

**GRADING AND PUBLIC WORKS NOTES:**

- ALL WORK DETAILED ON THE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PARTS 2 THROUGH 6 OF THE LATEST EDITION (2012) AND SUPPLEMENTS OF "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK). SPECIFICATIONS FOR CONSTRUCTION ACTIVITIES PROVIDED IN THE PROJECT MANUAL SHALL SUPERSEDE GREENBOOK SPECIFICATIONS. IT IS THE DISTRICT'S INTENT THAT ANY REFERENCE TO THE GREENBOOK APPLY ONLY TO THE TECHNICAL REQUIREMENTS. IN THE CASE OF A CONFLICT BETWEEN THE GREENBOOK AND THE DISTRICT'S GENERAL CONDITIONS AND REQUIREMENTS, THE DISTRICT'S GENERAL CONDITIONS AND REQUIREMENTS SHALL GOVERN.
- THE GRADING PLAN, WHEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT, SHALL BE ON THE WORK SITE AT ALL TIMES.
- ALL CONCENTRATED DRAINAGE MUST BE CONDUCTED TO THE STREET IN APPROVED NON-EROSIVE DEVICES OR TO EXISTING STORM DRAIN SYSTEM.
- STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
- ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES.
- SUBGRADE AT THE BOTTOM OF EXCAVATION AND ALL FILL MATERIAL SHALL BE COMPACTED TO NO LESS THAN 90% OF MAXIMUM DENSITY AS DETERMINED BY THE NINYO & MOORE GEOTECHNICAL REPORT DATED AUGUST 2018.
- ALL CUT OR FILL SLOPES SHALL BE GRADED NOT STEEPER THAN 2:1.
- IF AT ANY TIME DURING GRADING OPERATIONS ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
- TEMPORARY EROSION CONTROL PROCEDURES SHALL BE INSTALLED BETWEEN OCTOBER 1 THROUGH MAY 1.
- CONTRACTOR MUST CONTACT DIG ALERT PRIOR TO ANY WORK.

**SPECIFICATIONS FOR COMPACTED FILL**

PREPARATION

THE EXISTING FILL SHALL BE REMOVED UNDER THE OBSERVATION OF THE SOILS ENGINEER TO EXPOSE SUBGRADE COMPETENT TO SUPPORT THE ENGINEERED FILL. AFTER THE FOUNDATION FOR THE ENGINEERED FILL HAS BEEN EXPOSED, IT SHALL BE SCARIFIED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS. MOISTURE CONDITIONED WHERE NECESSARY AND COMPACTED, AS SPECIFIED IN THE GEOTECHNICAL REPORT, IN ACCORDANCE WITH ASTM D 1557-91.

MATERIALS

ON-SITE SOILS MAY BE USED FOR THE FILL, OR IMPORTED FILL MATERIALS SHALL CONSIST OF MATERIALS APPROVED BY THE SOILS ENGINEER, AND MAY BE OBTAINED FROM THE EXCAVATION OF BANKS, BORROW PITS OR ANY OTHER APPROVED SOURCE. THE MATERIALS USED SHALL BE FREE OF VEGETABLE MATTER AND OTHER DELETERIOUS SUBSTANCES AND SHALL NOT CONTAIN ROCKS OR LUMPS GREATER THAN SIX INCHES IN MAXIMUM DIMENSION.

PLACING, SPREADING AND COMPACTING FILL MATERIALS

- THE SELECTED FILL MATERIAL SHALL BE PLACED IN LAYERS WHICH WHEN COMPACTED SHALL NOT EXCEED SIX INCHES IN THICKNESS. EACH LAYER SHALL BE SPREAD EVENLY AND THOROUGHLY MIXED DURING THE SPREADING TO ATTAIN UNIFORMITY OF MATERIAL AND MOISTURE OF EACH LAYER.
- WHERE THE MOISTURE CONTENT OF THE FILL MATERIAL IS BELOW THE LIMITS SPECIFIED BY THE SOILS ENGINEER, WATER SHALL BE ADDED UNTIL THE MOISTURE CONTENT IS SATISFACTORY TO ATTAIN THOROUGH BONDING AND THOROUGH COMPACTION.
- WHERE THE MOISTURE CONTENT OF THE FILL MATERIAL IS ABOVE SATISFACTORY LIMITS, THE FILL MATERIALS SHALL BE AERATED, BLENDED OR DRIED BY OTHER METHODS UNTIL THE MOISTURE CONTENT IS SATISFACTORY.
- AFTER EACH LAYER HAS BEEN PLACED, MIXED AND SPREAD EVENLY IT SHALL BE COMPACTED AS SPECIFIED IN THE GEOTECHNICAL REPORT, IN ACCORDANCE WITH ASTM D 1557-91 OR OTHER DENSITY TESTS WHICH WILL ATAIN EQUIVALENT RESULTS. COMPACTION SHALL BE BY SHEEPSFOOT ROLLER, MULTI-WHEEL PNEUMATIC TIRE ROLLER OR OTHER TYPES OF ACCEPTABLE ROLLERS. COMPACTION EQUIPMENT SHALL BE OF SUCH DESIGN THAT THEY WILL BE ABLE TO COMPACT THE FILL TO THE SPECIFIED DENSITY. COMPACTION SHALL BE ACCOMPLISHED WHILE THE FILL MATERIAL CONTENT IS WITHIN THE COMPACTABLE RANGE. COMPACTION ON EACH LAYER SHALL BE ACCOMPLISHED BY COVERING THE ENTIRE AREA AND THE ROLLER SHALL MAKE SUFFICIENT TRIPS TO ATTAIN DESIRED DENSITY. THE FINAL SURFACE OF THE LOT AREAS TO RECEIVE SLABS-ON-GRADE SHALL BE ROLLED TO A DENSE, SMOOTH SURFACE.
- THE OUTSIDE OF ALL FILL SLOPES SHALL BE COMPACTED BY MEANS OF SHEEPSFOOT ROLLERS OR OTHER SUITABLE EQUIPMENT. COMPACTION OPERATIONS SHALL BE CONTINUED UNTIL THE OUTER FACE OF THE SLOPE IS AT LEAST 90% COMPACTED. COMPACTING OF THE SLOPES SHALL BE DONE PROGRESSIVELY IN INCREMENTS NOT TO EXCEED 4.0 FEET AS THE FILL IS BROUGHT TO GRADE.
- FIELD DENSITY TESTS SHALL BE MADE BY THE SOILS ENGINEER OF THE COMPACTION OF EACH LAYER OF FILL. DENSITY TESTS SHALL BE MADE AT INTERVALS NOT TO EXCEED TWO FEET OF FILL HEIGHT PROVIDED ALL LAYERS ARE TESTED. WHERE THE SHEEPSFOOT ROLLERS ARE USED, THE SOILS MAY BE DISTURBED TO A DEPTH OF SEVERAL INCHES AND DENSITY READINGS SHALL BE TAKEN IN THE COMPACTED MATERIAL BELOW THE DISTURBED SURFACE. WHEN THESE READINGS INDICATE THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED UNTIL THE REQUIRED DENSITY HAS BEEN OBTAINED.

OBSERVATION

OBSERVATION BY THE SOILS ENGINEER SHALL BE MADE DURING ALL FILLING AND COMPACTING OPERATIONS SO THAT HE CAN VERIFY THAT THE ENGINEERED FILL WAS CONSISTENT, COMPETENT AND IN COMPLIANCE WITH THE RECOMMENDATIONS.

SEASONAL LIMITATIONS

NO FILL MATERIALS SHALL BE PLACED, SPREAD OR ROLLED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN WORK IS INTERRUPTED BY HEAVY RAINS, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL THE FIELD TESTS BY THE SOILS ENGINEER INDICATE THAT THE MOISTURE CONTENT AND DENSITY OF THE FILL ARE AS PREVIOUSLY SPECIFIED.

**NOTICE TO CONTRACTORS:**

- PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING AND DRAINAGE WORK. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
- THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS, AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
- SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE EXECUTIVE ENGINEER BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER.
- ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS.
- THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS OR SUBCONTRACTORS COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR OR WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS.

**AIR QUALITY NOTES:**

- GROUND WATERING TO CONTROL DUST SHALL BE REQUIRED DURING CONSTRUCTION, PURSUANT TO SCAGMD RULE 403.
- ALL CLEARING, EARTH MOVING OR EXCAVATION ACTIVITIES SHALL CEASE DURING PERIODS WHEN WINDS EXCEED 15 MILES PER HOUR.
- MATERIALS SUCH AS OIL-BASED ARCHITECTURAL COATINGS, PAINTS AND ASPHALT USED IN CONSTRUCTION SHALL BE CONTROLLED ACCORDING TO SCAGMD REGULATIONS.
- ALL MATERIALS TAKEN OFF-SITE SHALL BE EITHER SUFFICIENTLY WATERED OR SECURELY COVERED TO PREVENT EXCESSIVE AMOUNTS OF DUST.
- ON-SITE VEHICLE SPEED SHALL BE POSTED AT 15 MILES PER HOUR.
- STREETS ADJACENT TO THE SITE SHALL BE SWEEPED AS NEEDED TO REMOVE SILT WHICH MAY HAVE ACCUMULATED FROM CONSTRUCTION ACTIVITIES.
- ENGINES MUST BE MAINTAINED IN GOOD CONDITION ACCORDING TO MANUFACTURER'S SPECIFICATIONS. BOTH GRADING AND CONSTRUCTION ACTIVITIES ARE TO BE SCHEDULED TO EVEN OUT EMISSION PEAKS.
- GRADING OPERATIONS SHALL BE SUSPENDED DURING SECOND STAGE SMOG ALERTS.
- THE SITE SHALL BE FENCED TO REDUCE WIND-BLOWN DUST. CONSTRUCTION MATERIALS NOT STORED BEHIND THE TEMPORARY FENCES SHALL BE COVERED. ALL STORED SOIL AND SAND SHALL BE COVERED OR TREATED WITH SOIL BINDERS, WHETHER INSIDE OR OUTSIDE THE TEMPORARY WALL. ALL DEBRIS SHALL BE CLEANED UP DAILY AND PUT IN A DUMPSTER WHICH SHALL HAVE A LID AND THE LID SHALL BE SECURED AT THE END OF THE DAY.

**GENERAL UTILITY NOTES**

- ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE.
- INSTALLATION AND TESTING OF FIRE SERVICE LINE SHALL BE PER NFPA. FIRE DEPARTMENT IS TO WITNESS HYDROSTATIC TEST (8-9.3) AND FLUSH OF THE SYSTEM (8-9).
- INSTALLATION OF PIPES IN TRENCHES SHALL BE IN ACCORDANCE WITH SECTION 306 OF THE STANDARD SPECIFICATIONS.
- DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE SHOWN.
- ALL WATER LINE FITTINGS SHALL BE MECHANICAL JOINTS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR MAY VARY THE GRADE AND/OR ALIGNMENT OF THE WATER LINE IF FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL OF THE ENGINEER.
- CONTRACTOR TO PROTECT IN PLACE OR ADJUST WHERE NECESSARY ALL EXISTING UTILITY LINES, WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, THAT LAY WITHIN THE LIMITS OF THE NEW CONSTRUCTION, AND ARE NOT SPECIFICALLY MARKED TO BE REMOVED OR ABANDONED.
- ALL CASES WHERE EXISTING UTILITY LINES HAVE SUBSTANDARD COVER DEPTH AND LAY WITHIN THE LIMITS OF THE NEW CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED TO THE SATISFACTION OF THE INSPECTOR.
- EXISTING UTILITIES MUST REMAIN OPERATIONAL AT ALL TIMES. DURING UTILITY RELOCATIONS, THE WATER AND IRRIGATION LINES SHALL BE PHASED AS SHOWN ON THE PHASING PLAN. CONTRACTOR SHALL PROVIDE THE MEANS OF MAINTAINING OPERATION OF THESE LINES DURING THE ENTIRE PHASED INSTALLATION.

**LIST OF CALIFORNIA CODE OF REGULATIONS**

APPLICABLE CODES AS OF MARCH, 2019

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.  
 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.  
 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.  
 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.  
 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.  
 2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.  
 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.  
 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

**GEOTECHNICAL NOTES**

SEE GEOTECHNICAL EVALUATION REPORT, PROJECT # 210715001, DATED AUGUST 31, 2018, PREPARED BY NINYO & MOORE.



**VICINITY MAP**

**INDEX OF SHEETS**

SHEET INDEX	
NO.	TITLE
C0-0.1	TITLE SHEET
C0-1.1	EXISTING CONDITION
C1-1.1	SITE DEMOLITION
C2-1.1	HORIZONTAL STRIPING AND SIGNAGE PLAN
C3-1.1	PAVING, GRADING AND DRAINAGE PLAN
C3-1.2	GRADING DETAILS
C4-1.1	UTILITY DEMOLITION PLAN
C4-1.2	CIVIL UTILITY PLAN
C5-1.1	STORM WATER TREATMENT DEVICE
C5-1.2	STORM WATER TREATMENT DEVICE
C6-1.3	STORM WATER TREATMENT DEVICE
C6-1.1	CONSTRUCTION DETAILS
C6-1.2	CONSTRUCTION DETAILS

**LEGEND**

—506.20—	CONTOUR EXISTING	CF	CURB FACE
—507.80—	CONTOUR PROPOSED	EL	ELEVATION
(506.20)	ELEVATION EXISTING	FL	FLOW LINE
507.80	ELEVATION PROPOSED	FS	FINISHED SURFACE
-x-x-x-	FENCE CHAIN LINK	FG	FINISHED GRADE
- - -	FLOW ARROW	TC	TOP OF CURB
- - -	RETAINING WALL	TW	TOP OF WALL
- - -	CENTERLINE	TG	TOP OF GRATE
- - -	SAWCUT	INV	INVERT
- - -E- - -	EXISTING ELECTRICAL	FF	FINISHED FLOOR
- - -G- - -	EXISTING GAS LINE	AC	ASPHALT CONCRETE
- - -SD- - -	EXISTING STORM DRAIN	CB	CATCH BASIN
- - -T- - -	EXISTING TELEPHONE LINE	BW	BACK OF WALK
- - -SS- - -	EXISTING SANITARY SEWER	HP	HIGH POINT
- - -W- - -	EXISTING WATER	LP	LOW POINT
—CATV—	PROPOSED CABLE TV	MAX	MAXIMUM
—E—	PROPOSED ELECTRICAL	MIN	MINIMUM
—FW—	PROPOSED FIRE WATER LINE	GB	GRADE BREAK
—SD—	PROPOSED STORM DRAIN	LIP	LIP OF GUTTER
—SS—	PROPOSED SANITARY SEWER	EP	EDGE OF PAVEMENT
—W—	PROPOSED WATER	PVMT	PAVEMENT
CL	CENTER LINE	RD	ROOF DRAIN
P/L	PROPERTY LINE	RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY	SD	STORM DRAIN
EX. EXIST	EXISTING	PP	POWER POLE
PROP	PROPOSED	SL	STREET LIGHT
SS	SANITARY SEWER	TS	TRAFFIC SIGNAL
MH	MANHOLE	PB	PULL BOX
CO	CLEAN OUT	CLF	CHAIN LINK FENCE
POC	POINT OF CONNECTION	PVC	POLYVINYL CHLORIDE
WV	WATER VALVE	C.I.	CAST IRON
WM	WATER METER	LT	LEFT
FH	FIRE HYDRANT	RT	RIGHT
U.VLT	UTILITY VAULT	AD	AREA DRAIN
CD	CURB DRAIN		
DIP	DUCTILE IRON PIPE		
BC	BEGINNING OF CURVE		
EC	END OF CURVE		

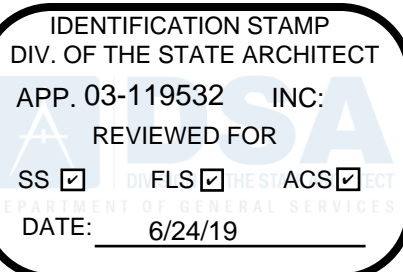
\* NOTE:

ALL OTHER ABBREVIATIONS ARE DEFINED IN SECTION 1-3.2 OF THE "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

**BENCHMARK**

COUNTY OF VENTURA RV 30  
 0.3 MILE NORTHWEST ALONG THE SOUTHERN PACIFIC RAILROAD FROM THE STATION AT FILLMORE, AT THE CROSSING OF "A" ST., 42.3 FEET EAST OF THE NORTHEAST RAIL OF THE MAIN TRACK, IN THE TOP OF THE WEST CURB OF THE STREET, 1.0 FOOT NORTH OF THE SOUTH END OF THE CURB, 17.3 FEET SOUTH OF THE CENTER OF A FIRE HYDRANT 21 FEET WEST OF THE CENTERLINE OF THE STREET AND 1/2 FOOT HIGHER THAN THE STREET.

ELEV. 458.424 FEET ADJUSTMENT NGS 1995 - NORTH RIDGE ADJ. 1995



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JEREMY A. JOHNSON REC # C71475 DATE

**FILLMORE HIGH SCHOOL - NEW CTE BUILDINGS**  
**FILLMORE UNIFIED SCHOOL DISTRICT**  
 555 Central Ave. Fillmore, CA. 93015

ISSUED FOR: SCHEMATIC DESIGN	11/16/2017
DESIGN DEVELOPMENT	09/11/2018
CONSTRUCTION DOCUMENTS	12/07/2018
50% CD	11/09/2018
95% CD	12/10/2018
DSA SUBMITTAL	12/21/2018
DSA BACKCHECK	5/08/2019

REVISIONS:


REGISTRATION SIGNATURE:

SHEET TITLE:

**TITLE SHEET**

SHEET NUMBER:

**C0-0.1**

WD PROJ #	DRAWN BY:	CHECKED	DATE
18413	YL	JJ	5/08/2019

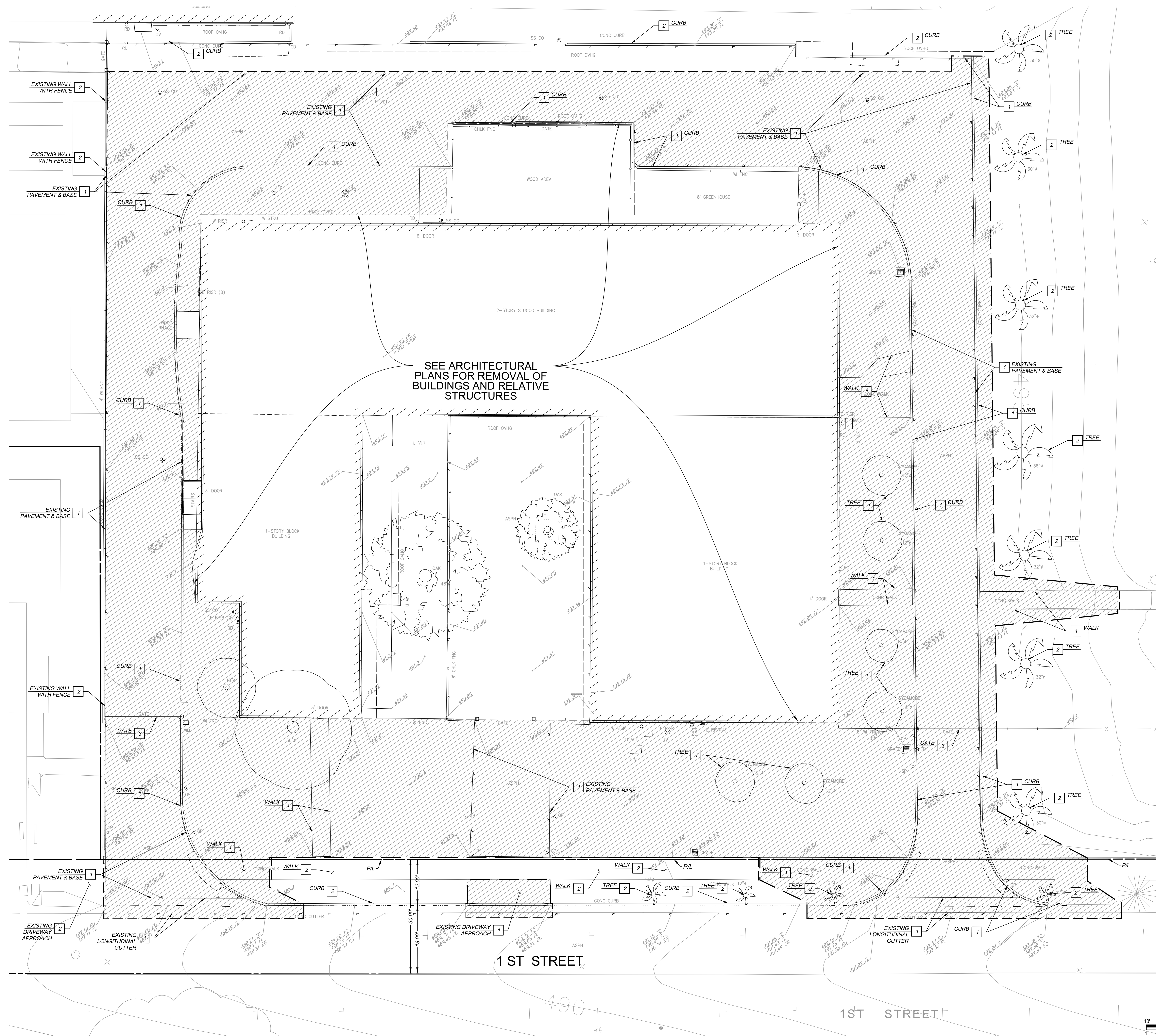
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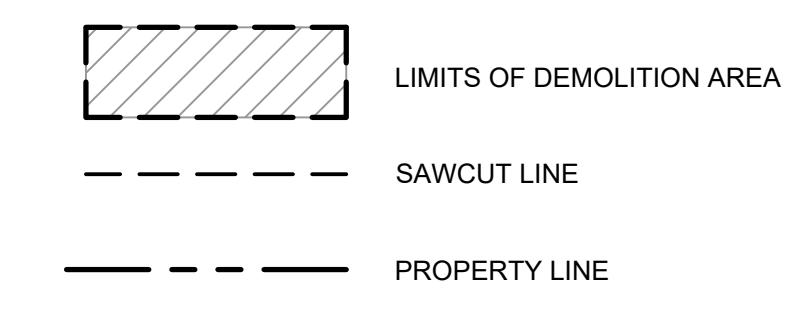




**DEMOLITION NOTES**

- 1 REMOVE EXISTING
- 2 PROTECT IN PLACE
- 3 REMOVE AND RECONSTRUCT

**LEGEND**



**GENERAL NOTES:**

1. WITHIN DEMOLITION AREA, REMOVE ALL TREES, ROOTS, SHRUBS, STRUCTURES, RETAINING WALLS, WALL FOOTINGS, FENCING, STRUCTURAL FOUNDATIONS, PAVED PATHS AND STAIRS, CONCRETE PAVEMENT, ASPHALT PAVEMENT, CURBS, GUTTERS, GROUND COVER, AND ANY EXISTING IMPROVEMENTS NOT SPECIFICALLY NOTED TO REMAIN. REMOVE ALL MISCELLANEOUS TRASH FROM SITE. FILL ALL EXCAVATIONS WHERE DEMOLITION HAS OCCURRED, AND ROUGH GRADE SITE TO MATCH SURROUNDING GRADES.
2. UNLESS OTHERWISE NOTED, ALL EXISTING UNDERGROUND UTILITIES AND ASSOCIATED STRUCTURES SHALL BE PROTECTED IN PLACE. CONTRACTOR TO CONFIRM LOCATION OF EXISTING UNDERGROUND UTILITIES TO REMAIN AND PROTECT IN PLACE.
3. REFER TO MECHANICAL, ELECTRICAL AND TELECOMMUNICATION PLANS FOR DEMOLITION OF M, E, & T UTILITIES AND STRUCTURES.
4. DEMO ALL PLANTING UNLESS OTHERWISE NOTED ON LANDSCAPE PLAN.
5. SHOULD ANY EXISTING UTILITIES NOT SHOWN HEREON BE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO DEMOLITION OR CONSTRUCTION.
6. REFER TO ARCHITECTURAL DEMOLITION PLAN, DRAWING A0-1.1, FOR ADDITIONAL INFORMATION.
7. CIVIL UTILITY UNDERGROUND DEMOLITION, SEE SHEET C4-1.1

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 DATE: 6/24/19



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JEREMY A. JOHNSON RCE # C71475 DATE

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**FILLMORE UNIFIED SCHOOL DISTRICT**  
 555 Central Ave. Fillmore, CA. 93015

ISSUED FOR:	11/18/2017
SCHEMATIC DESIGN	09/12/2018
DESIGN DEVELOPMENT	12/07/2018
CONSTRUCTION DOCUMENTS	11/09/2018
90% CD	12/10/2018
95% CD	12/21/2018
DSA SUBMITTAL	5/08/2019
DSA BACKCHECK	

REVISIONS:

REGISTRATION SIGNATURE:

SHEET TITLE:

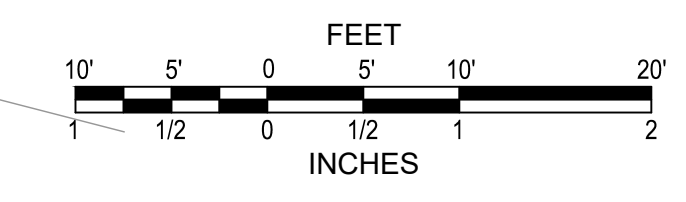
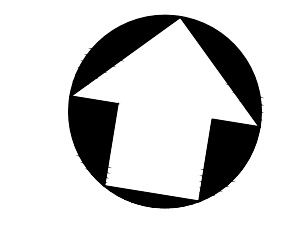
**SITE DEMOLITION**

SHEET NUMBER:

**C1-1.1**

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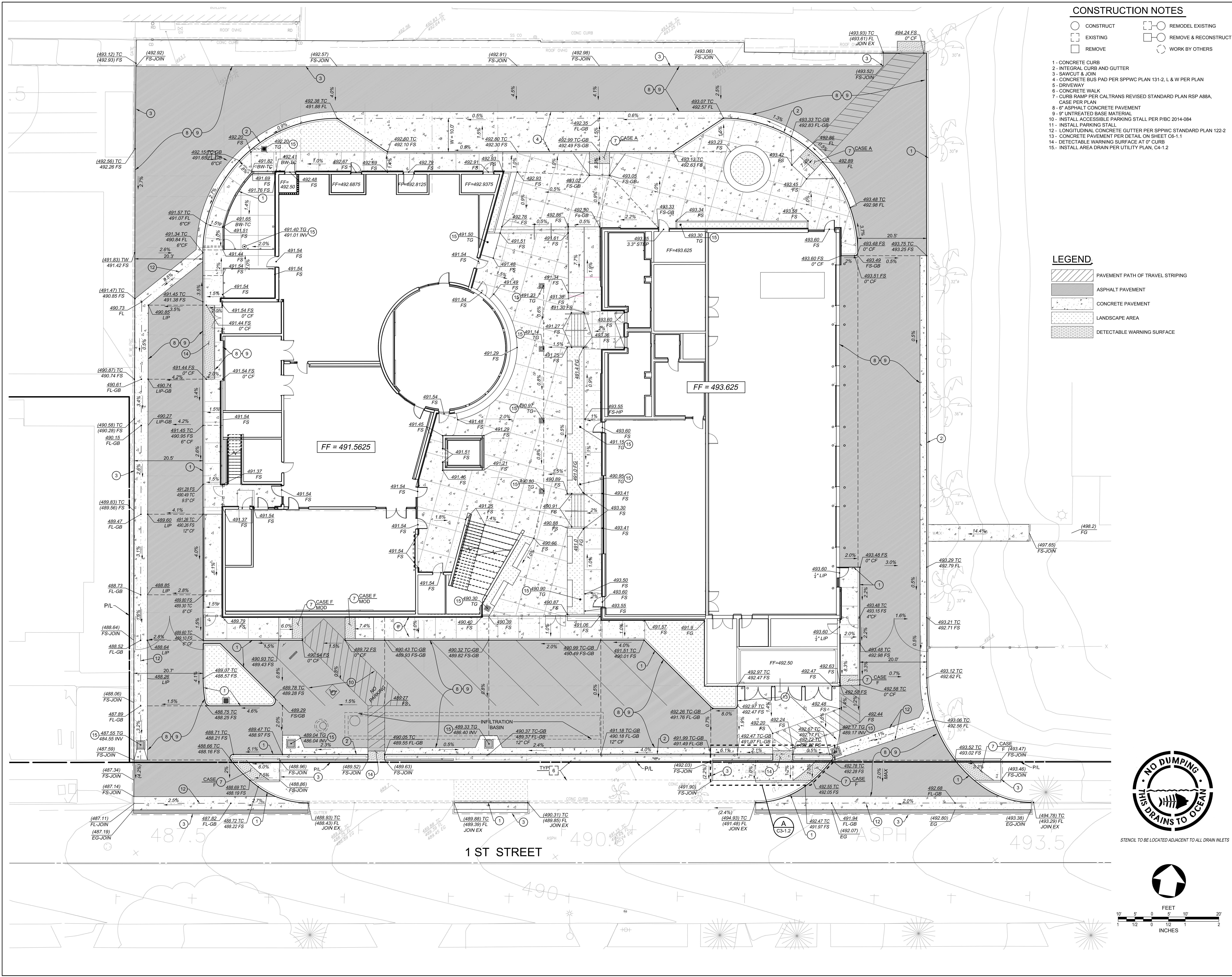


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**CONSTRUCTION NOTES**

- CONSTRUCT
  - EXISTING
  - REMOVE
  - REMODEL EXISTING
  - REMOVE & RECONSTRUCT
  - WORK BY OTHERS
- 1 - CONCRETE CURB
  - 2 - INTEGRAL CURBS AND GUTTER
  - 3 - SAWCUT & JOIN
  - 4 - CONCRETE BUS PAD PER SPPWC PLAN 131-2, L & W PER PLAN
  - 5 - DRIVEWAY
  - 6 - CONCRETE WALK
  - 7 - CURB RAMP PER CALTRANS REVISED STANDARD PLAN RSP A88A, CASE PER PLAN
  - 8 - ASPHALT CONCRETE PAVEMENT
  - 9 - UNTREATED BASE MATERIAL
  - 10 - INSTALL ACCESSIBLE PARKING STALL PER P/B/C 2014-084
  - 11 - INSTALL PARKING STALL
  - 12 - LONGITUDINAL CONCRETE GUTTER PER SPPWC STANDARD PLAN 122-2
  - 13 - CONCRETE PAVEMENT PER DETAIL ON SHEET C6-1.1
  - 14 - DETECTABLE WARNING SURFACE AT 0" CURB
  - 15 - INSTALL AREA DRAIN PER UTILITY PLAN, C4-1.2

**LEGEND**

- PAVEMENT PATH OF TRAVEL STRIPING
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- LANDSCAPE AREA
- DETECTABLE WARNING SURFACE

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**PAVING, GRADING  
AND DRAINAGE  
PLAN**

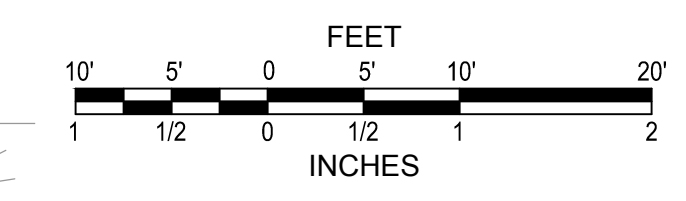
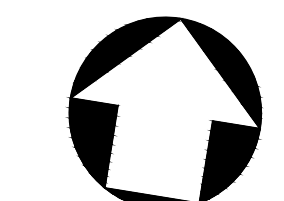
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STENCIL TO BE LOCATED ADJACENT TO ALL DRAIN INLETS

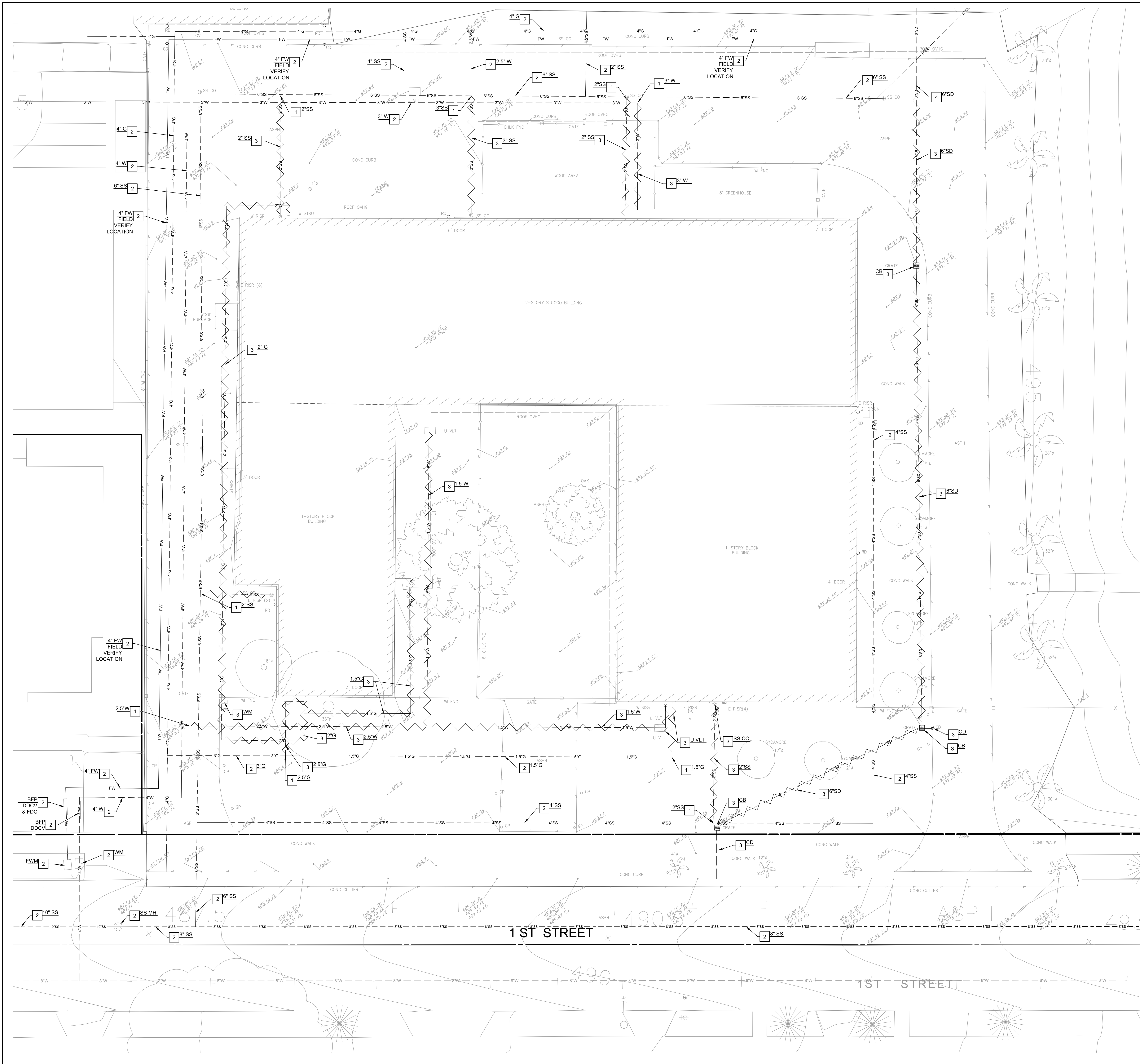


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**CONSTRUCTION NOTES**

- 1 - CUT AND CAP EXISTING UTILITY
- 2 - PROTECT IN PLACE
- 3 - REMOVE
- 4 - PROPOSED UTILITY POC

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JEREMY A. JOHNSON RCE # C71475 DATE

**FILLMORE HIGH SCHOOL -  
 NEW CTE BUILDINGS  
 FILLMORE  
 UNIFIED SCHOOL  
 DISTRICT**  
 555 Central Ave. Fillmore, CA.  
 93015

**LEGEND**

- G- EXISTING GAS LINE
  - SS- EXISTING SANITARY SEWER
  - SD- EXISTING STORM DRAIN
  - W- EXISTING WATER
  - G- PROPOSED GAS LINE
  - SS- PROPOSED SANITARY SEWER
  - W- PROPOSED WATER
- 
- CB CATCH BASIN
  - CD CURB DRAIN
  - U VLT UTILITY VAULT
  - CO CLEAN OUT
  - WM WATER VALVE
  - WM WATER METER
  - FH FIRE HYDRANT
  - POC POINT OF CONNECTION

ISSUED FOR:

SCHEMATIC DESIGN	11/18/2017
DESIGN DEVELOPMENT	09/12/2018
CONSTRUCTION DOCUMENTS	12/07/2018
30% CD	11/09/2018
90% CD	12/10/2018
DSA SUBMITTAL	12/21/2018
DSA BACKCHECK	5/08/2019

REVISIONS:

REGISTRATION/SIGNATURE:

SHEET TITLE:  
**UTILITY  
 DEMOLITION PLAN**

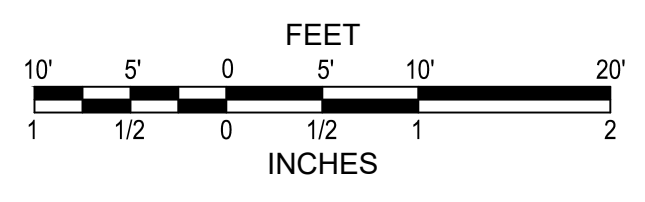
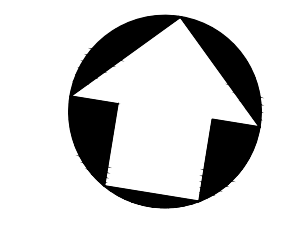
SHEET NUMBER:  
**C4-1.1**

WD PROJ. #	DRAWN BY:	CHECKED	DATE
18413	YL	JJ	5/08/2019

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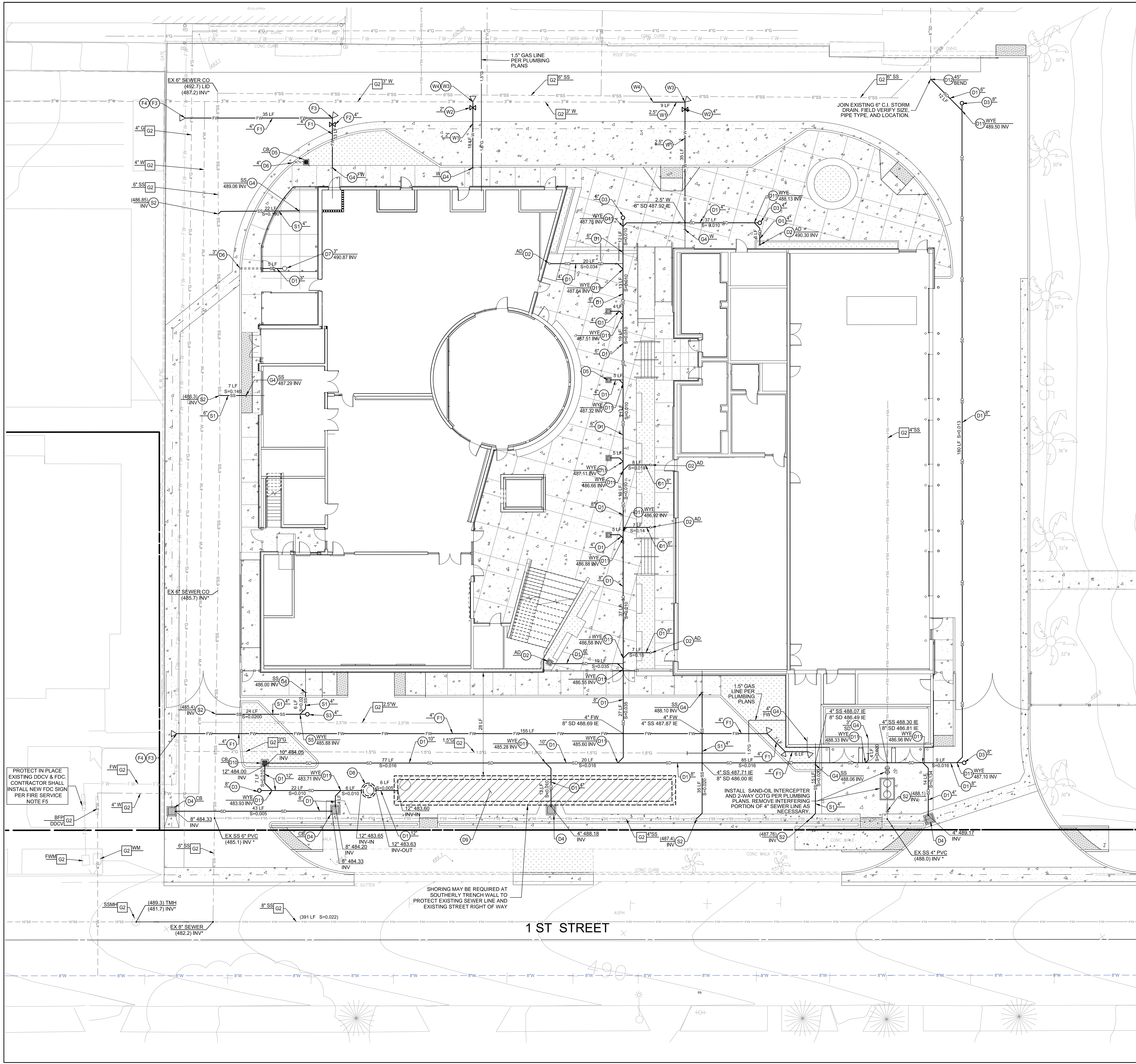


STENCIL TO BE LOCATED ADJACENT TO ALL DRAIN INLETS



NOT FOR CONSTRUCTION





**GENERAL NOTES:**

- ALL NON-METALLIC PIPE SHALL HAVE A TRACER WIRE OR METALLIC WARNING TAPE INSTALLED PER THESE PROVISIONS.
- WARNING TAPE:
  - WARNING TAPE SHALL BE BY TERRATAPE AS MANUFACTURED BY REEF INDUSTRIES COMPANY OF IRVINE, TEXAS OR LINEGUARD AS MANUFACTURED BY KOLBI INDUSTRIES OF CHICAGO, ILLINOIS OR DETECTATAPE AS MANUFACTURED BY ALLEN SYSTEMS OF HOUSTON, TEXAS. TAPE SHALL BE A MINIMUM WIDTH OF 3 INCHES AND A MINIMUM THICKNESS OF FIVE (5) MILS.
  - WARNING TAPE SHALL BE MANUFACTURED OF PVC PLASTIC COATED METALLIZED FOIL CONDUCTOR AS TO BE DETECTABLE BY A MAGNETIC LOCATOR AT GROUND SURFACE.
  - WARNING TAPE SHALL BE COLOR CODED YELLOW OR ORANGE FOR NATURAL GAS LINES AND BLUE FOR POTABLE WATER MAINS. BLACK LETTERS, 1-INCH HIGH SHALL IDENTIFY THE TYPE OF MAIN BURIED BELOW. THE LETTERED MESSAGE SHALL REPEAT NO LESS THAN EVERY 4 LINEAR FEET OF TAPE.
  - TAPE SHALL BE INSTALLED WITH THE TRENCH BACKFILL DIRECTLY OVER THE TOP OF THE CENTERLINE OF THE UNDERLYING MAIN. TAPE SHALL NOT BE CLOSER THAN 2 FEET ABOVE THE PIPE.
- TRACER WIRE (FOR PRESSURIZED PIPES):
  - TRACER WIRE SHALL BE SOLID SOFT DRAWN COPPER WIRE. WIRE SHALL BE INSULATED WITH POLYETHYLENE INSULATION. WIRE GAUGE SHALL BE MINIMUM SIZE NO. 10 AWG. MINIMUM INSULATION THICKNESS SHALL BE 0.110 INCHES.
  - WIRE SHALL BE INSTALLED BY LAYING ON TOP OF THE WATER MAIN AND TAPED EVERY 10 LINEAR FEET OF PIPE RUN. WIRE SHALL BE BROUGHT TO GRADE AT ALL VALVE LOCATIONS INSIDE THE VALVE RISER BOX AND AT ALL GAS CONDENSATE TRAPS INSIDE THE BLOW-OFF VALVE BOX.
- ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE. SEE DETAIL 10 ON SHEET C6-1.1.
- INSTALLATION AND TESTING OF FIRE SERVICE LINE SHALL BE PER NFPA 24 FIRE DEPARTMENT IS TO WITNESS HYDROSTATIC TEST (8-9.3) AND FLUSH OF THE SYSTEM (8-8).
- SEE DETAIL 9 ON SHEET C6-1.1 FOR PIPE BEDDING AND TRENCH DETAIL.

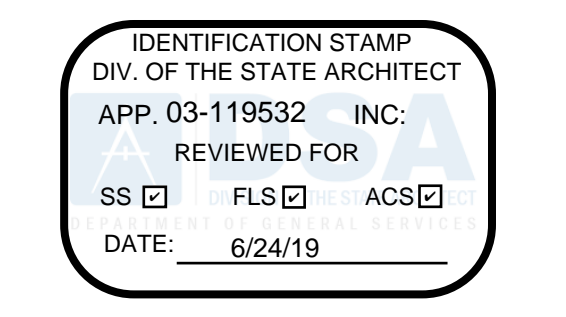
**CONSTRUCTION NOTES**

- GENERAL**
- G1 - CUT AND CAP EXISTING UTILITY.
  - G2 - PROTECT IN PLACE.
  - G3 - REMOVE.
  - G4 - PROPOSED UTILITY POC. SEE PLUMBING PLAN FOR CONTINUATION.

- STORM DRAIN**
- D1 - INSTALL PVC STORM DRAIN PIPE, SDR35, D3034, SIZE AND LENGTH PER PLAN. FITTINGS AS REQUIRED. 24" MIN COVER.
  - D2 - INSTALL NDS NO. 918 6" ROUND BRASS GRATE, OR EQUAL. FITTINGS AS REQUIRED.
  - D3 - INSTALL STORM DRAIN CLEANOUT PER SPPWC STD PLAN 204-2 MODIFIED FOR PIPE SIZE PER PLAN.
  - D4 - INSTALL 24"X24" JENSEN DROP INLET, OR EQUAL. TRAFFIC RATED FRAME AND GRATE.
  - D5 - INSTALL NDS NO. 1230B 12"X12" BRASS GRATE, OR EQUAL. FITTINGS AS REQUIRED.
  - D6 - INSTALL CURB DRAIN, MODIFIED TO 3-INCH PIPE, PER SPPWC STD. PLAN 150-3.
  - D7 - INSTALL JOSAM FLOOR DRAIN, TYPE 30003-TSO FOR 3-INCH PIPE. SEE DETAIL 12 ON SHEET C6-1.1.
  - D8 - INSTALL 3"Ø CDS UNIT, MODEL CD1515-3-C. SEE DETAIL 1 ON SHEET C5-1.1.
  - D9 - INSTALL 72"Ø CMP RETENTION/INFILTRATION BASIN PER CONTECH ENGINEERED SOLUTIONS. SEE DETAIL 1 ON SHEETS C5-1.2 AND C5-1.3.
  - D10 - INSTALL 16"X16" JENSEN DROP INLET, OR EQUAL.
  - D11 - INSTALL PVC FITTING (SDR 35), TYPE PER PLAN, SIZE PER ADJOINING PIPE.
  - D12 - INSTALL C.I. FITTING, TYPE PER PLAN, SIZE PER ADJOINING PIPE.
  - D13 - ROOF DRAIN OUTLET LOCATED ABOVE CATCH BASIN.

- SEWER**
- S1 - INSTALL PVC SANITARY SEWER PIPE, SDR35, SIZE AND LENGTH PER PLAN. MIN SLOPE, S=2%; 24" MIN COVER.
  - S2 - CONNECT TO EXISTING SEWER LINE. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH, SIZE, AND CONDITION PRIOR TO CONSTRUCTION.
  - S3 - INSTALL SEWER CLEANOUT PER SPPWC STD PLAN 204-2 MODIFIED FOR PIPE SIZE PER PLAN.
  - S4 - INSTALL SEWER CLEANOUT PER PLUMBING PLANS.
  - S5 - INSTALL PVC FITTING (SDR 35), TYPE PER PLAN, SIZE PER ADJOINING PIPE.
- DOMESTIC WATER**
- W1 - INSTALL DUCTILE IRON DOMESTIC WATER PIPE. SIZE AND LENGTH PER PLAN. MINIMUM 2' OF COVER.
  - W2 - INSTALL 4" GATE VALVE.
  - W3 - INSTALL THRUST BLOCK.
  - W4 - CONNECT TO EXISTING WATER LINE. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH, SIZE, AND CONDITION PRIOR TO CONSTRUCTION.

- FIRE SERVICE**
- F1 - INSTALL DUCTILE IRON FIRE WATER PIPE. SIZE AND LENGTH PER PLAN. MINIMUM 2' OF COVER.
  - F2 - INSTALL 4" GATE VALVE.
  - F3 - INSTALL THRUST BLOCK.
  - F4 - CONNECT TO EXISTING WATER LINE. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH, SIZE, AND CONDITION PRIOR TO CONSTRUCTION.
  - F5 - METAL SIGN WITH RAISED LETTERS AT LEAST 1-INCH IN SIZE SHALL BE MOUNTED ON THE FDC. SIGN SHALL READ "AUTO SPRINKLER", "STANDPIPE", OR "TEST CONNECTION" AS APPLICABLE. SIGN SHALL INDICATE WHICH BUILDINGS ARE BEING SERVED.



JEREMY A. JOHNSON RCE # C71475 DATE

**FILLMORE HIGH SCHOOL - NEW CTE BUILDINGS**

**FILLMORE UNIFIED SCHOOL DISTRICT**

555 Central Ave. Fillmore, CA. 93015

ISSUED FOR:	DATE
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DESIGN DEVELOPMENT	09/12/2018
CONSTRUCTION DOCUMENTS	12/07/2018
50% CD	11/09/2018
95% CD	12/10/2018
DSA SUBMITTAL	12/21/2018
DSA BACKCHECK	5/08/2019

REVISIONS:

REGISTRATION/SIGNATURE:

SHEET TITLE:

**UTILITY PLAN**

SHEET NUMBER:

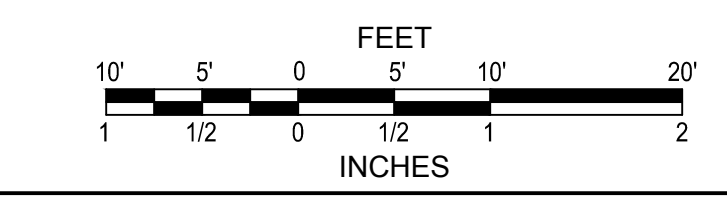
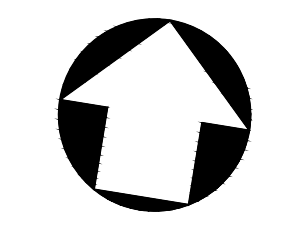
**C4-1.2**

WD PROJ. # 18413 DRAWN BY YL CHECKED JJ DATE 5/08/2019

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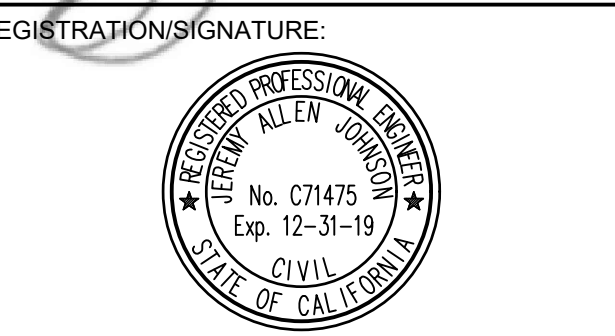
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 NEW CTE BUILDINGS  
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 555 Central Ave. Fillmore, CA.  
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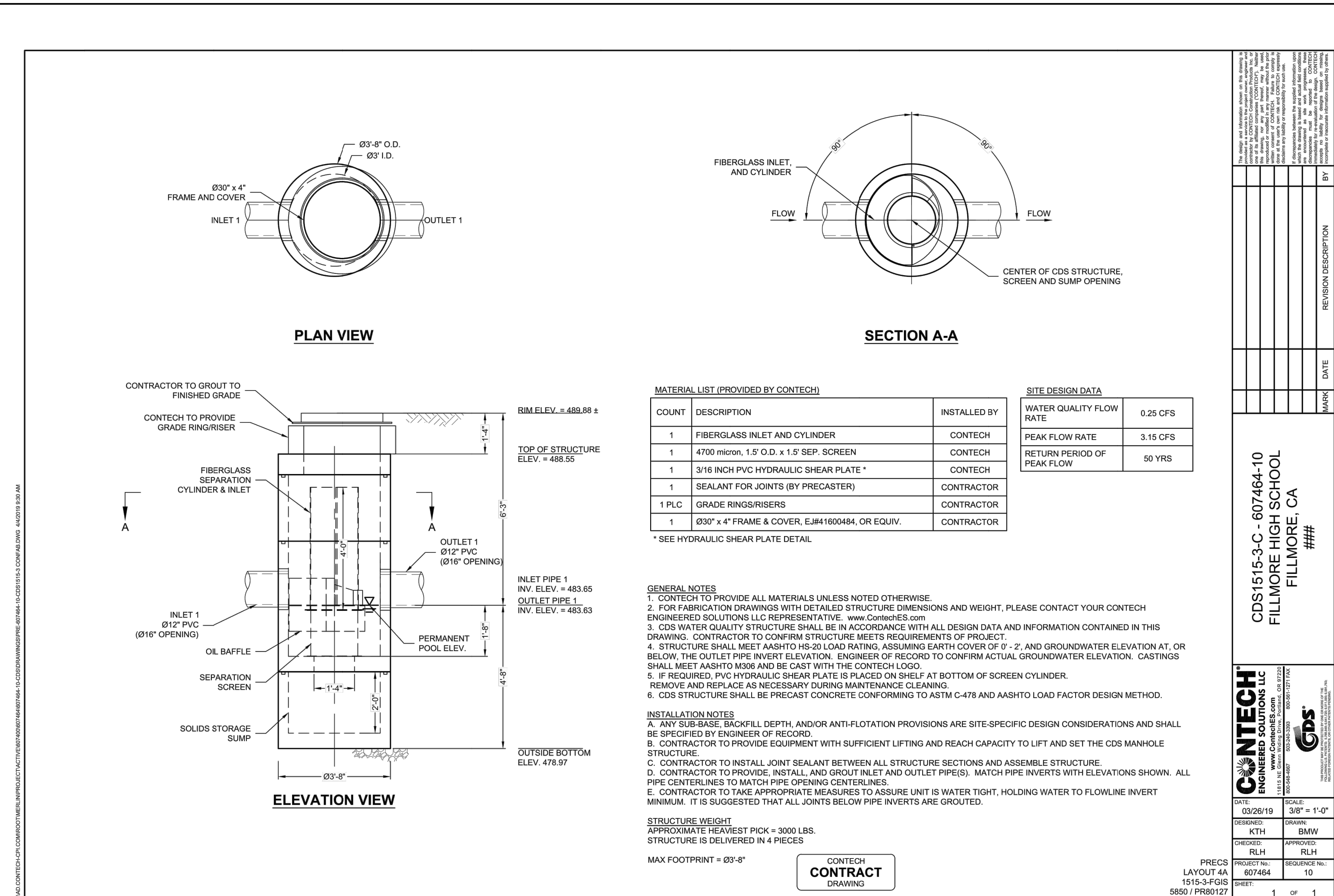
SHEET TITLE:

**STORM WATER  
 TREATMENT DEVICE**

SHEET NUMBER:

**C5-1.1**

WD PROJ #	DRAWN BY	CHECKED	DATE
18413	YL	JJ	5/08/2019



**1 | CDS UNIT DETAIL**

C5-1.1 REF. C4-1.2

SCALE: N.T.S.



Application No. 03 - 119532 File No. 56-H1

All Storm Water Treatment Devices drawings as listed in the sheet index, and shown hereon, have been prepared by other design professionals or consultants who are licensed and / or authorized to prepare such drawings in this State. They have been examined by me for:  
 1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications, and 2) coordination with my plans and specifications and are acceptable for incorporation into the construction of this project.

The Statement of General Incorporation "shall not be construed as relieving me of my rights, duties, and responsibilities under Section 17302 and 81136 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1, (Title 24, Part 1, Section 4-317 (b))

I certify that these drawings and/or page:  
 are in general conformance and  
 have been coordinated  
 Date: 12-21-18  
 Signature: [Signature]  
 Civil Engineer designated to be in general responsible charge  
 JEREMY ALLEN JOHNSON  
 Print Name  
 C71475  
 License Number  
 12-31-19  
 Expiration Date

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP. 03-119532 INC.  
 REVIEWED FOR  
 SS  FLS  ACS  
 DATE: 6/24/19

STUB INFORMATION		
PIECE	STUB INVERT	SYSTEM INVERT
12" STUB A2	483.60	480.60

RISER INFORMATION		
PIECE	RIM ELEV.	SYSTEM INVERT
36" RISER A3	489.95	480.60

**ASSEMBLY**  
 SCALE: 1" = 10'  
 PIPE STORAGE: 2,120 CF  
 STRUCTURAL BACKFILL STORAGE: 877 CF  
 TOTAL STORAGE PROVIDED: 2,997 CF  
 LOADING: H20  
 PIPE INV. = 480.60±

**NOTES:**  
 • THE ENGINEER SHALL PROVIDE OBSERVATION DURING CONSTRUCTION.  
 • A FINAL VERIFIED REPORT INCLUDING INSTALLATION OF THE STORMWATER RETENTION SYSTEM WILL BE REQUIRED FROM THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.  
 • THE PIPE SHALL BE FULLY PERFORATED IN ACCORDANCE WITH AASHTO M 36, SECTION 8.3.2.2, AND USING CLASS 2 PERFORATIONS. THE TOTAL OPEN AREA OF THE PERFORATIONS WILL BE A MINIMUM OF 2.3% OF THE PIPE SURFACE AREA.  
 • BULKHEADS SHALL BE 12 GAUGE OR HEAVIER STEEL AND THE COATING WILL MATCH THE SPECIFIED CMP COATING. BULKHEAD PLATES SHALL BE FULLY WELDED ONTO THE CMP WITH STEEL REINFORCEMENT AS REQUIRED. THE STEEL REINFORCEMENT SHALL BE POST COATED WITH ZINC RICH PAINT PER AASHTO M 36. BULKHEAD DESIGN SHALL SATISFY THE REQUIREMENTS SHOWN IN CHAPTER 4 OF THE NCSIPA CSP DESIGN MANUAL AND CALCULATIONS SHALL BE PROVIDED TO THE ENGINEER OR RECORDS ENGINEER FOR APPROVAL UPON REQUEST.  
 • ALL FITTINGS SHALL BE STRUCTURALLY CHECKED FOR REINFORCEMENTS PER ASTM A886 AND PROVIDED TO THE EOR FOR APPROVAL UPON REQUEST.  
 • CONNECTING BANDS FOR INFILTRATION SYSTEMS SHALL BE ANY TYPE, BUT MUST BE AT LEAST 12" WIDE. BANDS SHALL MATCH THE SPECIFIED CMP COATING AND MEET THE REQUIREMENTS OF AASHTO M 36.  
 • ALL METALLIC COATINGS AFFECTED BY MANUFACTURING FABRICATION SHALL BE REPAIRED PER AASHTO M 36 SECTION 11 REQUIREMENTS (E.G. ZINC RICH PAINT ON ALL WELDS). IF POLYMER COATINGS ARE USED, THE REPAIR OF DAMAGED COATINGS WILL BE IN CONFORMANCE WITH AASHTO M 245 SECTION 11 REQUIREMENTS.  
 • ACCESS LOADERS SHALL BE ATTACHED BY THE MANUFACTURER PRIOR TO DELIVERY, NOT INSTALLED ON THE JOBSITE.

**THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (5) PAGES INCLUDING THE FOLLOWING:**  
 • PIPE STORAGE = 2,120 CF  
 • MAINLINE PIPE GAUGE = 16  
 • WALL TYPE = PERFORATED  
 • DIAMETER = 72"  
 • FINISH = ALT2  
 • CORRUGATION = 5x1

Approved: MTH Date: 4/5/19  
 Project No.: CBC-22286 Rev. 1  
 11/24/19/18 REV. #1

**CBC Engineers**  
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**CONTECH ENGINEERED SOLUTIONS LLC**  
 11815 NE Glenn Way Drive, Portland, OR 97220  
 503-548-4667 503-240-3383 800-961-1271 FAX

**CONTECH CMP DETENTION SYSTEMS**  
 CONTRACT DRAWING

72" PERFORATED UNDERGROUND RETENTION SYSTEM - 607464-020  
 FILLMORE HIGH SCHOOL  
 FILLMORE, CA  
 SITE DESIGNATION: UNDERGROUND RETENTION

PROJECT NO. 607464 SHEET NO. C20 OF 5 DATE: 12/7/2018  
 DESIGNED BY: KTH APPROVED BY: GH/BBMW  
 CHECKED BY: KTH  
 DRAWN BY: KTH

**TYPICAL SECTION VIEW**  
 NOT TO SCALE

**EXFILTRATION AREA**  
 STANDARD PERFORMANCE PATTERNS

PIPE	CORRUGATION PATTERN
72"	2 2/3" x 1/2" 3" x 1" 5" x 1" ULTRA FLO

**TYPICAL PERFORATION DETAIL**  
 NOT TO SCALE

**NOTES:**  
 1. PERFORATIONS MEET AASHTO AND ASTM SPECIFICATIONS.  
 2. PERFORATION OPEN AREA PER SQUARE FOOT OF PIPE IS BASED ON THE NOMINAL DIAMETER AND LENGTH OF PIPE.  
 3. DIMENSIONS SUBJECT TO MANUFACTURER'S TOLERANCES.  
 4. ALL HOLES 1/8"

**NOTES:**  
 • GAGE AND COATING LIMITATIONS APPLY. 5" x 1" IS NOT AVAILABLE IN ALUMINUM.  
 • DIMENSIONS SUBJECT TO MANUFACTURER'S TOLERANCES.

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PROJECT NO. 607464 SHEET NO. C2 OF 5 DATE: 12/7/2018  
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 CHECKED BY: KTH  
 DRAWN BY: KTH

**BACKFILL REQUIREMENTS FOLLOW THE GUIDELINES OF AASHTO LFPD BRIDGE DESIGN (SEC 12) AND CONSTRUCTION (SEC 26) DESIGN FOR H20 LOADING**

- MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE MINIMUM TRENCH WIDTH (12.6.6.1):  
 PIPE < 12" = 14"  
 PIPE > 12" = 150" + 12"
- MINIMUM EMBANKMENT WIDTH (IN FEET) FOR INITIAL FILL ENVELOPE (12.6.6.2):  
 PIPE < 24" = 3.00  
 PIPE 24" - 144" = 4' + 4"  
 PIPE > 144" = 12' + 100"
- THE FOUNDATION UNDER THE PIPE AND SIDE BACKFILL SHALL BE ADEQUATE TO SUPPORT THE LOADS ACTING UPON IT (26.5.2).
- BEDDING MATERIAL SHALL BE A RELATIVELY LOOSE GRANULAR MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, AND A MINIMUM OF TWICE THE CORRUPTION DEPTH IN THICKNESS, WITH THE MAXIMUM PARTICLE SIZE OF ONE-HALF OF THE CORRUPTION DEPTH (26.5.3, 26.5.3). PER GEOTECH: BEDDING TO BE COMPACTED TO 95%.
- PERFORATED CORRUGATED STEEL PIPE (CSP) / HEL-COR.
- HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION (26.5.4).
- INITIAL BACKFILL FOR PIPE EMBEDMENT SHALL BE CLASSIFIED AS SAND, BE FREE OF ORGANIC MATERIAL, AND HAVE A SAND EQUIVALENT (SE) OF 30 OR MORE. ALL LIFTS PLACED IN A CONTROLLED MANNER. IT IS RECOMMENDED THAT LIFTS NOT EXCEED AN UNCOMPACTED LIFT HEIGHT TO PREVENT OVERSLOTTING AND THE LESSER OF 10" TO THE DIAMETER OR 24" AS THE MAXIMUM DIFFERENTIAL SIDE-TO-SIDE (26.5.4).
- INITIAL BACKFILL ABOVE PIPE MAY INCLUDE ROAD BASE MATERIAL AND RIGID PAVEMENT IF APPLICABLE. SEE TABLE ABOVE.
- TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS (H20) IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT (12.6.6.3).
- GEOTEXTILE SHALL BE USED TO WRAP TRENCH SIDES AND TOP ONLY TO PREVENT SOIL MIGRATION INTO STONE LAYER SURROUNDING SYSTEM. INSTALL 6 OZ/LY. MEDIUM WEIGHT NONWOVEN GEOTEXTILE FILTER FABRIC (MIN. 100% OR ENGINEER APPROVED EQUAL). INSTALL SINGLE LAYER OF FABRIC WITH 3 FOOT MINIMUM OVERLAP BETWEEN ROLLS. GEOTECHNICAL ENGINEER TO OBSERVE CONSTRUCTION.
- FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OR RECORDS ENGINEER (26.6.4.1).

**NOTES:**  
 • FOR MULTIPLE BARREL INSTALLATIONS THE RECOMMENDED STANDARD VERTICAL PARALLEL PIPE RING SHALL BE PIPE DIA./2 BUT NOT LESS THAN 12" OR 30" FOR PIPE DIAMETERS 72" AND LARGER. CONTACT YOUR CONTRACT REPRESENTATIVE FOR NONSTANDARD SPACING (TABLE C12.6.7.1).  
 • \*ALLOWABLE BEARING PRESSURE PER PROJECT GEOTECH: 2,000 LBS PER SQUARE FOOT FOR PIPE BEDDING ZONE (WITH A GROSS ALLOWABLE BEARING CAPACITY OF 3,000 PSF)

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 FILLMORE, CA  
 SITE DESIGNATION: UNDERGROUND RETENTION

PROJECT NO. 607464 SHEET NO. C2 OF 5 DATE: 12/7/2018  
 DESIGNED BY: KTH APPROVED BY: GH/BBMW  
 CHECKED BY: KTH  
 DRAWN BY: KTH

**PLAIN END CMP RISER PIPE**  
 NOT TO SCALE

**PLAIN END CMP PIPE**  
 NOT TO SCALE

**D-12 DIMPLE BAND DETAIL**  
 NOT TO SCALE

**GENERAL NOTES:**  
 1. DELIVERED BAND STYLE AND FASTENER TYPE MAY VARY BY FABRICATION PLANT.  
 2. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.  
 3. BAND MATERIAL AND GAGE TO BE SAME AS RISER MATERIAL.  
 4. IF RISER HAS A HEIGHT OF COVER OF 10' OR MORE, USE A SLIP JOINT.  
 5. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:  
 • 12" THRU 48" 1-PIECE  
 • 54" 2-PIECES  
 6. ALL RISER JOINT COMPONENTS WILL BE FIELD ASSEMBLED.  
 7. MANHOLE RISERS IN APPLICATIONS WHERE TRAFFIC LOADS ARE IMPOSED REQUIRE SPECIAL DESIGN CONSIDERATIONS.  
 8. DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

**GENERAL NOTES:**  
 1. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.  
 2. BAND MATERIALS AND/OR COATING CAN VARY BY LOCATION. CONTACT YOUR CONTECH REPRESENTATIVE FOR AVAILABILITY.  
 3. BANDS ARE SHAPED TO MATCH THE PIPE ARCH WHEN APPLICABLE.  
 4. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:  
 • 12" THRU 48" 1-PIECE  
 • 54" THRU 96" 2-PIECES  
 • 102" THRU 144" 3-PIECES  
 5. BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS.  
 6. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.  
 7. ORDER SHALL DESIGNATE GASKET OPTION, IF REQUIRED (SEE DETAILS ABOVE).

**IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.**

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**CONSTRUCTION LOADING DIAGRAM**  
 NOT TO SCALE

**REINFORCING TABLE**

Ø CMP RISER	A	B Ø	REINFORCING	**BEARING PRESSURE (PSF)
24"	4'3"	26"	#5 @ 10" OCEW #5 @ 10" OCEW	2,540 1,900
36"	4'6" x 4'6"	32"	#5 @ 10" OCEW #5 @ 8" OCEW	2,260 1,670
36"	5'0"	38"	#5 @ 8" OCEW #5 @ 8" OCEW	2,090 1,500
42"	5'6" x 5'6"	44"	#5 @ 8" OCEW #5 @ 8" OCEW	1,490 1,370
48"	6'0"	50"	#5 @ 8" OCEW #5 @ 7" OCEW	1,270 1,270

**CONSTRUCTION LOADING DIAGRAM**  
 NOT TO SCALE

**SCOPE:** THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.

**MATERIAL:** THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M24 OR ASTM A829.

**PIPE:** THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M24 OR ASTM A829. THE PIPE SIZES, GAGES AND CORROSIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

**ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.**

**HANDLING AND ASSEMBLY:** SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSIPA).

**INSTALLATION:** SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II OR ASTM A786 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

**IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.**

Approved: MTH Date: 4/5/19  
 Project No.: CBC-22286 Rev. 1  
 11/24/19/18 REV. #1

**CBC Engineers**  
 11815 NE Glenn Way Drive, Portland, OR 97220  
 503-548-4667 503-240-3383 800-961-1271 FAX

**CONTECH ENGINEERED SOLUTIONS LLC**  
 11815 NE Glenn Way Drive, Portland, OR 97220  
 503-548-4667 503-240-3383 800-961-1271 FAX

**CONTECH CMP DETENTION SYSTEMS**  
 CONTRACT DRAWING

72" PERFORATED UNDERGROUND RETENTION SYSTEM - 607464-020  
 FILLMORE HIGH SCHOOL  
 FILLMORE, CA  
 SITE DESIGNATION: UNDERGROUND RETENTION

PROJECT NO. 607464 SHEET NO. C4 OF 5 DATE: 12/7/2018  
 DESIGNED BY: KTH APPROVED BY: GH/BBMW  
 CHECKED BY: KTH  
 DRAWN BY: KTH

**RETENTION/INFILTRATION BASIN DETAIL**  
 1 (1 THRU 4 OF 5)

CS-12 REF. C4-12 SCALE: N.T.S.

**WESTGROUP DESIGNS**  
 ARCHITECTURE | PLANNING | INTERIOR DESIGN

19520 Jamboree Road | Suite 100  
 Irvine, CA 92612  
 949.250.0880 | FAX 949.250.0882  
 www.westgroupdesigns.com

**PSOMAS**  
 27220 Turberry Lane Suite 100  
 Valencia, CA 91355  
 Tel: 661-219-6000  
 www.psomas.com

JEREMY A. JOHNSON RCE # C71475 DATE

**FILLMORE HIGH SCHOOL - NEW CTE BUILDINGS**  
**FILLMORE UNIFIED SCHOOL DISTRICT**  
 555 Central Ave. Fillmore, CA. 93015

ISSUED FOR:  
 SCHEMATIC DESIGN 11/16/2017  
 DESIGN DEVELOPMENT 09/12/2018  
 CONSTRUCTION DOCUMENTS 12/07/2018  
 50% CD 11/09/2018  
 90% CD 12/10/2018  
 OSA SUBMITTAL 12/21/2018  
 OSA BACKCHECK 5/08/2019

REVISIONS:

REGISTRATION/SIGNATURE:  
 JEREMY ALLEN JOHNSON  
 No. C71475  
 Exp. 12-31-19  
 STATE OF CALIFORNIA

**STORM WATER TREATMENT DEVICE**  
**C5-1.2**

WD PROJ # 18413 DRAWN BY YL CHECKED JJ DATE 5/08/2019

© WESTGROUP DESIGNS, INC.








ISSUED FOR:	11/16/2017
SCHEMATIC DESIGN	09/12/2018
DESIGN DEVELOPMENT	09/12/2018
CONSTRUCTION DOCUMENTS	12/07/2018
50% CD	11/09/2018
95% CD	12/10/2018
DSA SUBMITTAL	12/21/2018
DSA BACKCHECK	5/08/2019

REVISIONS:

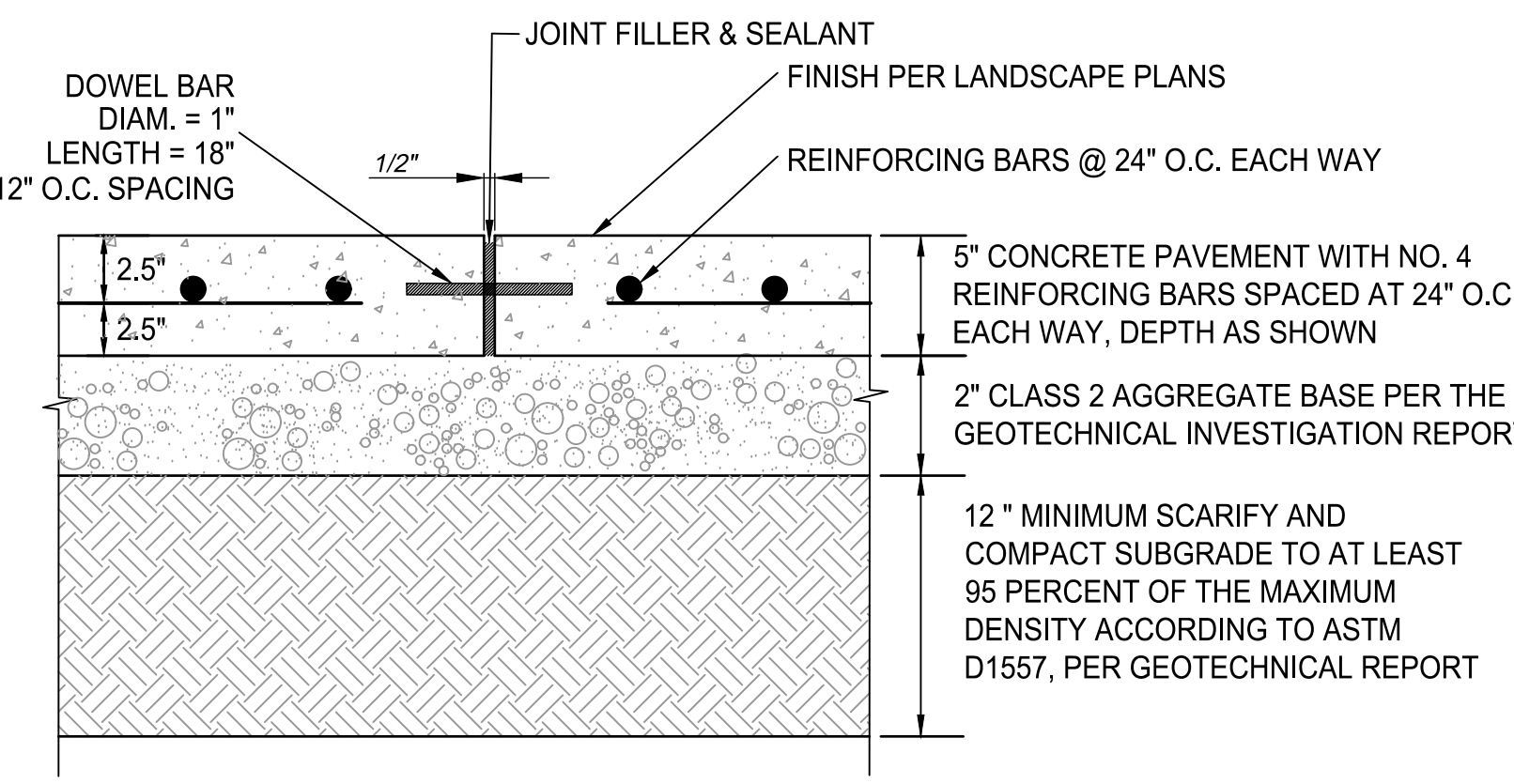
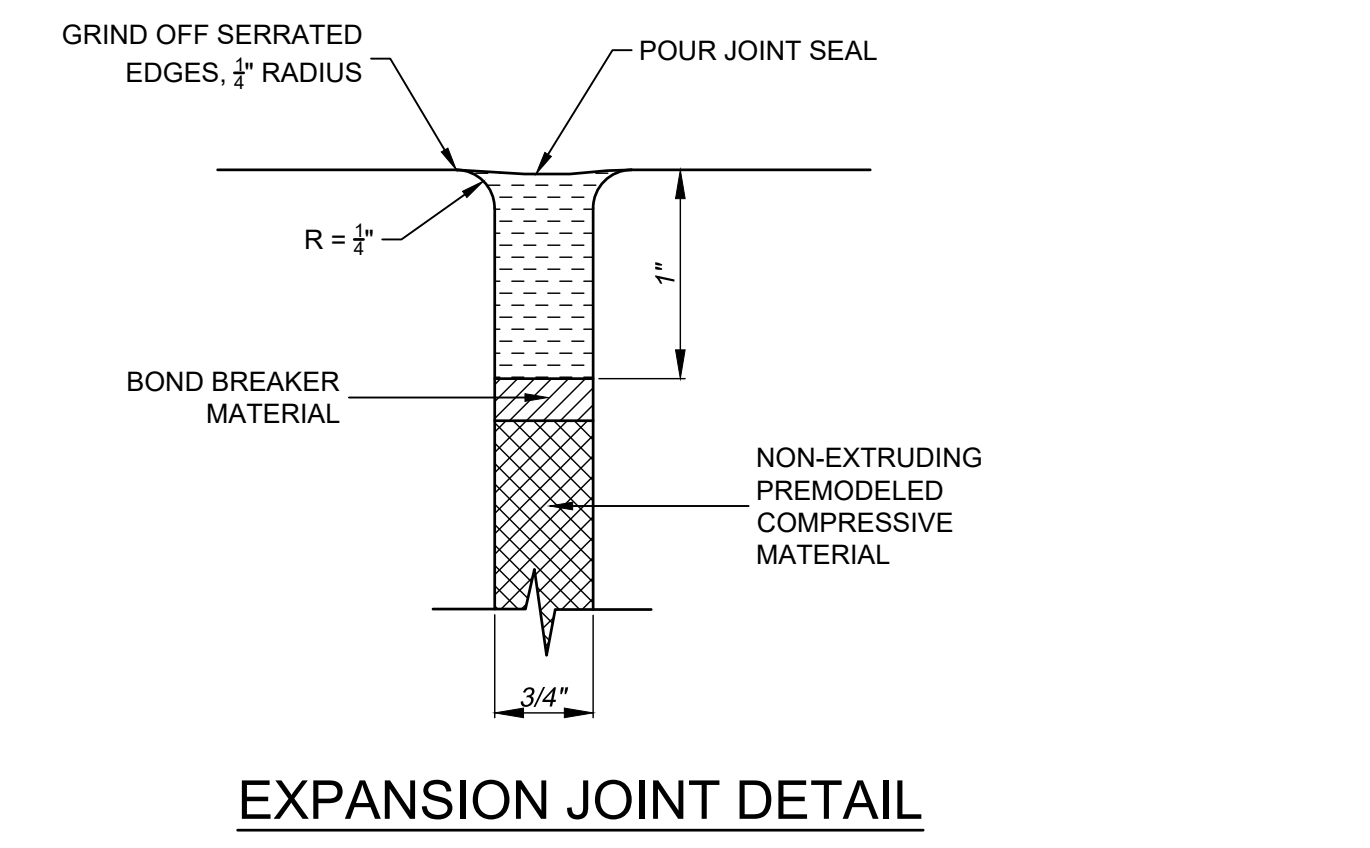
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SHEET TITLE:  
**CONSTRUCTION DETAILS**

SHEET NUMBER:  
**C6-1.1**

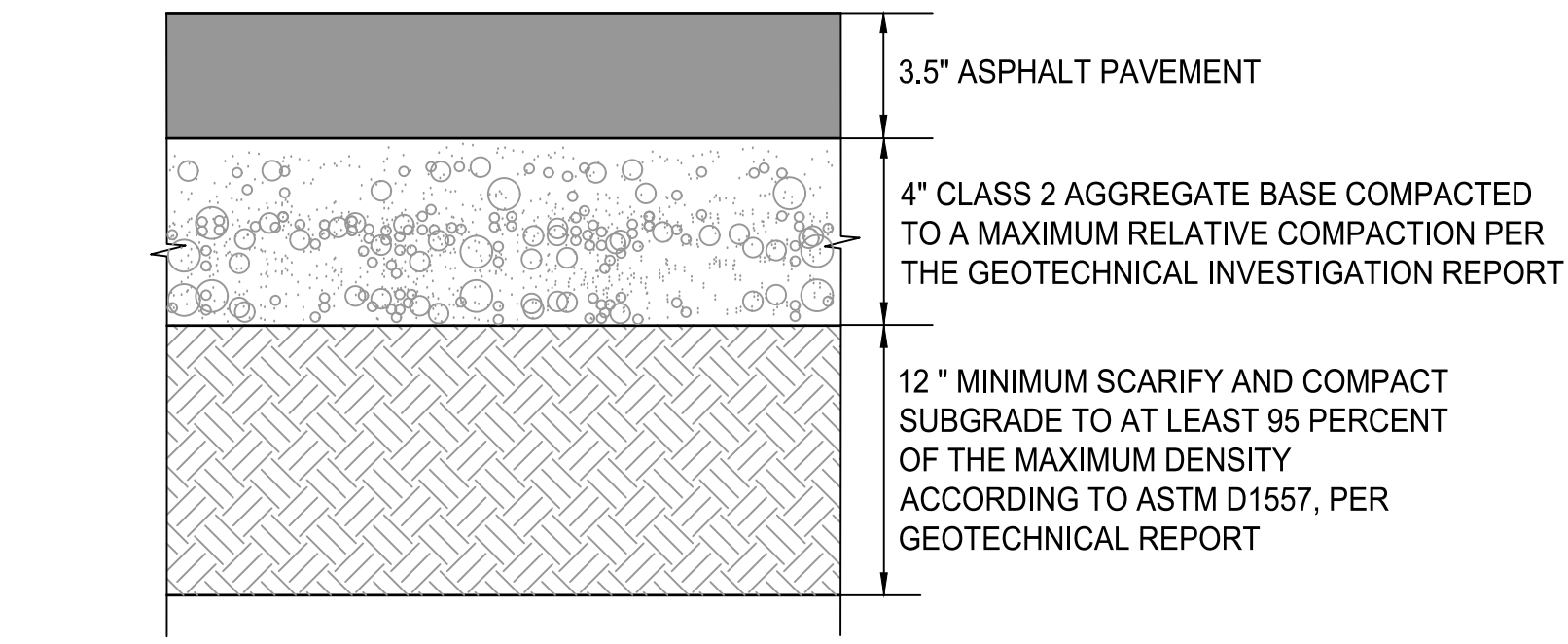
WD PROJ. # 18413 DRAWN BY: YL CHECKED: JJ DATE: 5/08/2019

NOT FOR CONSTRUCTION

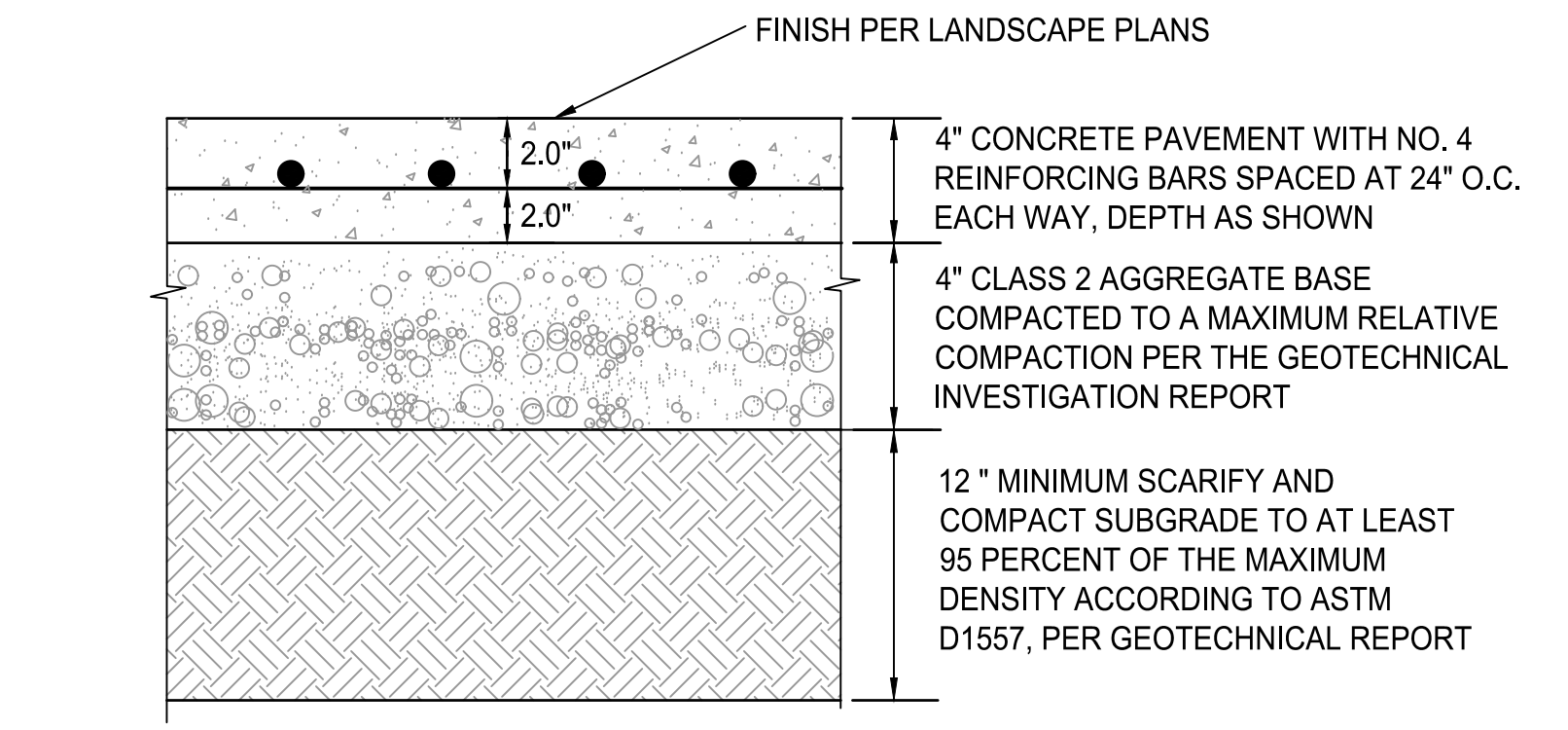


- GENERAL NOTES:**
- WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT REGULAR INTERVALS NOT EXCEEDING 10-FEET IN WALKS AND 20-FEET IN GUTTERS. JOINTS IN CURB AND WALK SHALL BE ALIGNED.
  - WEAKENED PLAN JOINTS SHALL BE USED FOR ALL JOINTS, EXCEPT THAT EXPANSION JOINTS SHALL BE PLACED AT THE BCR AND ECR IN CURB, GUTTER AND SIDEWALK, AND AROUND UTILITY POLES LOCATED IN SIDEWALK AREAS.

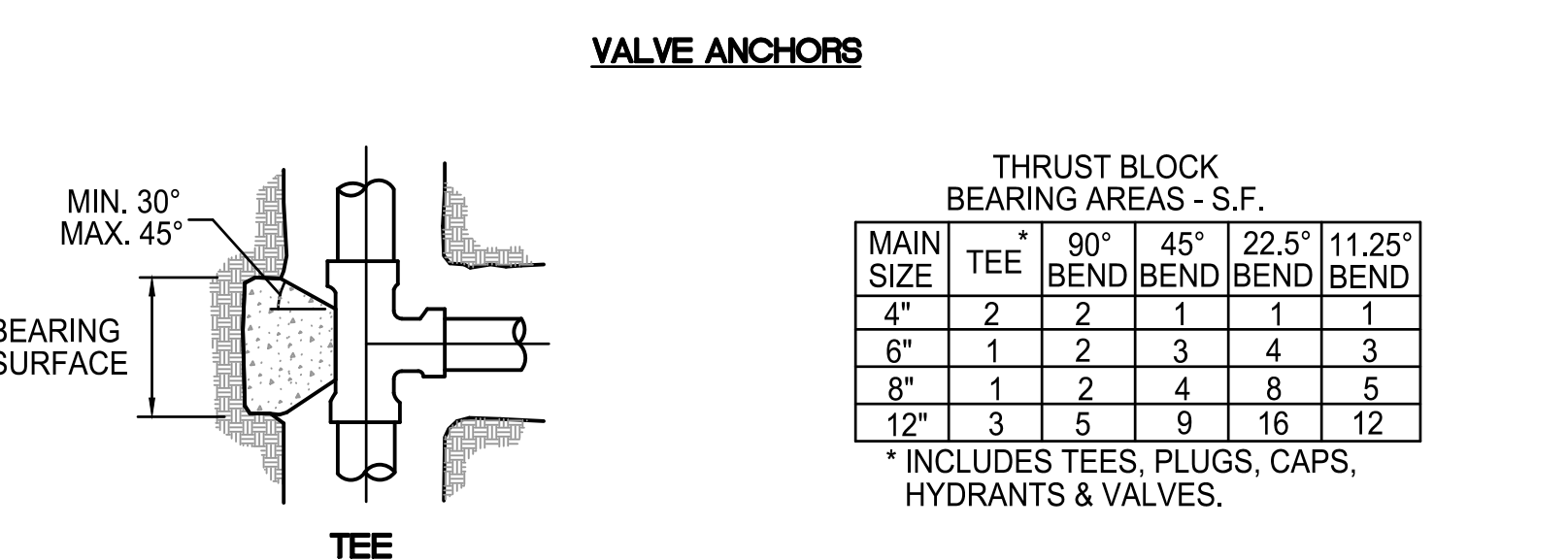
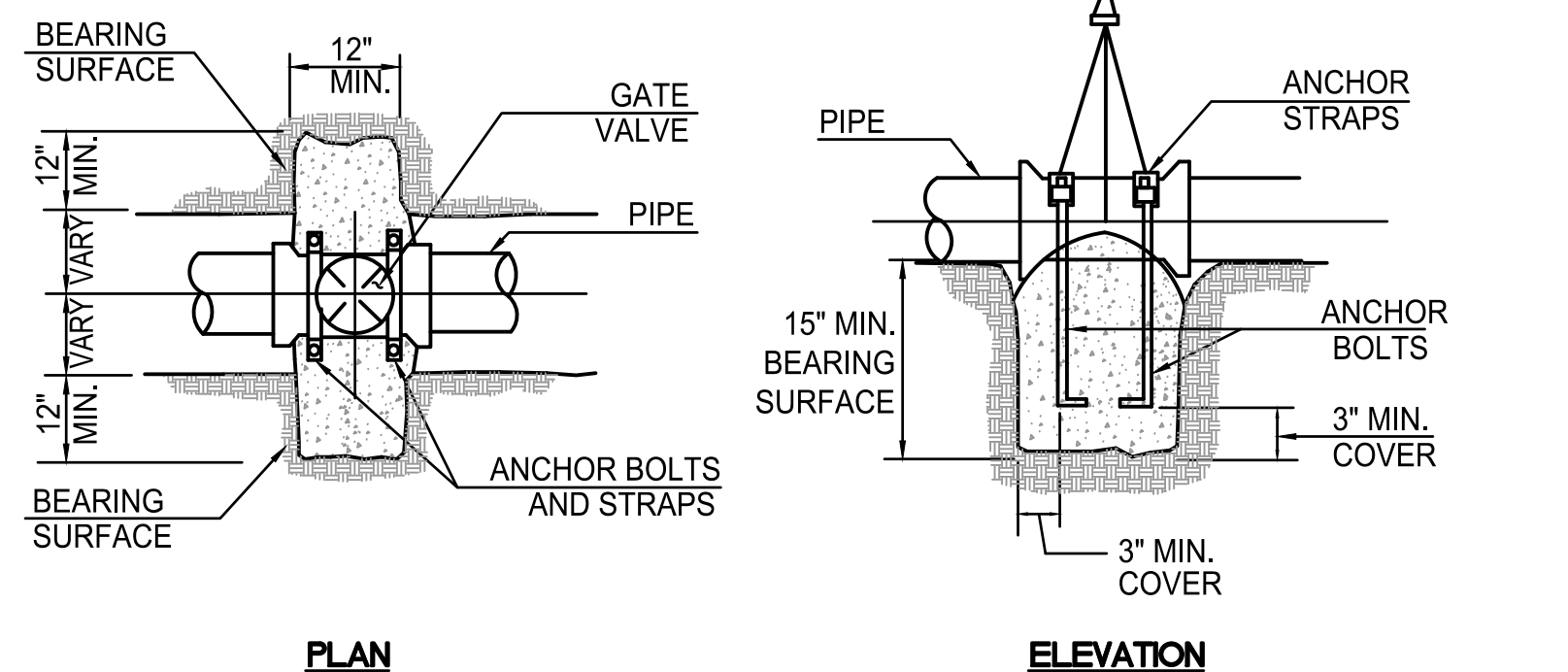
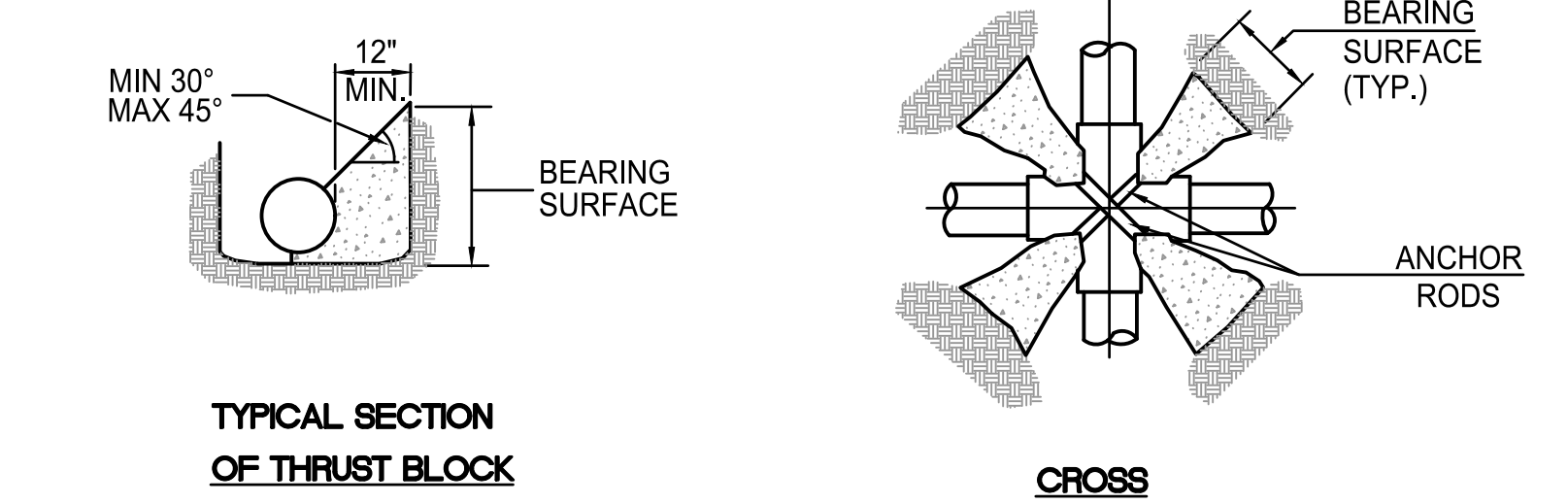
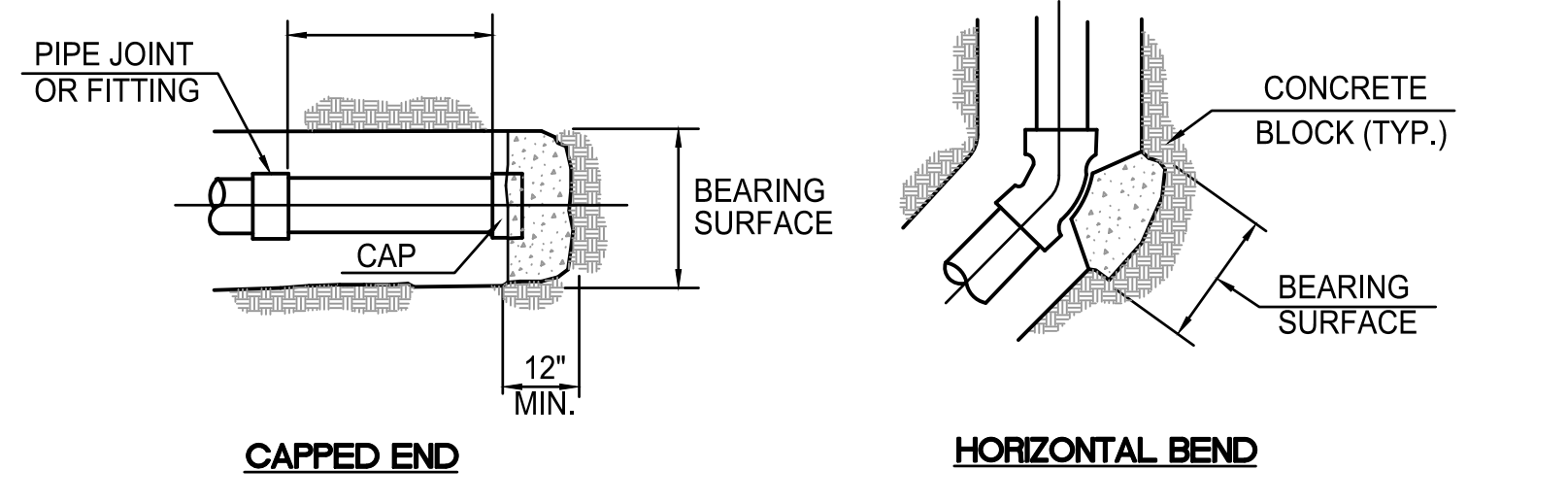
**3 CONCRETE PAVEMENT SECTION & EXPANSION JOINT**  
 C6-1.1 REF. C3-1.1 SCALE: N.T.S.



**2 ASPHALT PAVEMENT SECTION**  
 C6-1.1 REF. C3-1.1 SCALE: N.T.S.



**1 CONCRETE WALKWAY**  
 C6-1.1 REF. C3-1.1 SCALE: N.T.S.



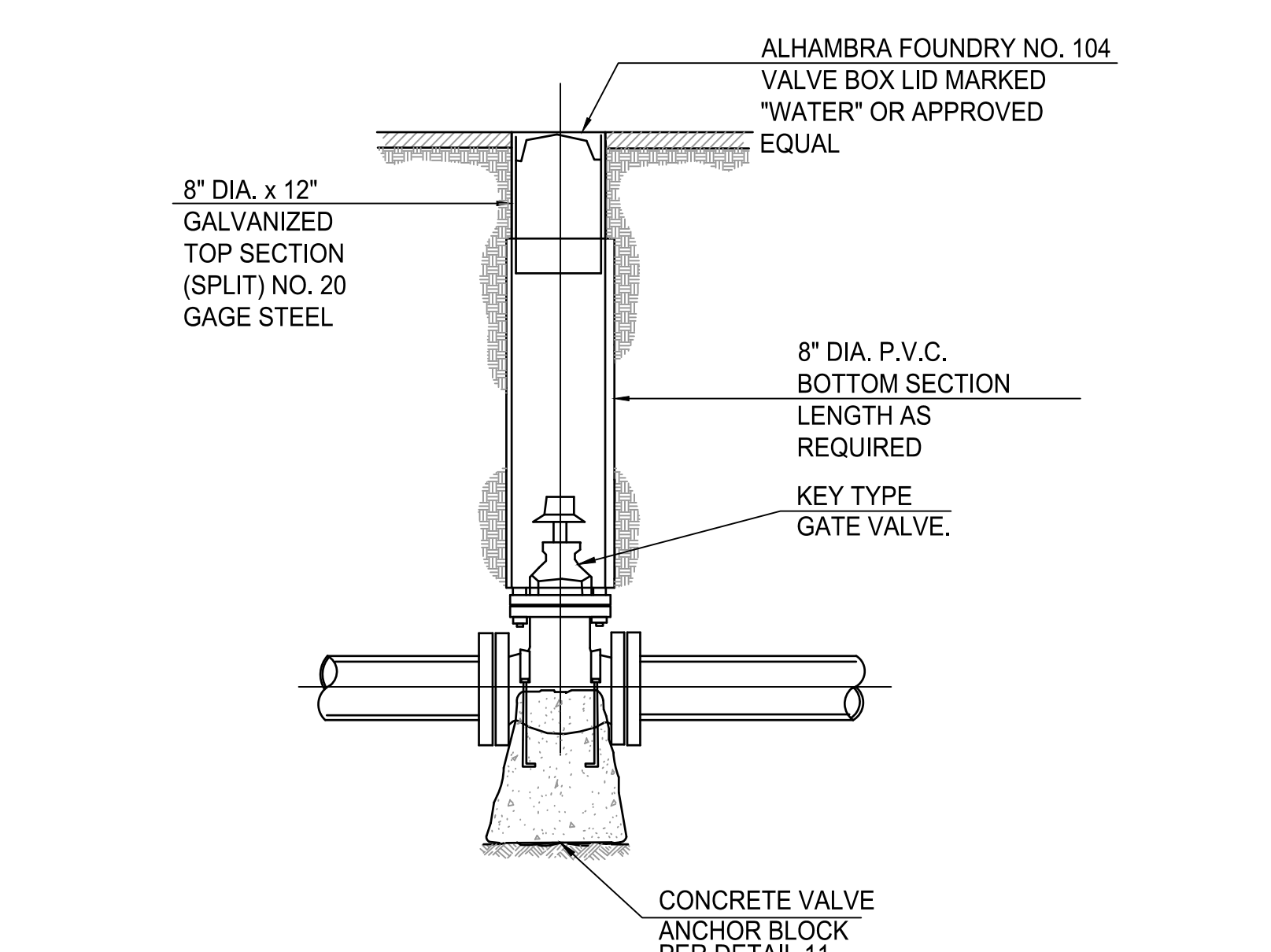
THRUST BLOCK BEARING AREAS - S.F.

MAIN SIZE	TEE	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4"	2	2	1	1	1
6"	1	2	3	4	3
8"	1	2	4	8	5
12"	3	5	9	16	12

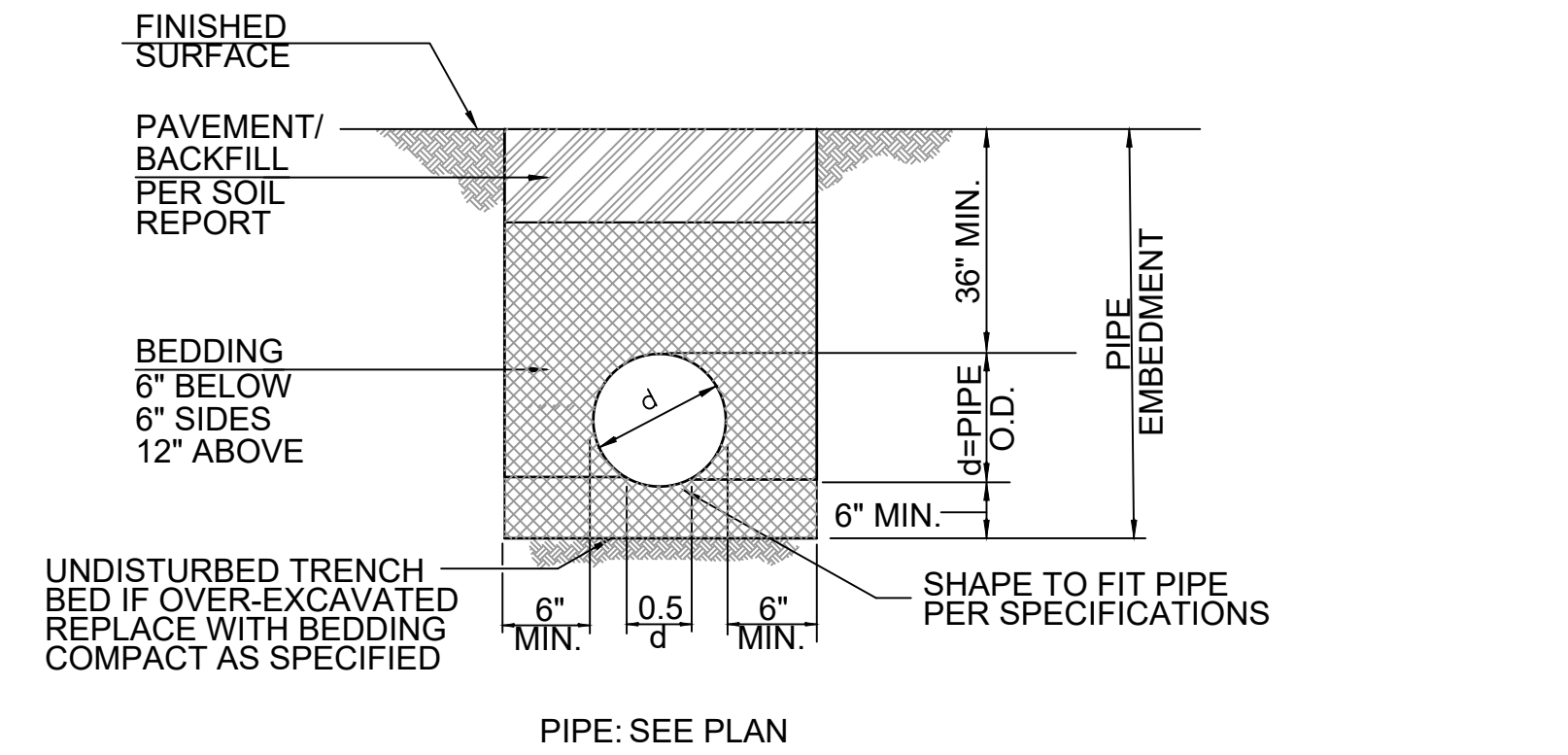
\* INCLUDES TEES, PLUGS, CAPS, HYDRANTS & VALVES.

- GENERAL NOTES:**
- ALL THRUST/ANCHOR BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
  - CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 P.S.I. AT 28 DAYS.
  - ALL ANCHOR RODS AND ANCHOR BOLTS SHALL BE MINIMUM 1/2" DIA. & ANCHOR STRAPS SHALL BE 1/2" X 2" BAR.
  - THRUST BLOCK DESIGN IS BASED ON A WATER PRESSURE OF 200 P.S.I., AND A MAXIMUM ALLOWABLE SOIL BEARING VALUE OF 2000 P.S.F. FOR MAXIMUM SOIL BEARING VALUES OF 1000 P.S.F. INCREASE BEARING VALUES BY A FACTOR OF 2.
  - THE RATIO OF WIDTH TO HEIGHT OF THRUST BLOCKS SHALL NOT EXCEED 1.5 TO 1.
  - ANCHOR BLOCKS FOR VERTICAL BENDS SHALL BE CONSTRUCTED PER SPECIAL DETAIL.

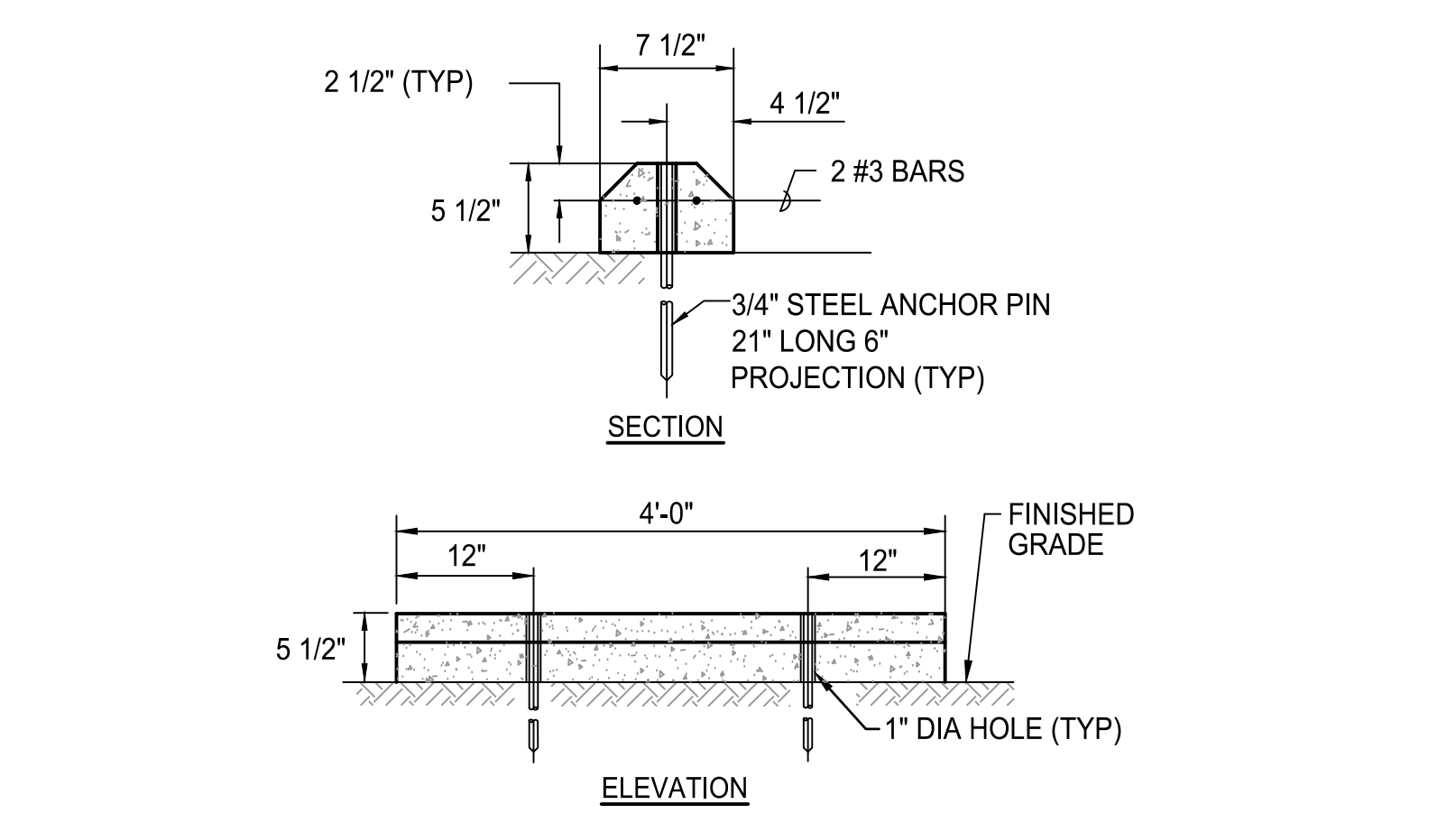
**5 THRUST AND ANCHOR BLOCK DETAILS**  
 C6-1.1 REF. C4-1.2 SCALE: N.T.S.



**4 GATE VALVE AND COVER DETAIL**  
 C6-1.1 REF. C4-1.2 SCALE: N.T.S.

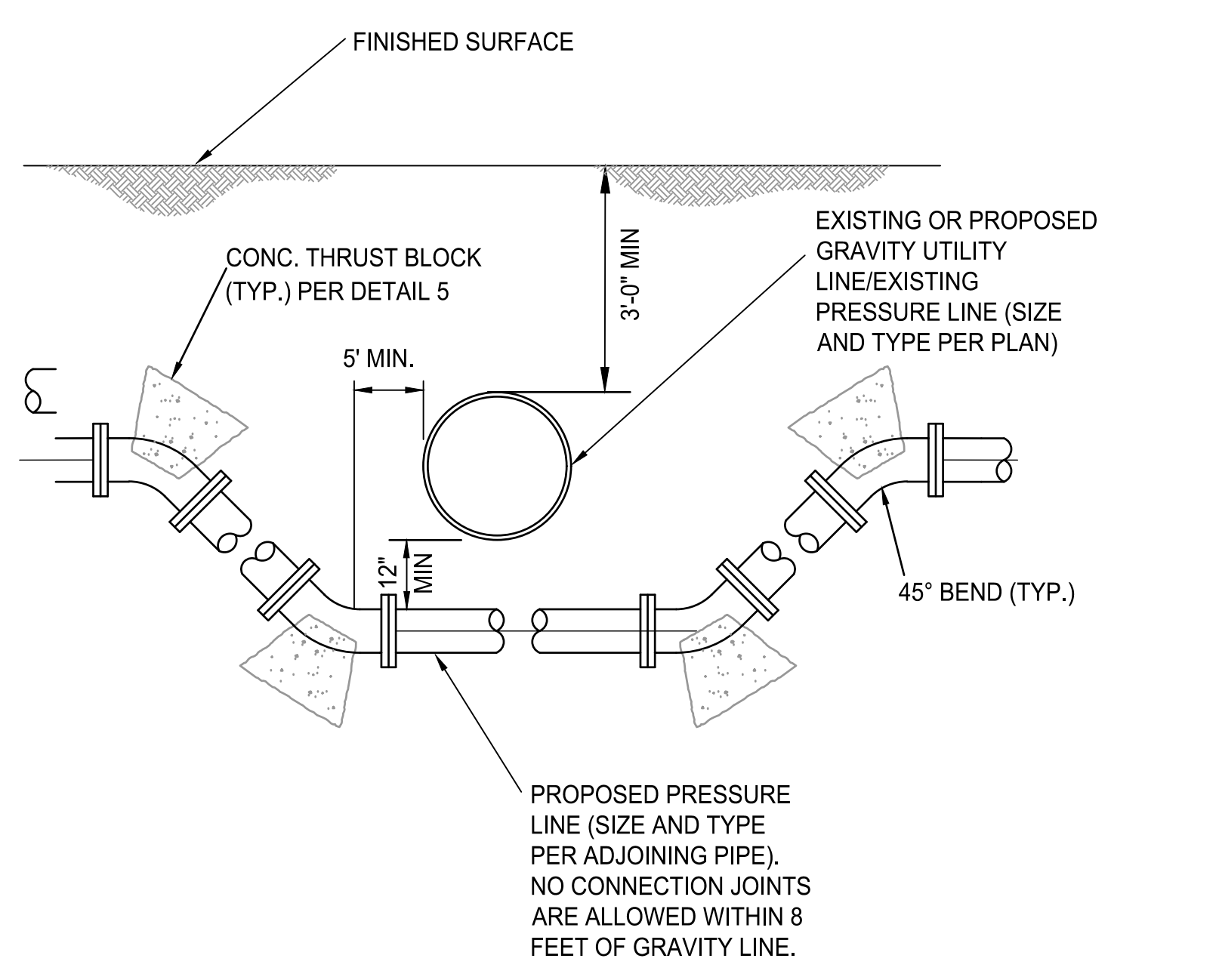


**9 PIPE BEDDING AND TRENCH DETAIL**  
 C6-1.1 REF. C4-1.2 N.T.S. SCALE:

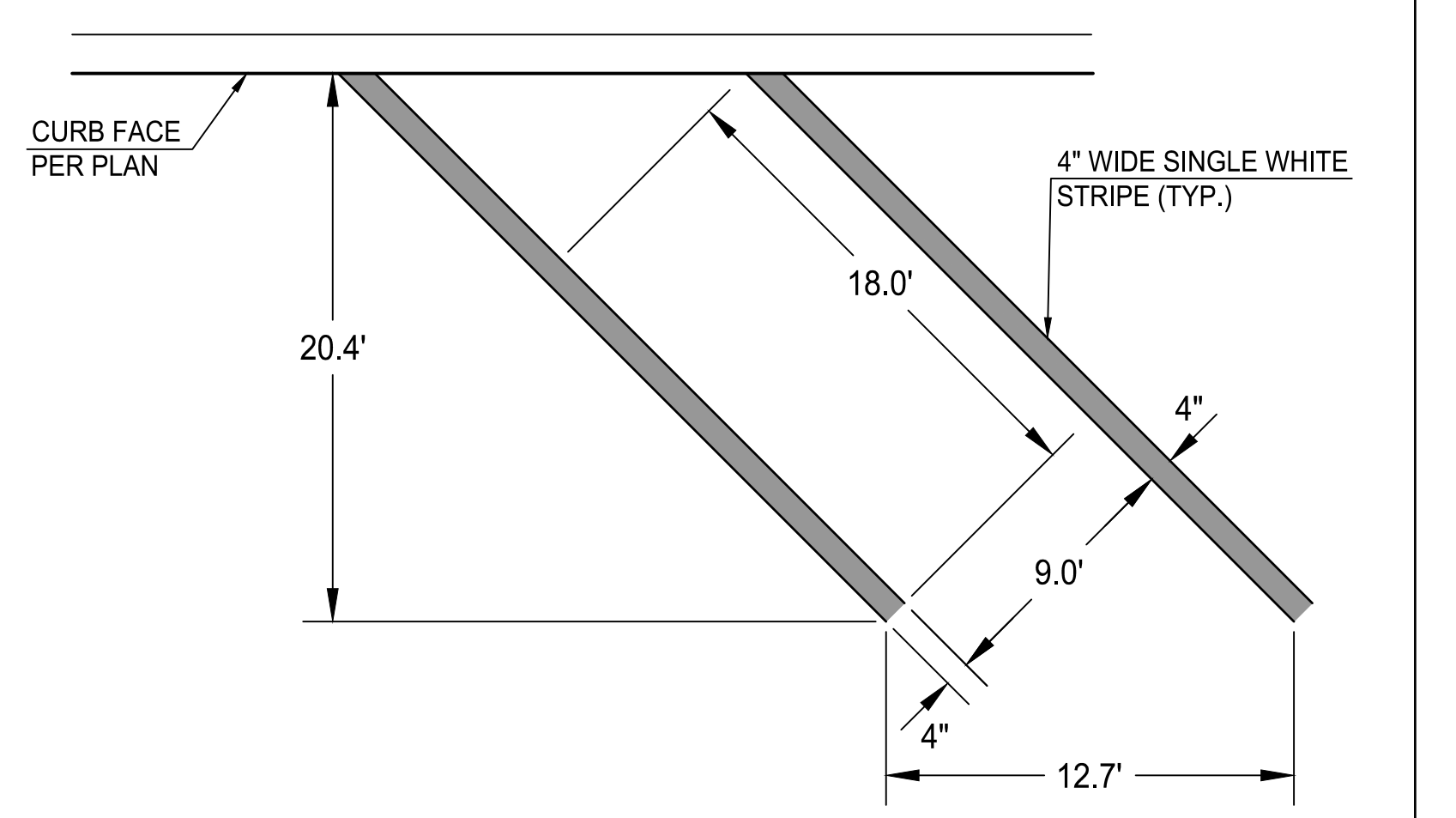


- NOTES:**
- PREFABRICATED P.C. CONCRETE - 3500 PSI.
  - SALVAGE ALL EXISTING CONCRETE WHEEL STOPS AT THE DIRECTION OF THE DISTRICT.

**8 CONCRETE WHEEL STOP**  
 C6-1.1 REF. C2-1.1 N.T.S. SCALE:



**6 UTILITY CROSSING DETAIL**  
 C6-1.1 REF. C4-1.2 SCALE: N.T.S.



**7 PARKING SPACE STRIPING**  
 C6-1.1 REF. C2-1.1 N.T.S. SCALE:

**6 UTILITY CROSSING DETAIL**  
 C6-1.1 REF. C4-1.2 SCALE: N.T.S.



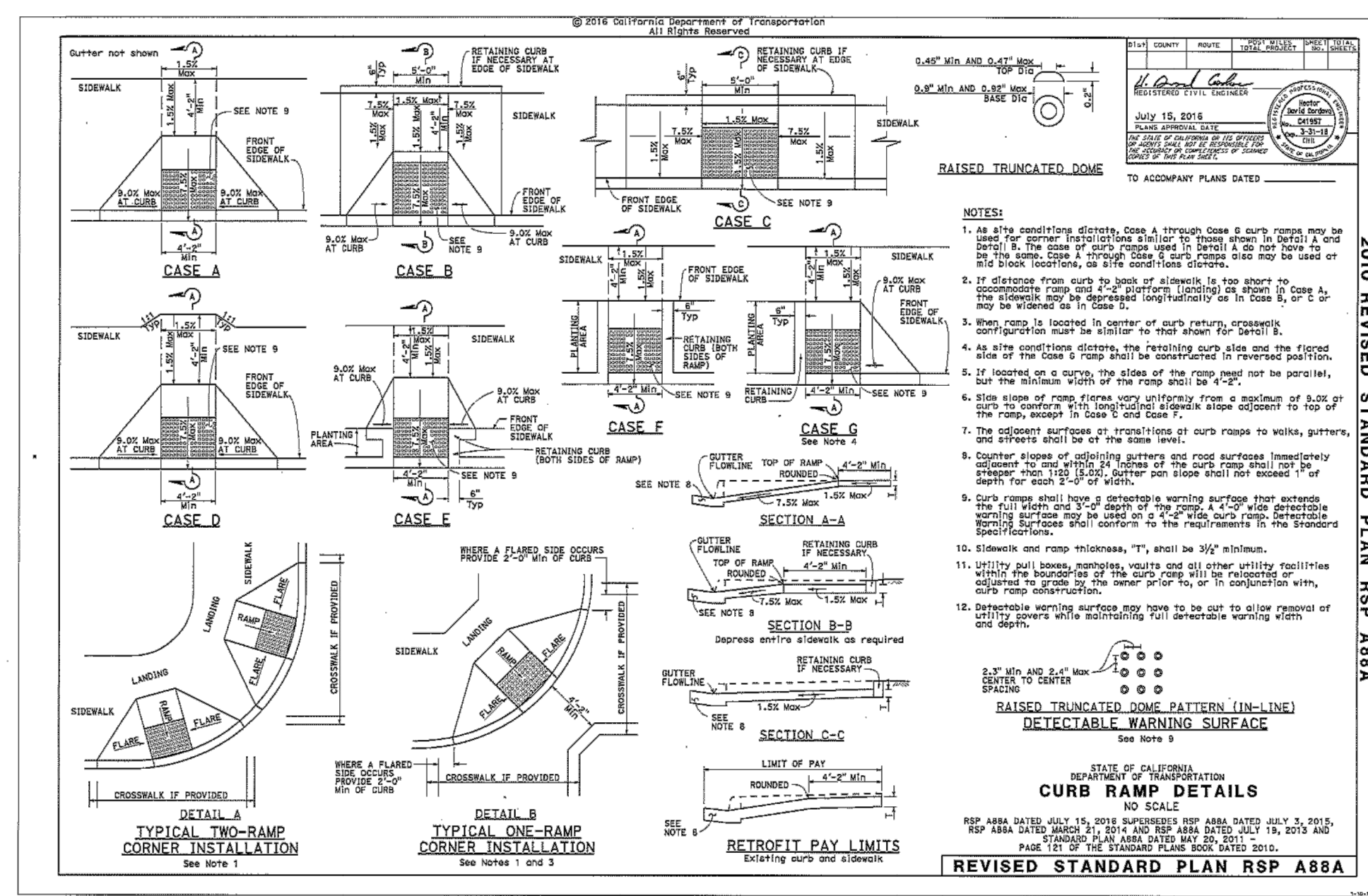
ISSUED FOR:	11/18/2017
SCHEMATIC DESIGN	09/12/2018
DESIGN DEVELOPMENT	09/12/2018
CONSTRUCTION DOCUMENTS	12/07/2018
50% CD	11/09/2018
90% CD	12/10/2018
DSA SUBMITTAL	12/21/2018
DSA BACKCHECK	5/08/2019

REVISIONS:

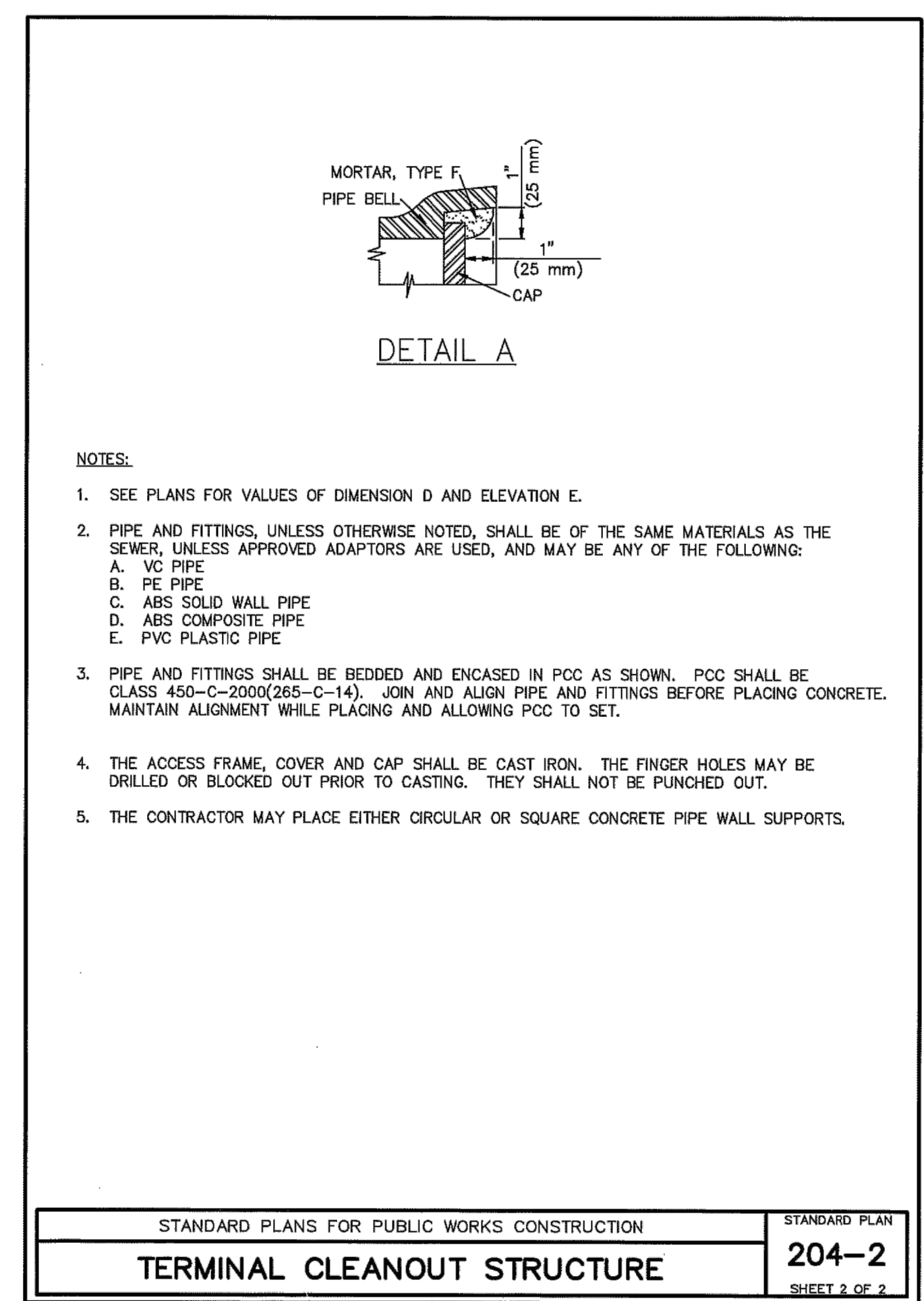
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SHEET TITLE:  
**CONSTRUCTION DETAILS**  
 SHEET NUMBER:  
**C6-1.2**

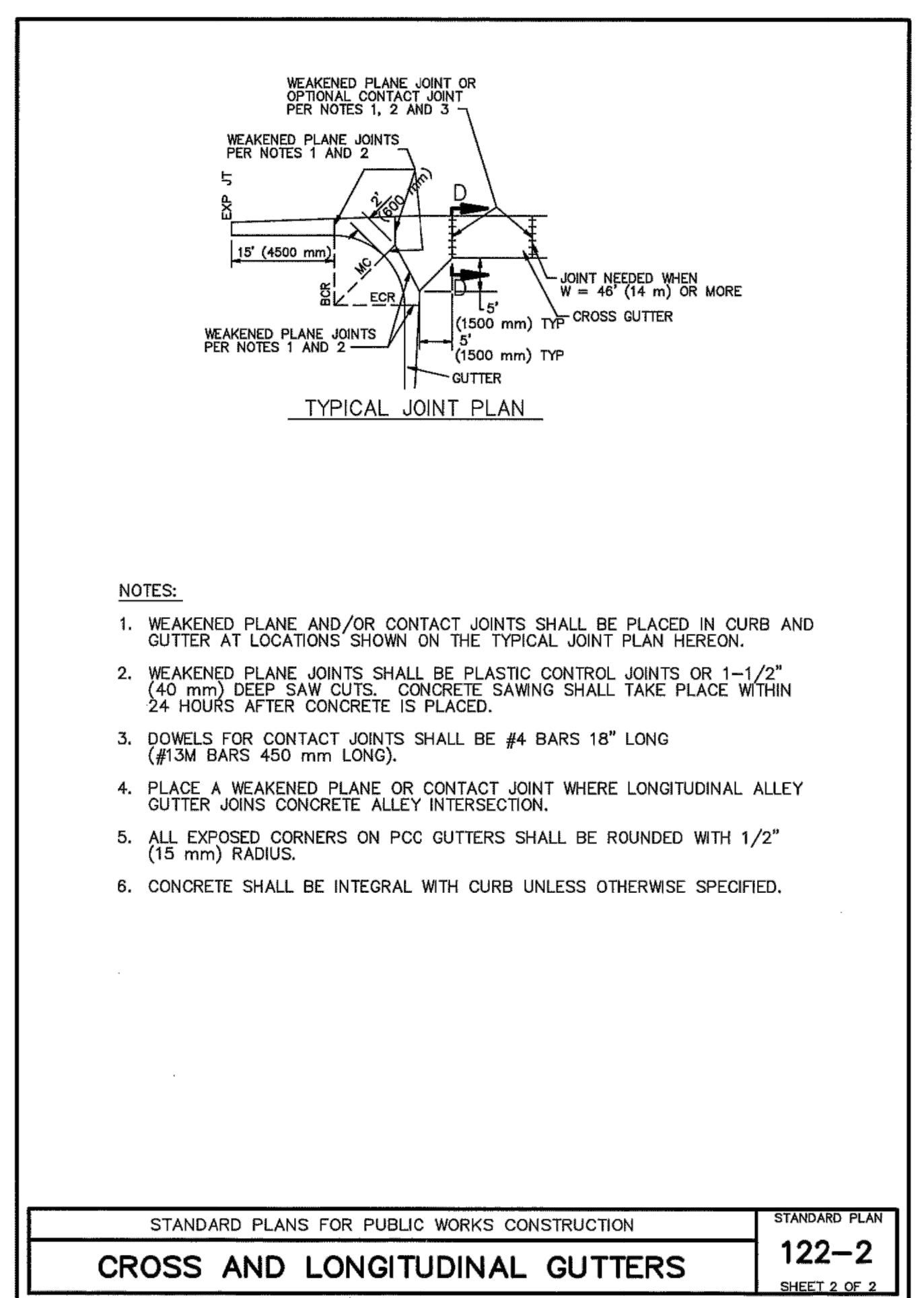
WD PROJ # 18413 | DRAWN BY YL | CHECKED JU | DATE 5/08/2019



**11 CALTRANS REVISED CURB RAMP DETAIL RSP A88A**  
 C6-1.1 REF. C3-1.1 SCALE: N.T.S.



**9 SPPWC TERMINAL CLEANOUT STRUCTURE 120-2**  
 C6-1.1 REF. C3-1.1 SCALE: N.T.S.



**8 SPPWC AND LONGITUDINAL GUTTERS 122-2**  
 C6-1.1 REF. C3-1.1 SCALE: N.T.S.

**FLOOR DRAINS • Bodies Only**

**JOSAM**

**30000-TSO SERIES BODY ASSEMBLY WITH THREADED SIDE OUTLET**

**APPLICATION**  
 For use with all adjustable strainers. Wide flange anchors drain body in concrete and works in conjunction with the clamp collar to redirect waste through the collar's weepholes if leakage occurs around the strainer. The WELODC® clamp provides a non-puncturing positive bond of the waterproofing membrane to the drain body for applications where floors with standing water are to be sealed off from areas below. Integral threaded side outlet allows for installation in shallow slabs.

**SPECIFICATION**  
 JOSAM 30000-TSO Series coated cast iron floor drain, two-piece body with double drainage flange, integral threaded side outlet, WELODC® non-puncturing flanging collar with weepholes, threaded to receive a JOSAM adjustable strainer.

**Available Options**  
 -ARE Acid-Resisting Epoxy  
 -49 3/4" Primer Tap  
 -50 1/2" Primer Tap  
 -92 Galvanized Cast Iron Parts

**OUTLET:**  
 -T50 Threaded Side Outlet

TYPE NO.	PIPE SIZE	A	B	C	D	LBS.
30002-TSO	2	3	9-1/8	4-5/8	4	15
30003-TSO	3	2-1/2	9-1/8	4-5/8	4	15
30004-TSO	4	3-1/4	10-1/4	6	4-1/4	15

**30002-ST SERIES BODY ASSEMBLY WITH SHALLOW TRAP**

**APPLICATION**  
 For use with all adjustable strainers. Wide flange anchors drain body in concrete and works in conjunction with the clamp collar to redirect waste through the collar's weepholes if leakage occurs around the strainer. The WELODC® clamp provides a non-puncturing positive bond of the waterproofing membrane to the drain body for applications where floors with standing water are to be sealed off from areas below. The collar is also invertible for extra vertical strainer adjustment to meet finished floor level in areas such as showers. Low profile trap provides water seal in shallow floor slabs.

**SPECIFICATION**  
 JOSAM 30002-ST Series coated cast iron floor drain, two-piece body with double drainage flange and 1/2" primer tap with plug, WELODC® invertible non-puncturing flanging collar with weepholes threaded to receive a JOSAM adjustable strainer, bottom outlet threaded connection to low profile P trap.

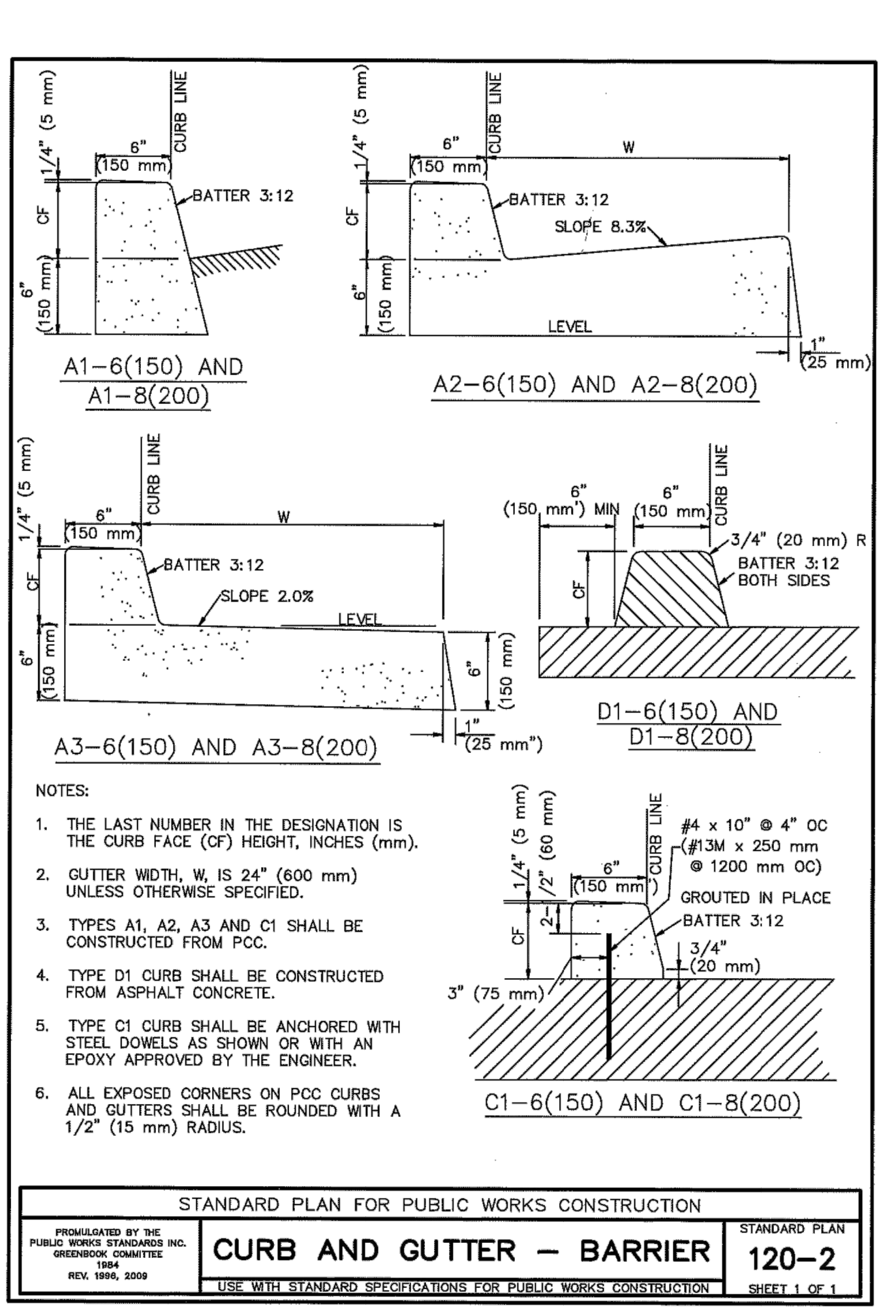
**Available Options**  
 -ARE Acid-Resisting Epoxy  
 -49 3/4" Primer Tap  
 -1/2" Primer Tap, Std.  
 -92 Galvanized Cast Iron Parts

**OUTLET:**  
 -1 Threaded Outlet  
 -2 No-Hub Outlet

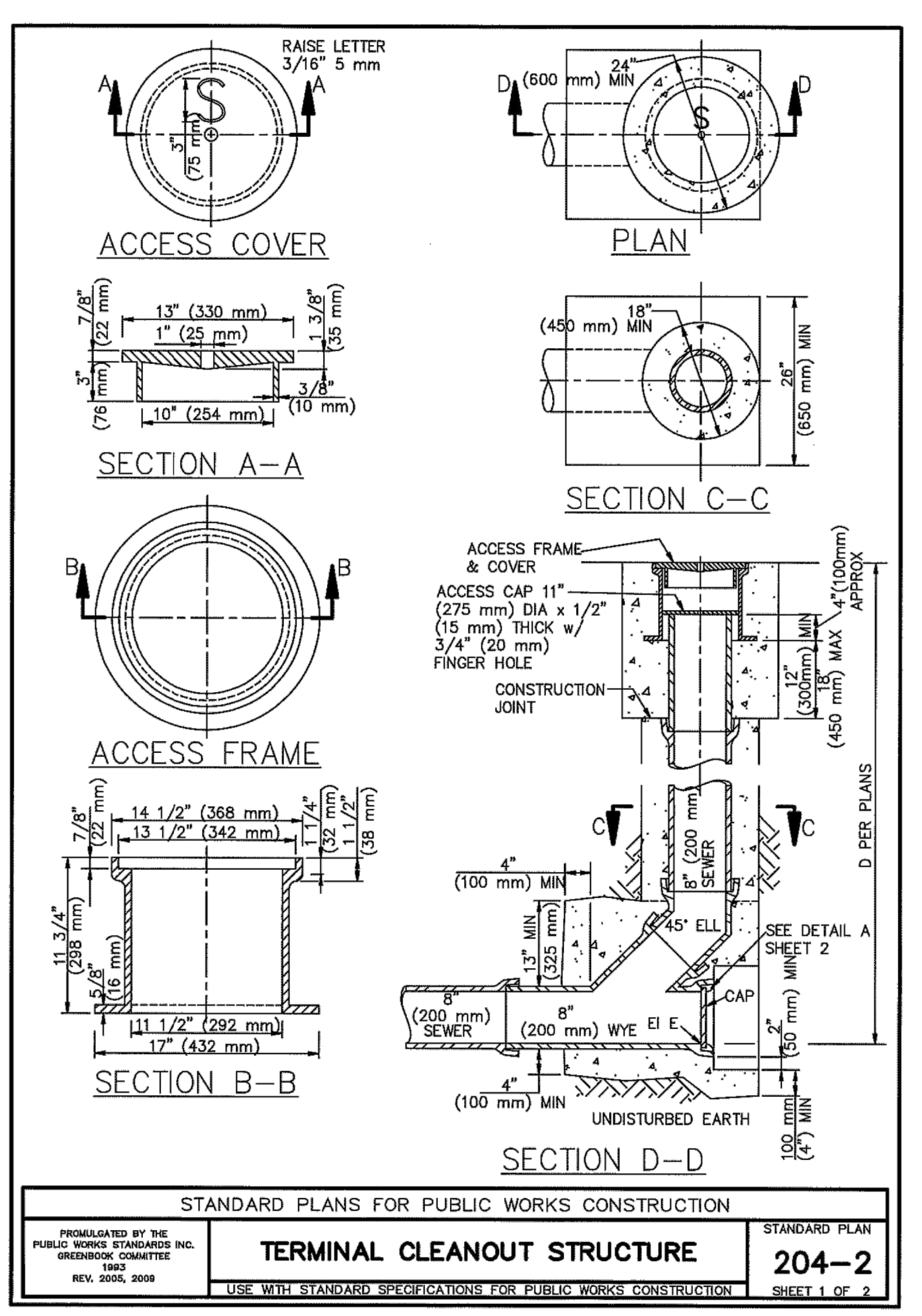
TYPE NO.	PIPE SIZE	LBS.
30002-ST	2	17

FOR OUTLET TYPE SPECIFY T or Z

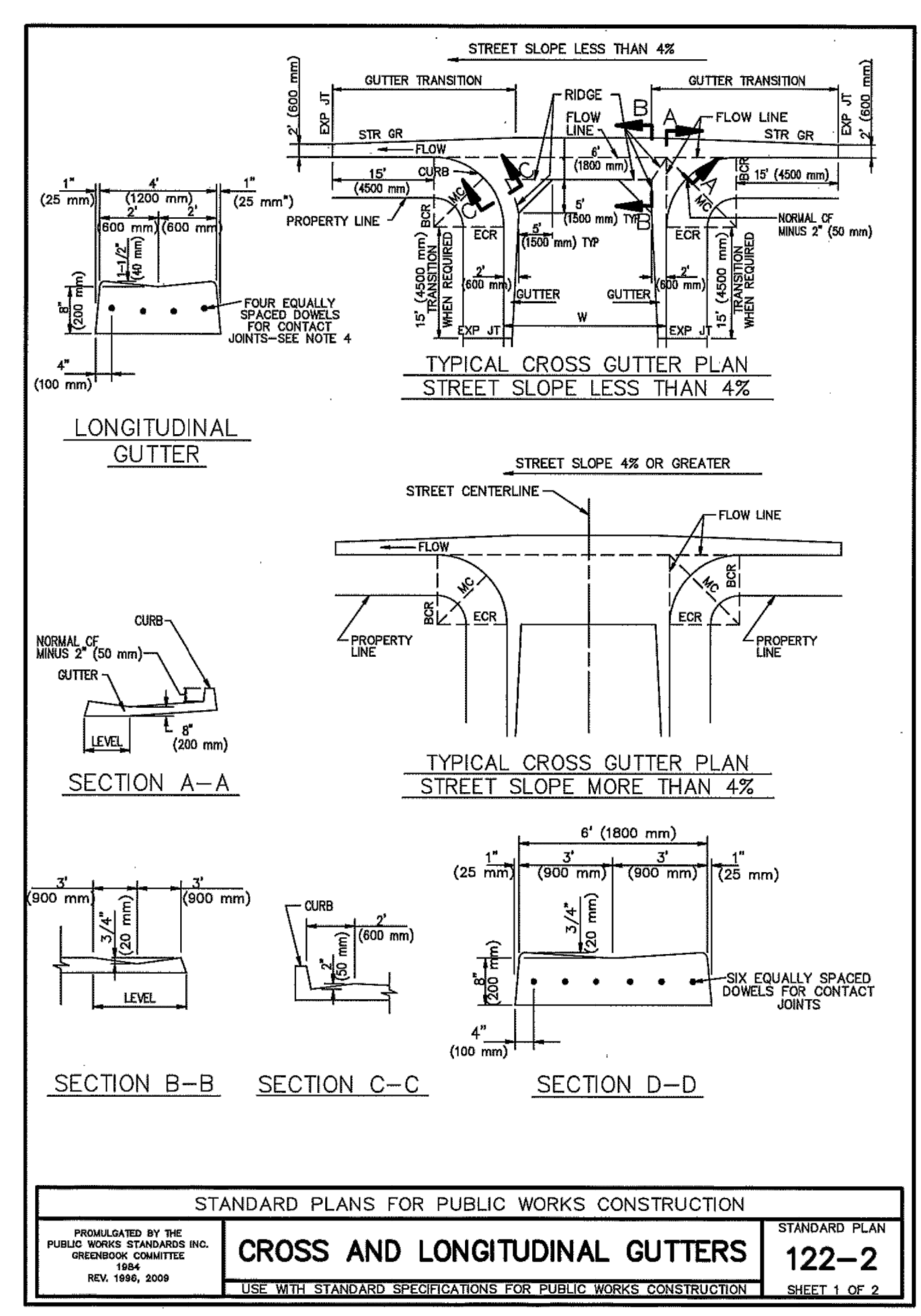
**12 JOSAM FLOOR DRAIN DETAIL**  
 C6-1.1 REF. C4-1.2 SCALE: N.T.S.



**10 SPPWC CURB AND GUTTER 120-2**  
 C6-1.1 REF. C3-1.1 SCALE: N.T.S.



**9 SPPWC TERMINAL CLEANOUT STRUCTURE 120-2**  
 C6-1.1 REF. C3-1.1 SCALE: N.T.S.



**8 SPPWC AND LONGITUDINAL GUTTERS 122-2**  
 C6-1.1 REF. C3-1.1 SCALE: N.T.S.

NOT FOR CONSTRUCTION