



YAMADA **AMERICA**

ARLINGTON HEIGHTS, ILLINOIS

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DESIGN DRAWINGS:

NOT FOR CONSTRUCTION This plan is not to be used for construction. Plan layouts are for concept design only, and are subject to change based on detailed local code analysis and thorough evaluation of specific existing building conditions. Employee counts, furniture inventories and product inventories are provided as preliminary guideline estimates only. Detailed design documents will be required by licensed design professionals of record, as project moves forward.



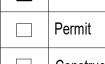


project number 180<u>8/216</u>063

Revision/update date

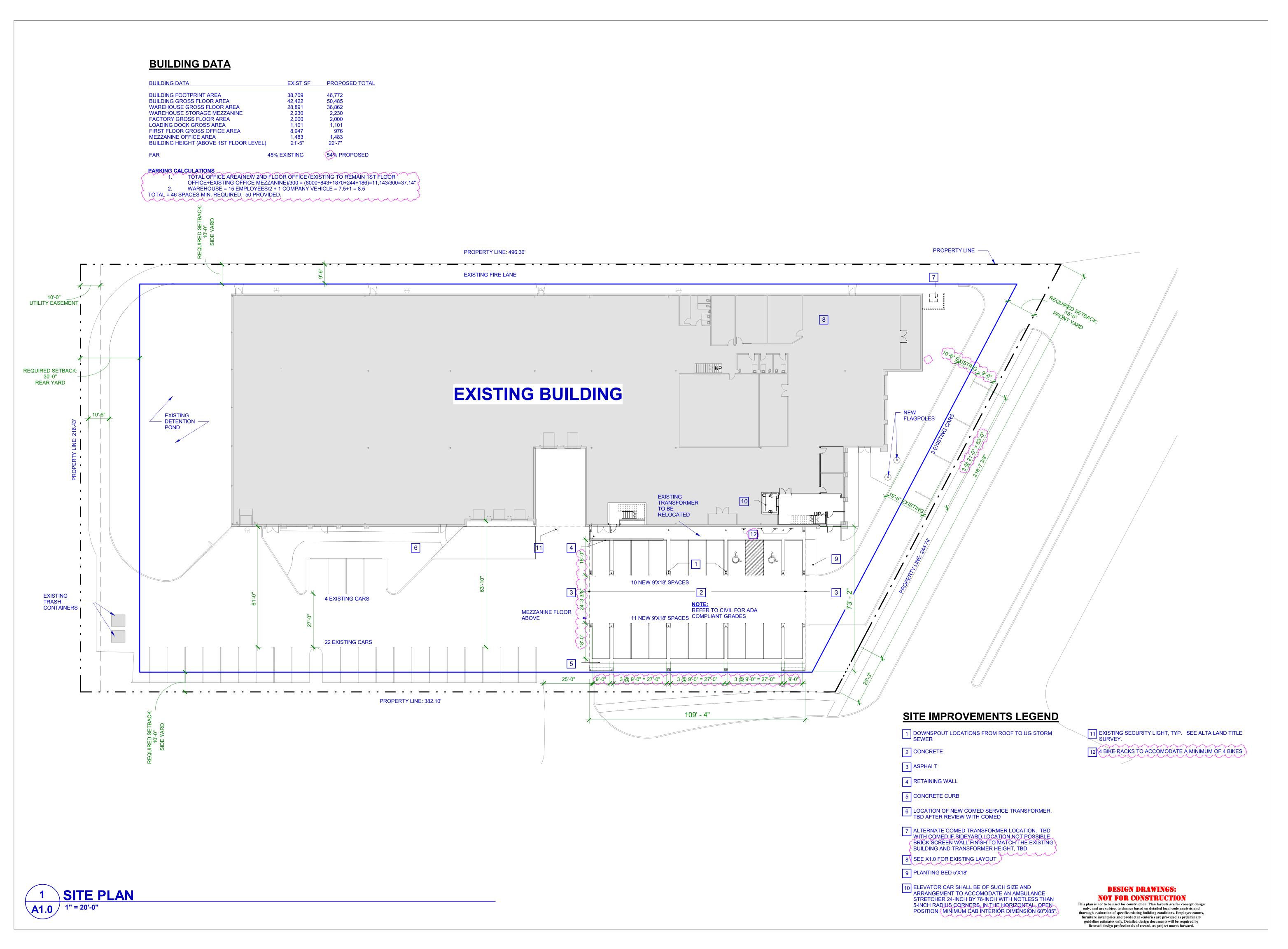
VAH Review 1-11-2019 Des.Dev. 12-7-2018 Drawing type





Construction

Sheet title COVER SHEET







180<u>8/216</u>063

Revision/update date

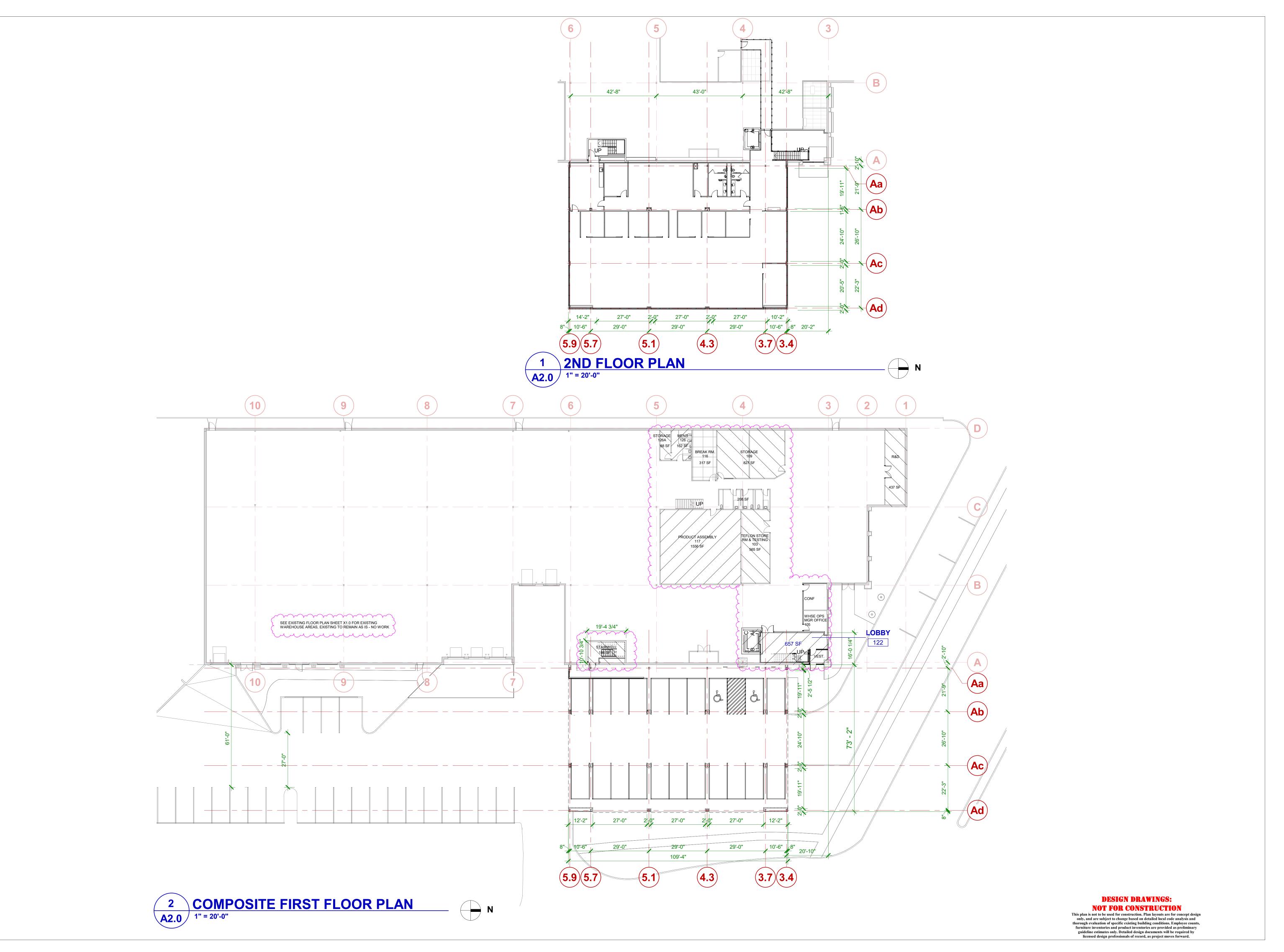
Round 1 VAH Comments 2-11-2019 VAH Review 1-11-2019 Des.Dev. 12-7-2018 Drawing type





Construction

Sheet titl





Office Addition & Remodel

Amada America
955 E Algonquin Rd.
Arlington Heights. IL 60005



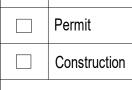
project number 180<u>8/216</u>063

Project Description
Office addition & conversion of portion of existing office to warehouse use.

Date 01/11/19
Revision/update date

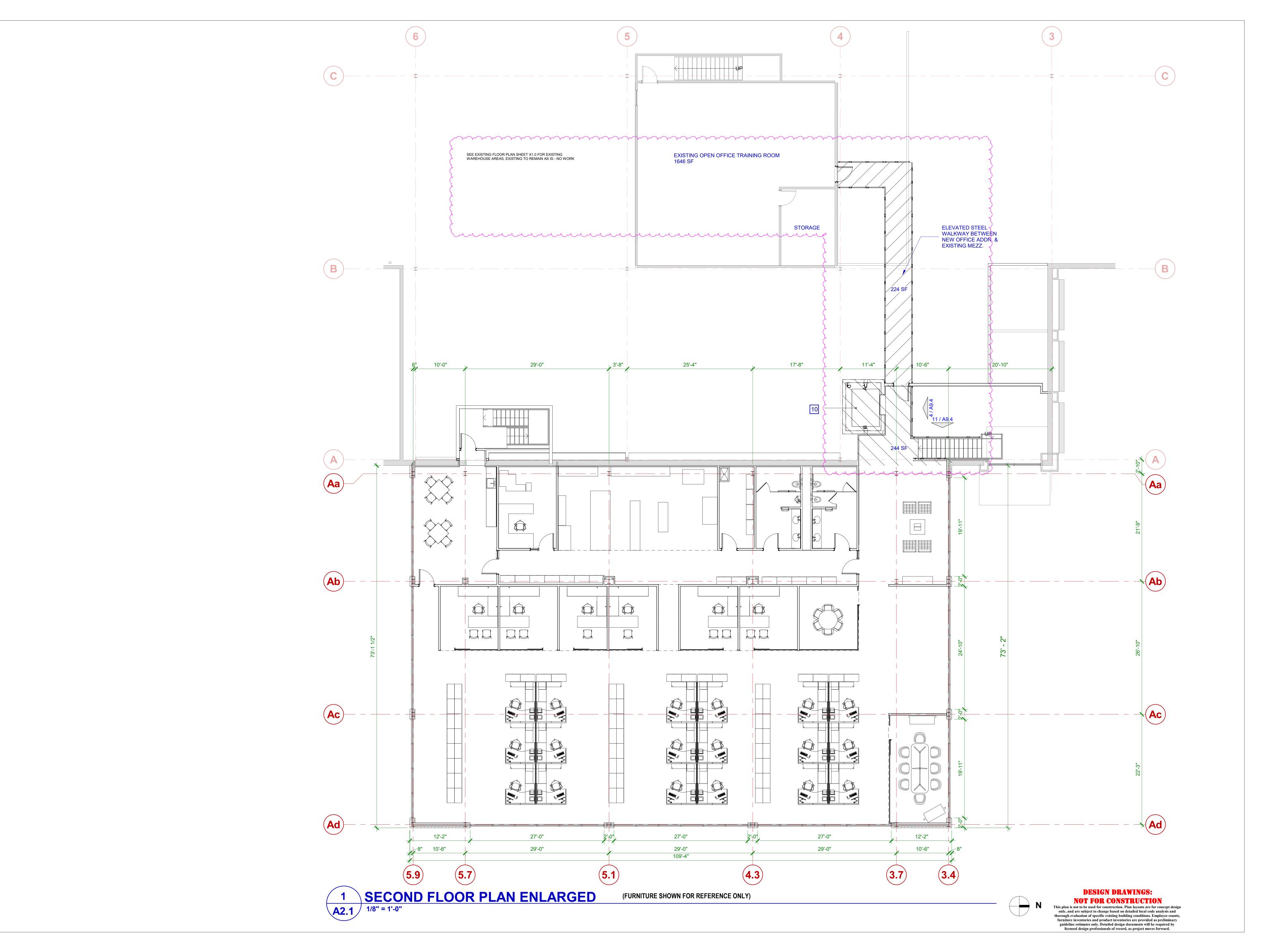
Round 1 VAH
Comments 2-11-2019
VAH Review 1-11-2019
Des.Dev. 12-7-2018
Drawing type





Sheet title
COMPOSITE
FIRST FLOOR
PLAN

Sheet A2.0







Revision/update date

Round 1 VAH Comments 2-11-2019 VAH Review 1-11-2019 Des.Dev. 12-7-2018 Drawing type



Construction Sheet title
MEZZ PLAN WITH
FURNITURE





Office Addition & Remodel

armada Americ

955 E Algonquin Rd.

Arlington Heights, IL 60005

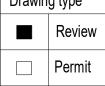


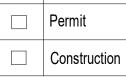
Project Description

Office addition & conversion of portion of portion existing office to warehouse use.

A part of the conversion of portion of portion

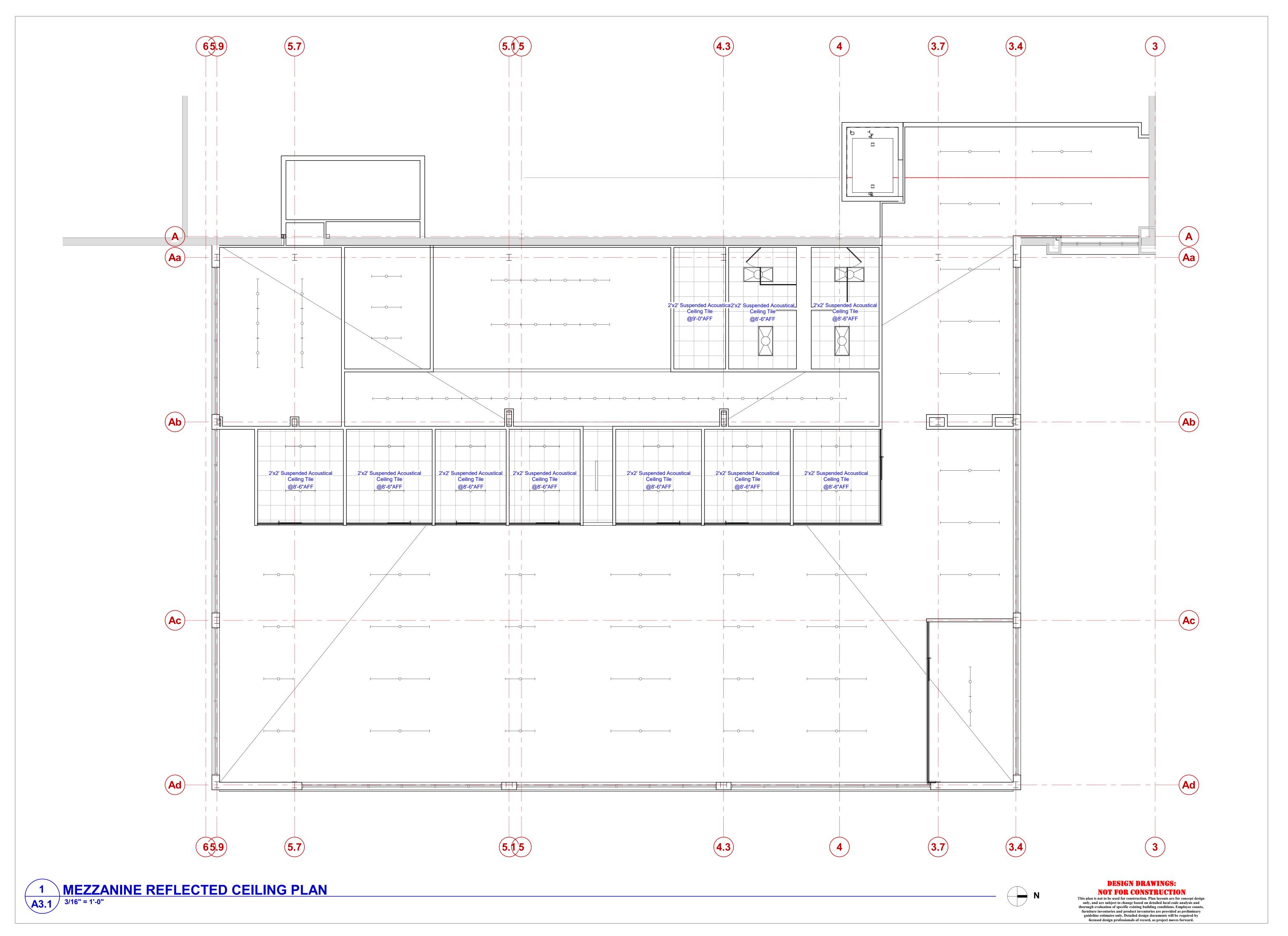
VAH Review 1-11-2019 Des.Dev. 12-7-2018 Drawing type





FIRST FLOOR -REFLECTED CEILING PLAN

Sheet **A3.0**





Office Addition & Remodel

Amada Americ

955 E Algonquin Rd.

Arlington Heights, IL 60005

HEITMAN
ARCHITECTS
INCORPORATED

SSS PIERCE ROAD, SUITE 130

117ASCA, ILLINOIS 60143, USA
TEL. 630.773.3551
FAX. 630.773.3559

project number 30<u>8/216</u>063

Project Description
Office addition & conversion of portior existing office to warehouse use.

Revision/update date

VAH Review 1-11-2019
Des.Dev. 12-7-2018

Drawing type

Review

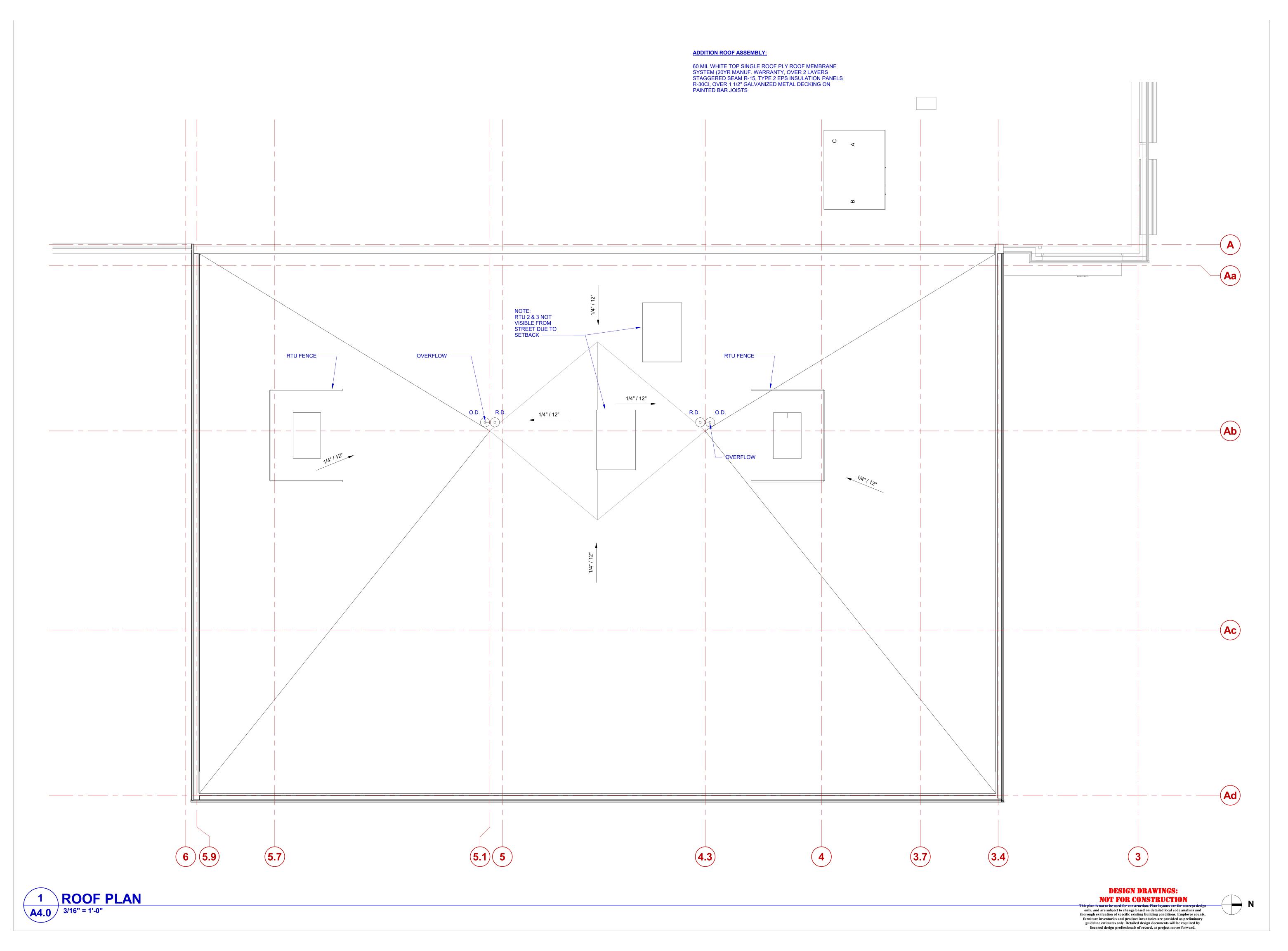
Permit

Construction

IEZZANINE -EFLECTED EILING PLAN

Sheet **A3.1**

of sheet





Office Addition & Remodel

armada Armerice
955 E Algonquin Rd.
Arlington Heights II 60005

HEITMAN
ARCHITECTS
INCORPORATED

555 PIERCE ROAD, SUITE 130

1TASCA, ILLINOIS 60143, USA
TEL. 630.773.3551
FAX. 630.773.3599

project number 180<u>8/216</u>063

Project Description

Office addition & conversion of portion
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Revision/update date

VAH Review 1-11-2019 Des.Dev. 12-7-2018

Drawing type

Review

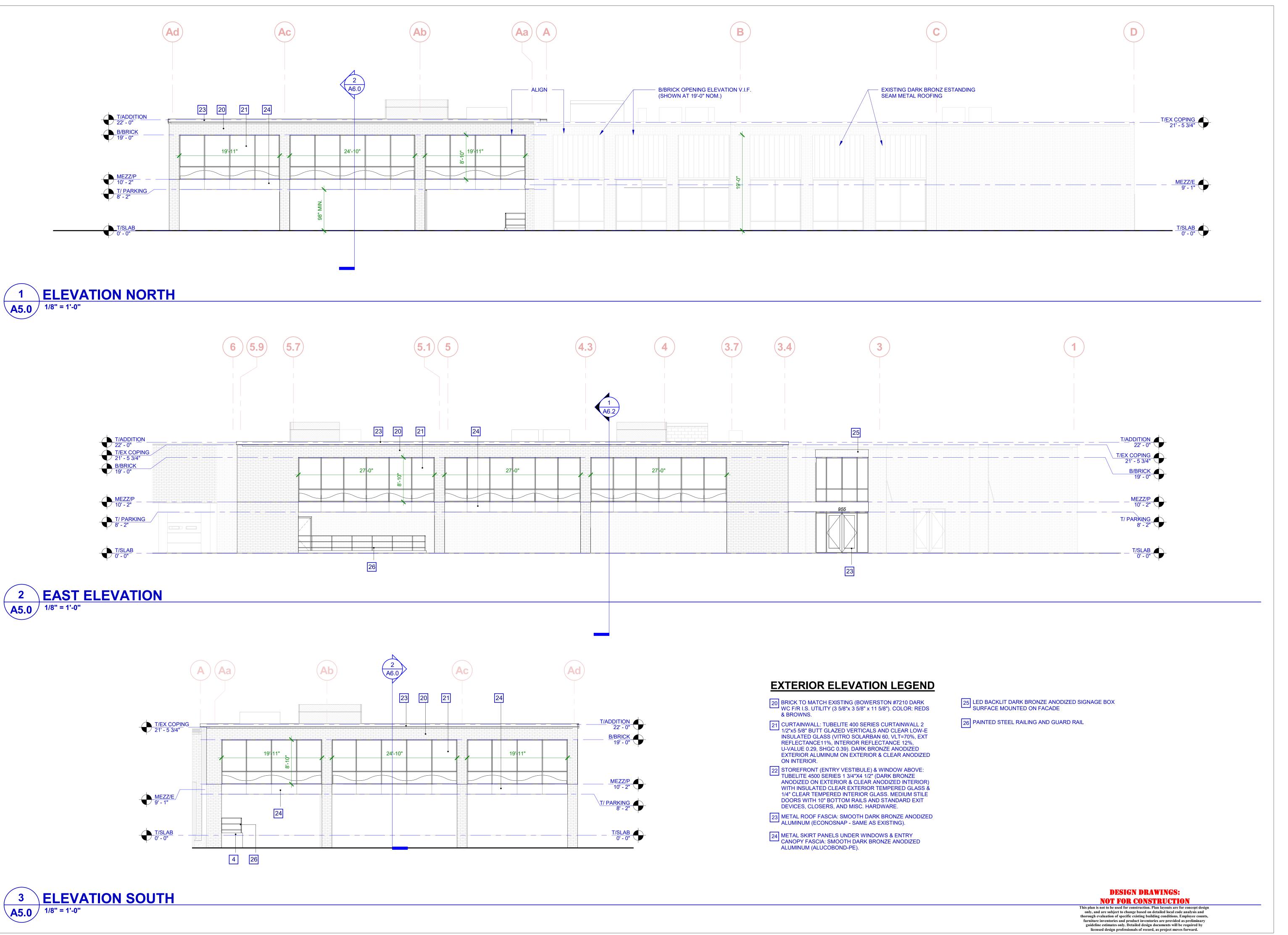
PermitConstruction

Sneet title
ROOF PLAN

Sheet

A4.0

of _ sheets



Architect & General Contractor

SHERMAN

CONSTRUCTION LLC

62 Surrey Lane East
Barrington Hills, IL 60010
847.858.6083 phone
ShermanConstruction@gmail.com

Office Addition & Remodel

Arrington Heights II 60005

HEITMAN
ARCHITECTS
INCORPORATED

555 PIERCE ROAD, SUITE 130

1TASCA, ILLINOIS 60143, USA
TEL. 630.773.3551
FAX. 630.773.3559

project number 180<u>8/216</u>063

Project Description

Office addition & conversion of portion

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VAH Review 1-11-2019 Des.Dev. 12-7-2018

Revision/update date

Review

Permit

Drawing type

Construction

Sheet title
EXTERIOR
ELEVATIONS

A5.0

of sheets



3D VIEW - NORTH EAST CORNER - AERIAL





3D VIEW - SOUTH EAST CORNER - DOCKS

DESIGN DRAWINGS:

NOT FOR CONSTRUCTION

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Office Addition & Remodel

Yamada Americ

955 E Algonquin Rd.

Arlington Heights, IL 60005

HEITMAN
ARCHITECTS
INCORPORATED

S55 PIERCE ROAD, SUITE 130
117ASCA, ILLINOIS 60143, USA
TEL. 630.773.3551
FAX. 630.773.3599

project number 180<u>8/216</u>063

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Office addition & conversion of portic existing office to warehouse use.

Revision/update date

VAH Review 1-11-2019 Des.Dev. 12-7-2018 Drawing type

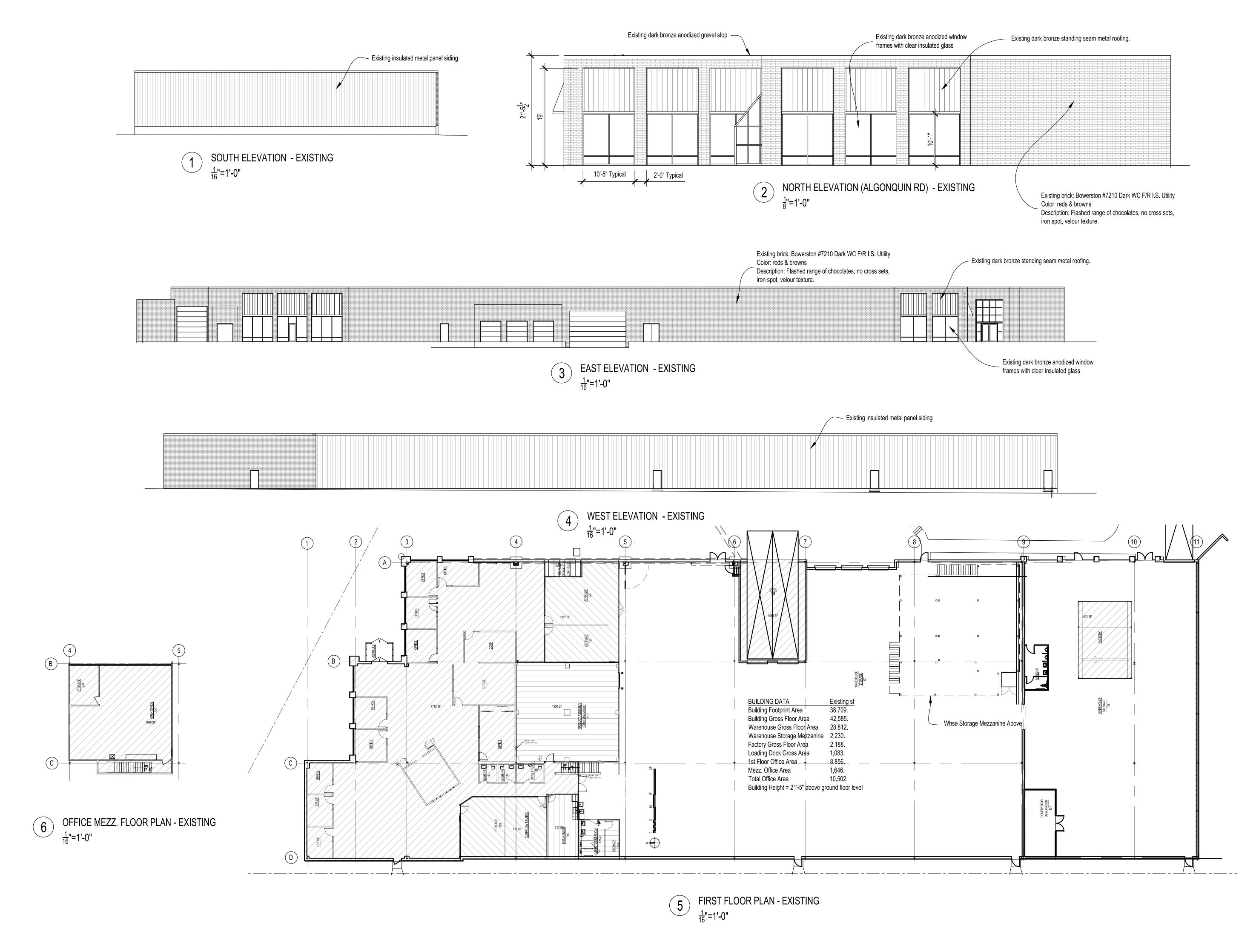
Review

Permit

Construction

Sheet title
3D
PERSPECTIVES

Sheet **A14.1**



Architect & General Contractor

SHERMAN
CONSTRUCTION LLC

62 Surrey Lane East Barrington Hills, IL 60010 847.858.6083 phone ShermanConstruction@gmail.com

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Office Addition & Remodel

Yamada Americ
955 E Algonquin Rd.
Arlington Heights, IL 60005

project number 1808

ject Description ce addition & conversion of portion of sting office to warehouse use.

Date 6-15-2018

Revision/update date

Trevision/apacie da

Rev 2-11-2019

1-11-2019 DC Review

Drawing type

Review

□ Permit
□ Construction

Sheet title
EXISTING FLOOR PLAN & EXTERIOR
ELEVATIONS

Sheet X1.0

1 of 1 sheets

YAMADA AMERICA BUILDING EXPANSION

STANDARD SYMBOLS

955 EAST ALGONQUIN ROAD VILLAGE OF ARLINGTON HEIGHTS, ILLINOIS

EXISTING STORM SEWER __ __ __ SANITARY SEWER COMBINED SEWER FORCEMAIN DRAINTILE WATER MAIN ELECTRIC TELEPHONE OVERHEAD WIRES SANITARY MANHOLE STORM MANHOLE CATCH BASIN STORM INLET CLEANOUT HAY BALES RIP RAP VALVE IN VAULT VALVE IN BOX FIRE HYDRANT **BUFFALO BOX** FLARED END SECTION STREET LIGHT SUMMIT / LOW POINT 795.20 790.25 RIM ELEVATION INVERT ELEVATION DITCH OR SWALE DIRECTION OF FLOW OVERFLOW RELIEF SWALI 1 FOOT CONTOURS CURB AND GUTTER DEPRESSED CURB AND GUTTER SIDEWALK DETECTABLE WARNINGS PROPERTY LINE EASEMENT LINE SETBACK LINE MAIL BOX TRAFFIC SIGNAL POWER POLE GUY WIRE GAS VALVE

Catalpa Ln Magnola Ln Pheasant Trl North Ln S Brownstone Ave Clearbrook Dr **PROJECT** LOCATION

LOCATION MAP

CLIENT: SHERMAN CONSTRUCTION LLC 62 E. SURREY LANE BARRINGTON HILLS, IL 60010 (847) 858-6083

<u>ABBREVIATIONS</u>

HANDHOLE

ELECTRICAL EQUIPMENT

TELEPHONE EQUIPMENT

CHAIN-LINK FENCE

SPOT ELEVATION

BRUSH/TREE LINE

DECIDUOUS TREE WITH TRUNK DIA. IN INCHES (TBR)

CONIFEROUS TREE WITH HEIGHT IN FEET (TBR)

SILT FENCE

RETAINING WALL

WETLAND

792.8 G

 $\sim\sim\sim\sim\sim$

ADJ AGG.	ADJUST AGGREGATE	F/L FM	FLOW LINE FORCE MAIN	R.O.W. RCP	RIGHT-OF-WAY REINFORCED CONCRETE PIPE
ARCH B.A.M. B − C B − M B − C B − M B − B	ARCHITECT BITUMINOUS AGGREGATE MIXTURE BACK TO BACK BACK OF CURB BOTTOM OF PIPE BACK OF WALK BUFFALO BOX BITUMINOUS BENCHMARK BY OTHERS COMMERCIAL ENTRANCE CATCH BASIN CENTERLINE CORRUGATED METAL PIPE CONTROL CLEANOUT CONCRETE CUBIC YARD DITCH DIAMETER DUCTILE IRON PIPE DUCTILE IRON WATER MAIN DOWNSPOUT DRAIN TILE ELECTRIC EDGE TO EDGE ELEVATION EDGE OF PAVEMENT EXISTING FIELD ENTRANCE FACE TO FACE FINISHED ELOOR	G G/F GMUL HHWL HYDL V. FAMM/HM.WLE. PCGL PPRT CCPPI PPRT CPVI PPRT CPVI PPR	GROUND GRADE AT FOUNDATION GUY WIRE HEADWALL HANDHOLE HIGH WATER LEVEL HYDRANT INLET INVERT IRON PIPE LEFT MAXIMUM MAILBOX MEET EXISTING MANHOLE MINIMUM NORMAL WATER LEVEL PRIVATE ENTRANCE POINT OF CURVATURE POINT OF COMPOUND CURVE PROFILE GRADE LINE POINT OF INTERSECTION PROPERTY LINE POWER POLE PROPOSED POINT OF VANGENCY POLYVINYL CHLORIDE PIPE POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY PAVEMENT	REM REV RR ST SSHLD. SSHLD. SSHLD. SST STA. SSW TT T/C T/P T/WALL TEMP TRANS V.D. WM WM	REMOVAL REVERSE RAILROAD RIGHT SANITARY SQUARE FOOT SHOULDER STREET LIGHT SANITARY MANHOLE STORM STATION STANDARD SIDEWALK SQUARE YARDS TO BE REMOVED TELEPHONE TYPE A TOP OF CURB TOP OF FOUNDATION TOP OF PIPE TOP OF WALK T
F.F.	FINISHED FLOOR	P.U.D.E.	PUBLIC UTILITY & DRAINAGE EASEMENT		
FES	FLARED END SECTION	R	RADIUS		



Simply Call 811

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	SITE DIMENSIONAL AND UTILITY PLAN
4	GRADING AND SOIL EROSION AND SEDIMENT CONTROL PLAN
5	CONSTRUCTION DETAILS
6	CONSTRUCTION SPECIFICATIONS

1. THE BOUNDARY LINES AND TOPOGRAPHY FOR THIS PROJECT ARE BASED ON A FIELD SURVEY COMPLETED BY MANHARD CONSULTING, LTD. ON MAY 16, 2018. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS.

BENCHMARKS:

REFERENCE BENCHMARK: (NGS PID: DM3900) BRASS SURVEY DISK SET IN THE EAST ABUTMENT ON THE SOUTH SIDE OF A LARGE BRIDGE ON GOLF ROAD OVER SALT CREEK MORE PARTICULARLY LOCATED 1744 FEET WEST OF THE CENTERLINE OF SOUTH NEW WILKE ROAD AND 48' SOUTH OF THE CENTERLINE OF GOLF ROAD

ELEVATION=695.85 DATUM=NAVD88-GEOID 12B

SITE BENCHMARK#1:

NORTH FLANGE BOLT ON HYDRANT LOCATED ON THE WEST SIDE OF SOUTH CEDAR GLEN DRIVE MORE PARTICULARLY LOCATED 20 FEET WEST OF THE CENTERLINE OF CEDAR GLEN DRIVE AND 177 FEET SOUTH OF THE CENTERLINE OF EAST ALGONQUIN ROAD. ELEVATION= 694.49 DATUM=NAVD88-GEOID 12B

SITE BENCHMARK#2:

NORTH FLANGE BOLT ON HYDRANT LOCATED ON THE SOUTH SIDE OF EAST ALGONQUIN ROAD MORE PARTICULARLY LOCATED 209 FEET WEST OF THE CENTERLINE OF SOUTH EMBERS LANE AND 50 FEET SOUTH OF THE CENTERLINE OF EAST ALGONQUIN ROAD. ELEVATION= 697.02 DATUM=NAVD88-GEOID 12B

<u>UTILITY (</u>	CONTACTS
ELECTRIC COMED 1N423 SWIFT ROAD LOMBARD, IL 60148 (630) 691-4862	WATER ARLINGTON HEIGHTS PUBLIC WORKS 222 N RIDGE AVENUE ARLINGTON HEIGHTS, IL 60005 (847) 368-5309 CONTACT: STEVE MULLANY
GAS NICOR 1844 FERRY ROAD NAPERVILLE, IL 60563 (630) 388–2362	
SEWER ARLINGTON HEIGHTS PUBLIC WORKS 222 N RIDGE AVENUE ARLINGTON HEIGHTS, IL 60005 (847) 368-5809 CONTACT: STEVE MULLANY	

EXPANSION HTS, BUILDING

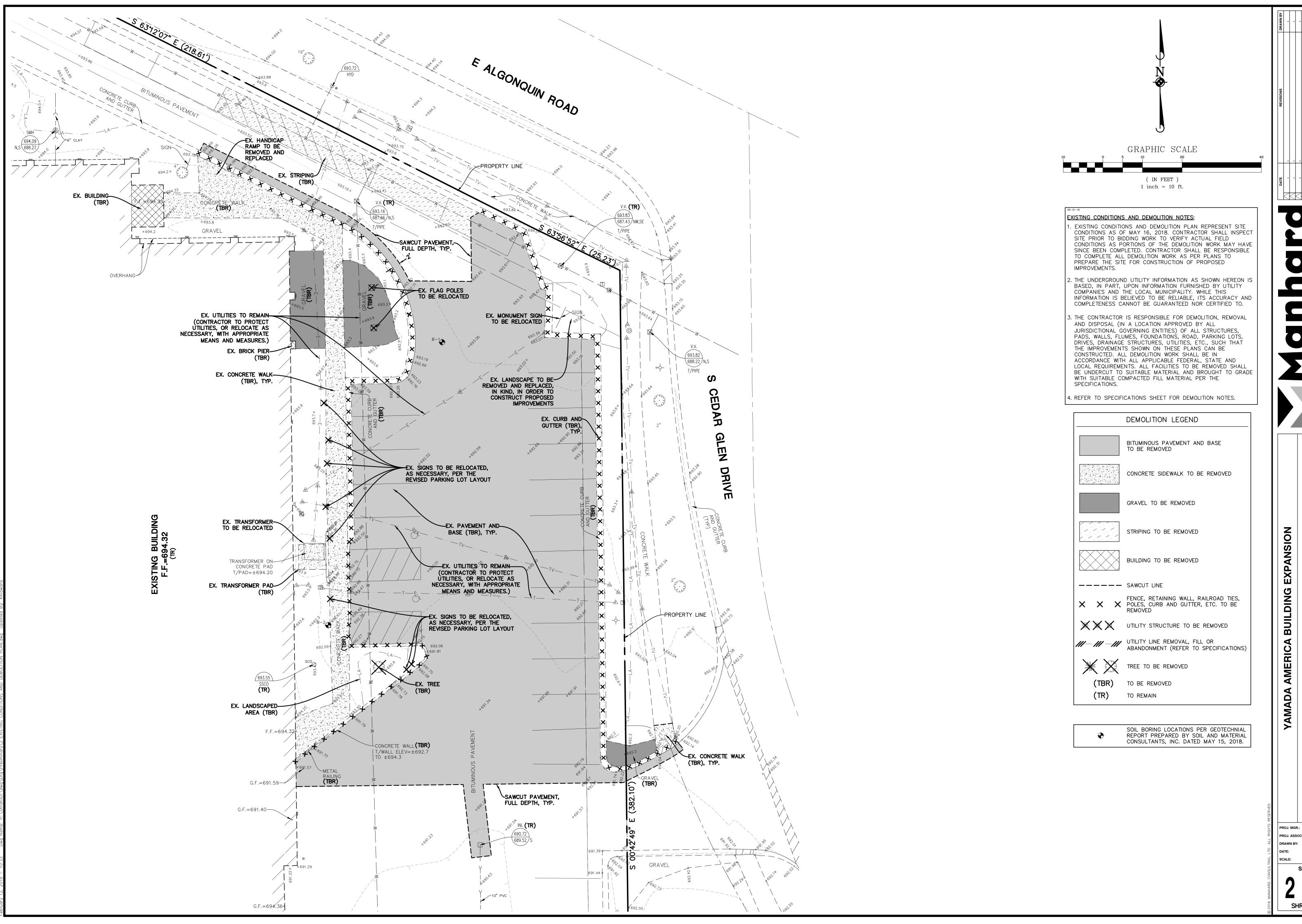
ARLINGTON HEIGI

AMERICA OF VILLAGE

PROJ. MGR.: <u>JSP</u> PROJ. ASSOC.: KRK DRAWN BY:

01-15-19 N.T.S. SCALE: SHEET

MANHARD CONSULTING, LTD. IS 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 PERSON OR ENTITY PERFORMING WORK OR SERVICES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.

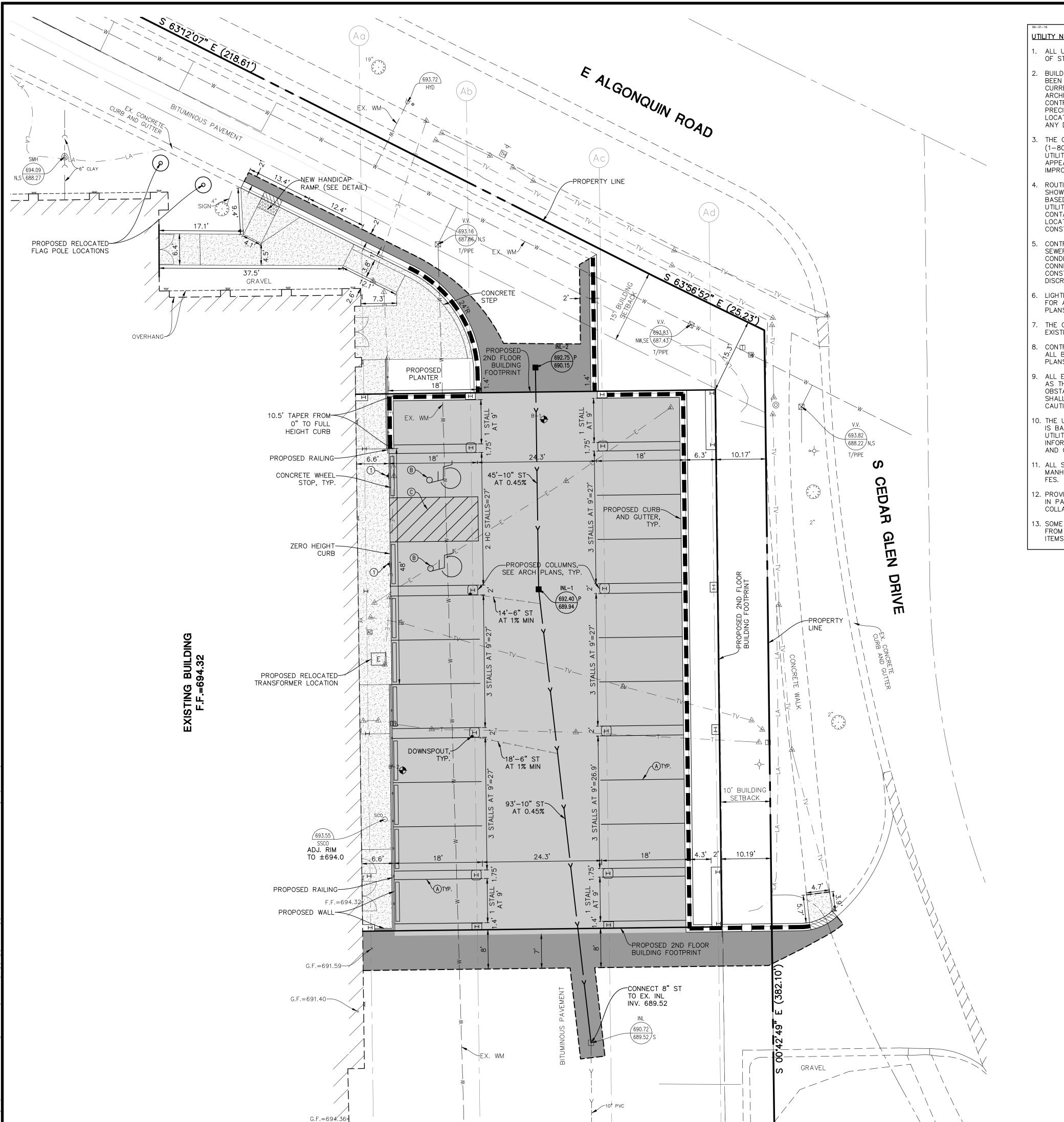


DEMOLITION PLAN ARLINGTON HEIGHTS, ILLINOIS

CONDITIONS VILLAGE **EXISTING**

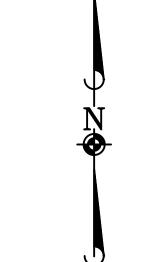
PROJ. MGR.: <u>JSP</u> PROJ. ASSOC.: KRK 01-15-19

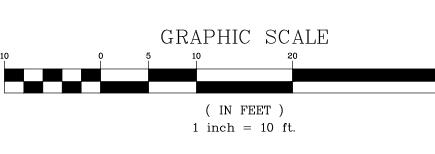
<u>1"=10'</u>



UTILITY NOTES:

- ALL UTILITY DIMENSIONS ARE TO CENTER OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- BUILDING DIMENSIONS AND ADJACENT UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE ÙTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
- ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES IF SHOWN ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE BASED UPON FINAL REVIEW AND APPROVAL BY RESPECTIVE UTILITY COMPANIES AND OWNER. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS FOR ALL UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL EXCAVATE AND VERIFY ALL EXISTING SEWER, WATER MAIN AND DRY UTILITY LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
- LIGHTING AND UNDERGROUND CABLE IF SHOWN ON PLANS ARE FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS AND DETAILS.
- THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO PROPOSED FINISH GRADES.
- B. CONTRACTOR TO VERIFY LOCATION, SIZES, AND ELEVATION OF ALL BUILDING SERVICE LOCATIONS WITH ARCHITECTURAL
- 9. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT ELEVATION OR LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
- 10. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HERE ON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED.
- 1. ALL STORM SEWER LENGTHS SHOWN ARE CENTER OF MANHOLE TO CENTER OF MANHOLE OR STORM MANHOLE TO
- 12. PROVIDE CONCRETE COLLAR FOR ALL DRAINAGE STRUCTURES IN PAVEMENT, NOT ADJACENT TO CURB. SEE CONCRETE COLLAR DETAIL ON DETAIL SHEET ..
- 13. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.



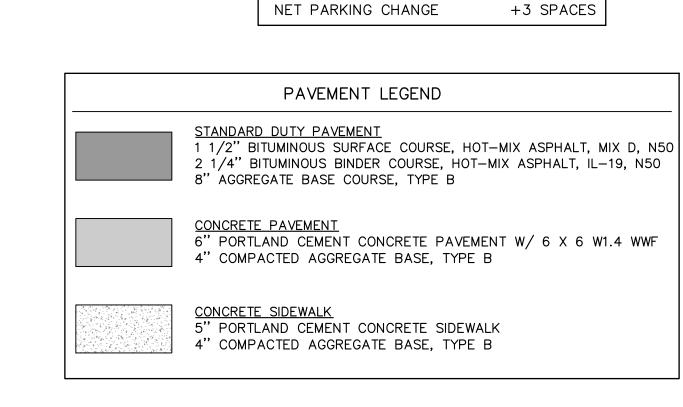


- SITE DIMENSIONAL AND PAVING NOTES:
- ALL DIMENSIONS ARE FACE OF CURB TO FACE OF CURB OR BUILDING FOUNDATION UNLESS NOTED OTHERWISE.
- ALL PROPOSED CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
- . TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2-#6 BARS x 18" LONG DOWELED INTO EXISTING CURB.
- BUILDING DIMENSIONS AND ADJACENT PARKING HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. BUILDING DIMENSIONS SHOWN SHOULD NOT BE
- IMPROVEMENTS ADJACENT TO BUILDING, IF SHOWN, SUCH AS TRUCK DOCK, RETAINING WALLS, SIDEWALKS, CURBING, FENCES, CANOPIES, RAMPS, HANDICAP ACCESS, PLANTERS, DUMPSTERS, AND TRANSFORMERS ETC. HAVE BEEN SHOWN FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS, SPECIFICATIONS AND DETAILS.
- ALL ROADWAY AND PARKING LOT SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.

USED FOR CONSTRUCTION LAYOUT OF BUILDING.

- PROVIDE DEPRESSED CURB AND RAMP AT ALL HANDICAP ACCESSIBLE SIDEWALK AND PATH LOCATIONS PER FEDERAL AND STATE STANDARDS.
- 8. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE ÙTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.

SITE DATA	
TOTAL PROPERTY AREA EXISTING PARKING LOT AREA NEW PARKING LOT AREA DISTURBED AREA	2.18 ACRES 0.16 ACRES 0.17 ACRES 0.28 ACRES
EXISTING PARKING PROVIDED EXISTING HANDICAP PROVIDED NEW PARKING PROVIDED NEW HANDICAP PROVIDED	18 SPACES 2 SPACES 21 SPACES 2 SPACES



PAVEMENT	MARKING	LEGEND
1 / (V)	1417 (1 (1 (1) 1 (LL OLI 1D

- A 4" YELLOW LINE
- B LETTERS AND SYMBOLS PAVEMENT MARKINGS
- © 4" YELLOW DIAGONAL AT 45" SPACED 2' O.C. W/ 4" YELLOW BORDER

SIGN LEGEND

(1) R7-8 HANDICAP PARKING SIGN

PROJ. MGR.: <u>JSP</u>

PROJ. ASSOC.: KRK DRAWN BY: 01-15-19 <u>1"=10'</u>

ARLINGTON HEIGHTS, ILLINOIS

VILLAGE

PLAN

AND

DIMENSIONAL

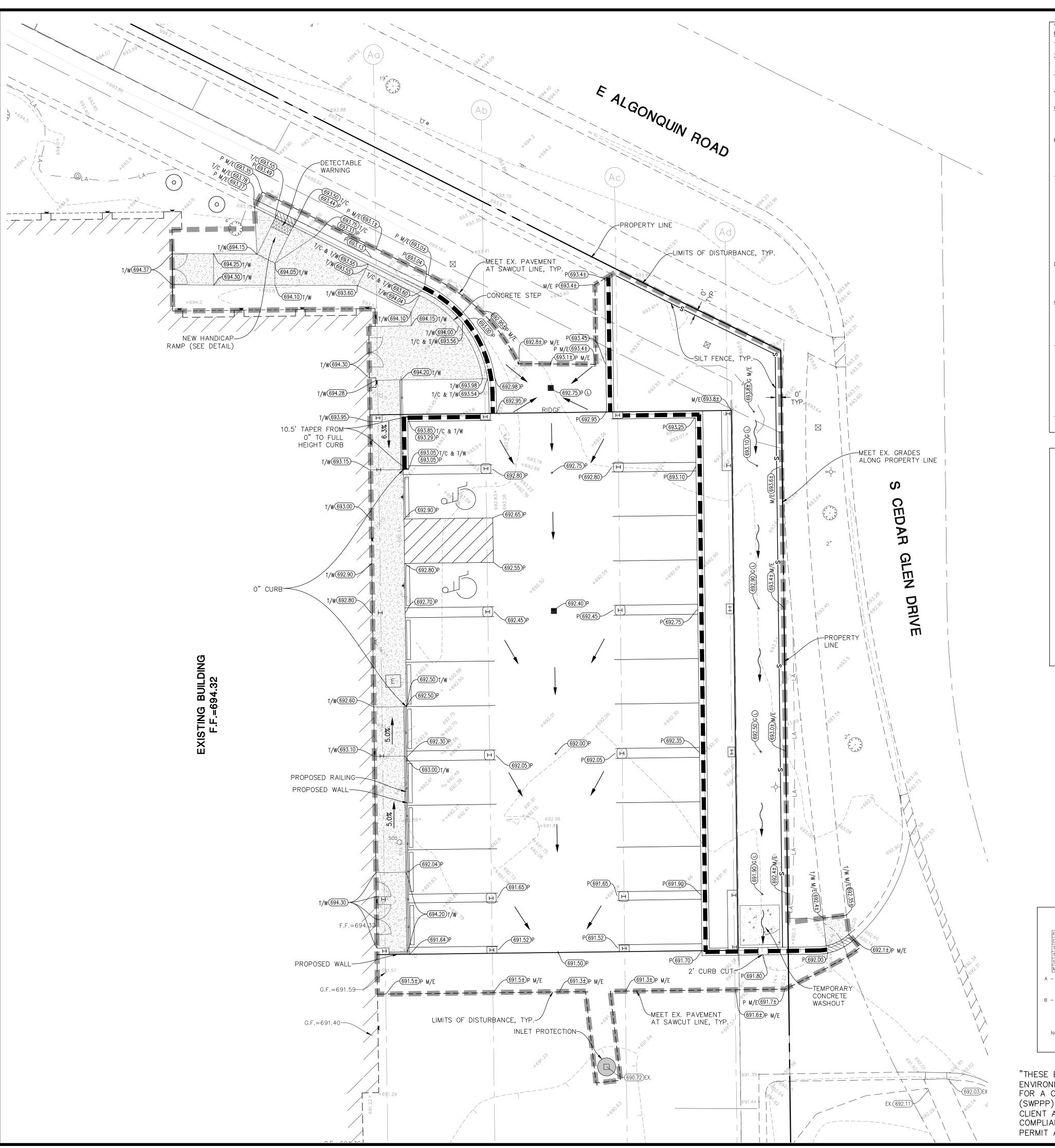
SITE

EXPANSION

BUILDING

AMERICA

SHEET

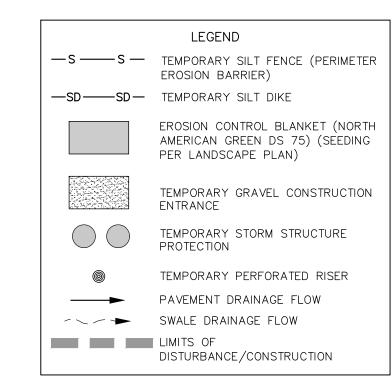


GRADING NOTES:

- RETAINING WALL DESIGN TO BE PROVIDED BY OTHERS. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING
- AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A
- MAXIMUM CROSS SLOPE OF 2.00% OR LESS. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED
- CONTRACTOR SHALL REFER TO THE SOIL EROSION AND
- SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
- THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THÈSE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALI THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
- . ALL UNPAVED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H: 1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- D. EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY MANHARD CONSULTING ON MAY 16, 2018. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITEC AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR FXPENSE. A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.

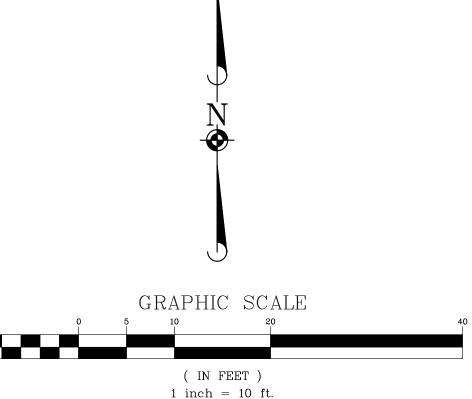
GRADING PLAN LEGEND

764	PROPOSED 1 FOOT CONTOURS
792.8 G	PROPOSED SPOT ELEVATION
F.F.	PROPOSED FINISHED FLOOR ELEVATION
G/F	PROPOSED GRADE AT FOUNDATION
Р	PROPOSED PAVEMENT ELEVATION
т/с	PROPOSED TOP OF CURB
T/W	PROPOSED TOP OF WALK
T/WALL	PROPOSED TOP OF WALL
M/E	MEET EXISTING
G	PROPOSED GROUND GRADE OR GROUND AT BASE OF RETAINING WALL
~~	PROPOSED DITCH OR SWALE
→	PROPOSED DIRECTION OF FLOW
	OVERFLOW RELIEF SWALE
RIDGE	PROPOSED RIDGE LINE
(0.5)	PROPOSED DEPTH OF PONDING
	RETAINING WALL
	PROPOSED SWALE LOW POINT
S	PROPOSED SWALE SUMMIT



PERMANENT SEEDINGS DORMANT SEEDINGS TEMPORARY SEEDINGS SODDING MULCHING A - KENTUCKY BLUEGRASS 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 30 LBS./AC. B - KENTUCKY BLUEGRASS F - SOD (NURSERY GROWN KENTUCKY BLUEGRASS) ** IRRIGATION NEE DURING JUNE, AND SEPTEMBE	STABILIZATION CHART	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DE
TEMPORARY SEEDINGS D TEMPORARY SEEDINGS D SODDING E** MULCHING F A - KENTUCKY BLUEGRASS 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 30 LBS./AC. E - SOD (NURSERY GROWN KENTUCKY BLUEGRASS) B - KENTUCKY BLUEGRASS 5 E - SOD (NURSERY GROWN KENTUCKY BLUEGRASS) ** IRRIGATION NEE	PERMANENT SEEDINGS			Α			*	*		*-	-		
TEMPORARY SEEDINGS D SODDING MULCHING A - KENTUCKY BLUEGRASS 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 30 LBS./AC. B - KENTUCKY BLUEGRASS 90 LBS./AC. E - SOD (NURSERY GROWN KENTUCKY BLUEGRASS) ** IRRIGATION NEE DURING JUNE, AND SEPTEMBE ** ** D - WHEAT OR CEREAL RYE AND SEPTEMBE ** ** AND SEPTEMBE ** ** ** IRRIGATION NEE ** ** ** IRRIGATION NEE ** ** ** ** IRRIGATION NEE ** ** ** ** ** ** ** ** **	DORMANT SEEDINGS	В		-							B-		—
SODDING MULCHING A - KENTUCKY BLUEGRASS 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 30 LBS./AC. B - KENTUCKY BLUEGRASS 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS TO BE - SOD (NURSERY GROWN KENTUCKY BLUEGRASS) ** IRRIGATION NEE ** ** D - WHEAT OR CEREAL RYE AND SEPTEMBE ** ** ** IRRIGATION NEE ** ** ** ** IRRIGATION NEE ** ** ** ** ** ** ** ** **	TEMPORARY SEEDINGS			c—						-			
MULCHING F SPRING OATS * IRRIGATION NEED DURING JUNE, AND SEPTEMBE SOON LBS./AC. B. = KENTUCKY BLUEGRASS & C - SPRING OATS DURING JUNE, AND SEPTEMBE SOON KENTUCKY BLUEGRASS ** IRRIGATION NEED SEPTEMBE	TEMPORARY SEEDINGS	D											-
A - KENTUCKY BLUEGRASS 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 30 LBS./AC. E - SOD (NURSERY GROWN KENTUCKY BLUEGRASS) * IRRIGATION NEE DURING JUNE, AND SEPTEMBE ** IRRIGATION NEE	SODDING			E**						-	-		
90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 30 LBS./AC. E - SOD (NURSERY GROWN KENTUCKY BLUEGRASS) ** IRRIGATION NEE	MULCHING	F											<u> </u>
135 LBS./AC. MIXED WITH F — STRAW MULCH FOR 2—3 WEEK PERENNIAL RYEGRASS 2 TONS PER ACRE AFTER SODDING 45 LBS./AC. 2 TONS STRAW MULCH PER ACRE			_						*				

"THESE EROSION CONTROL PLANS ARE A PORTION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) TOTAL REQUIREMENTS FOR A COMPLETE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE GENERAL NPDES PERMIT NO. ILR10. CLIENT AND/OR CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL NPDES PERMIT AND COMPILATION OF THE COMPLETE SWPPP."



SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

- ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS URBAN MANUAL"
- MAINTENANCE AND REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE OWNER, SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.
- INSTALL ALL PERIMETER SILT FENCING PRIOR TO ANY CLEARING OR GRADING. ONSITE SEDIMENT CONTROL MEASURES AS SHOWN AND SPECIFIED BY THIS EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE CONSTRUCTED AND FUNCTIONAL PRIOR TO INITIATING CLEARING, GRADING, STRIPPING, EXCAVATION OR FILLING ACTIVITIES ON THE SITE.
- PRIOR TO BEGINNING MASS EXCAVATION, THE CONTRACTOR SHALL CONSTRUCT DITCHES, SWALES, SEDIMENTATION TRAPS AND SILTATION CONTROL MEASURES AS REQUIRED TO INTERCEPT SURFACE WATERS BEFORE THEY FLOW ONTO ADJACENT PROPERTY.
- IF STORMWATER DETENTION IS NOT REQUIRED THE CONTRACTOR SHALL CONSTRUCT DITCHES, SWALES, SEDIMENT TRAPS AND SILTATION CONTROL MEASURES AS REQUIRED TO INTERCEPT SURFACE WATERS BEFORE THEY FLOW ONTO ADJACENT PROPERTY.
- DISTURBED AREA SHALL BE STABILIZED BY SEEDING AT A MINIMUM, WITHIN SEVEN (7) DAYS OF COMPLETION OF DISTURBANCE UNLESS THE AREA WILL BE DISTURBED WITHIN FOURTEEN (14) DAYS AND GRASS SOWN AS NECESSARY TO RE- ESTABLISH VEGETATION FOR CONTROL OF SILTATION AND SOIL EROSION.
- 8. TEMPORARY SEED MIXTURE SHALL BE APPLIED AT 64 LBS/ACRE.
- 9. INLET PROTECTION SHALL BE INSTALLED UNDER THE GRATING OF EACH DRAINAGE STRUCTURE.
- 10. TOPSOIL STOCKPILES SHALL BE SEEDED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION FOR EROSION CONTROL UNLESS THEY WILL BE DISTURBED WITHIN FOURTEEN (14) CALENDAR DAYS. ALL SOIL STORAGE PILES SHALL BE PROTECTED FROM EROSION WITH SILT FENCE ON THE DOWN SLOPE SIDE OF THE PILES.
- . DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS
- 12. WATER PUMPED DURING CONSTRUCTION OPERATION SHALL BE FILTERED.
- 13. DUST CONTROL SHALL BE PERFORMED ON A DAILY BASIS USING WATER DISPERSED FROM A TRUCK MOUNTED TANK WITH STANDARD DISCHARGE HEADER TO PROVIDE A UNIFORM RATE OF APPLICATION.
- 14. TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED, ADJUSTED OR RELOCATED AS NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC ROADWAYS. ANY SEDIMENT REACHING A PUBLIC ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING BEFORE THE END OF EACH WORKING DAY.
- 15. ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE STRUCTURE DURING CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
- 16. OVERLAND FLOW SHALL BE DIRECTED TO THE STORM INLETS PRIOR TO LEAVING THE SITE.
- 17. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE CLIENT OR OTHER JURISDICTIONAL GOVERNMENTAL ENTITIES.
- 18. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN 30 DAYS OF FINAL STABILIZATION.

- CONSTRUCTION SEQUENCE: INSTALL SILT FENCE AT LOCATIONS AS INDICATED ON THE
- . PROVIDE STABILIZED CONSTRUCTION ENTRANCE.
- 3. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS.
- STRIP EXISTING TOPSOIL FROM PROPOSED LIMITS OF DISTURBANCE AND STOCKPILE WHERE SHOWN ON PLANS.
- . PROVIDE SILT FENCE AROUND THE BASE OF THE STOCKPILES. 6. CUT AND FILL SITE TO PLAN SUB-GRADE.
- CONSTRUCT UNDERGROUND IMPROVEMENTS, STORM SEWER**,
- . CONSTRUCT PAVEMENT IMPROVEMENTS PER PLAN. COMPLETE CONSTRUCTION OF SITE WITH PERMANENT
- STABILIZATION. . REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL
- MEASURES. ** INSTALL INLET PROTECTION AROUND DRAINAGE STRUCTURES AS CONSTRUCTED.



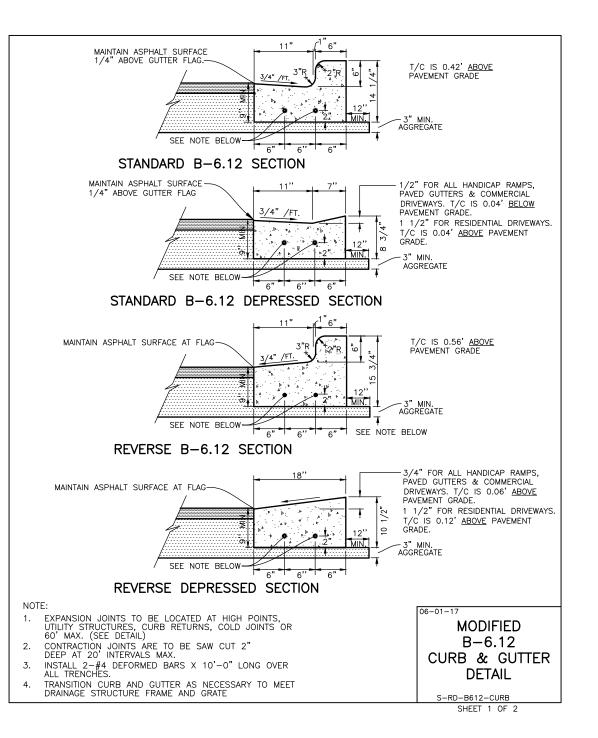
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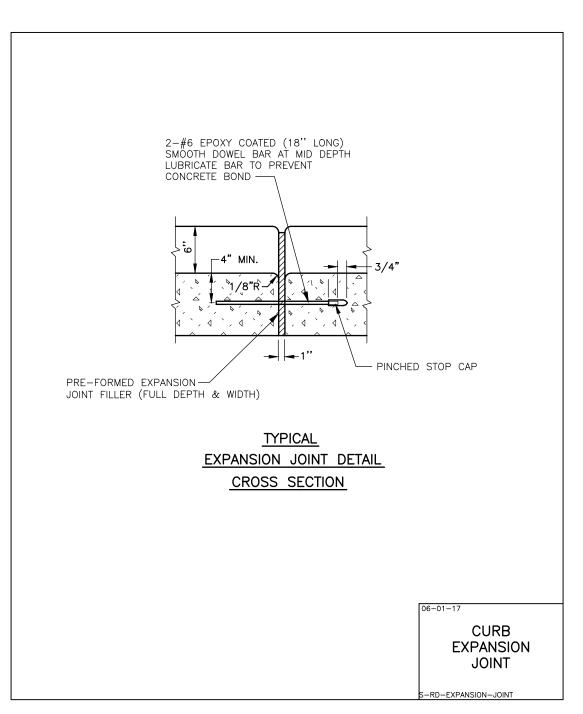
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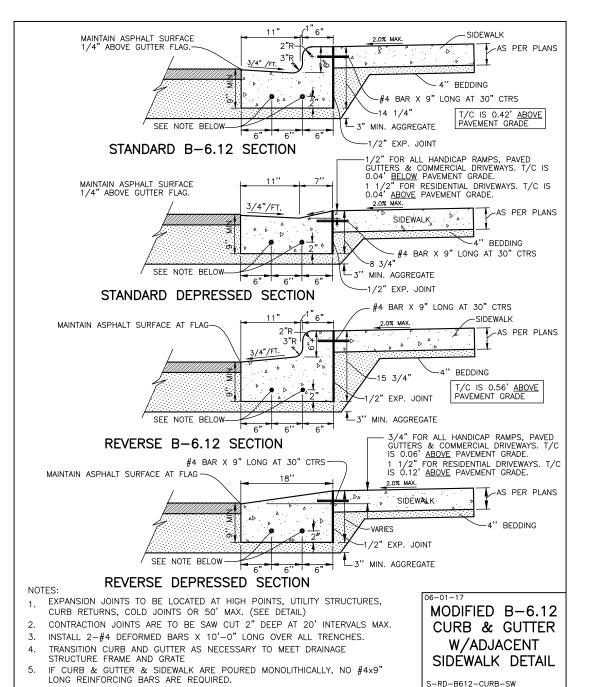
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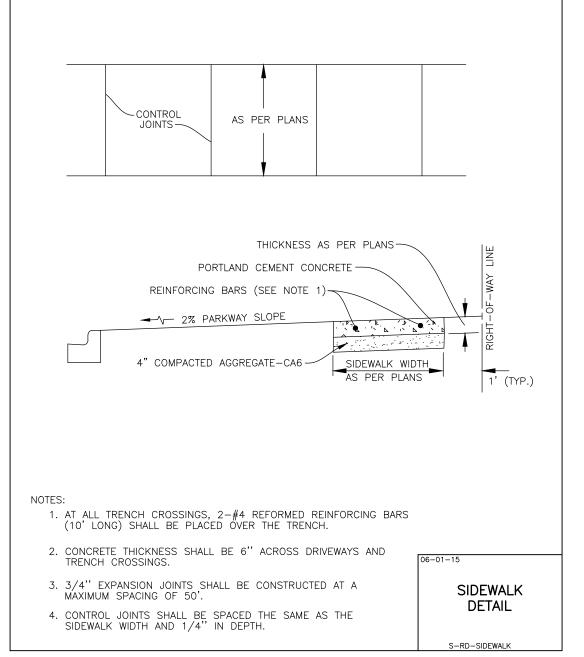
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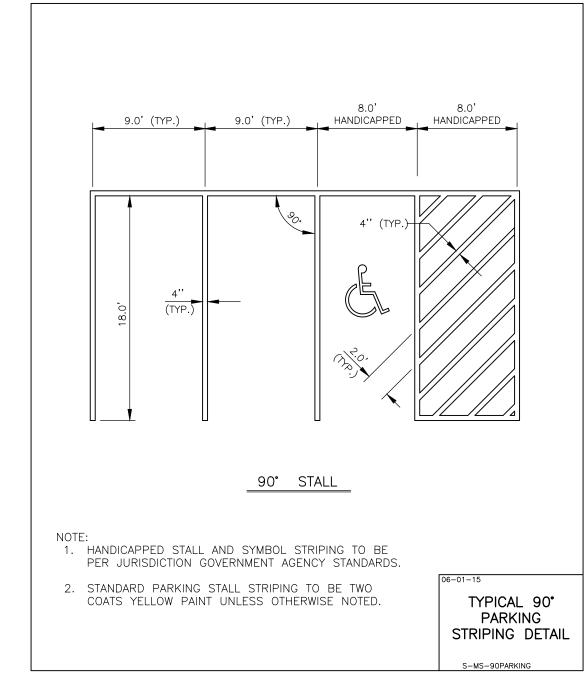
<u>1"=10'</u> SCALE: SHEET

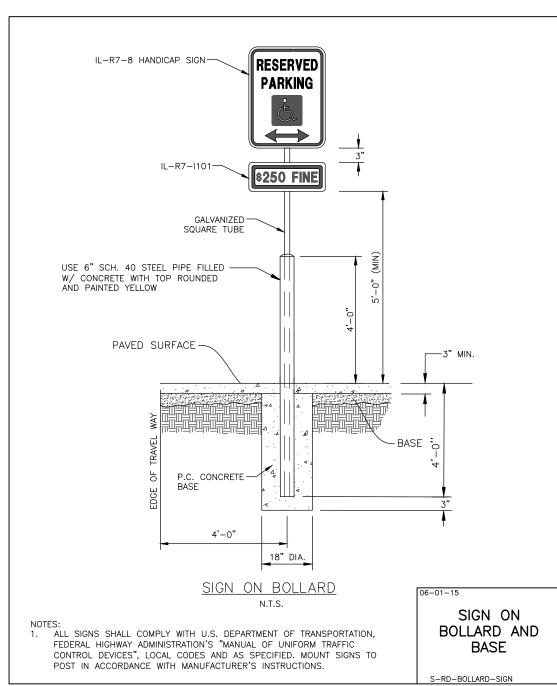


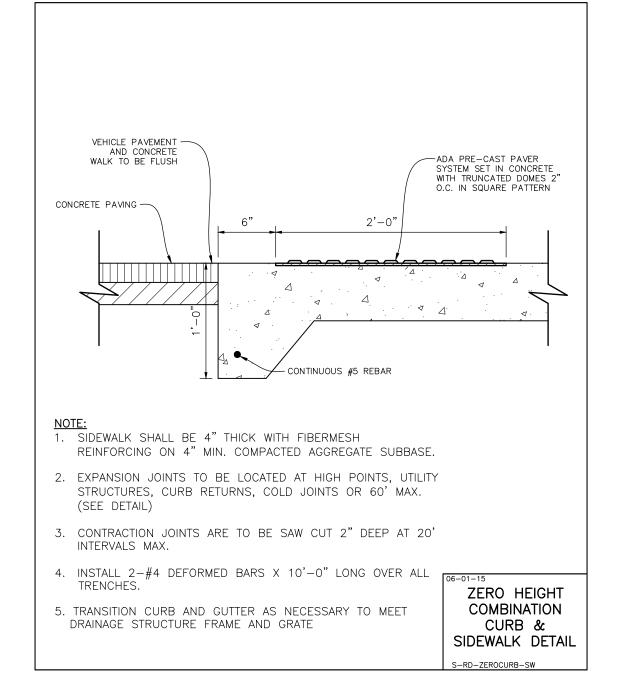


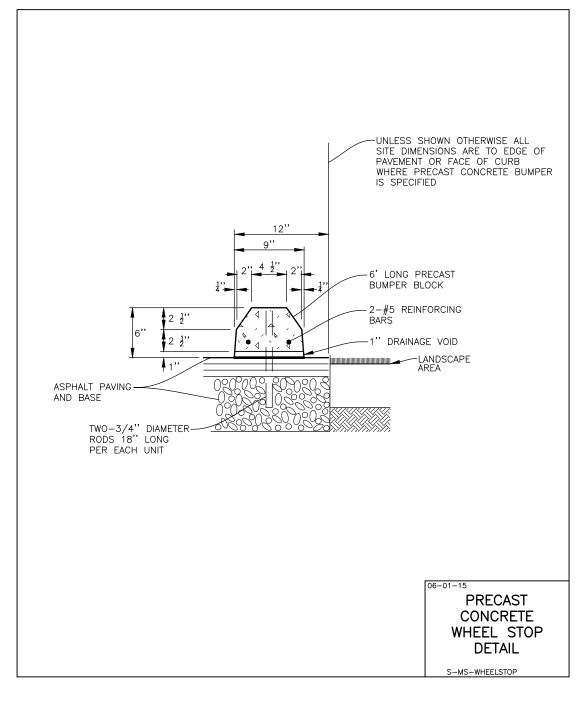


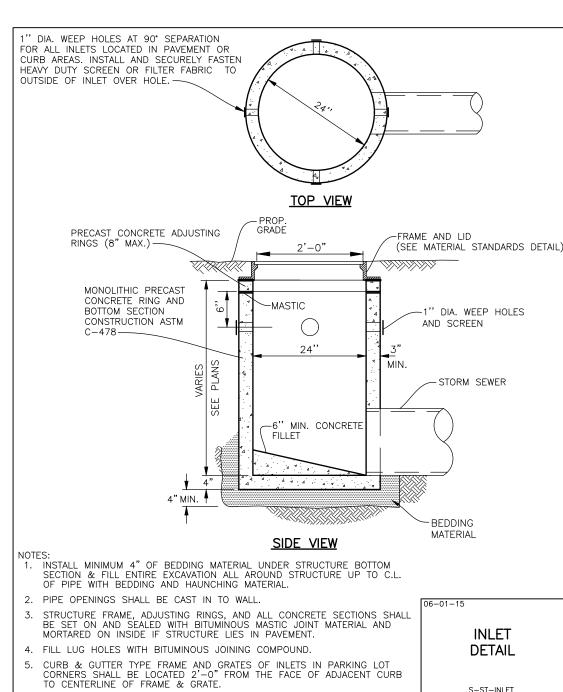


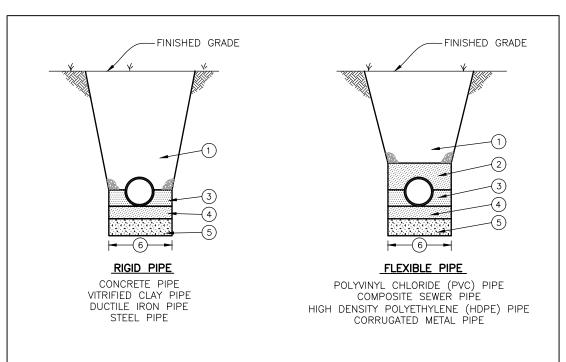






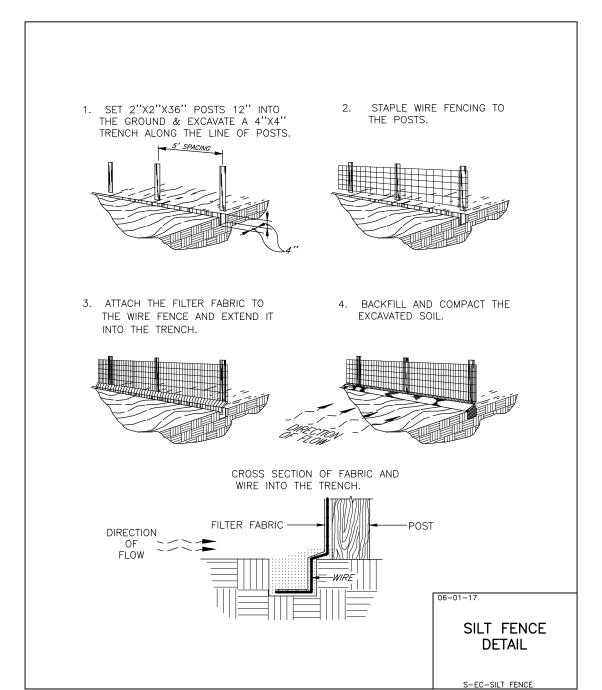


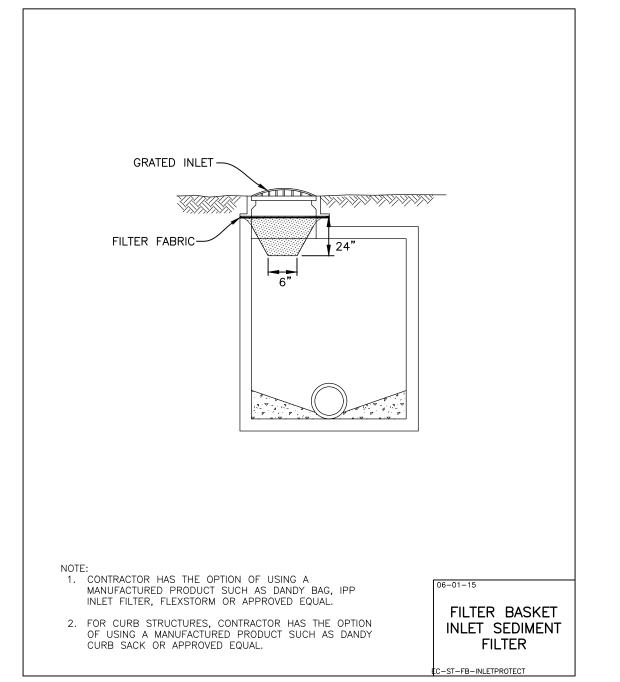


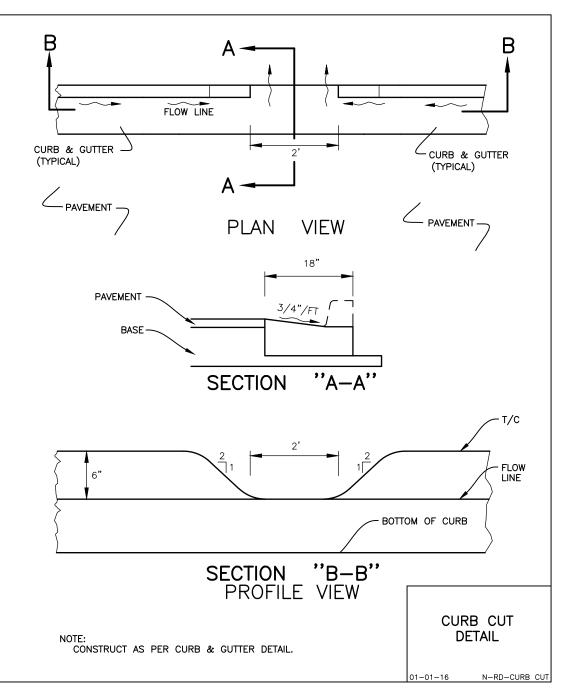


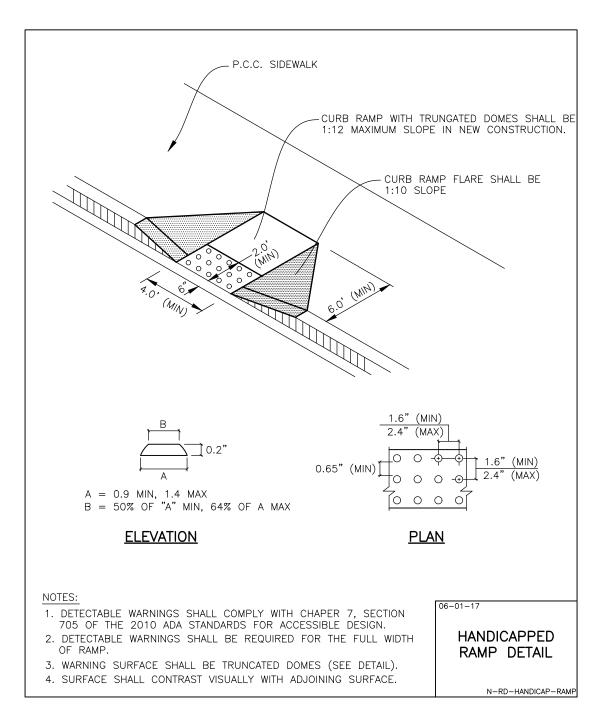
- MECHANICALLY COMPACTED SELECTED GRANULAR BACKFILL IN 6 INCH LIFTS UNDER OR WITHIN 2 FEET OF ANY PAVEMENT, CURB & GUTTER OR SIDEWALK. MACHINE COMPACTION OF EXCAVATED MATERIAL IN OTHER LOCATIONS WHERE SUITABLE.
- 2 MECHANICALLY COMPACTED SELECTED GRANULAR BACKFILL IN 6 INCH LIFTS TO 12" ABOVE TOP OF PIPE.
- RIGID PIPE: WELL-COMPACTED HAUNCHING MATERIAL PLACED IN MAXIMUM 6 INCH LIFTS TO SPRING LINE OF PIPE FLEXIBLE PIPE: WELL-COMPACTED HAUNCHING MATERIAL PLACED IN MAXIMUM 6 INCH LIFTS TO SPRING LINE OF PIPE.
- (4) 4" WELL-COMPACTED BEDDING MATERIAL
- (5) UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED WITH GRANULAR FOUNDATION MATERIAL WHERE SOIL CONDITIONS WARRANT
- TRENCH DEPTH OF 5 FEET AND LESS, WITHOUT PROTECTION
 OUTSIDE DIAMETER + 12 INCHES ON EACH SIDE OF THE PIPE. TRENCH DEPTH OF 5 FEET AND LESS, WITH PROTECTION OUTSIDE DIAMETER + 18 INCHES ON EACH SIDE OF THE PIPE. TRENCH DEPTH OF GREATER THAN 5 FEET
 OUTSIDE DIAMETER + 18 INCHES ON EACH SIDE OF THE PIPE.

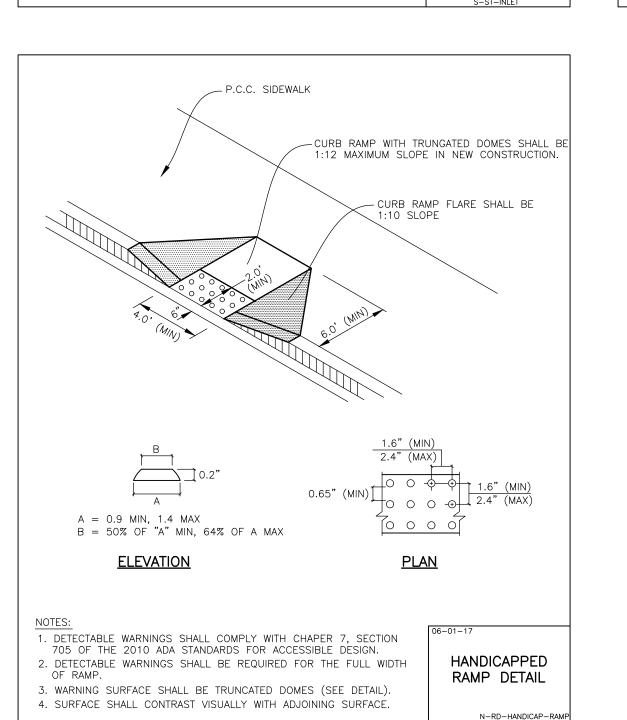
PIPE INSTALLATION DETAIL











ILLINOIS **EXPANSION** DETAILS HEIGHTS, BUILDING HON ARLINGTON CONSTRUC **AMERICA** OF 5

PROJ. MGR.: JSP PROJ. ASSOC.: KRK DRAWN BY: 01-15-19 N.T.S. SCALE:

SHEET

CONTRACTOR'S covenants stated herein. DEFINITION OF TERMS

Engineering PLANS and SPECIFICATIONS. b. "ENGINEER" shall mean Manhard Consulting, Ltd., a Civil Engineering consultant on the subject project.

c. "PLANS and SPECIFICATIONS" shall mean the Civil Engineering PLANS and SPECIFICATIONS prepared by the ENGINEER, which may be a part of

a. "CLIENT" shall mean Sherman Construction LLC, which is the person or entity with whom Manhard Consulting, Ltd. has contracted with to prepare Civil

the contract documents for the subject project.

d. "CONTRACTOR" shall mean any person or entity performing any work described in the PLANS and SPECIFICATIONS. e. "JURISDICTIONAL GOVERNMENTAL ENTITY" shall mean any municipal, county, state or federal unit of government from whom an approval, permit

INTENT OF THE PLANS AND SPECIFICATIONS

and/or review is required for any aspect of the subject project.

The intent of the PLANS and SPECIFICATIONS is to set forth certain requirements of performance, type of equipment and structures, and standards of materials and construction. They may also identify labor and materials, equipment and transportation necessary for the proper execution of the work but are not intended to be infinitely determined so as to include minor items obviously required as part of the work. The PLANS and SPECIFICATIONS require new material and equipment unless otherwise indicated, and to require complete performance of the work in spite of omissions of specific references to any minor component part. It is not intended, however, that materials or work not covered by or properly inferred from any heading, branch, class or trade of the SPECIFICATIONS shall be supplied unless distinctly so noted. Materials or work described in words, which so applied have a well-known technical or trade meaning, shall be held to refer to such recognized standards.

INTERPRETATION OF PLANS AND SPECIFICATIONS

a. The CLIENT and/or CONTRACTOR shall promptly report any errors or ambiguities in the PLANS and SPECIFICATIONS to the ENGINEER. Questions as to meaning of PLANS and SPECIFICATIONS shall be interpreted by the ENGINEER, whose decision shall be final and binding on all parties

b. The ENGINEER will provide the CLIENT with such information as may be required to show revised or additional details of construction.

c. Should any discrepancies or conflicts on the PLANS or SPECIFICATIONS be discovered either prior to or after award of the contract, the ENGINEER's attention shall be called to the same before the work is begun thereon and the proper corrections made. Neither the CLIENT nor the CONTRACTOR may take advantage of any error or omissions in the PLANS and SPECIFICATIONS. The ENGINEER will provide information when errors or omissions are

GOVERNING BODIES

All works herein proposed shall be completed in accordance with all requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, and all such pertinent laws, directives, ordinances and the like shall be considered to be a part of these SPECIFICATIONS. If a discrepancy is noted between the PLANS and SPECIFICATIONS and requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, the CLIENT and/or the CONTRACTOR shall immediately notify the ENGINEER in writing.

LOCATION OF UNDERGROUND FACILITIES AND UTILITIES

When the PLANS and SPECIFICATIONS include information pertaining to the location of existing underground facilities and utilities (including but not limited to water mains, sanitary sewers, storm sewers, electric, telephone, gas and cable TV lines), such information represents only the opinion of the ENGINEER as to the approximate location and elevation of such facilities and utilities. At the locations wherein detailed positions of these facilities and utilities become necessary to the new construction, including all points of connection, the CONTRACTOR shall furnish all labor and tools to verify or definitely establish the horizontal location, elevation, size and material (if appropriate) of the facilities and utilities. The CONTRACTOR shall notify the ENGINEER at least 48 hours prior to construction if any discrepancies in existing utility information or conflicts with existing utilities exist. The ENGINEER assumes no responsibility whatever with respect to the sufficiency or accuracy of the information shown on the PLANS and SPECIFICATIONS relative to the location of underground facilities and utilities, nor the manner in which they are removed or adjusted

It shall be the CONTRACTOR's responsibility prior to construction, to notify all Utility Companies of the intent to begin construction and to verify the actual location of all such facilities and utilities. The CONTRACTOR shall also obtain from the respective Utility Companies the working schedules for removing or

adjusting these facilities.

UNSUITABLE SOILS The PLANS have been prepared by the ENGINEER based on the assumption that all soils on the project are suitable to support the proposed improvements shown. The CLIENT or CONTRACTOR shall immediately notify the ENGINEER if he discovers or encounters an obstruction that prevents the installation of the improvement according to the line and grades shown on the PLANS.

PROTECTION OF TREES All trees that are not to be removed shall be protected from damage. Trees shall not be removed unless requested to do so in writing by the CLIENT.

NOTIFICATION OF OWNERS OF FACILITIES AND UTILITIES

The CONTRACTOR shall notify all applicable Jurisdictional Governmental Entities or utility companies, i.e., water, sewer, electric, telephone, gas and cable TV prior to beginning any construction so that said entity or company can establish the location and elevation of underground pipes, conduits or cables adjoining or crossing proposed construction. TRAFFIC CONTROL

The CONTRACTOR shall provide when required by any JURISDICTIONAL GOVERNMENTAL ENTITY, all signs, equipment, and personnel necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. The CLIENT may, at his discretion, require the CONTRACTOR to furnish traffic control under these or other circumstances where in his opinion it is necessary for the protection of life and property. Emergency vehicle access shall be maintained at all times. Unless authorized by the CLIENT or CLIENT's construction representative, all existing access points shall be maintained at all times by the CONTRACTOR. The need for traffic control shall be anticipated by the CLIENT.

The CONTRACTOR his agents and employees and their employees and all equipment, machinery and vehicles shall confine their work within the boundaries of the project or work area specified by the Client. The CONTRACTOR shall be solely liable for damage caused by him or his agents and employees and their equipment, machinery and vehicles on adjacent property or areas outside designated work areas.

*UTILITY POLES - INTENTIONALLY OMITTED **RESTORATION**

It is the intent of these SPECIFICATIONS that clean-up and final restoration shall be performed immediately upon completion of each phase of the work, both inside and outside the Project, or when so directed by the CLIENT so that these areas will be restored as nearly as possible to their original condition or better, and shall include but not be limited to, restoration of maintained lawns and rights-of-way, roadways, driveways, sidewalks, ditches, bushes, hedges, trees, shrubs, fences, mailboxes, sewers, drain tiles, water mains, etc.

CLEANING UP The CONTRACTOR shall at all times keep the premises free from accumulations of waste material or rubbish caused by his employees or work, and at the completion of the work he shall remove all his rubbish, tools, scaffolding and surplus materials and shall leave his work "broom clean" or its equivalent, unless more exactly specified.

ROAD CLEANING The CONTRACTOR shall maintain roadways adjoining the project site free from mud and debris at all times. If mud and/or debris is carried onto the roadways from vehicles entering onto the highway from either the CONTRACTOR's trucks, his employees' vehicles, or his material suppliers, the CONTRACTOR shall

immediately remove said mud and/or debris.

The CONTRACTOR shall be solely and completely responsible for the conditions of the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours. The CONTRACTOR shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR's duties and responsibilities for safety and for protection of the work shall continue until such time as all work is completed and the CLIENT has notified CONTRACTOR that the work is acceptable. The duties of the ENGINEER do not include review of the adequacy of either the CONTRACTOR's or the general public's safety in, on, or near the construction site.

HOLD HARMLESS

To the fullest extent permitted by law, any CONTRACTOR; material supplier or other entity by use of these plans and specifications hereby waives any right of contribution and agrees to indemnify, defend, save and hold harmless the CLIENT and ENGINEER and its agents, employees and consultants from and against all manner of claims, causes, causes of action, damages, losses and expenses, including but not limited to, attorneys' fees arising out of, resulting from or in connection with the performance of any work, pursuant to or with respect to these plans and specifications. However, this indemnity shall not be construed to indemnify ENGINEER, its consultants, agents or employees against its own negligence.

Claims, damages, losses and expenses as these words are used in the Agreement shall mean and include, but not be limited to (1) injury or damage. occurring by reason of the failure of or use or misuse of any hoist, riggings, blocking, scaffolding or any and all other kinds of items of equipment, whether or not the same be owned, furnished or loaned by any part or entity, including any contractor; (2) all attorneys' fees and costs incurred in bringing an action to enforce the provisions of this indemnity; (3) costs for time expended by the indemnified party and its employees, at its usual rates plus costs or travel, long distance telephone and reproduction of documents and (4) consequential damages.

In any and all claims against the CLIENT or ENGINEER or any of their agents or employees and consultants by any party, including any employee of the CONTRACTOR or any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount of type of damages, compensation or benefits payable by or for the CONTRACTOR or any Subcontractor under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts or any insurance maintained by CONTRACTOR or any Subcontractor or any other party.

Any party using or relying on these plans, including any contractor, material supplier, or other entity shall obtain, (prior to commencing any work) general

public liability insurance insuring against all damages and claims for any bodily injuries, death or property damage arising out of any work, including the construction work provided for in these plans, and shall name the CLIENT and ENGINEER and its consultants, agents and representatives as additional insureds under such insurance policy; provided that any party using or relying on these plans having obligations to maintain specific insurance by reason of any agreement with CLIENT or any CONTRACTOR or ENGINEER shall provide evidence and certificates of insurance as required by such contract or agreement. Such insurance must contain a clause stating that the insurance is primary coverage for ENGINEER and ENGINEER's other applicable coverage is considered secondary. Such insurance shall not limit any liability of any party providing work or services or providing materials.

THIRD PARTY BENEFICIARY

Manhard Consulting, Ltd., the ENGINEER, is intended to be a third party beneficiary of this willing agreement and requirement. Note: These Specifications are for Northern Illinois.

contract documents. Except for materials designed to be relocated on this plan, all other construction materials shall be new.

DETAILED SPECIFICATIONS

I. *DEMOLITION

The CONTRACTOR shall coordinate with respective utility companies prior to the removal and/or relocation of utilities. The CONTRACTOR shall coordinate with the utility company concerning portions of work which may be performed by the Utility Company's forces and any fees which are to be paid to the utility company for their services. The CONTRACTOR is responsible for paying for all fees and charges Should removal and/or relocation activities damage features indicated to remain, the CONTRACTOR shall provide new materials/structures in accordance with the

Prior to demolition occurring, all erosion control devices are to be installed. The CONTRACTOR is responsible for demolition, removal and disposal (in a location approved by all JURISDICTIONAL GOVERNING ENTITIES) of all structures, pads, walls, flumes, foundations, road, parking lots, drives, drainage structures, utilities, etc., such that the improvements shown on these plans can be constructed. All

demolition work shall be in accordance with all applicable federal, state and local requirements. All facilities to be removed shall be undercut to suitable material and brought to grade with suitable compacted fill material per the specifications. The CONTRACTOR is responsible for obtaining all permits required for demolition and disposal.

Electrical, telephone, cable, water, fiber optic cable and/or gas lines needing to be removed shall be coordinated by the CONTRACTOR with the affected utility company. CONTRACTOR must protect the public at all times with fencing, barricades, enclosures, and other appropriate best management practices Continuous access shall be maintained for surrounding properties at all times during demolition

All fire access lanes within the project area shall remain in service, clean of debris, and accessible for use by emergency vehicles. CONTRACTOR shall maintain all existing parking areas, sidewalks, drives, etc. clear and free from any construction activity and/or material to ensure easy and safe

pedestrian and vehicular traffic to and from the site. CONTRACTOR shall coordinate/phase all construction activity within proximity of the building and utility interruptions with the facility manager to minimize disturbance and inconvenience to facility operations.

CONTRACTOR may limit saw-cut and pavement removal to only those areas where it is required as shown on these construction plans, however if any damage is

incurred on any of the surrounding pavement, etc. the CONTRACTOR shall be responsible for ITS removal and repair Any existing septic tanks and grease traps encountered shall have all liquids and solids removed and disposed of by a licensed commercial hauler in accordance with

JURISDICTIONAL GOVERNING ENTITY regulations, and the tank and grease traps shall then be filled with suitable materials or removed from the site and disposed of

Voids left by any item removed under any proposed building, pavement, walk, etc. or within 24" thereof shall be filled and compacted with suitable materials by the

The CONTRACTOR shall be responsible for the disconnection of utility services to the existing buildings prior to demolition of the buildings.

Any material containing asbestos found within existing structures shall be removed from the site and disposed of off-site by the CONTRACTOR in accordance with

CONTRACTOR shall develop and implement a daily program of dust control and shall submit and obtain JURISDICTIONAL GOVERNING ENTITY approval of dust control procedures prior to demolition of any structures. Modification of dust control procedures shall be performed by the CONTRACTOR to the satisfaction of the JURISDICTIONAL GOVERNING ENTITY as requested.

The CONTRACTOR shall coordinate all demolition with the JURISDICTIONAL GOVERNING ENTITY and CLIENT to ensure protection and maintenance of sanitary sewer and water utilities as necessary and to provide stormwater conveyance until new facilities are constructed, tested and placed into operation.

The locations of all existing utilities shown on this plan have been determined from the best information available and are given for the convenience of the CONTRACTOR and are not to be interpreted as the exact location, or as the only obstacles that may occur on the site. The ENGINEER assumes no responsibility for their accuracy. Prior to the start of any demolition activity, the CONTRACTOR shall notify the utility companies for location of existing utilities and shall verify existing conditions and proceed with caution around any anticipated features.

II.EARTHWORK

This work shall be completed in conformance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition except as modified below.

SOIL BORING DATA

Copies of results of soil boring and reports, if such borings were taken by the CLIENT in the vicinity of the proposed construction site, should be made available by the CLIENT to the CONTRACTOR. These borings are presented for whatever purpose the CONTRACTOR chooses to make of them. The ENGINEER makes no representation or warranty regarding the number, location, spacing or depth of borings taken, nor of the accuracy or reliability of the information given in the results thereof.

Further, the ENGINEER does not assume responsibility for the possibility that during construction, the soil and groundwater condition may be different than indicated. Neither does the ENGINEER assume responsibility for variations of soil and groundwater at location between borings. The CONTRACTOR is required to make its own borings, explorations and observations to determine soil and groundwater conditions.

EARTHWORK CALCULATIONS AND CROSS SECTIONS

The CONTRACTOR understands that any earthwork calculations, quantities or cross sections that have been furnished by the ENGINEER are for information only and are provided without any guarantee by the CLIENT or ENGINEER whatsoever as to their sufficiency or accuracy. CONTRACTOR warrants that he has performed his own subsurface investigations as necessary and his own calculations and cross sections to determine site soil conditions and earthwork volumes. The ENGINEER makes no representation or guarantee regarding earthwork quantities or that the earthwork for this project will balance due to the varying field conditions, changing soil types, allowable construction to tolerances and construction methods that are beyond the control of the ENGINEER.

CLEARING, GRUBBING AND TREE REMOVAL The site shall be cleared, grubbed, and trees and stumps removed where designated on the PLANS. Trees designated to remain shall be protected from

TOPSOIL STRIPPING

Upon completion of demolition, clearing, grubbing and tree removal, all topsoil shall be stripped from under all buildings and pavements areas, and other areas necessary to complete the work. Topsoil stripped shall be placed in stockpiles in locations as designated by the CLIENT.

Upon completion of roadway and/or parking lot improvements and installation of underground utilities a minimum of six inches (6") of topsoil shall be respread over all unpaved areas which have been disturbed by earthwork construction, except building pads and other designated areas, which shall be kept free from

Upon completion of topsoil respread, the CONTRACTOR shall apply seed and fertilizer to all respread areas in accordance with IDOT standards or as designated on landscape drawings and specifications provided by the CLIENT

Upon completion of topsoil respread, the CONTRACTOR shall install sod to all areas designated on the plans or as designated on the landscape drawings

and specifications provided by the CLIENT.

Upon completion of topsoil stripping, all excavation and embankments shall be completed as shown on the PLANS. All suitable excavated materials shall be nauled, placed (moisture conditioned if necessary) and compacted in the embankment areas. The CONTRACTOR shall include all dewatering, temporary ditching and culverts necessary to complete the excavation and embankment.

Specifically included in the scope of Excavation and Embankments is grading and shaping of all cut or fill areas including swales and ditches; handling of sewer spoil, etc., and all work required to provide positive drainage at the end of each working day and upon completion of a section.

The CONTRACTOR shall be responsible for the excavation of all swales and ditches and for the excavation or filling of the roads, building pads and parking lots within the work limits to lines & grades shown on the plans. He shall be responsible for obtaining compaction in accordance with the minimum values listed in the table below for all embankments unless more stringent values are listed in the soils report or are approved by the CLIENT, and to use any method approved by the CLIENT necessary to obtain this compaction (i.e., soil fabric or any undercutting that may be required).

	Percent				
	Compaction	action Pavement &			
Type Material	Standard	Floor Slabs	Grass Areas		
Sandy Soils	Modified Proctor	95%	90%		
Clavev Soils	Standard Proctor	95%	90%		

The CONTRACTOR shall notify the CLIENT if proper compaction cannot be obtained so that the CLIENT may determine what remedial measures may be

A soils testing firm employed by the CLIENT shall determine which soils are unsuitable. Materials in their natural state being defined as unsuitable that would be suitable material if moisture conditioned, shall be conditioned by the CONTRACTOR and used as suitable embankment material or hauled from the site. For purposes of definition, unsuitable material shall be as follows unless determined otherwise by the Soils Engineer:

- 1. Any soil whose optimum moisture content exceeds 25%.
- 2. Any cohesive soil with an unconfined compressive strength of 1.5 tons per square foot or less.
- 3. Any soil whose silt content exceeds 60% by weight.

4. Any soil whose maximum density is less than 100 pounds per cubic foot. 5. Any soil containing organic, deleterious, or hazardous material.

Upon completion of excavation and shaping of the water retention areas intended to maintain a permanent pool of water, all silt seams and granular or sandy soils shall be removed to a minimum depth of three feet below the subgrade and replaced with an impermeable clay liner, including adjacent to and under storm sewer inlets and outlets. It is the intent of these PLANS and SPECIFICATIONS that the CONTRACTOR shall prepare the lake bottoms, side slopes, and compaction thereof such that the lakes will maintain the proposed normal water level and that leakage does not exceed ½ inch per week Ditches and swales are to be excavated to the lines and grades indicated on the PLANS. All suitable materials excavated from the ditches shall be used in

construction of the embankments The CONTRACTOR shall notify the CLIENT immediately upon encountering groundwater during excavation. If in the opinion of the CLIENT or the JURISDICTIONAL GOVERNING ENTITY this condition necessitates the installation of perforated drain tile bedded in washed gravel or open storm sewer joints wrapped with fabric, the CONTRACTOR shall install the same.

During excavation and embankment, grades may be adjusted to achieve an overall site earthwork balance. The CONTRACTOR shall cooperate fully with the CLIENT in adjustment of grades, construction methods and placement of material to meet the above goals and shall immediately advise CLIENT if he

It is the intent of these PLANS that storm waters falling on the site be diverted into sedimentation / lake / detention basins during construction. The CONTRACTOR shall construct and maintain any temporary ditches or swales that are necessary to accomplish this prior to beginning mass excavation.

Suitable erosion control practices shall be maintained by the CONTRACTOR in accordance with Illinois Urban Manual and all applicable Soil Erosion and Sedimentation Control ordinances and the PLANS. UNDERCUTTING DURING EARTHWORK

If the subgrade cannot be dried adequately by discing as outlined above for placement of material to planned grades and if the CLIENT determines that the subgrade does not meet the standards set forth above, the CLIENT may require undercutting.

The following items may be required at the CLIENT's option, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY:

Geotextile fabric or approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY where proper compaction of embankments over existing soft soils is not possible. Geotextile fabric shall meet the material specifications of and shall be installed in accordance with the above standards. (2) EROSION CONTROL BLANKET

Erosion control blanket or approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY for the stabilization of disturbed areas. Erosion control blanket shall meet the material specifications of and shall be installed in accordance with the above standards, the Illinois Urban Manual and/or the details shown on the PLANS.

III.UNDERGROUND IMPROVEMENTS

A. GENERAL

All underground improvements shall be constructed and tested in accordance with the Standard Specifications for Water and Sewer Construction in Illinois and Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition. In the event of conflicting quidelines, the more restrictive shall govern. **SELECTED GRANULAR BACKFILL**

Selected Granular Backfill shall be required for all sewer and water main trenches lying under existing or proposed streets, driveways, parking lots and within 24" thereof, and where noted on PLANS. All material placed in such trenches shall be in accordance with the above standards.

MANHOLES, CATCH BASIN, INLETS & VALVE VAULTS

All Manholes, Catch Basins, Inlets, and Valve Vaults shall be constructed of reinforced precast concrete ring construction with tongue and groove joints in conformance with the latest revision of ASTM designation C-478. All joints between sections and frames (except sanitary manholes, see Section IIIB Manholes, below) shall be sealed with mastic type bituminous jointing compound. CONTRACTOR shall remove all excess mastic on inside of structure and butter joints with mortar. Manholes are to have offset cones except that no cone shall be used on storm manholes 6'-0" deep or less in which case a reinforced concrete flat top section shall be used, and Valve Vaults shall have concentric cones. Only concrete adjustment rings will be permitted where necessary and shall be limited to two adjustment rings totaling not more than 8" in height. All manholes and catch basin steps shall be copolymer polypropylene with continuous ½" steel reinforcement as manufactured by MA Industries, or approved equal.

*AUGER/BORING AND CASING - INTENTIONALLY OMITTED

*AUGER (OPEN BORE) - INTENTIONALLY OMITTED HORIZONTAL AND VERTICAL SEPARATION OF WATER AND SEWER MAINS

Horizontal and vertical separation of water and sewer mains shall be in accordance with Standard Specifications for Water and Sewer Construction in Illinois Section 41-2.01A and 41-2.01B and Standard Drawing 18, 19, 20, 21, 22, 23 and 24. STRUCTURE ADJUSTMENTS

Structures shall be adjusted to the finished grade as shown on PLANS.

B. SANITARY SEWERS AND APPURTENANCES

*SANITARY SEWER PIPE - INTENTIONALLY OMITTED

*MANHOLES - INTENTIONALLY OMITTED

*FOUNDATION, BEDDING AND HAUNCHING - INTENTIONALLY OMITTED

*TESTING - INTENTIONALLY OMITTED *SERVICES - INTENTIONALLY OMITTED

*RISERS - INTENTIONALLY OMITTED

*DROP MANHOLE CONNECTIONS - INTENTIONALLY OMITTED

*SANITARY SEWER FORCE MAIN - INTENTIONALLY OMITTED *TELEVISION INSPECTION - INTENTIONALLY OMITTED

*MISCELLANEOUS - INTENTIONALLY OMITTED

C. WATER MAINS AND APPURTENANCES

*WATER MAIN PIPE (3" AND LARGER) - INTENTIONALLY OMITTED *WATER VALVES - INTENTIONALLY OMITTED

*VALVE VAULTS - INTENTIONALLY OMITTED

*VALVE BOXES - INTENTIONALLY OMITTED *FIRE HYDRANTS - INTENTIONALLY OMITTED

*TAP, STOPS AND BOX - INTENTIONALLY OMITTED

*SMALL WATER SERVICES (2" DIAMETER OR LESS) - INTENTIONALLY OMITTED *DISINFECTION - INTENTIONALLY OMITTED

*PRESSURE TEST - INTENTIONALLY OMITTED *PRESSURE CONNECTION TO EXISTING WATER MAIN - INTENTIONALLY OMITTED

*DRY CONNECTION TO EXISTING WATER MAIN - INTENTIONALLY OMITTED *POLYETHYLENE ENCASEMENT (FOR DUCTILE IRON WATER MAIN ONLY) - INTENTIONALLY OMITTED

*FOUNDATION, BEDDING AND HAUNCHING *TRACER WIRE - INTENTIONALLY OMITTED

D. STORM SEWERS AND APPURTENANCES

*STORM SEWER PIPE

Storm sewer pipe shall conform to the following

(1) Reinforced concrete pipe minimum Class IV in conformance with the latest revision of ASTM designation C76 with C361 or C443 flexible gasket joints, except that bituminous mastic joints may be used in grass areas

(2) Polyvinyl Chloride (PVC) Pipe: ASTM D3034 (4-inch thru 15-inch) or ASTM F679 (18-inch thru 36-inch), rated SDR 35, continually marked with manufacturer's name, pipe size, cell classification, SDR rating. Joints shall be flexible elastomeric seals conforming to ASTM D3212.

Precast tees, bends, and manholes may be used if permitted by the JURISDICTIONAL GOVERNMENTAL ENTITY. Storm sewer shall include bedding and trench backfill.

MANHOLES, INLETS & CATCH BASINS

Manholes, Inlets and Catch Basins shall be constructed in conformance with Section IIIA Manholes, etc. above. The space between connecting pipes and the wall of the manhole shall be completely filled with non-shrink hydraulic cement mortar. Frames and lids shall be Neenah or approved equal unless specified otherwise on the PLANS. All frames and grates shall be provided such that the flange fully covers the opening plus 2" of the structure as a minimum. * Provide "Vane" Type frame & grate for all structures located in curb where gradient exceed 2.0%. Manholes shall include steps, frame & grate, bedding and

*FLARED END SECTION - INTENTIONALLY OMITTED *RIP RAP - INTENTIONALLY OMITTED

FOUNDATION, BEDDING AND HAUNCHING

Foundation, Bedding and Haunching shall be wet coarse aggregate or moist fine aggregate in accordance with the above standards and placed as shown on

*UNDERDRAINS - INTENTIONALLY OMITTED MISCELLANEOUS

(1) All existing field drainage tile or storm sewers encountered or damaged during construction shall either be restored to their original condition, properly rerouted and/or connected to the storm sewer system.

(2) Footing drains shall be connected to sump pumps or discharged directly into storm sewers. Footing drains or drainage tile shall not be connected to the sanitary sewer

CONNECTION FOR STORM SERVICE TO STORM MAIN Connections of storm sewer services to storm sewer mains should be made with manufactured tees when available. Availability of manufactured tees will be a

should be made in accordance with manufacturer's recommendations for all storm sewer other than concrete pipe. For concrete pipe connections without manufactured tees the storm sewer main shall be machine cored and the service sewer connected using non-shrink grout for the void between pipes. The service sewer shall be cut flush with the inside wall of the sewer main and not extend into the inside flow area of the main or otherwise impede flow. IV. ROADWAY AND PARKING LOT IMPROVEMENTS

payment will be defined as detailed in the contract documents between the CLIENT and the CONTRACTOR. Supplementing the Standard Specifications shall

be the applicable sections of the latest editions of the "Supplemental Specifications and Recurring Special Provisions", the "Manual on Uniform Traffic Control

function of the storm sewer material and pipe diameter size of the service sewer and main. If manufactured tees are not reasonably available, connections

Work shall be completed in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition (hereinafter referred to collectively as the "Standard Specifications") except as modified below and except that

Devices for Streets and Highways" and the Illinois Supplement thereto, (hereinafter referred to collectively as the "MUTCD"). Any references to "ENGINEER" in the "Standard Specifications" shall be interpreted as the CLIENT or CLIENT's Construction Representative SUBGRADE PREPARATION

Aggregate Base Course Type B shall be limited to CA-6 or CA-10 gradation. Aggregate base courses shall be proof rolled as outlined below.

The CONTRACTOR shall be responsible for all subgrade compaction and preparation to the lines and grades shown on the plans.

STANDARDS

The CONTRACTOR shall proof roll the subgrade with either a 2-axle truck loaded to 27,000 lbs. Or a 3-axle truck loaded to 45,000 lbs. or as specified by the JURISDICTIONAL GOVERNING ENTITY. The CLIENT and JURISDICTIONAL GOVERNING ENTITY shall observe and approve the proof rolling of the subgrade and the base course. Proof rolling tolerances shall be a maximum deflection of 1" for the subgrade and ½" for the base course. The above criteria is

deficiency, the subgrade and/or base course shall be repaired and retested before proceeding with the pavement construction Pavement subgrade material shall not be removed, placed or disturbed after proof roll testing has been completed prior to the pavement construction. Additional testing will be required if the pavement subgrade is disturbed and/or material is removed from or placed on the pavement subgrade after proof

intended as a maximum deflection standard and that proof rolling of a majority of the area will have less deflection than specified above. In any case of

Trucks or heavy equipment shall not travel on any pavement subgrade after final testing prior to pavement construction.

CONTRACTOR shall be aware of jurisdictional noise ordinances and holiday restrictions for scheduling purposes

*HOT-MIX ASPHALT BASE COURSE - INTENTIONALLY OMITTED

HOT-MIX ASPHALT BINDER AND SURFACE COURSE HMA binder and surface courses, shall be constructed to the compacted thickness as shown on the PLANS. The base course shall be cleaned and primed in accordance with the JURISDICTIONAL GOVERNING ENTITY. The surface course shall be placed after the base and courses have gone through one winter season, or as directed by the CLIENT. Before applying the surface course, the binder course shall be thoroughly cleaned and primed in accordance with the JURISDICTIONAL GOVERNING ENTITY. Prior to the placement of the surface course, the JURISDICTIONAL GOVERNING ENTITY shall examine the completed pavement, including curb and gutter, and all failures shall be corrected by the CONTRACTOR.

CONCRETE PAVEMENTS Concrete pavements shall be constructed in accordance with American Concrete Institute Standard ACI330R-08 and as shown on the PLANS.

Slabs and driveway aprons shall be constructed with 6" x 6" - W1.4 x W1.4 welded wire fabric positioned on steel chair supports. Placing fabric during the concrete pouring operation will not be allowed. Sawing of joints shall commence as soon as the concrete has cured and hardened sufficiently to permit sawing without excessive raveling, but no later than eight hours after the concrete has been placed. All joints shall be sawed to a depth equal to 1/3 of the pavement thickness before uncontrolled shrinkage cracking take place. If necessary, the sawing operation shall occur during the day or at night, regardless of weekends, holidays or weather conditions. The

The CONTRACTOR is responsible to guard fresh concrete until it sets and hardens sufficiently to prevent people from writing, walking, riding bicycles or otherwise permanently marking, defacing or causing depressions of any type in the concrete. Any concrete so marked will be removed and replaced by the

CONTRACTOR at the CONTRACTOR's expense. The CONTRACTOR shall protect the pavement against all traffic, including that of their own employees or other workers, until test specimens have attained the specified strength.

SIDEWALKS

Concrete sidewalks shall be constructed to width and thickness as shown on the PLANS. Sidewalks shall be thickened to a minimum of 6" at all driveways. All sidewalks shall be IDOT Class SI concrete, on aggregate base as shown on the detail. A 3/4" expansion joint shall be provided when meeting existing sidewalk. **CURB AND GUTTER**

Curb and gutter shall be as per the detail shown on the PLANS, which shall include compacted aggregate base course under the curb and gutter. All contraction and expansion joints shall be constructed as per the detail.

CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

*PAVEMENT MARKING - THERMOPLASTIC - INTENTIONALLY OMITTED

documentation that specifications were met.

The CONTRACTOR shall saw cut and remove the existing concrete curb where shown on the PLANS and install a curb of similar cross section and pavement to that removed (or depressed curb and gutter if shown on the PLANS). Upon completion of the curb and gutter any voids between the existing pavement and the new curb shall be filled with concrete to within 2" of the final surface, which is to be filled with bituminous pavement. The area behind the curb shall be filled and compacted with embankment material within 6" of the top of the new curb. The CONTRACTOR shall then restore the remaining 6" to its original condition (i.e., sod, gravel, topsoil). Where proposed curb connects to an existing curb, the existing curb shall be saw cut and then two 18" long x 3/4" (#6) dowel bars shall be drilled and installed 9" into the existing and proposed curb. Bars shall be installed in a location similar to the expansion joint in the

The road contractor shall be responsible for making final adjustments and the setting on a bituminous mastic jointing compound all castings located in the roadway, sidewalks, and parking areas prior to construction of any curbing, sidewalk, or final surface. Any structures that need to be lowered, or raised in excess of 4" shall be completed and the work backcharged against the underground contractor. This Contractor shall also be responsible for cleaning all of

PAVEMENT MARKING - PAINT The CONTRACTOR shall furnish and apply painted marking lines, letters & symbols of the patterns, sizes and colors where shown on the PLANS. Paint pavement marking shall be applied in accordance with the IDOT Standard Specifications.

QUALITY CONTROL The CONTRACTOR shall provide all testing necessary to ensure improvements are in accordance with the project specifications and provide testing

the above structures immediately upon completion of his phase of work. This work shall be incidental to the cost of the pavement.

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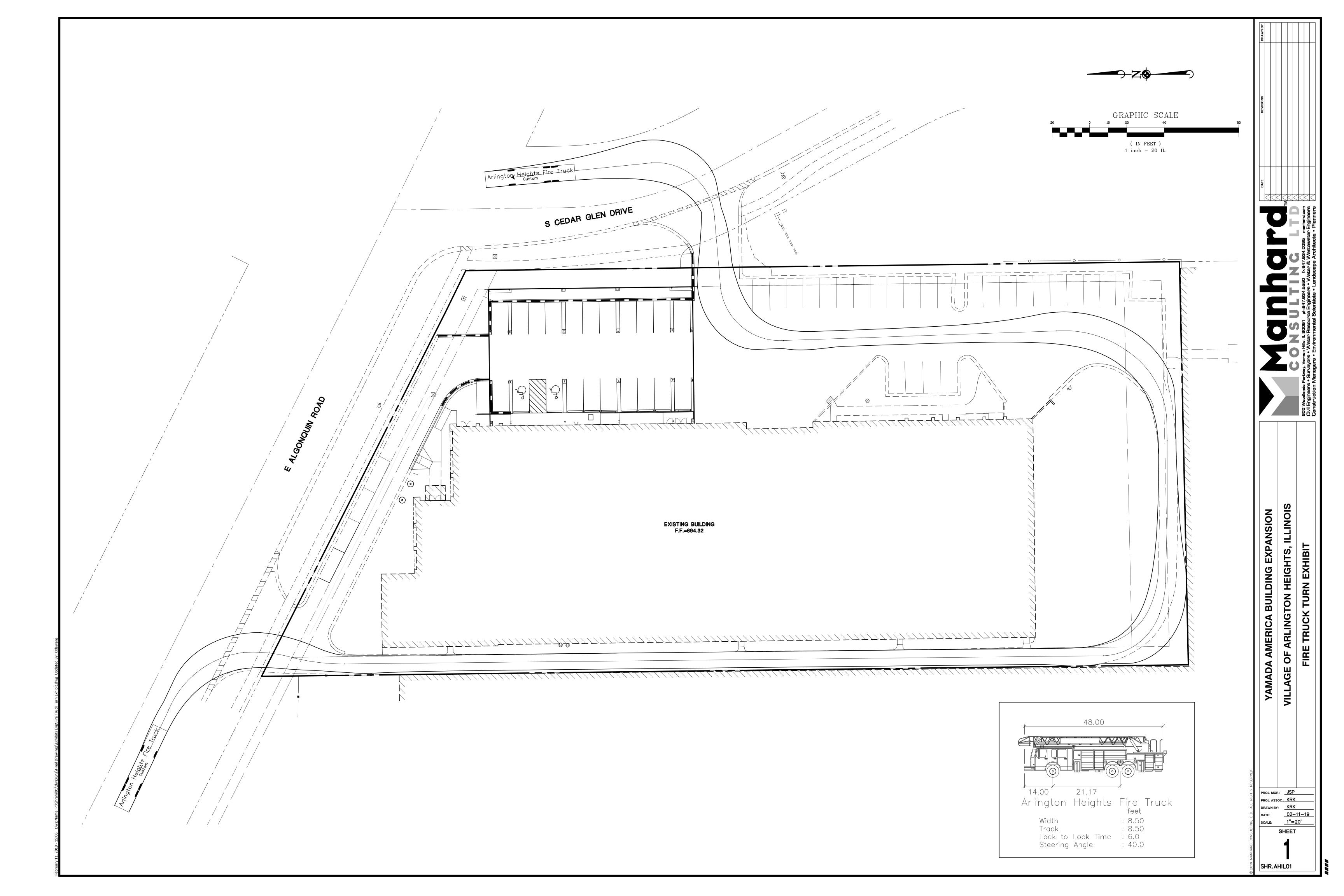
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AG

PROJ. ASSOC.: KRK DRAWN BY: <u>N.T.S.</u>

SHEET

PROJ. MGR.: JSF 01-15-19



BOUNDARY AND TOPOGRAPHIC SURVEY

LEGAL DESCRIPTION

LOT 1 IN ALGONQUIN ROAD COMMERCE CENTER RESUBDIVISION, BEING A RESUBDIVISION OF LOT 4 IN OWNER'S SUBDIVISION OF THE WEST 15 RODS OF THE SOUTHEAST QUARTER AND THE EAST 46/80THS(AS MEASURED ON THE NORTH AND SOUTH LINES) OF THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 41 NORTH, RANGE 11 ALSO THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 41, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN ACCORDING TO THE PLAT THEREOF RECORDED JUNE 16, 1982 AS DOCUMENT NUMBER 26261911 IN COOK COUNTY, ILLINOIS.

ABBREVIATIONS

RCP = REINFORCED CONCRETE PIPE CMP = CORRUGATED METAL PIPE

DIP = DUCTILE IRON PIPE CPP = CORRUGATED PLASTIC PIPE

FOW = FULL OF WATERCES = CONCRETE END SECTION

MES = METAL END SECTIONPES = PLASTIC END SECTION

TP = TOP OF PIPE FF = FINISHED FLOOR

TF = TOP OF FOUNDATION

LEGEND

= EX. HANDHOLE

= EX. TELEPHONE MANHOLE

= EX. TELEPHONE HANDHOLE

= EX. TELEPHONE PEDESTAL

= EX. TELEPHONE MARKER

= EX. TELEVISION MANHOLE

= EX. TELEVISION PEDESTAL

= EX. FIBER OPTIC MANHOLE

= EX. FIBER OPTIC HANDHOLE

= EX. PETROLEUM MARKER

= EX. UTILITY POLE WITH LIGHT

= EX. LIGHT STANDARD

= EX. STREET LIGHT

= EX. BOLLARD LIGHT

= EX. UTILITY POLE

= EX. GUY WIRE

= EX. SIGN

= EX. MAILBOX

= EX. BOLLARD

= EX. FLAG POLE

= EX. TELEVISION LINE MARKER

= EX. FIBER OPTIC LINE MARKER

= EX. FIRE SIAMESE/ALARM BOX

= EX. AIR CONDITIONING UNIT

= EX. HANDICAPPED PARKING

EX. BITUMINOUS PAVEMENT

= EX. CONCRETE

= EX. AGGREGATE

= EX. TEST/SOIL BORING

= EX. SPOT ELEVATION

= EX. BUSHES

= EX. PROPERTY LINE

- = EX. CHAIN-LINK FENCE

—■— = EX. WROUGHT IRON FENCE

= EX. CONCRETE CURB & GUTTER

= EX. SIDEWALK

= EX. DEPRESSED CURB

---- = EX. STORM LINE

--- = EX. SANITARY LINE

— FM— — = EX. FORCEMAIN LINE

---- E ----- = EX. UNDERGROUND ELECTRIC

 $-\cdot - \tau = EX$. UNDERGROUND TELEPHONE

 $-\cdot - G - \cdot - = EX.$ UNDERGROUND GAS

—·—OH—·— = EX. OVERHEAD WIRES

= EX. TREE/BRUSH LINE

 $780 \longrightarrow = EX. 1 FOOT CONTOURS$

 $-\cdot$ —LA—·— = EX. LANDSCAPE AREA

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 $-\cdot - \text{TV} - \cdot - = \text{EX. UNDERGROUND CABLE TELEVISION}$

= EX. STORM INLET (INL)

= EX. STORM SERVICE POST

= EX. STORM CLEANOUT

= EX. SUMP CONNECTION

= EX. SANITARY CLEANOUT

= EX. VALVE VAULT (V.V.)

= EX. VALVE BOX

= EX. WATER METER

= EX. BUFFALO BOX = EX. WATER MARKER

= EX. GAS METER

= EX. GAS MANHOLE

= EX. JULIE GAS MARKER

= EX. ELECTRICAL METER

= EX. ELECTRICAL MANHOLE

= EX. ELECTRIC HANDHOLE

= EX. ELECTRIC PEDESTAL/BOX

= EX. JULIE ELECTRIC MARKER

= EX. ELECTRIC TRANSFORMER

= EX. TRAFFIC SIGNAL MANHOLE

= EX. TRAFFIC SIGNAL HANDHOLE

= EX. TRAFFIC SIGNAL CONTROL BOX

= EX. RIP-RAP

= EX. STORM CATCH BASIN (CB)

= EX. FLARED END SECTION (FES)

= EX. SANITARY MANHOLE (SMH)

= EX. FIRE HYDRANT/AUX. VALVE

= EX. SANITARY SERVICE POST

PROPERTY AREA

94,875 SQ. FT. (2.178 ACRES)

PIN'S

08-15-303-013

BENCHMARKS

REFERENCE BENCHMARK: (NGS PID: DM3900) BRASS SURVEY DISK SET IN THE EAST ABUTMENT ON THE

SOUTH SIDE OF A LARGE BRIDGE ON GOLF ROAD OVER SALT CREEK MORE PARTICULARLY LOCATED 1744 FEET WEST OF THE CENTERLINE OF SOUTH NEW WILKE ROAD AND 48' SOUTH OF THE CENTERLINE OF GOLF ROAD .

ELEVATION=695.85

DATUM=NAVD88-GEOID 12B

SITE BENCHMARK#1: NORTH FLANGE BOLT ON HYDRANT LOCATED ON THE WEST SIDE OF SOUTH CEDAR GLEN DRIVE MORE PARTICULARLY LOCATED 20 FEET WEST OF THE CENTERLINE OF CEDAR GLEN DRIVE AND 177 FEET SOUTH OF THE CENTERLINE OF EAST ALGONQUIN ROAD.

ELEVATION= 694.49 DATUM=NAVD88-GEOID 12B

SITE BENCHMARK#2: NORTH FLANGE BOLT ON HYDRANT LOCATED ON THE SOUTH SIDE OF EAST ALGONQUIN ROAD MORE PARTICULARLY LOCATED 209 FEET WEST OF THE CENTERLINE OF SOUTH EMBERS LANE AND 50 FEET SOUTH OF THE CENTERLINE OF EAST ALGONQUIN ROAD.

ELEVATION= 697.02 DATUM=NAVD88-GEOID 12B TOPOGRAPHIC FIELD WORK COMPLETED ON 05/16/2018

BASIS OF BEARINGS

COORDINATES AND BEARINGS ARE BASED UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83), ADJUSTED TO GROUND VALUES, AS ESTABLISHED BY A REAL-TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) UTILIZING THE TRIMBLE VRS NOW NETWORK.

SURVEY PREPARED FOR

SHERMAN CONSTRUCTION LLC 62 E. SURREY LANE BARRINGTON HILLS, IL 60010

SURVEYOR'S NOTES

1. DISTANCES ARE MARKED IN FEET AND DECIMAL PLACES THEREOF. NO DIMENSION SHALL BE ASSUMED BY SCALE MEASUREMENT HEREON. DISTANCES AND/OR BEARINGS SHOWN IN PARENTHESIS (456.67') ARE RECORD OR DEED VALUES, NOT FIELD MEASURED.

AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE SURVEYOR. 3. THIS SURVEY IS SUBJECT TO MATTERS OF TITLE, WHICH MAY BE REVEALED BY A

2. COMPARE THIS PLAT, BENCHMARKS AND ALL SURVEY MONUMENTS BEFORE BUILDING,

CURRENT TITLE REPORT. EASEMENTS, SETBACKS AND OTHER RESTRICTIONS WHICH MAY BE FOUND IN A CURRENT TITLE REPORT, LOCAL ORDINANCES, DEEDS OR OTHER INSTRUMENTS OF RECORD HAVE NOT BEEN SHOWN.

4. ONLY THE IMPROVEMENTS WHICH WERE VISIBLE FROM ABOVE GROUND AT THE TIME OF SURVEY AND THROUGH A NORMAL SEARCH AND WALK THROUGH OF THE SITE ARE SHOWN ON THE FACE OF THIS PLAT. LAWN SPRINKLER SYSTEMS, IF ANY, ARE NOT SHOWN ON THIS

5. THIS SURVEY MAY NOT REFLECT ALL UTILITIES, OR IMPROVEMENTS, IF SUCH ITEMS ARE HIDDEN BY LANDSCAPING OR ARE COVERED BY LEAVES OR OTHER OBSTRUCTIONS. THERE MAY BE ADDITIONAL UTILITIES OR IMPROVEMENTS THAT HAVE NOT BEEN SHOWN.

6. UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, STORM AND SANITARY SEWERS, WATER MAINS, TELEPHONE AND ELECTRIC CABLES OR CONDUITS, GAS MAINS AND ALL SERVICE LINES SHOWN HEREON ARE BASED ON ACTUAL OBSERVED LOCATION AT AN OPEN MANHOLE. THE EXACT LOCATION MAY BE DIFFERENT FROM THE LOCATION SHOWN

7. OTHER THAN VISIBLE OBSERVATIONS NOTED HEREON, THIS SURVEY MAKES NO STATEMENT REGARDING THE ACTUAL PRESENCE OR ABSENCE OF ANY SERVICE OR UTILITY LINE. CONTROLLED UNDERGROUND EXPLORATORY EFFORT TOGETHER WITH "J.U.L.I.E." MARKINGS IS RECOMMENDED TO DETERMINE THE FULL EXTENT OF UNDERGROUND SERVICE AND UTILITY LINES. CONTACT J.U.L.I.E. AT 1-800-892-0123.

8. MUNICIPAL ZONING SETBACKS ARE SHOWN PER ARLINGTON HEIGHTS MUNICIPAL CODE LAST REVISED APRIL 16, 2018.

9. THIS SURVEY WAS PREPARED FOR SHERMAN CONSTRUCTION LLC BASED ON A FIELD SURVEY COMPLETED ON MAY 16, 2018 AND JANUARY 16, 2019. EASEMENTS HAVE BEEN SHOWN BASED ON ALGONQUIN ROAD COMMERCE CENTER RESUBDIVISION.

10. AT THE CLIENTS REQUEST MISSING LOT CORNERS WERE NOT SET.

11. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY AND TOPOGRAPHIC SURVEY. MANHARD CONSULTING, LTD. IS A PROFESSIONAL DESIGN FIRM, REGISTRATION NUMBER 184003350, EXPIRES APRIL 30, 2019.

SURVEYOR'S CERTIFICATE

STATE OF ILLINOIS) SS COUNTY OF LAKE)

WE. MANHARD CONSULTING LTD.. DO HEREBY DECLARE THAT WE HAVE SURVEYED THE HEREON DESCRIBED PROPERTY AND THAT THE PLAT HEREON DRAWN IS A CORRECT REPRESENTATION OF SAID SURVEY.

GIVEN UNDER MY HAND AND SEAL THIS 23RD DAY OF JANUARY, A.D., 2019.

ILLINOIS PROFESSIONAL LAND SURVEYS LICENSE EXPIRES: NOVEMBER 30, 2020

DESIGN FIRM PROFESSIONAL REGISTRATION NO. 184003350 EXPIRES APRIL 30, 2019



SHRAHIL01

05/16/18 1" = 20'

955 E. ALGONQUIN ROAD

VILLAGE OF ARLINGTON HEIGHTS, ILLINOIS

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