

ARLINGTON HEIGHTS INDUSTRIAL
ARLINGTON HEIGHTS, ILLINOIS
DEMOLITION PLAN - PHASE 1

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



PROJECT NO. 32212717
DATE 10/12/17
SCALE 1"=30'
PROJ. MGR. PDL
PROJ. ASSOC. RWG
DRAWN BY TLM

SHEET
4 OF 20

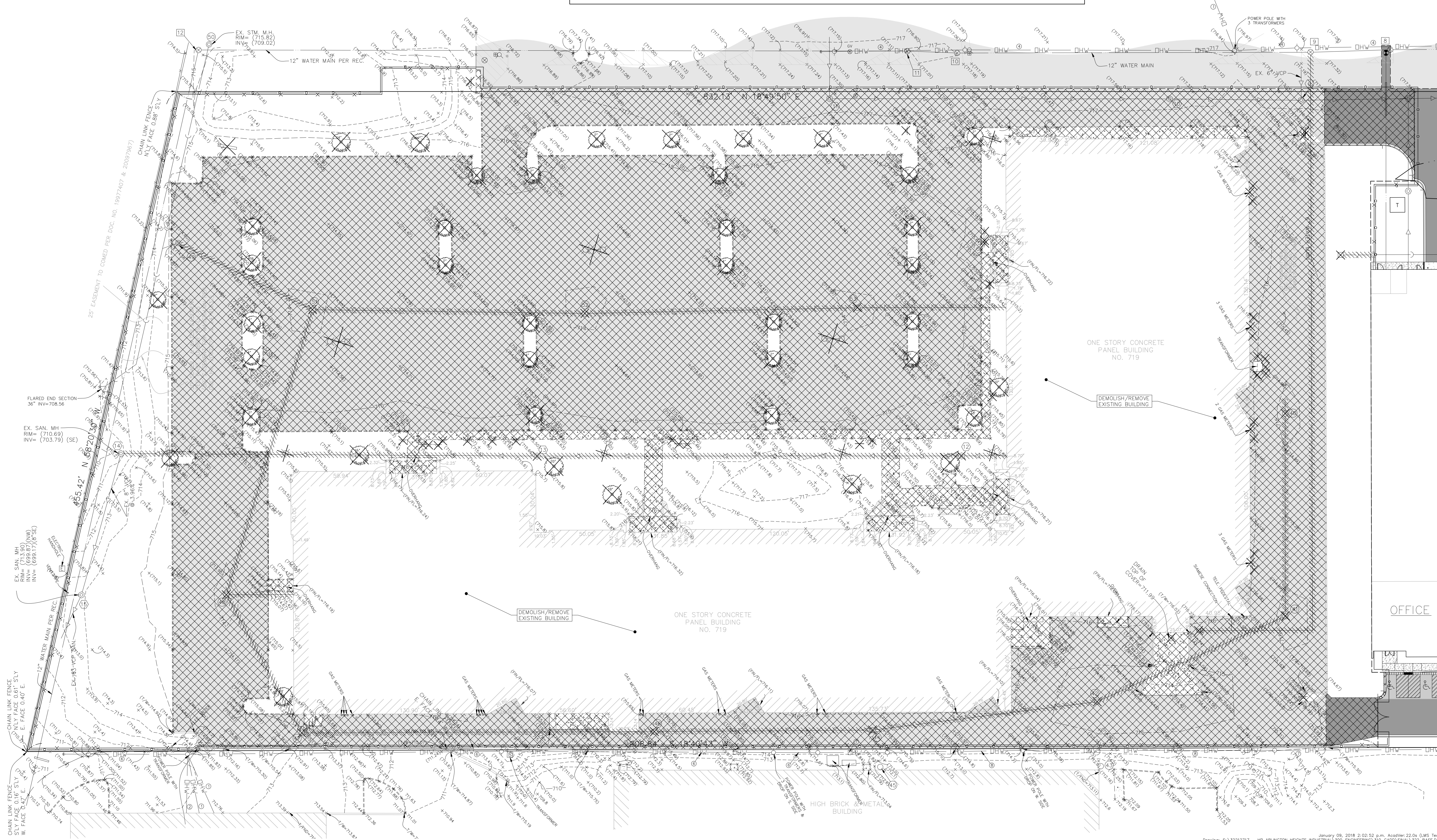
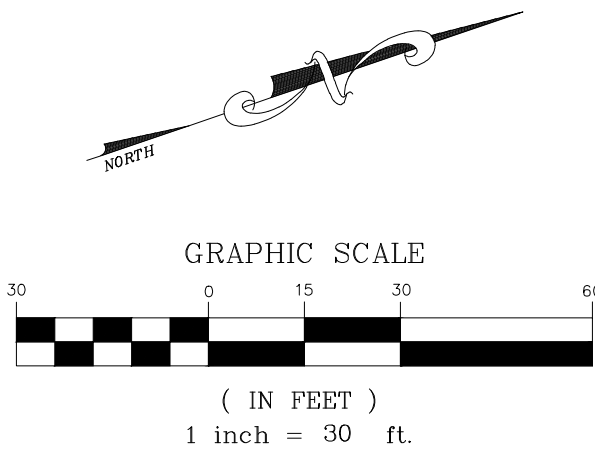
DATE	REVISIONS	DRAWN BY
12/05/17	VILLAGE ROUND ONE COMMENTS	TLM
07/09/18	VILLAGE ROUND TWO COMMENTS	TLM

DEMOLITION NOTES:

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

DEMOLITION LEGEND

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



ARLINGTON HEIGHTS INDUSTRIAL
ARLINGTON HEIGHTS, ILLINOIS
DEMOLITION PLAN - PHASE 2

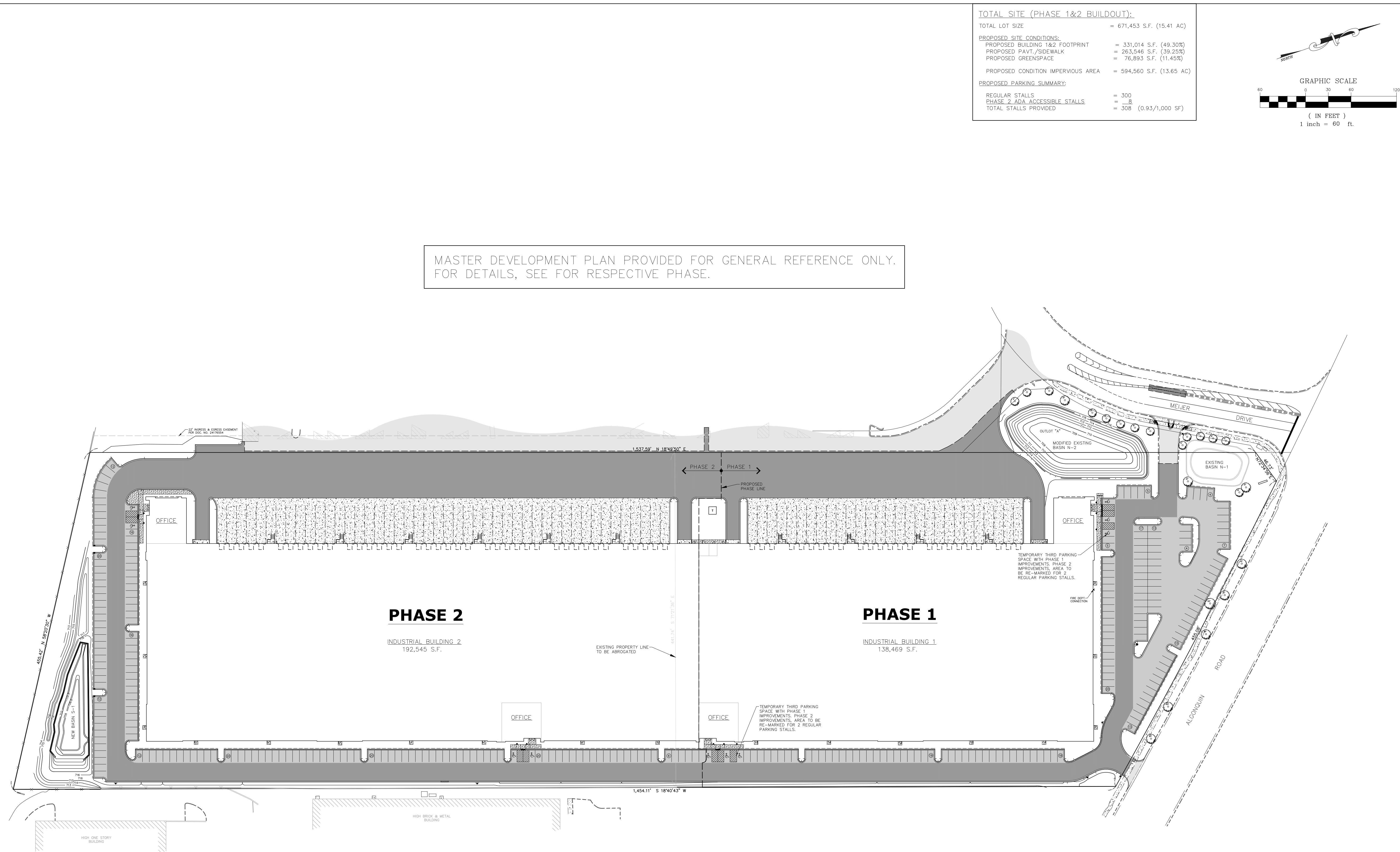
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RWG
Engineering, LLC
Civil Engineering • Real Estate Consulting • Project Management

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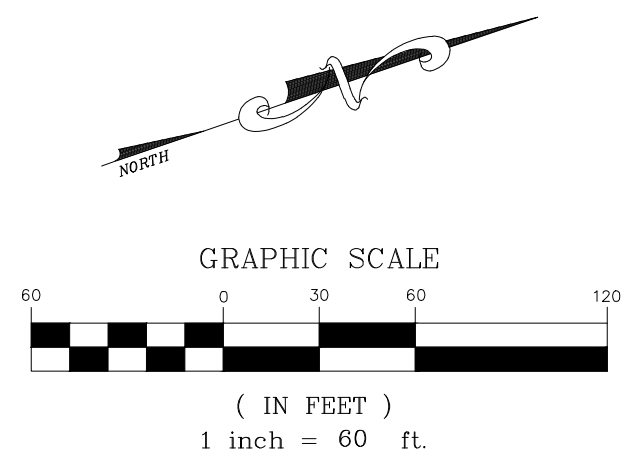
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MASTER DEVELOPMENT PLAN PROVIDED FOR GENERAL REFERENCE ONLY.
FOR DETAILS, SEE FOR RESPECTIVE PHASE.

TOTAL SITE (PHASE 1&2 BUILDOUT):	
TOTAL LOT SIZE	= 671,453 S.F. (15.41 AC)
PROPOSED SITE CONDITIONS:	
PROPOSED BUILDING 1&2 FOOTPRINT	= 331,014 S.F. (49.30%)
PROPOSED PAVT./SIDEWALK	= 263,546 S.F. (39.25%)
PROPOSED GREENSPACE	= 76,893 S.F. (11.45%)
PROPOSED CONDITION IMPERVIOUS AREA	= 594,560 S.F. (13.65 AC)
PROPOSED PARKING SUMMARY:	
REGULAR STALLS	= 300
PHASE 2 ADA ACCESSIBLE STALLS	= 8
TOTAL STALLS PROVIDED	= 308 (0.93/1,000 SF)



ARLINGTON HEIGHTS INDUSTRIAL
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MASTER DEVELOPMENT PLAN - PHASE 1 & 2

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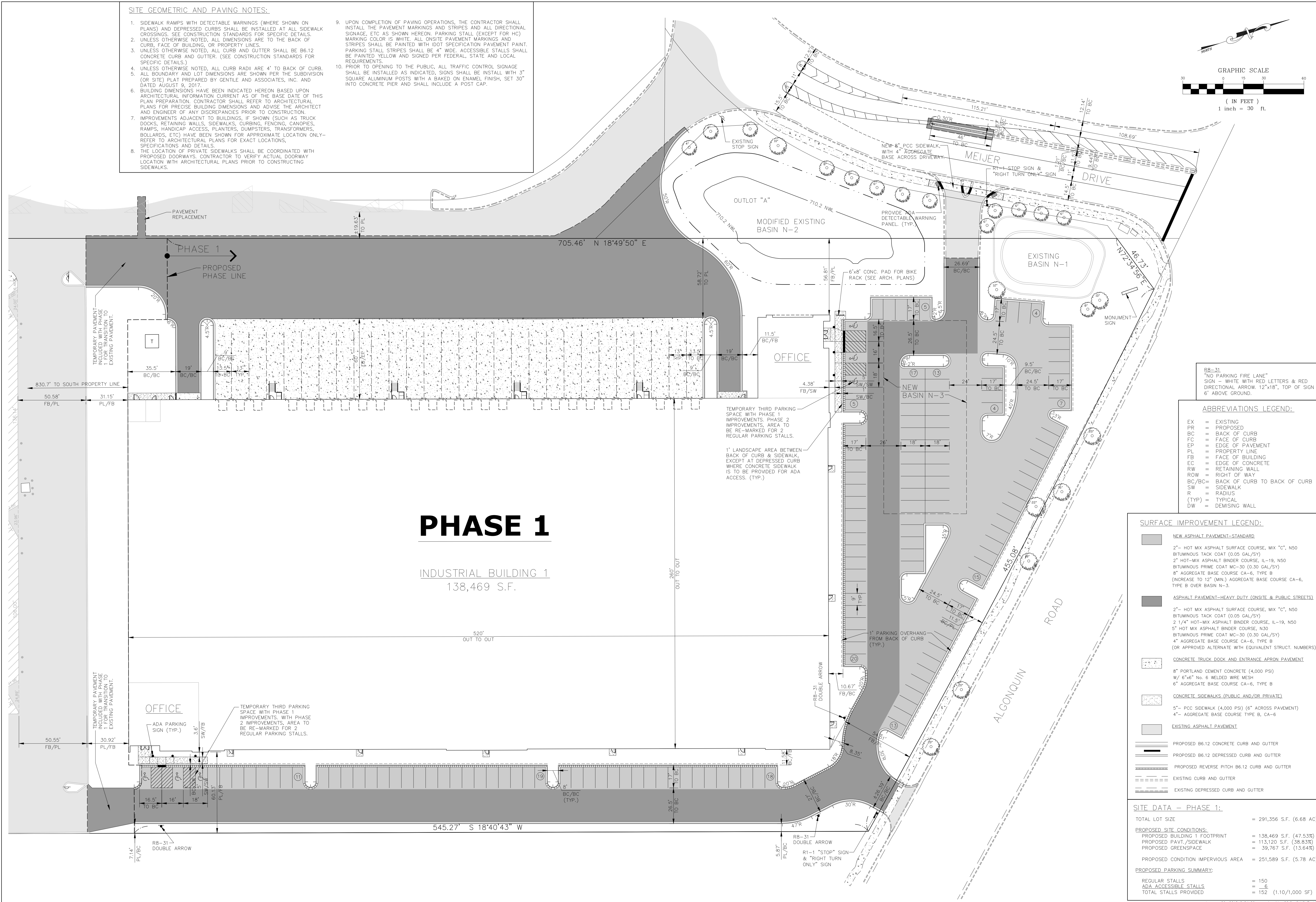
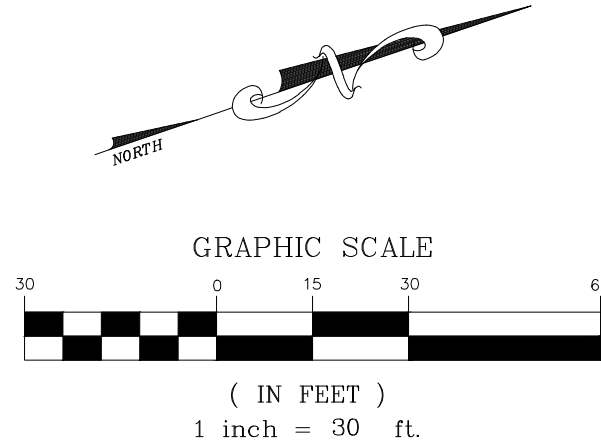
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SITE GEOMETRIC AND PAVING NOTES:

1. SIDEWALK RAMPS WITH DETECTABLE WARNINGS (WHERE SHOWN ON PLANS) AND DEPRESSED CURBS SHALL BE INSTALLED AT ALL SIDEWALK CROSSINGS. SEE CONSTRUCTION STANDARDS FOR SPECIFIC DETAILS.
2. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE BACK OF CURB, FACE OF BUILDING, OR PROPERTY LINES.
3. UNLESS OTHERWISE NOTED, ALL CURB AND GUTTER SHALL BE B6.12 CONCRETE CURB AND GUTTER. (SEE CONSTRUCTION STANDARDS FOR SPECIFIC DETAILS.)
4. UNLESS OTHERWISE NOTED, ALL CURB RADII ARE 4' TO BACK OF CURB.
5. ALL BOUNDARY AND LOT DIMENSIONS ARE SHOWN PER THE SUBDIVISION (OR SITE) PLAT PREPARED BY GENTILE AND ASSOCIATES, INC. AND DATED AUGUST 9, 2017.
6. BUILDING DIMENSIONS HAVE BEEN INDICATED HEREON BASED UPON ARCHITECTURAL INFORMATION CURRENT AS OF THE BASE DATE OF THIS PLAN PREPARATION. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND ADVISE THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
7. IMPROVEMENTS ADJACENT TO BUILDINGS, IF SHOWN (SUCH AS TRUCK DOCKS, RETAINING WALLS, SIDEWALKS, CURBING, FENCING, CANOPIES, RAMPS, HANDICAP ACCESS, PLANTERS, DUMPSTERS, TRANSFORMERS, BOLLARDS, ETC) HAVE BEEN SHOWN FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS, SPECIFICATIONS AND DETAILS.
8. THE LOCATION OF PRIVATE SIDEWALKS SHALL BE COORDINATED WITH PROPOSED DOORWAYS. CONTRACTOR TO VERIFY ACTUAL DOORWAY LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTING SIDEWALKS.
9. UPON COMPLETION OF PAVING OPERATIONS, THE CONTRACTOR SHALL INSTALL THE PAVEMENT MARKINGS AND STRIPES AND ALL DIRECTIONAL SIGNAGE, ETC AS SHOWN HEREON. PARKING STALL (EXCEPT FOR HC) MARKING COLOR IS WHITE. ALL ONSITE PAVEMENT MARKINGS AND STRIPES SHALL BE PAINTED WITH IDOT SPECIFICATION PAVEMENT PAINT. PARKING STALL STRIPES SHALL BE 4" WIDE. ACCESSIBLE STALLS SHALL BE PAINTED YELLOW AND SIGNED PER FEDERAL, STATE AND LOCAL REQUIREMENTS.
10. PRIOR TO OPENING TO THE PUBLIC, ALL TRAFFIC CONTROL SIGNAGE SHALL BE INSTALLED AS INDICATED. SIGNS SHALL BE INSTALL WITH 3" SQUARE ALUMINUM POSTS WITH A BAKED ON ENAMEL FINISH, SET 30" INTO CONCRETE PIER AND SHALL INCLUDE A POST CAP.



PHASE 1

INDUSTRIAL BUILDING 1
138,469 S.F.

ABBREVIATIONS LEGEND:

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

SURFACE IMPROVEMENT LEGEND:

- NEW ASPHALT PAVEMENT-STANDARD
 - 2"- HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 BITUMINOUS TACK COAT (0.05 GAL/SY)
 - 2" HOT-MIX ASPHALT BINDER COURSE, IL-19, N50 BITUMINOUS PRIME COAT MC-30 (0.30 GAL/SY)
 - 8" AGGREGATE BASE COURSE CA-6, TYPE B (INCREASE TO 12" (MIN.) AGGREGATE BASE COURSE CA-6, TYPE B OVER BASIN N-3.
- ASPHALT PAVEMENT-HEAVY DUTY (ONSITE & PUBLIC STREETS)
 - 2"- HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 BITUMINOUS TACK COAT (0.05 GAL/SY)
 - 2 1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19, N50 5" HOT MIX ASPHALT BINDER COURSE, N30 BITUMINOUS PRIME COAT MC-30 (0.30 GAL/SY)
 - 4" AGGREGATE BASE COURSE CA-6, TYPE B (OR APPROVED ALTERNATE WITH EQUIVALENT STRUCT. NUMBERS)
- CONCRETE TRUCK DOCK AND ENTRANCE APRON PAVEMENT
 - 6" PORTLAND CEMENT CONCRETE (4,000 PSI) W/ 6"x6" No. 6 WELDED WIRE MESH
 - 6" AGGREGATE BASE COURSE CA-6, TYPE B
- CONCRETE SIDEWALKS (PUBLIC AND/OR PRIVATE)
 - 5"- PCC SIDEWALK (4,000 PSI) (6" ACROSS PAVEMENT)
 - 4"- AGGREGATE BASE COURSE TYPE B, CA-6
- EXISTING ASPHALT PAVEMENT
- PROPOSED B6.12 CONCRETE CURB AND GUTTER
- PROPOSED B6.12 DEPRESSED CURB AND GUTTER
- PROPOSED REVERSE PITCH B6.12 CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING DEPRESSED CURB AND GUTTER

SITE DATA - PHASE 1:

TOTAL LOT SIZE	= 291,356 S.F. (6.68 AC)
PROPOSED SITE CONDITIONS:	
PROPOSED BUILDING 1 FOOTPRINT	= 138,469 S.F. (47.53%)
PROPOSED PAVT./SIDEWALK	= 113,120 S.F. (38.83%)
PROPOSED GREENSPACE	= 39,767 S.F. (13.64%)
PROPOSED CONDITION IMPERVIOUS AREA	= 251,589 S.F. (5.78 AC)
PROPOSED PARKING SUMMARY:	
REGULAR STALLS	= 150
ADA ACCESSIBLE STALLS	= 6
TOTAL STALLS PROVIDED	= 152 (1.10/1,000 SF)

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SITE GEOMETRIC AND PAVING PLAN - PHASE 1

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1. SIDEWALK RAMPS WITH DETECTABLE WARNINGS (WHERE SHOWN ON PLAN) AND DERESSED CURBS SHALL BE INSTALLED AT ALL SIDEWALK CROSSINGS. SEE STANDARD SPECIFICATIONS FOR DETECTABLE RAILS.
2. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE BACK OF CURB, FACE OF BUILDING, OR PROPERTY LINES.
3. UNLESS OTHERWISE NOTED, ALL CURB AND GUTTER SHALL BE B612 CONCRETE CURB AND GUTTER. (SEE CONSTRUCTION STANDARDS FOR SPECIFIC DETAILS).
4. UNLESS OTHERWISE NOTED, ALL CURB RADII ARE 4' TO BACK OF CURB. ALL BOUNDARY AND LOT DIMENSIONS ARE SHOWN PER THE SUBDIVISION PLAT PREPARED BY GENTILE AND ASSOCIATES, INC. AND DATED AUGUST 9, 2017.
5. BUILDING DIMENSIONS HAVE BEEN INDICATED HEREON BASED UPON ARCHITECTURAL INFORMATION CURRENT AS OF THE BASE DATE OF THIS CONSTRUCTION. PREPARATION OF ARCHITECTURAL INFORMATION AND ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND ADVISE THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
6. IMPROVEMENTS ADJACENT TO BUILDINGS (E.G. SIDEWALKS, DRIVEWAYS, FENCING, HANDICAP ACCESS, PLANTERS, DUMPSTERS, TRANSFORMERS, BOLLARDS, ETC) HAVE BEEN SHOWN FOR APPROXIMATE LOCATION ONLY. THE ARCHITECT HAS PROVIDED THE EXACT LOCATIONS, SPECIFICATIONS AND DETAILS.
7. THE LOCATION OF PRIVATE SIDEWALKS SHALL BE COORDINATED WITH PROPOSED DRIVEWAYS. CONTRACTOR TO VERIFY ACTUAL LOCATION OF SIDEWALK WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTING SIDEWALKS.

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3. UNLESS OTHERWISE NOTED, ALL CURB AND GUTTER SHALL BE B612 CURB AND GUTTER. (SEE CONSTRUCTION STANDARDS FOR SPECIFIC DETAILS.)
4. UNLESS OTHERWISE NOTED, ALL CURB RADII ARE 4' TO BACK OF CURB. ALL BOUNDARY AND LOT DIMENSIONS ARE SHOWN PER THE SUBDIVISION OF THE PLAT PREPARED BY GENTILE AND ASSOCIATES, INC. AND DATED AUGUST 9, 2017.
5. BUILDING DIMENSIONS HAVE BEEN INDICATED HEREON BASED UPON ARCHITECTURAL INFORMATION CURRENT AS OF THE BASE DATE OF THIS PLAN PREPARATION. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND ADVISE THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
6. IMPROVEMENTS ADJACENT TO BUILDINGS ARE SHOWN (SUCH AS TRUCK DOCKS, RETAINING WALLS, SIDEWALKS, CURBING, FENCING, CANOPIES, RAMPS, HANDICAP ACCESS, PLANTERS, DUMPSTERS, TRANSFORMERS, BOLLARDS, ETC.) HAVE BEEN SHOWN FOR APPROXIMATE LOCATION ONLY—REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS, SPECIFICATIONS AND DETAILS.
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9. PRIOR TO OPENING TO THE PUBLIC, ALL TRAFFIC CONTROL SIGNAGE SHALL BE INSTALLED AS INDICATED. SIGNS SHALL BE INSTALL WITH 3" SQUARE ALUMINUM POSTS WITH A BAKED ON ENAMEL FINISH, SET 30" INTO CONCRETE PIER AND SHALL INCLUDE A POST CAP.

NEW ASPHALT PAVEMENT—STANDARD

2"— HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50
BITUMINOUS TACK COAT (0.05 GAL/SY)
2"— HOT-MIX ASPHALT BINDER COURSE, IL-19, N50
BITUMINOUS PRIME COAT MC-30 (0.30 GAL/SY)
8" AGGREGATE BASE COURSE CA-6, TYPE B
(INCREASE TO 12" (MIN.) AGGREGATE BASE COURSE CA-6,
TYPE B OVER BASINS 3-2, S-3, AND S-4.

ASPHALT PAVEMENT—HEAVY DUTY (ONSITE & PUBLIC STREETS)

2"— HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50
BITUMINOUS TACK COAT (0.05 GAL/SY)
2.4"— HOT-MIX ASPHALT BINDER COURSE, IL-19, N50
5" HOT MIX ASPHALT BINDER COURSE, N30
BITUMINOUS PRIME COAT MC-30 (0.30 GAL/SY)
4" AGGREGATE BASE COURSE CA-6, TYPE B
(OR APPROPRIATE ALTERNATE WITH EQUIVALENT STRUCT. NUMBER)

NEW ASPHALT PAVEMENT—STANDARD

2"— HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50
BITUMINOUS TACK COAT (0.05 GAL/SY)
2"— HOT-MIX ASPHALT BINDER COURSE, IL-19, N50
BITUMINOUS PRIME COAT MC-30 (0.30 GAL/SY)
8" AGGREGATE BASE COURSE CA-6, TYPE B
(INCREASE TO 12" (MIN.) AGGREGATE BASE COURSE CA-6,
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BITUMINOUS TACK COAT (0.05 GAL/SY)
2.4"— HOT-MIX ASPHALT BINDER COURSE, IL-19, N50
5" HOT MIX ASPHALT BINDER COURSE, N30
BITUMINOUS PRIME COAT MC-30 (0.30 GAL/SY)
4" AGGREGATE BASE COURSE CA-6, TYPE B
(OR APPROPRIATE ALTERNATE WITH EQUIVALENT STRUCT. NUMBER)

8" PORTLAND CEMENT CONCRETE (4000 PSI)
W/ 6"x6" No. 6 WELDED MESH
6" AGGREGATE BASE COURSE (CA-6, TYPE B
CONCRETE SIDEWALKS (PUBLIC AND/OR PRIVATE)
8" - PCC SIDEWALK (4000 PSI) (6" ACROSS PAVEMENT)
4" - AGGREGATE BASE COURSE TYPE B, CA-6
EXISTING ASPHALT PAVEMENT

PROPOSED B6.12 CONCRETE CURB AND GUTTER

PROPOSED B6.12 DEPRESSIONED CURB AND GUTTER

PROPOSED REVERSE PITCH B6.12 CURB AND GUTTER

EXISTING CURB AND GUTTER

EXISTING DEPRESSIONED CURB AND GUTTER

8" PORTLAND CEMENT CONCRETE (4000 PSI)
W/ 6"x6" No. 6 WELDED MESH
6" AGGREGATE BASE COURSE (CA-6, TYPE B
CONCRETE SIDEWALKS (PUBLIC AND/OR PRIVATE)
8" - PCC SIDEWALK (4000 PSI) (6" ACROSS PAVEMENT)
4" - AGGREGATE BASE COURSE TYPE B, CA-6
EXISTING ASPHALT PAVEMENT

PROPOSED B6.12 CONCRETE CURB AND GUTTER

PROPOSED B6.12 DEPRESSIONED CURB AND GUTTER

PROPOSED REVERSE PITCH B6.12 CURB AND GUTTER

EXISTING CURB AND GUTTER

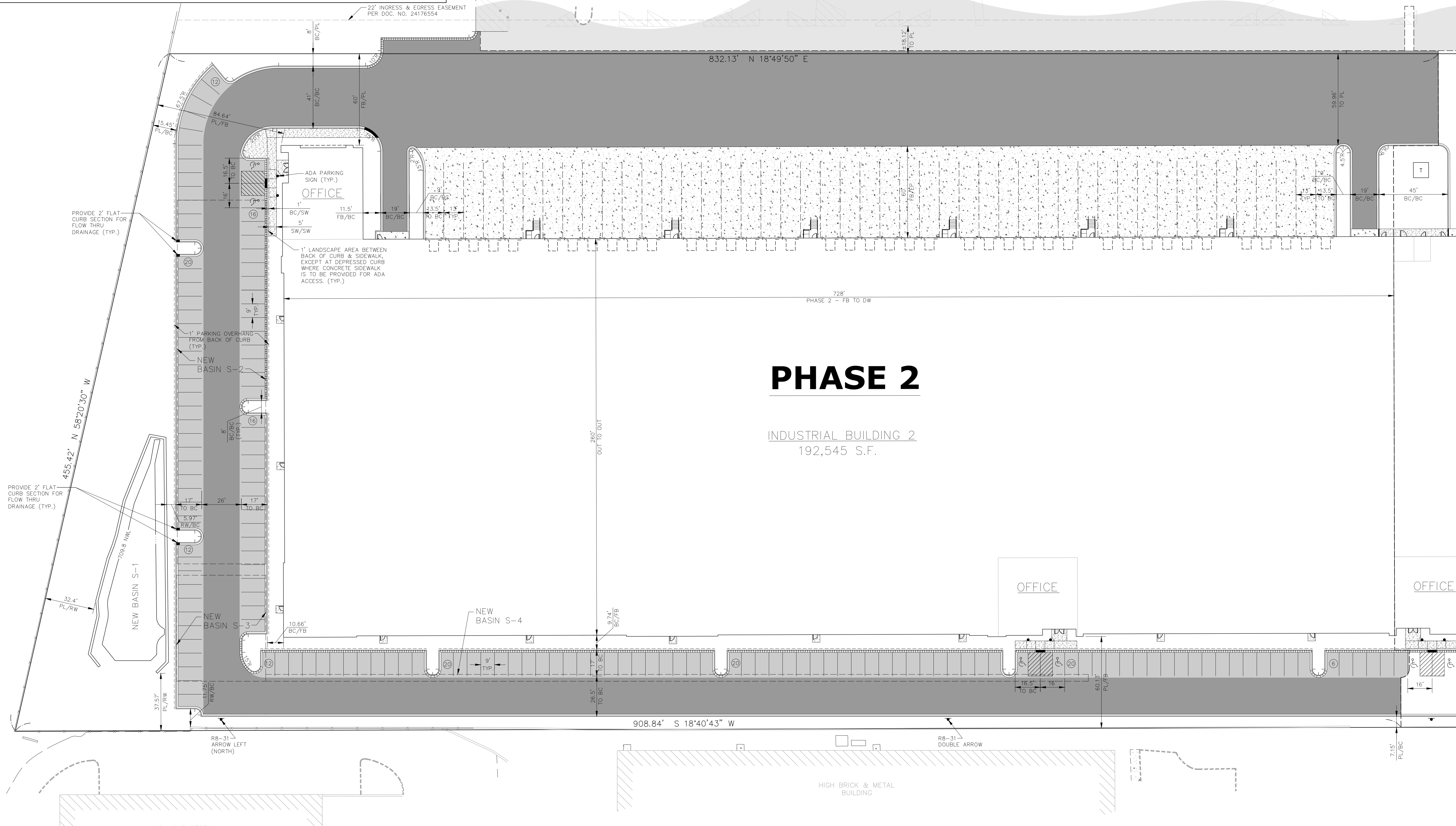
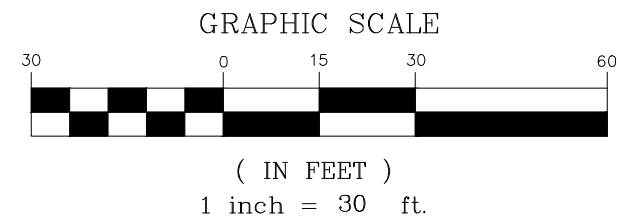
EXISTING DEPRESSIONED CURB AND GUTTER

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

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SW	=	SIDEWALK
R	=	RADIUS
(Typ)	=	TYPICAL
DW	=	DEMISING WALL

TOTAL LOT SIZE	=	380,097 S.F. (8.73 AC)
<u>PROPOSED SITE CONDITIONS:</u>		
PROPOSED BUILDING 2 FOOTPRINT	=	192,545 S.F. (50.66%)
PROPOSED PAVT./SIDEWALK	=	141,957 S.F. (37.34%)
PROPOSED GREENSPACE	=	45,595 S.F. (12.00%)
PROPOSED CONDITION IMPERVIOUS AREA	=	334,502 S.F. (7.68 AC)
<u>PROPOSED PARKING SUMMARY:</u>		
REGULAR STALLS	=	150
PHASE 2 ADA ACCESSIBLE STALLS	=	4
TOTAL STALLS PROVIDED	=	154 (0.80/1,000 SF)

TOTAL LOT SIZE	=	380,097 S.F. (8.73 AC)
<u>PROPOSED SITE CONDITIONS:</u>		
PROPOSED BUILDING 2 FOOTPRINT	=	192,545 S.F. (50.66%)
PROPOSED PAVT./SIDEWALK	=	141,957 S.F. (37.34%)
PROPOSED GREENSPACE	=	45,595 S.F. (12.00%)
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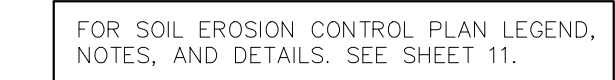
Engineering, LLC

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8 OF 20



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SOIL EROSION & SEDIMENT CONTROL (SESC) PLAN - PHASE 2

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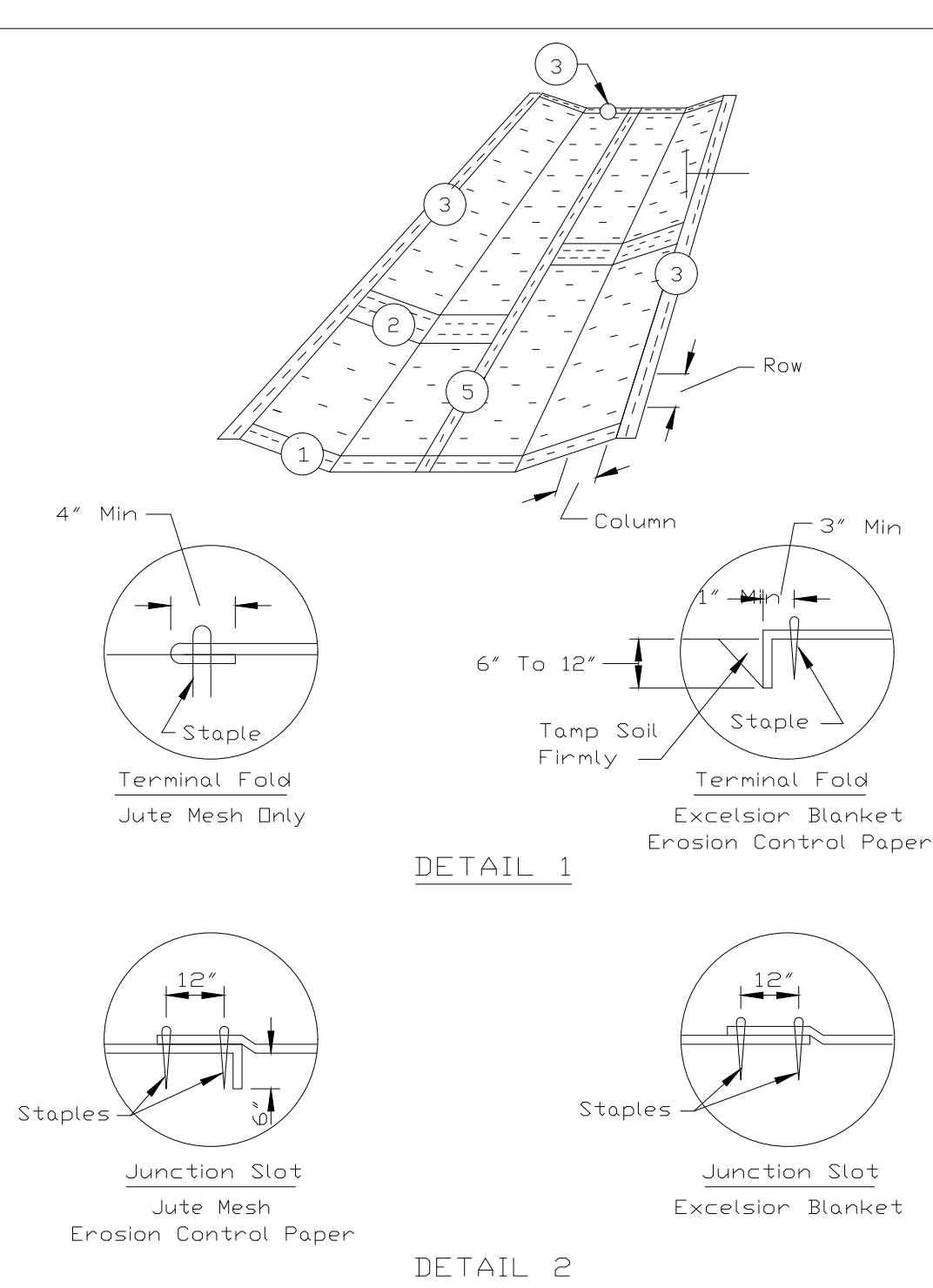
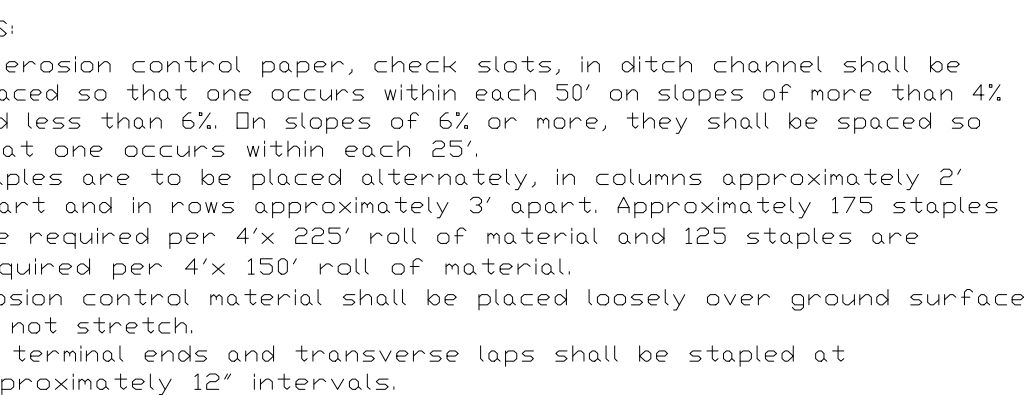
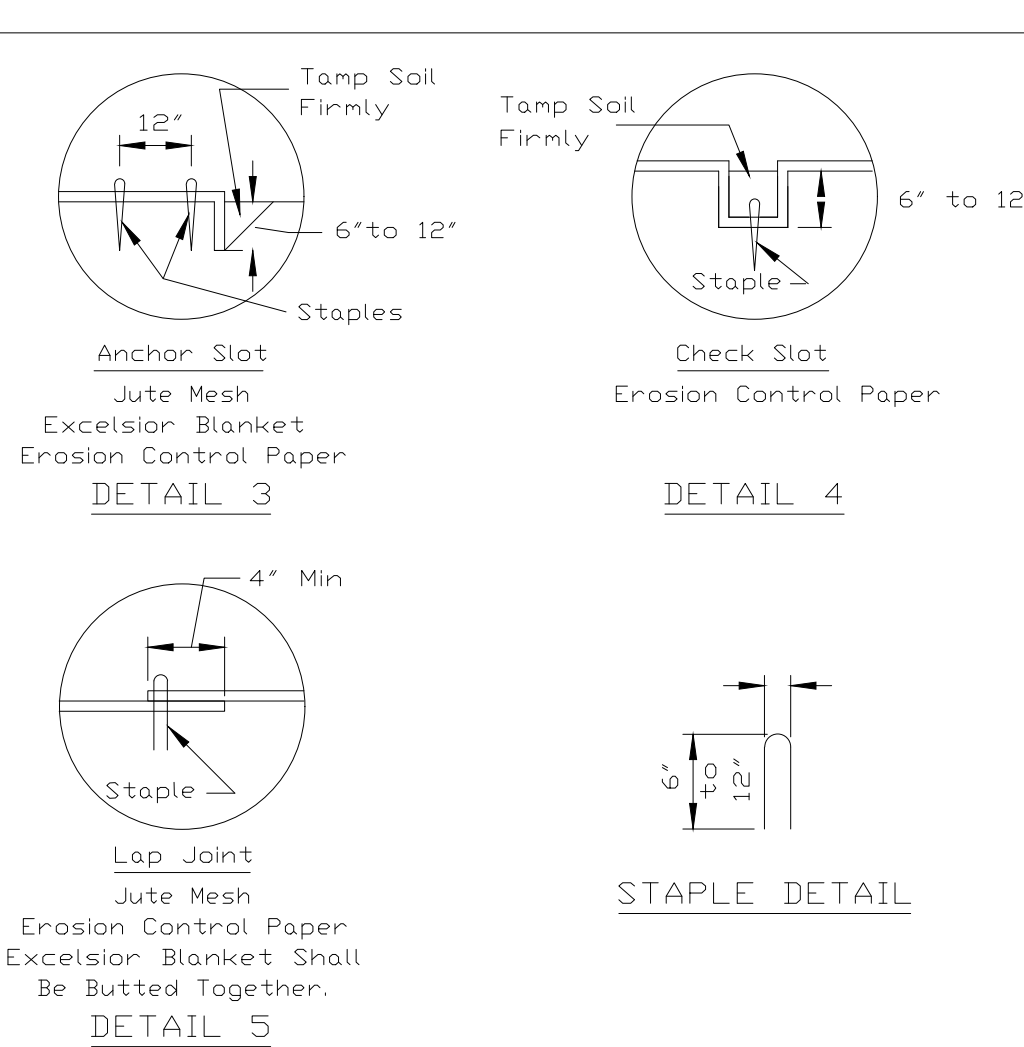
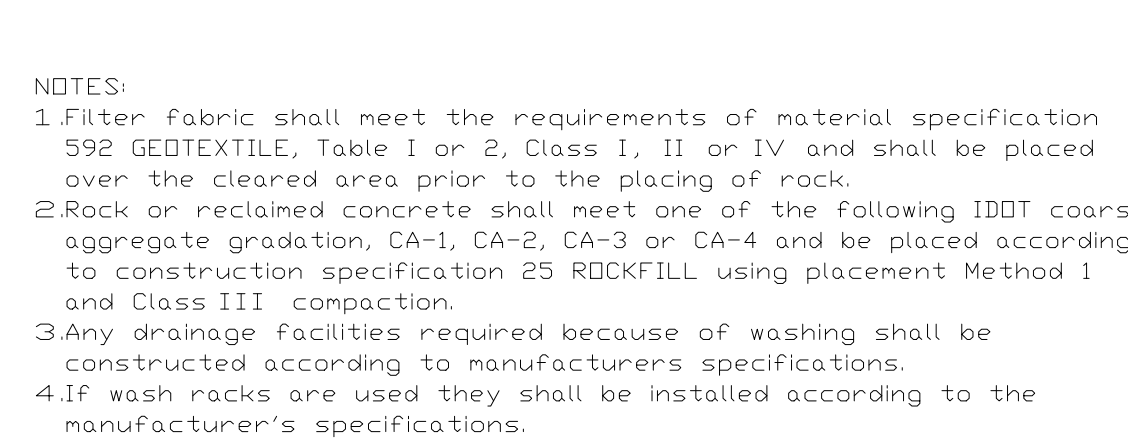
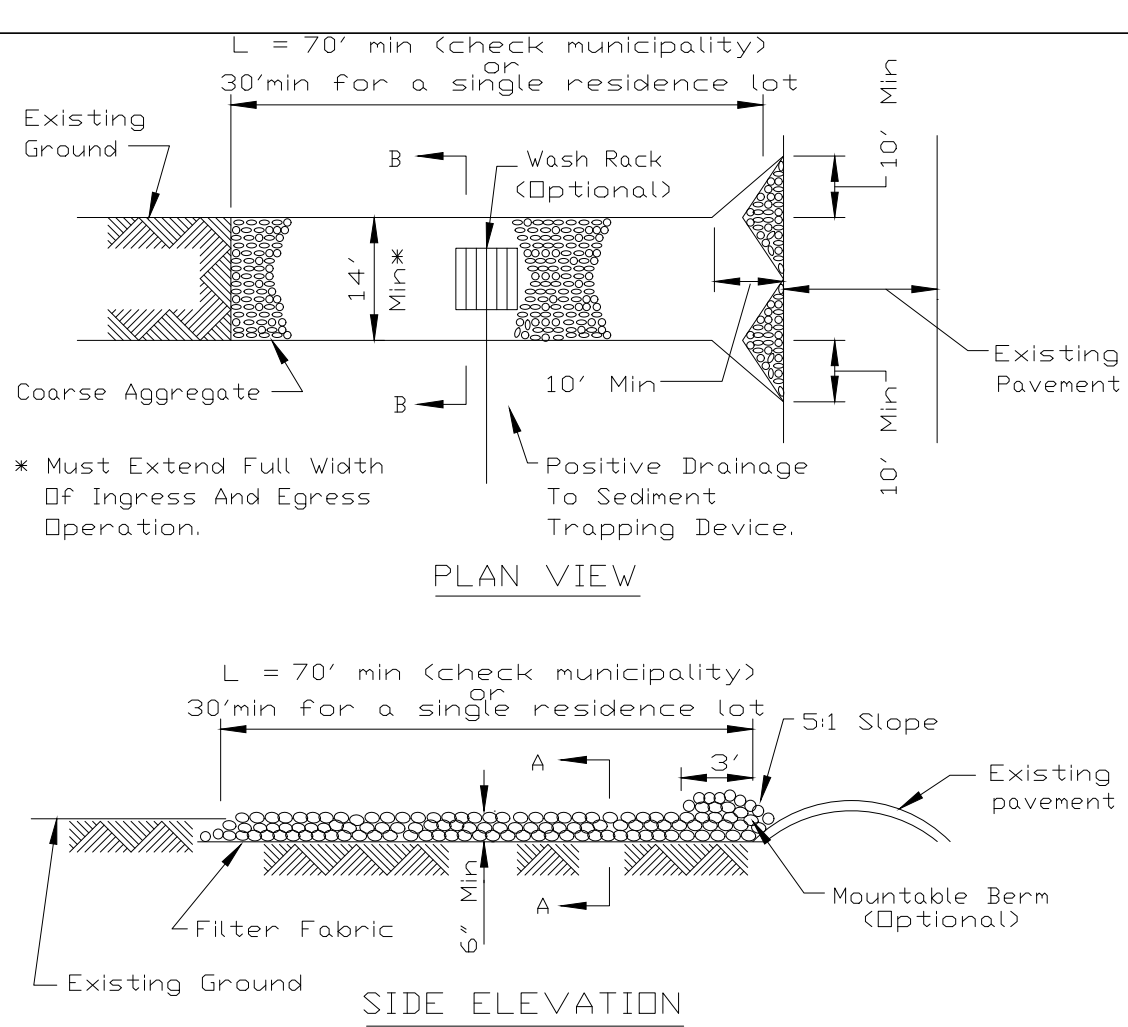
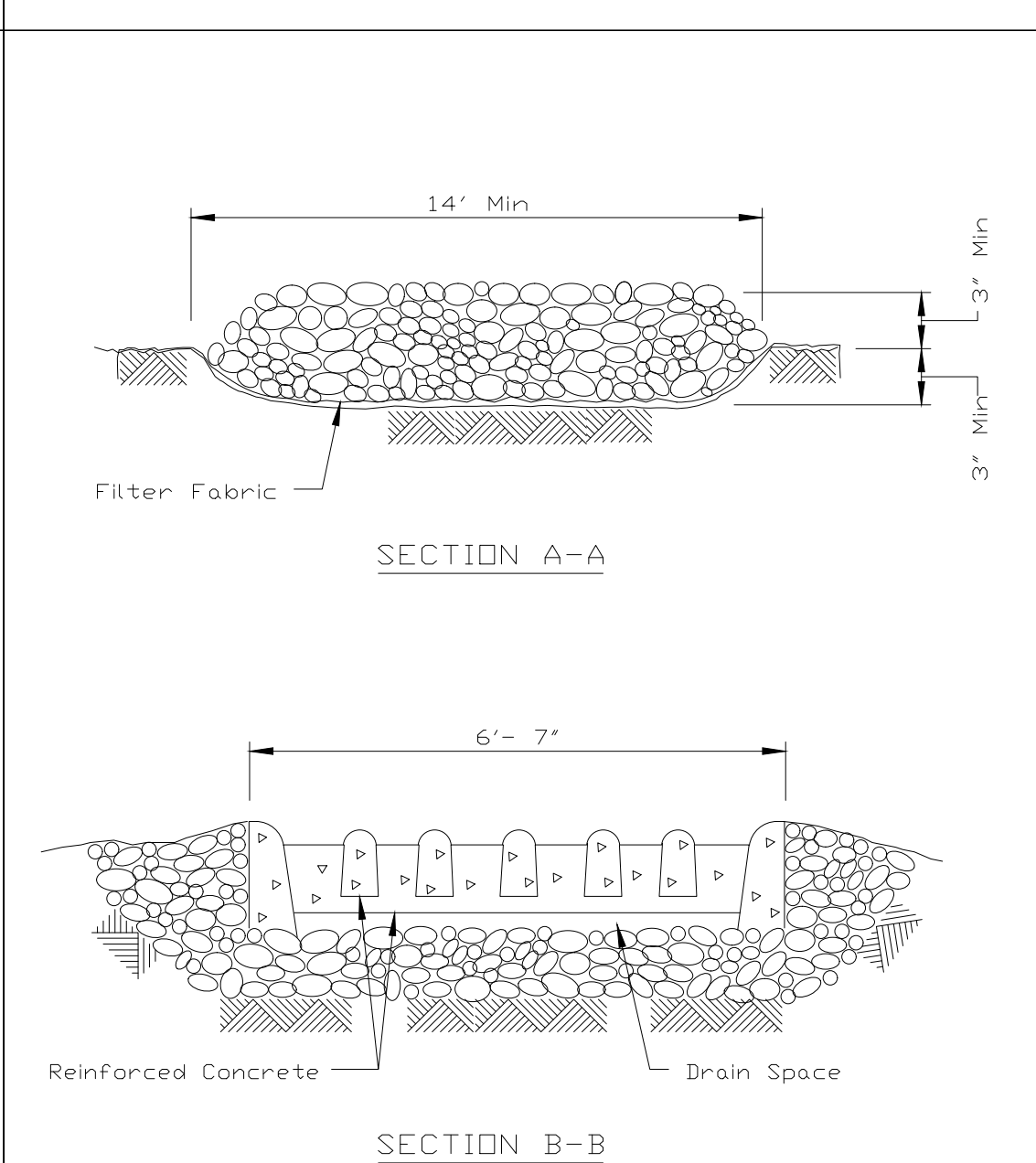
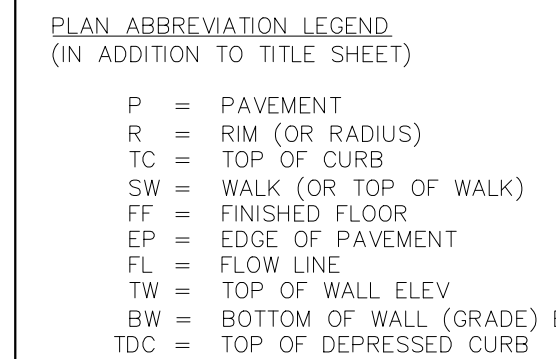
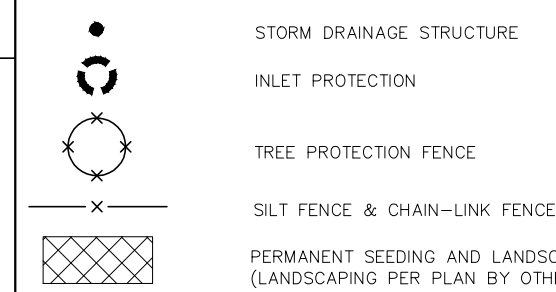
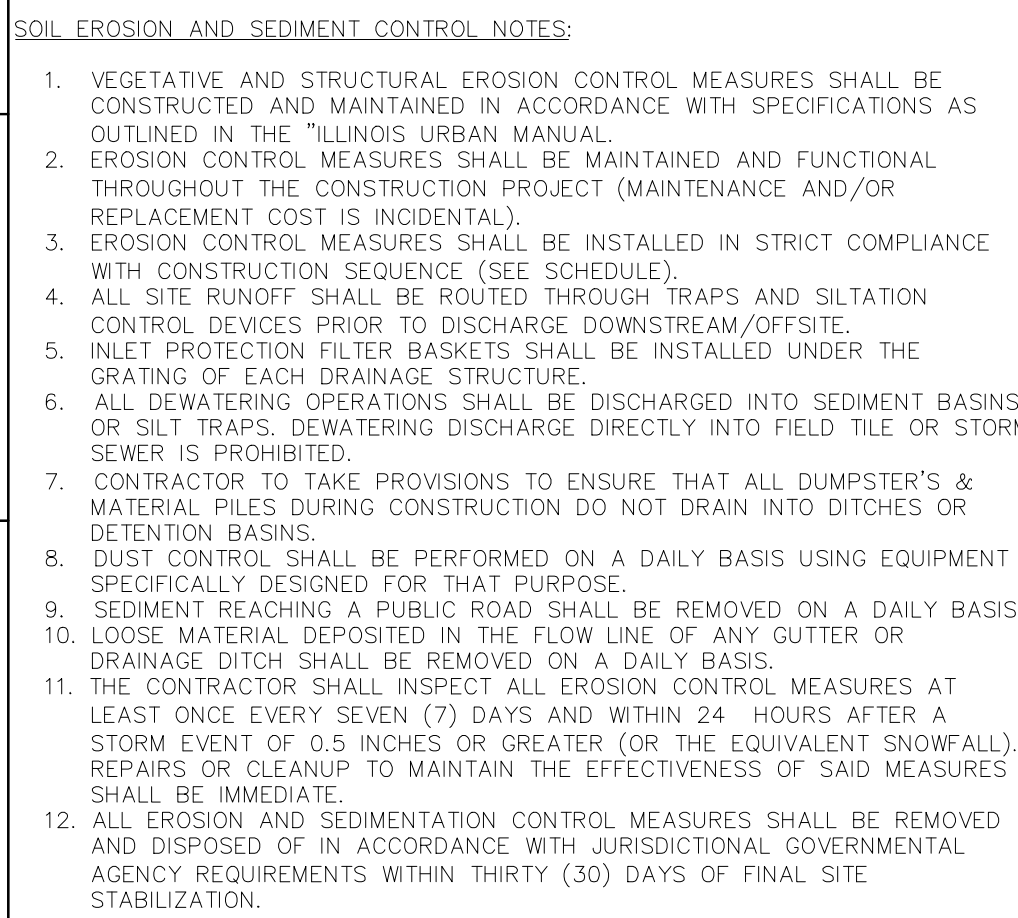
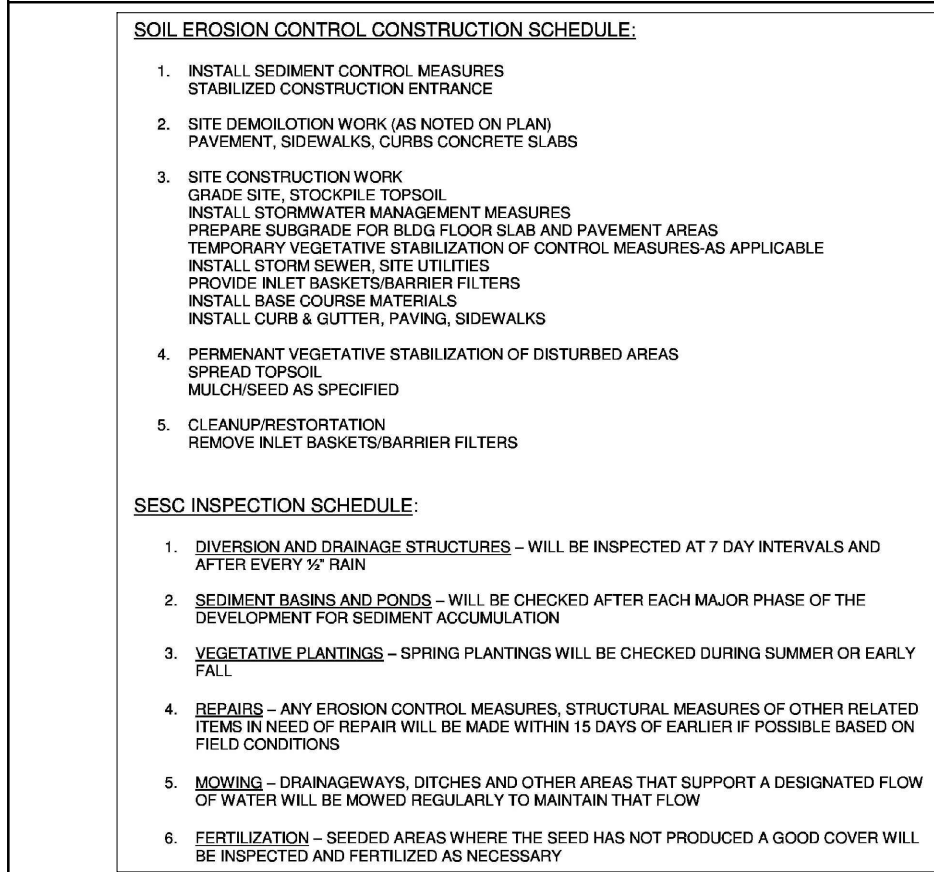
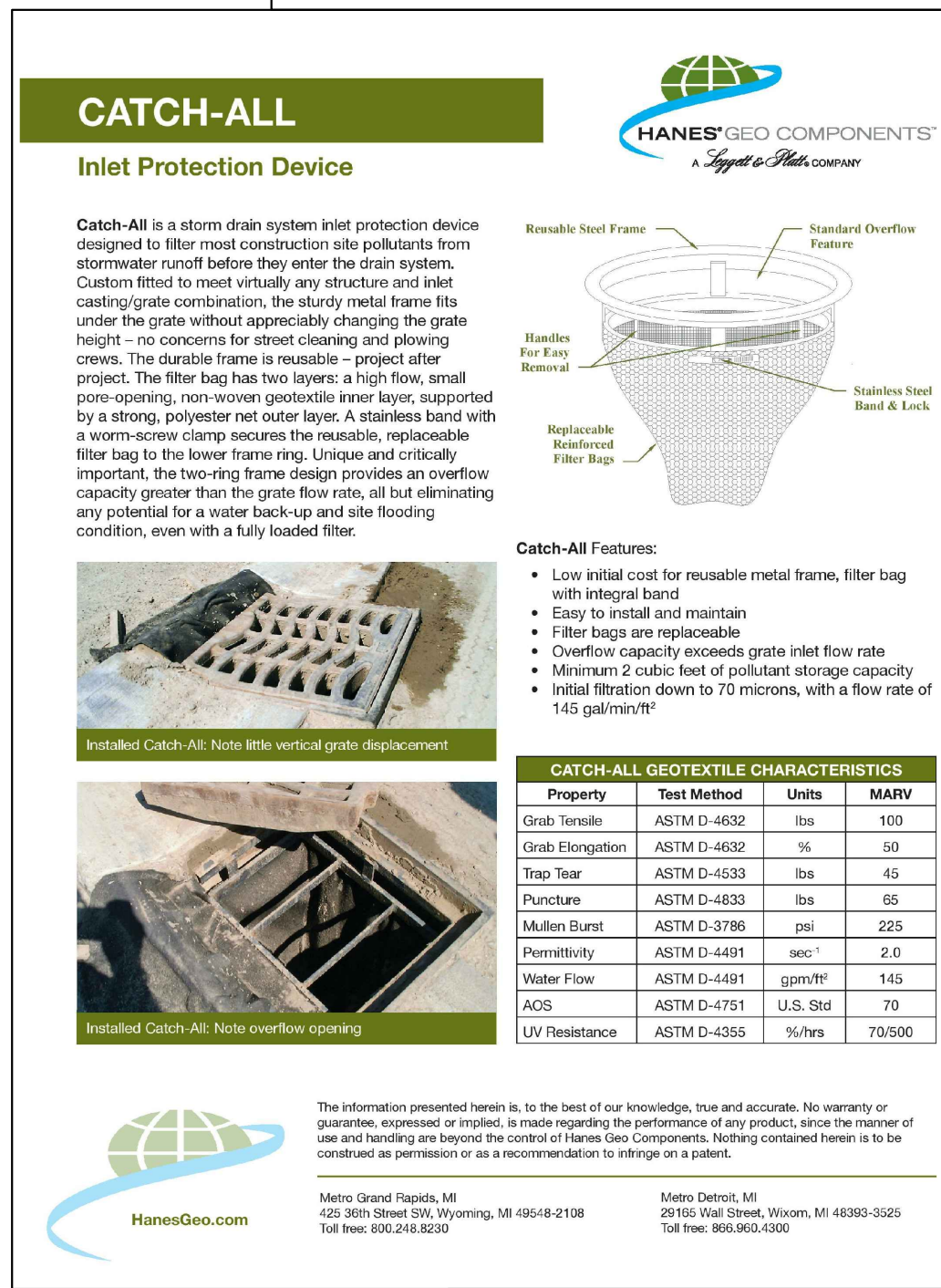
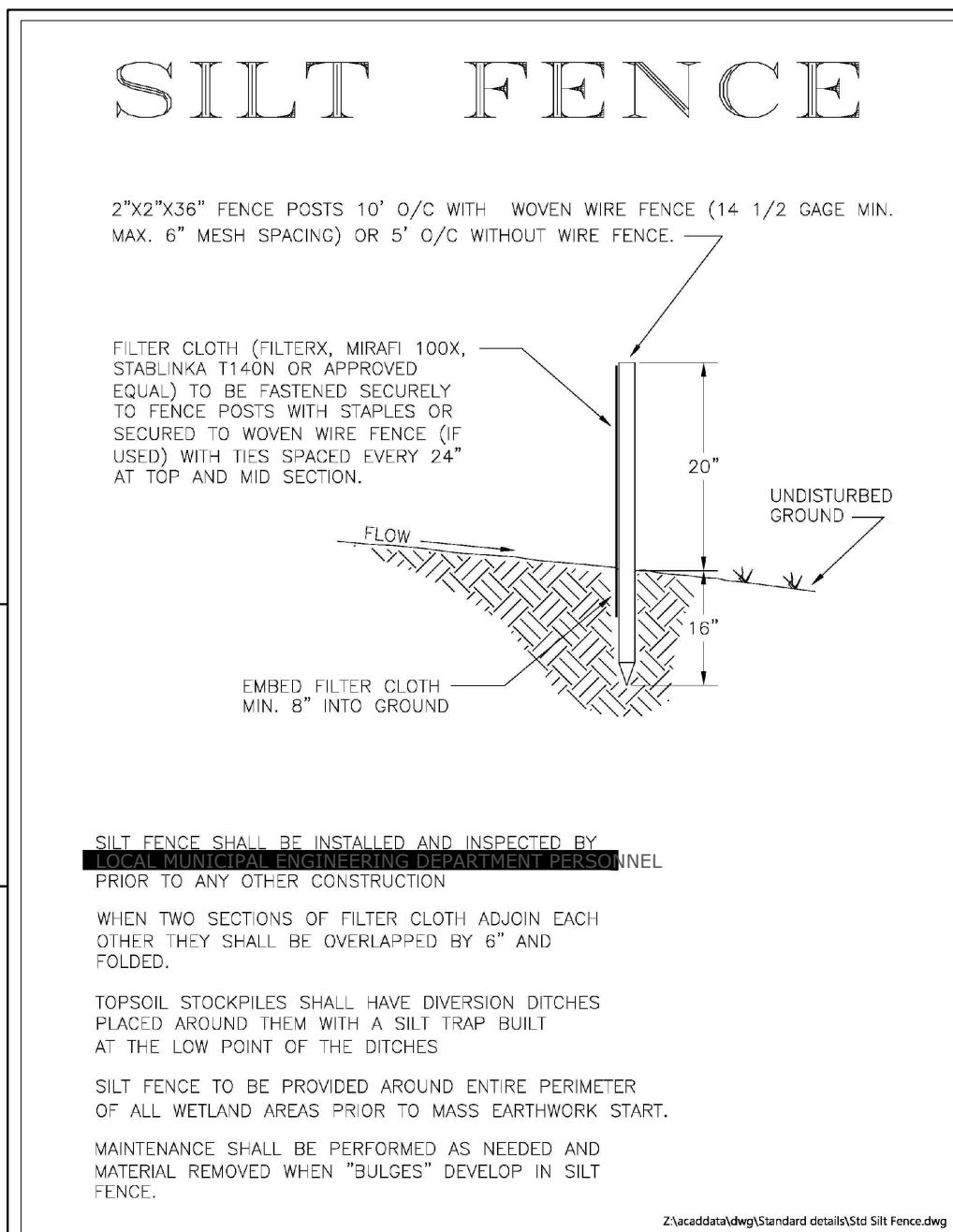
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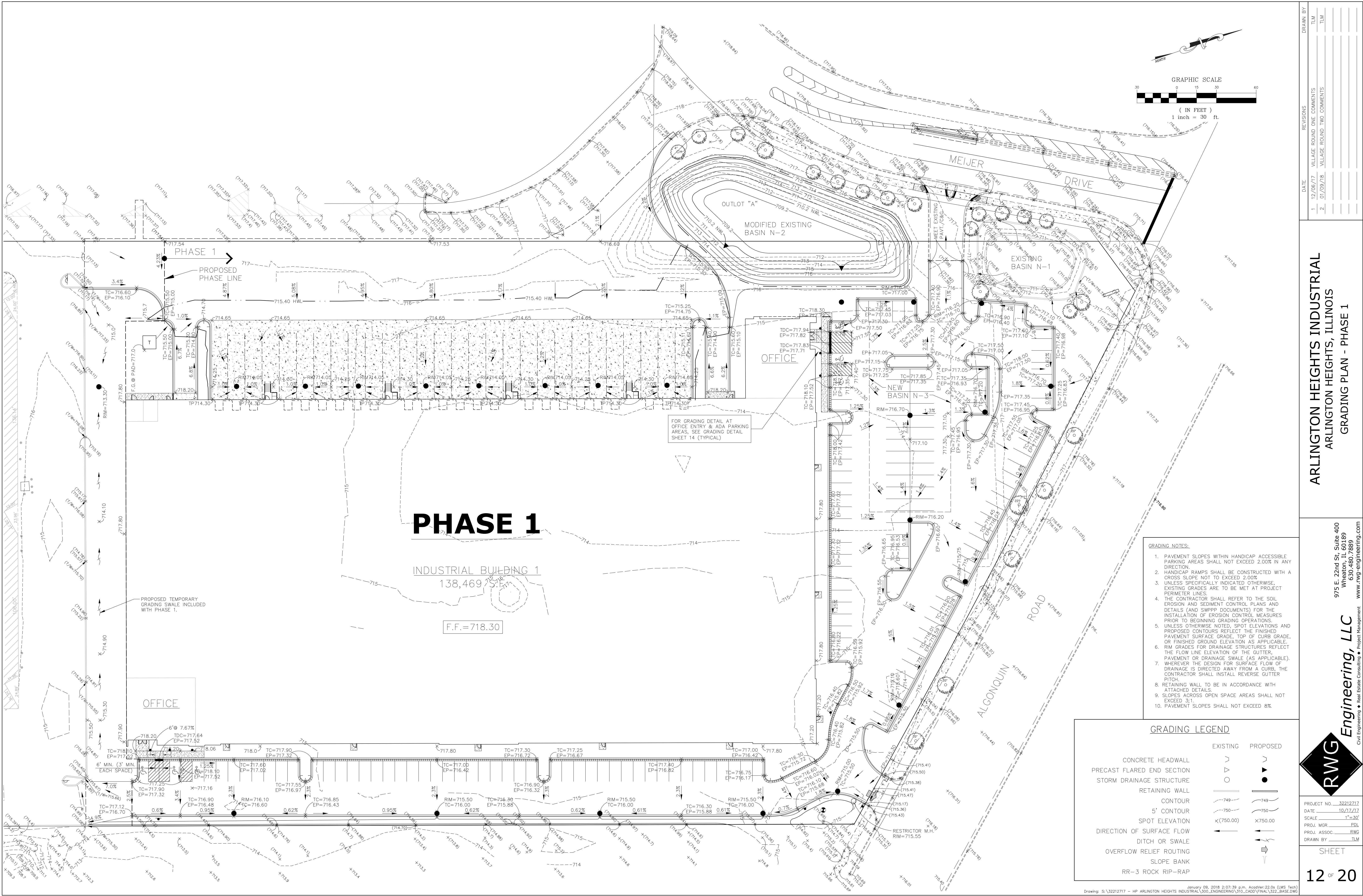
PROJECT NO. 32212717
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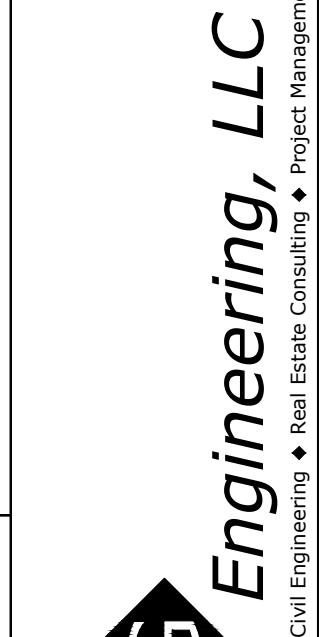
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ARLINGTON HEIGHTS, ILLINOIS
SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS





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GRADING PLAN - PHASE 1

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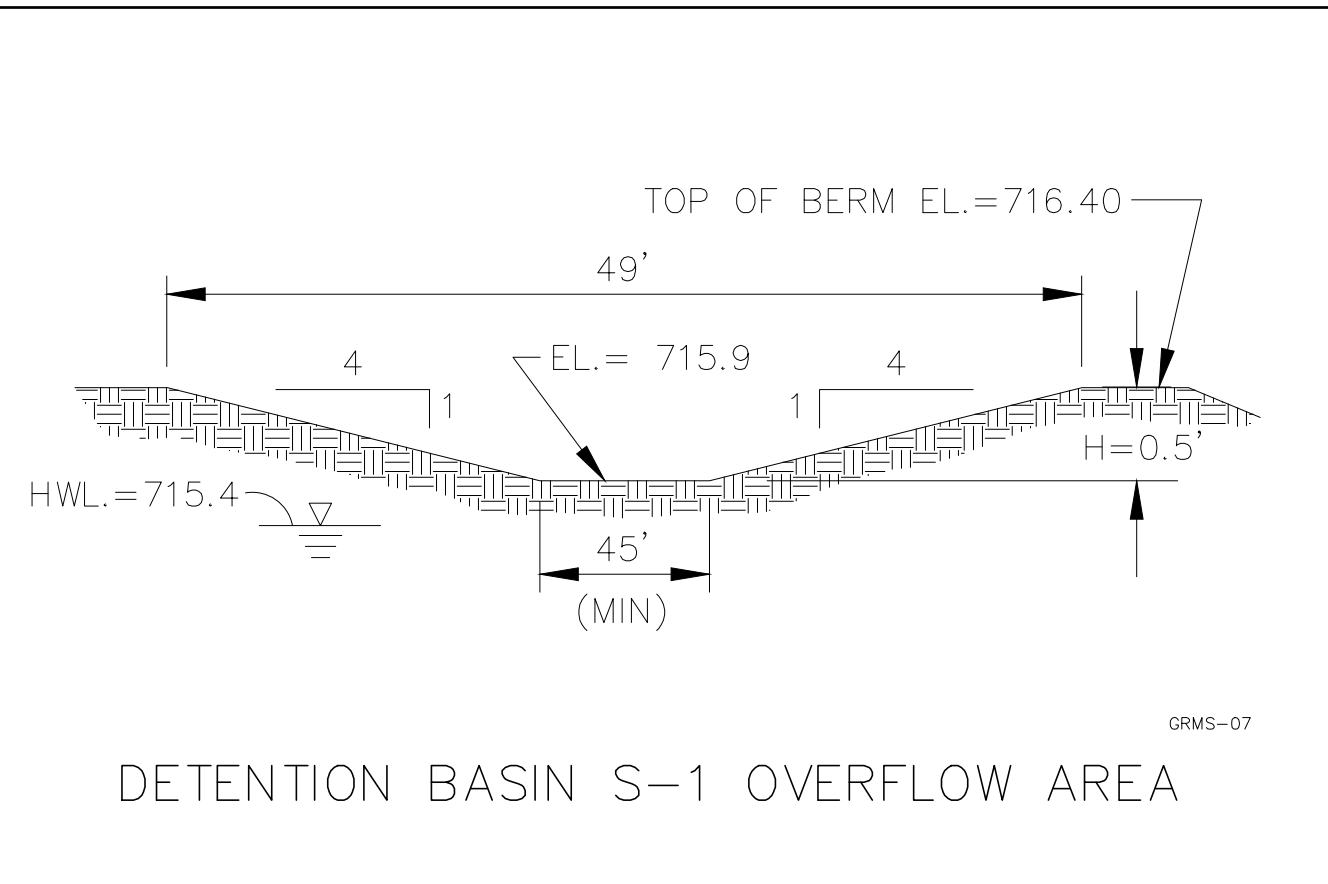
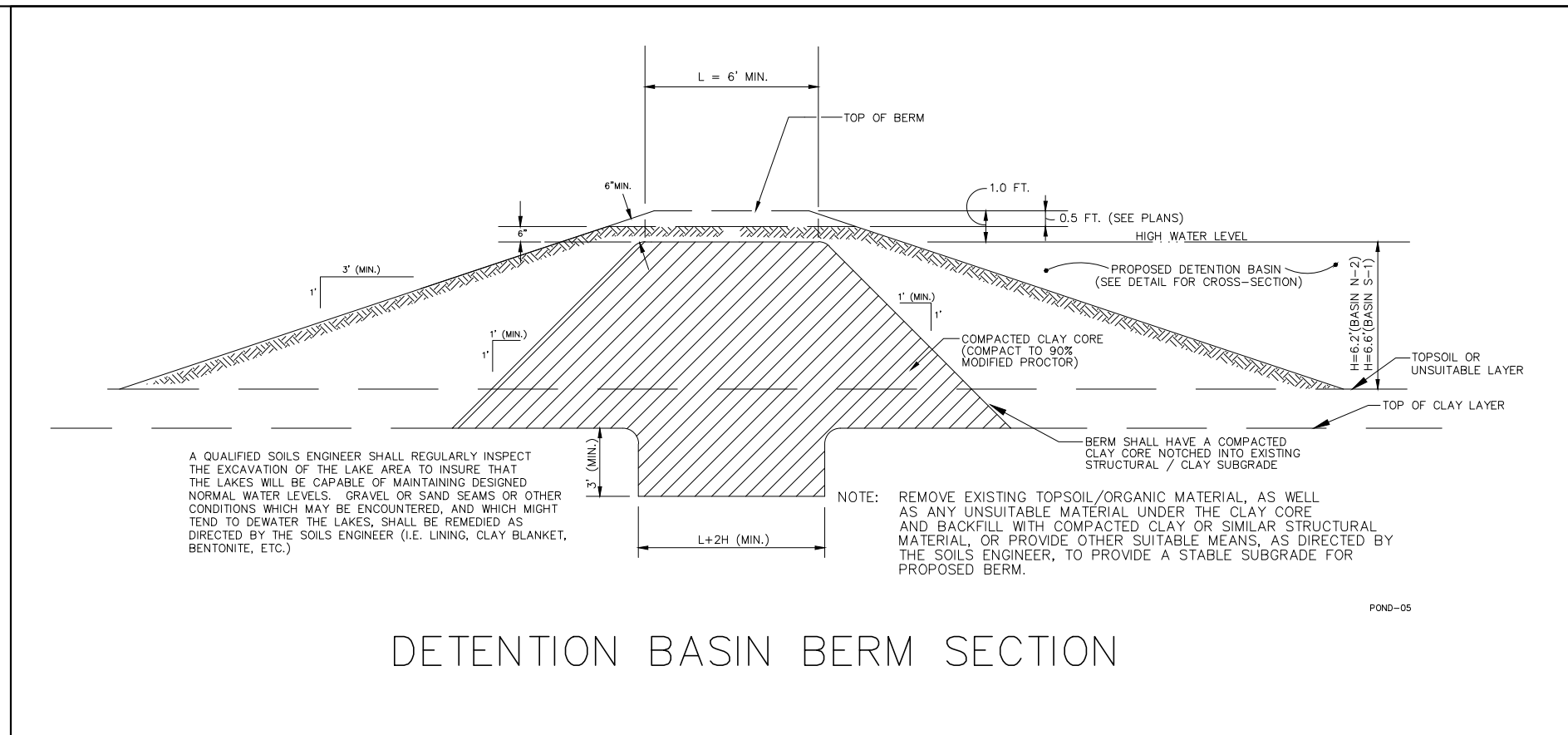
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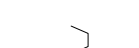
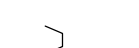




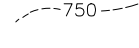
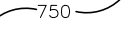

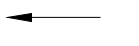








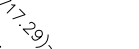





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DATE 12/06/17
REVISIONS VILLAGE ROUND ONE COMMENTS
VILLAGE ROUND TWO COMMENTS

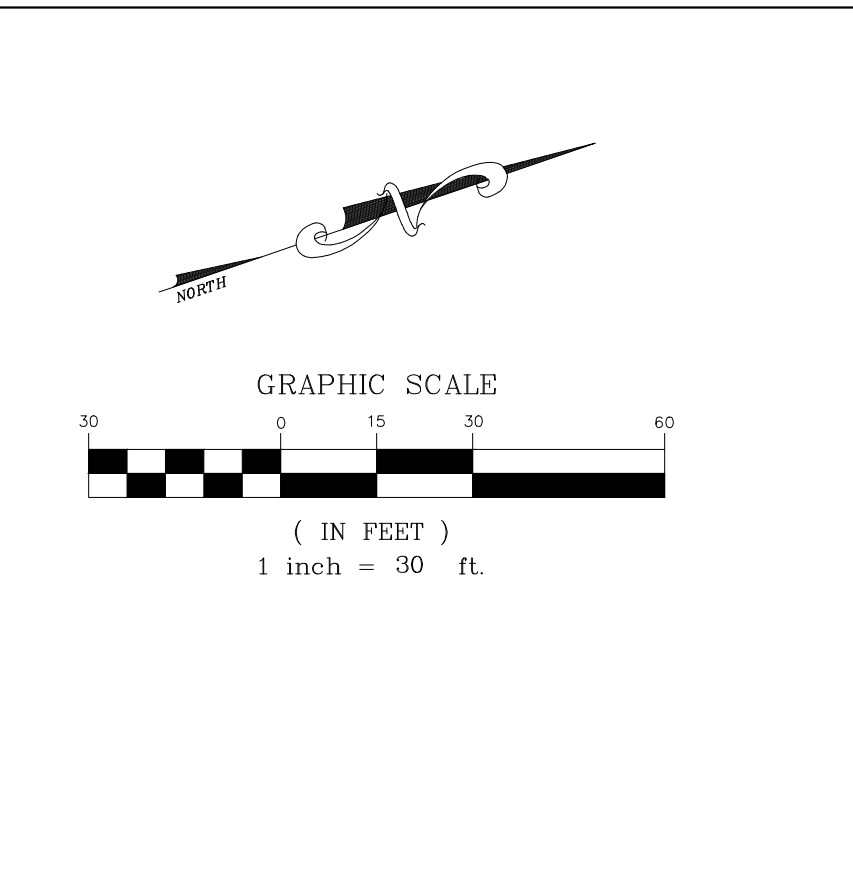
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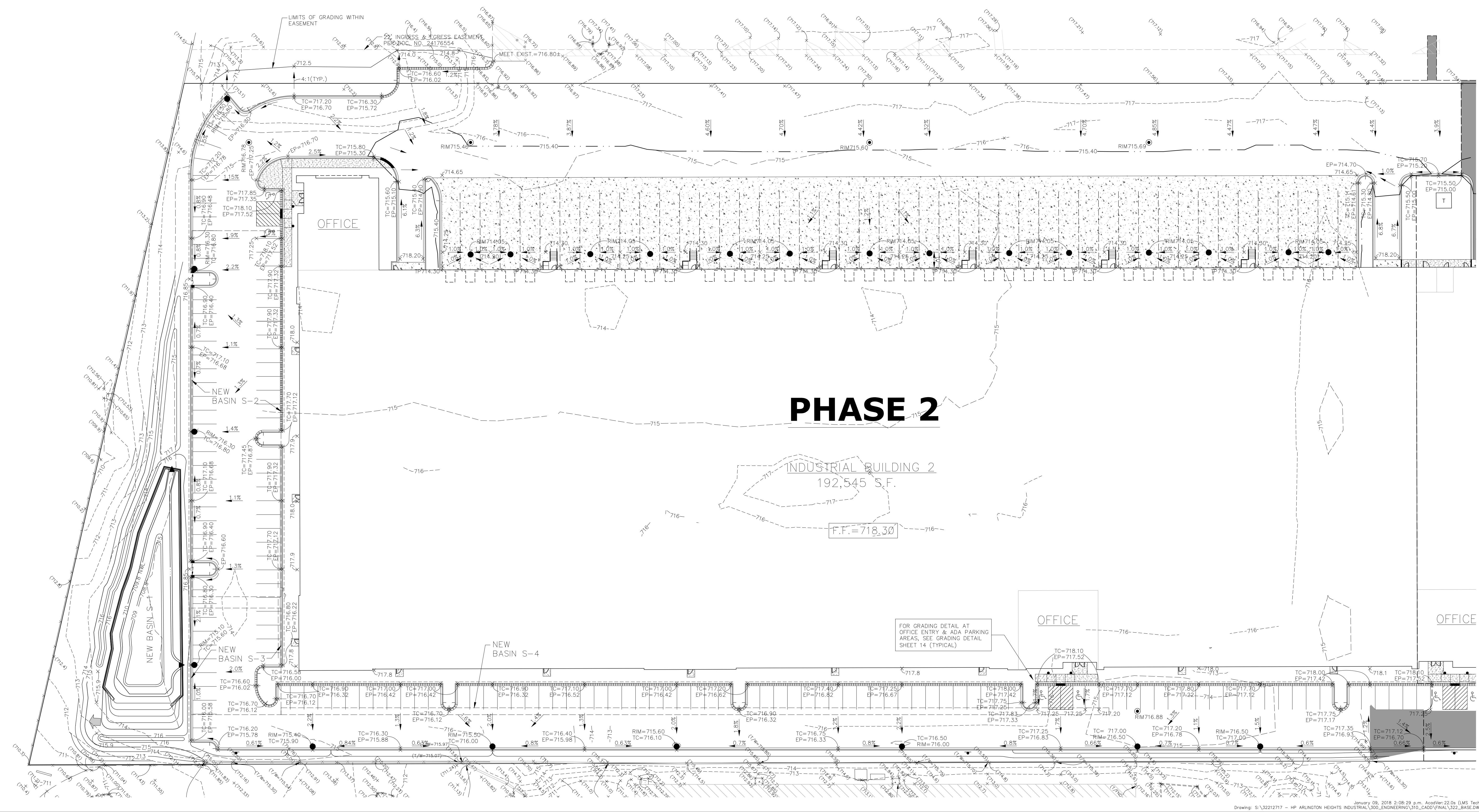


GRADING LEGEND	
CONCRETE HEADWALL	EXISTING:  PROPOSED: 
PRECAST FLARED END SECTION	EXISTING:  PROPOSED: 
STORM DRAINAGE STRUCTURE	EXISTING:  PROPOSED: 
RETAINING WALL	EXISTING:  PROPOSED: 
CONTOUR	EXISTING:  PROPOSED: 
5' CONTOUR	EXISTING:  PROPOSED: 
SPOT ELEVATION	EXISTING:  PROPOSED: 
DIRECTION OF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

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



DATE	REVISIONS	BY
12/06/17	VILLAGE ROUND ONE COMMENTS	TLM
01/09/18	VILLAGE ROUND TWO COMMENTS	TLM



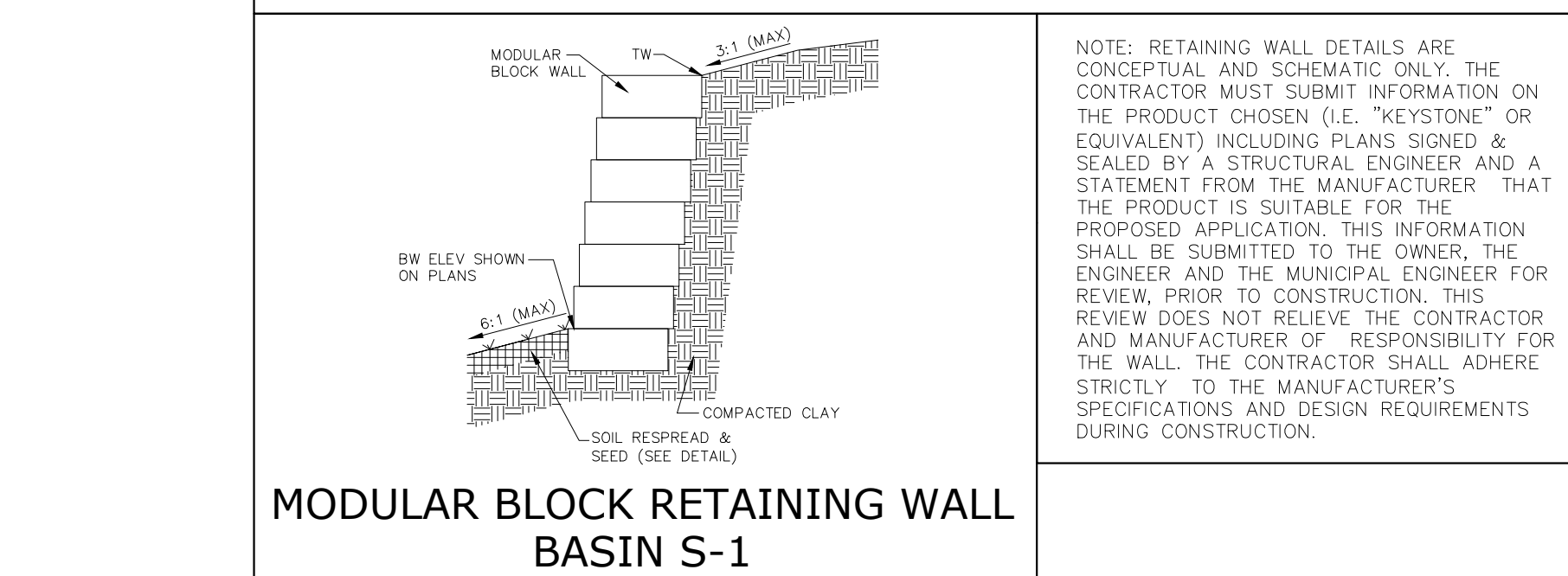
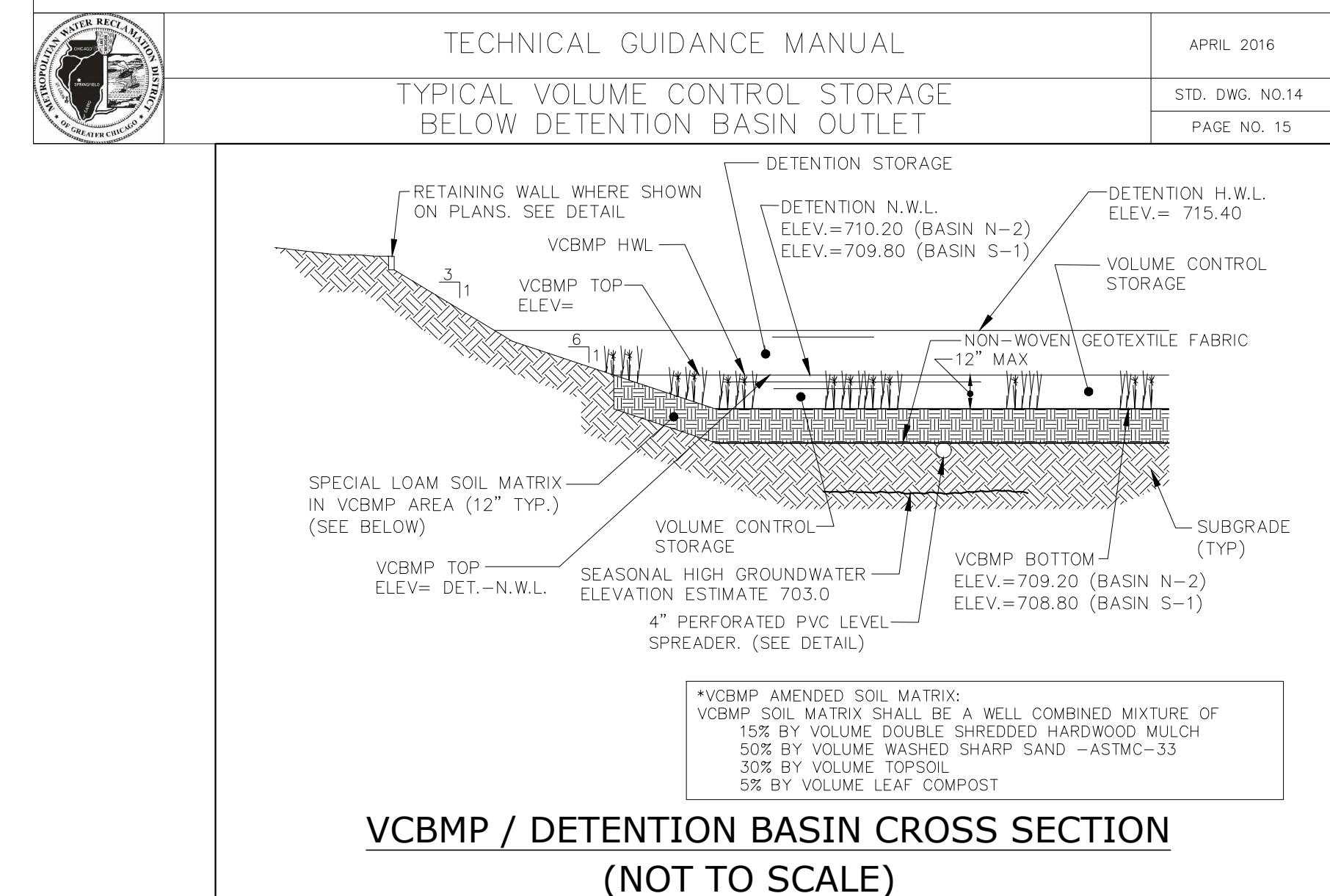
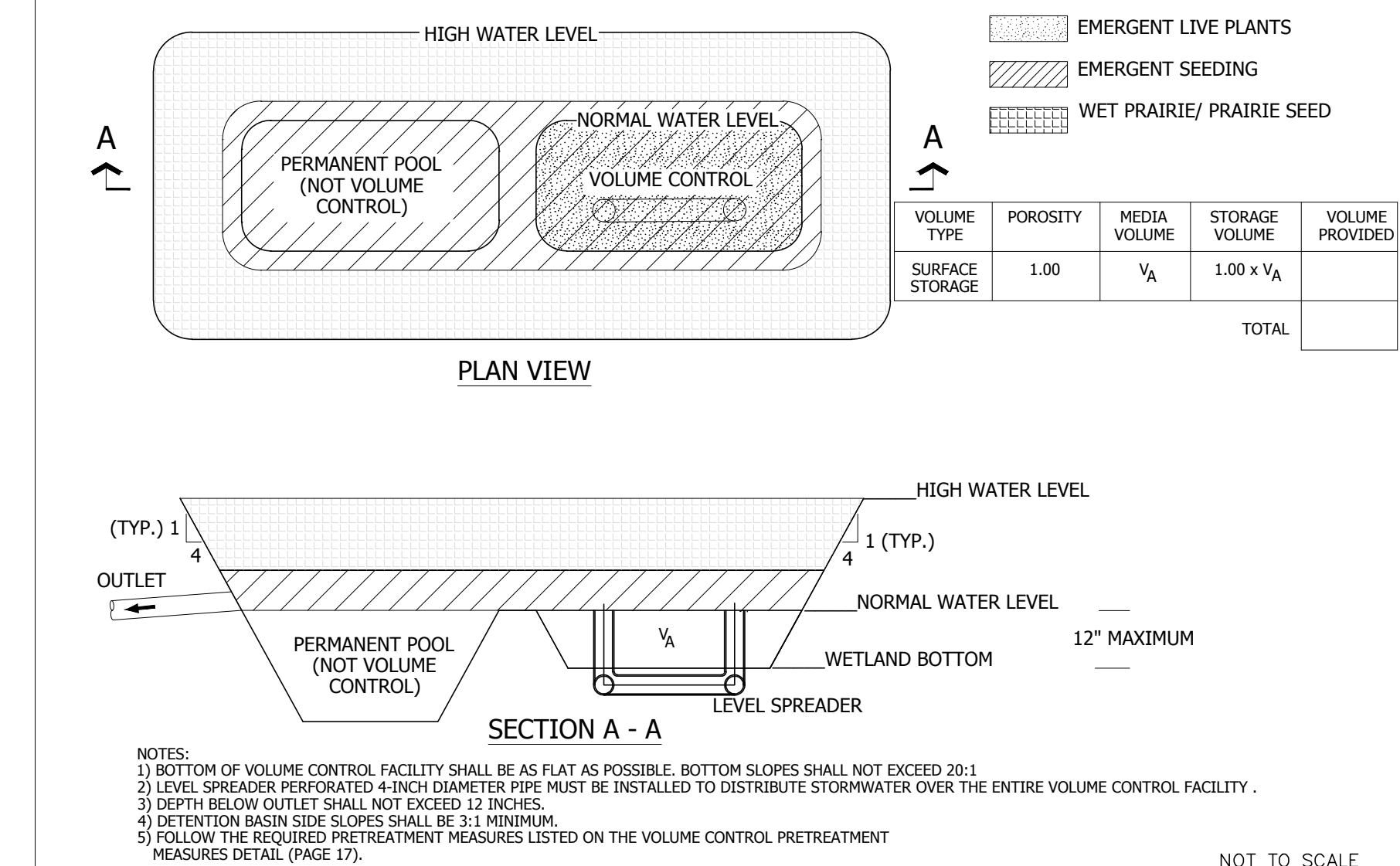
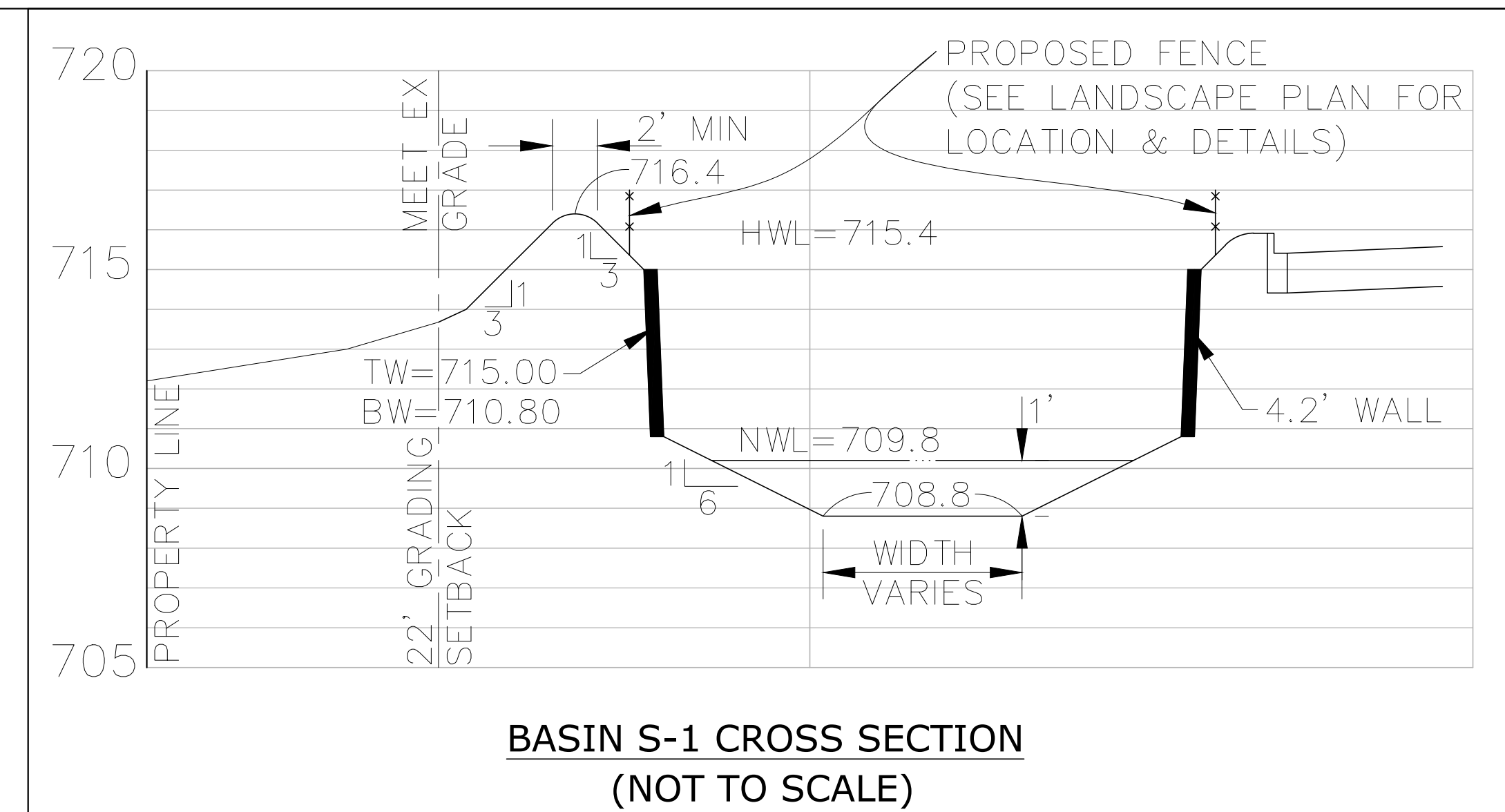
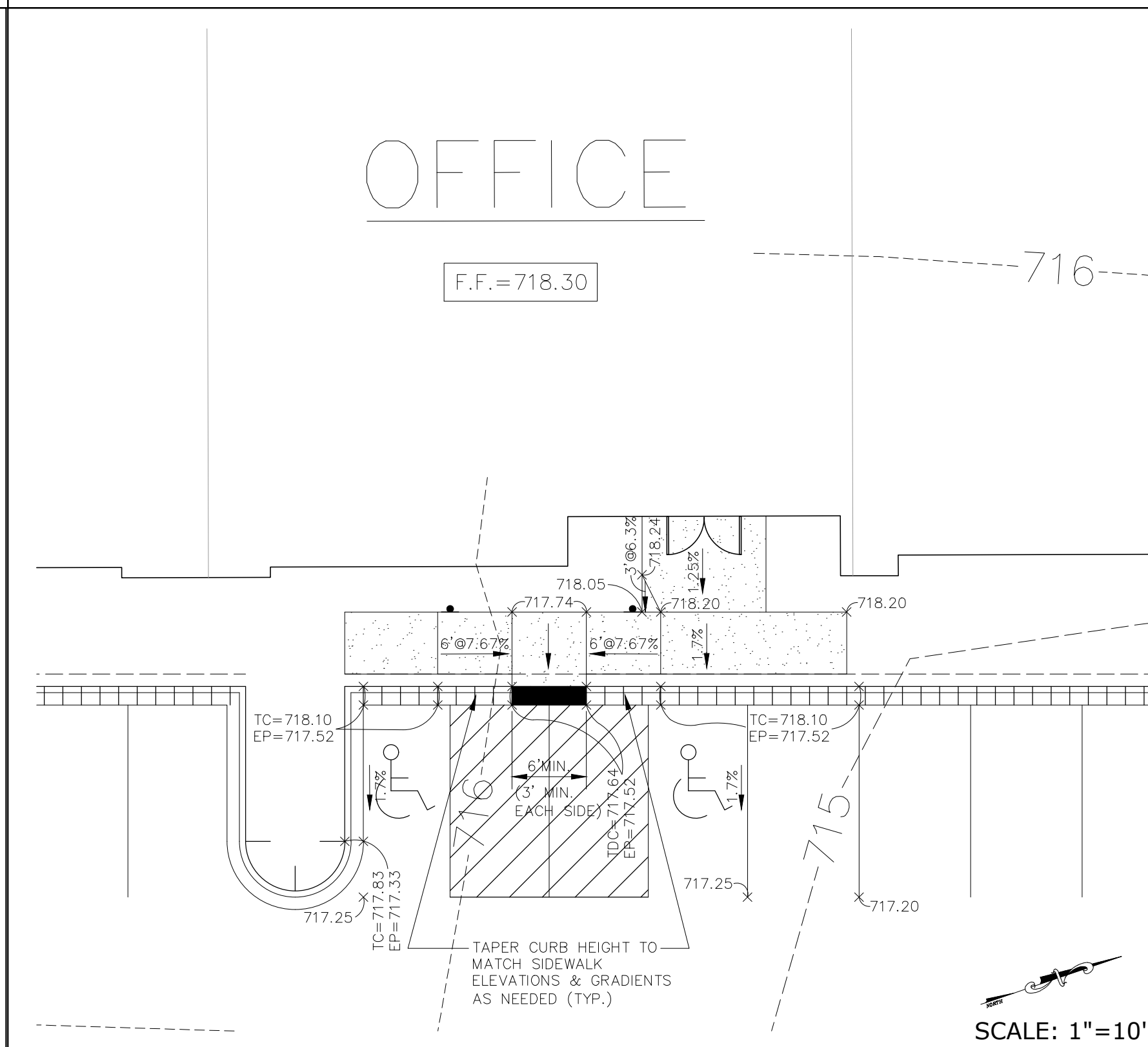
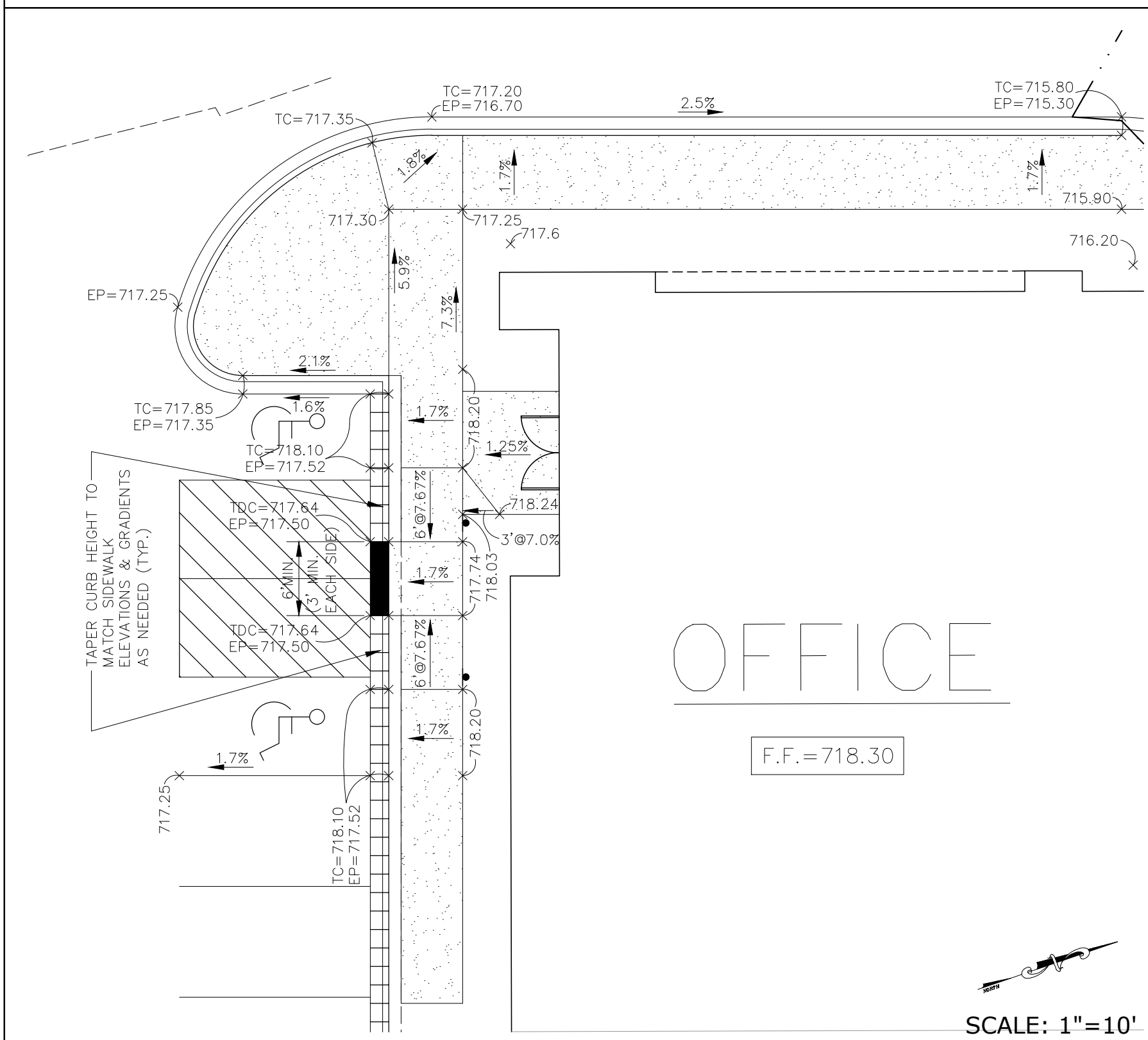
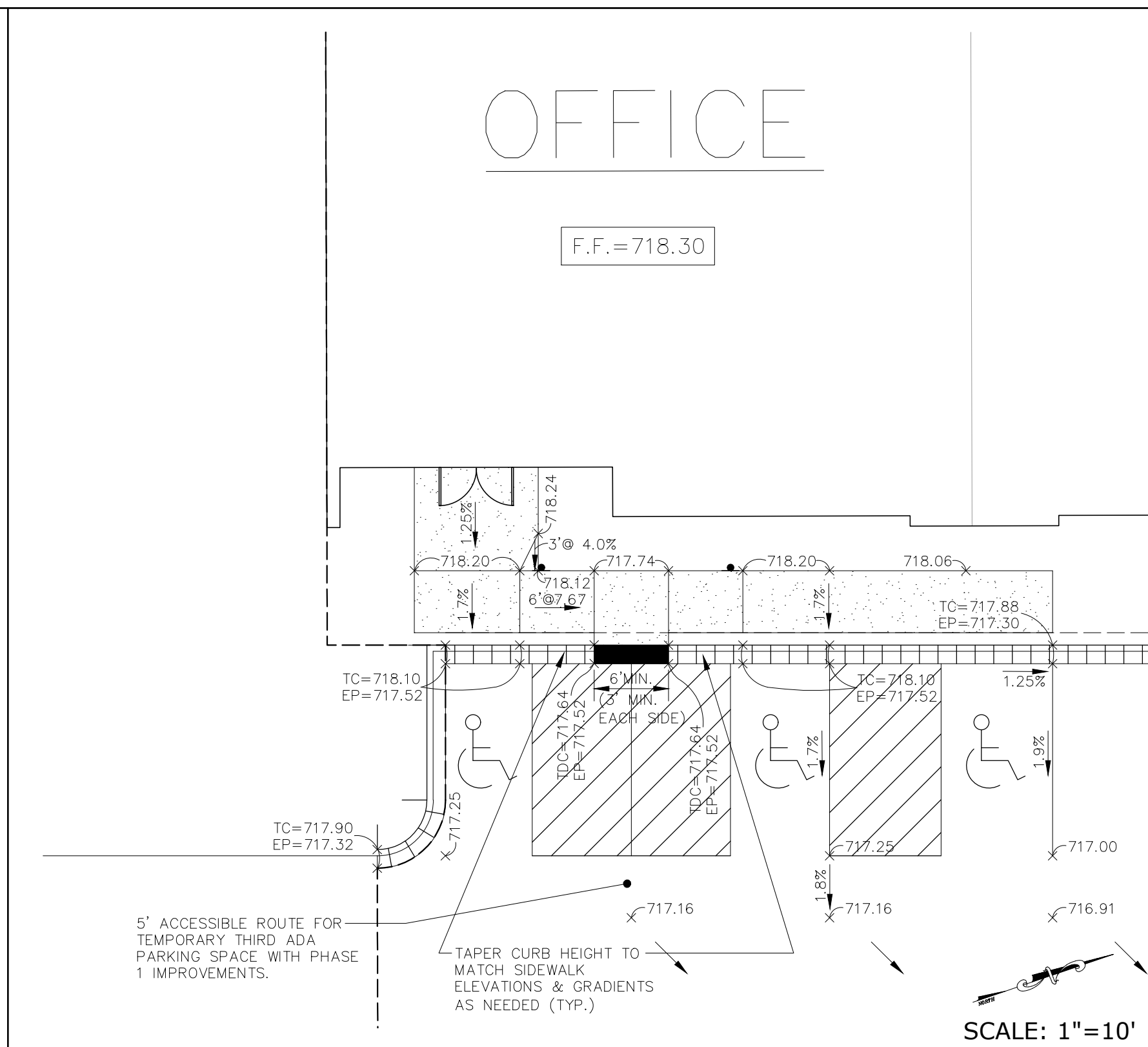
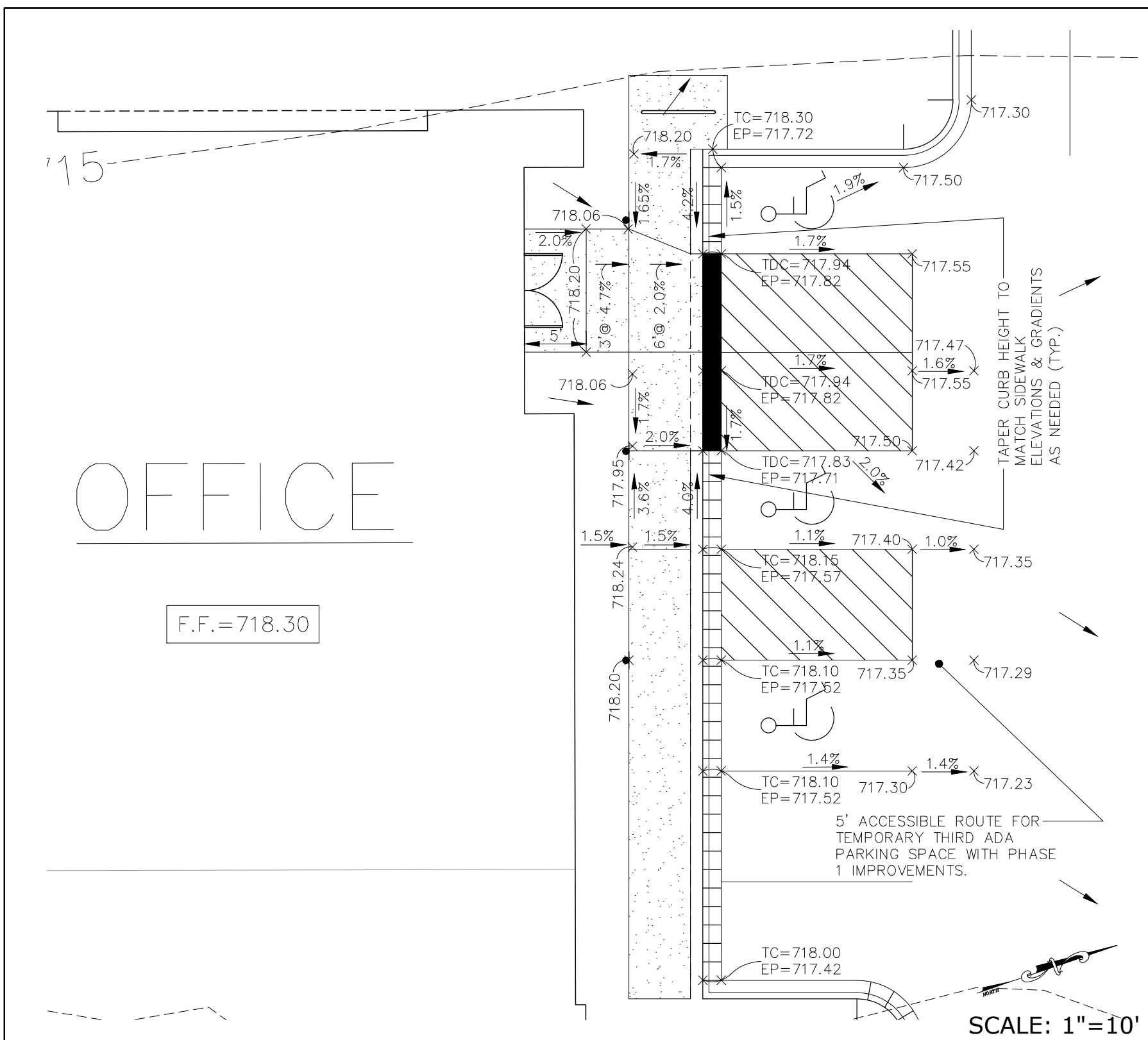
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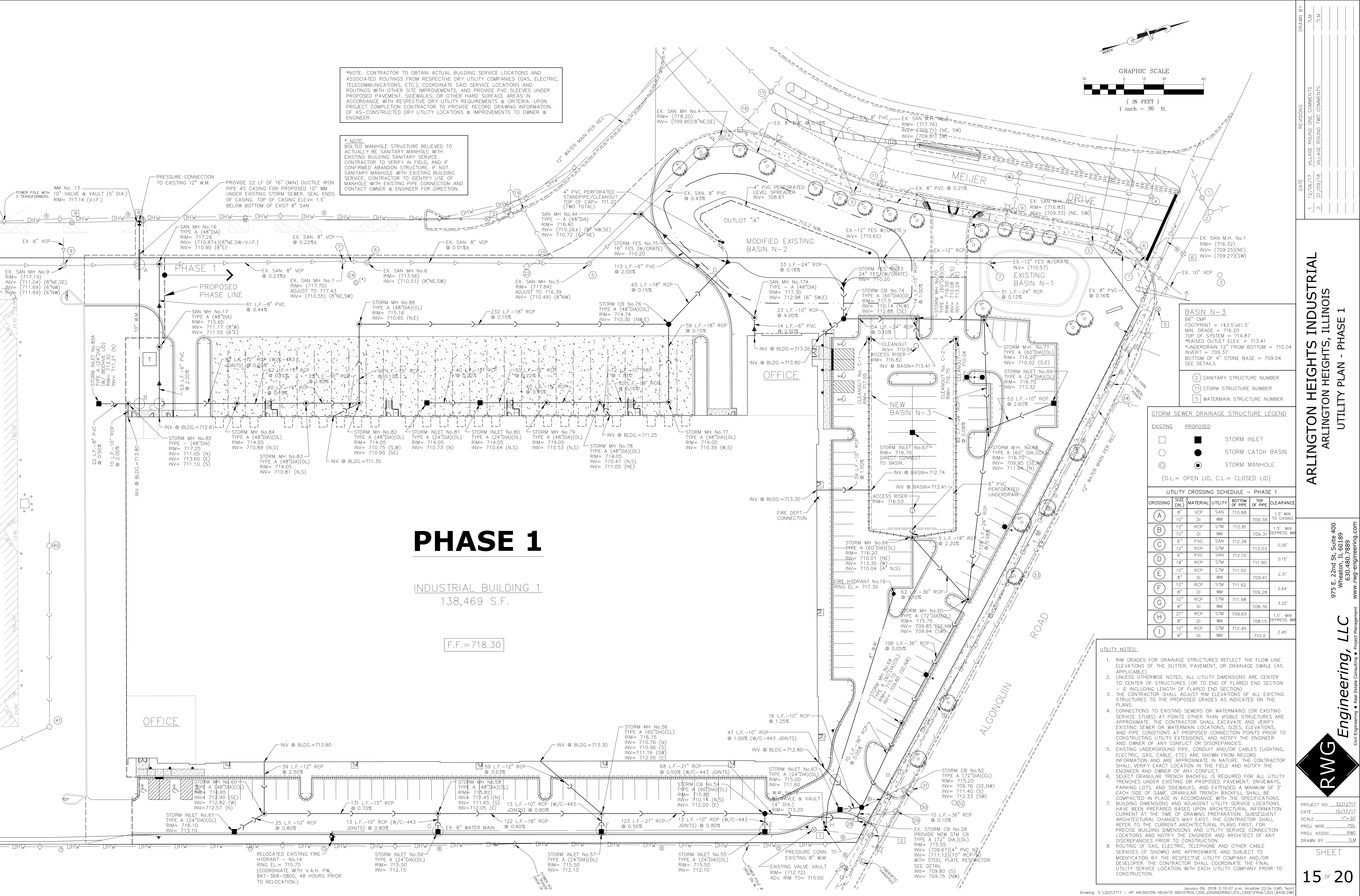
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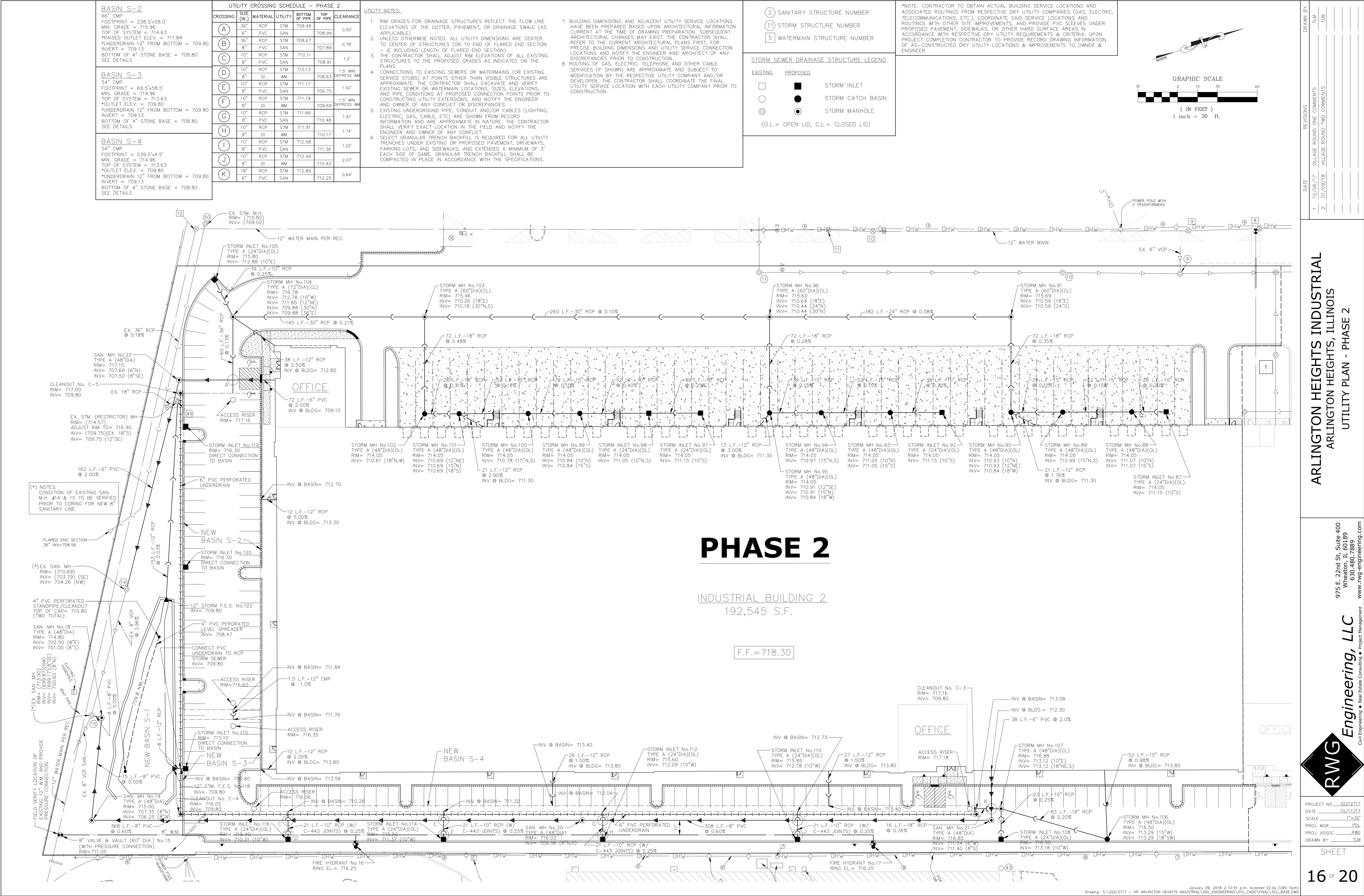
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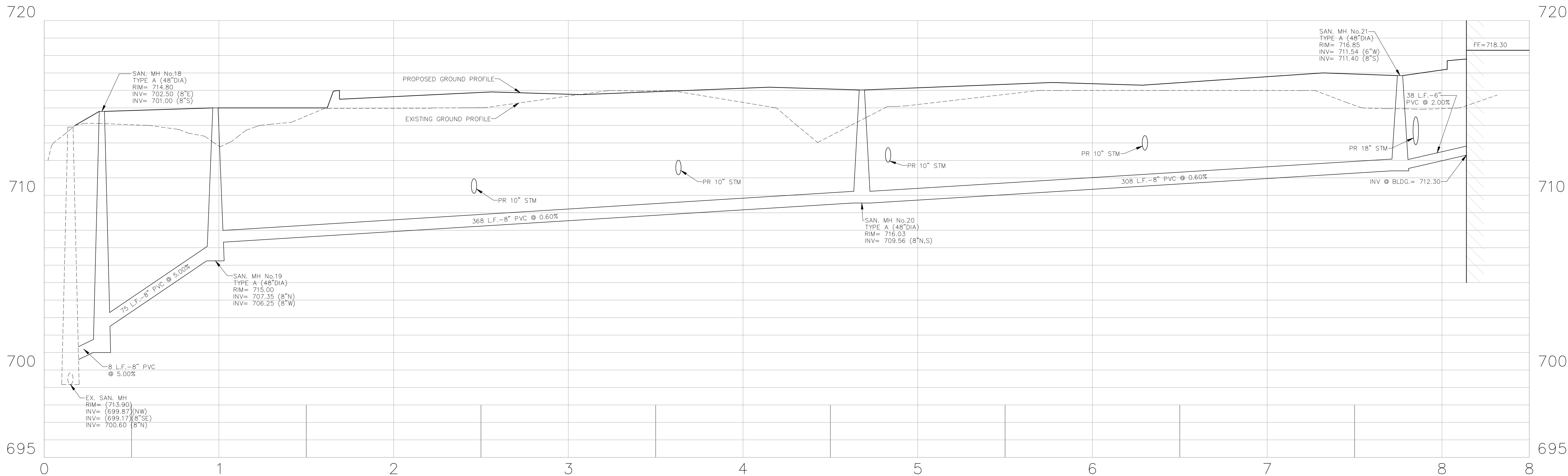
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DATE 10/11/17
SCALE 1"=30'
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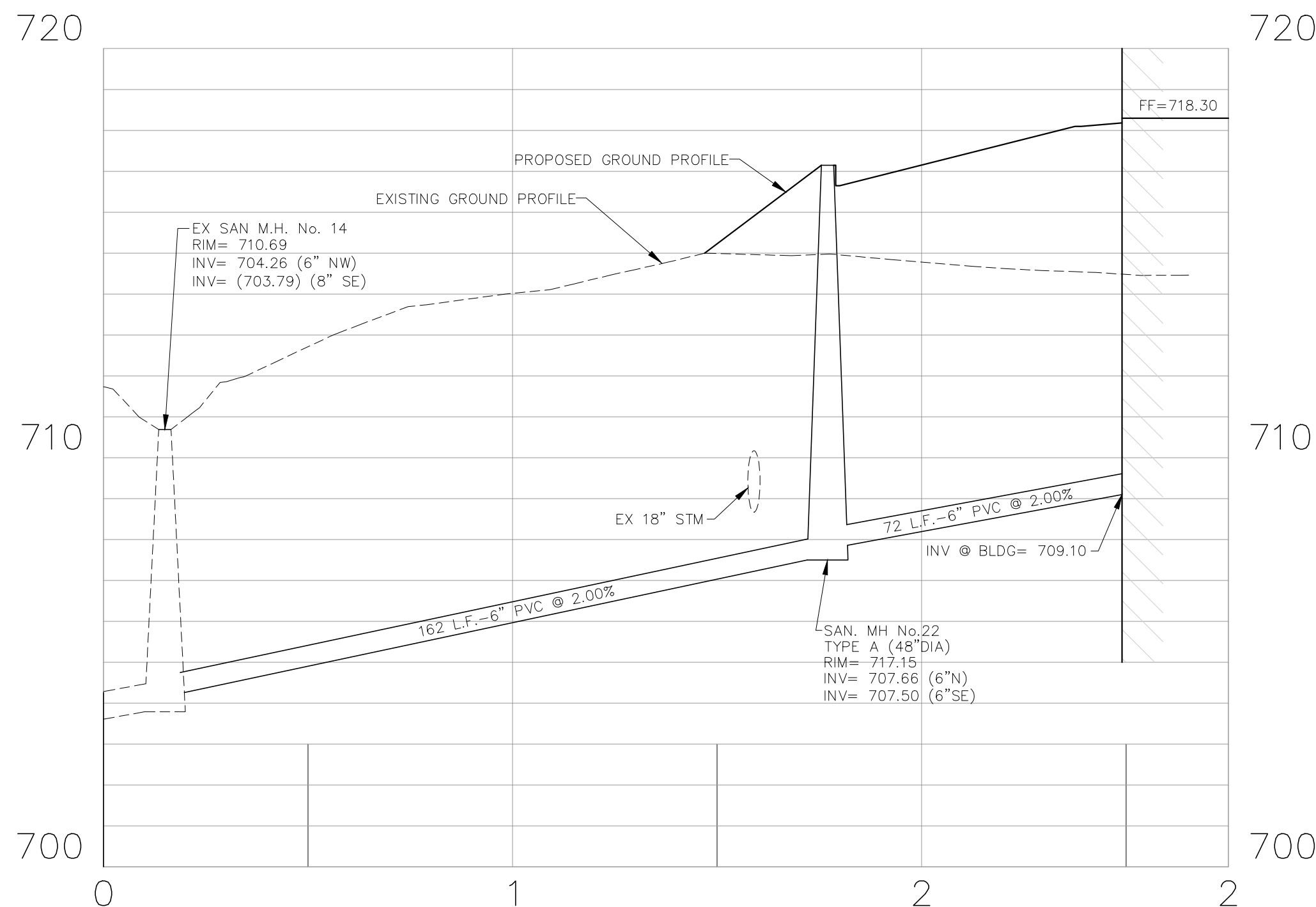




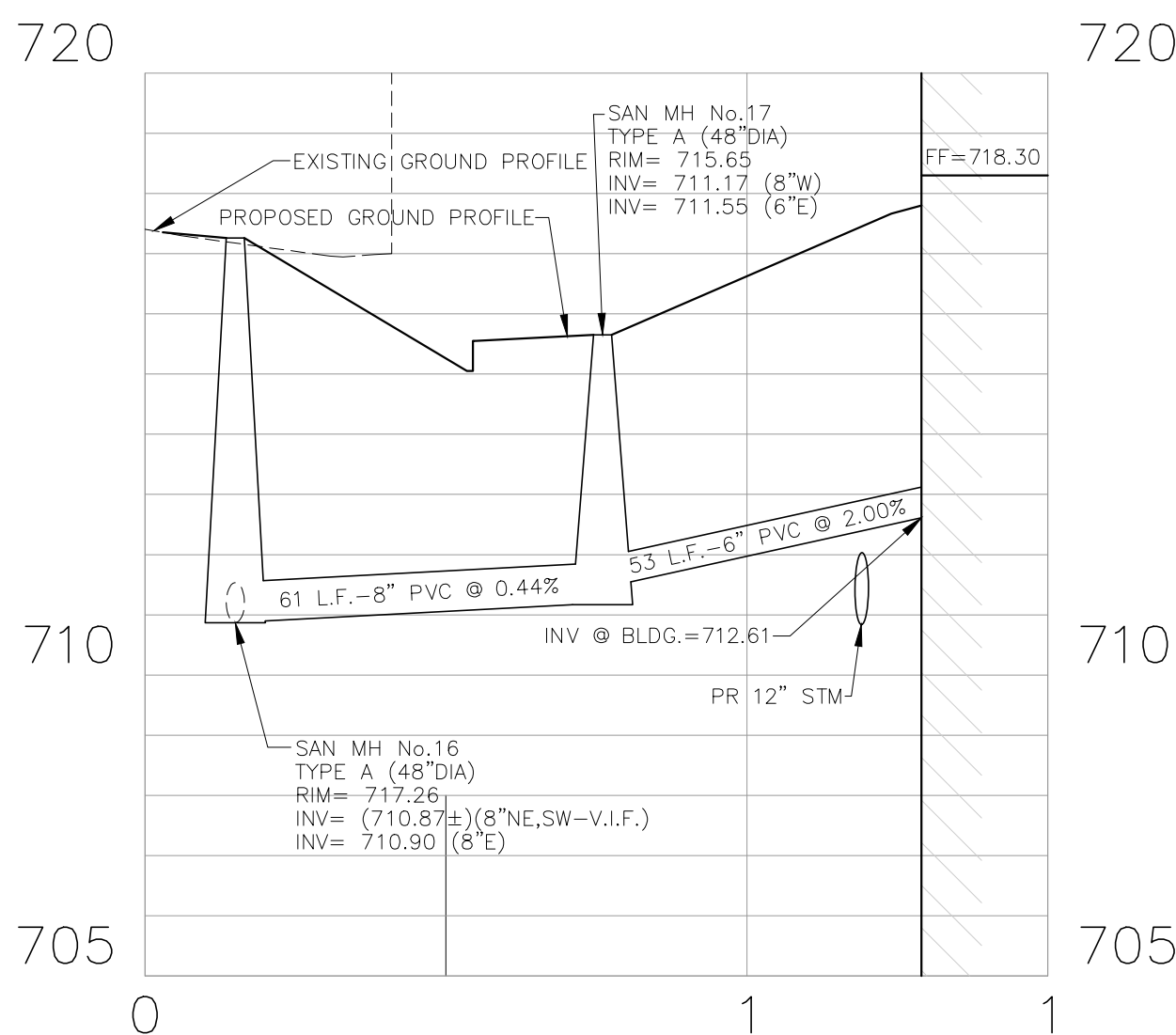




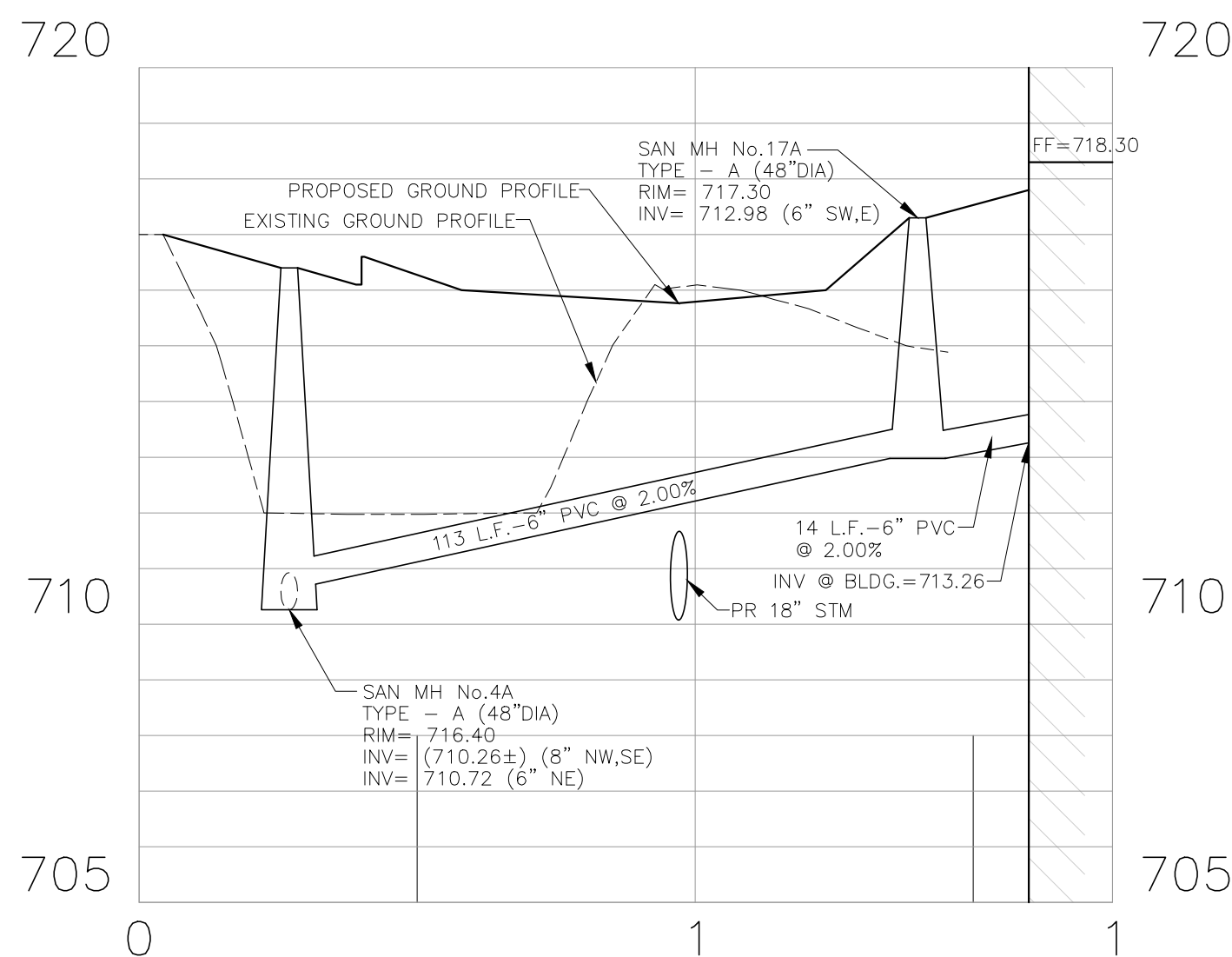
PHASE 2 - EAST SANITARY SERVICE
SCALE: 1"=30' HOR
1"= 3' VER



PHASE 2 - SOUTH SANITARY SERVICE
SCALE: 1"=30' HOR
1"= 3' VER



PHASE 1 - SOUTH SANITARY SERVICE
SCALE: 1"=30' HOR
1"= 3' VER



PHASE 1 - NORTH SANITARY SERVICE
SCALE: 1"=30' HOR
1"= 3' VER

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PLAN AND PROFILE - PHASE 1 & 2

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PROJECT NO.	32212717
DATE	10/17/17
SCALE	1"=30'
PROJ. MGR.	PRJ
PROJ. ASSOC.	RWG
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DATE	REVISIONS	DRAWN BY
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PROJECT NOTES AND SPECIFICATIONS

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PROJ. ASSOC.: RWS
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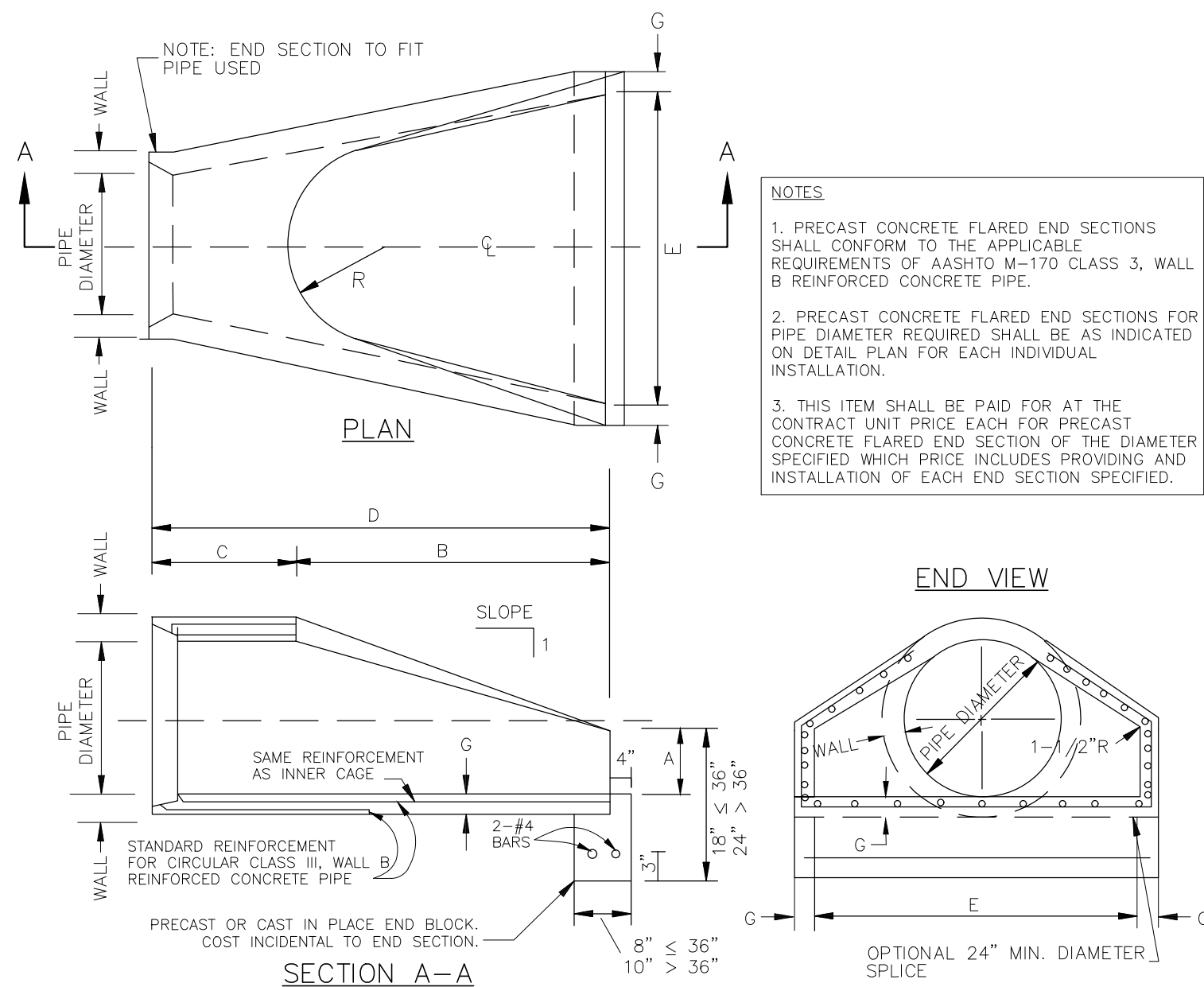
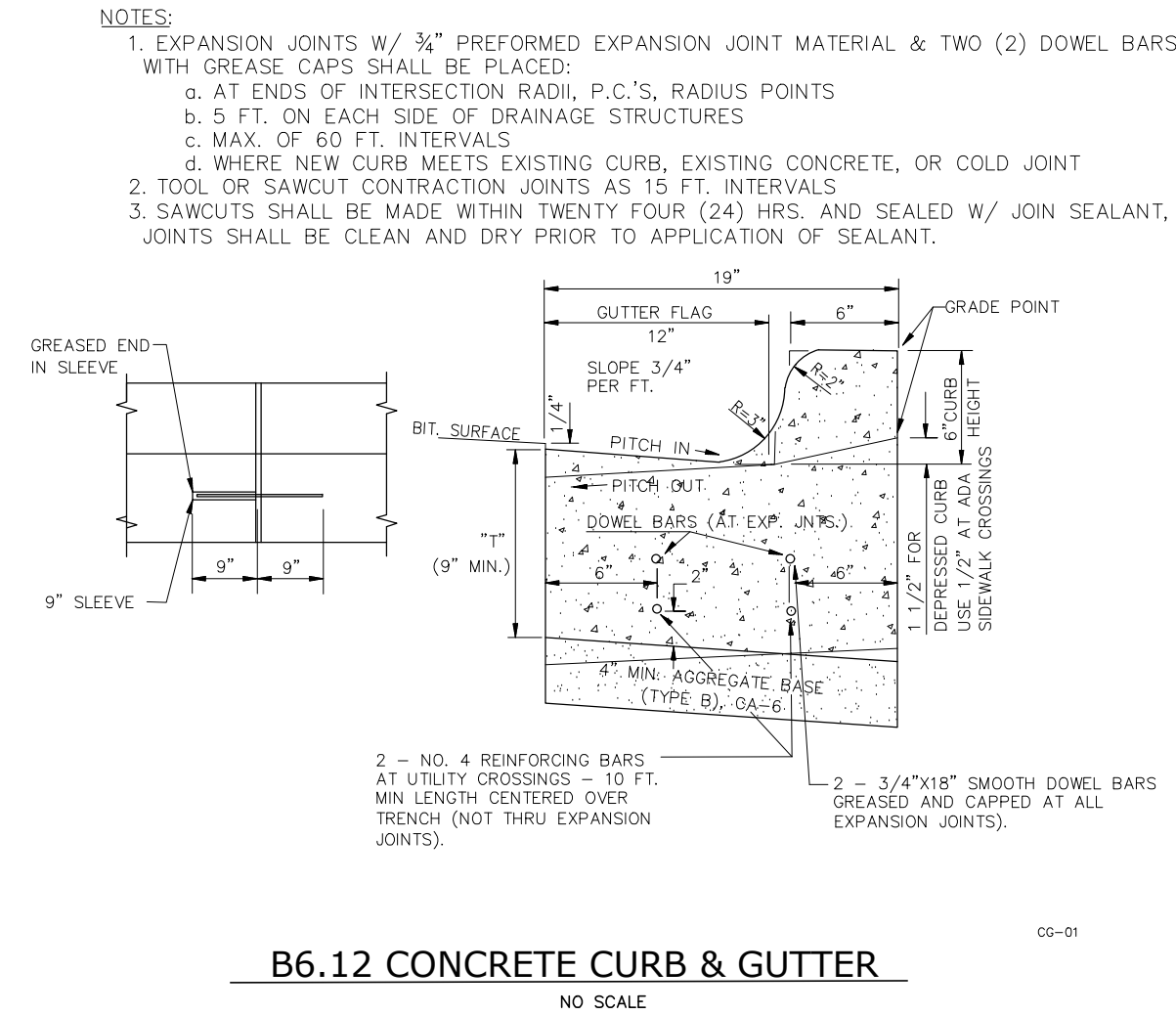
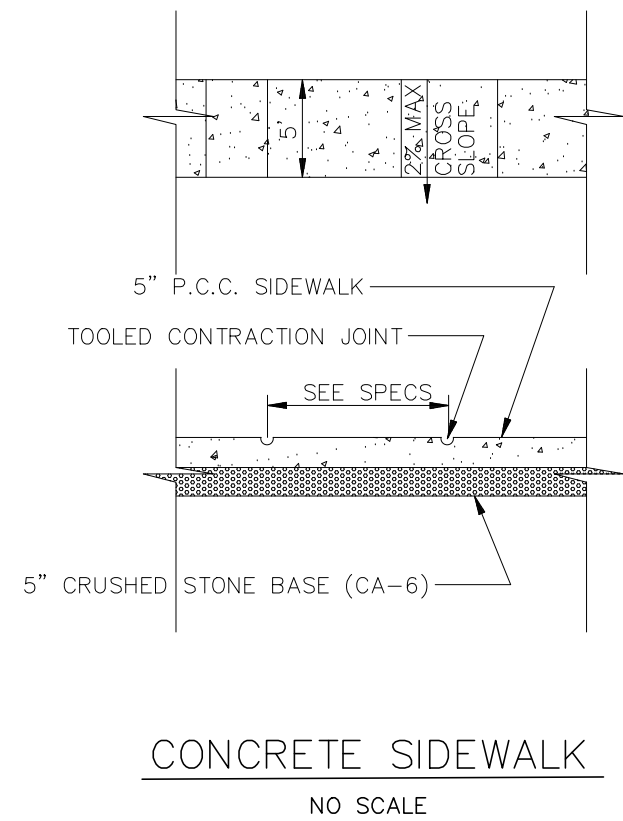
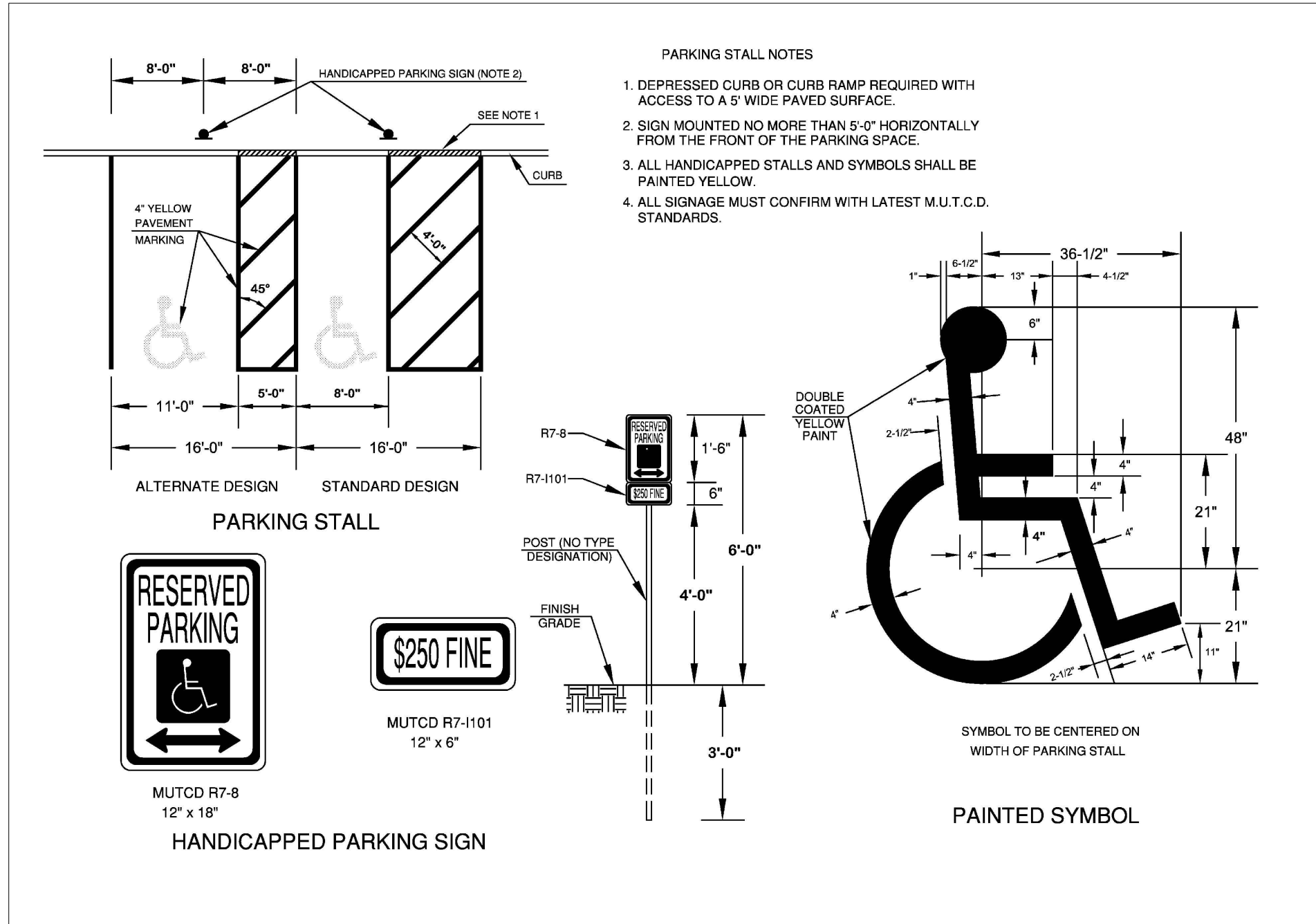
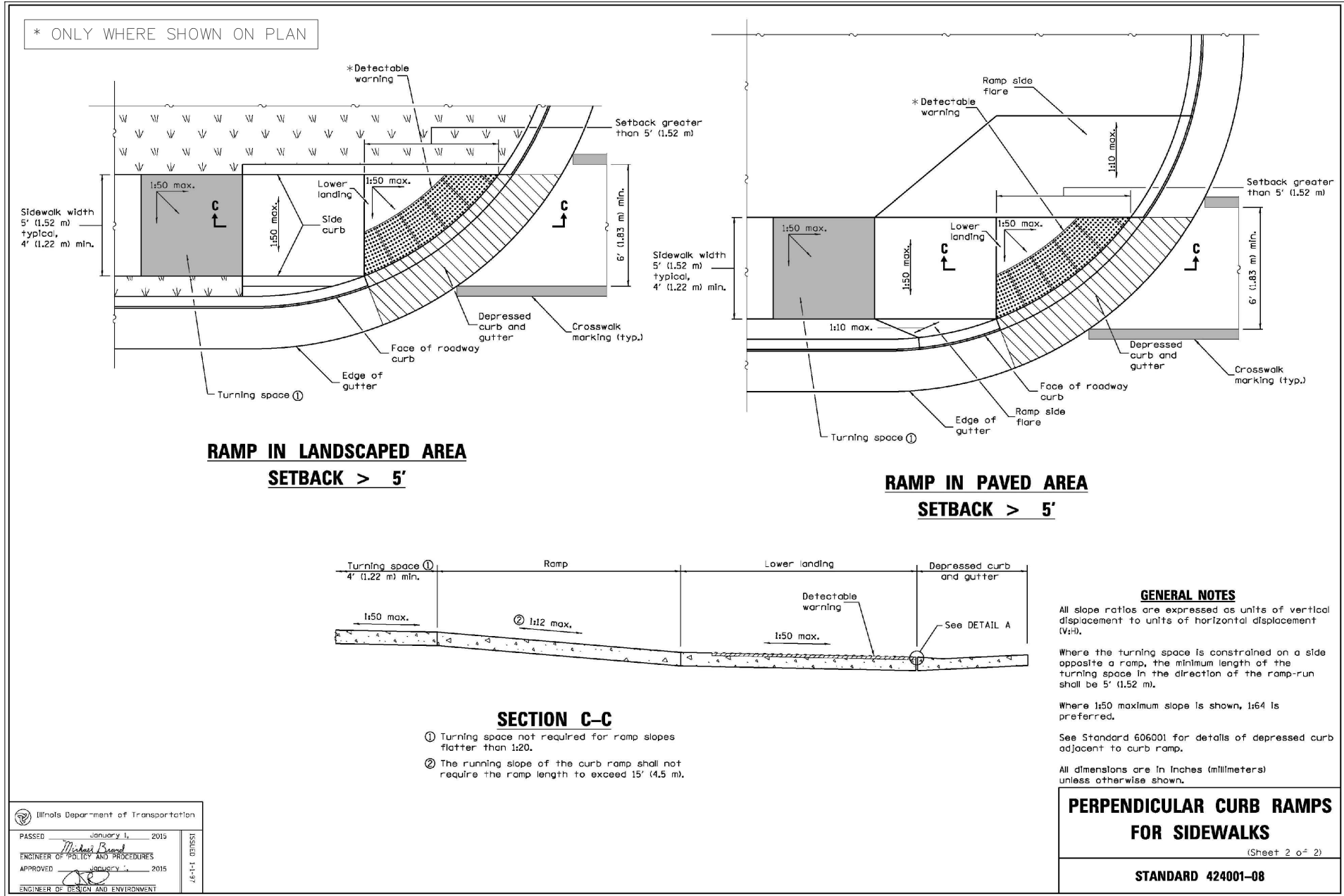
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January 03, 2018 2:12:45 p.m. Addrev:22.05 (LMS Tech)
ARLINGTON HEIGHTS INDUSTRIAL PARK PHASE II DEVELOPMENT

- GENERAL NOTES:**
 - ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - WARD, THE MUNICIPALITY AND THE OWNER OR OWNERS REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REVIEW ALL CONSTRUCTION IMPROVEMENTS.
 - THE CONTRACTORS SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWBD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
 - THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWBD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWBD, THE MUNICIPALITY, OR THE DISTRICT ENGINEER. THE CITY OF ARLINGTON HEIGHTS RESERVES THE RIGHT TO REQUEST THAT PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
 - THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND DO NOT REPRESENT AN EXHAUSTIVE SURVEY OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
 - ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
 - MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MATERIALS AND METHODS MANUAL FOR THE ILLINOIS HIGHWAY DEPARTMENT.
 - THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
 - ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE OR BELOW FINISH GRADE TO THE TOP OF THE STRUCTURE.
 - REQUIRED DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS RECORD IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, 8-INCH TEES OR BENDS SHALL BE SIZED UP TO A FIRE HYDRANT.
 - SANITARY SEWER**
 - THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING SANITARY SEWERS.
 - A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL IT IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWBD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
 - DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY.
 - ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
 - ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
 - ALL FOUNDATIONS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
 - ALL SANITARY SEWER PIPE MATERIALS AND JOINTS AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA SHALL CONFORM TO THE FOLLOWING:

	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VERTIFIED CLAY PIPE	ASTM C-760	ASTM C-485
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST-IRON SOUL-PIE	ASTM C-74	ASTM C-564
BUCTILE IRON PIPE	ANSI A21.1	ANSI A21.1
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3343	ASTM D-3343
15-INCH TO 27-INCH DIAMETER SDR 35	ASTM F-4374	ASTM F-4374
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3035	ASTM D-3035
WATER MAIN QUALITY HDPE	ASTM D-3035	ASTM D-3035
NATURAL POLYETHYLENE (PE)	ASTM D-2841	ASTM D-2841
4-INCH TO 18-INCH	AWWA C900	ASTM D-3672
18-INCH TO 48-INCH	AWWA C905	ASTM D-3672

- THE FOLLOWING MATERIALS ARE ALLOWED IN A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELIEF IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3812, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3812, F-477
- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STORM BEDDING WITH STONE #4 TO 1/2 IN. SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO THE NOMINAL DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CD-7, CD-8, OR CD-12 AND SHALL BE EXTENDED AT LEAST UP ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- "BAND SEAL" OR "RUBBER NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER CONSTRUCTION.
- ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKLEBALL AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
- A CHECK VALVE (CHECK VALVE) (CHECK VALVE) (CHECK VALVE) (CHECK VALVE) (CHECK VALVE)
- RUBBER TEE OR RUBBER ELBOW
- RUBBER TEE OR RUBBER ELBOW
- RUBBER TEE OR RUBBER ELBOW
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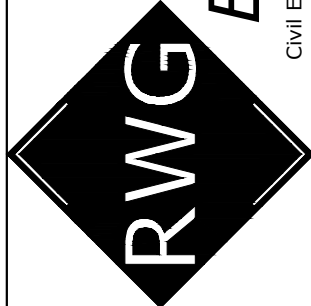


PIPE DIA.	APPROX. QTY. (lbs)	WALL (in)	A (in)	B (in)	C (in)	D (in)	E (in)	G (in)	R (in)	APPROX. SLOPE
12"	530	2	4	24	4'-0 7/8"	6'-0 7/8"	24	2	9	1:2.4
15"	740	2 1/4	6	27	3'-10"	6'-1"	30	2 1/4"	11	1:2.4
18"	990	2 1/2	9	27	3'-10"	6'-1"	36	2 1/2	12	1:2.4
21"	1280	2 3/4	9	35	38	6'-1"	3'-6"	2 3/4	13	1:2.4
24"	1520	3	9 1/2	3'-7 1/2"	30	6'-1 1/2"	4'-0"	3	14	1:2.5
27"	1930	3 1/4	10 1/2	4'-0"	25 1/2	6'-1 1/2"	4'-6"	3 1/4	14 1/2	1:2.4
30"	2190	3 1/2	12	4'-6"	19 3/4	6'-1 3/4"	5'-0"	3 1/2	15	1:2.5
33"	3200	3 3/4	13 1/2	4'-10 1/2"	39 1/4	8'-1 3/4"	5'-6"	3 3/4	17 1/2	1:2.5
36"	4100	4	15	5'-3"	34 3/4	8'-1 3/4"	6'-0"	4	20	1:2.5
42"	5380	4 1/2	21	5'-3"	35	8'-2"	6'-6"	4 1/2	22	1:2.5
48"	6550	5	24	6'-0"	26	8'-2"	7'-0"	5	22	1:2.5
54"	8240	5 1/2	27	5'-5"	35	8'-4"	7'-6"	5 1/2	24	1:2.0
60"	8730	6	35	5'-0"	39	8'-3"	8'-0"	5	*	1:1.9
66"	10710	6 1/2	30	6'-0"	27	8'-3"	8'-6"	5 1/2	*	1:1.7
72"	12520	7	36	6'-6"	21	8'-3"	9'-0"	6	*	1:1.8
78"	14770	7 1/2	36	7'-6"	21	9'-3"	9'-6"	6 1/2	*	1:1.8
84"	18160	8	36	7'-6 1/2"	21	9'-3 1/2"	10'-0"	6 1/2	*	1:1.6

* RADIUS AS FURNISHED BY MANUFACTURER

NOTE: GRATES, WHERE SPECIFIED, SHALL BE PROVIDED FOR ALL PRECAST REINFORCED CONCRETE FLARED END SECTIONS.

FES-02



Engineering, LLC

975 E. 22nd St, Suite 400
Wichita, KS 67203
www.rwg-engineering.com

PROJECT NO. 32212127
DATE 10/17/17
SCALE NONE
PROJ. MGR. PDL
PROJ. ASSOC. RWG
DRAWN BY TLM

SHEET

20 OF 20

ARLINGTON HEIGHTS INDUSTRIAL
ARLINGTON HEIGHTS, ILLINOIS
CONSTRUCTION DETAILS AND STANDARDS

DATE	REVISIONS	DRAWN BY
12/09/17	VILLAGE ROUND ONE COMMENTS	TLM
07/09/18	VILLAGE ROUND TWO COMMENTS	TLM

Technical drawing of a rectangular plate with dimensions 152 mm by 152 mm. The plate features a grid of 10 horizontal and 10 vertical lines. The left edge has a series of semi-circular indentations, and the top-left corner is chamfered.

PROJECT SUMMARY				NOTES
CALCULATION DETAILS	STORAGE SUMMARY	PIPE DETAILS	BACKFILL DETAILS	
• LENGTH PER BARREL = 138 FT	• STORAGE VOLUME REQUIRED 39,304 CF	• DIAMETER = 8" N	• WIDTH AT END = 12" N	
• APPROX. WASTE = 41,500 FT ³	• PIPE STORAGE = 19,388 CF	• CORRUGATION = 6" X 1" OR 7" X 1"	• ABOVE PIPE = 6" N	
• LOADING = 100 LBS/8'	• STRUCTURAL BACKFILL STORAGE = 8,835 CF	• GAGE = 15"	• WIDTH AT SIDES = 14" N	
• APPROX. CWP FOOTAGE = 1,304 FT	• TOTAL STORAGE PROVIDED = 39,322 CF	• COATING = ALUMINIZED STEEL	• BELOW PIPE = 4" N	
		• WALL TYPE = SOLID WALL WITH EXPLORATION JOINTS		
		• BARREL SPACING = 18" N		

[illegible]

Figure 1 is a plan view of the test specimen. It shows a rectangular plate with a width of 10 ft and a length of 250 ft. The plate is divided into sections by vertical stiffeners. The stiffeners are labeled '10 ft' and '250 ft'.

PROJECT SUMMARY			SIGMA
CALCULATION DETAILS	STORAGE SUMMARY	Pipe Details	Backfill Details
• LENGTH OF BARREL = 233 FT	• STORAGE VOLUME REQUIRED 96.527 CF	• DIAMETER = 96 IN	• WIDTH AT DGS = 12 IN
• PIPE THICKNESS = 98 FT	• PIPE STORAGE = 0.652 CF	• WALL THICKNESS = 1/2" X 3' X 1"	• ABOVE PIPE = 3 IN
• LENGTH TO HDS = 12 IN	• STRUCTURE, BACKFILL STORAGE = 1.864 CF	• COATING ALUMINIZED STEEL	• BELOW PIPE = 4 IN
• LADING + HDG = 2.5 IN	• TOTAL STORAGE PROVIDED = 96.527 CF	TYPES 2 ULTS.	
• APPROX. CAP POSTAGE = 1.022 FT		• COATING - SLOD W/SLM WITH EXPIRATION DATAS = 24 IN	
		• BARREL SPACING = 24 IN	
			REMARKS CORRECTED DATE

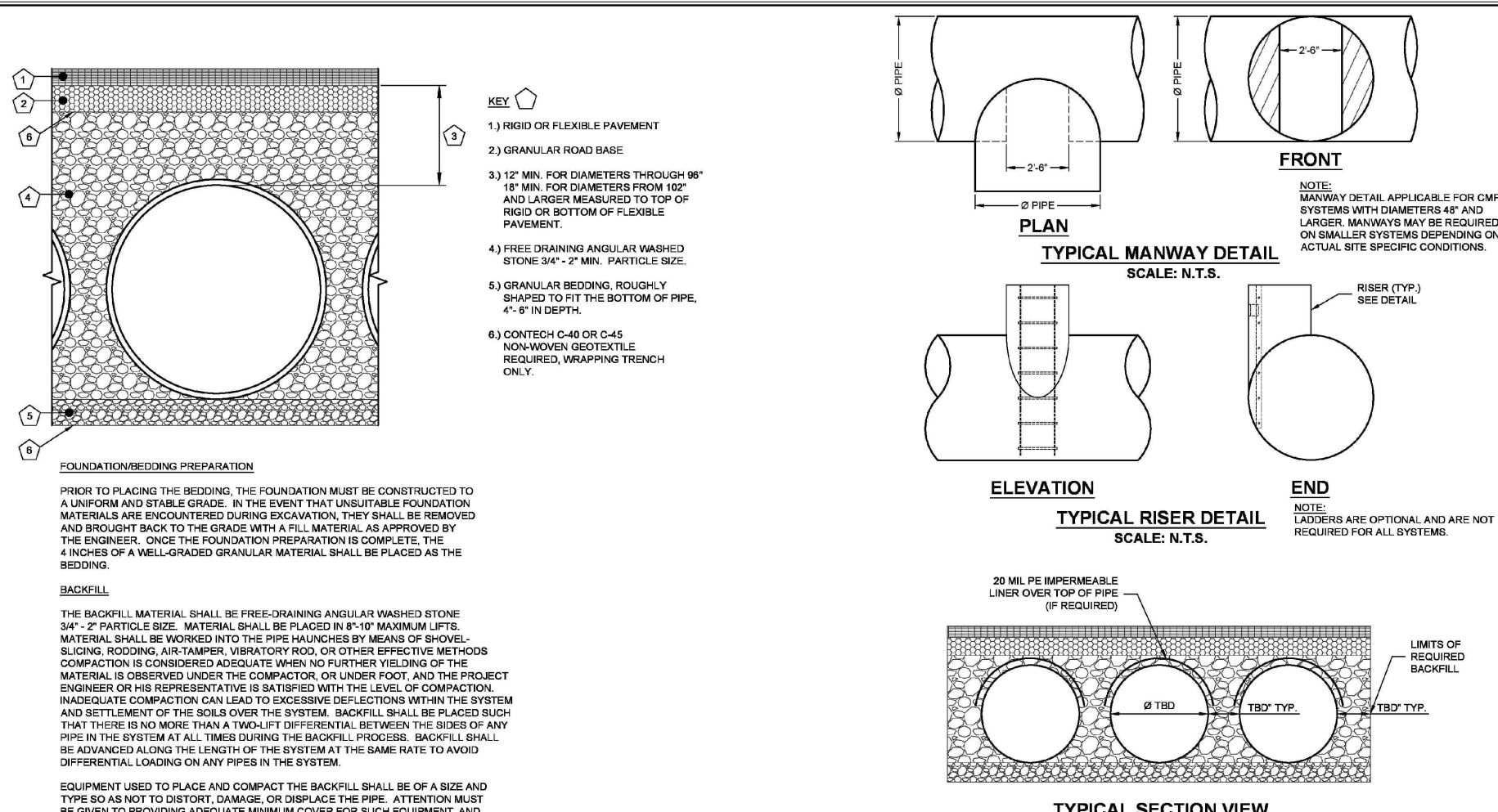
 		DYODS - 5308-2-0 PROJECT NAME: Arlington Heights Industrial Arlington Heights, IL DESCRIPTION: SOUTH SYSTEM - PHASE 2 - 66" PORTION		DRAWING NO. 5308-2-0 DATE 10/1/2017 DESIGNED BY: JMM/MS CHECKED BY: JMM/MS PROJECT NO.
SHEET NO. 21 DATE REVISION DESCRIPTION	5051 Cedar Pointe Dr., Suite 400, West Chicago, IL 60091 www.contech-es.com 815.358.1122 815.644.7000 815.644.7000 FAX	CONTECH CIVIL DETENTION SYSTEMS D1		

PROJECT SUMMARY				NOTES
CALCULATION DETAILS	STORAGE SUMMARY	PIPE DETAILS	BACKFILL DETAILS	
• LENGTH PER BARREL = 66 FT	• STORAGE VOLUME REQUIRED 14,675 CF	• DIAMETER = 36" N	• WIDTH AT BASE = 12' N	
• LENGTH PER HEADS = 66.50 FT	• PIPE STORAGE = 11,280 CF	• WALL THICKNESS = 0.5" X 12" OR 3" X 1"	• WIDTH AT TOP = 12' N	
• CLOSING + HD = 1.50 FT	• STRUCTURAL BACKFILL STORAGE = 3,406 CF	• GAGE = 16"	• WIDTH AT SIDES = 9' N	
• APPROX. CAMP FOOTAGE = 700 FT	• TOTAL STORAGE PROVIDED = 14,676 CF	• COATING = ALUMINIZED STEEL	• BELOW PIPE = 4' N	
		• PIPE IDENTITY		
		• WALL TYPE = SOLID WALL WITH EXPLORATION JOINTS		
		• BARREL SPACING = 18' N		



[illegible]

Elevation view of the bridge deck. The total length is 537'-8" and the width is 4'-0". The deck is supported by multiple vertical piers.

PROJECT SUMMARY				NOTES
CALCULATION DETAILS	STORAGE SUMMARY	PIPE DETAILS	BACKFILL DETAILS	
• LENGTH PER BARREL = 539.50 FT	• STORAGE VOLUME REQUIRED = 11,615.0 CF	• DIAMETER = 36 IN	• WIDTH AT BASE = 12 IN	
• LENGTH PER JOINT = 10.00 FT	• PIPE STORAGE = 4.80 CF	• COORDINATION: 6" X 12" OR 3" X 1"	• JOISTS PER JOINT = 12 IN	
• CHANGING LOG = 0.87	• STRUCTURAL BACKFILL STORAGE = 3,036 CF	• GAGE = 16	• WIDTH AT SIDES = 4 IN	
• APPROX. CAMP FOOTAGE = 540 FT	• TOTAL STORAGE PROVIDED = 11,615 CF	• GALVANIZED STEEL TYPE (A272)	• BELOW PIPE = 4 IN	
		• WALL TYPE = SOLID WALL WITH EXTRUSION JOINTS		
		• BARREL SPACING = 18 IN		

[illegible]

NOTE: IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON THE PROJECT, A GEOMEMBRANE BARRIER IS RECOMMENDED. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE UNDERLYING SOILS FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM THE RELEASE OF SALT FROM THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE CONSULT THE METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

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DATE	REVISION DESCRIPTION	BY						02	

