CITY OF TURLOCK

DEVELOPMENT SERVICES ENGINEERING DIVISION

CITY PROJECT NO. 15-57

CITY OF TURLOCK PARKING LOT RECONSTRUCTION

UTILITY CONTACTS

UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600 TO LOCATE UNDERGROUND TELEPHONE, CABLE, GAS, SEWER AND WATER LINES

TURLOCK IRRIGATION DISTRICT
(209) 883-8464 REGARDING UNDERGROUND ELECTRICAL CONDUIT.

TURLOCK IRRIGATION DISTRICT
(209) 883-8384 REGARDING IRRIGATION FACILITIES

CHARTER COMMUNICATIONS
(209) 656-2124 REGARDING UNDERGROUND CABLE TELEVISION.

PACIFIC GAS & ELECTRIC
(209) 576-6609 REGARDING UNDERGROUND GAS LINES

AT&T
(209) 549-5808 REGARDING UNDERGROUND TELEPHONE LINES

CITY OF TURLOCK, MUNICIPAL SERVICES DEPARTMENT
(209) 668-5590 REGARDING UNDERGROUND SEWER AND WATER LINES

FIRE DEPARTMENT
(209) 668-5580

POLICE DEPARTMENT
(209) 668-5550

AMBULANCE
(209) 632-2271

ABBREVIATIONS:

C	CONCRETE
D	DIAMETER
EP	EDGE OF PAVEMENT
FF	FINISH FLOOR
FL	FLOWLINE
HW	HANDWELL
LI	LIP
LP	LOW POINT
MH	MANHOLE
P	PAVEMENT
TC	TOP OF CURB
PE	PLANTING EASEMENT
PUE	PUBLIC UTILITY EASEMENT
R	METAL RAMP GRADE
RW	ROCKWELL
SDCO	STORM DRAIN CLEAN-OUT
SSCO	SANITARY SEWER CLEAN-OUT

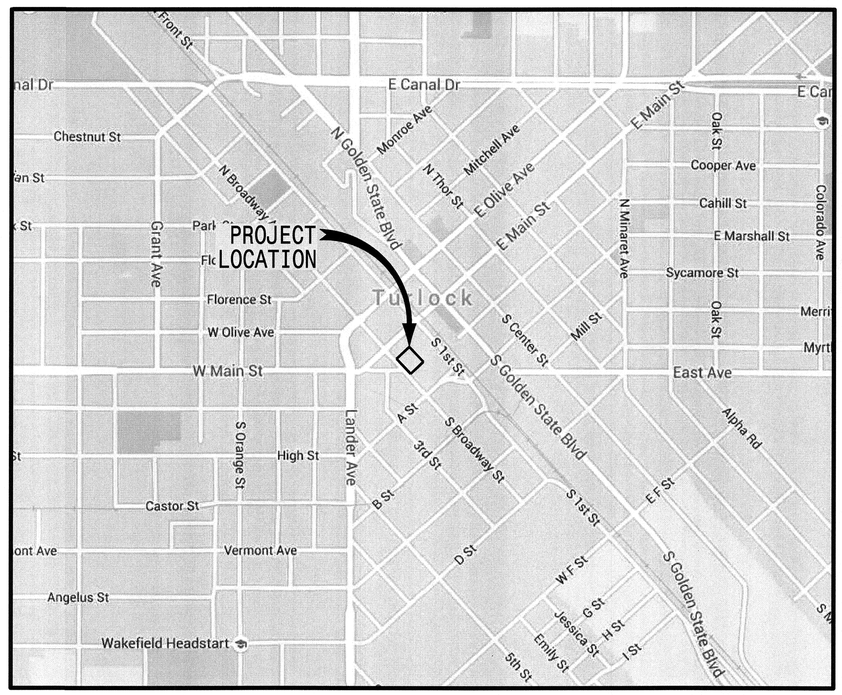
LEGEND:

EXISTING

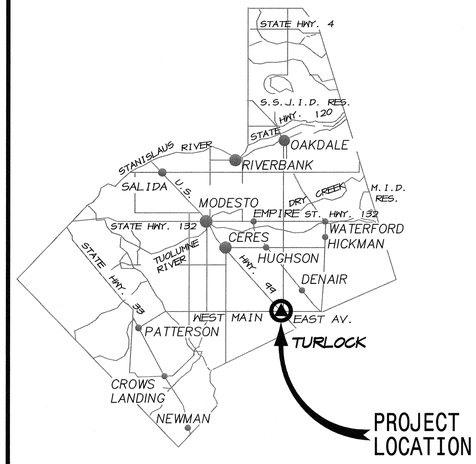
- CONCRETE
- ASPHALT PAVEMENT
- BRICK SIDEWALK
- BUILDING LINE
- BUILDING OVERHANG
- ELECTRICAL BOX
- GAS METER
- LANDSCAPE IRRIGATION BOX
- WATER BOX
- FIRE HYDRANT
- FSR FIRE RISER
- WATER VALVE
- HB HOSE BIB
- BACK FLOW PREVENTER
- OH OVERHEAD UTILITY
- JP JOINT POLE
- SP SERVICE POLE
- MANHOLE
- CLEANOUT
- ELECTROLIER
- SLC LIGHT
- SIGN
- BOLLARD
- CURB AND GUTTER
- DRIVEWAY
- CURB RAMP
- ##" SD STORM DRAIN LINE
- ##" SS SANITARY SEWER LINE
- ##" W WATER LINE
- WALL
- EDGE OF PAVEMENT
- TREE

PROPOSED

- CONCRETE
- ASPHALT PAVEMENT
- BUILDING LINE
- BUILDING OVERHANG
- CHAIN LINK FENCE
- WIRE FENCE
- WOOD FENCE
- FIRE HYDRANT
- WATER VALVE
- BACK FLOW PREVENTER
- CATCH BASIN
- DROP INLET
- E UNDERGROUND ELECTRICAL
- MANHOLE
- CLEANOUT
- ELECTROLIER
- LIGHT
- SIGN
- BOLLARD
- WHEEL STOP
- CURB AND GUTTER
- DRIVEWAY
- CURB RAMP
- ##" SD STORM DRAIN LINE
- ##" SS SANITARY SEWER LINE
- ##" W WATER LINE
- WALL
- EDGE OF PAVEMENT
- PAVEMENT SAWCUT
- TREE
- TOE OF EARTHEN BANK
- TOP OF EARTHEN BANK
- 50.0 MAJOR CONTOUR
- 50.2 MINOR CONTOUR



VICINITY MAP



SHEET INDEX:

SHEET C1 - SHEET INDEX & VICINITY MAP
SHEET C2 - GENERAL NOTES & CITY STANDARD DETAILS
SHEET C3 - EXISTING TOPOGRAPHY
SHEET C4 - DEMOLITION PLAN
SHEET C5 - HORIZONTAL CONTROL & SITE PLAN
SHEET C6 - GRADING AND DRAINAGE PLAN
SHEET C7 - COMPOSITE UTILITY PLAN
SHEET C8 - EROSION CONTROL PLAN
SHEET C9 - SITE SPECIFIC DETAILS

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SHEET L2 - IRRIGATION PLAN
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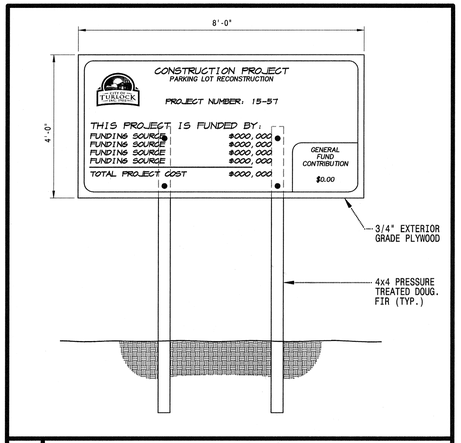
SHEET E0 - SITE LIGHTING PHOTO-METRICS AND ELECTRICAL NOTES
SHEET E1 - SITE ELECTRICAL PLAN AND DETAILS
SHEET E2 - WIRING DIAGRAM AND ELECTRICAL DETAILS



1 TEMP. CONSTRUUCTION SIGN NOT TO SCALE

REVISIONS

NO.	DATE	DESCRIPTION	BY
△	-	-	-

SHEET INDEX & VICINITY MAP

CITY OF TURLOCK
CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION
BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS
LYING IN THE SOUTHWEST QUARTER OF SECTION 14, T.5 S., R.10 E., M.D.B.& M.
CITY OF TURLOCK, COUNTY OF STANISLAUS, STATE OF CALIFORNIA

NO.	DATE	REVISION

DF ENGINEERING, INC.
CIVIL ENGINEERING AND SURVEYING
3421 TULLY ROAD · SUITE J · MODESTO, CA 95350
TELEPHONE (209) 529-7450 · FAX (209) 529-0457
Aug. 3, 2016 DATE
RCE No. 53311

REGISTERED PROFESSIONAL ENGINEER DAVID J. NORBERG No. 53311 CIVIL STATE OF CALIFORNIA

JOB#	1522
FB NO.	262
FILE	B39-20

USA NORTH 811 Call 811 Before You Dig WWW.USANORTH811.ORG

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.

MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL G. PITCOCK No. 52694 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/2/16

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

SHEET INDEX & VICINITY MAP

CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ¾" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	KJE
REV. BY:	---
CH. BY:	DJH
DATE:	Aug., 2016
SCALE:	SHOWN
1522Base.dwg	

SHEET C1 OF 9

GENERAL NOTES:

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS, THE PLANS AND THE PROJECT SPECIAL PROVISIONS. ANY ITEM OF CONSTRUCTION NOT REFERENCED IN THESE DOCUMENTS SHALL BE CONSTRUCTED ACCORDING TO THE LATEST EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS.

2. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS, BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FINEST QUALITY ARE TO BE USED.

3. THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, MATERIALS, TOOLS, EQUIPMENT AND ANY INCIDENTALS NEEDED TO PERFORM THE IMPROVEMENTS AS SHOWN ON THE CONTRACT PLANS.

4. THE CONTRACTOR SHALL NOTIFY NEIGHBORS, TURLOCK SCAVENGER, SCHOOLS AND THE APPROPRIATE EMERGENCY SERVICES AGENCIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

5. AN ENCROACHMENT PERMIT (NO FEE) SHALL BE OBTAINED BY THE CONTRACTOR FROM THE CITY OF TURLOCK PRIOR TO THE START OF WORK.

6. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED,IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR ENGINEER.

7. BENCHMARK: BENCHMARK(S) WILL BE PROVIDED BY THE CITY SURVEYOR UPON REQUEST.

8. ALL DISTANCES AND MEASUREMENTS ARE GIVEN AND WILL BE MADE IN A HORIZONTAL PLANE. GRADE WILL BE GIVEN FROM THE TOP OF NAILS OR STAKES, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PRESERVE ALL POINTS AND STAKES SET FOR LINES AND GRADES OR MEASUREMENTS OF THE WORK, IN THEIR PROPER LOCATION UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.

9. THESE PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE CITY OF TURLOCK WILL PERFORM THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. THE CONTRACTOR SHALL PROVIDE THE CITY OF TURLOCK WITH FORTY-EIGHT HOURS ADVANCE NOTICE OF STAKING NEEDS. ANY STAKING REQUESTED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS THAT IS ABOVE AND BEYOND THE AGREED UPON STAKING REQUEST SHALL BE SUBJECT TO AN EXTRA CHARGE TO THE CONTRACTOR.

10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW HIS WORK PRIOR TO THE REMOVAL OF CONSTRUCTION STAKES. IN THE EVENT THAT DISCREPANCIES ARISE BETWEEN CONSTRUCTION AND STAKING, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO FIELD REVIEW THE CONSTRUCTION STAKES. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR STAKING THAT HAS BEEN REMOVED OR DESTROYED BY THE CONTRACTOR.

11. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. THE CONTRACTOR'S ATTENTION IS CALLED TO THE REQUIREMENTS OF TITLE 8 OF THE CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK."

12. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 9, SECTION 6705, 6706, AND 6707 OF THE STATE LABOR CODE.

13. ALL SUB GRADE PREPARATION AND PAVING SHALL CONFORM TO THE CITY OF TURLOCK'S STANDARD SPECIFICATIONS, AND SHALL BE PLACED TO THE MINIMUM THICKNESS AS SHOWN ON THE PLANS.

14. THE CITY OF TURLOCK, OR ITS REPRESENTATIVE SHALL PROVIDE COMPACTION TESTS AS REQUIRED BY THE CITY. THE FIRST TEST WILL BE PROVIDED AT NO CHARGE TO THE CONTRACTOR. ALL RETEST SHALL BE CHARGED TO THE CONTRACTOR AT A RATE AS NOTED IN THE PROJECT SPECIAL PROVISIONS.

15. APPROPRIATE DUST CONTROL SHALL BE PROVIDED FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE, AT THE CONTRACTOR'S EXPENSE.

16. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE GRADING CONTRACTOR AND LANDSCAPE CONTRACTOR WITH RESPECT TO FINISH GRADING IN PLANTING AREAS. THE GRADING CONTRACTOR SHALL STOCKPILE THE APPROPRIATE YARDAGE FOR THIS USE. THE EXACT AMOUNT OF STOCKPILE SHALL BE DETERMINED BY THE LANDSCAPE CONTRACTOR, AND SHALL BE FREE OF GRASS, WEEDS OR OTHER DEBRIS. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL PLACEMENT AND GRADING IN MOUNDED AREAS.

17. ALL MANHOLE, CLEANOUT AND WATER VALVE FRAME AND COVERS SHALL BE ADJUSTED TO FINISH GRADE BY THE CONTRACTOR.

18. ELECTROLIERS SHALL BE ENERGIZED AND A 72 HOUR BURN IN COMPLETED PRIOR TO THE FINAL ACCEPTANCE OF THE IMPROVEMENTS.

19. A. THE CONTRACTOR SHALL PROMPTLY, AND BEFORE THE FOLLOWING CONDITIONS ARE DISTURBED, NOTIFY THE CITY, IN WRITING, OF ANY:

    1. MATERIAL THAT THE CONTRACTOR BELIEVES MAY BE MATERIAL THAT IS HAZARDOUS WASTE, AS DEFINED IN SECTION 25117 OF THE HEALTH AND SAFETY CODE, THAT IS REQUIRED TO BE REMOVED TO A CLASS I, CLASS II, OR CLASS III DISPOSAL ACCORDANCE WITH PROVISIONS OF EXISTING LAW.

    2. SUBSURFACE OR LATENT PHYSICAL CONDITIONS AT THE SITE DIFFERING FROM THOSE INDICATED BY INFORMATION ABOUT THE SITE MADE AVAILABLE TO BIDDERS PRIOR TO THE DEADLINE FOR SUBMITTING BIDS.

    3. UNKNOWN PHYSICAL CONDITIONS AT THE SITE OF ANY UNUSUAL NATURE, DIFFERENT MATERIALLY FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE CONTRACT.

    B. THE CITY SHALL PROMPTLY INVESTIGATE THE CONDITIONS, AND IT IT FINDS THAT THE CONDITIONS DO MATERIALLY SO DIFFER, OR DO INVOLVE HAZARDOUS WASTE, AND CAUSE A DECREASE OR INCREASE IN THE CONTRACTOR'S COST OF, OR THE TIME REQUIRED FOR PERFORMANCE OF ANY PART OF THE WORK SHALL ISSUE A CHANGE ORDER UNDER THE PROCEDURES DESCRIBED IN THE CONTRACT.

    C. THAT, IN THE EVENT THAT A DISPUTE ARISES BETWEEN THE LOCAL PUBLIC ENTITY AND THE CONTRACTOR WHETHER THE CONDITIONS MATERIALLY DIFFER, OR INVOLVE HAZARDOUS WASTE, OR CAUSE A DECREASE OR INCREASE IN THE CONTRACTOR'S COST OF, OR TIME REQUIRED FOR, PERFORMANCE OF ANY PART OF THE WORK, THE CONTRACTOR SHALL NOT BE EXCUSED FROM ANY SCHEDULED COMPLETION DATE PROVIDED FOR BY THE CONTRACT, BUT SHALL PROCEED WITH ALL WORK TO BE PERFORMED UNDER THE CONTRACT. THE CONTRACTOR SHALL RETAIN ANY AND ALL RIGHTS PROVIDED EITHER BY CONTRACT OR BY LAW WHICH PERTAIN TO THE RESOLUTION OF DISPUTES AND PROTESTS BETWEEN THE CONTRACTING PARTIES.

UTILITIES:

1. EXISTING UNDERGROUND UTILITIES SHOWN ARE TAKEN FROM RECORD INFORMATION AND VERIFIED IN THE FIELD, WHENEVER POSSIBLE, TO AID THE CONTRACTOR. THE CONTRACTOR SHALL PRESERVE ALL EXISTING UTILITIES INCLUDING GAS, WATER, IRRIGATION, POWER, TELEPHONE, SEWER, STORM OR OTHERS WHICH MAY BE PRESENT IN THE AREA OF CONSTRUCTION. THE ENGINEER AND RESPECTIVE UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL VERIFY THE VERTICAL AND HORIZONTAL LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES BY "POT HOLING" THE EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF A CONFLICT EXISTS BETWEEN EXISTING AND PROPOSED UTILITY LINES. IF CONFLICTS EXIST, FIELD ADJUSTMENTS SHALL BE MADE AS DETERMINED BY THE ENGINEER.

2. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A DETAILED PLAN SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF FIVE FEET OR MORE. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS, THE PLANS SHALL BE PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER.

3. PRIOR TO INSTALLATION OF SANITARY SEWER OR STORM DRAINAGE FACILITIES, THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION AND DEPTH OF THE POINTS OF CONNECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN THE PLANS AND EXISTING CONDITIONS. IF THE CONTRACTOR CHOOSES TO BEGIN INSTALLATION OF SANITARY SEWER OR STORM DRAINAGE FACILITIES "UP-STREAM" OF PROPOSED POINTS OF CONNECTION WITHOUT PRIOR VERIFICATION OF EXISTING CONDITIONS, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH CORRECTING POTENTIAL PROBLEMS.

4. ALL UTILITY LINE TRENCHES SHALL BE BACKFILLED AND RECOMPACTED IN ACCORDANCE WITH THE CITY OF TURLOCK STANDARD SPECIFICATIONS.

STORM DRAIN:

1. STORM DRAIN PIPE SHOWN ON THE PLAN SHALL BE PER THE LATEST EDITION OF THE CITY OF TURLOCK STANDARD SPECIFICATIONS, SECTION 17. TRENCHING AND BACKFILLING SHALL CONFORM TO 14 OF SAID STANDARDS (DWG NO. T-1).

2. STORM DRAINAGE PIPE SHALL CONFORM TO CITY OF TURLOCK STANDARDS: FOR THIS PROJECT, EITHER REINFORCED CONCRETE PIPE (RCP) WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C-76 CL III MINIMUM (UNLESS NOTED OTHERWISE ON THE PLANS) OR SDR-26 CONFORMING TO THE REQUIREMENTS OF SECTION 17 OF SAID STANDARDS. FITTINGS SHALL BE SDR-26 GASKETED CONFORMING TO ASTM D-3034 & F-1336.

3. STRUCTURE BACKFILL FOR MANHOLES SHALL BE TYPE "C" PER SECTION 19-3.06 OF STATE SPECIFICATIONS; MAXIMUM LIFT THICKNESS FOR BEDDING AND BACKFILL SHALL BE 0.67' BEFORE COMPACTION; 95% COMPACTION SHALL BE ACHIEVED.

WATER NOTES:

1. WATER PIPE SHOWN ON THE PLAN SHALL BE PER THE LATEST EDITION OF THE CITY OF TURLOCK STANDARD SPECIFICATIONS, SECTION 15.

2 CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE BY CITY OF TURLOCK CREWS. CONTRACTOR SHALL EXCAVATE THE AREA AND PROVIDE ALL MATERIALS REQUIRED.

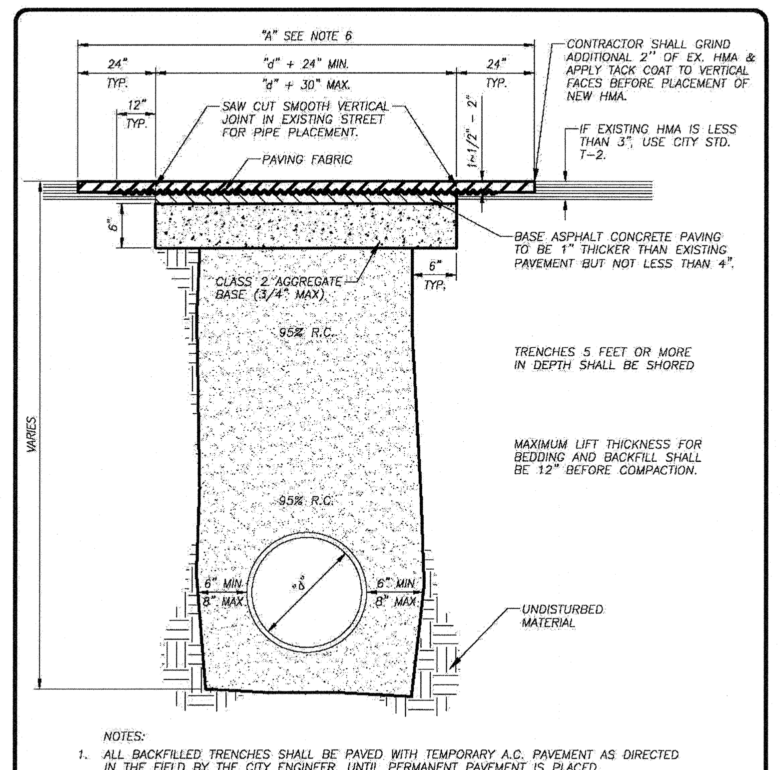
3. OPERATION OF WATER VALVES OR OTHER CONTROL DEVICES SHALL BE DONE BY CITY OF TURLOCK CREWS.

4. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM FINISH GRADE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND THE ELEVATION OF EXISTING WATER LINES PRIOR TO BEGINNING CONSTRUCTION.

5. WATER LINES SHALL BE CHLORINATED AND TESTED IN ACCORDANCE WITH THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND THE TEST RESULTS SHALL BE APPROVED BY THE CITY OF TURLOCK PRIOR TO THE CONNECTION TO THE CITY WATER SYSTEM. THE FIRST TEST WILL BE PROVIDED AT NO CHARGE TO THE CONTRACTOR. ALL RETEST SHALL BE CHARGED TO THE CONTRACTOR AT A RATE AS NOTED IN THE PROJECT SPECIAL PROVISIONS.

6. 1" WATER LINES SHALL BE 1" ULTRA HIGH MOLECULAR WEIGHT (UHMW) POLYETHYLENE, SIDR 7 (IPS), 160 PSI RATING CONFORMING TO THE LATEST EDITION OF THE UNIFORM PLUMBING CODE AND THE REQUIREMENTS OF THE CITY OF TURLOCK BUILDING DEPARTMENT.

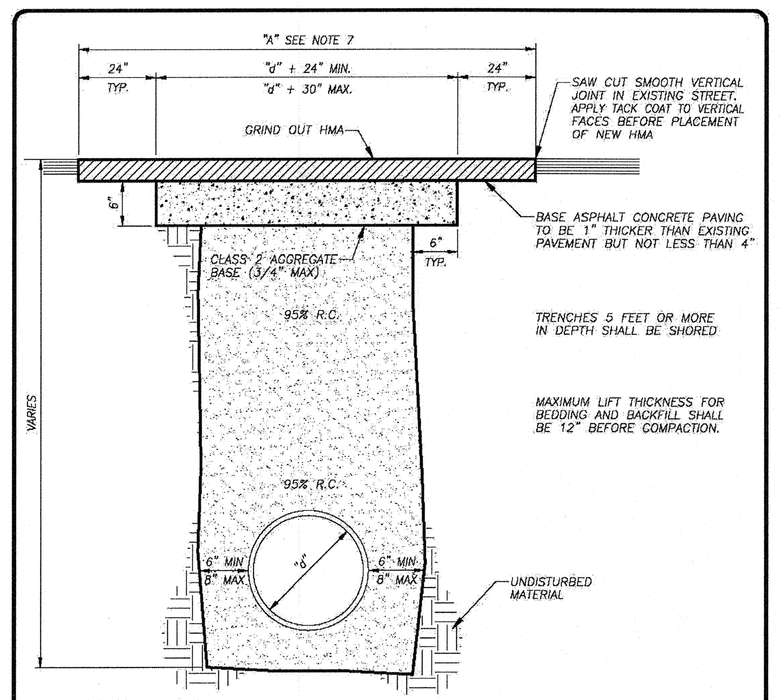
7. WATER SERVICES SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE PLAN, OR AT LOCATIONS AS DETERMINED BY THE ENGINEER, IF ADDITIONAL SERVICES ARE REQUIRED.



NOTES:
1. ALL BACKFILLED TRENCHES SHALL BE PAVED WITH TEMPORARY A.C. PAVEMENT AS DIRECTED IN THE FIELD BY THE CITY ENGINEER, UNTIL PERMANENT PAVEMENT IS PLACED
2. BACKFILL SHALL BE NATIVE WITH COMPACTION TESTS, EXCEPT AS PROVIDED IN NOTE NO. 4
3. COMPACTION TESTS SHALL BE APPROVED BY THE CITY BEFORE PAVING.
4. TRENCHES WHICH ARE 30" IN DEPTH OR LESS THAN 18" IN WIDTH OR LESS, SHALL BE BACKFILLED WITH TWO SACK CEMENT SLURRY.
5. IN LIEU OF COMPACTION TESTS, BACKFILL MAY BE TWO SACK CEMENT SLURRY.
6. FOR LONGITUDINAL TRENCHES OVER 150 FEET LONG, "A" SHALL BE 12 FEET MIN. AND SHALL BE DONE BY A PAVING MACHINE.
7. IN CASE OF REPAIRING A SECTION OF PIPE, ALL STEPS OF TRENCHING SHALL BE REPEATED

TYPICAL TRENCH EXCAVATION AND BACKFILL

CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. T-1 — COUNCIL APPROVAL DEC, 2015



NOTES:
1. ONLY TO BE USED IF EXISTING ASPHALT IS LESS THAN 3" OR WITH THE WRITTEN PERMISSION OF THE CITY ENGINEER.
2. ALL BACKFILLED TRENCHES SHALL BE PAVED WITH TEMPORARY A.C. PAVEMENT AS DIRECTED IN THE FIELD, BY THE CITY ENGINEER, UNTIL PERMANENT PAVEMENT IS PLACED.
3. BACKFILL SHALL BE NATIVE WITH COMPACTION TESTS, EXCEPT AS PROVIDED IN NOTE NO. 4.
4. COMPACTION TESTS SHALL BE APPROVED BY THE CITY BEFORE PAVING.
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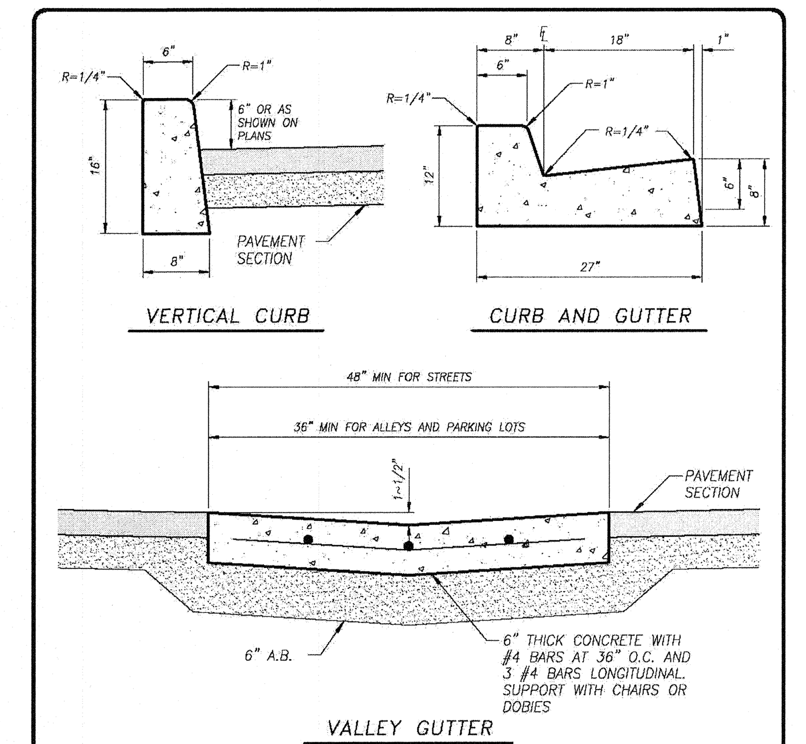
8. IN CASE OF REPAIRING A SECTION OF PIPE, ALL STEPS OF TRENCHING SHALL BE REPEATED.

TRENCH EXCAVATION AND BACKFILL

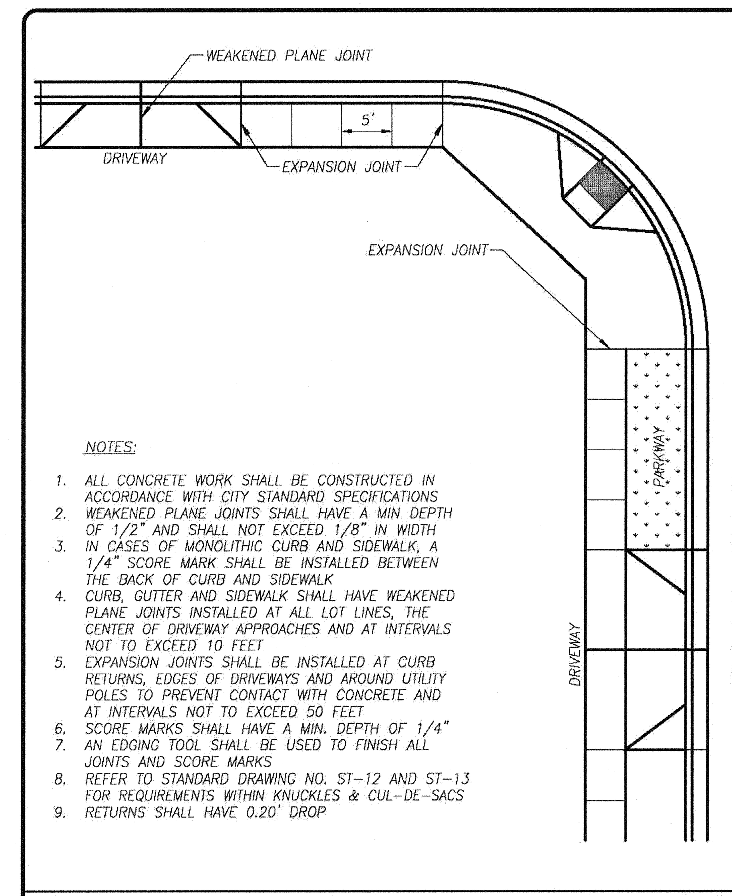
CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. T-2 — COUNCIL APPROVAL DEC, 2015



NOTES:
1. INSTALL WEAKENED PLANE JOINT AT 10' INTERVALS
2. GUTTER FLOW LINES SHALL BE WATER TESTED FOR FLOW
3. FLOW LINE OF GUTTERS SHALL SLOPE AT 0.20% MIN, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER

CURB AND GUTTERS

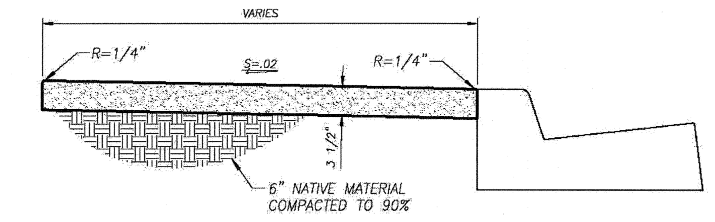
CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. C-1 — COUNCIL APPROVAL DEC, 2015



NOTES:
1. ALL CONCRETE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS
2. WEAKENED PLANE JOINTS SHALL HAVE A MIN DEPTH OF 1/2" AND SHALL NOT EXCEED 1/8" IN WIDTH
3. IN CASES OF MONOLITHIC CURB AND SIDEWALK, A 1/4" SCORE MARK SHALL BE INSTALLED BETWEEN THE BACK OF CURB AND SIDEWALK
4. CURB, GUTTER AND SIDEWALK SHALL HAVE WEAKENED PLANE JOINTS INSTALLED AT ALL LOT LINES, THE CENTER OF DRIVEWAY APPROACHES AND AT INTERVALS NOT TO EXCEED 10 FEET
5. EXPANSION JOINTS SHALL BE INSTALLED AT CURB RETURNS, EDGES OF DRIVEWAYS AND AROUND UTILITY POLES TO PREVENT CONTACT WITH CONCRETE AND AT INTERVALS NOT TO EXCEED 50 FEET
6. SCORE MARKS SHALL HAVE A MIN. DEPTH OF 1/4"
7. AN EDGING TOOL SHALL BE USED TO FINISH ALL JOINTS AND SCORE MARKS
8. REFER TO STANDARD DRAWING NO. ST-12 AND ST-13 FOR REQUIREMENTS WITHIN KNUCKLES & CUL-DE-SACS
9. RETURNS SHALL HAVE 0.20' DROP

CURB, GUTTER AND SIDEWALK PATTERN

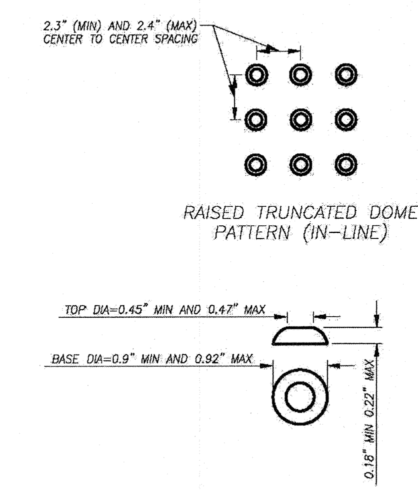
CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. C-2 — COUNCIL APPROVAL DEC, 2015



NOTES:
1. ALL CONCRETE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS
2. SEE ST-1 FOR ADDITIONAL INFORMATION REGARDING SIDEWALK LOCATION
3. SEE C-2 FOR LOCATIONS OF JOINTS AND SCORE MARKS
4. PROVIDE MIN 48" OF CLEARANCE AROUND OBSTRUCTIONS. SEE C-4.

RESIDENTIAL AND COMMERCIAL SIDEWALK

CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. C-3 — COUNCIL APPROVAL DEC, 2015



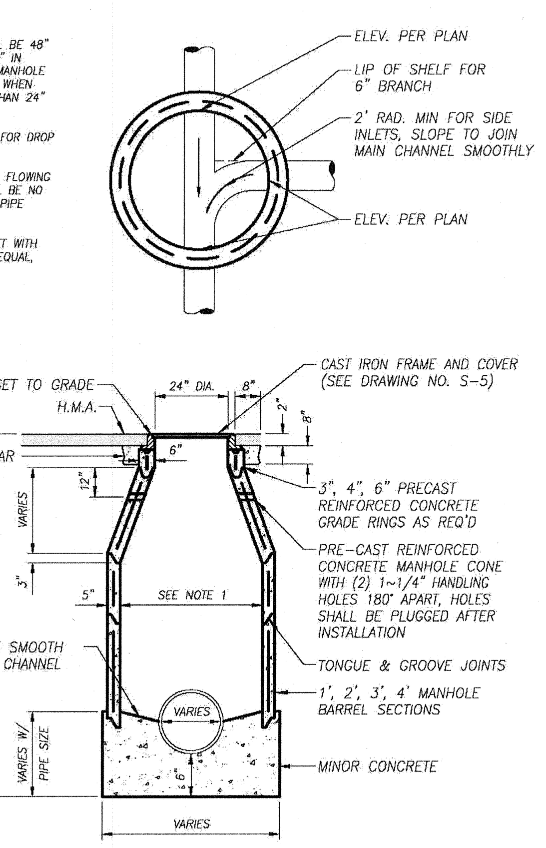
DETECTABLE WARNING SURFACE

NOTES:
1. CAST-IN-PLACE PREFABRICATED DETECTABLE WARNING SURFACE SHALL BE COMPOSED OF A VITRIFIED POLYMER INCLUDING ALUMINUM OXIDE ("ARMOR-TILE" OR APPROVED EQUAL). COLOR SHALL BE SAFETY YELLOW. FIELD SURFACE AND TOP OF DOMES TO HAVE A SLIP RESISTANCE SURFACE.
2. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'~0" DEPTH OF THE RAMP. A 4'~0" WIDE DETECTABLE WARNING SURFACE MAY BE USED ON A 4'~2" WIDE CURB RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS.

DETECTABLE WARNING SURFACE

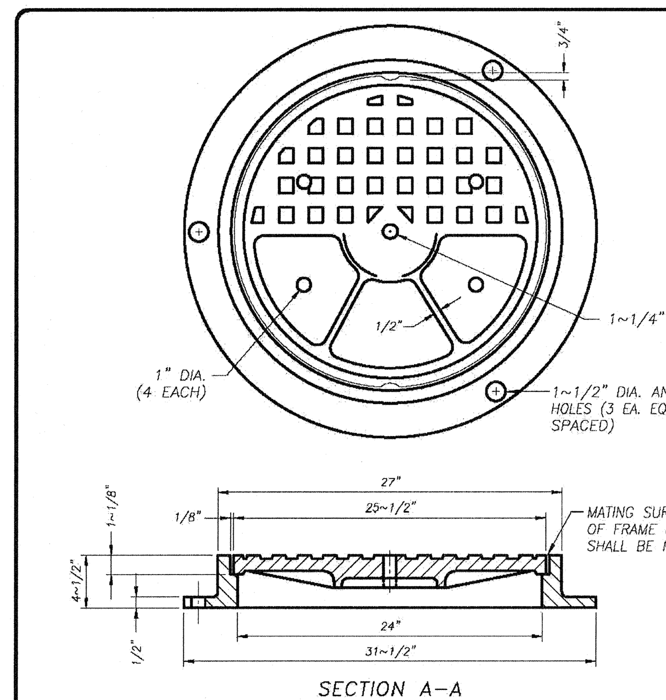
CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. C-15 — COUNCIL APPROVAL DEC, 2015

NOTES:
1. MANHOLE DIAMETER SHALL BE 48" WHEN SERVING PIPES 24" IN DIAMETER OR SMALLER. MANHOLE DIAMETER SHALL BE 60" WHEN SERVING PIPES LARGER THAN 24" IN DIAMETER
2. SEE STANDARD DWG. S-4 FOR DROP MANHOLE DETAIL
3. THE DEPTH OF CHANNELS FLOWING INTO THE MAIN LINE SHALL BE NO DEEPER THAN HALF IT'S PIPE DIAMETER
4. ALL JOINTS SHALL BE SET WITH RAMNEK, OR APPROVED EQUAL, AND GROUTED



STANDARD MANHOLE

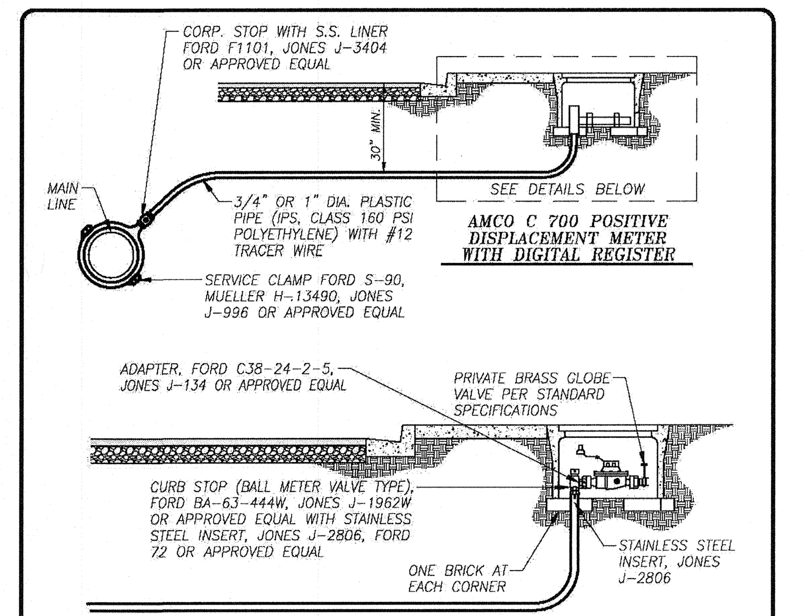
CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. S-3 — COUNCIL APPROVAL DEC, 2015



NOTES:
1. CAST IRON SHALL HAVE A TENSILE STRENGTH OF 38,000 PSI.
2. FRAME SHALL BE SET TO FINISH GRADE
3. SOUTH BAY FOUNDRY FRAME AND LID NO. 624/106 OR APPROVED EQUAL FOR SANITARY SEWER.
4. SOUTH BAY FOUNDRY FRAME AND LID NO. 624 OR APPROVED EQUAL FOR STORM DRAIN.
5. WEIGHT OF LID SHALL BE 100 POUNDS MINIMUM.

MANHOLE FRAME AND COVER

CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. S-5 — COUNCIL APPROVAL DEC, 2015



NOTES:
1. ALL BOX COVERS SHALL BE SET TO GRADE AND SHALL NOT BE SITUATED IN DRIVEWAYS.
2. METER STOP SHALL VARY BETWEEN 6" AND 10" FROM BOTTOM OF LID.
3. POLYETHYLENE PLASTIC OR PLOYMER CONCRETE VALVE BOX AND LID SHALL BE USED.
4. A "W", 3" HIGH, SHALL BE STAMPED OR CHISELED ON THE CURB FACE OVER SERVICE LINES.
5. PLACE A #12 TRACER WIRE IN THE SERVICE TRENCH TO MAKE CONDUCTIVE CONTACT WITH THE CORPORATION AND CURB (METER) STOP.

3/4" OR 1" PLASTIC WATER SERVICE CONNECTION

CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. W-9 — COUNCIL APPROVAL DEC, 2015

1. INSTALL 6" BY 6" BY 36" MIN. CONCRETE WHEEL STOPS WITH (2) #6x18" REBAR WHERE NECESSARY TO PREVENT PARKED CARS FROM ENCROACHING OVER SIDEWALKS, ADJOINING PROPERTIES, CITY RIGHT-OF-WAY, LANDSCAPING, OR OBSTRUCTIONS. WHEEL STOPS ARE NOT NEEDED WHERE THE SIDEWALK IS BEHIND VERTICAL CURB AND SIX FEET OR MORE IN WIDTH.
2. PARKING LOT DESIGN AND LAYOUT SHALL COMPLY WITH THE TURLOCK ZONING REGULATIONS, CONTACT THE DEVELOPMENT SERVICES DEPARTMENT, PLANNING DIVISION.
3. COMPACT STALL SPACES SHALL BE 8'x16' AND MARKED "COMPACT." PLANNING DIVISION SHALL DETERMINE MAXIMUM NUMBER OF COMPACT SPACES ALLOWED.
4. DRIVE AISLE WIDTH FOR DESIGNATED FIRE LANES SHALL BE 20 FEET MIN., AND AS DICTATED BY THE CURRENT EDITION OF THE CALIFORNIA FIRE CODE.
5. ACCESSIBLE PARKING STALLS, PAVEMENT MARKINGS AND SIGNS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
6. ONE IN SIX ACCESSIBLE PARKING STALLS SHALL BE DESIGNATED "VAN ACCESSIBLE" AND SHALL BE SERVED WITH AN 8 FOOT WIDE LOADING AREA.
7. PAVEMENT STRIPING AND MARKINGS IN THE CITY OF TURLOCK RIGHT-OF-WAY SHALL BE THERMOPLASTIC IN ACCORDANCE WITH SECTION 84 OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS.

PARKING STALL LAYOUT NOTES

CITY OF TURLOCK — DRAWN BY: JSH — CHECK BY: NBB — SCALE: NONE — APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694 — DRAWING NO. ST-18 — COUNCIL APPROVAL DEC, 2015

NO.	DATE	REVISION

GENERAL NOTES & CITY STANDARD DETAILS

CITY OF TURLOCK

CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION
BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS
LYING IN THE SOUTHWEST QUARTER OF SECTION 14, T.5 S., R.10 E., M.D.B.& M.
CITY OF TURLOCK, COUNTY OF STANISLAUS, STATE OF CALIFORNIA

DF ENGINEERING, INC.
CIVIL ENGINEERING AND SURVEYING
3421 TULLY ROAD · SUITE J · MODESTO, CA 95350
TELEPHONE (209) 529-7450 · FAX (209) 529-0457
RCE No. 53311 — Aug. 3, 2016 — DATE

R:\ACTIVE PROJ\2015\1522\Dwg\Imp\1522Base.dwg, C2 General Notes & City Standard Details, Aug. 3, 2016 3:55 PM, Kevin

REGISTERED PROFESSIONAL ENGINEER — DAVID J. HOBERG — No. 53311 — CIVIL — STATE OF CALIFORNIA

JOB#	1522
FB NO.	262
FILE	B39-20

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NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.

MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL G. PITCOCK — No. 52694 — Exp. 12-31-16 — CIVIL — STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/3/16

CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

GENERAL NOTES & CITY STANDARD DETAILS

CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ¼" ½" ¾" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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REV. BY:	---
CH. BY:	DJH
DATE:	Aug., 2016
SCALE:	NONE
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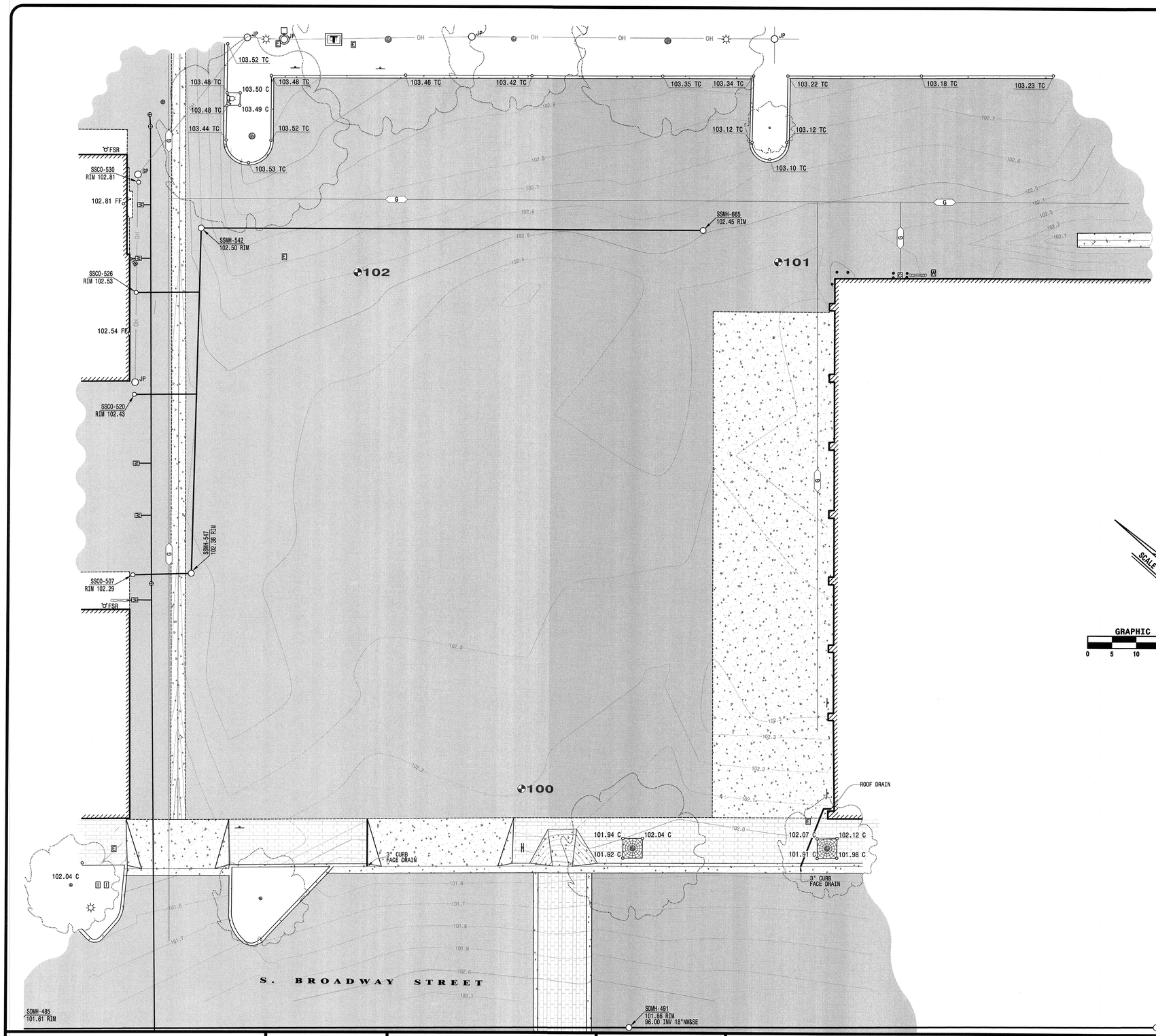
SHEET C2 OF 9



NOTES:

1) VERTICAL BENCHMARK DATUM (NAVD88) AS GIVEN BY TURLOCK CITY SURVEYOR:

   CITY OF TURLOCK BENCHMARK XXX-XX, (DF POINT #100, SEE TABLE);
   FOUND CONTROL SET BY CITY.
   ELEV.= XX.XX (NAVD88)

   CITY OF TURLOCK BENCHMARK XXXXX (DF POINT #101, SEE TABLE);
   FOUND CONTROL SET BY CITY.
   ELEV.= XX.XX (NAVD88)

   CITY OF TURLOCK BENCHMARK XXXXX (DF POINT #102, SEE TABLE);
   FOUND CONTROL SET BY CITY.
   ELEV.= XX.XX (NAVD88)

2) HORIZONTAL DATUM FROM CITY OF TURLOCK G.P.S. CONTROL NETWORK SURVEY FILED IN BOOK 20 OF SURVEYS AT PAGE 56, STANISLAUS COUNTY RECORDS. SAID SURVEY IS BASED ON THE 1992 ADJUSTMENT OF THE NORTH AMERICAN DATUM OF 1983 AS SHOWN ON THE FACE OF SAID SURVEY. THE EPOCH DATE AS GIVEN BY A SURVEYOR FROM THE CITY IS 1991.35, CCS83.

3) ALL UTILITY INFORMATION SHOWN ON THIS PLAN IS BASED ON SURFACE EVIDENCE LOCATED IN THE FIELD. LOCATIONS SHOWN ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN ON THIS PLAN. BEFORE PLANTING TREES, TRENCHING, DIGGING FENCE POST HOLES, BLASTING, GRADING, EXCAVATING, DRILLING, PIPE-PUSHING, OR ANY OTHER GROUND-DISTURBING OPERATIONS, CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT 811, FOR UNDERGROUND CLEARANCE AND MARKING OF FACILITIES.

ABBREVIATIONS:

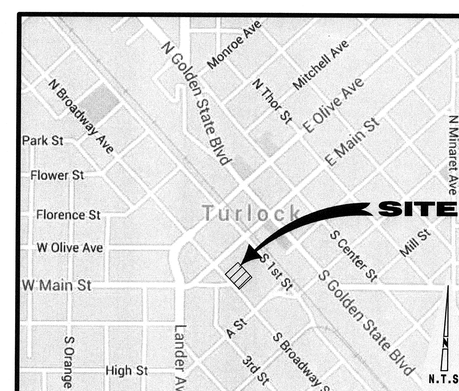
Ø	DIAMETER
C	CONCRETE
EP	EDGE OF PAVEMENT
FF	FINISH FLOOR
FL	FLOWLINE
FSR	FIRE SERVICE RISER
HW	HANDWELL
LI	LIP
LP	LOW POINT
MH	MANHOLE
P	PAVEMENT
PE	PLANTING EASEMENT
PUE	PUBLIC UTILITY EASEMENT
R	METAL RAMP GRADE
RW	ROCKWELL
SDCO	STORM DRAIN CLEAN-OUT
SSCO	SANITARY SEWER CLEAN-OUT
TC	TOP OF CURB

LEGEND:

- CONCRETE
- ASPHALT PAVEMENT
- BRICK SIDEWALK
- BUILDING LINE
- BUILDING OVERHANG
- ELECTRICAL BOX
- GAS METER
- LANDSCAPE IRRIGATION BOX
- WATER BOX
- FIRE HYDRANT
- FSR FIRE RISER
- WATER VALVE
- HB HOSE BIB
- BACK FLOW PREVENTER
- OH OVERHEAD UTILITY
- JP JOINT POLE
- SP SERVICE POLE
- MANHOLE
- CLEANOUT
- ELECTROLIER
- LIGHT
- SIGN
- BOLLARD
- CURB AND GUTTER
- DRIVEWAY
- CURB RAMP
- ##" SD STORM DRAIN LINE
- ##" SS SANITARY SEWER LINE
- ##" W WATER LINE
- WALL
- EDGE OF PAVEMENT
- TREE
- o XX.X GROUND ELEVATION
- 100 CONTROL POINT, SEE TABLE

SCALE 1" = 10'

GRAPHIC SCALE
0 5 10 20 30



VICINITY MAP

REVISION	DATE	NO.

EXISTING TOPOGRAPHY
CITY OF TURLOCK
CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION

BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS LYING IN THE SOUTHWEST QUARTER OF SECTION 14, T.5 S., R.10 E., M.D.B.& M. CITY OF TURLOCK, COUNTY OF STANISLAUS, STATE OF CALIFORNIA

DF ENGINEERING, INC.
CIVIL ENGINEERING AND SURVEYING
3421 TULLY ROAD · SUITE J · MODESTO, CA 95350
TELEPHONE (209) 529-7450 · FAX (209) 529-0457
LS No. 8078 Scott Thomas DeLaMare Aug. 3, 2016
DATE

LICENSED LAND SURVEYOR SCOTT THOMAS DELAMARE No. 8078 STATE OF CALIFORNIA

JOB#	1522
FB NO.	262
FILE	B39-20

SHEET C3 OF 9

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MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL G. PITCOCK No. 52694 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/3/16

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

EXISTING TOPOGRAPHY
CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ¾" 1"
½"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	---
REV. BY:	---
CH. BY:	---
DATE:	Aug., 2016
SCALE:	SHOWN
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DEMOLITION NOTES:

A. ALL DEMOLITION TO BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH ON THIS PLAN.

B. SITE CLEARING SHALL INCLUDE, BUT NOT BE LIMITED TO, THE REMOVAL OF VEGETATION, IMPROVEMENTS OR OBSTRUCTIONS INTERFERING WITH THE INSTALLATION OF NEW IMPROVEMENTS FOR THIS PROJECT.

C. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600 FOR VERIFICATION OF ALL UNDERGROUND FACILITIES PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES.

D. TOPSOIL: STRIP TOPSOIL TO WHATEVER DEPTHS ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER OBJECTION MATERIAL. REMOVE HEAVY GROWTHS OF GRASS FROM AREAS BEFORE STRIPPING.

E. CLEARING AND GRUBBING: CLEAR SITE OF TREES, SHRUBS AND OTHER VEGETATION, EXCEPT FOR THOSE INDICATED TO BE LEFT STANDING. COMPLETELY REMOVE STUMPS, ROOTS, AND OTHER DEBRIS PROTRUDING THROUGHOUT GROUND SURFACE.

F. REMOVAL OF IMPROVEMENTS: REMOVE ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS NECESSARY TO PERMIT CONSTRUCTION AND OTHER WORK AS INDICATED.

G. BURNING: BURNING IS NOT PERMITTED ON OWNER'S PROPERTY. REMOVE ALL WASTE MATERIALS AND UNSUITABLE AND EXCESS SOIL FROM OWNER'S PROPERTY AND DISPOSE OF OFF SITE.

H. RECORDS OF ON-SITE CONSTRUCTION HAVE BEEN OBTAINED AND THE RESULTS OF THESE SEARCHES ARE SHOWN ON THESE PLANS. THE LOCATIONS SHOWN ARE NOT GUARANTEED FOR ACCURACY, NOR TOTALITY OF ALL UTILITIES WITHIN THE AREA OF CONSTRUCTION.

I. THE CROSS HATCHED AREA SHOWN ON THIS PLAN INDICATES THE APPROXIMATE AREA TO BE CLEARED IN PREPARATION FOR NEW CONSTRUCTION RELATED TO THIS PROJECT.

LEGEND: (IN ADDITION TO LEGEND SHOWN ON SHEET C1)

- APPROXIMATE LIMIT OF OFF-SITE CONSTRUCTION
- AREA TO BE CLEARED FOR NEW CONSTRUCTION
- (1) KEY NOTE SYMBOL. REFER TO DEMOLITION NOTES SHOWN AT BOTTOM OF THIS SHEET

DEMOLITION KEYNOTES:

1. SAWCUT ALONG EXISTING ASPHALT OR CONCRETE.
2. REMOVE EXISTING ASPHALT.
3. REMOVE EXISTING CONCRETE.
4. PROTECT EXISTING FACILITY/UTILITY.
5. REMOVE EXISTING ADA PARKING SIGN; SALVAGE FOR REINSTALLATION.
6. REMOVE EXISTING PAVERS; SALVAGE FOR REINSTALLATION.

SCALE 1"=10'

GRAPHIC SCALE
0 5 10 20 30

NO.	DATE	REVISION

DEMOLITION PLAN

CITY OF TURLOCK

CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION
BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS
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CITY OF TURLOCK, COUNTY OF STANISLAUS, STATE OF CALIFORNIA

DF ENGINEERING, INC.
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3421 TULLY ROAD · SUITE J · MODESTO, CA 95350
TELEPHONE (209) 529-7450 · FAX (209) 529-0457
RCE No. 53311
Aug. 3, 2016
DATE

REGISTERED PROFESSIONAL ENGINEER DAVID J. HOBERG No. 53311 CIVIL STATE OF CALIFORNIA

JOB#	1522
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MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL G. PITCOCK No. 52694 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/3/16

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

DEMOLITION PLAN

CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ¾" 1"
½"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	KJE
REV. BY:	---
CH. BY:	DJH
DATE:	Aug., 2016
SCALE:	SHOWN
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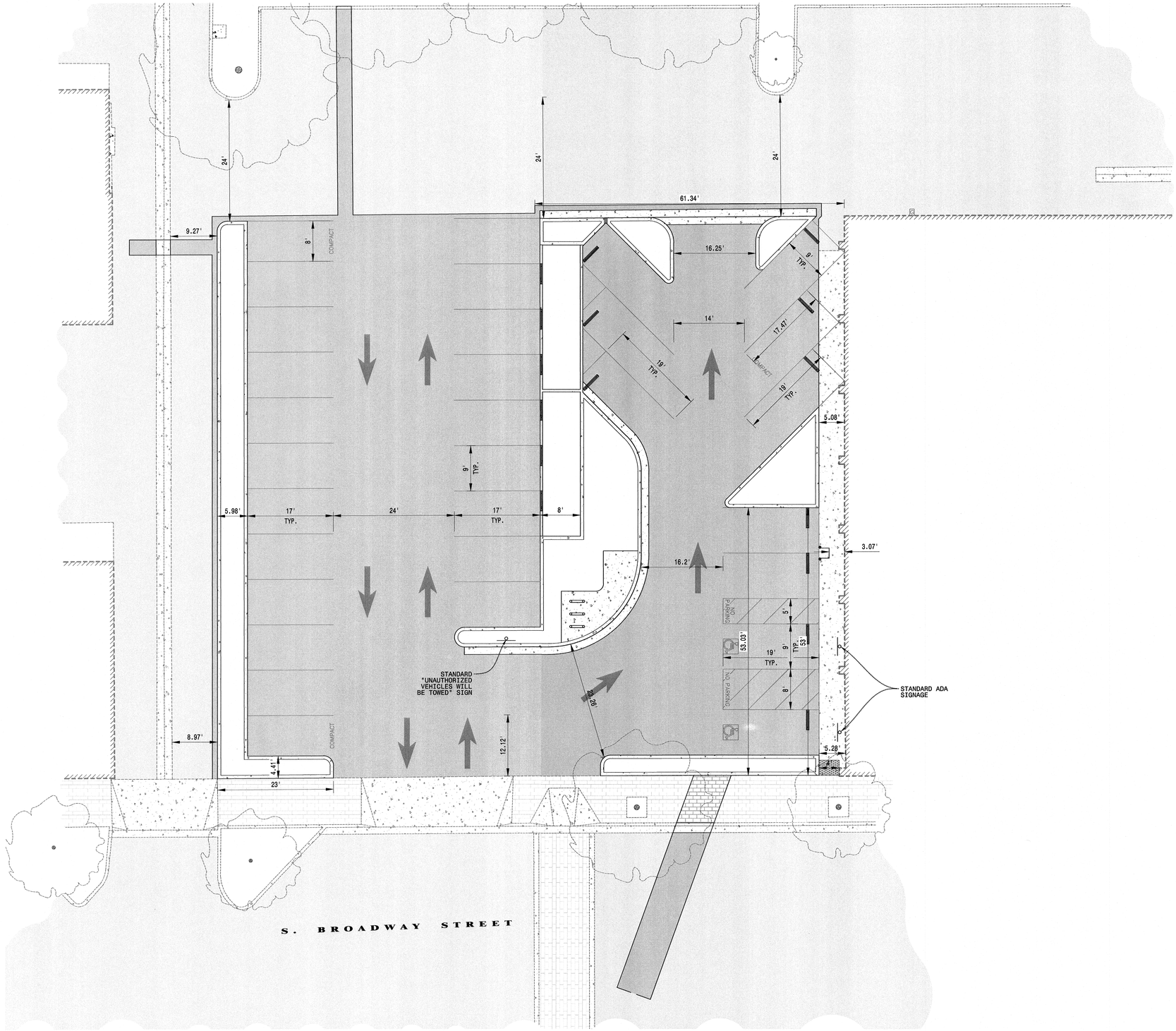
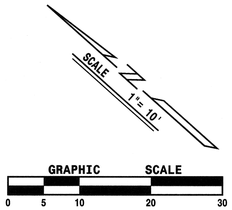
SHEET C4 OF 9

NOTES:

1. SEE SHEET L1 FOR ADDITIONAL SITE FEATURES.
2. SEE SHEET C9 FOR SIGNAGE, STRIPING AND MARKING DETAILS.





GRAPHIC SCALE

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NO.	DATE	REVISION

HORIZONTAL CONTROL & SITE PLAN

CITY OF TURLOCK

CAPITOL IMPROVEMENT PROJECT #15-57

PARKING LOT RECONSTRUCTION

BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS
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RCE No. 53311

Aug. 3, 2016
DATE

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REGISTERED PROFESSIONAL ENGINEER
DAVID J. HODGENS
No. 53311
CIVIL
STATE OF CALIFORNIA

JOB#	1522
FB NO.	262
FILE	B39-20

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DEVELOPMENT SERVICES
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(209) 668-5520

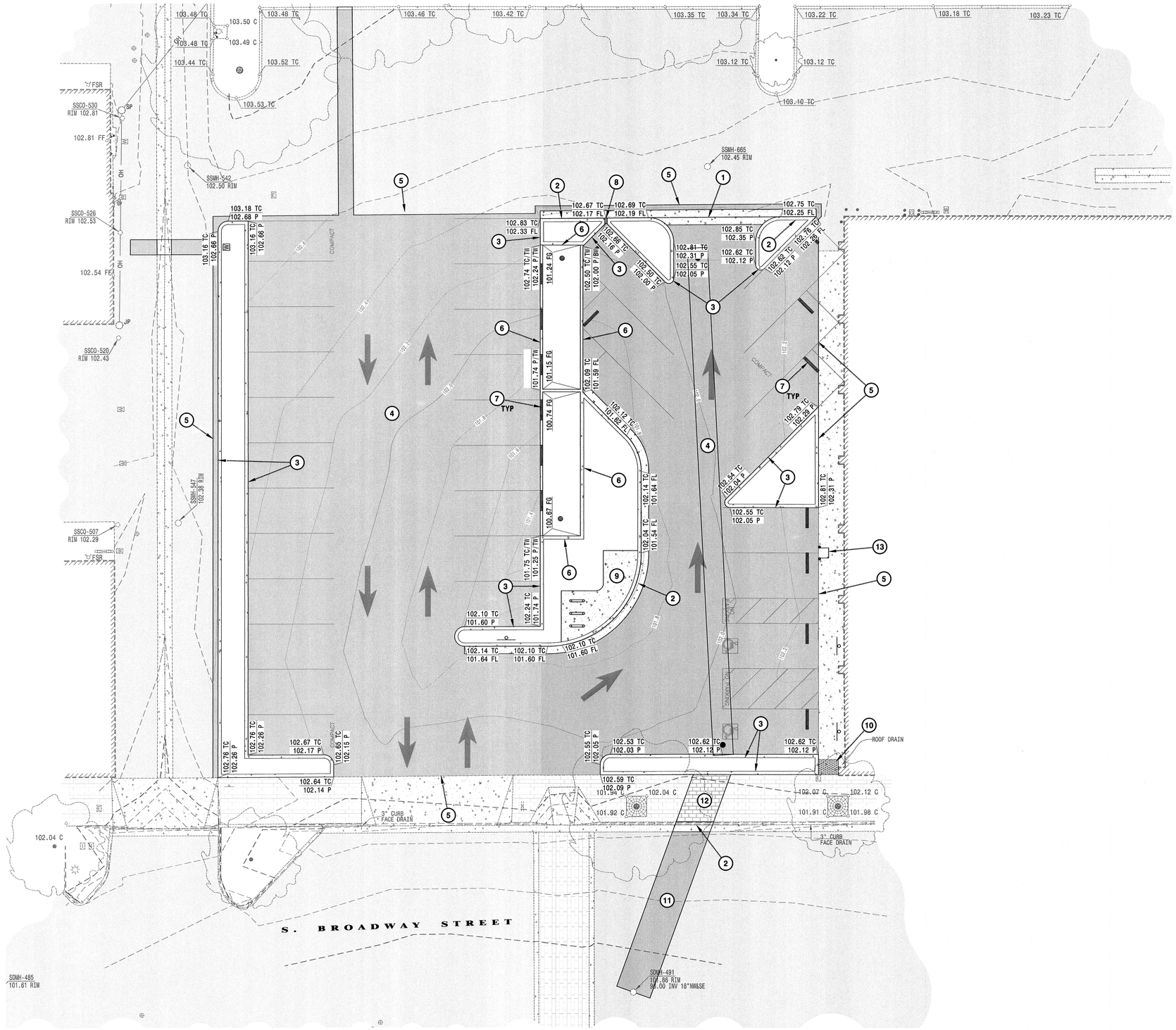
HORIZONTAL CONTROL & SITE PLAN

CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ¾" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	KJE
REV. BY:	---
CH. BY:	DJH
DATE:	Aug., 2016
SCALE:	SHOWN
1522Base.dwg	

SHEET C5 OF 9



ASPHALT CONCRETE AND CONCRETE PAVING NOTES:

A. THE ASPHALT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 39 OF THE STANDARD SPECIFICATIONS (STATE OF CALIFORNIA) "ASPHALT CONCRETE". IT SHALL BE TYPE B, 1/2 INCH MAXIMUM AGGREGATE, MEDIUM GRADING. THE PAVING ASPHALT TO BE MIXED WITH AGGREGATE SHALL BE STEAM-REFINED ASPHALT CONFORMING TO THE PROVISIONS IN SECTION 92, "ASPHALT", OF THE STANDARD SPECIFICATIONS (STATE OF CALIFORNIA).

B. AGGREGATE BASE SHALL BE CLASS II AND SHALL CONFORM TO THE PROVISIONS IN SECTION 26 "AGGREGATE BASE", OF THE STANDARD SPECIFICATIONS (STATE OF CALIFORNIA). AGGREGATE BASE MAY INCLUDE MATERIAL PROCESSED FROM RECLAIMED ASPHALT PAVEMENT MATERIALS GENERATED IN THE ONSITE GRINDING-REMOVAL PROCESS OF THE EXISTING PAVEMENTS. SEE DEMOLITION PLAN NOTES.

C. ANY EXISTING UTILITY STRUCTURES EXISTING IN THE AREA OF NEW PAVING SHALL BE ADJUSTED TO NEW GRADES AS CONSTRUCTED.

D. ASPHALTIC EMULSION PAINT BINDER: A PAINT BINDER OF ASPHALTIC EMULSION SHALL BE APPLIED BY THE CONTRACTOR TO EXISTING AC PAVEMENT AND BETWEEN INTERMEDIATE LAYERS OF NEW CONSTRUCTION PORTION OF THIS PROJECT IN CONFORMANCE WITH SECTION 39-4.02, "PRIME COAT AND PAINT BINDER", AND 391.01, "ASPHALT", OF THE STANDARD SPECIFICATIONS (STATE OF CALIFORNIA).

D.A. ASPHALTIC EMULSION PAINT BINDER SHALL CONFORM TO THE PROVISIONS IF SECTION 94, "ASPHALTIC EMULSIONS", OF SAID STATE STANDARDS.

D.B. THE AREA TO WHICH PAINT BINDER HAS BEEN APPLIED SHALL BE CLOSED TO PUBLIC TRAFFIC. CARE SHALL BE TAKEN TO AVOID TRACKING BINDER MATERIAL ONTO EXISTING PAVEMENT SURFACES BEYOND THE LIMITS OF CONSTRUCTION.

E. IN ASPHALT CONCRETE AND CONCRETE PAVEMENT AREA, "TREFLAN" OR AN APPROVED EQUAL SOIL STERILANT SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BETWEEN ASPHALT CONCRETE AND/OR COMPACTED SUB-BASE. THE PRODUCT SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS BY APPROPRIATE LICENSED PERSONS AND CARE SHALL BE TAKEN TO AVOID DISTURBING THE SUBGRADE SURFACE AFTER THE PRODUCT HAS BEEN APPLIED.

F. PAVING SECTION FOR PARKING LOT AND DRIVEWAYS SHALL BE:
0.20' AC / 0.35' AB (CL II).

G. A SOILS INVESTIGATION AND TESTING WAS PERFORMED BY KRAZAN AND ASSOCIATES, INC., DATED DECEMBER 17, 2015, PROJECT NO. 072-15077 THE CONTRACTOR SHALL COMPLY WITH ALL RECOMMENDATIONS STATED IN THESE DOCUMENTS, AND SHOULD THEY CONFLICT WITH ANY NOTES ON THESE PLANS, THE SOILS INVESTIGATION RECOMMENDATIONS SHALL TAKE PRIORITY.

GRADING NOTES:

A. SITE PREPARATION SHALL INCLUDE STRIPPING OF VEGETATION AND ANY OTHER DELETERIOUS MATERIALS ENCOUNTERED AND REMOVAL FROM SITE.

B. ENGINEERED BACKFILL SHALL BE PLACED IN THIN HORIZONTAL LAYERS AT A MAXIMUM OF 8 INCHES IN LOOSE THICKNESS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY.

C. IN AREAS TO RECEIVE CONCRETE CURBS AND PAVING, THE SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 8 INCHES AND RECOMPACTED TO 95 PERCENT OF MAXIMUM DENSITY. ANY LOOSE OR SOFT POCKETS ENCOUNTERED SHALL BE OVER-EXCAVATED AND RECOMPACTED.

D. THE INTENT OF THIS PLAN IS TO AID THE CONTRACTOR IN DETERMINING THE QUANTITIES OF DIRT TO BE MOVED AND TO ESTABLISH DESIGN GRADES.

E. ANY CHANGES IN DESIGNED GRADES SHOWN MUST BE APPROVED BY DF ENGINEERING, INC. THERE SHALL BE NO EXTRA COST DUE TO THE IMPORT OR EXPORT OF MATERIAL, SHOULD IT BE NECESSARY TO ACHIEVE GRADES SHOWN ON THIS PLAN. JOINTS SHALL BE PLACED TO MATCH EXISTING JOINTS, UNLESS OTHERWISE SHOWN ON THESE PLANS.

CONCRETE NOTES:

A. ALL CONCRETE WORK SHALL CONFORM TO SECTION 73 OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND CITY OF TURLOCK STANDARDS.

B. ALL CONCRETE TO HAVE A MEDIUM BROOM FINISH.

C. EXPANSION JOINTS AND WEAKENED PLANE JOINTS SHALL BE PLACED TO MATCH EXISTING JOINTS, UNLESS OTHERWISE SHOWN ON THESE PLANS.

D. CONCRETE SIDEWALK, CURB & GUTTER, AREA SLAB SECTIONS, AND CONCRETE MOW STRIP SHALL BE 6.0 SACK PER CUBIC YARD MIX (MINIMUM) WITH 3,000 PSI (MINIMUM) 28 DAY COMPRESSIVE STRENTH. SEE DETAILS FOR THICKNESS REQUIREMENTS.

GRADING AND DRAINAGE KEYNOTES:

1. CONSTRUCT 3' WIDE VALLEY GUTTER PER CITY OF TURLOCK STD. DWG. NO. C-1 ON SHEET C2.
2. CONSTRUCT CURB & GUTTER PER CITY OF TURLOCK STD. DWG. NO. C-1 ON SHEET C2.
3. CONSTRUCT CURB ONLY PER CITY OF TURLOCK STD. DWG. NO. C-1 ON SHEET C2.
4. PROVIDE NEW AC PAVING SECTION (0.20' AC/0.35 AB).
5. MATCH NEW SURFACE WITH SMOOTH TRANSITION.
6. 6" WIDE WALL OF BIO-FILTRATION PLANTER STRUCTURE; SEE DETAIL A ON SHEET L1. TOP OF WALL TO BE FLUSH WITH PAVEMENT WHERE ADJACENT TO PARKING STALLS AND 6" ABOVE PAVEMENT WHERE MATCHING PLANTERS.
7. CONCRETE WHEEL STOP PER DETAIL 4 ON SHEET C9.
8. 6" CURB OPENING PER DETAIL 2 ON SHEET C9.
9. 3.5' CONCRETE FLAT WORK PER CITY OF TURLOCK STD. DWG. NOs. C-2 & C-3 ON SHEET C2.
10. DETECTABLE WARNING SURFACE PER CITY OF TURLOCK STD. DWG. NO. C-15 ON SHEET C2.
11. REPAIR STREET SURFACE PER CITY OF TURLOCK STD. DWG. NO. T-1 ON SHEET C2.
12. REPLACE EXISTING PAVERS IN KIND.
13. LOCATION OF CHARGING STATION, SEE ELECTRICAL PLANS.

SCALE 1" = 10'

GRAPHIC SCALE
0 5 10 20 30

NO.	DATE	REVISION
1		

GRADING AND DRAINAGE PLAN
CITY OF TURLOCK
CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION
BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS
LYING IN THE SOUTHWEST QUARTER OF SECTION 14, T.5 S., R.10 E., M.D.B.& M.
CITY OF TURLOCK, COUNTY OF STANISLAUS, STATE OF CALIFORNIA

DF ENGINEERING, INC.
CIVIL ENGINEERING AND SURVEYING
3421 TULLY ROAD · SUITE J · MODESTO, CA 95350
TELEPHONE (209) 529-7450 · FAX (209) 529-0457
RCE No. 53311
Aug. 3, 2016
DATE

REGISTERED PROFESSIONAL ENGINEER DAVID J. HOBERG No. 53311 CIVIL STATE OF CALIFORNIA

JOB#	1522
FB NO.	262
FILE	B39-20

USA NORTH 811 Call 811 Before You Dig WWW.USANORTH811.ORG

NOTE:
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MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL G. PITCOCK No. 52694 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/3/16

CITY OF TURLOCK INC. 1908

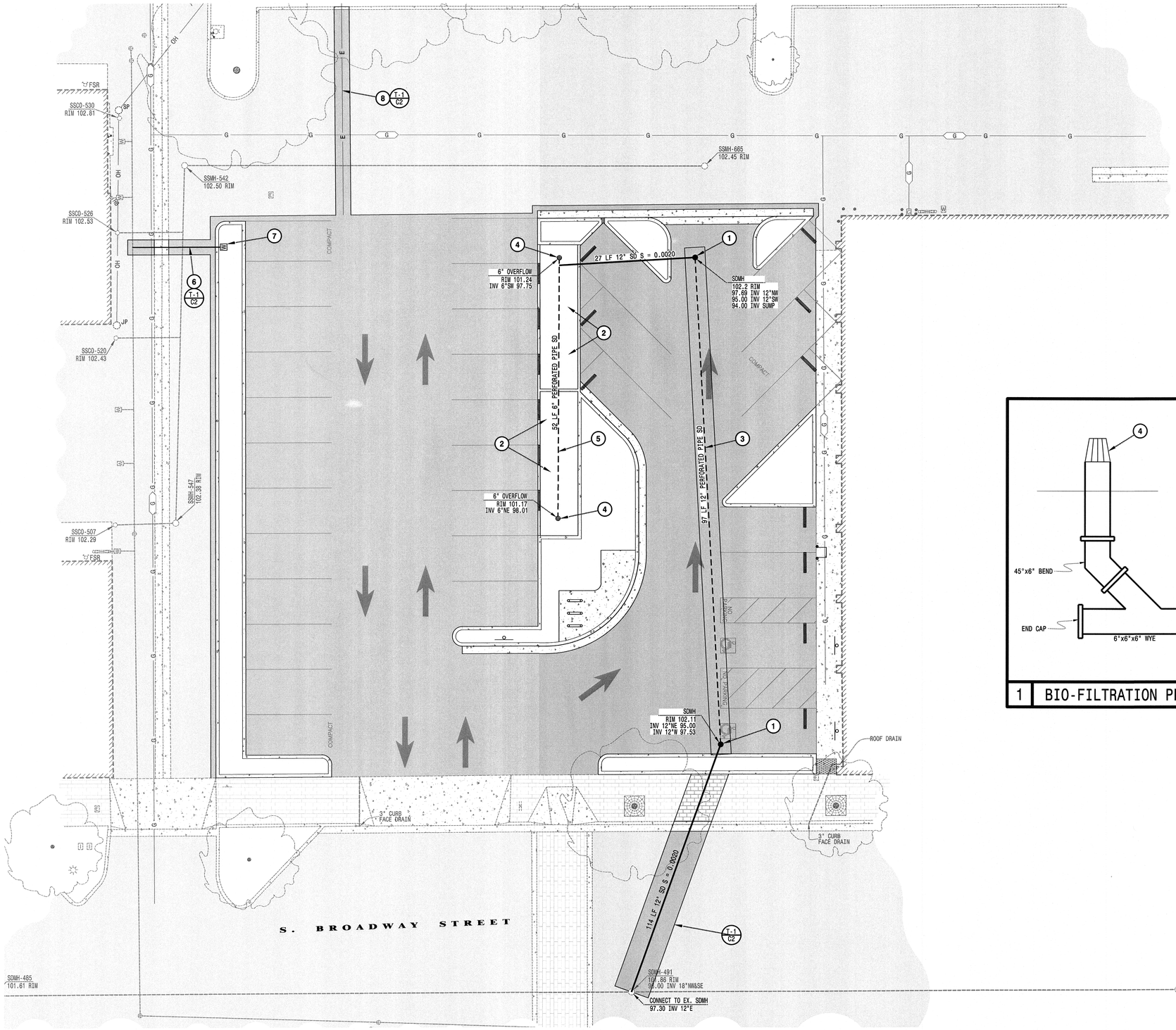
CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

GRADING AND DRAINAGE PLAN
CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ¾" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	KJE
REV. BY:	---
CH. BY:	DJH
DATE:	Aug., 2016
SCALE:	SHOWN
1522Base.dwg	

SHEET C6 OF 9



STORM DRAIN NOTES:

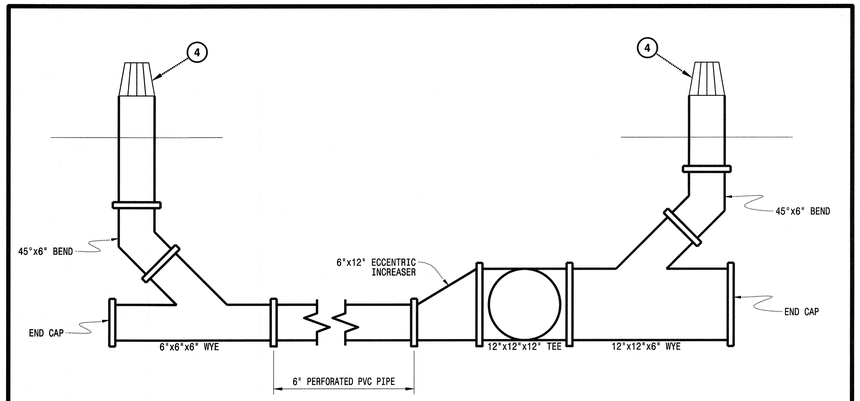
A. STORM DRAINAGE PIPE SHALL CONFORM TO THE FOLLIWING SPECIFICATIONS:

- POLYVINAL CHLORIDE (PVC) PIPE SHALL BE SDR-26, CONFORMING TO ASTM D-3034.
- DUCTILE IRON PIPE (DIP) SHALL BE PRESSURE CLASS 350 AND SHALL CONFORM TO ANSI/AWWA C151. DUCTILE IRON PIPE SHALL BE LINED WITH PROTECTO 401 CERAMIC EPOXY LINER OR EQUAL.

B. INSTALLATION SHALL CONFORM TO CITY OF TURLOCK STD. DWG. NOs. T-1 & T-2 ON SHEET C2, AS APPLICABLE.

STORM DRAIN KEYNOTES:

1. CITY OF TURLOCK STANDARD STORM DRAIN MANHOLE PER STD. DWG. NOs. S-3 & S-4 ON SHEET C2.
2. BIO-FILTRATION PLANTER, SEE DETAIL A ON SHEET L1.
3. STORM DRAIN TRENCH SYSTEM PER DETAIL 6 ON SHEET C9.
4. 6" OVERFLOW PIPE WITH NDS ATRIUM GRATE, SEE DETAIL A ON SHEET L1.
5. 6" BIO-FILTRATION PLANTER UNDERDRAIN, SEE DETAIL A ON SHEET L1 AND DETAIL 1 ON THIS SHEET.
6. NEW 1" DIAMETER WATER SERVICE FOR PER STD. DWG. NO. W-9 ON SHEET C2.
7. NEW METER BOX PER STD. DWG. NO. W-9 ON SHEET C2. SEE LANDSCAPE PLANS FOR BFP DETAIL AND CONTINUATION.
8. ELECTRICAL SERVICE CONDUIT, SEE ELECTRICAL PLANS.



1 BIO-FILTRATION PLANTER UNDERDRAIN PROFILE — NOT TO SCALE

SCALE 1"= 10'

GRAPHIC SCALE 0 5 10 20 30

NO.	DATE	REVISION

COMPOSITE UTILITY PLAN
CITY OF TURLOCK
CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION
BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS
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3421 TULLY ROAD · SUITE J · MODESTO, CA 95350
TELEPHONE (209) 529-7450 · FAX (209) 529-0457

COMPOSITE UTILITY PLAN — Aug. 3, 2016 — DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID J. HOBERG — No. 53311 — CIVIL — STATE OF CALIFORNIA

JOB#	1522
FB NO.	262
FILE	B39-20

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MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL G. PITCOCK — No. 52694 — Exp. 12-31-16 — CIVIL — STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/3/16

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

COMPOSITE UTILITY PLAN
CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ½" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	KJE
REV. BY:	---
CH. BY:	DJH
DATE:	Aug., 2016
SCALE:	SHOWN
1522Base.dwg	

SHEET C7 OF 9

EROSION CONTROL & POLLUTION PREVENTION NOTES:

1. DEVICES SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE PROJECT ENGINEER.

2. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE PROJECT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.

3. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE PROJECT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

5. ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON.

6. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

7. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY THROUGHOUT THE DURATION OF THE PROJECT.

8. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED TO THE EXTENT POSSIBLE.

9. CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE "CALIFORNIA STORMWATER QUALITY ASSOCIATION STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK PREPARED BY CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY STATE WATER RESOURCES CENTER BOARD.

10. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AS REQUIRED PRIOR TO ANTICIPATED STORMS, ON EACH WORKING DAY DURING THE RAINY SEASON, AND AFTER A STORM EVENT.

11. THIS SHEET IS PROVIDED AS PART OF THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTE THE FOLLOWING INFORMATION ON THE PLANS:
    a. PROPOSED CONCRETE AND MORTAR WASHOUT AREA.
    b. STABILIZED CONSTRUCTION EXITING PATH.
    c. PROPOSED CONSTRUCTION EQUIPMENT STORAGE AREAS, IF ANY.

12. A COPY OF THIS PLAN SHALL BE KEPT ON THE JOB-SITE FOR INSPECTION BY THE REGIONAL WATER QUALITY CONTROL BOARD, IF REQUIRED.

13. PROJECT SCHEDULE:
    START CONSTRUCTION ---------- JULY, 2016
    ANTICIPATED COMPLETION ------- NOVEMBER, 2016

14. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WAS NOT PREPARED FOR THIS PROJECT, DUE TO ITS SIZE. THE CONTRACTOR SHALL IMPLEMENT THE BEST MANAGEMENT PRACTICES (BMP'S), AND MONITORING RECORD KEEPING AS REQUIRED BY THIS PLAN SHEET.

15. REFER TO THE CALIFORNIA STORM WATER QUALITY ASSOCIATION "STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK" AND COMPLY WITH, BUT NOT LIMITED TO THE FOLLOWING, BEST MANAGEMENT PRACTICES:

EC-1	SCHEDULING
NS-1	WATER CONSERVATION PRACTICES
NS-3	PAVING AND GRINDING OPERATIONS
NS-8	VEHICLE AND EQUIPMENT CLEANING
NS-9	VEHICLE AND EQUIPMENT FUELING
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE
NS-12	CONCRETE CURING
NS-13	CONCRETE FINISHING
SE-5	FIBER ROLLS
SE-7	STREET SWEEPING AND VACUUMING
SE-9	STRAW BALE BARRIER
SE-10	STORM DRAIN INLET PROTECTION
TC-1	STABILIZED CONSTRUCTION ENTRANCE/EXIT
WE-1	WIND EROSION CONTROL
WM-1	MATERIAL DELIVERY AND STORAGE
WM-2	MATERIAL USE
WM-3	STOCKPILE MANAGEMENT
WM-4	SPILL PREVENTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT

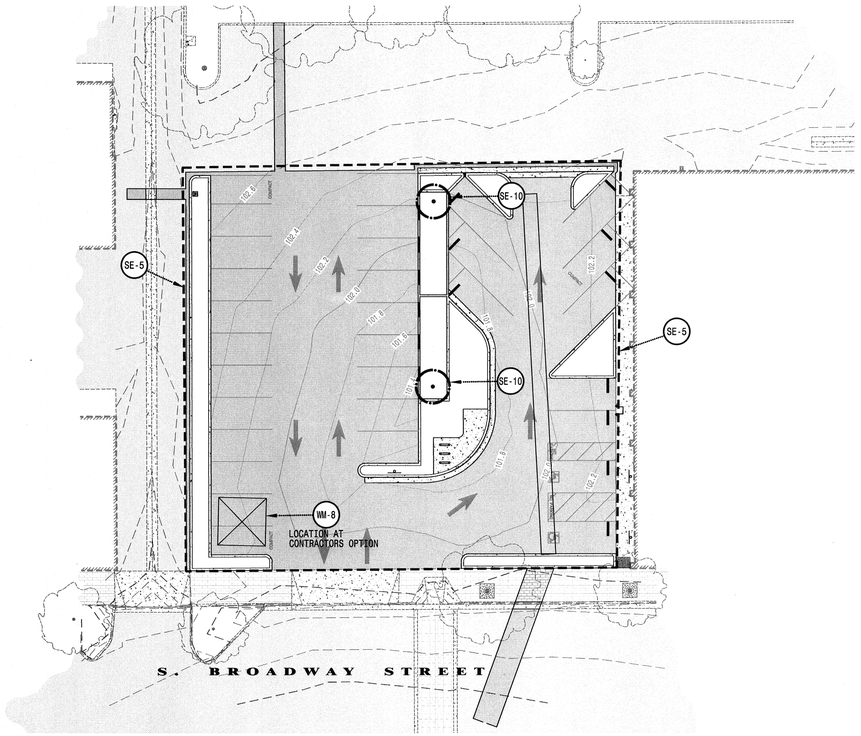
16. THE EROSION CONTROL AND POLLUTION PREVENTION BMP'S LISTED ABOVE SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR UNTIL THE PROJECT IS COMPLETE.

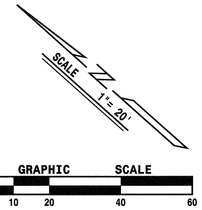
17. THIS PLAN MAY NOT COVER ALL SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER.

18. IF A SPILL, LEAK, BREACH OR MALFUNCTION OF A BMP OCCURS THAT MAY HAVE RELEASED A NON-VISIBLE POLLUTANT, THE CONTRACTOR SHALL CLEANUP THE INCIDENT AND MONITOR BEFORE AND DURING THE NEXT STORM. THE CONTRACTOR SHALL DOCUMENT THESE ACTIONS, AND MAKE THE REQUIRED NOTIFICATIONS TO THE OWNER, AND THE BUILDING PERMIT ENTITY.

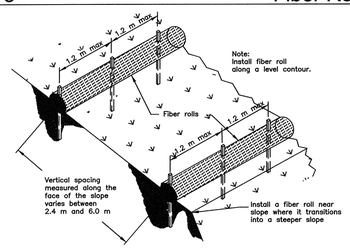
NOTE:

DUE TO THE SIZE AND NATURE OF THIS PROJECT, IT IS NOT PRACTICAL TO INSTALL A STABILIZED CONSTRUCTION ENTRANCE/EXIT (DETAIL TC-1).
IT SHALL BE THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR TO PREVENT TRACKING OF DIRT ONTO ADJACENT ROADWAYS AND PREVENT SOIL EROSION OUTSIDE OF THE CONSTRUCTION LIMITS SHOWN ON THIS PLAN.

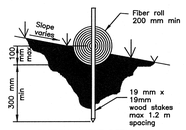




SE-5 Fiber Rolls

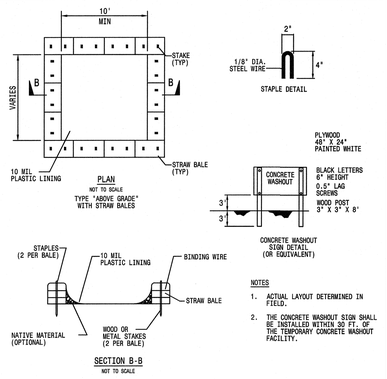


TYPICAL FIBER ROLL INSTALLATION
N.T.S.



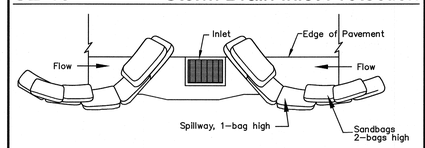
ENTRENCHMENT DETAIL
N.T.S.

WM-8 CONCRETE WASTE MANAGEMENT

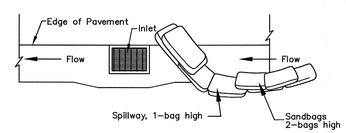


NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

SE-10 Storm Drain Inlet Protection



TYPICAL PROTECTION FOR INLET ON SUMP



TYPICAL PROTECTION FOR INLET ON GRADE

NOTES:
1. Intended for short-term use.
2. Use to inhibit non-storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed
5. Not applicable in areas with high silts and clays without filter fabric.

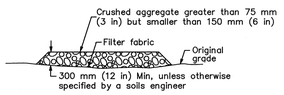
SE-10 Storm Drain Inlet Protection

- ***DI Protection Type 3*** **- Gravel Bag** - The gravel bag barrier (Type 3) is shown in the figures. Flow from a severe storm should not overtop the curb. In areas of high clay and silts, use filter fabric and gravel as additional filter media. Construct gravel bags in accordance with SE-6, Gravel Bag Berm. Gravel bags should be used due to their high permeability.

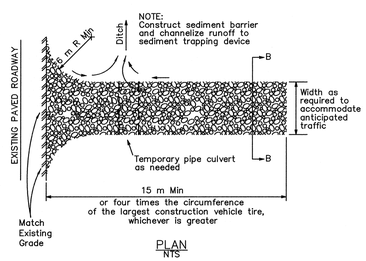
1. Use sand bag made of geotextile fabric (not burlap) and fill with 0.75 in. rock or 0.25 in. pea gravel.
2. Construct on gently sloping street.
3. Leave room upstream of barrier for water to pond and sediment to settle.
4. Place several layers of sand bags - overlapping the bags and packing them tightly together.
5. Leave gap of one bag on the top row to serve as a spillway. Flow from a severe storm (e.g., 10 year storm) should not overtop the curb.

Inspection and Maintenance
- Inspect BMPs prior to forecast rain, daily during extended rain events, after rain events, weekly during the rainy season, and at two-week intervals during the non-rainy season.

Stabilized Construction Entrance/Exit TC-1



SECTION B-B
NTS



PLAN
NTS

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MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL G. PITCOCK No. 52694 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/3/16

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

EROSION CONTROL PLAN
CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ¾" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	KJE
REV. BY:	---
CH. BY:	DJH
DATE:	Aug., 2016
SCALE:	SHOWN
1522Base.dwg	

SHEET C8 OF 9

NO.	DATE	REVISION

EROSION CONTROL PLAN
CITY OF TURLOCK
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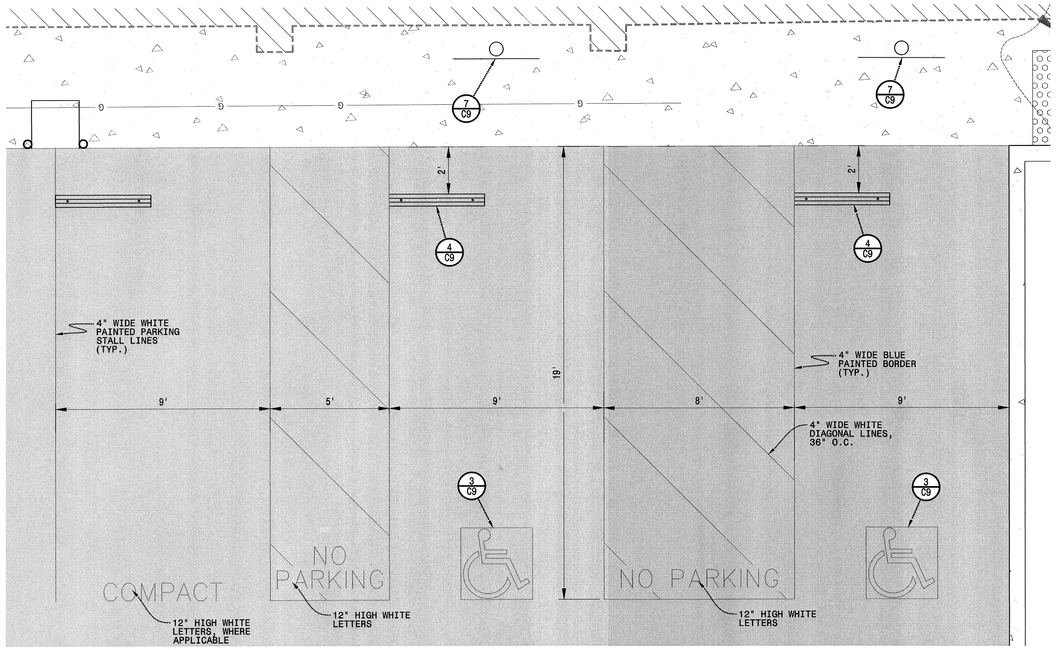
TELEPHONE (209) 529-7450 · FAX (209) 529-0457
Aug. 3, 2016 DATE
RCE No. 53311

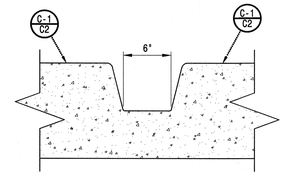
REGISTERED PROFESSIONAL ENGINEER DAVID J. RODZENKO No. 53311 CIVIL STATE OF CALIFORNIA

JOB#	1522
FB NO.	262
FILE	B39-20

NOTE:
ALL PAINT STRIPING AND SYMBOLS SHALL BE A TWO-COAT APPLICATION OF HIGHWAY WHITE PAINT OR BLUE (NO. 15090 IN FEDERAL STANDARD 5958), AS APPLICABLE. NO GLASS BEADING IS REQUIRED.

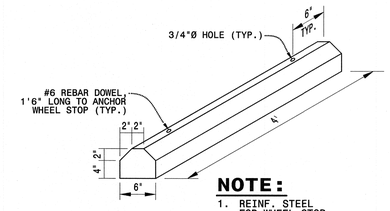


5 DISABLED AND PARKING LOT MARKING AND STRIPING — SCALE: 1" = 3'



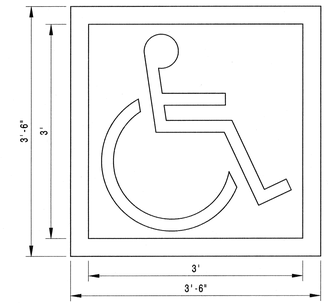
2 6" CURB OPENING — NOT TO SCALE

1 NOT USED — NOT TO SCALE



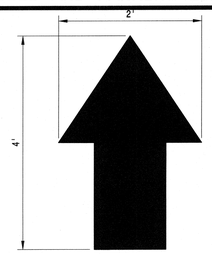
NOTE:
1. REINF. STEEL FOR WHEEL STOP 2-#4 REBAR, SPACED EQUALLY.

4 WHEEL STOP DETAIL — NOT TO SCALE



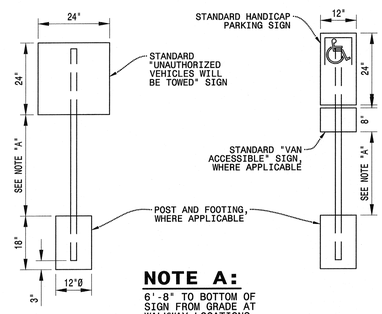
NOTES:
1. ALL SYMBOL STROKES TO BE 3" WIDE.
2. PROVIDE 2-COATS OF WHITE PAINT FOR FIGURE AND OUTLINE.
3. BACKGROUND COLOR TO BE 2-COATS BLUE (NO. 15090 IN FEDERAL STANDARD 5958).
4. LOCATE SYMBOL AT CENTER OF STALL WHERE SHOWN ON SITE PLAN.

3 ACCESSIBLE PARKING STALL SYMBOL — NOT TO SCALE



NOTE:
ALL PAINT STRIPING AND SYMBOLS SHALL BE A TWO-COAT APPLICATION OF HIGHWAY WHITE PAINT

8 DIRECTIONAL ARROW — NOT TO SCALE

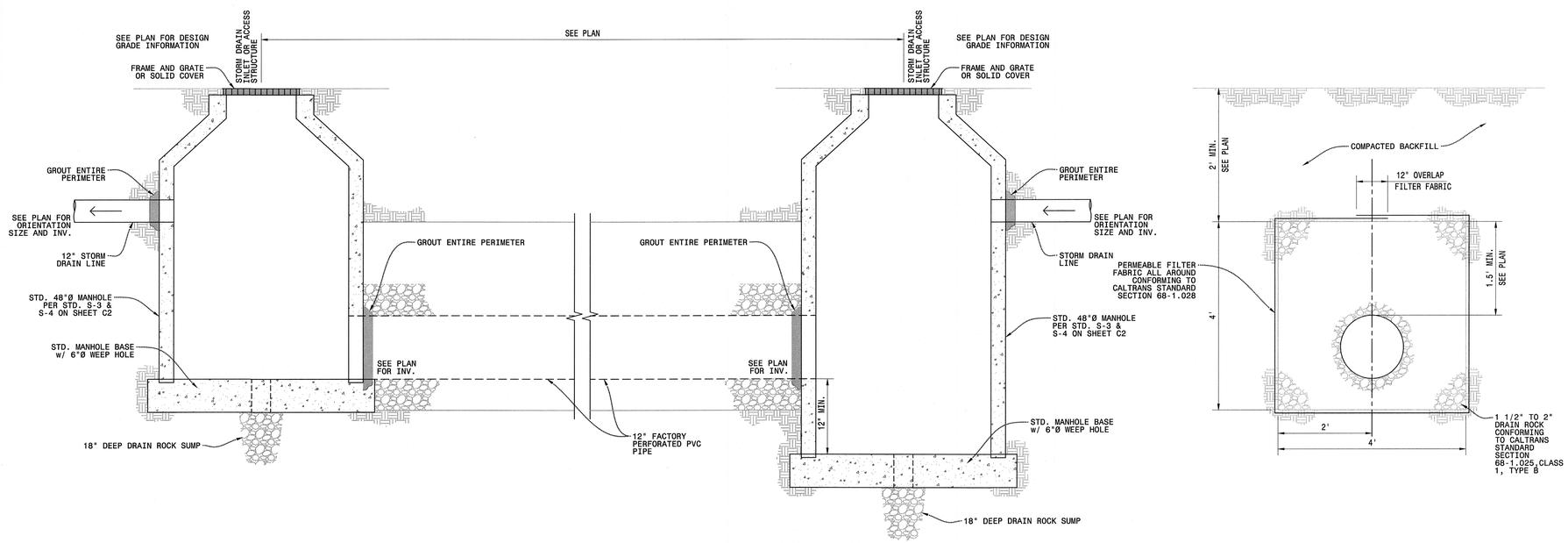


NOTE A:
6'-8" TO BOTTOM OF SIGN FROM GRADE AT WALKWAY LOCATIONS. 3'0" AT ALL NON "PATH OF TRAVEL" LOCATIONS (PLANTERS ETC.)

ENTRY SIGN
(AS SHOWN ON SITE PLAN)

STALL SIGN

7 ACCESSIBLE PARKING SIGNAGE — NOT TO SCALE



6 STORM TRENCH DRAIN SYSTEM — NOT TO SCALE

NO.	DATE	REVISION

SITE SPECIFIC DETAILS
CITY OF TURLOCK
CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION
BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS LYING IN THE SOUTHWEST QUARTER OF SECTION 14, T.5 S., R.10 E., M.D.B.& M. CITY OF TURLOCK, COUNTY OF STANISLAUS, STATE OF CALIFORNIA

DF ENGINEERING, INC.
CIVIL ENGINEERING AND SURVEYING
3421 TULLY ROAD · SUITE J · MODESTO, CA 95350
TELEPHONE (209) 529-7450 · FAX (209) 529-0457
RCE No. 53311

Aug. 3, 2016
DATE

REGISTERED PROFESSIONAL ENGINEER DAVID J. NORBERG No. 53311 CIVIL STATE OF CALIFORNIA

JOB#	1522
FB NO.	262
FILE	B39-20

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NOTE:
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MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL G. PITCOCK No. 52694 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/3/16

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

SITE SPECIFIC DETAILS
CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ½" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	KJE
REV. BY:	---
CH. BY:	DJH
DATE:	Aug., 2016
SCALE:	SHOWN
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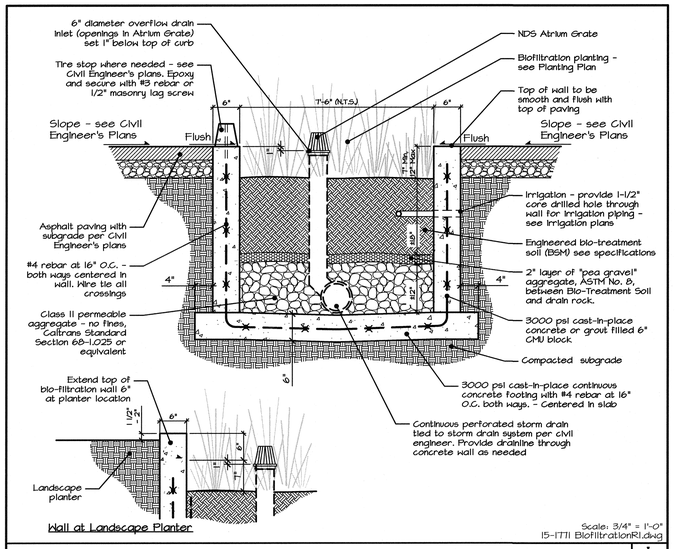
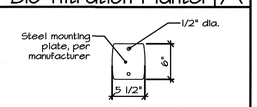
SHEET C9 OF 9



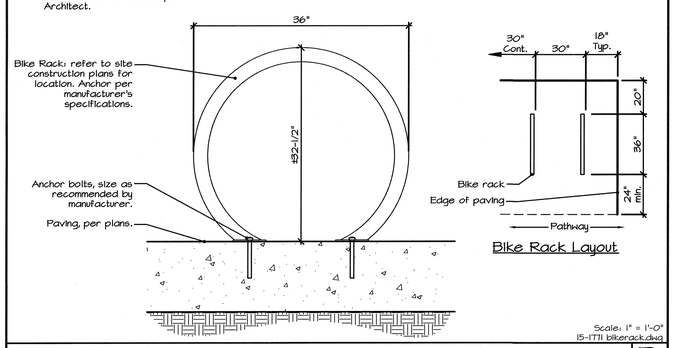
Bio-filtration Planter A

Notes:

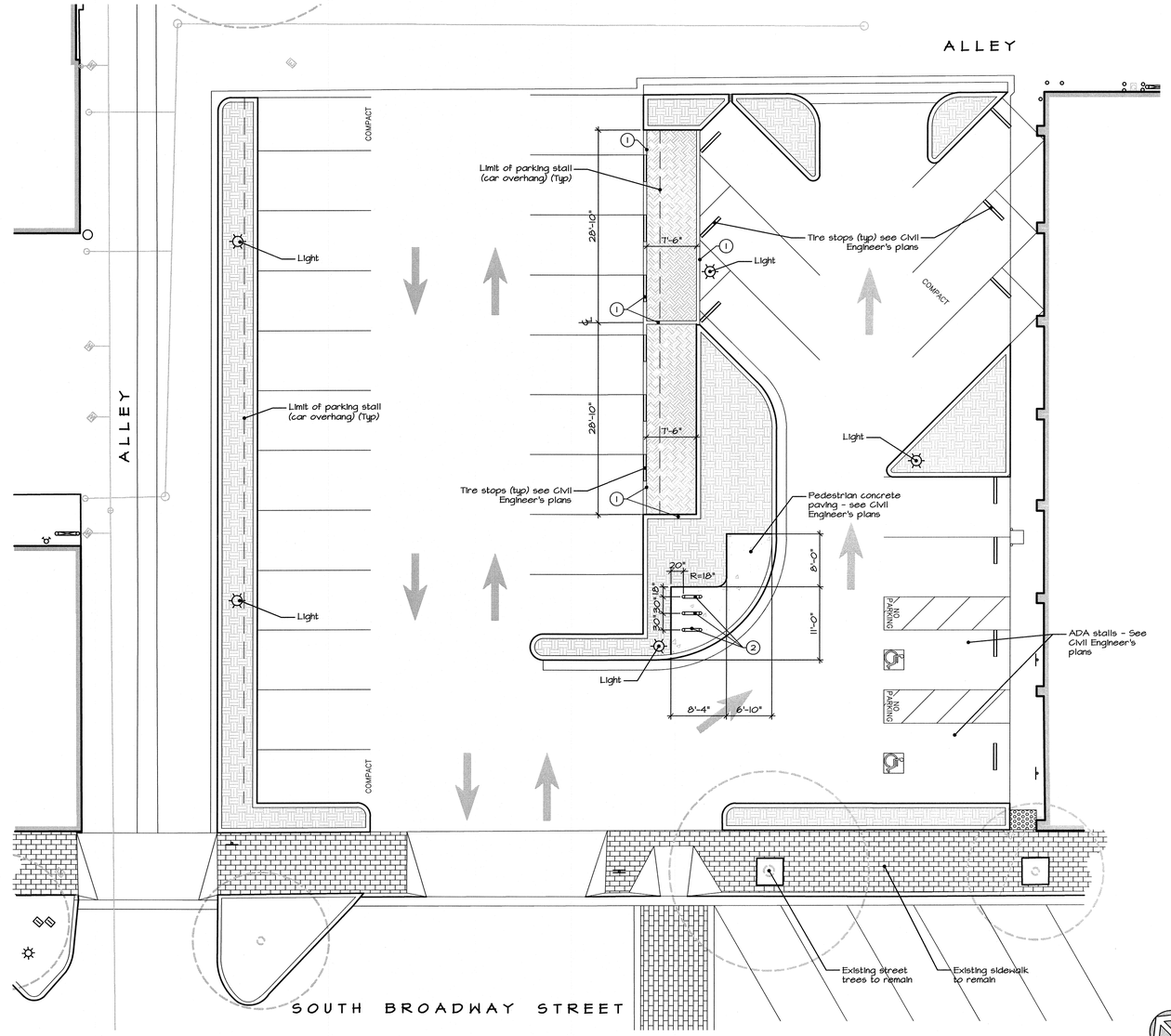
1. See Construction Callouts for specific model.
2. Surface mount install with masonry bolts, washers, etc. per manufacturer's specifications.
3. Factory finish powder coat painted, see plan for color selection.
4. Equal substitution may be approved with submittal to Landscape Architect.



Mounting Bracket



Surface Mount Bike Rack B



GENERAL CONSTRUCTION NOTES:

1. All dimensions are taken from curb face, building face, or edge of paving, unless otherwise noted on the plan. The dimensions are shown for approximate line and all radii and curves are to have continuous and smooth transitions without abrupt changes or bends.
2. All forms and alignment of paving shall be inspected and approved by the landscape Architect and/or owner prior to pouring (provide a minimum of 48 hours notice).
3. For site grading see Civil Engineer's plans.
4. Contractor shall verify location of all utilities prior to construction and shall be liable for all damages incurred.
5. Contractor shall note and install all sleeve locations as noted on the Irrigation Plans prior to installation of paving.
6. All construction and workmanship shall conform to the latest edition of the California Building Code.
7. These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Landscape Architect.
8. The contractor must check all dimensions, framing conditions, and the condition of the site prior to commencing with work. The Landscape Architect is to be notified immediately of any discrepancies or deficiencies.
9. Conditions not specifically shown shall be constructed similar to the details for the respective materials.
10. The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc. is the sole responsibility of the contractor.
11. Observation visits to the job site by the Landscape Architect do not include inspection of construction methods and safety conditions of the worksite. These visits shall not be construed as continuous and detailed inspections.
12. Design, materials, equipment, and products other than those described on the drawings or in the specifications may be considered for use, provided prior approval has been obtained from the owner, Landscape Architect, and applicable governing authority.

CONSTRUCTION CALLOUTS

No.	Detail	Item Description
1	A, Sheet L1	Install biofiltration planter. See Civil Engineer's plans for flush condition to adjacent parking lot paving and wheel stop detail.
2	B, Sheet L1	Install Orion bike Rack by Madrax, ORNS-2-SF-G, per manufacturer's specifications. Powder coat color to be Lexington Green. Contractor to coordinate with City prior to ordering.
		Biofiltration area - see Planting Plan - Install soil per the Civil Engineer's plans
		Landscape area - see Planting and Irrigation Plans

NORTH
Scale: 1" = 10'-0"

Project Location

Aerial Map

Not to scale

NO.	DATE	REVISION

CITY OF TURLOCK

CAPITOL IMPROVEMENT PROJECT #15-57

PARKING LOT RECONSTRUCTION

BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
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DF ENGINEERING, INC.
CIVIL ENGINEERING AND SURVEYING
3421 FULTON ROAD, SUITE J, MODESTO, CA 95355
(209) 529-4400 FAX (209) 529-4403 E-MAIL: dfengineering@sbcglobal.net
RCE No. 53311
Nov. 12, 2015
DATE
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KLA
www.knoxla.com
151 N. Norlin St.,
Sonora, CA 95370
LANDSCAPE (209)532-2856
ARCHITECTURE (209)532-9510 fax
PLANNING

CERTIFIED LANDSCAPE ARCHITECT
Timothy H. Holloway
Signature
10.31.16
Renewal Date
6.9.16
Date
STATE OF CALIFORNIA

JOB#	KLA-15-1771
FB NO.	262
FILE	B39-20

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STATE OF CALIFORNIA

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CITY OF TURLOCK INC. 1908

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DEVELOPMENT SERVICES
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CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ½" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	MBH
REV. BY:	
CH. BY:	TWH
DATE:	June 9, 2016
SCALE:	1"=10'-0"
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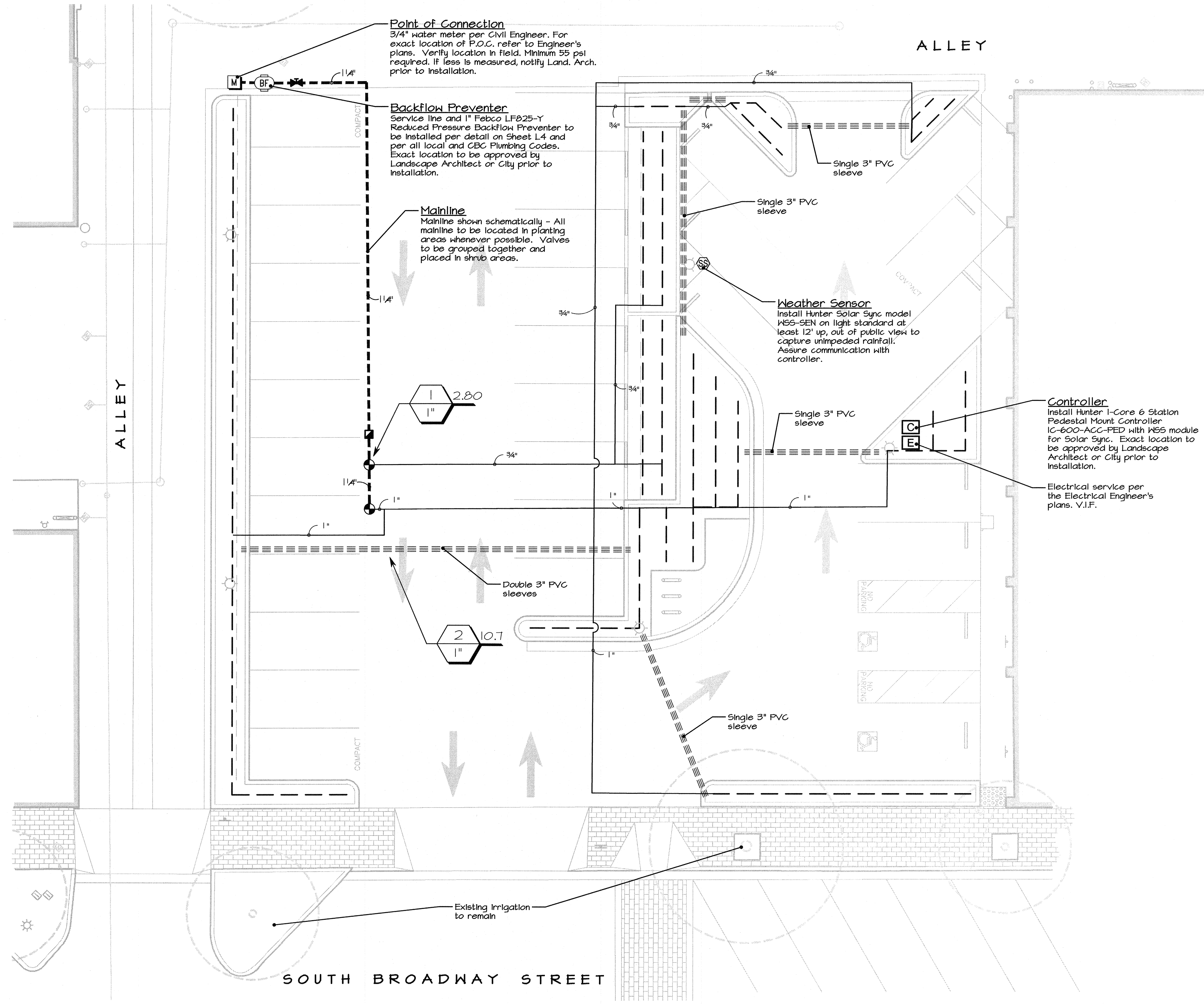
SHEET
L1



Water Efficient Landscape Ordinance - Non-Residential Landscape

Appendix D - Prescriptive Compliance Option
The Prescriptive Compliance Option is an alternate means of complying with the requirements of the Water Efficient Landscape Ordinance. It may only be used for landscapes that are less than 2,500sf (if allowed by the governing jurisdiction). The following notes must be adhered to by the design, the landscape contractor, and the owner. Should the contractor or owner deviate from these plans and notes it may put the landscape out of compliance. Any changes/deviations from the plans are to be submitted to the landscape architect for review and approval for compliance with WELO. The contractor or owner may be required (at their expense) to amend/revise the landscape installation as needed to ensure the landscape complies with the following requirements if not reviewed and approved by the landscape architect.

The signature by the landscape architect on these plans is applicable to the statement, "I agree to comply with the requirements of the Prescriptive Compliance Option to the MWELO". The owner may need to sign a similar statement depending on the specific jurisdiction.

Soil Amendments
1. Incorporate compost at a rate of at least four cubic yards per 1,000 square feet to a minimum depth of six inches into landscape area (unless a soil test recommends an alternate rate of application). Soil test will need to be prepared by a certified soil testing lab and shall be paid for by the contractor to deviate from from the 4 yards / 1000sf requirement.

Plantings (Shrubs and Groundcover)
1. For non-residential projects, plants shall be climate-adapted plants that require occasional, little or no summer water (average WUCOLS IV plant factor of 0.3 or less) for 100% of the plant area excluding edibles and areas using recycled water.
2. A minimum three inch (3") layer of mulch shall be applied on all exposed soil surfaces of planting areas except for creeping or rooting groundcovers or direct seeding applications where mulch is contraindicated.
3. Turf is not allowed

Irrigation
1. Automatic irrigation controllers are required and must use evapotranspiration or soil moisture sensor.
2. Irrigation controllers shall be of a type which does not lose programming data in the event the primary power source is interrupted.
3. Pressure regulators shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturers recommended pressure range.
4. Manual shut-off valves (such as a gate valve or ball valve) shall be installed as close as possible to the point of connection of the water supply.
5. All irrigation emission devices must meet the requirements set in the ANSI standard, ASABE/ICC 802-2014. "Landscape Irrigation Sprinkler and Emitter Standard".
6. All irrigation shall be drip emission, bubbler, low flow bubbler, or low-flow 'rotator' spray that does not over-spray on hardscape or otherwise outside of the intended irrigation area.
7. If Low-flow spray irrigation heads are used, they shall have a distribution uniformity (DU) low quarter of .65 or higher using the protocol defined in ASABE/ICC 802-2014 and shall be set 24" clear of impervious hardscape.
8. Projects with landscape areas greater than 1,000 square feet shall be installed with a meter or sub-meter to measure landscape irrigation water usage.

Close Out
1. At the time of final inspection, the permit applicant and/or installation contractor must provide the owner of the property with a certificate of completion, certificate of installation, irrigation schedule, and a schedule of landscape and irrigation maintenance. This Certificate of Completion may also be required by the governing jurisdiction. The contractor shall verify and provide if needed.

GENERAL IRRIGATION NOTES

1. The contractor shall examine the conditions of the site prior to commencement of work. Any conditions that differ from what is shown on the plans that will affect the installation process shall be brought to the attention of the Landscape Architect and/or City prior to work. Commencement of work implies acceptance of the conditions of the site.
2. Piping layout is diagrammatic. All irrigation items shown within paved areas are for design clarification only and are to be installed in planting areas where possible.
3. All mainline piping and control wires under paving shall be installed in separate schedule 40 PVC sleeves. Sleeves to be installed at the size as indicated on the plans.
4. Pipe sizes shall conform to those shown on the drawings with no smaller size substitutions. Larger size substitutions may be approved.
5. All Backflow Prevention Devices and piping between the point of connection and Backflow Preventer shall be installed per local codes. The final location of the Backflow Preventer and the Automatic Controller shall be approved by the City's Representative. The contractor is to verify the codes and requirements of all governing agencies. Any discrepancy between requirements and the plans are to be brought to the attention of the Land. Arch. immediately.
6. 120 VAC electrical power source at the controller location shall be provided by electrical engineer. Verify location of controller prior to installation.
7. Prior to turnover of project, the irrigation contractor shall flush irrigation valves and low flow bubblers are to be adjusted to provide optimal water to each plant based on specific site conditions and water needs of each plant.
8. It is the responsibility of the irrigation contractor to become familiar with all existing and proposed site elements and grades. The irrigation contractor shall repair, replace, or compensate for all items damaged by his work. The irrigation contractor shall coordinate his work with other contractors for the location and installation of pipe sleeves and laterals through walls and under paving.
9. The irrigation system design is based on a minimum operating pressure of 40 PSI and a maximum flow demand of 11 GPM. The irrigation contractor shall verify water pressures prior to installation. Any difference between the pressure indicated on the plans and that at the actual point of connection shall be brought to the attention of the landscape architect immediately.
10. Any obstructions, changes in the project layout, or grade differences not shown on the plan but affecting the operation of the irrigation system are to be brought to the attention of the landscape architect prior to installation. The irrigation contractor shall be responsible for costs associated with correcting irrigation layout if plan is different from the site and he does not bring such differences to the attention of the landscape architect.
11. All irrigation equipment not detailed or specified shall be installed per the manufacturer's recommendations and specifications.
12. Weather sensor/automatic rain shutoff shall be installed on an exposed wall or soffit adjacent to the controller location per manufacturer's specifications. It must be placed to receive unimpeded rain and free from vandalism.

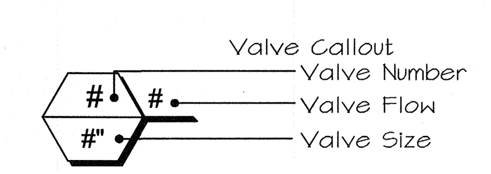
IRRIGATION LEGEND

Symbol	Manufacturer	Description / Model No.
— — — —	Approved	Install Schedule 40 PVC lateral line with IPS flex pipe and Toro LF20-PC and LF40-PC bubbler to each plant. See Detail A, Sheet L4. Contractor shall monitor the water during the maintenance period and make modifications to bubblers (GPH) at each plant to ensure that all plants are getting adequate water based on specific microclimate conditions. Each plant to receive the following minimum number of bubblers: 1 Gallon shrubs (1) Toro LF20-PC Bubbler (2.0 GPH/0.033 GPM); 5 Gallon shrubs (1) Toro LF40-PC Bubbler (4.0 GPH/0.067 GPM); 15 Gallon trees (3) Toro LF40-PC Bubbler (4.0 GPH/0.067 GPM); 24" Box Trees (4) Toro LF40-PC Bubbler (4.0 GPH/0.067 GPM). Bubblers to be spaced equally around plant.
M	Approved	Point of Connection - See the civil engineer's plan and verify in field the location and size of the water meter and service. POC shall meet all governmental code requirements.
BF	Febco	LF825Y Reduced Pressure Backflow Preventer (lead free) - see plan for size. Detail B, sheet L4
	Rainbird	100-PESB-PRS-D 1" remote control valve. Detail C, sheet L4
	Rainbird	33DLRC Quick Coupler. Detail D, sheet L4
	Nibco	T-113 Gate Valve: Line size. Detail E, sheet L4
E	Approved	Electrical service per the Electrical Engineer's plans.
C	Hunter	I-Core 6 Station Pedestal Mount Controller; ICC-600-ACC-PED Include WSS module for Solar-Sync. Detail F, Sheet L4. Controller specifications and manufacturer's details and recommendations to take precedence over City detail where they differ.
SS	Hunter	Solar-Sync - model WSS-SEN; Install on light pole away from drip line of trees. Install per manufacturer's specifications. Controller and Solar-Sync to be installed with modules and receivers as needed for operation. Detail G, Sheet L4
— — — —	Approved	Schedule 40 PVC Pressurized Mainline: See Plan for size. Detail H, sheet L4
————	Approved	Schedule 40 PVC Lateral Line: See Plan for size. Detail H, sheet L4
≡≡≡≡	Approved	Schedule 40 PVC Sleeve (two per location). Detail J, sheet L4

Water Efficient Landscape Ordinance (WELO)

Prescriptive Compliance Option
This landscape has been designed to comply with the 'Prescriptive Compliance Option' of the revised Model Water Efficient Landscape Ordinance effective December 1, 2015. As such, the landscape must be installed per these plans with no changes to the plant species without specific approval by the landscape architect. Turf may not be installed. A minimum of 75% of the shrub/groundcover areas are to be low water use species (.3 plant factor per WUCOLS 4). Overhead spray irrigation must be .65% efficient (no spray has been design or authorized) or better and a weather sensor must be tied to the 'Smart' controller.

The signature of the Landscape Architect on these plans is applicable to the statement - "I agree to comply with the requirements of the Prescriptive Compliance Option to the MWELO".



NORTH
Scale: 1" = 10'-0"

0' 5' 10' 20'

CITY OF TURLOCK
CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION
BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
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3421 TULLY ROAD · SUITE J · MODESTO, CA 95350
TELEPHONE (209) 529-7450 · FAX (209) 529-0457
RCE No. 53311
Nov. 12, 2015
DATE

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(209)532-9510 fax

LICENSED LANDSCAPE ARCHITECT
THOMAS W. HOLLOWAY
Signature
10.31.16
Renewal Date
6.9.16
Date
STATE OF CALIFORNIA

JOB#	KLA-15-1771
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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
DEVELOPMENT SERVICES
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156 S. BROADWAY, STE 150
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CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ¼" ½" ¾" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	MBH
REV. BY:	
CH. BY:	TWH
DATE:	June 9, 2016
SCALE:	1"=10'-0"
Base1771.dwg	

SHEET
L2

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT		QTY	Water Use
GEI PAR	Geijera parviflora	Australian Willow	15 gal		3	Low
SCH MOL	Schinus molle	California Pepper	24"box		1	Low
ULM PAR	Ulmus parvifolia	Chinese Elm	15 gal		4	Medium
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**		**QTY**	**Water Use**
BOU GRA	Bouteloua gracilis	Blue Grama Grass	1 gal		28	Low
CAL KF	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	5 gal		28	Low
DIA VAR	Dianella tasmanica 'Variegata'	Flax Lily	5 gal		30	Medium
OLE EUR	Olea europaea 'Little Ollie'	Little Ollie Olive	5 gal		34	Low
RHA MIN	Rhaphiolepis umbellata 'Minor'	Yedda Hawthorn	5 gal		28	Low
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**	**QTY**	**Water Use**
ARC UVA	Arctostaphylos uva-ursi	Kinnikinnick	1 gal	36" o.c.	249 sf	Low
FES MAI	Festuca mairei	Atlas Fescue	1 gal	24" o.c.	217 sf	Low

Non-Living Groundcover

Mulch to be evenly distributed throughout all shrub and groundcover areas (not turf and Fescue) unless otherwise noted on plans. Mulch to be nitrogen stabilized, max. 3/4", recycled material installed at min. 3" depth. Contractor to provide sample for approval prior to installation. "Gorilla-Hair" is not acceptable unless specifically noted for slope areas.

Planting Detail References

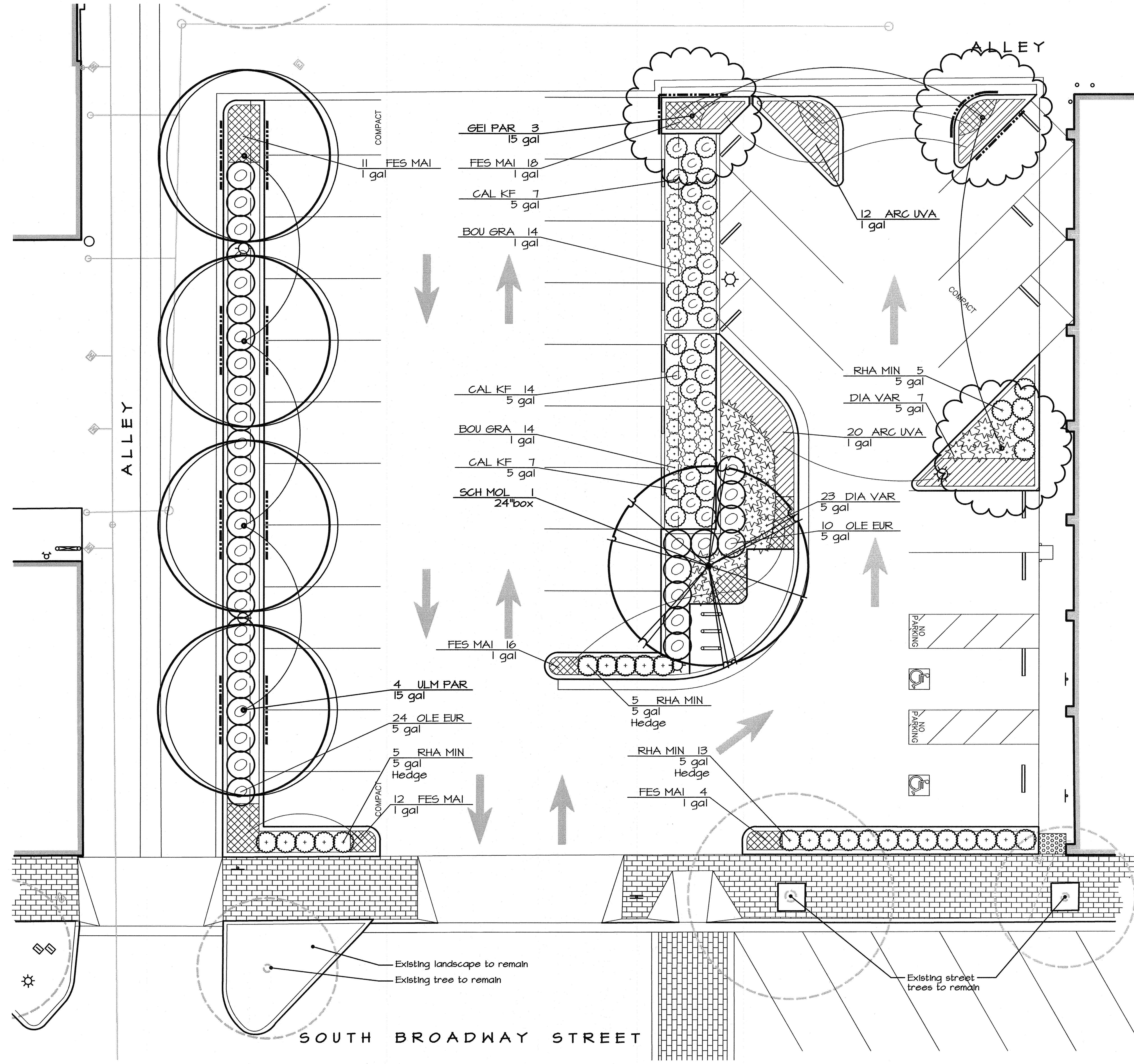
For Broadleaf Trees, refer to Detail I, Sheet L4
For Shrubs, refer to Detail K, Sheet L4
For Groundcovers, refer to Detail L, Sheet L4

LANDSCAPE AREAS

Turf:	0 sf	0%
Shrub:	1,440 sf	76.9%
Biofiltration:	433 sf	23.1%
Total Landscape Area:	1,873 sf	100%

GENERAL PLANTING NOTES

1. The contractor shall examine the conditions of the site prior to commencement of work. Any conditions that differ from what is shown on the plans that will affect the installation process shall be brought to the attention of the City or Land. Arch. prior to work. Commencement of work implies acceptance of the conditions of the site.
2. The contractor shall verify all plant quantities prior to installation. Plant quantities are listed for the convenience of the contractor, number of symbols shall have priority over quantity given.
3. The contractor shall be responsible for the purchasing of all material to meet the specifications of the plans including plants, soil, fertilizer, and stakes. The contractor shall also be responsible for the protection of these materials until the project has been completely turned over to the City.
4. All plant material shall be subject to approval or rejection by the Landscape Architect or City's Representative prior to installation. Installed and then rejected material shall be replaced by the contractor at his/her expense.
5. The contractor shall include in the bid for a continued maintenance period of ninety (90) days after completion and acceptance of the project by the City or City's Rep.
6. Trees to be planted a min. of 3'-0" from edge of paving or walls (unless otherwise stated on plan). All trees in a formal group or in a row shall be matching in size and shape.
7. The following soil amendments specified are for bidding purposes only. The Landscape Contractor shall provide for a Soil Agronomy Report from an approved soils laboratory and/or any additional specifications provided by the Land. Arch. prior to installation of the plant material. The following amendments shall be incorporated into all planting pits and broadcast into soil to depth of 12" by means of a rototiller or equal per 1000 square feet.
   4 cyds nitrogen stabilized organic
   amendment derived from redwood
   sawdust, fir sawdust or cedar sawdust.
   15 lbs. soil sulfur
   15 lbs. 15-15-15 fertilizer
8. All soil preparation shall be installed per the soil agronomy report to be provided and paid for by the Landscape Contractor. The report is to be immediately forwarded to the Land. Arch. upon completion.
9. A nitrogen stabilized commercial-grade mulch with maximum 3/4" dia. chip size shall be uniformly broadcast over all shrub areas (not turf) to a depth as specified on the Planting Legend.
10. The planting pits for trees shall be excavated per the detail on the Landscape Details sheet. The backfill mix for use in all tree and shrub pits shall consist of the following:
    6 parts 'on-site' soil
    4 parts organic amendment (above)
    1 lb./yd. of mix 12-12-12 commercial fertilizer
    2 lbs./cu. yd. of mix Iron Sulfate
    10 lbs./cu. yd. of mix Agricultural Gypsum
11. Fertilizer tablets shall be BEST, 21 gram fertilizer tablets (20-10-5) placed in all planting pits in quantities as follows:
    1 gallon — 1 tablet
    5 gallon — 3 tablets
    15 gallon — 9 tablets
    24"-Box — 9 tablets
12. Thirty (30) days after installation all landscape shall be fertilized with 16-6-8 Fertilizer applied at the rate of 6 lbs./1000 sf. Fertilizer application shall be continued thereafter at bi-monthly intervals.
13. For weed control prior to planting, the Landscape Contractor shall thoroughly irrigate the site to promote germination of weed seeds that may be in the soil. After germination has taken place spray the site with Round-Up (or equal) in the amount, and let sit for the time specified by the manufacturer. Reapply Round-Up if needed. After all green weeds have been eradicated, apply Ronstar-G (or equal) Pre-Emergent weed control in the amounts specified by the manufacturer.
14. All plant material to be nursery grown in similar climate. All plant material shall be vigorous and of normal habit of growth and shall be free of girdling roots, sun scald, abrasions, disease, insects, insect eggs and larvae. Plants shall equal or exceed the standards as outlined by the American Standards for Nursery Stock and to applicable California Agriculture Code.



TREE ROOT BARRIERS

All trees denoted with the root barrier symbol are to have a linear DeepRoot Model #UB 18-2 root barriers installed during tree installation along the inside edge of the adjacent sidewalk or curb. The following number of panels are to be installed with each tree on each side as indicated by the plans per the size of tree as installed:

15 gallon trees: 5 panels
24" box trees: 6 panels

Sizes not listed above are to be installed with the quantity of panels as specified by the manufacturer.

Root Solutions RS-18 may be used as an alternate. Use the same quantities per tree sizes as listed above. 1(800)554-0914

See detail M, sheet L4

GENERAL BIO-RETENTION BASIN PLANTING NOTES

1. The bio-retention basin has specially designed soils to aid in the pre-treatment of storm water before discharge into the general storm water system. These soils require care and are not as supportive of plantings, trees and foot traffic as most native soils.
2. The landscape contractor shall maintain the grades and flow lines as shown on the civil engineer's plans. There shall be no deviations without written authorization by the Civil Engineer.
3. Avoid compacting soils during planting operations.
4. Do not install organic soil amendments or fertilizers in bio-retention areas. Use no herbicides or pesticides for maintenance of the basin.
5. Do not install top dress mulch in basin.
6. Control weeds by hand pulling to eliminate competition for water, nutrients and sunlight. Avoid compacting soils during maintenance operations.
7. Replace plants that die to avoid spreading disease. Consult landscape architect to determine if a replacement species is needed.

Water Efficient Landscape Ordinance (WELO)

Prescriptive Compliance Option

This landscape has been designed to comply with the 'Prescriptive Compliance Option' of the revised Model Water Efficient Landscape Ordinance effective December 1, 2015. As such, the landscape must be installed per these plans with no changes to the plant species without specific approval by the landscape architect. Turf may not be installed. A minimum of 75% of the shrub/groundcover areas are to be low water use species (.3 plant factor per WUCOLS 4). Overhead spray irrigation must be .65% efficient (no spray has been design or authorized) or better and a weather sensor must be tied to the 'Smart' controller.

The signature of the Landscape Architect on these plans is applicable to the statement - "I agree to comply with the requirements of the Prescriptive Compliance Option to the MWELO".

NORTH
Scale: 1" = 10'-0"
0' 5' 10' 20'

REVISION		
NO.	DATE	REVISION

CITY OF TURLOCK
CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION
BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS
LYING IN THE SOUTHWEST QUARTER OF SECTION 14, T.5 S., R.10 E., M.D.B.& M.
CITY OF TURLOCK, COUNTY OF STANISLAUS, STATE OF CALIFORNIA

DF ENGINEERING, INC.
CIVIL ENGINEERING AND SURVEYING
3421 TULLY ROAD · SUITE J · MODESTO, CA 95350
TELEPHONE (209) 529-7450 · FAX (209) 529-0457
RCE No. 53311 Nov. 12, 2015
DATE

KLA LANDSCAPE ARCHITECTURE PLANNING
www.knoxla.com
151 N. Norlin St.,
Sonora, CA 95370
(209)532-2856
(209)532-9510 fax

LICENSED LANDSCAPE ARCHITECT THOMAS W. HOLLOWAY
Signature
10.31.16 Renewal Date
6.9.16 Date
STATE OF CALIFORNIA

JOB#	KLA-15-1771
FB NO.	262
FILE	B39-20

USA NORTH 811 Call 811 Before You Dig WWW.USANORTH811.ORG

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.

MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL G. PITCOCK No. 52694 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/3/16

CITY OF TURLOCK INC. 1908

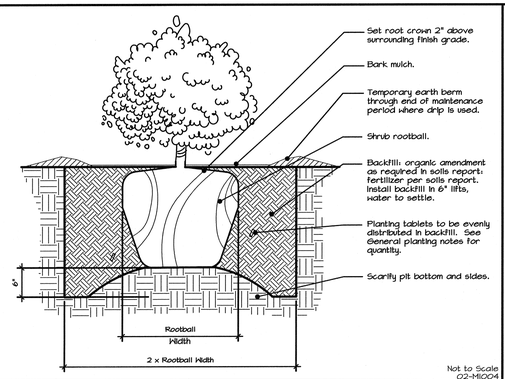
CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ¼" ½" ¾" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

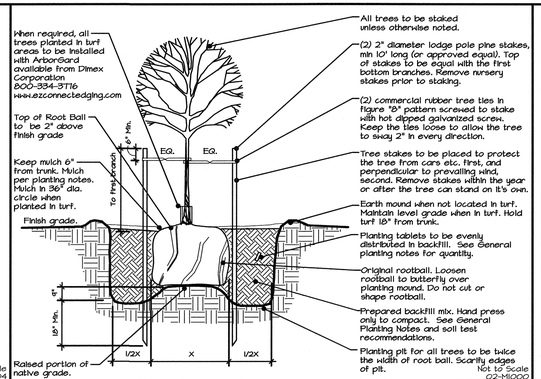
DRAWN BY:	MBH
REV. BY:	
CH. BY:	TWH
DATE:	June 9, 2016
SCALE:	1"=10'-0"
Base1771.dwg	

SHEET
L3



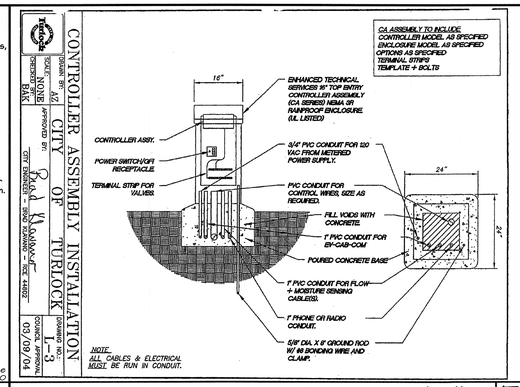
Not to Scale
02-M1004

Shrub Planting | K

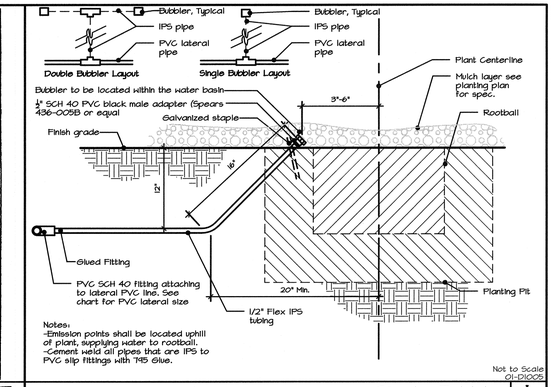


Not to Scale
02-M1000

Broadleaf Tree Planting and Staking | I

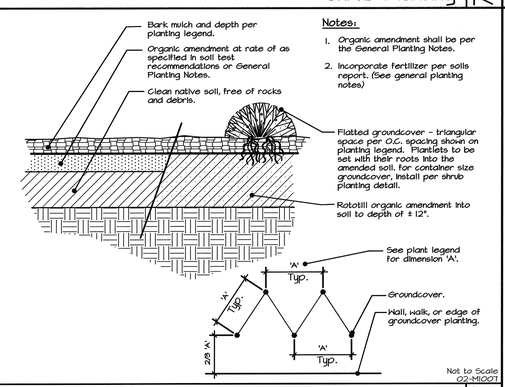


Controller | F



Not to Scale
01-D1005

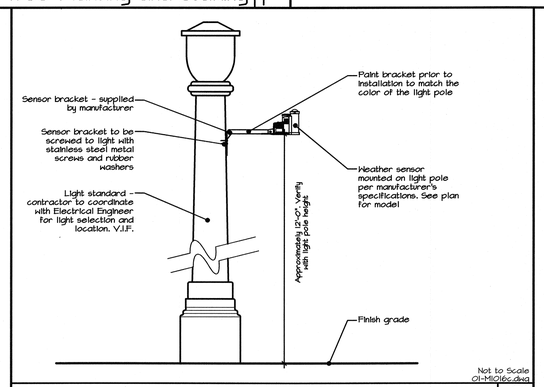
Single Bubbler | A



Notes:
1. Organic amendment shall be per the General Planting Notes.
2. Incorporate fertilizer per soils report. (See general planting notes)

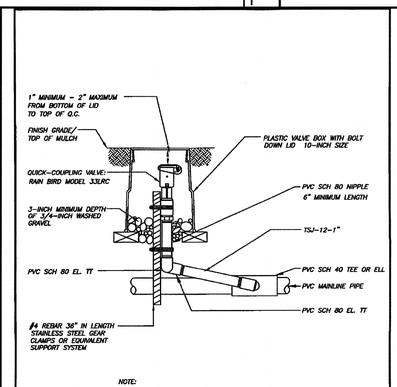
Not to Scale
02-M1001

Groundcover Planting With Triangular Spacing | L



Not to Scale
01-M1016c.dwg

Wireless Weather Sensor on Light Standard | G

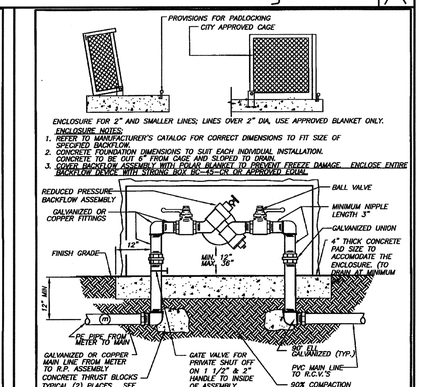


NOTE:
1. FURNISH FITTINGS AND PIPING SIZED THE SAME SIZE AS THE INLET SIZE OF THE QUICK COUPLING VALVE.

STANDARD QUICK-COUPLING VALVE

DRAWN BY: EB | SCALE: NONE | CHECKED BY: EAP | CITY OF TURLOCK | APPROVED BY: CITY ENGINEER - MIKE PITCOCK - RCE 52694 | DRAWING NO.: L-7 | COUNCIL APPROVAL MAR. 25-08

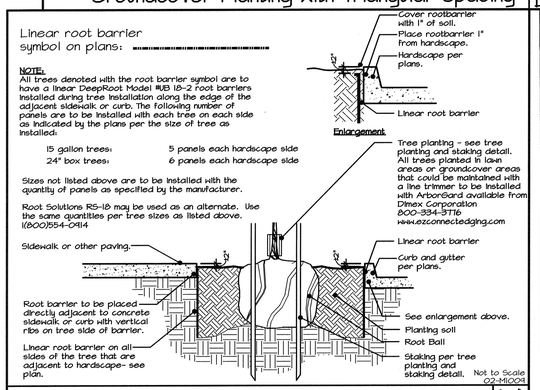
Quick Coupler | D



3/4"-2" BACKFLOW PREVENTER ASSEMBLY DETAIL

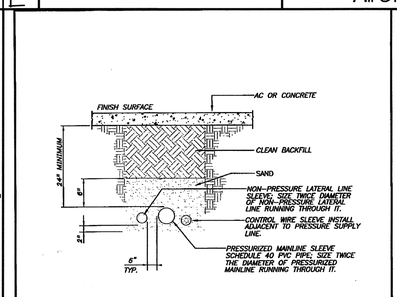
DRAWN BY: AZ | SCALE: NONE | CHECKED BY: EAP | CITY OF TURLOCK | APPROVED BY: CITY ENGINEER - MIKE PITCOCK - RCE 52694 | DRAWING NO.: W-10 | COUNCIL APPROVAL MAR. 25-08

Backflow Preventer | B



Not to Scale
02-M1008

Trunk Protection and Linear Root Barrier | M

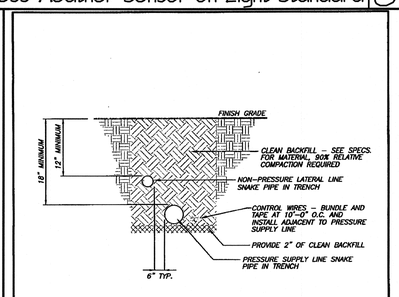


NOTES:
1. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS
2. COMPACT SOIL BACKFILL TO 90% THROUGH WATER JETTING. 4" OF SCREENED SAND REQUIRED AROUND MAIN LINE PRIOR TO WATER JET COMPACTION.
3. SCHEDULE 40 PVC PIPE MUST BE USED AS SLEEVE UNDER ALL PAVING, WITH A 4" SCREENED SAND COVER.
4. ALL IRRIGATION WIRE MUST HAVE A SEPARATE SLEEVE MEETING THE SAME STATED INSTALLATION CONDITIONS.

SLEEVING DETAIL

DRAWN BY: AZ | SCALE: NONE | CHECKED BY: EAP | CITY OF TURLOCK | APPROVED BY: CITY ENGINEER - MIKE PITCOCK - RCE 52694 | DRAWING NO.: L-11 | COUNCIL APPROVAL MAR. 25-08

Irrigation Sleeve | J

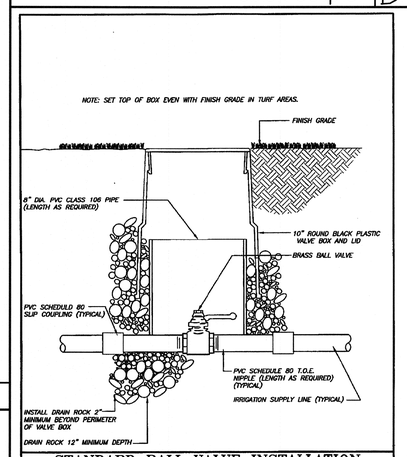


NOTES:
1. PIGTAIL AND LOOP CONTROL WIRE AT ALL 90 DEGREE CHANGES IN DIRECTION.
2. INSTALL MAIN LINE ACCORDING TO MANUFACTURER'S SPECIFICATIONS. COMPACT SOIL BACKFILL TO 90% THROUGH WATER JETTING. 4" OF SCREENED SAND REQUIRED AROUND MAIN LINE PRIOR TO WATER COMPACTION.

TRENCHING DETAIL

DRAWN BY: AZ | SCALE: NONE | CHECKED BY: EAP | CITY OF TURLOCK | APPROVED BY: CITY ENGINEER - MIKE PITCOCK - RCE 52694 | DRAWING NO.: L-12 | COUNCIL APPROVAL MAR. 25-08

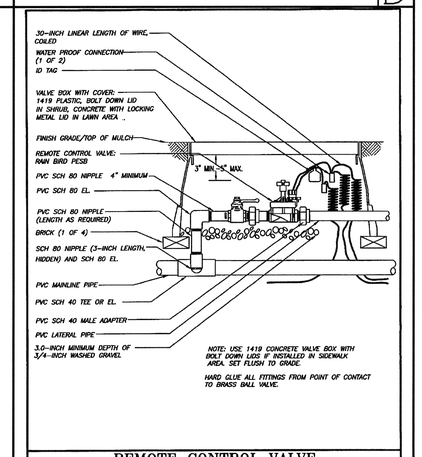
Piping and Wiring | H



STANDARD BALL VALVE INSTALLATION

DRAWN BY: EB | SCALE: NONE | CHECKED BY: EAP | CITY OF TURLOCK | APPROVED BY: CITY ENGINEER - MIKE PITCOCK - RCE 52694 | DRAWING NO.: L-5 | COUNCIL APPROVAL MAR. 25-08

Shut Off Valve | E



REMOTE CONTROL VALVE

DRAWN BY: EB | SCALE: NONE | CHECKED BY: EAP | CITY OF TURLOCK | APPROVED BY: CITY ENGINEER - MIKE PITCOCK - RCE 52694 | DRAWING NO.: L-6 | COUNCIL APPROVAL MAR. 25-08

Remote Control Valve | C

NO.	DATE	REVISION

CITY OF TURLOCK

CAPITOL IMPROVEMENT PROJECT #15-57
PARKING LOT RECONSTRUCTION
BEING LOTS 28-32 OF THE MAP OF THE CITY OF TURLOCK
FILED IN VOLUME 9 OF MAPS AT PAGE 25, STANISLAUS COUNTY RECORDS
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CITY OF TURLOCK, COUNTY OF STANISLAUS, STATE OF CALIFORNIA

DF ENGINEERING, INC.
CIVIL ENGINEERING AND SURVEYING
3421 TULLY ROAD, SUITE J, MODESTO, CA 95350
TEL: (209)524-2900 (209)524-2901 FAX: (209)524-2902
RCE No. 53311
Nov. 13, 2015
KLA
www.knoxla.com
151 N. Norlin St.,
Sonora, CA 95370
(209)532-2856
(209)532-9510 fax
LANDSCAPE ARCHITECTURE PLANNING

KNOX LANDSCAPE ARCHITECT
WILLIAM H. HOLLOWAY
Signature
10.31.16
Renewal Date
6.9.16
Date
STATE OF CALIFORNIA

JOB#	KLA-15-1771
FB NO.	262
FILE	B39-20

USA NORTH 811
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MICHAEL G. PITCOCK, P.E.
DIRECTOR OF DEVELOPMENT SERVICES/CITY ENGINEER
8/9/16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL G. PITCOCK
No. 52694
Exp. 12-31-16
CIVIL
STATE OF CALIFORNIA

NATHAN BRAY, P.E.
PRINCIPAL CIVIL ENGINEER
DATE: 8/3/16

CITY OF TURLOCK INC. 1908

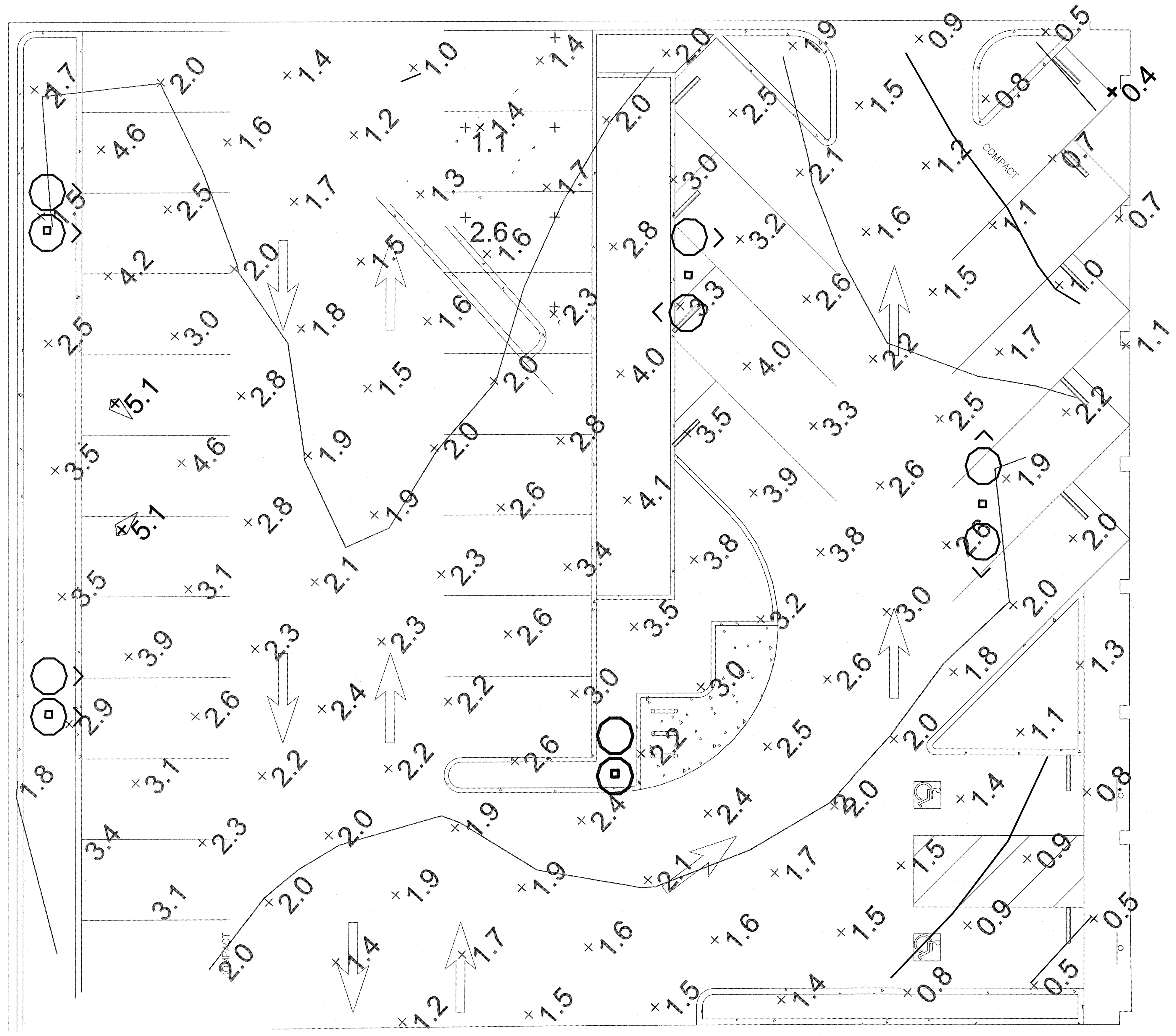
CITY OF TURLOCK
DEVELOPMENT SERVICES
ENGINEERING DIVISION
156 S. BROADWAY, STE 150
(209) 668-5520

CAPITAL PROJECT #15-57
CITY OF TURLOCK
PARKING LOT RECONSTRUCTION

VERIFY SCALE
BAR IS 1" ON ORIGINAL DRAWING
0 ½" ¾" 1"
X'
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY:	MBH
REV. BY:	
CH. BY:	TWH
DATE:	June 9, 2016
SCALE:	1"=10'-0"
Base1771.dwg	

SHEET
L4



1 SITE LIGHTING PHOTOMETRICS PLAN
SCALE: 1"=10'-0"

N

ELECTRICAL ABBREVIATIONS

Δ	DELTA CONNECTED
Y	WYE CONNECTED
0	PHASE
&	AND
@	AT
'	FEET
"	INCHES
A	AMPERES
AC	ALTERNATING CURRENT
ACT	ABOVE COUNTERTOP/BACKSPLASH
ADJ	ADJACENT, ADJOINING
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT
AUTO	AUTOMATIC
AUX	AUXILIARY
ALT	ALTERNATE
AWG	AMERICAN WIRE GAUGE
B	BARE
BC	BARE COPPER GROUND
BKBD	BACKBOARD
BRKR	BREAKER
BLDG	BUILDING
C	CONDUIT OR CONTRACTOR
CAB	CABINET
CATV	CABLE TELEVISION
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATION
CONC	CONCRETE
CONN	CONNECT
CONT	CONTINUATION OR CONTINUED
COORD	COORDINATE
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER
COMP	COMPRESSOR
CU	COPPER
DC	DIRECT CURRENT
DET	DETAIL
DISC	DISCONNECT
DIST	DISTRIBUTION
DSA	DIVISION OF THE STATE ARCHITECT
DWG	DRAWING
(E), EXIST	EXISTING
EC	ELECTRICAL CONTRACTOR
EL, ELEV	ELEVATION
EL	EMERGENCY LIGHT
ELECT	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
EQUIP	EQUIPMENT
ETC	ET CETERA
EVAP	EVAPORATOR

(F)	FUTURE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAT	FIRE ALARM TERMINAL CABINET
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FS	FLOW SWITCH
FOR	FORWARD-OFF-REVERSE
FT	FEET
GALV	GALVANIZED
GND	GROUND
GC	GENERAL CONTRACTOR
HI	HIGH
HOA	HAND-OFF-AUTO
HOS	HAND-OFF-STANDBY
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATION, AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
INCAN	INCANDESCENT
IDC	INITIATING DEVICE CIRCUIT
IN	INCHES
INST	INSTANTANEOUS
J	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
L	LINE
LB	ELBOW
LF	LINEAR FEET
LOS	LOCKOUT-STOP
LOH	LOCK-OFF-HALT
LV	LOW VOLTAGE
M	MOTOR
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILLS
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MPOE	MAIN POINT OF ENTRY
MSB	MAIN SWITCHBOARD
N	NEUTRAL
(N)	NEW
NA	NON-AUTOMATIC
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NIES	NOT IN ELECTRICAL SECTION
NIC	NOT IN ELECTRICAL CODE
NO., #	NUMBER
NO	NORMALLY OPEN
NL	NIGHT LIGHT

OC	ON CENTER
OH	OVERHEAD
OL	THERMAL OVERLOAD RELAY
OT	OVER TEMPERATURE
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PA	PUBLIC ADDRESS
PB	PULL BOX
PNL	PANEL
PH	PHASE
PR	PAIR
PRI	PRIMARY
PS	PRESSURE SWITCH
PWR	POWER
(R)	REMOVE(D)
RA	REMOTE ANNUNCIATOR
RD	ROAD
REQD	REQUIRED
REQMTS	REQUIREMENTS
RGP	REDUNDANT GROUND PATH
RM	ROOM
RECP	RECEPTACLE
RT	RAIN TIGHT
SCH	SCHEDULE
SEC	SECONDS, SECONDARY
SHT	SHEET
SIG	SIGNAL
SPECS	SPECIFICATIONS
SW	SWITCH
SWD	SWITCHED
SP	SPARE
STD	STANDARD
STR	STRANDED
SWBD	SWITCHBOARD
TELE	TELEPHONE
TEMP	TEMPERATURE
TOA	TEST OFF AUTOMATIC
TH	THERMOSTAT
TRANSF	TRANSFORMER
TYP	TYPICAL
TSP	TWISTED SHIELDED PAIR
THRU	THROUGH
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT AMPS
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLT METER
W	WIRE
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WHD	WATT HOUR DEMAND METER
WM	WATT METER
WH	WATER HEATER
XFMER	TRANSFORMER
(XR)	REMOVE AND RELOCATE(D)

GENERAL ELECTRICAL NOTES

1. PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND ALL PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK REQUIRED FOR THE COMPLETE AND OPERATING SYSTEMS AS OUTLINED WITHIN THE SCOPE OF WORK.
2. THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE.
3. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE AS NOTED ON CONSTRUCTION DOCUMENTS.
4. DO NOT PENETRATE STRUCTURAL MEMBERS, INCLUDING BEAMS, COLUMNS, OR FOOTINGS, WITHOUT PRIOR WRITTEN CONSENT OF THE SEOR. SHOULD IT BECOME NECESSARY TO PENETRATE SUCH MEMBERS, NOTIFY THE DISTRICT IN WRITING WITHOUT DELAY, PRIOR TO PROCEEDING WITH CONSTRUCTION AROUND SUCH MEMBERS.
5. ALL ELECTRICAL WORK SHALL CONFORM WITH THE 2013 CALIF. ELECTRICAL CODE CALIFORNIA TITLE 17, 19 & 24 ALONG WITH N.F.P.A. STANDARDS AND THE STATE FIRE MARSHAL'S REQUIREMENTS.
6. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF STATE & GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
7. WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.
8. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
9. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
10. OPERATED DEVICES SUCH AS, BUT NOT LIMITED TO, TELE/DATA OUTLETS, RECEPTACLE OUTLETS AND LIGHT SWITCHES INSTALLED IN AREAS NOT RESTRICTED TO AUTHORIZED MAINTENANCE PERSONAL SHALL BE MOUNTED AT A MINIMUM OF +15" AFF., AS MEASURED FROM THE BOTTOM OF THE DEVICE OUTLET BOX, AND MAXIMUM OF +48" AFF., AS MEASURED FROM THE TOP OF THE DEVICE OUTLET BOX.
11. ALL CHANGE ORDER PROPOSALS AND CHANGE ORDERS, BOTH ADDITIVE AND DEDUCTIVE, SHALL BE BASED UPON AND BE ACCOMPANIED BY A DETAILED MATERIALS AND LABOR BREAKDOWN FOR EACH SPECIFIC TASK AND/OR ITEM. THE BREAKDOWN SHALL INCLUDE ACTUAL MATERIALS COSTS PLUS OVERHEAD AND PROFIT, AS WELL AS LABOR UNITS BASE UPON THE MOST RECENT NECA MANUAL OF LABOR UNITS (NECA INDEX #4090) OR EQUIVALENT PUBLICATION FOR EACH SPECIFIC TASK AND ITEM. LABOR COSTS SHALL BE COMPUTED AS OUTLINED WITHIN THE GENERAL CONDITIONS, BASED UPON THE NECA LABOR TABLES FOR EACH TASK REQUIRED. MATERIALS COSTS SHALL INCLUDE ACTUAL CONTRACTOR INVOICE PLUS NO MORE THAN 15% MARKUP. THE OWNER AND CONTRACTOR AGREE TO THE ABOVE CHANGE ORDER COST PROCEDURE, FOR BOTH ADDITIVE AND DEDUCTIVE CHANGE ORDERS.
12. ALL PERSONNEL WORKING WITH ENERGIZED EQUIPMENT WITHIN THE RESTRICTED ZONE PER NFPA-70E SHALL COMPLY WITH ALL NFPA-70E AND OSHA REQUIREMENTS AND BE ARC FLASH SAFETY CERTIFIED.

ELECTRICAL COMPLIANCE NOTES

THE INTENT OF THE DRAWINGS AND SPECIFICATION IS TO CONSTRUCT THE PROPOSED BUILDING IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 22, DIVISION 7, CHAPTER 7, CALIFORNIA CODE OF REGULATIONS AND TITLE 24 -- ALL APPLICABLE PARTS OF LATEST EFFECTIVE EDITIONS.

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:

2013 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2013 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR
BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC)
2013 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR
BASED ON THE 2011 NATIONAL ELECTRICAL CODE (NEC)
2013 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR
BASED ON THE 2012 UNIFORM MECHANICAL CODE (UMC)
2013 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR
BASED ON THE 2012 UNIFORM PLUMBING CODE (UPC)
2013 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR
BASED ON THE 2012 INTERNATIONAL FIRE CODE (IFC)

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

GENERAL ELECTRICAL LEGEND

- CONCRETE PULL BOX -SIZE AS NOTED - LIDS AS NOTED 'P' POWER, 'S' SIGNAL, 'F' FIRE ALARM & 'D' DATA; '-T' DENOTES TRAFFIC LID
- CONDUIT -SURFACE MOUNTED OR ABOVE CEILING -EMT WITH COMPRESSION FITTING UNLESS NOTED ON PLANS
- CONDUIT -CONCEALED BELOW FLOOR IN EMT OR UNDERGROUND IN PVC SCH 40 WITH IMC ELBOWS
- HOMERUN TO PERSPECTIVE PANEL OR CABINET -BRANCH CIRCUIT WITH OUT FURTHER DESIGNATION IS A #12 WIRE CIRCUIT
- GROUND, NEUTRAL, WIRE SIZE, CKT. WIRE (XX)
- FLEX
- TERMINAL CABINET
- PANEL BOARD -SEE SCHEDULE
- MOTOR/EXHAUST FAN -N.I.E.S. -CONNECT AS REQUIRED
- DUPLEX RECEPTACLE +18" A.F.F. U.O.N.
- QUADPLEX RECEPTACLE +18" A.F.F. U.O.N.
- FLOOR POWER RECEPTACLE -WALKER OR EQUAL
- 30A. -4 WIRE GROUND RECEPTACLE +18" A.F.F. - HUBBELL, BRYANT, OR EQUAL
- 50A. -4 WIRE GROUND RECEPTACLE +18" A.F.F. - HUBBELL, BRYANT, OR EQUAL
- GFCI RECEPTACLE +18" A.F.F. U.O.N.
- JUNCTION BOX -4 11/16" x 2 1/8" SQUARE OR SMALL
- JUNCTION BOX -LARGER THAN 4 11/16" x 2 1/8" SQUARE
- FLOOR JUNCTION BOX -WALKER OR EQUAL
- FUSED DISCONNECT SWITCH -SIZE AS NOTED -30A. SHOWN
- FULL VOLTAGE STARTER -SIZE AS NOTED -SIZE 3 SHOWN
- COMBINATION STARTER -SIZE AS NOTED -SIZE 3 SHOWN

APPROVED BY THE CITY OF TURLOCK
8/7/16
MICHAEL G. PITCOCK P.E. DATE
DIRECTOR OF DEVELOPMENT SERVICES
CITY ENGINEER, RCE 52694

REVISIONS

MILLER PEZZONI & ASSOCIATES, INC.
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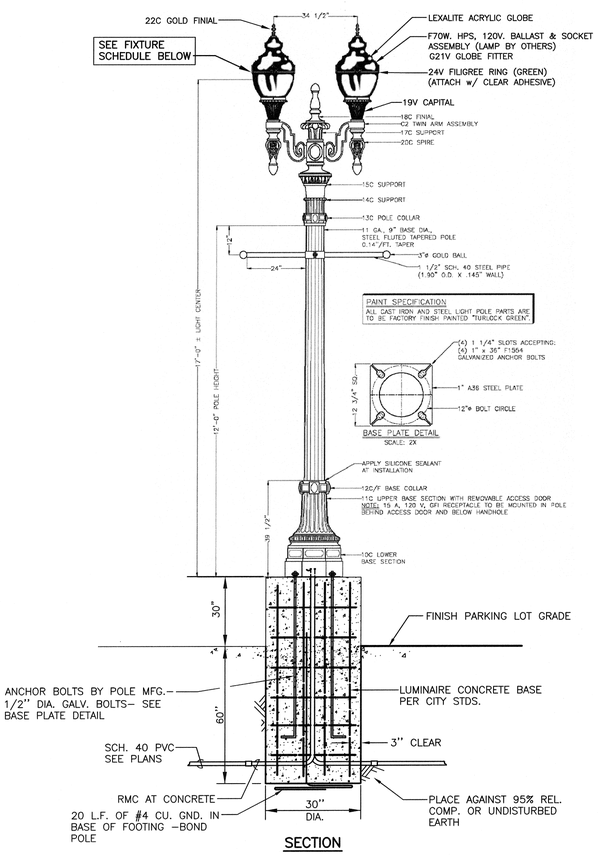
REGISTERED PROFESSIONAL ENGINEER KEVIN L. PEZZONI NO. 16269 EXP. 12/16 ELECTRICAL STATE OF CALIFORNIA

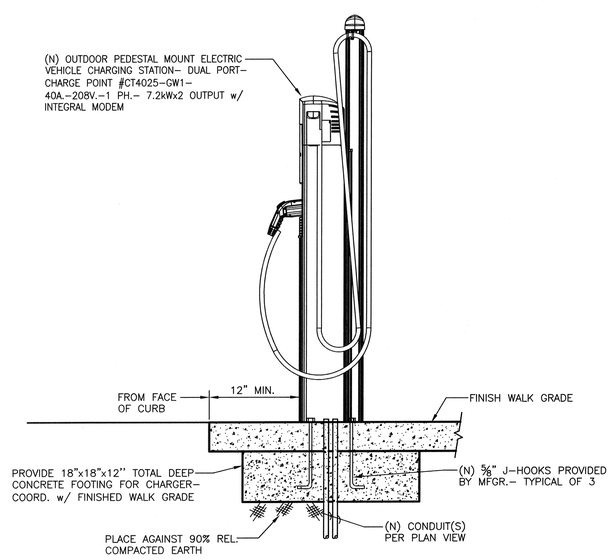
ELECTRICAL PLAN
PARKING LOT RECONSTRUCTION
CAPITAL PROJECT #15-57
CITY OF TURLOCK

DRAWN BY	CAL
CHECK BY	KLP
SCALE	AS SHOWN
DATE	01/04/16
JOB	15-493
SHEET NO.	E-0
OF	SHEETS



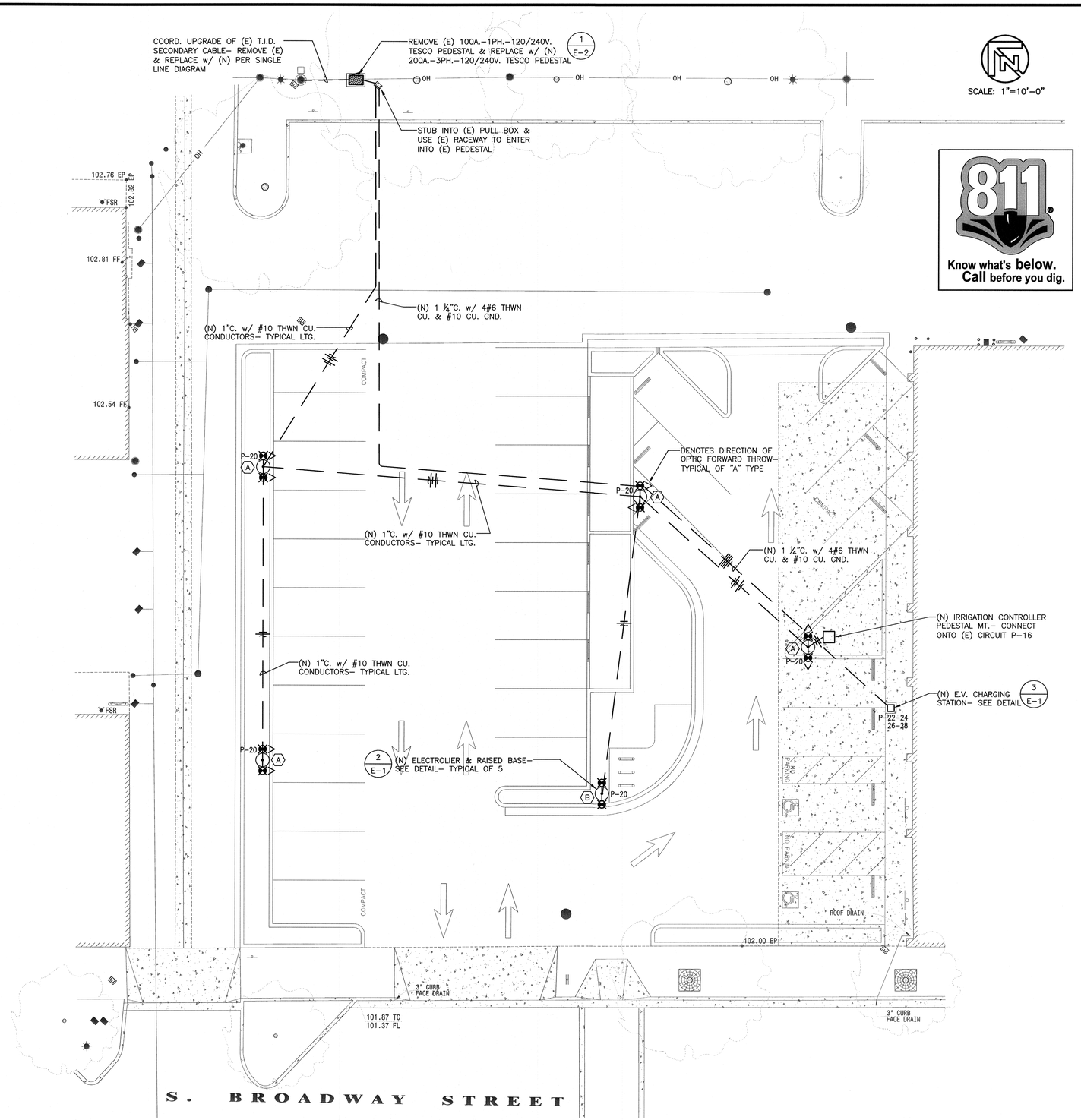
2 RAISED BASE POST TOP ELECTROLIER

SCALE: N.T.S.



3 ELECTRIC VEHICLE CHARGING STATION

SCALE: N.T.S.



LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP QTY/WATTS	DESCRIPTION	MANUFACTURER
A		HPS 70 WATTS	REFLECTIVE GLOBE HPS POST TOP WITH 0-10V. DIMMING TYPE III DISTRIBUTION	VISCO #VI-C-C2-F/12'-70HPS-RDB50-III-22C-24V-BA-GFI-AB
B		HPS 70 WATTS	REFLECTIVE GLOBE HPS POST TOP WITH 0-10V. DIMMING TYPE V DISTRIBUTION	VISCO #VI-C-C2-F/12'-70HPS-RDB50-V-22C-24V-BA-GFI-AB

APPROVED BY THE CITY OF TURLOCK

8/4/16

MICHAEL CAPITCOCK P.E. DATE
DIRECTOR OF DEVELOPMENT SERVICES
CITY ENGINEER, RCE 52694

1 SITE ELECTRICAL PLAN

SCALE: 1"=10'-0"

N

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795 FOLSOM ST., 1ST FLOOR
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CONSULTING ELECTRICAL ENGINEERS

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REGISTERED PROFESSIONAL ENGINEER KEVIN L. PEZZONI NO. 16269 ELECTRICAL STATE OF CALIFORNIA

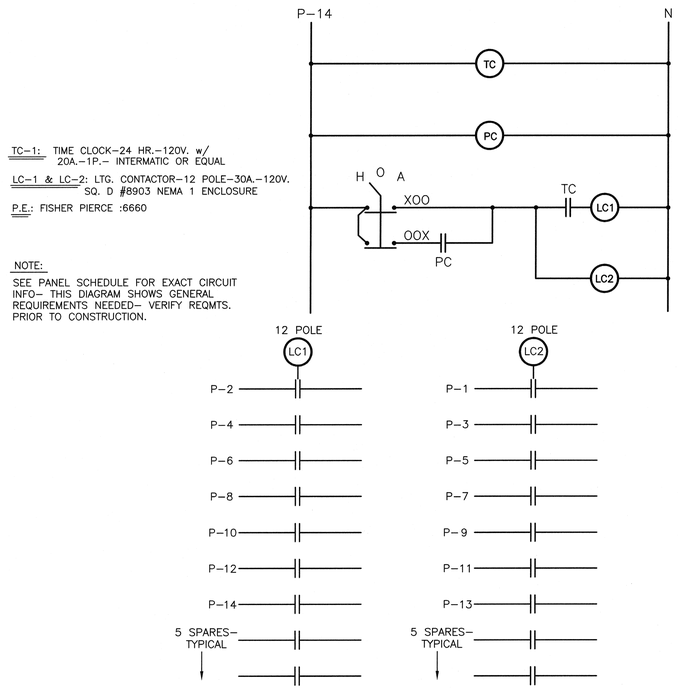
ELECTRICAL PLAN

PARKING LOT RECONSTRUCTION

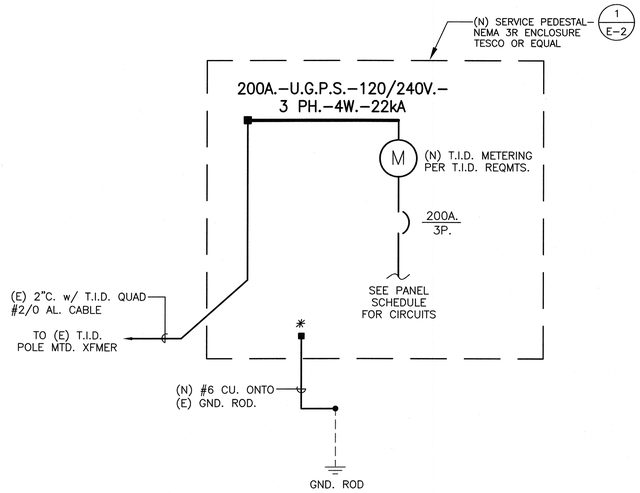
CAPITAL PROJECT #15-57
CITY OF TURLOCK

DRAWN BY	CAL
CHECK BY	KLP
SCALE	AS SHOWN
DATE	01/04/16
JOB	15-493
SHEET NO.	E-1
OF	SHEETS

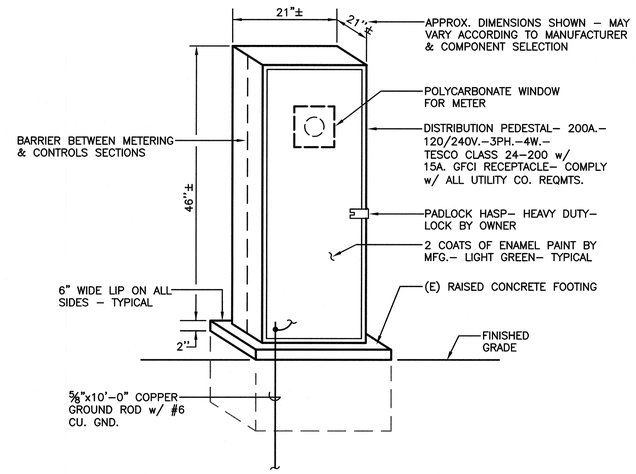
08/02/16 1:41:50 PM F:\15\493 CITY OF TURLOCK PARKING LOT RECONSTRUCTION\ENGR\SHEETS\493_SITEELECT.DWG KPezzoni



3 LIGHTING CONTROLS DIAGRAM
SCALE: NONE



2 SINGLE LINE DIAGRAM
SCALE: NONE



1 SERVICE PEDESTAL - TYPICAL
SCALE: N.T.S.

CIRCUIT/PANELBOARD SCHEDULE

PANEL: P — CENTER TAP DELTA — **LOCATION:** PEDESTAL
BUS RATING: 200 A. — **PHASE:** 3ø — **SCCR:** 22k
VOLTAGE: 120/240 V. — **WIRE:** 4 — **BUSSING:** Cu

CKT	DESCRIPTION	BRKR	TYPE	LOAD	A (va)	B** (va)	C (va)	LOAD	TYPE	BRKR	DESCRIPTION	CKT
1	(E) LTG CKT #1	20/1		1200	2400			1200		20/1G	(E) RECP CKT #2	2
3	(E) LTG CKT #3	20/1		1200			2400	1200		20/1G	(E) GFCI BRKR #4	4
5	(E) LTG CKT #5	20/1		1200	2400			1200		20/1G	(E) RECP CKT #6	6
7	(E) LTG CKT #7	20/1		1200			2400	1200		20/1G	(E) GFCI BRKR #8	8
9	(E) LTG CKT #9	20/1		1200	2400			1200		30/1	(E) T.W. RECP #10	10
11	(E) LTG CKT #11	20/1		1200			2400	1200		30/1	(E) T.W. RECP #12	12
13	POLE RECP #13	30/1		1200	1450			250		20/1	LTG CONTROLS	14
15	SPARE	30/1		340			440	100		20/1	(E) IRRIG CONTROL	16
17	SPARE	30/1			180			180		20/1	PEDESTAL RECP	18
19	SPARE	20/1					500	500		20/1	(N) PARKING LTG	20
21	SPARE	20/1			3600			3600		40/2	(N) EV CHARGER	22
23						3600		3600		/		24
25	SPARE	20/1G					3600	3600		40/2	(N) EV CHARGER	26
27	SPARE	40/2		3600	7200			3600		/		28
29		/		3600		7200		3600		40/2	SPARE	
31	SPARE	20/1G					3600	3600		/		
					19630	10800	15340					

CONTINUOUS (C):	57213 VA
NON-CONTINUOUS (N):	0 VA
RECEP. (R):	0 VA
MOTOR (M) OR (M1):	0 VA
LIGHTING (L):	0 VA
KITCHEN >1750W (K):	0 VA

MCB: YES
MLO: -

MAX. PHASE ø125% =	204.5 A.
DEMAND TOTAL =	57.2 kVA
=	137.6 A.
ø125% =	172.0 A.

DEMAND CALC. PER ART 220

** DENOTES HIGH PHASE
G* DENOTES GFP CIRCUIT BREAKER

APPROVED BY THE CITY OF TURLOCK
8/9/16
MICHAEL G. PITCOCK P.E. — DATE
DIRECTOR OF DEVELOPMENT SERVICES
CITY ENGINEER, RCE 52694

REVISIONS

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REGISTERED PROFESSIONAL ENGINEER
KEVIN L. PEZZONI
NO. 15769
DEC 31, 2016
ELECTRICAL
STATE OF CALIFORNIA

ELECTRICAL PLAN
PARKING LOT RECONSTRUCTION
CAPITAL PROJECT #15-57
CITY OF TURLOCK

DRAWN BY	CAL
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