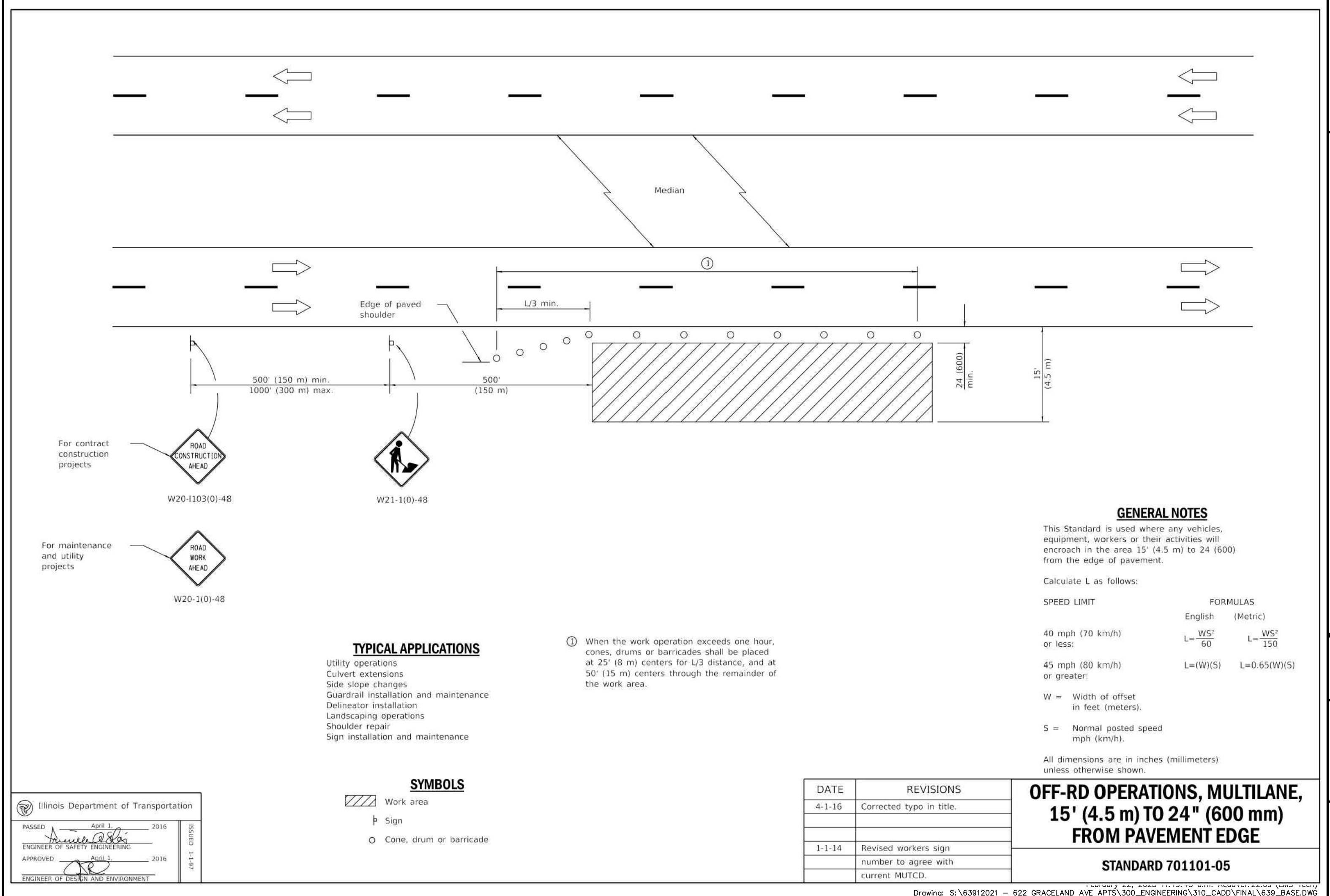
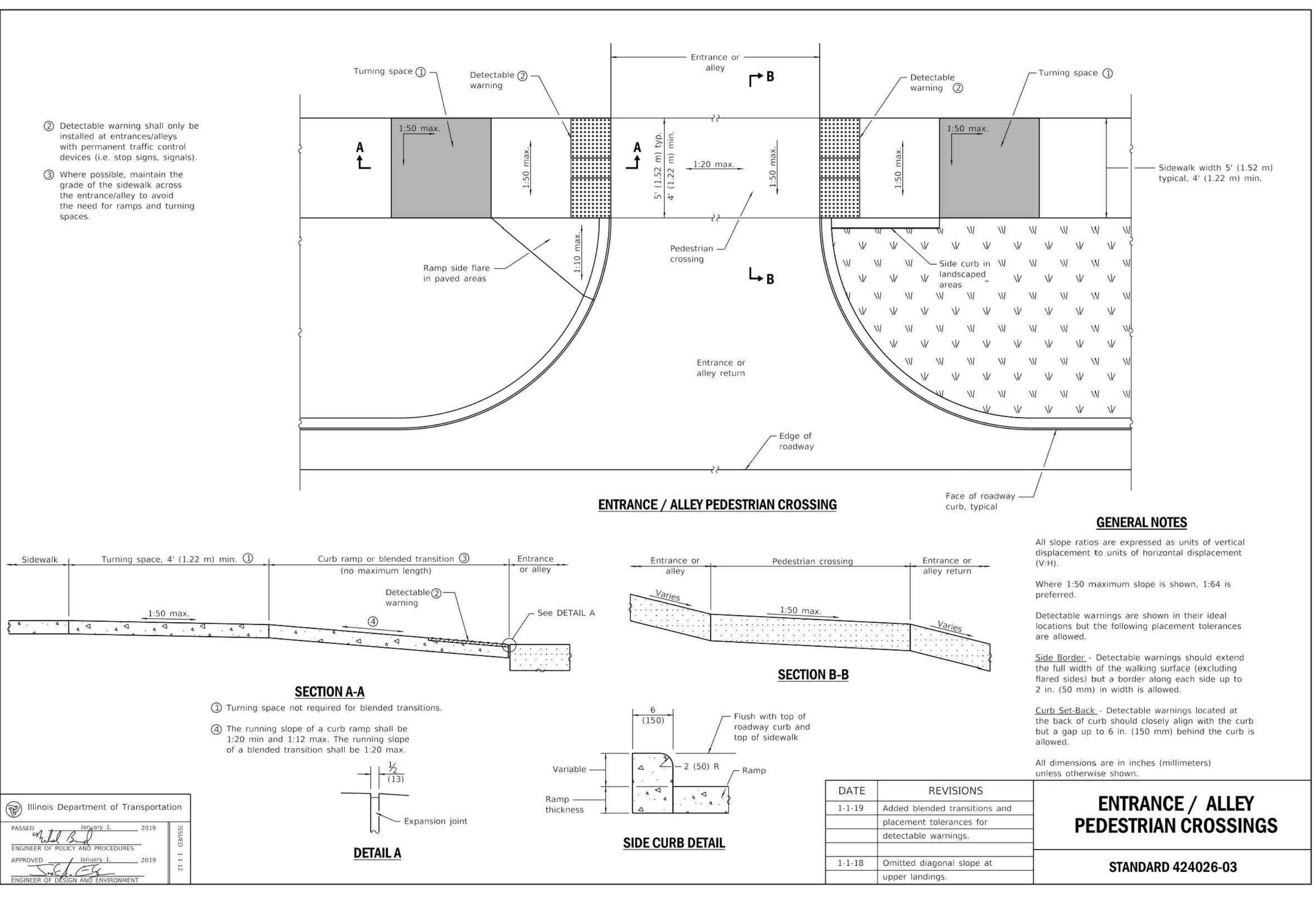
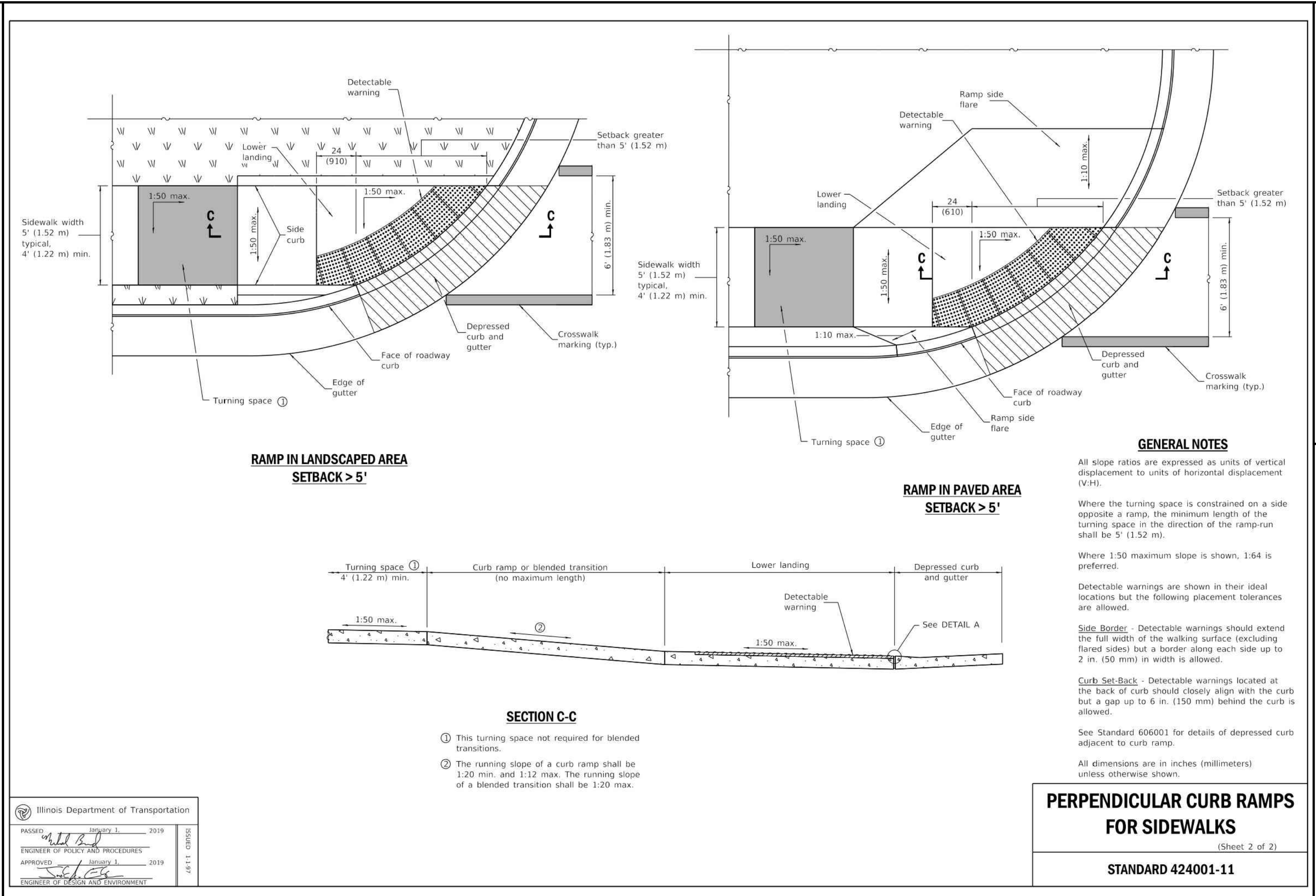
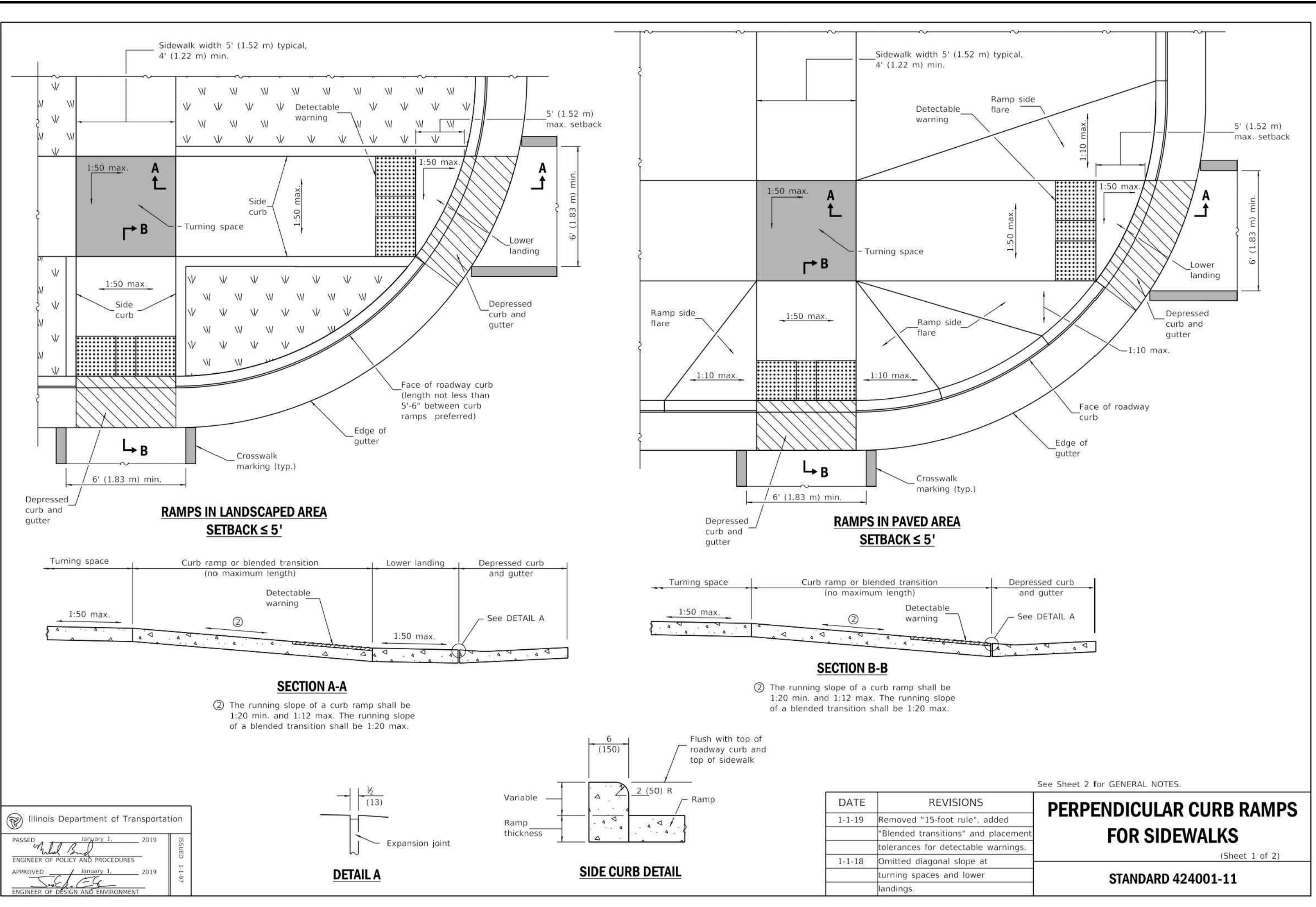
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PROJECT NO. 63912021
DATE 12/09/22
SCALE NONE
PROJ. MGR. MRM
PROJ. ASSOC. MKR
DRAWN BY TLM

SHEET 17 OF 20

February 22, 2023 11:18:47 a.m. AcadWp:22.0a (LMS Tech)
Drawing: S:\63912021 - 622 GRACELAND AVE APTS\300_ENGINEERING\310_CADD\FINAL\639_BASE.DWG



622 GRACELAND AVE. APARTMENTS
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IDOT CONSTRUCTION STANDARDS AND DETAILS

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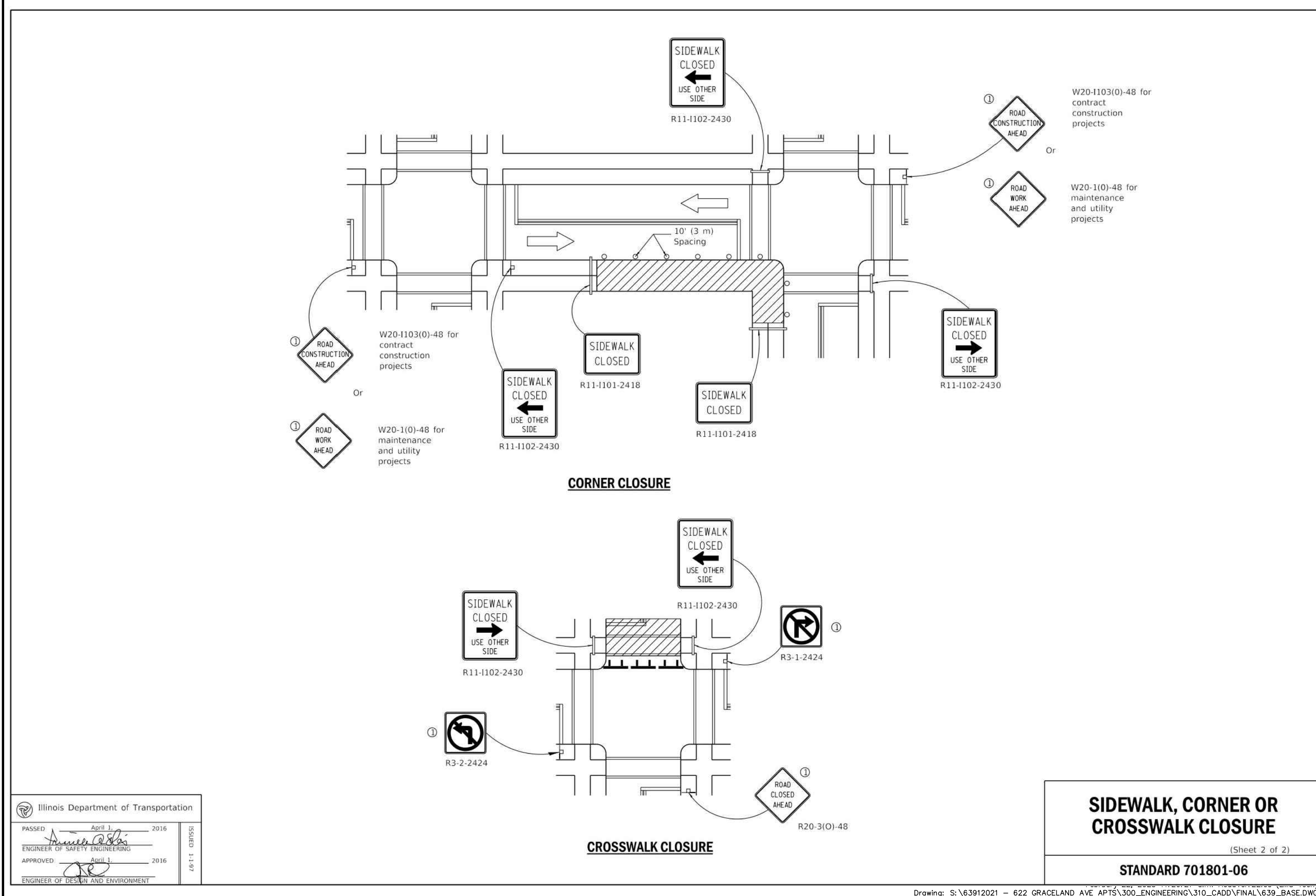
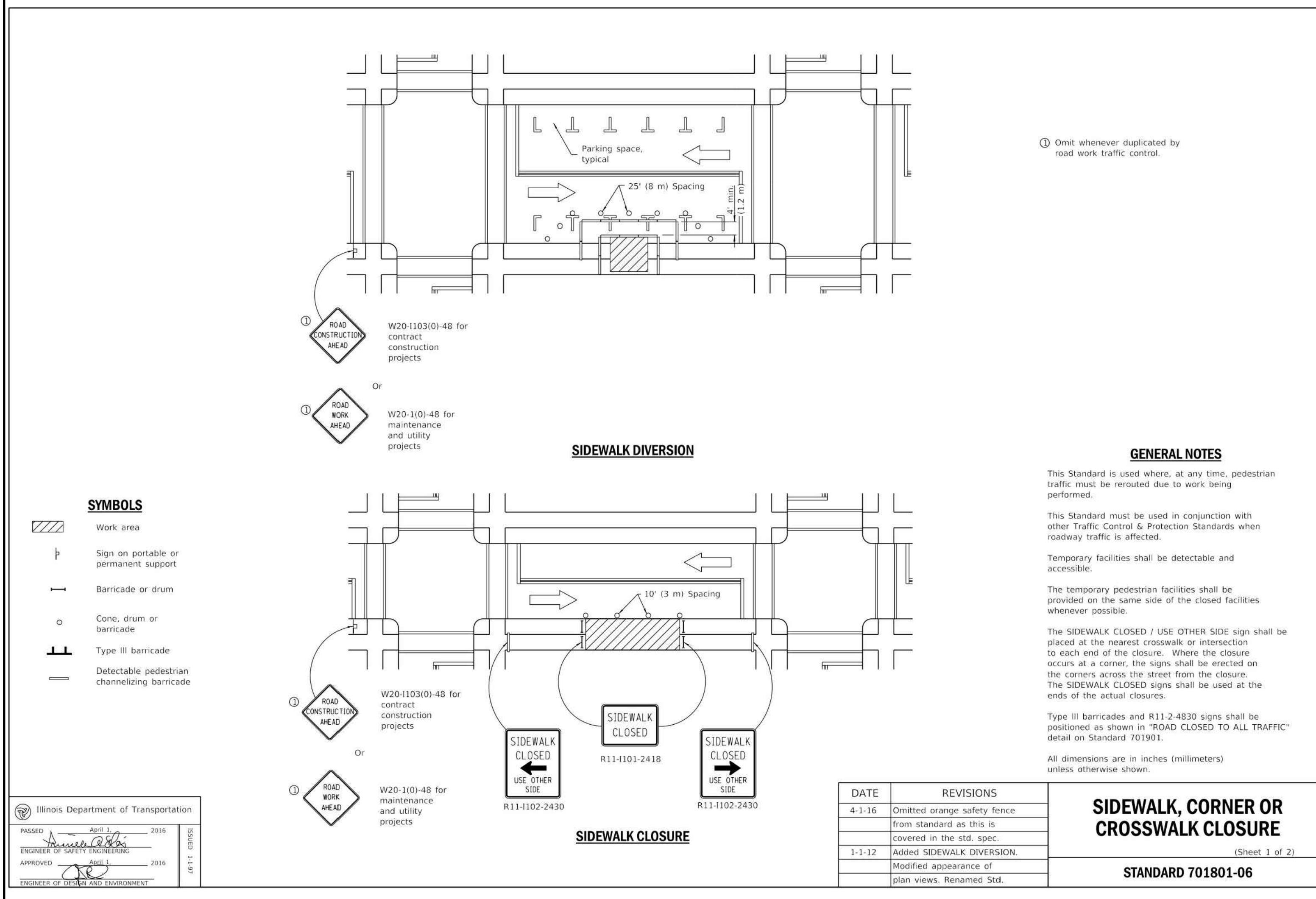
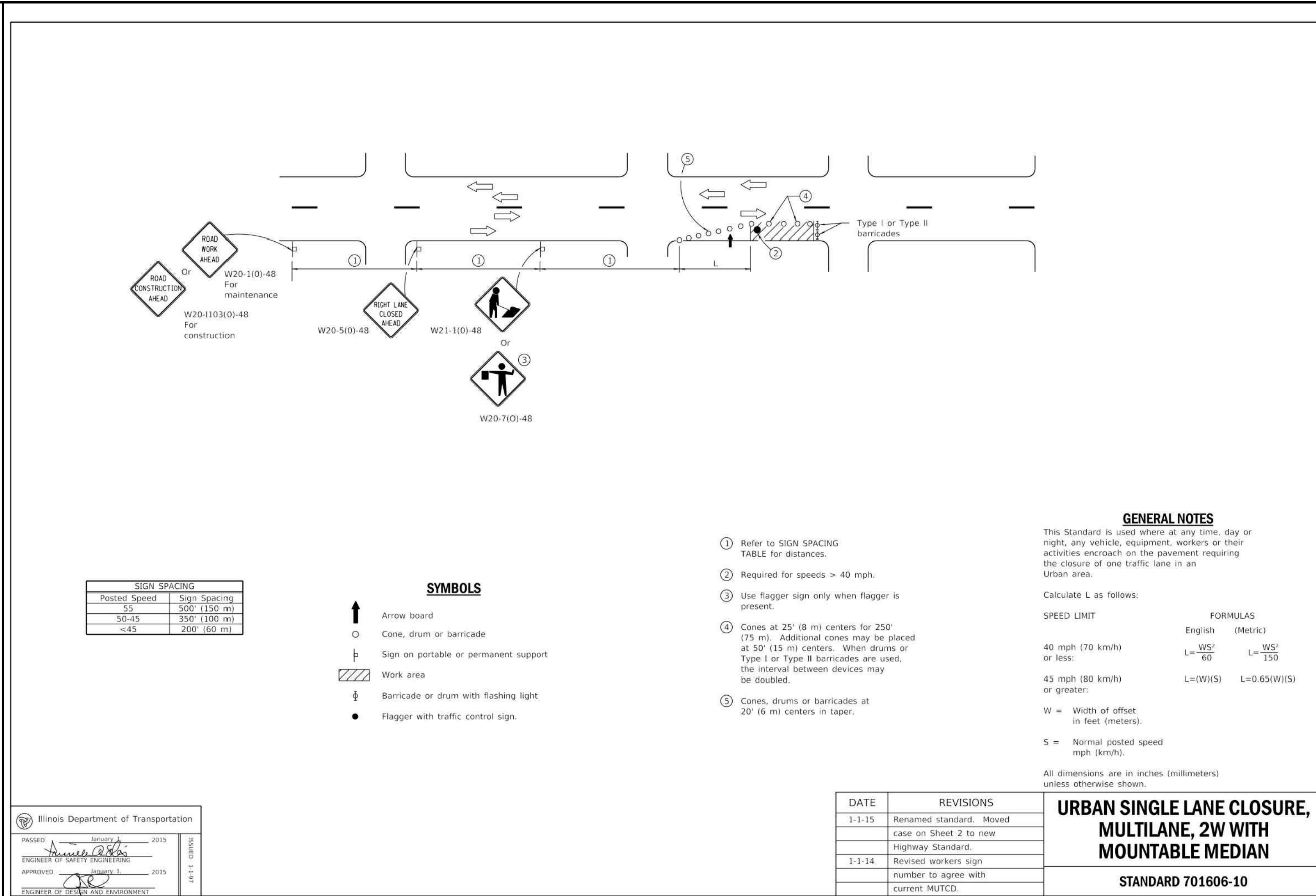
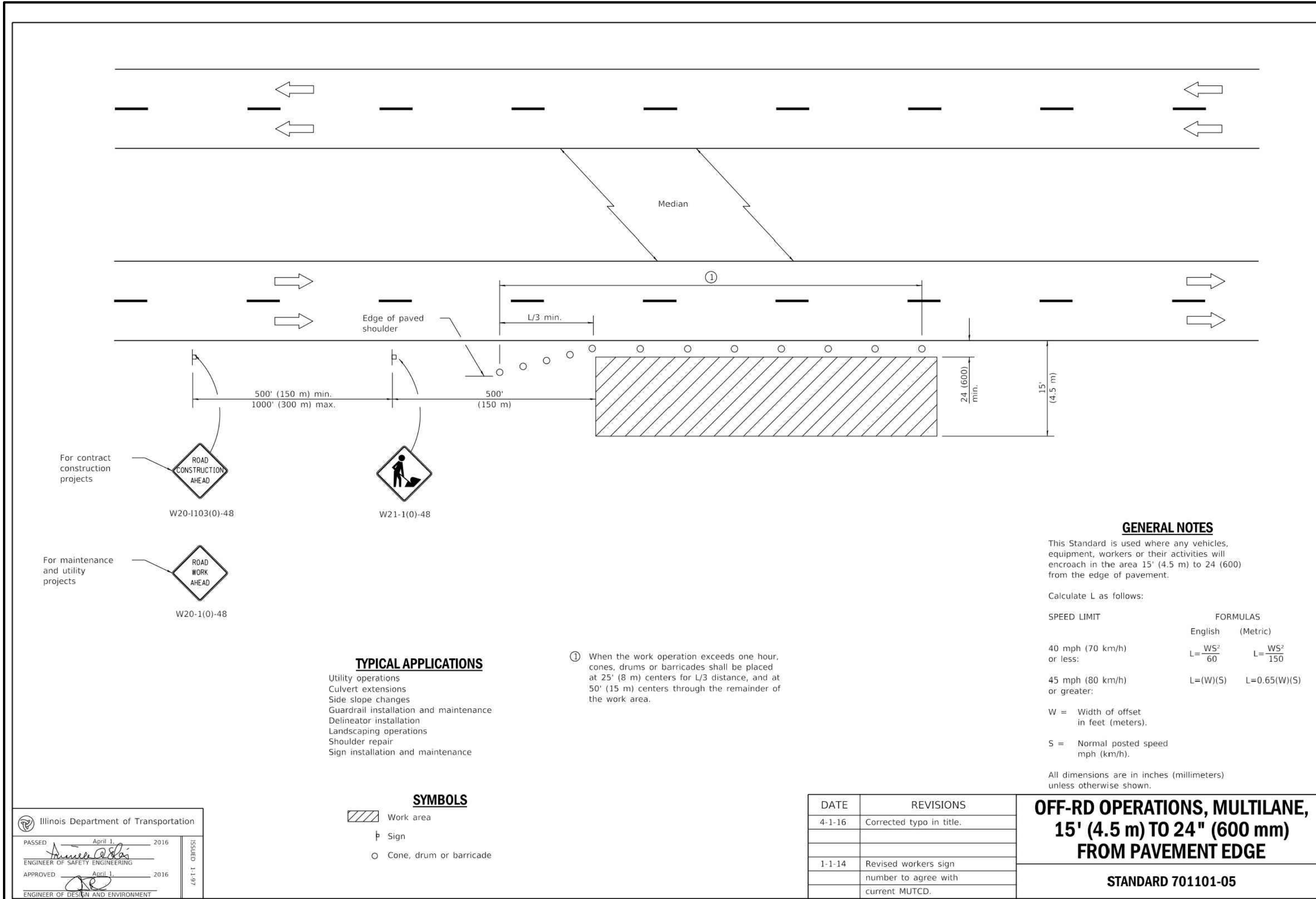
PROJECT NO.: 63912021
DATE: 12/09/22
SCALE: NONE
PROJ. MGR.: MRM
PROJ. ASSOC.: MKR
DRAWN BY: TLM

SHEET 18 OF 20

DATE: 01/17/23
REVISIONS:
1. CITY REVIEW # & ARCHITECT REVISIONS
2. ARCHITECT REVISIONS
3. PER CITY REVIEW

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TLM
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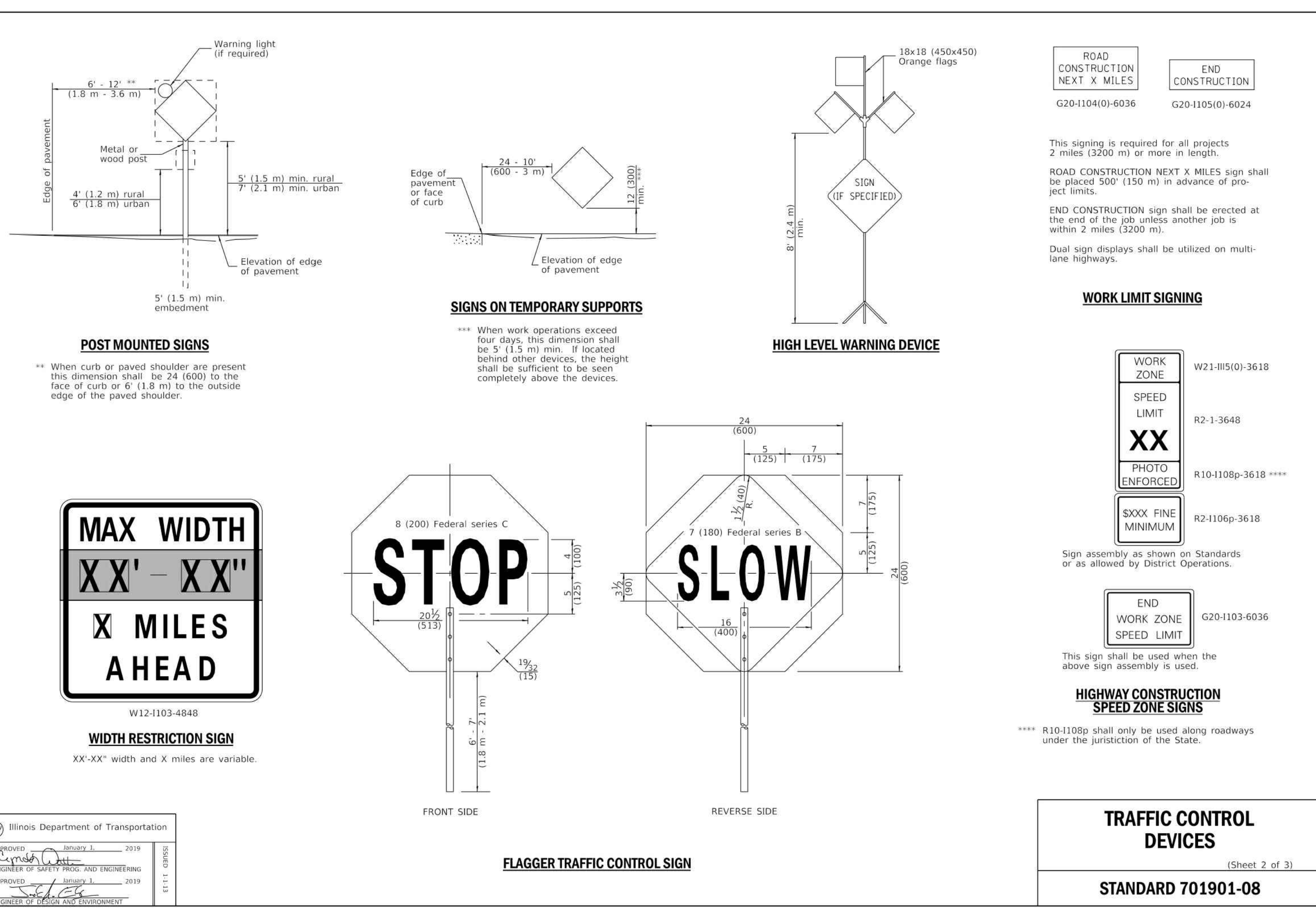
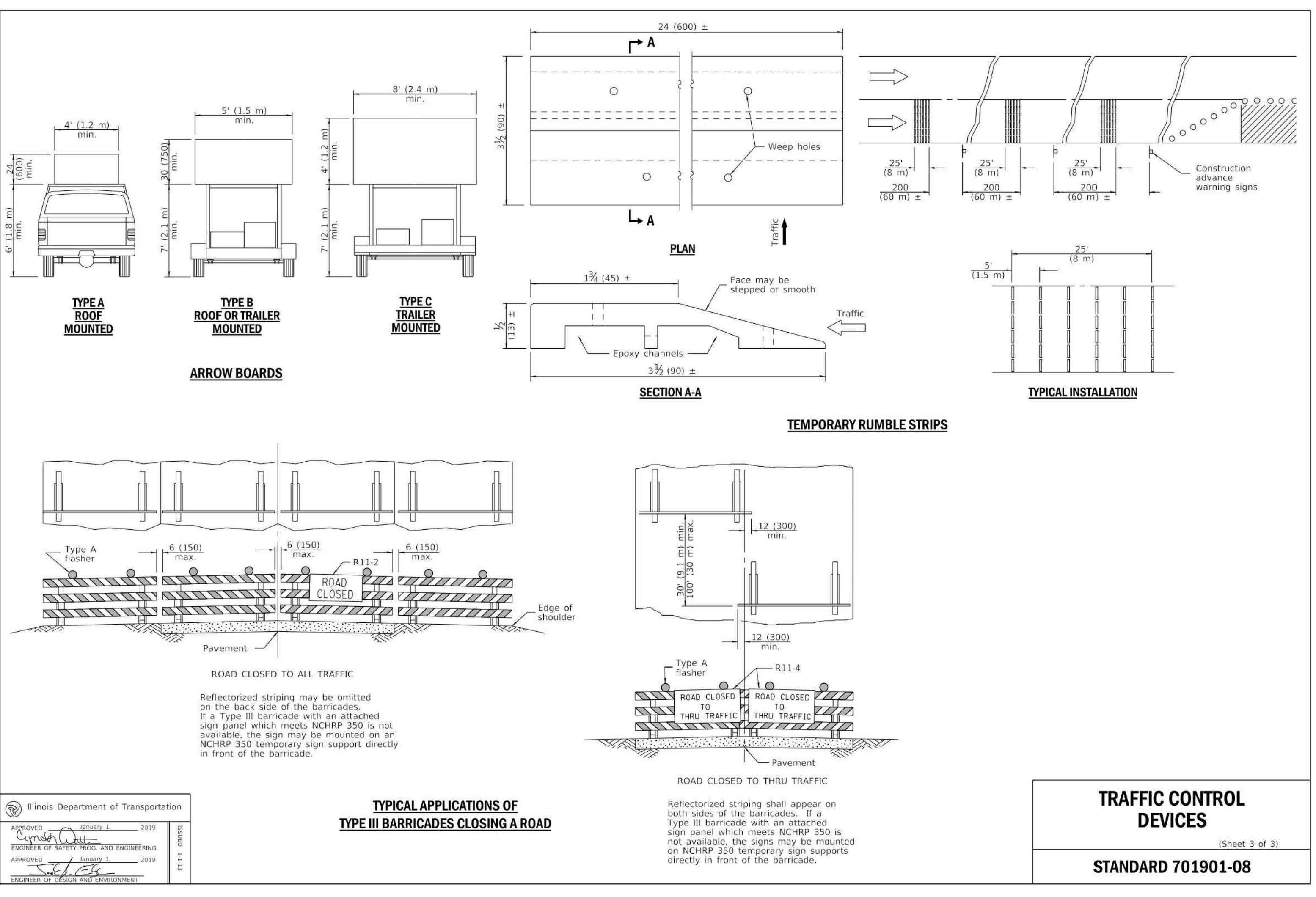
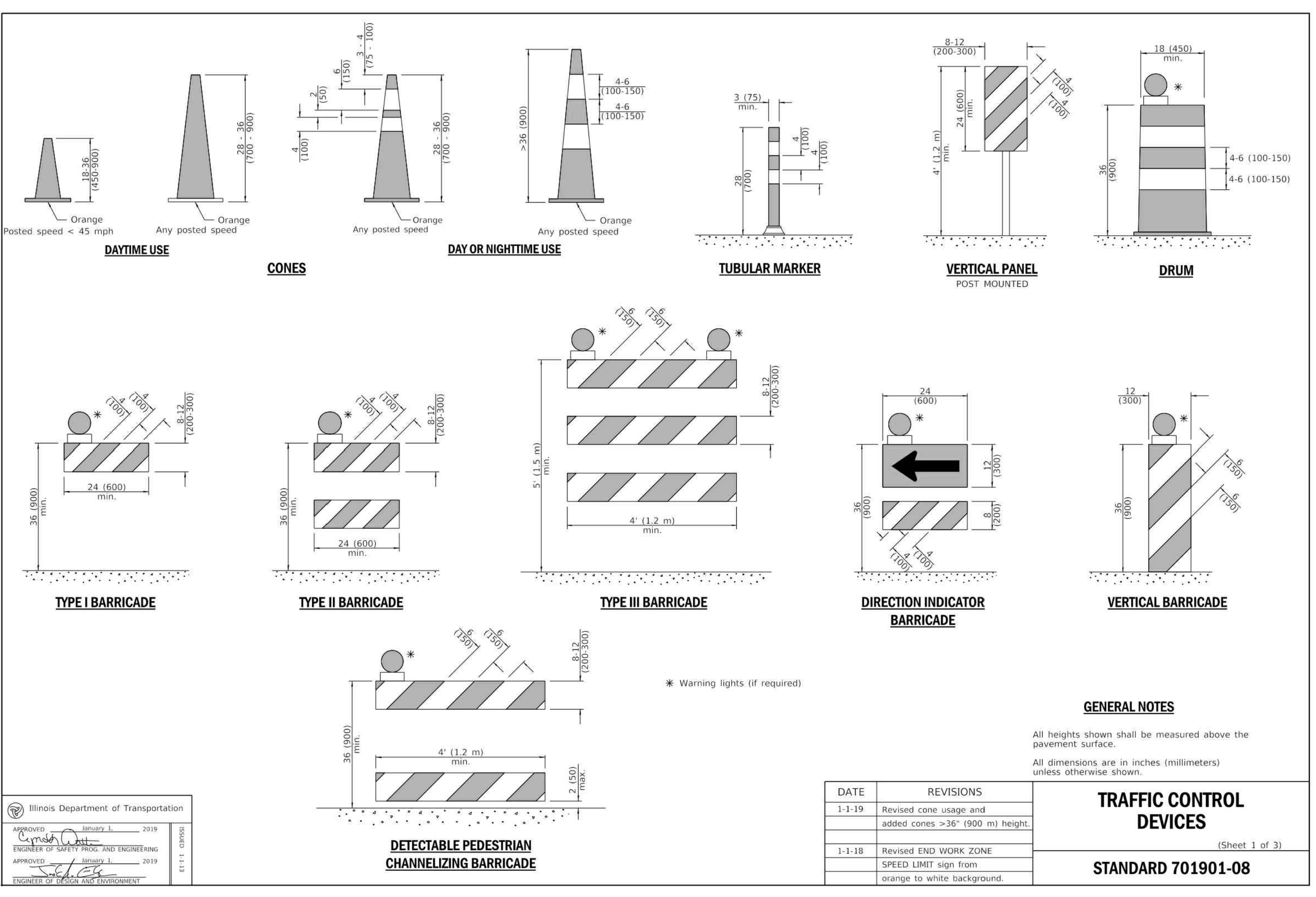
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Drawing: S:\63912021 - 622 GRACELAND AVE APT'S\300_ENGINEERING\310_CADD\FINAL\639_BASE.DWG



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ENGINEER OF DESIGN AND ENVIRONMENT

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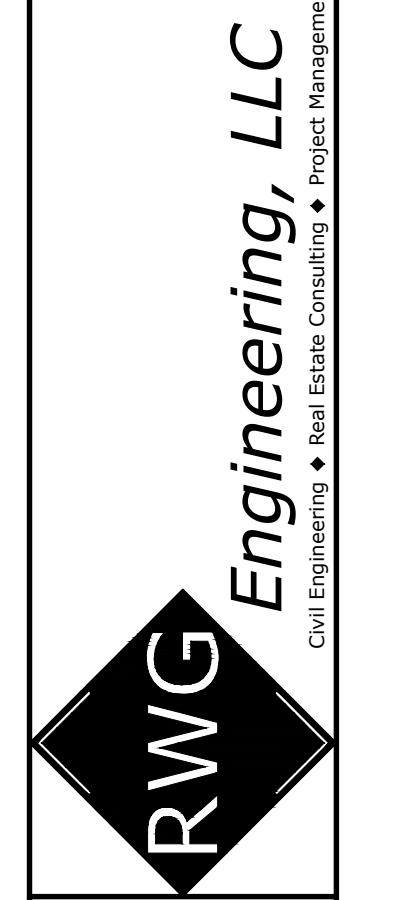
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APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

DRAWN BY: TLM
CHECKED BY: TLM
DATE: 02/27/23

REVISIONS	DATE	BY	REASON
1	01/17/23	TLM	ARCHITECT REVISIONS
2	02/17/23	TLM	ARCHITECT REVISIONS
3	02/27/23	TLM	PER CITY REVIEW

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