

GENERAL NOTES

1. EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY BY: V3 COMPANIES, LTD. 7325 JAMES AVENUE WOODRIDGE, IL 60077
- COPIES OF THE SURVEY ARE AVAILABLE FROM THE SURVEYOR. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.
2. ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN.
3. CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL AND STARTING WORK.
4. ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.
5. THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS PRIOR TO STARTING WORK. THE CONTRACTOR, BY USING THESE PLANS FOR THEIR WORK, AGREE TO HOLD HARMLESS V3 COMPANIES, LTD., THE MUNICIPALITY, THEIR EMPLOYEES AND AGENTS AND THE OWNER WHILE ACTING WITHIN THE SCOPE OF THEIR DUTIES FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTORS PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, HIS AGENTS, THE ENGINEER, HIS EMPLOYEES AND AGENTS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY, TO THE SATISFACTION OF THE OWNER OF THE ROADWAY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
8. 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:
- a. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS PREPARED BY IDOT, LATEST EDITION.
- b. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION.
- c. ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS, AS PUBLISHED BY THE IEPA, LATEST EDITION.
- d. THE LATEST EDITIONS OF THE MUNICIPAL CODE AND STANDARDS OF THE VILLAGE OF ARLINGTON HEIGHTS.
- e. THE NATIONAL ELECTRIC CODE.
- f. THE ILLINOIS ACCESSIBILITY CODE.
9. CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) REQUIREMENTS AS PUBLISHED BY THE IEPA, TESTING OF SOILS BEING EXPORTED FROM THE SITE AND APPROPRIATE DISPOSAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IN THE EVENT OF CONFLICTING SPECIFICATIONS WITH REGARD TO SITE WORK ISSUES DESIGNED BY THE ENGINEER, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
9. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO COMMENCING ANY WORK AND FOR ANY NEW CONSTRUCTION REQUIRING INSPECTION.
10. ALL TREES TO BE SAVED SHALL BE IDENTIFIED PRIOR TO CONSTRUCTION AND SHALL BE PROTECTED PER IDOT STANDARDS. THE RIGHT-OF-WAY LINE AND LIMITS OF THE CONTRACTOR'S OPERATIONS SHALL BE CLEARLY DEFINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL TREES IDENTIFIED TO REMAIN SHALL BE PROTECTED FROM DAMAGE INCLUDING TRUNKS, BRANCHES AND ROOTS, NO EXCAVATING, FILLING OR GRADING IS TO BE DONE NEAR OR WITHIN THE LIMITS OF TREES UNLESS OTHERWISE INDICATED. SEE LANDSCAPE PLANS FOR INFORMATION ON LANDSCAPE AND TREE PROTECTION, PRESERVATION, AND REMOVAL.
11. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT ACCUMULATION OF MUD OR SOIL ON PUBLIC THOROUGHFARES. AT THE END OF EACH DAY AND AS OFTEN AS OTHERWISE NECESSARY THE CONTRACTOR SHALL CLEAN UP ALL MUD OR SOIL WHICH HAS BEEN TRACKED ONTO PUBLIC STREETS AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND AS DETAILED IN THE STORM WATER POLLUTION PREVENTION PLAN.
12. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS WHERE HIGHER OPERATIONS ARE REQUIRED. ALL FIELD TILE REPAIRS SHALL BE ADJACENT PROPERTY IN ACCORDANCE WITH THE VILLAGE OF ARLINGTON HEIGHTS MUNICIPAL CODE AND IDOT REQUIREMENTS.
13. NO HOLES ARE TO BE LEFT OPEN IN THE PAVEMENT OR PARWAY OVER A HOLIDAY, WEEKEND OR AFTER 5:00 P.M. ON THE DAY PRECEDING A HOLIDAY OR A WEEKEND.
14. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL.
15. REMOVED PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AS PART OF THE BASE CONTRACT.
16. NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.
17. FOR REGULATED UTILITY LOCATIONS, THE CONTRACTOR SHALL CONTACT THE JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS, JULIE, AT 1-800-892-0123. LOCAL GOVERNMENT AGENCIES SHOULD BE CONTACTED BY THE CONTRACTOR FOR LOCATION OF ALL NONREGULATED UTILITY LOCATIONS. CALL FOR LOCATES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION.
18. BEFORE EXCAVATING OVER OR ADJACENT TO ANY EXISTING UTILITIES, CONTRACTOR SHALL NOTIFY THE OWNER OF SUCH UTILITIES TO ENSURE THAT PROTECTIVE WORK WILL BE COORDINATED AND PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER OF THE UTILITY INVOLVED. IF ANY EXISTING SERVICE LINES, UTILITIES AND UTILITY STRUCTURES WHICH ARE TO REMAIN IN SERVICE ARE UNCOVERED OR ENCOUNTERED DURING THIS OPERATION, THEY SHALL BE SAFEGUARDED, PROTECTED FROM DAMAGE AND SUPPORTED IF NECESSARY.
19. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AS DETAILED IN THE STORM WATER POLLUTION PREVENTION PLAN.
21. ALL CURB RADIi REFER TO BACK OF CURB.
22. ANY AREAS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN CONFORMANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND SHALL BE INCIDENTAL TO THE CONTRACT.
23. STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGED, SHALL BE REPLACED PROMPTLY IN CONFORMANCE WITH THE MUNICIPALITY OR IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
24. PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED PAVING (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL, AS INDICATED ON DRAWINGS.

25. CAD FILES ARE AVAILABLE FOR CONSTRUCTION LAYOUT UPON REQUEST.
26. BACKFILL SHALL BE PLACED NEXT TO THE CURB AS SOON AS PERMISSIBLE AFTER CONSTRUCTION TO PREVENT SCOURING AND UNDERCUTTING BY STORM WATER RUNOFF.
27. BUTT JOINTS SHALL BE PROVIDED WHEREVER NEW PAVEMENT ADJUTS EXISTING PAVEMENT. ALL BUTT JOINTS SHALL BE CONSTRUCTED BY MILLING AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE BITUMINOUS SURFACE COURSE.
28. WHEN AN EXISTING DRAINAGE ROUTE, EITHER A STORM SEWER OR WATERWAY, IS INTERRUPTED DUE TO CONSTRUCTION, THE DRAINAGE ROUTE SHALL BE REESTABLISHED TO ORIGINAL CONDITIONS BY THE END OF THE SAME WORK DAY. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
29. PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS. PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS.
30. FINAL ADJUSTMENT OF FIRE HYDRANTS, VALVE VAULTS AND MANHOLES TO FINISHED GRADE ARE INCIDENTAL TO THEIR COST.
31. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT ARE TO BE ADJUSTED OR RECONSTRUCTED BY THE CONTRACTOR TO THE UTILITY OWNERS SATISFACTION. ADJUSTMENTS OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
32. ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND DETAILS OF THE PLANS FOR ALL UTILITY LINES (OR AS OTHERWISE NOTED ON PLANS). BACKFILL SHALL BE PLACED AND COMPACTED PER THE MUNICIPALITY AND IDOT SPECIFICATIONS. COST OF BACKFILL IS TO BE CONSIDERED INCIDENTAL TO THE UTILITY WORK.
34. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. PRIOR TO DEMOBILIZATION, ALL WORK SHALL BE CLEANED AND INSPECTED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
36. THE GENERAL CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE CABLE TV, PHONE, ELECTRIC, GAS AND IRRIGATION SERVICES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SITE LAYOUTS FOR THESE UTILITIES AND SHALL COORDINATE AND PROVIDE CONDUIT CROSSINGS AS REQUIRED. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ANY CONFLICTS IN UTILITIES SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
37. BAND-SEAL CONNECTORS OR EQUIVALENT SHALL BE USED TO JOIN PIPES OF DISSIMILAR MATERIAL.
38. CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL CONSTRUCTION IN CONFORMANCE WITH ALL MUNICIPAL AND CLIENT REQUIREMENTS FOR USE IN PREPARING RECORD DRAWINGS.
39. THE SUBCONTRACTOR SHALL INSTALL A 2"x4"x6" POST ADJACENT TO THE TERMINUS OF UTILITY MAINS AND SERVICE LINES. POSTS SHALL BE MARKED IN ACCORDANCE WITH THE VILLAGE STANDARDS.
40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ANY EXCAVATION, ANY DEWATERING REQUIRED SHALL BE INCIDENTAL TO THE CONTRACT.
41. COPIES OF SOILS INVESTIGATION REPORTS MAY BE OBTAINED FROM THE OWNER. ANY BRACING, SHEETING OR SPECIAL CONSTRUCTION METHODS REQUIRED IN ORDER TO INSTALL THE PROPOSED IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT. ANY ADDITIONAL SOILS DATA NEEDED TO CONFIRM THE CONTRACTOR'S OPINIONS OF THE SUBSOIL CONDITIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN AUTHORIZATION TO ACCESS THE SITE TO CONDUCT A SUPPLEMENTAL SOILS INVESTIGATION.
42. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER OR EXTENDED TO OUTLET TO A PROPOSED DRAINAGE WAY AS DETERMINED BY THE ENGINEER. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL, TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATIONAL CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE FOR ON-SITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE SUBCONTRACTOR AND SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT. ALL FIELD TILE REPAIRS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
43. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, DETAILED SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HISHER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

SPECIFICATIONS

EARTHWORK

1. THE GRADING OPERATIONS ARE TO BE INSPECTED BY A THIRD PARTY SOILS ENGINEER. THE CONTRACTOR'S REPRESENTATIVE MUST BE NOTIFIED PRIOR TO ANY UNSUITABLE SOIL REMOVAL, AND MUST APPROVE, IN WRITING, ANY REMEDIATION. BOTH THE CONTRACTOR AND SOILS ENGINEER MUST BE PRESENT DURING REMEDIATION.
2. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADE. A MINIMUM OF 6 INCHES OF TOPSOIL IS TO BE PLACED BEFORE FINISH GRADE ELEVATIONS ARE ACHIEVED, UNLESS OTHERWISE NOTED. AREAS IN DETENTION FACILITIES NOTED TO WORK WITHIN A TRENCH AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER, AND
3. THE SURFACE VEGETATION, TOPSOIL, TRANSITIONAL MATERIAL, AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHALL BE STRIPPED FROM ALL AREAS TO RECEIVE STRUCTURAL FILL. IF THE UNDERLYING SUBGRADE IS FOUND TO BE UNSUITABLE FOR PROPER COMPACTION, CONTRACTOR TO CONSULT WITH SOILS ENGINEER PRIOR TO REMEDIATION.
4. EMBANKMENT MATERIAL WITHIN ROADWAY, DRIVEWAY, BUILDING AND OTHER STRUCTURAL CLAY FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D1557 (MODIFIED PROCTOR METHOD), OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER, THE AUTHORITY HAVING JURISDICTION, AND THE CONTRACTOR.
5. ALL PAVEMENT SUBGRADE SHALL MEET THE REQUIREMENTS DETERMINED BY THE UTILITY OWNER. IF AREAS OF PAVEMENT SANITARY SEWERS OR SEWER SERVICE CONNECTIONS, THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN FEET HORIZONTALLY OR ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
6. COMPLETED GRADING (FINISHED FINE GRADE) FOR PROPOSED PAVEMENT SURFACE AREAS, BUILDING PAD, AND OPEN SPACE AREAS SHALL BE WITHIN A 0.1" TOLERANCE OF DESIRED SUBGRADE.
7. THE SUBGRADE FOR PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROVIDED BY THE SUBCONTRACTOR IN THE PRESENCE OF THE JURISDICTIONAL INSPECTOR, CONTRACTOR, AND SOILS ENGINEER.
8. BORROW PIT LOCATION(S) SHALL BE APPROVED BY THE OWNER, ENGINEER, AND GEOTECHNICAL ENGINEER.

SANITARY SEWER

1. SANITARY SEWERS SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS:
- A. POLYVINYL CHLORIDE PLASTIC SEWER PIPE (PVC) CONFORMING TO ASTM D2241 WITH AN SDR OF 26 WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM D3139.
- B. DUCTILE IRON PIPE, CLASS 52, CONFORMING TO ANSI A21.51 (AWWA C-151) WITH JOINTS CONFORMING TO ANSI 21-11 (AWWA C-111).
2. MANHOLES SHALL BE PRECAST CONCRETE STRUCTURES, WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION DETAIL SHEETS). LIDS SHALL BE IMPRINTED "SEWER".
3. ALL SANITARY SEWER SHALL BE TESTED FOR LEAKAGE AND DEFLECTION IN ACCORDANCE WITH SECTION 31-1.12 AND 31-1.13 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
4. ALL SANITARY MANHOLES SHALL BE TESTED FOR WATER TIGHTNESS IN ACCORDANCE WITH ASTM C369 OR ASTM C1244.
5. CONTRACTOR SHALL VERIFY THAT THE TESTING METHODS DESIGNATED HEREIN ARE ACCEPTABLE TO LOCAL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT. IF THE LOCAL JURISDICTION HAS MORE STRINGENT TESTING REQUIREMENTS THE CONTRACTOR SHALL ADHERE TO THE MORE STRINGENT REQUIREMENTS. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.

WATERMAIN DISTRIBUTION SYSTEM

1. WATER MAIN SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIAL, AS SPECIFIED ON THE PLANS:
- A. DUCTILE IRON PIPE, CLASS 52 CONFORMING TO ANSI A21.51, AWWA C-151 WITH CEMENT LINING CONFORMING TO ANSI A21.4 AWWA C-104 AND PUSH-ON JOINTS CONFORMING TO ANSI A21.11, AWWA C-111. FITTINGS SHALL COMPLY WITH ANSI A21.10, AWWA C110. ALL DUCTILE IRON PIPE SHALL BE WELDED IN POLYETHYLENE IN ACCORDANCE WITH AWWA C105.
- C. WATER SERVICE LINES SHALL BE CONSTRUCTED OF CLASS K COPPER.
2. MINIMUM COVER OVER WATER MAIN SHALL BE 5'-0" FROM FINISHED GRADE TO TOP OF PIPE.
3. VALVE VAULTS SHALL BE USED AT ALL VALVE LOCATIONS WHERE WATER MAIN IS 8" DIAMETER OR LARGER. VAULTS SHALL BE PRECAST CONCRETE STRUCTURES, WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION DETAIL SHEETS). LIDS SHALL BE IMPRINTED "WATER".
4. THRUST BLOCKING OR RESTRAINED JOINTS SHALL BE INSTALLED ON WATER MAINS AT ALL BENDS, TEES, ELBOWS, ETC. AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. COST OF SAME SHALL BE INCIDENTAL TO THE UNIT PRICE FOR PIPE INSTALLED.
5. WATER MAIN FITTINGS (BENDS, ELBOWS, TEES, INCREASES, REDUCERS, ETC.) MAY OR MAY NOT BE SPECIFICALLY REFERENCED ON THE CONSTRUCTION PLANS. THEY ARE TO BE CONSIDERED AS INCIDENTAL AND INCLUDED IN THE LINEAL FOOTAGE COST OF THE WATER MAIN.
6. ALL WATER LINES ARE TO BE PRESSURE TESTED AND CHLORINATED PER THE REQUIREMENTS OF THE MUNICIPALITY AND THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.

STORM SEWER

1. STORM SEWERS SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS:
- A. REINFORCED CONCRETE PIPE (RCP) IN CONFORMANCE WITH IDOT STANDARD SPECIFICATIONS DETERMINATION FOR PIPE CLASS, AND CONFORMING TO ASTM C76. ALL STORM SEWER SHALL HAVE GASKETED JOINTS CONFORMING TO ASTM C-361, UNLESS OTHERWISE NOTED.
- B. POLYVINYL CHLORIDE PLASTIC SEWER PIPE (PVC) CONFORMING TO ASTM D3034 WITH ELASTOMERIC GASKETED JOINTS CONFORMING TO ASTM D3212.
- C. HIGH DENSITY POLYETHYLENE PIPE, HDPE, CONFORMING TO ASTM D3350 WITH ELASTOMERIC JOINTS CONFORMING TO ASTM D3212.
- D. DUCTILE IRON PIPE, CLASS 52, CONFORMING TO ANSI A21.51 (AWWA C151) WITH JOINTS CONFORMING TO ANSI 21-11 (AWWA C-111).
2. STORM SEWER STRUCTURES SHALL BE PRECAST OF THE TYPE AND DIAMETER AS SPECIFIED IN THE PLANS WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION DETAIL). LIDS SHALL BE IMPRINTED "STORM".

IEPA CROSSING REQUIREMENTS

HORIZONTAL SEPARATION:

- A. WATERMANS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICE CONNECTION.
- B. WATERMANS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:
- I. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET.
- II. THE WATERMAIN IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER, AND
- III. THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
- I. BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE MEETING THE REQUIREMENTS OF SECTION 603.111 WHEN IT IS IMPOSSIBLE TO MEET (A) OR (B) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

VERTICAL SEPARATION:

- A. A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER, WHENEVER WATERMANS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN FEET HORIZONTALLY OR ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
- B. BOTH THE WATERMAIN AND SEWER SHALL BE CONSTRUCTED OF SLP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE MEETING REQUIREMENTS OF SECTION 603.111 WHEN:
- I. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (A) ABOVE; OR
- II. THE WATERMAIN PASSES UNDER A SEWER DRAIN.
- C. A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATERMAIN.
- D. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.

PAVING

1. BASE COURSE SHALL BE AGGREGATE BASE COURSE CONFORMING TO IDOT STANDARD SPECIFICATIONS (SEE PLANS FOR THICKNESS).
2. SURFACE COURSE AND BINDER COURSE SHALL BE HOT MIX ASPHALT (HMA) CONFORMING TO IDOT STANDARD SPECIFICATIONS (SEE PLANS FOR THICKNESS).
3. CURB & GUTTER AND SIDEWALK SHALL BE CLASS SP PORTLAND CEMENT CONCRETE CONFORMING TO IDOT STANDARD SPECIFICATIONS.
4. SUBGRADE SHALL BE FINISHED TO BE WITHIN 0.1 FEET OF DESIGN SUBGRADE ELEVATIONS BY THE EARTHWORK CONTRACTOR. FINE GRADING FOR PAVEMENTS AND SIDEWALKS SHALL BE THE RESPONSIBILITY OF THE PAVING CONTRACTOR.
5. AGGREGATE BASE COURSES SHALL BE PRIMED AT THE RATE OF 0.25 TO 0.50 GALLONS PER SQUARE YARD AND BRICK CONCRETE, OR HMA BASES SHALL BE PRIMED AT THE RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD WITH LIQUID ASPHALT CONFORMING TO THE IDOT STANDARD SPECIFICATIONS AND APPROPRIATE FOR PREVAILING WEATHER AND SITE CONDITIONS. PRIME COAT AND CLEANING THE EXISTING SURFACE SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
6. PAVEMENT SHALL BE CONSTRUCTED ON A THOROUGHLY COMPACTED SUBGRADE MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. PRIOR TO PLACEMENT OF THE NEW PAVEMENT, THE SUBGRADE SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEN AXLE DUMP TRUCK (MINIMUM 20 TONS). PROOF ROLLING SHALL BE WITNESSED BY THE GEOTECHNICAL CONSULTANT.
7. SIDEWALKS SHALL BE OF THE THICKNESS AND DIMENSIONS AS SHOWN IN THE CONSTRUCTION PLANS. CONTRACTION JOINTS SHALL BE SET AT 5' CENTERS AND 1/2 INCH REINFORCED FIBER EXPANSION JOINTS SHALL BE SET AT 50' CENTERS AND WHERE THE SIDEWALK MEETS THE CURB, A BUILDING, OR AT THE END OF EACH POUR, ALL SIDEWALKS CONSIDERED TO BE ACCESSIBLE ROUTES AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT (ADA) SHALL BE SUBJECT TO ILLINOIS ACCESSIBILITY CODE (IAC) REQUIREMENTS, UNLESS OTHERWISE NOTED.
8. TESTING OF THE SUBBASE, BASE COURSE, BINDER COURSE, SURFACE COURSE, AND CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. A QUALIFIED TESTING FIRM SHALL BE EMPLOYED TO PERFORM THE REQUIRED TESTS.
9. ASPHALT JOINTS FOR BINDER AND SURFACE COURSES ARE TO BE STAGGERED.

LEGEND



DESCRIPTION	
RIGHT-OF-WAY LINE	
PROPERTY LINE (EXTERIOR)	
LOT LINE (INTERIOR)	
EASEMENT LINE	
FENCE LINE	
CENTERLINE	
PROPERTY CORNER	
CONTOUR	
CURB & GUTTER	
DEPRESSED CURB & GUTTER	
REVERSE PITCHED CURB	
SPOT ELEVATION	
TOP OF CURB ELEVATION	
EDGE OF PAVEMENT ELEVATION	
UTILITY STUB	
SANITARY SEWER	
SANITARY FORCE MAIN	
STORM SEWER	
GAS MAIN	
UNDERGROUND TELEPHONE & ELECTRIC DUCT BANK	
BURIED CABLE-ELECTRIC	
BURIED CABLE-TELEPHONE	
ATLAS LOCATED UTILITY	
UTILITY STRUCTURE WITH CLOSED LID	
CURB INLET	
DRAINAGE STRUCTURE WITH OPEN LID	
FIRE HYDRANT	
GATE VALVE IN VALVE BOX	
VALVE IN VALVE VAULT	
POST INDICATOR VALVE	
THRUST BLOCK	
TREE	
TREE LINE	
CONCRETE HEADWALL	
SUBMERGED HEADWALL	
FLARED END SECTION (F.E.S.)	
GUY WIRES	
FLOOD LIGHT	
UTILITY POLE	
LIGHT STANDARD	
TRAFFIC SIGNAL POLE	
HAND HOLE	
SOIL BORING	
IRRIGATION HEADS	
SIGN	
TELEPHONE MANHOLE	
MONITORING WELL	
TELEPHONE PEDESTAL	
TRANSFORMER PAD	
UTILITY TO BE ABANDONED	
FEATURE TO BE REMOVED	
STORMWATER FLOW DIRECTION	
STORMWATER OVERFLOW ROUTE	
DITCH CHECK	
INLET FILTER BASKET	
RIp RAP	
BOLLARD	
SLIT FENCE	
WATER MAIN PROTECTION	
UTILITY CROSSING LABEL	
QUADRANT	
RAILROAD TRACKS	
RETAINING WALL	
REVISION DELINEATION	
CONSTRUCTION LIMIT LINE	
TREE PROTECTION FENCE	

ABBREVIATIONS

A	ARC LENGTH
B	BACK TO BACK OF CURB
B/C	BACK OF CURB
BLDG	BUILDING
BM	BENCHMARK
BP	BOTTOM OF PIPE
BVVV	BUTTERFLY VALVE IN VALVE VAULT
C & G	CURB AND GUTTER
CB	CATCH BASIN
C	CENTERLINE
C/L	CLOSED LID
CO	CLEAN OUT
DIP	DUCTILE IRON PIPE
DIA	DIAMETER
DWM	DUCTILE IRON WATER MAIN
DWG	DRAWING
E	EAST OR ELECTRIC OR EDGE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
F & CL	FRAME & CLOSED LID
F & G	FRAME & OPEN LID
FES	FLARED END SECTION
F-F	FACE TO FACE OF CURB
FG	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
GL	GAS LINE
GVVB	GATE VALVE IN VALVE BOX
GVVV	GATE VALVE IN VALVE VAULT
HDCP	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HEADWALL	HEADWALL
HOR	HORIZONTAL
HP	HIGH POINT
HWL	HIGH WATER LEVEL
IE	INVERT ELEVATION
IN	INLET
LF	LINEAL FEET
LP	LOW POINT OR LIGHT POLE
L	LEFT
ME	MATCH EXISTING
MH	MANHOLE
MW	MONITORING WELL
N	NORTH
NC	NOT IN CONTRACT / NOT INCLUDED
NWL	NORMAL WATER LEVEL
OC	ON CENTER
OL	OPEN LID
PC	PORTLAND CEMENT CONCRETE
PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POINT OF VERTICAL CURVATURE OR POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF TANGENT TANGENCY
R	RADIUS OR RIGHT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
S	SLOPE OR SOUTH
SAN	SANITARY
SF	SILTATION FENCE
SFM	SANITARY FORCE MAIN
SHT	SHEET
SHW	SUBMERGED HEADWALL
SMH	SANITARY MANHOLE
STA	STATION
ST	STORM STRUCTURE OR STORM SEWER
STAH	STORM MANHOLE
T	TANGENT LENGTH OR TELEPHONE
T/C	TOP OF CURB
TP	TOP OF PIPE
TW	TOP OF WALL
TY	TYPE
TYP	TYPICAL
UP	UTILITY POLE
VC	VERTICAL CURVE
VERT	VERTICAL
VCP	VITRIFIED CLAY PIPE
W	WEST
WM	WATER MAIN

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ILLINOIS REGISTERED CIVIL ENGINEER
EXPIRATION DATE: NOVEMBER 30, 2023

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No.	Date	Description
4	10/20/2023	Village Comments
1	08/14/2023	90% CD's
2	07/27/2023	80% CD's
1	06/30/2023	50% CD's

ARLINGTON HEIGHTS
PHASE 1

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TR Management + Consulting
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Clark Construction Group
216 S. Jefferson Street, Suite 502
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Tel: 312-474-6500

MECHANICAL, DESIGN/BUILD CONTRACTOR

PLUMBING DESIGN/BUILD CONTRACTOR

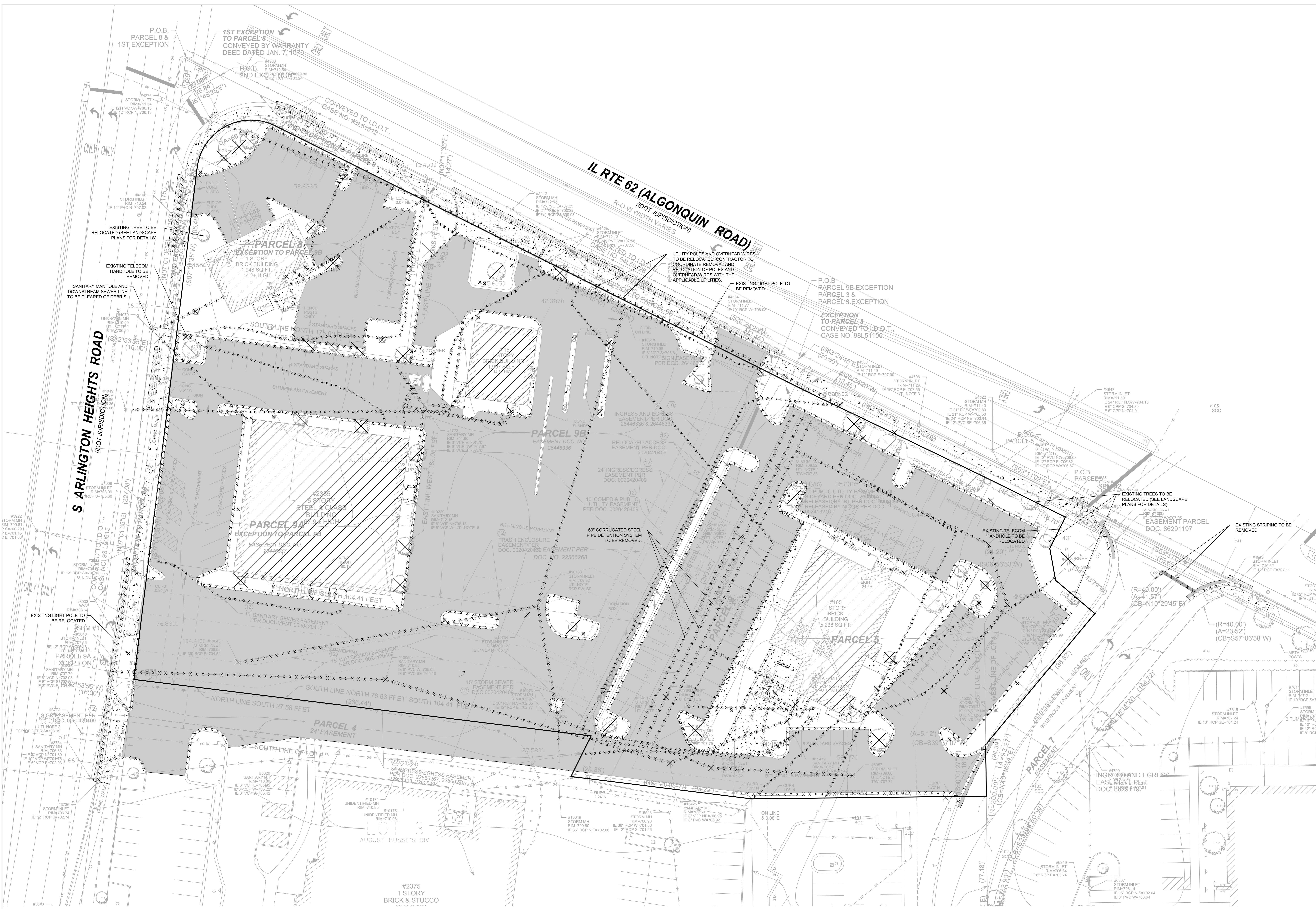
ELECTRICAL DESIGN/BUILD CONTRACTOR

FIRE PROTECTION DESIGN/BUILD CONTRACTOR

SHEET TITLE:
GENERAL NOTES LEGEND AND ABBREVIATIONS

DATE	SHEET NUMBER
AS NOTED	
DATE	
Project Issue Date	C1.0

N:\2023\230084\Drawings\ACAD\LD\504\Sheet Drawings\C1.0 Gal230084.dwg/02/20/2023



NOTES:

- THE EXTENT OF DEMOLITION WORK IS AS GENERALLY SHOWN ON THE CONSTRUCTION DOCUMENTS. SPECIFIC DEMOLITION PROCESSES OR PROCEDURES FOR DEMOLITION AND STRUCTURAL CONSIDERATIONS ARE THE RESPONSIBILITY OF OTHERS. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, REMOVAL AND DISPOSAL OFFSITE OF THE FOLLOWING ITEMS:
 - SIDEWALK AND ON-SITE PAVEMENT
 - BUILDINGS, FOUNDATIONS, AND SUPPORTING WALLS AND SLABS
 - UTILITIES
 - CONSTRUCTION DEBRIS
- ALL PAVEMENT TO BE REMOVED ADJACENT TO PAVEMENT THAT IS TO REMAIN SHALL BE SAWCUT FULL DEPTH AT THE EDGES PRIOR TO REMOVAL TO OBTAIN A "CLEAN" JOINT WHERE IT ADJUTS NEW CURB OR PAVEMENT.
- CONTRACTOR MUST RECEIVE APPROVAL FROM CIVIL ENGINEER AND GEOTECHNICAL ENGINEER FOR THE MATERIAL TYPE AND USE IF CONTRACTOR DESIRES TO REUSE DEMOLISHED SITE PAVEMENT AS STRUCTURAL FILL.
- STRUCTURES TO BE DEMOLISHED SHALL BE VACATED AND DISCONTINUED FROM USE PRIOR TO START OF WORK. OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF STRUCTURES TO BE DEMOLISHED. CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSES WILL BE MAINTAINED BY OWNER IN SO FAR AS PRACTICABLE. HOWEVER, VARIATIONS WITHIN THE STRUCTURES MAY OCCUR BY OWNER'S REMOVAL AND SALVAGE OPERATIONS PRIOR TO START OF DEMOLITION WORK.

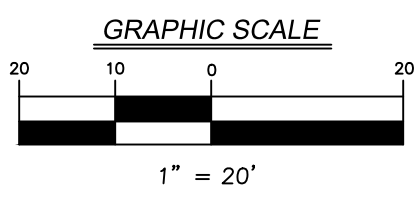
- ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED AS WORK PROGRESSES AND AS APPROVED BY THE OWNER. SALVAGED ITEMS MUST BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED.
- CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF BUILDINGS, PAVEMENTS AND UTILITIES TO REMAIN FROM ANY DAMAGE AND SHALL BE RESPONSIBLE FOR REPAIRING THE SAME.
- EXISTING UTILITIES, WHICH DO NOT SOLELY SERVICE STRUCTURES BEING DEMOLISHED, ARE TO BE KEPT IN SERVICE AND PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS. CONTRACTOR SHALL ARRANGE FOR SHUT-OFF OF UTILITIES SERVING STRUCTURES TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR TURNING OFF, DISCONNECTING, AND SEALING INDICATED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS.
- EXISTING UTILITIES TO BE ABANDONED ARE TO BE CAPPED AT BOTH ENDS AND FILLED WITH #4 OR APPROVED EQUAL. ALL UNDERGROUND UTILITIES TO BE REMOVED ARE TO HAVE THEIR TRENCHES BACKFILLED WITH ENGINEERED FILL OR SELECT EXCAVATED MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER, TO 95% OF MODIFIED PROCTOR DENSITY.
- ALL PRIVATE UTILITIES (ELECTRIC, CABLE, TELEPHONE, FIBER OPTIC, GAS) SHALL BE REMOVED AND RELOCATED PER THE UTILITY OWNER AND THE LOCAL MUNICIPALITY'S REQUIREMENTS.

- CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UNDERGROUND AND OVERHEAD UTILITIES DURING CONSTRUCTION. UTILITY PROTECTION SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER AND THE GOVERNING MUNICIPALITY. DAMAGED CABLES/CONDUITS SHALL BE REPLACED IMMEDIATELY. ALL EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS. ALL DAMAGED STRUCTURES SHALL BE REPLACED IN-KIND AND THEIR REPLACEMENT COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- REMOVAL, ABANDONMENT, AND RELOCATION OF EXISTING UTILITIES SHALL BE COMPLETED AS GENERALLY DEPICTED ON THESE PLANS. CONTRACTOR TO COORDINATE RELOCATIONS WITH THE UTILITY OWNER. CONTRACTOR SHALL MINIMIZE DISRUPTION OF SERVICE AND SHALL WORK WITH UTILITY OWNER TO MAINTAIN AN ACCEPTABLE LEVEL OF SERVICE.
- USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO MINIMIZE DUST AND DRIFT FROM RISING AND SCATTERING IN THE AIR. COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
- COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION TO THE FINAL LINES AND GRADES SHOWN ON THE CONTRACT DOCUMENTS. BACKFILL MATERIAL SHALL BE IDOT APPROVED AGGREGATE (CA-6) OR APPROVED EQUAL.
- SEE LANDSCAPE PLANS FOR INFORMATION ON LANDSCAPE AND TREE PROTECTION, PRESERVATION, AND REMOVAL.

- EXISTING MONITORING WELLS ARE TO BE REMOVED AS NECESSARY AND SEALED BY STATE LICENSED WELL DRILLER PER ILLINOIS DEPARTMENT OF PUBLIC HEALTH REQUIREMENTS AND/OR LOCAL/COUNTY REQUIREMENTS. CONTRACTOR TO COORDINATE WITH THE COOK COUNTY HEALTH DEPARTMENT (708-492-2000) FOR DIRECTION AND REQUIRED SEALING REPORT DOCUMENTATION.
- THESE DRAWINGS DO NOT INCLUDE THE REMOVAL OF UNDERGROUND STORAGE TANKS. SHOULD UNDERGROUND STORAGE TANKS BE ENCOUNTERED, CONTRACTOR TO CONTACT OWNER AND ENGINEER TO DETERMINE RESPONSIBILITY FOR ANY ENVIRONMENTAL REMEDIATION OR REMOVAL WORK AS NECESSARY. ANY REMOVAL OF UNDERGROUND STORAGE TANKS MUST BE IN CONFORMANCE WITH LOCAL AND STATE STANDARDS.

DEMOLITION LEGEND

- ASPHALT PAVEMENT REMOVAL (FULL DEPTH)
- CONCRETE PAVEMENT OR SIDEWALK REMOVAL (FULL DEPTH)
- IDOT PAVEMENT RESTORATION MILL 1.5" ASPHALT SURFACE COURSE
- BUILDING AND FOUNDATION REMOVAL
- PAVER REMOVAL
- CONC. CURB/GUTTER OR UTILITY LINE TO BE REMOVED
- STRUCTURE/TREE TO BE REMOVED
- SAWCUT LINE



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ILLINOIS
REGISTERED CIVIL ENGINEER
#602106588
EXPIRATION DATE:
NOVEMBER 30, 2023

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4	10/20/2023	Village Comments

ARLINGTON HEIGHTS
PHASE 1

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Arlington Heights, IL 60005

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GEOTECHNICAL ENGINEER
GEI
216 S. Jefferson Street, Suite 502
Chicago, IL 60606
Tel: 312-474-6500

MECHANICAL DESIGN/BUILD CONTRACTOR

PLUMBING DESIGN/BUILD CONTRACTOR

ELECTRICAL DESIGN/BUILD CONTRACTOR

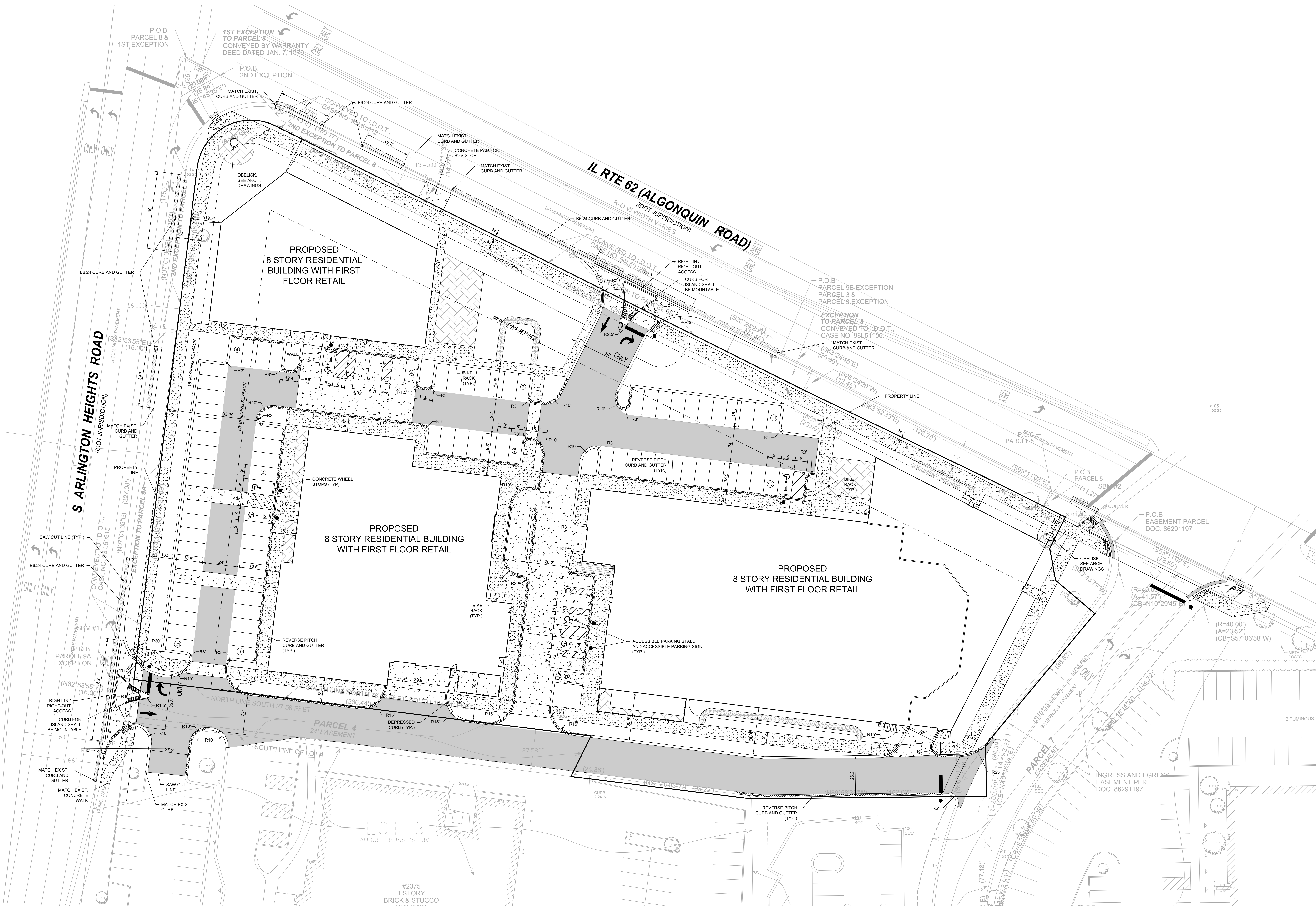
FIRE PROTECTION DESIGN/BUILD CONTRACTOR

SHEET TITLE
DEMOLITION PLAN

SCALE
AS NOTED

DATE
Project Issue Date

SHEET NUMBER
C2.1



PAVING LEGEND

HEAVY DUTY HMA PAVEMENT

2" HMA SURFACE COURSE, MIX C, N50
2.25" HMA BINDER COURSE, IL-19.0, N50
5" HMA BINDER COURSE, IL-19.0, N50
4" AGGREGATE BASE COURSE - CA6

CONCRETE PAVEMENT

6" P.C. CONCRETE PAVEMENT WITH
(6X8X2 9"W2 9") W.W.F.
6" AGGREGATE BASE COURSE - CA6
(REFER TO ARCH. PLANS FOR AREAS OF
PIGMENTED CONCRETE)

PATIO PAVEMENT

SEE ARCHITECT'S DRAWINGS FOR DETAILS

REGULAR HMA PAVEMENT

1.5" HMA SURFACE COURSE, MIX C, N50
2.5" HMA BINDER COURSE, IL-19.0, N50
9" AGGREGATE BASE COURSE - CA6

CONCRETE SIDEWALK

5" P.C. CONCRETE PAVEMENT
4" AGGREGATE BASE COURSE - CA6

GRAVEL PATH

SEE ARCHITECT'S DRAWINGS FOR DETAILS

IDOT PAVEMENT RESTORATION

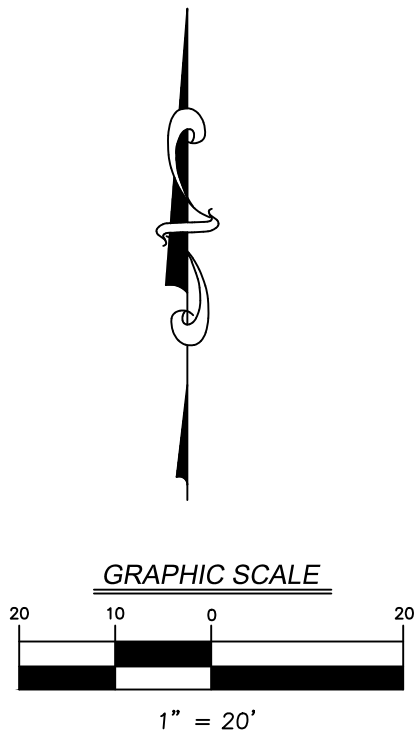
1.5" EXISTING ASPHALT TO BE MILLED & PROPERLY
DISPOSED OF BY CONTRACTOR
1.5" HOT MIX ASPHALT SURFACE COURSE, MIX D, N90

SURFACE PARKING SUMMARY

STANDARD SPACES	= 84
ADA SPACES	= 6
TOTAL SPACES	= 90

NOTES:

- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED WHITE UNLESS OTHERWISE NOTED.
- BUILDING DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
- ALL CURBS AND GUTTER SHALL BE 86.12 UNLESS OTHERWISE NOTED.



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SIGNATURE SEAL

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ILLINOIS
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#002 066588
EXPIRATION DATE:
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**ARLINGTON HEIGHTS
PHASE 1**

2355 S. Arlington Heights Rd.,
Arlington Heights, IL 60005

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MECHANICAL DESIGN/BUILD CONTRACTOR

PLUMBING DESIGN/BUILD CONTRACTOR

ELECTRICAL DESIGN/BUILD CONTRACTOR

FIRE PROTECTION DESIGN/BUILD CONTRACTOR

SHEET TITLE
**LAYOUT AND
PAVING PLAN**

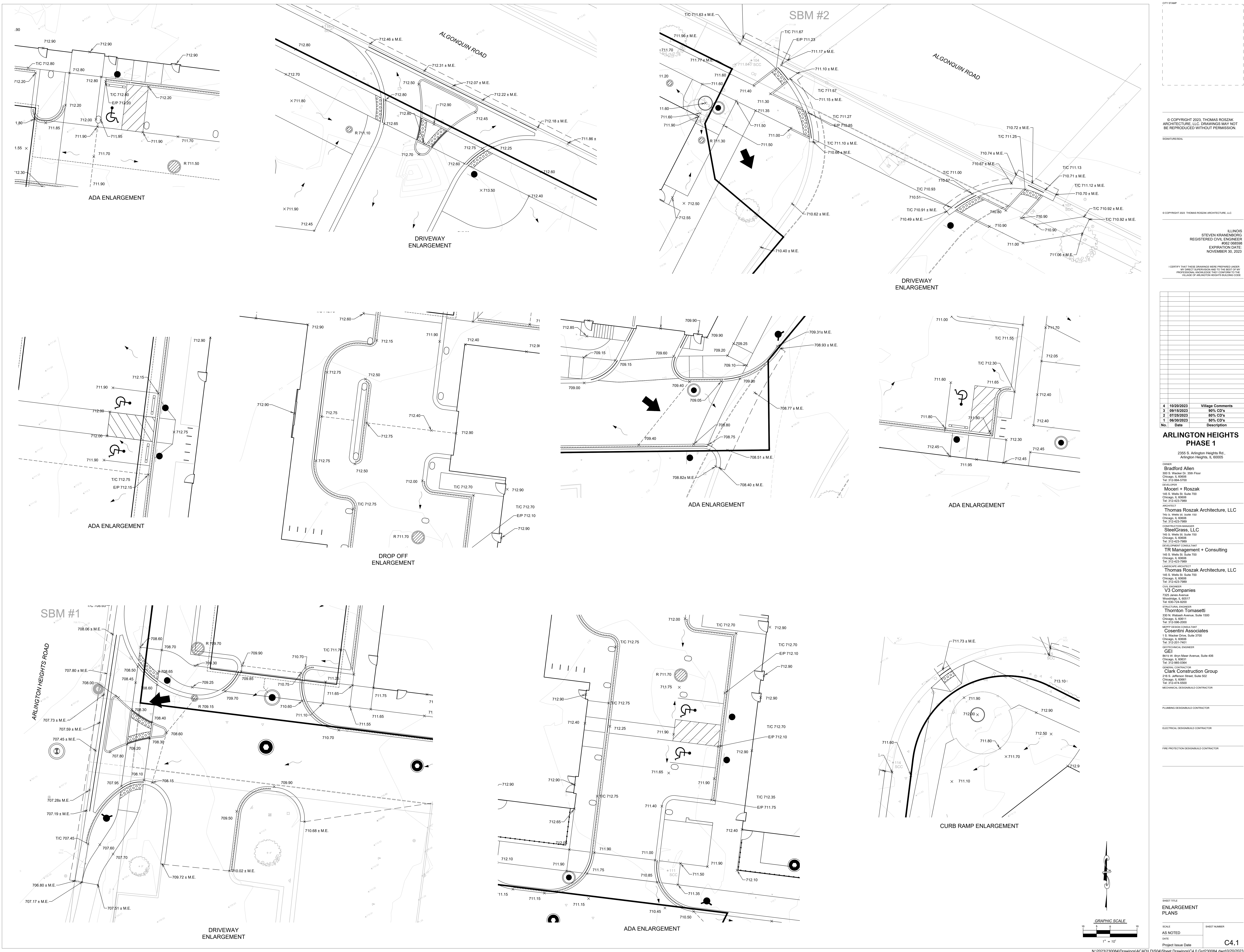
SCALE
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DATE
Project Issue Date

SHEET NUMBER
C3.0

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4) Sheet Drawing: C4.0 Cyl 230084.dwg 10/20/2022



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ILLINOIS
STEVEN KRANENBURG
REGISTERED CIVIL ENGINEER
#002 065588
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PHASE 1

2355 S. Arlington Heights Rd.,
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MECHANICAL DESIGN/BUILD CONTRACTOR

PLUMBING DESIGN/BUILD CONTRACTOR

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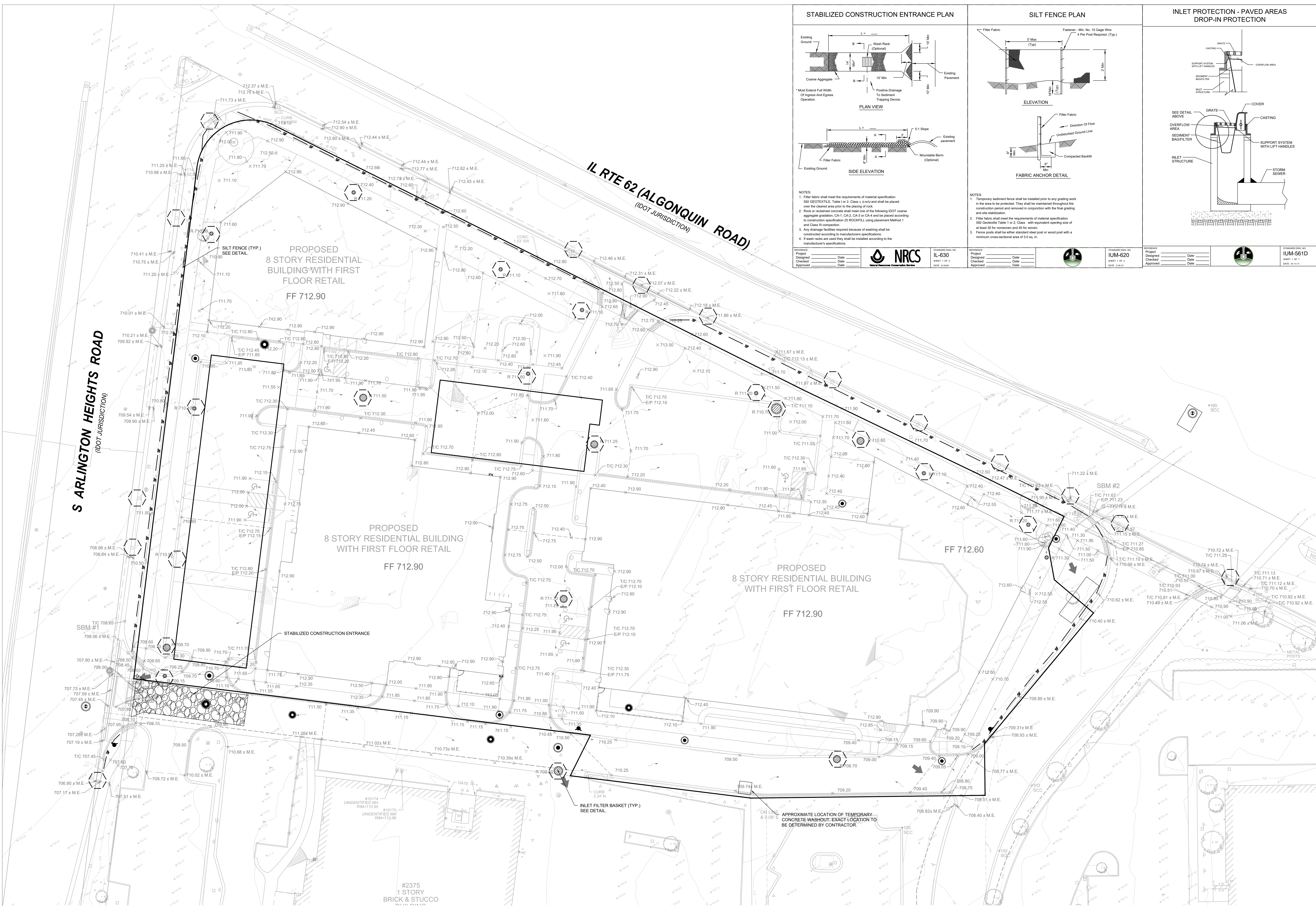
FIRE PROTECTION DESIGN/BUILD CONTRACTOR

SHEET TITLE
ENLARGEMENT
PLANS

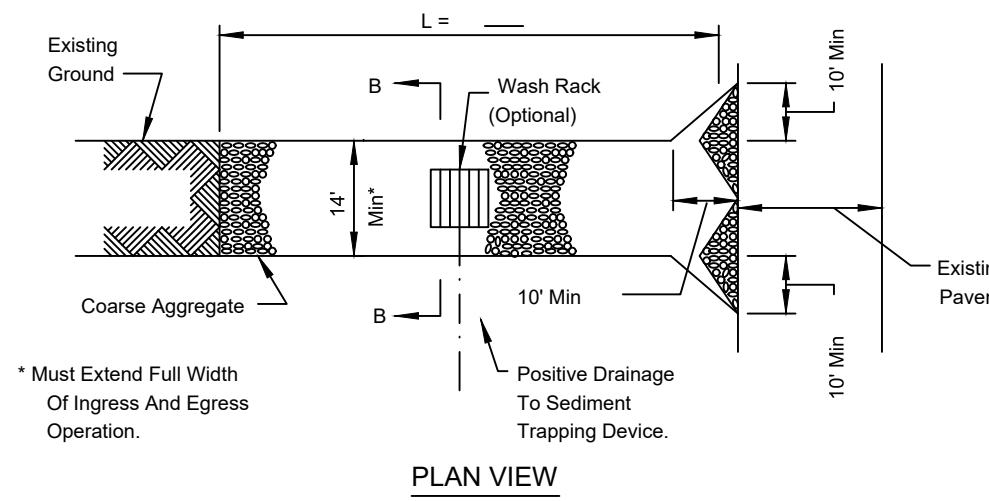
SCALE
AS NOTED

DATE
Project Issue Date

SHEET NUMBER
C4.1



STABILIZED CONSTRUCTION ENTRANCE PLAN

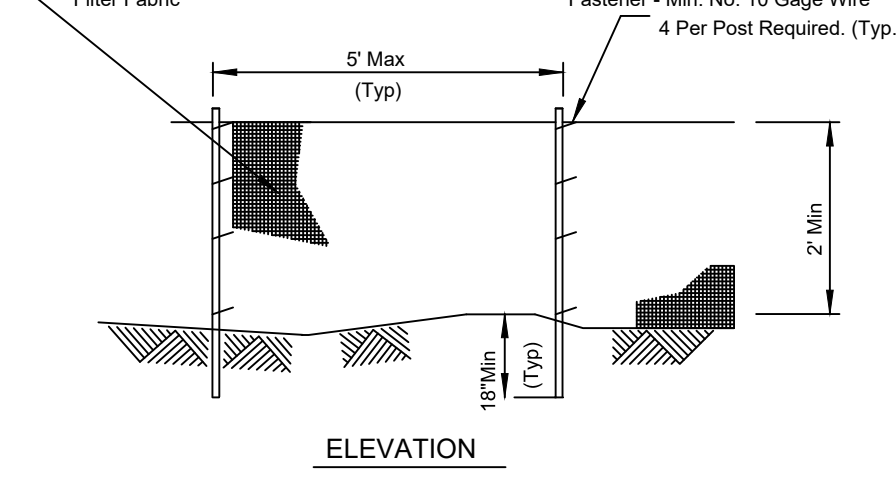


- NOTES:
1. Filter fabric shall meet the requirements of material specification 502 GEOTEXTILE. Table 1 or 2, Class I, if only and shall be placed over the cleared area prior to the placing of rock.
 2. Rock or reclaimed concrete shall meet one of the following (DOT coarse aggregate gradation: CA-1, 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 manufacturers specifications.
 4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE	PROJECT	DATE	DATE
DESIGNED	PROJECT	DATE	DATE
CHECKED	PROJECT	DATE	DATE
APPROVED	PROJECT	DATE	DATE



SILT FENCE PLAN

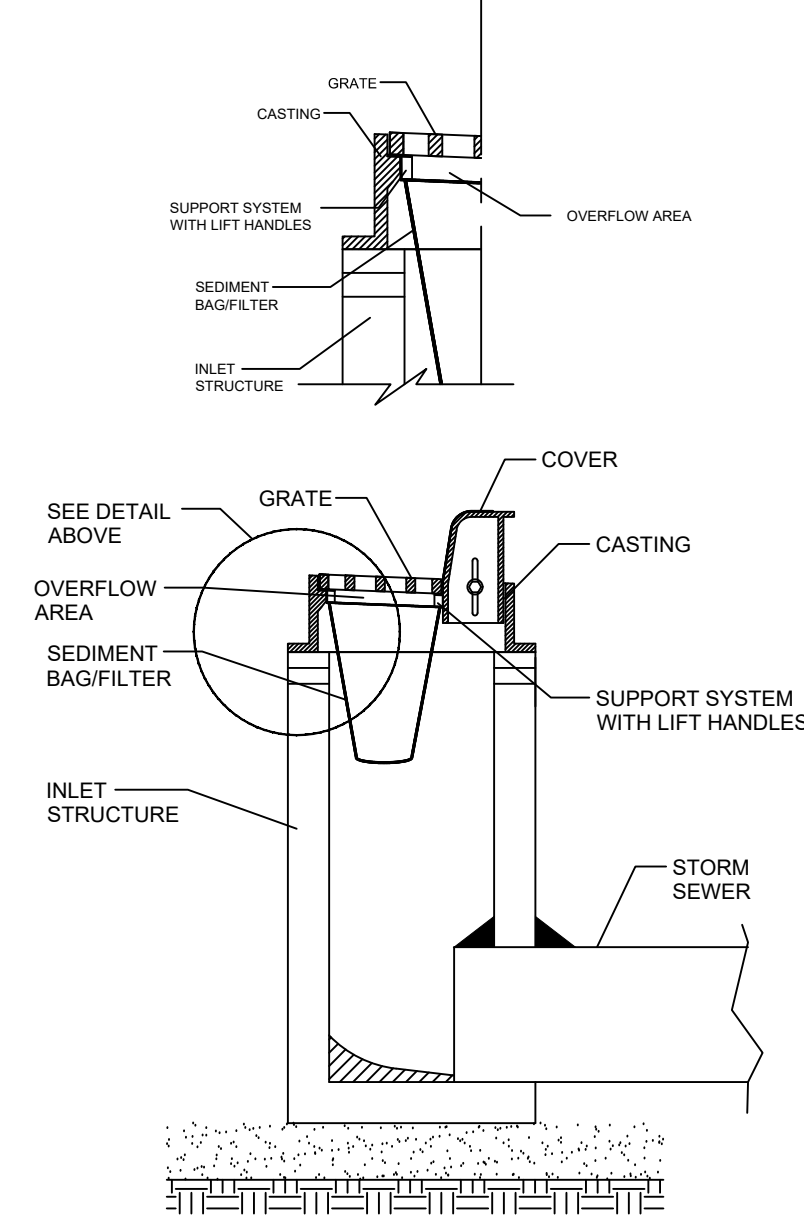


- NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
 2. Filter fabric shall meet the requirements of material specification 502 GEOTEXTILE Table 1 or 2, Class I, with equivalent opening size of at least 30 for nonwoven and 40 for woven.
 3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE	PROJECT	DATE	DATE
DESIGNED	PROJECT	DATE	DATE
CHECKED	PROJECT	DATE	DATE
APPROVED	PROJECT	DATE	DATE



INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION



REFERENCE	PROJECT	DATE	DATE
DESIGNED	PROJECT	DATE	DATE
CHECKED	PROJECT	DATE	DATE
APPROVED	PROJECT	DATE	DATE

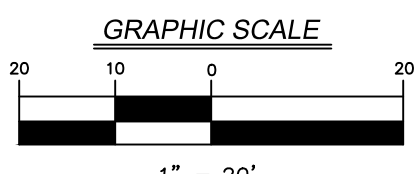


EROSION CONTROL LEGEND

- INLET PROTECTION
- SILT FENCE

NOTES:

1. CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR TO INSTALL SILT FENCE PRIOR TO COMMENCEMENT OF ANY EARTHWORK. CONTRACTOR TO MAINTAIN SILT FENCE AS SHOWN AND INSTALL ADDITIONAL SILT FENCE WHEREVER NECESSARY THROUGHOUT CONSTRUCTION ACTIVITIES TO MINIMIZE SOIL EROSION.
3. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL OPEN LID STRUCTURES. SEE INLET PROTECTION DETAIL ON THIS SHEET.
4. EROSION CONTROL BLANKET (ROLLMAX ERONET 9150 OR APPROVED EQUAL) SHALL BE PLACED ON ALL AREAS WITH SIDE SLOPES OF 4:1 OR GREATER, AND IN BOTTOM AND SIDE SLOPES OF SWALES WHERE NOTED.
5. ALL SEDIMENT AND EROSION CONTROL MEASURES IN AND AROUND THE PROPOSED IMPROVEMENTS ARE TO REMAIN IN PLACE AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES UNTIL THE PROPOSED IMPROVEMENTS ARE COMPLETED AND THE SITE ADEQUATELY STABILIZED.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY V3 COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS.



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ILLINOIS
REGISTERED CIVIL ENGINEER
#602 065588
EXPIRATION DATE:
NOVEMBER 30, 2023

I CERTIFY THAT THESE DRAWINGS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY TO THE VILLAGE OF ARLINGTON HEIGHTS BUILDING CODE.

4	10/20/2023	Village Comments
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PHASE 1

2355 S. Arlington Heights Rd.,
Arlington Heights, IL 60005

- OWNER
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Chicago, IL 60606
Tel: 312-423-7989
- ARCHITECT
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Chicago, IL 60606
Tel: 312-423-7989
- CONSTRUCTION MANAGER
SteelGrass, LLC
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Chicago, IL 60606
Tel: 312-423-7989
- TR Management + Consulting
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Chicago, IL 60606
Tel: 312-423-7989
- LANDSCAPE ARCHITECT
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Tel: 312-423-7989
- CIVIL ENGINEER
V3 Companies
7325 James Avenue
Woodridge, IL 60077
Tel: 630-724-6200
- STRUCTURAL ENGINEER
Thornton Tomasetti
330 N. Wabash Avenue, Suite 1500
Chicago, IL 60611
Tel: 312-595-2050
- MECHANICAL DESIGN CONSULTANT
Cosentini Associates
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Chicago, IL 60606
Tel: 312-423-7989
- GEOTECHNICAL ENGINEER
GEI
145 S. Wacker St. Suite 700
Chicago, IL 60606
Tel: 312-423-7989
- GENERAL CONTRACTOR
Clark Construction Group
216 S. Jefferson Street, Suite 502
Chicago, IL 60606
Tel: 312-474-6500
- MECHANICAL DESIGN/BUILD CONTRACTOR

PLUMBING DESIGN/BUILD CONTRACTOR

ELECTRICAL DESIGN/BUILD CONTRACTOR

FIRE PROTECTION DESIGN/BUILD CONTRACTOR

SHEET TITLE
EROSION CONTROL
PLAN AND DETAILS

DATE
AS NOTED
DATE
Project Issue Date

C4.2

[illegible]

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ILLINOIS
STEVEN KRANENBORG
REGISTERED CIVIL ENGINEER
#062 068598
EXPIRATION DATE
NOVEMBER 30, 2023

I CERTIFY THAT THESE DRAWINGS WERE PREPARED UNDER
MY DIRECT SUPERVISION AND TO THE BEST OF MY
PROFESSIONAL KNOWLEDGE THEY CONFORM TO THE
VILLAGE OF ARLINGTON HEIGHTS BUILDING CODE

4	10/20/2023	Village Comments
3	09/16/2023	90% CD's
2	07/26/2023	80% CD's
1	06/20/2023	50% CD's
No.	Date	Description

**ARLINGTON HEIGHTS
PHASE 1**

2355 S. Arlington Heights Rd.,
Arlington Heights, IL 60005

OWNER
Bradford Allen
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Chicago, IL 60606

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GENERAL CONTRACTOR
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216 S. Jefferson Street, Suite 502
Chicago, IL 60661

MECHANICAL DESIGN/BUILD CONTRACTOR

PLUMBING DESIGN/BUILD CONTRACTOR

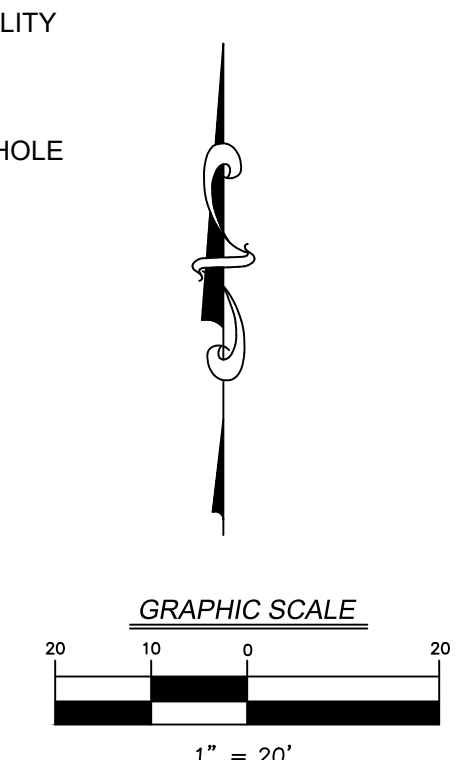
ELECTRICAL DESIGN/BUILD CONTRACTOR

FIRE PROTECTION DESIGN/BUILD CONTRACTOR

NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING UTILITY WORK. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
2. UNLESS INDICATED OTHERWISE, PAVEMENT AND OPEN ID STORM STRUCTURES IN PAVEMENT SHALL BE NEENAH R-2502 WITH TYPE D ID OR APPROVED EQUIVALENT, AND FRAME SHALL BE NEENAH R-1772 WITH TYPE D ID OR APPROVED EQUIVALENT. OPEN ID STORM STRUCTURES IN PAVEMENT SHALL BE NEENAH R-1772 OR APPROVED EQUIVALENT. PAVEMENT AND OPEN ID STORM STRUCTURES IN OPEN SPACE SHALL BE R-4340-B OR APPROVED EQUIVALENT. ALL FRAME AND GRATES SHALL CONFORM TO LOCAL MUNICIPALITY REQUIREMENTS.
3. PAVEMENT AND CLOSED ID STORM STRUCTURES LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL BE NEENAH R-1772 WITH TYPE D ID OR EQUIVALENT WITH PERMA-GRA SURFACE DRILL 1" DIAMETER HOLE INSTEAD OF A STANDARD PICK UP. "

STORMWATER MANAGEMENT SUMMARY	
STORMWATER DETENTION REQUIRED*	1.606 AC-FT
VOLUME CONTROL, REQUIRED**	0.233 AC-FT **
TOTAL STORAGE REQUIRED	1.830 AC-FT
DESIGN PARAMETERS	
GREEN ROOF	20.535 SQUARE FEET
* REQUIRED STORMWATER DETENTION VOLUME TO BE PROVIDED WITHIN AN UNDERGROUND VAULT.	
** VOLUME CONTROL TO BE PROVIDED WITHIN GREEN ROOF SYSTEM AND BELOW THE GREEN VAULT OF THE DETENTION VAULT.	
VOLUME CONTROL PROVIDED VIA GREEN ROOF = 0.039 AC-FT	
VOLUME CONTROL PROVIDED WITHIN DETENTION VAULT = 0.232 AC-FT	
***ALLOWABLE RELEASE RATE: 0.991 CFS.	



SHEET TITLE

UTILITY PLAN

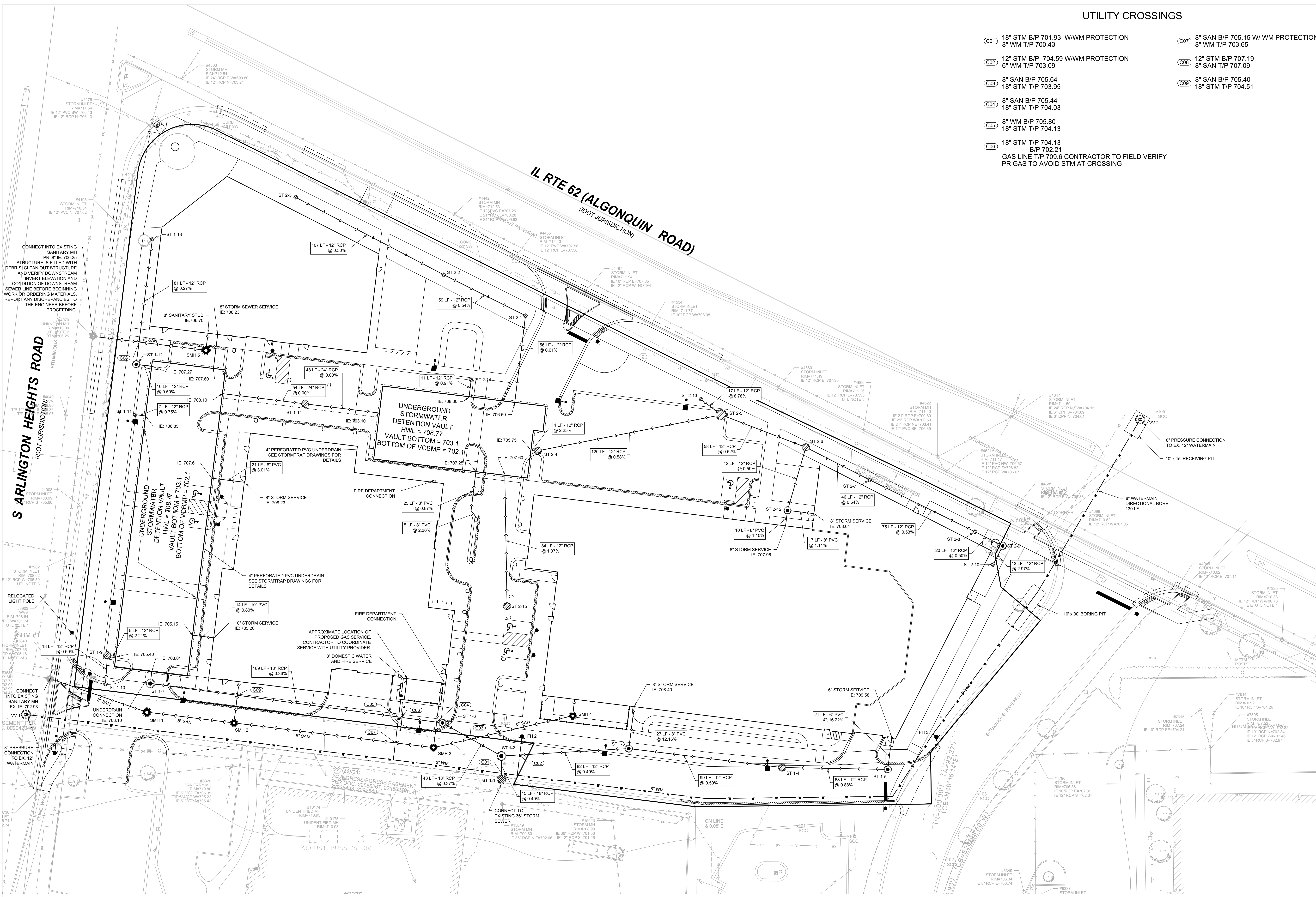
SCALE	SHEET NUMBER
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AS NOTED	
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DATE	C5.0
Project Issue Date	

Project Issue Date	C5.0
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N:\2023\230084\Drawings\ACAD\1 D\S04\Sheet Drawings\C5.0\111230084.dwg 10/20/202



STORM STRUCTURE TABLE				
STRUCTURE	DESCRIPTION	RIM	INVERT IN	INVERT OUT
ST 1-1	5' DIA. RESTRICTOR MANHOLE SEE SHEET C08.1 FOR DETAIL	RIM: 709.80	702.10 (18" N)	
ST 1-2	5' MH (Closed)	RIM: 710.20	702.16 (18" NW) 704.70 (12" E)	702.16 (18" S)
ST 1-3	4' MH (Closed)	RIM: 711.10	705.10 (12" E) 705.10 (6" N)	705.10 (12" W)
ST 1-4	4' MH (Open)	RIM: 708.70	705.60 (12" E)	705.60 (12" W)
ST 1-5	4' MH (Closed)	RIM: 709.25	706.30 (6" N)	706.20 (12" W)
ST 1-6	4' MH (Closed)	RIM: 711.71	702.32 (18" W)	702.32 (18" SE)
ST 1-7	5' MH (Closed)	RIM: 710.25	703.70 (18" N)	703.00 (18" E)
ST 1-9	4' MH (Open)	RIM: 709.70	705.52 (12" S)	705.52 (12" E)
ST 1-10	2' Inlet	RIM: 709.15		705.63 (12" N)
ST 1-11	2' Inlet	RIM: 710.10		706.90 (12" E)
ST 1-12	4' MH (Closed)	RIM: 711.30	707.32 (12" N)	707.32 (12" E)
ST 1-13	2' Inlet	RIM: 710.50		707.64 (12" S)
ST 1-14	4' MH (Open)	RIM: 711.50	703.10 (24" E)	703.10 (24" W)

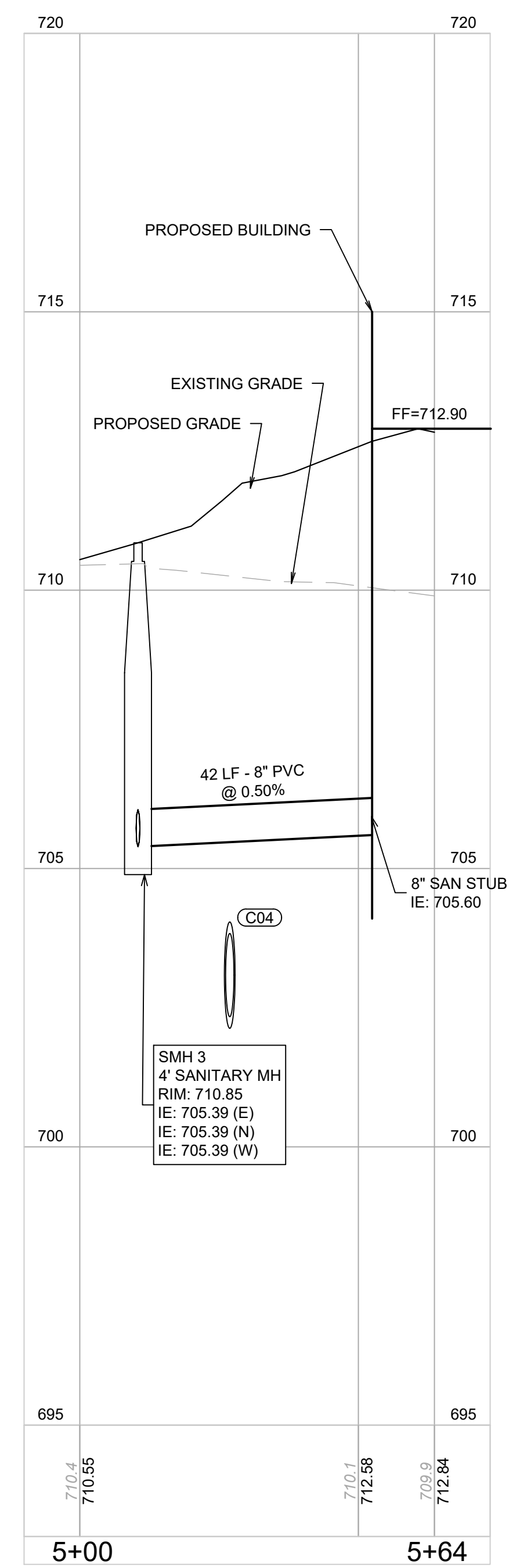
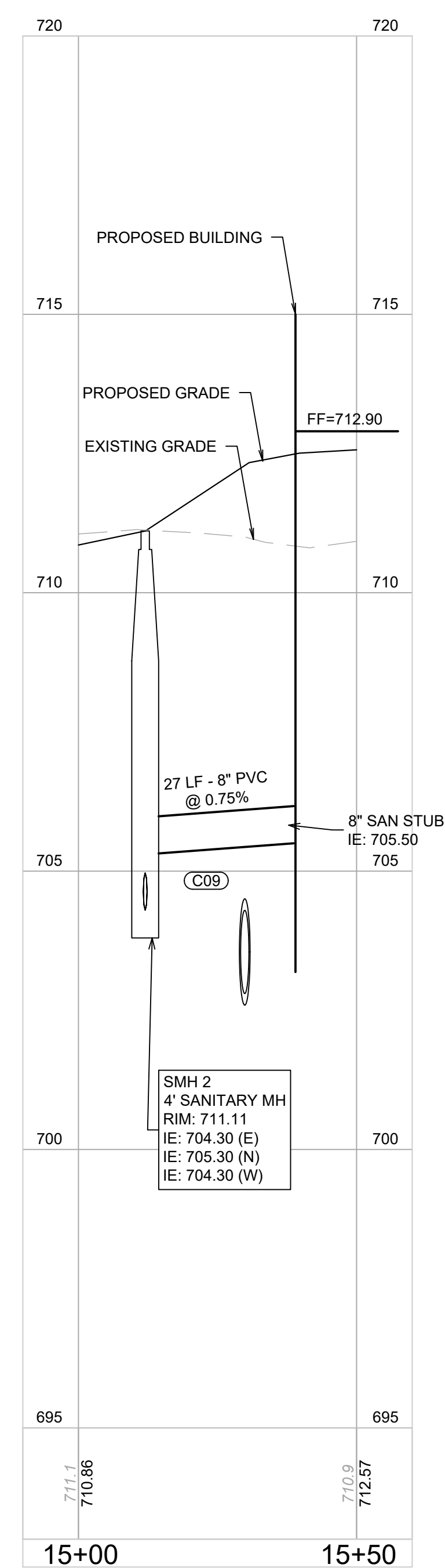
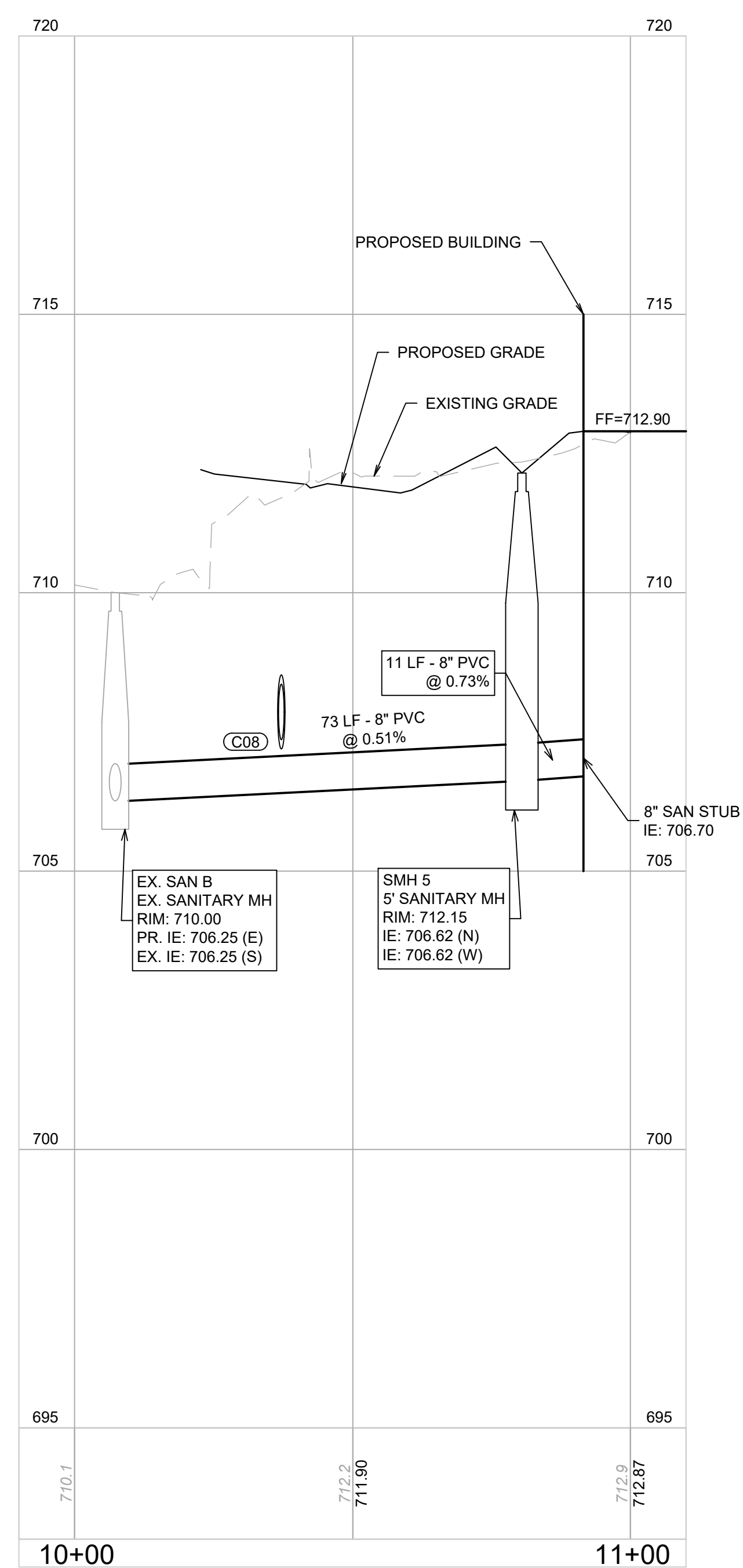
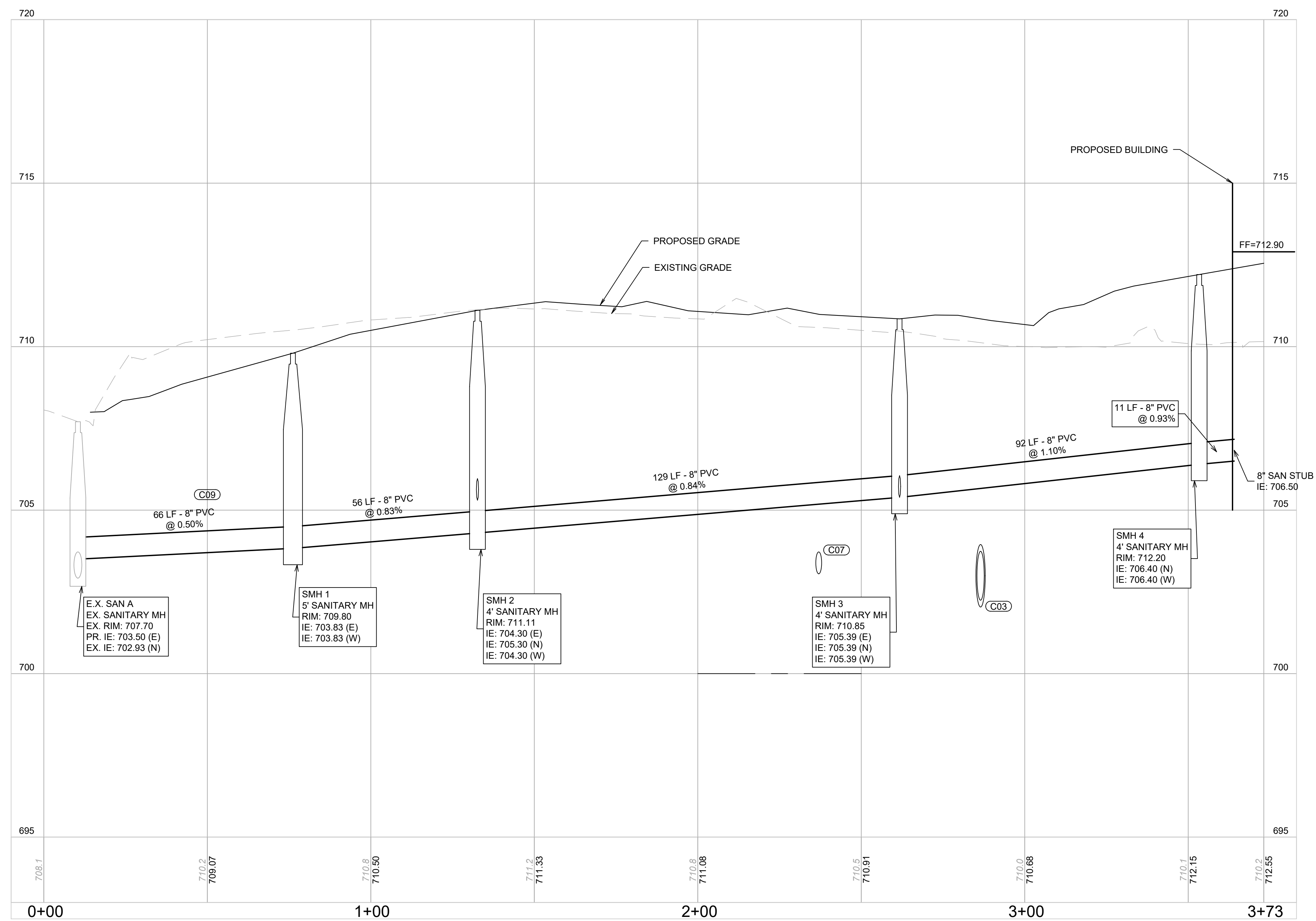
STORM STRUCTURE TABLE				
STRUCTURE	DESCRIPTION	RIM	INVERT IN	INVERT OUT
ST-2-1	2' Inlet	RIM: 711.10	706.84 (12" NW)	706.84 (12" S)
ST-2-2	2' Inlet	RIM: 711.10	707.16 (12" NW)	707.16 (12" SE)
ST-2-3	2' Inlet	RIM: 711.20	707.10 (12" NW)	707.10 (12" SE)
ST-2-4	4" MH (Open)	RIM: 711.25	705.85 (12" E)	705.85 (12" W)
ST-2-5	6" MH (Open)	RIM: 710.70	706.55 (12" E) 706.55 (12" NW)	706.55 (12" W)
ST-2-6	4" MH (Open)	RIM: 710.80	706.85 (12" SE) 707.60 (12" S)	706.85 (12" W)
ST-2-7	2' Inlet	RIM: 711.10	707.10 (12" SE)	707.10 (12" NW)
ST-2-8	2' Inlet	RIM: 711.20	707.50 (12" SE)	707.50 (12" NW)
ST-2-9	4" MH (Closed)	RIM: 711.55	707.60 (12" SW)	707.60 (12" NW)
ST-2-10	2' Inlet	RIM: 711.30	708.00 (12" NE)	708.00 (12" NE)
ST-2-12	4" MH (Closed)	RIM: 712.45	707.85 (8" E) 707.85 (8" S)	707.85 (12" N)
ST-2-13	2' Inlet	RIM: 711.20	708.00 (12" SE)	708.00 (12" SE)
ST-2-14	2' Inlet	RIM: 711.60	708.40 (12" S)	708.40 (12" S)

STORM STRUCTURE TABLE				
STRUCTURE	DESCRIPTION	RIM	INVERT IN	INVERT OUT
ST 2-15	4' MH (Open)	RIM: 711.70		708.50 (12" N)

WATER STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE DESCRIPTION	FINISHED GRADE
FH 1	FH	FG=707.89
FH 2	FH	FG=710.92
FH 3	FH	FG=709.04

WATER STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE DESCRIPTION	RIM GRADE
VV 1	VV	RIM=707.72
VV 2	VV	RIM= MEET EXIST.

ST 2-12	4' MH (Closed)	RIM: 712.45	707.85 (8" E) 707.85 (8" S)	707.85 (12" N)
ST 2-13	2' Inlet	RIM: 711.20		708.00 (12" SE)
ST 2-14	2' Inlet	RIM: 711.60		708.40 (12" S)



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SIGNATURE/SEAL

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ILLINOIS
STEVEN KRANENBORG
REGISTERED CIVIL ENGINEER
#062 068598
EXPIRATION DATE:
NOVEMBER 30, 2023

[illegible]

**ARLINGTON HEIGHTS
PHASE 1**
2355 S. Arlington Heights Rd.,
Arlington Heights, IL 60005

OWNER
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Tel: 312-201-7401

GEI
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Chicago, IL 60631
Tel: 312-985-0364

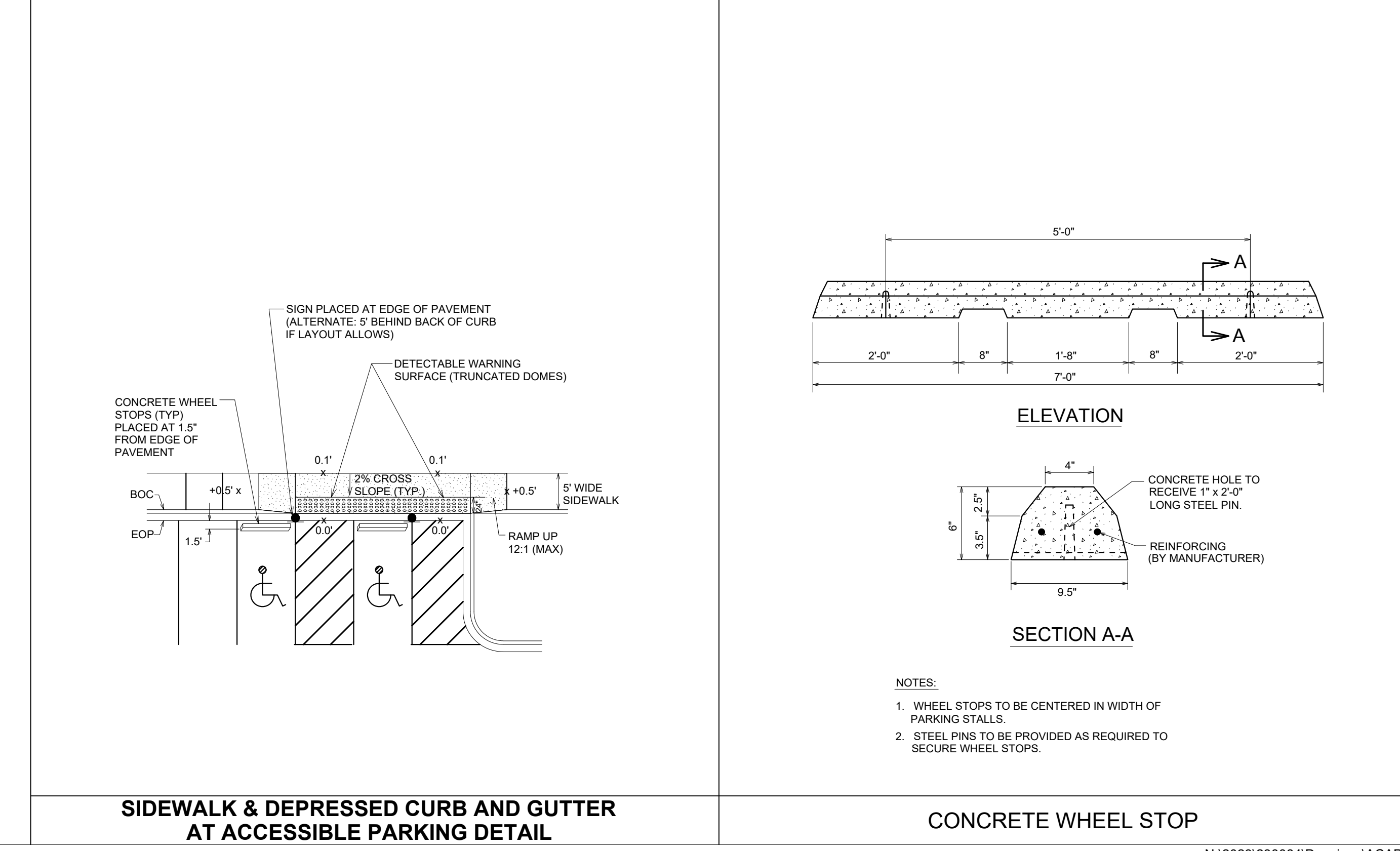
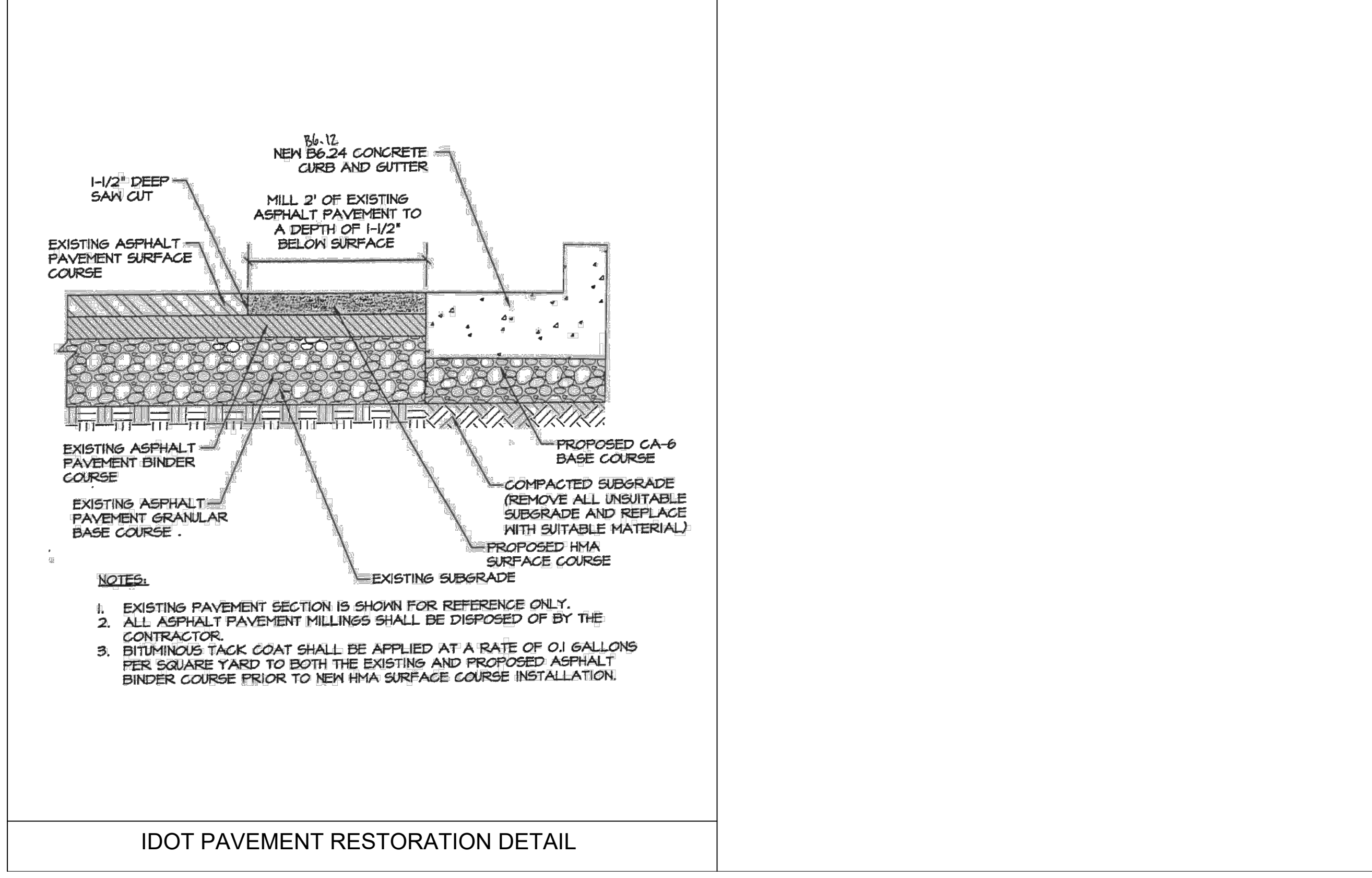
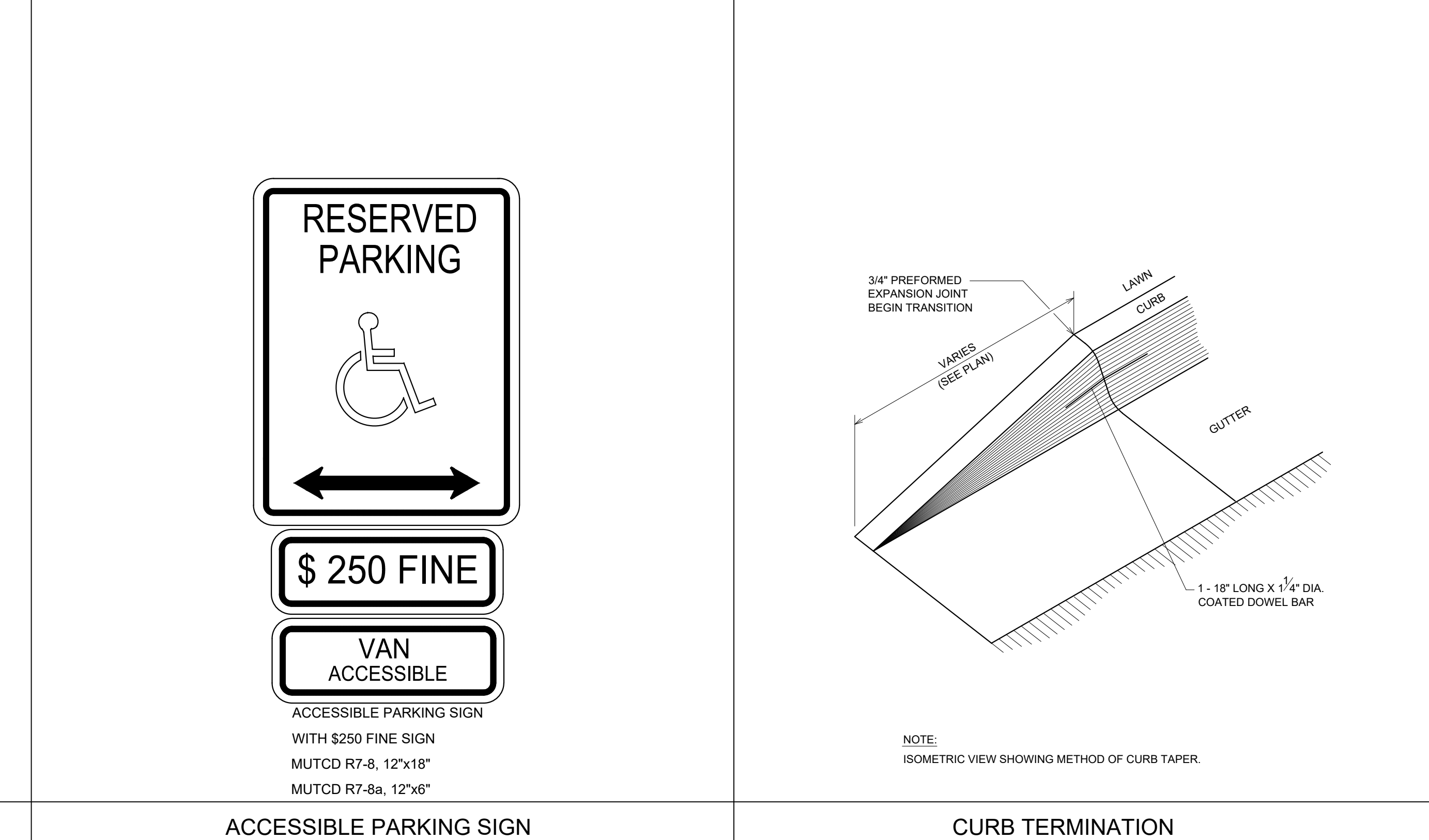
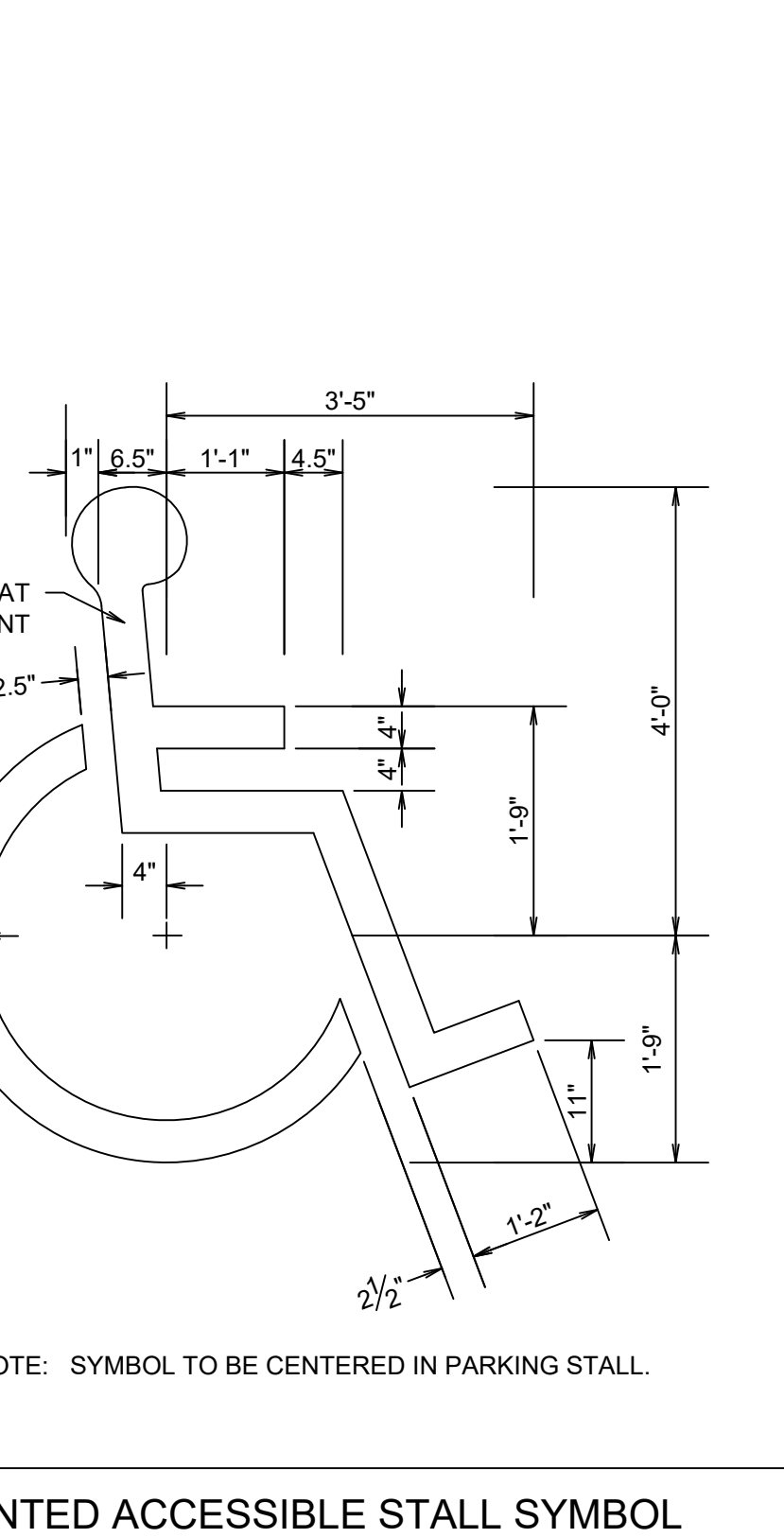
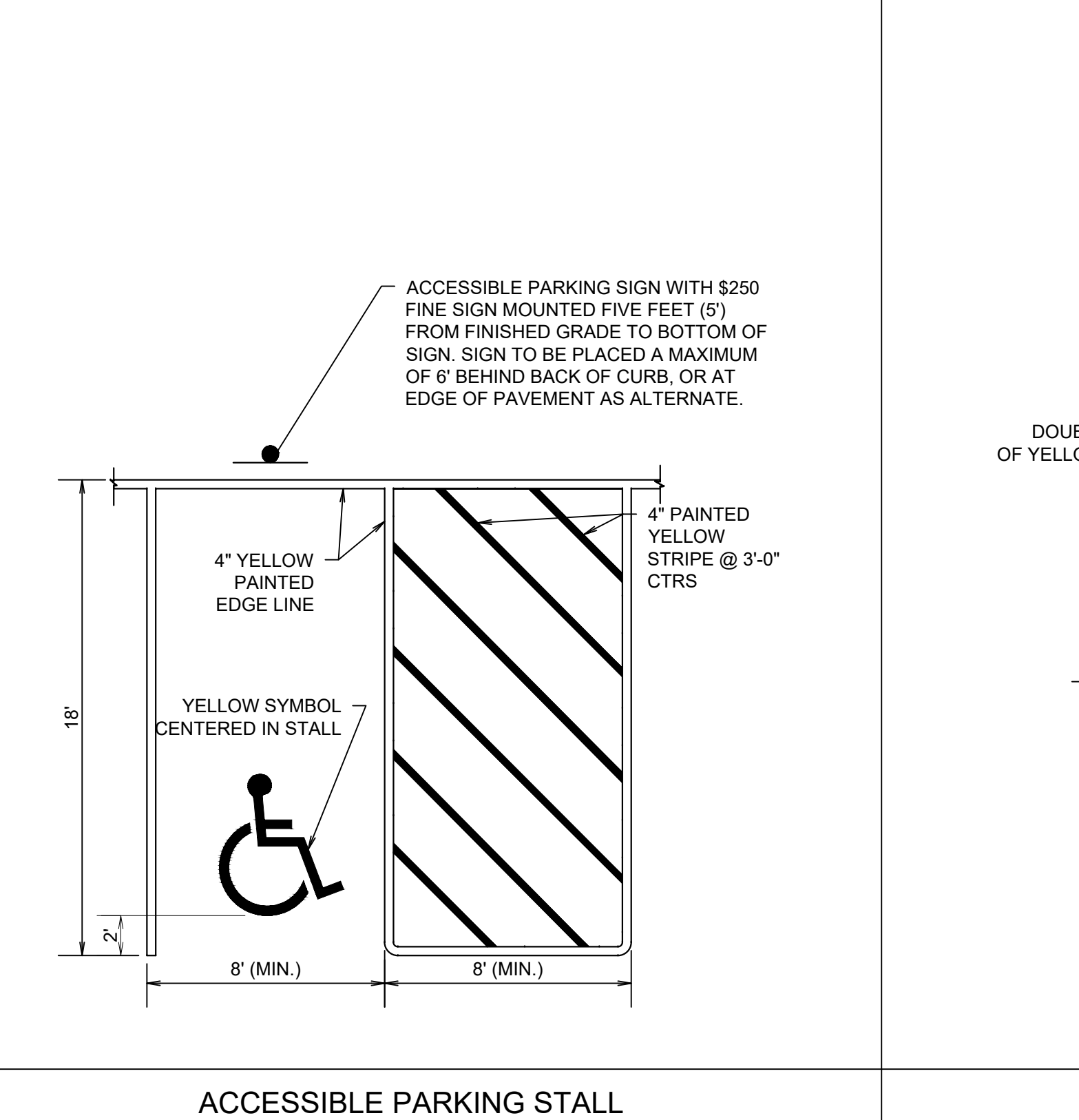
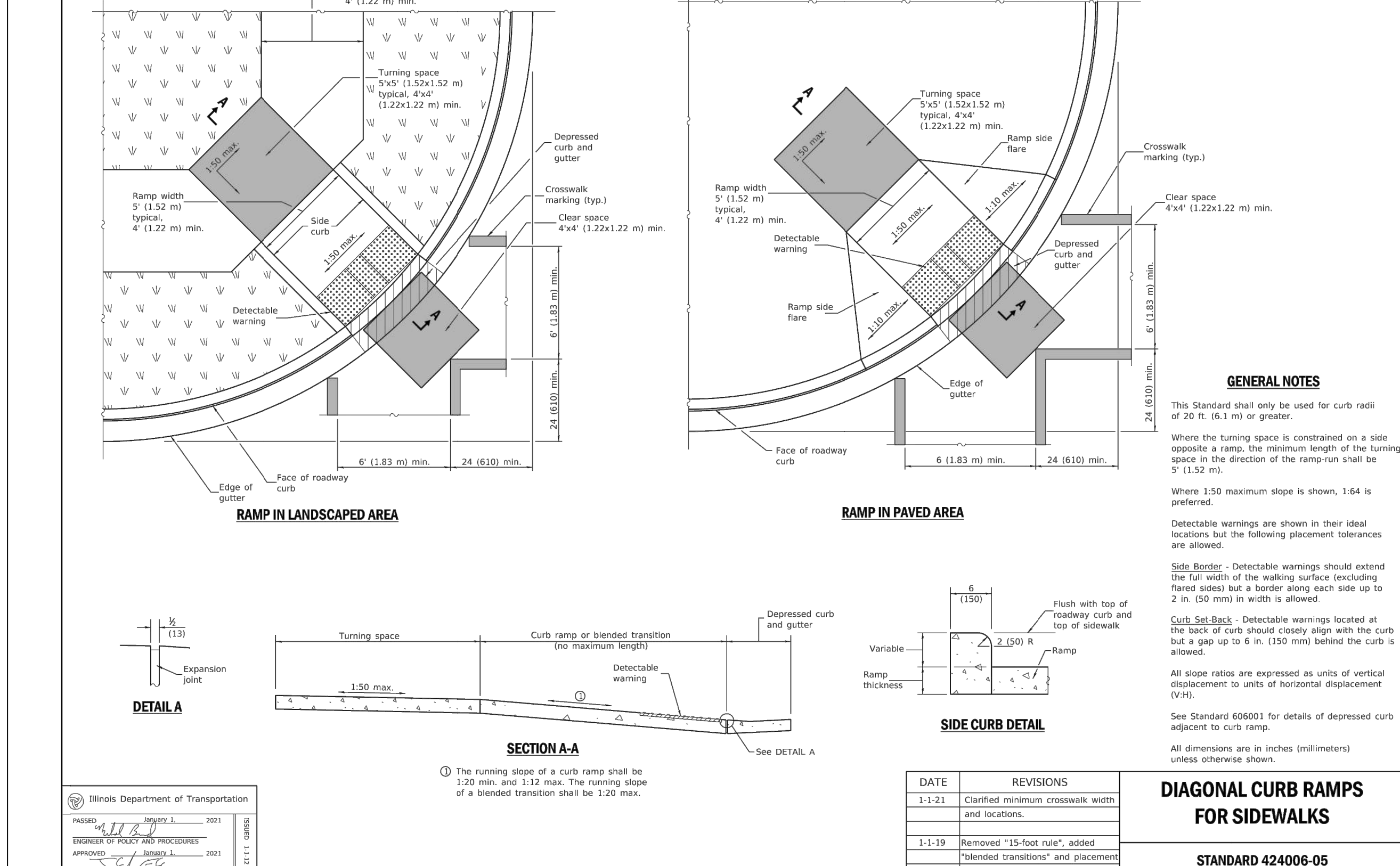
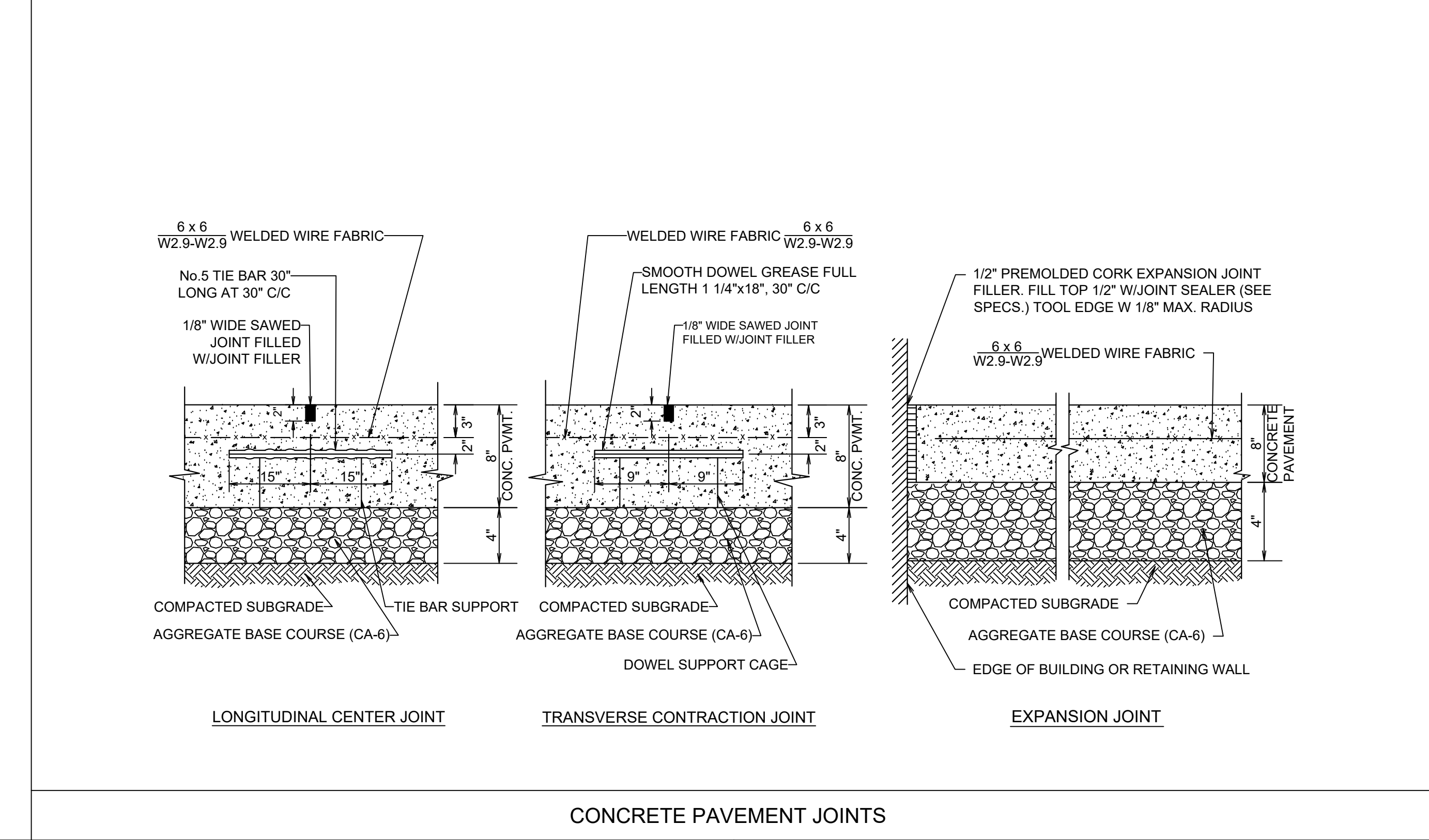
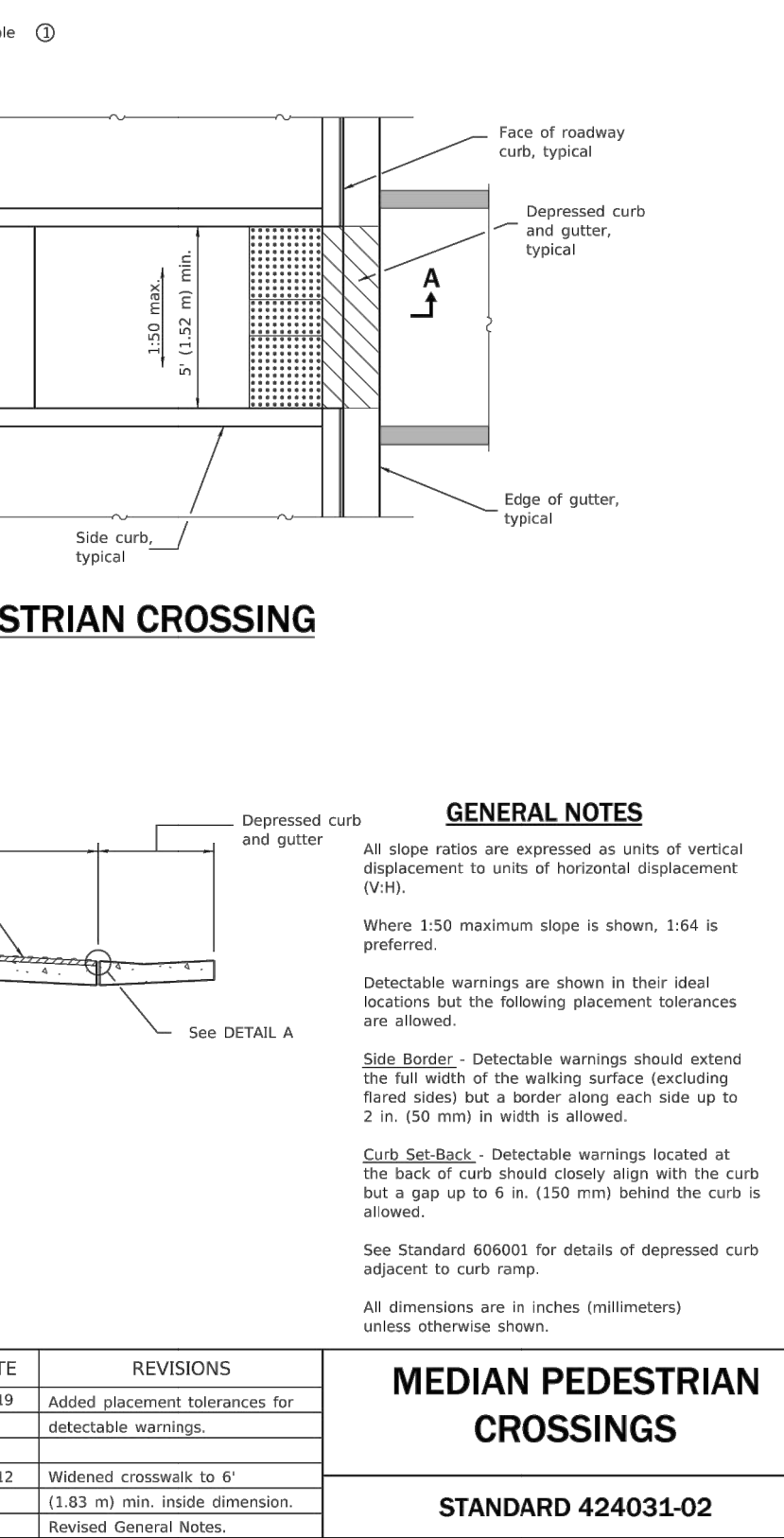
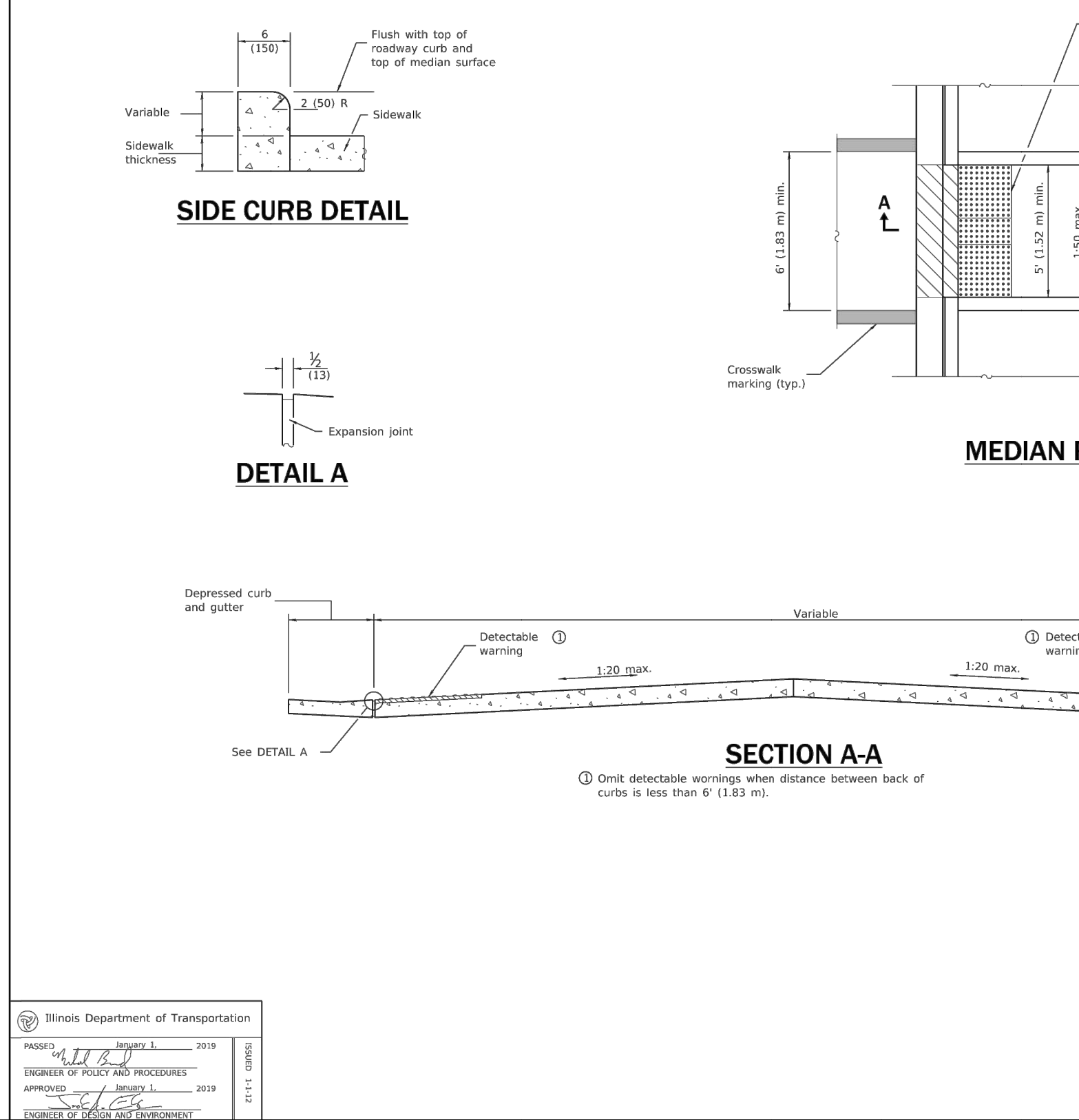
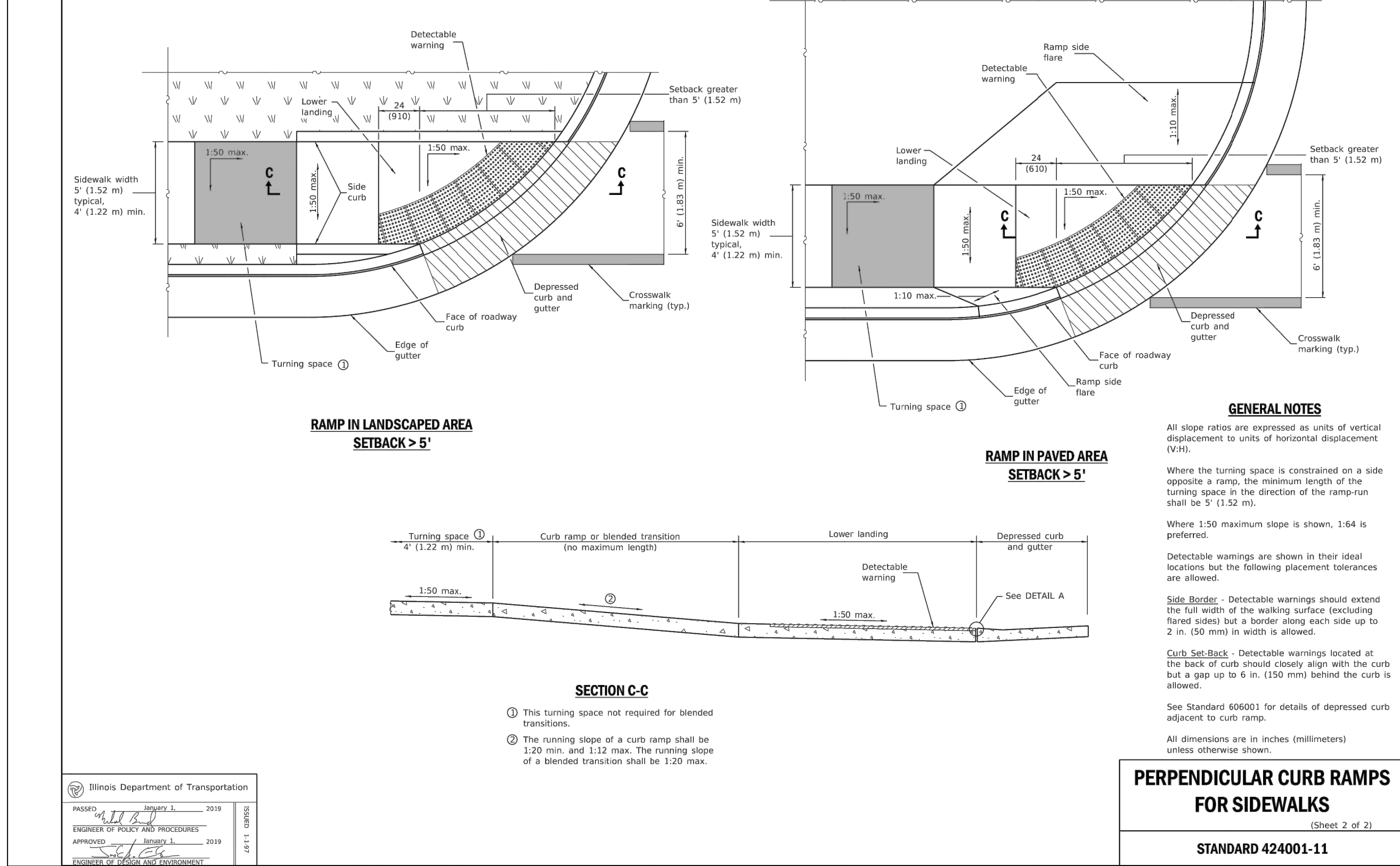
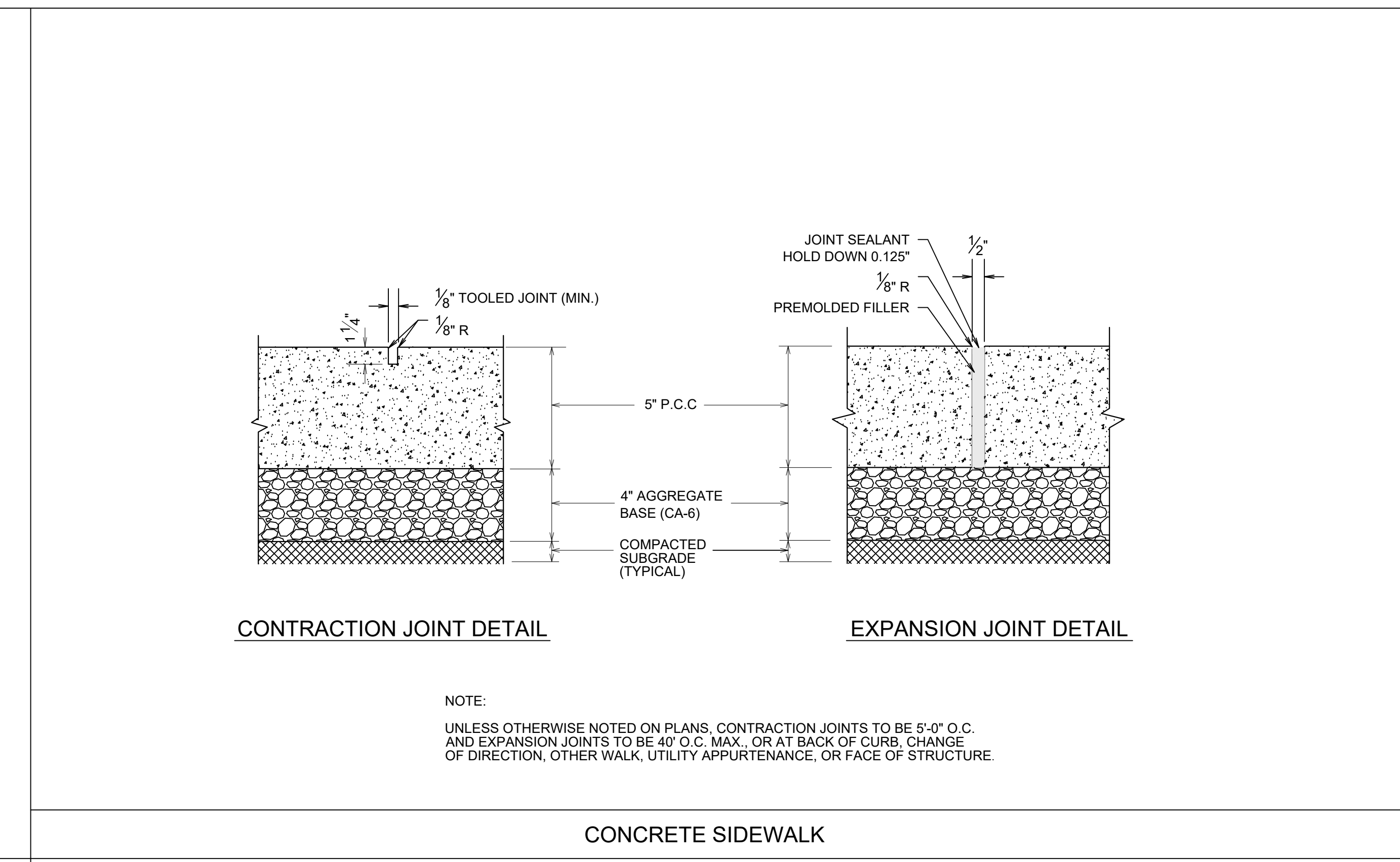
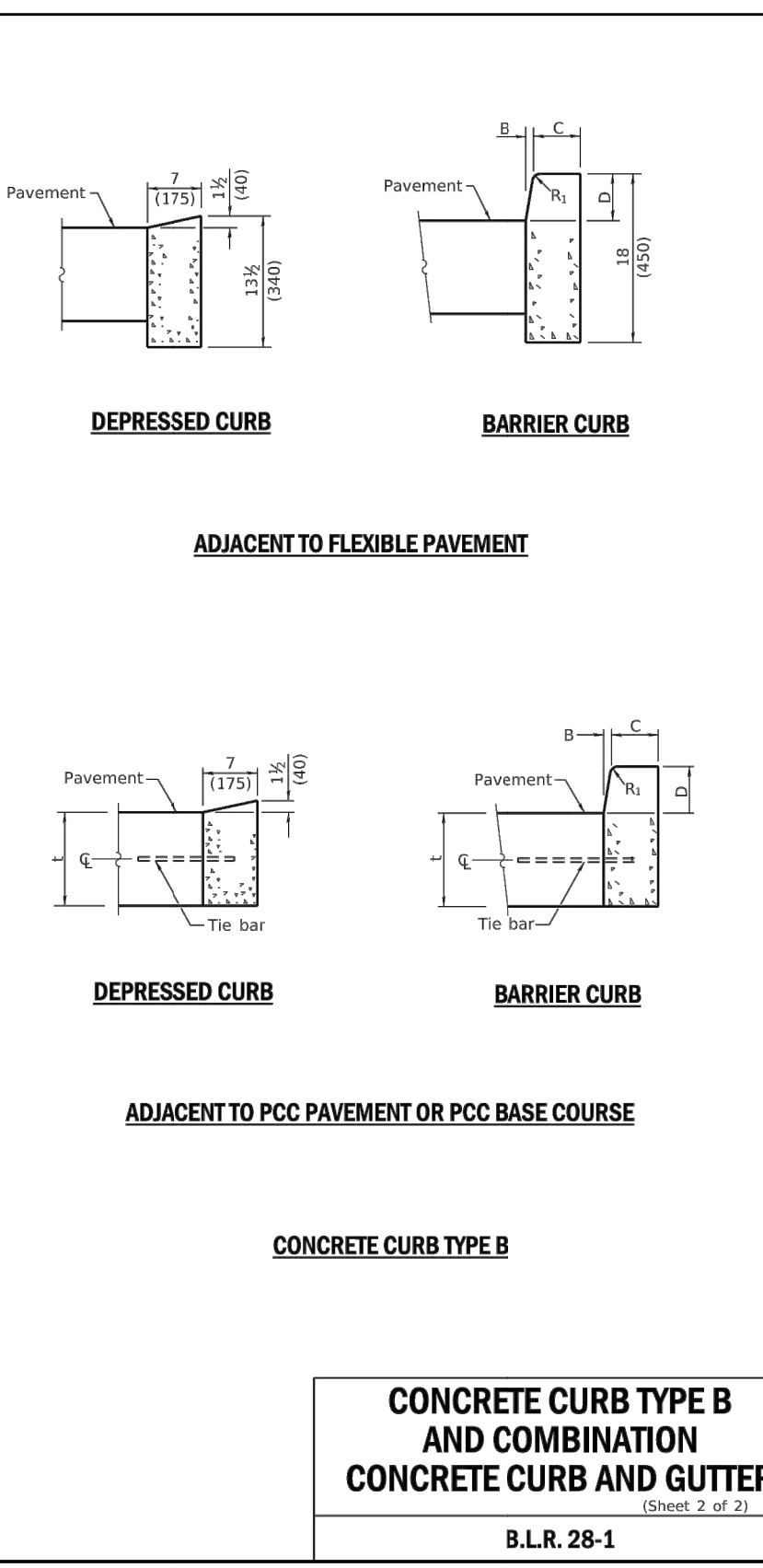
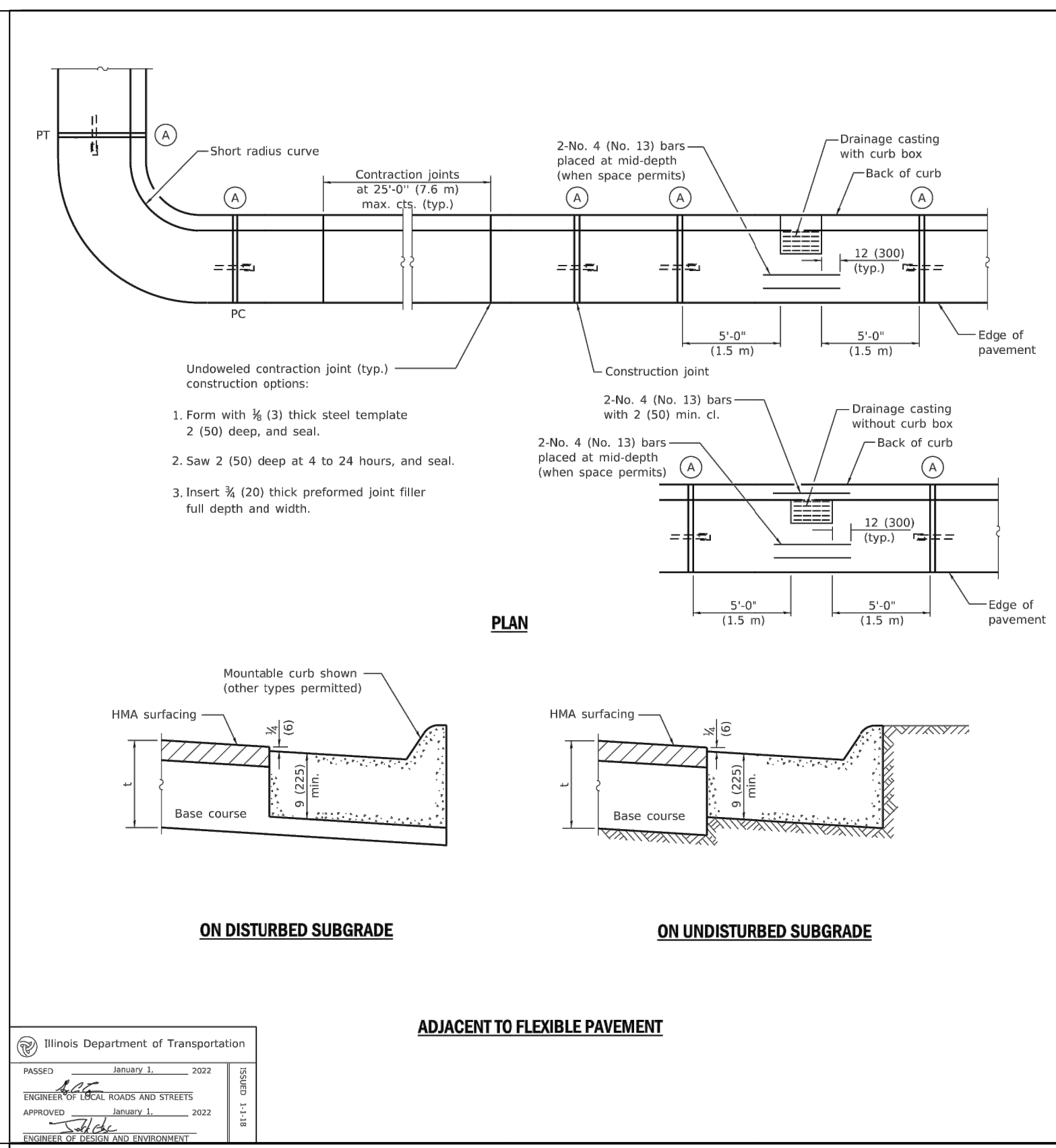
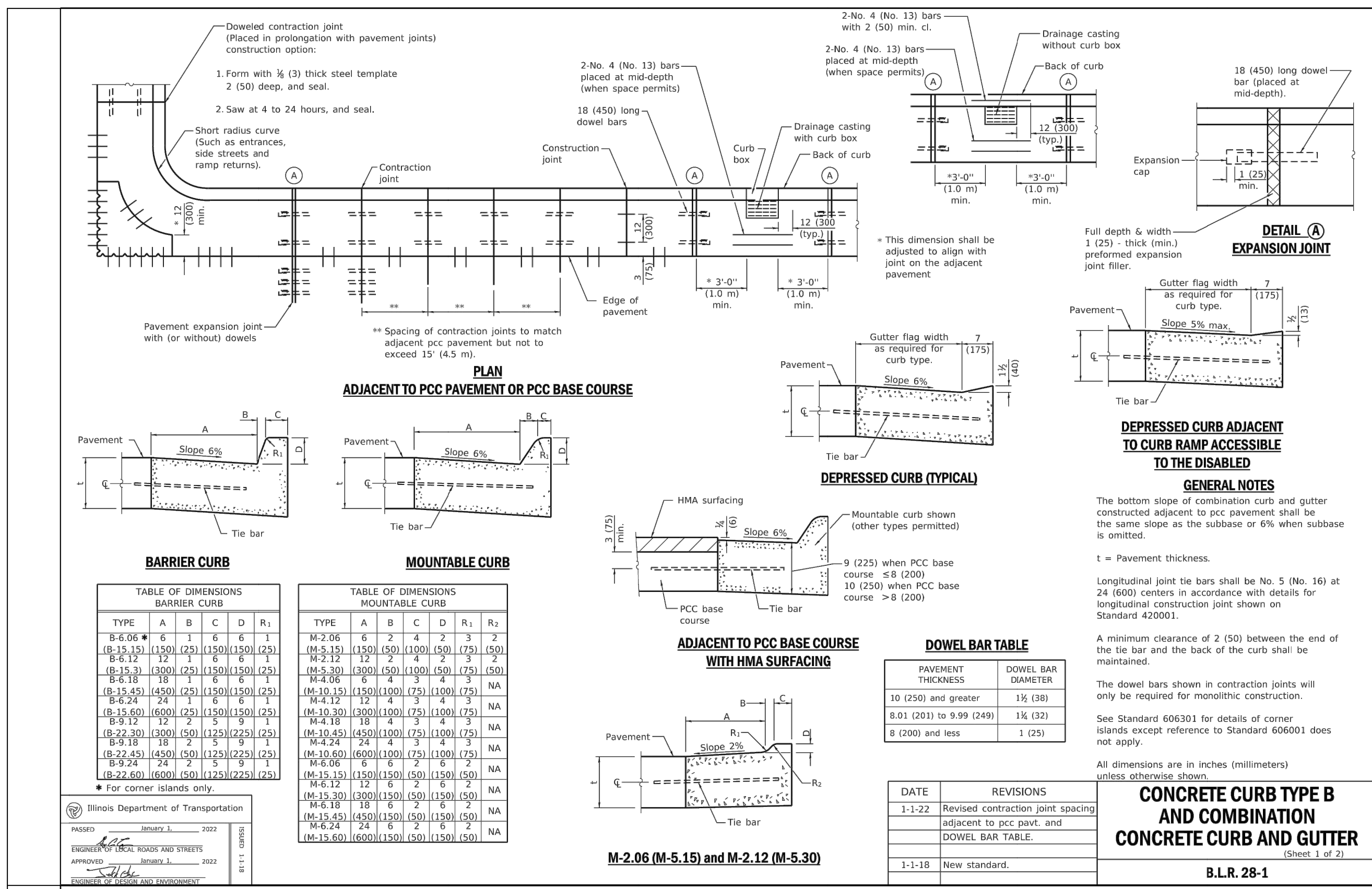
Clark Construction Group
216 S. Jefferson Street, Suite 502
Chicago, IL 60661
Tel: 312-474-5500

MECHANICAL DESIGN/BUILD CONTRACTOR

PLUMBING DESIGN/BUILD CONTRACTOR

ELECTRICAL DESIGN/BUILD CONTRACTOR

_____ FIRST PROTECTIVE DESIGN/BUILD CONTRACTOR FOR _____



CITY STAMP

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ILLINOIS REGISTERED CIVIL ENGINEER 0802 080588 EXPIRATION DATE: NOVEMBER 30, 2023

I CERTIFY THAT THESE DRAWINGS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY CONFORM TO THE VILLAGE OF ARLINGTON HEIGHTS BUILDING CODE.

4 10/20/2023 Village Comments
2 08/15/2023 90% CD's
2 07/25/2023 80% CD's
1 06/20/2023 50% CD's
No. Date Description

ARLINGTON HEIGHTS PHASE 1

2355 S. Arlington Heights Rd., Arlington Heights, IL 60005

OWNER
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Tel: 312-994-5700

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MECHANICAL, ELECTRICAL, PLUMBING DESIGN/BUILD CONTRACTOR

PLUMBING DESIGN/BUILD CONTRACTOR

ELECTRICAL DESIGN/BUILD CONTRACTOR

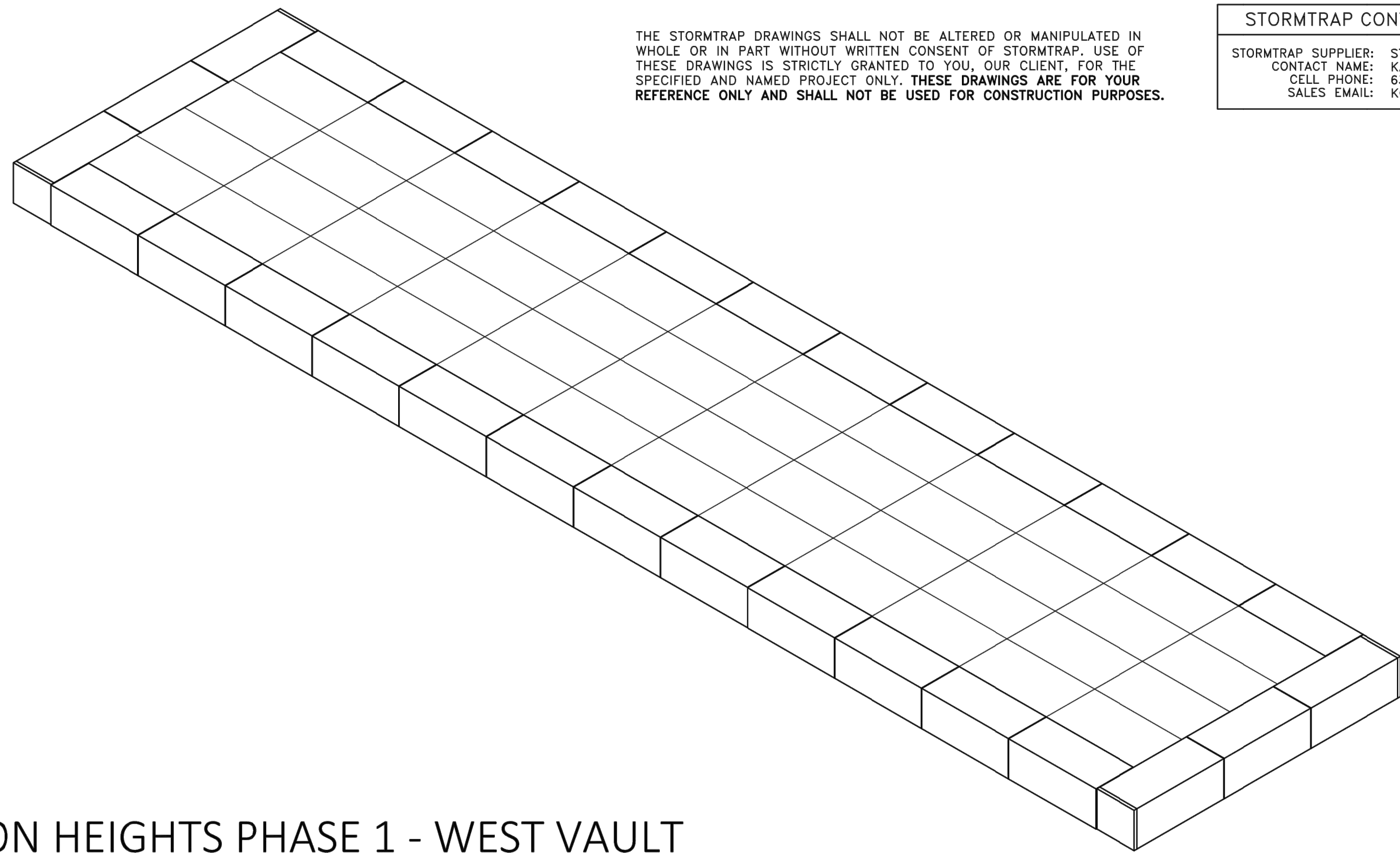
FIRE PROTECTION DESIGN/BUILD CONTRACTOR

SHEET TITLE
CONSTRUCTION DETAILS

DATE
AS NOTED

DATE
Project Issue Date

SHEET NUMBER
C6.0



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SHEET INDEX	
PAGE	DESCRIPTION
0.0	COVER SHEET
1.0	SINGLETRAP DESIGN CRITERIA
2.0	SINGLETRAP SYSTEM LAYOUT
3.0	SINGLETRAP INSTALLATION SPECIFICATIONS
3.1	SINGLETRAP INSTALLATION SPECIFICATIONS
4.0	SINGLETRAP BACKFILL SPECIFICATIONS
5.0	RECOMMENDED PVP/ACCESS OPENING SPECIFICATIONS
6.0	SPLASH PAD & GEOWEB DETAILS
7.0	SINGLETRAP MODULE TYPES
STORMTRAP CONTACT INFORMATION	
STORMTRAP SUPPLIER:	STORMTRAP
CONTACT NAME:	KATIE DAKES
CELL PHONE:	630-470-5214
SALES EMAIL:	KOMKES@STORMTRAP.COM

StormTrap®
NOTES LISTED AT: <http://STORMTRAP.COM/NOTES>
1287 WENHAM PARKWAY
ROMEOVILLE, IL 60446
P815-941-6549 / F331-318-5347

ENGINEER INFORMATION:
V3 Companies
7325 JANES AVE
Woodridge, IL
630-729-9200

PROJECT INFORMATION:
ARLINGTON HEIGHTS
PHASE 1
WEST VAULT
ARLINGTON HEIGHTS, IL
CURRENT ISSUE DATE:
10/19/2023
ISSUED FOR:
PRELIMINARY
REV. DATE: ISSUED FOR: DWN BY:
10/19/2023 PRELIMINARY JPH
2 9/13/2023 PRELIMINARY DS
1 7/7/2023 PRELIMINARY JH
SCALE:
NTS
SHEET TITLE:
COVER SHEET
SHEET NUMBER:
0.0

StormTrap®
NOTES LISTED AT: <http://STORMTRAP.COM/NOTES>
1287 WENHAM PARKWAY
ROMEOVILLE, IL 60446
P815-941-6549 / F331-318-5347

ENGINEER INFORMATION:
V3 Companies
7325 JANES AVE
Woodridge, IL
630-729-9200

PROJECT INFORMATION:
ARLINGTON HEIGHTS
PHASE 1
WEST VAULT
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1 7/7/2023 PRELIMINARY JH
SCALE:
NTS
SHEET TITLE:
SINGLETRAP LAYOUT DETAILS
SHEET NUMBER:
2.0

STRUCTURAL DESIGN LOADING CRITERIA
LIVE LOADING: AASHTO HS-25 HIGHWAY LOADING
GROUND WATER TABLE: BELOW INVERT OF SYSTEM
SOIL BEARING PRESSURE: 4000PSF
SOIL DENSITY: 120 PCF
EQUIVALENT UNSATURATED
LATERAL ACTIVE EARTH PRESSURE: 35 PSF / FT.
EQUIVALENT SATURATED
LATERAL ACTIVE EARTH PRESSURE: 80 PSF/FT. (IF WATER TABLE PRESENT)
APPLICABLE CODES: ASTM C857
ACI-318
BACKFILL TYPE: SEE SHEET 4.0 FOR BACKFILL OPTIONS

STORMTRAP SYSTEM INFORMATION
UNIT HEADROOM: 5'-8" SINGLETRAP

SITE SPECIFIC DESIGN CRITERIA

- STORMTRAP UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/ OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS AND SIZE OF OPENINGS.
- COVER RANGE: MIN. 1.50' MAX. 3.00' CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
- ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE REQUIRED TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.
- FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE BELOW INVERT OF SYSTEM IF WATER TABLE IS DIFFERENT THAN ASSUMED, CONTACT STORMTRAP.

VCBMP VOLUME CALCULATION

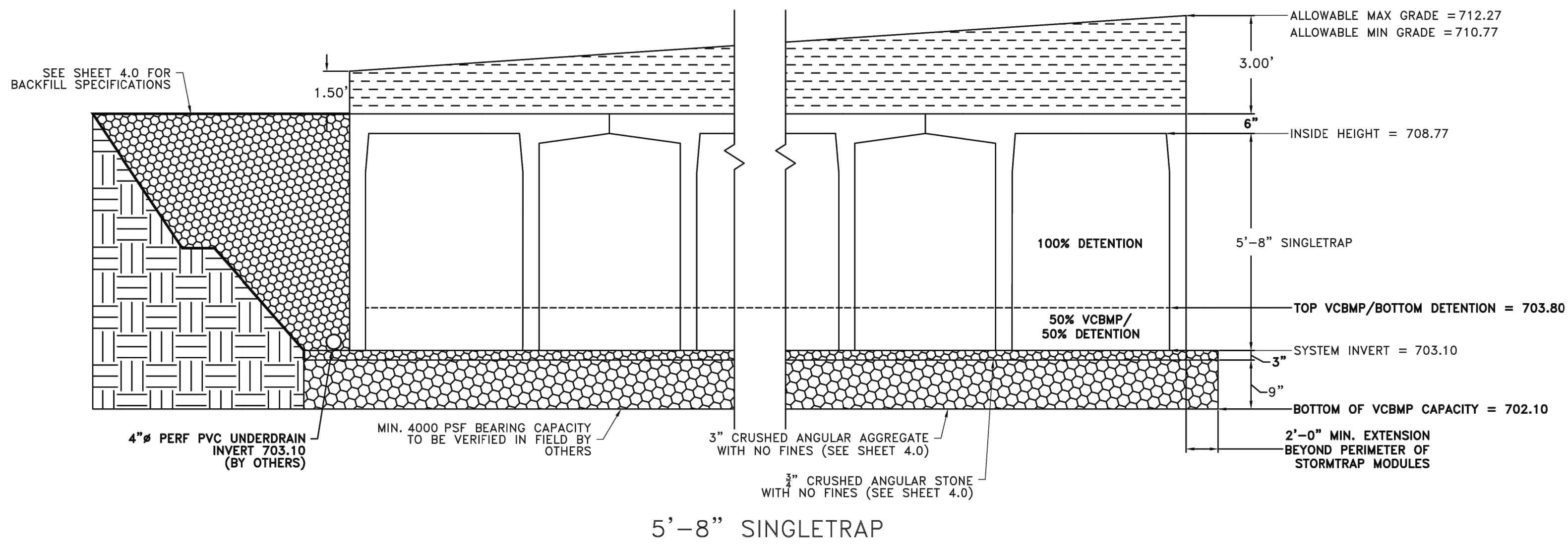
-VCBMP STORAGE PROVIDED = 2,928.29 CUBIC FEET
(ELEV 703.80 - ELEV 703.10, 50% WITHIN SYSTEM)
-VCBMP STORAGE PROVIDED = 3,726.54 CUBIC FEET
(ELEV 703.10 - ELEV 702.10, 50% WITHIN VOID)
-TOTAL VCBMP STORAGE PROVIDED = 6,654.82 CUBIC FEET

DETENTION VOLUME CALCULATION

-WATER STORAGE PROVIDED = 41,581.87 CUBIC FEET
(ELEV 708.77 - ELEV 703.80, 100% IN SYSTEM)
-WATER STORAGE PROVIDED = 2,928.29 CUBIC FEET
(ELEV 703.80 - ELEV 703.10, 50% WITHIN SYSTEM)
-TOTAL WATER STORAGE PROVIDED = 44,509.95 CUBIC FEET

SEASONAL HIGH WATER TABLE

-SHWT = 700.00' (ELEVATION)
*TO BE VERIFIED BY OTHERS
-VCBMP BOTTOM TO SHWT = 2.10' (DISTANCE)
-AMOUNT OF NATIVE SOIL ABOVE SHWT = 2.10' (DISTANCE)



DESIGN CRITERIA
ALLOWABLE MAX GRADE = 712.27
ALLOWABLE MIN GRADE = 710.77
INSIDE HEIGHT ELEVATION = 708.77
SYSTEM INVERT = 703.10

NOTES:
1. DIMENSIONING OF STORMTRAP SYSTEM SHOWN BELOW ALLOW FOR A 3/4" GAP BETWEEN EACH MODULE.
2. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
3. SEE SHEET 3.0 FOR INSTALLATION SPECIFICATIONS.
4. SEE SHEETS 6.0 & 6.1 FOR SPLASH PAD DETAILS AND LAYOUT.
5. SP - INDICATES A MODULE WITH MODIFICATIONS.
6. P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
7. CONTRACTORS RESPONSIBILITY TO ENSURE CONSISTENCY/ACCURACY TO FINAL ENGINEER OF RECORD PLAN SET.

LOADING DISCLAIMER:

STORMTRAP IS NOT DESIGNED TO ACCEPT ANY ADDITIONAL LOADINGS FROM NEARBY STRUCTURES NEXT TO OR OVER THE TOP OF STORMTRAP. IF ADDITIONAL LOADING CONSIDERATIONS ARE REQUIRED FOR STRUCTURAL DESIGN OF STORMTRAP, PLEASE CONTACT STORMTRAP IMMEDIATELY.

TREE LOADING DISCLAIMER:

THE STORMTRAP SYSTEM HAS NOT BEEN DESIGNED TO SUPPORT THE ADDITIONAL WEIGHT OF ANY TREES. FURTHERMORE, THE ROOTS OF THE TREES MUST BE CONTAINED TO PREVENT FUTURE DAMAGE TO THE STORMTRAP SYSTEM. STORMTRAP ACCEPTS NO LIABILITY FOR DAMAGES CAUSED BY TREES OR OTHER VEGETATION PLACED AROUND OR ON TOP OF THE SYSTEM.

BILL OF MATERIALS				
QTY.	UNIT TYPE	DESCRIPTION	WEIGHT	
0	I	5'-8" SINGLETRAP	0	
48	II	5'-8" SINGLETRAP	18762	
0	III	5'-8" SINGLETRAP	0	
30	IV	5'-8" SINGLETRAP	17685	
0	VII	5'-8" SINGLETRAP	0	
0	SP1V	5'-8" SINGLETRAP	VARIES	
0	T2	PANEL 6" THICK, PANEL	0	
4	T4	PANEL 6" THICK, PANEL	3065	
0	T7	PANEL 6" THICK, PANEL	0	
15	JOINTWRAP	150' PER ROLL		
0	JOINTTAPE	14.5' PER ROLL		
TOTAL PIECES = 78				
TOTAL PANELS = 4				
HEAVIEST PICK WEIGHT = 18,762				

188'-0"															
IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV
IV	II	II	II	II	II	II	II	II	II	II	II	II	II	II	IV
IV	II	II	II	II	II	II	II	II	II	II	II	II	II	II	IV
IV	II	II	II	II	II	II	II	II	II	II	II	II	II	II	IV
IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV

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ILLINOIS
STEVEN KRANENBURG
REGISTERED CIVIL ENGINEER
#002-08558
EXPIRATION DATE:
NOVEMBER 30, 2023
I CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR MY DIRECT SUPERVISOR AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY TO THE VILLAGE OF ARLINGTON HEIGHTS BUILDING CODE.

REV.	DATE	ISSUED FOR	DWN BY
1	10/19/2023	PRELIMINARY	JPH
2	9/13/2023	PRELIMINARY	DS
1	7/7/2023	PRELIMINARY	JH
SCALE:			
NTS			
SHEET TITLE:			
SINGLETRAP DESIGN CRITERIA			
SHEET NUMBER:			
1.0			

ARLINGTON HEIGHTS PHASE 1

2355 S. Arlington Heights Rd.,
Arlington Heights, IL 60005

OWNER
Bradford Allen
305 S. Wacker Dr. 35th Floor
Chicago, IL 60606
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DESIGNER
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Tel: 312-423-7889

CONSTRUCTION MANAGER
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145 S. Wabash St. Suite 700
Chicago, IL 60606
Tel: 312-423-7889

ARCHITECT
TR Management + Consulting
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Chicago, IL 60606
Tel: 312-423-7889

LANDSCAPE ARCHITECT
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Tel: 630-724-6200

STRUCTURAL ENGINEER
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PLUMBING DESIGN/BUILD CONTRACTOR

ELECTRICAL DESIGN/BUILD CONTRACTOR

FIRE PROTECTION DESIGN/BUILD CONTRACTOR

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