

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 054

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 03/06/2017

Contract Date:

Reason Code: 06 Owner's Scope

Discipline Code: 07 7 General Construction
(Architectural)

St. Louis
Baltimore
Boston
Buffalo
Calgary
Chicago
Houston
Los Angeles
Mumbai
New York
Phoenix
San Francisco
Shanghai
Toronto
Vancouver
Victoria
Washington DC

Owner:
Webster University

Architect:
Cannon Design
1100 Clark Avenue
St. Louis, MO 63102

Contractor:
Paric Construction

Contract For: General construction

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Indicate your acceptance of these instructions for minor change to the Work as consistent with the Contract Documents and return a copy to the Architect within fourteen (14) business days of the date of issuance of these instructions. If you feel a change in Contract Sum or Contract Time is warranted, please submit an itemized quotation for the changes for approval within fourteen (14) business days of the date of issuance of these instructions prior to proceeding on the Work. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change.

Attachments:

Sheets:
A0101.A, A0201, A1101.
C400, C500, C601, C701.

1100 Clark Avenue
St. Louis, Missouri
63102
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F: 314.241.2570
www.cannondesign.com

Reason Codes:
#1. Jurisdictional Agency
#2. Constructor Driven
#3. Document Inconsistency
#4. Fast Track Driven
#5. A/E Scope
#6. Owners Scope
#7. Unforeseeable Conditions
#8. Other

Discipline Codes
#1. Demo-demolition
#2. Div1-Division 1 items on the spec book
(this item is not used)
#3. Electrical
#4. Elevator
#5. Equipment (Changes in equipment,
Owner Purchased)
#6. Fire Protection

Discipline Codes
#7. General Construction (Architectural)
#8. General Conditions (Div. 1)
#9. HVAC
#10. Other
#11. Plumbing
#12. Site Work/Landscaping
#13. Structural

Architect's Supplemental Instructions

Page 2

Description:

Bollards layout (east & west) revision, Trash enclosure revision, and elevation clarifications for mechanical access areaway.
Revised 'Surgical/OR Light' installation in room 133B SIM LAB from OFCI to OFOI.

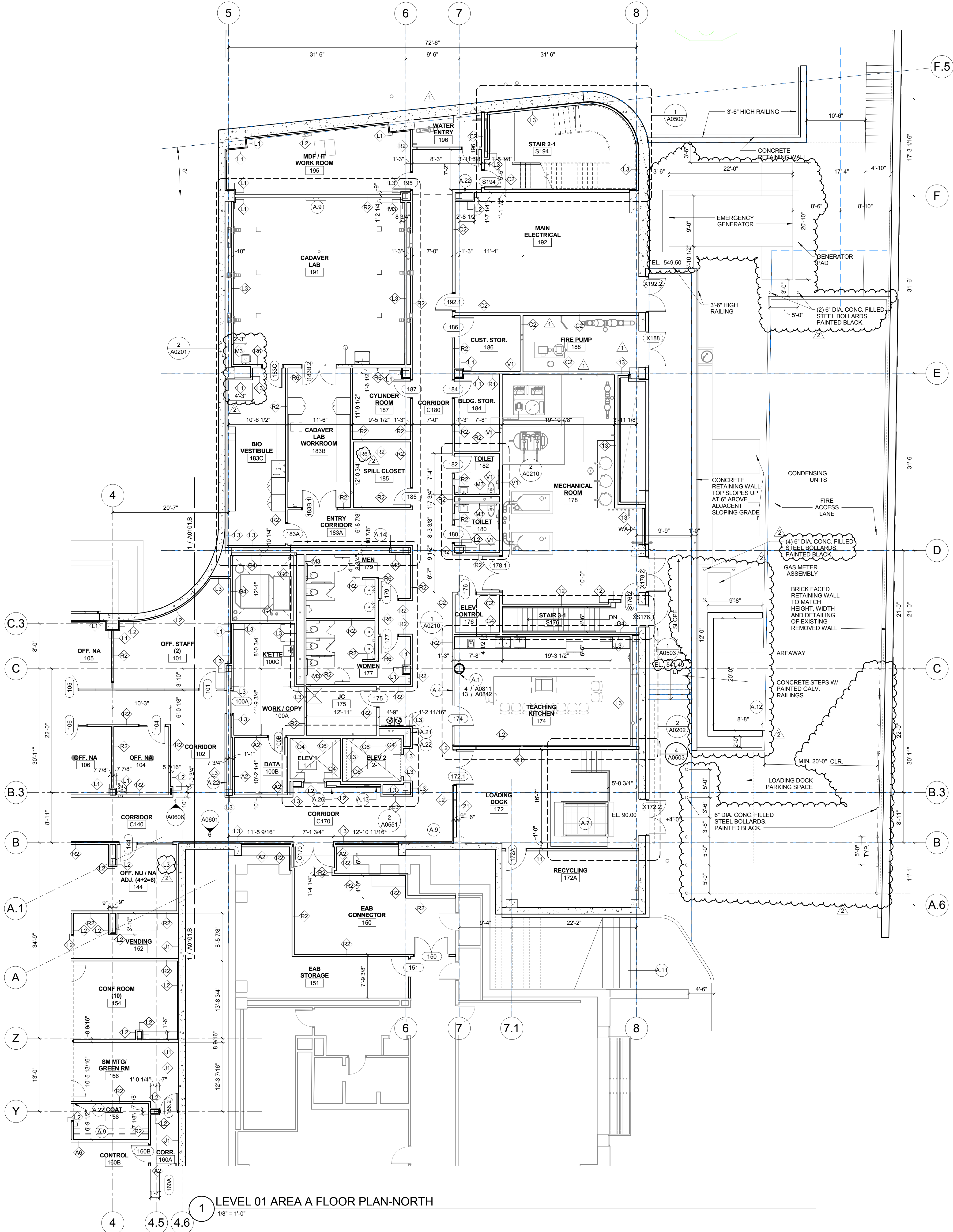
Please submit an itemized proposal for changes in contract Sum and Contract Time for proposed modifications to the Contract Documents described herein:

Issued by Architect: Kelvin Patel, CannonDesign;
Mark Davis, DMA.

Accepted by Contractor:

KEYED NOTE LEGEND - PLAN

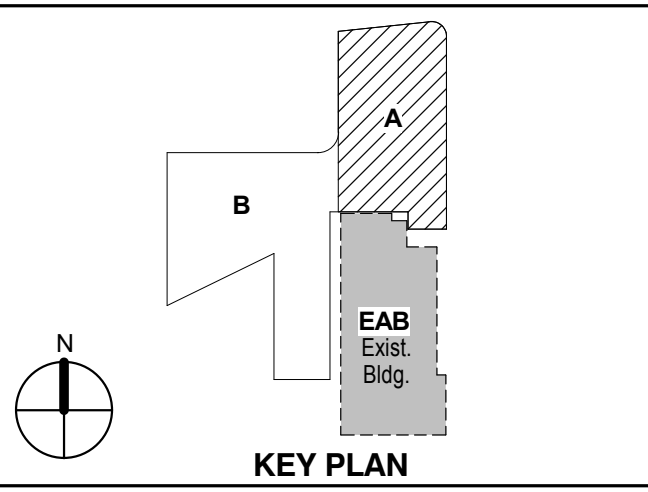
- A.1 092709 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA. TYP. SEE DETAIL 4/A0811 AND 13/A0842.
A.2 081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0803
A.3 081216 INTERIOR GLAZING SYSTEM IGS-2: SEE TYPICAL ELEVATION 5 AND 6 A0603
A.4 081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
A.5 088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN: VETROTECH CONTRAFILAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
A.6 088813 FIRE RATED GLAZING AND FRAME- 120 MIN. FIRE RATED GLAZING 1'-8" HIGH X 5'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFILAMM WITH PERIMETER FRAMING.
A.7 111519 LOADING DOCK LIFT - STATIONARY - 6W X 8' DEEPW/ 14" PIT
A.8 ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
A.9 UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
A.11 NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
A.12 553006 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
A.13 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.14 MARKERBOARD SURFACE
A.15 WOOD SCREEN W/ SOLID LUMBER
A.17 VIDEO WALL - 24 55" SCREENS
A.18 LCD SCREEN LOCATION (OFOI)
A.19 AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
A.20 12200 CURTAIN LOCATION
A.21 104313 AED CABINET LOCATION
A.22 10 4413 FEC WITH FIRE EXTINGUISHER
A.23 08 4423 SULL SASH LOCATION: PROVIDE 1/4" TEMPERED CLEAR GLAZING AT INTERIOR FACE OF CURTAIN WALL MULLIONS FOR ACOUSTICAL SEPARATION.
A.24 6" X 8" FORMED CONCRETE TRENCH IN FLOOR W/ METAL PLATE COVER. PROVIDE BLIND SIDE WATERPROOFING
A.25 BUILT IN SALT WATER FISH TANK LOCATION. SIZE APPROX. 7'-6" X 2'-4" X 2'-6" HIGH. LOW IRON GLASS VIEW WINDOW ON CORRIDOR SIDE. SLIDING DOOR ON LAB SIDE. FISH TANK EQUIPMENT BELOW TANK W/ CABINET DOOR ACCESS ON LAB SIDE. FINISHED INTERIOR FACE OF WALLS AND CEILING INSIDE CAVITY W/ WATER RESISTANT GYP BOARD AND EPOXY PAINT.
A.26 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.27 CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002



LEVEL 01 AREA A FLOOR PLAN-NORTH

1/8" = 1'-0"

2	ASI-054	06 MAR 2017
1	ADDENDUM 3-1	05 APR 2016
1	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016

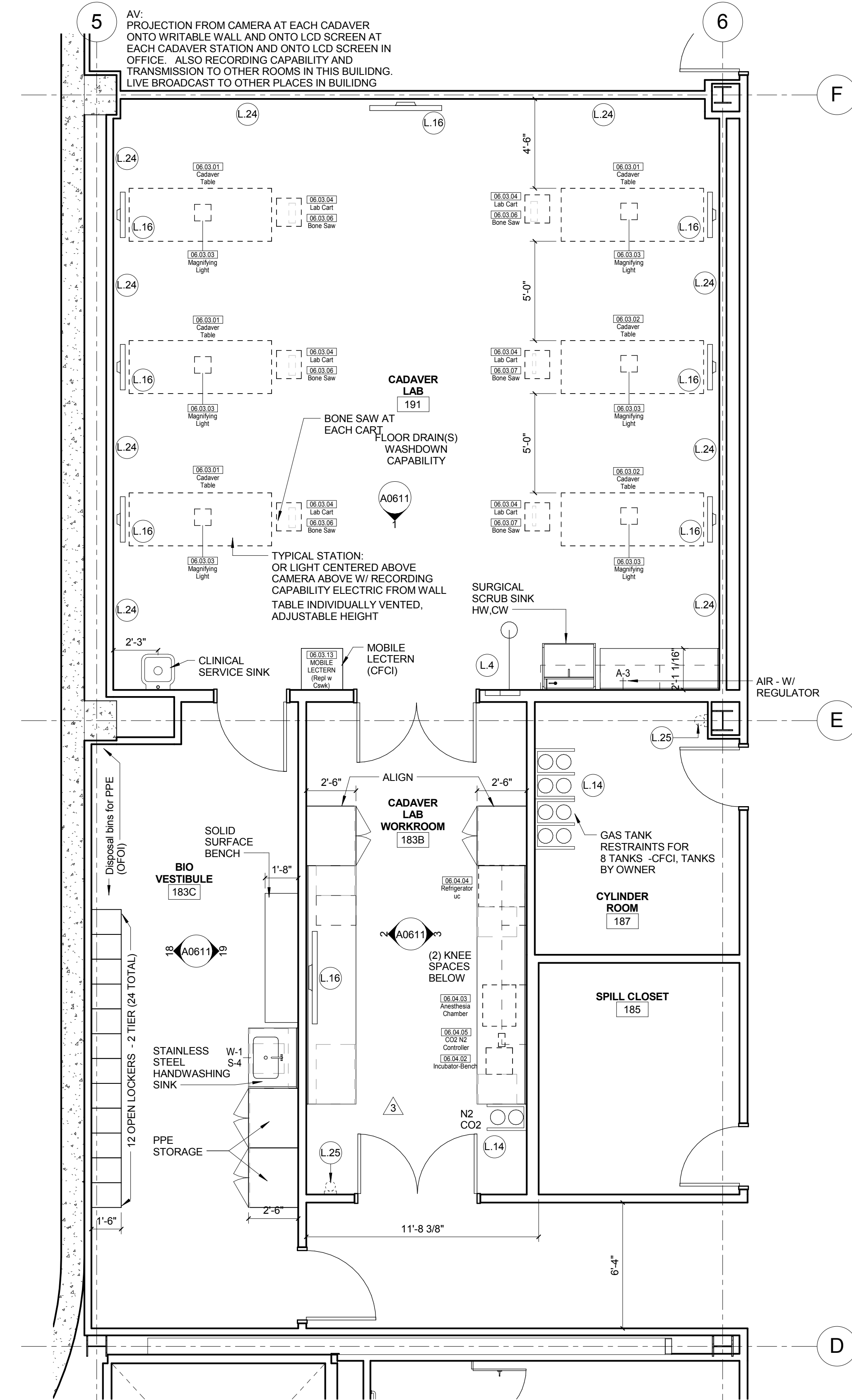


KEY PLAN

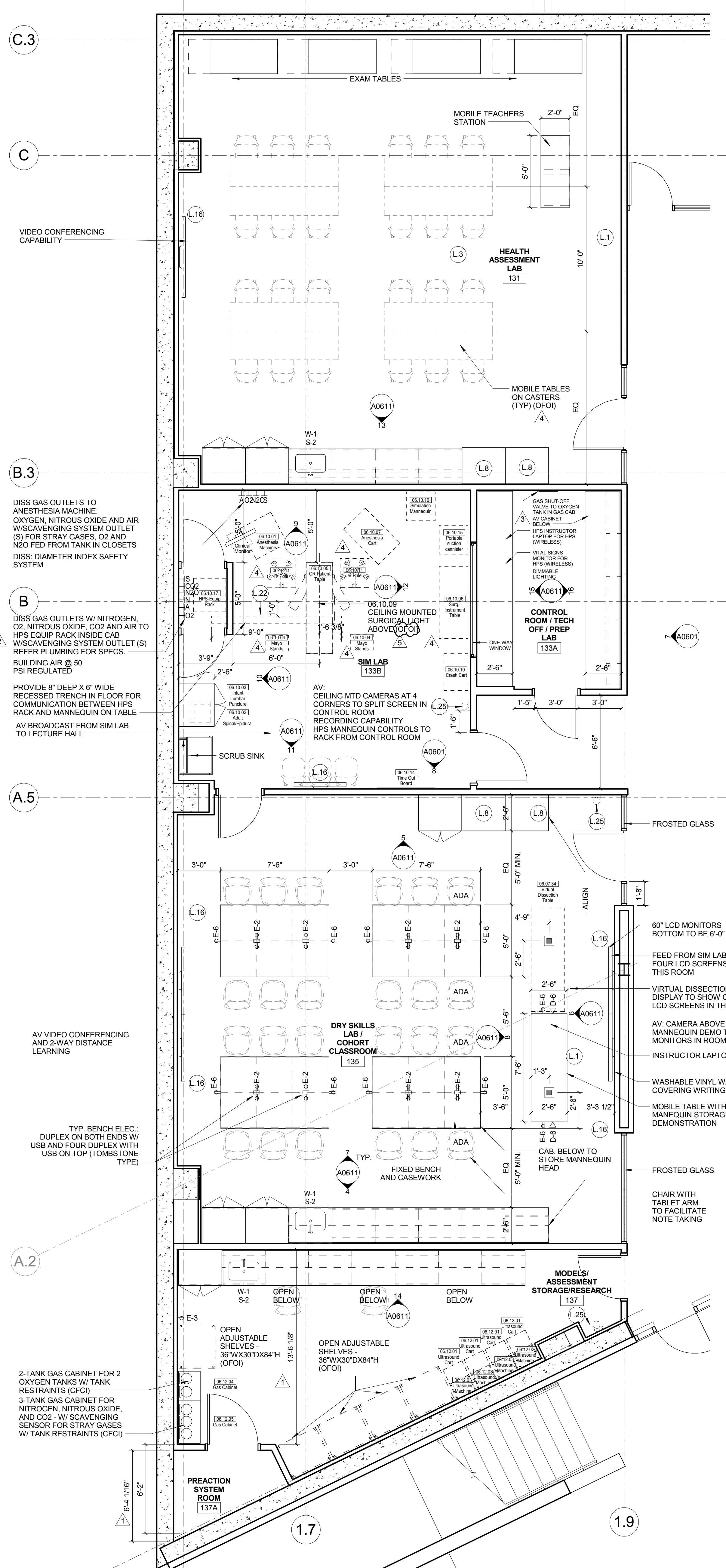
LEVEL 01 AREA A FLOOR
PLAN

Project No.: 04561.01 Checked by:

A0101.A



2 LEVEL 01 - AREA A - WEST - CADAVER LAB
1/4" = 1'-0"



1 LEVEL 01 - AREA B - WEST - NURSING/ANESTHESIA
1/4" = 1'-0"

LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
- L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
- L.3 WALL MOUNTED PROJECTOR ABOVE
- L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L.5 1151313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.7 WOOD LAB CASEWORK MICROSCOPE CAB
- L.8 WOOD LAB CASEWORK TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
- L.9 11 5313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.10 CABS BELOW WHITEBOARD
- L.11 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS.
- L.12 CAMERA FOR SKYPE INTERVIEW
- L.14 GAS CYLINDER STORAGE RACK (CFCI), CYLINDERS TO BE "OFO"
- L.15 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS.
- L.16 LCD MONITOR
- L.18 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09A0911.
- L.19 MOVEABLE WOOD LABORATORY CASEWORK, TABLE WITH MODIFIED EPOXY COUNTERTOP, CABINETS SUSPENDED BELOW AS INDICATED.
- L.20 FIXED WOOD LABORATORY CASEWORK, BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
- L.21 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L.22 8" DEEP x 6" WIDE TRENCH WITH METAL COVER TO RECIEVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L.23 FLOOR BOX FOR ELECTRICAL & DATA
- L.24 09 6666 DRY ERASE FINISH (AWC-1)
- L.25 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT: 3'-0" TO TOP OF EXTINGUISHER, FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L.26 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
- W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
- DI WATER FAUCET DECK MOUNTED
- PWS DI WATER FAUCET DECK MOUNTED
- PWR WATER PROCESS COLD WATER RETURN
- EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN, DH
- DH WATER DRENCH HOSE
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A FUM FUME HOOD CONTROL
- A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- N NITROGEN FUMEHOOD CONTROL
- E ELEC DUPLEX OUTLET (GFI) ON FUME HOOD
- E-1 ELEC COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET
- E-2 ELEC COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET
- E-3 ELEC WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET
- E-5 ELEC DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- S CUP SINK LIPPED MODIFIED EPOXY CUP SINK, 9"X3" W OVAL (DROP-IN).
- S-1 SINK LIPPED MODIFIED EPOXY SINK, 25"X15"X10"D (DROP-IN).
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"X10"D (DROP-IN).
- S-3 SINK STAINLESS STEEL SINK 25"X15"X10"D (DROP-IN).
- S-4 SINK STAINLESS STEEL ADA SINK 25"X15"X10"D (DROP-IN).
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"X15"X10"D (DROP-IN).
- S-6 SINK LIPPED MODIFIED EPOXY SINK, 36"X15"X10"D (DROP-IN).
- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913.
- PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTERLINE UNLESS NOTED
- OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNERS REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHABOUT CENTERLINE OF SINKS UNLESS NOTED
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 27" CLEAR ABOVE FLOOR FINISH
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK UNLESS NOTED
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH UNLESS NOTED
- ALL BACKSPLASHES TO BE 4" HIGH UNLESS NOTED
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING INSIDE CASEWORK
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL, SIMILAR TO DETAIL 11
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED
- REFER SHEETS A0911 FOR LABORATORY CASEWORK / MILLWORK DETAILS
- FOR TYPICAL MOUNTING HEIGHTS REF: 1/A0911
- ALL CASEWORK TO BE WOOD UNLESS NOTED
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR OFOI. SEE DIVISION 12 3553 - LABORATORY CASEWORK FOR SPECIFICATIONS
- ALL EQUIPMENT ITEMS HAVE AN EQUIPMENT TAG - XXX.XX. SEE SHEETS A111 FOR EQUIPMENT SCHEDULES
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION



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5	ASI-054	06 MAR 2017
4	ASI-048	27 JAN 2017
3	ASI-035	10 NOV 2016
2	ASI-033	03 NOV 2016
1	RFI 305	13 OCT 2016
- ISSUED FOR CONSTRUCTION (BPS)		15 MAR 2016
No.	Description	Date

Drawing Title:

ENLARGED PLANS-LEVEL
01

Project No.: 04561.01

Checked by:

A0201



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A diagram of a triangle with a wavy line on its left side and the number 2 inside.

1

GENERAL NOTES:

1) ALL THE EQUIPMENT IS 'OFOI' U.N.O.

LEGEND:

* MOUNTING LOCATION

B: Benchtop
U: Undercounter
F: Floor
W: Wall
C: Ceiling
S: Storage

**** FURNISHED & INSTALLED BY:**

CFCI: Contractor Furnished Contractor Installed
OFCI: Owner Furnished Contractor Installed
OFOI: Owner Furnished Owner Installed

1. IF STORM AD SANITARY SEWERS ARE PARALLEL AND IN THE SAME TRENCH, THE UPPER PIPE SHALL BE PLACED ON A SHELF AND THE LOWER PIPE SHALL BE BEDDED IN COMPACTED GRANULAR FILL TO THE FLOW LINE OF THE UPPER PIPE.
2. JOINT JOINTS SHALL BE ADAPTED TO THE FLOW LINE OF THE UPPER PIPE. THE ADAPTERS AND COUPLINGS SHALL BE 316 STAINLESS STEEL AND BE INSTALLED WITH 316 STAINLESS STEEL NUT AND BOLT CLAMPS (T-BOLT) CONFIGURATION; AND WITH STAINLESS STEEL SHEAR BANDS, BEING A MINIMUM OF 12 (12) MILS (MSD STD. CONST. SPECS. PT. 2, SUBSECTION H 11). WORM DRIVE HOSE CLAMPS AND CONCRETE BACKFILLING (CAUSTICITY) WILL NO LONGER BE ALLOWED AT THOSE JOINTS. GRANULAR BACKFILL SHOULD BE USED. IF FLOODED, THE TRENCH SHALL BE FLOODED AND COUPLINGS SHALL BE ADAPTERS AND COUPLINGS WITH A SIX (6) MIL POLYETHYLENE SHEET.
3. LIMITS OF DISTURBANCE: THE CONTRACTOR SHALL STAY WITH THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHENEVER POSSIBLE.
4. CONSTRUCTION OF STRAPPED PLUMBING SHALL BE CONSISTENT WITH MSD RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY SEWER AND STORMWATER DRAINAGE FACILITIES (FEBRUARY 2006), FIGURES 3-1 & 3-2.
5. A BACKWATER VALVE SHALL BE REQUIRED ON ALL SANITARY BUILDING LATERALS PER THE LOUISIANA CITY PLUMBING CODE.
6. THE OWNER ACKNOWLEDGES THE POTENTIAL OF FLOODING DUE TO THE 100-YR OVERLAND FLOW PATH BEING BLOCKED WITH THE PROPOSED IMPROVEMENTS. THE POTENTIAL FLOODING LOCATIONS ARE IDENTIFIED AS THE FOLLOWING AREAS: PROPOSED AREA DRAINS #10 THROUGH #50 AND PROPOSED TRENCH DRAIN #170.
7. EXTERNAL GREASE TRAPS AND SAMPLING MANHOLE: AN EXTERNAL GREASE TRAP IS REQUIRED TO BE LOCATED IN AN ACCESSIBLE LOCATION FOR MSD INSPECTION. PROVIDE MEANS FOR VISUAL INSPECTION FROM ABOVE FOR BOTH INFLUENT AND EFFLUENT SIDES. A MSD SAMPLING MANHOLE WILL BE LOCATED ON THE EXISTING LATERAL. AN ACCESSIBLE LOCATION FOR MSD SAMPLING. THE SAMPLING MANHOLE WILL BE LOCATED DOWNSTREAM OF THE GREASE TRAP AND ALL OTHER COMMERCIAL SANITARY LATERAL CONNECTIONS TO FACILITATE MSD SAMPLING. GREASE TRAPS AND SAMPLING MANHOLES WILL BE SHOWN ON THE PLAN AND NOT BE LOCATED IN DRIVE-THRU LANES OR WITHIN PARKING SPACES.
8. THE ENTIRE EXISTING RAIN GARDEN "A" MIGHT HAVE TO BE REPLACED DURING CONSTRUCTION IF THE MSD INSPECTOR BELIEVES THAT THE RAIN GARDEN IS GETTING PLUGGED UP DURING THE CONSTRUCTION OF THE PROPOSED FLOW DEFENDER. DOWNSTREAM OF THE DEFENDER.
9. AN INTERNAL GREASE INTERCEPTOR SHALL BE PROVIDED FOR THE BUILDING AS SHOWN ON PLUMBING PLAN SHEET P0011. THIS ITEM SHALL BE CONNECTED TO THE BUILDING SANITARY SEWER.
10. A GREASE INTERCEPTOR SHALL BE PROVIDED FOR THE BUILDING FOUNDATION DRAIN LINES AS SHOWN ON PLUMBING PLAN SHEET P0010. THIS ITEM SHALL BE CONNECTED TO THE BUILDING STORM SEWER.

1 CONTRACTOR TO FIELD LOCATE EXISTING DOWNSPOUT LINE AND RELOCATE WITH 8" PVC
TIED INTO PROPOSED STORM SEWER SYSTEM.

2 SEE LANDSCAPE PLANS FOR HARDSCAPE DETAILS.

3 CONSTRUCT TRENCH DRAIN BEHIND SEAT WALL ON GRASS SIDE AND AT THE BASE OF THE
SEAT WALL ON THE PLAZA SIDE. DISCHARGE UPPER TRENCH DRAIN TO PLAZA (3A).
DISCHARGE LOWER TRENCH DRAIN TO MANHOLE 23 (PRIVATE).

4 CONCRETE RETAINING WALL WITH ARCHITECTURAL FINISH.

5 CONCRETE RETAINING WALL WITH FIBER/CEMENT PANEL FINISH.

6 PLACE 2 AREA DRAINS IN AREA WELL AND CONNECT WITH 8" PVC TO MANHOLE, SEE
PROFILE.

7 CONSTRUCT DUMPSTER PAD AND ENCLOSURE.

8 6" DIAMETER PVC, W/R SMITH 1775 SS COVER TO BUILDING DOWNSPOUT. SEE PLUMBING
FOR CONTINUATION. FL = 552.00. ROCK BLANKET 5'Lx5'Wx1'D.

9 6" DIAMETER PERFORATED SUB DRAIN, (TYP) 6

10 DISCHARGE EXISTING STORM DRAINS TO BASIN EITHER DIRECTLY IF FLOWLINE ALLOWS, WITH
END OF PIPE HEADWALL, OR VIA BUBBLER. MATCH EXISTING PIPE TYPE, DIAMETER AND
SLOPE. ROCK BLANKET 5'Lx5'Wx1'D.

11 4" DIAMETER PERFORATED SUB DRAIN, (TYP) INSTALL CLEANOUT AT END PER DETAIL.

12 SAMPLING "T"

13 CLEANOUT (CO) TOP = 552.00, FL = 547.25 (TYP)

14 INLET 180 IS SIMILAR TO INLET 3D, DRAIN THRU RETAINING WALL WITH 8" PVC. TOP =
554.70, FL = 552.67, FL = 552.00 AT RAIN GARDEN. ROCK BLANKET 5'Lx5'Wx1'D.

15 PRIVATE 6" SANITARY SEWER LATERAL AT 2% MIN.

16 SAMPLING MANHOLE

17 GREASE INTERCEPTOR. SEE PLUMBING.

18 BUILDING DOWNSPOUT. SEE PLUMBING

19 PAVERS TO BE REMOVED AND REPLACED IN KIND TO FACILITATE CONSTRUCTION OF WATER
LINE.

20 PLAZA OBSERVATION WELL TOP = 540.85, FL = 538.67 (TYP)

21 CONDENSING UNITS, SEE MECHANICAL FOR LOCATION

22 RAIN GARDEN INFORMATIONAL SIGN

23 P/CIP INFORMATION SIGN

24 GAS METER, 6"x6"x6" THICK CONCRETE PAD WITH 4 BOLLARDS, ONE IN EACH CORNER. SEE
DETAIL C701 FOR DETAIL. MECHANICAL FOR PIPING, ARCH FOR COLOR.

25 20"-6" DIAMETER COMPOSITE FILLED STEEL BOLLARDS, SEE ARCH FOR COLOR AND LAYOUT.

26 INTEGRAL CURB AND SIDEWALK.

27 ADJUST LOCATION OF DRAINS AND PIPING BASED ON DOUBLE WALL CONFIGURATION.

28 NEW HYDRO INTERNATIONAL 48" DOWNSTREAM DEFENDER.

29 NEW FLOW SPLITTER MANHOLE.

30 NEW FIRE HYDRANT

31 REMOVE AND REPLACE EXISTING BRICK SCREEN WALL. SEE ARCHITECTURAL AND
STRUCTURAL.

32 CLEANOUT (CO) TOP = 551.00, FL = 546.25 (TYP) 3

33 TRAPPED UNDERDRAIN (TU) TOP = 541.26±, FL = 539.64 (TYP),
FL = 538.98 (TYP) 3

34 TB&R AT MSD INSPECTORS DISCRETION 3

35 ROCK BLANKET (5'Wx5'Lx1'D)

36 PRIVATE 6" PVC SANITARY SEWER LATERAL, @ 2% MIN FOR INTERIOR GREASE INTERCEPTOR.
BUBBLER, TOP ELEVATION 552.50, CONNECT TO 4" BUILDING DOWNSPOUT PER
DETAIL.

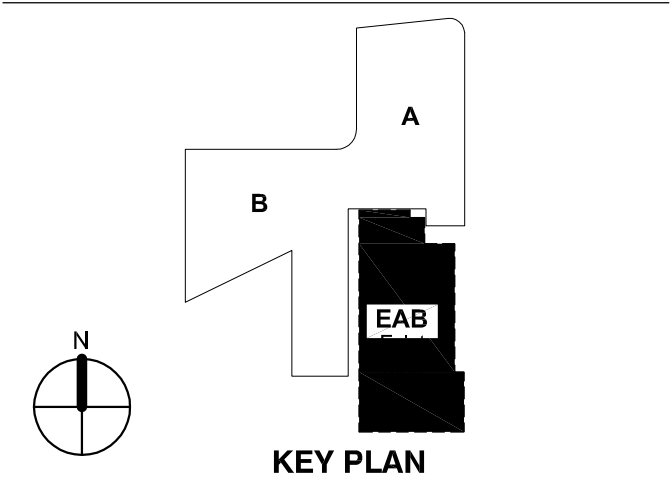
37 NEW SAMPLING MANHOLE, CONSTRUCT OVER EXISTING SEWER.

38 4" RETAINING WALL SUBDRAIN, PERFORATED WHEN ADJACENT TO WALL AND SOLID AT ALL
OTHER LOCATIONS. DAYLIGHT VIA BUBBLER.

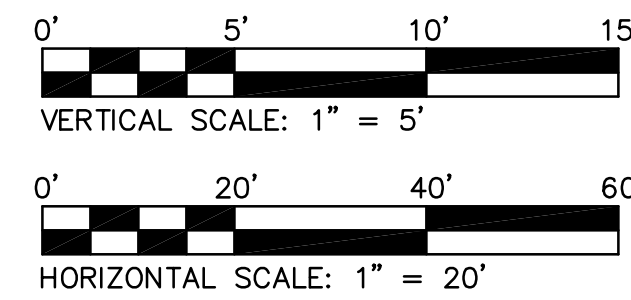
40 4" RETAINING WALL SUBDRAIN, PERFORATED WHEN ADJACENT TO WALL AND SOLID AT ALL
OTHER LOCATIONS. CONNECT TO BUILDING SUBDRAIN SYSTEM.



© C



- STORM SYSTEM LOCATION
1. MAIN STORM SEWER
 2. DOWNSPOUT LATERAL SYSTEM FOR EAB
 3. THRU BUILDING SYSTEM
 4. INLET 11
 5. PLAZA TRENCH DRAIN
 6. AREA WELL EAST SIDE OF ISB
 7. AREA WELL NORTH OF WEST WING



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MO Civil Cert of Authority # 001103
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd., Suite 100
St. Louis, MO 63143
314.991.2228

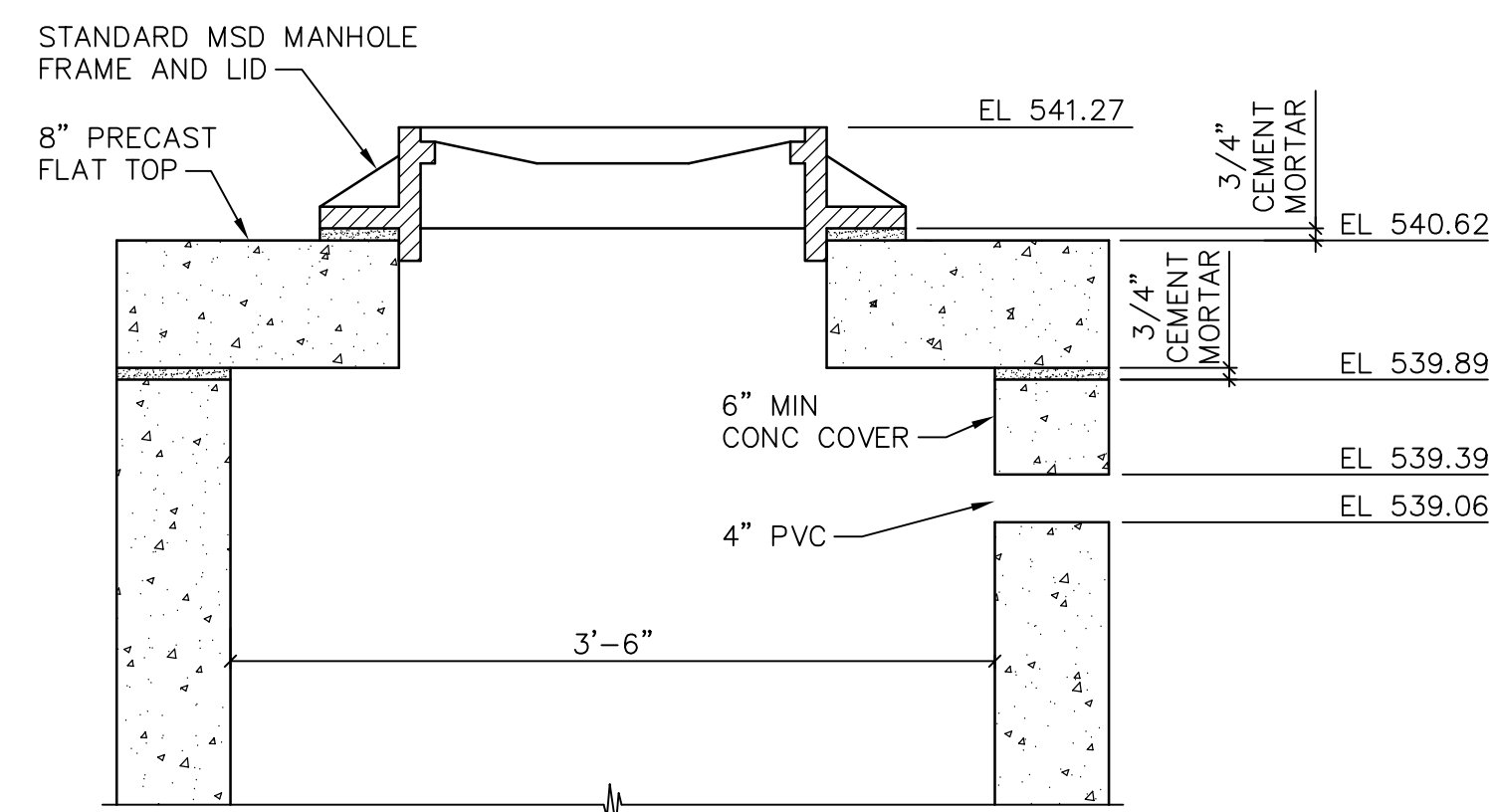
Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave
St. Louis, MO 63130
314.725.6616

KWA Architects
Architecture
9721 Litzinger Road
St. Louis, MO 63124
314.962.2560

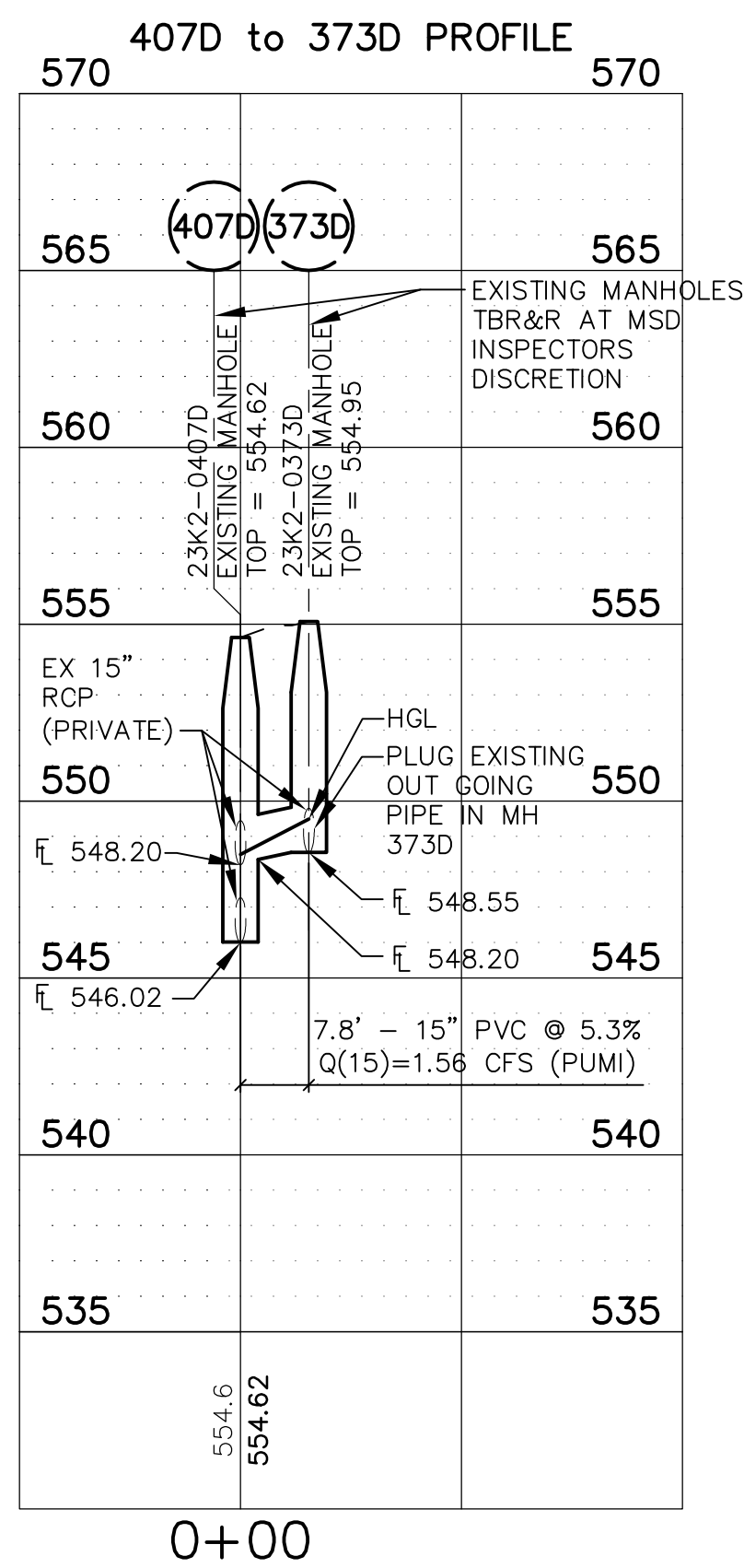
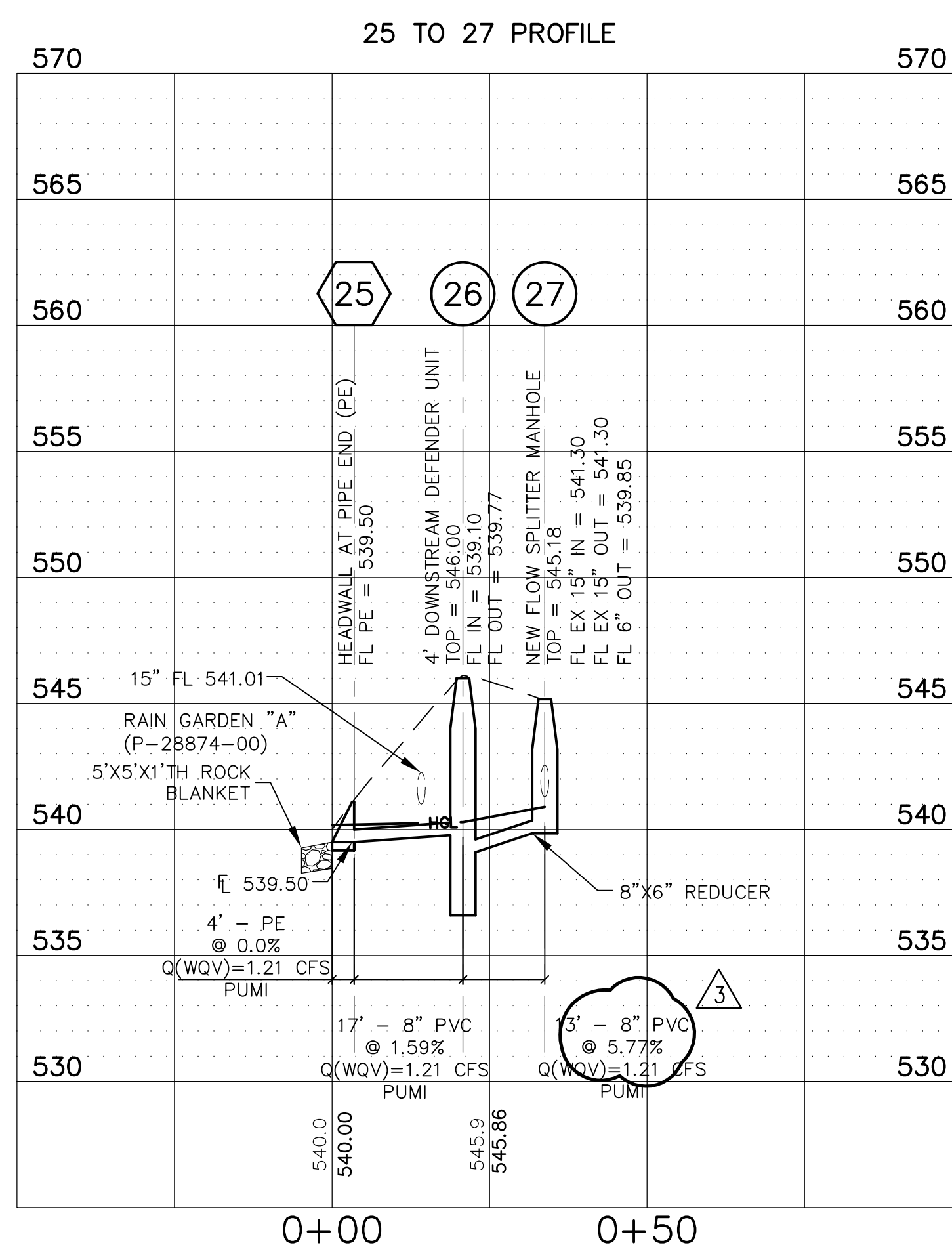
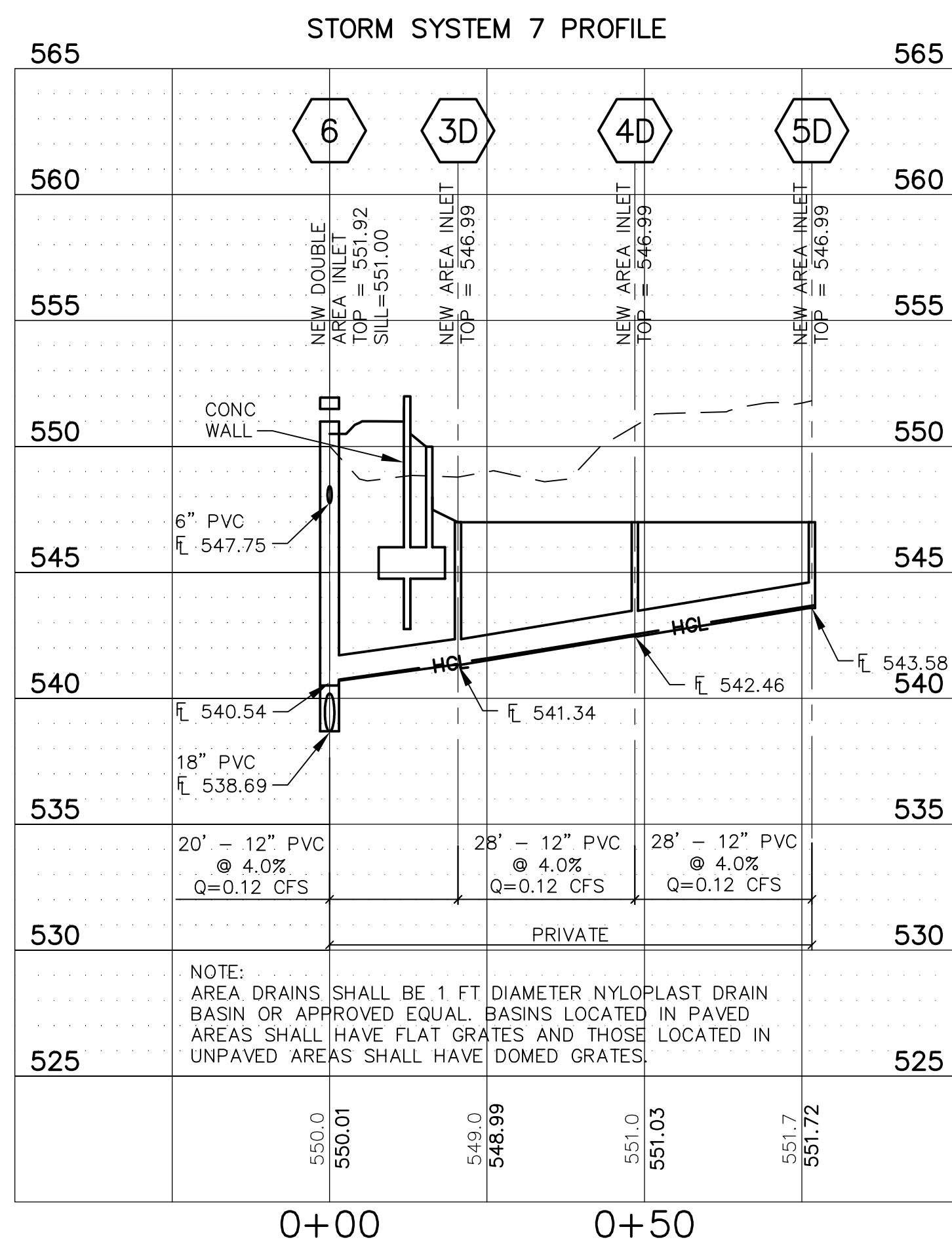
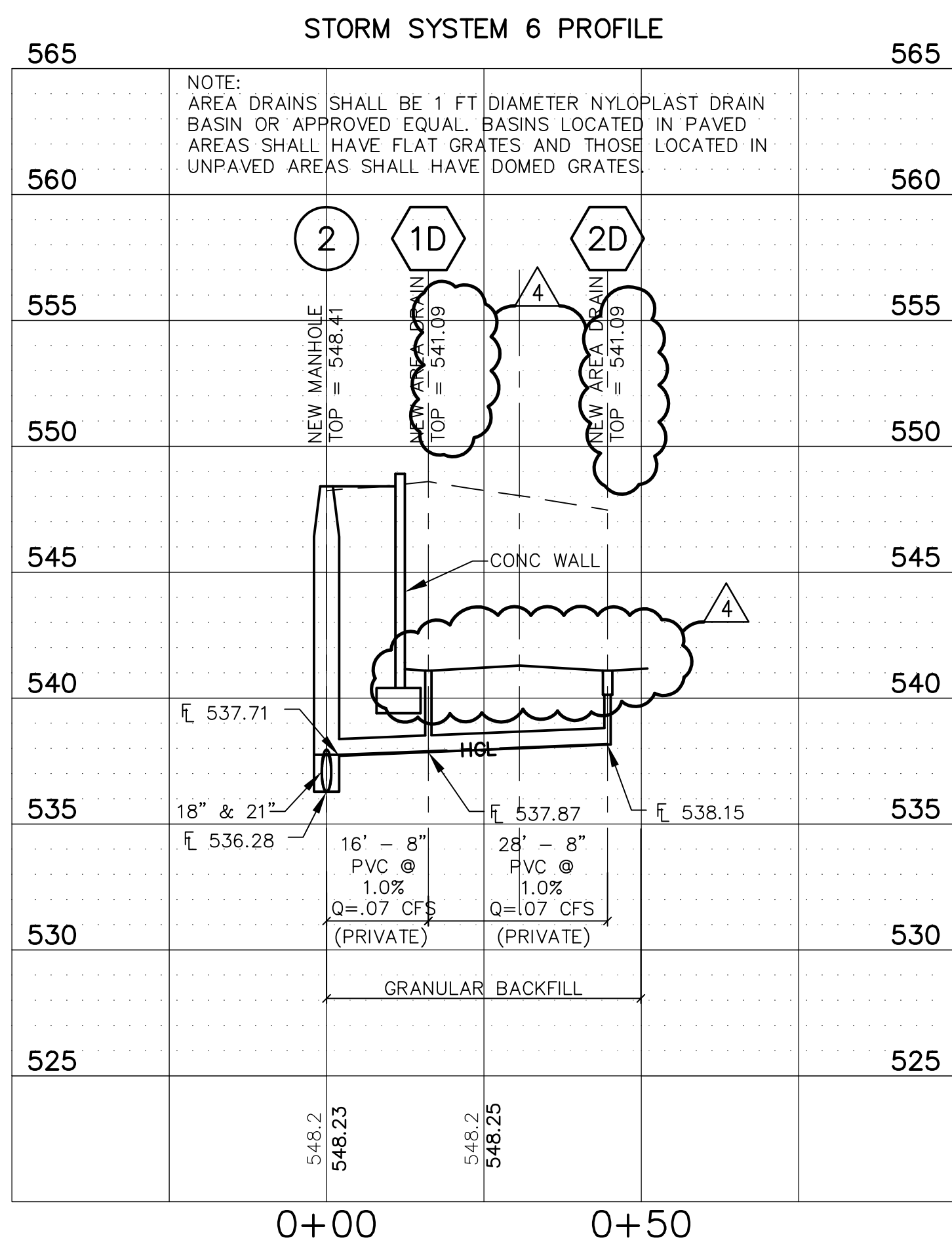
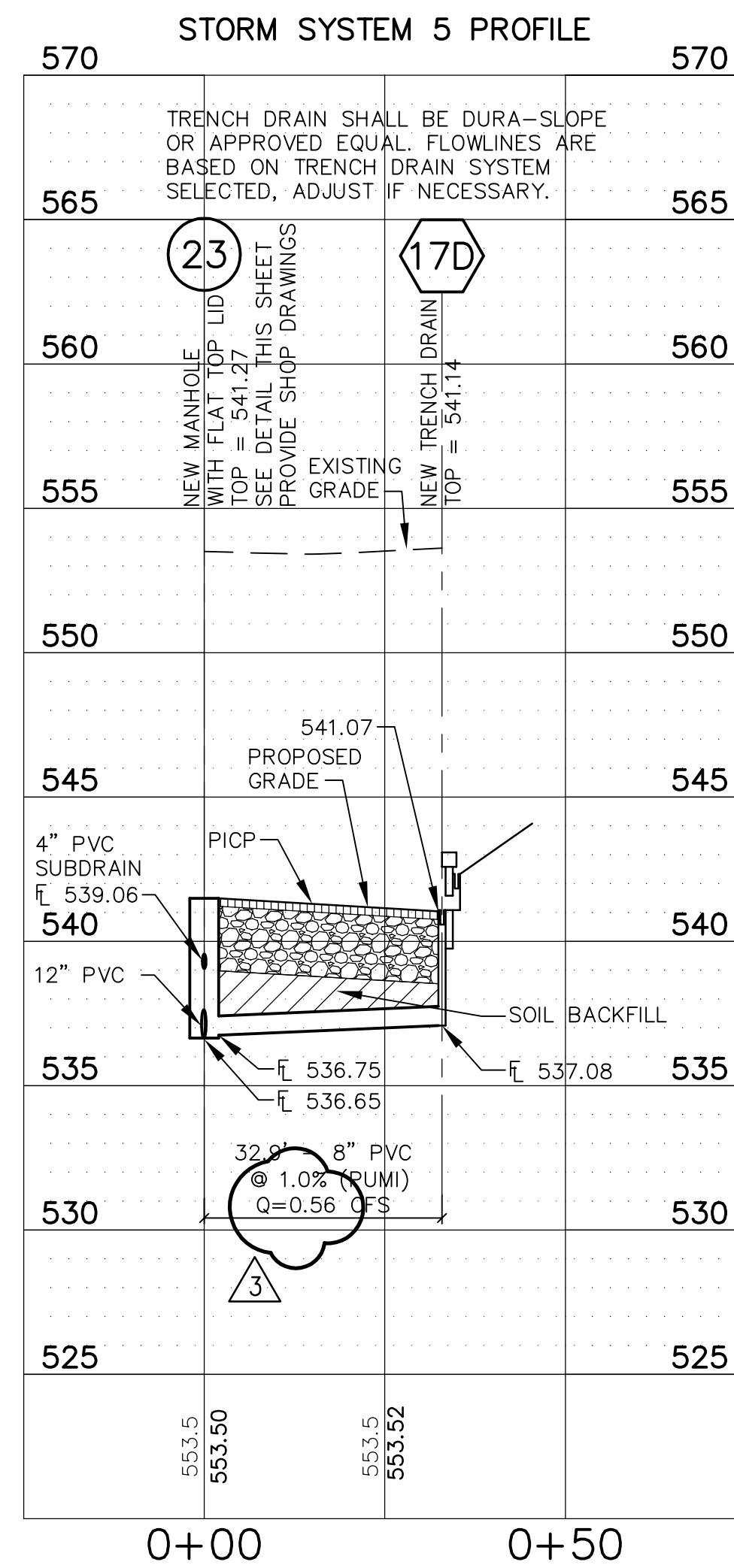
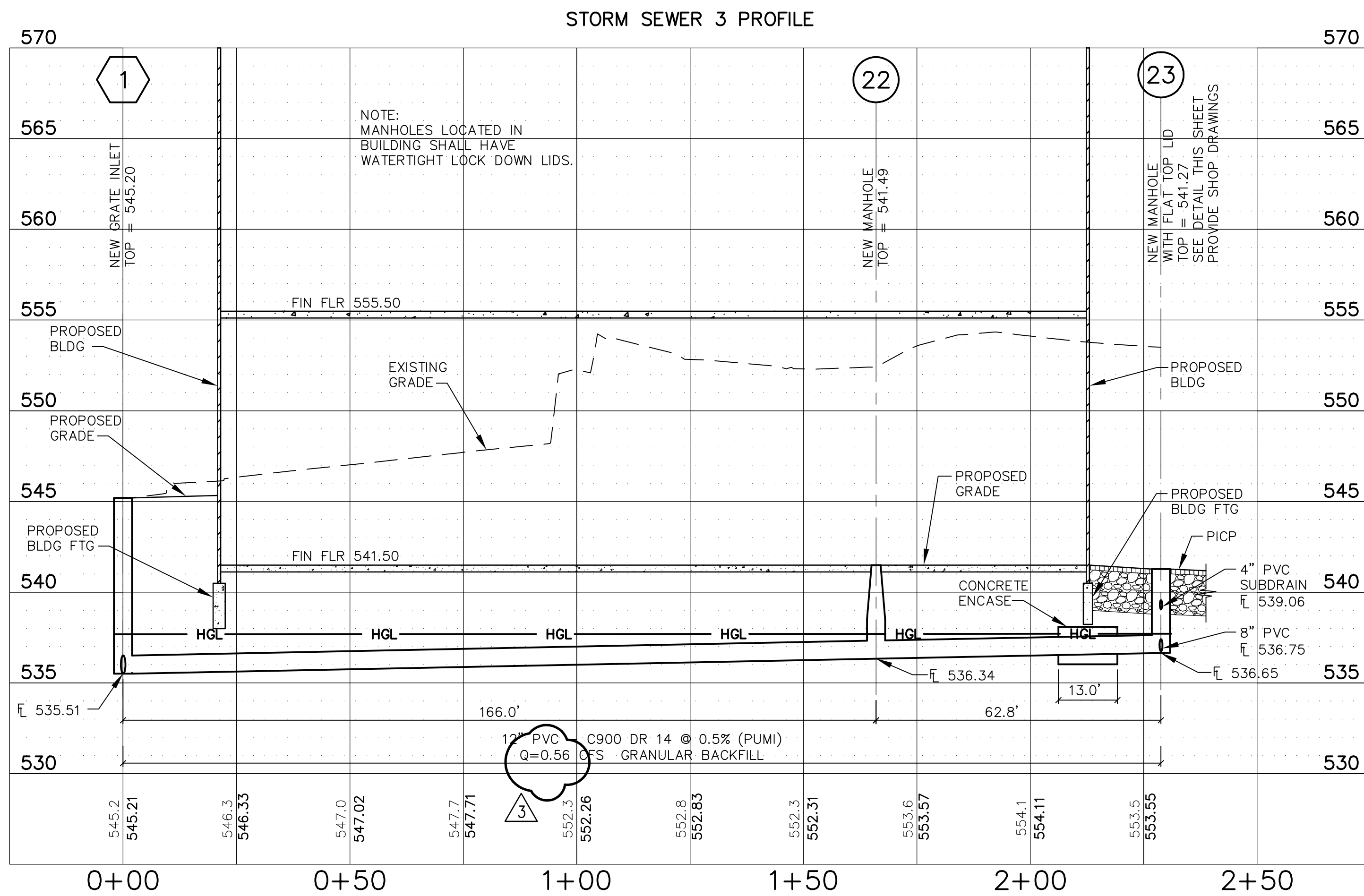
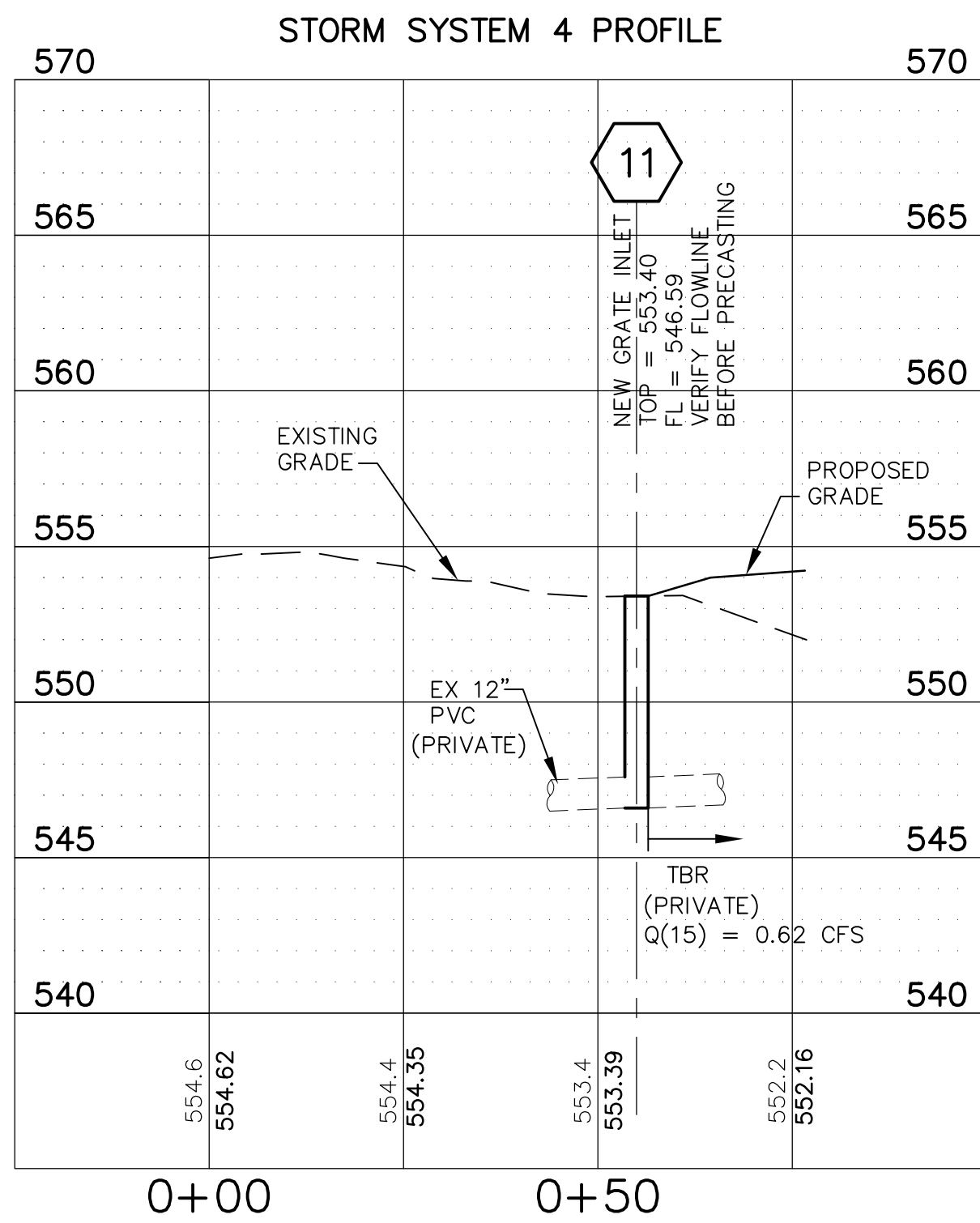
Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600



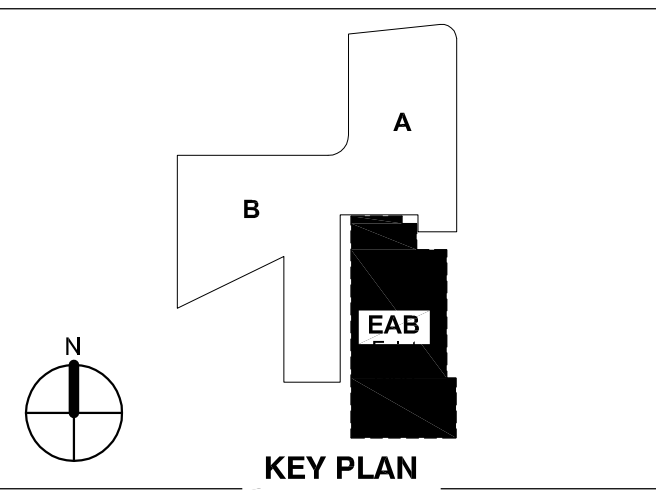
MANHOLE 23 TOP SECTION
N.T.S.



NOTE:
FLOWS (Q) AND HYDRAULIC GRADE LINE (HGL) INFORMATION ARE FOR 100 YEAR 20 MINUTE STORM EVENT EXCEPT AS NOTED.



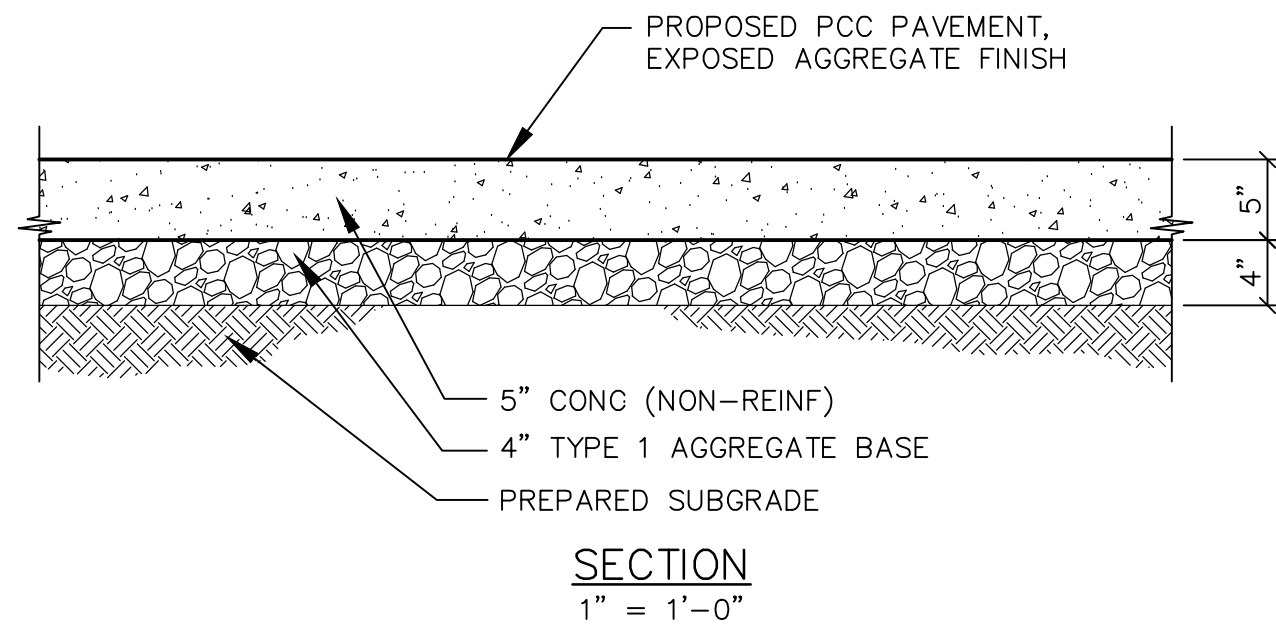
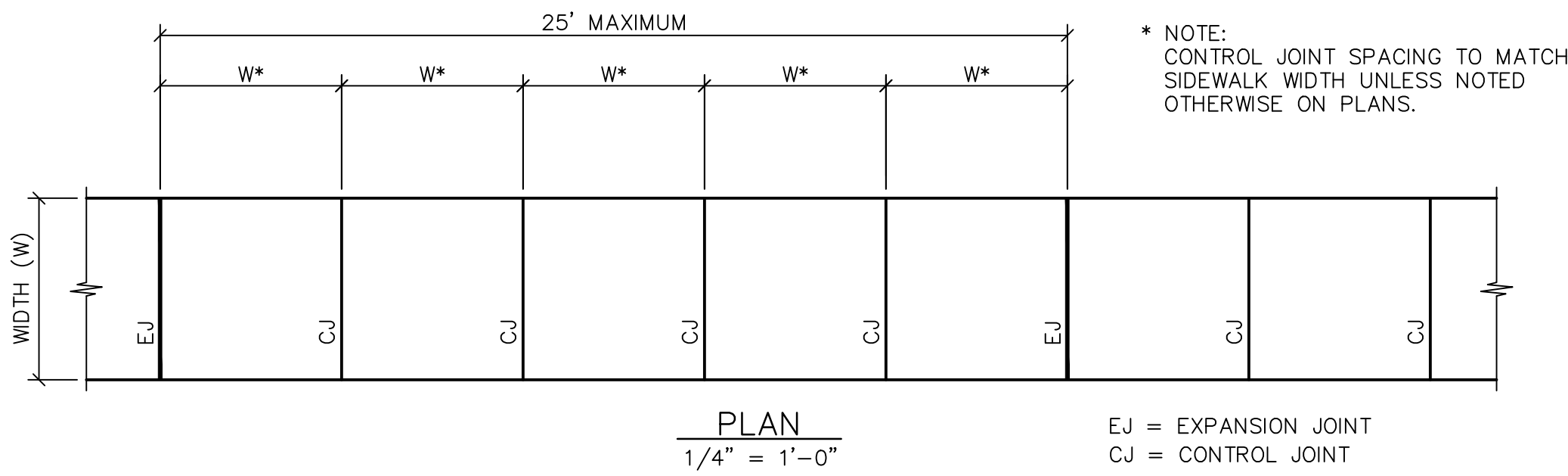
4	ASI 054	06 MAR 2017
3	ADDENDUM 1-12	16 JUN 2016
2	ADDENDUM 1-10	5 MAY 2016
1	ADDENDUM 1-1	29 JAN 2016
-	ISSUED FOR CONSTRUCTION (BP1)	15 JAN 2016



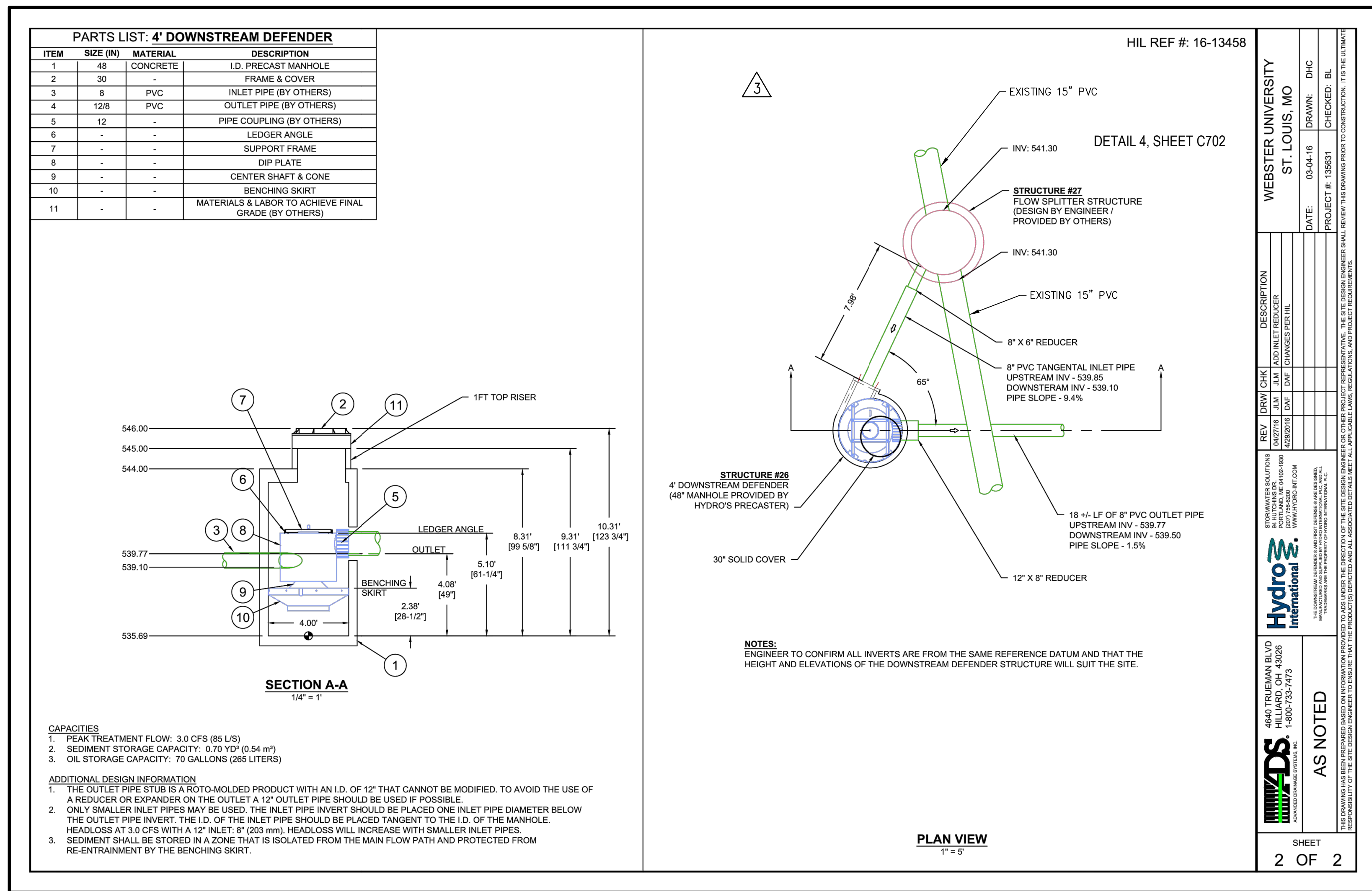
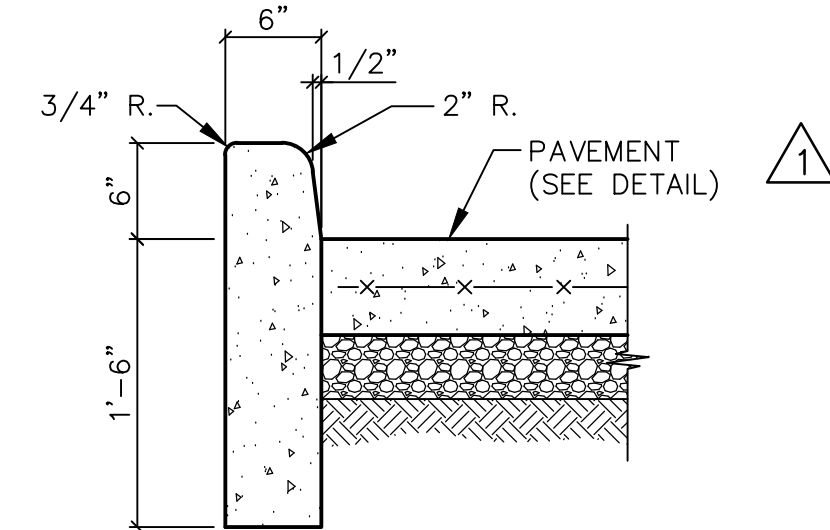
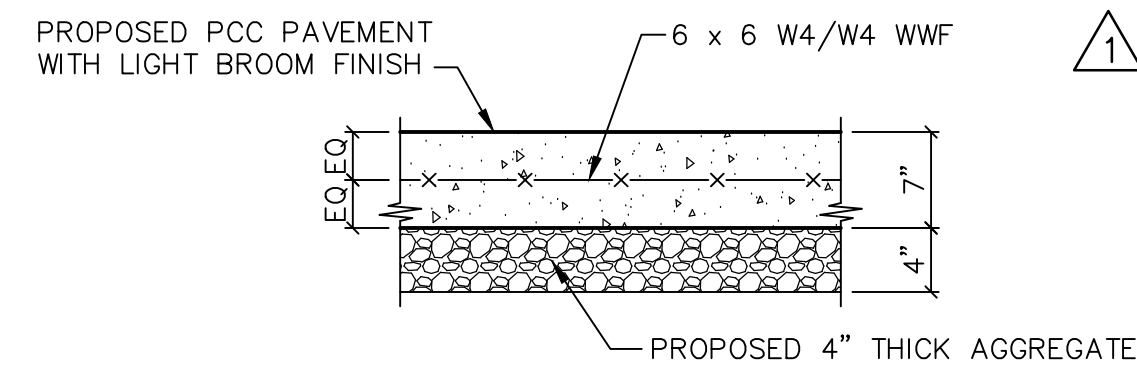
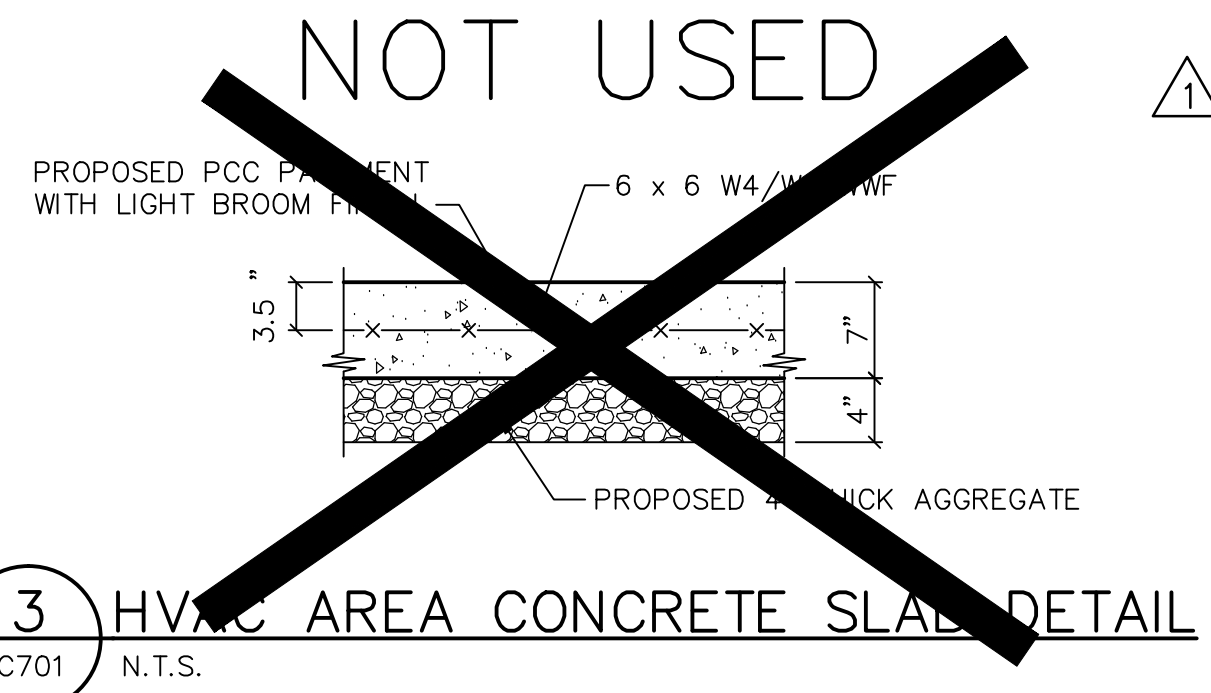
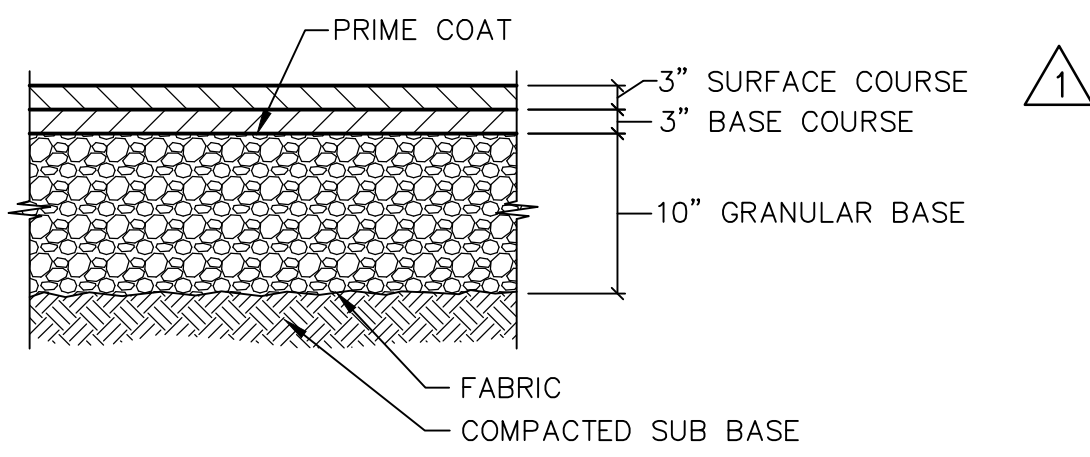
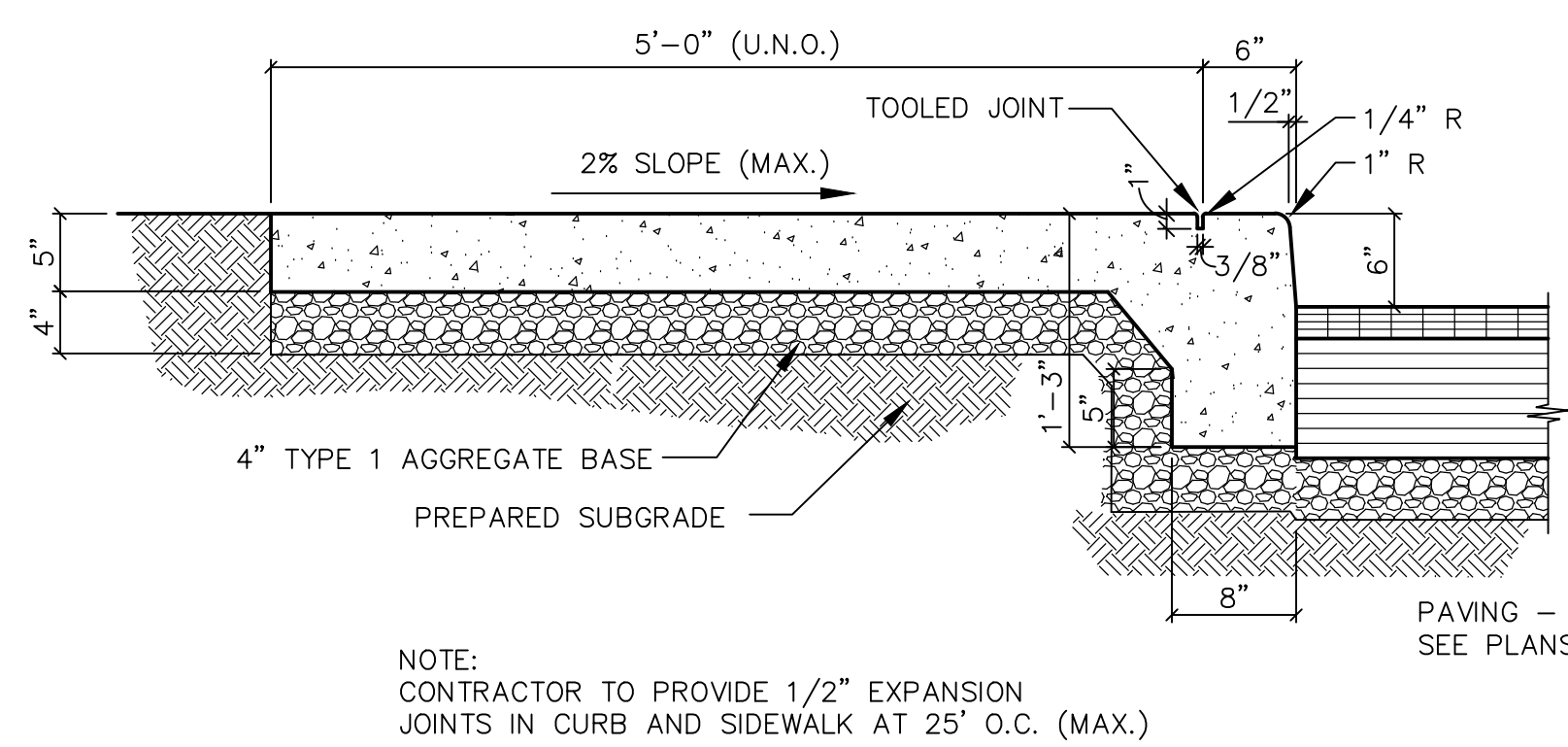
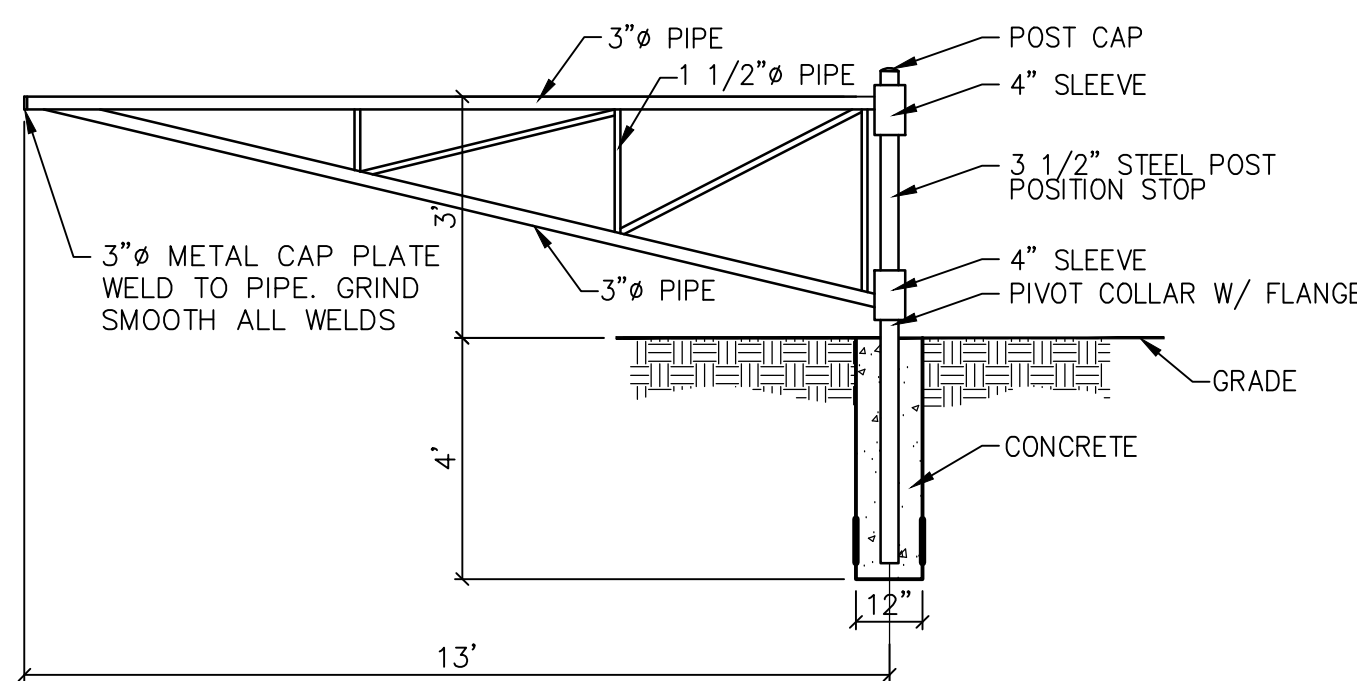
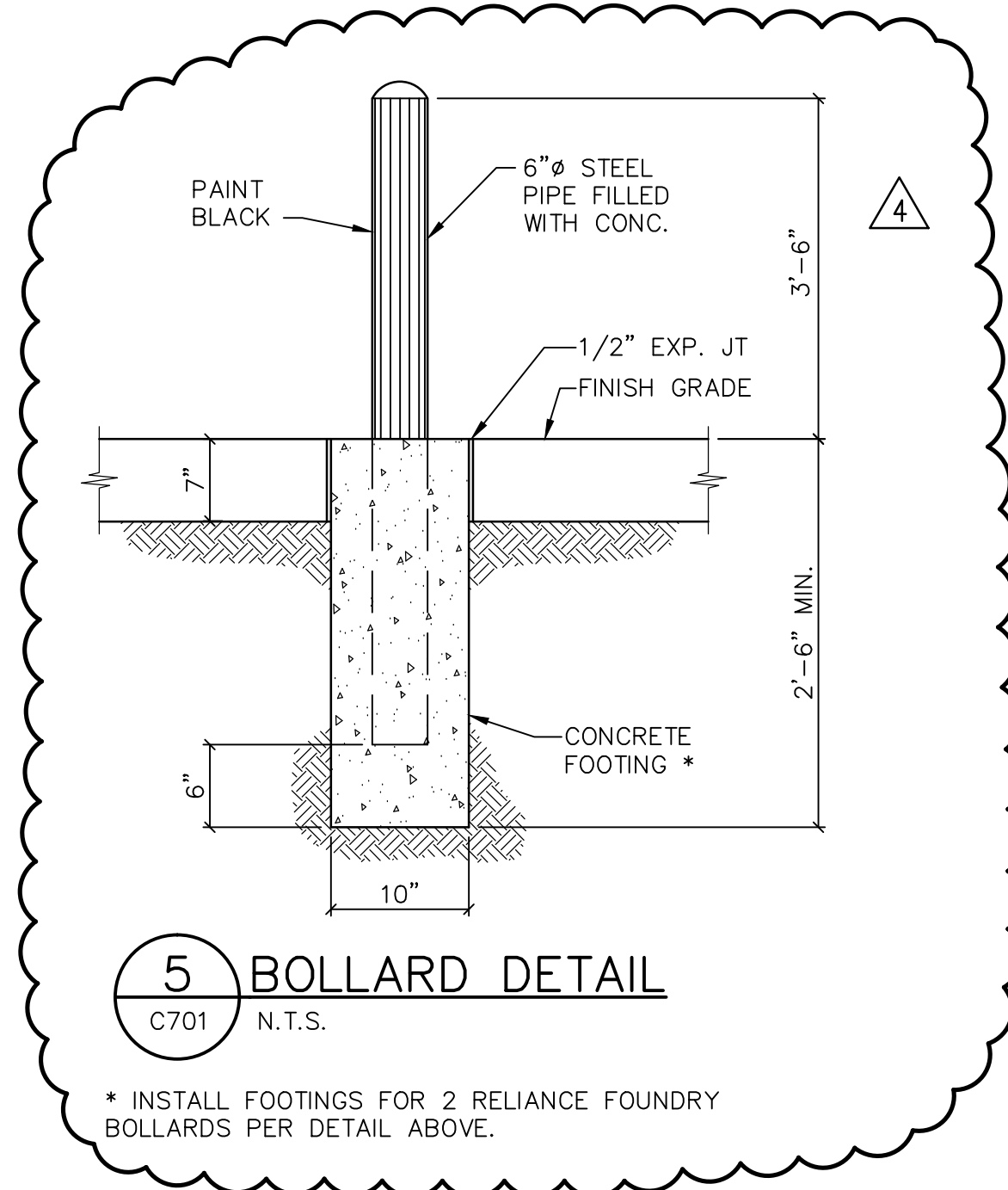
SEWER PROFILES

Project No.: 04561.00 Checked by:

C601



1 WALK CONCRETE SLAB DETAIL
C701 N.T.S.



10 48\"/>

CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS TO BE APPROVED BY THE PROJECT ENGINEER & MSD CONTACT MSD AT 314-335-2072.

DETAILS SHOWN FOR PRIVATE CONSTRUCTION ONLY. REFER TO MSD SPECIFICATIONS AND DETAILS FOR PUBLIC SEWER AND PRIVATE UNDER MSD INSPECTION SEWER CONSTRUCTION.