

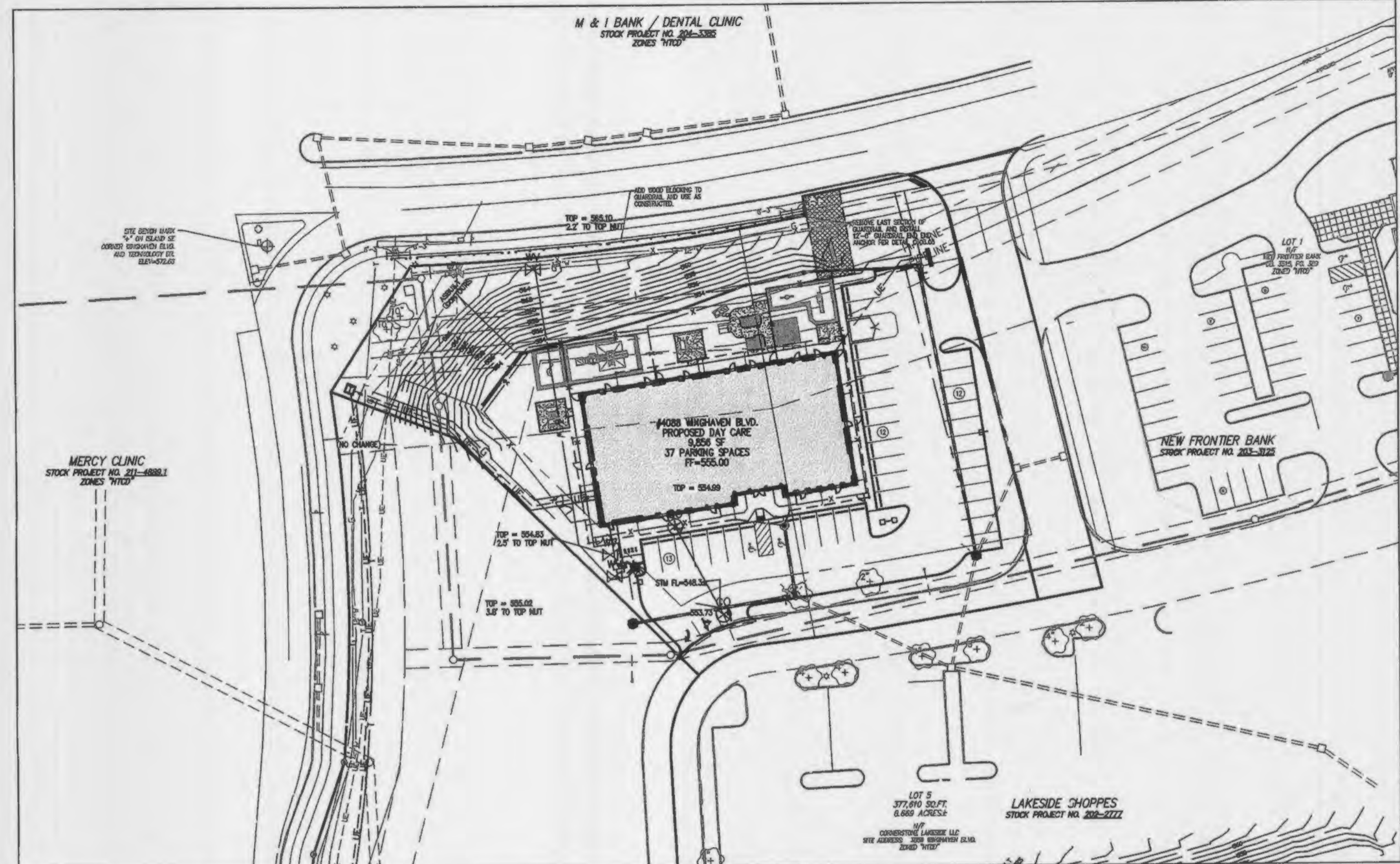
# A SET OF CONSTRUCTION PLANS FOR AS-BUILT KIDDIE ACADEMY

A TRACT OF LAND BEING LOTS 2, 3, 4 AND 5 OF LAKESIDE SHOPPES AS RECORDED IN PLAT BOOK 40, PAGE 45 AND LOCATED IN PART OF FRACTIONAL SECTION 13 AND PART OF U.S. SURVEY 1669, TOWNSHIP 46 NORTH, RANGE 2 EAST OF THE 5TH PRINCIPAL MERIDIAN CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI

### TOTAL TRACT DESCRIPTION

A tract of land being all of Lots 2, 3 and 5 of the Lakeside Shoppes, a subdivision as recorded in Plat Book 40, Page 45 of the St. Charles County Recorder's Office, being part of Fractional Section 13 and U.S. Survey 1669 in Township 45 North, Range 2 East of the Fifth Principal Meridian, City of O'Fallon, St. Charles County, Missouri and being more particularly described as follows:

BEGINNING at the Northeast Corner of Lot 2 of Lakeside Shoppes, a subdivision as recorded in Plat Book 40, Page 45 of the St. Charles County Recorder's Office, said corner also being the Northwest corner of Lot 1 of said Lakeside Shoppes; thence along the Western and Southern lines of said Lot 1 along a curve to the left the radius of which bears South 44 degrees 45 minutes 35 seconds East, 29.50 feet, an arc length of 30.40 feet to a point; thence South 13 degrees 48 minutes 37 seconds East, a distance of 171.93 feet to a point of curvature; thence along a curve to the left having a radius of 29.50 feet, an arc length of 45.27 feet to a point of compound curvature; thence along a curve to the left having a radius of 1738.33 feet, an arc length of 311.33 feet to a point of compound curvature; thence along a curve to the left having a radius of 29.50 feet, an arc length of 42.72 feet to the Southeast corner of said Lot 1, said corner also being the Northeast corner of Lot 5 of said Lakeside Shoppes; thence along the Eastern line of said Lot 5 in a Southerly direction along a curve to the left, the radius of which bears North 72 degrees 51 minutes 04 seconds East, 215.74 feet, and an arc length of 25.91 feet to a point; thence South 26 degrees 45 minutes 26 seconds East, a distance of 547.98 feet to the Southeast corner of said Lot 5; thence along the Southern line of said Lot 5 the following: South 82 degrees 55 minutes 20 seconds West, a distance of 579.11 feet to a point; thence North 62 degrees 54 minutes 33 seconds West, a distance of 88.99 feet to a point; thence South 89 degrees 56 minutes 28 seconds West, a distance of 112.33 feet to a point; thence South 71 degrees 27 minutes 07 seconds West, a distance of 264.44 feet to a point; thence North 18 degrees 32 minutes 53 seconds West, a distance of 30.75 feet to a point; thence North 69 degrees 32 minutes 46 minutes 44 seconds East, a distance of 60.30 feet to a point on the Eastern line of Technology Drive; thence along said Eastern line the following: North 18 degrees 45 minutes 43 seconds East, a distance of 2.91 feet to a point; thence North 12 degrees 46 minutes 44 seconds East, a distance of 154.27 feet to a point; thence along a curve to the left the radius of which bears North 75 degrees 13 minutes 59 seconds West, 1015.18 feet, and an arc length of 68.85 feet to the Southwest corner of Lot 4 of the aforesaid Lakeside Shoppes; thence along the Southern, Eastern and Northeastern lines of said Lot 4 the following: North 87 degrees 00 minutes 00 seconds East, a distance of 210.46 feet to a point; thence North 03 degrees 00 minutes 00 seconds West, a distance of 114.54 feet to a point; thence along a curve to the right having a radius of 55.00 feet, an arc length of 45.45 feet, to a point; thence North 45 degrees 38 minutes 56 seconds West, a distance of 184.51 feet to a point; thence North 69 degrees 16 minutes 08 seconds West, a distance of 70.85 feet to a point on the Eastern line of the aforesaid Technology Drive; thence along said Eastern line North 32 degrees 56 minutes 08 seconds East, a distance of 80.54 feet to a point on the Southern line of Wingshaver Boulevard; thence along said Southern line along a curve to the left, the radius of which bears North 01 degree 55 minutes 54 seconds West, a distance of 10.51 feet to a point; thence along a curve to the left the radius of which bears North 09 degrees 48 minutes 46 minutes 54 seconds West 1495.89 feet, and an arc length of 119.51 feet to the Point of Beginning and containing 448,236 square feet or 10.290 acres more or less.



PLAN VIEW



LOCATION MAP

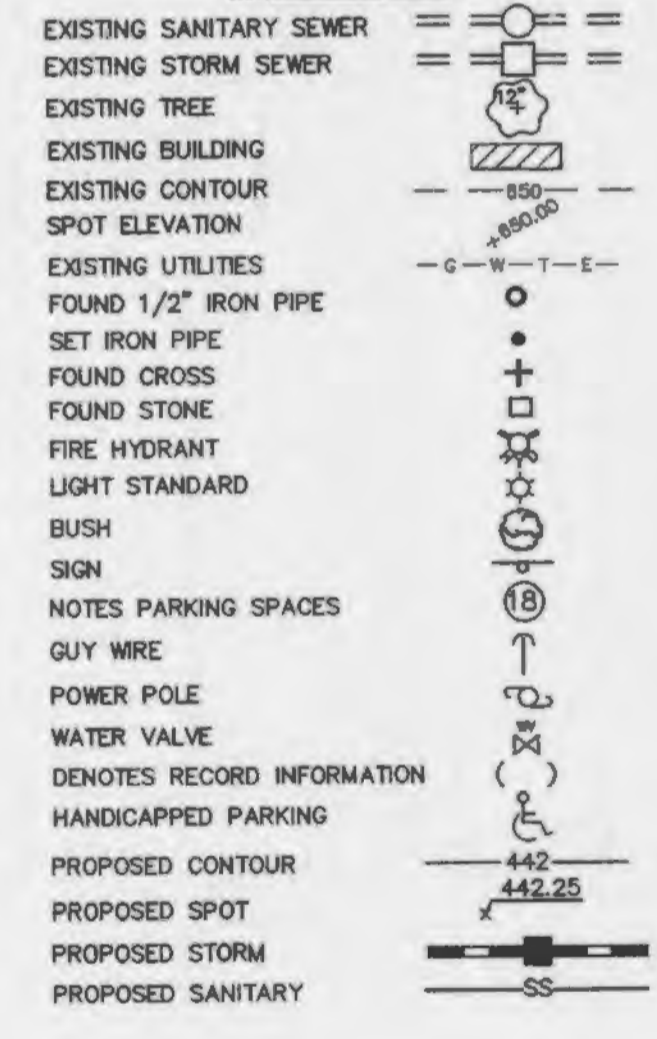
\* CITY OF O'FALLON CONSTRUCTION WORK HOURS PER CITY ORDINANCE 3429 AS SHOWN IN SECTION 500.420 OF THE MUNICIPAL CODE OF THE CITY OF O'FALLON ARE AS FOLLOWS:

OCTOBER 1 THROUGH MAY 31  
7:00 A.M. TO 7:00 P.M. MONDAY THROUGH SUNDAY  
JUNE 1 THROUGH SEPTEMBER 30  
6:00 A.M. TO 8:00 P.M. MONDAY THROUGH FRIDAY  
7:00 A.M. TO 8:00 P.M. SATURDAY AND SUNDAY

### PERTINENT DATA

ZONING = "HTCD" - HIGH TECH CORRIDOR DISTRICT  
SITE ACREAGE = LOT 2 = 0.810 ACRES±, LOT 3 = 0.811 ACRES±, LOT 5 = 8.869 ACRES±, ADJUSTED LOT 2 = 1.426 ACRES±, ADJUSTED LOT 5 = 8.864 ACRES±  
OWNER = CORNERSTONE LAKESIDE LLC, 10580 OLD OLIVE STREET RD, SUITE 500, ST. LOUIS, MO 63141  
DEVELOPER = CHESTERFIELD CHILD CARE PROPERTIES, LLC, 23 BOPP LANE, ST. LOUIS, MO 63131  
SITE ADDRESS = 4088 WINGHAVEN BLVD., O'FALLON, MO 63368  
BUILDING HEIGHT = 33'  
PARCEL ID = 4-0047-9324-00-0002, 4-0047-9324-00-0003  
PARKING REQUIREMENTS:  
DAY CARE/PRE-SCHOOL:  
REQUIRED:  
1 SPACE/6 PUPILS + 1 SPACE/EMPLOYEE (BASED UPON THE MAXIMUM NUMBER OF PUPILS FOR WHICH THE FACILITY IS LICENSED BY THE STATE OF MISSOURI)  
150 PUPILS x 1 SPACE/6 PUPILS = 25 SPACES  
12 EMPLOYEES x 1 SPACE/EMPLOYEE = 12 SPACES  
TOTAL REQUIRED = 37 SPACES  
PROVIDED:  
STANDARD SPACES (9'x19') = 37 SPACES  
ACCESSIBLE SPACES  
REQUIRED: TOTAL SPACES 26-30 = 2 SPACES  
PROVIDED: = 2 SPACES  
LOADING REQUIREMENTS:  
BUILDINGS WITH 5,000 SF - 25,000 SF OF GFA:  
1 - 12'x35' LOADING SPACE REQUIRED  
1 - 12'x35' LOADING SPACE PROVIDED  
SITE COVERAGE CALCULATIONS  
BUILDING = 9,856 SF (15.9%)  
PAVEMENT = 26,115 SF (42.0%)  
GREENSPACE = 26,149 SF (42.1%)  
TOTAL = 62,120 SF (100.0%)  
SETBACK REQUIREMENTS:  
NORTH: 50' BUILDING SETBACK (DB, 2012, PG. 162)  
EAST: 30' SIDE YARD - CORNER LOT ("HTCD")  
SOUTH: 30' SIDE YARD - CORNER LOT ("HTCD")  
WEST: 20' SIDE YARD ("HTCD")  
AREA OF LAND DISTURBANCE = 1.4± ACRES  
ESTIMATED SANITARY FLOW IN GPD = T.B.D.  
TREE PRESERVATION CALCULATIONS:  
1 TREE TO BE REMOVED  
21 TREES PROPOSED

### LEGEND



### ABBREVIATIONS

ATG - ADJUST TO GRADE  
B.C. - BACK OF CURB  
C.O. - CLEANOUT  
DB. - DEED BOOK  
E. - ELECTRIC  
ELEV. - ELEVATION  
EX. - EXISTING  
F.C. - FACE OF CURB  
FL. - FLOWLINE  
FT. - FEET  
FND. - FOUND  
G. - GAS  
H.W. - HIGH WATER  
LFB. - LOW FLOW BLOCKED  
M.H. - MANHOLE  
N/F. - NOW OR FORMERLY  
PB. - PLAT BOOK  
PG. - PAGE  
PR. - PROPOSED  
P.V.C. - POLYVINYL CHLORIDE PIPE  
R.C.P. - REINFORCED CONCRETE PIPE  
R/W. - RIGHT-OF-WAY  
SQ. - SQUARE  
T. - TELEPHONE CABLE  
T.B.A. - TO BE ABANDONED  
T.B.R. - TO BE REMOVED  
T.B.R.&R. - TO BE REMOVED & REPLACED  
TYP. - TYPICALLY  
U.I.P. - USE IN PLACE  
U.O.N. - UNLESS OTHERWISE NOTED  
V.C.P. - VITRIFIED CLAY PIPE  
W. - WATER  
(86'W) - RIGHT-OF-WAY WIDTH

### DRAWING INDEX

C1.0 TITLE SHEET  
C4.0 OVERALL UTILITY AND PAVING PLAN  
~~C5.0 SPOT GRADING AND SEWER PLAN~~  
C6.0 SEWER PROFILES  
C6.1 SEWER DETAILS AND HYDRAULICS

## AS-BUILT

SANITARY AND STORM SEWER MEASUREMENTS

The existing sewer lengths, sizes, flowlines, depths of structures and sewers and locations with respect to existing or proposed easements have been measured. The results of those measurements are shown on this set of Final Measurement plans. Since the site locations have been plotted from information provided by the sewer contractor or other sources, I disclaim any responsibility for that specific information.

*Randall S. Rossin* 6-10-14  
Randall S. Rossin, P.L.S. No. 2006-000171 Date



MISSOURI ONE-CALL  
1-800-344-7483

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER BY EXCAVATION OR BY OTHER MEANS. THE UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY APPEARING ON THESE PLANS. THE CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE OWNER AND CONTRACTOR. STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

### CONDITIONS OF APPROVAL FROM PLANNING AND DEVELOPMENT

APPROVAL IS CONDITIONAL UPON THE FOLLOWING STAFF RECOMMENDATIONS BEING MET:

- PER ORDINANCE 4768, A CHILDCARE CENTER CANNOT BE CLOSER THAN 500 FEET TO THE EDGE OF THE PIPELINE EASEMENT. THE APPROVAL OF THE CONSTRUCTION PLANS WILL BE CONTINGENT UPON THE REMOVAL OF THE PIPELINE ANTHE VACATION OF THE PIPELINE EASEMENT.
- THE CONSTRUCTION SITE PLANS SHALL ADDRESS THE MUNICIPAL CODE REQUIREMENTS LISTED.

APPROVAL IS ALSO CONDITIONAL UPON THE FOLLOWING MUNICIPAL CODE REQUIREMENTS BEING PROVIDED IN CONJUNCTION WITH THE CONSTRUCTION SITE PLANS

- A PASSIVE TRASH ENCLOSURE SHALL BE CONSTRUCTED ON THE SITE. A DETAIL OF THE PASSIVE TRASH ENCLOSURE SHALL BE PROVIDED. THE ENCLOSURE SHALL CONSIST OF A SIX-FOOT HIGH SOLID WALL WITH A SIGHT PROOF VINYL GATE CONSISTENT WITH THE ARCHITECTURAL THEME OF THE PRIMARY STRUCTURE ON SITE.
- LANDSCAPING SHALL BE PROVIDED AROUND THE PROPOSED TRANSFORMER SHOWN IN THE SOUTHWEST CORNER OF THE LOT. THE PLANS SHALL STATE THE MATURE HEIGHT OF THE PROPOSED VEGETATION.
- POST CONSTRUCTION BMP'S FOR STORMWATER CLEANSING SHALL BE PROVIDED WITH THE CONSTRUCTION PLANS.
- A BOUNDARY ADJUSTMENT PLAT COMBINING LOTS 2 & 3 SHALL BE SUBMITTED PRIOR TO APPROVAL OF THE CONSTRUCTION PLANS.
- CONCEPTUAL APPROVAL FROM PWS# #2 AND DUCKETT CREEK SEWER DISTRICT AND WENTZVILLE FIRE DISTRICT SHALL BE PROVIDED.
- DOCUMENTATION SHALL BE PROVIDED SHOWING THAT THE PERMANENT SLOPE EASEMENT HAS BEEN VACATED.
- THE CITY HAS CREATED CONSTRUCTION PLAN SHEETS WHICH FORMAT SHALL BE USED WHEN SUBMITTING CONSTRUCTION PLANS FOR REVIEW. THE SHEETS CAN BE FOUND AT [http://www.o'fallon.mo.us/dept\\_PW\\_engineering.htm](http://www.o'fallon.mo.us/dept_PW_engineering.htm).

### UTILITY/AGENCY CONTACTS

CITY	WATER	ELECTRIC	GAS	CABLE	FIRE	PHONE/FIBER	PHONE/FIBER	PHONE/FIBER	SANITARY
CITY OF O'FALLON 100 NORTH MAIN STREET O'FALLON, MO 63366 UTILITY LOCATES PH: (636) 281-2858 TRAFFIC LOCATES PH: (636) 379-5062 ENGINEERING DIVISION PH: (636) 379-5556 CONSTRUCTION INSPECTION DIVISION PH: (636) 379-5596	PUBLIC WATER SUPPLY DISTRICT #2 100 WATER DRIVE O'FALLON, MO 63368 CONTACT: ROB FISCHER, P.E. PH: (636) 561-3737 x136 rfischer@allconsewer.com	AMEREN UE 200 CALLAHAN ROAD WENTZVILLE, MO 63385 CONTACT: DANIEL GIESSMANN PH: (636) 639-6310 dgiesmann@ameren.com	LALEDE GAS COMPANY 1999 TRADE CENTER DRIVE EAST ST. PETERS, MO 63376 CONTACT: MARK DEMULING PH: (314) 542-0650 mrdemul@lacledegas.com	CHARTER COMMUNICATIONS 941 CHARTER COMMONS TOWN & COUNTRY, MO 63017 CONTACT: SARA BISHOP PH: (636) 387-6633 EMAIL	WENTZVILLE FIRE PROTECTION 209 WEST PEARCE BLVD. WENTZVILLE, MO 63385 CONTACT: JOE HETKAMP, FIRE MARSHAL PH: (636) 327-6239	AT&T MISSOURI RIGHT OF WAY 13075 MANCHESTER ROAD, SUITE 3-G-01 DES PERES, MO 63131 CONTACT: CRAIG ROMPH PH: (314) 957-3891 cr101@att.com	CENTURYLINK 1151 CENTURY LINK DRIVE WENTZVILLE, MO 63385 CONTACT: DAN KRUSE PH: (636) 332-7030 daniel.kruse@centurylink.com	LIGHTTORE 1111 DORSETT ROAD MARYLAND HEIGHTS, MO 63043 CONTACT: KIRK THOELKE PH: (636) 887-4752 kirk.thoelke@lighttores.net	DUCKETT CREEK SANITARY DISTRICT 3550 HIGHWAY K O'FALLON, MO 63368-8384 CONTACT: ENGINEERING DEPARTMENT PH: (636) 441-1244

### CITY OF O'FALLON NOTES

- CITY APPROVAL OF ANY CONSTRUCTION SITE PLANS DOES NOT MEAN THAT ANY BUILDING CAN BE CONSTRUCTED ON THE LOTS WITHOUT MEETING THE BUILDING SETBACKS AS REQUIRED BY THE ZONING CODES.
- ALL INSTALLATIONS AND CONSTRUCTION CONSTRUCTION SHALL CONFORM TO THE APPROVED ENGINEERING DRAWINGS. HOWEVER, IF THE DEVELOPER CHOOSES TO MAKE MINOR MODIFICATIONS IN DESIGN AND/OR SPECIFICATIONS DURING CONSTRUCTION, THEY SHALL MAKE SUCH CHANGES AT THEIR OWN RISK, WITHOUT ANY ASSURANCE THAT THE CITY ENGINEER WILL APPROVE THE COMPLETED INSTALLATION OR CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO NOTIFY THE CITY ENGINEER OF ANY CHANGES FROM THE APPROVED DRAWINGS. THE DEVELOPER MAY BE REQUIRED TO CORRECT THE INSTALLED IMPROVEMENT SO AS TO CONFORM TO THE APPROVED ENGINEERING DRAWINGS. THE DEVELOPER MAY REQUEST A LETTER FROM THE CONSTRUCTION INSPECTION DIVISION REGARDING ANY FIELD CHANGES APPROVED BY THE CITY INSPECTOR.
- LIGHTING VALUES WILL BE REVIEWED ON SITE PRIOR TO THE FINAL OCCUPANCY INSPECTION.

CITY OF O'FALLON  
COMMUNITY DEVELOPMENT DEPARTMENT  
ACCEPTED FOR CONSTRUCTION  
BY: \_\_\_\_\_ DATE \_\_\_\_\_  
PROFESSIONAL ENGINEER'S SEAL  
INDICATES RESPONSIBILITY FOR DESIGN

**Kiddie Academy**  
LOTS 2 & 3 OF LAKESIDE SHOPPES  
# 4088 WINGHAVEN BLVD.  
CITY OF O'FALLON  
STATE OF MISSOURI

**Stock & Associates**  
Consulting Engineers, Inc.  
257 Chesterfield Business Parkway  
St. Louis, MO 63005 PH: (636) 590-9100 FAX (636) 530-9100  
e-mail: general@stockassoc.com  
Web: www.stockassoc.com

GEORGE M. STOCK E-25116  
CIVIL ENGINEER  
CERTIFICATE OF AUTHORITY  
NUMBER: 000996

**Developer / Owner (Under Contract)**  
Chesterfield Childcare Properties, LLC  
23 Bopp Lane  
St. Louis, MO 63131  
**Facility Operator**  
Concord Properties, LLC  
23 Bopp Lane  
St. Louis, MO 63131

TITLE SHEET

DATE	BY	REVISIONS
01/15/13	A.C.D.	212-5043.2
02/05/13		CITY WATER REVISIONS
03/12/13		CITY REVISIONS
03/26/13		CITY REQUIRED SETS
05/29/13		PROPERTY LINE AND SIGN ESMT.
08/28/13		FINAL PLAYGROUND LAYOUT

P+Z No. 9831.4104  
(APPROVED JANUARY 4, 2013)  
City No.

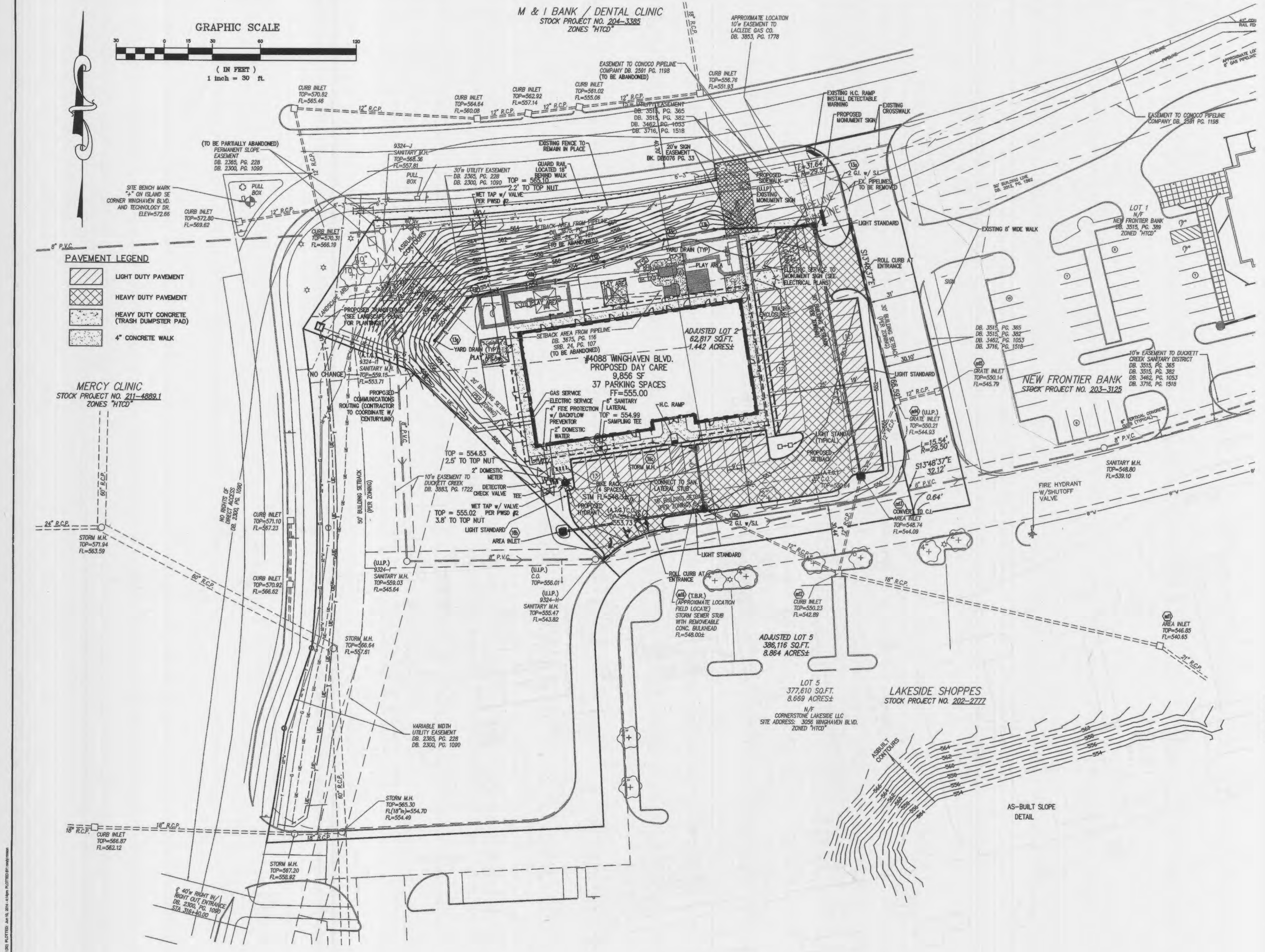
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DATE	01/15/13	JOB NO.	212-5043
REVISIONS:			
1	02/05/13	CITY/WATER REVISIONS	
2	03/12/13	CITY REVISIONS	
3	03/26/13	CITY REQUIRED SETS	
4	05/29/13	PROPERTY LINE AND SIGN ESMT.	
5	08/28/13	FINAL PLAYGROUND LAYOUT	

P+Z No. 9831.4104  
 (APPROVED JANUARY 4, 2013)  
 City No.

Page No.  
**C4.0**



**AS-BUILT**  
 SANITARY AND STORM SEWER MEASUREMENTS

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*Randall S. Rosson* 6-10-14  
 Randall S. Rosson, P.L.S. NO. 2006-000171 Date



DRAWN BY: A.C.D. CHECKED BY: G.M.S. DATE: 01/15/13 JOB NO.: 212-5043  
 1 02/05/13 - CITY/WATER REVISIONS  
 2 03/12/13 - CITY REVISIONS  
 3 03/26/13 - CITY REQUIRED SETS  
 4 05/29/13 - PROPERTY LINE AND SIGN ESMT.  
 5 08/28/13 - FINAL PLAYGROUND LAYOUT  
 P+Z No. 9831.4104 (APPROVED JANUARY 4, 2013) City No.  
 Page No. C4.0





**STOCK & ASSOCIATES**  
**Consulting Engineers, Inc.**  
 257 Chesterfield Business Parkway  
 St. Louis, MO 63005 PH: (636) 530-9100  
 e-mail: general@stockinc.com  
 Web: www.stockinc.com

GEORGE M. STOCK E-25116  
 CIVIL ENGINEER  
 CERTIFICATE OF AUTHORITY  
 NUMBER: 000996

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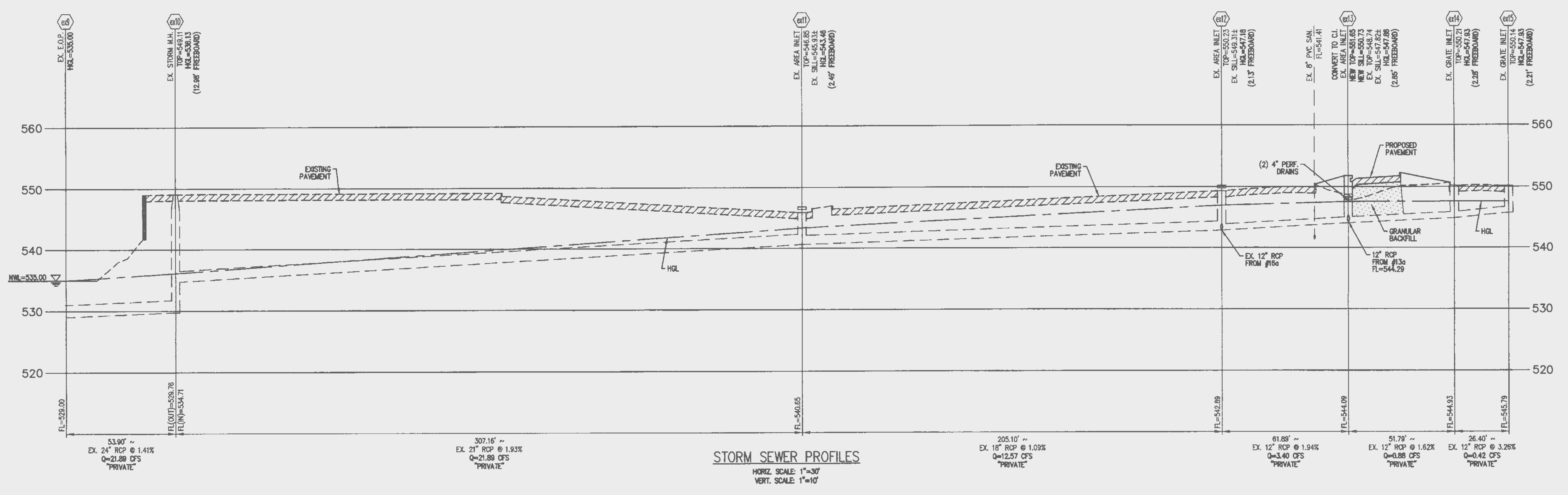
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- REVISIONS:
- |   |          |                                |
|---|----------|--------------------------------|
| 1 | 02/05/13 | - CITY/WATER REVISIONS         |
| 2 | 03/12/13 | - CITY REVISIONS               |
| 3 | 03/28/13 | - CITY REQUIRED SETS           |
| 4 | 05/29/13 | - PROPERTY LINE AND SIGN ES&T. |
| 5 | 08/28/13 | - FINAL PLAYGROUND LAYOUT      |

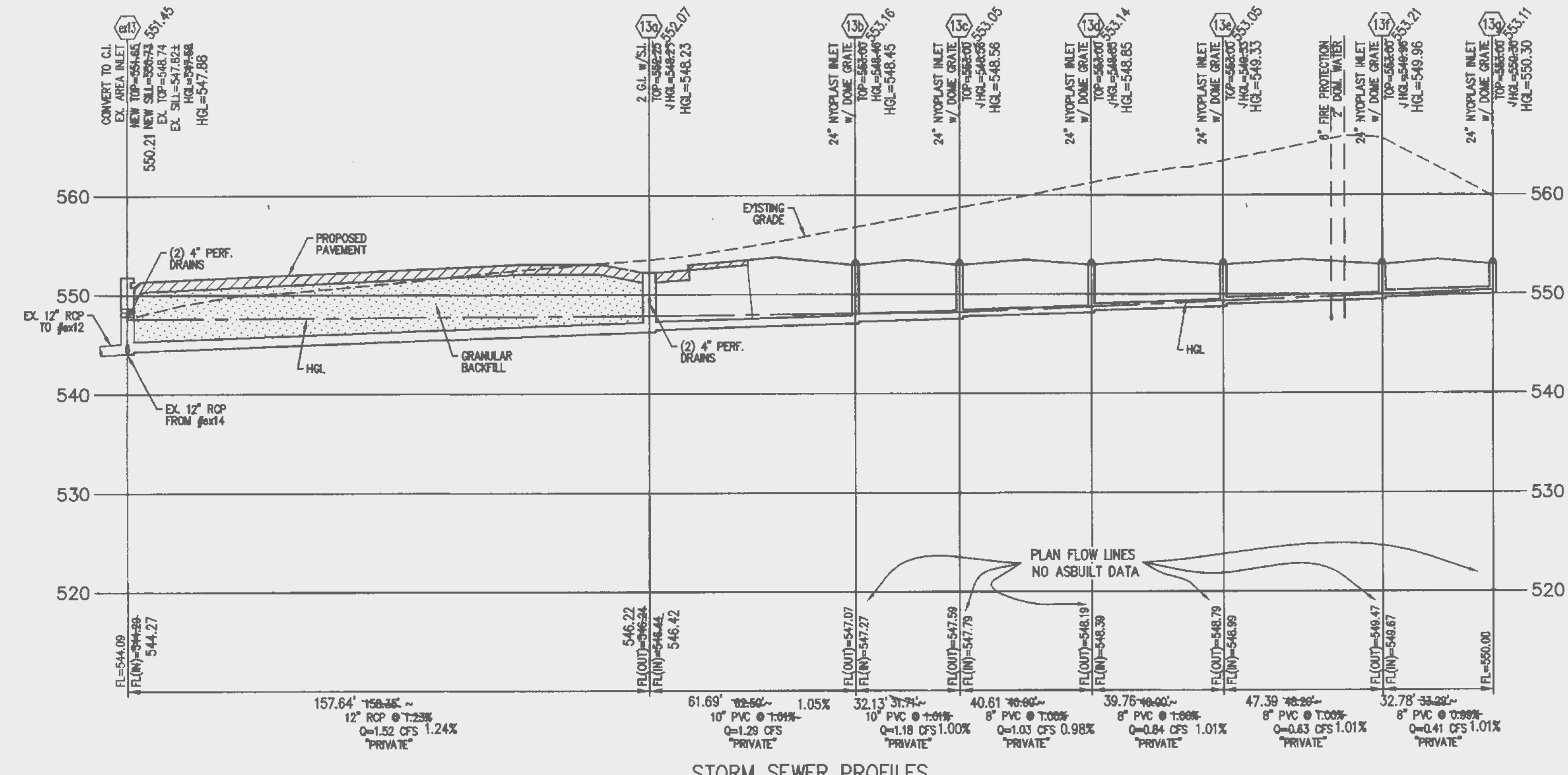
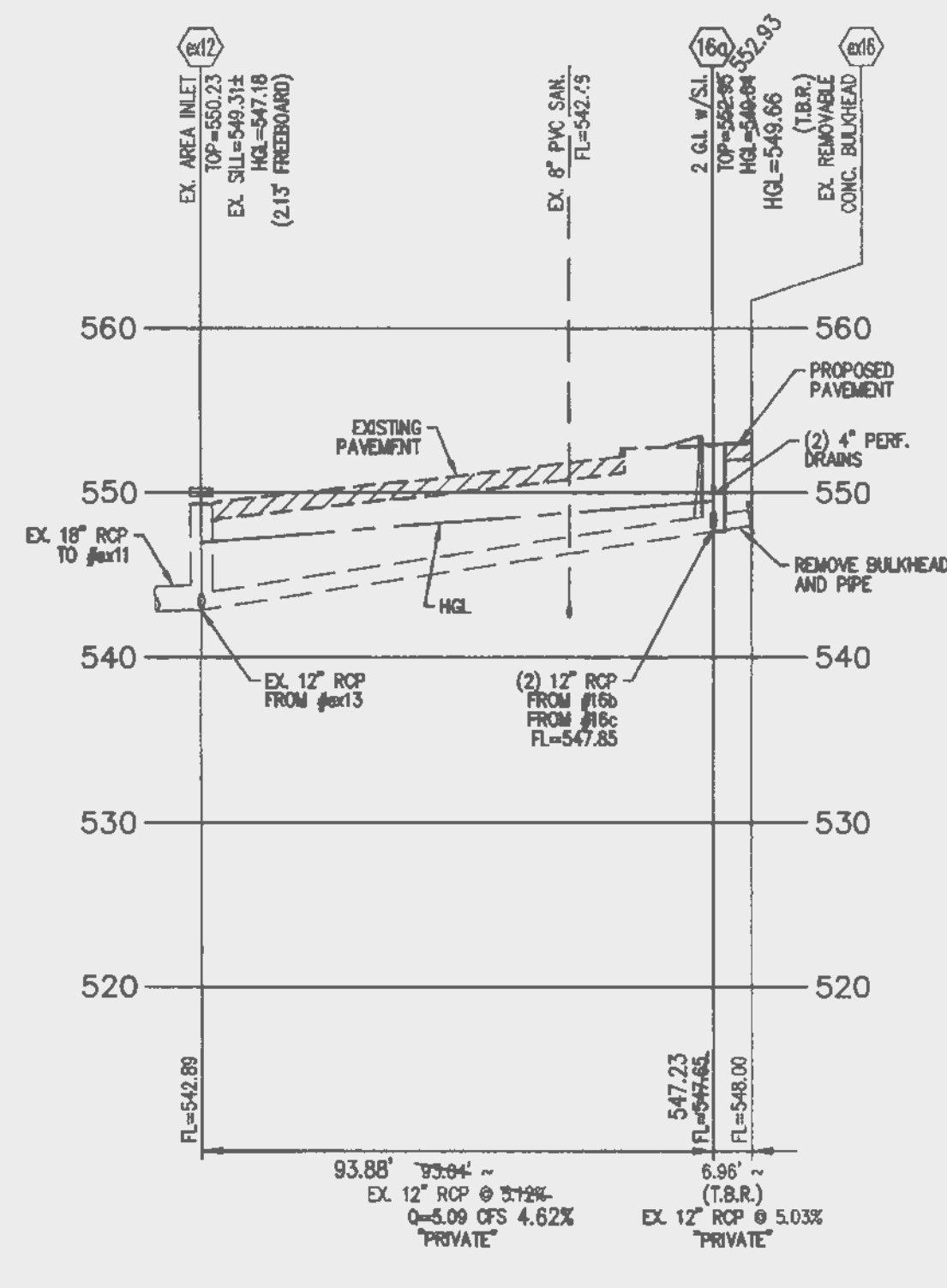
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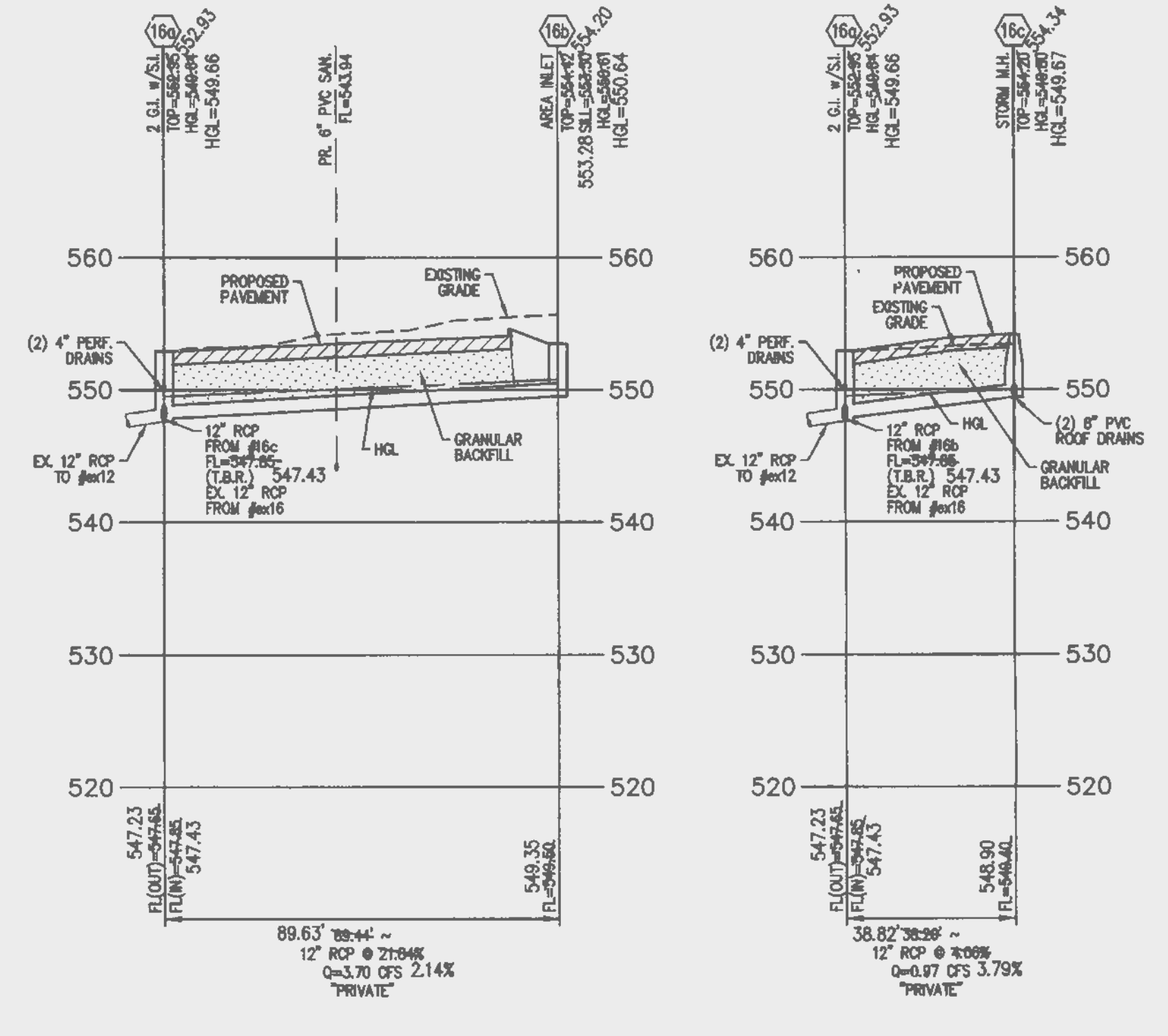
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**STORM SEWER PROFILES**  
 HORIZ. SCALE: 1"=30'  
 VERT. SCALE: 1"=10'



**STORM SEWER PROFILES**  
 HORIZ. SCALE: 1"=30'  
 VERT. SCALE: 1"=10'



**AS-BUILT**  
 SANITARY AND STORM SEWER MEASUREMENTS

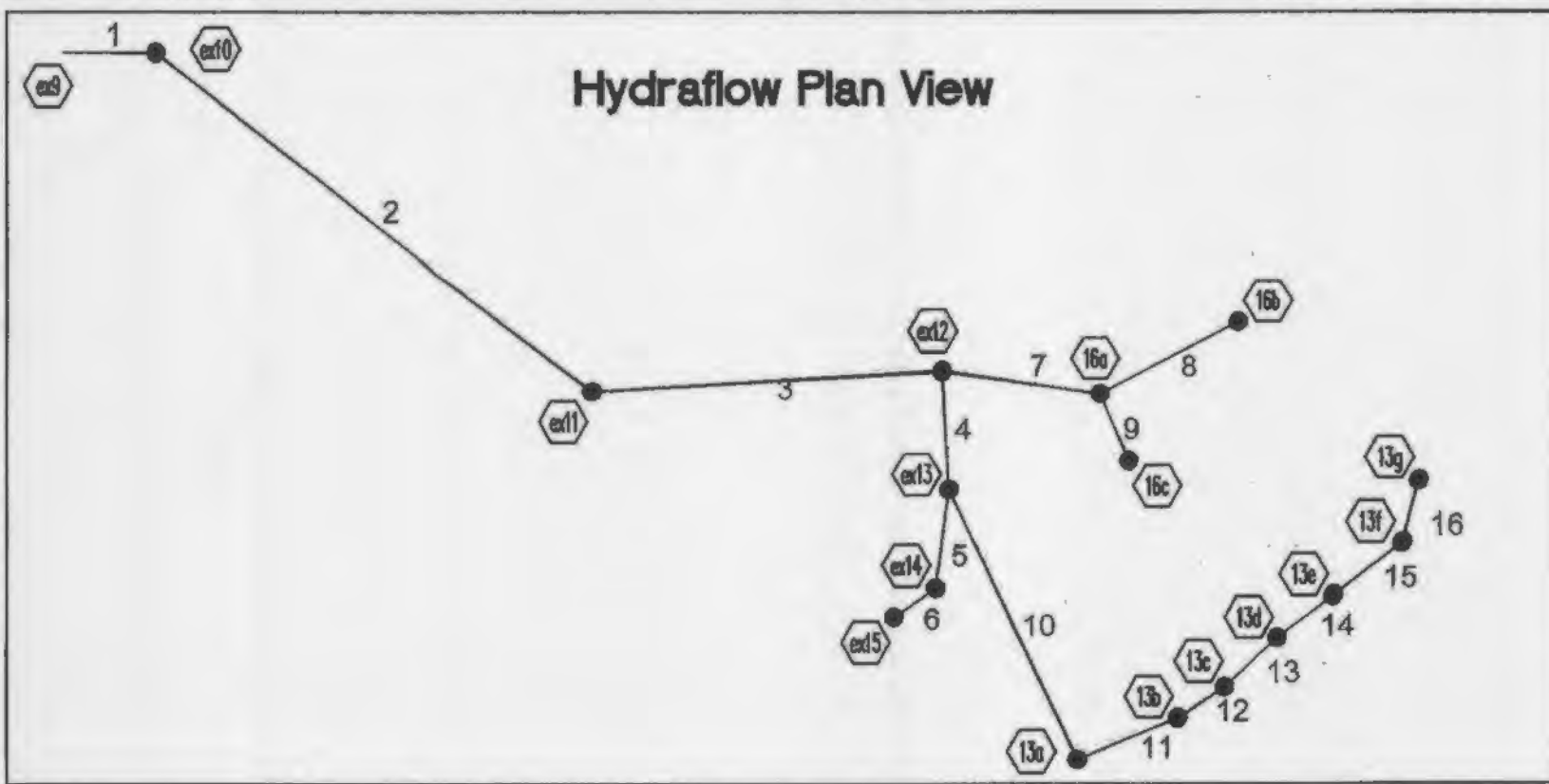
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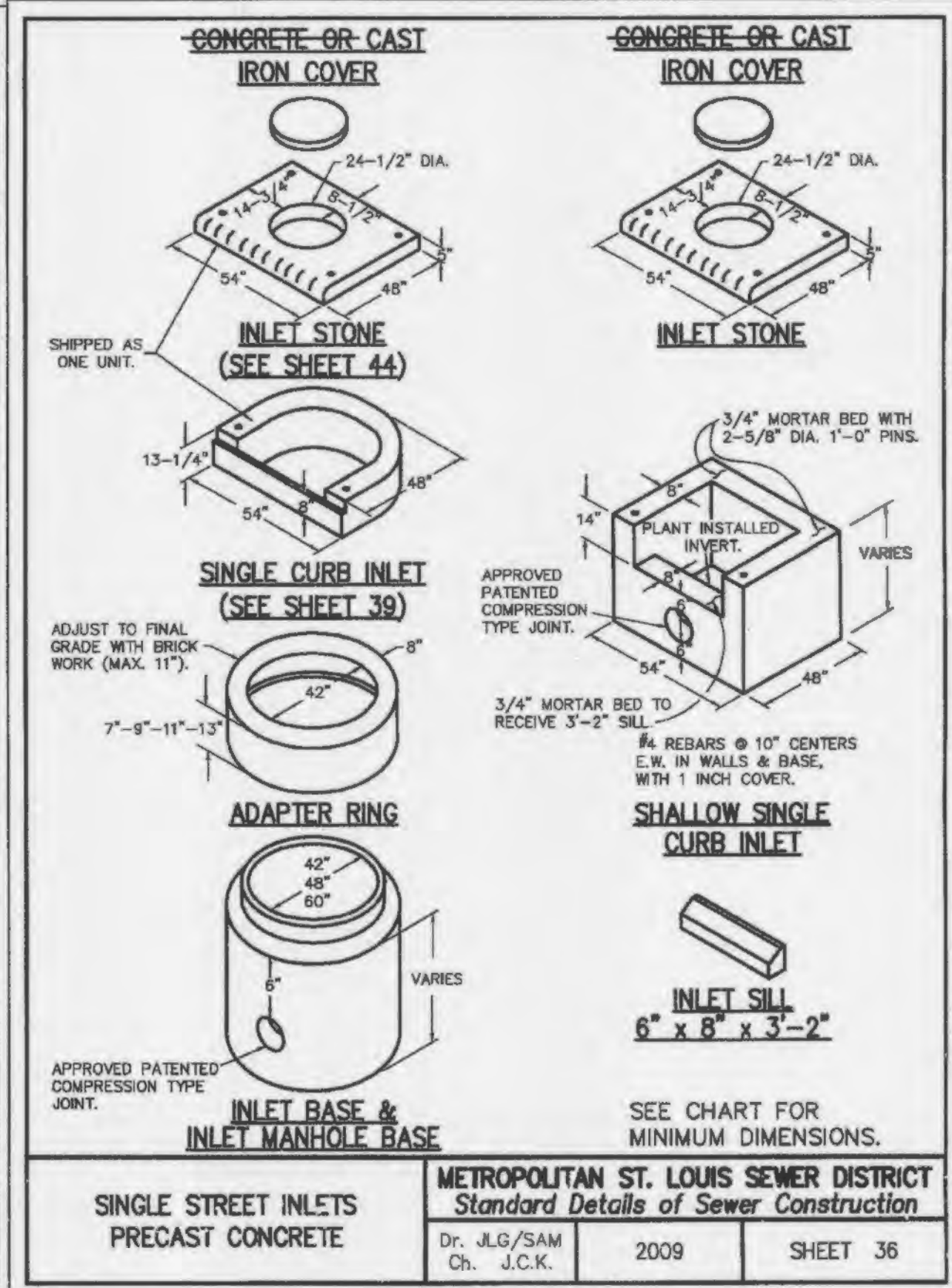
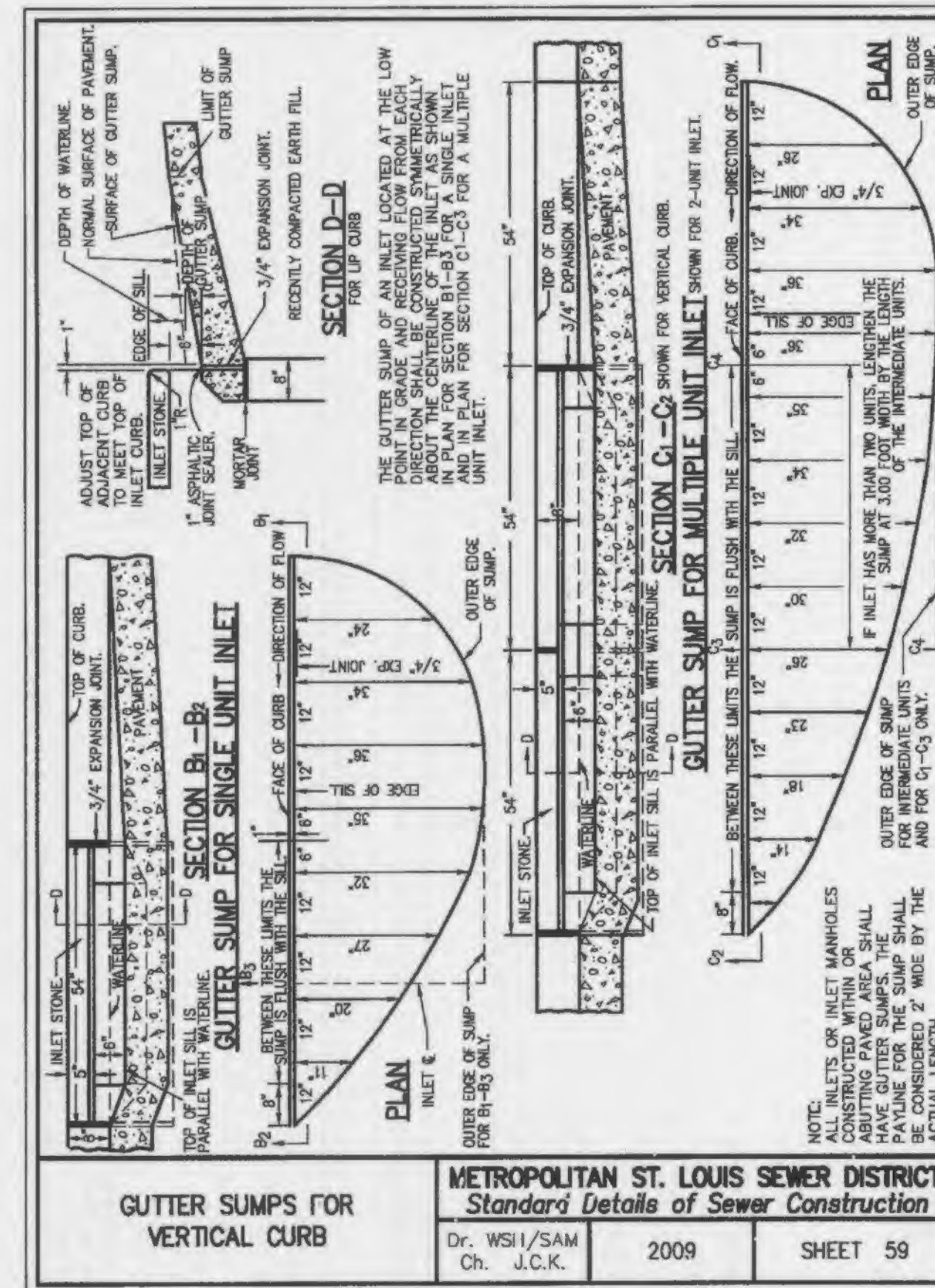
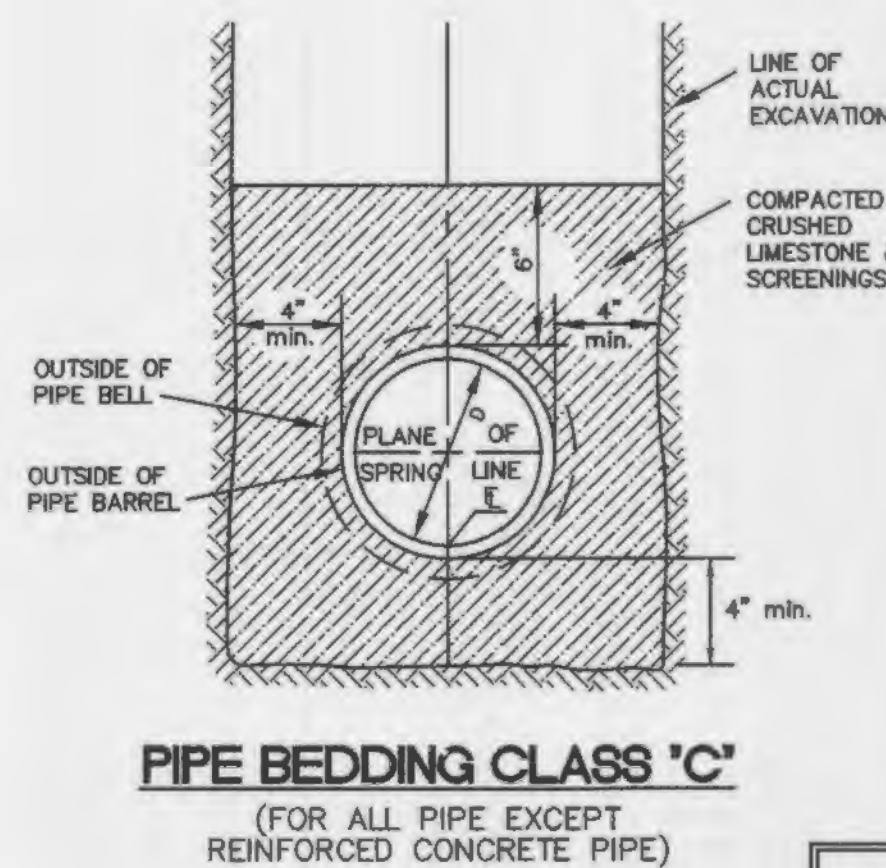
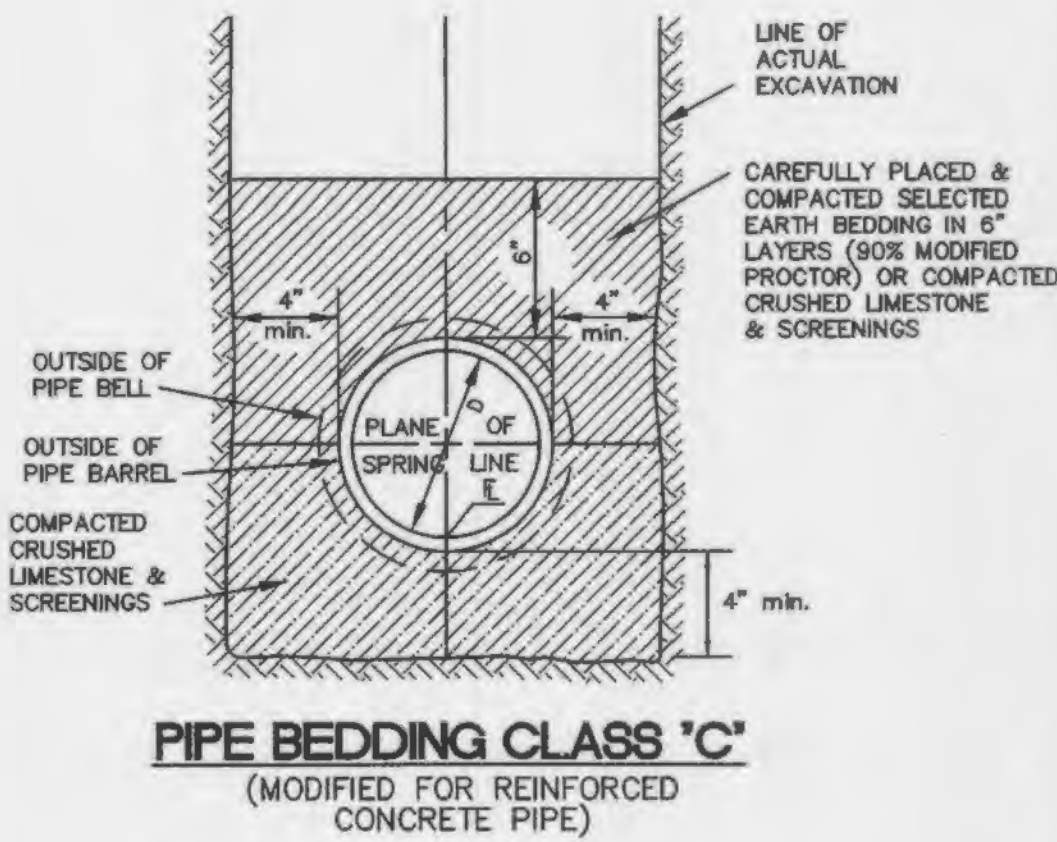




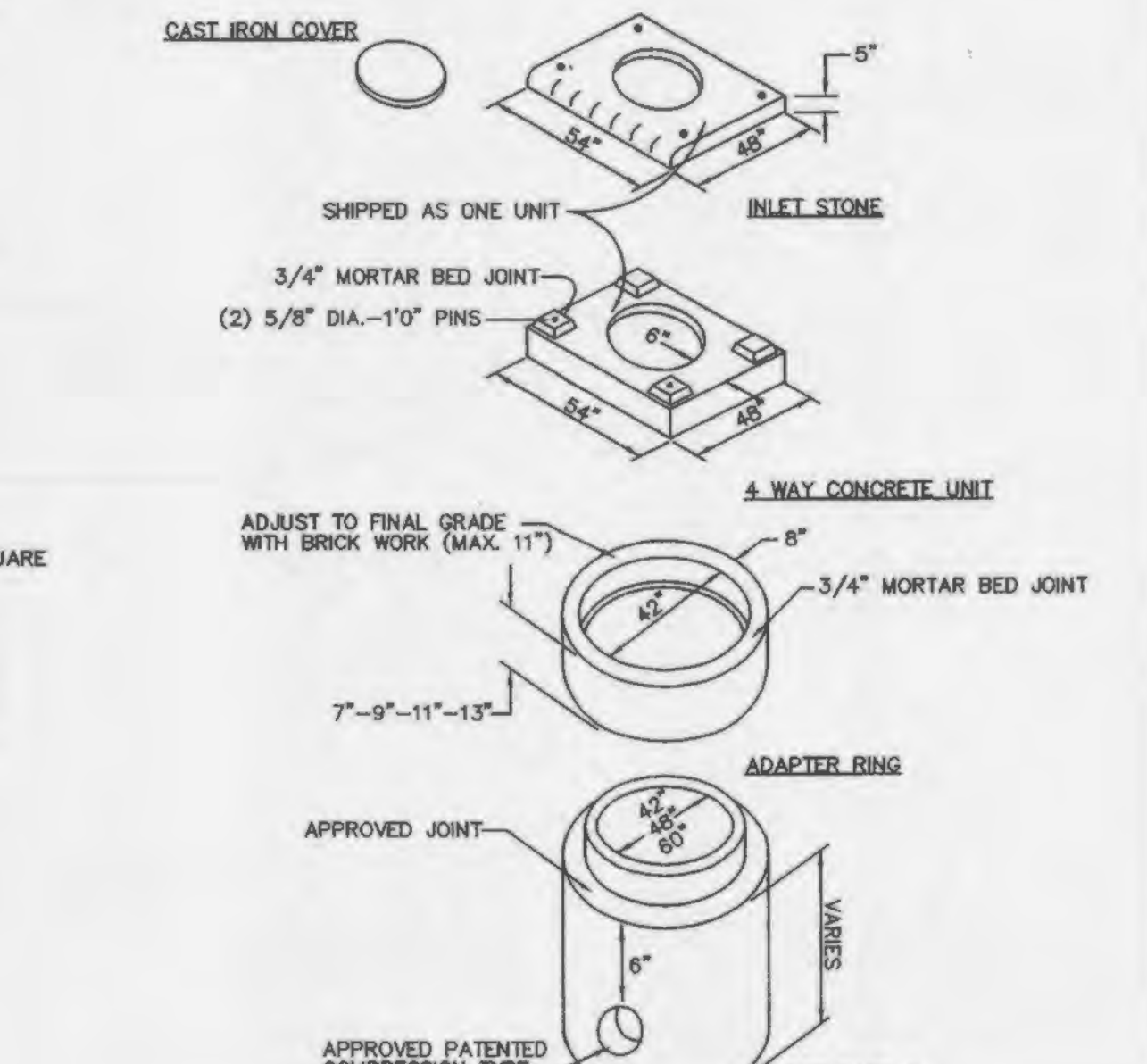
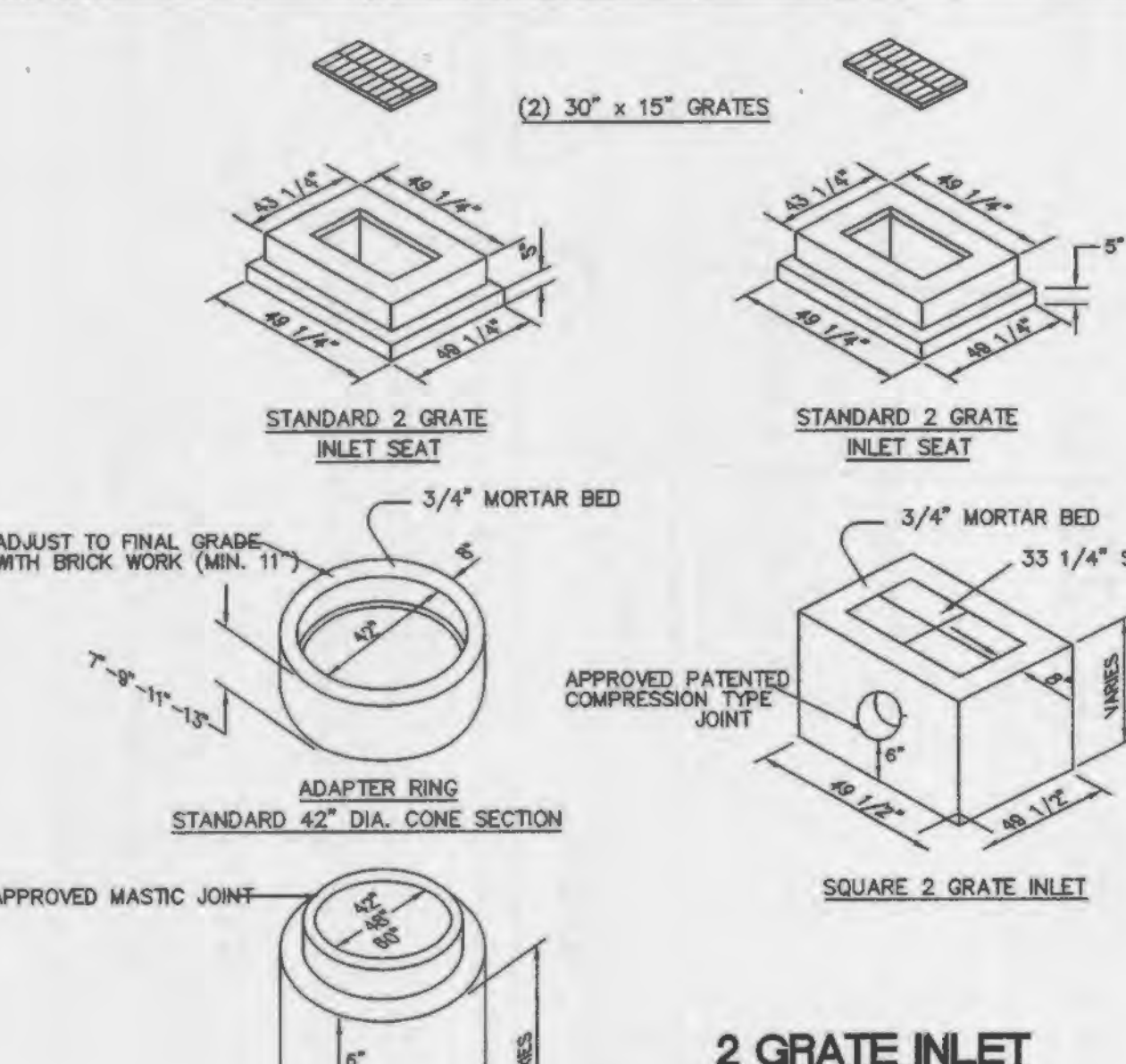
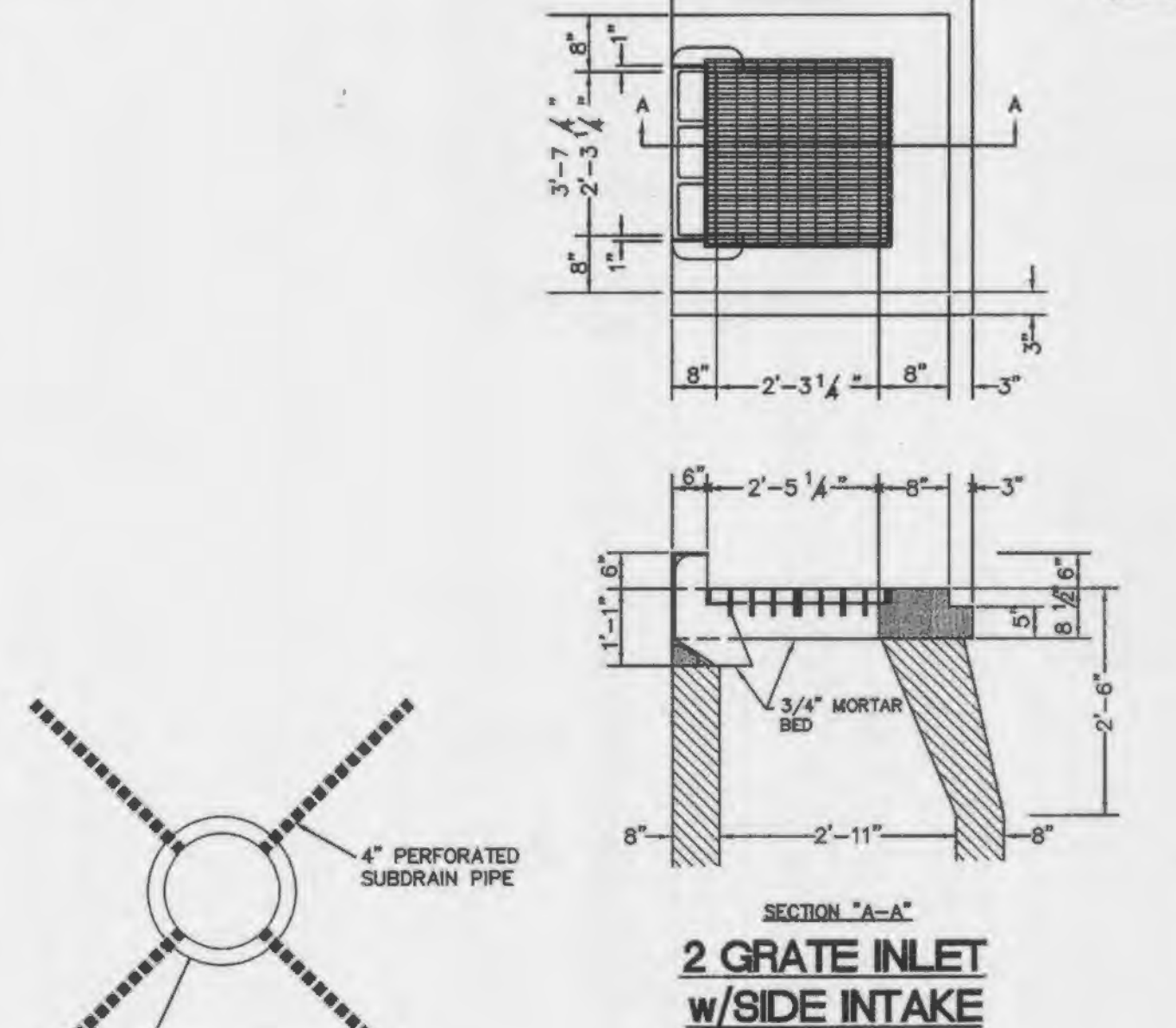
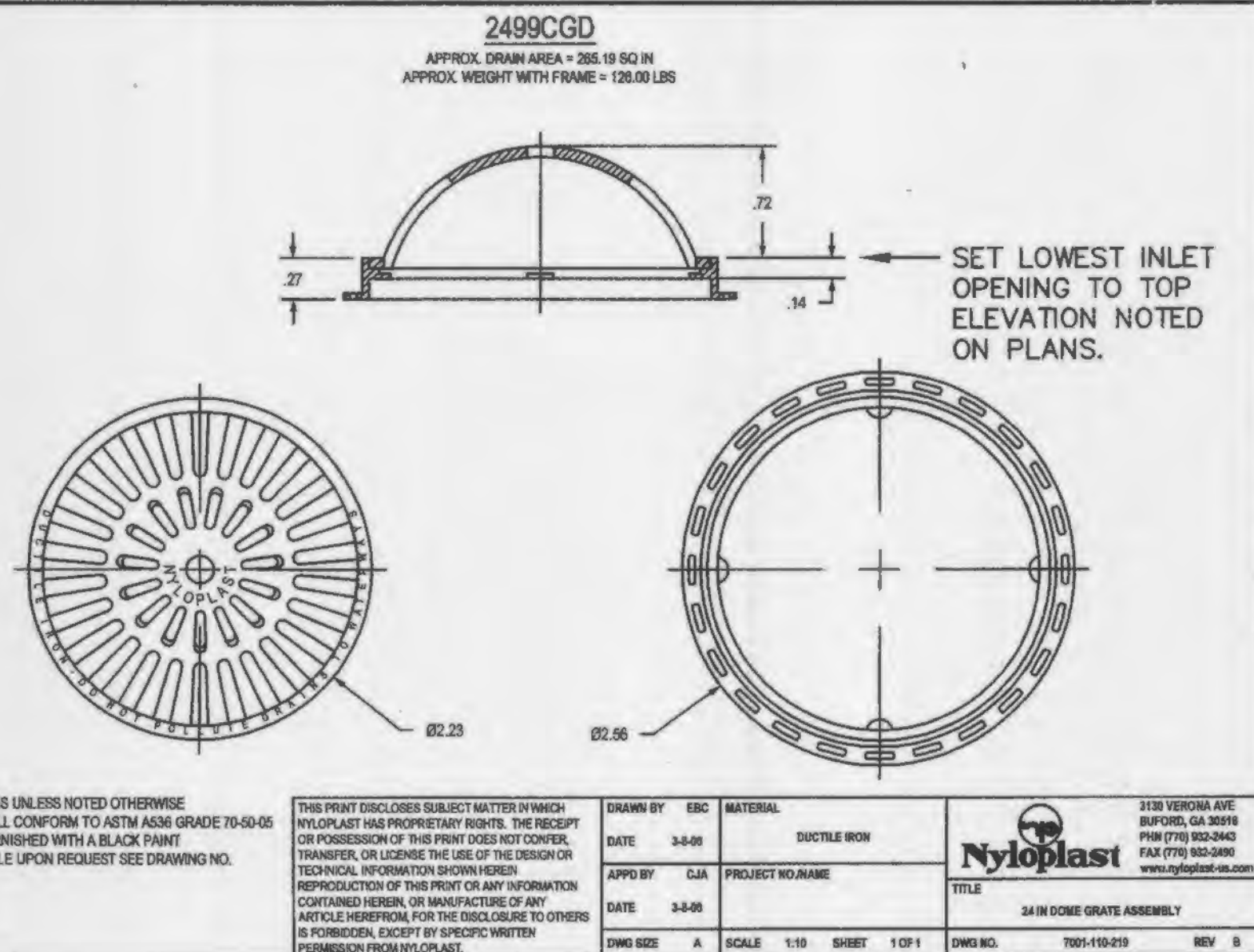
Hydraflow Summary Report (AS-BUILT)

Line no.	Line ID	Flow rate (cfs)	Line size (rise x span) (in)	Line type	Invert elev down (ft)	Invert elev up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Junct loss (ft)	Dnstrm line no.
1	st1	21.89	24	Cir	529	529.76	1.41	535	535.51*	0.57	End
2	st2	21.89	21	Cir	534.71	540.74	1.96	536.13	542.49	0.97	1
3	st3	12.57	18	Cir	540.74	542.9	1.05	543.46	546.40*	0.79	2
4	st4	3.4	12	Cir	542.9	544.05	1.85	547.18	547.75*	0.13	3
5	st5	0.88	12	Cir	544.05	544.87	1.59	547.88	547.91*	0.01	4
6	st6	0.42	12	Cir	544.87	545.67	2.82	547.93	547.93*	0	5
7	st7	5.09	12	Cir	542.9	547.23	4.61	547.18	549.10*	0.56	3
8	st8	3.72	12	Cir	547.43	549.35	2.14	549.66	550.64*	0.35	7
9	9	0.89	12	Cir	547.43	548.9	3.79	549.66	549.67	0.03	7
10	10	1.52	12	Cir	544.27	546.22	1.24	547.88	548.17*	0.06	4
11	11	1.29	10	Cir	546.42	547.07	1.05	548.23	548.44*	0.01	10
12	12	1.18	10	Cir	547.27	547.59	1	548.45	548.55*	0.01	11
13	13	1.03	8	Cir	547.79	548.19	0.99	548.56	548.83	0.02	12
14	14	0.84	8	Cir	548.39	548.79	1.01	548.85	549.22	0.03	13
15	15	0.63	8	Cir	548.99	549.47	1.01	549.33	549.84	0.11	14
16	16	0.41	8	Cir	549.67	550	1.01	549.96	550.3	0.11	15

Notes:  
 Project file: AB\_2014-06-06\_of\_ex\_2013-02-05.stm  
 I-D-F file: SAMPLE.IDF  
 Total number of lines: 16  
 Run date: 06-06-2014  
 \* Indicates surcharge condition. Intensity = 0 / (Tc + 0) ^ 0 (in/hr)  
 Return period = 2 Yrs.



NOTE: DETAILS SHOWN FOR PRIVATE CONSTRUCTION AND CONTRACTOR'S USE ONLY. REFER TO MSD SPECIFICATIONS AND DETAILS PRIOR TO CONSTRUCTION.



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 thermo-molding 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 D2321 for joints for drain and sewer elastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F427. The pipe bell gasket 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.

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 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be 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 H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into the consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fumes, ground water, and soft foundations refer to ASTM D2321 guidelines.

ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE  
 QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-60-05  
 PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT  
 LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-021

THIS PRINT ENCLOSED SUBJECT MATTER IN WHICH THIS CONTRACT HAS PROCEEDED RIGHTS, THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONSTITUTE A TRANSFER OF OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE EQUIPMENT FOR THE DISCLOSED TO OTHERS IS PROHIBITED, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

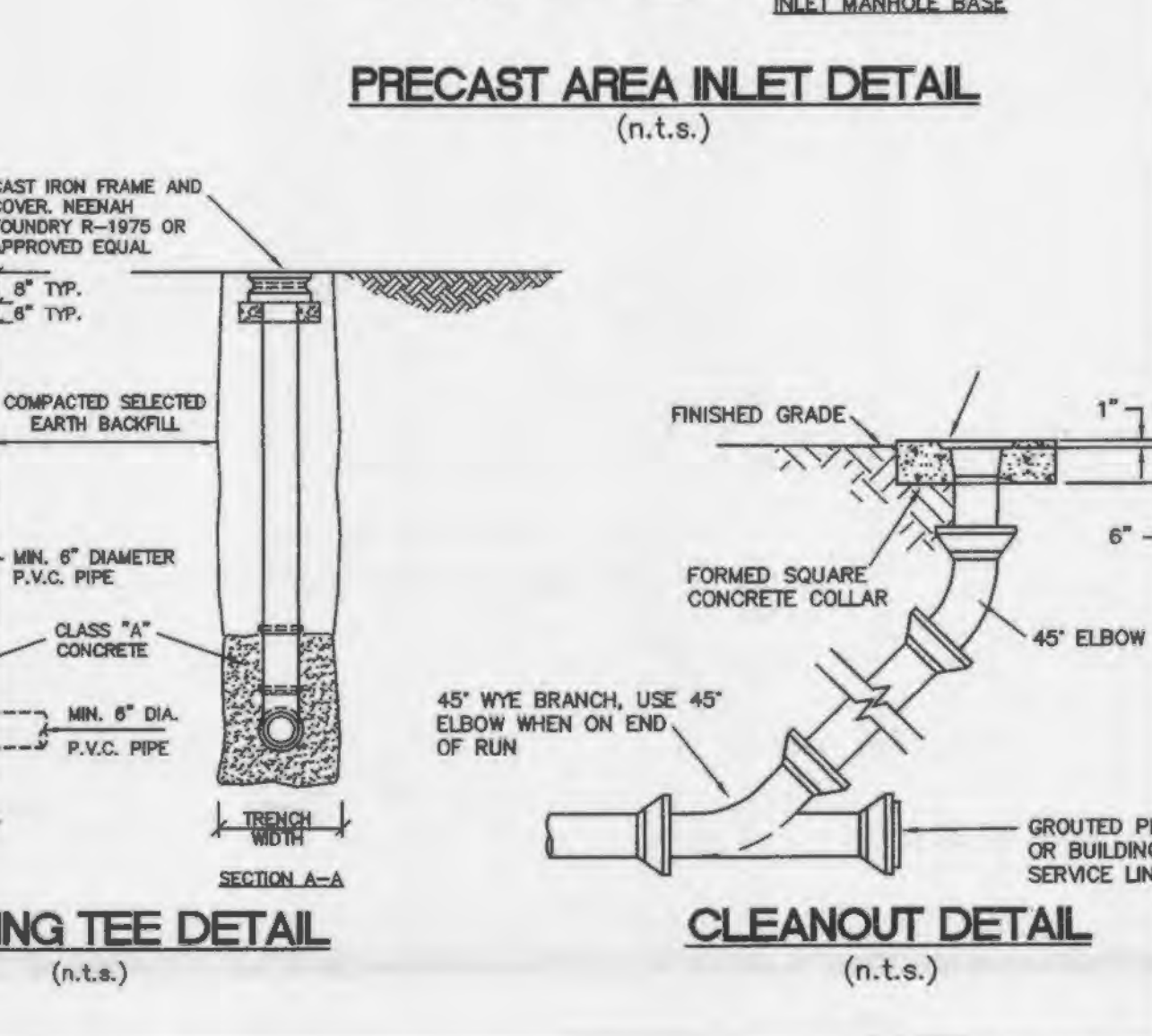
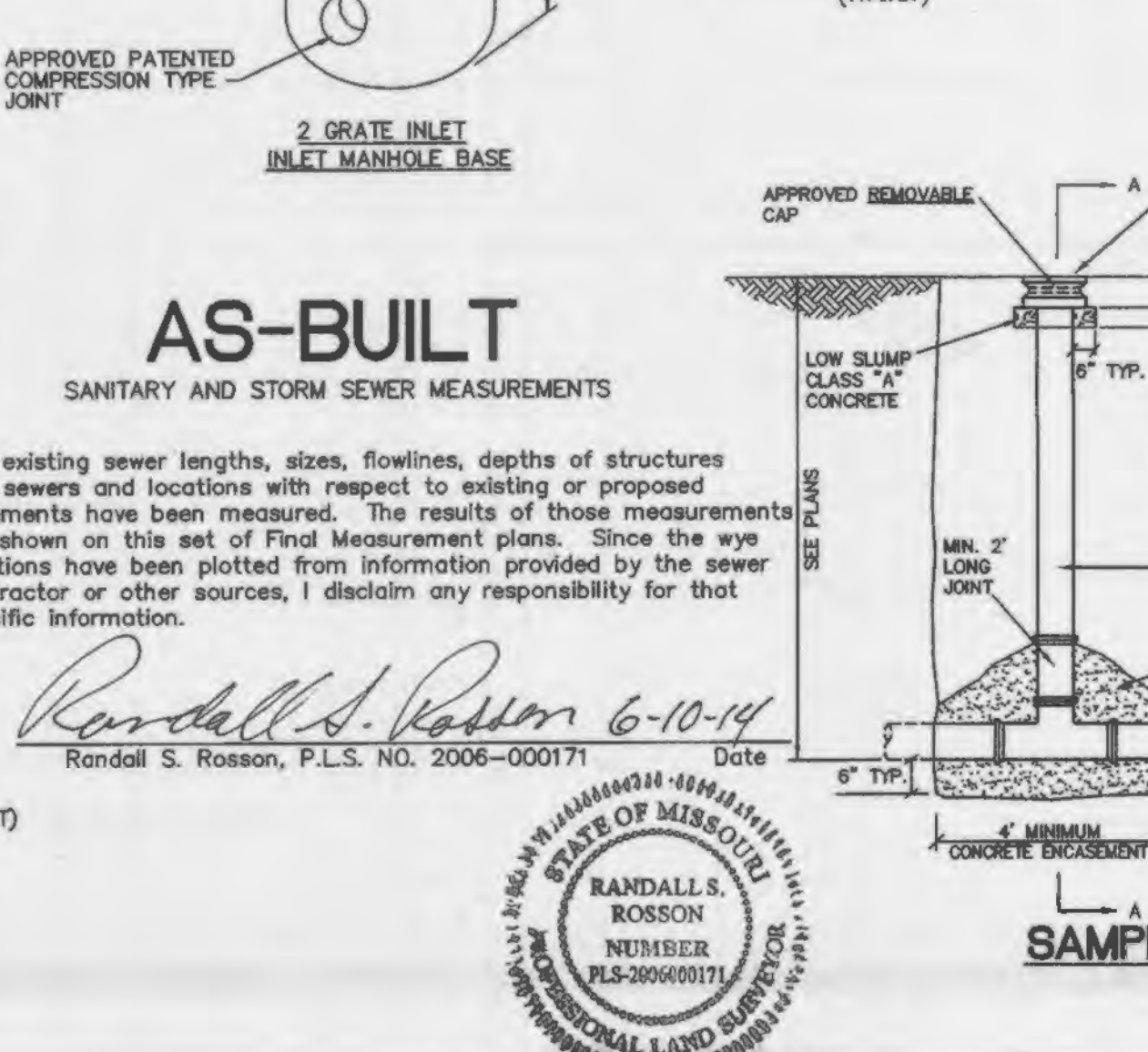
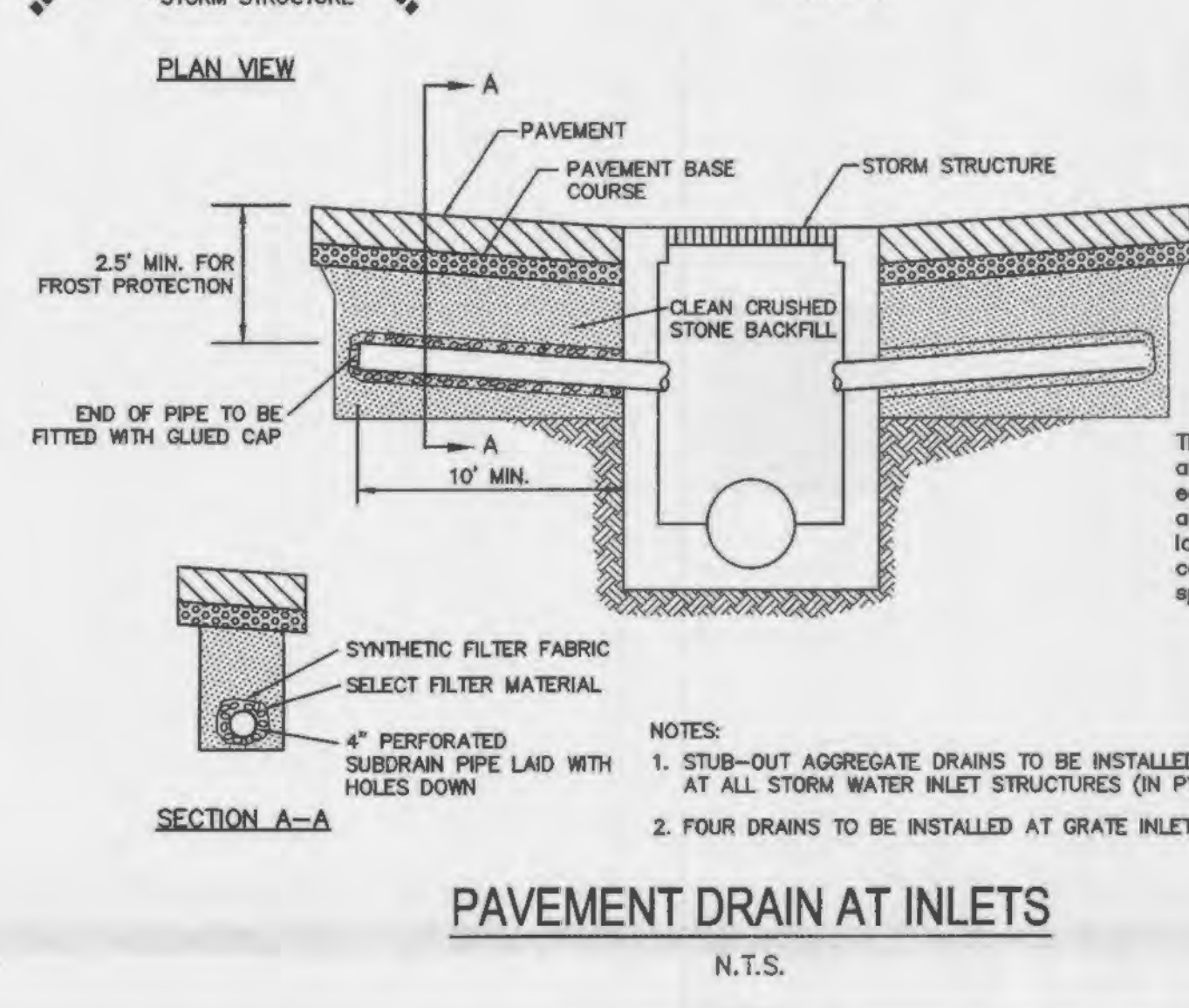
DRAWN BY: CAJ  
DATE: 3-10-05  
APP'D BY: CAJ  
DATE: 3-10-05  
DWG NO: 7001-110-021  
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Kidzie Academy  
 LOTS 2 & 3 OF LAKESIDE SHOPPES  
 # 4088 WINGHAVEN BLVD.  
 CITY OF FALLON  
 STATE OF MISSOURI

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 257 Chesterfield Business Parkway  
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 Web: www.stockassoc.com

GEORGE M. STOCK E-25116  
 CIVIL ENGINEER  
 CERTIFICATE OF AUTHORITY  
 NUMBER: 000996

Developer / Owner (Under Contract)  
 Chesterfield Childcare Properties, LLC  
 23 Bopp Lane  
 St. Louis, Mo 63131  
 Facility Operator  
 Concord Properties, LLC  
 23 Bopp Lane  
 St. Louis, Mo 63131

DATE: 01/15/13  
 A.C.D.  
 G.M.S.  
 JOB NO.: 212-5043

REVISIONS:  
 1 02/05/13 - CITY/WATER REVISIONS  
 2 02/12/13 - CITY REVISIONS  
 3 03/26/13 - CITY REQUIRED SETS  
 4 05/29/13 - PROPERTY LINE AND SIGN ESMT.  
 5 08/28/13 - FINAL PLAYGROUND LAYOUT

P+Z No. 98314104  
 (APPROVED JANUARY 4, 2013)  
 City No.

Page No.

C6.1