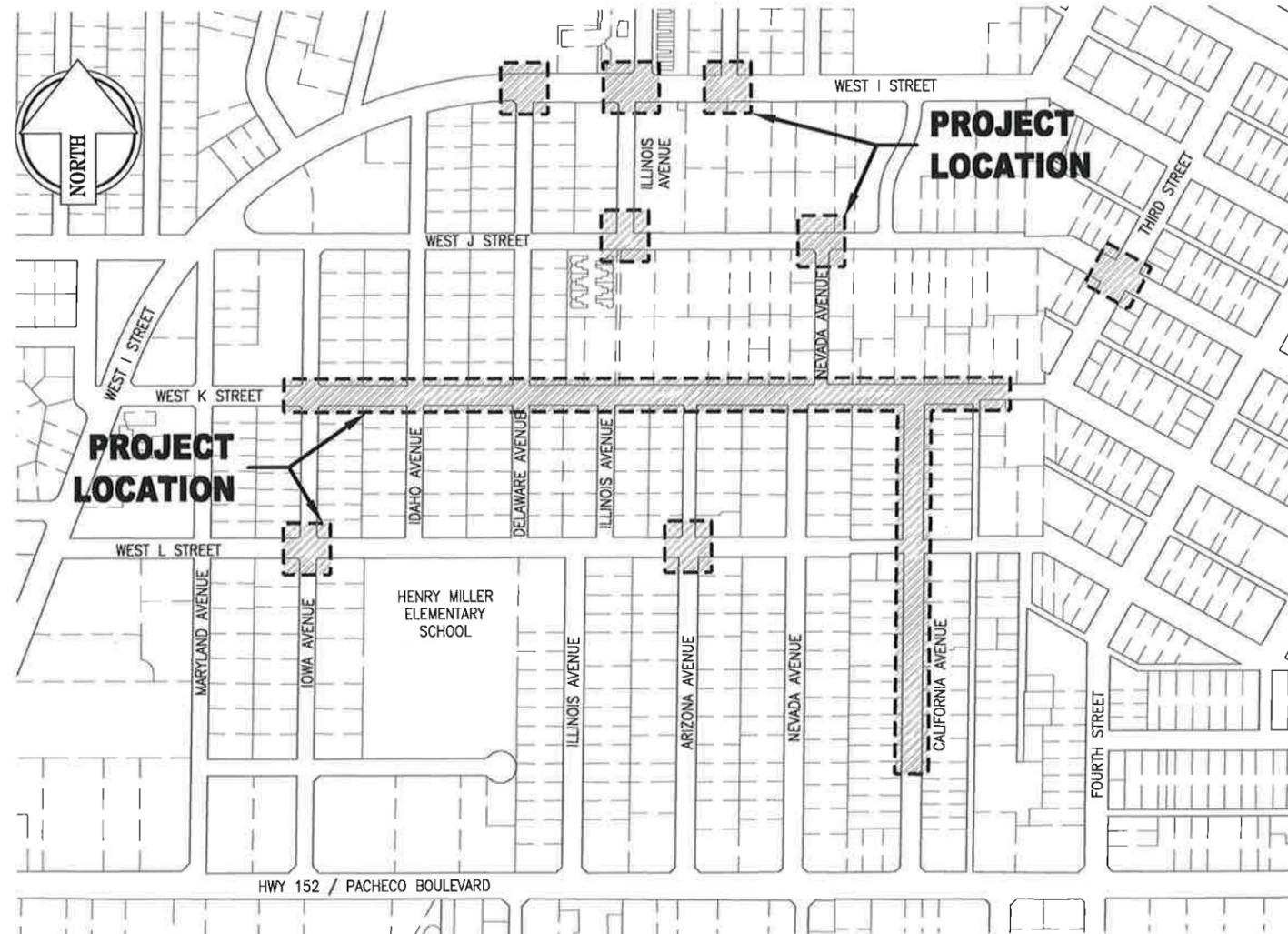


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**PROJECT PLANS FOR CONSTRUCTION OF
K STREET
STORM DRAIN IMPROVEMENTS
CITY OF LOS BANOS**



BENCHMARK

VERTICAL AND HORIZONTAL DATUM:

VERTICAL AND HORIZONTAL DATUM INFORMATION WAS TAKEN FROM THE NGS DATA SHEET FOR PID HS5126.
VERTICAL DATUM: NAVD88
ELEVATION: 120.96'
HORIZONTAL DATUM: NAD83-2011, CALIFORNIA SPCS, ZONE 3

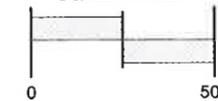
DESCRIPTION: STATION IS LOCATED ON THE EAST SIDE OF LOS BANOS, AT THE LOS BANOS MUNICIPAL AIRPORT, IN THE MEDIAN OF THE RUNWAY AND THE PARALLEL TAXI, NEAR THE FRONT VASI FOR RUNWAY 32. TO REACH THE JUNCTION OF STATE HIGHWAY 152 AND WEST I STREET ON THE WEST SIDE OF LOS BANOS, GO NORTHEAST ON WEST I STREET FOR 0.06 MI TO A PAVED ROAD LEFT. TURN LEFT, SOUTHWEST, ON PAVED ROAD FOR 0.25 MI TO A LOCKED GATE ON THE RIGHT. TURN RIGHT, NORTHEAST, THROUGH GATE, PASSING TO RIGHT OF FUEL PUMPS, ACROSS APRON FOR 0.05 MI TO THE PARALLEL TAXI. TURN LEFT, NORTHWEST, ON TAXI FOR 0.06 MI TO THE STATION ON THE RIGHT. STATION MARK IS SET IN THE TOP OF A 30-CM ROUND CONCRETE POST FLUSH WITH THE GROUND ON A SLIGHT HUMP IN A BARE AREA. IT IS 142.1 FT SOUTHWEST OF THE RUNWAY CENTER, 103.3 FT NORTHEAST OF THE EDGE OF THE APRON/TAXI, 26.6 FT SOUTHWEST OF THE SOUTH CORNER OF THE CONCRETE PAD FOR THE OUTBOARD VASI, 73.8 FT NORTHWEST OF THE EXTENDED SOUTHEAST WALL OF A HANGAR AND 1.3 FT NORTHWEST OF A FIBERGLASS WITNESS POST.

UTILITY CONTACTS

PG&E- STEVE MURPHY MAIN (209) 726-6338
3185 M STREET CELL (209) 363-2216
MERCED, CA 95348

AT&T- TROY BRANIFF MAIN (209) 726-7137
1860 W WARDROBE AVE
MERCED, CA 95341

SCALE IN FEET



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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
LOCATION MAP AND INDEX OF DRAWINGS

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-101
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 1
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

GENERAL NOTES

- EXISTING UTILITY LOCATIONS ARE SHOWN BASED ON USA MARKINGS COLLECTED IN THE FIELD AND RECORD INFORMATION, ACTUAL BUILT LOCATIONS MAY VARY. THE ENGINEER DOES NOT GUARANTEE THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS TO BE EITHER TRUE OR EXACT. THE CONTRACTOR SHALL VERIFY ACTUAL DEPTH AND EXACT LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATION ACTIVITIES. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING IN AREAS NEAR NATURAL GAS, TV, PHONE, AND OTHER EXISTING UTILITIES AND IS RESPONSIBLE FOR ALL COSTS RELATED TO DAMAGED LINES OR DISRUPTION OF SERVICE CAUSED BY ANY ACTIVITIES AS THEY RELATE TO THIS PROJECT.
- CONTRACTOR SHALL BE AWARE OF EXISTING OVERHEAD UTILITY LINES AND SHALL EXERCISE CAUTION WHILE WORKING NEAR SUCH LINES. OVERHEAD UTILITY LINES HAVE BEEN OMITTED FROM PLANS FOR CLARITY PURPOSES.
- CONTRACTOR SHALL EXERCISE CARE TO MINIMIZE DAMAGE TO FACILITIES ADJACENT TO PROJECT IMPROVEMENTS SUCH AS EQUIPMENT, FENCING, CONCRETE FLATWORK, LANDSCAPING, LANDSCAPE IRRIGATION, ECT., DESIGNATED TO REMAIN.
- EXISTING FENCES THAT REQUIRE RELOCATION SHALL BE RESTORED IN KIND TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION OR BETTER AT NO EXTRA COST TO THE CITY. SOME FENCING MATERIAL MAY NEED TO BE PURCHASED TO REPLACE OR FABRICATED FENCES AND HAVE PAINT TOUCHED UP.
- ANY FACILITIES DAMAGED BY THE CONTRACTOR SHALL BE RESTORED IN KIND AT NO COST TO THE CITY TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION OR BETTER. DISTURBED AND DAMAGED SURFACES SHALL BE RESTORED AFTER ALL CONSTRUCTION IS COMPLETE AND PRIOR TO CITY ACCEPTANCE.
- UTILITY CONFLICTS ARE TO BE WORKED OUT IN THE FIELD WITH THE PROJECT ENGINEER AND CITY REPRESENTATIVE.
- CITY UTILITY INTERRUPTIONS/SHUTDOWNS SHALL BE COORDINATED WITH THE CITY TWO FULL BUSINESS DAYS IN ADVANCE OF THE PROPOSED SHUTDOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER SERVICES TO RESIDENTS AT ALL TIME EXCEPT WHEN INTERRUPTION IS REQUIRED FOR SERVICE TRANSFER.
- EXISTING FIRE HYDRANTS TO BE REMOVED SHALL BE SALVAGED AND BECOME PROPERTY OF THE OWNER.
- WHERE THE EDGE OF THE TRENCH SECTION PARALLELS THE EXISTING CURB AND GUTTER AND IS WITHIN 18" OF THE EXISTING LIP OF GUTTER, THE PAVEMENT SHALL BE REMOVED AND REPLACED TO THE LIP OF GUTTER. REPLACE AB DISTURBED BY CONSTRUCTION.
- IN INSTANCES WHERE PAVING EXTENDS BEYOND THE LIMITS OF THE TRENCH PATCH, IMPACTED FACILITIES SUCH AS EXISTING UTILITY FRAMES AND COVERS SHALL BE RAISED TO GRADE AT NO EXTRA COST.
- CONSTRUCTION TRENCHES THAT ARE REQUIRED TO REMAIN OPEN OVERNIGHT MUST HAVE STEEL TRAFFIC PLATE(S) SECURELY INSTALLED WITH A TEMPORARY ASPHALT TRANSITION ALONG ALL EDGES CAPABLE OF HANDLING VEHICLE TRAFFIC FOR THE TIME PERIOD THE PLATE IS IN PLACE.
- MAINTAIN A MINIMUM CLEARANCE OF 12 INCHES AT ALL UTILITY CROSSINGS. CONTRACTOR SHALL COMPLY WITH WATER AND SEWER SEPARATION REQUIREMENTS PER CITY OF LOS BANOS STANDARDS AND DEPARTMENT OF WATER RESOURCES, DRINKING WATER PROGRAM REGULATIONS UNLESS OTHERWISE NOTED ON THESE PLANS.
- AT THE END OF EACH DAY OR AS DIRECTED BY THE OWNER, THE CONTRACTOR SHALL SWEEP ROADWAYS OF ALL DEBRIS AND EXCESS MATERIAL ATTRIBUTED TO THE CONTRACTOR'S OPERATIONS. UNLESS OTHERWISE APPROVED BY THE OWNER, MECHANICAL STREET SWEEPERS WITHOUT DEBRIS STORAGE COMPARTMENTS WILL NOT BE ALLOWED.
- UNLESS OTHERWISE APPROVED BY THE OWNER, TARPS OR OTHER EFFECTIVE COVERS ARE REQUIRED ON ALL STOCKPILED MATERIAL AND ON ALL HAUL TRUCKS TO MINIMIZE DUST.

GENERAL NOTES (Continued)

- IF SPRINKLERS/IRRIGATION SYSTEMS NEED TO BE REMOVED, RELOCATED, OR ARE DAMAGED AS A DIRECT OR INDIRECT RESULT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CAP AND FLAG THE SPRINKLER LINE BEHIND THE PROPOSED IMPROVEMENTS, AND SHALL RESTORE THE SYSTEM TO ITS PRE-CONSTRUCTION CONDITION AS SOON AS POSSIBLE IN ORDER TO MINIMIZE DOWN TIME AND DAMAGE TO LANDSCAPING AT NO EXTRA COST TO THE CITY.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING GRASS, TREES, STUMPS, ALL ROOTS, AND ALL OTHER SURFACE AND SUBSURFACE DELETERIOUS MATERIALS AS REQUIRED FOR CONSTRUCTION. IF THE CITY DETERMINES THAT TREES THAT WERE NOT IDENTIFIED ON THE PLANS NEED TO BE REMOVED DURING THE TIME OF CONSTRUCTION, THE CITY WILL BE RESPONSIBLE FOR REMOVING SAID TREES.

ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
±	PLUS OR MINUS (NOT EXACT)
ⓐ	AT
AB	AGGREGATE BASE
ABDN	ABANDONED
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AP	ANGLE POINT
BC	BEGINNING OF CURVE
BNDY	BOUNDARY
BP	BYPASS
BOW	BACK OF SIDEWALK
CL	CENTERLINE
C&G	CURB AND GUTTER
CB OR CBSN	CATCH BASIN
CLR	CLEAR
CO	CLEAN OUT
CLB	CITY OF LOS BANOS
C OR CONC	CONCRETE
CONT	CONTINUOUS
CORP	CORPORATION
D OR SD	STORM DRAIN
Ø OR DIA	DIAMETER
EA	EACH
EC	END OF CURVE
EG	EXISTING GROUND
EL	ELBOW
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQ	EQUAL OR EQUIVALENT
EX OR EXIST	EXISTING
EW	EACH WAY
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FT	FOOT OR FEET
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HORIZ	HORIZONTAL
HP	HIGH POINT
ID	INSIDE DIAMETER
INV	INVERT
IRR	IRRIGATION
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
MH	MAINTENANCE HOLE
MIN	MINIMUM
N	NORTH
NO OR #	NUMBER
NTS	NOT TO SCALE
OC OR O.C.	ON CENTER
OD	OUTSIDE DIAMETER
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH
PT	POINT
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS
R/W	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
SW	SIDEWALK
SCH	SCHEDULE
SDMH	STORM DRAIN MAINTENANCE HOLE
SF	SQUARE FEET
SHT	SHEET
SQ	SQUARE
SS OR S	SANITARY SEWER
SSMH	SANITARY SEWER MAINTENANCE HOLE
STA	STATION
STD	STANDARD
TEMP	TEMPORARY
TYP	TYPICAL
VERT	VERTICAL
W	WATER
WV	WATER VALVE

LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS LINE	--- COM ---	
OVERHEAD UTILITY LINE	--- OHL ---	
POWER POLE		
SERVICE POLE		
STREET LIGHT		
GAS VALVE		
GAS LINE	--- G ---	
WATER METER		
SEWER CLEAN OUT		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
DRAIN INLET		
STREET SIGN		
MONUMENT WELL		
CONTOUR ELEVATION	109.50	
SPOT ELEVATION		97.60 AC
SAWCUT LINE		
FIRE HYDRANT		
PIPE LINE PLUG		
WATER VALVE		
AREA OF AC REMOVAL		
ASPHALT CONCRETE		
AREA OF CONCRETE REMOVAL		
CONCRETE		

FOR CLARITY PURPOSES SYMBOLS SHOWN IN THE LEGEND MAY APPEAR SMALLER THAN SHOWN ON THE PLANS.



May 05, 2017 - 10:44am
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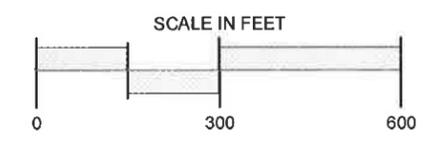
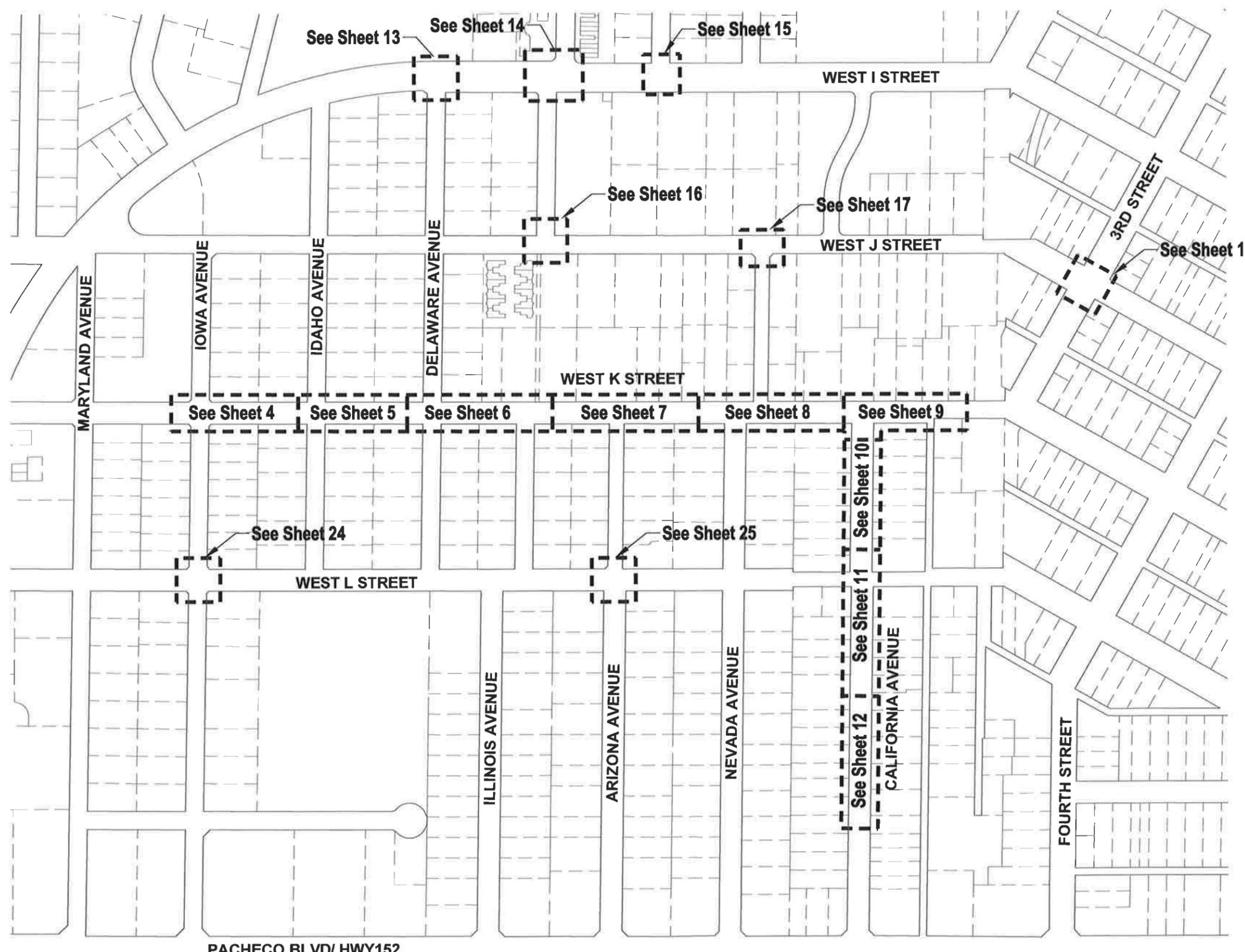
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
GENERAL NOTES, ABBREVIATIONS,
AND LEGEND

DESIGNED BY	DATE	DRAWING
N. FONTAINE	03/01/17	C-102
DRAWN BY	DATE	SHEET
N. FONTAINE	03/01/17	2
CHECKED BY	DATE	OF 31 SHEETS
M. GOUVEIA	04/26/17	PROJECT NUMBER
APPROVED	DATE	835.03
M. GOUVEIA	04/26/17	



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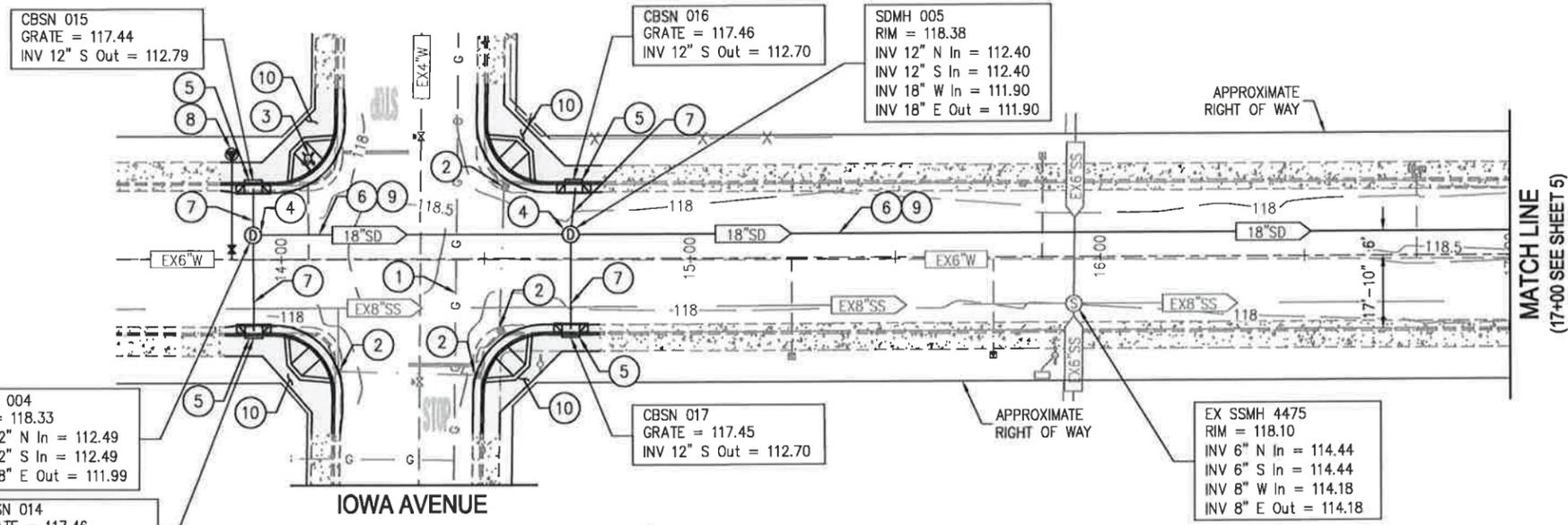
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
KEY SHEET

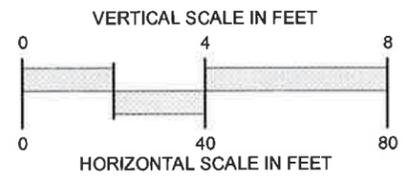
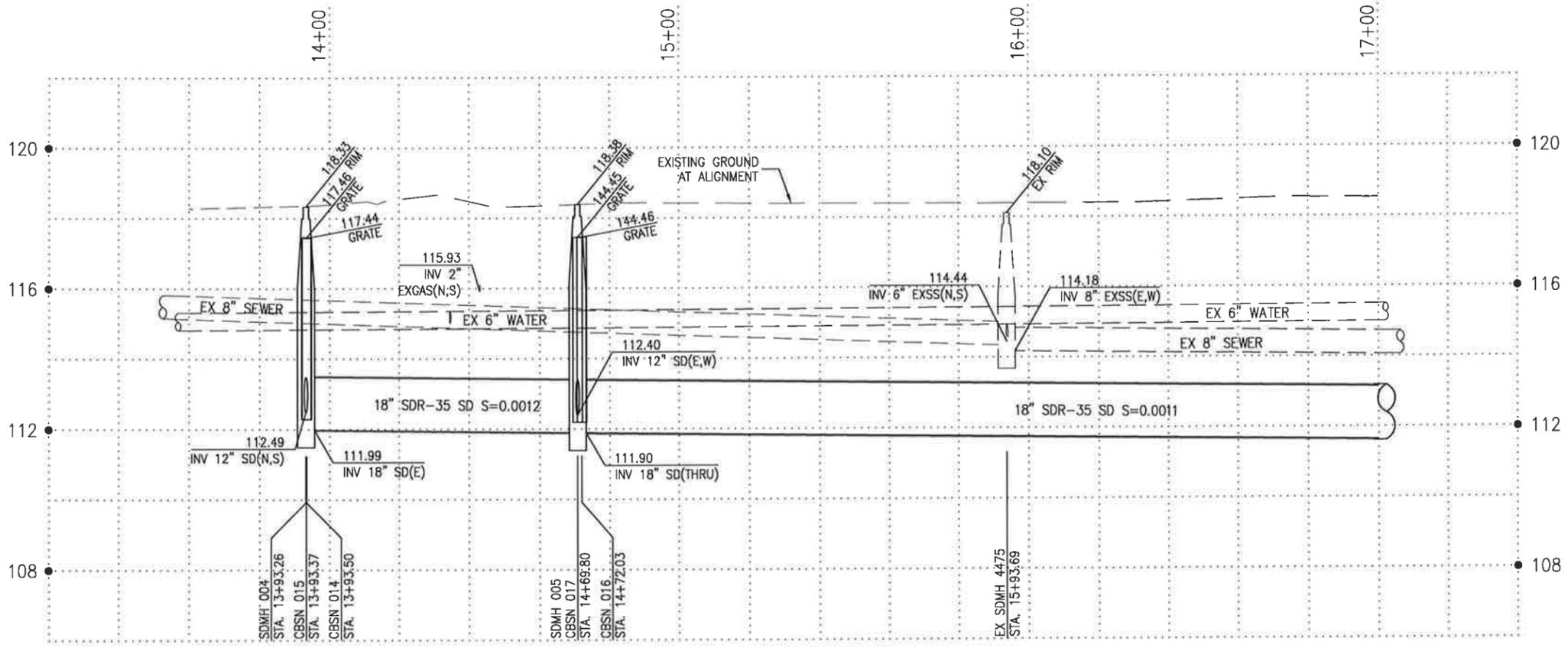
DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-103
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 3
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03



WEST K STREET
STATION 13+60 - 17+00

CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.	
2	REMOVE EXISTING CATCH BASIN AND EXISTING PIPE AS REQUIRED TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.	2/26
3	EXISTING FIRE HYDRANT AND PIPE TO BE REMOVED, INCLUDING 90 DEGREE ELBOW. INSTALL CAP AT END OF PIPE TO REMAIN AND CONSTRUCT THRUST BLOCK.	3/27
4	CONSTRUCT STORM DRAIN MANHOLE.	1/28
5	CONSTRUCT STORM DRAIN CATCH BASIN.	1/26
6	INSTALL 18" SDR-35 STORM DRAIN PIPE.	1/26
7	INSTALL 12" SDR-35 STORM DRAIN PIPE.	1/26
8	INSTALL NEW FIRE HYDRANT ASSEMBLY.	2/28
SURFACE IMPROVEMENTS		
9	REMOVE AND REPLACE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND 3" IN DEPTH. TRENCH AREA EDGES ARE TO BE SAWCUT OR PROFILED.	1/26
10	PROPOSED SURFACE IMPROVEMENTS.	1/19

ESTIMATED QUANTITIES	
INSTALL 18" STORM DRAIN PIPE	306 LF
INSTALL 12" STORM DRAIN PIPE	68 LF
CONSTRUCT MANHOLE	2 EA
CONSTRUCT CATCH BASIN	4 EA
INSTALL FIRE HYDRANT ASSEMBLY	1 EA



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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
K STREET IMPROVEMENTS
STA. 13+60 TO 17+00

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-104
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 4
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 635.03

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INV 12" W In = 113.00
INV 12" E In = 113.00
INV 36" S In = 110.47
INV 36" N Out = 110.47

EX SDMH 9A
RIM = 118.48
INV 12" SW In = 113.00
INV 12" SE In = 113.00
INV 36" S In = 110.50
INV 36" N Out = 110.50

SDMH 006
RIM = 118.60
INV 18" W In = 111.60
INV 18" E In = 111.17
INV 36" S In = 110.48
INV 36" N Out = 110.48

EX SSMH 4774
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INV 8" W In = 113.66
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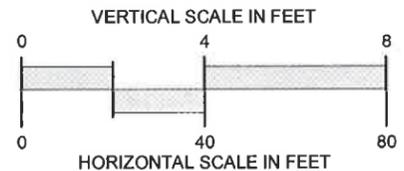
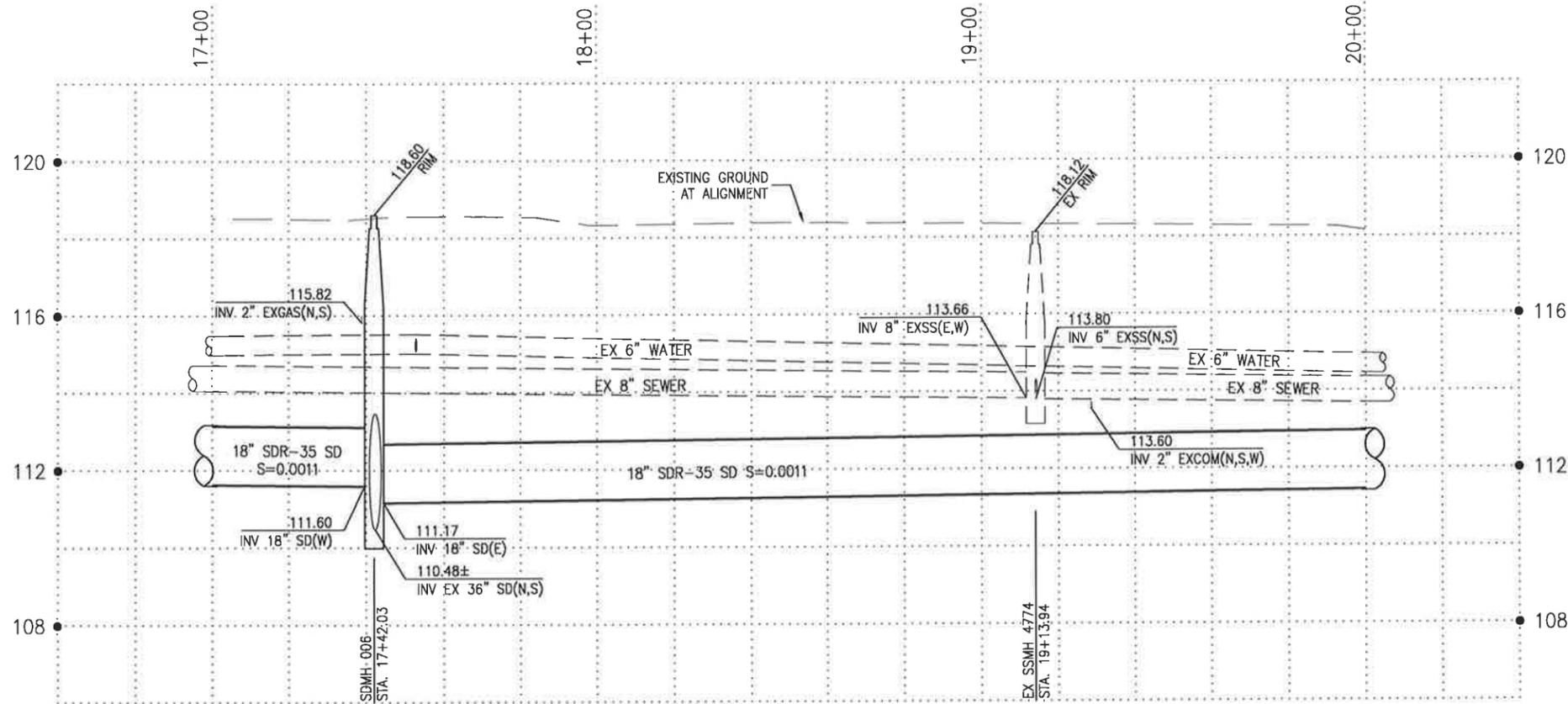
MATCH LINE
(17+00 SEE SHEET 4)

MATCH LINE
(20+00 SEE SHEET 6)

WEST K STREET
STATION 17+00 - 20+00

CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
①	LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.	
②	LOCATE AND PROTECT EXISTING AT&T UTILITY LINE(S).	
③	CONSTRUCT STORM DRAIN MANHOLE OVER EXISTING 36" RCP STORM DRAIN LINE.	① 27
④	INSTALL 18" SDR-35 STORM DRAIN PIPE.	① 26
SURFACE IMPROVEMENTS		
⑤	REMOVE AND REPLACE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND 3" IN DEPTH. TRENCH AREA EDGES ARE TO BE SAWCUT OR PROFILED.	① 26
⑥	REMOVE AND REAPPLY "STOP" MARKING AND STOP BAR.	

ESTIMATED QUANTITIES	
INSTALL 18" STORM DRAIN PIPE	300 LF
CONSTRUCT MANHOLE	1 EA
THERMOPLASTIC MARKINGS	38 SF



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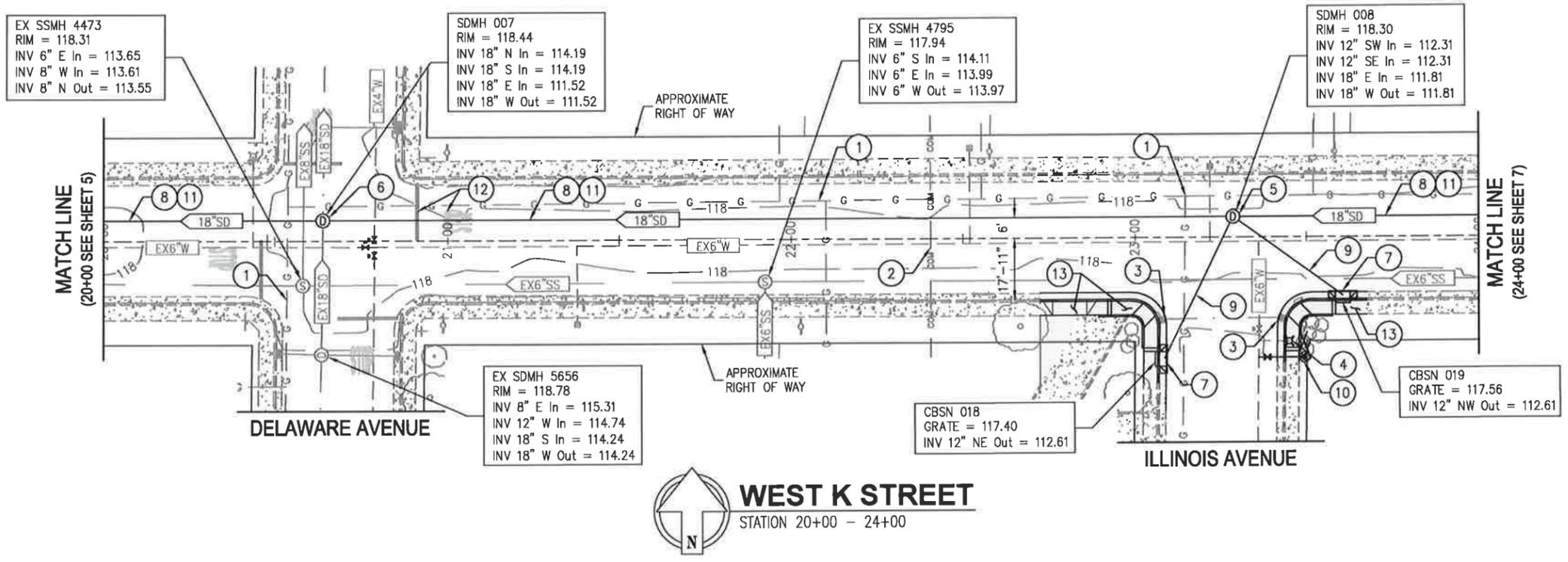
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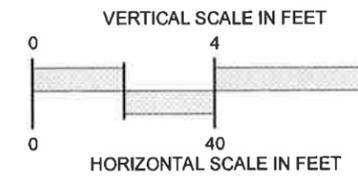
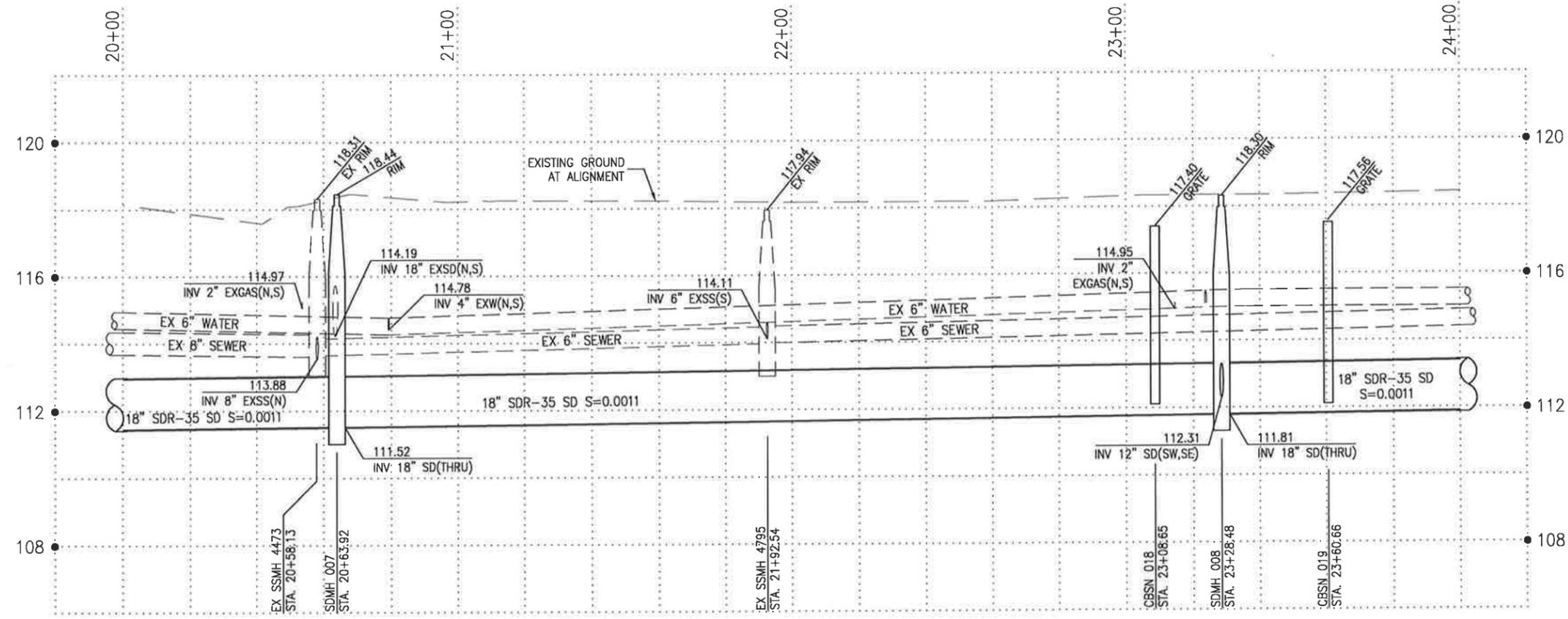
CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
K STREET IMPROVEMENTS
STA. 17+00 TO 20+00

DESIGNED BY	DATE	DRAWING
N. FONTAINE	03/01/17	C-105
DRAWN BY	DATE	SHEET
N. FONTAINE	03/01/17	5
CHECKED BY	DATE	OF 31 SHEETS
M. GOUVEIA	04/26/17	PROJECT NUMBER
APPROVED	DATE	835.03
M. GOUVEIA	04/26/17	



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.	
2	LOCATE AND PROTECT EXISTING AT&T UTILITY LINE(S).	
3	REMOVE EXISTING CATCH BASIN AND PIPE AS REQUIRED TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.	
4	EXISTING FIRE HYDRANT AND PIPE TO BE REMOVED, INCLUDING 90 DEGREE ELBOW. INSTALL CAP AT END OF PIPE TO REMAIN AND CONSTRUCT THRUST BLOCK.	2/26
5	CONSTRUCT STORM DRAIN MANHOLE.	3/27
6	CONSTRUCT STORM DRAIN DROP MANHOLE.	4/27
7	CONSTRUCT STORM DRAIN CATCH BASIN.	1/28
8	INSTALL 18" SDR-35 STORM DRAIN PIPE.	1/26
9	INSTALL 12" SDR-35 STORM DRAIN PIPE.	1/26
10	INSTALL NEW FIRE HYDRANT ASSEMBLY.	2/28
SURFACE IMPROVEMENTS		
11	REMOVE AND REPLACE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND 3" IN DEPTH. TRENCH AREA EDGES ARE TO BE SAWCUT OR PROFILED.	1/26
12	REMOVE AND REAPPLY "STOP" MARKING AND STOP BAR.	
13	PROPOSED SURFACE IMPROVEMENTS.	2/20

ESTIMATED QUANTITIES	
INSTALL 18" STORM DRAIN PIPE	400 LF
INSTALL 12" STORM DRAIN PIPE	95 LF
CONSTRUCT MANHOLE	2 EA
CONSTRUCT CATCH BASIN	2 EA
INSTALL FIRE HYDRANT ASSEMBLY	1 EA
THERMOPLASTIC MARKINGS	38 SF



May 05, 2017 - 10:25am V:\CL\BOS\GIS\GIS\plan\83503C-104.dwg

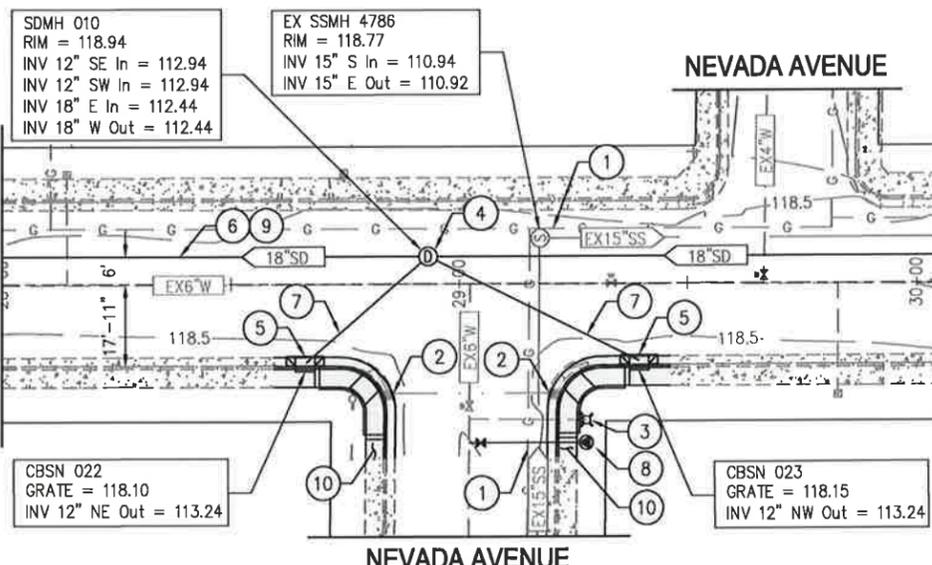
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
K STREET IMPROVEMENTS
STA. 20+00 TO 24+00

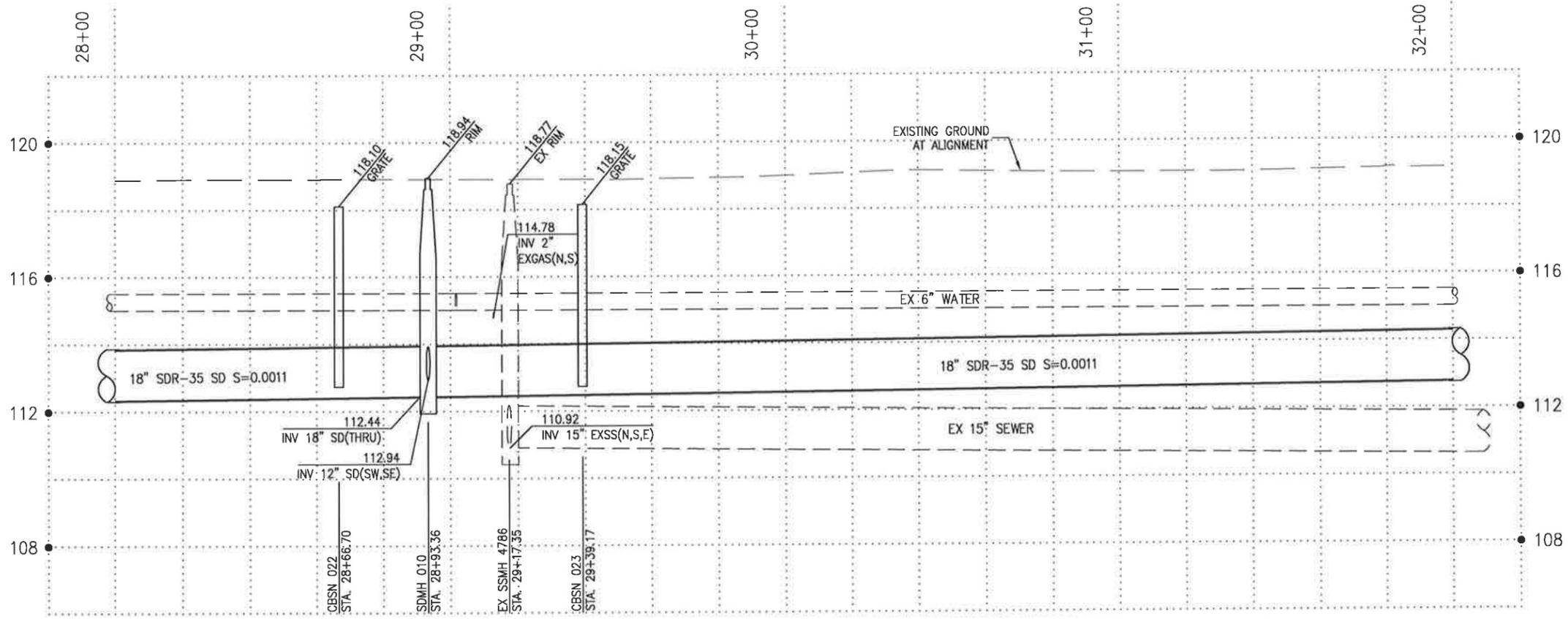
DESIGNED BY	DATE	DRAWING
N. FONTAINE	03/01/17	C-106
DRAWN BY	DATE	SHEET
N. FONTAINE	03/01/17	6
CHECKED BY	DATE	OF 31 SHEETS
M. GOUVEIA	04/26/17	PROJECT NUMBER
APPROVED	DATE	835.03
M. GOUVEIA	04/26/17	




WEST K STREET
 STATION 28+00 - 32+00

CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.	
2	REMOVE EXISTING CATCH BASIN AND PIPE AS REQUIRED TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.	
3	EXISTING FIRE HYDRANT AND PIPE TO BE REMOVED, INCLUDING 90 DEGREE ELBOW. INSTALL CAP AT END OF PIPE TO REMAIN AND CONSTRUCT THRUST BLOCK.	2/28
4	CONSTRUCT STORM DRAIN MANHOLE.	3/27
5	CONSTRUCT STORM DRAIN CATCH BASIN.	1/28
6	INSTALL 18" SDR-35 STORM DRAIN PIPE.	1/26
7	INSTALL 12" SDR-35 STORM DRAIN PIPE.	1/26
8	INSTALL NEW FIRE HYDRANT ASSEMBLY.	2/28
SURFACE IMPROVEMENTS		
9	REMOVE AND REPLACE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND 3" IN DEPTH. TRENCH AREA EDGES ARE TO BE SAWCUT OR PROFILED.	1/28
10	PROPOSED SURFACE IMPROVEMENTS.	2/22

ESTIMATED QUANTITIES	
INSTALL 18" STORM DRAIN PIPE	400 LF
INSTALL 12" STORM DRAIN PIPE	86 LF
CONSTRUCT MANHOLE	1 EA
CONSTRUCT CATCH BASIN	2 EA
INSTALL FIRE HYDRANT ASSEMBLY	1 EA



VERTICAL SCALE IN FEET
 0 4 8
 0 40 80
 HORIZONTAL SCALE IN FEET


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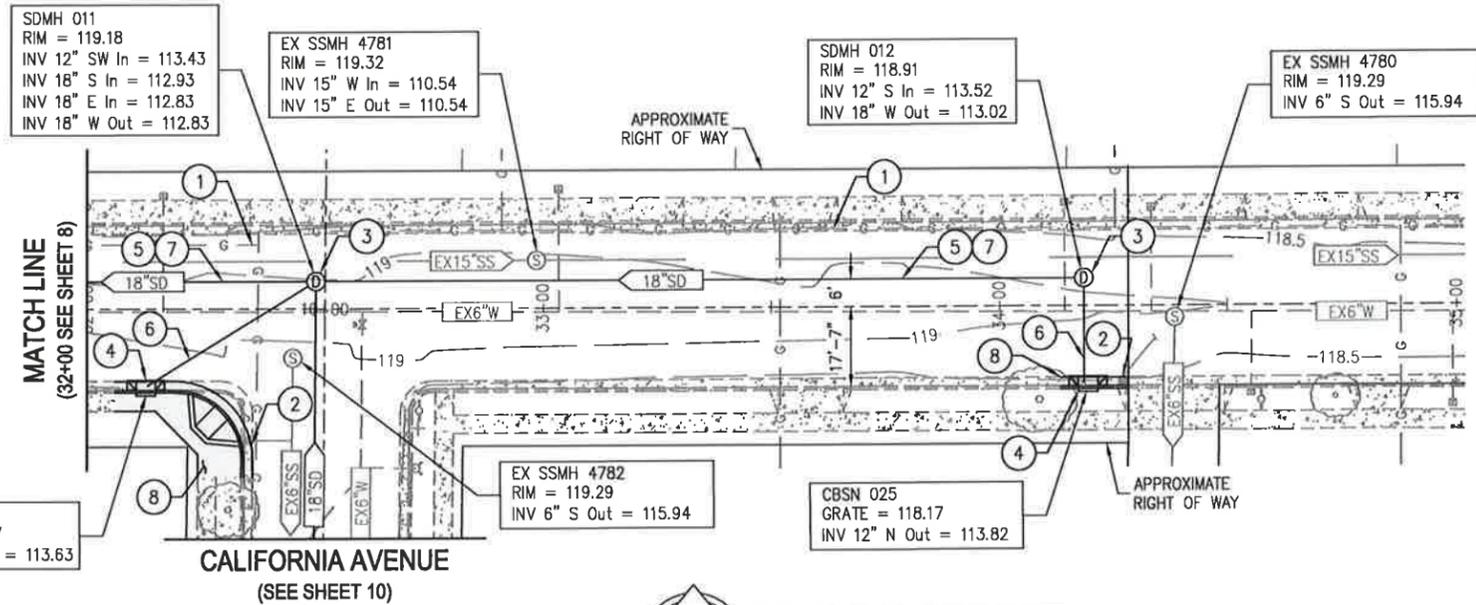
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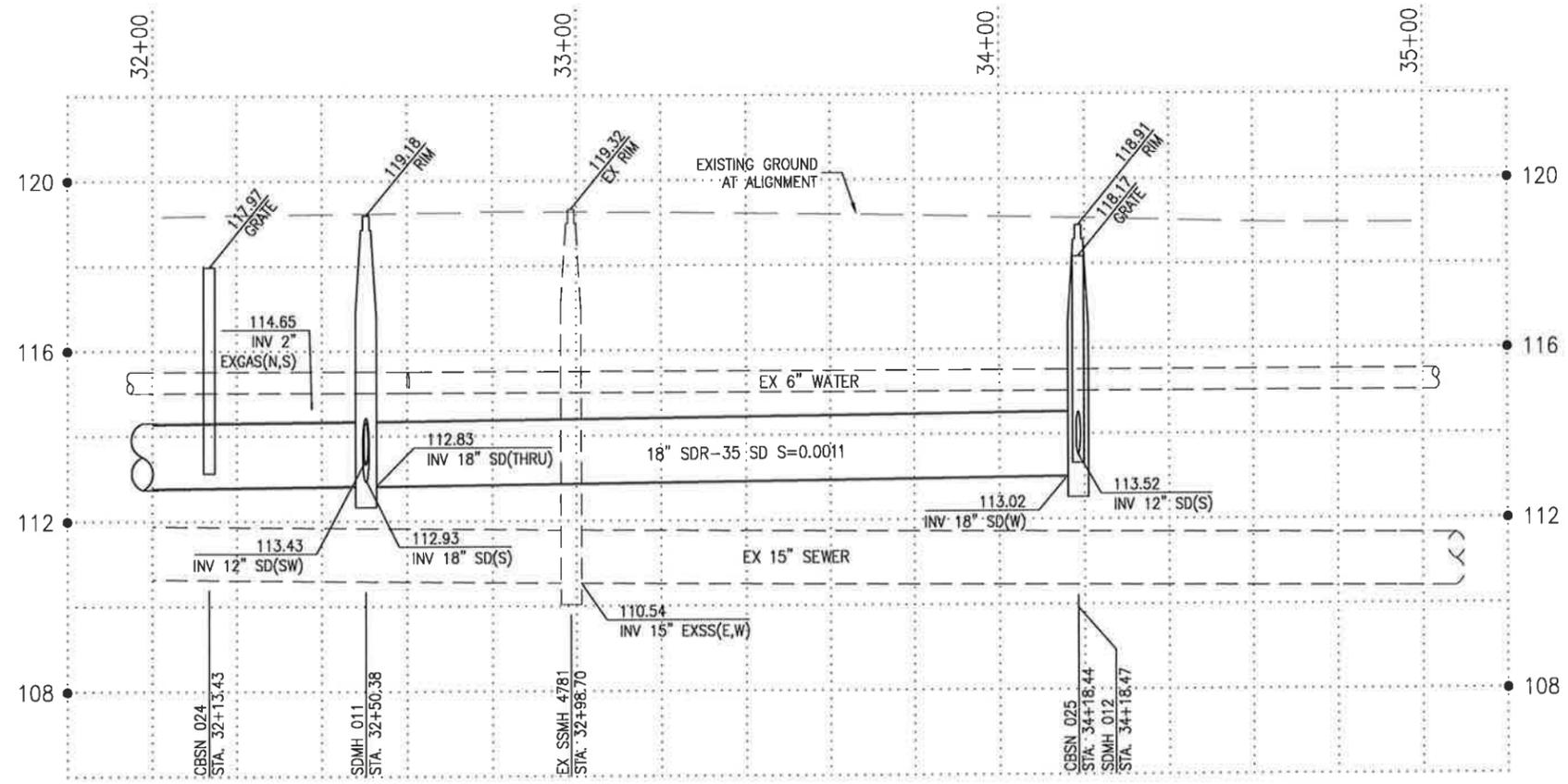

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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
K STREET IMPROVEMENTS
STA. 28+00 TO 32+00

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-108
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 8
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

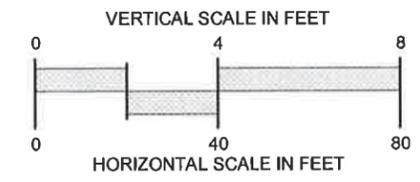


WEST K STREET
STATION 32+00 - 35+00



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.	
2	REMOVE EXISTING CATCH BASIN AND PIPE AS REQUIRED TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.	
3	CONSTRUCT STORM DRAIN MANHOLE.	3/27
4	CONSTRUCT STORM DRAIN CATCH BASIN.	1/28
5	INSTALL 18" SDR-35 STORM DRAIN PIPE.	1/26
6	INSTALL 12" SDR-35 STORM DRAIN PIPE.	1/26
SURFACE IMPROVEMENTS		
7	REMOVE AND REPLACE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND 3" IN DEPTH. TRENCH AREA EDGES ARE TO BE SAWCUT OR PROFILED.	1/26
8	PROPOSED SURFACE IMPROVEMENTS.	1/23

ESTIMATED QUANTITIES	
INSTALL 18" STORM DRAIN PIPE	219 LF
INSTALL 12" STORM DRAIN PIPE	66 LF
CONSTRUCT MANHOLE	2 EA
CONSTRUCT CATCH BASIN	2 EA



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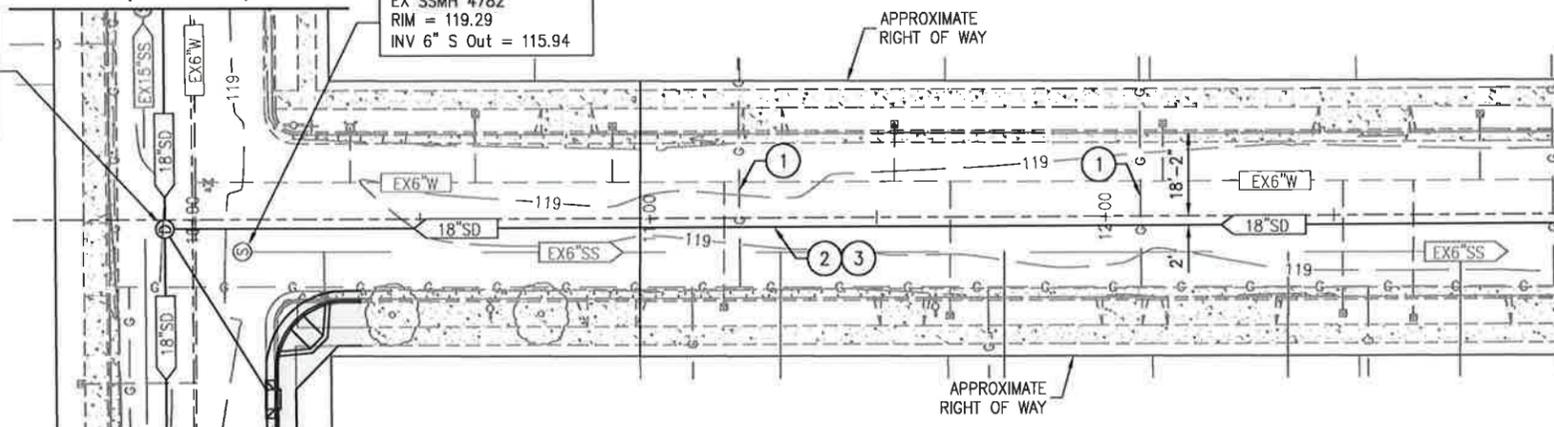
CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
K STREET IMPROVEMENTS
STA. 32+00 TO 35+00

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-109
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 9
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

WEST K STREET
(SEE SHEET 9)

SDMH 011
RIM = 119.18
INV 12" SW In = 113.33
INV 18" S In = 112.93
INV 18" E In = 112.83
INV 18" W Out = 112.83

EX SSMH 4782
RIM = 119.29
INV 6" S Out = 115.94



CONSTRUCTION NOTES

- UNDERGROUND IMPROVEMENTS**
- ① LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.
 - ② INSTALL 18" SDR-35 STORM DRAIN PIPE.
- SURFACE IMPROVEMENTS**
- ③ REMOVE AND REPLACE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND 3" IN DEPTH. TRENCH AREA EDGES ARE TO BE SAWCUT OR PROFILED.

REFERENCE
DETAIL

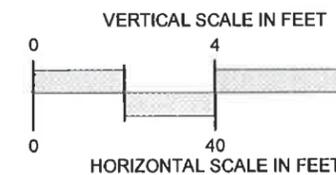
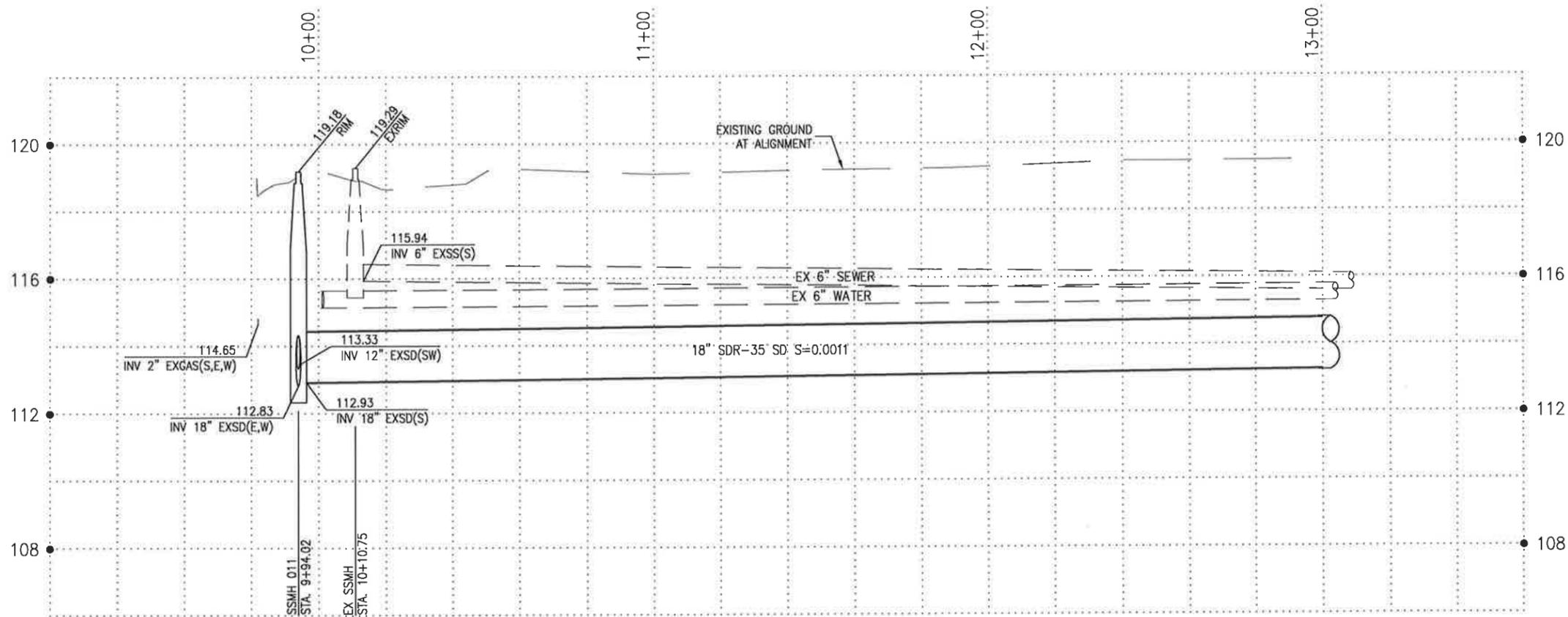
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ESTIMATED QUANTITIES

INSTALL 18" STORM DRAIN PIPE 306 LF

CALIFORNIA AVENUE
STATION 9+60 - 13+00



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REV	DATE	DESCRIPTION	APPR
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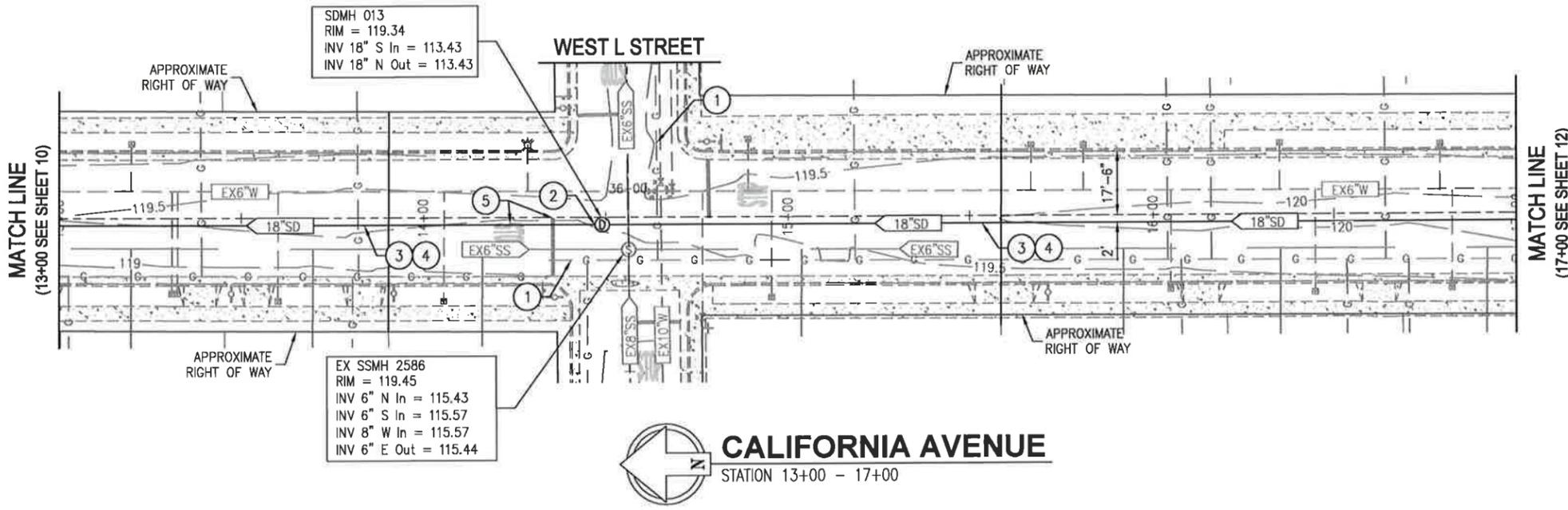
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
CALIFORNIA AVENUE IMPROVEMENTS
STA. 9+60 TO 13+00

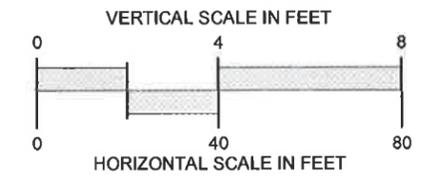
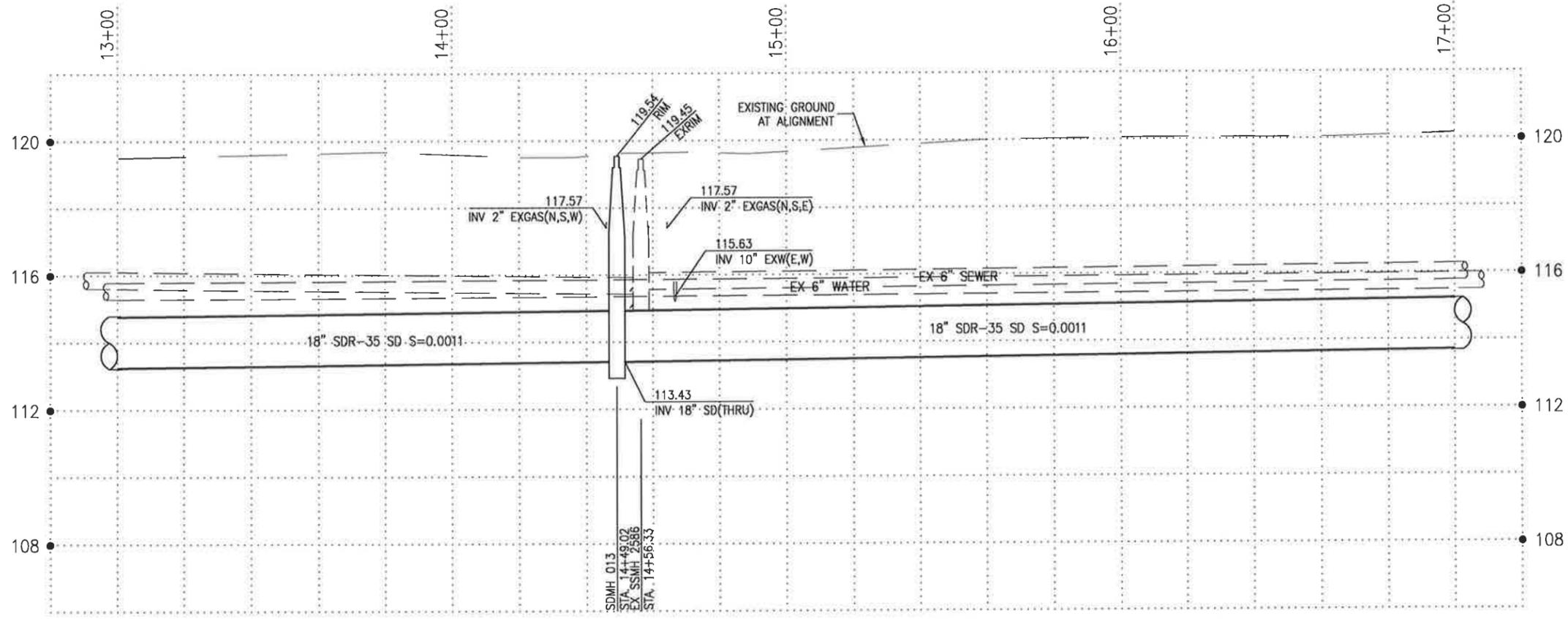
DESIGNED BY	DATE	DRAWING
N. FONTAINE	03/01/17	C-110
DRAWN BY	DATE	SHEET
N. FONTAINE	03/01/17	10
CHECKED BY	DATE	OF 31 SHEETS
M. GOUVEIA	04/26/17	PROJECT NUMBER
APPROVED	DATE	835.03
M. GOUVEIA	04/26/17	



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
①	LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.	3/27
②	CONSTRUCT STORM DRAIN MANHOLE.	1/25
③	INSTALL 18" SDR-35 STORM DRAIN PIPE.	1/25
SURFACE IMPROVEMENTS		
④	REMOVE AND REPLACE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND 3" IN DEPTH. TRENCH AREA EDGES ARE TO BE SAWCUT OR PROFILED.	1/25
⑤	REMOVE AND REAPPLY "STOP" MARKING AND STOP BAR.	

ESTIMATED QUANTITIES	
INSTALL 18" STORM DRAIN PIPE	400 LF
CONSTRUCT MANHOLE	1 EA
THERMOPLASTIC MARKINGS	40 SF

CALIFORNIA AVENUE
STATION 13+00 - 17+00



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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
CALIFORNIA AVENUE IMPROVEMENTS
STA. 13+00 TO 17+00

DESIGNED BY	DATE	DRAWING
N. FONTAINE	03/01/17	C-111
DRAWN BY	DATE	SHEET
N. FONTAINE	03/01/17	11
CHECKED BY	DATE	OF 31 SHEETS
M. GOUVEIA	04/26/17	PROJECT NUMBER
APPROVED	DATE	835.03
M. GOUVEIA	04/26/17	

CONSTRUCTION NOTES

REFERENCE
DETAIL

UNDERGROUND IMPROVEMENTS

- ① ABANDON EXISTING CATCH BASIN PLACE. REMOVE FRAME AND GRATE, FILL WITH CONCRETE TO MATCH EXISTING SURFACE ELEVATION.
- ② CONSTRUCT STORM DRAIN CATCH BASIN.
- ③ INSTALL 12" SDR-26 STORM DRAIN PIPE AND CONNECT TO EXISTING STORM DRAIN MANHOLE.

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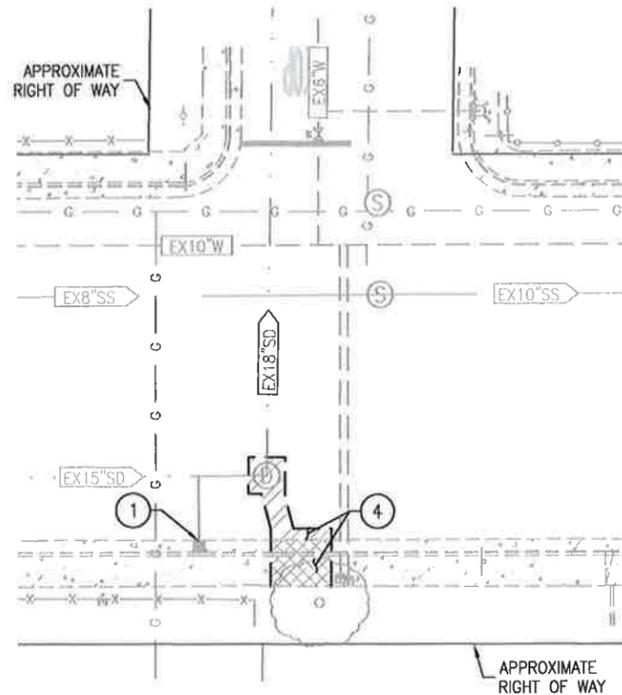
SURFACE IMPROVEMENTS

- ④ REMOVE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND A MINIMUM 2' ALONG CURB PROPOSED CURB AND GUTTER, SAWCUT OR PROFILE EDGES OF PAVEMENT TO REMAIN. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR SCORE LINE.
- ⑤ CONSTRUCT CONCRETE REPAIRS.
- ⑥ CONSTRUCT AC PAVEMENT REPAIR.

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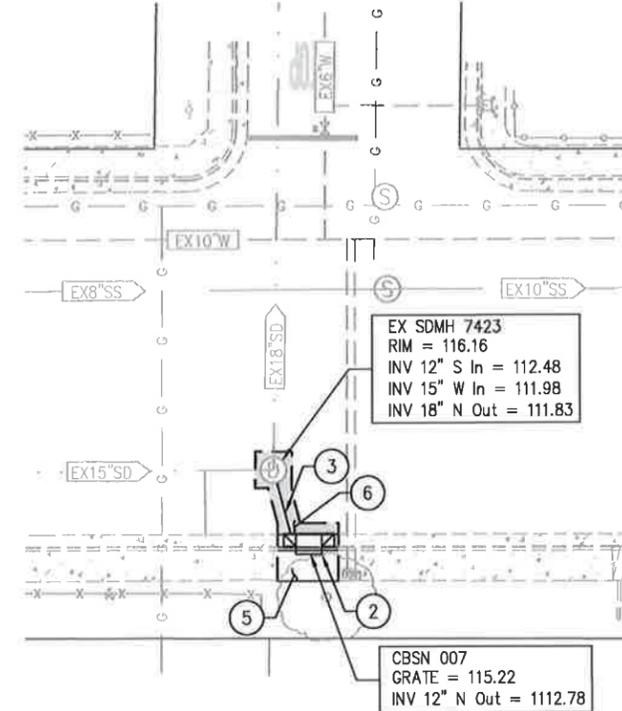
ESTIMATED QUANTITIES

INSTALL 12" STORM DRAIN PIPE	11	LF
CONSTRUCT CATCH BASIN	1	EA
AC REMOVAL	60	SF
CONCRETE REMOVAL (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	75	SF
AC REPAIRS	60	SF



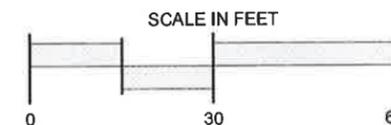
W. I St. & Arizona Ave. Demolition

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W. I St. & Arizona Ave. Improvements

SCALE AS SHOWN



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V:\CL\15030303\csl\p\mario\83503C-115.dwg

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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
W. I STREET AND ARIZONA AVENUE
INTERSECTION IMPROVEMENTS

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-115
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 15
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

CONSTRUCTION NOTES

REFERENCE
DETAIL

UNDERGROUND IMPROVEMENTS

- ① LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.
- ② LOCATE AND PROTECT EXISTING AT&T UTILITY LINE(S).
- ③ REMOVE EXISTING CATCH BASIN AND EXISTING PIPE AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.
- ④ CONSTRUCT STORM DRAIN CATCH BASIN.
- ⑤ INSTALL 12" SDR-35 STORM DRAIN PIPE.

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SURFACE IMPROVEMENTS

- ⑥ EXISTING UTILITY POLE, GUY WIRE, AND OVERHEAD LINES TO REMAIN AND BE PROTECTED IN PLACE.
- ⑦ EXISTING SIGN TO REMAIN AND BE PROTECTED IN PLACE.
- ⑧ REMOVE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND A MINIMUM 2' ALONG CURB PROPOSED CURB AND GUTTER, SAWCUT OR PROFILE EDGES OF PAVEMENT TO REMAIN. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR SCORE LINE.
- ⑨ CONSTRUCT CASE C CURB RAMP.
- ⑩ CONSTRUCT CONCRETE TRANSITION BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
- ⑪ ADJUST EXISTING WATER METER BOX AND VALVE BOX TO GRADE.
- ⑫ CONSTRUCT CONCRETE REPAIRS.
- ⑬ CONSTRUCT AC PAVEMENT REPAIR.

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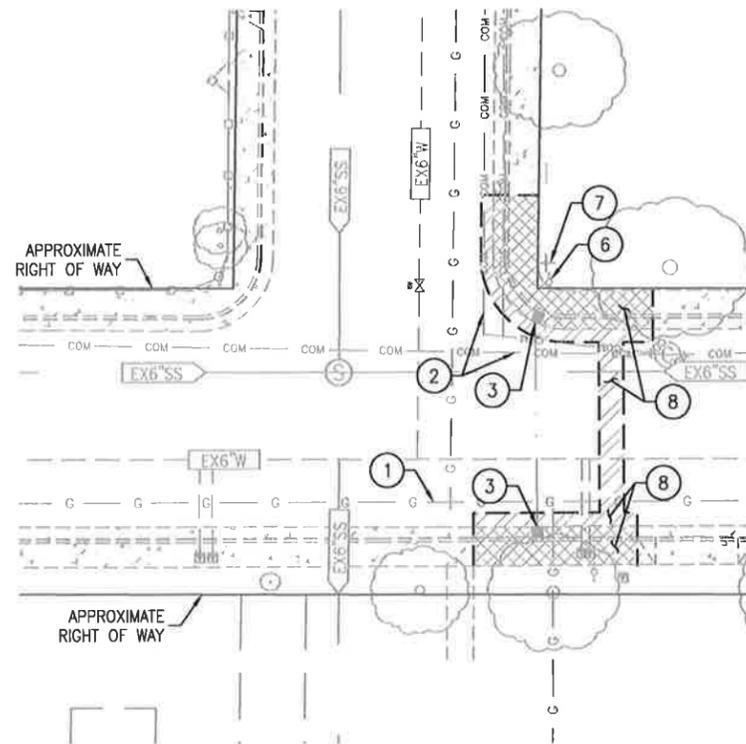
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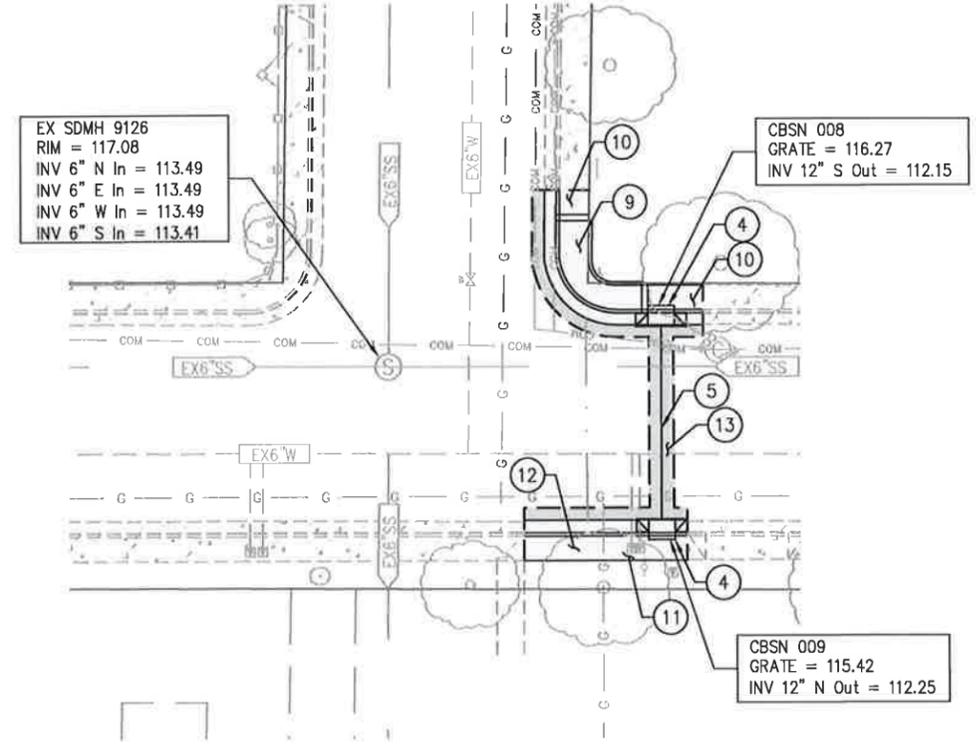
ESTIMATED QUANTITIES

INSTALL 12" STORM DRAIN PIPE	32	LF
CONSTRUCT CATCH BASIN	2	EA
AC REMOVAL	265	SF
CONCRETE REMOVAL (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	425	SF
AC REPAIRS	255	SF
CASE C CURB RAMP	1	EA



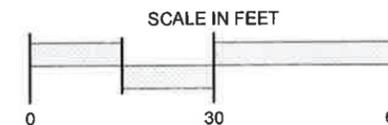
W. J St. & Illinois Ave. Demolition

SCALE AS SHOWN



W. J St. & Illinois Ave. Improvements

SCALE AS SHOWN



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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
W. J STREET AND ILLINOIS AVENUE
INTERSECTION IMPROVEMENTS

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-116
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 16
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

CONSTRUCTION NOTES

REFERENCE
DETAIL

UNDERGROUND IMPROVEMENTS

- ① LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.
- ② REMOVE EXISTING CATCH BASIN AND EXISTING PIPE AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.
- ③ CONSTRUCT STORM DRAIN CATCH BASIN.
- ④ INSTALL 12" SDR-35 STORM DRAIN PIPE.

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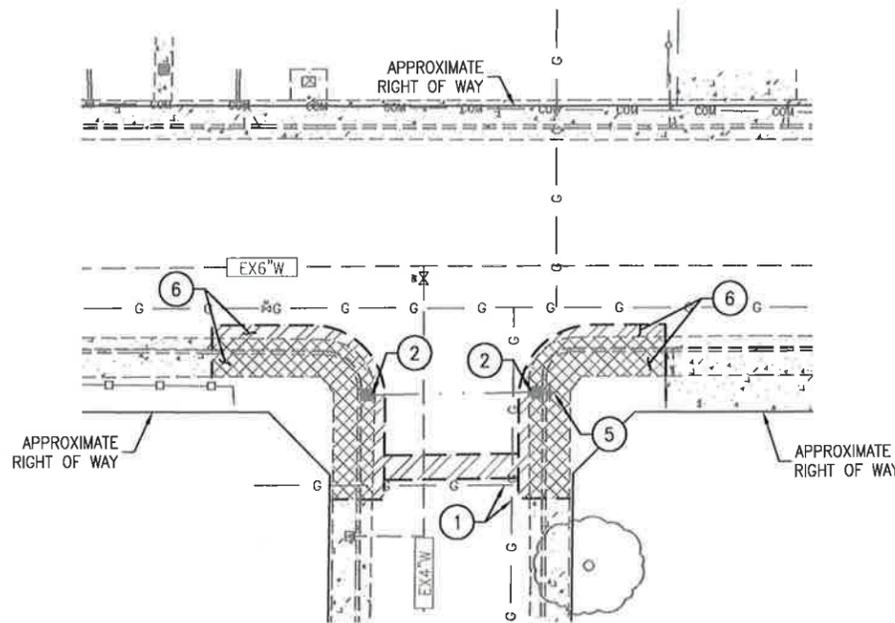
SURFACE IMPROVEMENTS

- ⑤ EXISTING SIGN TO BE REMOVED AND SALVAGED.
- ⑥ REMOVE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND A MINIMUM 2' ALONG CURB PROPOSED CURB AND GUTTER, SAWCUT OR PROFILE EDGES OF PAVEMENT TO REMAIN. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR SCORE LINE.
- ⑦ CONSTRUCT CASE A CURB RAMP.
- ⑧ CONSTRUCT CONCRETE TRANSITION BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
- ⑨ CONSTRUCT AC PAVEMENT REPAIR.
- ⑩ REINSTALL SALVAGED STREET NAMES SIGNS ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.

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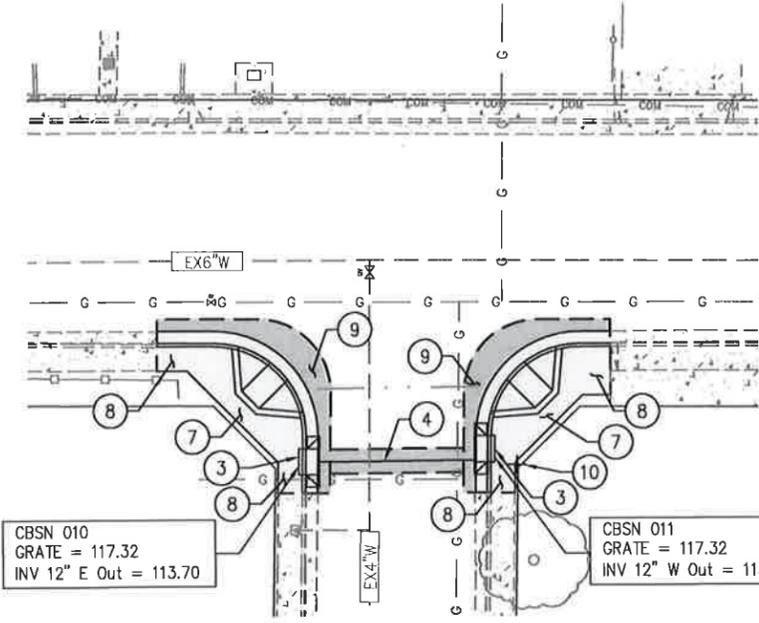
ESTIMATED QUANTITIES

INSTALL 12" STORM DRAIN PIPE	26	LF
CONSTRUCT CATCH BASIN	2	EA
AC REMOVAL	258	SF
CONCRETE REMOVAL (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	550	SF
AC REPAIRS	360	SF
CASE A CURB RAMP	2	EA
INSTALL SIGN	1	EA



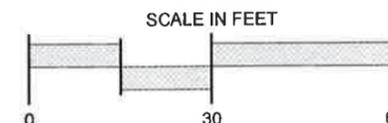
W. J St. & Nevada Ave. Demolition

SCALE AS SHOWN



W. J St. & Nevada Ave. Improvements

SCALE AS SHOWN



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CITY OF LOS BANOS

**K STREET STORM DRAIN IMPROVEMENTS
W. J STREET AND NEVADA AVENUE
INTERSECTION IMPROVEMENTS**

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-117
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 17
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

CONSTRUCTION NOTES

REFERENCE
DETAIL

UNDERGROUND IMPROVEMENTS

- ① LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.
- ② REMOVE EXISTING CATCH BASIN AND EXISTING PIPE AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.
- ③ EXISTING FIRE HYDRANT AND PIPE TO BE REMOVED, INCLUDING 90 DEGREE ELBOW. INSTALL CAP AT END OF PIPE TO REMAIN AND CONSTRUCT THRUST BLOCK.
- ④ CONSTRUCT STORM DRAIN CATCH BASIN.
- ⑤ INSTALL 12" SDR-35 STORM DRAIN PIPE.
- ⑥ INSTALL NEW FIRE HYDRANT ASSEMBLY.

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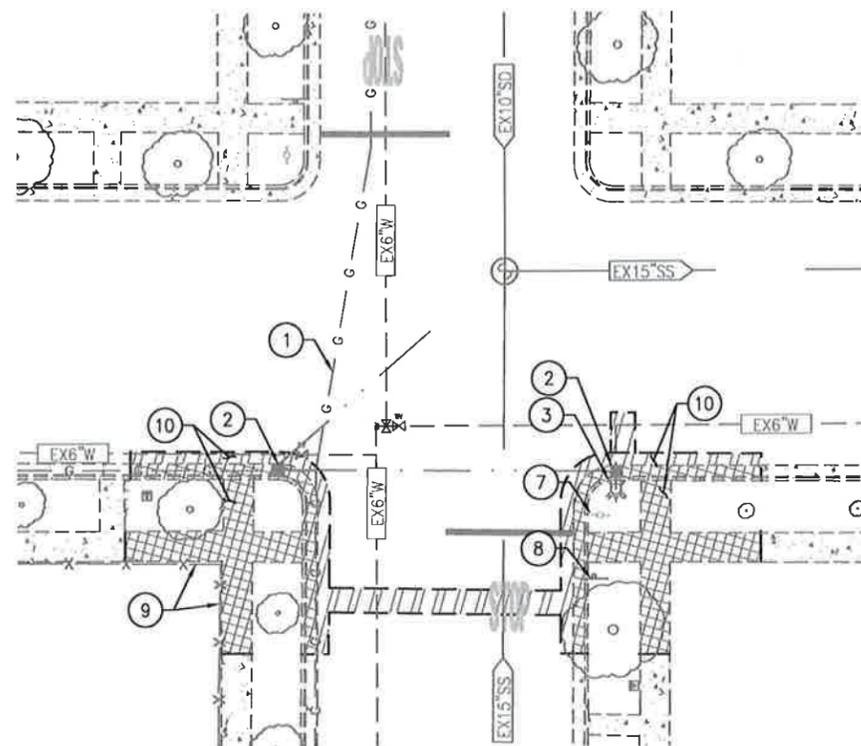
SURFACE IMPROVEMENTS

- ⑦ EXISTING UTILITY POLE, GUY WIRE, AND OVERHEAD LINES TO REMAIN AND BE PROTECTED IN PLACE.
- ⑧ EXISTING SIGN TO REMAIN AND BE PROTECTED IN PLACE.
- ⑨ EXISTING FENCE TO REMAIN AND BE PROTECTED IN PLACE.
- ⑩ REMOVE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND A MINIMUM 2" ALONG CURB PROPOSED CURB AND GUTTER, SAWCUT OR PROFILE EDGES OF PAVEMENT TO REMAIN. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR SCORE LINE.
- ⑪ CONSTRUCT CASE F CURB RAMP (DUAL RAMPS).
- ⑫ CONSTRUCT CONCRETE TRANSITION BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
- ⑬ CONSTRUCT AC PAVEMENT REPAIR.
- ⑭ REMOVE AND REAPPLY "STOP" MARKING AND STOP BAR.

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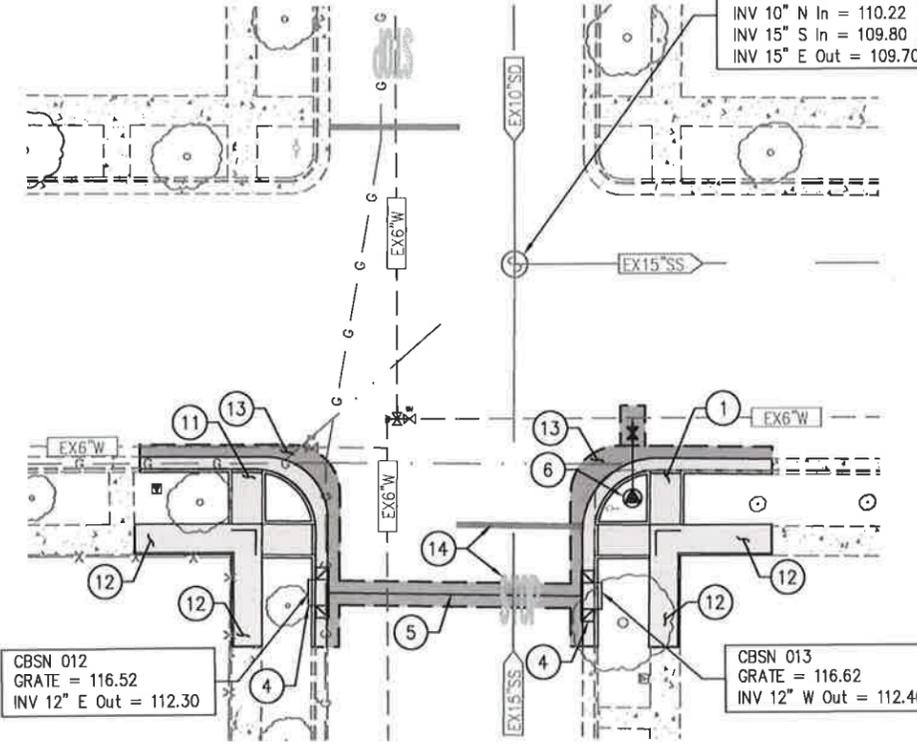
ESTIMATED QUANTITIES

INSTALL 12" STORM DRAIN PIPE	42	LF
CONSTRUCT CATCH BASIN	2	EA
INSTALL FIRE HYDRANT ASSEMBLY	1	EA
AC REMOVAL	430	SF
CONCRETE REMOVAL (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	860	SF
AC REPAIRS	460	SF
CASE F CURB RAMP	2	EA
THERMOPLASTIC MARKINGS	40	SF



W. J St. & 3rd St. Demolition

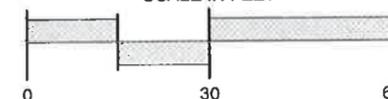
SCALE AS SHOWN



W. J St. & 3rd St. Improvements

SCALE AS SHOWN

SCALE IN FEET



Call before you dig.



May 05, 2017 - 11:03am
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REV	DATE	DESCRIPTION	APPR
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CITY OF LOS BANOS

**K STREET STORM DRAIN IMPROVEMENTS
W. J STREET AND 3RD STREET
INTERSECTION IMPROVEMENTS**

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-118
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 18
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

CONSTRUCTION NOTES

REFERENCE
DETAIL

UNDERGROUND IMPROVEMENTS

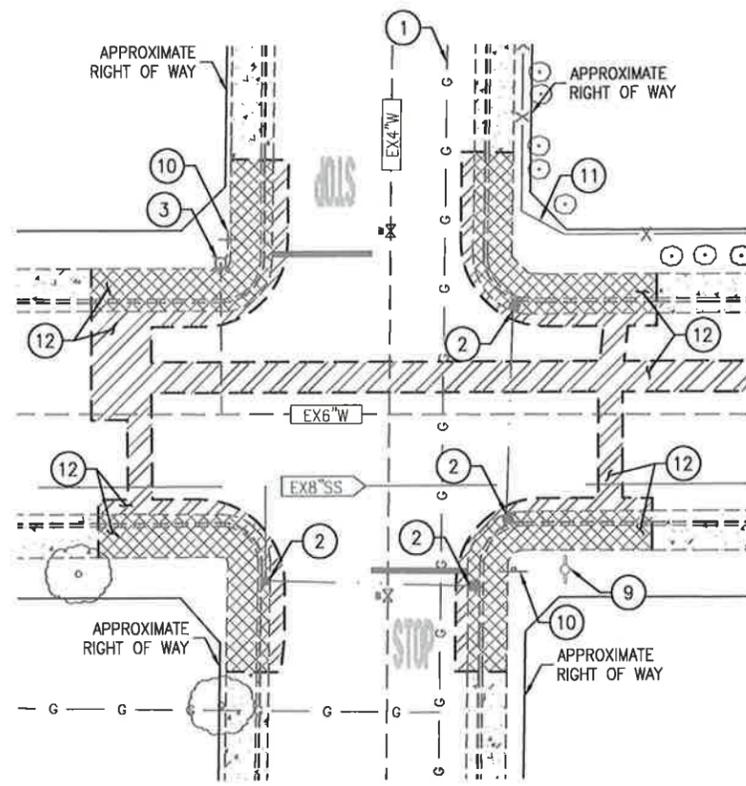
- ① LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.
- ② REMOVE EXISTING CATCH BASIN AND EXISTING PIPE AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.
- ③ EXISTING FIRE HYDRANT AND PIPE TO BE REMOVED, INCLUDING 90 DEGREE ELBOW. INSTALL CAP AT END OF PIPE TO REMAIN AND CONSTRUCT THRUST BLOCK.
- ④ CONSTRUCT STORM DRAIN MANHOLE.
- ⑤ CONSTRUCT STORM DRAIN CATCH BASIN.
- ⑥ INSTALL 18" SDR-35 STORM DRAIN PIPE.
- ⑦ INSTALL 12" SDR-35 STORM DRAIN PIPE.
- ⑧ INSTALL NEW FIRE HYDRANT ASSEMBLY.

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SURFACE IMPROVEMENTS

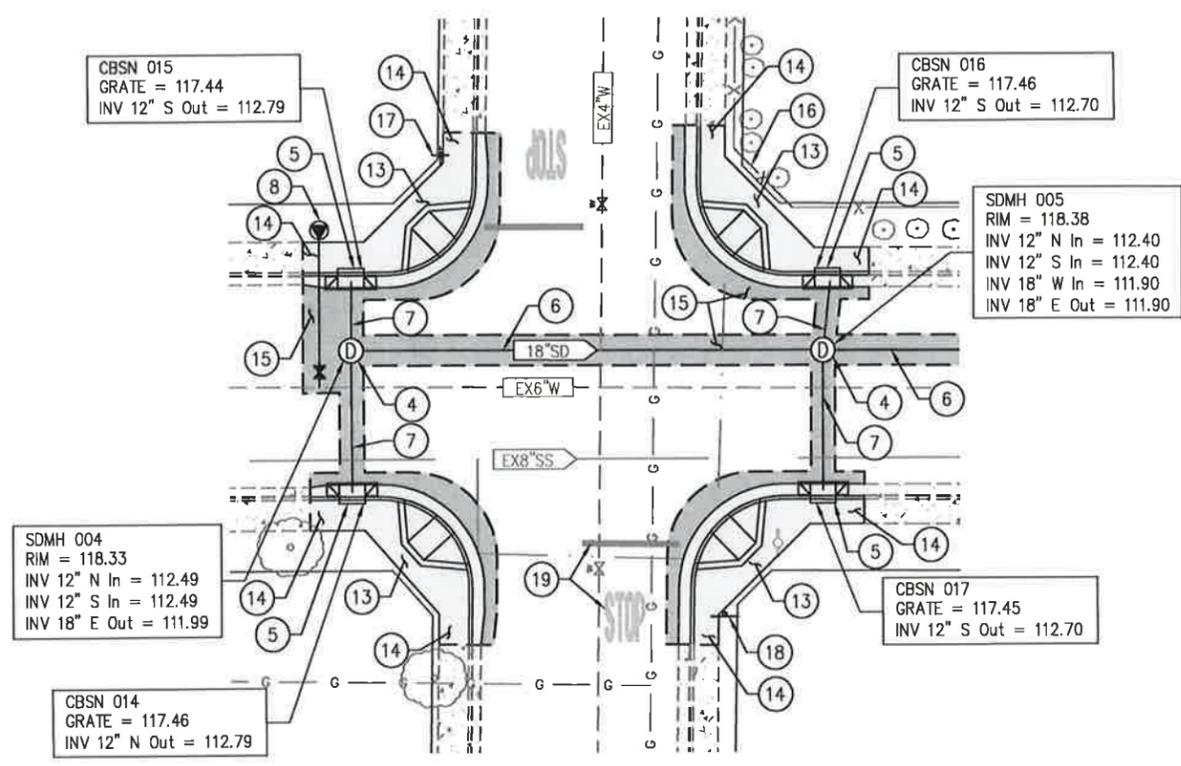
- ⑨ EXISTING UTILITY POLE, GUY WIRE, AND OVERHEAD LINES TO REMAIN AND BE PROTECTED IN PLACE.
- ⑩ EXISTING SIGN TO BE REMOVED AND SALVAGED.
- ⑪ EXISTING FENCE TO BE REMOVED AND SALVAGED AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS.
- ⑫ REMOVE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND A MINIMUM 2' ALONG CURB PROPOSED CURB AND GUTTER, SAWCUT OR PROFILE EDGES OF PAVEMENT TO REMAIN. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR SCORE LINE.
- ⑬ CONSTRUCT CASE A CURB RAMP.
- ⑭ CONSTRUCT CONCRETE TRANSITION BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
- ⑮ CONSTRUCT AC PAVEMENT REPAIR.
- ⑯ RECONFIGURE AND REINSTALL SALVAGED FENCE OUTSIDE OF PROPOSED IMPROVEMENTS.
- ⑰ REINSTALL SALVAGED STOP SIGN AND STREET NAMES SIGNS ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.
- ⑱ REINSTALL SALVAGED STOP SIGN ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.
- ⑲ REMOVE AND REAPPLY "STOP" MARKING AND STOP BAR.

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W. K St. & Iowa Ave. Demolition

SCALE AS SHOWN

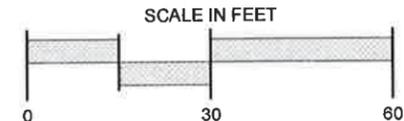


W. K St. & Iowa Ave. Improvements

SCALE AS SHOWN

ESTIMATED QUANTITIES

INSTALL 18" STORM DRAIN PIPE	100	LF
INSTALL 12" STORM DRAIN PIPE	68	LF
CONSTRUCT MANHOLE	2	EA
CONSTRUCT CATCH BASIN	4	EA
INSTALL FIRE HYDRANT ASSEMBLY	1	EA
AC REMOVAL	1,200	SF
CONCRETE REMOVAL (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	1,205	SF
AC REPAIRS	1,310	SF
CASE A CURB RAMP	4	EA
INSTALL SIGN	2	EA
THERMOPLASTIC MARKINGS	76	SF



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REV	DATE	DESCRIPTION	APPR
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
W. K STREET AND IOWA AVENUE
INTERSECTION IMPROVEMENTS

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-119
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 19
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

CONSTRUCTION NOTES

REFERENCE
DETAIL

UNDERGROUND IMPROVEMENTS

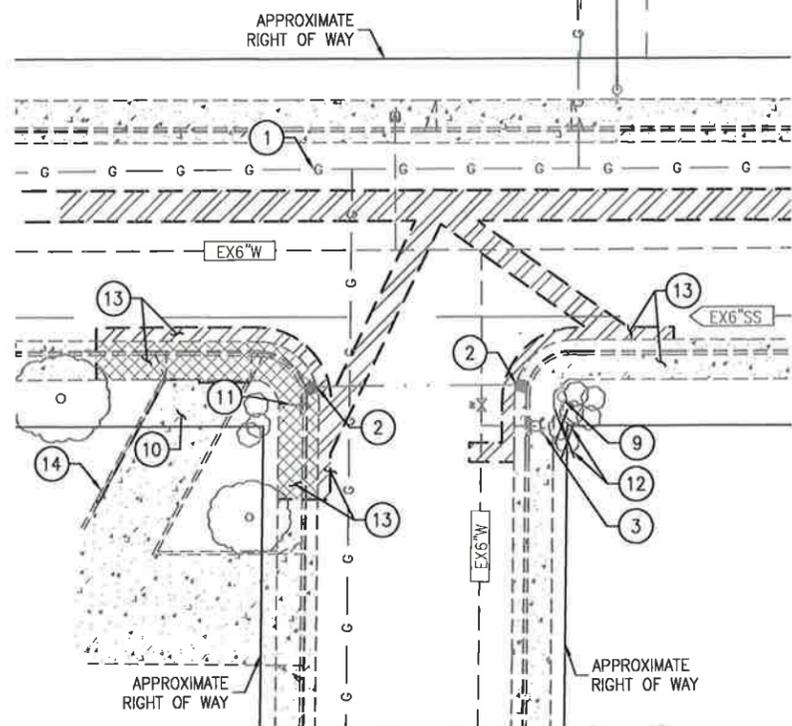
- ① LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.
- ② REMOVE EXISTING CATCH BASIN AND EXISTING PIPE AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.
- ③ EXISTING FIRE HYDRANT AND PIPE TO BE REMOVED, INCLUDING 90 DEGREE ELBOW. INSTALL CAP AT END OF PIPE TO REMAIN AND CONSTRUCT THRUST BLOCK.
- ④ CONSTRUCT STORM DRAIN MANHOLE.
- ⑤ CONSTRUCT STORM DRAIN CATCH BASIN.
- ⑥ INSTALL 18" SDR-35 STORM DRAIN PIPE.
- ⑦ INSTALL 12" SDR-35 STORM DRAIN PIPE.
- ⑧ INSTALL NEW FIRE HYDRANT ASSEMBLY.

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SURFACE IMPROVEMENTS

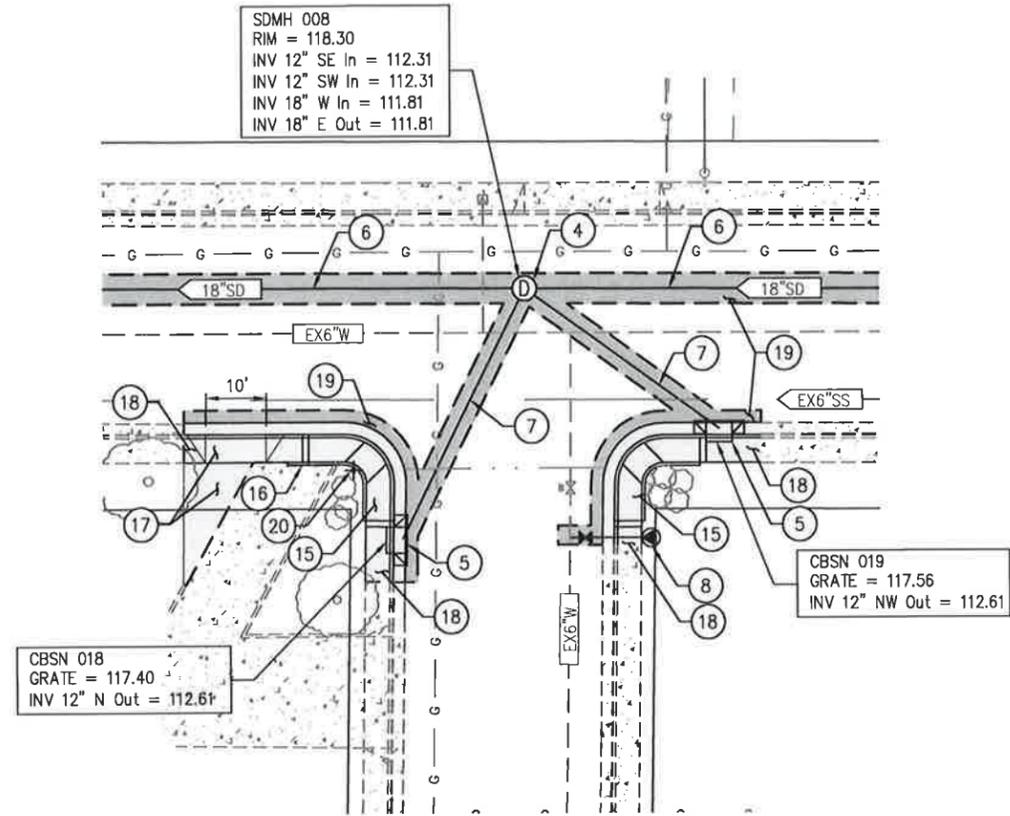
- ⑨ EXISTING UTILITY POLE, GUY WIRE, AND OVERHEAD LINES TO REMAIN AND BE PROTECTED IN PLACE.
- ⑩ EXISTING DRIVEWAY TO BE PROTECTED.
- ⑪ EXISTING SIGN TO BE REMOVED AND SALVAGED.
- ⑫ EXISTING BUSHES TO BE REMOVED AS REQUIRED FOR CONSTRUCTION.
- ⑬ REMOVE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND A MINIMUM 2' ALONG CURB PROPOSED CURB AND GUTTER, SAWCUT OR PROFILE EDGES OF PAVEMENT TO REMAIN. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR SCORE LINE.
- ⑭ SAWCUT AND REMOVE CURB ALONG EXISTING DRIVEWAY.
- ⑮ CONSTRUCT CASE C CURB RAMP.
- ⑯ MAINTAIN FULL HEIGHT CURB TO END OF RAMP LANDING. QUARTER ROUND THE LAST 6" OF THE CURB.
- ⑰ CONSTRUCT DRIVEWAY MODIFICATIONS. CONCRETE THICKNESS WITHIN DRIVEWAY AREA TO BE 6".
- ⑱ CONSTRUCT CONCRETE TRANSITION BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
- ⑲ CONSTRUCT AC PAVEMENT REPAIR.
- ⑳ REINSTALL SALVAGED STREET NAMES SIGNS ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.

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W. K St. & Illinois Ave. Demolition

SCALE AS SHOWN

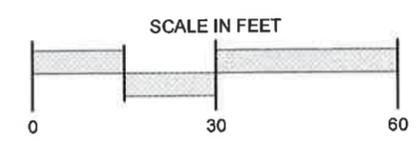


W. K St. & Illinois Ave. Improvements

SCALE AS SHOWN

ESTIMATED QUANTITIES

INSTALL 18" STORM DRAIN PIPE	120	LF
INSTALL 12" STORM DRAIN PIPE	95	LF
CONSTRUCT MANHOLE	2	EA
CONSTRUCT CATCH BASIN	2	EA
INSTALL FIRE HYDRANT ASSEMBLY	1	EA
AC REMOVAL	1,130	SF
CONCRETE REMOVAL (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	600	SF
AC REPAIRS	1,130	SF
CASE C CURB RAMP	2	EA
MODIFIED DRIVEWAY (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	220	SF
INSTALL SIGN	1	EA



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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
W. K STREET AND ILLINOIS AVENUE
INTERSECTION IMPROVEMENTS

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-120
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 20
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS PROJECT NUMBER 835.03
APPROVED M. GOUVEIA	DATE 04/26/17	

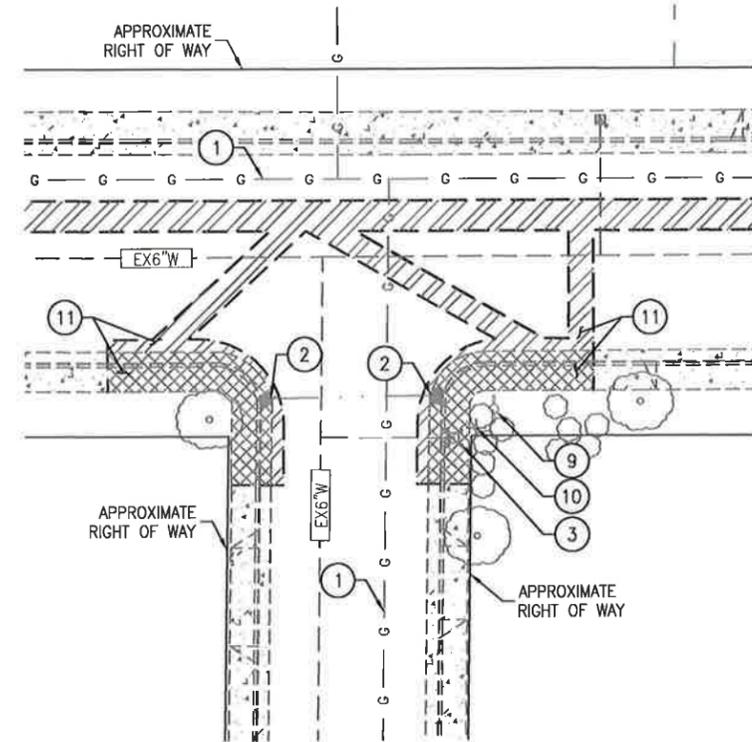
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CONSTRUCTION NOTES

REFERENCE
DETAIL

- UNDERGROUND IMPROVEMENTS**
- ① LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.
 - ② REMOVE EXISTING CATCH BASIN AND EXISTING PIPE AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.
 - ③ EXISTING FIRE HYDRANT AND PIPE TO BE REMOVED, INCLUDING 90 DEGREE ELBOW. INSTALL CAP AT END OF PIPE TO REMAIN AND CONSTRUCT THRUST BLOCK.
 - ④ CONSTRUCT STORM DRAIN MANHOLE.
 - ⑤ CONSTRUCT STORM DRAIN CATCH BASIN.
 - ⑥ INSTALL 18" SDR-35 STORM DRAIN PIPE.
 - ⑦ INSTALL 12" SDR-35 STORM DRAIN PIPE.
 - ⑧ INSTALL NEW FIRE HYDRANT ASSEMBLY.
- SURFACE IMPROVEMENTS**
- ⑨ EXISTING UTILITY POLE, GUY WIRE, AND OVERHEAD LINES TO REMAIN AND BE PROTECTED IN PLACE.
 - ⑩ EXISTING SIGN TO BE REMOVED AND SALVAGED.
 - ⑪ REMOVE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND A MINIMUM 2' ALONG CURB PROPOSED CURB AND GUTTER, SAWCUT OR PROFILE EDGES OF PAVEMENT TO REMAIN. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR SCORE LINE.
 - ⑫ CONSTRUCT CASE C CURB RAMP.
 - ⑬ CONSTRUCT CONCRETE TRANSITION BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
 - ⑭ CONSTRUCT AC PAVEMENT REPAIR.
 - ⑮ REINSTALL SALVAGED STREET NAMES SIGNS ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.

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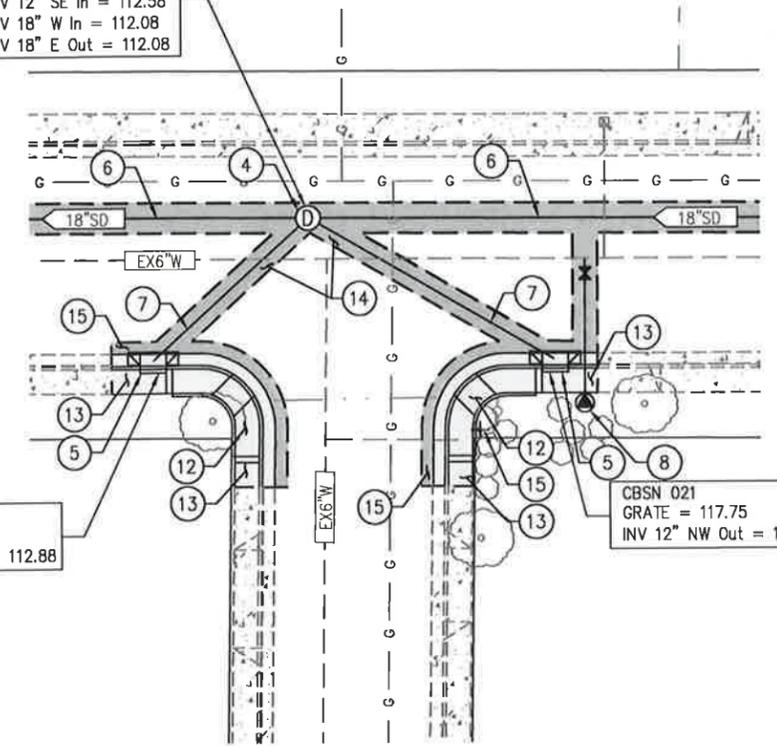


W. K St. & Arizona Ave. Demolition
SCALE AS SHOWN

SDMH 009
RIM = 118.55
INV 12" SW In = 112.58
INV 12" SE In = 112.58
INV 18" W In = 112.08
INV 18" E Out = 112.08

CBSN 020
GRATE = 117.72
INV 12" NE Out = 112.88

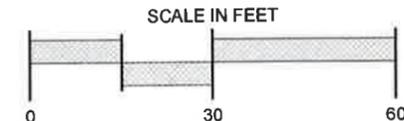
CBSN 021
GRATE = 117.75
INV 12" NW Out = 112.88



W. K St. & Arizona Ave. Improvements
SCALE AS SHOWN

ESTIMATED QUANTITIES

INSTALL 18" STORM DRAIN PIPE	120	LF
INSTALL 12" STORM DRAIN PIPE	80	LF
CONSTRUCT MANHOLE	1	EA
CONSTRUCT CATCH BASIN	2	EA
INSTALL FIRE HYDRANT ASSEMBLY	1	EA
AC REMOVAL	1,080	SF
CONCRETE REMOVAL (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	515	SF
AC REPAIRS	1,080	SF
CASE C CURB RAMP	2	EA
INSTALL SIGN	1	EA



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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
W. K STREET AND ARIZONA AVENUE
INTERSECTION IMPROVEMENTS

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-121
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 21
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

CONSTRUCTION NOTES

REFERENCE
DETAIL

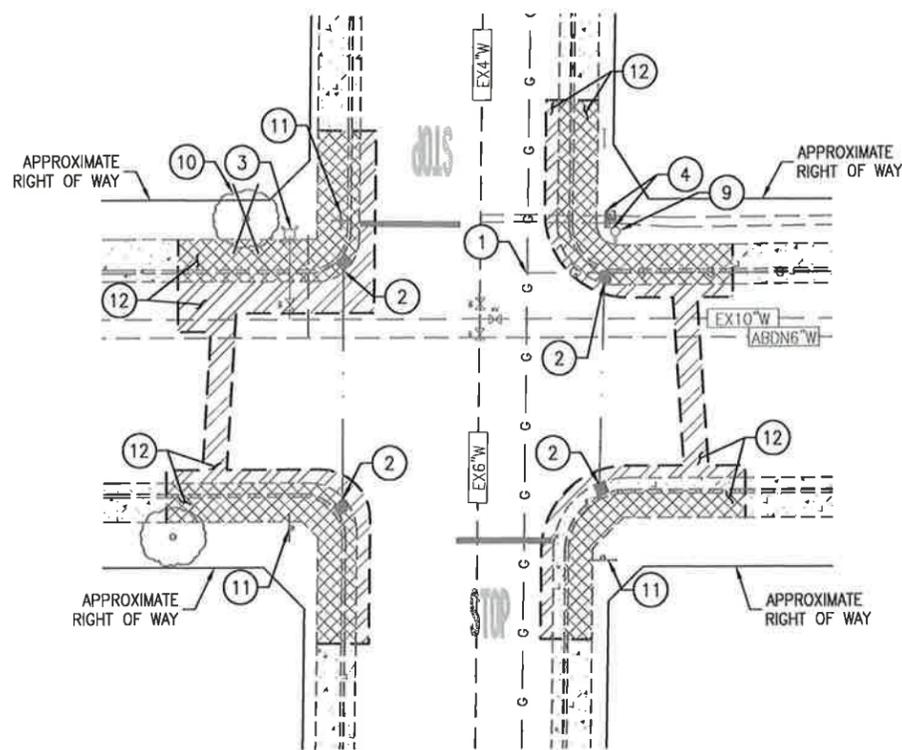
UNDERGROUND IMPROVEMENTS

- ① LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.
- ② REMOVE EXISTING CATCH BASIN AND EXISTING PIPE AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.
- ③ EXISTING FIRE HYDRANT ASSEMBLY TO BE REMOVED AND SALVAGED. INSTALL BLIND FLANGE AT EXISTING TEE AT WATER MAIN.
- ④ EXISTING WATER METER TO BE REMOVED AND SALVAGED.
- ⑤ CONSTRUCT STORM DRAIN CATCH BASIN.
- ⑥ INSTALL 12" SDR-35 STORM DRAIN PIPE.
- ⑦ REINSTALL SALVAGED FIRE HYDRANT ASSEMBLY.
- ⑧ REINSTALL SALVAGED WATER METER OUTSIDE OF PROPOSED IMPROVEMENTS. REPLACE SERVICE LINE. SERVICE LINE IS TO BE DIRECTLY CONNECTED FROM WATER METER TO EXISTING WATERLINE.

SURFACE IMPROVEMENTS

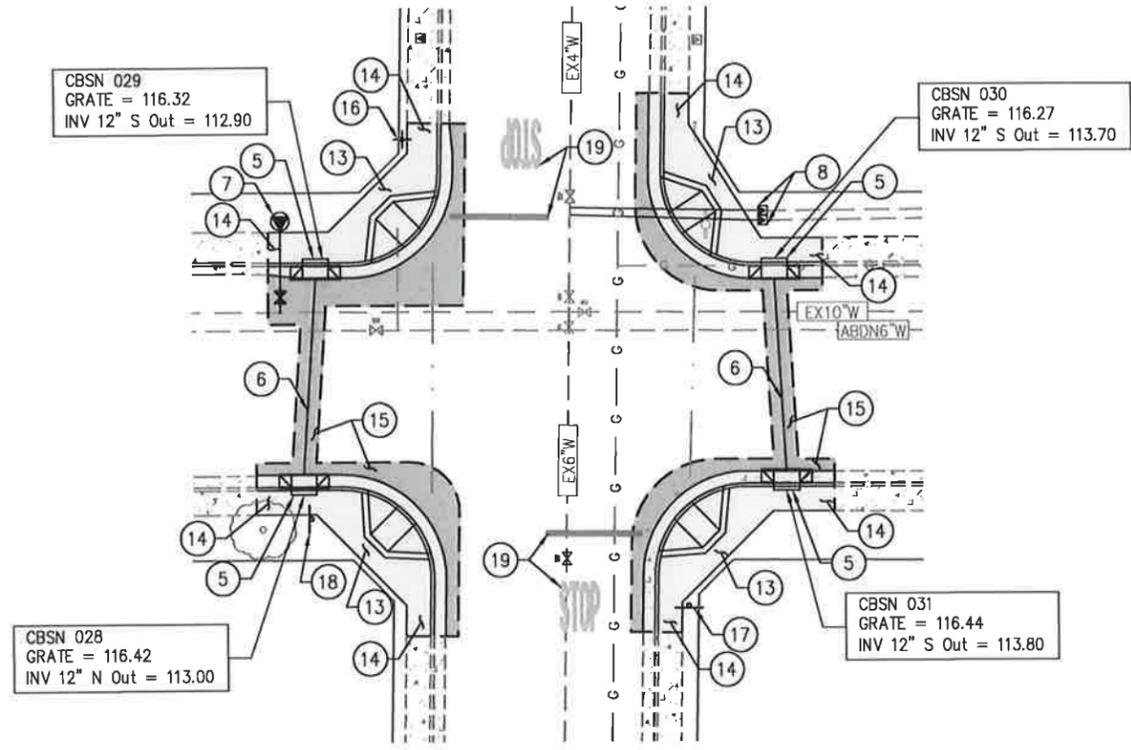
- ⑨ EXISTING UTILITY POLE, GUY WIRE, AND OVERHEAD LINES TO REMAIN AND BE PROTECTED IN PLACE.
- ⑩ EXISTING TREE TO BE REMOVED.
- ⑪ EXISTING SIGN TO BE REMOVED AND SALVAGED.
- ⑫ REMOVE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND A MINIMUM 2' ALONG CURB PROPOSED CURB AND GUTTER, SAWCUT OR PROFILE EDGES OF PAVEMENT TO REMAIN. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR SCORE LINE.
- ⑬ CONSTRUCT CASE A CURB RAMP.
- ⑭ CONSTRUCT CONCRETE TRANSITION BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
- ⑮ CONSTRUCT AC PAVEMENT REPAIR.
- ⑯ REINSTALL SALVAGED STOP SIGN AND STREET NAMES SIGNS ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.
- ⑰ REINSTALL SALVAGED STOP SIGN ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.
- ⑱ REINSTALL SALVAGED PEDESTRIAN CROSSING SIGN ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.
- ⑲ REMOVE AND REAPPLY "STOP" MARKING AND STOP BAR.

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W. L St. & Iowa Ave. Demolition

SCALE AS SHOWN

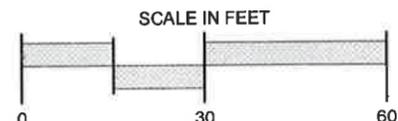


W. L St. & Iowa Ave. Improvements

SCALE AS SHOWN

ESTIMATED QUANTITIES

INSTALL 12" STORM DRAIN PIPE	64	LF
CONSTRUCT CATCH BASIN	4	EA
RELOCATE FIRE HYDRANT ASSEMBLY	1	EA
RELOCATE WATER SERVICE	2	EA
AC REMOVAL	810	SF
CONCRETE REMOVAL (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	1,170	SF
AC REPAIRS	940	SF
CASE A CURB RAMP	4	EA
INSTALL SIGN	3	EA
THERMOPLASTIC MARKINGS	86	SF



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REV	DATE	DESCRIPTION	APPR
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
W. L STREET AND IOWA AVENUE
INTERSECTION IMPROVEMENTS

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-124
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 24
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

CONSTRUCTION NOTES

REFERENCE
DETAIL

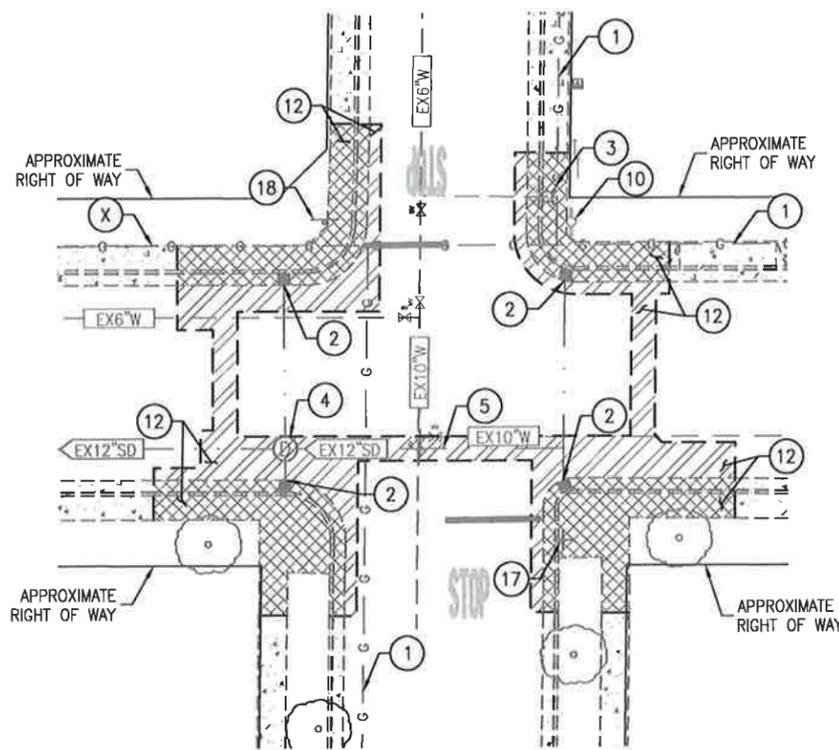
UNDERGROUND IMPROVEMENTS

- ① LOCATE AND PROTECT EXISTING GAS LINE IN PLACE.
- ② REMOVE EXISTING CATCH BASIN AND EXISTING PIPE AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS. INSTALL CONCRETE PLUG IN THE OPEN END OF THE EXISTING PIPE SECTION TO REMAIN IN PLACE.
- ③ EXISTING FIRE HYDRANT AND PIPE TO BE REMOVED, INCLUDING 90 DEGREE ELBOW. INSTALL CAP AT END OF PIPE TO REMAIN AND CONSTRUCT THRUST BLOCK.
- ④ EXISTING MANHOLE TO BE REMOVED.
- ⑤ EXISTING 12" STORM DRAIN PIPE TO BE REMOVED.
- ⑥ CONSTRUCT STORM DRAIN MANHOLE.
- ⑦ CONSTRUCT STORM DRAIN CATCH BASIN.
- ⑧ INSTALL 12" SDR-26 STORM DRAIN PIPE.
- ⑨ INSTALL NEW FIRE HYDRANT ASSEMBLY.

SURFACE IMPROVEMENTS

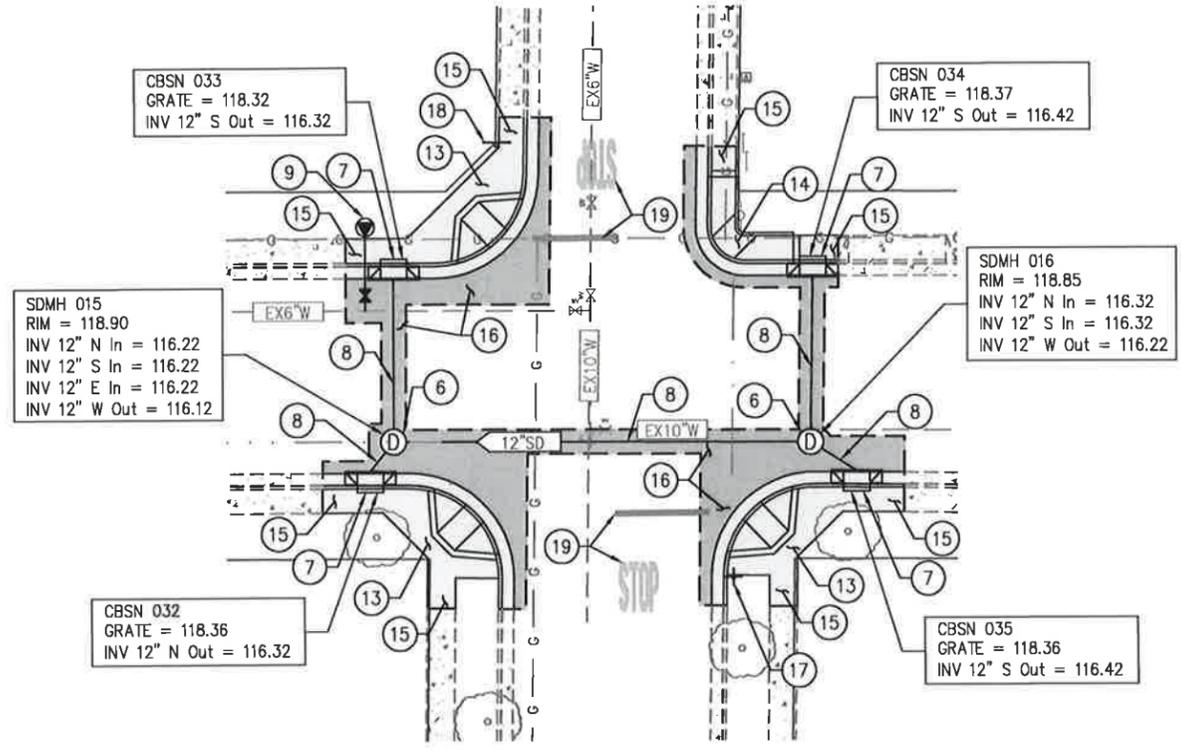
- ⑩ EXISTING UTILITY POLE, GUY WIRE, AND OVERHEAD LINES TO REMAIN AND BE PROTECTED IN PLACE.
- ⑪ EXISTING SIGN TO BE REMOVED AND SALVAGED.
- ⑫ REMOVE EXISTING AC 12" BEYOND ALL TRENCH WALLS AND A MINIMUM 2' ALONG CURB PROPOSED CURB AND GUTTER, SAWCUT OR PROFILE EDGES OF PAVEMENT TO REMAIN. CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR SCORE LINE.
- ⑬ CONSTRUCT CASE A CURB RAMP.
- ⑭ CONSTRUCT CASE C CURB RAMP.
- ⑮ CONSTRUCT CONCRETE TRANSITION BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
- ⑯ CONSTRUCT AC PAVEMENT REPAIR.
- ⑰ REINSTALL SALVAGED STOP SIGN AND STREET NAMES SIGNS ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.
- ⑱ REINSTALL SALVAGED STOP SIGN ON NEW POST OUTSIDE OF THE PROPOSED IMPROVEMENTS.
- ⑲ REMOVE AND REAPPLY "STOP" MARKING AND STOP BAR.

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- ⑤
29



W. L St. & Arizona Ave. Demolition

SCALE AS SHOWN

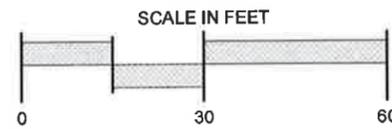


W. L St. & Arizona Ave. Improvements

SCALE AS SHOWN

ESTIMATED QUANTITIES

INSTALL 12" STORM DRAIN PIPE	100	LF
CONSTRUCT MANHOLE	2	EA
CONSTRUCT CATCH BASIN	4	EA
INSTALL FIRE HYDRANT ASSEMBLY	1	EA
AC REMOVAL	1,140	SF
CONCRETE REMOVAL (Includes: Curb, Gutter, Sidewalk, Driveways, etc.)	1,250	SF
AC REPAIRS	1,250	SF
CASE A CURB RAMP	3	EA
CASE C CURB RAMP	1	EA
INSTALL SIGN	2	EA
THERMOPLASTIC MARKINGS	86	SF



REV	DATE	DESCRIPTION	APPR
1			

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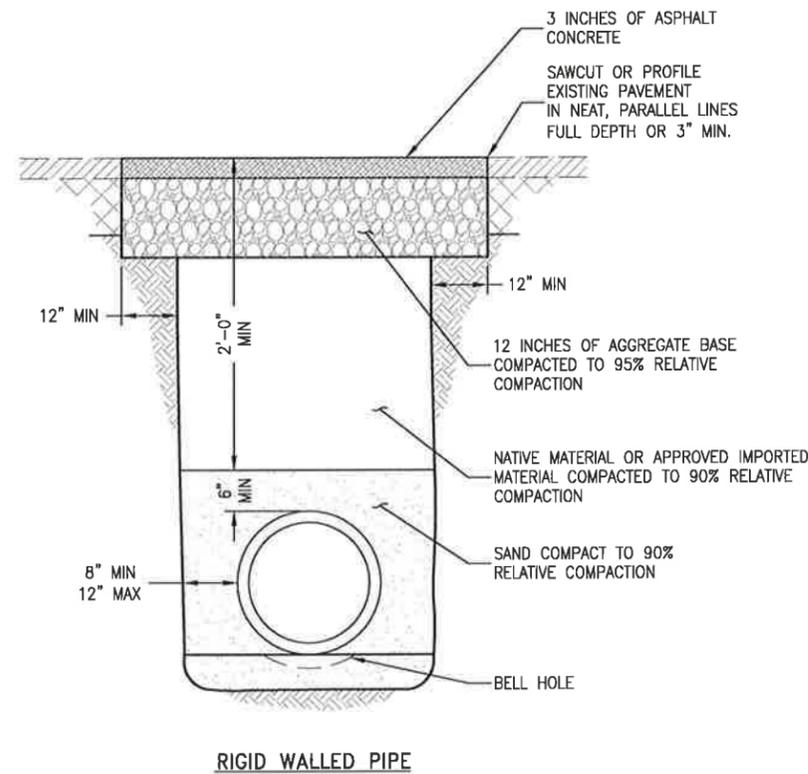


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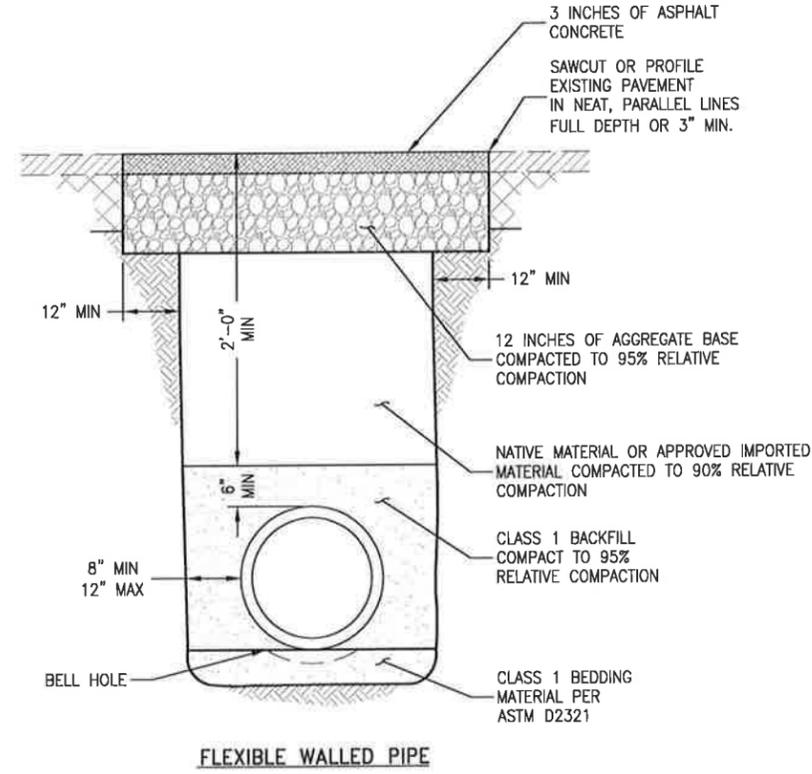
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
W. L STREET AND ARIZONA AVENUE
INTERSECTION IMPROVEMENTS

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-125
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 25
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

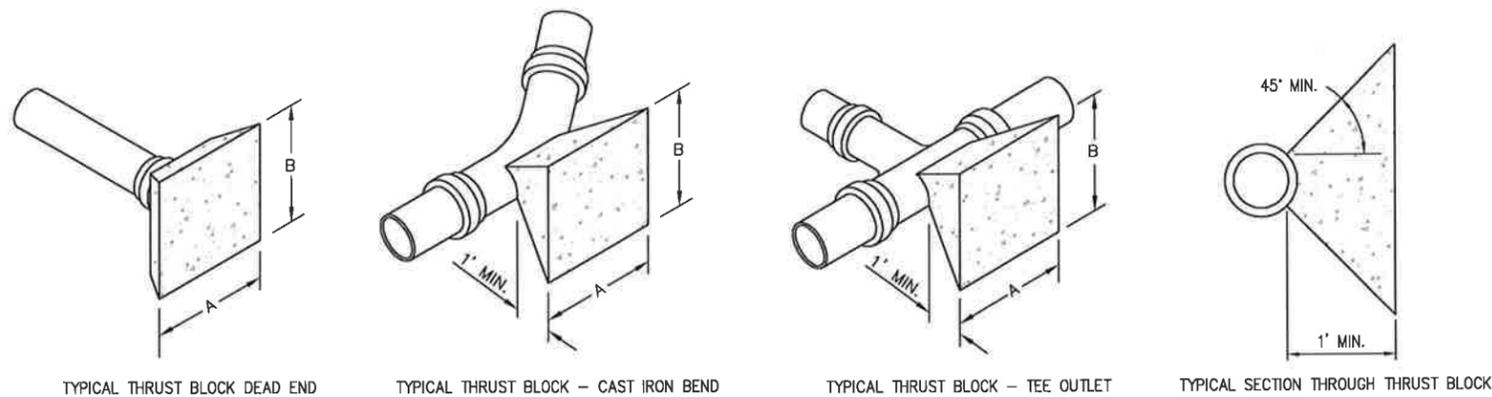


RIGID WALLED PIPE



FLEXIBLE WALLED PIPE

1 TRENCH BACKFILL
NOT TO SCALE



2 THRUST BLOCKS
NOT TO SCALE

FITTINGS	THRUST BLOCK AREA REQUIRED	
	ALLOWABLE SOIL BEARING VALUE	
	1,500 LBS. PER SQ. FT.	
6" LINE	"A"	"B"
22-1/2'	1'-6"	1'-0"
45'	2'-0"	1'-3"
90'	3'-0"	1'-6"
TEE OUTLET	2'-0"	1'-6"
DEAD END	2'-0"	1'-6"
8" LINE	"A"	"B"
22-1/2'	1'-6"	1'-6"
45'	2'-6"	1'-6"
90'	4'-0"	2'-0"
TEE OUTLET	2'-9"	2'-0"
DEAD END	2'-9"	2'-0"
10" LINE	"A"	"B"
22-1/2'	2'-3"	1'-6"
45'	3'-0"	2'-0"
90'	5'-0"	2'-6"
TEE OUTLET	3'-3"	2'-6"
DEAD END	3'-3"	2'-6"

DETAIL NOTES

TRENCHING, PIPE BEDDING, AND BACKFILL

- TRENCH WALL SHOWN VERTICAL FOR CLARITY, EXCAVATE PER OSHA SAFETY REQUIREMENTS.
- SAND SHALL CONFORM TO THE FOLLOWING GRADING REQUIREMENTS

SIEVE SIZE	PERCENTAGE PASSING
#4	100
#16	0-70
#30	0-15
#200	0-5
- FOR PVC PRESSURE PIPE PROVIDE 4" OF MANUFACTURED SAND BEDDING.
- IF THE BOTTOM OF THE TRENCH IS SOFT OR UNSTABLE, IT SHALL BE OVER EXCAVATED A MINIMUM OF 1 FOOT BELOW GRADE AND BACKFILLED WITH APPROVED IMPORTED MATERIAL.
- RELATIVE COMPACTION IS EXPRESSED AS A PERCENTAGE OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557.
- FOR PIPE BEDDING AND BACKFILL PURPOSES, AWWA C900 PIPE SHALL BE CONSIDERED RIGID WALLED.
- TRENCHES NOT IN PAVED AREA SHALL BE RESTORED TO MATCH EXISTING SURFACE CONDITIONS.

THRUST BLOCKS

- ALL VALUES SHOWN ARE MINIMUM FOR A HYDROSTATIC PRESSURE OF 150 P.S.I. AND SOIL RESISTANCE OF 1,500 LBS./SQ. FT. WITH A MINIMUM PIPELINE COVER OF 2'-6".
- REDUCTION OF THE THRUST BLOCK SURFACE AREA WILL BE CONSIDERED UPON SUBMITTAL OF APPROVED SOIL BEARING TEST RESULTS GREATER THAN 1,500 LBS./SQ. FT.
- ALL THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
- THRUST BLOCKS SHOWN ARE FOR HORIZONTAL THRUST RESTRAINT. FOR VERTICAL THRUST RESTRAINT, DETAILS SHALL BE PROVIDED BY THE DESIGN ENGINEER.



May 08, 2017 - 11:11am
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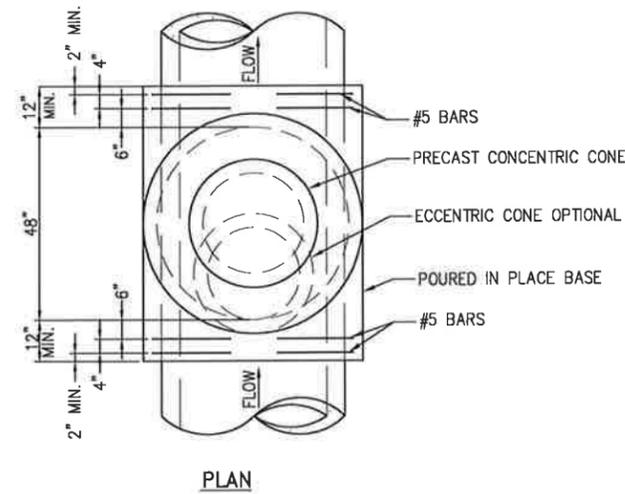
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1			

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Telephone (209) 854-3300 • Fax (209) 854-3600

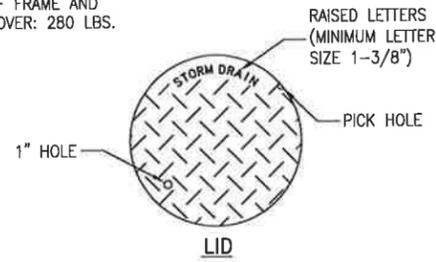
CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
TRENCH BACKFILL AND THRUST BLOCK DETAILS

DESIGNED BY	DATE	DRAWING
N. FONTAINE	03/01/17	C-126
DRAWN BY	DATE	SHEET
N. FONTAINE	03/01/17	26
CHECKED BY	DATE	OF 31 SHEETS
M. GOUVEIA	04/26/17	835.03
APPROVED	DATE	PROJECT NUMBER
M. GOUVEIA	04/26/17	

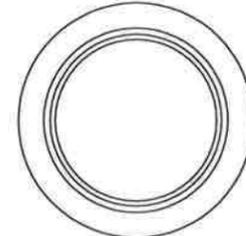


PLAN

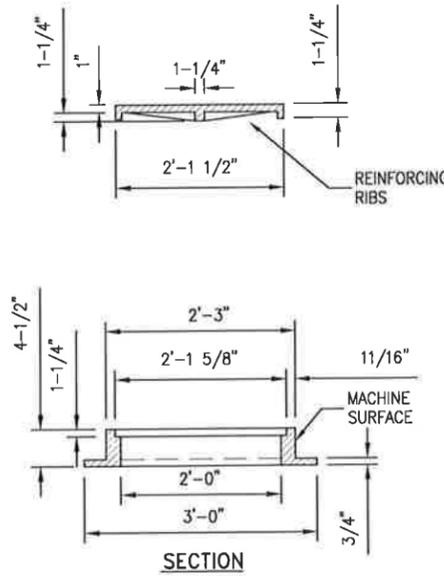
MINIMUM WEIGHT OF FRAME AND COVER: 280 LBS.



LID

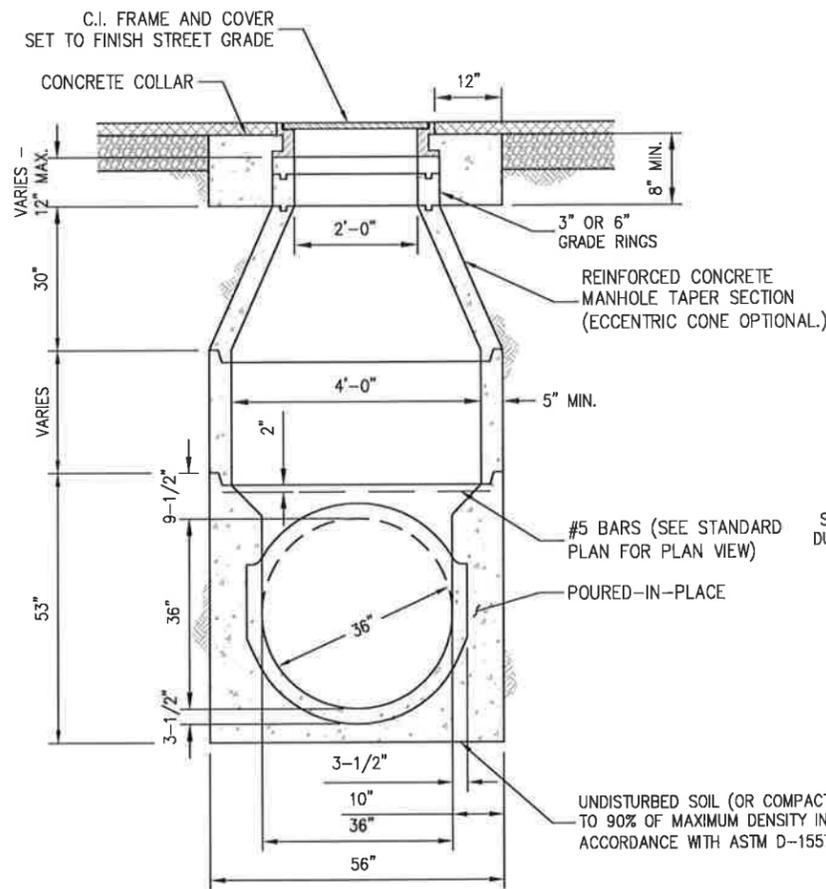


PLAN

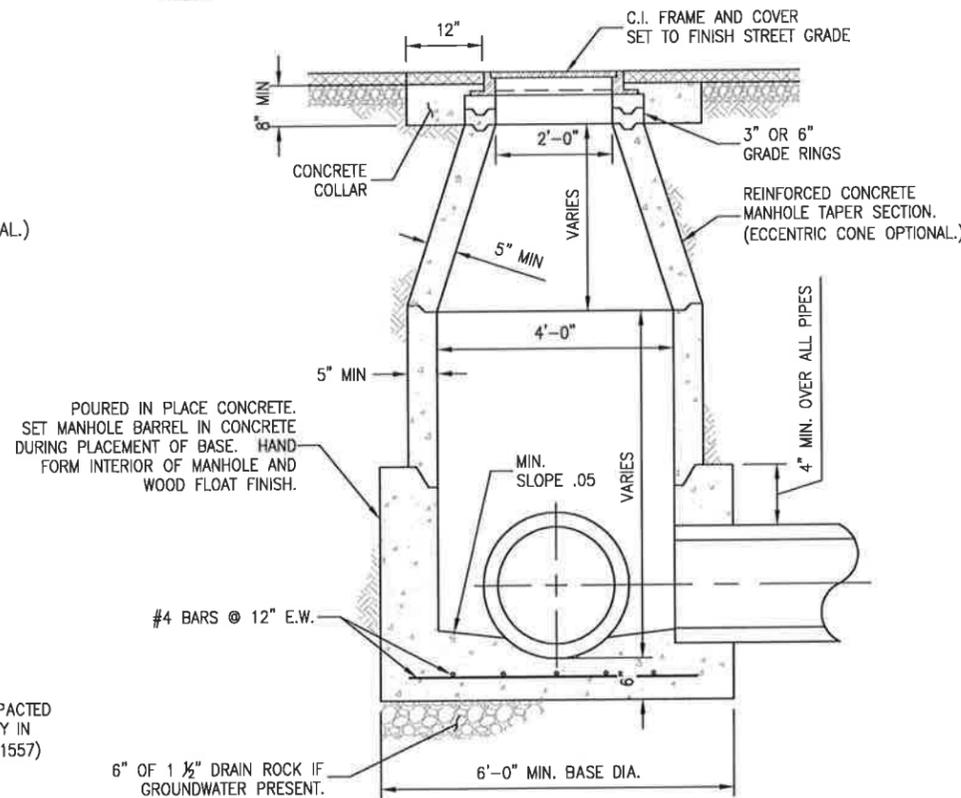


SECTION

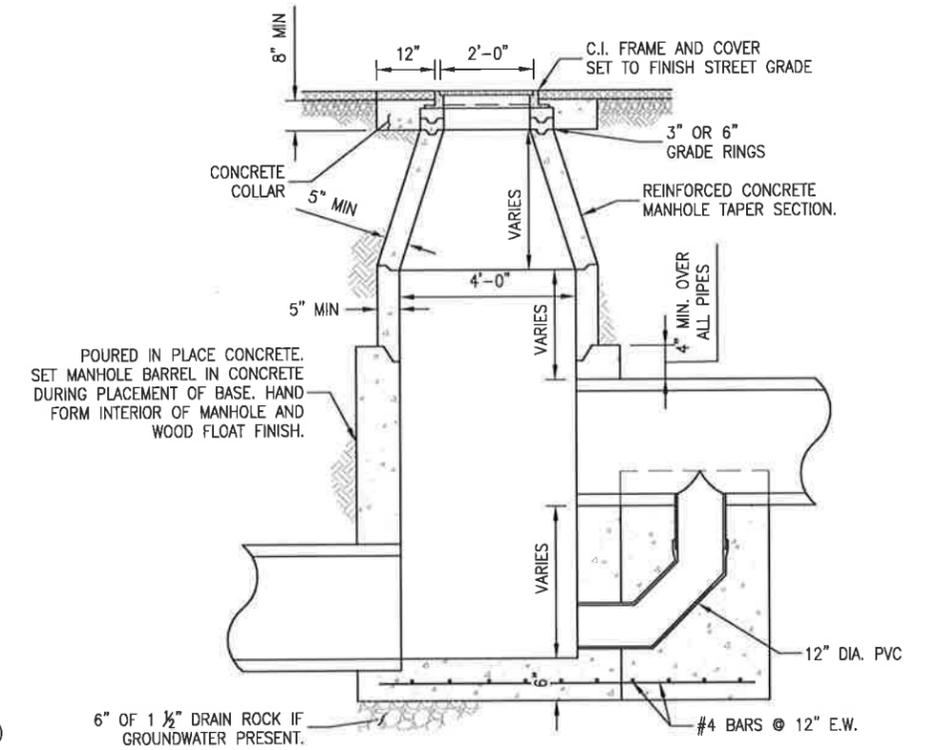
2 MANHOLE FRAME AND COVER
NOT TO SCALE



1 36" STORM DRAIN MANHOLE
NOT TO SCALE



3 STORM DRAIN MANHOLE
NOT TO SCALE



4 STORM DRAIN DROP MANHOLE
NOT TO SCALE



Call before you dig.



Apr 27, 2017 - 6:26pm
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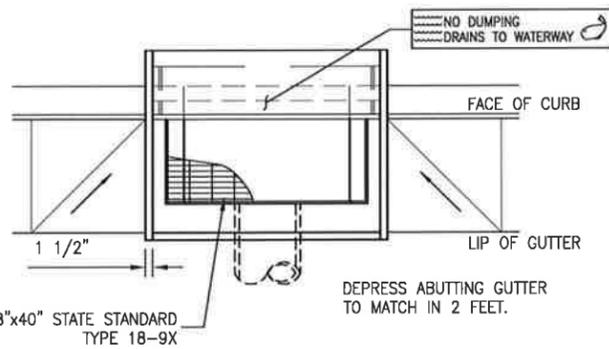
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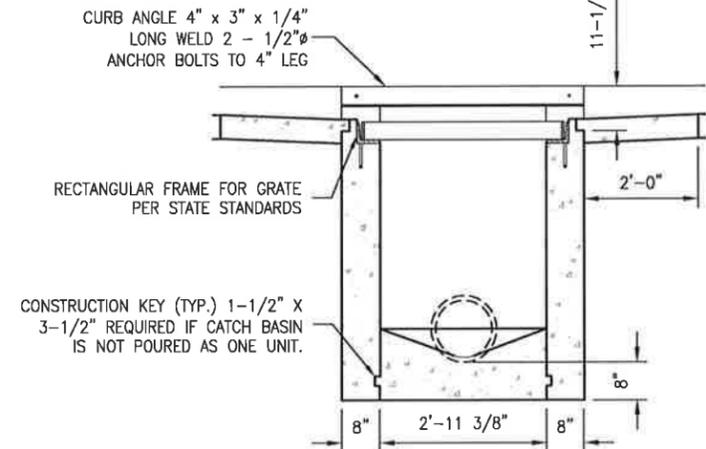
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
STORM DRAIN MANHOLE DETAILS

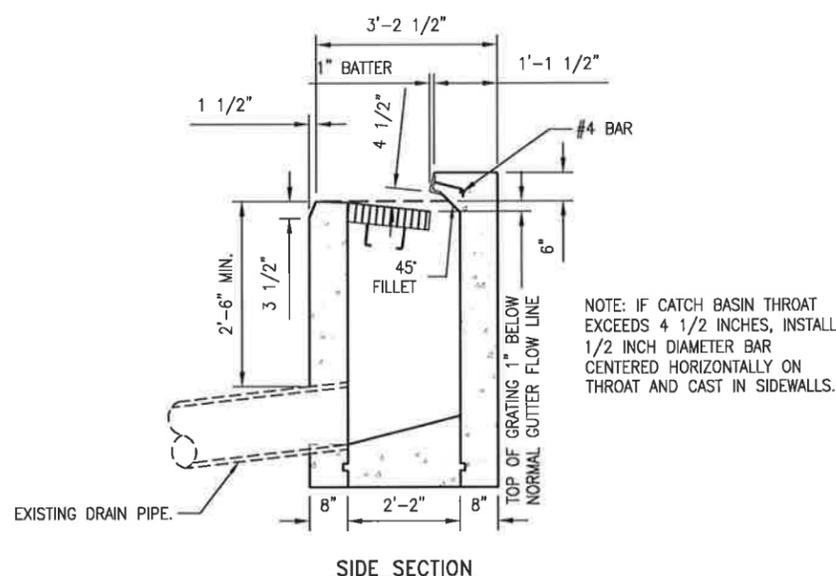
DESIGNED BY	DATE	DRAWING
N. FONTAINE	03/01/17	C-127
DRAWN BY	DATE	SHEET
N. FONTAINE	03/01/17	27
CHECKED BY	DATE	OF 31 SHEETS
M. GOUVEIA	04/26/17	PROJECT NUMBER
APPROVED	DATE	835.03
M. GOUVEIA	04/26/17	



PLAN VIEW

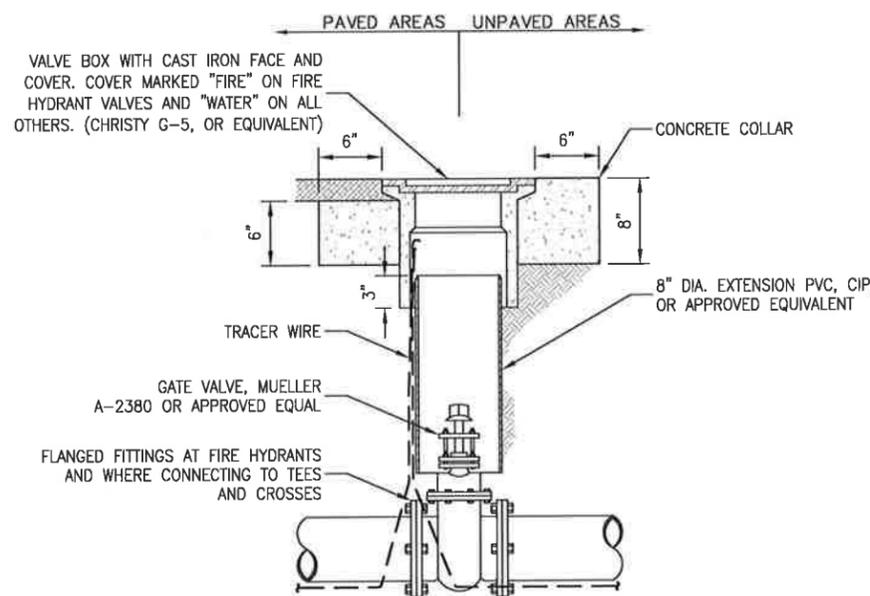


FRONT SECTION

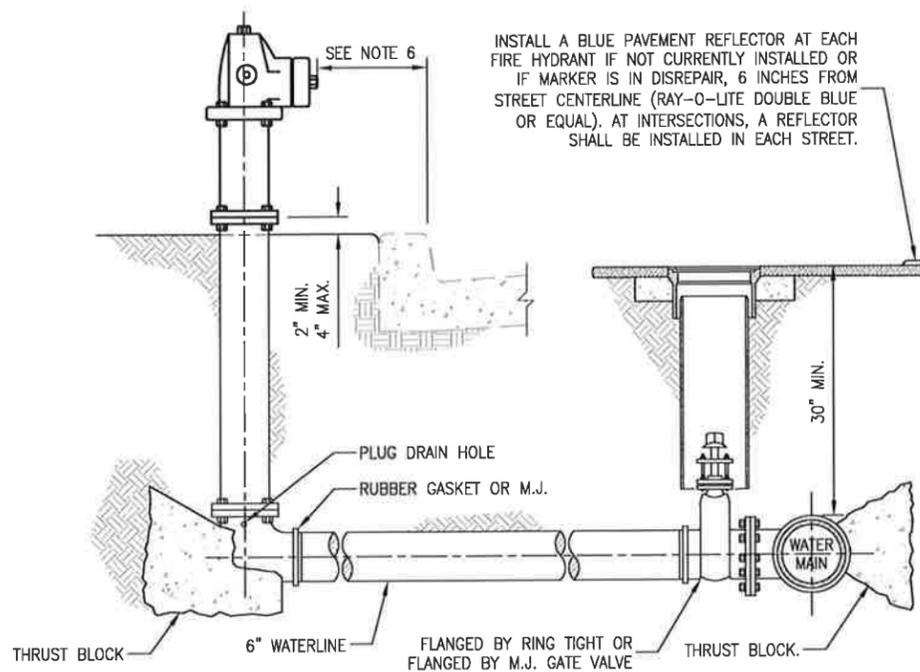


SIDE SECTION

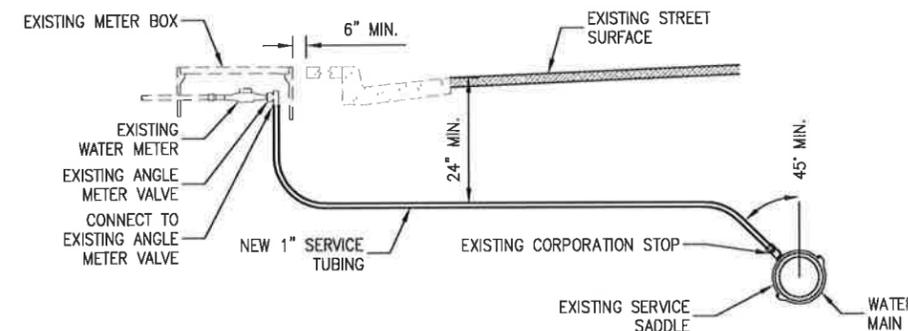
1 TYPE "A" CATCH BASIN
NOT TO SCALE



3 VALVE BOX INSTALLATION
NOT TO SCALE



2 FIRE HYDRANT DETAIL
NOT TO SCALE



3 WATER SERVICE CONNECTION
NOT TO SCALE



Call before you dig.



- ### DETAIL NOTES
- CATCH BASIN**
- ALL METAL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
 - WALL AND FLOOR REINFORCING NOT REQUIRED IF INVERT IS LESS THAN 8" DEEP, OTHERWISE USE NO. 4 BARS AT 12" EACH WAY, CENTERED IN WALLS.
 - "NO DUMPING DRAINS TO WATERWAY" MESSAGE TO BE STAMPED INTO THE CONCRETE. CONCRETE STAMP TO BE PROVIDED BY THE CONTRACTOR AND REQUIRES CITY APPROVAL PRIOR TO BEING IMPLEMENTED.
- FIRE HYDRANTS**
- WRAP THE FIRE HYDRANT AND WATER MAIN FITTINGS WITH 6-MIL PLASTIC PRIOR TO POURING THRUST BLOCKS.
 - FIRE HYDRANTS SHALL BE AVK 2700.
 - HYDRANT SHALL BE INSTALLED SUCH THAT THE NOZZLE CAP IS 6" BEHIND THE BACK OF THE SIDEWALK. IF FIRE HYDRANTS ARE INSTALLED WITHIN PARKWAY THE NOZZLE CAP SHALL BE 12" BEHIND THE BACK OF CURB.
 - HYDRANT SHALL BE FACTORY PAINTED WITH A SILVER ENAMEL FINISH COAT.
- VALVES**
- IF VALVE OPERATING NUT IS INSTALLED DEEPER THAN 2'-6", ATTACH PERMANENT EXTENSION AS APPROVED BY PUBLIC WORKS DIRECTOR.
- WATER SERVICE CONNECTIONS**
- SERVICE TUBING SHALL BE CLASS 160 POLYETHYLENE (PE3406, SDR7, PR160 PSI, CTS). NO JOINTS ARE PERMITTED BETWEEN THE CORPORATION STOP AND THE METER VALVE.

Apr 27, 2017 - 6:27pm
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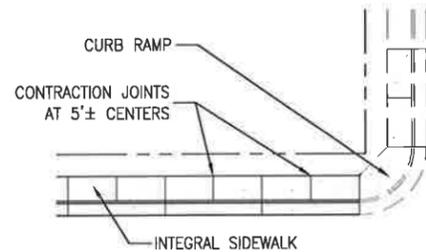


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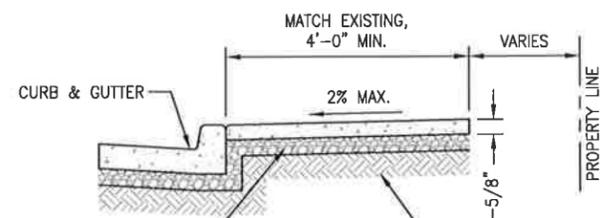
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
CATCH BASIN, FIRE HYDRANT, AND
WATER SERVICE CONNECTION DETAILS

DESIGNED BY	DATE	DRAWING
N. FONTAINE	03/01/17	C-128
DRAWN BY	DATE	SHEET
N. FONTAINE	03/01/17	28
CHECKED BY	DATE	OF 31 SHEETS
M. GOUVEIA	04/26/17	PROJECT NUMBER
APPROVED	DATE	835.03
M. GOUVEIA	04/26/17	



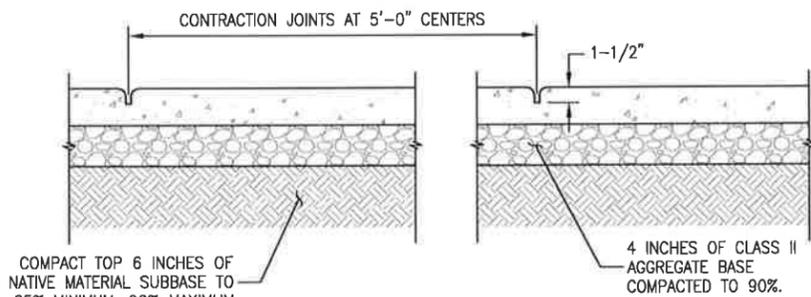
PLAN



4 INCHES OF CLASS II AGGREGATE BASE COMPACTED TO 90% RELATIVE COMPACTION

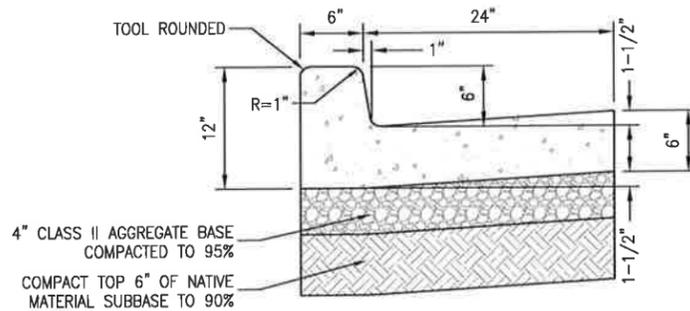
COMPACT TOP 6 INCHES OF NATIVE MATERIAL SUBBASE TO 85% MINIMUM, 90% MAXIMUM RELATIVE COMPACTION

INTEGRAL SIDEWALK

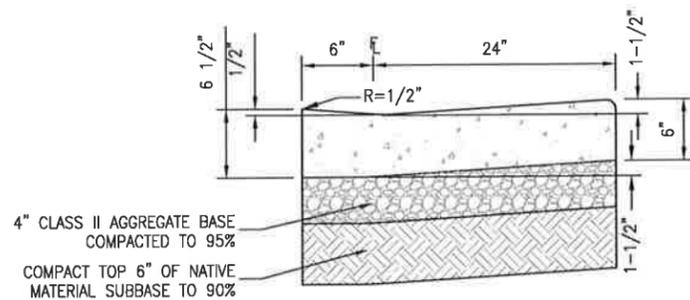


LONGITUDINAL SECTIONS

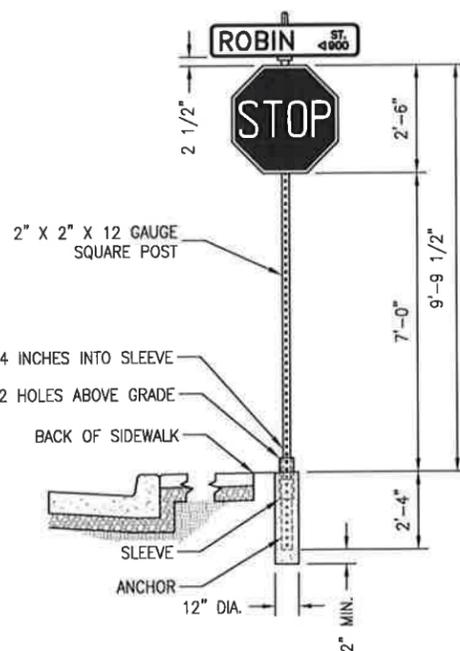
1 SIDEWALK CONSTRUCTION DETAILS
NOT TO SCALE



2 CURB AND GUTTER DETAIL
NOT TO SCALE



3 CURB AND GUTTER DETAIL AT RAMP
NOT TO SCALE

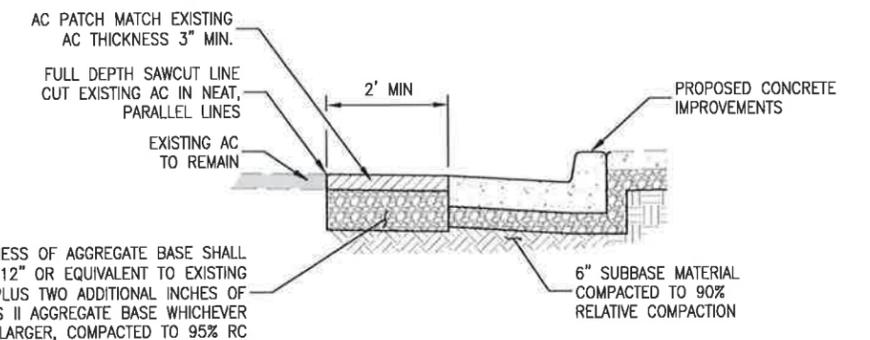


5 STREET SIGN INSTALLATION
NOT TO SCALE

DETAIL NOTES

GENERAL NOTES

1. SOIL DENSITIES ARE EXPRESSED AS A PERCENTAGE OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D 1557.
2. WHEN REMOVING SIDEWALK, CONCRETE SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT.
3. CITY SHALL APPROVE SUBGRADE AND AGGREGATE BASE PRIOR TO PLACEMENT OF CONCRETE.
4. SIDEWALK, CURB AND GUTTER SHALL NOT BE POURED MONOLITHICALLY.
5. ON SIDEWALK, CURB AND GUTTER REPLACEMENT, 6 INCHES OF CLASS II AGGREGATE BASE COMPACTED TO 90% AND 95% RESPECTIVELY OVER UNDISTURBED NATIVE MATERIAL SUBBASE, MAY BE USED IN LIEU OF 4 INCHES OF CLASS II AGGREGATE BASE OVER 6 INCHES OF COMPACTED NATIVE MATERIAL SUBBASE.
6. IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE THE GEOTECHNICAL ENGINEER SHALL CERTIFY THE MOISTURE CONTENT OF THE NATIVE MATERIAL SUBBASE HAS A MOISTURE CONTENT OF NOT LESS THAN 3%. IN ADDITION, AGGREGATE BASE SHALL HAVE A MOISTURE CONTENT AS SPECIFIED BY THE DIRECTOR.
7. WHEN CONSTRUCTING NEW CURB AND GUTTER, SAWCUT TOP AND FACE OF EXISTING CURB, GUTTER, AND SIDEWALK TO A MINIMUM DEPTH OF 2 INCHES PRIOR TO REMOVAL. CHIP CONCRETE TO A VERTICAL PLANE BELOW SAWCUT. ALSO, SAWCUT, REMOVE AND REPLACE EXISTING AC IN FRONT NEW CURB AND GUTTER AS REQUIRED BY THE DIRECTOR.



THICKNESS OF AGGREGATE BASE SHALL BE 12" OR EQUIVALENT TO EXISTING PLUS TWO ADDITIONAL INCHES OF CLASS II AGGREGATE BASE WHICHEVER IS LARGER, COMPACTED TO 95% RC

6 PAVEMENT REPAIRS
NOT TO SCALE



Apr 27, 2017 - 6:27 pm V:\CADD\8355103\cad\plan\sheet\83500C-128.dwg

REV	DATE	DESCRIPTION	APPR

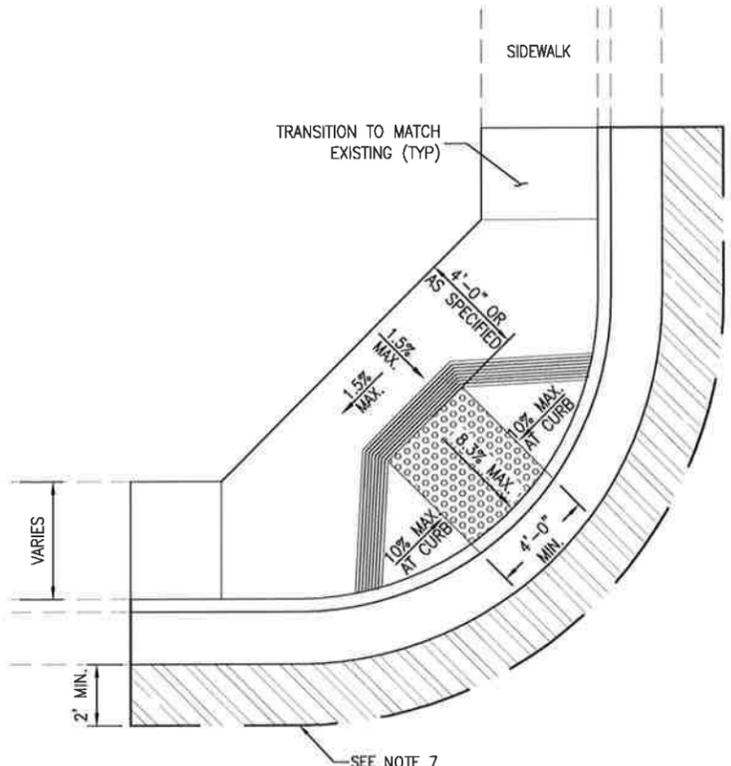
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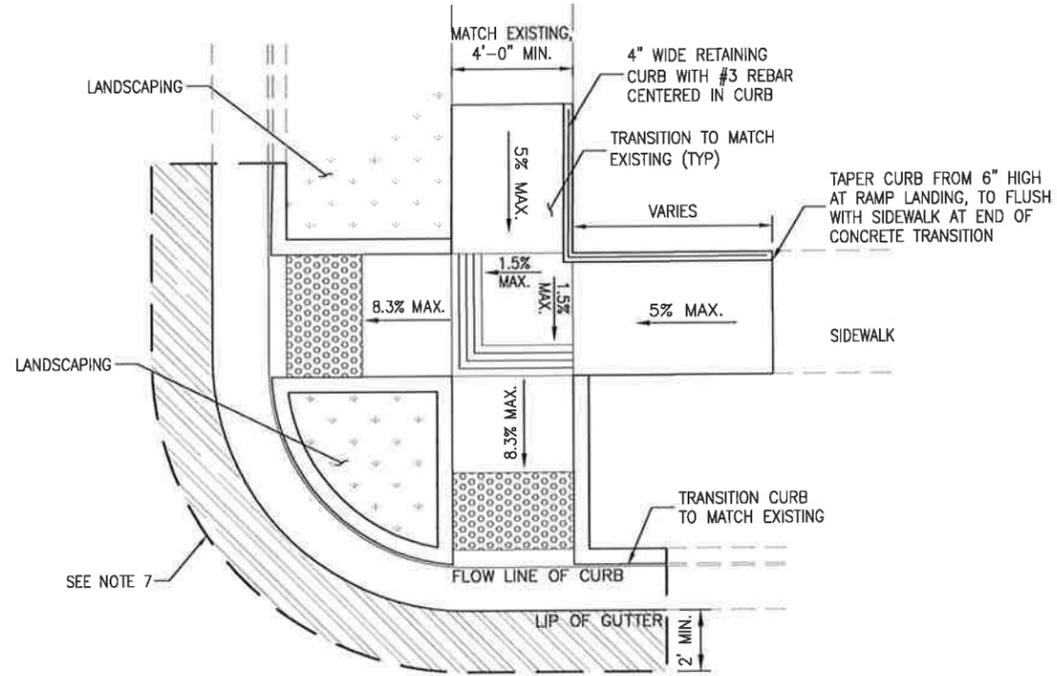
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CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
SIDEWALK, CURB AND GUTTER,
SIGN INSTALL, AND PAVEMENT REPAIR DETAILS

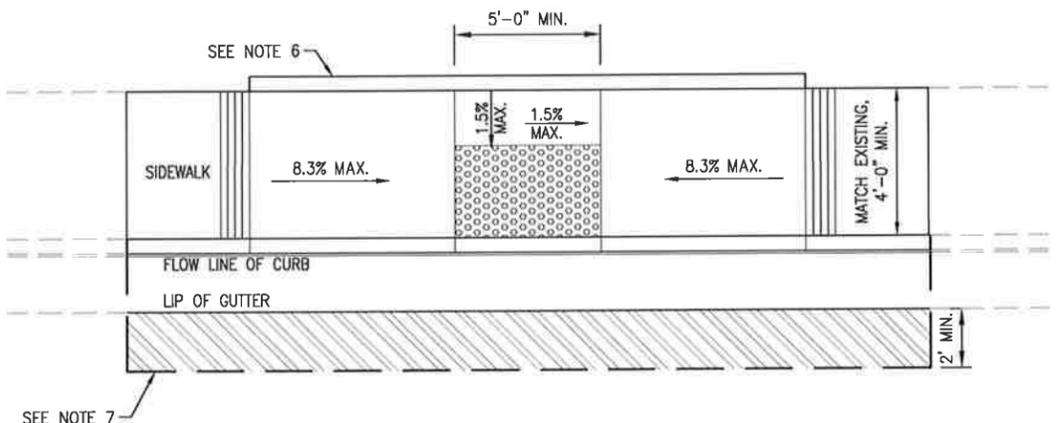
DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-129
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 29
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS PROJECT NUMBER 835.03
APPROVED M. GOUVEIA	DATE 04/26/17	



1 CASE A CURB RAMP
NOT TO SCALE



2 DUAL CASE F RAMP
NOT TO SCALE



3 CASE C CURB RAMP
NOT TO SCALE

- NOTES**
- CURB RAMPS**
- SIDEWALK AND CURB RAMP IN RETURN AREA SHALL BE 5-1/2" THICK MINIMUM.
 - TOP OF CURB SHALL BE FLUSH WITH GUTTER FLOWLINE AT RAMP.
 - PLACE 6 INCHES OF CLASS II AGGREGATE BASE COMPACTED TO 95% OVER 6 INCHES OF NATIVE MATERIAL SUBBASE COMPACTED TO 90% UNDER RAMP.
 - YELLOW DETECTABLE WARNING SURFACE (TRUNCATED DOMES) SHALL BE CAST IN PLACE UNITS AND SHALL EXTEND THE FULL WIDTH AND 3 FEET DEEP ON THE RAMP. PANELS SHALL MATCH THE BULB OUT RADIUS. THE DETECTABLE WARNING SURFACE SHALL MEET THE LATEST REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6 INCHES AND 9 INCHES FROM THE GUTTER FLOW LINE.
 - THE CURB RAMP SHALL BE OUTLINED, AS SHOWN, WITH A 1 FOOT WIDE BORDER WITH 1/4" WIDE GROOVES 3/4" ON CENTER. GROOVES SHALL BE 1/4" DEEP.
 - 6" WIDE BY 12" DEEP CURB. TOP OF CURB SHALL BE FLUSH WITH RAMP LANDING AT SIDEWALK AND 6" ABOVE GUTTER FLOWLINE AT CURB AND GUTTER.
 - WHEN CONSTRUCTING A NEW CURB RAMP, SAWCUT TOP AND FACE OF CURB, GUTTER, AND SIDEWALK TO A MINIMUM DEPTH OF 2 INCHES PRIOR TO REMOVAL. CHIP CONCRETE TO A VERTICAL PLANE BELOW SAWCUT. ALSO, SAWCUT, REMOVE, AND REPLACE EXISTING AC IN FRONT OF RETURN OR RAMP AS REQUIRED BY PUBLIC WORKS DIRECTOR.



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456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
K STREET STORM DRAIN IMPROVEMENTS
CURB RAMP DETAILS

DESIGNED BY N. FONTAINE	DATE 03/01/17	DRAWING C-130
DRAWN BY N. FONTAINE	DATE 03/01/17	SHEET 30
CHECKED BY M. GOUVEIA	DATE 04/26/17	OF 31 SHEETS
APPROVED M. GOUVEIA	DATE 04/26/17	PROJECT NUMBER 835.03

