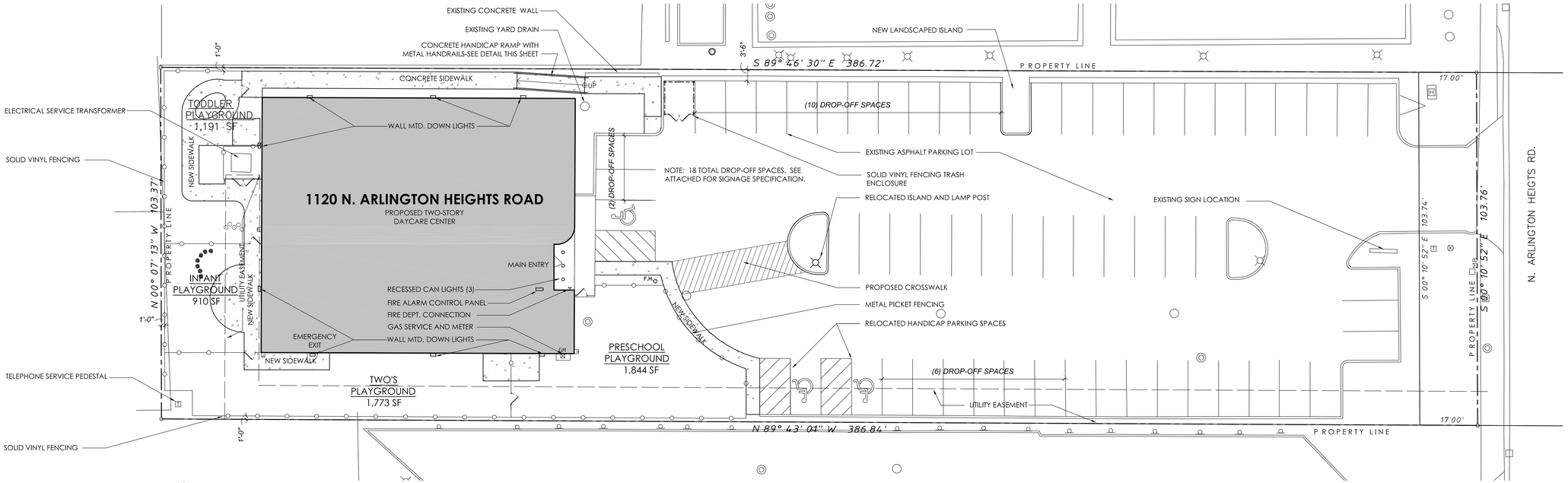


N

1 SITE PLAN

SCALE: 1/8" =1'-0"

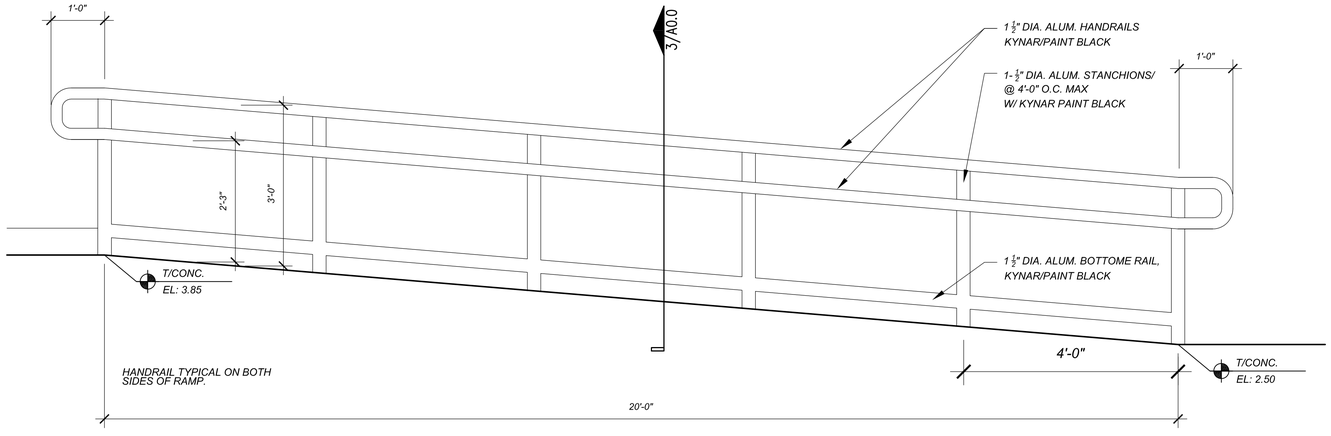
NOTE: SEE CIVIL AND LANDSCAPE DRAWINGS FOR DETAILS

PLAYGROUND SUMMARY

INFANT/TODDLER PLAY AREA
REQUIRED: 1,350 SF
ACTUAL SPACE = 2,101 SF

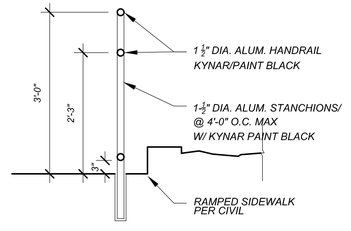
TWO'S PLAY AREA
REQUIRED: 1,200 SF
ACTUAL SPACE = 1,773 SF

PRESCHOOL PLAY AREA
REQUIRED: 1,500 SF
ACTUAL SPACE = 1,844 SF



2 RAMP HANDRAIL

SCALE: 1/8" =1'-0"



3 RAMP HANDRAIL

SCALE: 1/8" =1'-0"

M/A ARCHITECTS, LLC
655 DEERFIELD RD STE 100-103
DEERFIELD, ILLINOIS 60015
T. 847.648.6100

BRIGHT HORIZONS
FAMILY SOLUTIONS
1120 ARLINGTON HTS RD
ARLINGTON HEIGHTS, IL

NO.	REVISION DESCRIPTION	DATE
	CONST. DOCS	5/26/15

SHEET TITLE:
SITE PLAN
SITE DEMOLITION PLAN

SHEET NO.
A0.0

DATE
20 FEB 2015

PROJECT CONTACT INFORMATION

CLIENT: Bright Horizons Family Solutions LLC
200 Talcott Avenue South
Watertown, MA 02472
Tel: (815) 263-3350
Contact Person: Robert Ewald

ARCHITECT: M/A Architects
655 Deerfield Road
Suite 100-013
Deerfield, IL 60015
Tel: (847) 648-6100
Contact Person: Mike Aufderheide

LANDSCAPE ARCHITECT: Design Perspectives, Inc..
1280 Iriquois Avenue
Naperville, IL 60563
Tel: (630) 428-3134
Contact Person:

SURVEYOR: Haeger Engineering
1304 N. Plum Grove Road
Schaulburg, IL 60173
Tel: (847) 394-6600
Contact Person:

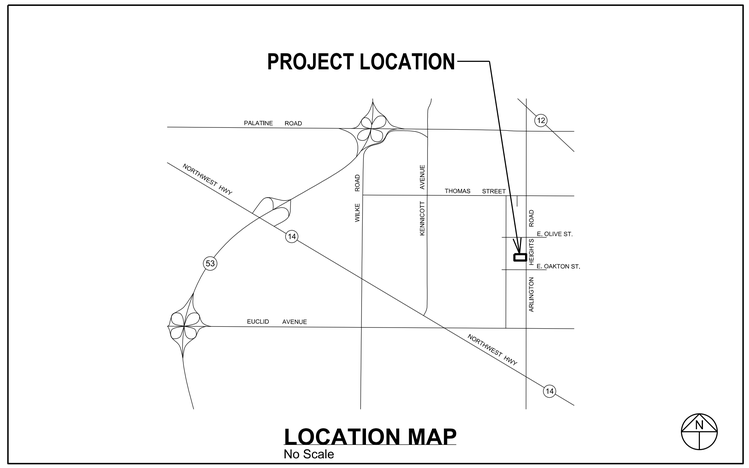
AGENCY/UTILITY CONTACT INFORMATION

MUNICIPALITY: Village of Arlington Heights
Engineering Department
33 S. Arlington Heights Road
Arlington Heights, IL 60005
Tel: (847) 362-5250
Contact Person: James Massarelli, P.E.

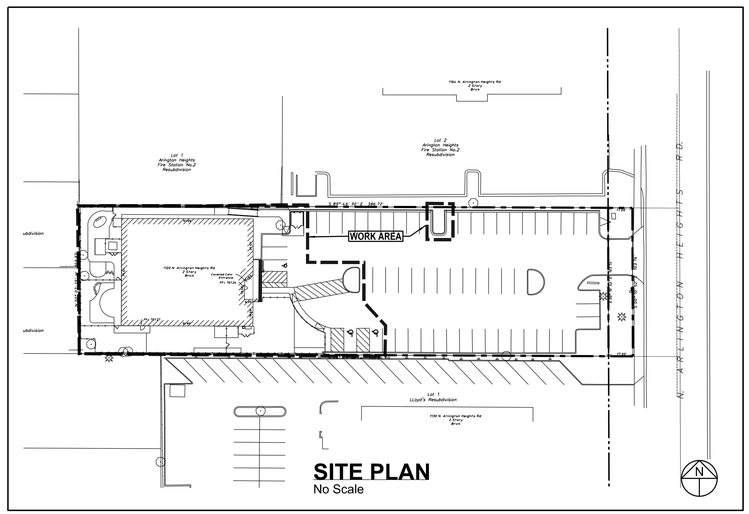
CONTACT JULIE AT 811 OR 800-892-0123
With the following:
County Cook
City/Township Arlington Heights / 42N
Sec & 1/4 Sec No. Section 20, SW ¼
48 HOURS (2 working days) BEFORE YOU DIG

SITE IMPROVEMENT PLANS
for
Bright Horizons Family Solutions
1120 N. ARLINGTON HEIGHTS ROAD
Arlington Heights, Illinois 60004

(CEAI Project #: 1501)



LOCATION MAP
No Scale



SITE PLAN
No Scale

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF RENOVATION OF THE BUILDING TO PROVIDE A DAYCARE FACILITY. THE EXISTING SERVICE DRIVE RUNNING DOWN THE SOUTH SIDE OF THE BUILDING WILL BE REMOVED, AS WELL AS A PORTION OF THE EXISTING PARKING LOT LOCATED AT THE SOUTHEAST CORNER OF THE BUILDING.

CHILDREN'S PLAYGROUNDS WILL BE CONSTRUCTED AT THE REAR AND SOUTH SIDES OF THE BUILDING. THIS WILL CONSIST OF CONCRETE SIDEWALKS, LAWN AREAS, ARTIFICIAL TURN AND RUBBERIZED SAFETY PLAY SURFACES.

THE ARTIFICIAL TURF WILL BE PLACED ON WASHED GRAVEL BASE TO ALLOW STORMWATER INFILTRATION. THE RUBBERIZED PLAY SURFACE WILL BE PLACED ON COMPACTED CA-6 STONE BASE AND IS CONSIDERED IMPERVIOUS AREA.

AS A RESULT OF THESE IMPROVEMENTS, THERE WILL BE A NEGLIGIBLE INCREASE OF 259 SF OF IMPERVIOUS AREA ON THE PROPERTY AS A RESULT OF THIS PROJECT.

PROPERTY AREA SUMMARY

NET PROPERTY AREA	0.879 AC
USED FOR ROW	0.121 AC
GROSS PROPERTY AREA	***1.000 AC***

PROJECT WORK AREA

TOTAL AREA DISTURBED	**9,756 SF**
EXISTING IMPERVIOUS AREA	5,181 SF
PROPOSED IMPERVIOUS AREA	4,922 SF
NET DIFFERENCE	***259 SF***

NEGLIGIBLE INCREASE IN IMPERVIOUS AREA

PARKING SUMMARY

EXISTING PARKING	
STANDARD STALLS	64
ADA STALLS	3
TOTAL	***67***
PROPOSED PARKING	
STANDARD STALLS	55
ADA STALLS	3
TOTAL	***58***

SHEET INDEX

C1 - COVER SHEET
C2 - EXISTING CONDITIONS SURVEY
C3 - DEMOLITION AND EROSION CONTROL PLAN
C4 - GEOMETRIC PLAN
C5 - GRADING PLAN
C6 - UTILTY PLAN I
C7 - GENERAL NOTES AND SPECIFICATIONS
C8 - DETAILS 1
C9 - DETAILS 2

PROFESSIONAL ENGINEER CERTIFICATION

I, STEPHEN J. CROSS, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THATTHIS SUBMISSION WAS PREPARED ON BEHALF OF THE PROPERTY OWNER BY CROSS ENGINEERING & ASSOCIATES, INC. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 1st DAY OF June, 2015.

ILLINOIS LICENSED PROFESSIONAL ENGINEER 062-049984
LICENSE EXPIRATION: NOVEMBER 30, 2015

ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-005623
LICENSE EXPIRATION: APRIL 30, 2017

STEPHEN J. CROSS 062-049984 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS

Bright Horizons Family Solutions, Arlington Heights, IL

M/A ARCHITECTS, LLC
655 DEERFIELD RD STE 100-103
DEERFIELD, ILLINOIS 60015
T. 847.648.6100

BRIGHT HORIZONS
FAMILY SOLUTIONS
1120 ARLINGTON HTS RD
ARLINGTON HEIGHTS, IL

CIVIL ENGINEER:

Cross Engineering & Associates, Inc.
1955 Raymond Drive, Suite 119
Northbrook, IL 60062
Tel: 847/498-0800

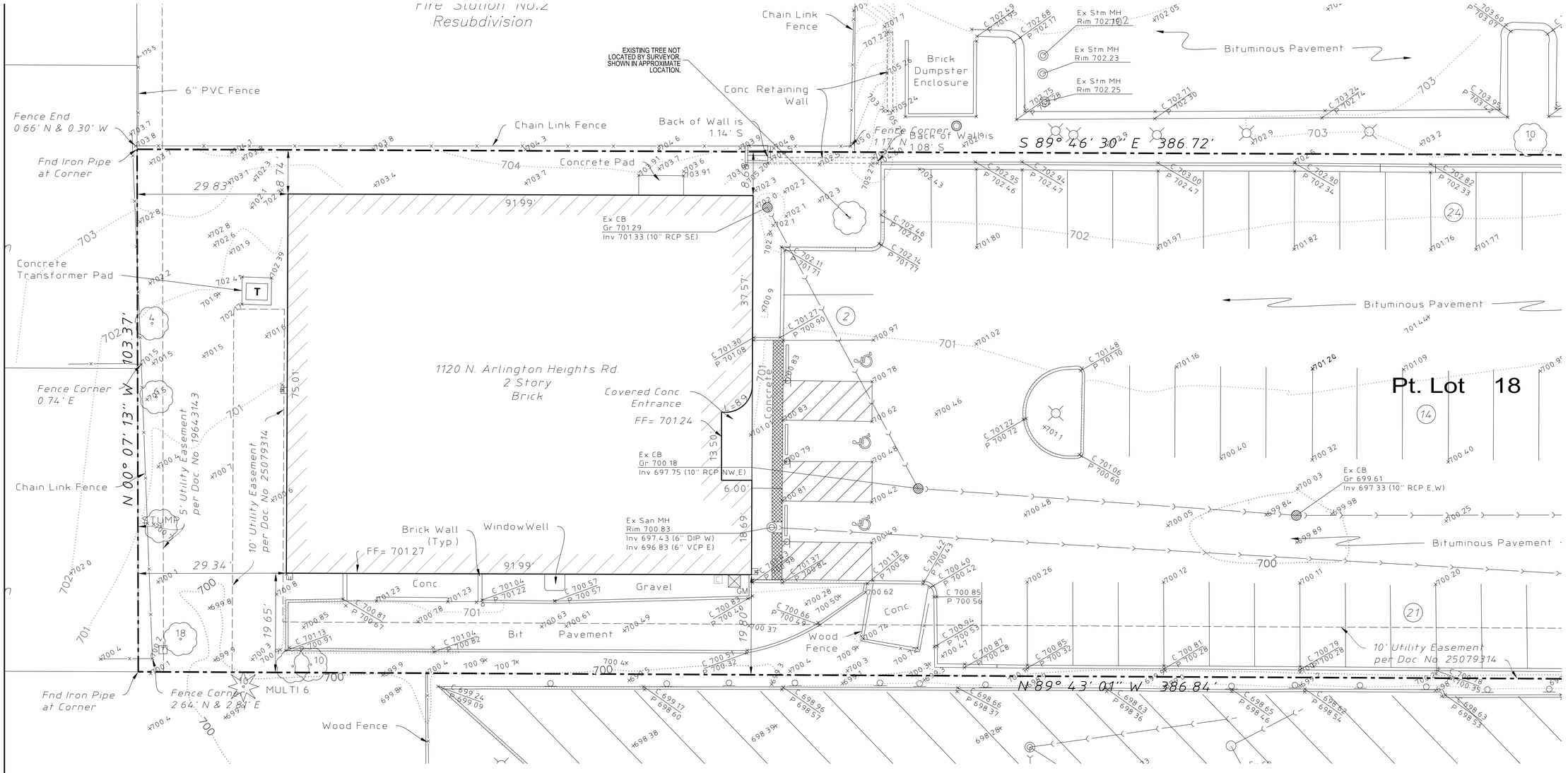
NO.	REVISION DESCRIPTION	DATE
3	Per Vill. Comments	6/12/15
2	For Permit Submittal	6/1/15
1	FOR BIDS	5/29/15

SHEET TITLE:
COVER SHEET

SITE IMPROVEMENT PLANS

SHEET NO.
C1

DATE
5/28/15



BENCHMARK:

TO BE PROVIDED BY HAEGER ENGINEERING.

NOTES:

1. TOPOGRAPHIC SURVEY AND BOUNDARY SURVEY PROVIDED BY HAEGER ENGINEERING DATED JANUARY 23, 2015.

LEGAL DESCRIPTION

THE SOUTH 1 ACRE OF LOT 18 IN ALLISON'S ADDITION TO ARLINGTON HEIGHTS, BEING A SUBDIVISION OF THE SOUTHWEST 1/4 OF SECTION 20, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN (EXCEPT THE WEST 1/2 OF THE SOUTHWEST 1/4 THEREOF AND THE SOUTH 4 ACRES OF THE EAST 1/2 OF THE SOUTHWEST 1/4) IN COOK COUNTY, ILLINOIS.

LEGEND

- Manhole
- Catch Basin
- Inlet
- Valve Box
- Well Head
- Sprinkler
- Light Pole
- Hand Hole
- Fence
- Sign
- Gas Meter
- Telephone Pedestal
- Cable TV Pedestal
- Mailbox
- Number of Parking Stalls
- Curb & Gutter
- Depressed Curb
- Retaining Wall

0 10 20 30 40 N

SCALE IN FEET

M/A

M/A ARCHITECTS, LLC

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DEERFIELD, ILLINOIS 60015
T. 847.648.6100

BRIGHT HORIZONS FAMILY SOLUTIONS
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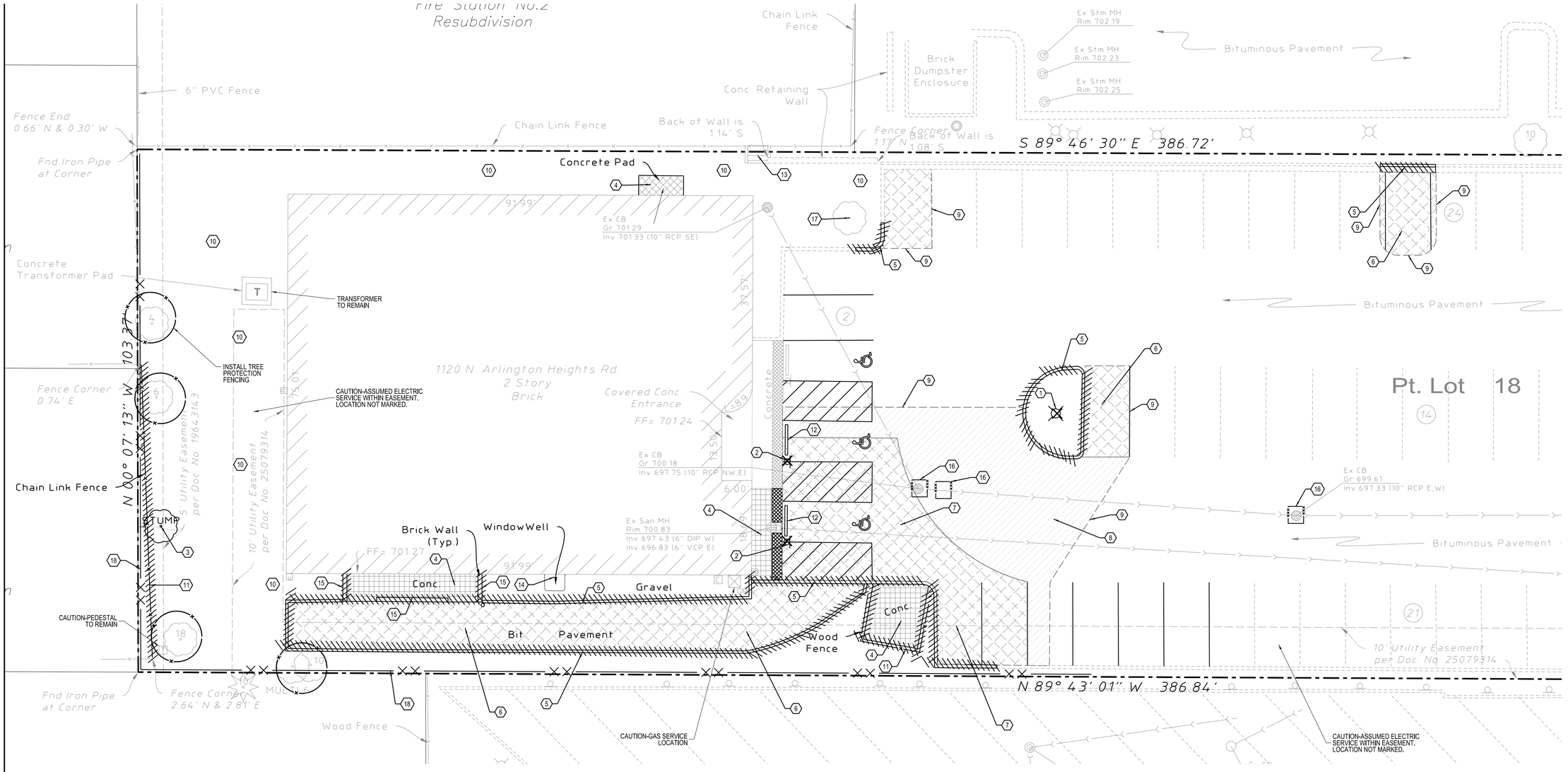
3	Per Vill. Comments	6/12/15
2	For Permit Submittal	6/1/15
1	FOR BIDS	5/29/15

SHEET TITLE:
EXISTING CONDITIONS SURVEY

SITE IMPROVEMENT PLANS

SHEET NO.
C2

DATE
5/28/15



DEMOLITION LEGEND

- CURB AND GUTTER REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- COLD MILL SURFACE COIURSE
- LIGHT POLE/UTILITY STR REMOVAL
- SIGN REMOVAL
- LIMIT OF PAVEMENT REMOVAL/ REPLACEMENT (APPROXIMATE)

DEMOLITION LEGEND

1. REMOVE LIGHT POLE AND BASE (LIGHT POLE TO BE RELOCATED TO NEW BASE)
2. REMOVE PARKING SIGN
3. REMOVE TREE, GRIND STUMP (SEE LANDSCAPE PLANS)
4. REMOVE CONCRETE
5. REMOVE CURB AND GUTTER
6. REMOVE PAVEMENT, FULL
7. REMOVE ASPHALT AND AGGREGATE AS NEEDED
8. COLD-MILL ASPHALT SURFACE, 1.5"
9. PAVEMENT SAWCUT LINE, APPROXIMATE LIMITS
10. REMOVE TOPSOIL AND ORGANIC UNSUITABLE MATERIAL UNDER PROPOSED IMPROVEMENTS
11. REMOVE FENCE
12. REMOVE WHEELSTOPS
13. REMOVE STEPS
14. REMOVE WINDOW WELL (SEE ARCH. PLANS)
15. REMOVE WALL AND FOUNDATION
16. INLET FILTER BASKET
17. RELOCATE TREE (SEE LANDSCAPE PLANS)
18. SILT FENCE

NOTES:

1. ALL SIDEWALK TO BE REMOVED SHALL BE SAWCUT AT CONSTRUCTION JOINT. IF LOCATION SHOWN IS NOT AT A JOINT, THE CONTRACTOR SHALL EXTENDS THE SIDEWALK REMOVAL AND REPLACEMENT TO THE NEXT JOINT.
2. ALL CURB TO BE REMOVED SHALL BE SAWCUT. IF AN EXISTING CONSTRUCTION JOINT, OR CRACK IS LOCATED WITHIN 2 FEET OF THE SAWCUT LOCATION, THE CONTRACTOR SHALL EXTEND THE REMOVAL LIMITS TO THE EXISTING JOINT OR 12 INCHES PAST THE CRACK.
3. EXISTING LIGHT POLE IN WORK AREA IS TO BE RELOCATED. CONTRACTOR SHALL REMOVE POLE AND FIXTURE AND STORE ONSITE AT THE OWNERS DIRECTION FOR RE-USE. CONTRACTOR SHALL LOCATE EXISTING WIRING PRIOR TO STARTING WORK AND SHALL NOTIFY THE ENGINEER IF THERE IS A CONFLICT WITH THE PROPOSED WORK AND WIRING TO REMAIN.
4. EROSION CONTROL MEASURES ARE TO BE INSTALLED AND FUNCTIONING PRIOR TO STARTING DEMOLITION WORK.
5. CONTRACTOR SHALL STRIP TOPSOIL AND REMOVE ALL ORGANIC AND UNSUITABLE MATERIAL FROM ALL EXISTING LANDSCAPED AREAS THAT ARE TO RECEIVE PAVEMENT OR SIDEWALKS. CONTRACTOR SHALL PROOF-ROLL AREAS FOR PAVEMENT WITH A FULLY LOADED DUMP TRUCK AND REMOVE ANY UNSUITABLE MATERIAL CAUSING DEFLECTION GREATER THAN 0.25".
6. CONTRACTOR SHALL VERIFY THE PAVEMENT SAWCUT LIMITS TO ENSURE SUFFICENT ROOM TO TRANSITION PAVEMENT SLOPES BETWEEN EXISTING AND PROPOSED PAVEMENT USING EXISTING PAVEMENT SLOPES. PAVEMENT SHALL BE SAWCUT A SECOND TIME, JUST PRIOR TO PATCHING PAVEMENT IF SAWCUT EDGES HAVE BEEN DAMAGED AND ARE NOT A NEAT EDGE. FINAL ACTUAL LIMITS OF PAVEMENT REMOVAL MAY VARY IN THE FIELD.
7. OTHER INCIDENTAL ITEMS THAT NEED TO BE DEMOLISHED TO BUILD THE IMPROVEMENTS AS SHOWN MAY NOT BE SHOWN ON THE PLANS. CONTRACTOR SHALL INCLUDE ALL OTHER REMOVAL ITEMS AS INCIDENTAL REMOVAL IN ORDER TO BUILD THE IMPROVEMENTS AS SHOWN.

0 10 20 30 40 N

SCALE IN FEET

M/A

M/A ARCHITECTS, LLC

655 DEERFIELD RD STE 100-103
DEERFIELD, ILLINOIS 60015
T. 847.648.6100

BRIGHT HORIZONS
FAMILY SOLUTIONS
1120 ARLINGTON HTS RD
ARLINGTON HEIGHTS, IL

CIVIL ENGINEER:

Cross

Cross Engineering & Associates, Inc.
1955 Raymond Drive, Suite 119
Northbrook, IL 60062
Tel: 847/498-0800

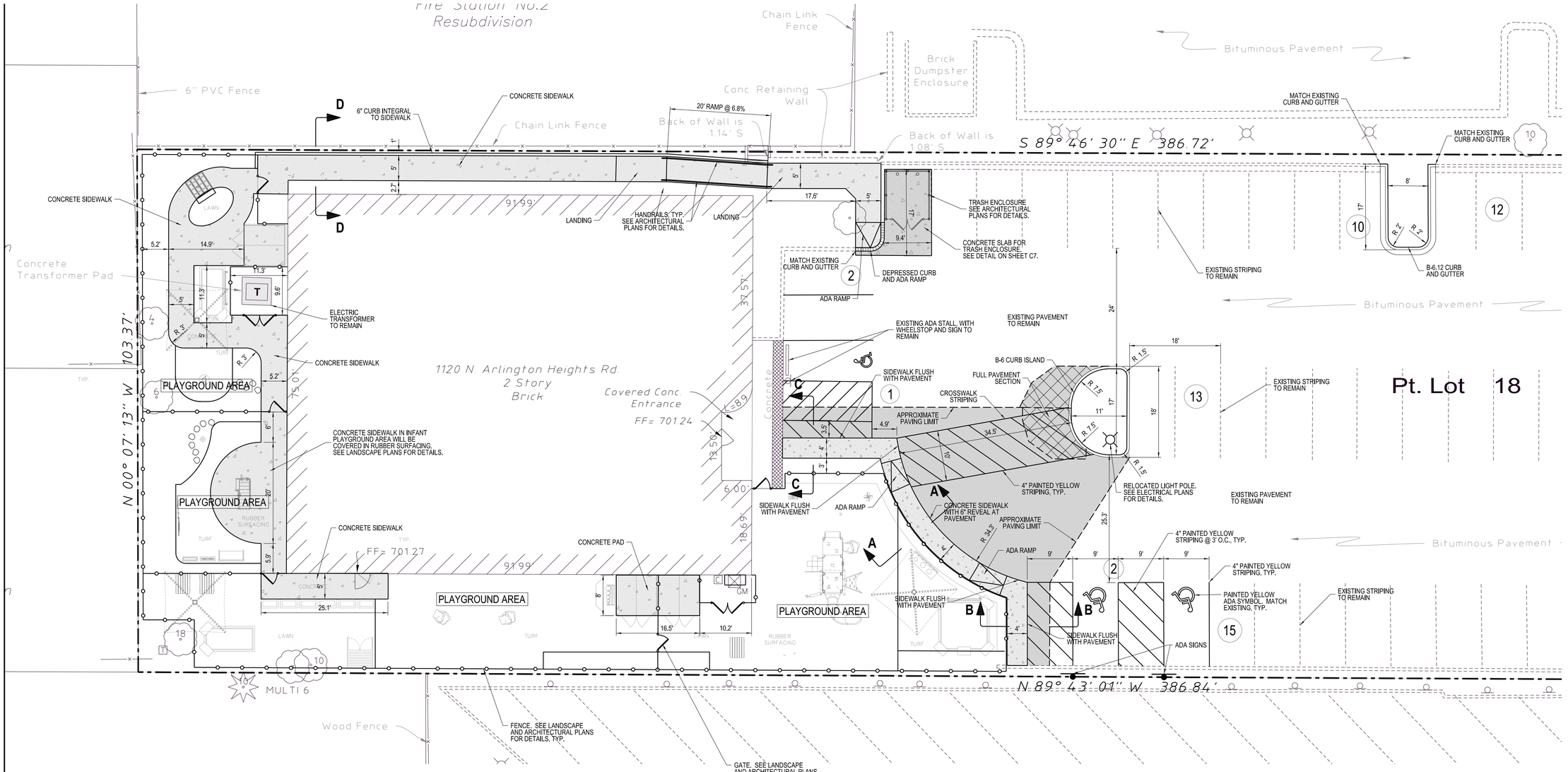
NO.	REVISION DESCRIPTION	DATE
3	Per Vill. Comments	6/12/15
2	For Permit Submittal	6/1/15
1	FOR BIDS	5/29/15

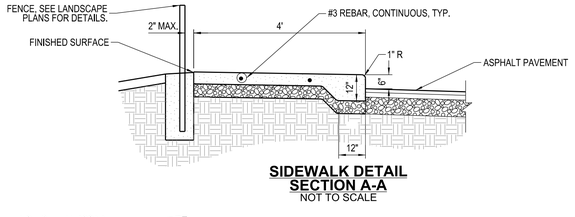
SHEET TITLE:
DEMOLITION AND EROSION CONTROL PLAN

SITE IMPROVEMENT PLANS

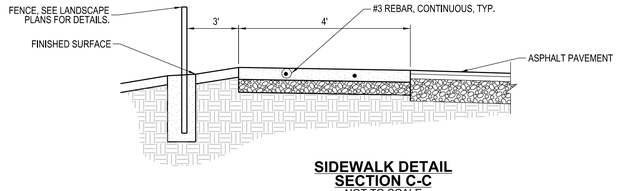
SHEET NO.
C3

DATE
5/28/15

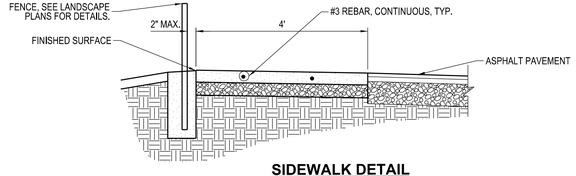




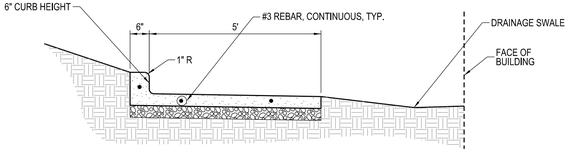
SIDEWALK DETAIL SECTION A-A
NOT TO SCALE



SIDEWALK DETAIL SECTION C-C
NOT TO SCALE



SIDEWALK DETAIL SECTION B-B
NOT TO SCALE



SIDEWALK DETAIL SECTION D-D
NOT TO SCALE

NOTES:

1. ALL DIMENSIONS ARE MEASURED TO THE BACK OF CURB, END OF STRIPE UNLESS NOTED OTHERWISE.
2. SEE ARCHITECTURAL AND LANDSCAPE PLANS FOR PLAYGROUND SURFACES AND ADA HANDRAIL DETAILS.
3. SEE LANDSCAPE PLANS FOR DETAIL OF THE SIDEWALK WITHIN THE PLAYGROUND AREA. SEE SHEET C7 FOR DETAIL OF SIDEWALK IN ALL OTHER AREAS. ALL SIDEWALKS OUTSIDE THE PLAYGROUND AREA SHALL BE 5" P.C.C. OVER 4" CA-6 AGGREGATE BASE.
4. PAVEMENT: FOR PAVEMENT DETAILS, SEE SHEET C7.
5. CURB GUTTER SHALL BE PITCHED AS NEEDED TO PROVIDE POSITIVE DRAINAGE.
6. OVERALL PARKING STALL LENGTH PROVIDED IS 18'.
7. SEE SHEET C7 FOR SECTIONS THROUGH SIDEWALKS.

LEGEND

- CONCRETE PAVEMENT (8") OR SIDEWALK (5")
- ASPHALT PAVEMENT (LEVELING BINDER AND SURFACE COURSE)
- ASPHALT PAVEMENT, FULL DEPTH
- B-6.12 CURB AND GUTTER
- B-6.12 CURB AND GUTTER, DEPRESSED CURB
- B-6 CURB
- B-6 CURB, DEPRESSED

0 10 20 30 40 N
SCALE IN FEET

M/A ARCHITECTS, LLC
655 DEERFIELD RD STE 100-103
DEERFIELD, ILLINOIS 60015
T. 847.648.6100

BRIGHT HORIZONS FAMILY SOLUTIONS
1120 ARLINGTON HTS RD
ARLINGTON HEIGHTS, IL

CIVIL ENGINEER:

Cross Engineering & Associates, Inc.
1955 Raymond Drive, Suite 119
Northbrook, IL 60062
Tel: 847/498-0800

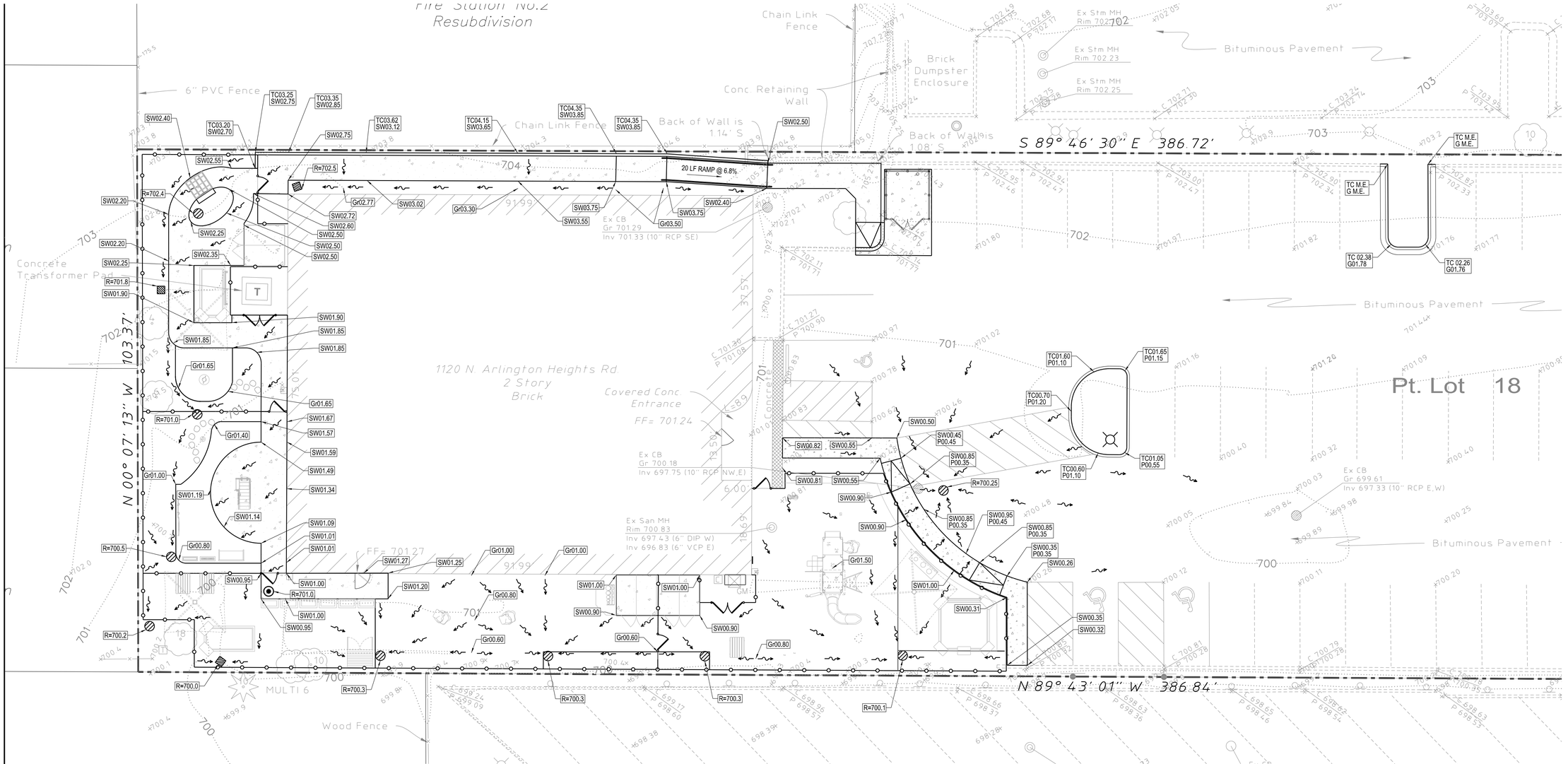
NO.	REVISION DESCRIPTION	DATE
3	Per Vill. Comments	6/12/15
2	For Permit Submittal	6/1/15
1	FOR BIDS	5/29/15

SHEET TITLE:
GEOMETRIC PLAN

SITE IMPROVEMENT PLANS

SHEET NO.
C4

DATE
5/28/15



LEGEND(PROPOSED):

- FLOW ARROW
- TC=48.10 — TOP OF CURB ELEVATION
- G=48.60 — GUTTER ELEVATION
- SW=48.60 — SIDEWALK ELEVATION
- Gr=48.60 — FINISHED GRADE ELEVATION
- CURB AND GUTTER

(* ADD 700 TO GRADES SHOWN AS XX.XX)

NOTES:

1. SEE LANDSCAPE PLANS FOR THE DIMENSIONED PLAN, SURFACE TREATMENT AND DETAILS FOR ALL THE FEATURES WITHIN THE PLAY AREA.
2. SEE LANDSCAPE PLANS FOR SIDEWALK AND FENCE DETAILS.
3. SEE ARCHITECTURAL PLANS FOR STAIRS AND RAILING DETAILS.
4. GRADES AND FLOW ARROWS SHOWN ON THIS DRAWING ARE INTENDED TO ILLUSTRATE THE PROPOSED DRAINAGE PATTERNS FOR THE SUBGRADE AND SURFACE FEATURES.
5. ALL DISTURBED AREAS SHALL BE RESTORED. SEE LANDSCAPE PLANS FOR DETAILS.

0 10 20 30 40 N

SCALE IN FEET

M/A

M/A ARCHITECTS, LLC

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DEERFIELD, ILLINOIS 60015
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NO.	REVISION DESCRIPTION	DATE
3	Per Vill. Comments	6/12/15
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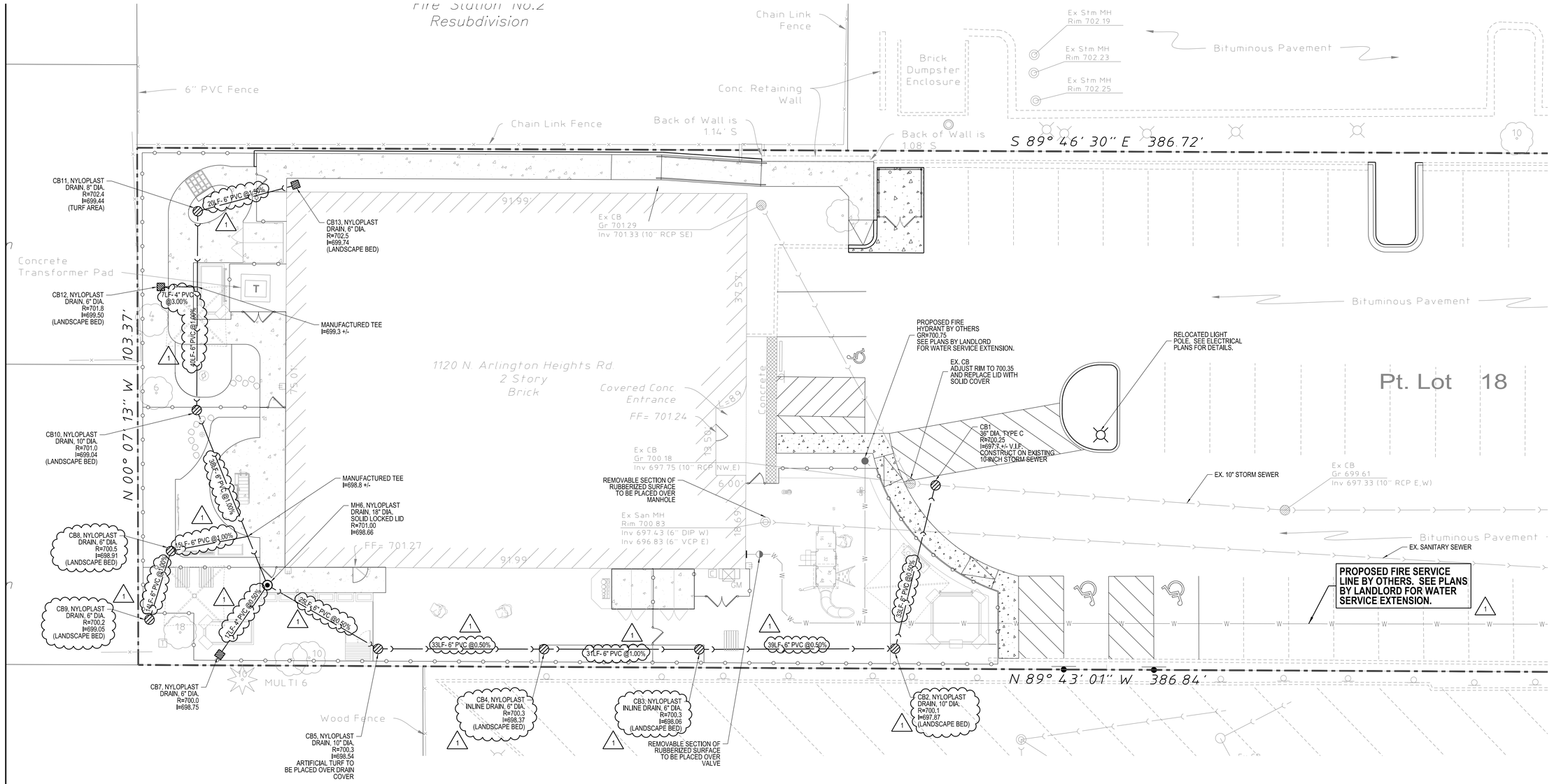
1	FOR BIDS	5/29/15

SHEET TITLE:
GRADING PLAN

SITE IMPROVEMENT PLANS

SHEET NO.:
C5

DATE
5/28/15



LEGEND(PROPOSED):

DRAINAGE BASIN

STORM SEWER

NOTES:

1. SEE LANDSCAPE PLANS FOR THE DIMENSIONED PLAN, SURFACE TREATMENT AND DETAILS FOR ALL THE FEATURES WITHIN THE PLAY AREA.
2. SEE LANDSCAPE PLANS FOR SIDEWALK AND FENCE DETAILS.
3. SEE ARCHITECTURAL PLANS FOR STAIRS AND RAILING DETAILS.
4. ALL STORM SEWERS SHALL BE PVC SDR-26, UNLESS NOTED OTHERWISE. ALL DRAINAGE STRUCTURES, EXCEPT CB1, SHALL BE ADS NYLOPLAST DRAINAGE STRUCTURES, OR INLINE DRAINS AS NOTED. THE STORM SEWER SYSTEM MUST BE WATERTIGHT DUE TO THE SITE BEING TRIBUTARY TO THE COMBINED SEWER SYSTEM. ALTERNATE STANDARD YARD DRAINS WILL NOT BE ACCEPTED UNLESS THE CONTRACTOR SUBMITS CATALOG CUT SHEETS TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO PROCEEDING.
5. ALL DISTURBED AREAS SHALL BE RESTORED. SEE LANDSCAPE PLANS FOR DETAILS.
6. PRIOR TO INSTALLING UNDERDRAIN PIPING, CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF EXISTING DRAIN PIPE TO BE CONNECTED TO. CONTRACTOR SHALL ADJUST GRADES TO PROVIDE POSITIVE GRAVITY FLOW, OR CONTACT ENGINEER FOR DIRECTION.
7. PROPOSED FIRE LINE SHOWN IS TO BE DESIGNED, PERMITTED AND INSTALLED BY OTHERS. LOCATIONS OF FIRE LINE, CONNECTION TO BUILDING AND HYDRANT ARE ESTIMATED AND THE FINAL LOCATION WILL BE DETERMINED BY OTHERS.
8. ALL STORM SEWER TRENCHES UNDER, OR WITHIN 2 FEET OF PAVEMENT OR SIDEWALK, SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL

M/A

M/A ARCHITECTS, LLC

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1120 ARLINGTON HTS RD
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3	Per Vill. Comments	6/12/15
2	For Permit Submittal	6/1/15
1	FOR BIDS	5/29/15

SHEET TITLE:
UTILITY PLAN

SITE IMPROVEMENT PLANS

SHEET NO.
C6

DATE
5/28/15

5/28/15

GENERAL NOTES

1. All construction shall comply with the applicable ordinances and requirements of the Village of Arlington Heights; Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction", latest edition; the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC); and the "Standard Specifications for Water and Sewer Main Construction in Illinois", latest edition. In case of a conflict the more stringent requirement shall govern.
2. The contractor shall field check and verify all existing utility locations, dimensions and elevations in the field prior to the commencement of construction of the improvements or proposed work. All existing utility locations on the plans have been shown based on best available information. Notify the engineer immediately if discrepancies are found.
3. All elevations are based upon NGVD Datum.
4. The contractor shall notify the Village of Arlington Heights two (2) business days prior to the start of construction. Also contact J.U.L.I.E. 1-800-892-0123 at least 48 hours prior to starting work. All other agencies shall also be notified as required. It shall be the responsibility of the contractor to set up the necessary and proper inspection(s) for all work to be performed.
5. The contractor shall restore all disturbed off-site areas to at least a condition that existed prior to construction. Any damage to existing facilities not noted for removal shall be promptly repaired at the Contractor's expense.
6. All existing field drainage tiles encountered or damaged during construction are to be restored to their original condition and connected to the storm sewer system.
7. All independent testing to be paid for by the developer, unless included in the GC contract and previously agreed to by both parties.
8. The contractor shall provide video tape(s) or still pictures to document existing conditions as required by the Village Engineer or Owner prior to beginning work.
9. One set of stamped approved plans shall be on site at all times during construction of the project.
10. All unpaved areas of right-of-way are to be sodded. Restore right-of-way with six (6) inches of topsoil, fertilizer and salt tolerant sod.
11. Storm and sanitary sewer lines and structures shall be cleaned of all construction debris and silt prior to final Village inspection.
12. The contractor shall maintain and keep at the job site, an up to date set of "Record Drawings" showing all changes from the original plans. The location of all service connections for sanitary sewer, storm sewer and water shall be shown from the closest manhole or valve vault. All B-boxes and cleanouts must be shown with tied dimensions. The elevation of all rims and inverts shall be verified by the contractor and shown on the "Record Drawings". The contractor shall deliver the "Record Drawings" to the engineer at the conclusion of the project, prior to any final inspections. The engineer will transfer the information to the original plans and furnish the Village complete "Record Drawings".
13. It shall be the responsibility of the contractor to abide by, adhere to and perform all work in accordance with the requirements, specifications, standards, practices, policies and codes of the Village of Arlington Heights which includes but is not limited to labor, materials, procedures and safety.
14. Any changes, revisions or substitutions to the plans, specifications, materials, requirements or work shall be submitted to the Engineer and Village Engineer, in writing, with written approval by the Village Engineer received prior to beginning said work. All materials and construction whether implicitly or explicitly stated or covered within the requirements, codes or specifications, shall be approved by the Village Engineer, prior to commencing the installation and construction.
15. OSHA rules, regulations and requirements shall be strictly adhered to during the execution of all work to be performed under the approved drawings. The Contractor is solely responsible for Site Safety.
16. The Contractor shall guarantee his work for a period of two years from the date of acceptance and shall be responsible for any defects in material or workmanship during that period.
17. The contractor shall be responsible for the installation and maintenance of IDOT traffic control and protection devices to inform and protect the public in conformance with the IDOT Standard Traffic Control and Protection Specifications.
18. The Contractor is responsible for complying with all requirements of the Illinois Environmental Protection Agency letter of No Further Remediation letter #0314036064 dated November 3, 2010. The Owner will contract directly with an environmental consulting firm to provide a health and safety plan and provide monitoring of the sitework. Cross Engineering & Associates Inc. is not responsible for responding to any adverse environmental conditions discovered at the site. All questions or comments should be directed to the Owner and/or their environmental consultant for directions on how to proceed.

DEMOLITION NOTES

1. The Contractor is responsible for the proper disposal of all waste material in a location approved by all governing authorities. The Contractor is responsible for testing soils and providing certification using form LPC-663 for any spoil disposal.
2. The Contractor is to demolish the existing site improvements such that the proposed improvements shown on the plans can be constructed. All unsuitable material that would conflict with the proper construction of the proposed improvements shall be removed. The Contractor shall notify the engineer of any conflicts prior to executing the work.
3. The contractor shall obtain all required demolition permits from all governing agencies prior to start of site demolition.
4. The contractor is responsible for verifying that all existing utility services are disconnected or protected prior to start of demolition.
5. The contractor shall coordinate with the respective utility companies prior to removal and/or relocation of utilities. The contractor is responsible for paying all fees and charges associated with utility coordination unless prior agreement with the Owner determines otherwise.
6. The utilities shown on the plans have been located based on the best information available and are given for the convenience of the contractor. The engineer assumes no responsibility for their accuracy. Prior to the start of demolition, the contractor shall notify the utility companies for onsite location of existing utilities.
7. All erosion control devices are to be installed prior to the start of demolition activity.
8. Any improvements, structures, pavements, utilities or property, either onsite or offsite, that becomes damaged during site demolition shall be replaced back to its existing condition at the contractor's expense.
9. All pavement, walk and curb removal shall be accomplished by saw cutting prior to removal.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. The erosion control measures included in the Erosion Control Plan shall be installed prior to initial land disturbance activities or as soon as practical. Sediment shall be prevented from discharging from the project site by installing and maintaining silt fence, straw bales, sediment basins, etc. as shown on the plans.
2. The contractor shall provide dust control watering as needed to prevent windblown erosion.
3. Adjacent roadways and site parking areas shall be kept free of mud and accumulated sediment. Streets shall be cleaned using a road sweeper. Mud and sediment shall not be cleared by flushing the area with water.
4. All onsite and adjacent storm drain inlets shall be protected against sedimentation with the use of sediment baskets or filter fabric fencing.
5. All erosion and sediment control shall be installed, inspected, and maintained in accordance with the standards specified in the National Pollutant Discharge Elimination System permit.
6. All temporary and permanent sediment control practices shall be removed and disposed of within 30 days after final site stabilization is achieved or temporary practices are no longer needed.

GRADING NOTES

1. Earth excavation shall include clearing, stripping and stockpiling topsoil, removing unsuitable material, construction of embankments, constructing non-structural fills and final shaping and trimming to the line grades, elevations and cross sections shown in the plans. This work shall be performed in accordance with the IDOT Standard Specifications for Road and Bridge Construction. All unsuitable or excess material shall be disposed of as required.
2. Proof-rolling, discing and dewatering are considered incidental.
3. The proposed grading elevations shown on the plans are finish grade. A minimum of 6" of topsoil is to be placed in areas to receive vegetative cover.
4. The selected fill material within building pad area or pavement areas shall be placed in level uniform layers so that the compacted thickness is approximately 9 inches. Each lift shall be compacted to 95% of the maximum dry density as determined by the "Modified Procter" compaction test (ASTM D-1557). Each layer shall be thoroughly mixed during spreading to ensure uniformity.
5. The selected fill material shall be free of organic matter, frozen solids, clods, or other unsuitable material.

PAVING NOTES

1. Base course shall be aggregate base course, type B (crushed limestone, CA-6), conforming to the standard specifications (see plans for thickness).
2. Surface course and binder course shall be bituminous concrete, Class I Hot Mix Asphalt (see plans for thickness).
3. Curb and gutter, barrier curb and sidewalk shall be Portland Cement concrete IDOT Class SI, with air entrainment of 5% ± 1%. Concrete shall meet IDOT requirements with a minimum compressive strength of 3500 psi @ 14 days. Maximum allowable slump is three (3") inches. Curing compound shall be applied after finishing. Curb backfill shall be incidental to the construction of the curb. Locations of water and sewer service lines shall be clearly marked on all new curbs. Concrete pavement and aprons shall be IDOT Class PV.
4. A 3/4 inch fiber expansion joint shall be installed when the curb abuts a sidewalk or existing curb.
5. Curb and gutter and barrier curb shall have sawed contraction joints at maximum intervals of twenty feet (20') and 3/4 inch fiber expansion joint at maximum intervals of sixty (60') feet.
6. Subgrade shall be finished to ± 0.1 foot of design subgrade elevations by the earthwork contractor. Fine grading for pavements and sidewalks shall be the responsibility of the paving contractor unless Owner contract states otherwise.
7. The base course shall be primed at the rate of 0.25 to 0.50 gallons per square yard with a liquid asphalt conforming to IDOT standards and shall be appropriate for prevailing weather conditions. Prime coat and cleaning of the existing surface shall be considered as incidental to the contract work.
8. Tack coat shall be placed at a rate of 0.15 to 0.20 gallons per square yard with a liquid asphalt conforming to IDOT standards and shall be appropriate for the prevailing weather conditions.
9. Prior to placement of any pavement including curbs, the subgrade shall be proof rolled with a fully loaded tandem axle dump truck (minimum 20 tons). Proof rolling shall be witnessed by the materials consultant and the Village Engineer, if required. Proof rolling shall also be required on the base material. The density of the subgrade base and base material as well as the bituminous material shall also be tested by the materials consultant.
10. All structures such as manholes, valve boxes, etc. shall be adjusted to meet the new surface elevation. Furthermore, structures such as manholes, valve boxes, etc. which are within Portland Cement Concrete slab areas (i.e., driveways, etc.) shall be boxed out by means of a cut out area with full depth joints.
11. Saw cut existing curb at limit of the work and replace with depressed curb as required. Drill and dowel all new curb, including depressed curb, to existing as required.
12. Parking lot striping shall match existing color and thickness. Two coats of commercial quality paint shall be applied, two weeks apart, to provide a longer lasting application.

STORM SEWER NOTES

1. All storm sewer pipe shall be PVC conforming to ASTM 3034, SDR 26; as noted on the plans.
2. All structures shall be pre-cast conforming to ASTM C-478 or ADS Nyloplast drainage structures. (Contact ADS Nyloplast representative Dave Trayser, Tel: 630/973-7468). See detail sheet for structure information.
3. All storm sewers and structures shall be cleaned and inspected after completion of paving.
4. See details and Village codes for additional Storm Sewer Specifications.
5. Trenches under and within a 1:1 slope from the bottom of any paved area or building shall be backfilled with CA -7 or compacted CA-6 granular material. Jetting with water is not permitted.

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ARLINGTON HEIGHTS, IL

CIVIL ENGINEER:

Cross Engineering & Associates, Inc.
1955 Raymond Drive, Suite 119
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Tel: 847/498-0800

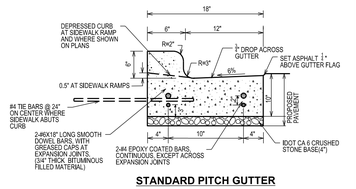
NO.	REVISION DESCRIPTION	DATE

SHEET TITLE:
SPECIFICATIONS

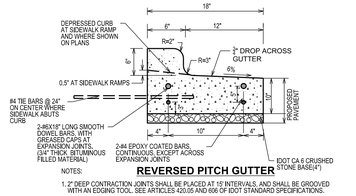
SITE IMPROVEMENT PLANS

SHEET NO.
C7

DATE
5/28/15



STANDARD PITCH GUTTER

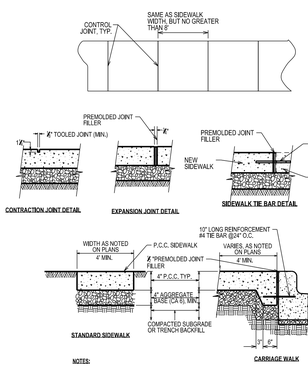


REVERSED PITCH GUTTER

NOTES:

1. 2" DEEP CONTRACTION JOINTS SHALL BE PLACED AT 15' INTERVALS, AND SHALL BE GROOVED WITH AN EDGING TOOL. SEE ARTICLES 420.05 AND 606 OF IDOT STANDARD SPECIFICATIONS.
2. EXPANSION JOINTS SHALL BE PLACED AT 150' (MAX) INTERVALS, AT ALL P.C.'S AND P.T.'S, CURB RETURNS, AND AT THE END OF EACH POUR.
3. P.C.C. SHALL CONSIST OF IDOT CLASS SI(6.1 BAG) CONCRETE MIX, WITH 5% TO 8% AIR ENTRAINMENT, AND A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 14 DAYS.
4. PROVIDE 2 #6X24" LONG TIE BARS AT CONNECTIONS BETWEEN EXISTING AND NEW CURB & GUTTER.

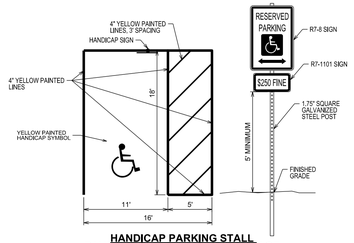
B-6.12 CURB & GUTTER DETAIL (MODIFIED)
NOT TO SCALE



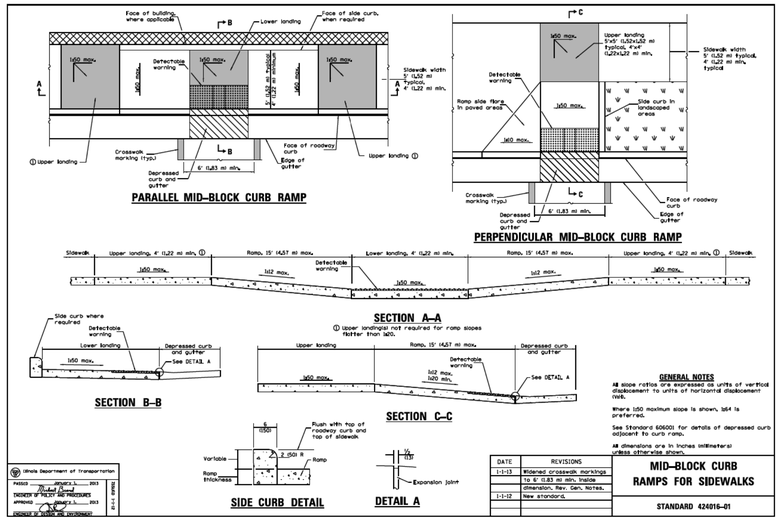
NOTES:

1. UNLESS OTHERWISE NOTED ON PLANS, CONTRACTION JOINTS TO BE AT 5'-0" O.C.
2. EXPANSION JOINTS TO BE 5'0" O.C. MAX. OR AT BACK OF CURB, CHANGE OF DIRECTION, OTHER WALK UTILITY APPURTENANCE, OR FACE OF STRUCTURE.
3. PORTLAND CEMENT CONCRETE SHALL CONFORM TO IDOT CLASS SI, MIN. 3,500 PSI (6.1 BAG MIX) AT 14 DAYS, WITH 5% TO 8% AIR ENTRAINMENT. (NO FLY ASH ALLOWED)
4. SIDEWALK SHALL HAVE A MAXIMUM 2" PER FOOT CROSS-SLOPE.
5. USE 2 #4 REINFORCING BARS, 10' LONG OVER ALL UTILITY TRENCHES FOR NEW SIDEWALK.
6. NEW SIDEWALK SHALL MATCH ADJACENT SIDEWALK FINISH OR AS DIRECTED BY OWNER OR MUNICIPALITY.
7. SIDEWALK ACROSS DRIVEWAYS SHALL BE A MINIMUM THICKNESS OF 6" OR SHALL MATCH DRIVEWAY APRON THICKNESS, WHICHEVER IS THICKER.

SIDEWALK DETAIL
NOT TO SCALE



HANDICAP PARKING STALL PAVEMENT MARKINGS AND SIGNAGE
NOT TO SCALE



GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (rise, run).

Where 1:50 maximum slope is shown, 1:54 is preferred.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

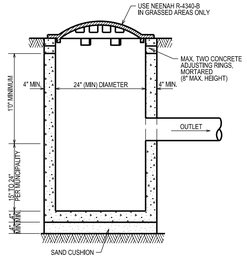
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2013
Michael Bolton
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
Omer L. Osenbaugh
SECRETARY OF TRANSPORTATION

DATE	REVISIONS
1-1-13	Widened crosswalk markings
	to 6' (1.83 m) min. inside
	dimension, Rev. Gen. Notes.
1-1-12	New standard.

MID-BLOCK CURB RAMPS FOR SIDEWALKS

STANDARD 424016-01

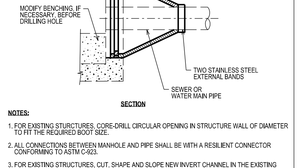


NOTES:

1. CATCH BASIN TO BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE.
2. CATCH BASIN MUST CONFORM TO ASTM C-478.
3. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.*
4. MAXIMUM DEPTH FROM INVERT OF OUTLET PIPE TO TOP OF FRAME SHALL NOT EXCEED 42 INCHES. IF DESIGN OR CONSTRUCTION REQUIRES DEPTH BEYOND 42 INCHES, STRUCTURE SHALL BE REVISED TO A 48 INCH DIAMETER CATCH BASIN.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL.

TYPE C CATCH BASIN DETAIL
NOT TO SCALE



SECTION

NOTES:

1. FOR EXISTING STURCTURES, CORE-DRILL CIRCULAR OPENING IN STRUCTURE WALL OF DIAMETER TO FIT THE REQUIRED BOOT SIZE.
2. ALL CONNECTIONS BETWEEN MANHOLE AND PIPE SHALL BE WITH A RESILIENT CONNECTOR CONFORMING TO ASTM C-923.
3. FOR EXISTING STRUCTURES, CUT, SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM NEW CONNECTION.
4. CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT, CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.

PIPE CONNECTION TO STRUCTURE DETAIL
NOT TO SCALE

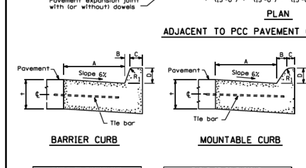


TABLE OF DIMENSIONS BARRIER CURB					
TYPE	A	B	C	D	R_1
B-15.30 (M-2.06)	300 (12)	25 (1)	150 (6)	150 (6)	25 (1)
B-15.45 (M-6.18)	450 (18)	25 (1)	150 (6)	150 (6)	25 (1)
B-15.60 (M-6.24)	600 (24)	25 (1)	150 (6)	150 (6)	25 (1)
B-22.30 (M-4.06)	300 (12)	50 (2)	125 (5)	225 (9)	25 (1)
B-22.45 (M-6.18)	450 (18)	50 (2)	125 (5)	225 (9)	25 (1)
B-22.60 (M-6.24)	600 (24)	50 (2)	125 (5)	225 (9)	25 (1)

TABLE OF DIMENSIONS MOUNTABLE CURB						
TYPE	A	B	C	D	R_1	R_2
M-5.15 (M-2.06)	150 (6)	50 (2)	100 (4)	50 (2)	75 (3)	50 (2)
M-5.30 (M-2.12)	300 (12)	50 (2)	100 (4)	50 (2)	75 (3)	50 (2)
M-10.15 (M-4.06)	150 (6)	100 (4)	75 (3)	100 (4)	75 (3)	NA
M-10.30 (M-4.12)	300 (12)	100 (4)	75 (3)	100 (4)	75 (3)	NA
M-10.45 (M-4.18)	450 (18)	100 (4)	75 (3)	100 (4)	75 (3)	NA
M-10.60 (M-4.24)	600 (24)	100 (4)	75 (3)	100 (4)	75 (3)	NA
M-15.15 (M-6.06)	150 (6)	150 (6)	50 (2)	150 (6)	50 (2)	NA
M-15.30 (M-6.12)	300 (12)	150 (6)	50 (2)	150 (6)	50 (2)	NA
M-15.45 (M-6.18)	450 (18)	150 (6)	50 (2)	150 (6)	50 (2)	NA
M-15.60 (M-6.24)	600 (24)	150 (6)	50 (2)	150 (6)	50 (2)	NA

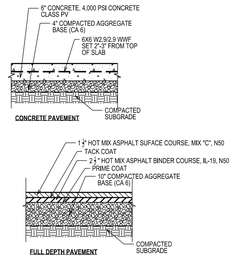
M-5.15 (M-2.06) and M-5.30 (M-2.12)

Illinois Department of Transportation
PASSED January 1, 1998
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 1998
SECRETARY OF TRANSPORTATION

DATE	REVISIONS
1-1-98	Rev. slope on M-5 (M-2)
	curbs, Del. "Hinge joint"
	from plan view.
1-1-97	Renum. Standard 2130-16.

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
(Sheet 1 of 2)

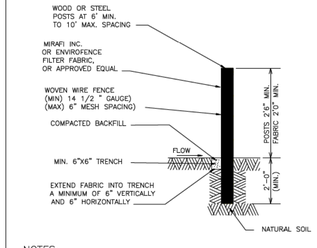
STANDARD 606001-01



NOTES:

1. TACK COAT MUST BE PROVIDED, EVEN IN AREAS WHERE SURFACE COURSE WILL BE INSTALLED THE SAME DAY AS THE BINDER COURSE.
2. PRIME COAT IS TO BE APPLIED AT THE IDOT RECOMMENDED RATE.
3. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL PAVING RECOMMENDATIONS.

PARKING LOT PAVEMENT SECTION DETAIL
NOT TO SCALE



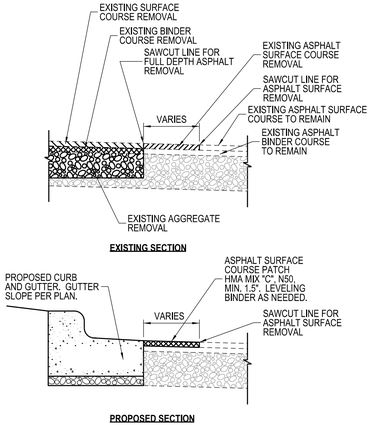
NOTES:

1. FILTER BARRIERS SHALL BE PLACED AT THOSE LOCATIONS SHOWN ON THE PLANS.
2. ATTACH FABRIC TO WIRE MESH WITH HOG RINGS, TO WOOD POSTS WITH NAILS, AND TO STEEL POSTS WITH TIE-WIRES AT TOP AND MID-SECTION.
3. OVERLAP FILTER FABRIC BY 6" AND FOLD WHERE 2 SECTIONS ADJOIN.
4. STRAW BALES MAY BE SUBSTITUTED FOR THE FILTER FABRIC, IF APPROVED BY THE VILLAGE ENGINEERING DIVISION
5. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2 ". REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SEDIMENT TRAPPED BY THE FENCE SHALL BE REMOVED AND PROMPTLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
7. BARRIERS SHALL BE MAINTAINED IN PLACE UNTIL COMPLETION OF CONSTRUCTION AND THE UPSLOPE AREA HAS BEEN STABILIZED, AND BE REMOVED ONLY WHEN DIRECTED BY THE VILLAGE.

NOT TO SCALE

SILT FENCE DETAIL

REVISED 11-04-04



PAVEMENT PATCH DETAIL
NOT TO SCALE

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DEERFIELD, ILLINOIS 60015
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BRIGHT HORIZONS FAMILY SOLUTIONS
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ARLINGTON HEIGHTS, IL

CIVIL ENGINEER:

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Tel: 847/498-0800

NO.	REVISION DESCRIPTION	DATE

SHEET TITLE:
DETAILS

SITE IMPROVEMENT PLANS

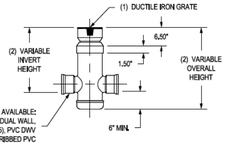
SHEET NO.
C8

DATE
5/28/15

2808AG__X

8" CUSTOM DRAIN BASIN

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
STANDARD	LIGHT DUTY	0899CGS	7001-110-194
SOLID COVER	LIGHT DUTY	0899CGC	7001-110-195
BRONZE	N/A	0899CGB	7001-110-196
DOME	N/A	0899CGD	7001-110-197
DROP IN GRATE	LIGHT DUTY	0801GI	7001-110-019

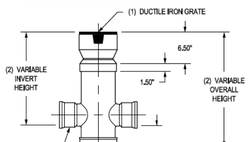


(3,4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 8" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

2810AG__X

10" CUSTOM DRAIN BASIN

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
STANDARD	LIGHT DUTY	1099CGS	7001-110-198
SOLID COVER	LIGHT DUTY	1099CGC	7001-110-199
BRONZE	N/A	1099CGB	7001-110-200
DOME	N/A	1099CGD	7001-110-201
DROP IN GRATE	LIGHT DUTY	1001GI	7001-110-020



(3,4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 10" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

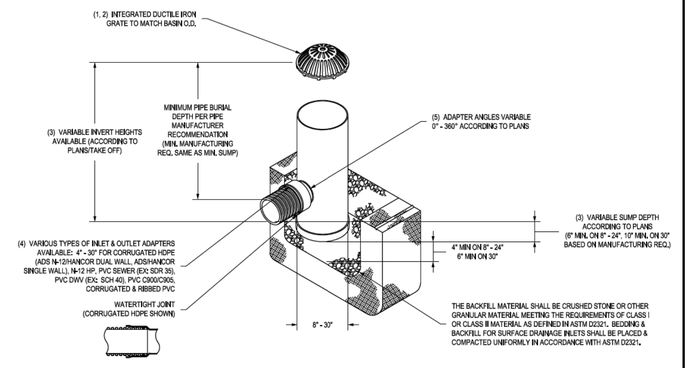
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
4 - STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
5 - DIMENSIONS ARE FOR REFERENCE ONLY ACTUAL DIMENSIONS MAY VARY

DRAWN BY	AWA
DATE	8-11-09
REVISED BY	EBC
DATE	3-16-10
DWG SIZE	A
MATERIAL	
PROJECT NO./NAME	
SCALE	NTS
SHEET	1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 8 IN & 10 IN DRAIN BASIN DESIGN DETAILS
DWG NO. 7001-110-045 REV G

NYLOPLAST DRAIN BASIN WITH DOME GRATE



1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

DRAWN BY	EBC
DATE	03-25-10
REVISED BY	CCA
DATE	09-05-13
DWG SIZE	A
MATERIAL	
PROJECT NO./NAME	
SCALE	1:40
SHEET	1 OF 1

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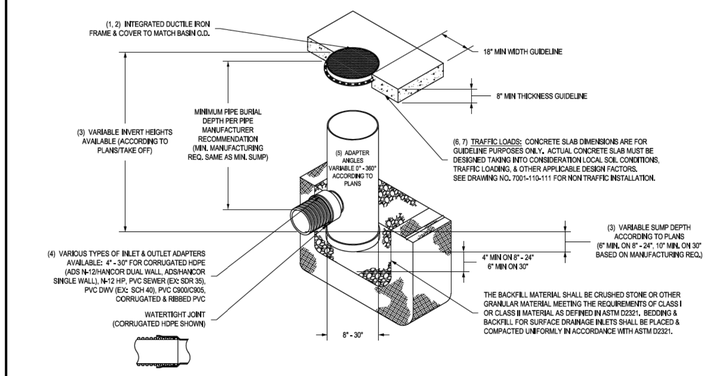
TITLE: DRAIN BASIN WITH DOME GRATE QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-287 REV C

NYLOPLAST DRAIN BASIN WITH SOLID COVER



1 - 8" - 30" SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" SOLID COVERS FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 12" - 30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

DRAWN BY	EBC
DATE	09-14-07
REVISED BY	CCA
DATE	09-04-13
DWG SIZE	A
MATERIAL	
PROJECT NO./NAME	
SCALE	1:40
SHEET	1 OF 1

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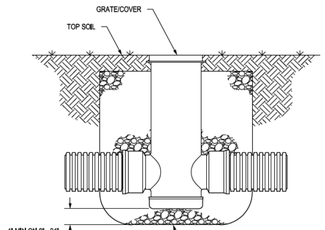
TITLE: DRAIN BASIN WITH SOLID COVER QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-288 REV C

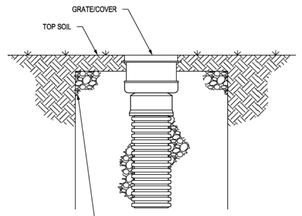
NON TRAFFIC INSTALLATION

DRAIN BASIN



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I OR CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE WELL PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

INLINE DRAIN



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I OR CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE WELL PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

DRAWN BY	CJA
DATE	9-30-09
REVISED BY	CCA
DATE	12-29-11
DWG SIZE	A
MATERIAL	
PROJECT NO./NAME	
SCALE	1:25
SHEET	1 OF 1

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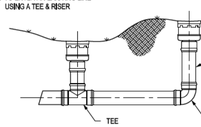
TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION
DWG NO. 7001-110-111 REV D

WHEN ARE INLINE DRAINS USED?

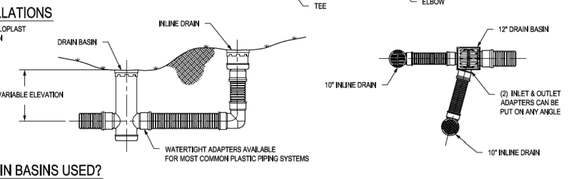
2708AG__X
2710AG__X
2712AG__X
2715AG__X
2718AG__X
2724AG__X
2730AG__X

1: TO ENTER AN EXISTING LINE USING A TEE & RISER
2: AT THE BEGINNING OF A DRAIN LINE USING AN ELBOW & RISER



TYPICAL INSTALLATIONS

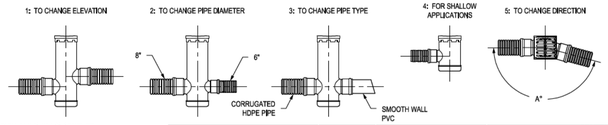
TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN



WHEN ARE DRAIN BASINS USED?

2808AG__X
2810AG__X
2812AG__X
2815AG__X
2818AG__X
2824AG__X
2830AG__X

1: TO CHANGE ELEVATION
2: TO CHANGE PIPE DIAMETER
3: TO CHANGE PIPE TYPE
4: FOR SHALLOW APPLICATIONS
5: TO CHANGE DIRECTION



1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 30"
2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065

DRAWN BY	AWA
DATE	8-10-09
REVISED BY	EBC
DATE	1-6-10
DWG SIZE	A
MATERIAL	
PROJECT NO./NAME	
SCALE	1:40
SHEET	1 OF 1

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TITLE: 8 IN - 30 IN TYPICAL INSTALLATION OPTIONS
DWG NO. 7001-110-042 REV D

Section 2721

Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

DRAWN BY	CJA
DATE	3-10-09
REVISED BY	JJC
DATE	4-25-13
DWG SIZE	A
MATERIAL	
PROJECT NO./NAME	
SCALE	1:1
SHEET	1 OF 1

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3130 VERONA AVE
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TITLE: 8 IN - 30 IN DRAIN BASIN SPECIFICATIONS
DWG NO. 7001-110-011 REV G

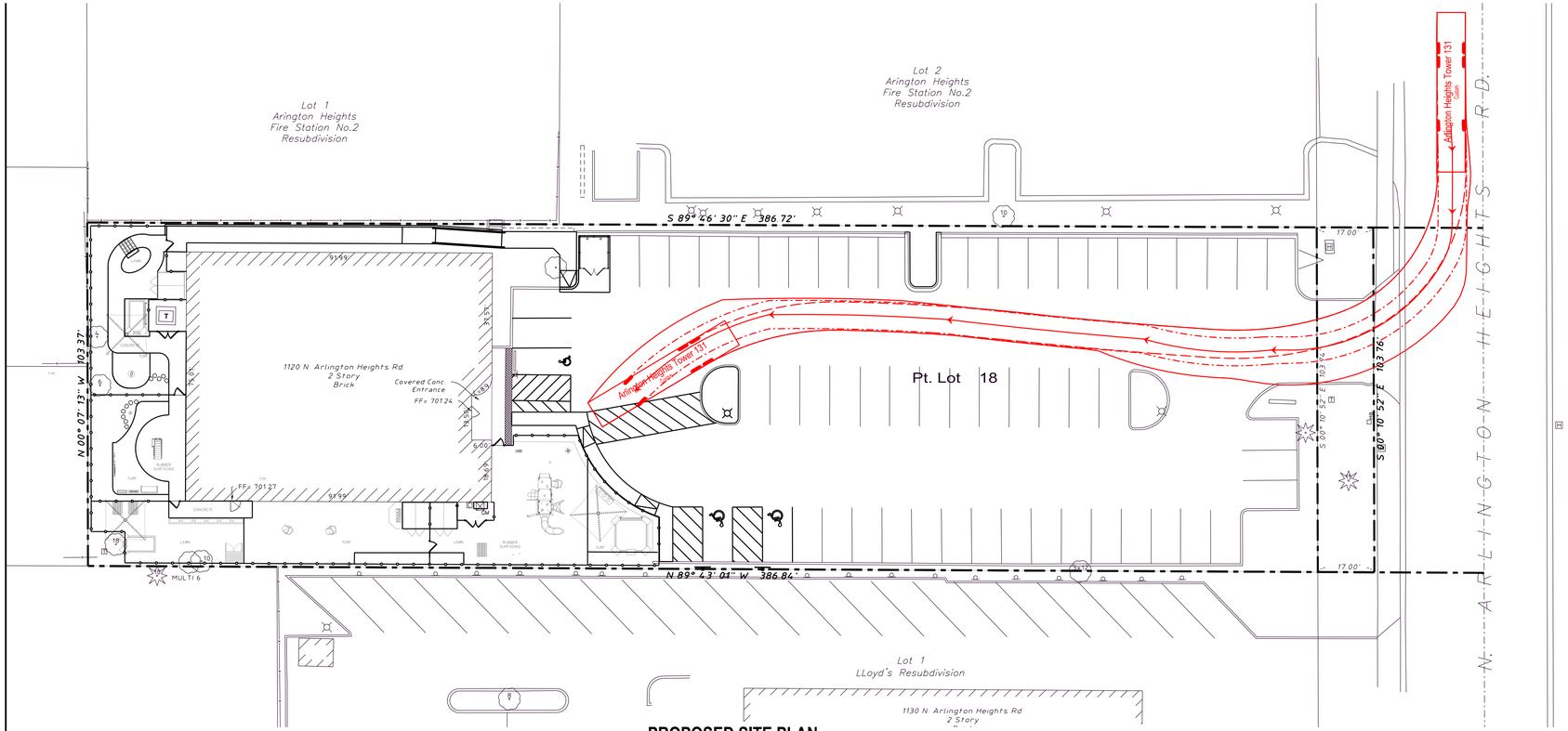
M/A ARCHITECTS, LLC
655 DEERFIELD RD STE 100-103
DEERFIELD, ILLINOIS 60015
T. 847.648.6100

BRIGHT HORIZONS FAMILY SOLUTIONS
1120 ARLINGTON HTS RD
ARLINGTON HEIGHTS, IL

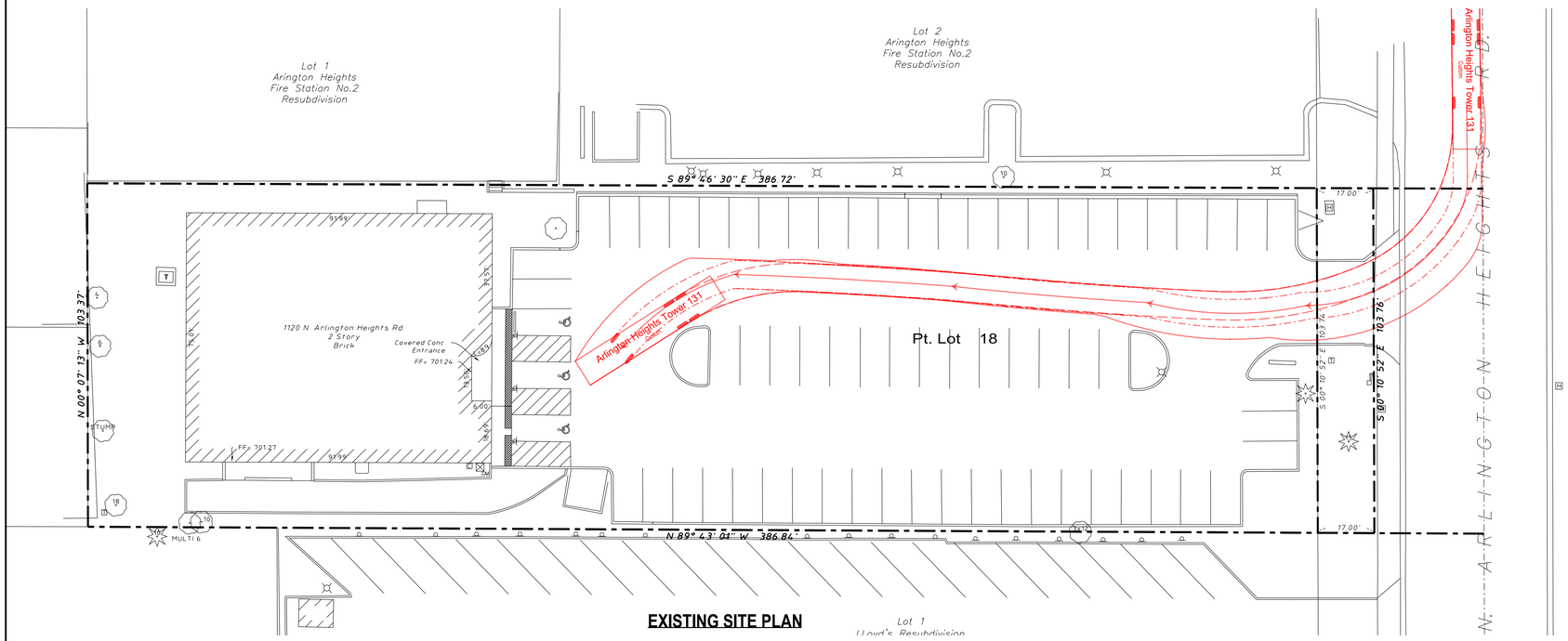
CIVIL ENGINEER:
Cross Engineering & Associates, Inc.
1955 Raymond Drive, Suite 119
Northbrook, IL 60062
Tel: 847/498-0800

NO.	REVISION DESCRIPTION	DATE

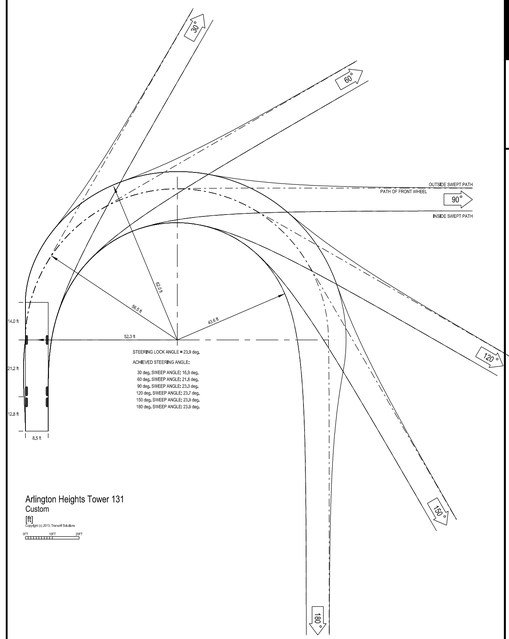
SHEET TITLE: DETAILS 2
SITE IMPROVEMENT PLANS
SHEET NO.: C9
DATE: 5/28/15



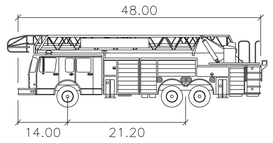
PROPOSED SITE PLAN



EXISTING SITE PLAN



Arlington Heights Tower 131
Custom



Arlington Heights Tower 131

Width	:	8.50
Track	:	8.50
Lock to Lock Time	:	6.0
Steering Angle	:	23.9

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DEERFIELD, ILLINOIS 60015
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BRIGHT HORIZONS
FAMILY SOLUTIONS
1120 ARLINGTON HTS RD
ARLINGTON HEIGHTS, IL

CIVIL ENGINEER:

Cross Engineering & Associates, Inc.
1955 Raymond Drive, Suite 119
Northbrook, IL 60062
Tel: 847/498-0800

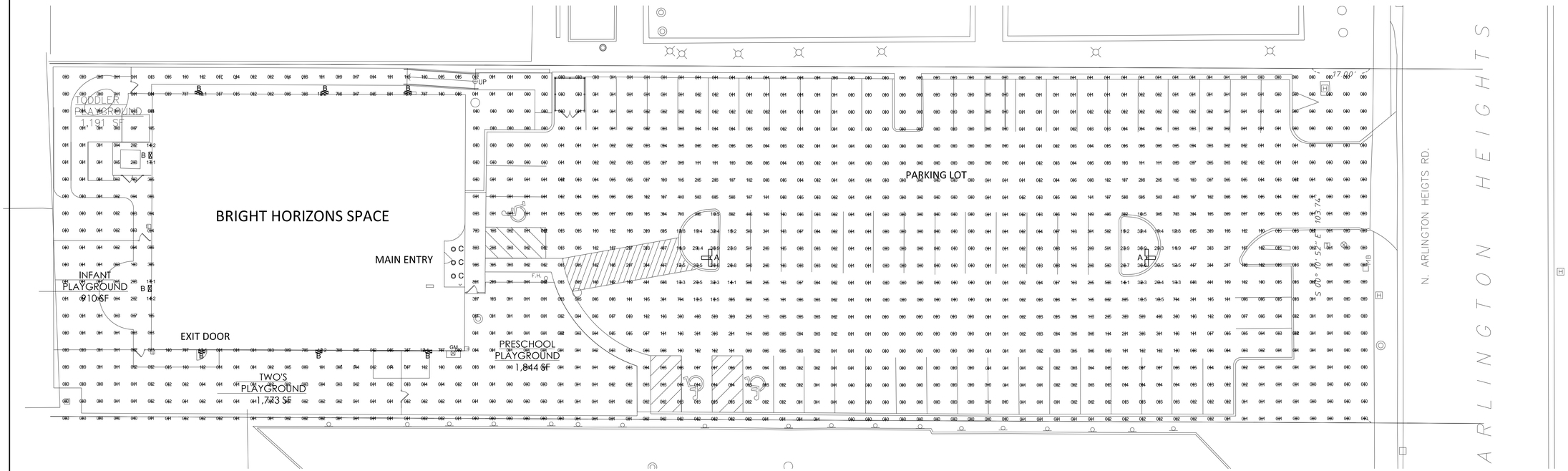
NO.	REVISION DESCRIPTION	DATE

SHEET TITLE:
AREA EXHIBIT

SITE IMPROVEMENT PLANS

SHEET NO.
1

DATE
5/28/15



1 SITE PLAN
SCALE: 1" =10'

PHOTOMETRIC PLAN

Luminaire Schedule						
Project: All Projects						
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description
	2	A–EXISTING POLE LIGHT	TRIPLE	21000	264.5	Existing, triple pole top luminaire 250W ESB–EC MH
	8	B–NEW WALL MOUNTED	SINGLE	3200	46	Wall mounted, shelided,180 distribution_42W P
	3	C–EXISTING ENTRY DOWNLIGHT	SINGLE	8200	112	Existing downlight, 360 distribution_100W A

Numeric Summary							
Project: All Projects							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Ground_Planar	Illuminance	Fc	3.3	36.9	0.0	0.00	0.00

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ARLINGTON HEIGHTS, IL

NO.	REVISION DESCRIPTION	DATE
	CONST. DOCS	5/26/15

SHEET TITLE:
SITE LIGHTING LEVELS

SHEET NO.
SL

DATE
20 FEB 2015