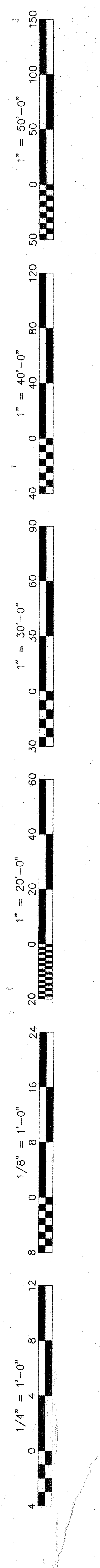

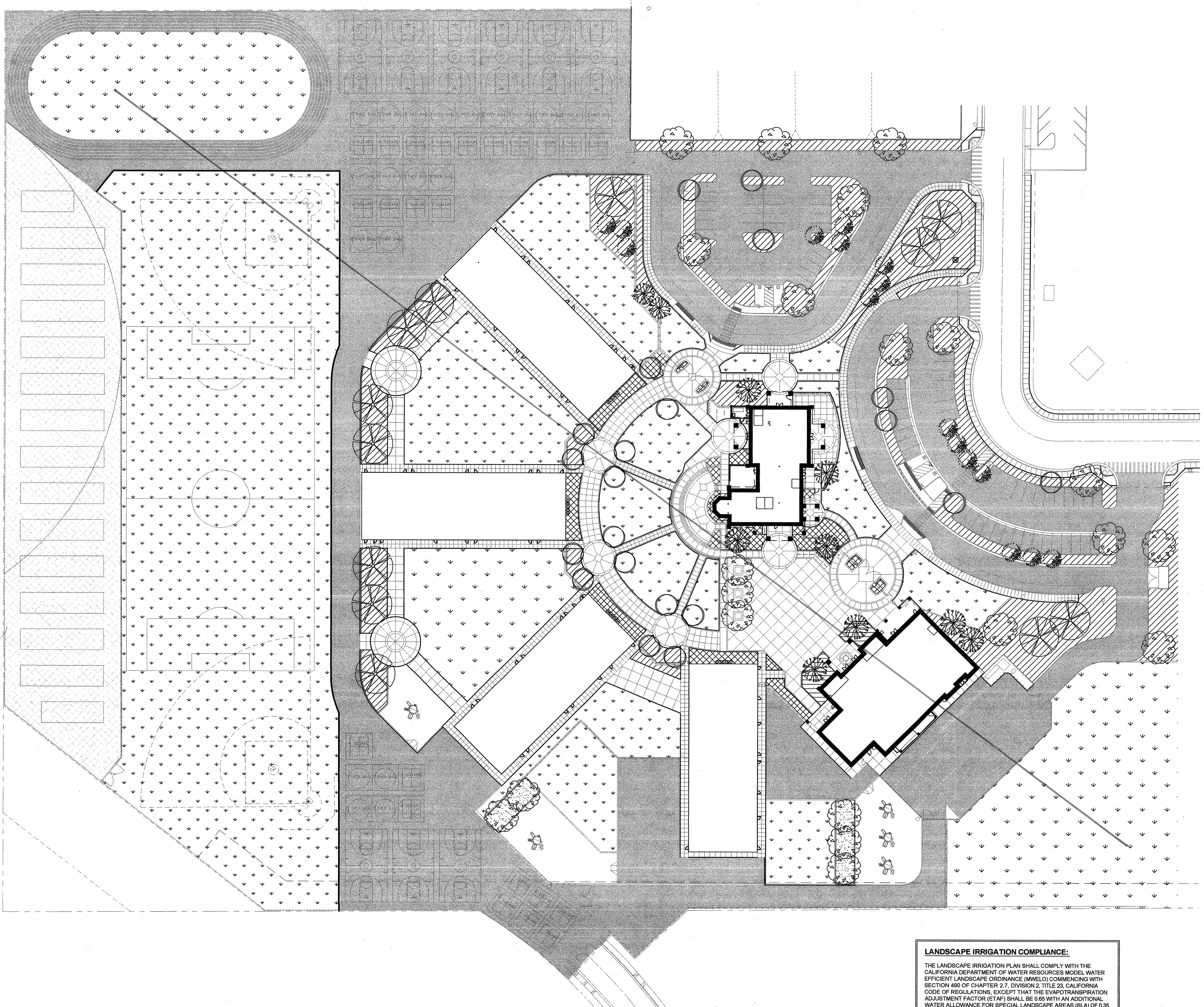

LANDSCAPE IRRIGATION COMPLIANCE:

THE LANDSCAPE IRRIGATION PLAN SHALL COMPLY WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) COMMENCING WITH SECTION 490 OF CHAPTER 2.7, DIVISION 2, TITLE 23, CALIFORNIA CODE OF REGULATIONS, EXCEPT THAT THE EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) SHALL BE 0.65 WITH AN ADDITIONAL WATER ALLOWANCE FOR SPECIAL LANDSCAPE AREAS (SLA) OF 0.35 IN ACCORDANCE WITH THE 2016 CAL GREEN BUILDING STANDARDS CODE PARAGRAPH 5.304.6.

LANDSCAPE PLAN

INCREMENT 2

SCALE: 1" = 40'

LANDSCAPE NOTES

1. IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TRESS OR PLANTS, GRADE DIFFERENCES OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.
2. ALL TREES AND SHRUBS SHALL BE OF CLASS A QUALITY WITHOUT PESTS, DISEASE OR DAMAGE, SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT GIRDLING ROOTS OR EXCESSIVE TOP GROWTH, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1).
3. NOTIFY THE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND TREE AND/OR SHRUB PLANTING FOR APPROVAL OF THE PLANT LAYOUT AND PLANT QUALITY. PLANT LOCATIONS SHALL BE ADJUSTED PER THE ARCHITECT'S DIRECTION TO AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, PLANTINGS OR UTILITIES, LIGHT POLES, OR TO MEET THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS, PLANTED TRESS AND/OR SHRUBS.
4. PLANT QUANTITIES ARE PROVIDED FOR BIDDING CONVENIENCE ONLY. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREA SHOWN ON THE PLAN AT THE SPECIFIED TRIANGULAR SPACING.
5. WHERE GROUND COVER PLANTS ARE SHOWN AT A SPECIFIED SPACING, THE GROUND COVER PLANTING CONTINUES UNDERNEATH THE TALLER SHRUBS AND TREES AS SHOWN IN THE PLANTING DETAILS. DO NOT PLANT GROUND COVER IN SHRUB OR TREE WATERING BASINS.
6. ALL TREES LOCATED WITHIN 5 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED. UNLESS OTHERWISE SPECIFIED, INSTALL A 12 FOOT LONG x 24 INCH DEEP LINEAR POLYETHYLENE BARRIER AT THE EDGE OF PAVMENT/STRUCTURE, CENTERED ON THE TREE TRUNK AS SHOWN IN THE PLANTING DETAILS.
7. REMOVE NURSERY STAKES FROM TREES AFTER TREE STAKING OR GUYING AS SHOWN IN THE DETAILS.
8. INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM 4 FOOT DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.
9. THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE LANDSCAPE ARCHITECT. TREES HEADED BACK WITHOUT INTACT SCAFFOLDING BRANCH STRUCTURE OR IN ROOT-BOUND CONTAINERS SHALL BE REJECTED.
10. SUBMIT REPRESENTATIVE SOIL SAMPLES OF NATIVE AND PROPOSED IMPORT, IF NEEDED, PLANTING TOPSOIL TO A SOIL LAB FOR HORTICULTURAL ANALYSES AND FERTILITY RECOMMENDATIONS. SEE THE LANDSCAPE PLANTING SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
11. PROVIDE SANDY LOAM TOPSOIL PER SPECIFICATION IN ALL RAISED PLANTERS AND WHERE IMPORT TOPSOIL IS REQUIRED. NATIVE SITE SOIL MAY BE USED IN RAISED PLANTERS ONLY WHEN THE NATIVE SITE SOIL MEETS THE CRITERIA FOR SANDY LOAM TOPSOIL AS DETERMINED BY SOIL ANALYSIS.
12. PRIOR TO SOIL CONDITIONING, RIP IN FOUR DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING, ALL TURFGRASS AREAS TO A 12 INCH DEPTH, AND SHRUB/GROUND COVER AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP 6 INCHES PER THE LANDSCAPE PLANTING SPECIFICATIONS.
13. UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS 1 INCH DIAMETER AND GREATER FROM THE TOP TWO INCHES OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.05 FOOT TOLERANCE. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.
14. OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS OPERATIONAL AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.
15. INSTALL A 3 INCH DEPTH OF THE SPECIFIED WOOD MULCH IN ALL PLANTING AREAS EXCEPT FOR TURFGRASS AREAS, SLOPES 3H:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE PLAN. AREAS PLANTED WITH FLATS SHALL HAVE A MINIMUM OF 2 INCH MULCH DEPTH. INSTALL A MINIMUM 3 FOOT RADIUS OF 2 INCH DEEP WOOD MULCH AT THE BASE OF EXISTING TREES LOCATED IN NEW TURFGRASS AREAS.
16. CONTRACTOR SHALL MAINTAIN THE NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE.
17. IRRIGATION NOTE:
IRRIGATION SHALL BE IN ACCORDANCE WITH SPECIFICATION 3284 - 00.

LEGEND

⊛	QUERCUS LOBATA VALLEY OAK 24" BOX
✿	PISTACIA CHINENSIS CHINESE PISTACHE 24" BOX
○	LAURUS NOBILIS SARATOGA BAY - 24"
✺	LAGERSTROEMIA INDICA 'NATCHEZ' WHITE CREPE MYRTLE
●●	CERCIS CANADENSIS 'OKLAHOMA' E. REDBUD
⦶⦶⦶	COMPACT ITALIAN CYPRESS CUPRESSUS SEMPERVIRENS 'TINY TOWER'

PROVIDE AND PLACE A 3" DEEP LAYER OF WOOD TOP DRESS MULCH :

▨	UNDERSTORY/SUN MIX : ROSMARINUS X 'HUNTINGTON CARPET' OLEA EUROPA - 'LITTLE OLLIE' ACACIA/REDOLENS - 'DESERT CARPET' 1 GAL - SWATH PLANTING
▦	FOCAL/SUN MIX : ROSA 'FLOWER CARPET' HEMEROCALIS X - 'HAPPY RETURNS' LOROPETALUM CHINENSE - 'PEACK' 1 GAL - MASS PLANT BY HEIGHT
↓	CYNODON DACTYLON HYBRID BERMUDA - STOLONS
⁘	3" DECOMPOSED GRANITE OR WOOD TOP DRESS MULCH AT EARLY ELEMENTARY

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Phone (559) 436–0881 Fax (559) 436–0887 E–Mail: design@somam.com
www.integrateddesigns.com

Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:

Sheet Title:
LANDSCAPE PLAN

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date:	Date:	Designer:	DR:	PC:
01–31–18	05/31/18	--	--	PC INITIALS

Agency Approval Stamp:

FILE #: 15–6
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03–118394
AC ✓ FLS ✓ SS ✓
DATE 06 - 22 - 18
TRACKING #: 63321–300

Stamp(s):

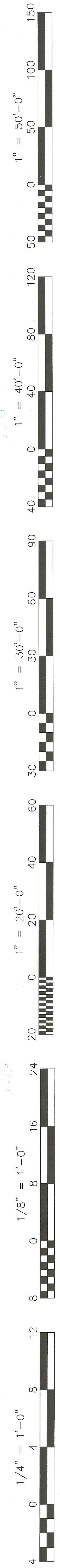
CURTIS E. FLYNN
No. C 28966
REN. 5-31-19

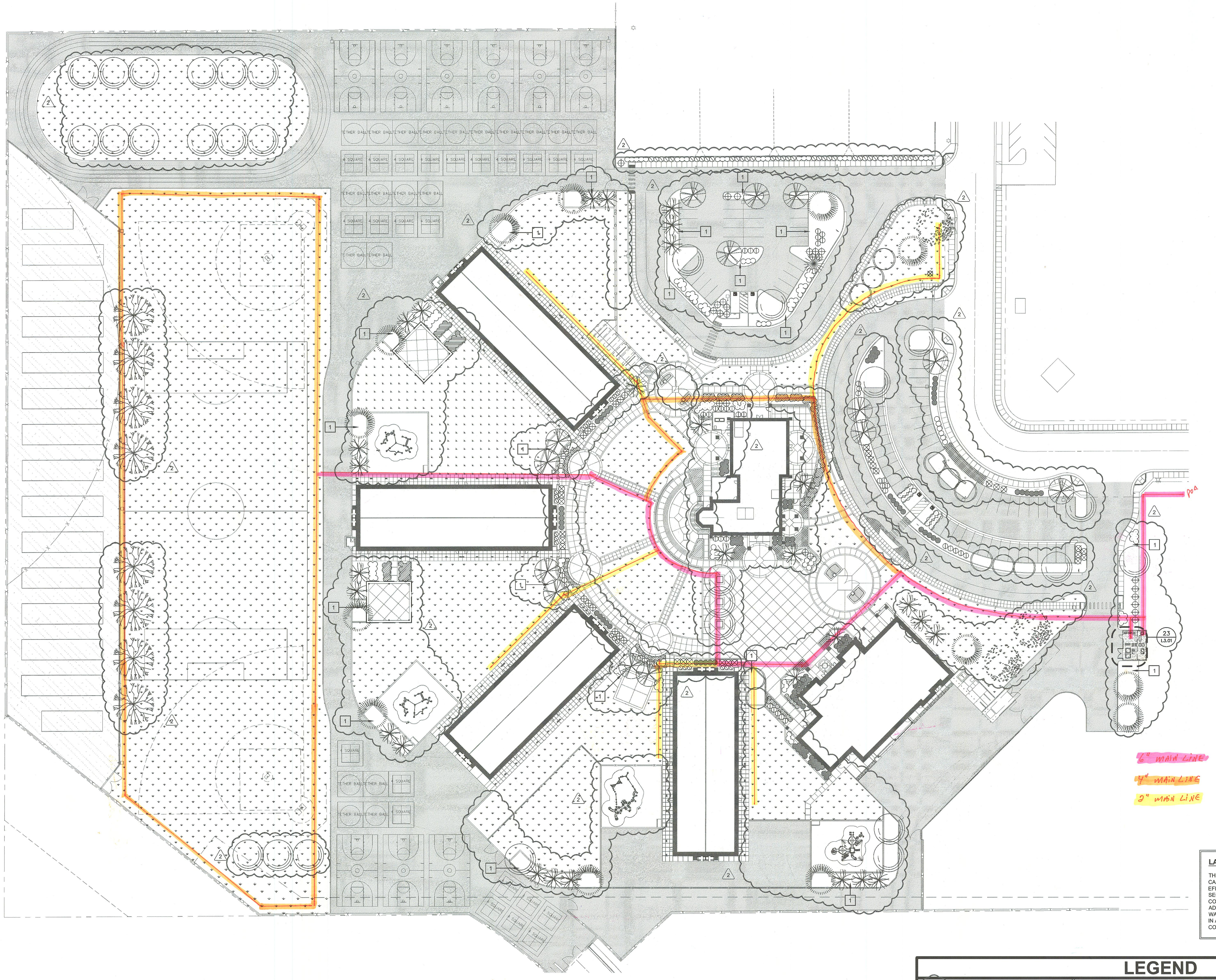
Job No.: **5262**

Sheet No.: **L1.01**

Release: -

G:\2017frs\17-5262 BCSD New Elementary\Sheets\L1.01 LANDSCAPE PLAN.dwg RICHARD DELLANINI





6" MAIN LINE
4" MAIN LINE
2" MAIN LINE

LANDSCAPE PLAN
INCREMENT 2

SCALE: 1" = 40'

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17. IRRIGATION NOTE:
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LANDSCAPE IRRIGATION COMPLIANCE:

THE LANDSCAPE IRRIGATION PLAN SHALL COMPLY WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) COMMENCING WITH SECTION 490 OF CHAPTER 2.7, DIVISION 2, TITLE 23, CALIFORNIA CODE OF REGULATIONS, EXCEPT THAT THE EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) SHALL BE 0.65 WITH AN ADDITIONAL WATER ALLOWANCE FOR SPECIAL LANDSCAPE AREAS (SLA) OF 0.35 IN ACCORDANCE WITH THE 2016 CAL GREEN BUILDING STANDARDS CODE PARAGRAPH 5.304.6.

LEGEND

- QUERCUS LOBATA VALLEY OAK - 60" BOX 2
- RED MAPLE ACER RUBRUM 'OCTOBER GLORY - 60" BOX
- DEODAR CEDAR CEDRUS DEODARA - 60" BOX
- CREPE MYRTLE LAGERSTROEMIA INDICA 'DYNAMITE RED' - 48" BOX 2
- CHINESE PISTACHE - PISTACIA CHINENSIS - 60" BOX 2
- SWEET BAY LAURUS NOBILIS - SARATOGA BAY - 48" BOX 2
- EASTERN REDBUD CERCIS CANADENSIS 'OKLAHOMA' - 36" BOX 2
- COMPACT ITALIAN CYPRESS - CUPRESSUS SEMPERVIRENS 'TINY TOWER' 24" BOX 2
- ROSE OF SHARON - HIBISCUS SYRIACUS 'WHITE CHIFFON' 5 GALLON
- ESPERANZA - TECOMA STANS 'BELLS OF FIRE' 5 GALLON
- CHINESE FRINGE FLOWER - LOROPETALUM CHINENSE 'JAZZ HANDS' VARIEGATED 5 GALLON
- DWARF CRAPE MYRTLE - LAGERSTROEMIA 'CHERRY DAZZLE' VARIETIES 5 GALLON
- PLUMBAGO - PLUMBAGO AURICULATA 'ROYAL CAPE' 5 GALLON - TRAIN TO ADJACENT WALL
- DWARF OLIVE - OLEA EUROPA 'LITTLE OLLIE' 5 GALLON
- ▨ DIETES IRIDIOIDES 'AFRICAN IRIS' 1 GAL - AT 18" o.c. STAGGERED
- ▩ DWARF DAYLILY HEMEROCALIS X - 'HAPPY RETURNS' 1 GAL - AT 18" o.c. STAGGERED
- ░ JUNIPERUS HORIZONTALIS TRAILING JUNIPER- 'BLUE RUG' 1 GAL - AT 24" o.c. STAGGERED
- ROSMARINUS OFFICINALIS PROSTRATE ROSEMARY- 'HUNTINGTON CARPET' 1 GAL - AT 24" o.c. STAGGERED
- "VALLEY TURF MIX"
- 1 NO GROUND COVER IN THIS AREA

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Revision:	Revision Description:	Rev. Date:
2	ADDENDUM 2	08.24.18

Revision:	Revision Description:	Rev. Date:

Sheet Title:
LANDSCAPE PLAN

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01–31–18
Date: 08/31/18
Designer: --
DR: --
PC: PC INITIALS

Agency Approval Stamp:

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OFFICE OF REGULATION SERVICES
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DATE______________
TRACKING #: 63321–300

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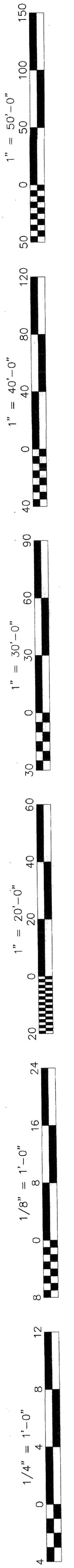
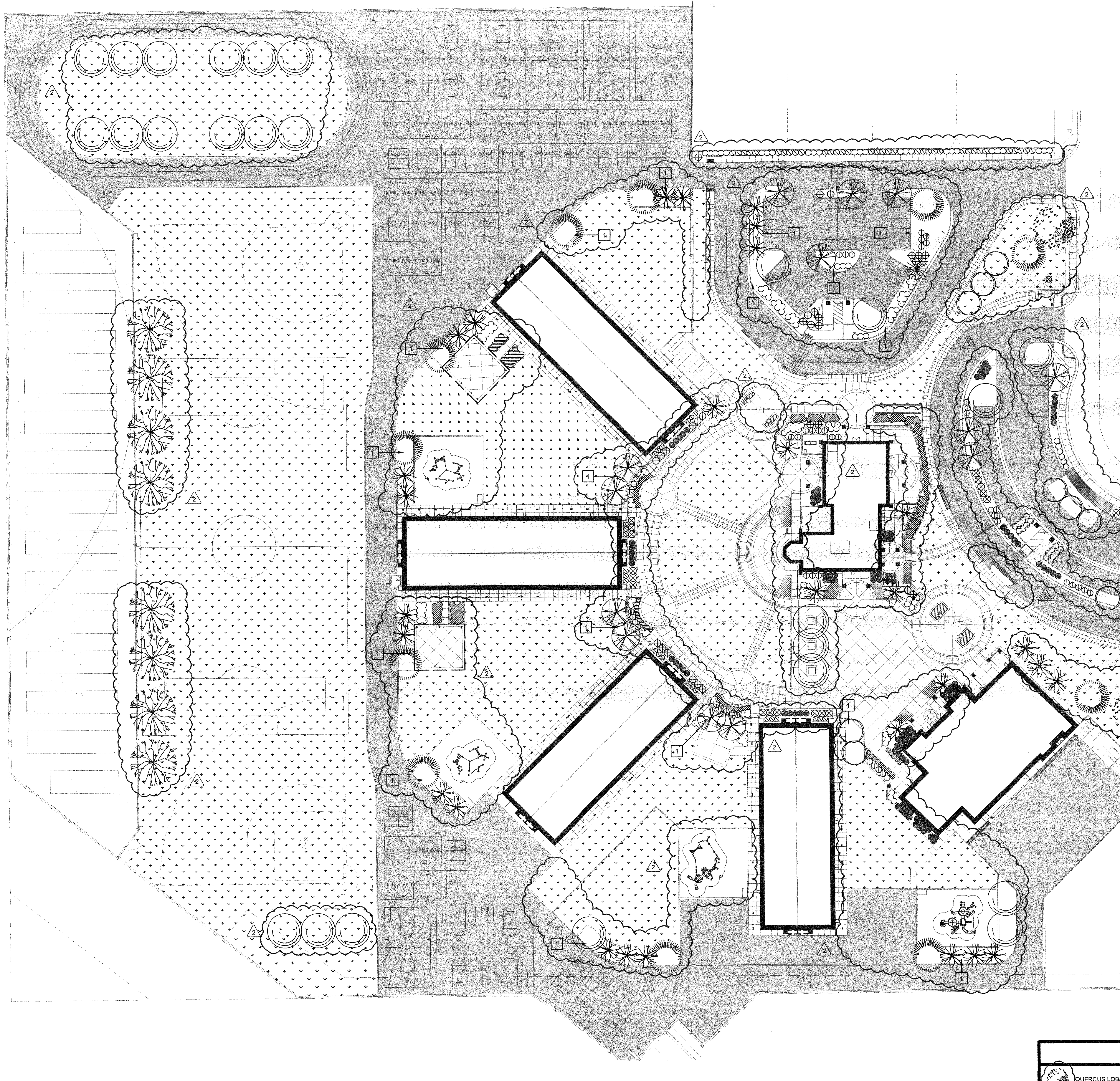
CURTIS E. FLYNN
No. C 28966
REN. 5-31-19

Job No.: 5262

Sheet No.: L1.01

Release: - ADDENDUM #2





LANDSCAPE PLAN

INCREMENT 2

SCALE: 1" = 40'

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LEGEND

2

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- EASTERN REDBUD CERCIS CANADENSIS 'OKLAHOMA' - 36" BOX 2
- COMPACT ITALIAN CYPRESS - CUPRESSUS SEMPERVIRENS 'TINY TOWER' 24" BOX 2
- ROSE OF SHARON - HIBISCUS SYRIACUS 'WHITE CHIFFON' 5 GALLON
- ESPERANZA - TECOMA STANS 'BELLS OF FIRE' 5 GALLON
- CHINESE FRINGE FLOWER - LOROPETALUM CHINENSE 'JAZZ HANDS' VARIEGATED 5 GALLON
- DWARF CRAPE MYRTLE - LAGERSTROEMIA 'CHERRY DAZZLE' VARIETIES 5 GALLON
- PLUMBAGO - PLUMBAGO AURICULATA 'ROYAL CAPE' 5 GALLON - TRAIN TO ADJACENT WALL
- DWARF OLIVE - OLEA EUROPA 'LITTLE OLLIE' 5 GALLON
- ▨ DIETES IRIDIOIDES 'AFRICAN IRIS' 1 GAL - AT 18" o.c. STAGGERED
- ▩ DWARF DAYLILY HEMEROCALIS X - 'HAPPY RETURNS' 1 GAL - AT 18" o.c. STAGGERED
- JUNIPERUS HORIZONTALIS TRAILING JUNIPER- 'BLUE RUG' 1 GAL - AT 24" o.c. STAGGERED
- ROSMARINUS OFFICINALIS PROSTRATE ROSEMARY- 'HUNTINGTON CARPET' 1 GAL - AT 24" o.c. STAGGERED
- "VALLEY TURF MIX"
- 1 NO GROUND COVER IN THIS AREA

G:\2017frs\17-5262 BCSD New Elementary\Sheets\L1.01 LANDSCAPE PLAN.dwg RICHARD DELLANINI

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Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:
2	ADDENDUM 2	08.24.18			

Sheet Title:
LANDSCAPE PLAN

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date:	Date:	Designer:	DR:	PC:
01–31–18	08/31/18	--	--	PC INITIALS

Agency Approval Stamp:

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03–118394
AC SC FLS SH SS TN
DATE 4/8/19
TRACKING #: 63321–300
ADDENDUM #2

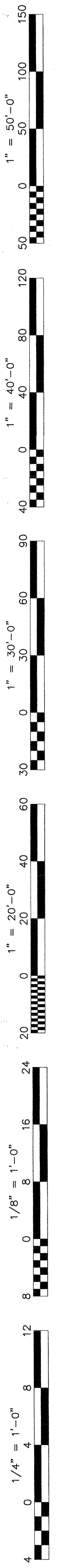
Stamp(s): (27 DRWGS)

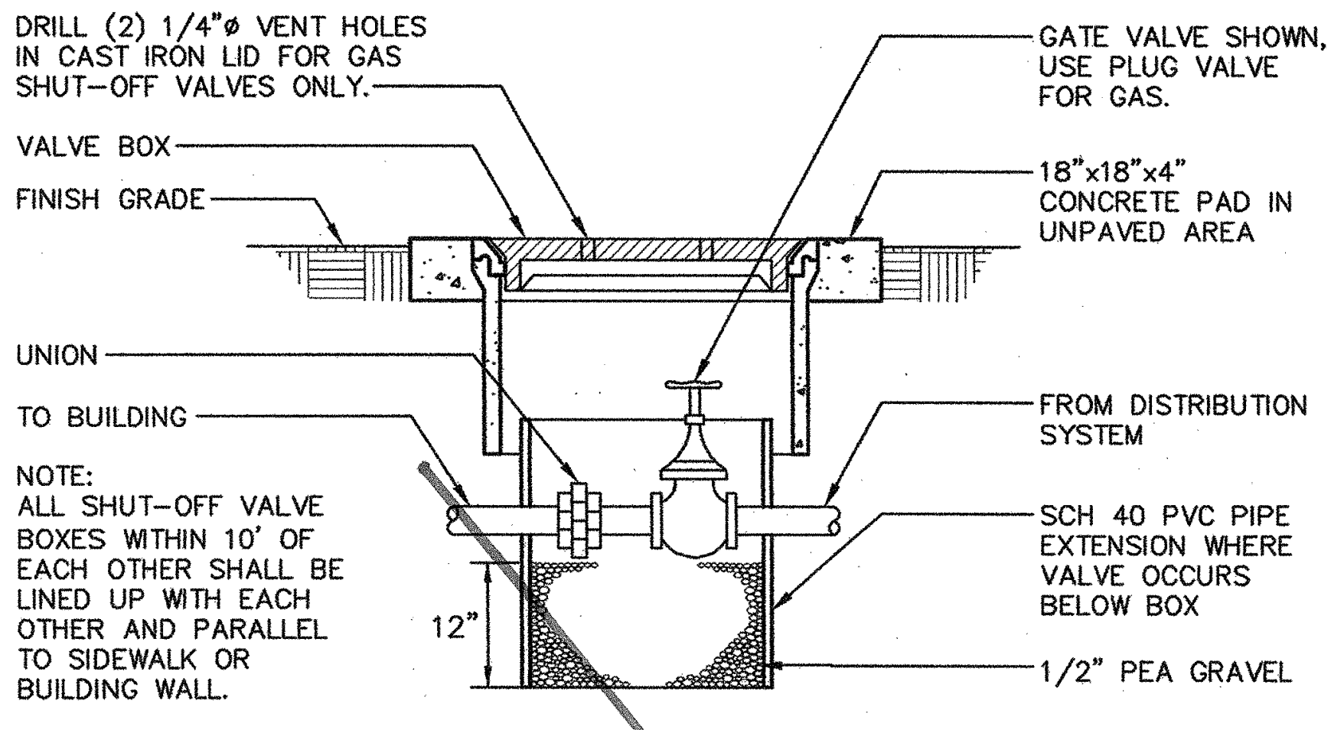
LICENSED ARCHITECT
CURTIS E. FLYNN
No. C 28966
REN. 5-31-19
STATE OF CALIFORNIA

Job No.: **5262**

Sheet No.: **L1.01**

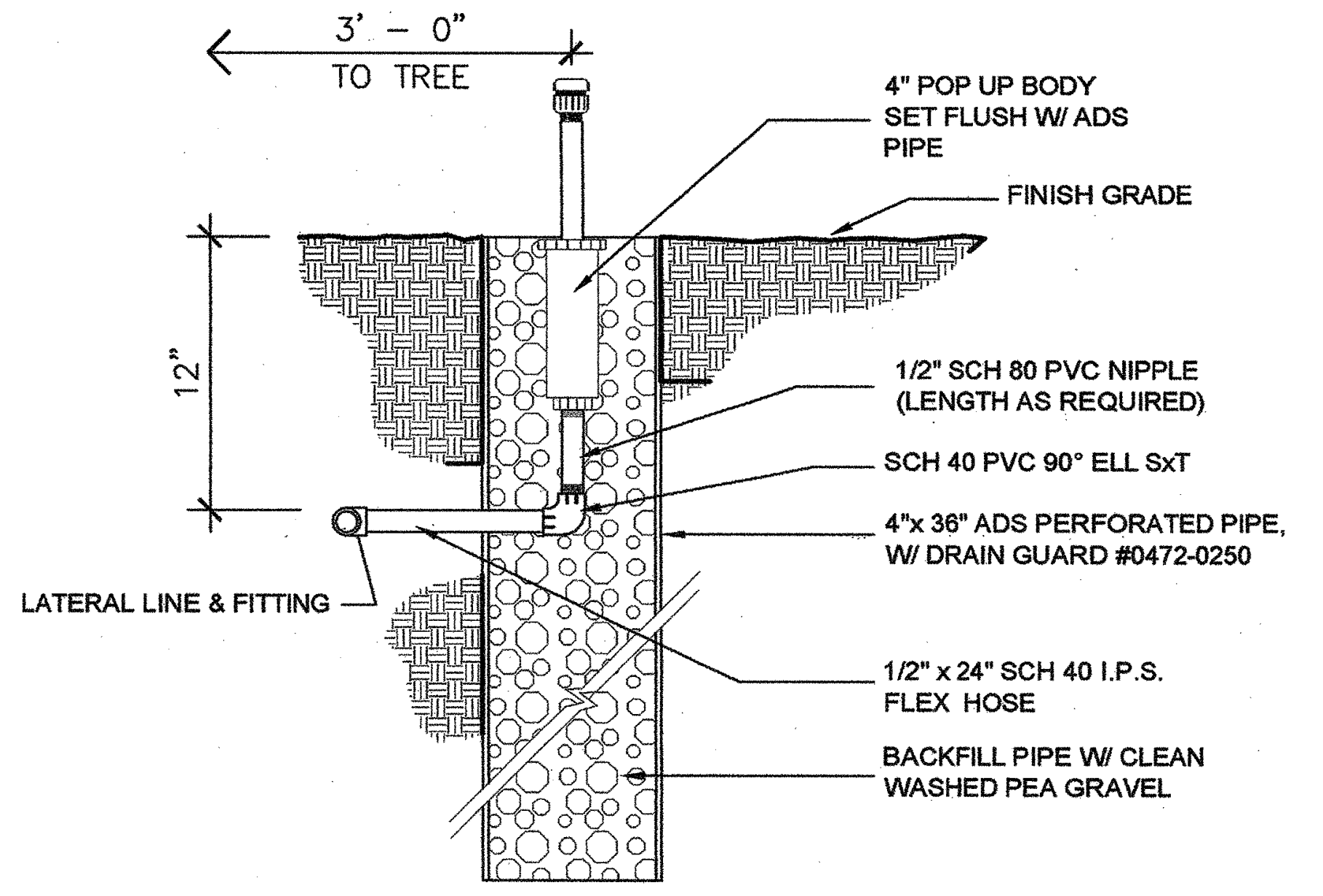
Release: - ADDENDUM #2


150
100
50
0
50
1" = 50'-0"
120
80
40
0
40
1" = 40'-0"
90
60
30
0
30
1" = 30'-0"
60
40
20
0
20
1" = 20'-0"
24
16
8
0
8
1/8" = 1'-0"
12
8
4
0
4
1/4" = 1'-0"

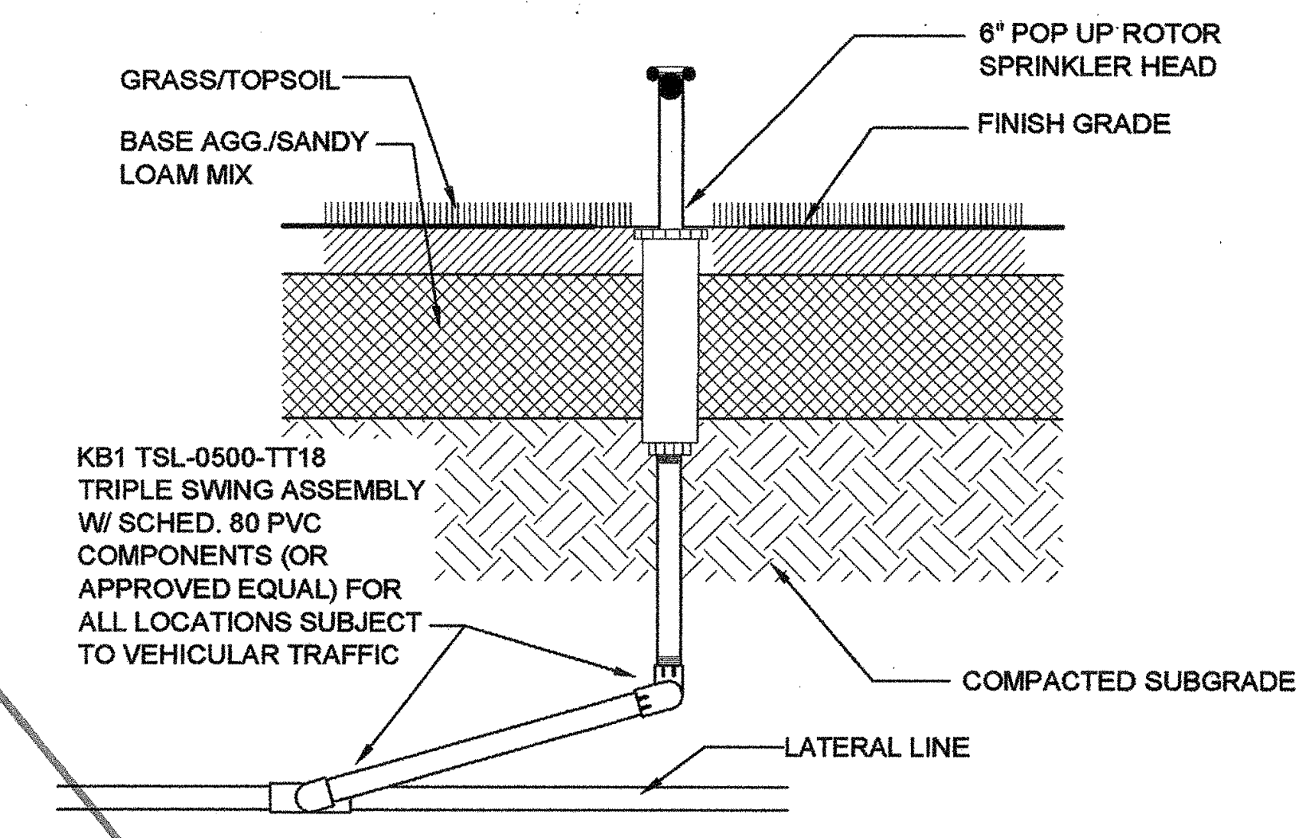

DRILL (2) 1/4"ø VENT HOLES IN CAST IRON LID FOR GAS SHUT-OFF VALVES ONLY.
VALVE BOX
FINISH GRADE
UNION
TO BUILDING
12"
GATE VALVE SHOWN, USE PLUG VALVE FOR GAS.
18"x18"x4" CONCRETE PAD IN UNPAVED AREA
FROM DISTRIBUTION SYSTEM
SCH 40 PVC PIPE EXTENSION WHERE VALVE OCCURS BELOW BOX
1/2" PEA GRAVEL

NOTE:
ALL SHUT-OFF VALVE BOXES WITHIN 10' OF EACH OTHER SHALL BE LINED UP WITH EACH OTHER AND PARALLEL TO SIDEWALK OR BUILDING WALL.

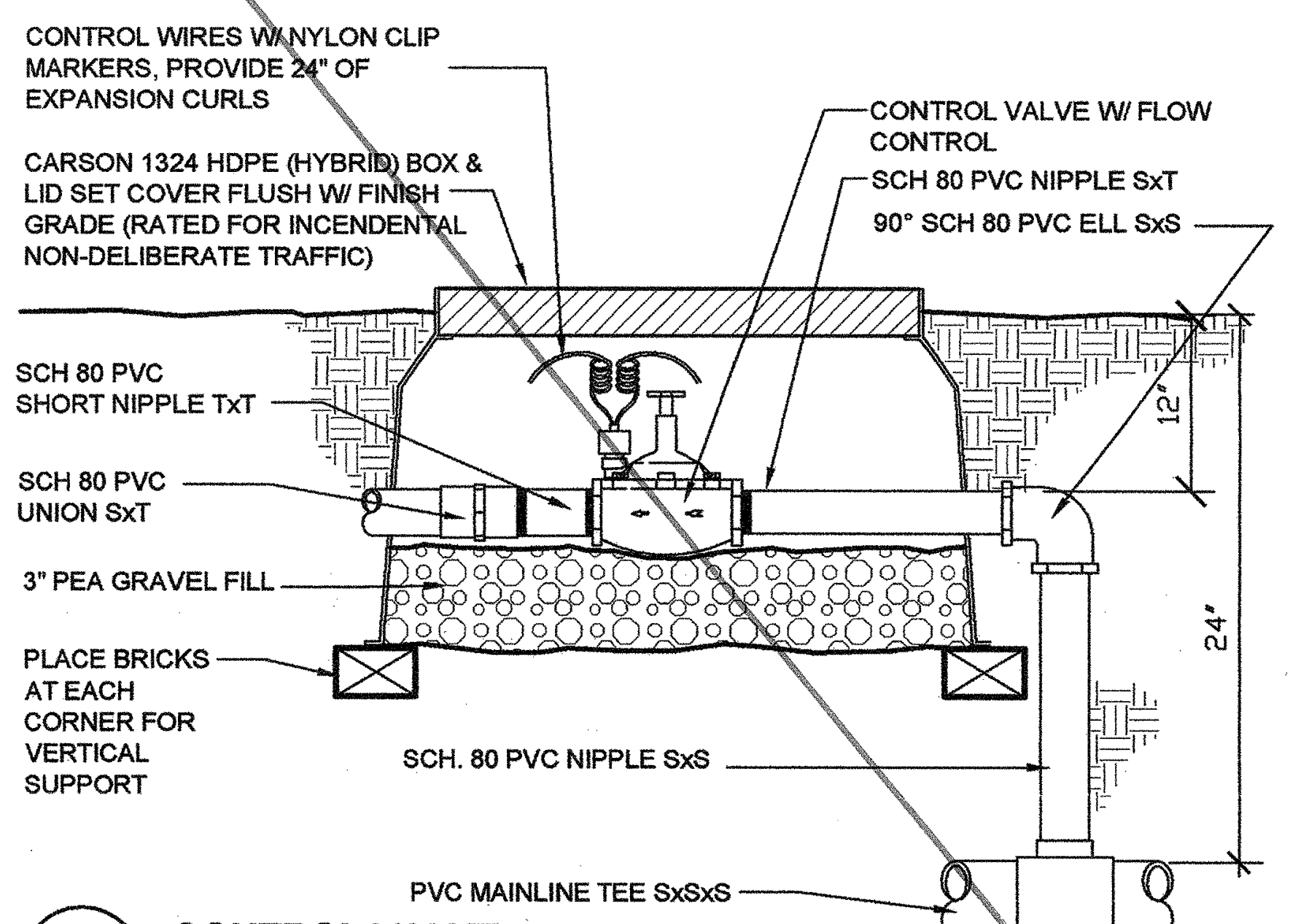
11 SHUT OFF VALVE IN BOX
L3.01
MPDU130-01
SCALE: N.T.S.


3' - 0"
TO TREE
12"
4" POP UP BODY SET FLUSH W/ ADS PIPE
FINISH GRADE
1/2" SCH 80 PVC NIPPLE (LENGTH AS REQUIRED)
SCH 40 PVC 90° ELL SxT
4"x 36" ADS PERFORATED PIPE, W/ DRAIN GUARD #0472-0250
LATERAL LINE & FITTING
1/2" x 24" SCH 40 I.P.S. FLEX HOSE
BACKFILL PIPE W/ CLEAN WASHED PEA GRAVEL

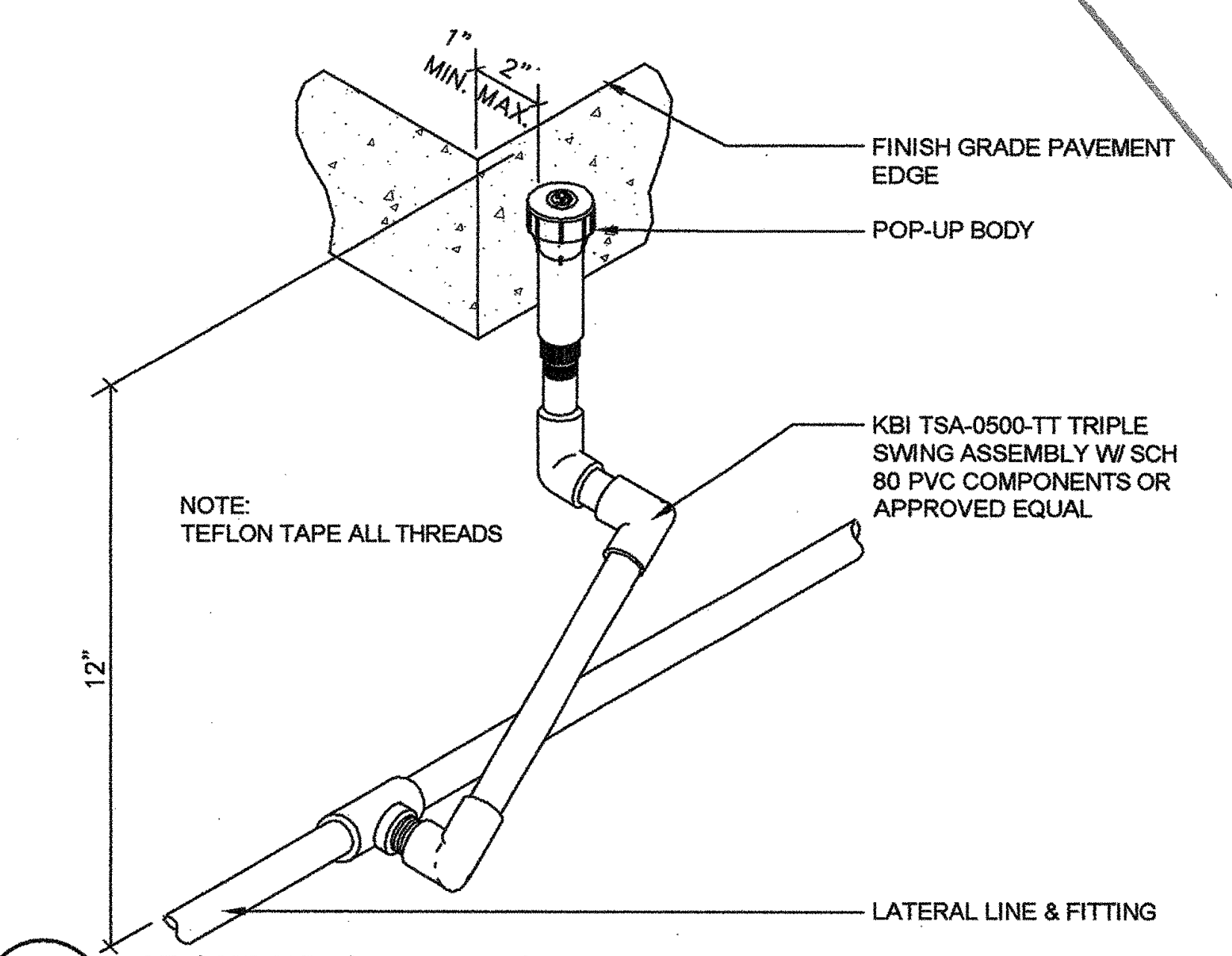
6 DEEP WATER PIPE FLOOD BUBBLER
L3.01
LDS100-06
SCALE: 1' = 1'-0"


GRASS/TOPSOIL
BASE AGG./SANDY LOAM MIX
6" POP UP ROTOR SPRINKLER HEAD
FINISH GRADE
KB1 TSL-0500-TT18 TRIPLE SWING ASSEMBLY W/ SCHED. 80 PVC COMPONENTS (OR APPROVED EQUAL) FOR ALL LOCATIONS SUBJECT TO VEHICULAR TRAFFIC
COMPACTED SUBGRADE
LATERAL LINE

7 POP-UP ROTOR BOX
L3.01
LDS100-06(2)
SCALE: 1' = 1'-0"

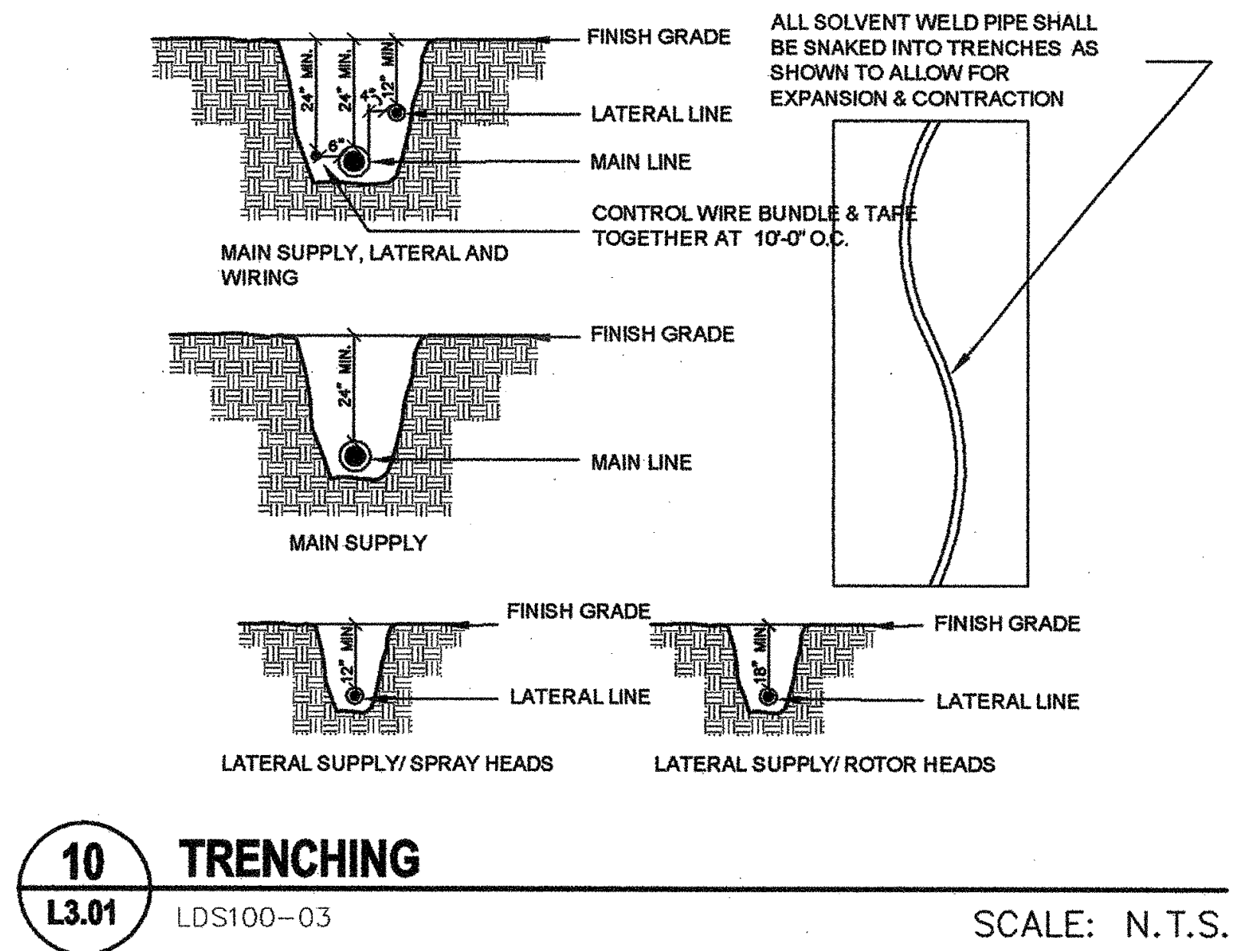

CONTROL WIRES W/ NYLON CLIP MARKERS, PROVIDE 24" OF EXPANSION CURLS
CARSON 1324 HDPE (HYBRID) BOX & LID SET COVER FLUSH W/ FINISH GRADE (RATED FOR INCENDENTAL NON-DELIBERATE TRAFFIC)
CONTROL VALVE W/ FLOW CONTROL
SCH 80 PVC NIPPLE SxT
90° SCH 80 PVC ELL SxS
SCH 80 PVC SHORT NIPPLE TxT
SCH 80 PVC UNION SxT
3" PEA GRAVEL FILL
PLACE BRICKS AT EACH CORNER FOR VERTICAL SUPPORT
SCH. 80 PVC NIPPLE SxS
PVC MAINLINE TEE SxSxS
12"
24"

8 CONTROL VALVE
L3.01
LDS100-01
SCALE: 1' = 1'-0"

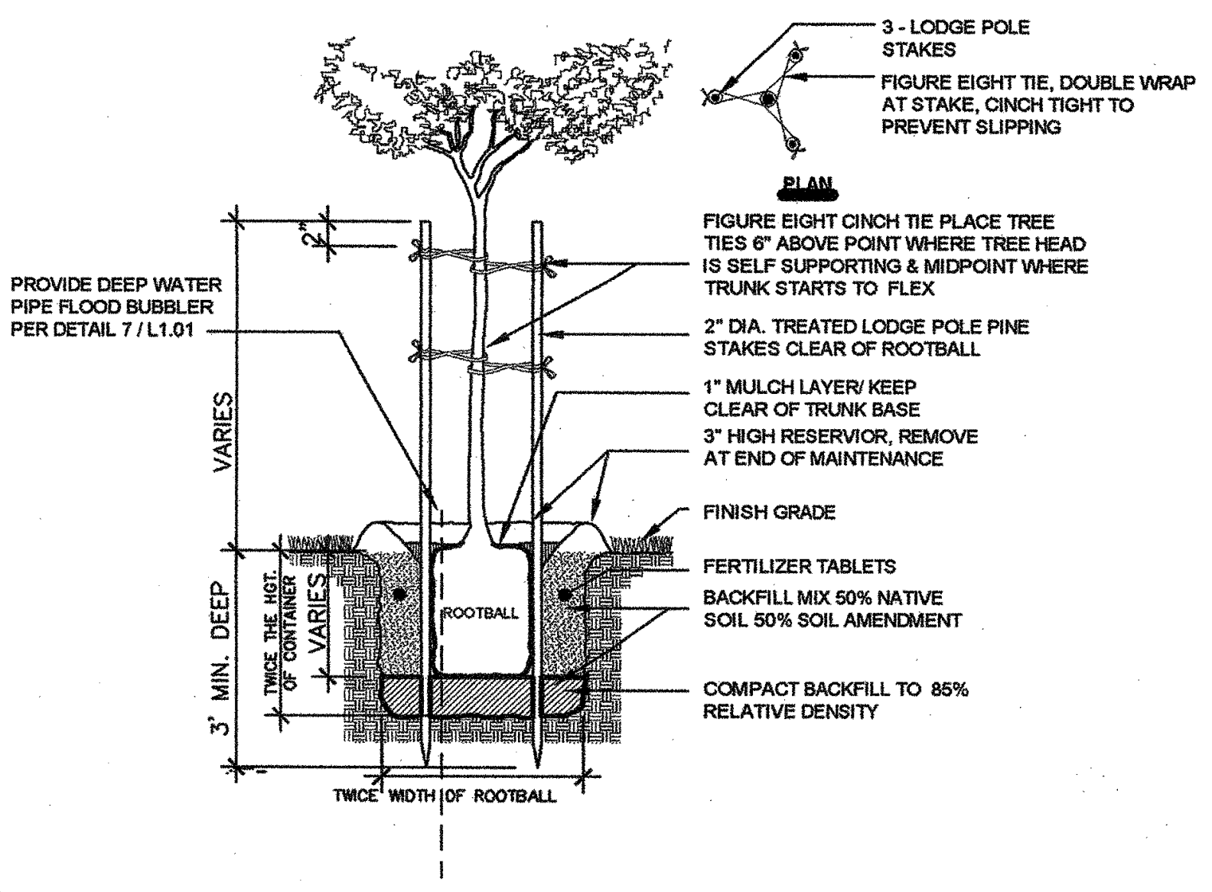

1" MIN.
2" MAX.
FINISH GRADE PAVEMENT EDGE
POP-UP BODY
KBI TSA-0500-TT TRIPLE SWING ASSEMBLY W/ SCH 80 PVC COMPONENTS OR APPROVED EQUAL
12"
LATERAL LINE & FITTING

NOTE:
TEFLON TAPE ALL THREADS

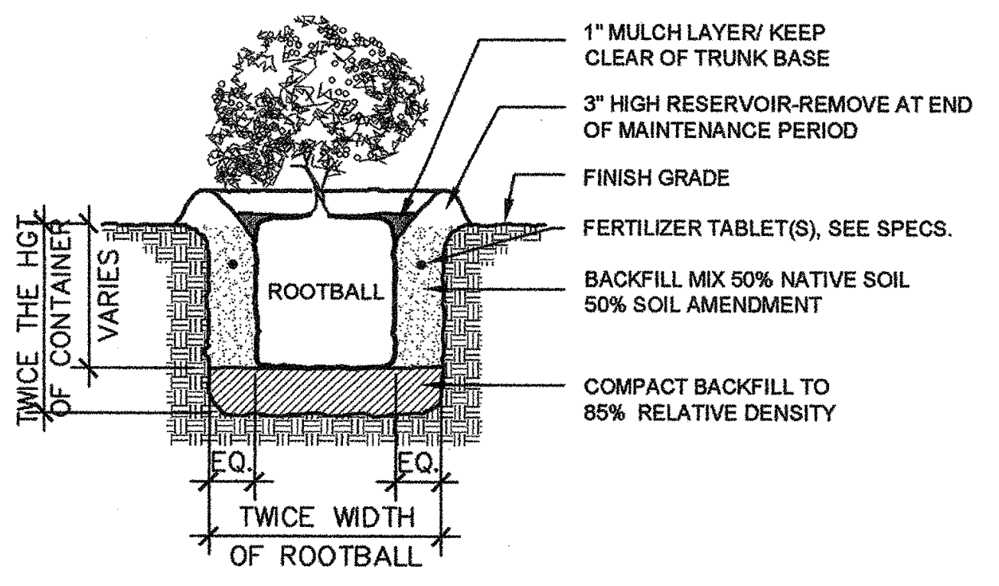
9 6" SHRUB SPRAY POP-UP
L3.01
LDS100-02
SCALE: 1' = 1'-0"


FINISH GRADE
LATERAL LINE
MAIN LINE
24" MIN.
24" MIN.
12" MIN.
6"
3"
CONTROL WIRE BUNDLE & TAPE TOGETHER AT 10'-0" O.C.
MAIN SUPPLY, LATERAL AND WIRING
FINISH GRADE
24" MIN.
MAIN LINE
MAIN SUPPLY
ALL SOLVENT WELD PIPE SHALL BE SNAKED INTO TRENCHES AS SHOWN TO ALLOW FOR EXPANSION & CONTRACTION
FINISH GRADE
12" MIN.
LATERAL LINE
LATERAL SUPPLY/ SPRAY HEADS
FINISH GRADE
18" MIN.
LATERAL LINE
LATERAL SUPPLY/ ROTOR HEADS

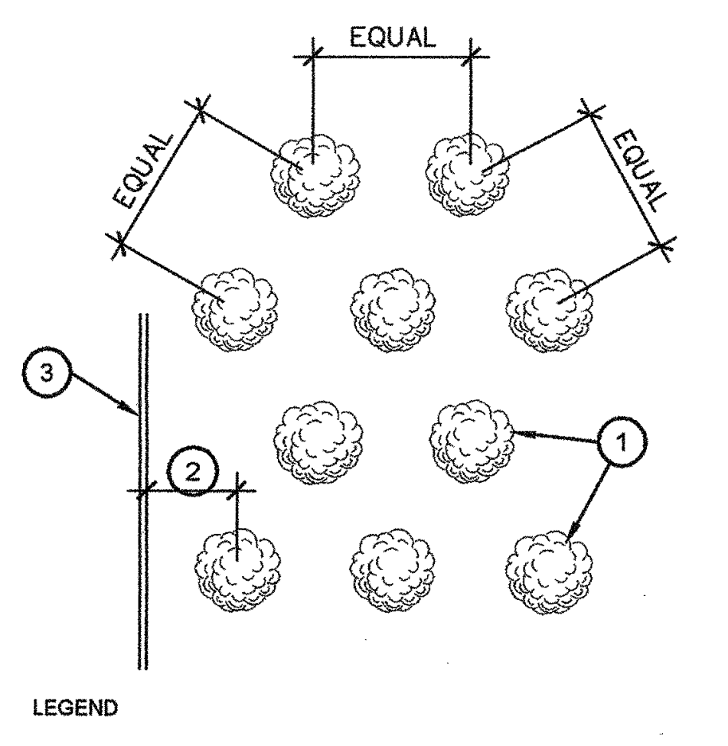
10 TRENCHING
L3.01
LDS100-03
SCALE: N.T.S.


3 - LODGE POLE STAKES
FIGURE EIGHT TIE, DOUBLE WRAP AT STAKE, CINCH TIGHT TO PREVENT SLIPPING
PLAN
PROVIDE DEEP WATER PIPE FLOOD BUBBLER PER DETAIL 7 / L1.01
2"
FIGURE EIGHT CINCH TIE PLACE TREE TIES 6" ABOVE POINT WHERE TREE HEAD IS SELF SUPPORTING & MIDPOINT WHERE TRUNK STARTS TO FLEX
2" DIA. TREATED LODGE POLE PINE STAKES CLEAR OF ROOTBALL
1" MULCH LAYER/ KEEP CLEAR OF TRUNK BASE
3" HIGH RESERVIOR, REMOVE AT END OF MAINTENANCE
FINISH GRADE
FERTILIZER TABLETS
BACKFILL MIX 50% NATIVE SOIL 50% SOIL AMENDMENT
COMPACT BACKFILL TO 85% RELATIVE DENSITY
VARIES
3' MIN. DEEP
TWICE THE HGT. OF CONTAINER
VARIES
ROOTBALL
TWICE WIDTH OF ROOTBALL

1 TREE PLANTING / TRIPLE STAKE
L3.01
LDS100-07
SCALE: 1' = 1'-0"


1" MULCH LAYER/ KEEP CLEAR OF TRUNK BASE
3" HIGH RESERVOIR-REMOVE AT END OF MAINTENANCE PERIOD
FINISH GRADE
FERTILIZER TABLET(S), SEE SPECS.
BACKFILL MIX 50% NATIVE SOIL 50% SOIL AMENDMENT
COMPACT BACKFILL TO 85% RELATIVE DENSITY
TWICE THE HGT OF CONTAINER
VARIES
ROOTBALL
EQ.
EQ.
TWICE WIDTH OF ROOTBALL

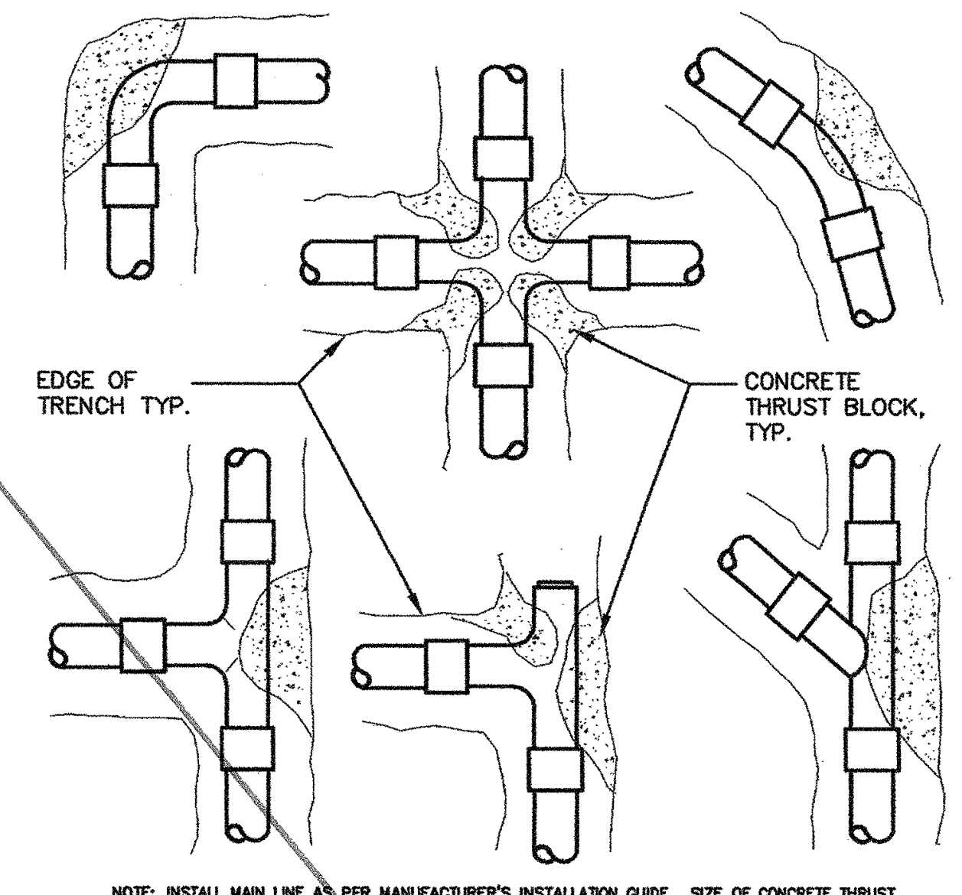
2 SHRUB PLANTING
L3.01
LDS100-08
SCALE: 1' = 1'-0"


EQUAL
EQUAL
EQUAL
③
②
①

LEGEND

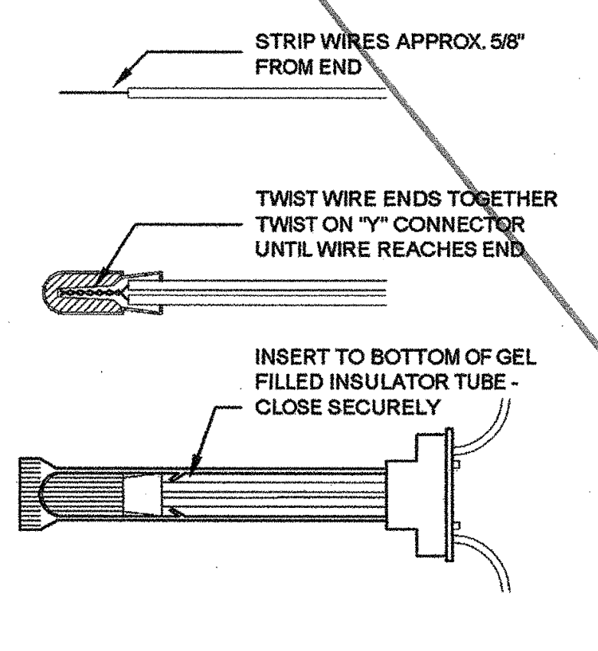
1. LOCATE PLANTS WITH EQUAL SPACING AS INDICATED ON PLAN (TRIANGULAR SPACING.)
2. 1/2 ON CENTER SPACING.
3. PAVING, BUILDING OR HEADER SHOWING PLANTING AREA LIMIT.

3 GROUND COVER PLANTING
L3.01
LDS100-09
SCALE: 1' = 1'-0"


EDGE OF TRENCH TYP.
CONCRETE THRUST BLOCK, TYP.

NOTE: INSTALL MAIN LINE AS PER MANUFACTURER'S INSTALLATION GUIDE. SIZE OF CONCRETE THRUST BLOCKS SHALL BE PER PIPE MANUFACTURE'S GUIDE LINES. MIN. 2 CU. FT. PER LOCATION

4 CONCRETE THRUST BLOCK/ TYP.
L3.01
LDS100-04
SCALE: N.T.S.


STRIP WIRES APPROX. 5/8" FROM END
TWIST WIRE ENDS TOGETHER TWIST ON "Y" CONNECTOR UNTIL WIRE REACHES END
INSERT TO BOTTOM OF GEL FILLED INSULATOR TUBE - CLOSE SECURELY

5 WIRE CONNECTORS
L3.01
LDS100-05
SCALE: N.T.S.

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Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:

Sheet Title:
LANDSCAPE DETAILS

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01–31–18
Date: 05/31/18
Designer: --
DR: --
PC: PC INITIALS

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
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DATE 06 22 18
TRACKING #: 63321–300

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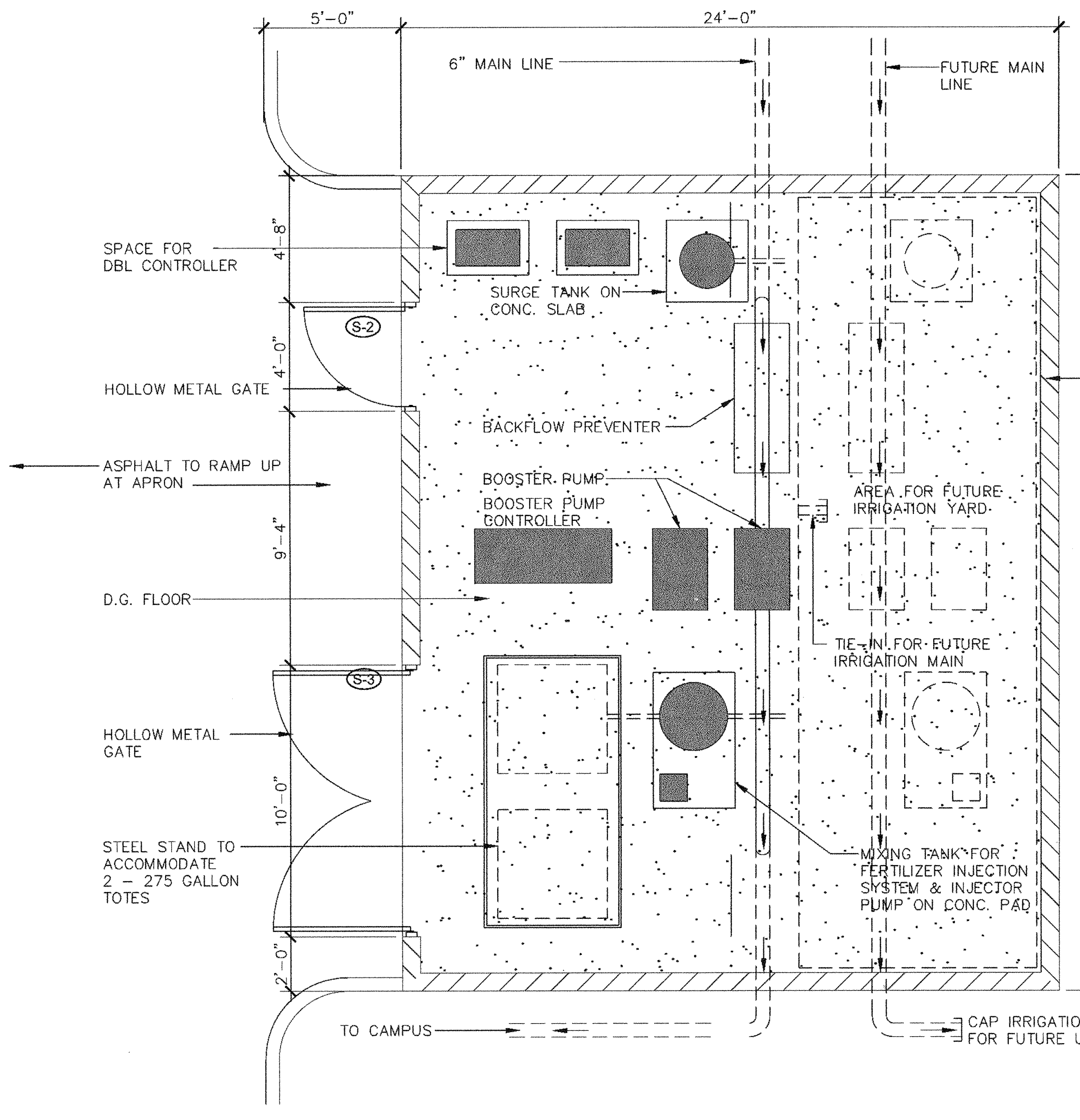
No. C 28966
REN. 5-31-19

Job No.: 5262

Sheet No.: L3.01

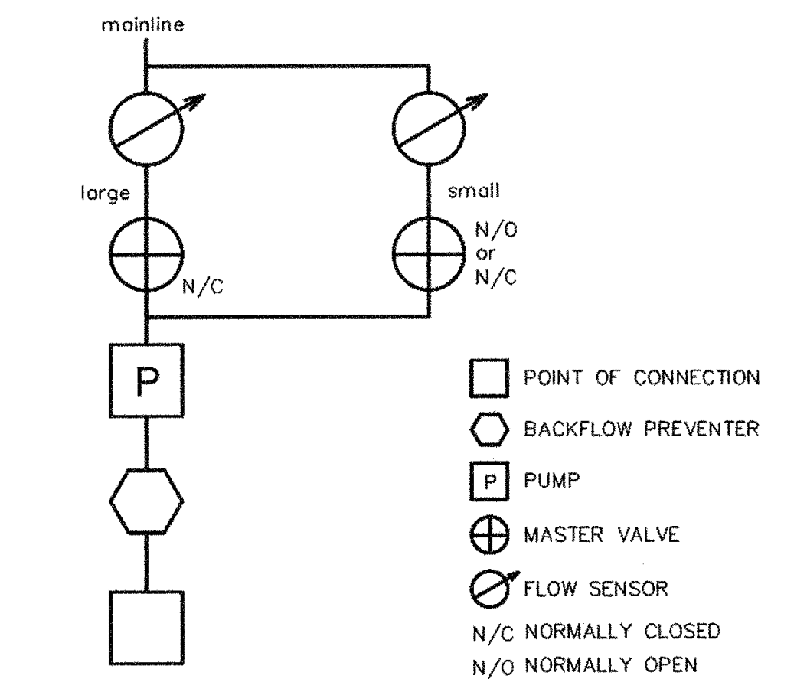
Release: -


5'-0"
24'-0"
6" MAIN LINE
FUTURE MAIN LINE
SPACE FOR DBL CONTROLLER
SURGE TANK ON CONC. SLAB
HOLLOW METAL GATE
S-2
BACKFLOW PREVENTER
8'H CMU WALL
ASPHALT TO RAMP UP AT APRON
BOOSTER PUMP
BOOSTER PUMP CONTROLLER
AREA FOR FUTURE IRRIGATION YARD
D.G. FLOOR
TIE-IN FOR FUTURE IRRIGATION MAIN
S-3
HOLLOW METAL GATE
STEEL STAND TO ACCOMMODATE 2 – 275 GALLON TOTES
MIXING TANK FOR FERTILIZER INJECTION SYSTEM & INJECTOR PUMP ON CONC. PAD
TO CAMPUS
CAP IRRIGATION LINE FOR FUTURE USE
4'-8"
4'-0"
9'-4"
10'-0"
2'-0"
30'-0"

NOTES:

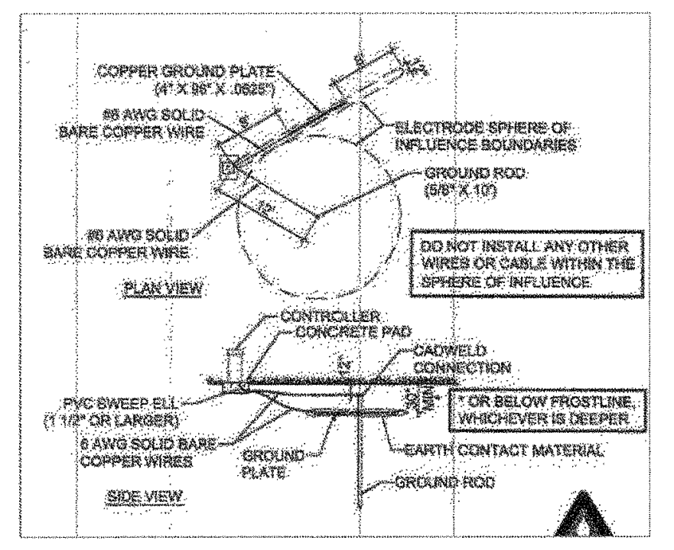
1. EQUIPMENT LAYOUT IS DIAGRAMMATIC, TO BE VERIFIED WITH DISTRICT REQUIREMENTS AND FINAL IRRIGATION DESIGN
2. SIZE OF IRRIGATION YARD TO BE VERIFIED WITH DISTRICT REQUIREMENTS AND FINAL IRRIGATION DESIGN

22 IRRIGATION YARD
L3.01 ADS100-67 SCALE: 1' = 1'-0"

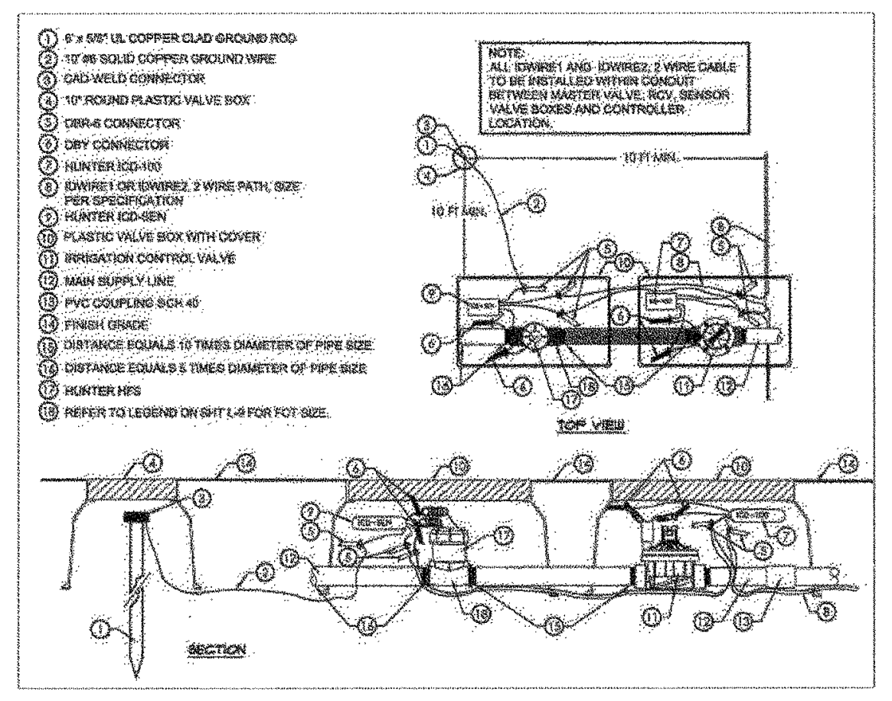


- POINT OF CONNECTION
- BACKFLOW PREVENTER
- P PUMP
- MASTER VALVE
- FLOW SENSOR
- N/C NORMALLY CLOSED
- N/O NORMALLY OPEN

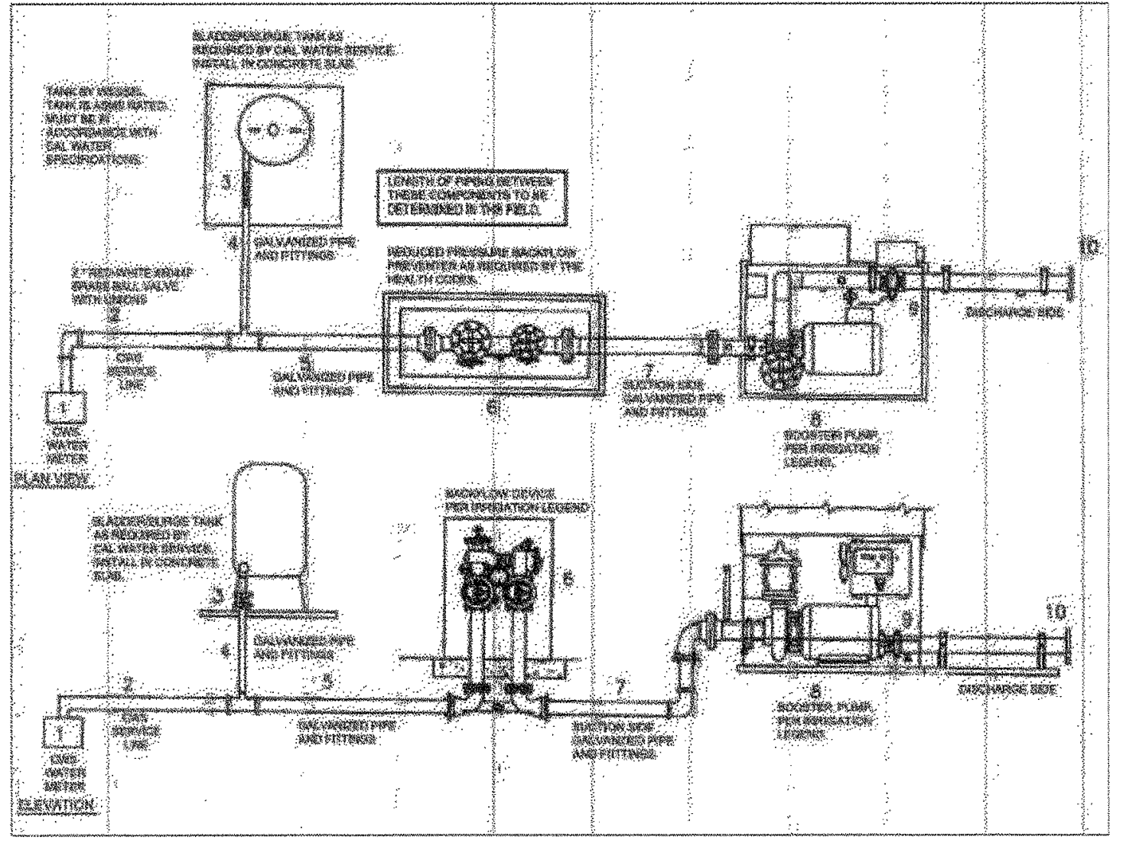
23 BYPASS MANIFOLD
L3.01 ADS100-68 NTS



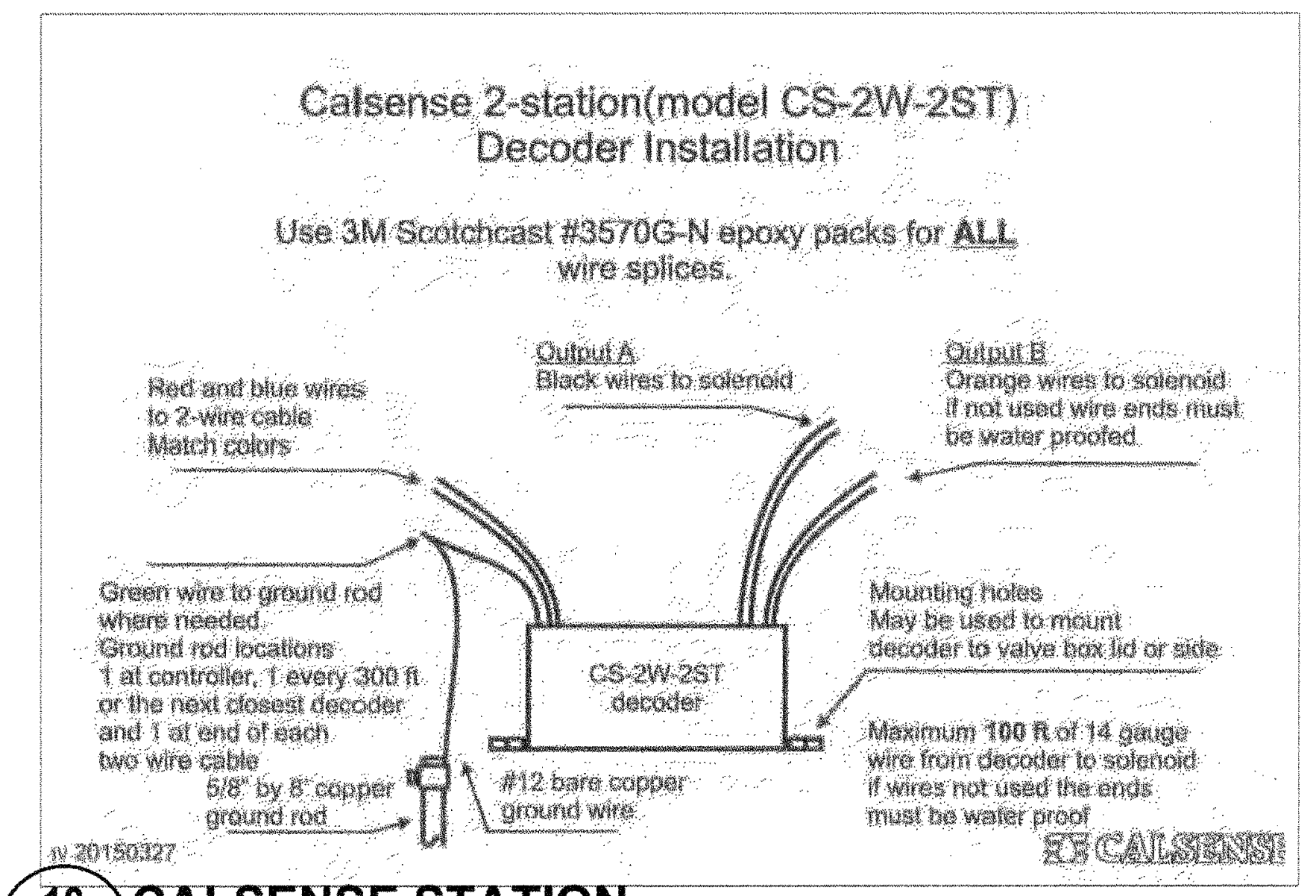
24 GROUNDING ROD
L3.01 NTS



25 MASTER VALVE AND FLOW SENSOR
L3.01 NTS



26 BLADDER/SURGE TANK
L3.01 NTS



Calsense 2-station(model CS-2W-2ST)
Decoder Installation

Use 3M Scotchcast #3570G-N epoxy packs for **ALL** wire splices.

Red and blue wires to 2-wire cable Match colors

Output A
Black wires to solenoid

Output B
Orange wires to solenoid if not used wire ends must be water proofed

Green wire to ground rod where needed. Ground rod locations 1 at controller, 1 every 300 ft or the next closest decoder and 1 at end of each two wire cable

5/8" by 8' copper ground rod

CS-2W-2ST decoder

#12 bare copper ground wire

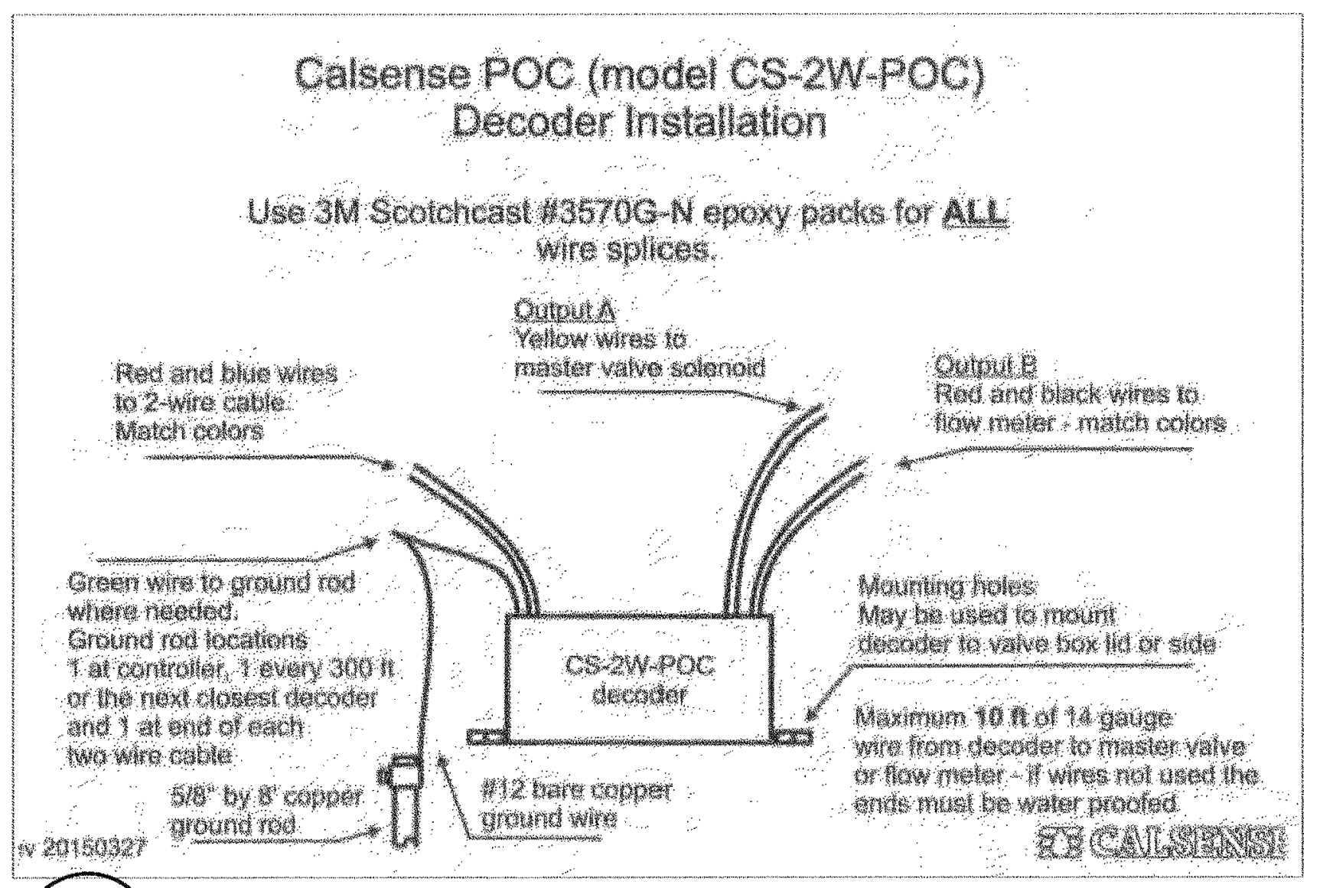
Mounting holes May be used to mount decoder to valve box lid or side

Maximum **100 ft** of 14 gauge wire from decoder to solenoid if wires not used the ends must be water proof

rv 20150327

CALSENSE

18 CALSENSE STATION
L3.01 NTS



Calsense POC (model CS-2W-POC)
Decoder Installation

Use 3M Scotchcast #3570G-N epoxy packs for **ALL** wire splices.

Output A
Yellow wires to master valve solenoid

Red and blue wires to 2-wire cable. Match colors

Output B
Red and black wires to flow meter - match colors

Green wire to ground rod where needed. Ground rod locations 1 at controller, 1 every 300 ft or the next closest decoder and 1 at end of each two wire cable

5/8" by 8' copper ground rod

CS-2W-POC decoder

#12 bare copper ground wire

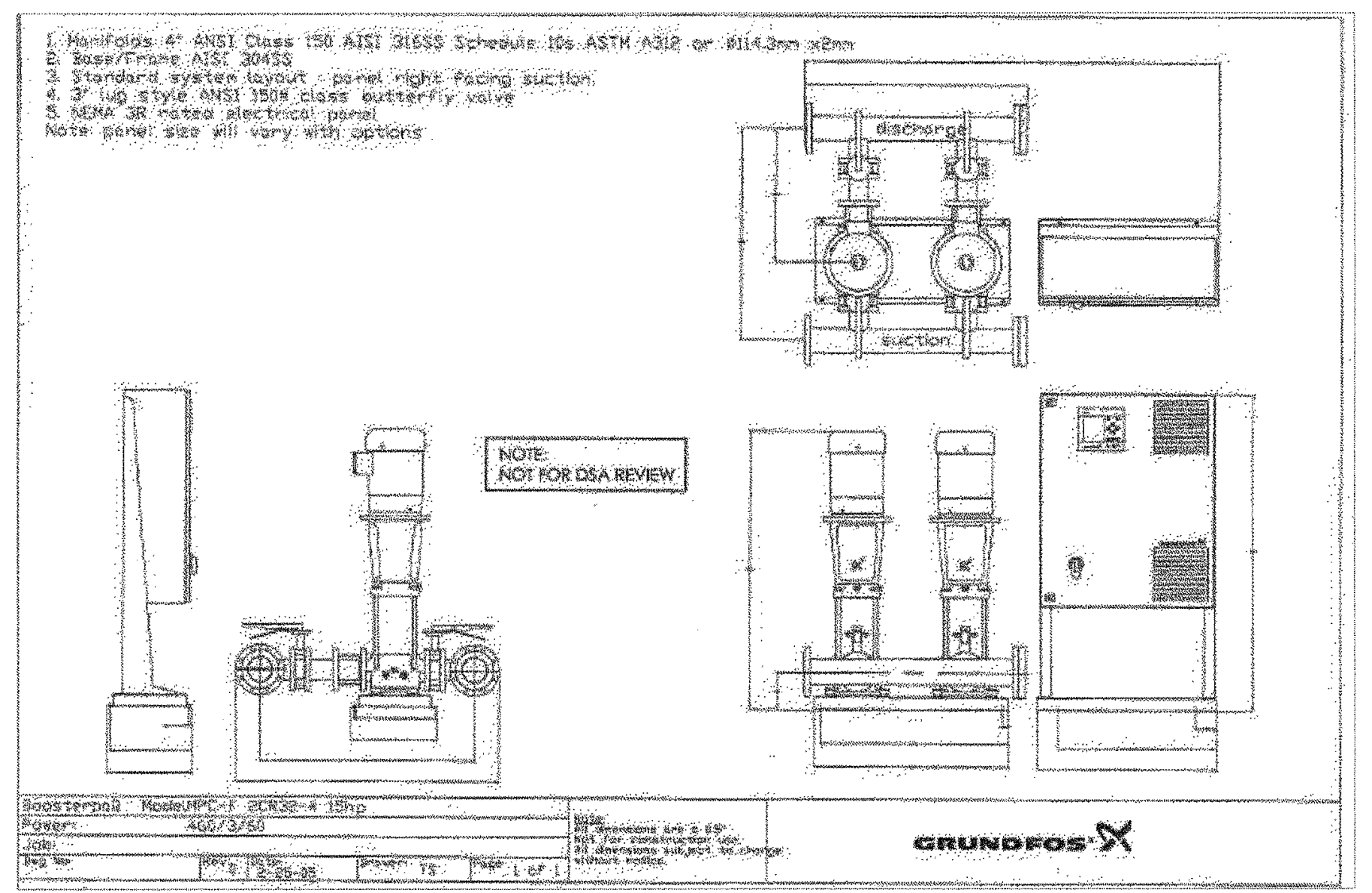
Mounting holes May be used to mount decoder to valve box lid or side

Maximum **10 ft** of 14 gauge wire from decoder to master valve or flow meter - if wires not used the ends must be water proofed

rv 20150327

CALSENSE

19 TRENCHING DETAIL WITHIN LANDSCAPE
L3.01 NTS

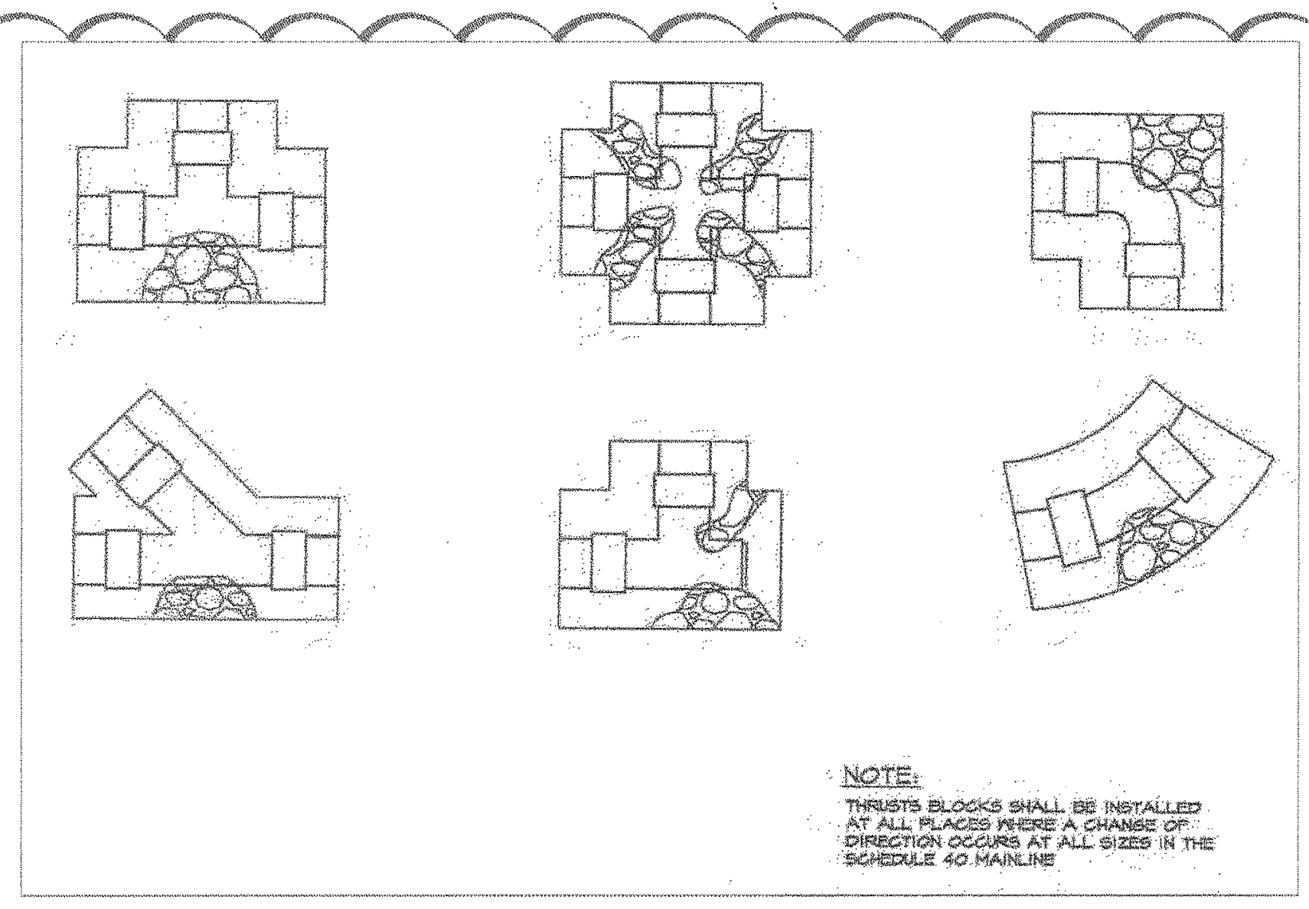


1. Manifolds 4" ANSI Class 150 AISI 316SS Schedule 10s ASTM A312 or Ø114.3mm x2mm
2. Base/Frame AISI 304SS
3. Standard system layout - panel right facing suction
4. 3" lug style ANSI 150# class butterfly valve
5. NEMA 3R rated electrical panel

Note: panel size will vary with options

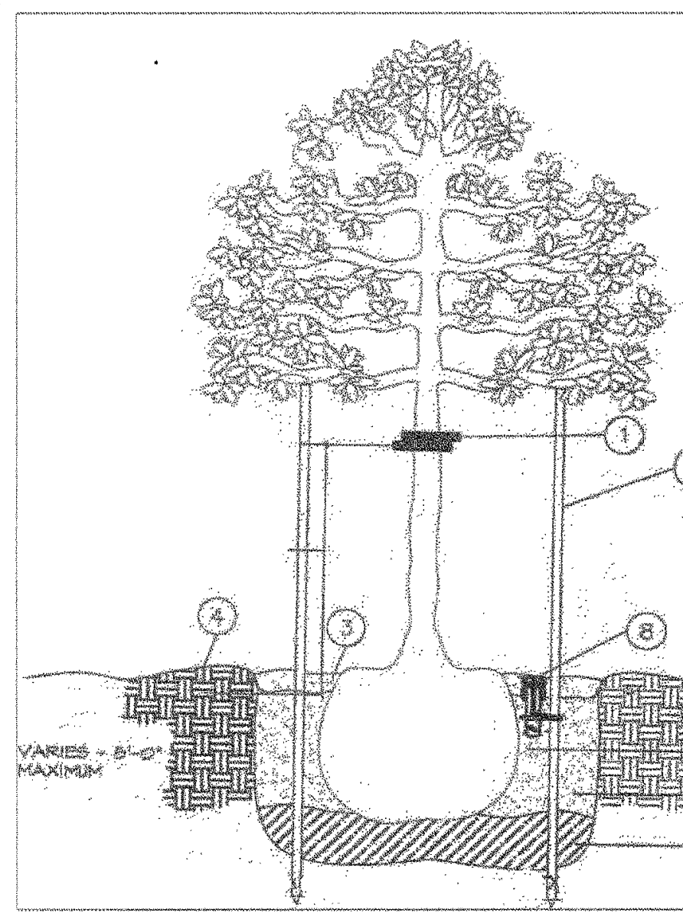
NOTE: NOT FOR DSA REVIEW

20 GRUNDFOS PUMP
L3.01 NTS



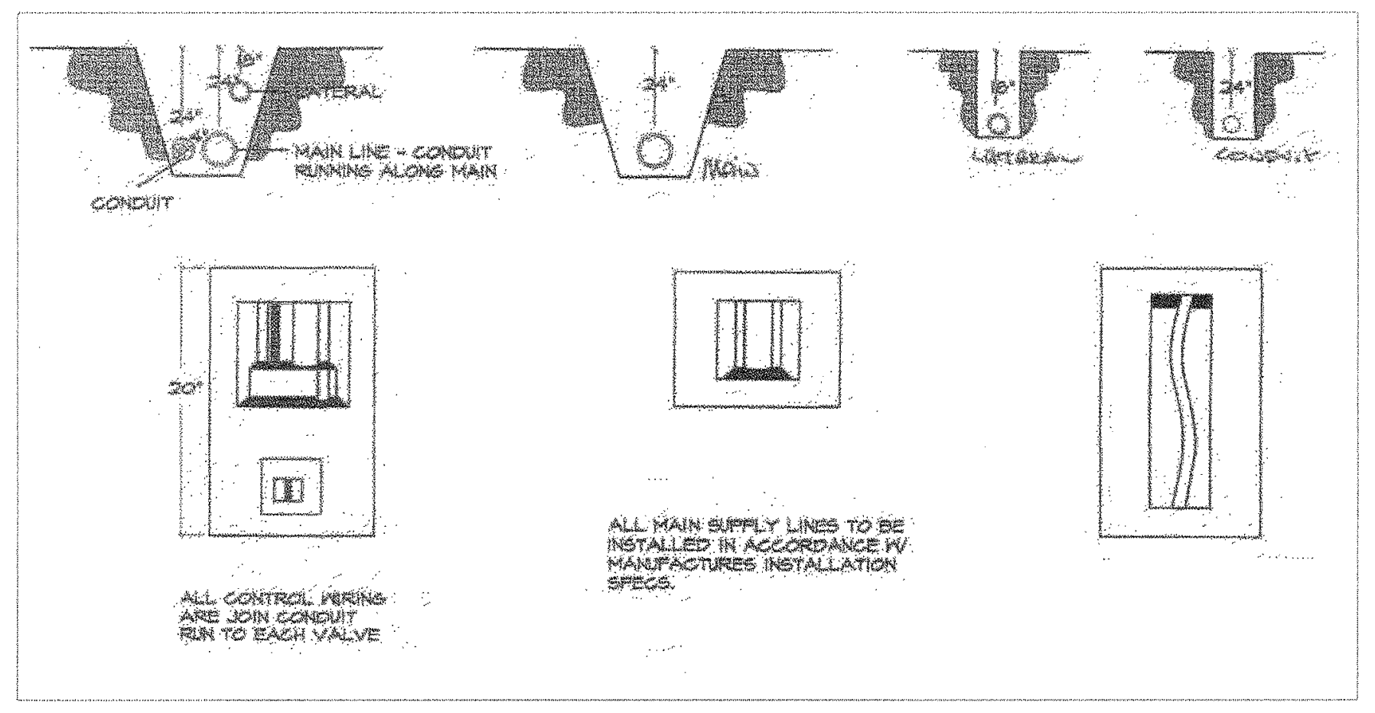
NOTE:
THRUSTS BLOCKS SHALL BE INSTALLED AT ALL PLACES WHERE A CHANGE OF DIRECTION OCCURS AT ALL SIZES IN THE SCHEDULE 40 MAINLINE

11 THRUST BLOCKS
L3.01 NTS

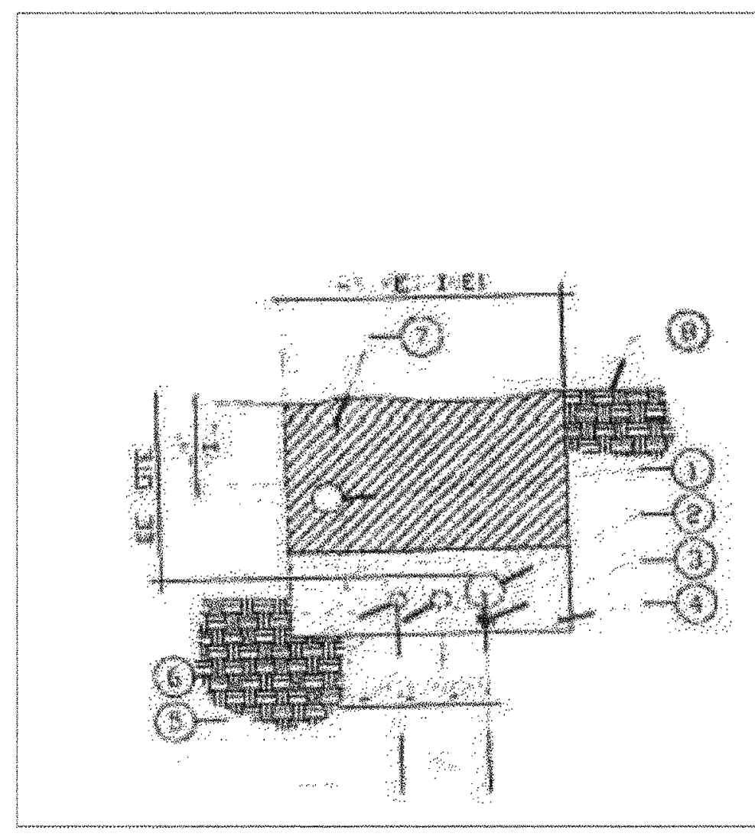


① DOUBLE 10 GAGE WIRE REINFORCED W/ RUBBER HOSE
② 2-2" X 2" WOOD STAKES PERPENDICULAR TO WIND DIRECTION
③ 6" DEEP WATER BASIN
④ FINISH GRADE
⑤ BACKFILL MIX - SEE SPECIFICATIONS
⑥ HOLE SIZE - SEE SPECIFICATIONS
⑦ FOOT TAMPED BACKFILL
⑧ 1" RWS ROOT WATERING SYSTEM SEE DETAIL FOR SPECIFICATIONS

12 TREE STAKING/PLANTING DETAIL
L3.01 NTS


MAIN LINE + CONDUIT RUNNING ALONG MAIN
CONDUIT
LATERAL
ALL MAIN SUPPLY LINES TO BE INSTALLED IN ACCORDANCE W/ MANUFACTURES INSTALLATION SPECS.
ALL CONTROL WIRING ARE JOIN CONDUIT RUN TO EACH VALVE

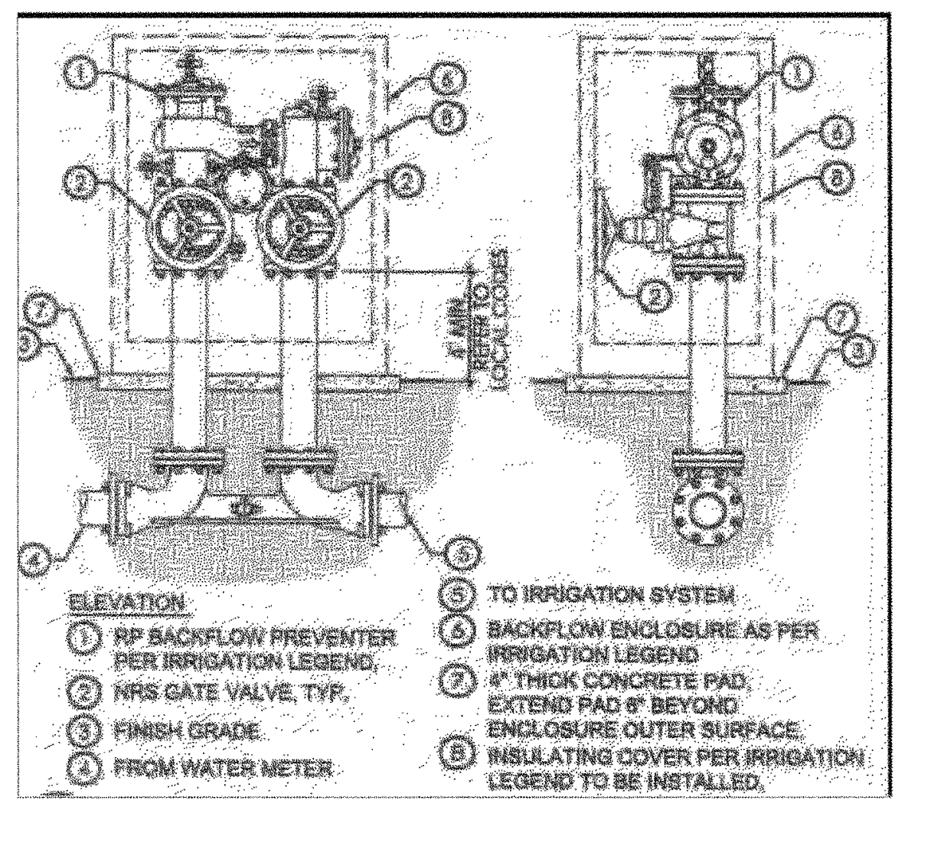
13 TYPICAL TRENCHING DETAILS
L3.01 NTS



1. NON-PRESSURE LATERAL LINE
2. PRESSURIZED MAINLINE
3. CONTROL WIRES – BUNDLE AND TAPE EVERY TEN FEET. INSTALL ADJACENT TO PRESSURE MAIN LINE
4. APPROVED TOP SOIL OR SAND BACKFILL – PROVIDE 3" UNDER PIPE AND 6" ABOVE PIPE.
5. FLOW SENSOR CABLE AND CONDUIT
6. COMMUNICATION CABLE CONDUIT (WHERE REQUIRED).
7. SEE IRRIGATION SPECS FOR BACKFILL AND COMPACTION REQUIREMENTS.
8. FINISH GRADE

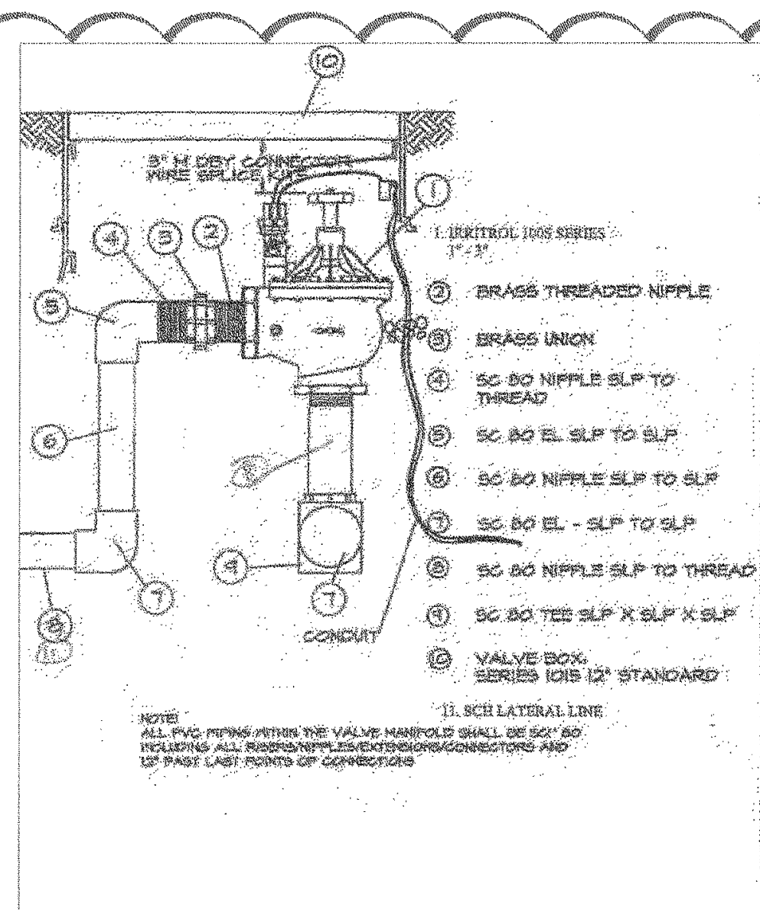
NOTE:
A. MINIMUM BACKFILL DEPTHS FROM GRADE TO TOP OF MAINLINE 24" IN PLANTING AREAS, 36" UNDER PAVED AREAS.
B. ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES.
C. TIE LOOSE 20" LOOP IN WIRING AT CHANGE IN DIRECTION GREATER THAN 30°. TIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.

14 TRENCHING DETAIL WITHIN LANDSCAPE
L3.01 NTS



ELEVATION
① RP BACKFLOW PREVENTER PER IRRIGATION LEGEND.
② NRS GATE VALVE, TYP.
③ FINISH GRADE.
④ FROM WATER METER
⑤ TO IRRIGATION SYSTEM
⑥ BACKFLOW ENCLOSURE AS PER IRRIGATION LEGEND
⑦ 4" THICK CONCRETE PAD, EXTEND PAD 6" BEYOND ENCLOSURE OUTER SURFACE.
⑧ INSULATING COVER PER IRRIGATION LEGEND TO BE INSTALLED.

15 BACKFLOW PREVENTER
L3.01 NTS



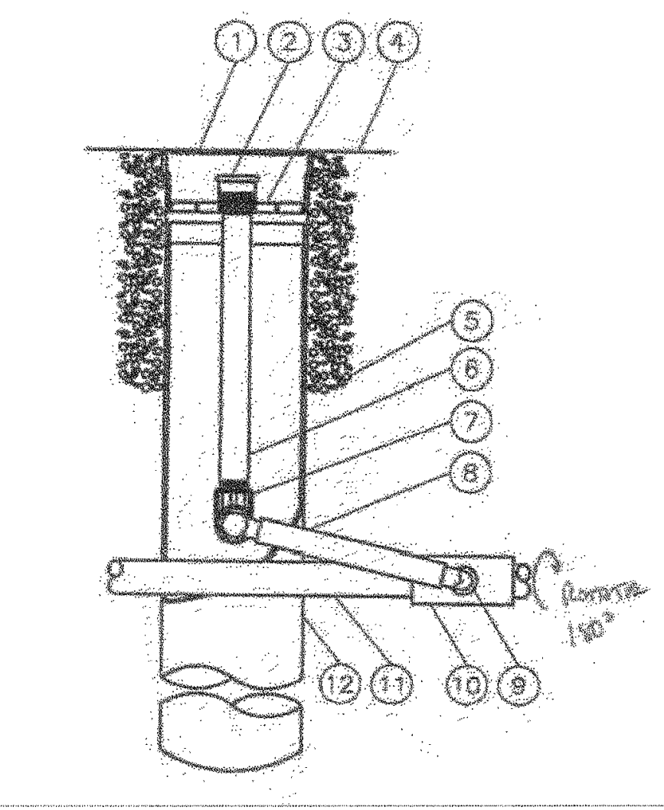
1. IRRITROL 100S SERIES 1"-3"
② BRASS THREADED NIPPLE
③ BRASS UNION
④ SC 80 NIPPLE SLP TO THREAD
⑤ SC 80 EL SLP TO SLP
⑥ SC 80 NIPPLE SLP TO SLP
⑦ SC 80 EL - SLP TO SLP
⑧ SC 80 NIPPLE SLP TO THREAD
⑨ SC 80 TEE SLP X SLP X SLP
⑩ VALVE BOX: SERIES 1015 12" STANDARD
11. SCH LATERAL LINE

NOTE:
ALL PVC PIPING WITHIN THE VALVE MANIFOLD SHALL BE SCH 80 INCLUDING ALL RISERS/NIPPLES/EXTENSIONS/CONNECTORS AND 12" PAST LAST POINTS OF CONNECTIONS

CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS — ITEM 1
TEXT BUBBLES — ①
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

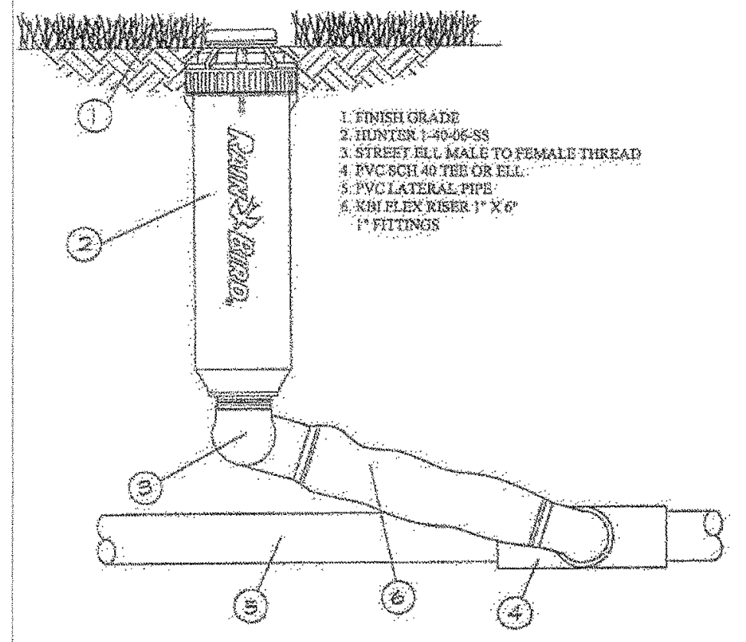
CHOOSING VALVES ND OPTIONS
VALVES
CHOOSE ONE OF THE FOLLOWING VALVES BY TURNING ON THE APPROPRIATE LAYER.
REMOTE CONTROL VALVE
OPTION-SOLENOID
PRESSURE REGULATING REMOTE CONTROL VALVE
OPTION-PRS-D AND EITHER: TEXT-BPE-PRS-D-LEADERS OR TEXT-BPE-PRS-D-BUBBLES
SCRUBBER VALVE
OPTION-SOLENOID AND EITHER: TEXT-BPES-LEADERS OR TEXT-BPES-BUBBLES
PRESSURE REGULATING SCRUBBER VALVE
OPTION-PRS-D AND EITHER: TEXT-BPES-PRS-D-LEADERS OR TEXT-BPES-PRS-D-BUBBLES
OPTIONS
CHOOSE ONE OF THE FOLLOWING OPTIONS BY TURNING ON THE APPROPRIATE LAYER.
BSP THREADS
EITHER: TEXT-BSP-LEADERS OR TEXT-BSP-BUBBLES
NP HANDLE
EITHER: TEXT-NPHAN-LEADERS OR TEXT-NPHAN-BUBBLES
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-OPTION".

6 ELECTRICAL CONTROL VALVE
L3.01 NTS



① 4-INCH GRATE (INCLUDED)
② BUBBLER: RAIN BIRD 1402 0.5 GPM (INCLUDED)
③ ROOT WATERING SYSTEM: RAIN BIRD RWS-B602 (INCLUDES 1402 0.52 GPM BUBBLER WITH RISER, GRATE, SWING ASSEMBLY 1/2" MALE NPT INLET, AND BASKET CANISTER)
④ FINISH GRADE
⑤ OPTIONAL PEA GRAVEL OR RWS SAND SOCK (RWS-SOCK) FOR SANDY SOILS
⑥ 1/2-INCH PVC SCH 80 NIPPLE (INCLUDED)
⑦ 1/2-INCH 90-DEGREE ELBOW (INCLUDED)
⑧ 12-INCH SWING ASSEMBLY (INCLUDED)
⑨ 1/2-INCH MALE NPT INLET (INCLUDED)
⑩ PVC SCH 40 TEE OR EL
⑪ LATERAL PIPE
⑫ 4-INCH BASKET WEAVE CANISTER (INCLUDED)

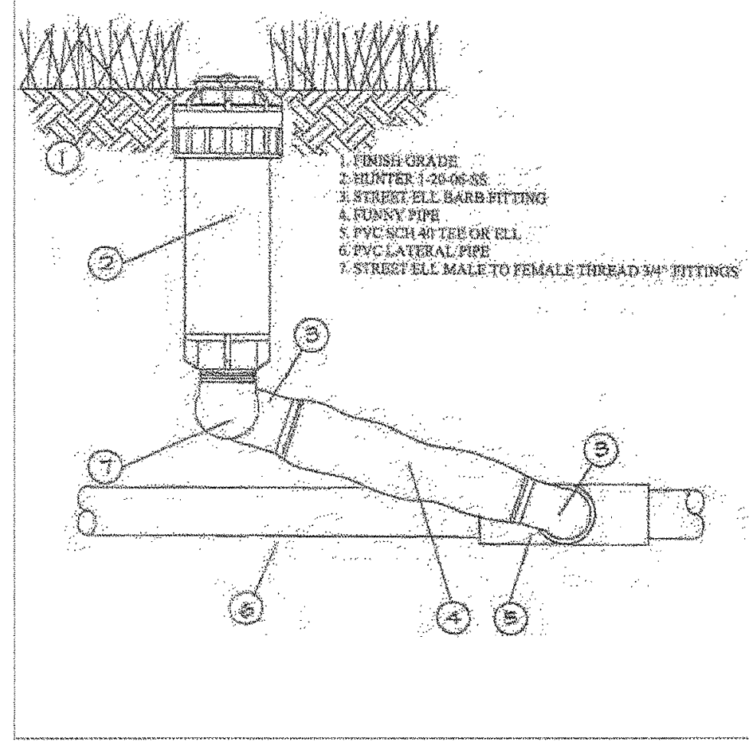
7 ROOT WATERING SYSTEM
L3.01 NTS



1. FINISH GRADE
2. HUNTER 1-40-06-SS
3. STREET ELL MALE TO FEMALE THREAD
4. PVC SCH 40 TEE OR ELL
5. PVC LATERAL PIPE
6. KBI FLEX RISER 1" X 6" 1" FITTINGS

CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS — ITEM 1
TEXT BUBBLES — ①
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

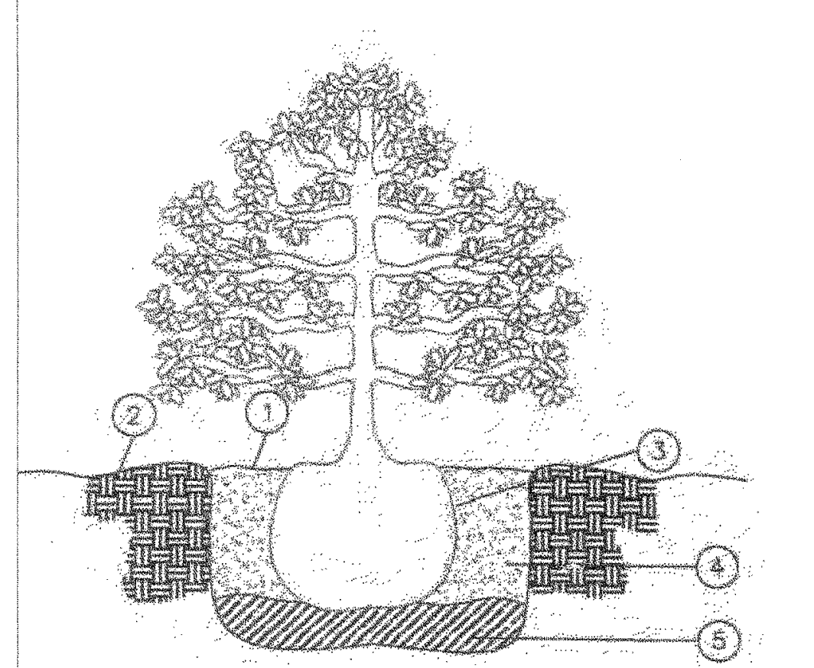
8 HUNTER 1-40-06-SS
L3.01 NTS



1. FINISH GRADE
2. HUNTER 1-20-06-SS
3. STREET ELL BARB FITTING
4. FUNNY PIPE
5. PVC SCH 40 TEE OR ELL
6. PVC LATERAL PIPE
7. STREET ELL MALE TO FEMALE THREAD 3/4" FITTINGS

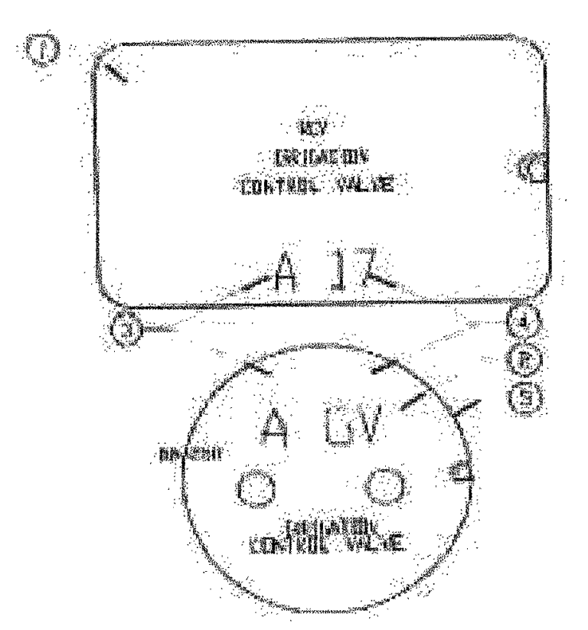
CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS — ITEM 1
TEXT BUBBLES — ①
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

9 HUNTER 1-20-06-SS
L3.01 NTS



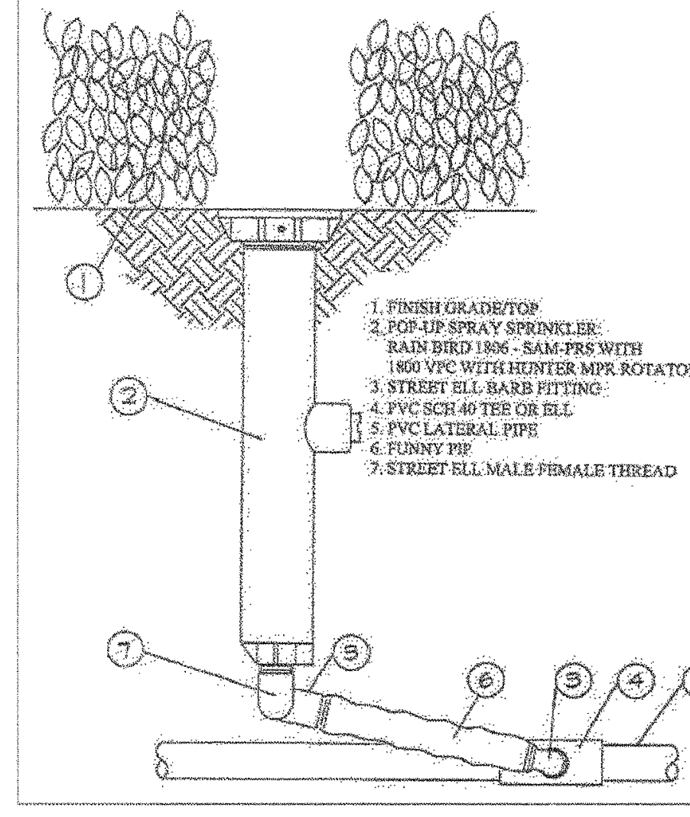
① 4" DEEP WATER BASIN
② FINISH GRADE
③ BACKFILL MIX - SEE SPECIFICATIONS
④ HOLE TAMPED BACKFILL
⑤ FOOT TAMPED BACKFILL

10 SHRUB PLANTING DETAIL
L3.01 NTS



1. JUMBO VALVE BOX WITH LOCKABLE COVER
2. 3" BRANDING PER THE IRRIGATION SPECIFICATIONS
3. CONTROLLER DESIGNATION
4. VALVE IDENTIFICATION
5. ROUND VALVE BOX WITH LOCKABLE COVER

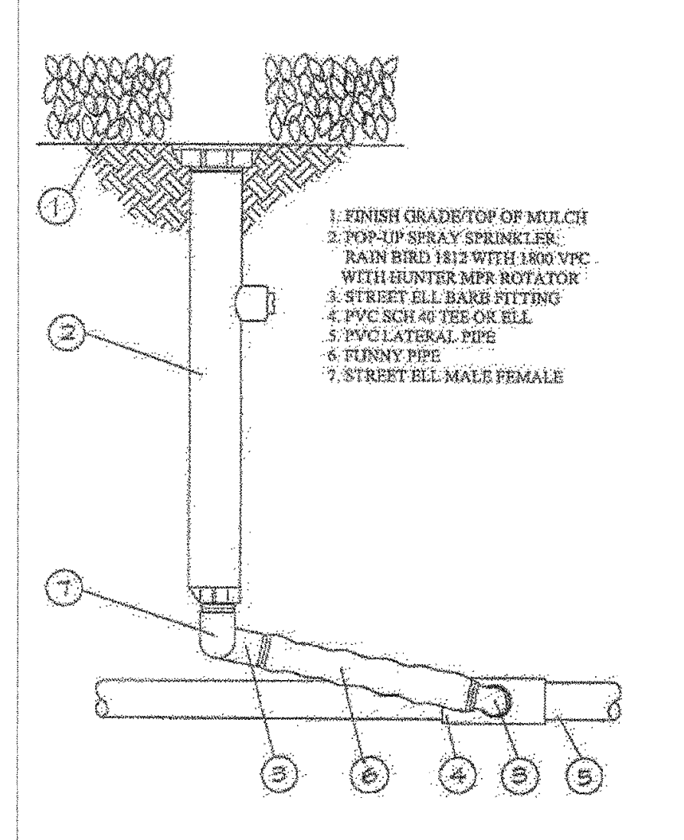
1 VALVE BOX HEAT BRANDING
L3.01 NTS



1. FINISH GRADE/TOP
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806 - SAM-PRS WITH 1800 VPC WITH HUNTER MPR ROTATOR
3. STREET ELL BARB FITTING
4. PVC SCH 40 TEE OR ELL
5. PVC LATERAL PIPE
6. FUNNY PIP
7. STREET ELL MALE FEMALE THREAD

CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS — ITEM 1
TEXT BUBBLES — ①
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

2 POP UP SPRAY SPINKLER - 1806
L3.01 NTS

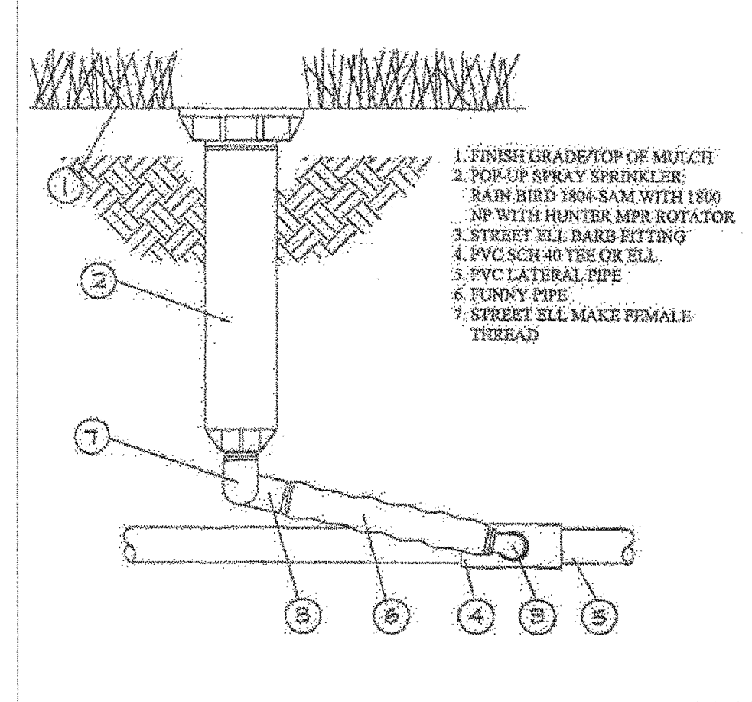


1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1812 WITH 1800 VPC WITH HUNTER MPR ROTATOR
3. STREET ELL BARB FITTING
4. PVC SCH 40 TEE OR ELL
5. PVC LATERAL PIPE
6. FUNNY PIPE
7. STREET ELL MALE FEMALE

CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS — ITEM 1
TEXT BUBBLES — ①
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

NO MARLEX

3 POP UP SPRINKLER - 1812
L3.01 NTS

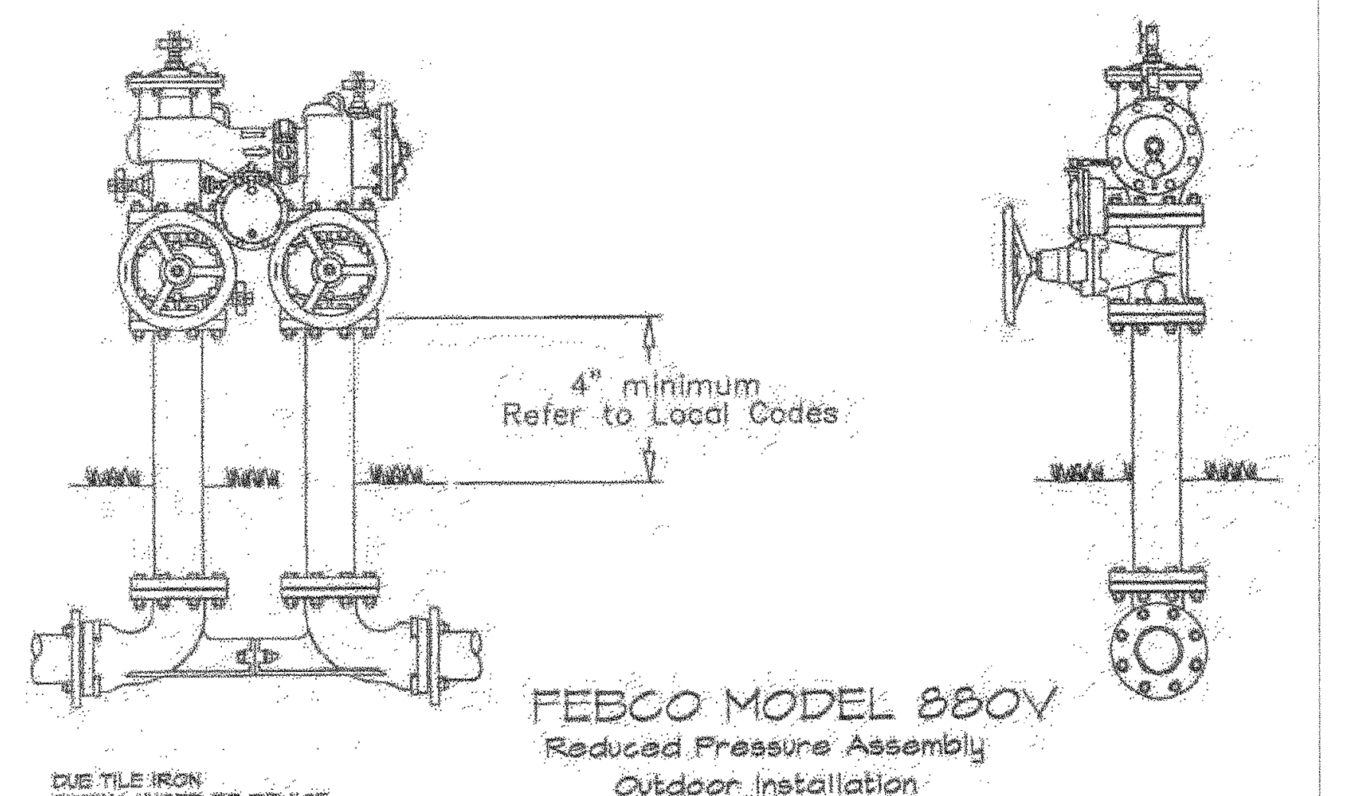


1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1804-SAM WITH 1800 NP WITH HUNTER MPR ROTATOR
3. STREET ELL BARB FITTING
4. PVC SCH 40 TEE OR ELL
5. PVC LATERAL PIPE
6. FUNNY PIPE
7. STREET ELL MAKE FEMALE THREAD

CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS — ITEM 1
TEXT BUBBLES — ①
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

NO MARLEX

4 POP UP SPRINKLER -1804
L3.01 NTS



FEBCO MODEL 880V
Reduced Pressure Assembly
Outdoor Installation
NRS Gates

DUE TILE IRON FITTING UNDER RP DEVICE PVC 40 OR 80 AFTER FLANGE

5 PRESSURE ASSEMBLY - 880V
L3.01 NTS

△2

G:\2017frs\17-5262 BCSD New Elementary\Sheets\L3.01 LANDSCAPE DETAILS.dwg

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www.integrateddesigns.com

Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:
2	ADDENDUM 2	08.24.18			

Sheet Title:
LANDSCAPE DETAILS

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01-31-18
Date: 08/31/18
Designer: --
DR: --
PC: PC INITIALS

Agency Approval Stamp:
FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC____FLS____SS____
DATE______________
TRACKING #: 63321-300

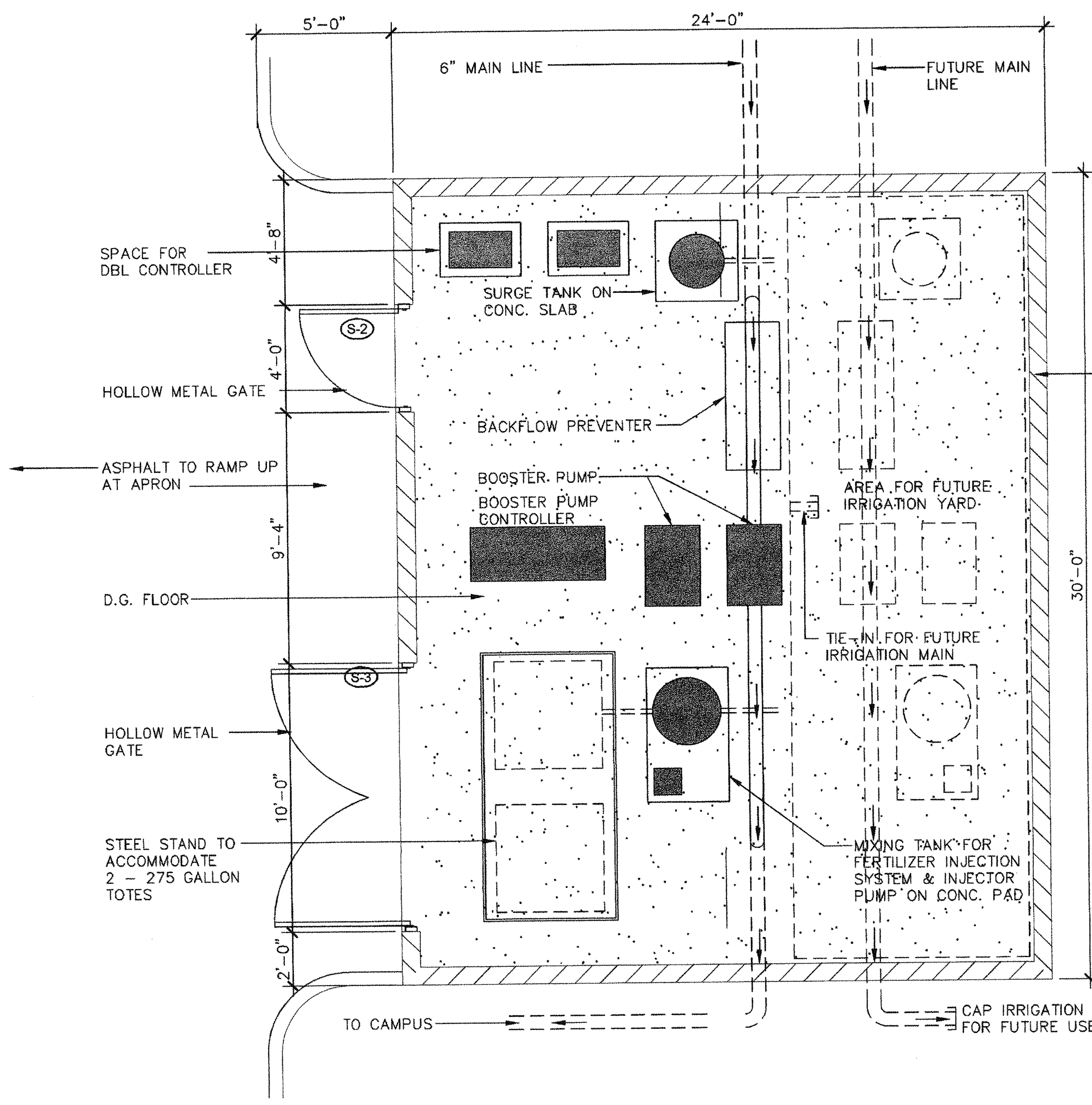
Stamp(s):
CURTIS E. FLYNN
No. C 28966
REN. 5-31-19

Job No.: 5262

Sheet No.: L3.01

Release: - ADDENDUM #2

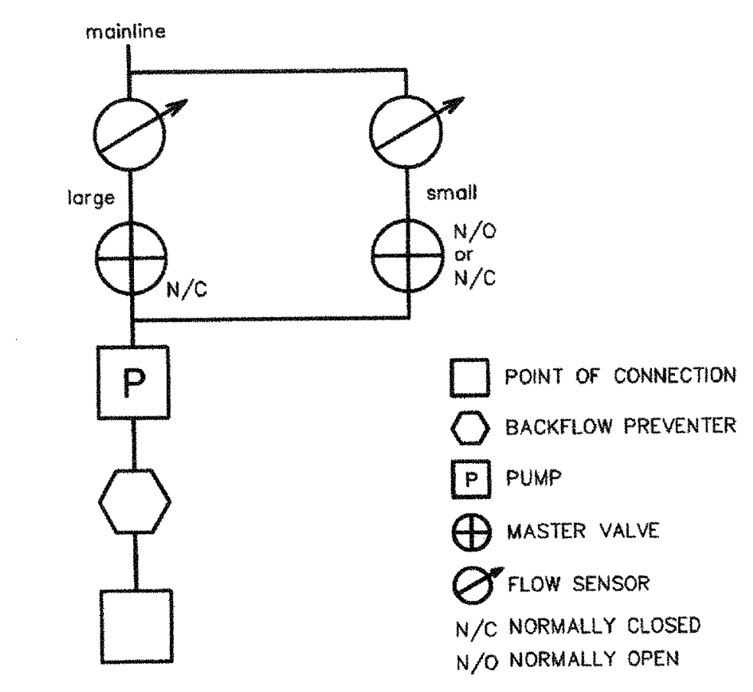
RICHARD DELLANINI


5'–0"
24'–0"
6" MAIN LINE
FUTURE MAIN LINE
SPACE FOR DBL CONTROLLER
SURGE TANK ON CONC. SLAB
S-2
HOLLOW METAL GATE
8'H CMU WALL
BACKFLOW PREVENTER
ASPHALT TO RAMP UP AT APRON
BOOSTER PUMP
BOOSTER PUMP CONTROLLER
AREA FOR FUTURE IRRIGATION YARD
D.G. FLOOR
TIE-IN FOR FUTURE IRRIGATION MAIN
S-3
HOLLOW METAL GATE
STEEL STAND TO ACCOMMODATE 2 – 275 GALLON TOTES
MIXING TANK FOR FERTILIZER INJECTION SYSTEM & INJECTOR PUMP ON CONC. PAD
TO CAMPUS
CAP IRRIGATION LINE FOR FUTURE USE
4'–8"
4'–0"
9'–4"
10'–0"
2'–0"
30'–0"

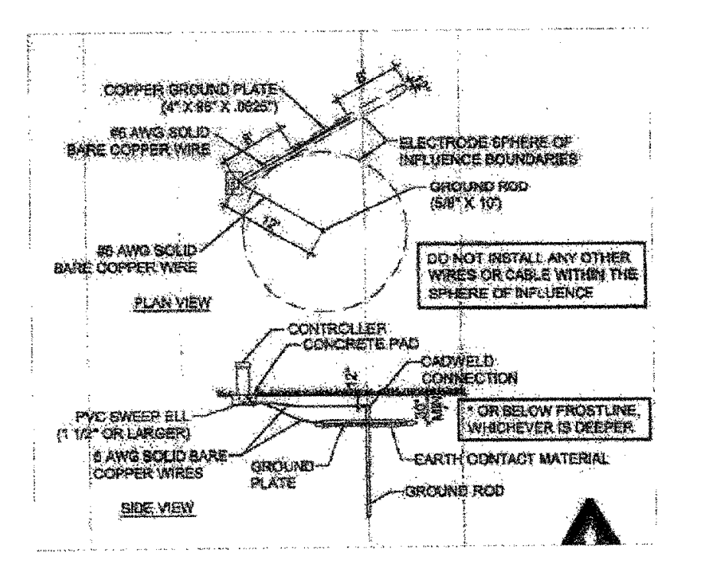
NOTES:

1. EQUIPMENT LAYOUT IS DIAGRAMMATIC, TO BE VERIFIED WITH DISTRICT REQUIREMENTS AND FINAL IRRIGATION DESIGN
2. SIZE OF IRRIGATION YARD TO BE VERIFIED WITH DISTRICT REQUIREMENTS AND FINAL IRRIGATION DESIGN

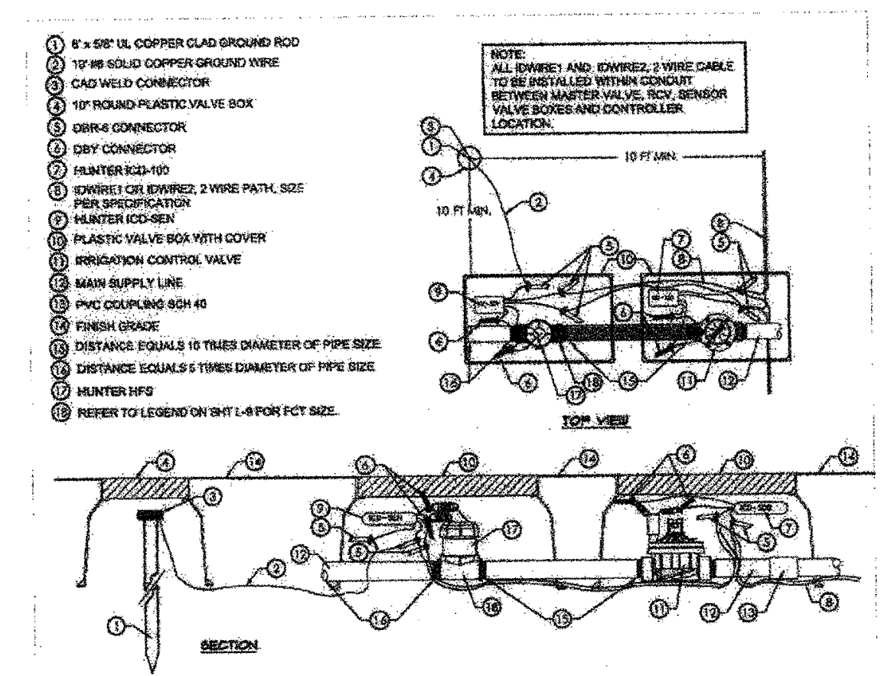
22 IRRIGATION YARD
L3.01 ADS100–67 SCALE: 1' = 1'–0"


mainline
large
small
N/C
N/O or N/C
P
POINT OF CONNECTION
BACKFLOW PREVENTER
PUMP
MASTER VALVE
FLOW SENSOR
N/C NORMALLY CLOSED
N/O NORMALLY OPEN

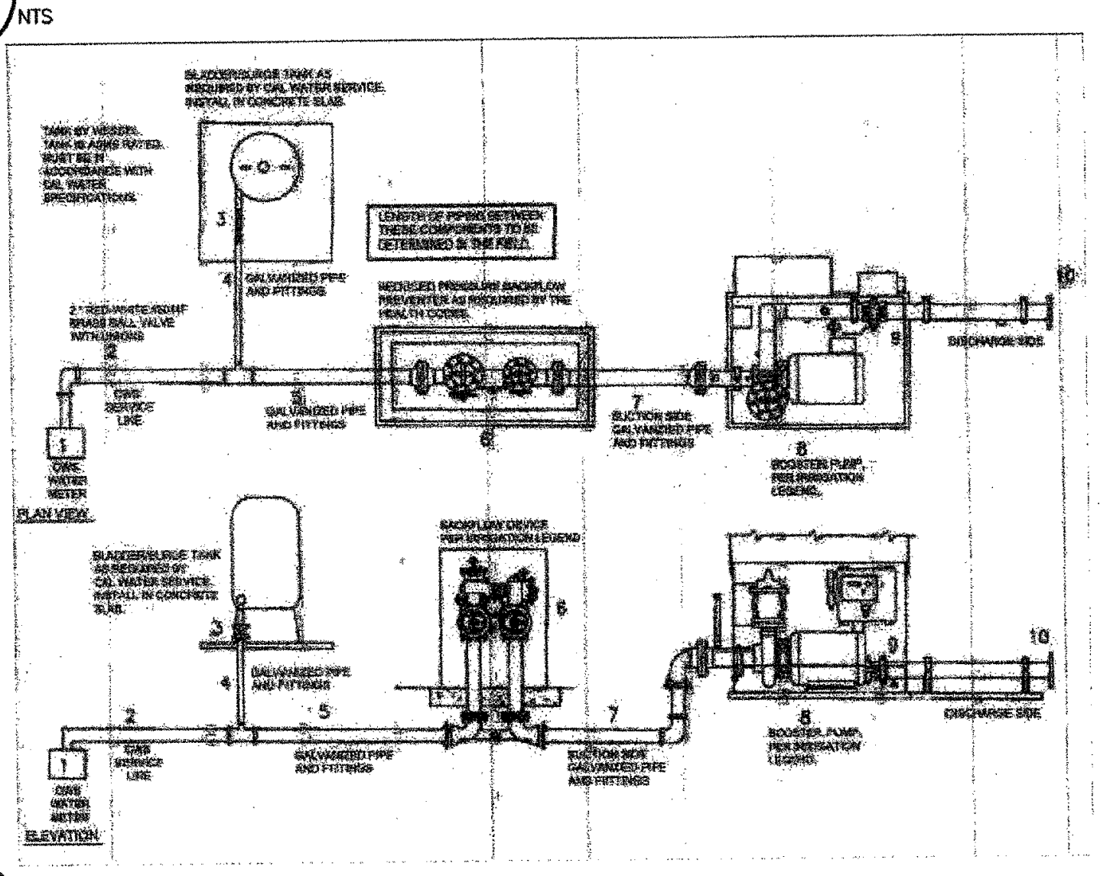
23 BYPASS MANIFOLD
L3.01 ADS100–68 NTS


COPPER GROUND PLATE (4" X 96" X .0625")
#6 AWG SOLID BARE COPPER WIRE
ELECTRODE SPHERE OF INFLUENCE BOUNDARIES
GROUND ROD

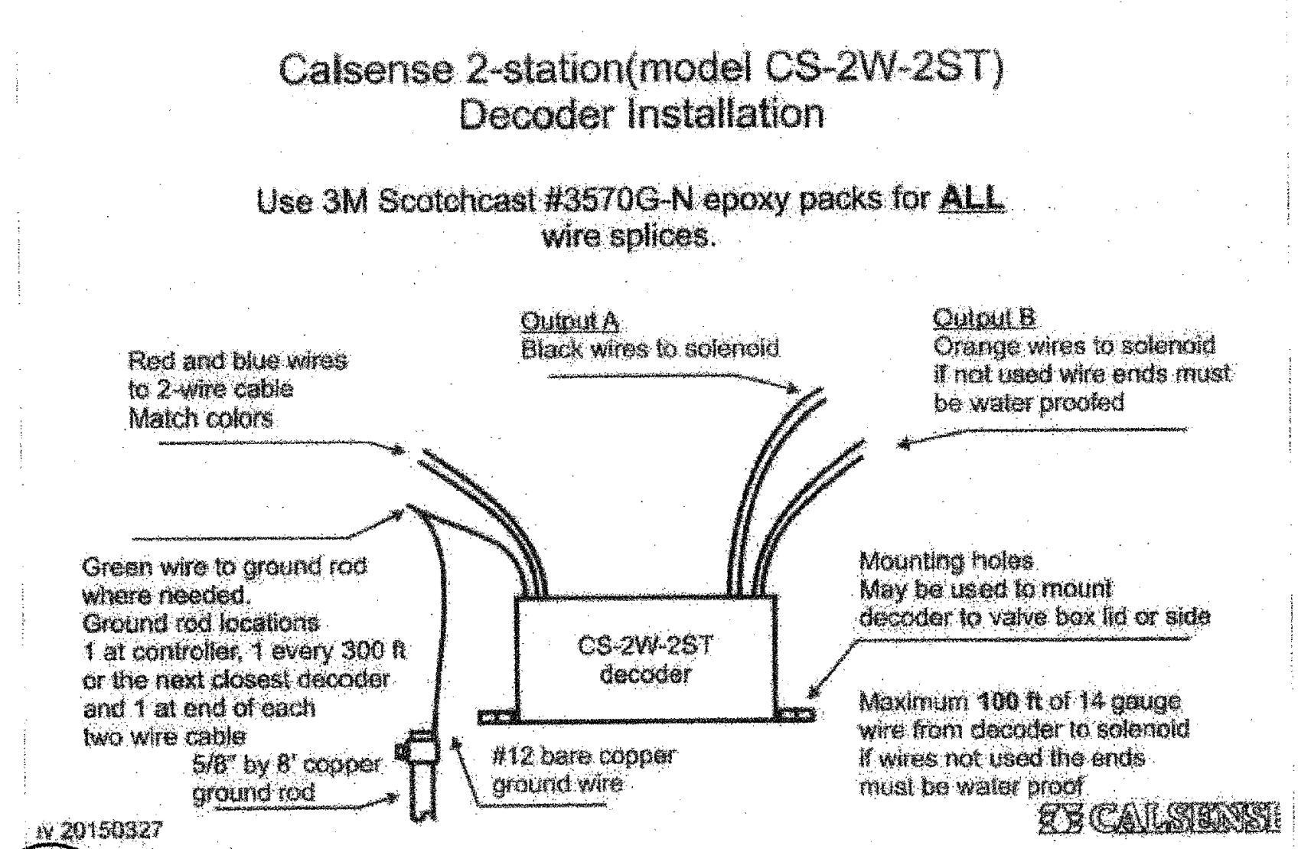
24 GROUNDING ROD
L3.01 NTS



25 MASTER VALVE AND FLOW SENSOR
L3.01 NTS



26 BLADDER/SURGE TANK
L3.01 NTS



Calsense 2-station(model CS-2W-2ST)
Decoder Installation

Use 3M Scotchcast #3570G-N epoxy packs for **ALL** wire splices.

Output A
Black wires to solenoid

Output B
Orange wires to solenoid
If not used wire ends must be water proofed

Red and blue wires to 2-wire cable
Match colors

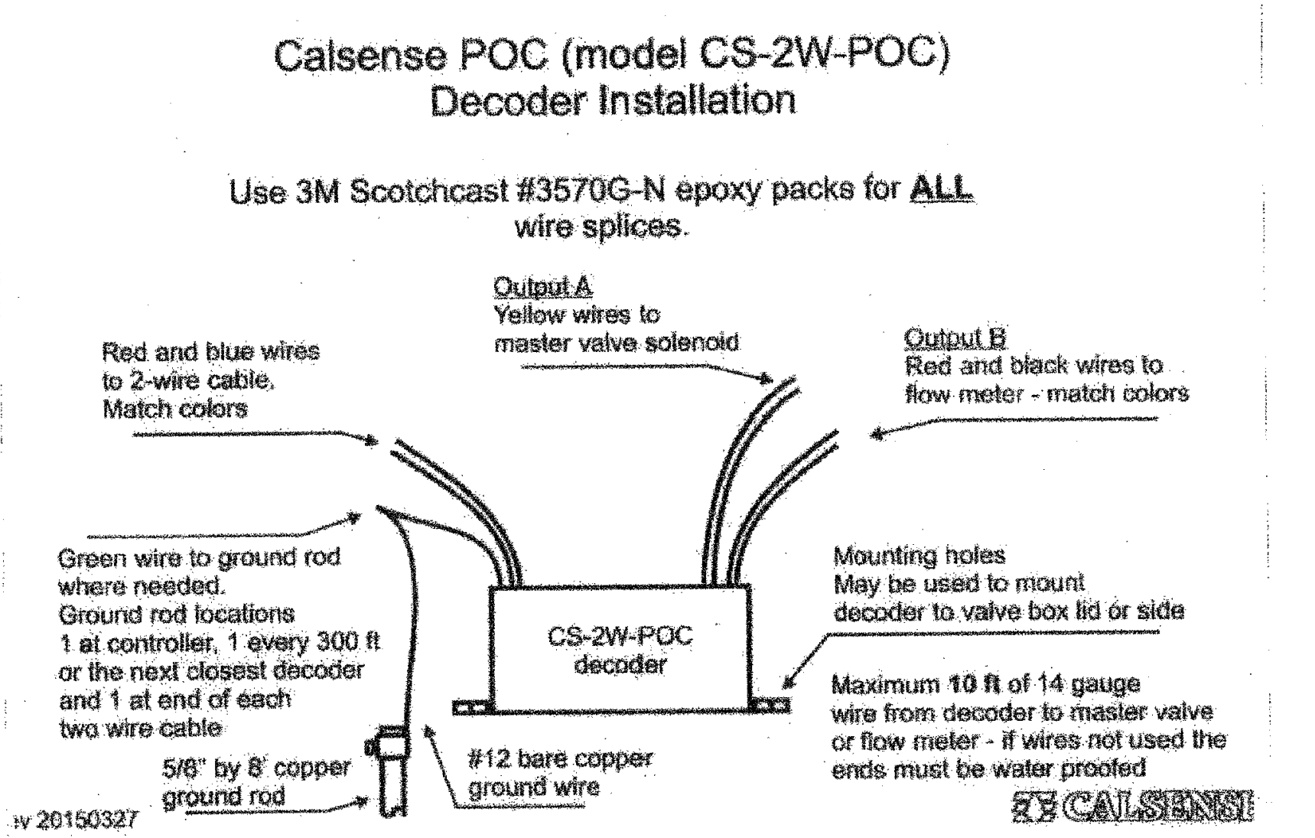
Green wire to ground rod where needed.
Ground rod locations
1 at controller, 1 every 300 ft or the next closest decoder and 1 at end of each two wire cable

Mounting holes
May be used to mount decoder to valve box lid or side

Maximum **100 ft** of 14 gauge wire from decoder to solenoid
If wires not used the ends must be water proof

CS-2W-2ST decoder
5/8" by 8' copper ground rod
#12 bare copper ground wire
CALSENSE
rv 20150327

18 CALSENSE STATION
L3.01 NTS



Calsense POC (model CS-2W-POC)
Decoder Installation

Use 3M Scotchcast #3570G-N epoxy packs for **ALL** wire splices.

Output A
Yellow wires to master valve solenoid

Output B
Red and black wires to flow meter - match colors

Red and blue wires to 2-wire cable.
Match colors

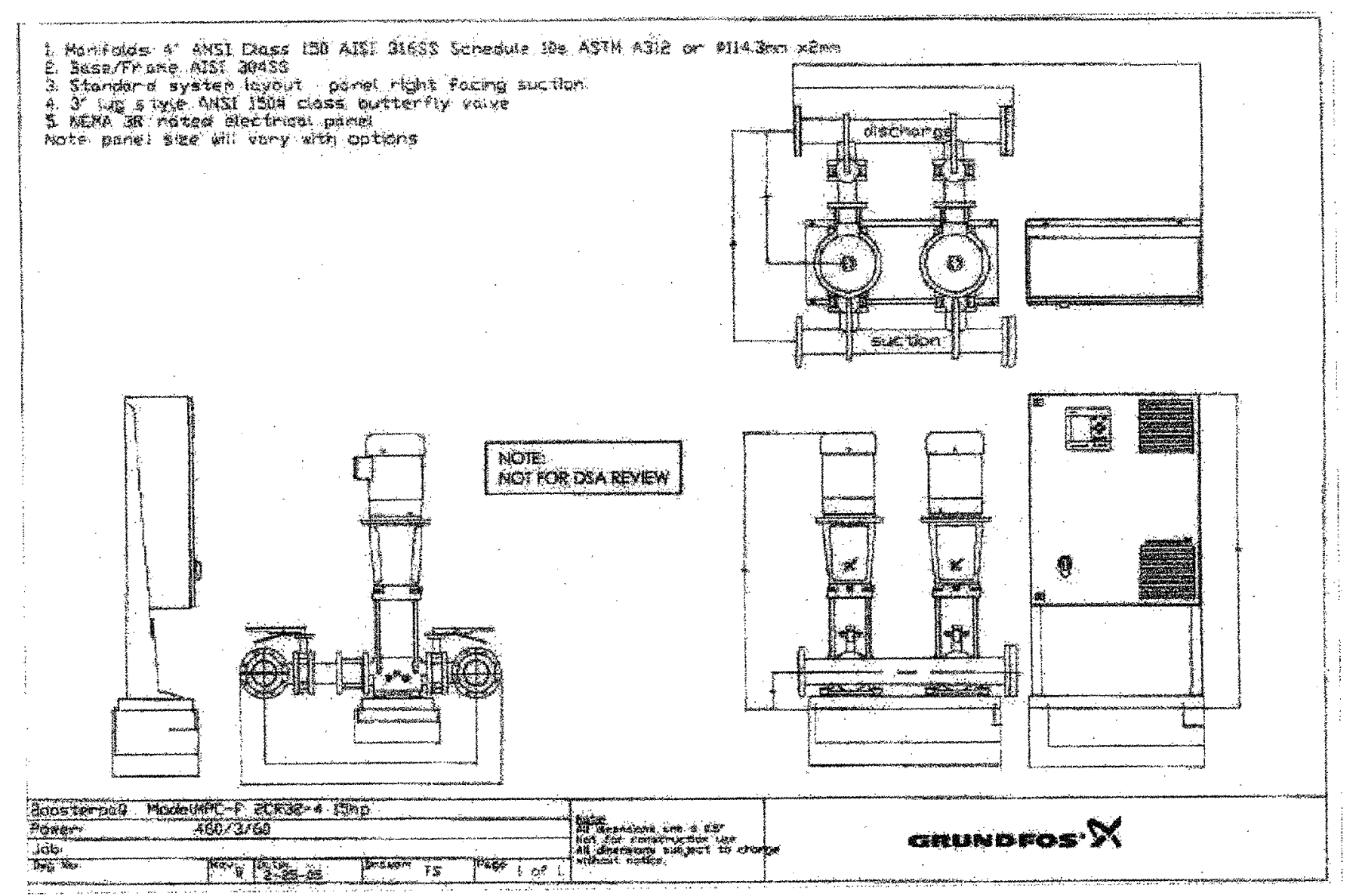
Green wire to ground rod where needed.
Ground rod locations
1 at controller, 1 every 300 ft or the next closest decoder and 1 at end of each two wire cable

Mounting holes
May be used to mount decoder to valve box lid or side

Maximum **10 ft** of 14 gauge wire from decoder to master valve or flow meter - if wires not used the ends must be water proofed

CS-2W-POC decoder
5/8" by 8' copper ground rod
#12 bare copper ground wire
CALSENSE
rv 20150327

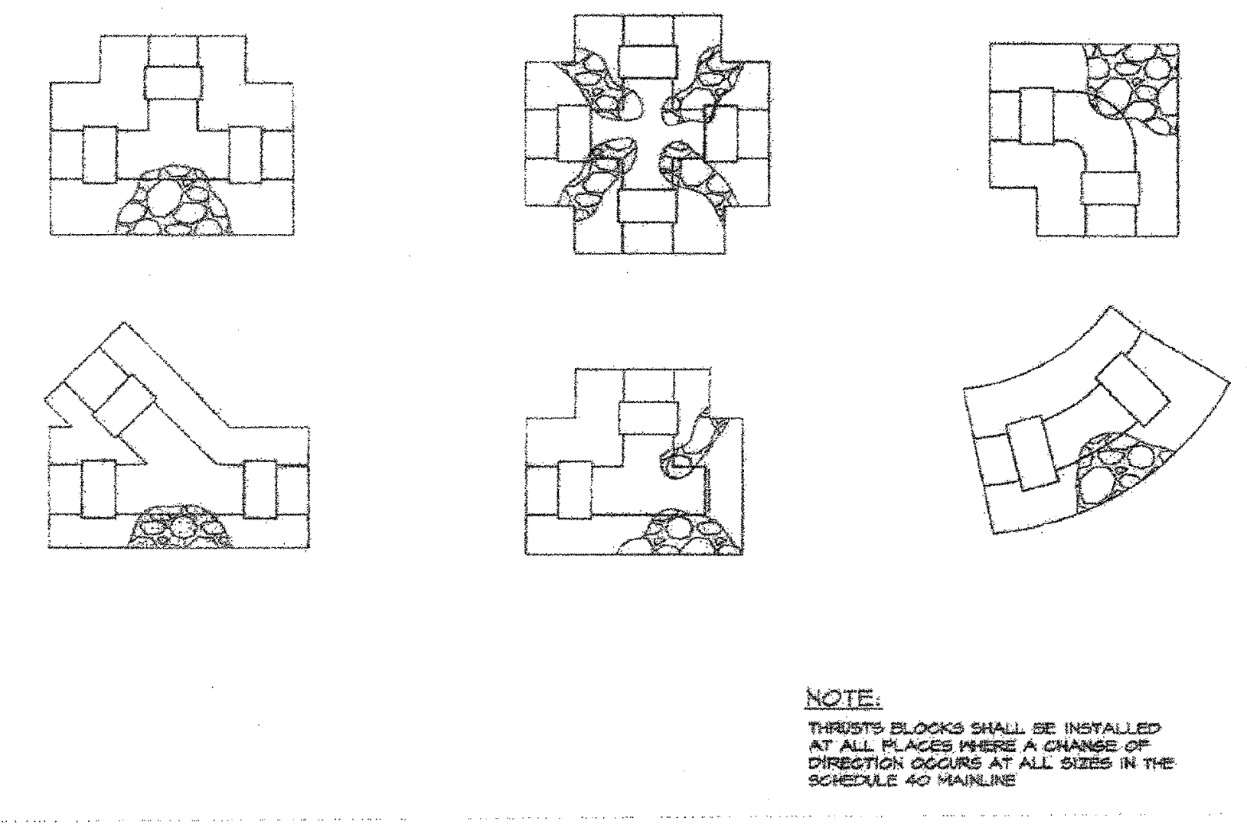
19 TRENCHING DETAIL WITHIN LANDSCAPE
L3.01 NTS



1. Manifolds 4" ANSI Class 150 AISI 316SS Schedule 10s ASTM A312 or Ø114.3mm x2mm
2. Base/Frame AISI 304SS
3. Standard system layout panel right facing suction
4. 3" lug style ANSI 150# class butterfly valve
5. NEMA 3R rated electrical panel

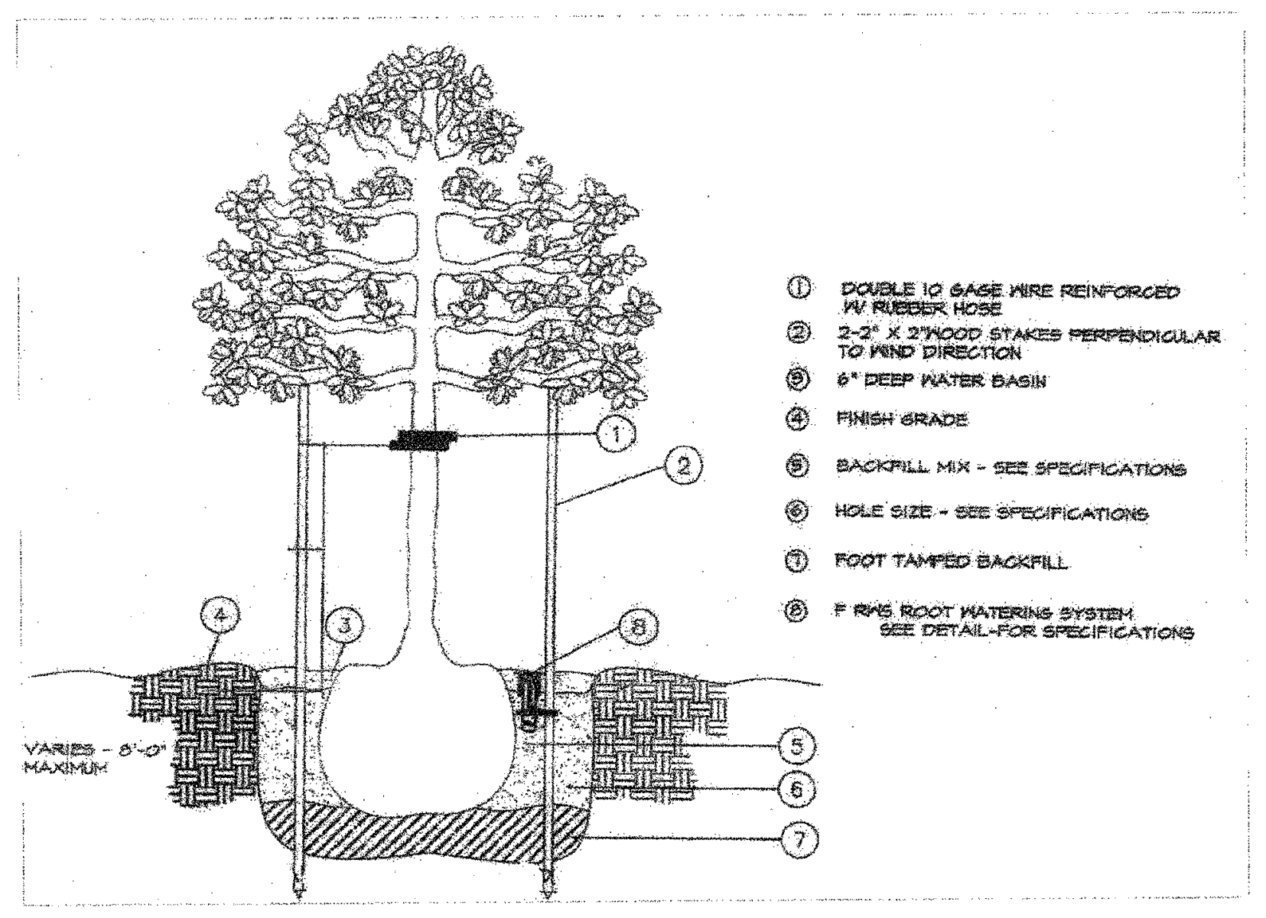
discharge
suction
NOTE: NOT FOR DSA REVIEW
GRUNDFOS

20 GRUNDFOS PUMP
L3.01 NTS



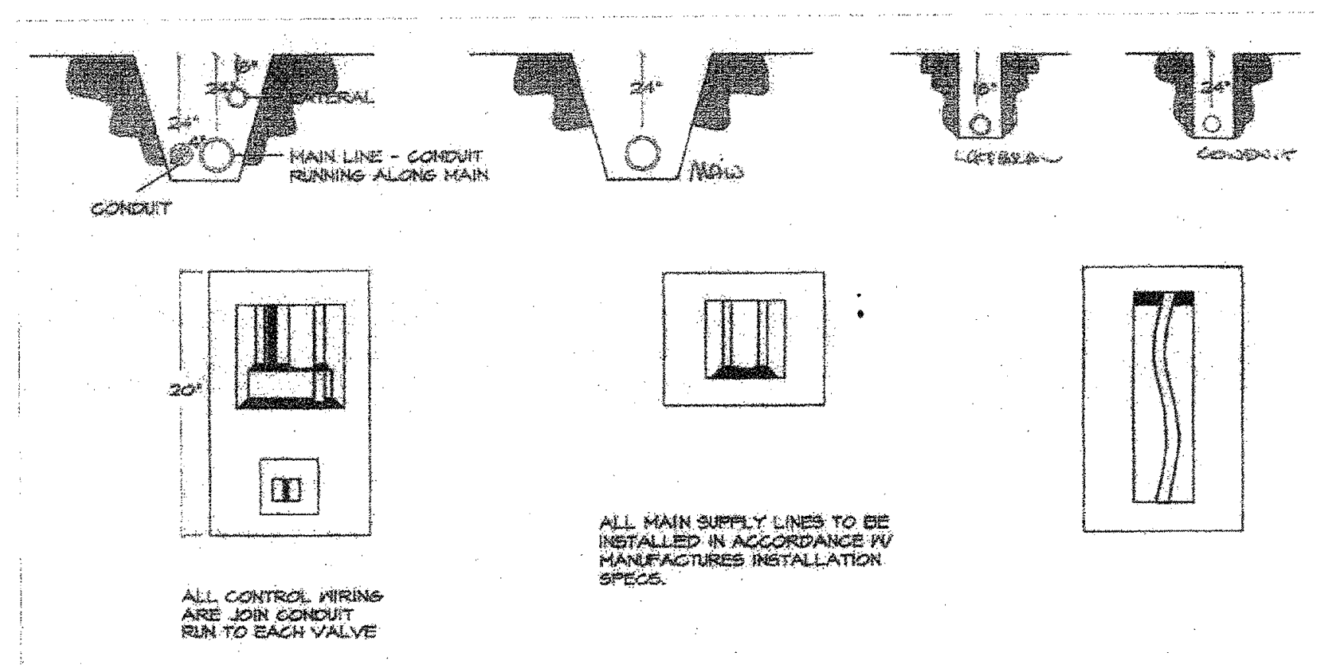
NOTE:
THRUSTS BLOCKS SHALL BE INSTALLED AT ALL PLACES WHERE A CHANGE OF DIRECTION OCCURS AT ALL SIZES IN THE SCHEDULE 40 MAINLINE

11 THRUST BLOCKS
L3.01 NTS

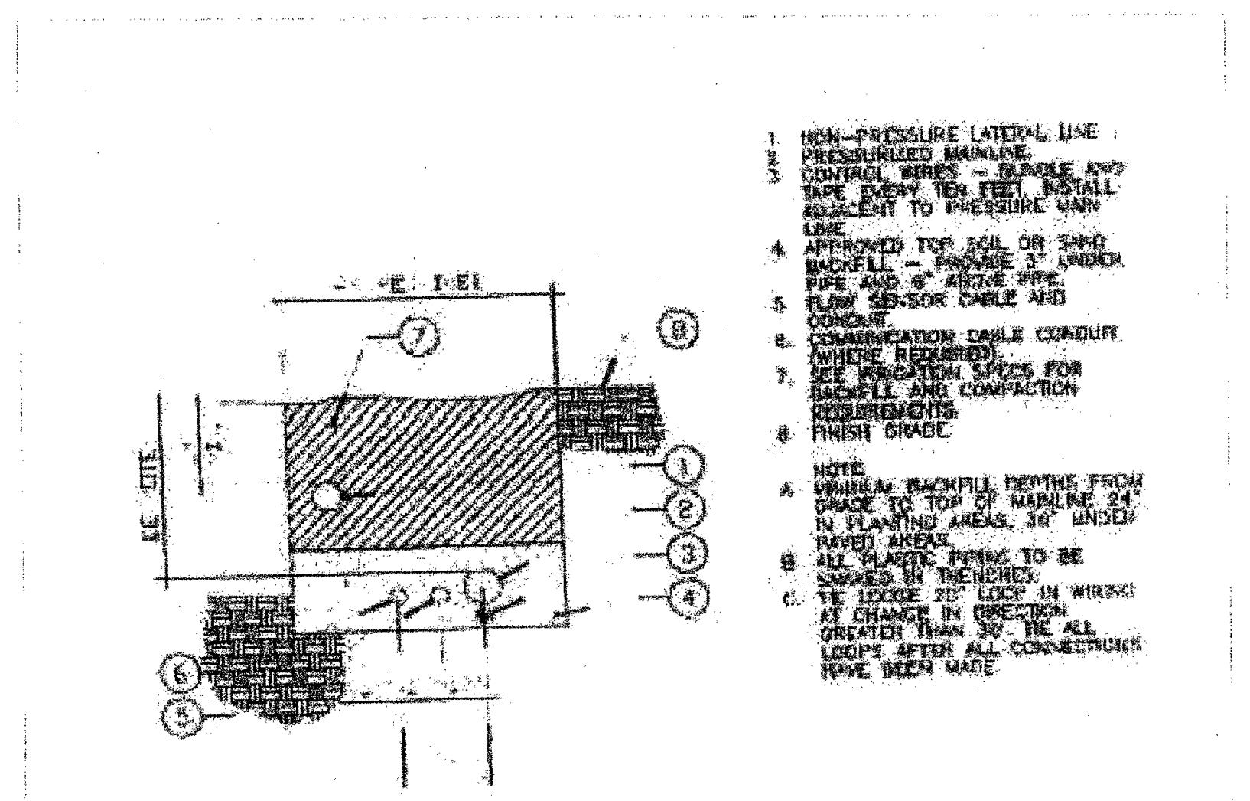

VARIES - 8'-0" MAXIMUM

1. DOUBLE 10 GAGE WIRE REINFORCED W/ RUBBER HOSE
2. 2-2" X 2" WOOD STAKES PERPENDICULAR TO WIND DIRECTION
3. 6" DEEP WATER BASIN
4. FINISH GRADE
5. BACKFILL MIX - SEE SPECIFICATIONS
6. HOLE SIZE - SEE SPECIFICATIONS
7. FOOT TAMPED BACKFILL
8. F RWS ROOT WATERING SYSTEM SEE DETAIL-FOR SPECIFICATIONS

12 TREE STAKING/PLANTING DETAIL
L3.01 NTS


MAIN LINE - CONDUIT RUNNING ALONG MAIN
CONDUIT
ALL CONTROL WIRING ARE 20R CONDUIT RUN TO EACH VALVE
ALL MAIN SUPPLY LINES TO BE INSTALLED IN ACCORDANCE W/ MANUFACTURES INSTALLATION SPECS.

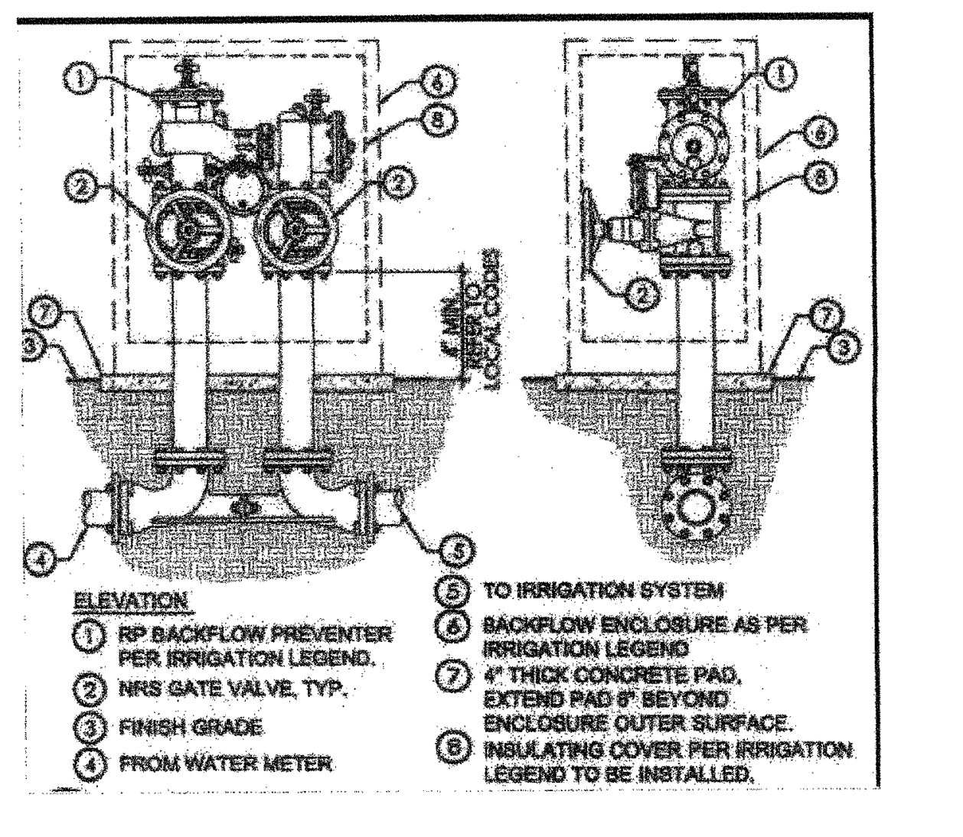
13 TYPICAL TRENCHING DETAILS
L3.01 NTS



1. NON-PRESSURE LATERAL LINE
2. PRESSURIZED MAINLINE
3. CONTROL WIRES - BUNDLE AND TAPE EVERY TEN FEET. INSTALL ADJACENT TO PRESSURE MAIN LINE.
4. APPROVED TOP SOIL OR SAND BACKFILL - PROVIDE 3" UNDER PIPE AND 6" ABOVE PIPE.
5. FLOW SENSOR CABLE AND CONDUIT
6. COMMUNICATION CABLE CONDUIT (WHERE REQUIRED).
7. SEE IRRIGATION SPECS FOR BACKFILL AND COMPACTION REQUIREMENTS.
8. FINISH GRADE

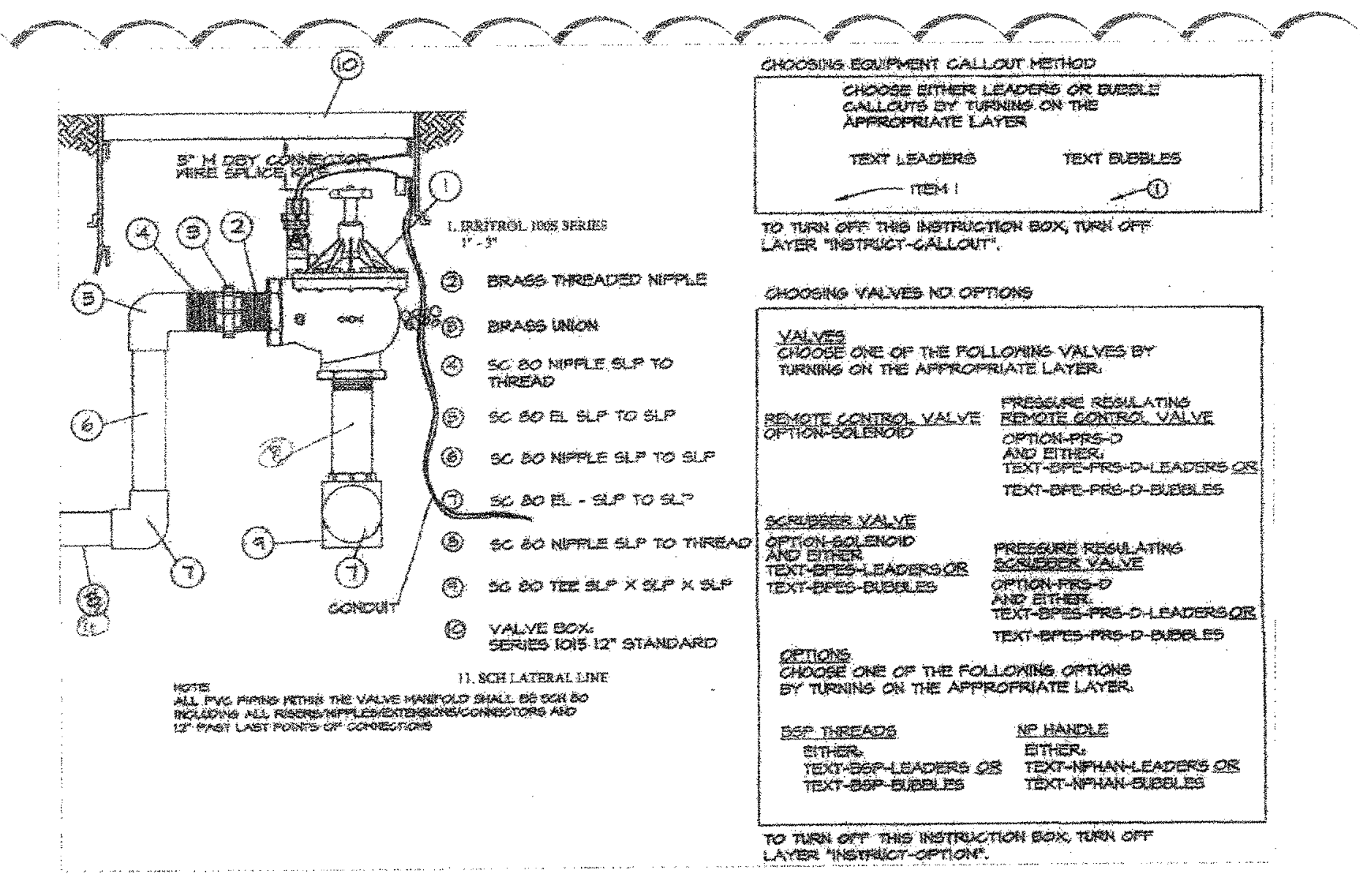
NOTE:
A. MINIMUM BACKFILL DEPTHS FROM GRADE TO TOP OF MAINLINE 24" IN PLANTING AREAS, 36" UNDER PAVED AREAS.
B. ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES.
C. TIE LOOSE 20" LOOP IN WIRING AT CHANGE IN DIRECTION GREATER THAN 30°. TIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.

14 TRENCHING DETAIL WITHIN LANDSCAPE
L3.01 NTS


4" MIN. REFER TO LOCAL CODES

ELEVATION
1. RP BACKFLOW PREVENTER PER IRRIGATION LEGEND.
2. NRS GATE VALVE, TYP.
3. FINISH GRADE
4. FROM WATER METER
5. TO IRRIGATION SYSTEM
6. BACKFLOW ENCLOSURE AS PER IRRIGATION LEGEND
7. 4" THICK CONCRETE PAD, EXTEND PAD 6" BEYOND ENCLOSURE OUTER SURFACE.
8. INSULATING COVER PER IRRIGATION LEGEND TO BE INSTALLED.

15 BACKFLOW PREVENTER
L3.01 NTS


3" H DBY CONNECTOR WIRE SPLICE KIT
CONDUIT

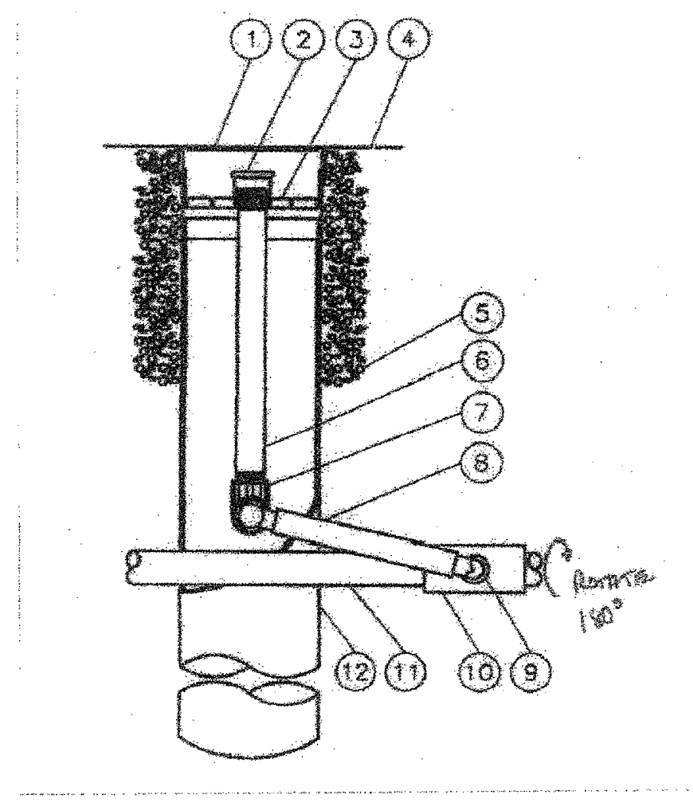
1. IRRITROL 100S SERIES 1" - 3"
2. BRASS THREADED NIPPLE
3. BRASS UNION
4. SC 80 NIPPLE SLP TO THREAD
5. SC 80 EL SLP TO SLP
6. SC 80 NIPPLE SLP TO SLP
7. SC 80 EL - SLP TO SLP
8. SC 80 NIPPLE SLP TO THREAD
9. SC 80 TEE SLP X SLP X SLP
10. VALVE BOX: SERIES 1015 12" STANDARD
11. SCH LATERAL LINE

NOTE:
ALL PVC PIPING WITHIN THE VALVE MANIFOLD SHALL BE SCH 80 INCLUDING ALL RISERS/NIPPLES/EXTENSIONS/CONNECTORS AND 12" PAST LAST POINTS OF CONNECTIONS

CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS — ITEM 1
TEXT BUBBLES — ①
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

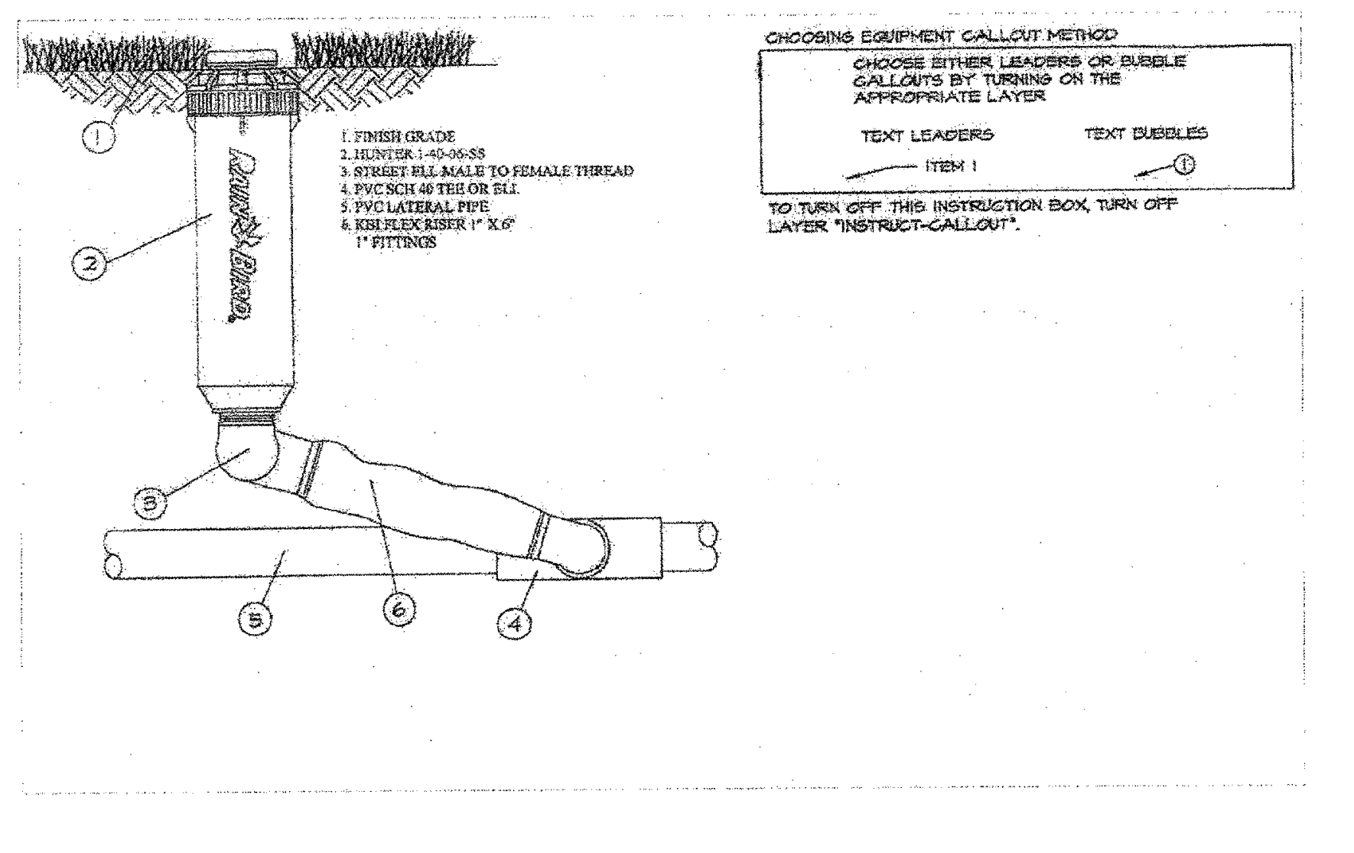
CHOOSING VALVES ND OPTIONS
VALVES
CHOOSE ONE OF THE FOLLOWING VALVES BY TURNING ON THE APPROPRIATE LAYER.
REMOTE CONTROL VALVE
OPTION-SOLENOID
PRESSURE REGULATING REMOTE CONTROL VALVE
OPTION-PRS-D AND EITHER: TEXT-BPE-PRS-D-LEADERS OR TEXT-BPE-PRS-D-BUBBLES
SCRUBBER VALVE
OPTION-SOLENOID AND EITHER TEXT-BPES-LEADERS OR TEXT-BPES-BUBBLES
PRESSURE REGULATING SCRUBBER VALVE
OPTION-PRS-D AND EITHER: TEXT-BPES-PRS-D-LEADERS OR TEXT-BPES-PRS-D-BUBBLES
OPTIONS
CHOOSE ONE OF THE FOLLOWING OPTIONS BY TURNING ON THE APPROPRIATE LAYER.
BSP THREADS
EITHER: TEXT-BSP-LEADERS OR TEXT-BSP-BUBBLES
NP HANDLE
EITHER: TEXT-NPHAN-LEADERS OR TEXT-NPHAN-BUBBLES
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-OPTION".

6 ELECTRICAL CONTROL VALVE
L3.01 NTS

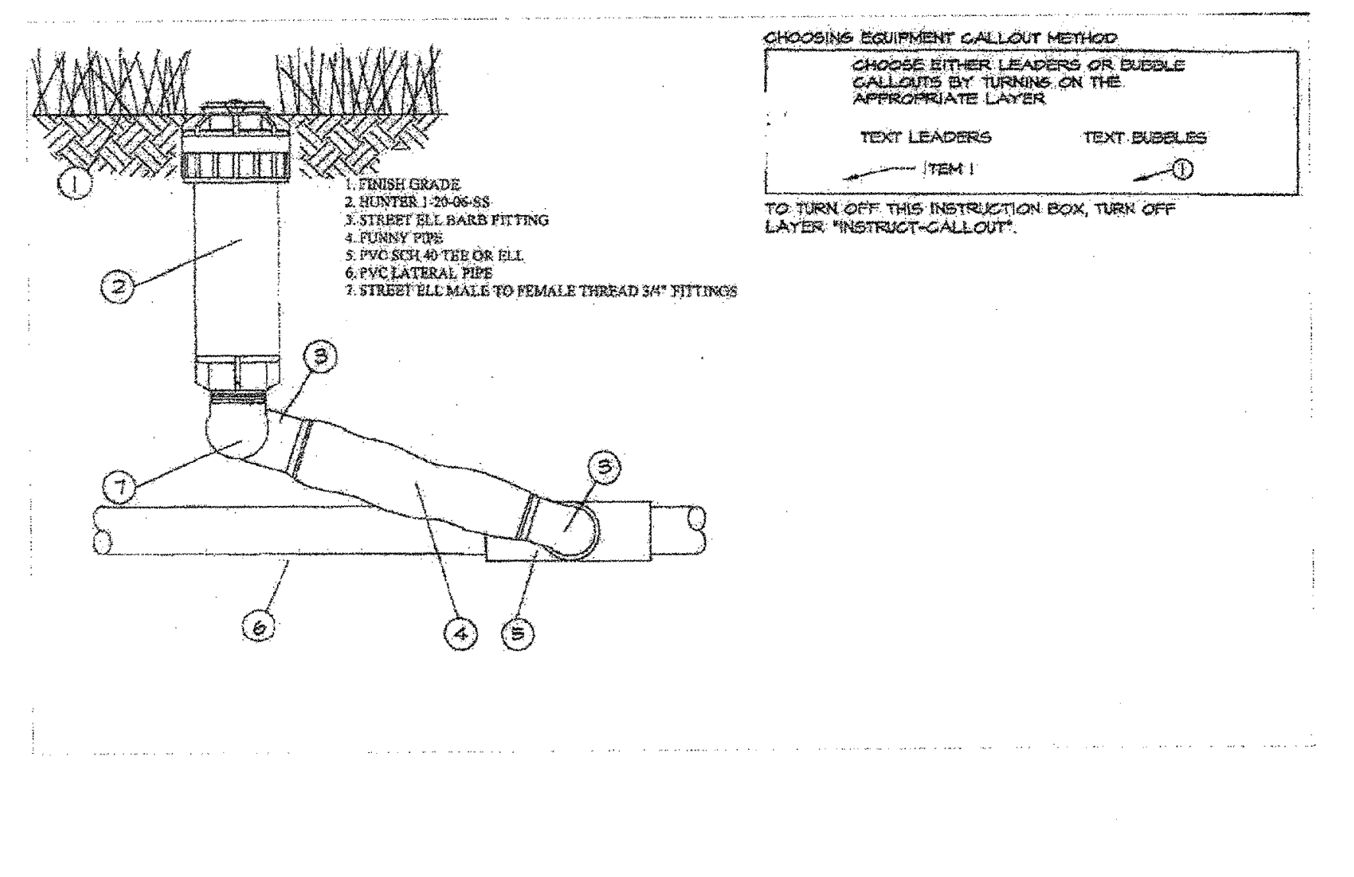


1. 4-INCH GRATE (INCLUDED)
2. BUBBLER: RAIN BIRD 1402 0.5 GPM (INCLUDED)
3. ROOT WATERING SYSTEM: RAIN BIRD RWS-B602 (INCLUDES 1402 0.52 GPM BUBBLER WITH RISER, GRATE, SWING ASSEMBLY 1/2" MALE NPT INLET, AND BASKET CANISTER)
4. FINISH GRADE
5. OPTIONAL PEA GRAVEL OR RWS SAND SOCK (RWS-SOCK) FOR SANDY SOILS
6. 1/2-INCH PVC SCH 80 NIPPLE (INCLUDED)
7. 1/2-INCH 90-DEGREE ELBOW (INCLUDED)
8. 12-INCH SWING ASSEMBLY (INCLUDED)
9. 1/2-INCH MALE NPT INLET (INCLUDED)
10. PVC SCH 40 TEE OR EL
11. LATERAL PIPE
12. 4-INCH BASKET WEAVE CANISTER (INCLUDED)

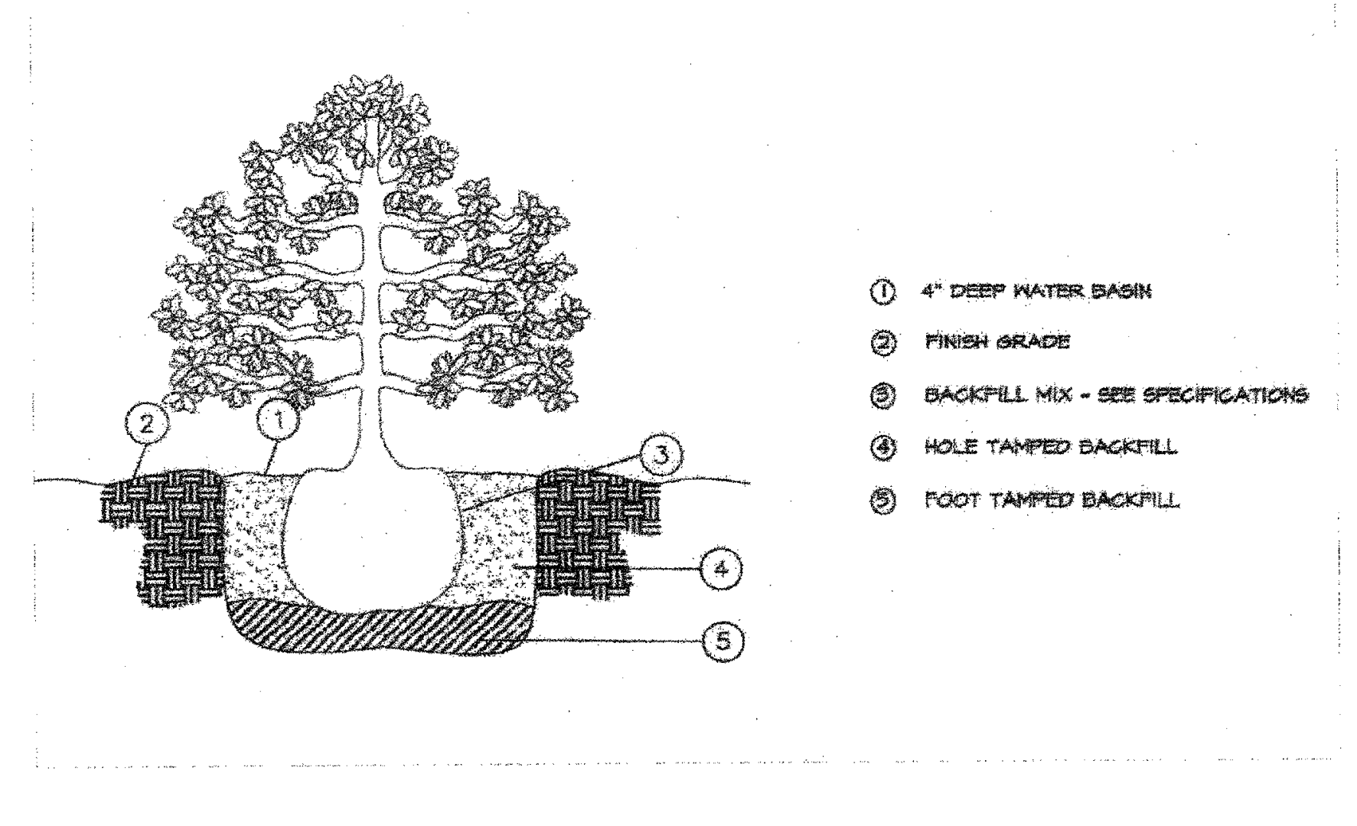
7 ROOT WATERING SYSTEM
L3.01 NTS


CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS
TEXT BUBBLES
ITEM 1
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

8 HUNTER 1-40-06-SS
L3.01 NTS

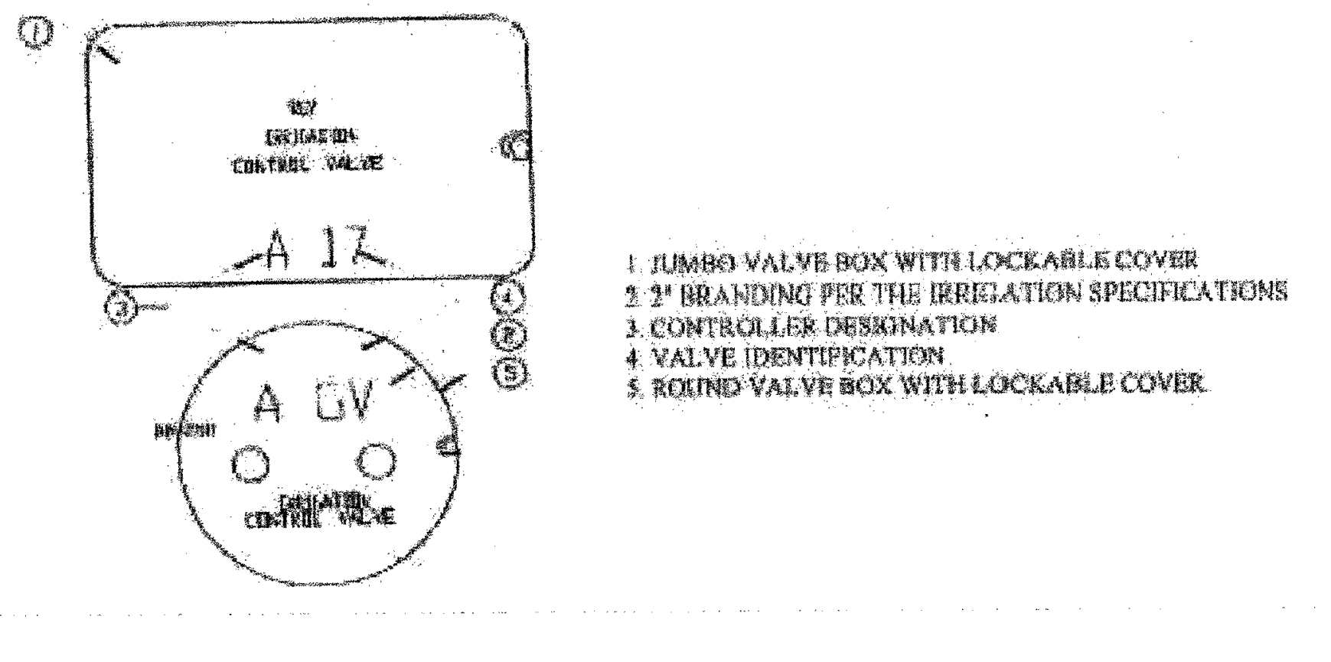

CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS
TEXT BUBBLES
ITEM 1
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

9 HUNTER 1-20-06-SS
L3.01 NTS



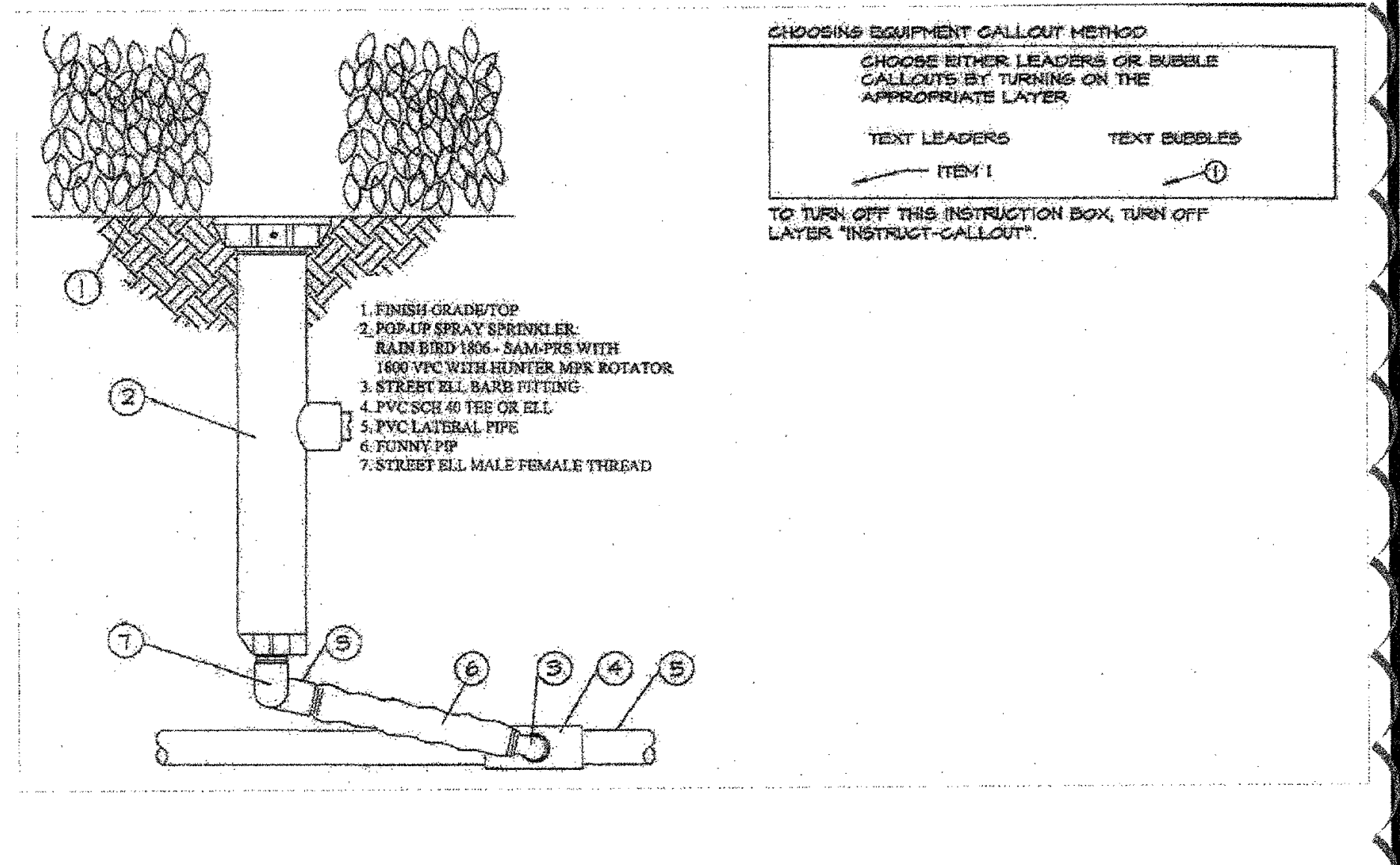
1. 4" DEEP WATER BASIN
2. FINISH GRADE
3. BACKFILL MIX - SEE SPECIFICATIONS
4. HOLE TAMPED BACKFILL
5. FOOT TAMPED BACKFILL

10 SHRUB PLANTING DETAIL
L3.01 NTS


A 17
A GV
IRRIGATION CONTROL VALVE

1. JUMBO VALVE BOX WITH LOCKABLE COVER
2. 2" BRANDING PER THE IRRIGATION SPECIFICATIONS
3. CONTROLLER DESIGNATION
4. VALVE IDENTIFICATION
5. ROUND VALVE BOX WITH LOCKABLE COVER

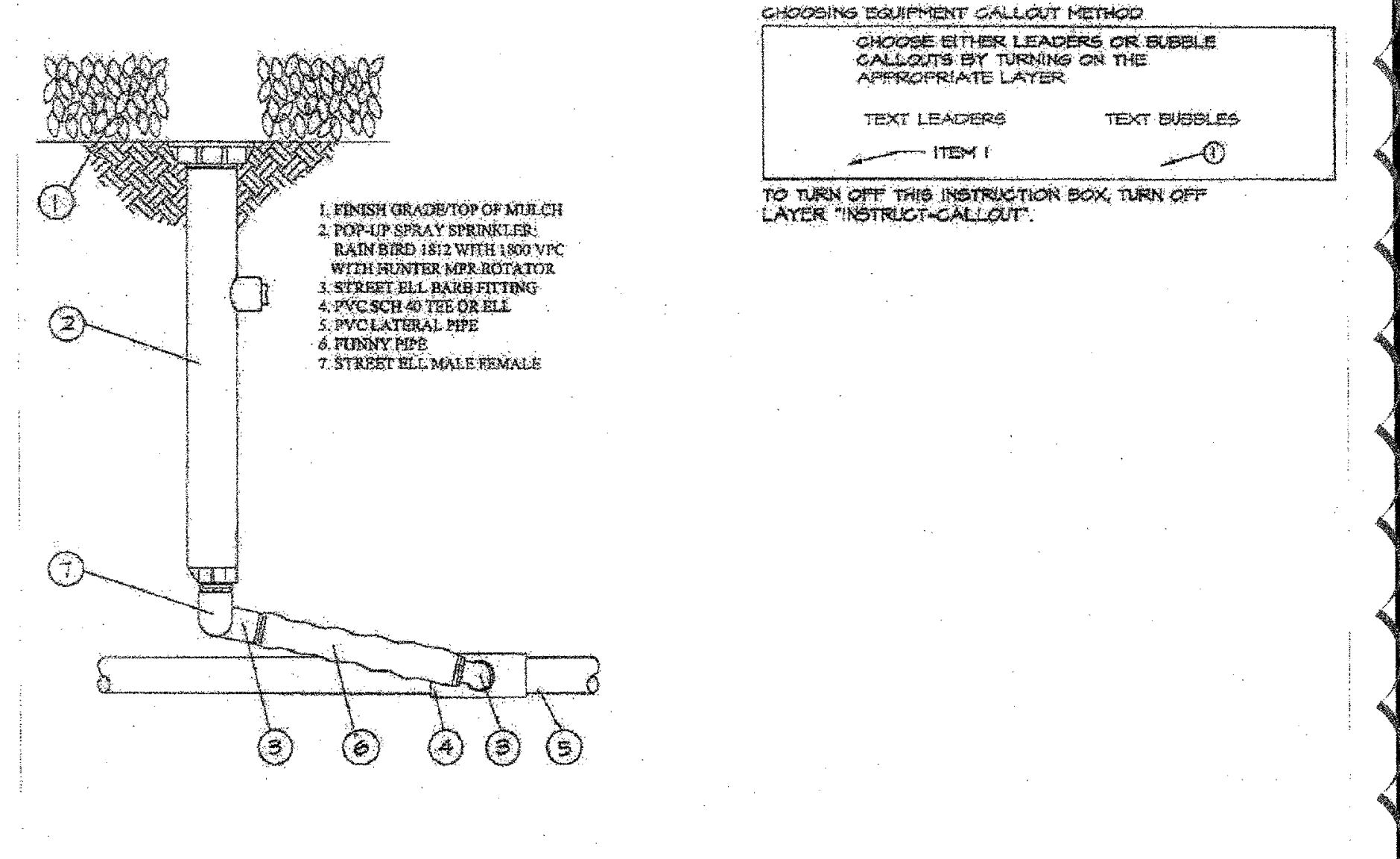
1 VALVE BOX HEAT BRANDING
L3.01 NTS



1. FINISH GRADE/TOP
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806 - SAM-PRS WITH 1800 VPC WITH HUNTER MPR ROTATOR
3. STREET ELL BARB FITTING
4. PVC SCH 40 TEE OR ELL
5. PVC LATERAL PIPE
6. FUNNY PIP
7. STREET ELL MALE FEMALE THREAD

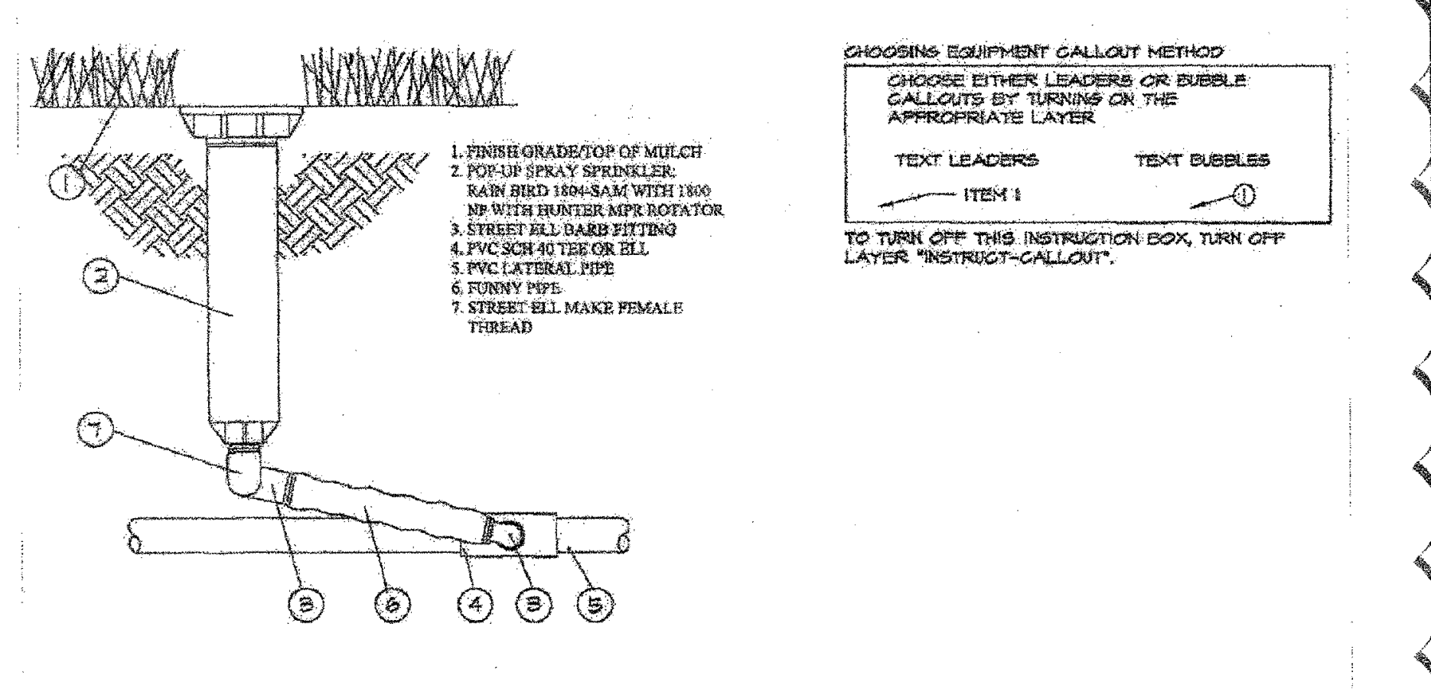
CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS — ITEM 1
TEXT BUBBLES — ①
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

2 POP UP SPRAY SPINKLER - 1806
L3.01 NTS


CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS
TEXT BUBBLES
ITEM 1
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

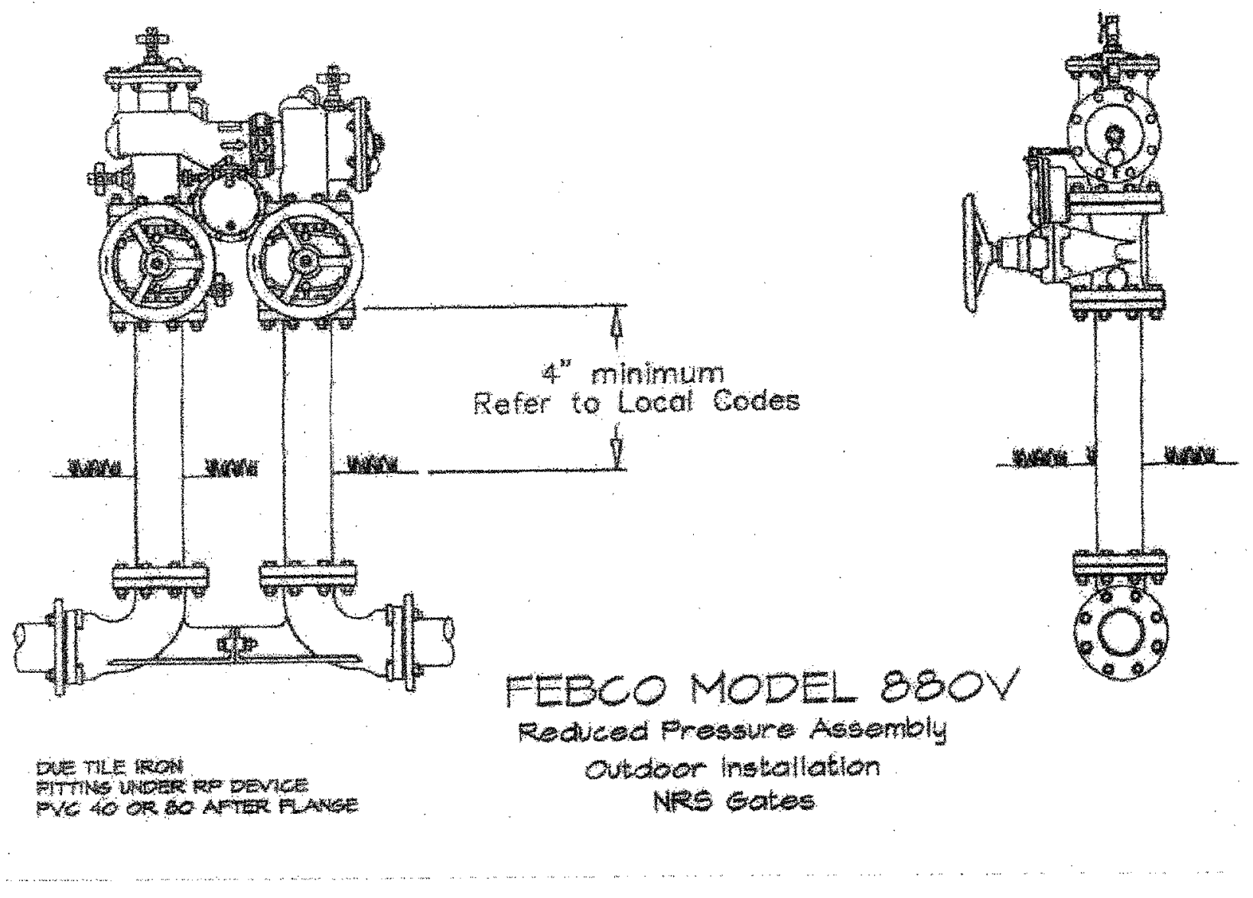
NO MARLEX

3 POP UP SPRINKLER - 1812
L3.01 NTS


CHOOSING EQUIPMENT CALLOUT METHOD
CHOOSE EITHER LEADERS OR BUBBLE CALLOUTS BY TURNING ON THE APPROPRIATE LAYER
TEXT LEADERS
TEXT BUBBLES
ITEM 1
TO TURN OFF THIS INSTRUCTION BOX, TURN OFF LAYER "INSTRUCT-CALLOUT".

NO MARLEX

4 POP UP SPRINKLER -1804
L3.01 NTS


4" minimum
Refer to Local Codes

DUE TILE IRON
FITTING UNDER RP DEVICE
PVC 40 OR 80 AFTER FLANGE

FEBCO MODEL 880V
Reduced Pressure Assembly
Outdoor Installation
NRS Gates

5 PRESSURE ASSEMBLY - 880V
L3.01 NTS

△2

G:\2017frs\17-5262 BCSD New Elementary\Sheets\L3.01 LANDSCAPE DETAILS.dwg RICHARD DELLANINI

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Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:
2	ADDENDUM 2	08.24.18			

Sheet Title:
LANDSCAPE DETAILS

Issue Date: 01–31–18
Date: 08/31/18
Designer: --
DR: --
PC: PC INITIALS

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Agency Approval Stamp:

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03–118394
AC SC FLS SH SS TN
DATE 4/08/19
TRACKING #: 63321–300
ADDENDUM # 2

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CURTIS E. FLYNN
No. C 28966

Job No.: 5262

Sheet No.: L3.01

Release: - ADDENDUM #2

SECURITY SYMBOL LIST

Ⓒ	FUTURE WALL MOUNTED CAMERA - PROVIDE ONE (1)4S BACK BOX, ONE (1)1G RING, ONE (1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE, ONE (1)DATA CABLE/JACK/MOD PLUG AND WEATHER PROOF FACEPLATE PER SPECIFICATIONS. @+96" T.O.B. UON.
ⒸA	FUTURE CEILING MOUNTED CAMERA - PROVIDE ONE (1)4S BACK BOX, ONE (1)1G RING, ONE (1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE, ONE (1)DATA CABLE/JACK AND WEATHER PROOF FACEPLATE PER SPECIFICATIONS.
ⒸB	FUTURE CEILING MOUNTED CAMERA - PROVIDE ONE (1)4S BACK BOX, ONE (1)1G RING, ONE (1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE, ONE (1)DATA CABLE/JACK AND WEATHER PROOF FACEPLATE PER SPECIFICATIONS.

CABINET/RACK SYMBOL LIST

MDF	MDF LOCATION
IDF	IDF LOCATION

CABLE SCHEDULE

DATA CABLE	-	4 PAIR TWISTED CABLE. SEE SPECIFICATIONS FOR PRODUCT DATA.

ACRONYMS & DEFINITIONS

#	-	AFTER SYMBOL IS EQUAL TO NUMBER OF CABLES
#"	-	MOUNTING HEIGHT ABOVE FINISHED FLOOR
AFF	-	ABOVE FINISHED FLOOR
B	-	BLANK
B.O.B.	-	BOTTOM OF BOX
C	-	CONDUIT
CAT#	-	DENOTES CATEGORY CABLE
D	-	DEMOLISH
E	-	EXISTING (LIGHT SYMBOLS)
EF	-	ENTRANCE FACILITY (AKA MPOE)
F	-	FUTURE, PROVIDE BLANK FACEPLATE FOR ALL FUTURE OUTLETS
FB#	-	FLOOR BOX NUMBER
HC	-	HORIZONTAL CROSS CONNECT (PREVIOUSLY KNOWN AS IDF)
IC	-	INTERMEDIATE CROSS CONNECT
MC	-	MAIN CROSS CONNECT (PREVIOUSLY KNOWN AS MDF)
MMF	-	MULITI-MODE FIBER OPTIC CABLE
MPOE	-	MAIN POINT OF ENTRY
N	-	NEW (DARK SYMBOLS)
PB	-	PULL BOX
PC	-	PULL CAN
R	-	REMOVE
RMU	-	RACK MOUNT UNITS
SER	-	SOUND EQUIPMENT RACK
SMF	-	SINGLE MODE FIBER OPTIC CABLE
SMR	-	SURFACE MOUNT RACEWAY
TC	-	TERMINAL CABINET
TE	-	TELECOMMUNICATIONS ENCLOSURE
TMGM	-	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
T.O.B.	-	TOP OF BOX
TR	-	TELECOMMUNICATIONS ROOM
UON	-	UNLESS OTHERWISE NOTED
UPS	-	UNINTERRUPTED POWER SUPPLY
W	-	WALL OUTLET MOUNTED @+48" AFF
WAP	-	WIRELESS ACCESS POINT @+96" AFF UON.
WG	-	WIRE GUARD
WP	-	WEATHER PROOF

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 16, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND THE 2013 CBC SECTION 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPOR THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD) PLUMBING PIPING (PP) ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD☐PP☐E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD☐PP☐E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # ____________

MP ☐ MD☐PP☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION 2009, INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RETRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL______ AND CONNECTION LEVEL ______ FOR THE PROJECT AND CONDITIONS.

SCOPE OF WORK

1. FUTURE SURVEILLANCE CAMERAS
   - 1.A. CONTRACTOR WILL PROVIDE BACK BOX AND CONDUIT INFRASTRUCTURE AS DESCRIBED IN THE DRAWINGS.
   - 1.B. CONTRACTOR WILL PROVIDE ONE (1) DATA CABLE AS SPECIFIED FROM THE CAMERA LOCATION TO THE NEAREST MDF/IDF.
     - 1.B.A. AT THE DEVICE SIDE, CONTRACTOR SHALL INSTALL A MOD PLUG, PER SPECIFICATIONS, NO JACKS AT THE DEVICE SIDE.
     - 1.B.B. CONTRACTOR WILL INSTALL A MODULAR JACK INTO THE MODULAR PATCH PANEL, PER SPECIFICATIONS.
     - 1.B.C. CONTRACTOR WILL PROVIDE A WEATHER PROOF FACE PLATE COVER ALL EXTERIOR VERTICALLY ORIENTED OUTLET BOXES.
     - 1.B.D. FOR ALL FUTURE SUSPENDED CEILING MOUNT CAMERAS, THE CONTRACTOR SHALL COIL THE CABLE ABOVE THE CEILING TILE, AND MARK THE CEILING GRID IN THE APPROXIMATE LOCATION WITH A MACHINE PRINTED LABEL CONTAINING THE IDF, PATCH PANEL, AND PORT NUMBER FOR THE CABLE.
     - 1.B.E. FOR ALL HARD LID CEILING MOUNTS THE CONTRACTOR WILL PROVIDE A BACK BOX AND BLANK FACE PLATE IN THE CEILING MATERIAL. THE FACE PLATE WILL BE LABELED WITH THE MDF/IDF, PATCH PANEL, AND PORT NUMBER FOR THE CABLE.

SHEET INDEX

SC-0.0 TITLE SHEET (THIS PAGE)
SC-1.1 BUILDING 'A' - FLOOR AND CEILING PLANS
SC-1.2 BUILDING 'B' - FLOOR PLAN
SC-1.3 BUILDING 'B' - CEILING PLAN

GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY LOW VOLTAGE AND TELECOM EQUIPMENT NECESSARY TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF LOW VOLTAGE AND TELECOM WORK.

B. ALL LOW VOLTAGE AND TELECOM WORK, MATERIALS AND EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, UNDERWRITERS LABORATORIES, BOARD OF UNDERWRITERS, OSHA, NEMA, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS AND CERTIFICATES OF REQUIRED ORDINANCES, AND DELIVER THEM TO THE OWNER'S REPRESENTATIVE.

C. UPON REVIEW OF THE DRAWINGS PRIOR TO SUBMITTING HIS PROPOSAL, THE LOW VOLTAGE AND TELECOM CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES WITHIN THE DRAWINGS AND REQUEST CLARIFICATION CONCERNING THE DISCREPANCIES. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS SHOULD SUCH PROCEDURE NOT BE FOLLOWED.

D. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION. THE CONTRACTOR SHALL ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER RELATION TO THE WORK AND EQUIPMENT OF OTHERS.

RACEWAYS

A. WHERE CONDUIT IS USED, 1" MINIMUM CONDUIT SHALL BE PROVIDED U.O.N.

B. EMPTY CONDUIT FOR OUTLETS SHALL BE 1" THIN WALL INSTALLED CONCEALED IN WALLS, TERMINATED AND BUSHED 6" IN ACCESSIBLE HUNG CEILING AND DIRECTED TOWARDS CLOSET. ALL EMPTY CONDUIT SHALL BE FURNISHED WITH A PULL STRING.

C. ALL CONDUITS INSTALLED OUTDOORS SHALL BE RIGID GALVANIZED WITH THREADED CONNECTIONS. ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SLABS SHALL BE RIGID PVC WITH A SEPARATE GROUNDING CONDUCTOR AND CONCRETE ENCASEMENT WHERE REQUIRED.

D. FLEXIBLE CONDUIT SHALL BE USED TO MAKE FINAL CONNECTIONS, AND WHERE THE INSTALLATION OF RIGID CONDUIT IS IMPRACTICAL.

E. WIRING SHALL BE INSTALLED CONCEALED IN WALLS, ABOVE CEILING OR BELOW FLOOR WHERE POSSIBLE. INSTALL CONDUIT PARALLEL TO BUILDING LINES. CLEAR ALL OPENINGS, PIPES, DUCTS, STRUCTURAL COMPONENTS, ETC.

F. INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN THREE 90 DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS, AND STEEL SUPPORTS AS REQUIRED.

G. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM AND THOROUGHLY CLEAN CONDUIT ENDS BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT CLEAN.

GROUNDING

A. ALL ELECTRICAL SYSTEMS SHALL BE GROUNDED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, THE LOCAL UTILITY COMPANY AND ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION. PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, PLANE BOARDS AND SYSTEM GROUNDING NEUTRAL.

B. GROUND CLAMPS SHALL BE LISTED SPECIFICALLY FOR GROUNDING. WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL GROUND BOTH CONDUCTOR AND CONDUIT.

Fred Brakeman

FRED BRAKEMAN
REG. NO: 07765
EXPIRES: 12-31-19
RCDD

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Sheet Title:
TITLE SHEET

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET AND MARDI GRAS COURT

Issue Date: 01/31/18
Date: 01/24/18
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DR:
PC: – –

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REN. 5-31-19

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SC-0.0

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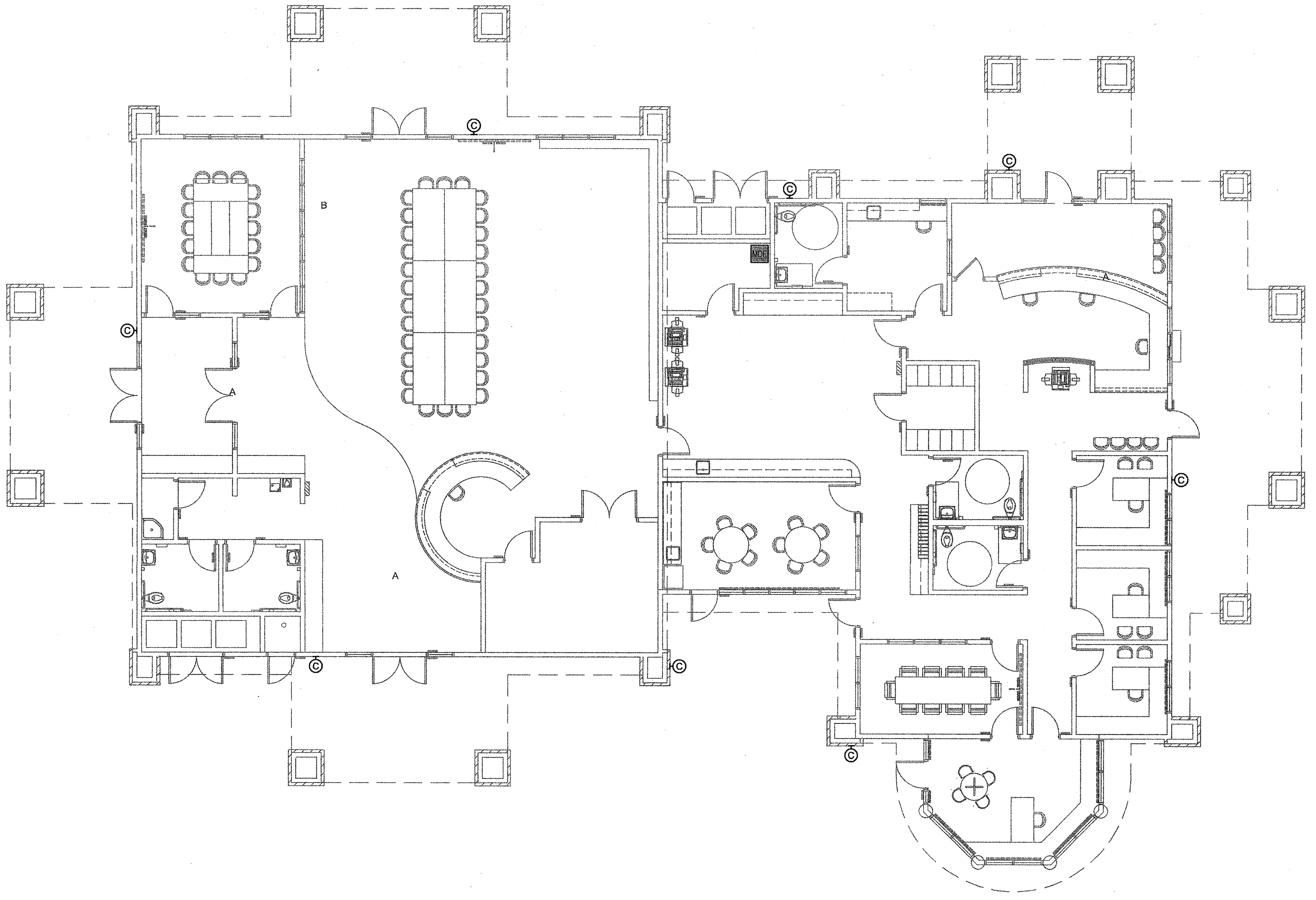
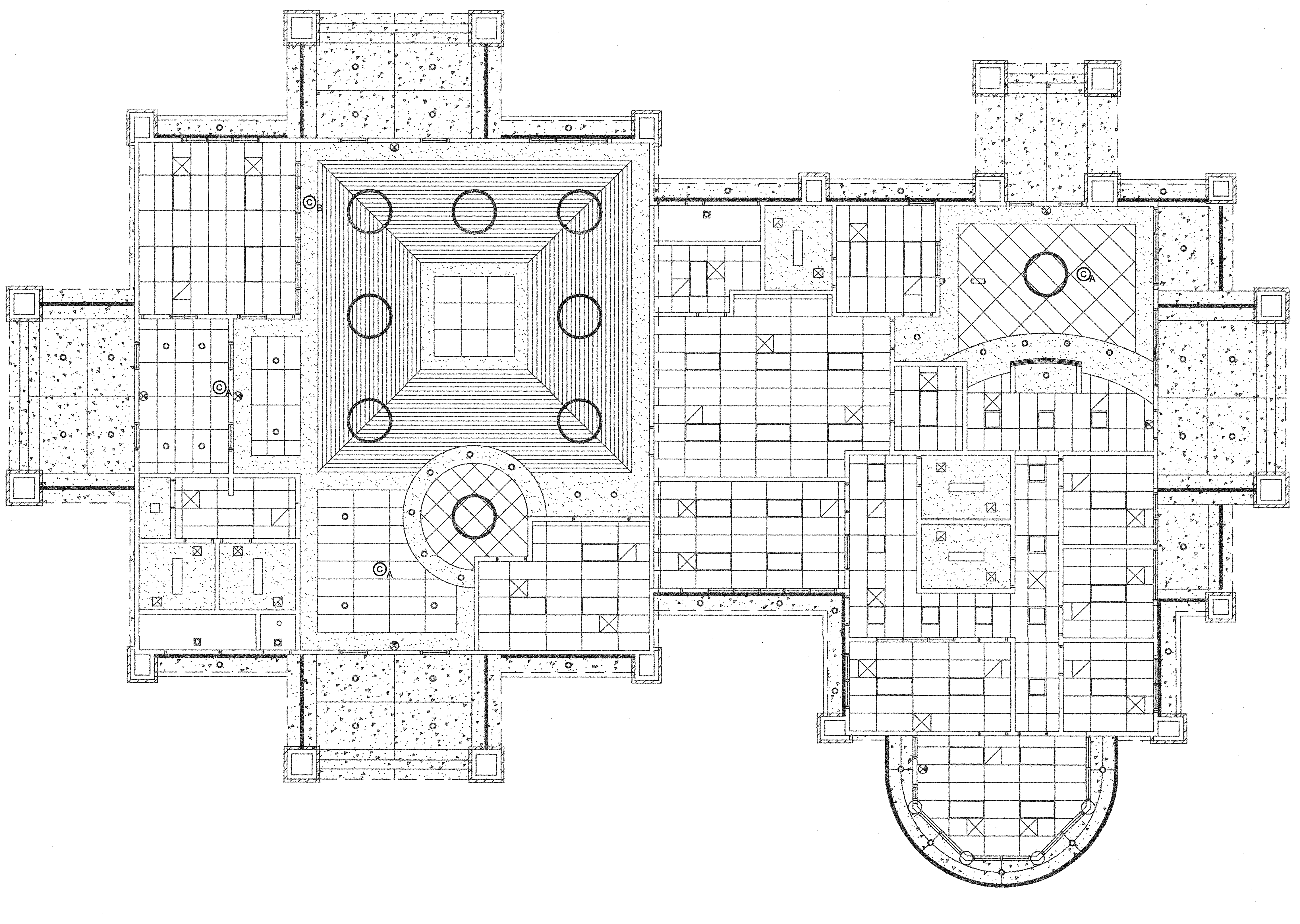


① BUILDING 'A' - ADMINSTRATION FLOOR PLAN

1/8" - 1'-0"



② BUILDING 'A' - ADMINISTRATION CEILING PLAN

1/8" - 1'-0"

SHEET NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

① (F)WALL MOUNTED SURVEILLANCE CAMERA, PER TITLE SHEET.
② (F)SUSPENDED CEILING MOUNTED SURVEILLANCE CAMERA, PER TITLE SHEET.
③ (F)HARD-LID CEILING MOUNTED SURVEILLANCE CAMERA, PER TITLE SHEET.

Fred Brakeman

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DR:
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BUILDING 'A' - FLOOR AND CEILING PLANS

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET AND MARDI GRAS COURT

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Sheet No.: **SC-1.1**

Release:

SHEET NOTES

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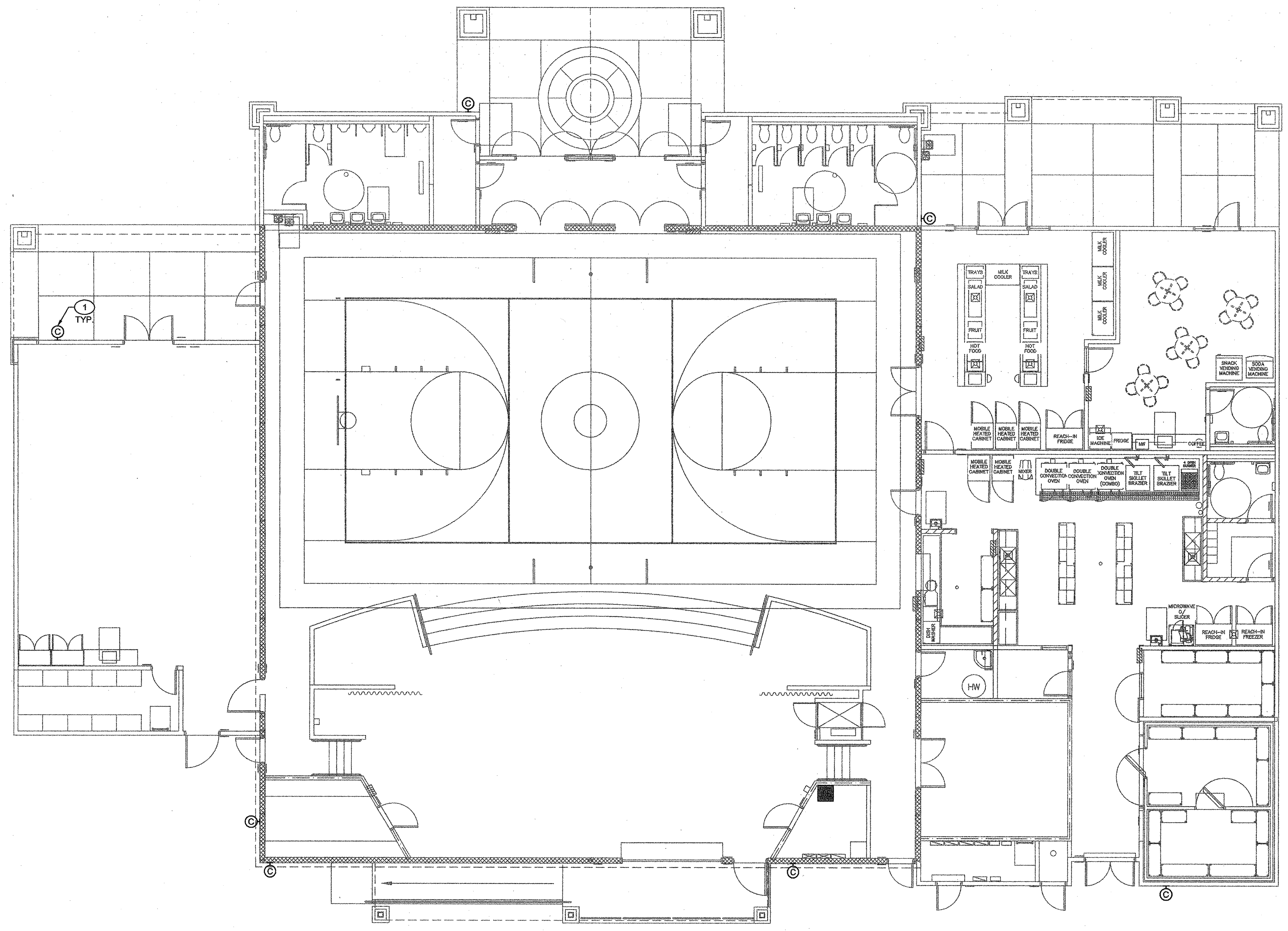
① (F)WALL MOUNTED SURVEILLANCE CAMERA, PER TITLE SHEET.



① TYP.
©
TRAYS
MILK COOLER
TRAYS
SALAD
SALAD
FRUIT
FRUIT
HOT FOOD
HOT FOOD
MILK COOLER
MILK COOLER
MILK COOLER
SNACK VENDING MACHINE
SODA VENDING MACHINE
MOBILE HEATED CABINET
MOBILE HEATED CABINET
MOBILE HEATED CABINET
REACH-IN FRIDGE
ICE MACHINE
FRIDGE
MW
COFFEE
MOBILE HEATED CABINET
MOBILE HEATED CABINET
MIXER
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN (COMBO)
TILT SKILLET BRAZIER
TILT SKILLET BRAZIER
4 OPEN BURNER
DISH WASHER
MICROWAVE O/ SLICER
REACH-IN FRIDGE
REACH-IN FREEZER
HW

① BUILDING 'B' - MULTIPURPOSE BUILDING FLOOR PLAN

1/8" - 1'-0"

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NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET AND MARDI GRAS COURT

Issue Date: 01/31/18
Date: 01/24/18
Designer:
DR:
PC: – –

Agency Approval Stamp:

FILE #: 15-6
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC ✓ FLS ✓ SS KW
DATE 06-22-18
TRACKING #: 63321-300

Stamp(s):

CURTIS E. FLYNN
No. C 28966
REN. 5-31-19

Fred Brakeman

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Job No.: **5262**

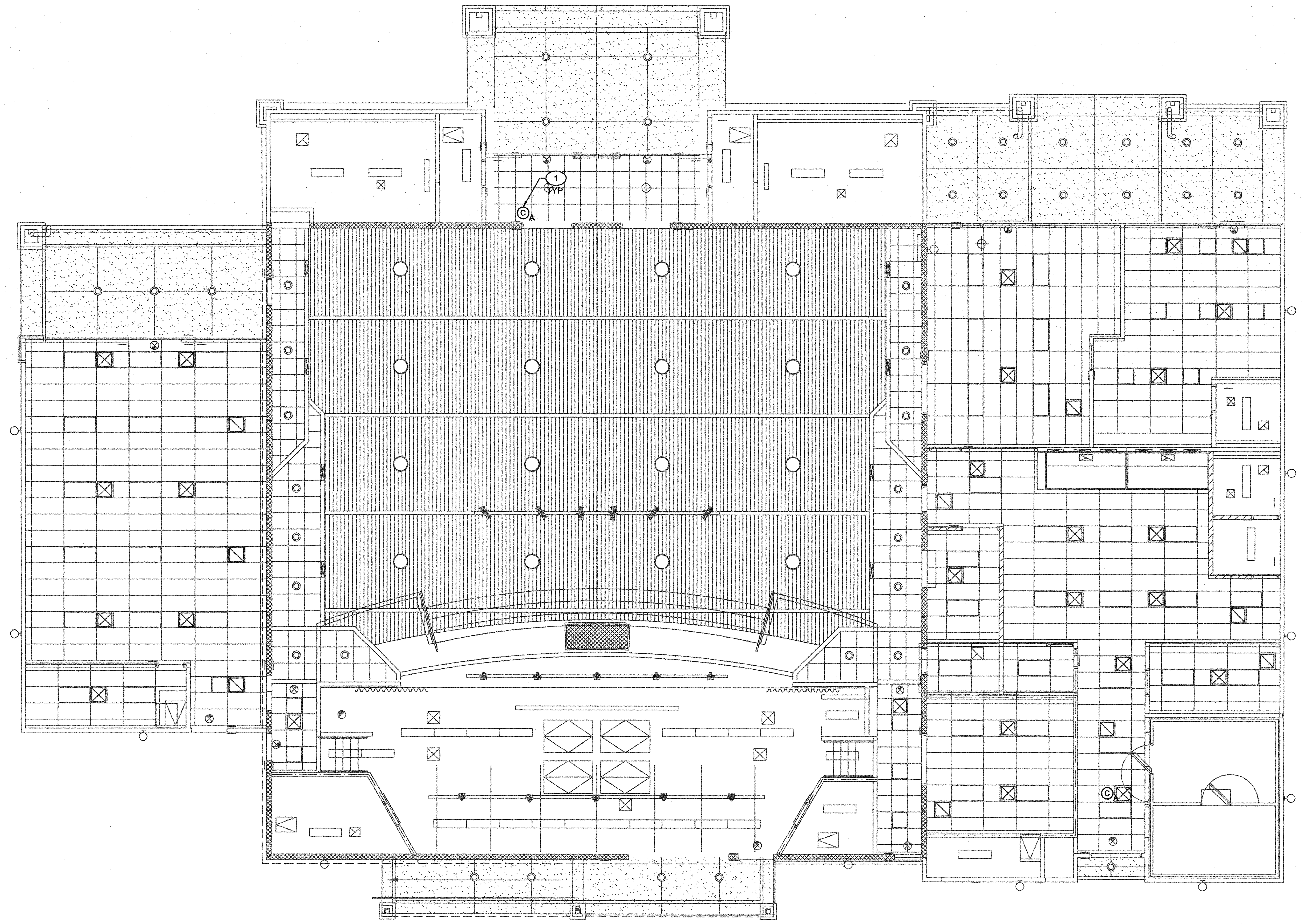
Sheet No.: **SC-1.2**

Release:

SHEET NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

① (F)SUSPENDED CEILING MOUNTED SURVEILLANCE CAMERA, PER TITLE SHEET.



① BUILDING 'B' - MULTIPURPOSE BUILDING CEILING PLAN

1/8" - 1'-0"

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Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:

Sheet Title:
BUILDING 'B' - CEILING PLAN

Project Name & Address:
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CURTIS E. FLYNN
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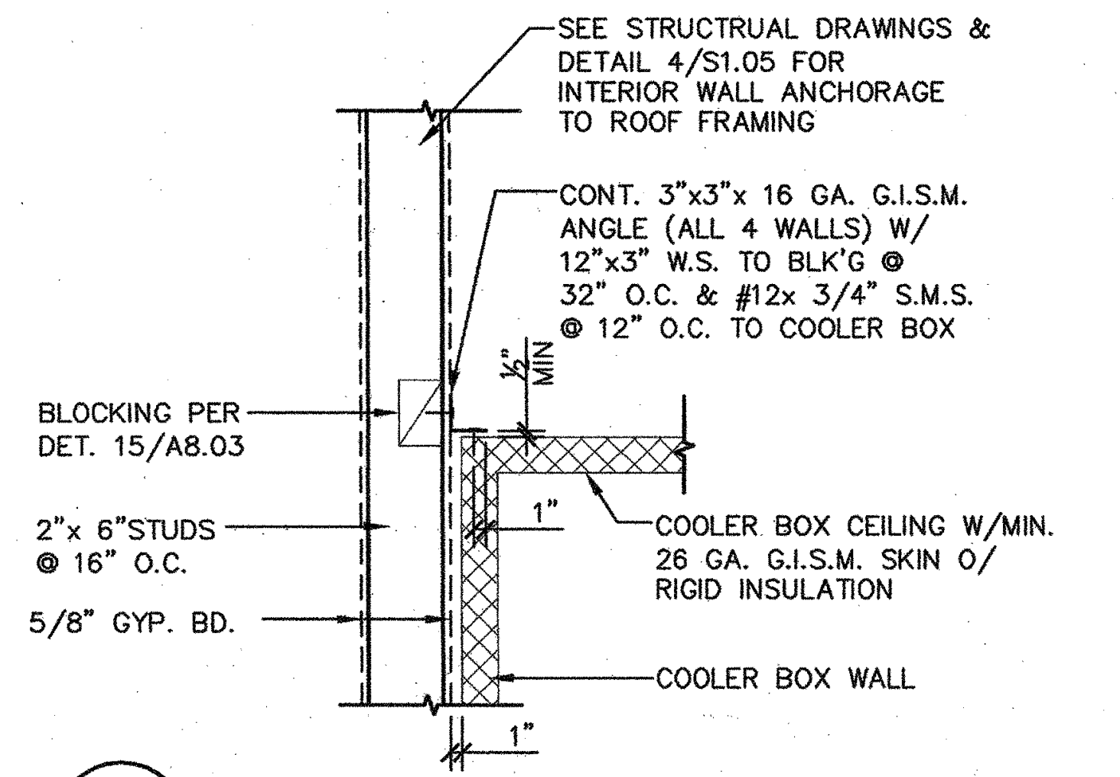
Job No.: **5262**

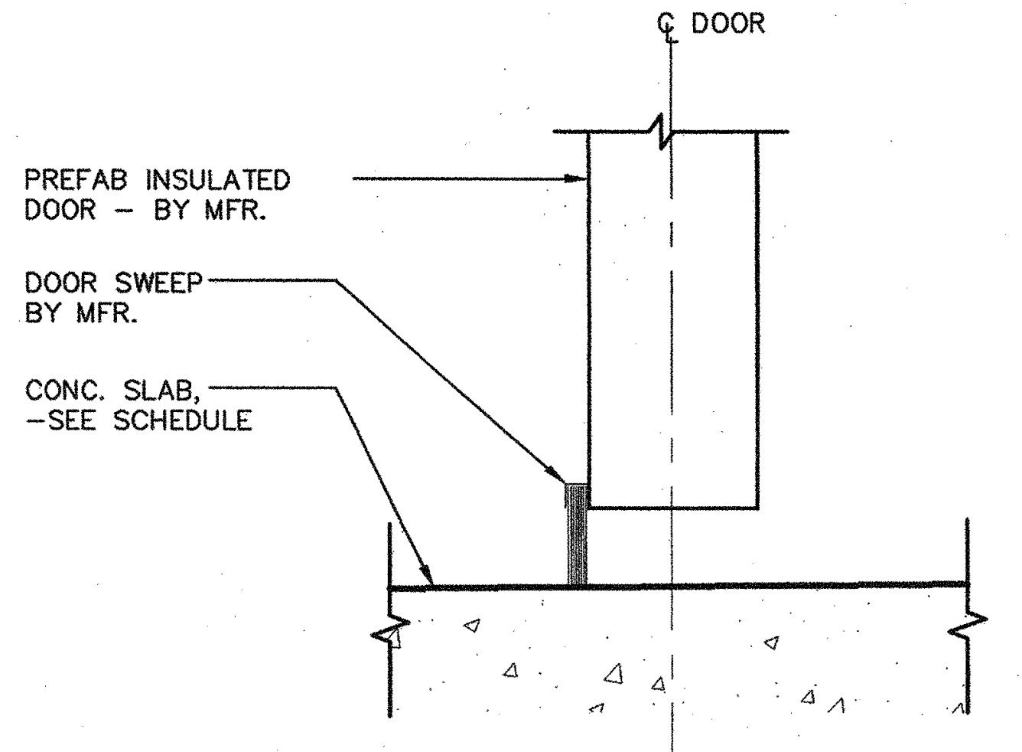
Sheet No.: **SC-1.3**

Release:


SEE STRUCTRUAL DRAWINGS & DETAIL 4/S1.05 FOR INTERIOR WALL ANCHORAGE TO ROOF FRAMING
CONT. 3"x3"x 16 GA. G.I.S.M. ANGLE (ALL 4 WALLS) W/ 12"x3" W.S. TO BLK'G @ 32" O.C. & #12x 3/4" S.M.S. @ 12" O.C. TO COOLER BOX
BLOCKING PER DET. 15/A8.03
2"x 6"STUDS @ 16" O.C.
5/8" GYP. BD.
COOLER BOX CEILING W/MIN. 26 GA. G.I.S.M. SKIN O/ RIGID INSULATION
COOLER BOX WALL
1"
3/4" MIN.

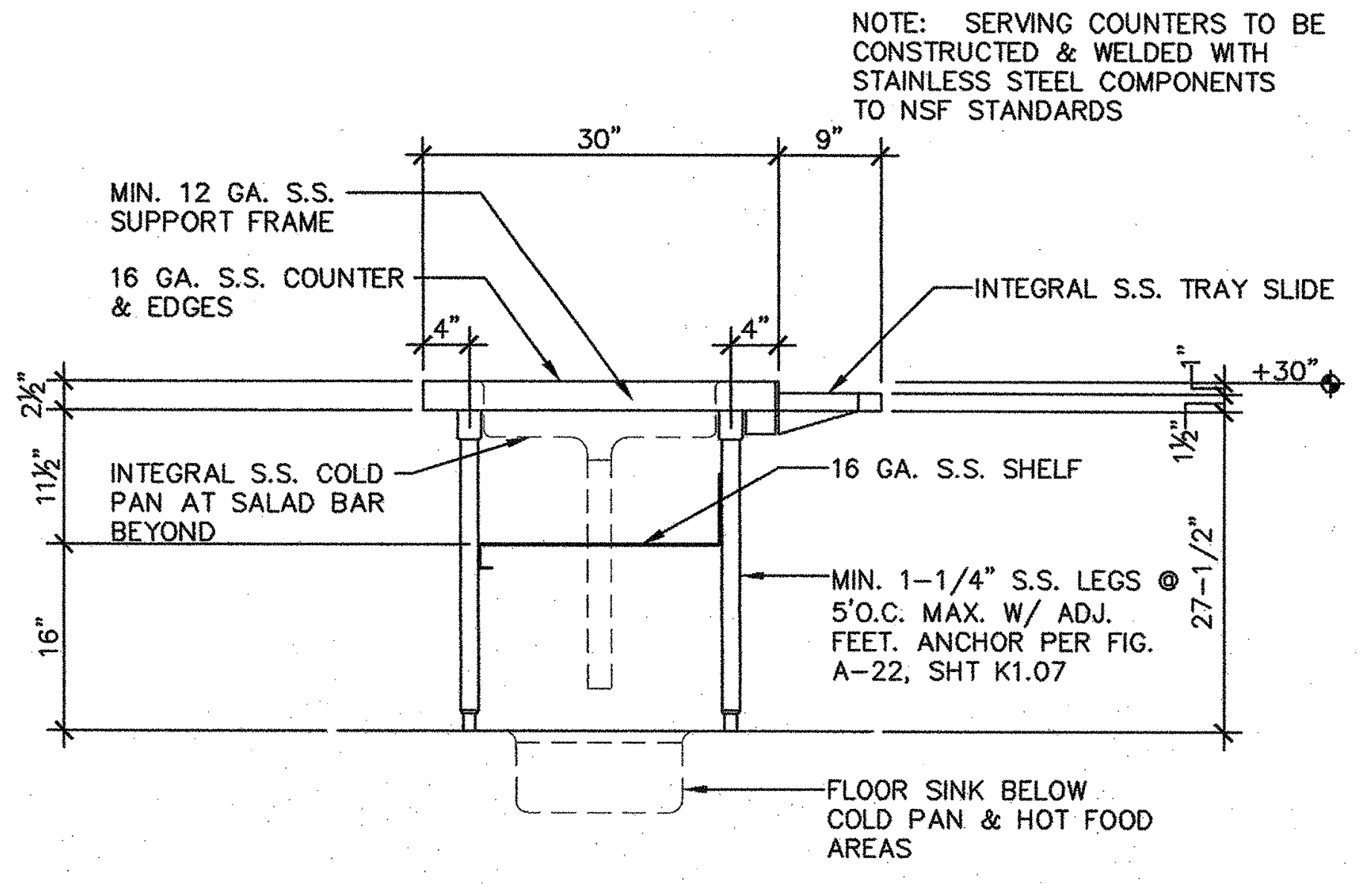
4 **K1.01** **COOLER BOX BRACING**

ADI200_16 SCALE: 3/4" = 1'-0"


℄ DOOR
PREFAB INSULATED DOOR - BY MFR.
DOOR SWEEP BY MFR.
CONC. SLAB, -SEE SCHEDULE

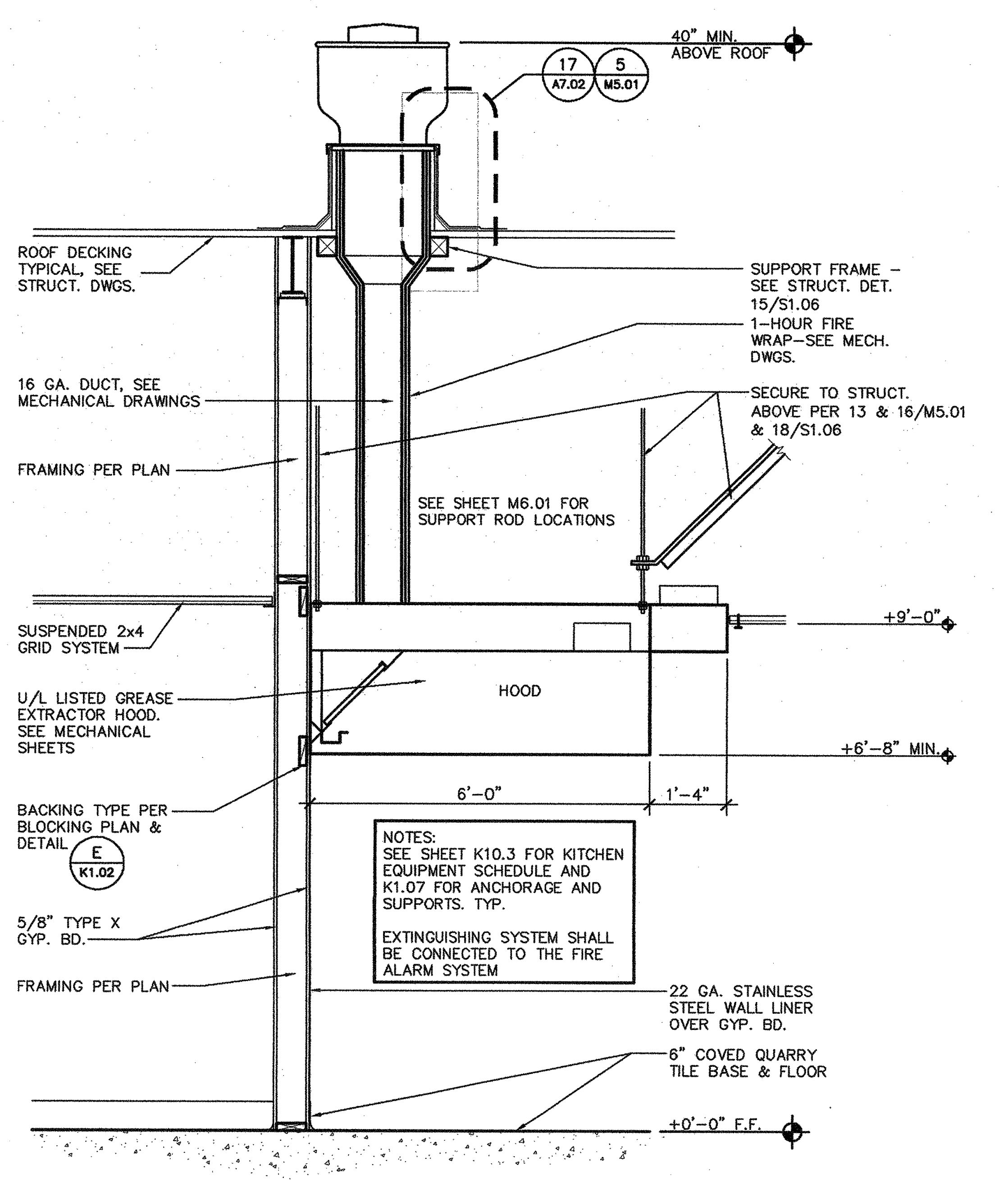
3 **K1.01** **PREFAB DOORS**

ADI200-15 SCALE: 6" = 1'-0"


NOTE: SERVING COUNTERS TO BE CONSTRUCTED & WELDED WITH STAINLESS STEEL COMPONENTS TO NSF STANDARDS
30"
9"
MIN. 12 GA. S.S. SUPPORT FRAME
16 GA. S.S. COUNTER & EDGES
INTEGRAL S.S. TRAY SLIDE
+30"
INTEGRAL S.S. COLD PAN AT SALAD BAR BEYOND
16 GA. S.S. SHELF
MIN. 1-1/4" S.S. LEGS @ 5'O.C. MAX. W/ ADJ. FEET. ANCHOR PER FIG. A-22, SHT K1.07
27-1/2"
16"
FLOOR SINK BELOW COLD PAN & HOT FOOD AREAS

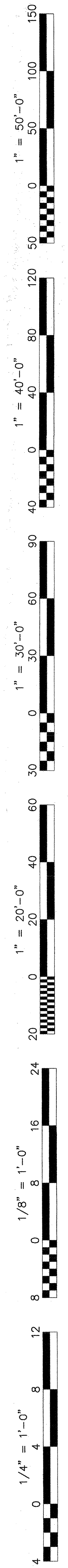
2 **K1.01** **SECTION THROUGH SERVING COUNTER**

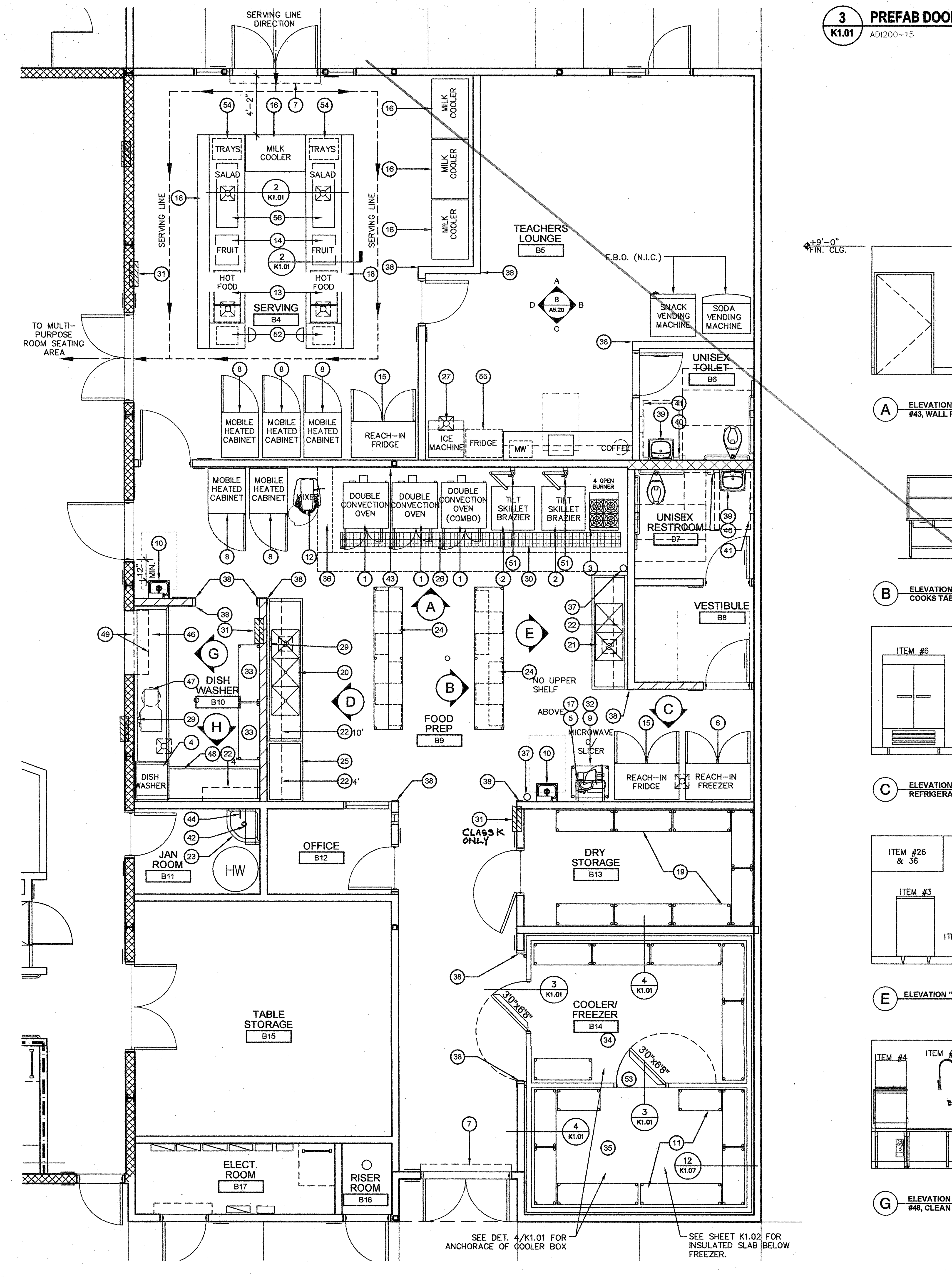
2-K1.01 SCALE: 3/4" = 1'-0"


40" MIN. ABOVE ROOF
17 A7.02
5 M5.01
ROOF DECKING TYPICAL, SEE STRUCT. DWGS.
SUPPORT FRAME - SEE STRUCT. DET. 15/S1.06
1-HOUR FIRE WRAP-SEE MECH. DWGS.
16 GA. DUCT, SEE MECHANICAL DRAWINGS
SECURE TO STRUCT. ABOVE PER 13 & 16/M5.01 & 18/S1.06
FRAMING PER PLAN
SEE SHEET M6.01 FOR SUPPORT ROD LOCATIONS
SUSPENDED 2x4 GRID SYSTEM
+9'-0"
U/L LISTED GREASE EXTRACTOR HOOD. SEE MECHANICAL SHEETS
HOOD
+6'-8" MIN.
6'-0"
1'-4"
BACKING TYPE PER BLOCKING PLAN & DETAIL E K1.02
NOTES: SEE SHEET K10.3 FOR KITCHEN EQUIPMENT SCHEDULE AND K1.07 FOR ANCHORAGE AND SUPPORTS. TYP.
EXTINGUISHING SYSTEM SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM
5/8" TYPE X GYP. BD.
FRAMING PER PLAN
22 GA. STAINLESS STEEL WALL LINER OVER GYP. BD.
6" COVED QUARRY TILE BASE & FLOOR
+0'-0" F.F.

1 **K1.01** **SECTION THRU KITCHEN HOOD**

ADK230-01 SCALE: 1/2" = 1'-0"

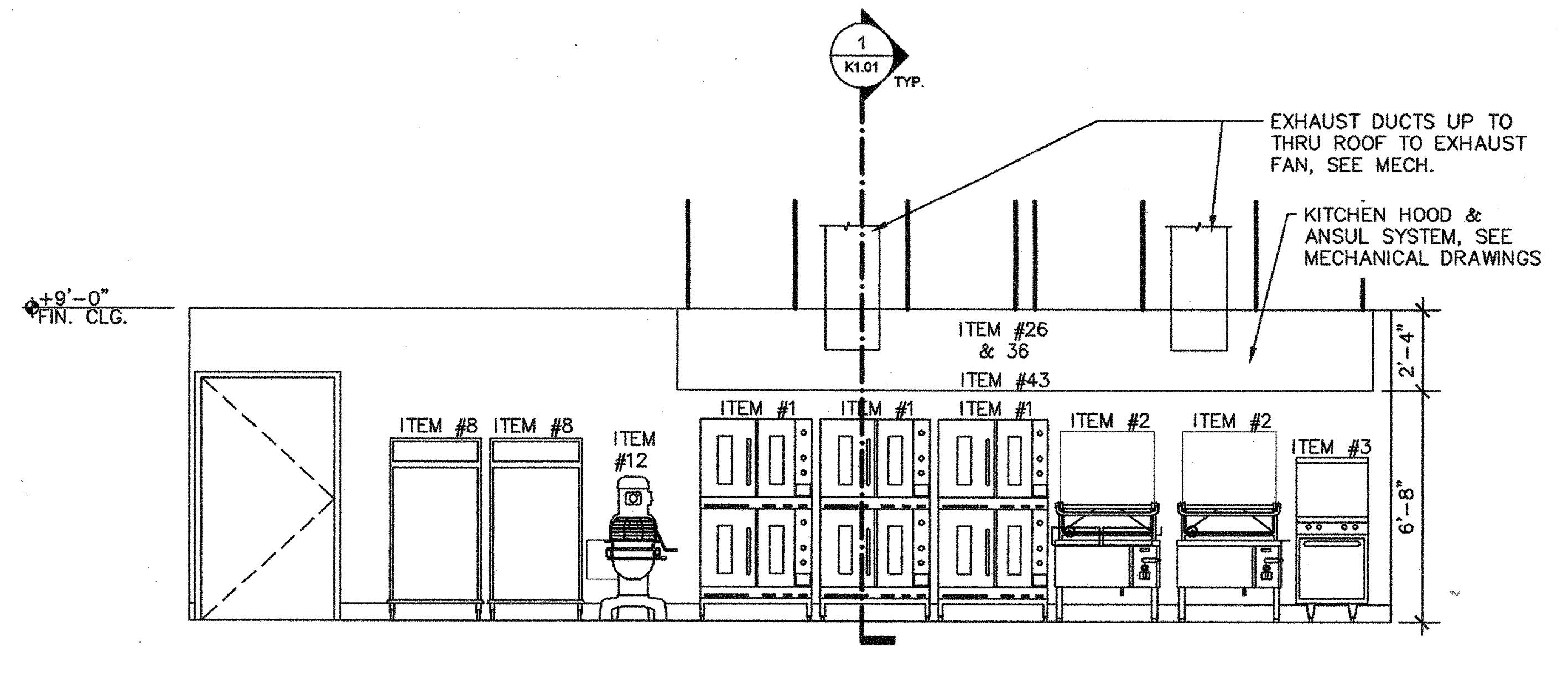

150
100
50
0
1" = 50'-0"
50
120
80
40
0
1" = 40'-0"
40
90
60
30
0
1" = 30'-0"
30
60
40
20
0
1" = 20'-0"
20
24
16
8
0
1/8" = 1'-0"
8
12
8
4
0
1/4" = 1'-0"
4


SERVING LINE DIRECTION
4'-2"
54
16
7
54
TRAYS
MILK COOLER
TRAYS
SALAD
SALAD
2 K1.01
56
14
FRUIT
FRUIT
HOT FOOD
HOT FOOD
13
SERVING
B4
52
SERVING LINE
SERVING LINE
18
31
MILK COOLER
MILK COOLER
MILK COOLER
16
38
TEACHERS LOUNGE
B5
F.B.O. (N.I.C.)
8 A5.20
A B C D
SNACK VENDING MACHINE
SODA VENDING MACHINE
TO MULTI-PURPOSE ROOM SEATING AREA
MOBILE HEATED CABINET
REACH-IN FRIDGE
ICE MACHINE
FRIDGE
MW
COFFEE
27
55
15
8
UNISEX TOILET
B6
39
40
41
MIXER
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN (COMBO)
TILT SKILLET BRAZIER
4 OPEN BURNER
UNISEX RESTROOM
B7
VESTIBULE
B8
10
12" MIN.
12
36
1
43
26
2
30
51
3
49
46
47
DISH WASHER
B10
29
4
48
22
33
20
22 10'
25
22 4'
DISH WASHER
A
B
D
E
G
H
24
NO UPPER SHELF
FOOD PREP
B9
37
21
ABOVE
17
32
5
9
MICROWAVE / SLICER
REACH-IN FRIDGE
REACH-IN FREEZER
6
C
CLASS K ONLY
44
42
23
JAN ROOM
B11
HW
OFFICE
B12
DRY STORAGE
B13
19
TABLE STORAGE
B15
3 K1.01
4 K1.01
3'0"x6'8"
COOLER/ FREEZER
B14
34
53
35
11
12 K1.07
ELECT. ROOM
B17
RISER ROOM
B16
SEE DET. 4/K1.01 FOR ANCHORAGE OF COOLER BOX
SEE SHEET K1.02 FOR INSULATED SLAB BELOW FREEZER.

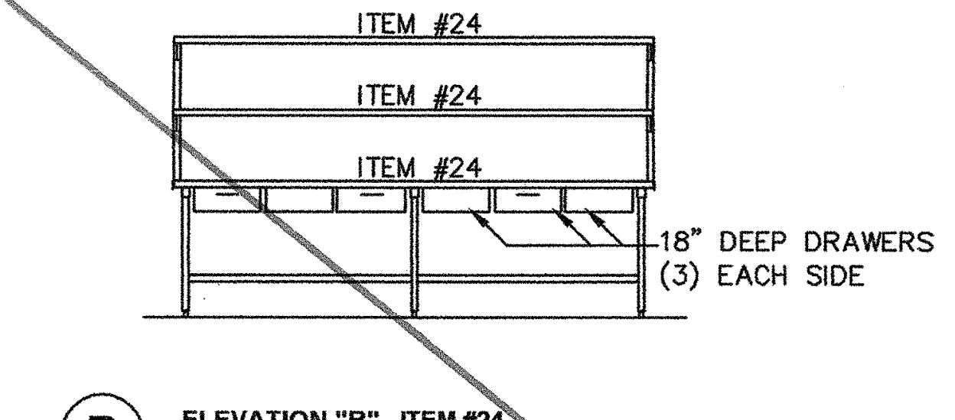
KITCHEN EQUIPMENT PLAN

INCREMENT 2

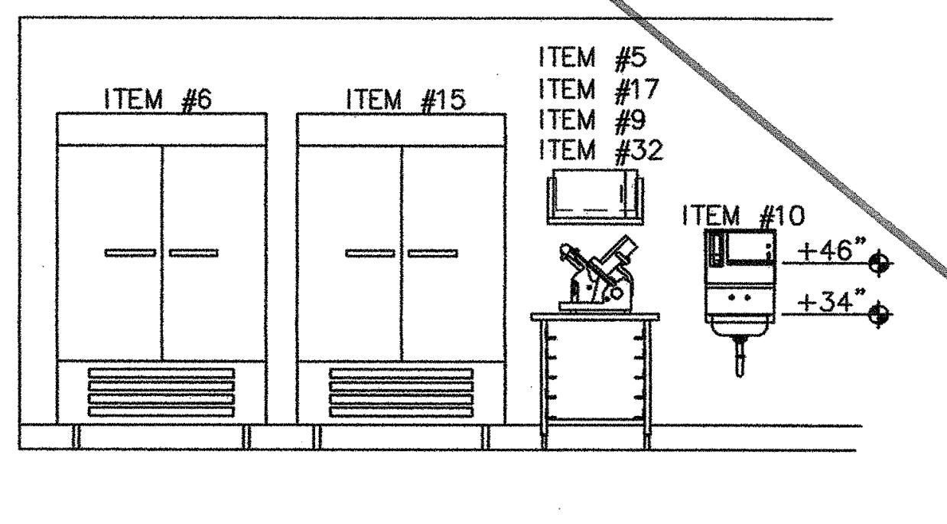
SCALE: 1/4" = 1'-0"


1 K1.01 TYP.
EXHAUST DUCTS UP TO THRU ROOF TO EXHAUST FAN, SEE MECH.
KITCHEN HOOD & ANSUL SYSTEM, SEE MECHANICAL DRAWINGS
+9'-0" FIN. CLG.
ITEM #26 & 36
ITEM #43
ITEM #8
ITEM #8
ITEM #12
ITEM #1
ITEM #1
ITEM #1
ITEM #2
ITEM #2
ITEM #3
2'-4"
6'-8"

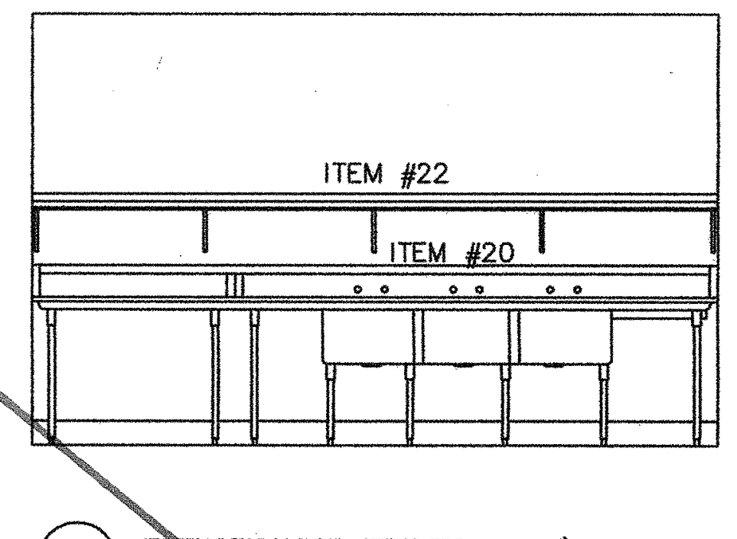
(A) ELEVATION "A" - ITEM #26, VENTILATOR #43, WALL FLASHING


ITEM #24
ITEM #24
ITEM #24
18" DEEP DRAWERS (3) EACH SIDE

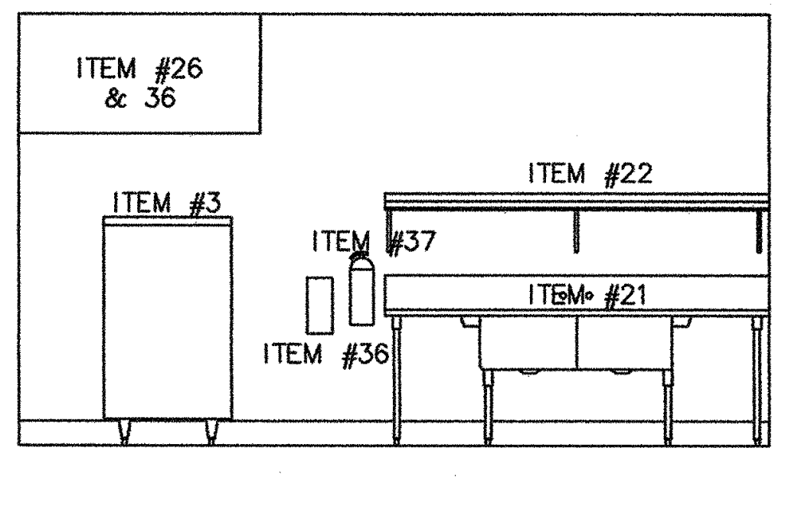
(B) ELEVATION "B" - ITEM #24, COOKS TABLE


ITEM #6
ITEM #15
ITEM #5
ITEM #17
ITEM #9
ITEM #32
ITEM #10
+46"
+34"

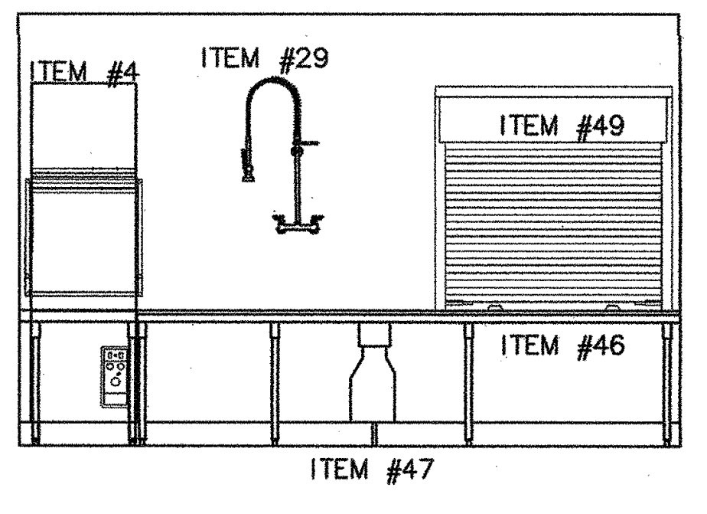
(C) ELEVATION "B" - ITEM #6 AND #15 REFRIGERATOR AND FREEZER


ITEM #22
ITEM #20

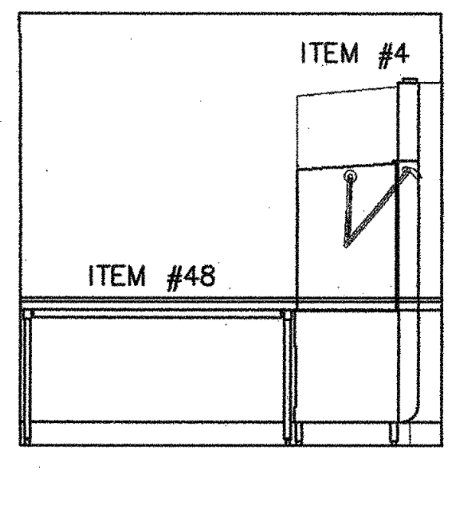
(D) ELEVATION "D" - ITEM #20, UTENSIL SINK


ITEM #26 & 36
ITEM #3
ITEM #37
ITEM #36
ITEM #22
ITEM #21

(E) ELEVATION "E"


ITEM #4
ITEM #29
ITEM #49
ITEM #46
ITEM #47

(G) ELEVATION "G" - ITEM #46, SOILED DISH TABLE #48, CLEAN DISH TABLE


ITEM #4
ITEM #48

(H) ELEVATION "H" - ITEM #48, CLEAN DISH TABLE

○ EQUIPMENT LEGEND

KITCHEN EQUIPMENT

[1] FBO	[2] F&I CONT.	[3] ITEM NO.	QTY.		DESCRIPTION	WEIGHT	ANCHORAGE
X		1	3	EACH	DOUBLE CONVECTION OVEN (1 COMBO UNIT)	1500	A-11 (OPTIONAL LEG) K1.07
X		2	2	EACH	TILT SKILLET	260	A-18/K1.07
X		3	1	EACH	RANGE, 24", 4 OPEN BURNER	500	A-11 (OPTIONAL LEG) K1.07
	X	4	1	EACH	DISHWASHER, DOOR TYPE	525	A-11 (OPTIONAL LEG) K1.07
X		5	1	EACH	MICROWAVE OVEN	59	NA
X		6	1	EACH	REACH-IN FREEZER	350	A-11 / K1.07
	X	7	2	EACH	AIR CURTAIN	84	SEE MECHANICAL DRAWINGS
X		8	5	EACH	MOBILE HEATED CABINET (W/ LOCKING WHEELS)	390	NA
X		9	1	EACH	SLICER	106	NA
	X	10	2	EACH	HAND SINK W/SOAP & PAPER TOWEL DISPENSER	38	SEE PLUMBING DRAWINGS & 15/A8.01
X		11	1	LOT	WIRE SHELVING	-	12 / K1.07
X		12	1	EACH	MIXER, 30 QUART	411	A-19/K1.07
X		13	1	LOT	HOT FOOD SERVING PANS ON COUNTER	140	NA
X		14	1	LOT	COLD SERVING PANS ON COUNTER	88	NA
X		15	2	EACH	REACH-IN FRIDGE	350	A-11/K1.07
X		16	4	EACH	MILK COOLER	307	A-11/K1.07
X		17	1	EACH	MICROWAVE SHELF	27	A-21/K1.07
X		18	2	EACH	CUSTOM FAB S.S. SERVING COUNTER WITH FLAT S.S. TRAY SLIDE, TEMPERED GLASS SNEEZE GUARD, & INTEGRAL MULTI-PAN RECESSED COLD FOOD WELL	375	
X		19	1	LOT	DRY STORAGE SHELVING	-	NA
	X	20	1	EACH	3 COMPARTMENT SINK W/DRAINBOARDS	235	A-2/K1.07
	X	21	1	EACH	2 COMPARTMENT SINK W/DRAINBOARDS	160	A-2/K1.07
	X	22	1		S.S. WALL SHELVES, VARIOUS LENGTHS AND LOCATIONS	-	A21/K1.07
	X	23	1	EACH	MOP SINK	-	SEE PLUMBING DRAWINGS
	X	24	2	EACH	SS WORK TABLE W/ DRAWERS, POT & PAN RACK BELOW, ONE WITH OVERSHELVES		A-1/K1.07
		25			S.S. WORK TABLE WITH INTRIGAL DRAWERS		
	X	26	2	EACH	TYPE 1 EXHAUST HOOD VENTILATOR SYSTEM SEE SHTS M6.01 TO M6.03	966	SEE MECHANICAL DRAWINGS
X		27	1	EACH	ICE MACHINE W/ STORAGE BIN	1402	C/A-22 / K1.07
		28	1	SET	WATER REFILL DOUBLE STATION		SEE PLUMBING DRAWINGS
	X	29	1	EACH	PRE-RINSE	10.75	NA
	X	30	1	EACH	FLOOR TROUGH	-	C & D/K1.02
	X	31	3	EACH	A:B:C EXTINGUISHER (SEE SHT. A2.20 FOR ADDITIONAL INFO & F.E.)	-	SEE DETAILS 16 & 17/A8.03
X		32	1	EACH	SLICER STAND	95	NA
X		33	1	LOT	POT AND PAN SHELVING	-	NA
	X	34	1	EACH	WALK-IN COOLER - PREFAB SYSTEM BY MFR	-	B/K1.02
	X	35	1	EACH	WALK-IN FREEZER - PREFAB SYSTEM BY MFR	-	B/K1.02
	X	36	1	LOT	FIRE SUPRESSION SYSTEM, SEE M6.01 TO M6.05		SEE MECHANICAL DRAWINGS
	X	37	2	EACH	K TYPE EXTINGUISHERS (BRACKET MTD. @ +40" TO TOP)	-	SEE ARCHITECTURAL DRAWINGS
	X	38	12	EACH	CORNER GUARDS	-	NA
	X	39	2	EACH	HAND SINK (LAVATORY)	-	SEE PLUMBING DRAWINGS
X		40	2	EACH	HAND SOAP DISPENSER	-	NA
X		41	2	EACH	PAPER TOWEL DISPENSER	-	NA
	X	42	1	EACH	MOP RACK	1	SEE ARCHITECTURAL DRAWINGS
	X	43	1	LOT	INSULATED WALL FLASHING	-	NA
	X	44	1	EACH	SERVICE FAUCET	-	NA
		45			NOT USED	-	
	X	46	1	EACH	SOILED DISH TABLE	-	A-1/K1.07
	X	47	1	EACH	DISPOSER/SCRAPING SYSTEM	146	NA
	X	48	1	EACH	CLEAN DISH TABLE	-	A-1/K1.07
	X	49	1	EACH	ROLL-UP DOOR & HOOD	-	SEE DOOR SCHEDULE & SPECS
	X	50	1	EACH	RACK SHELF	-	NA
	X	51	2	EACH	FILL FAUCET (VERIFY LOCATION TO SUIT EQUIP.)	9.69	NA
X		52	2	EACH	CASH REGISTER ON CANTILEVERED S.S. COUNTER	-	NA
	X	53	1	EACH	REFRIGERATION SYSTEM FOR COOLER/FREEZER INCL. OUTDOOR UNIT ON ROOF	-	SEE MECHANICAL DRAWINGS
X		54			TRAY / UTENSIL AREA		
X		55	1	EACH	REFRIGERATOR (RESIDENTIAL)	-	NA
X		56	2	EACH	COLD PAN (SALAD BAR) SERVING COUNTER/WELL	25	NA

[1] FURNISHED BY OWNER, INSTALLATION & UTILITY CONNECTIONS BY CONTRACTOR

[2] FURNISHED AND INSTALLED BY CONTRACTOR

[3] REFER TO KITCHEN EQUIPMENT PLAN SHEET K1.01 AND EQUIPMENT SCHEDULE SHEET K1.03

GENERAL NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g: HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM # OR OPA#) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

integrated designs by SOMAM, Inc.
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN · CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 • Fresno, California 93710
Phone (559) 436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

Revision: Revision Description: Rev. Date:

Sheet Title: **KITCHEN EQUIPMENT**

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01-31-18
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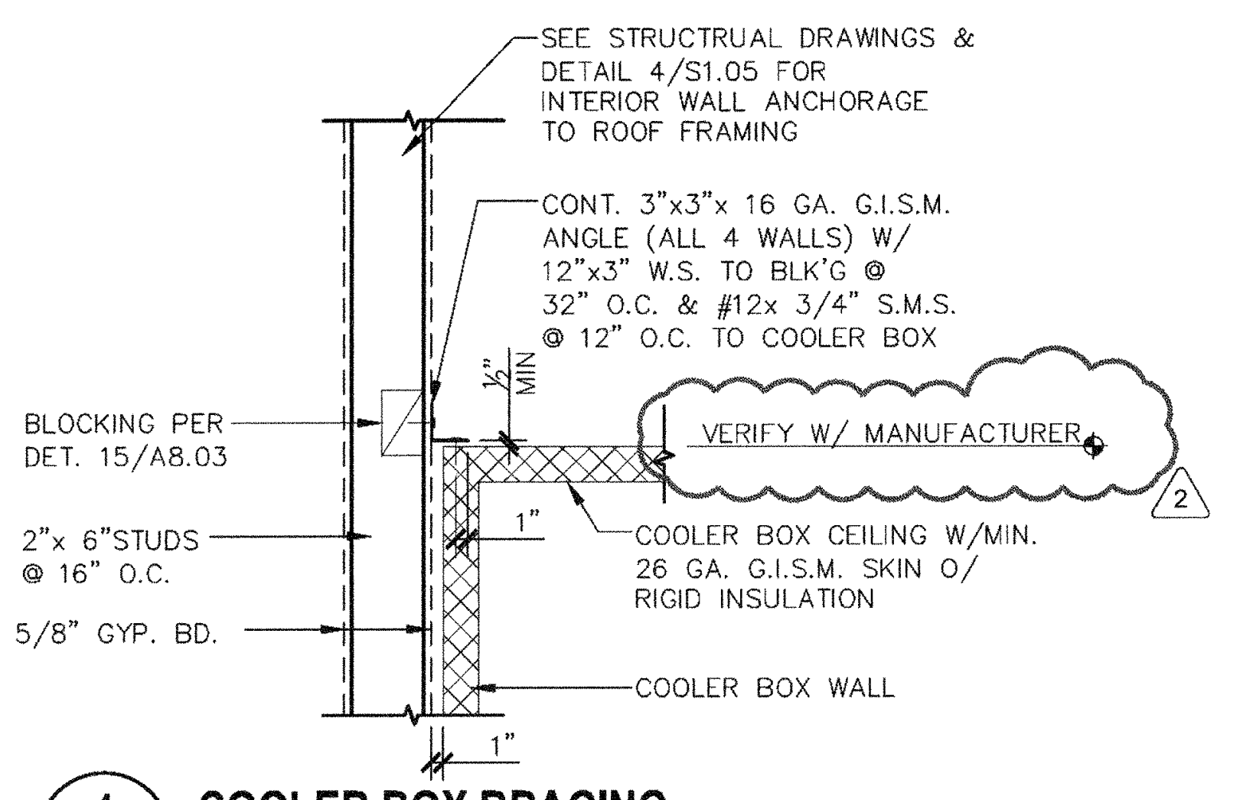
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BLOCKING PER DET. 15/A8.03
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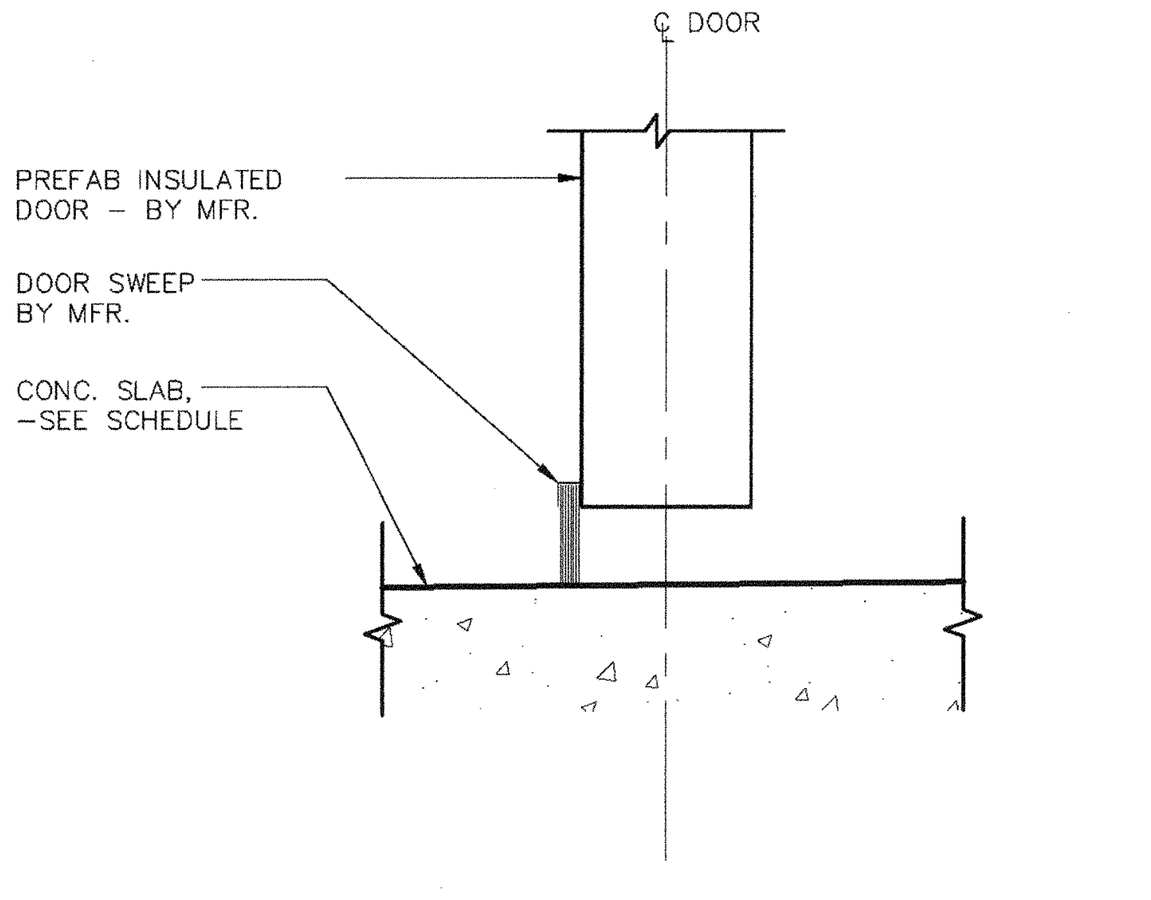
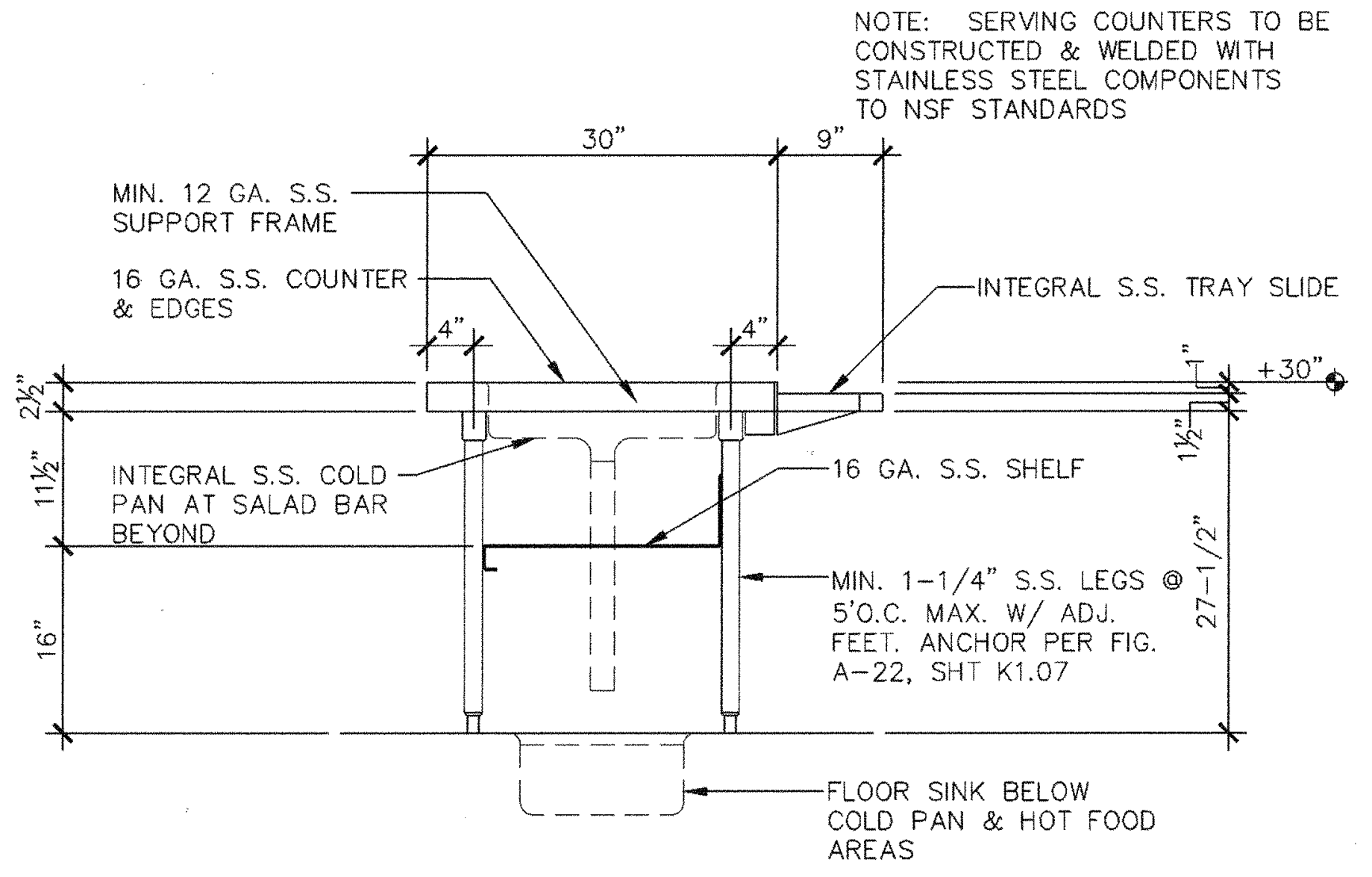
COOLER BOX WALL
1" MIN.
1"
2

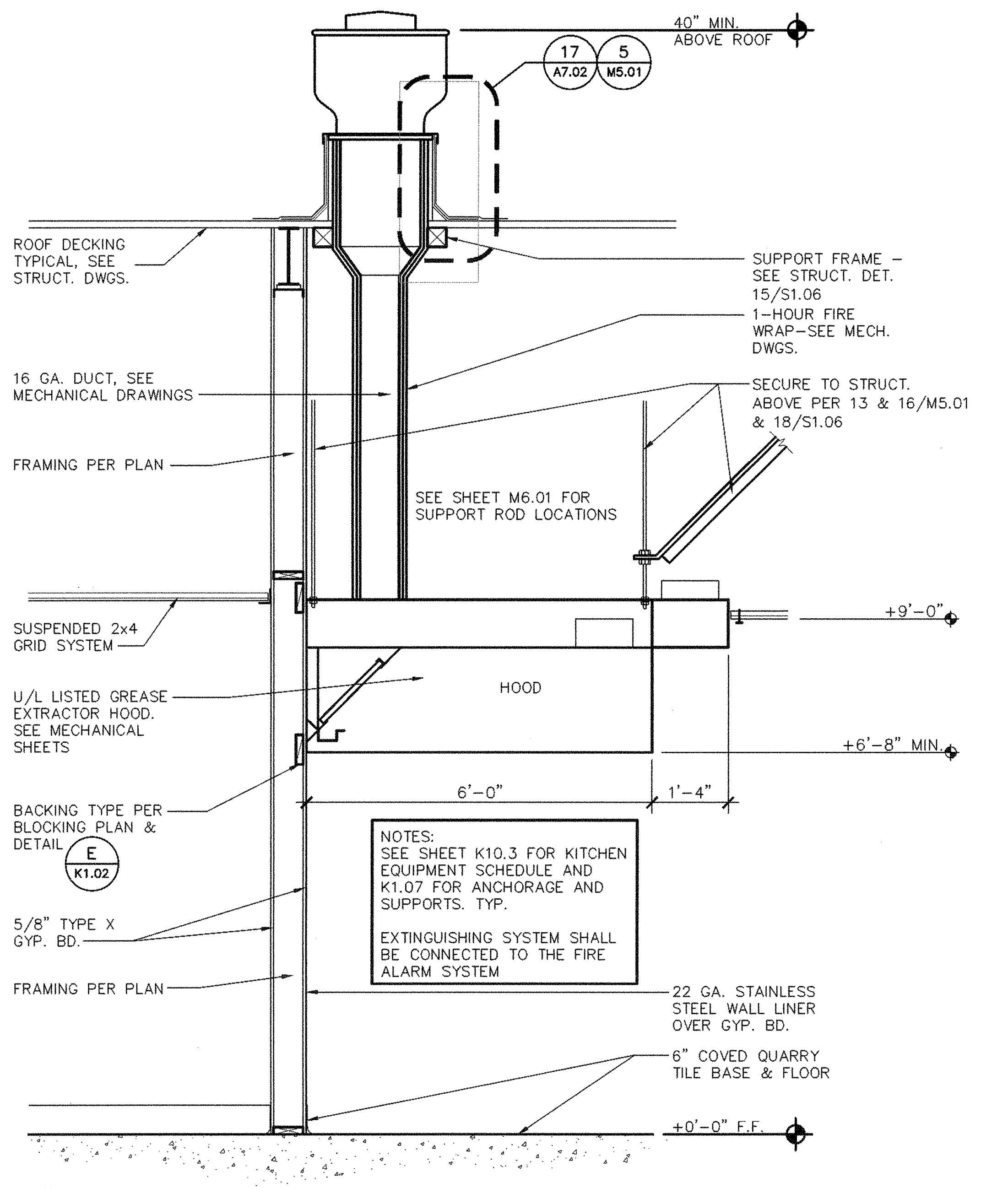
4 K1.01 COOLER BOX BRACING
ADI200_16
SCALE: 1' = 1'-0"


C DOOR
PREFAB INSULATED DOOR - BY MFR.
DOOR SWEEP BY MFR.
CONC. SLAB, -SEE SCHEDULE

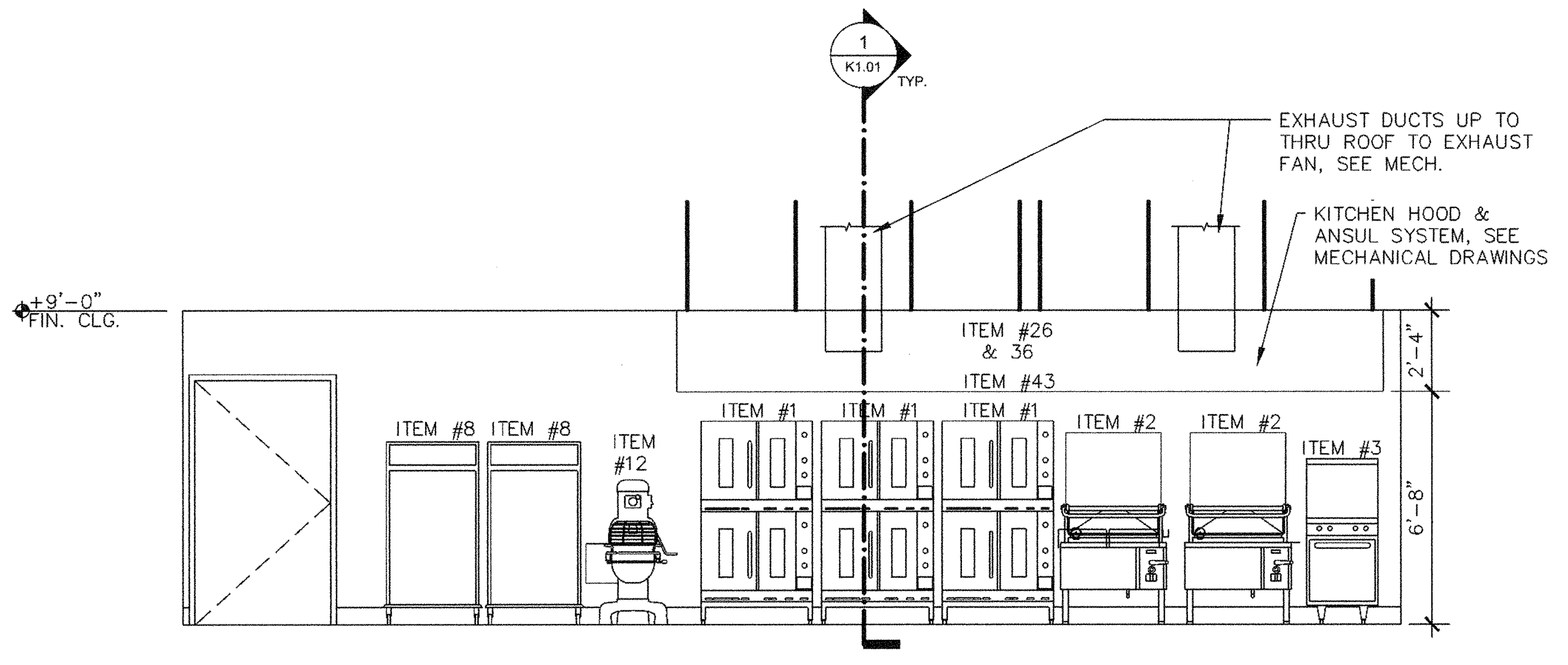
3 K1.01 PREFAB DOORS
ADI200-15
SCALE: 1' = 1'-0"


NOTE: SERVING COUNTERS TO BE CONSTRUCTED & WELDED WITH STAINLESS STEEL COMPONENTS TO NSF STANDARDS
30"
9"
MIN. 12 GA. S.S. SUPPORT FRAME
16 GA. S.S. COUNTER & EDGES
INTEGRAL S.S. TRAY SLIDE
+30"
INTEGRAL S.S. COLD PAN AT SALAD BAR BEYOND
16 GA. S.S. SHELF
MIN. 1-1/4" S.S. LEGS @ 5'O.C. MAX. W/ ADJ. FEET. ANCHOR PER FIG. A-22, SHT K1.07
FLOOR SINK BELOW COLD PAN & HOT FOOD AREAS
27-1/2"
16"
11½"
2½"

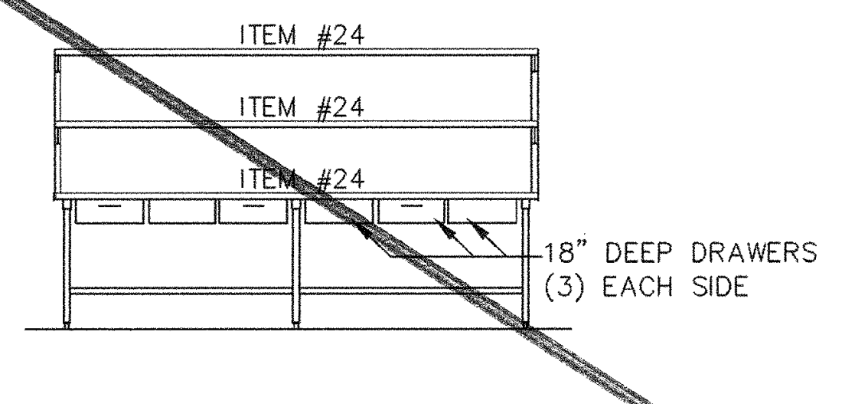
2 K1.01 SECTION THROUGH SERVING COUNTER
2-K1.01
SCALE: 1' = 1'-0"


40" MIN. ABOVE ROOF
17 A7.02
5 M5.01
ROOF DECKING TYPICAL, SEE STRUCT. DWGS.
SUPPORT FRAME - SEE STRUCT. DET. 15/S1.06
1-HOUR FIRE WRAP-SEE MECH. DWGS.
16 GA. DUCT, SEE MECHANICAL DRAWINGS
SECURE TO STRUCT. ABOVE PER 13 & 16/M5.01 & 18/S1.06
FRAMING PER PLAN
SEE SHEET M6.01 FOR SUPPORT ROD LOCATIONS
SUSPENDED 2x4 GRID SYSTEM
+9'-0"
U/L LISTED GREASE EXTRACTOR HOOD. SEE MECHANICAL SHEETS
HOOD
+6'-8" MIN.
6'-0"
1'-4"
BACKING TYPE PER BLOCKING PLAN & DETAIL E K1.02
NOTES: SEE SHEET K10.3 FOR KITCHEN EQUIPMENT SCHEDULE AND K1.07 FOR ANCHORAGE AND SUPPORTS. TYP.
EXTINGUISHING SYSTEM SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM
5/8" TYPE X GYP. BD.
FRAMING PER PLAN
22 GA. STAINLESS STEEL WALL LINER OVER GYP. BD.
6" COVED QUARRY TILE BASE & FLOOR
+0'-0" F.F.

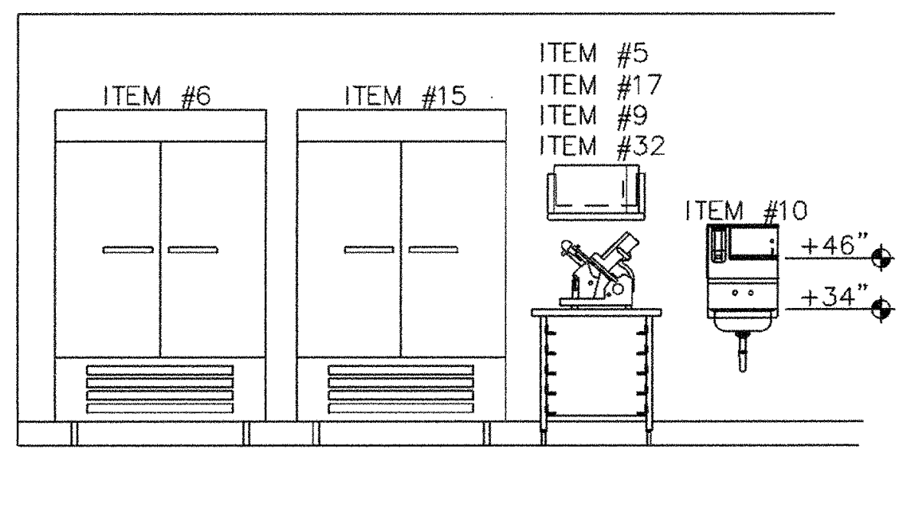
1 K1.01 SECTION THRU KITCHEN HOOD
ADK230-01
SCALE: 1' = 1'-0"


1 K1.01 TYP.
EXHAUST DUCTS UP TO THRU ROOF TO EXHAUST FAN, SEE MECH.
KITCHEN HOOD & ANSUL SYSTEM, SEE MECHANICAL DRAWINGS
+9'-0" FIN. CLG.
ITEM #26 & 36
ITEM #43
ITEM #8
ITEM #8
ITEM #12
ITEM #1
ITEM #1
ITEM #1
ITEM #2
ITEM #2
ITEM #3
2'-4"
6'-8"

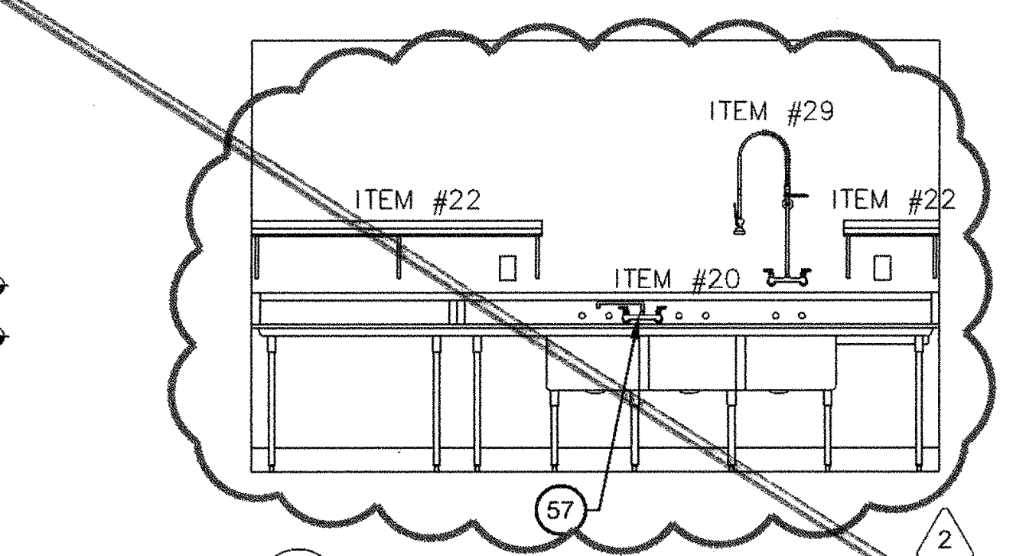
A ELEVATION "A" - ITEM #26, VENTILATOR #43, WALL FLASHING


ITEM #24
ITEM #24
ITEM #24
18" DEEP DRAWERS (3) EACH SIDE

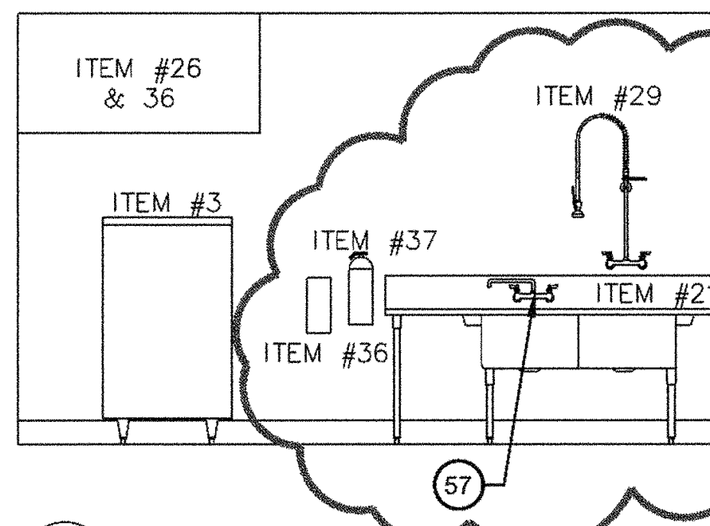
B ELEVATION "B" - ITEM #24, COOKS TABLE


ITEM #6
ITEM #15
ITEM #5
ITEM #17
ITEM #9
ITEM #32
ITEM #10
+46"
+34"

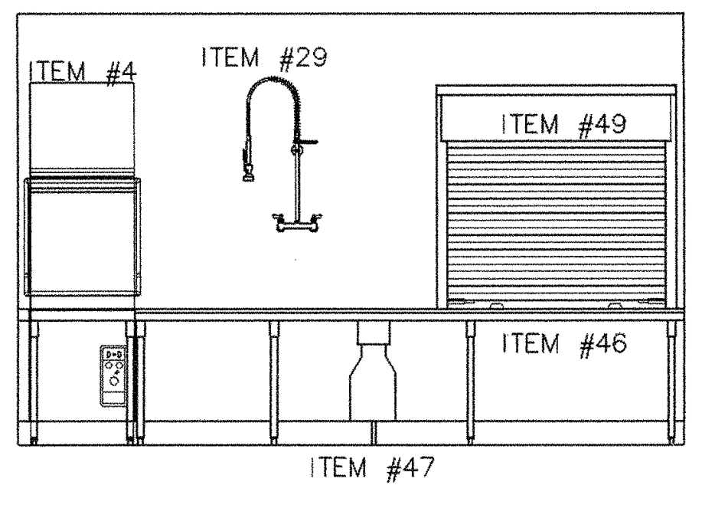
C ELEVATION "B" - ITEM #6 AND #15 REFRIGERATOR AND FREEZER


ITEM #29
ITEM #22
ITEM #22
ITEM #20
57
2

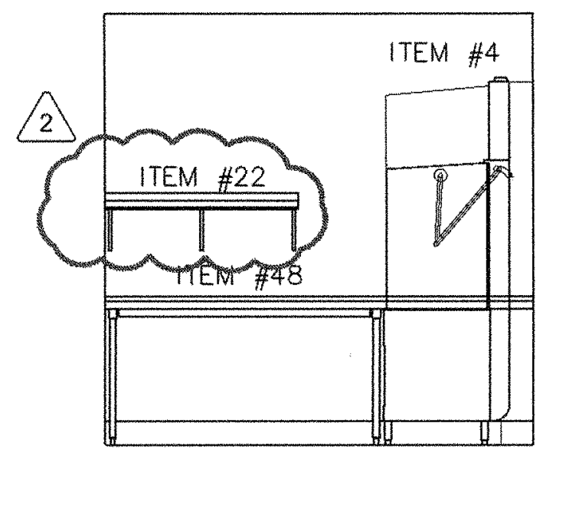
D ELEVATION "D" - ITEM #20, UTENSIL SINK


ITEM #26 & 36
ITEM #3
ITEM #29
ITEM #37
ITEM #21
ITEM #36
57

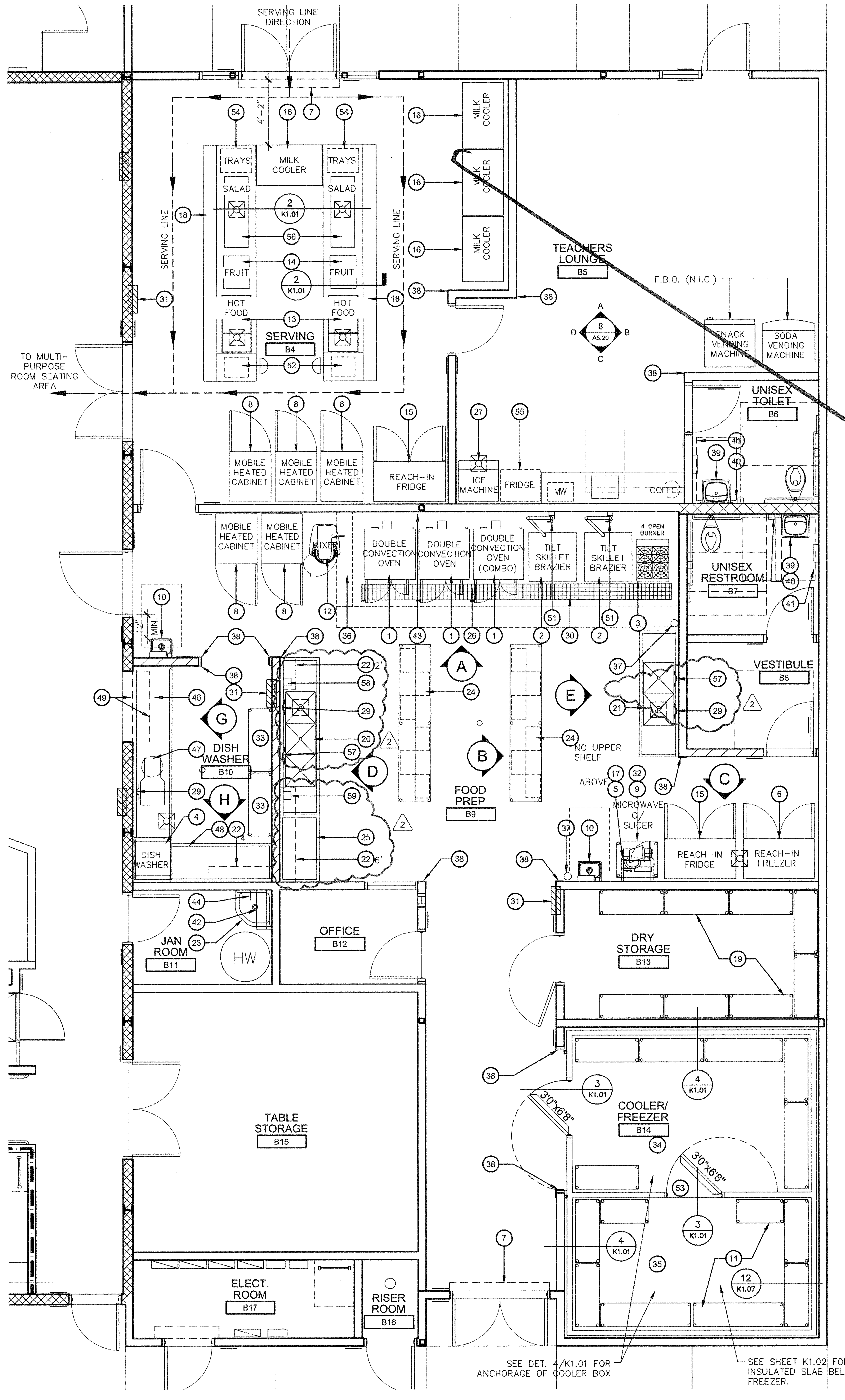
E ELEVATION "E"


ITEM #4
ITEM #29
ITEM #49
ITEM #46
ITEM #47

G ELEVATION "G" - ITEM #46, SOILED DISH TABLE #48, CLEAN DISH TABLE


2
ITEM #4
ITEM #22
ITEM #48

H ELEVATION "H" - ITEM #48, CLEAN DISH TABLE


SERVING LINE DIRECTION
SERVING LINE
SERVING LINE
TRAYS
MILK COOLER
TRAYS
SALAD
SALAD
FRUIT
FRUIT
HOT FOOD
HOT FOOD
SERVING B4
MILK COOLER
MILK COOLER
MILK COOLER
TEACHERS LOUNGE B5
F.B.O. (N.I.C.)
SNACK VENDING MACHINE
SODA VENDING MACHINE
TO MULTI-PURPOSE ROOM SEATING AREA
UNISEX TOILET B6
MOBILE HEATED CABINET
MOBILE HEATED CABINET
MOBILE HEATED CABINET
REACH-IN FRIDGE
ICE MACHINE
FRIDGE
MW
COFFEE
MOBILE HEATED CABINET
MOBILE HEATED CABINET
MIXER
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN (COMBO)
TILT SKILLET BRAZIER
TILT SKILLET BRAZIER
4 OPEN BURNER
UNISEX RESTROOM B7
VESTIBULE B8
DISH WASHER B10
FOOD PREP B9
NO UPPER SHELF ABOVE
MICROWAVE
SLICER
REACH-IN FRIDGE
REACH-IN FREEZER
DISH WASHER
JAN ROOM B11
HW
OFFICE B12
DRY STORAGE B13
COOLER/FREEZER B14
TABLE STORAGE B15
ELECT. ROOM B17
RISER ROOM B16
3'0"x6'8"
3'0"x6'8"
SEE DET. 4/K1.01 FOR ANCHORAGE OF COOLER BOX
SEE SHEET K1.02 FOR INSULATED SLAB BELOW FREEZER.
A
B
C
D
E
G
H
2

KITCHEN EQUIPMENT PLAN
INCREMENT 2
SCALE: 1/4" = 1'-0"

○ EQUIPMENT LEGEND

KITCHEN EQUIPMENT

[1]FBO	[2]F&I CONT.	[3]ITEM NO.	QTY.		DESCRIPTION	WEIGHT	ANCHORAGE
X		1	3	EACH	DOUBLE CONVECTION OVEN (1 COMBO UNIT)	1500	A-11 (OPTIONAL LEG) K1.07
X		2	2	EACH	TILT SKILLET	260	A-18/K1.07
X		3	1	EACH	RANGE, 24", 4 OPEN BURNER	500	A-11 (OPTIONAL LEG) K1.07
	X	4	1	EACH	DISHWASHER, DOOR TYPE	525	A-11 (OPTIONAL LEG) K1.07
X		5	1	EACH	MICROWAVE OVEN	59	NA
X		6	1	EACH	REACH-IN FREEZER	350	A-11/K1.07
	X	7	2	EACH	AIR CURTAIN	84	SEE MECHANICAL DRAWINGS
X		8	5	EACH	MOBILE HEATED CABINET (W/ WHEELS)	390	NA
X		9	1	EACH	SLICER	106	NA
	X	10	2	EACH	HAND SINK W/SOAP & PAPER TOWEL DISPENSER	38	SEE PLUMBING DRAWINGS & 15/A8.01
X		11	1	LOT	WIRE SHELVING	-	12/K1.07
X		12	1	EACH	MIXER, 30 QUART	411	A-19/K1.07
X		13	1	LOT	HOT FOOD SERVING PANS ON COUNTER	140	NA
X		14	1	LOT	COLD SERVING PANS ON COUNTER	88	NA
X		15	2	EACH	REACH-IN FRIDGE	350	A-11/K1.07
X		16	4	EACH	MILK COOLER	307	A-11/K1.07
X		17	1	EACH	MICROWAVE SHELF	27	A-21/K1.07
X		18	2	EACH	CUSTOM FAB S.S. SERVING COUNTER WITH FLAT S.S. TRAY SLIDE, TEMPERED GLASS SNEEZE GUARD, & INTEGRAL MULTI-PAN RECESSED COLD FOOD WELL	375	
X		19	1	LOT	DRY STORAGE SHELVING	-	NA
	X	20	1	EACH	3 COMPARTMENT SINK W/DRAINBOARDS	235	A-2/K1.07
	X	21	1	EACH	2 COMPARTMENT SINK W/DRAINBOARDS	160	A-2/K1.07
	X	22	1		S.S. WALL SHELVES, VARIOUS LENGTHS AND LOCATIONS	-	A21/K1.07
	X	23	1	EACH	MOP SINK	-	SEE PLUMBING DRAWINGS
	X	24	2	EACH	SS WORK TABLE W/ DRAWERS, POT & PAN RACK BELOW, ONE WITH OVERSHELVES		A-1/K1.07
		25			S.S. WORK TABLE WITH INTRIGAL DRAWERS		
	X	26	2	EACH	TYPE 1 EXHAUST HOOD VENTILATOR SYSTEM SEE SHTS M6.01 TO M6.03	966	SEE MECHANICAL DRAWINGS
X		27	1	EACH	ICE MACHINE W/ STORAGE BIN	1402	C/A-22/K1.07
		28	1	SET	WATER REFILL DOUBLE STATION		SEE PLUMBING DRAWINGS
	X	29	3	EACH	PRE-RINSE	10.75	NA
	X	30	2	EACH	FLOOR TROUGH - 10'x2=20'-0"	-	C & D/K1.02
	X	31	3	EACH	A.B.C EXTINGUISHER (SEE SHT. A2.20 FOR ADDITIONAL INFO & F.E.)	-	SEE DETAILS 16 & 17/A8.03
X		32	1	EACH	SLICER STAND	95	NA
X		33	1	LOT	POT AND PAN SHELVING	-	NA
	X	34	1	EACH	WALK-IN COOLER - PREFAB SYSTEM BY MFR	-	B/K1.02
	X	35	1	EACH	WALK-IN FREEZER - PREFAB SYSTEM BY MFR	-	B/K1.02
	X	36	1	LOT	FIRE SUPRESSION SYSTEM, SEE M6.01 TO M6.05		SEE MECHANICAL DRAWINGS
	X	37	2	EACH	K TYPE EXTINGUISHERS (BRACKET MTD. @ +40" TO TOP)	-	SEE ARCHITECTURAL DRAWINGS
	X	38	12	EACH	CORNER GUARDS	-	NA
	X	39	2	EACH	HAND SINK (LAVATORY)	-	SEE PLUMBING DRAWINGS
X		40	2	EACH	HAND SOAP DISPENSER	-	NA
X		41	2	EACH	PAPER TOWEL DISPENSER	-	NA
	X	42	1	EACH	MOP RACK	1	SEE ARCHITECTURAL DRAWINGS
	X	43	1	LOT	INSULATED WALL FLASHING	-	NA
	X	44	1	EACH	SERVICE FAUCET	-	NA
		45			NOT USED	-	
	X	46	1	EACH	SOILED DISH TABLE	-	A-1/K1.07
	X	47	1	EACH	DISPOSER/SCRAPING SYSTEM	146	NA
	X	48	1	EACH	CLEAN DISH TABLE	-	A-1/K1.07
	X	49	1	EACH	ROLL-UP DOOR & HOOD	-	SEE DOOR SCHEDULE & SPECS
	X	50	1	EACH	RACK SHELF	-	NA
	X	51	2	EACH	FILL FAUCET (VERIFY LOCATION TO SUIT EQUIP.)	9.69	NA
X		52	2	EACH	CASH REGISTER ON CANTILEVERED S.S. COUNTER	-	NA
	X	53	1	EACH	REFRIGERATION SYSTEM FOR COOLER/FREEZER INCL. OUTDOOR UNIT ON ROOF	-	SEE MECHANICAL DRAWINGS
X		54			TRAY / UTENSIL AREA		
X		55	1	EACH	REFRIGERATOR (RESIDENTIAL)	-	NA
X		56	2	EACH	COLD PAN (SALAD BAR) SERVING COUNTER/WELL	25	NA
	X	57	2	EACH	FAUCET		
	X	58	1	EACH	SOAP DISPENSER		
	X	59	1	EACH	SANITARY FLUID DISPENSER		

2

[1] FURNISHED BY OWNER, INSTALLATION & UTILITY CONNECTIONS BY CONTRACTOR
[2] FURNISHED AND INSTALLED BY CONTRACTOR
[3] REFER TO KITCHEN EQUIPMENT PLAN SHEET K1.01 AND EQUIPMENT SCHEDULE SHEET K1.03

GENERAL NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM # OR OPA#) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

integrated designs by SOMAM, Inc.
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN · PROJECT MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559) 436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

Revision:	Revision Description:	Rev. Date:
2	ADDENDUM #2	08/17/18

Sheet Title:
KITCHEN EQUIPMENT

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01-31-18
Date: 08/31/18
Designer: --
DR: --
PC: PC INITIALS

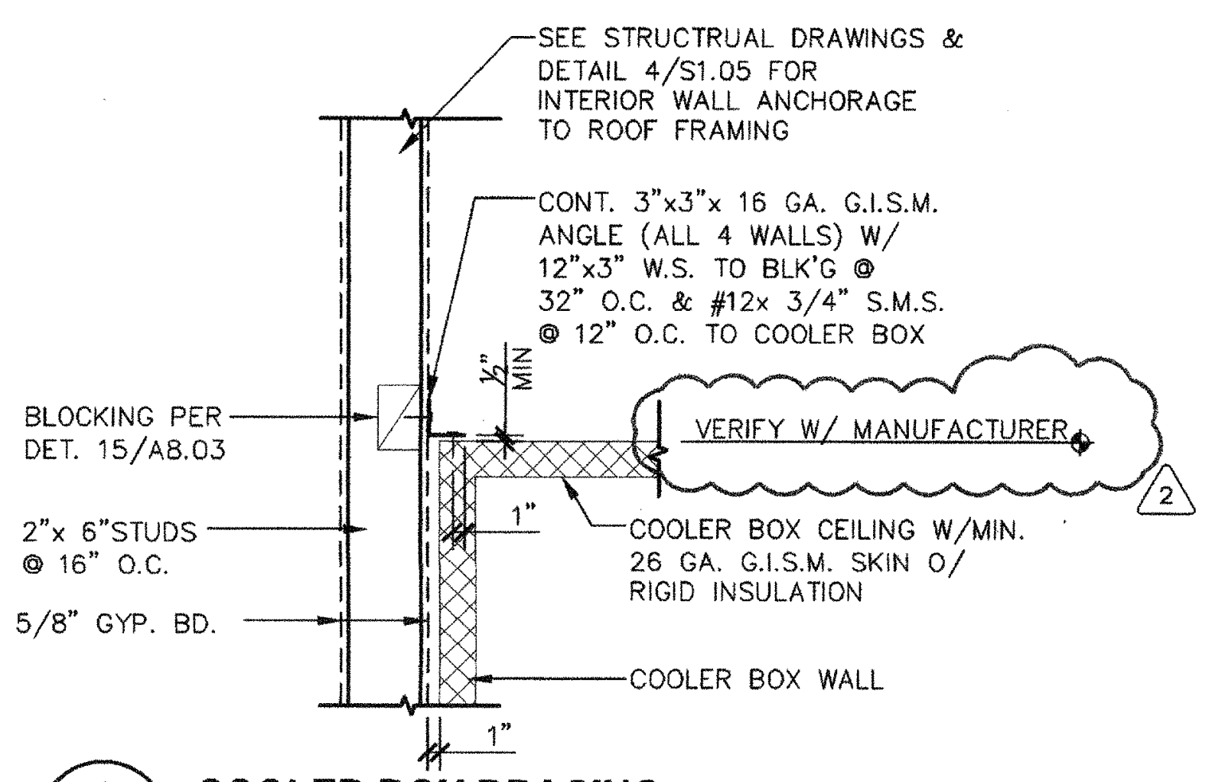
Agency Approval Stamp:
FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC____FLS____SS____
DATE______________
TRACKING #: 63321-300

Stamp(s):
CURTIS E. FLYNN
No. C 28966
REN. 5-31-19

Job No.: 5262

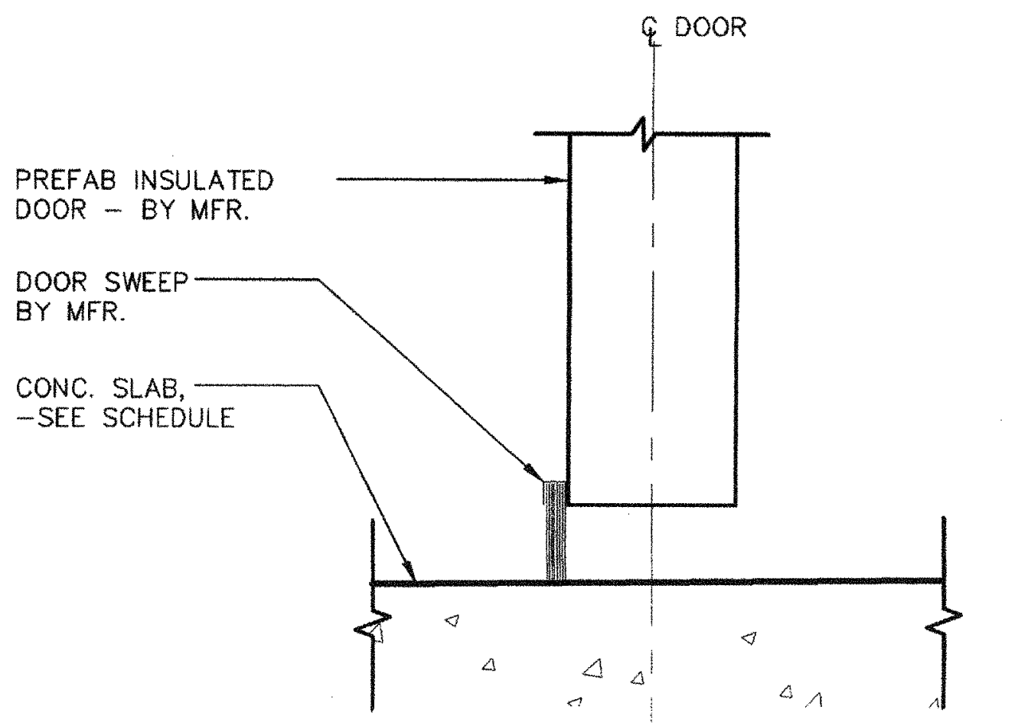
Sheet No.: K1.01

Release: - ADDENDUM #2


SEE STRUCTURAL DRAWINGS & DETAIL 4/S1.05 FOR INTERIOR WALL ANCHORAGE TO ROOF FRAMING
CONT. 3"x3"x 16 GA. G.I.S.M. ANGLE (ALL 4 WALLS) W/ 12"x3" W.S. TO BLK'G @ 32" O.C. & #12x 3/4" S.M.S. @ 12" O.C. TO COOLER BOX
BLOCKING PER DET. 15/A8.03
VERIFY W/ MANUFACTURER
2"x 6"STUDS @ 16" O.C.
5/8" GYP. BD.
COOLER BOX CEILING W/MIN. 26 GA. G.I.S.M. SKIN O/ RIGID INSULATION
COOLER BOX WALL
2" MIN.
1"

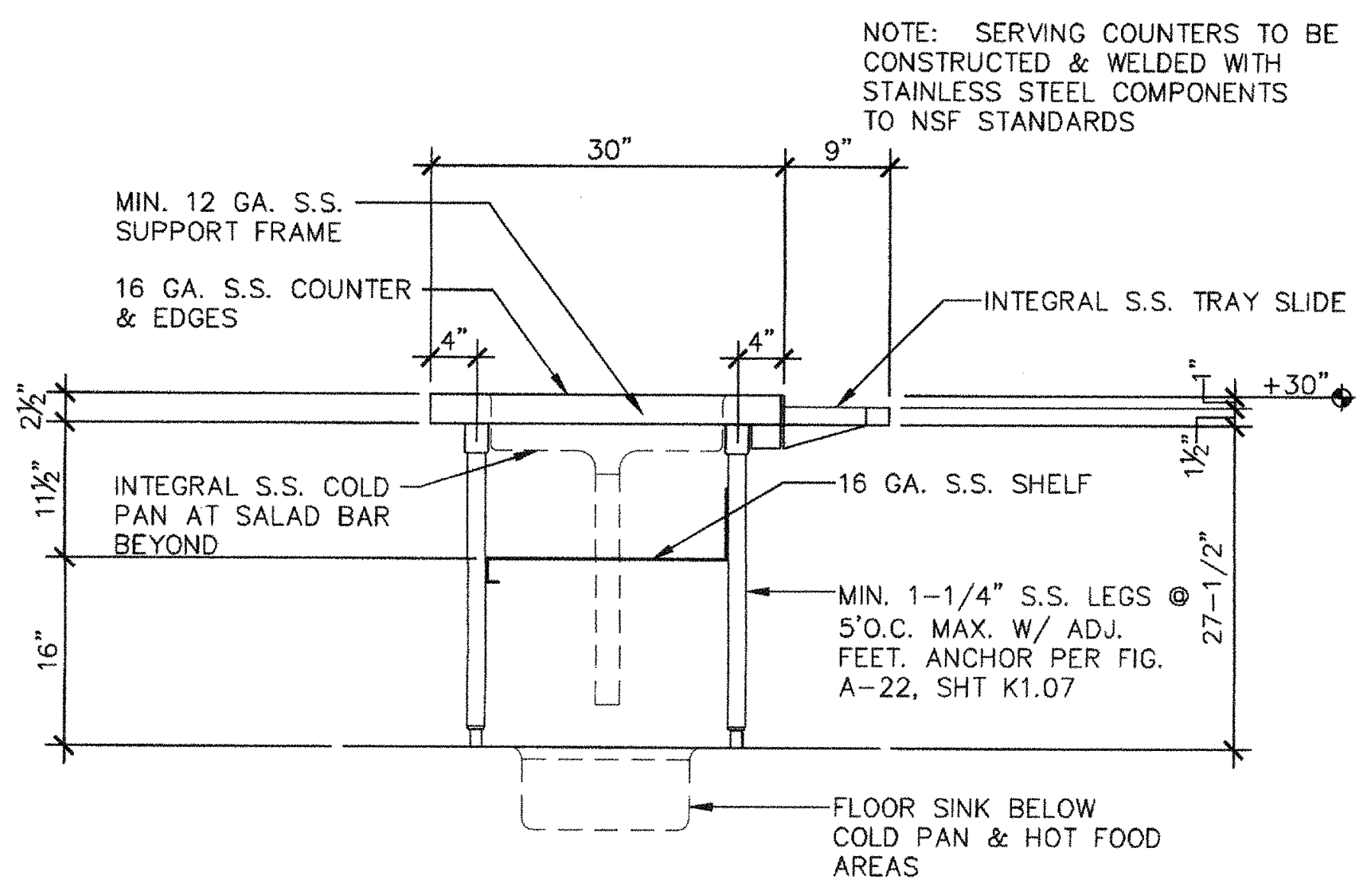
4 K1.01 COOLER BOX BRACING

ADI200_16 SCALE: 1' = 1'-0"


DOOR
PREFAB INSULATED DOOR - BY MFR.
DOOR SWEEP BY MFR.
CONC. SLAB, -SEE SCHEDULE

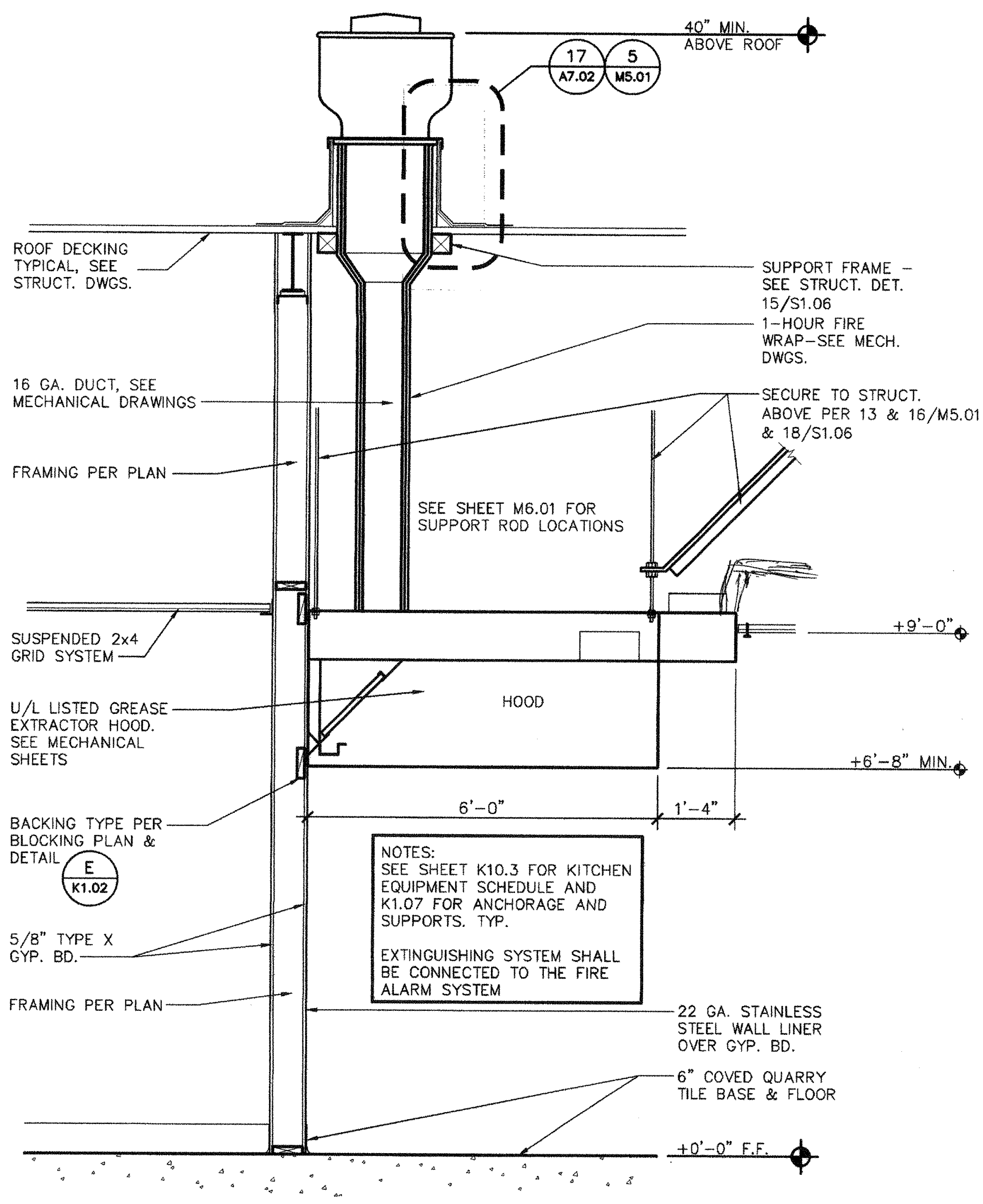
3 K1.01 PREFAB DOORS

ADI200-15 SCALE: 1' = 1'-0"


NOTE: SERVING COUNTERS TO BE CONSTRUCTED & WELDED WITH STAINLESS STEEL COMPONENTS TO NSF STANDARDS
30"
9"
MIN. 12 GA. S.S. SUPPORT FRAME
16 GA. S.S. COUNTER & EDGES
4"
INTEGRAL S.S. TRAY SLIDE
+30"
INTEGRAL S.S. COLD PAN AT SALAD BAR BEYOND
16 GA. S.S. SHELF
MIN. 1-1/4" S.S. LEGS @ 5'O.C. MAX. W/ ADJ. FEET. ANCHOR PER FIG. A-22, SHT K1.07
FLOOR SINK BELOW COLD PAN & HOT FOOD AREAS
27-1/2"
11-1/2"
16"

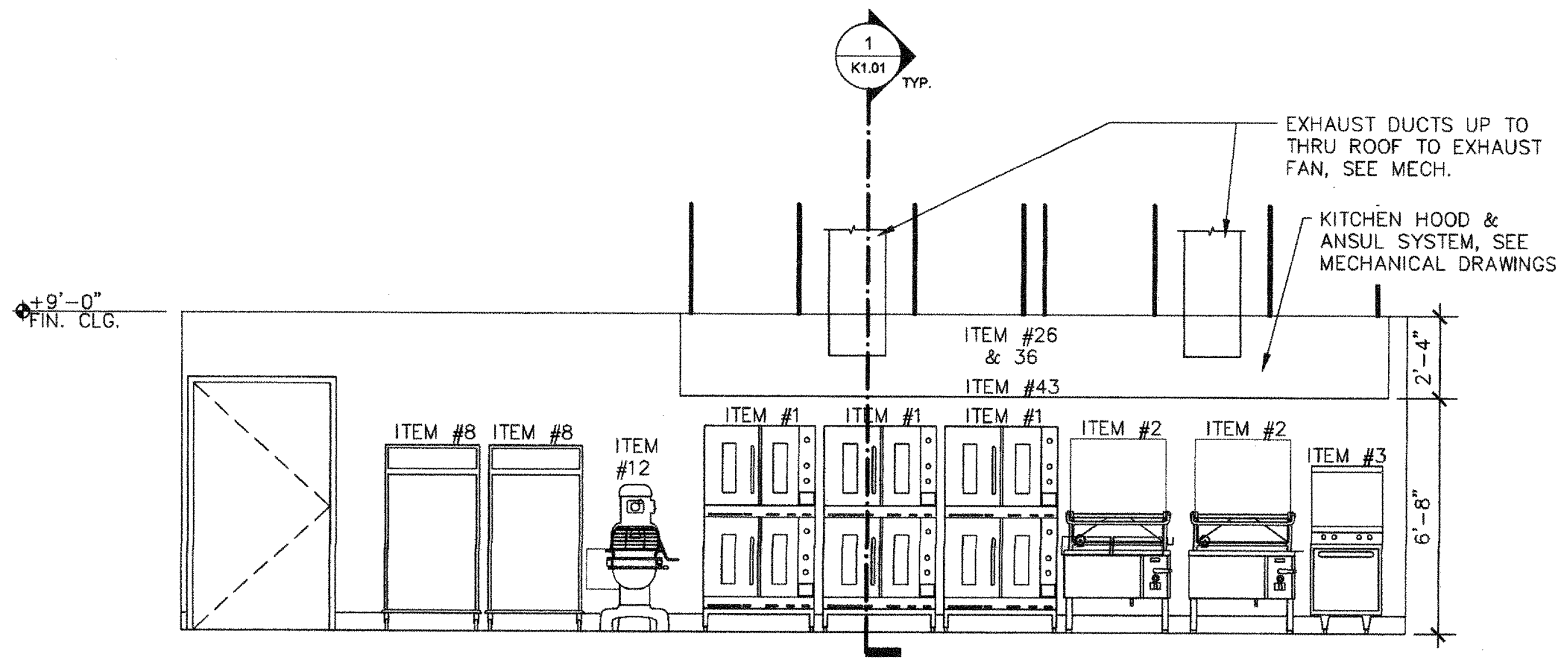
2 K1.01 SECTION THROUGH SERVING COUNTER

2-K1.01 SCALE: 1' = 1'-0"

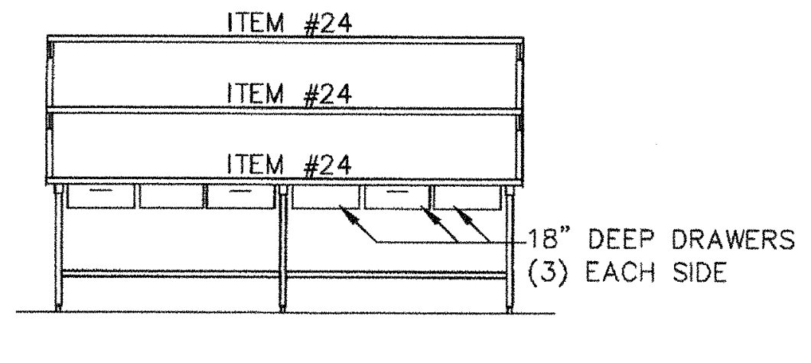

40" MIN. ABOVE ROOF
17 A7.02
5 M5.01
ROOF DECKING TYPICAL, SEE STRUCT. DWGS.
SUPPORT FRAME - SEE STRUCT. DET. 15/S1.06
1-HOUR FIRE WRAP-SEE MECH. DWGS.
16 GA. DUCT, SEE MECHANICAL DRAWINGS
SECURE TO STRUCT. ABOVE PER 13 & 16/M5.01 & 18/S1.06
FRAMING PER PLAN
SEE SHEET M6.01 FOR SUPPORT ROD LOCATIONS
SUSPENDED 2x4 GRID SYSTEM
+9'-0"
U/L LISTED GREASE EXTRACTOR HOOD. SEE MECHANICAL SHEETS
HOOD
+6'-8" MIN.
BACKING TYPE PER BLOCKING PLAN & DETAIL E K1.02
6'-0"
1'-4"
NOTES: SEE SHEET K10.3 FOR KITCHEN EQUIPMENT SCHEDULE AND K1.07 FOR ANCHORAGE AND SUPPORTS, TYP.
EXTINGUISHING SYSTEM SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM
5/8" TYPE X GYP. BD.
FRAMING PER PLAN
22 GA. STAINLESS STEEL WALL LINER OVER GYP. BD.
6" COVED QUARRY TILE BASE & FLOOR
+0'-0" F.F.

1 K1.01 SECTION THRU KITCHEN HOOD

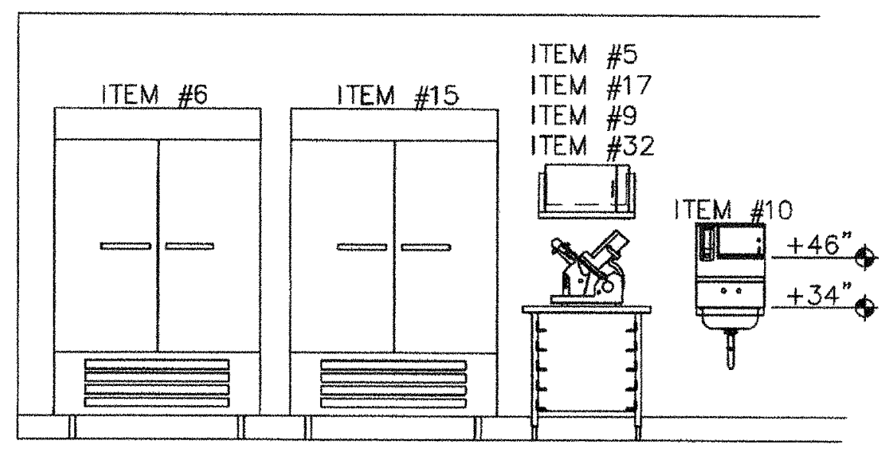
ADK230-01 SCALE: 1' = 1'-0"


1 K1.01 TYP.
EXHAUST DUCTS UP TO THRU ROOF TO EXHAUST FAN, SEE MECH.
KITCHEN HOOD & ANSUL SYSTEM, SEE MECHANICAL DRAWINGS
+9'-0" FIN. CLG.
ITEM #26 & 36
ITEM #43
ITEM #8
ITEM #8
ITEM #12
ITEM #1
ITEM #1
ITEM #1
ITEM #1
ITEM #2
ITEM #2
ITEM #3
2'-4"
6'-8"

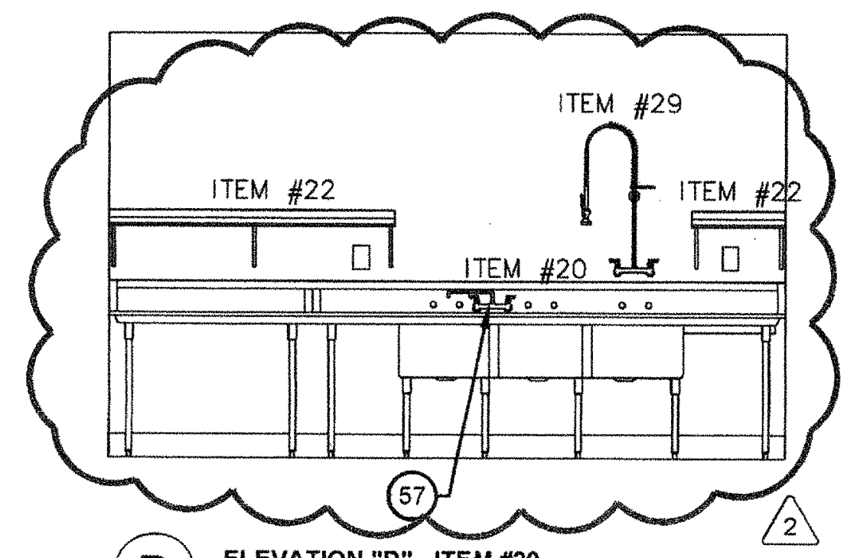
A ELEVATION "A" - ITEM #26, VENTILATOR #43, WALL FLASHING


ITEM #24
ITEM #24
ITEM #24
18" DEEP DRAWERS (3) EACH SIDE

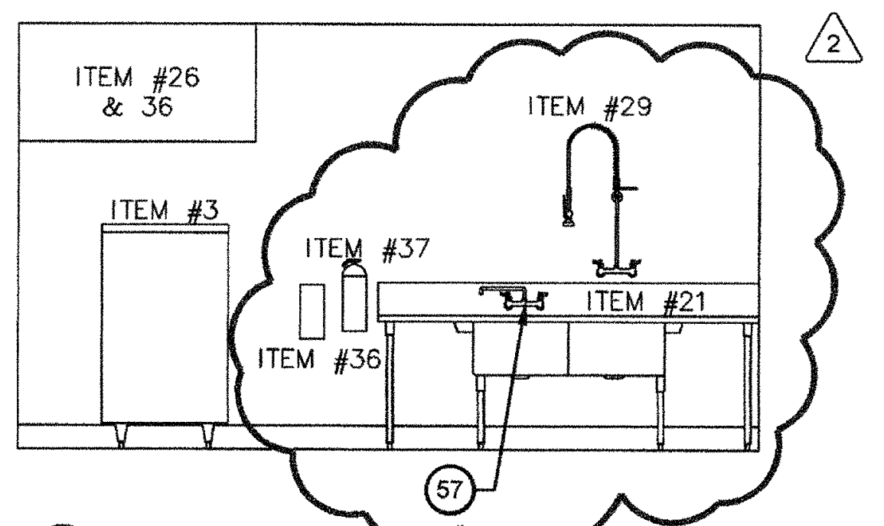
B ELEVATION "B" - ITEM #24, COOKS TABLE


ITEM #6
ITEM #15
ITEM #5
ITEM #17
ITEM #9
ITEM #32
ITEM #10
+46"
+34"

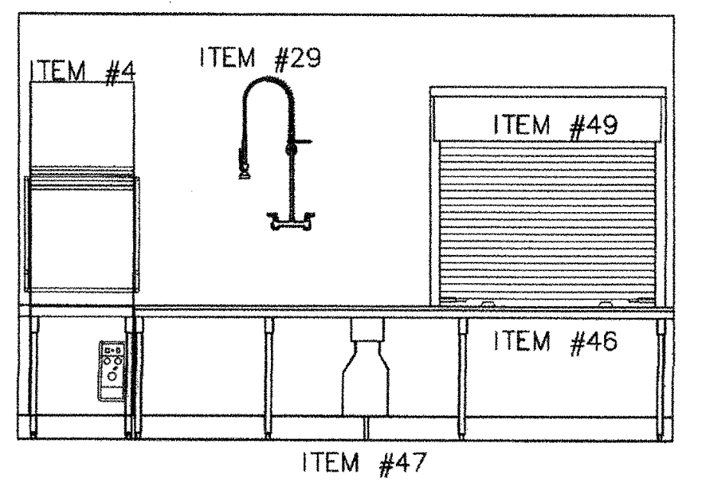
C ELEVATION "B" - ITEM #6 AND #15 REFRIGERATOR AND FREEZER


ITEM #29
ITEM #22
ITEM #22
ITEM #20
57
2

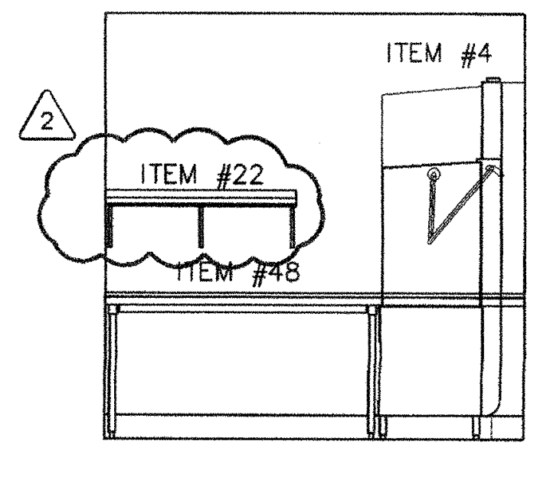
D ELEVATION "D" - ITEM #20, UTENSIL SINK


2
ITEM #26 & 36
ITEM #29
ITEM #3
ITEM #37
ITEM #36
ITEM #21
57

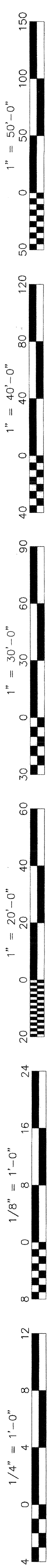
E ELEVATION "E"

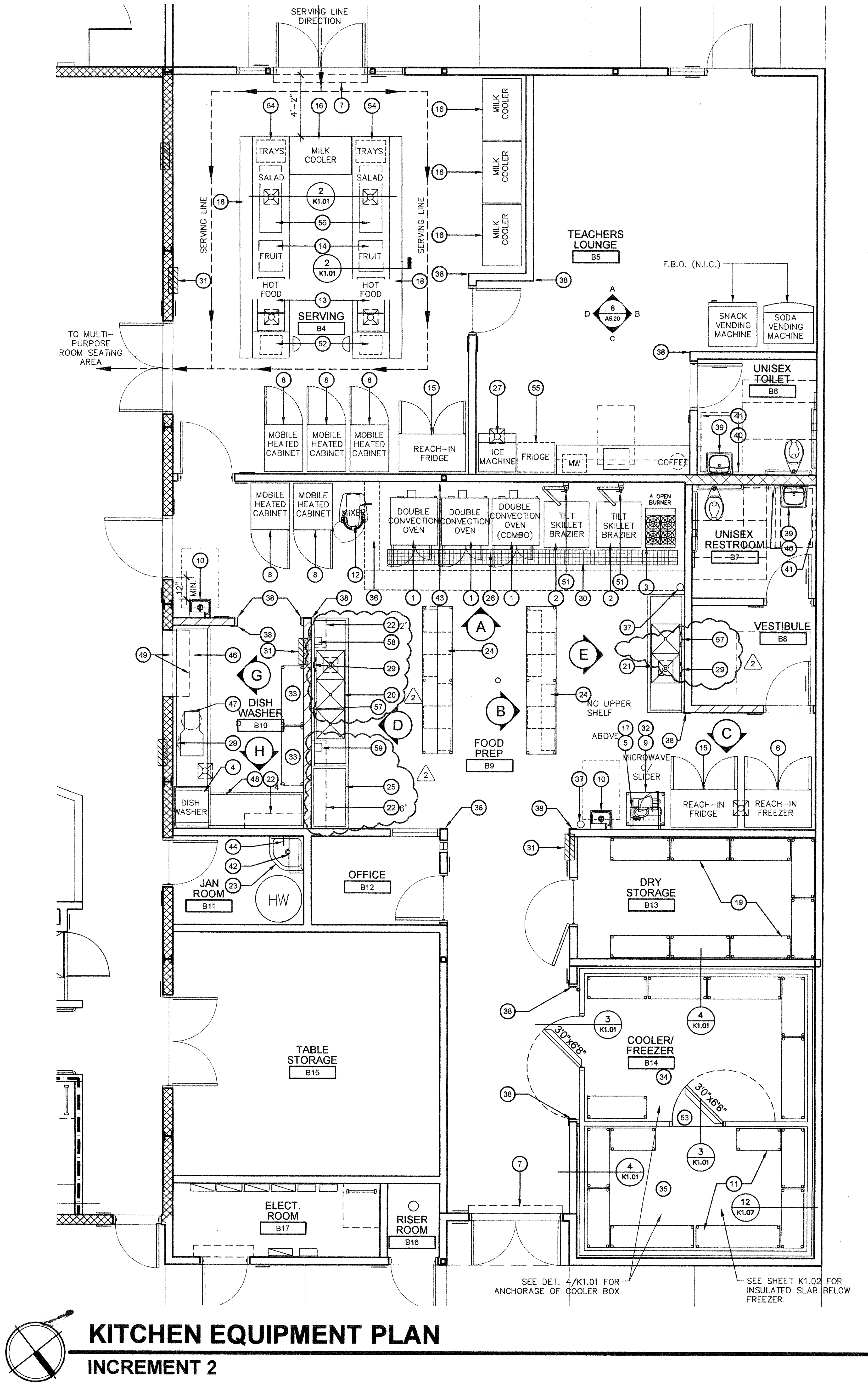

ITEM #4
ITEM #29
ITEM #49
ITEM #46
ITEM #47

G ELEVATION "G" - ITEM #46, SOILED DISH TABLE #48, CLEAN DISH TABLE


2
ITEM #4
ITEM #22
ITEM #48

H ELEVATION "H" - ITEM #48, CLEAN DISH TABLE


150
100
1" = 50'-0"
50
0
50
120
80
1" = 40'-0"
40
0
40
90
60
1" = 30'-0"
30
0
30
60
40
1" = 20'-0"
20
0
20
24
16
1/8" = 1'-0"
8
0
8
12
8
1/4" = 1'-0"
4
0
4


SERVING LINE DIRECTION
SERVING LINE
SERVING LINE
TRAYS
MILK COOLER
TRAYS
SALAD
SALAD
FRUIT
FRUIT
HOT FOOD
HOT FOOD
SERVING B4
2 K1.01
MILK COOLER
MILK COOLER
MILK COOLER
TEACHERS LOUNGE B5
F.B.O. (N.I.C.)
SNACK VENDING MACHINE
SODA VENDING MACHINE
8 A8.20
TO MULTI-PURPOSE ROOM SEATING AREA
MOBILE HEATED CABINET
MOBILE HEATED CABINET
MOBILE HEATED CABINET
REACH-IN FRIDGE
ICE MACHINE
FRIDGE
MW
COFFEE
UNISEX TOILET B6
MOBILE HEATED CABINET
MOBILE HEATED CABINET
MIXER
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN (COMBO)
TILT SKILLET BRAZIER
TILT SKILLET BRAZIER
4 OPEN BURNER
UNISEX RESTROOM B7
VESTIBULE B8
DISH WASHER B10
NO UPPER SHELF
ABOVE
MICROWAVE ON SLICER
FOOD PREP B9
REACH-IN FRIDGE
REACH-IN FREEZER
DISH WASHER
JAN ROOM B11
HW
OFFICE B12
DRY STORAGE B13
TABLE STORAGE B15
COOLER/ FREEZER B14
3'0"x6'8"
3'0"x6'8"
3 K1.01
4 K1.01
ELECT. ROOM B17
RISER ROOM B16
A
B
C
D
E
G
H
2
SEE DET. 4/K1.01 FOR ANCHORAGE OF COOLER BOX
SEE SHEET K1.02 FOR INSULATED SLAB BELOW FREEZER.
12 K1.07

KITCHEN EQUIPMENT PLAN

INCREMENT 2

SCALE: 1/4" = 1'-0"

○ EQUIPMENT LEGEND

KITCHEN EQUIPMENT

[1]FBO	[2]F&I CONT.	[3]ITEM NO.	QTY.		DESCRIPTION	WEIGHT	ANCHORAGE
X		1	3	EACH	DOUBLE CONVECTION OVEN (1 COMBO UNIT)	1500	A-11 (OPTIONAL LEG) K1.07
X		2	2	EACH	TILT SKILLET	260	A-18/K1.07
X		3	1	EACH	RANGE, 24", 4 OPEN BURNER	500	A-11 (OPTIONAL LEG) K1.07
	X	4	1	EACH	DISHWASHER, DOOR TYPE	525	A-11 (OPTIONAL LEG) K1.07
X		5	1	EACH	MICROWAVE OVEN	59	NA
X		6	1	EACH	REACH-IN FREEZER	350	A-11/K1.07
	X	7	2	EACH	AIR CURTAIN	84	SEE MECHANICAL DRAWINGS
X		8	5	EACH	MOBILE HEATED CABINET (W/ WHEELS)	390	NA
X		9	1	EACH	SLICER	106	NA
	X	10	2	EACH	HAND SINK W/SOAP & PAPER TOWEL DISPENSER	38	SEE PLUMBING DRAWINGS & 15/A8.01
X		11	1	LOT	WIRE SHELVING	-	12/K1.07
X		12	1	EACH	MIXER, 30 QUART	411	A-19/K1.07
X		13	1	LOT	HOT FOOD SERVING PANS ON COUNTER	140	NA
X		14	1	LOT	COLD SERVING PANS ON COUNTER	88	NA
X		15	2	EACH	REACH-IN FRIDGE	350	A-11/K1.07
X		16	4	EACH	MILK COOLER	307	A-11/K1.07
X		17	1	EACH	MICROWAVE SHELF	27	A-21/K1.07
X		18	2	EACH	CUSTOM FAB S.S. SERVING COUNTER WITH FLAT S.S. TRAY SLIDE, TEMPERED GLASS SNEEZE GUARD, & INTEGRAL MULTI-PAN RECESSED COLD FOOD WELL	375	
X		19	1	LOT	DRY STORAGE SHELVING	-	NA
	X	20	1	EACH	3 COMPARTMENT SINK W/DRAINBOARDS	235	A-2/K1.07
	X	21	1	EACH	2 COMPARTMENT SINK W/DRAINBOARDS	160	A-2/K1.07
	X	22	1		S.S. WALL SHELVES, VARIOUS LENGTHS AND LOCATIONS	-	A21/K1.07
	X	23	1	EACH	MOP SINK	-	SEE PLUMBING DRAWINGS
	X	24	2	EACH	SS WORK TABLE W/ DRAWERS, POT & PAN RACK BELOW, ONE WITH OVERSHELVES		A-1/K1.07
		25			S.S. WORK TABLE WITH INTRIGAL DRAWERS		
	X	26	2	EACH	TYPE 1 EXHAUST HOOD VENTILATOR SYSTEM SEE SHTS M6.01 TO M6.03	966	SEE MECHANICAL DRAWINGS
X		27	1	EACH	ICE MACHINE W/ STORAGE BIN	1402	C/A-22/K1.07
		28	1	SET	WATER REFILL DOUBLE STATION		SEE PLUMBING DRAWINGS
	X	29	3	EACH	PRE-RINSE	10.75	NA
	X	30	2	EACH	FLOOR TROUGH - 10'x2=20'-0"	-	C & D/K1.02
	X	31	3	EACH	A.B.C EXTINGUISHER (SEE SHT. A2.20 FOR ADDITIONAL INFO & F.E.)	-	SEE DETAILS 16 & 17/A8.03
X		32	1	EACH	SLICER STAND	95	NA
X		33	1	LOT	POT AND PAN SHELVING	-	NA
	X	34	1	EACH	WALK-IN COOLER - PREFAB SYSTEM BY MFR	-	B/K1.02
	X	35	1	EACH	WALK-IN FREEZER - PREFAB SYSTEM BY MFR	-	B/K1.02
	X	36	1	LOT	FIRE SUPRESSION SYSTEM, SEE M6.01 TO M6.05		SEE MECHANICAL DRAWINGS
	X	37	2	EACH	K TYPE EXTINGUISHERS (BRACKET MTD. @ +40" TO TOP)	-	SEE ARCHITECTURAL DRAWINGS
	X	38	12	EACH	CORNER GUARDS	-	NA
	X	39	2	EACH	HAND SINK (LAVATORY)	-	SEE PLUMBING DRAWINGS
X		40	2	EACH	HAND SOAP DISPENSER	-	NA
X		41	2	EACH	PAPER TOWEL DISPENSER	-	NA
	X	42	1	EACH	MOP RACK	1	SEE ARCHITECTURAL DRAWINGS
	X	43	1	LOT	INSULATED WALL FLASHING	-	NA
	X	44	1	EACH	SERVICE FAUCET	-	NA
		45			NOT USED	-	
	X	46	1	EACH	SOILED DISH TABLE	-	A-1/K1.07
	X	47	1	EACH	DISPOSER/SCRAPING SYSTEM	146	NA
	X	48	1	EACH	CLEAN DISH TABLE	-	A-1/K1.07
	X	49	1	EACH	ROLL-UP DOOR & HOOD	-	SEE DOOR SCHEDULE & SPECS
	X	50	1	EACH	RACK SHELF	-	NA
	X	51	2	EACH	FILL FAUCET (VERIFY LOCATION TO SUIT EQUIP.)	9.69	NA
X		52	2	EACH	CASH REGISTER ON CANTILEVERED S.S. COUNTER	-	NA
	X	53	1	EACH	REFRIGERATION SYSTEM FOR COOLER/FREEZER INCL. OUTDOOR UNIT ON ROOF	-	SEE MECHANICAL DRAWINGS
X		54			TRAY / UTENSIL AREA		
X		55	1	EACH	REFRIGERATOR (RESIDENTIAL)	-	NA
X		56	2	EACH	COLD PAN (SALAD BAR) SERVING COUNTER/WELL	25	NA
	X	57	2	EACH	FAUCET		
	X	58	1	EACH	SOAP DISPENSER		
	X	59	1	EACH	SANITARY FLUID DISPENSER		

2

[1] FURNISHED BY OWNER, INSTALLATION & UTILITY CONNECTIONS BY CONTRACTOR

[2] FURNISHED AND INSTALLED BY CONTRACTOR

[3] REFER TO KITCHEN EQUIPMENT PLAN SHEET K1.01 AND EQUIPMENT SCHEDULE SHEET K1.03

GENERAL NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM # OR OPA#) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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www.integrateddesigns.com

Rev. Date:	Revision:	Revision Description:	Rev. Date:
08/17/18	2	ADDENDUM #2	

Sheet Title:
KITCHEN EQUIPMENT

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01-31-18
Date: 08/31/18
Designer: --
DR: --
PC: PC INITIALS

Agency Approval Stamp:

FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC SC FLS SH SS TN
DATE 9/8/19
TRACKING #: 63321-300
ADDENDUM #2

Stamp(s):

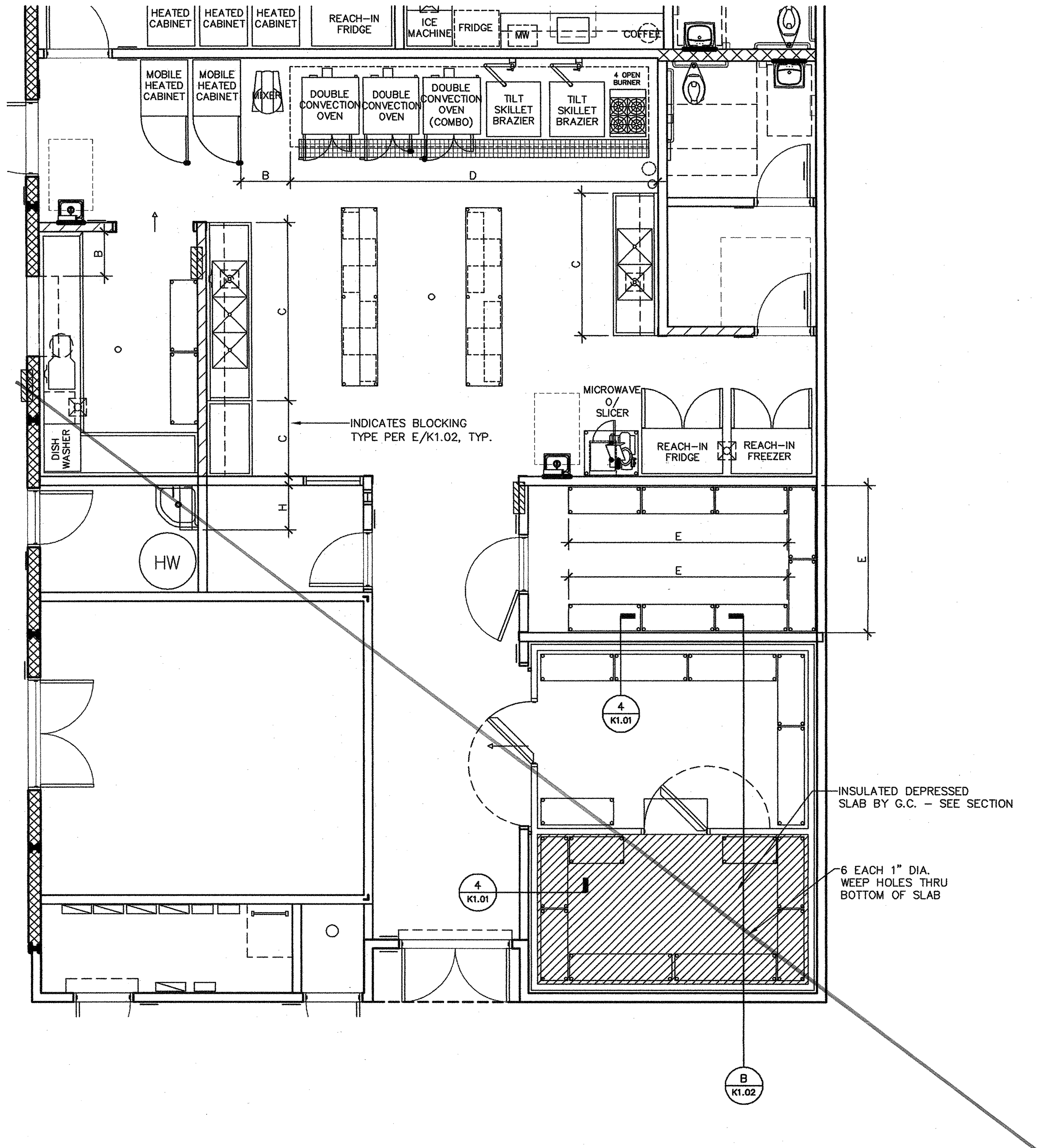
LICENSED ARCHITECT
CURTIS E. FLYNN
No. C 28966
REN. 5-31-19
STATE OF CALIFORNIA

Job No.: 5262

Sheet No.: K1.01

Release: - ADDENDUM #2

1" = 50'-0"
150
100
50
0
50
1" = 40'-0"
120
80
40
0
40
1" = 30'-0"
90
60
30
0
30
1" = 20'-0"
60
40
20
0
20
1/8" = 1'-0"
24
16
8
0
8
1/4" = 1'-0"
12
8
4
0
4


HEATED CABINET
HEATED CABINET
HEATED CABINET
REACH-IN FRIDGE
ICE MACHINE
FRIDGE
MW
COFFEE
MOBILE HEATED CABINET
MOBILE HEATED CABINET
MIXER
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN (COMBO)
TILT SKILLET BRAZIER
TILT SKILLET BRAZIER
4 OPEN BURNER
B
D
B
C
C
C
H
DISH WASHER
HW
INDICATES BLOCKING TYPE PER E/K1.02, TYP.
MICROWAVE O/ SLICER
REACH-IN FRIDGE
REACH-IN FREEZER
E
E
E
4
K1.01
INSULATED DEPRESSED SLAB BY G.C. – SEE SECTION
4
K1.01
6 EACH 1" DIA. WEEP HOLES THRU BOTTOM OF SLAB
B
K1.02

EQUIPMENT BLOCKING PLAN

INCREMENT 2

SCALE: 1/8" – 1'-0"

KITCHEN AREA GENERAL NOTES

1. PARTITION LOCATIONS. WALL THICKNESS, FURRING, DOOR SIZES AND LOCATIONS AND WALL CEILING AND FLOOR FINISHES ARE SHOWN ON THE FOOD SERVICE DRAWINGS FOR CONVENIENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL BUILDING CONSTRUCTION, DIMENSIONS AND FINISHES.
2. ALL FABRICATED METAL WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LATEST STANDARD OF THE NATIONAL SANITATION FOUNDATION.
3. ALL CABINET WORK AND WOOD FIXTURES SHALL COMPLY WITH THE LATEST PUBLISHED STANDARDS OF THE CABINET AND FIXTURES MANUFACTURES GUILD.
4. VENTILATING HOODS SHALL COMPLY TO NFPA96–NSF AND ALL APPLICABLE CODES AND ORDINANCES. SEE MECHANICAL DRAWINGS.
5. EXIT DOORS AND HARDWARE TO MEET CALIFORNIA BUILDING CODE SECTION 1008 AND 11B–206.5 FOR ACCESSIBILITY. SEE DOOR SCHEDULE AND SPECIFICATIONS.
6. EMERGENCY LIGHTING SHALL OPERATE ON TWO SOURCES OF POWER. SEE ELECTRICAL DRAWINGS.
7. ALL WOOD ON ROOF SHALL BE COMPLETELY COVERED WITH COMPLETE ROOF COVERING OF CLASS A OR B OR 30 GA. METAL FLASHING.
8. THE OWNER SHALL FURNISH SOAP AND SINGLE SERVICE TOWEL DISPENSERS TO MEET THE CALIFORNIA STATE CODES.
9. THE OWNER SHALL PROVIDE WALL MOUNTED PORTABLE FIRE EXTINGUISHERS TO MEET THE CALIFORNIA STATE FIRE CODES.
10. ALL OPERABLE DOORS AND WINDOWS LOCATED IN THE FOOD SERVICE AREAS SHALL BE SCREENED IN A APPROVED MANNER. – SEE MECHANICAL PLANS FOR FLY FAN INFORMATION.
11. ALL EXTERIOR DOORS SHALL HAVE THRESHOLDS AND BE VARMINT AND RODENT PROOF.
12. THE GENERAL CONTRACTOR SHALL PROVIDE SELF CLOSING DOORS AT THE RESTROOMS.
13. THE ELECTRICAL ENGINEER AND/OR CONTRACTOR SHALL PROVIDE LIGHTING COMPLIANCE REQUIREMENTS TO MEET THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS TITLE 24 AND COMPLETION OF FORM NO. 5.
14. LIGHTING FIXTURES IN KITCHEN AREAS SHALL BE APPROVED FOR FOOD FACILITY USE.
15. THE FOOD SERVICE EQUIPMENT CONTRACTOR SHALL SEAL ALL EQUIPMENT TO WALLS WITH SILICONE CONSTRUCTION SEALANT IN EITHER CLEAR OF APPROVED COLOR TO MATCH SURROUNDING SURFACES.
16. THE OWNER SHALL PROVIDE A LOCKED STORAGE CABINET FOR CHEMICALS AND CLEANING SUPPLIES.
17. ALL CONTRACTORS SHALL OBTAIN A CITY BUSINESS LICENSE BEFORE COMMENCEMENT OF ANY WORK.
18. VERIFY ALL DIMENSIONS WITH ACTUAL BUILDING CONDITIONS.
19. ALL WORK SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA MECHANICAL AND PLUMBING CODES, AND ALL STATE CODES AND ORDINANCES.
20. ALL FOOD SERVICE EQUIPMENT SHALL MEET AND BE INSTALLED PER THE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE DIVISION 22 AND ALL LOCAL HEALTH CODES AND ORDINANCES.
21. CONTRACTORS SHALL OBTAIN AND PAY FOR ALL LICENSES AND PERMITS.
22. CONTRACTOR TO FURNISH AND INSTALL 16 GAGE DUCT FIRE CHASES FROM TOP OF KITCHEN EXHAUST HOOD THRU ROOF CURB, TO 18" MIN. ABOVE ROOF, PER DETAIL 5/M5.01 USING 2 LAYERS OF 3M FIRE BARRIER DUCT WRAP 615+.
23. THE WET CHEMICAL FIRE SUPPRESSION SYSTEM SHALL CONFORM TO (CURRENT) NFPA 17A.
24. INSTALLATION OF THE FIRE SUPPRESSION SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY DSA.
25. UPON COMPLETION OF THE INSTALLATION OF THE FIRE SUPPRESSION SYSTEM, A TEST OF THE SYSTEM SHALL BE CONDUCTED IN THE PRESENCE OF THE ENFORCING AGENCY.

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Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:

Sheet Title:
EQUIPMENT BLOCKING PLAN

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01-31-18
Date: 05/31/18
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DR: --
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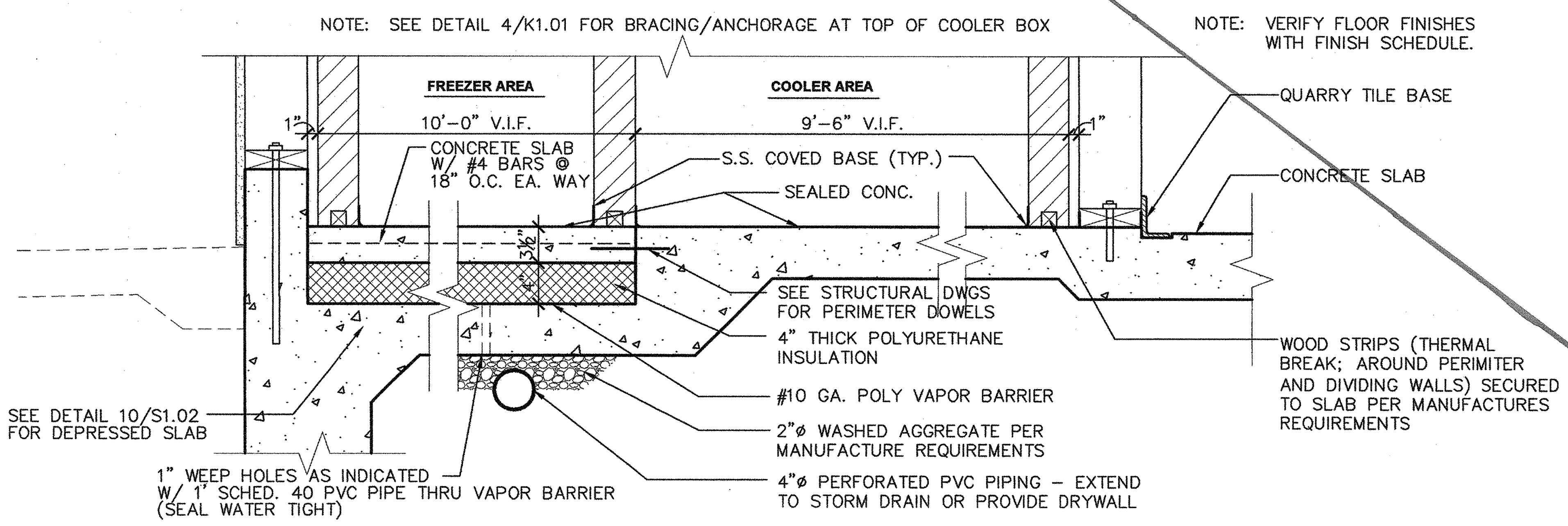
CURTIS E. FLYNN
No. C 28966
REN. 5-31-19
STATE OF CALIFORNIA

Job No.: **5262**

Sheet No.: **K1.02**

Release: -


NOTE: SEE DETAIL 4/K1.01 FOR BRACING/ANCHORAGE AT TOP OF COOLER BOX
NOTE: VERIFY FLOOR FINISHES WITH FINISH SCHEDULE.
FREEZER AREA
COOLER AREA
1"
10'-0" V.I.F.
9'-6" V.I.F.
1"
QUARRY TILE BASE
CONCRETE SLAB W/ #4 BARS @ 18" O.C. EA. WAY
S.S. COVED BASE (TYP.)
SEALED CONC.
CONCRETE SLAB
3½"
4"
SEE STRUCTURAL DWGS FOR PERIMETER DOWELS
4" THICK POLYURETHANE INSULATION
WOOD STRIPS (THERMAL BREAK; AROUND PERIMITER AND DIVIDING WALLS) SECURED TO SLAB PER MANUFACTURES REQUIREMENTS
#10 GA. POLY VAPOR BARRIER
SEE DETAIL 10/S1.02 FOR DEPRESSED SLAB
2"ø WASHED AGGREGATE PER MANUFACTURE REQUIREMENTS
1" WEEP HOLES AS INDICATED W/ 1' SCHED. 40 PVC PIPE THRU VAPOR BARRIER (SEAL WATER TIGHT)
4"ø PERFORATED PVC PIPING – EXTEND TO STORM DRAIN OR PROVIDE DRYWALL

B
K1.02

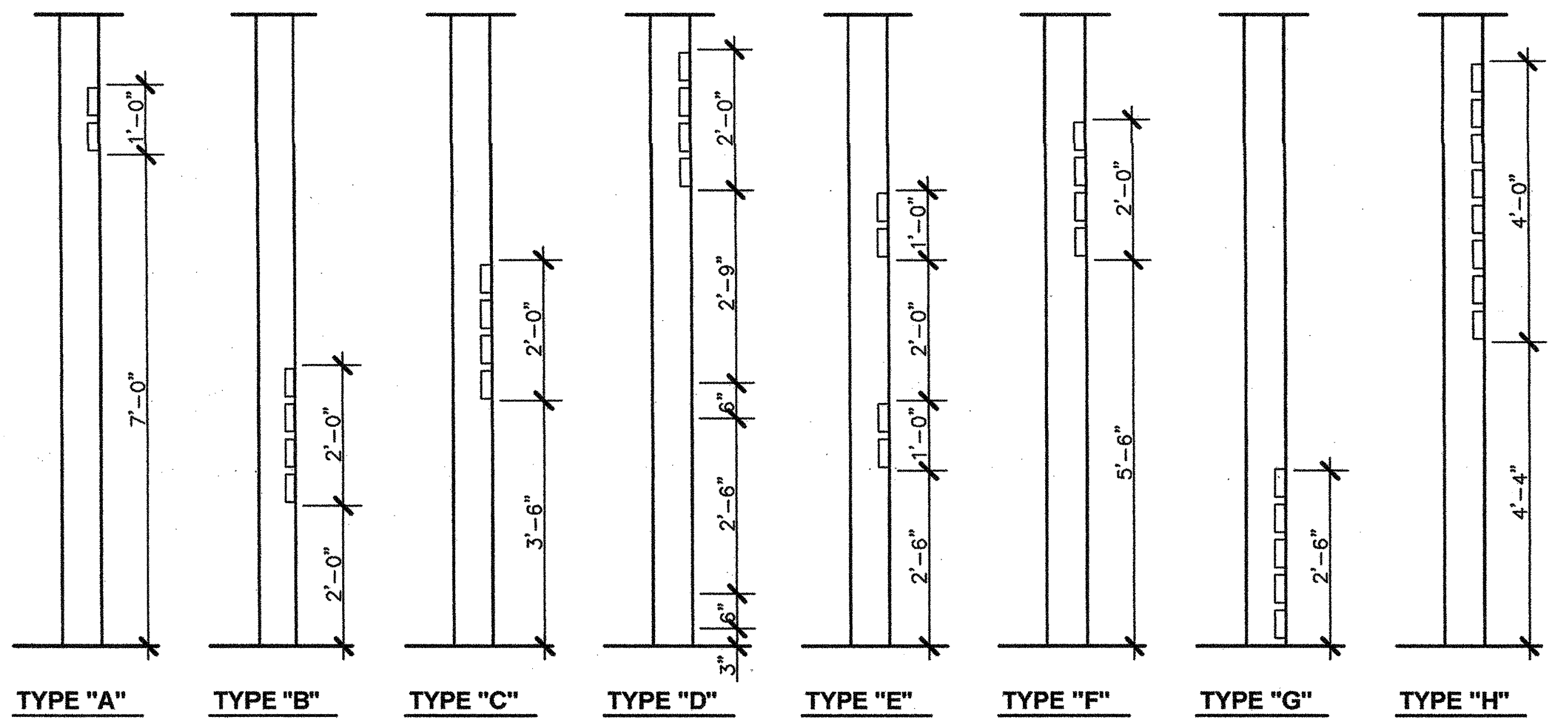
SECTION @ WALK-IN FREEZER/ COOLER DEPRESSION

ADF210-01

SCALE: 1" = 1'-0"

WALL BACKING ——— TYPE

INDICATES WALL BACKING REQUIRED. BACKING TO BE #16 GA. GALVANIZED STEEL. LENGTH AND HEIGHT TO BOTTOM IS AS INDICATED. BACKING TO BE PROVIDED AND INSTALLED BY G.C. PER DETAIL 10A/A8.03

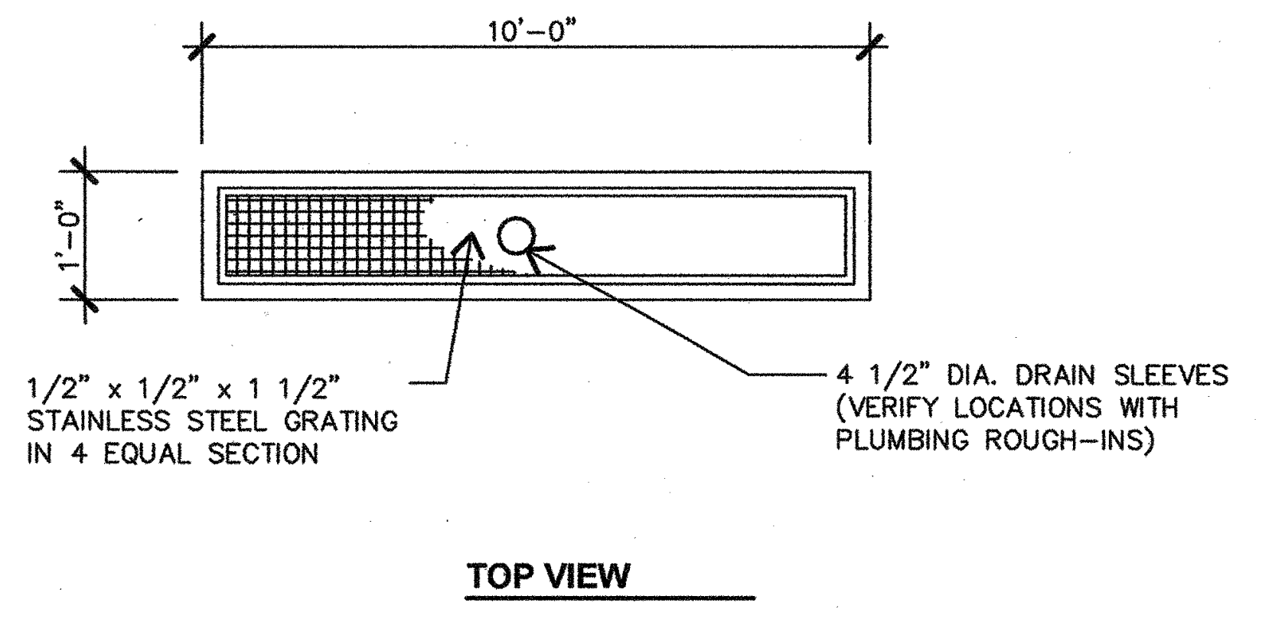

1'-0"
7'-0"
2'-0"
2'-0"
2'-0"
3'-6"
2'-0"
2'-9"
6"
2'-6"
6"
3"
1'-0"
2'-0"
1'-0"
2'-6"
2'-0"
5'-6"
2'-6"
4'-0"
4'-4"
TYPE "A"
TYPE "B"
TYPE "C"
TYPE "D"
TYPE "E"
TYPE "F"
TYPE "G"
TYPE "H"

E
K1.02

WALL BACKING DETAILS

DSM1

1/2" = 1'-0"

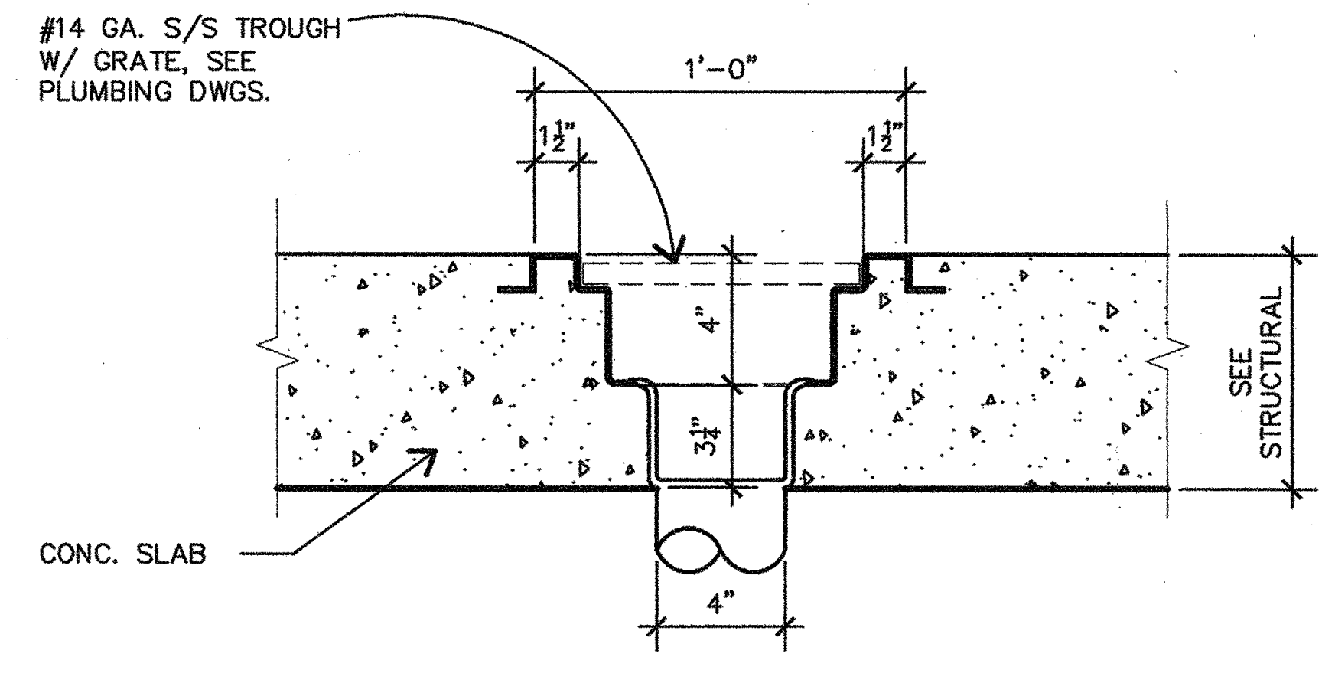

10'-0"
1'-0"
1/2" x 1/2" x 1 1/2" STAINLESS STEEL GRATING IN 4 EQUAL SECTION
4 1/2" DIA. DRAIN SLEEVES (VERIFY LOCATIONS WITH PLUMBING ROUGH-INS)
TOP VIEW

D
K1.02

FLOOR TROUGH

P300203 DSM4

N.T.S.

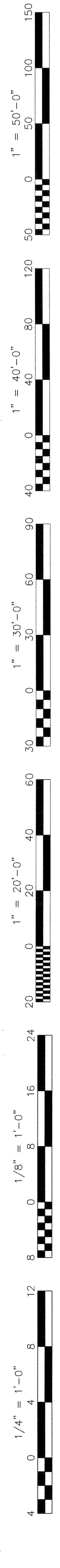

#14 GA. S/S TROUGH W/ GRATE, SEE PLUMBING DWGS.
1'-0"
1½"
1½"
4"
3¼"
SEE STRUCTURAL
CONC. SLAB
4"

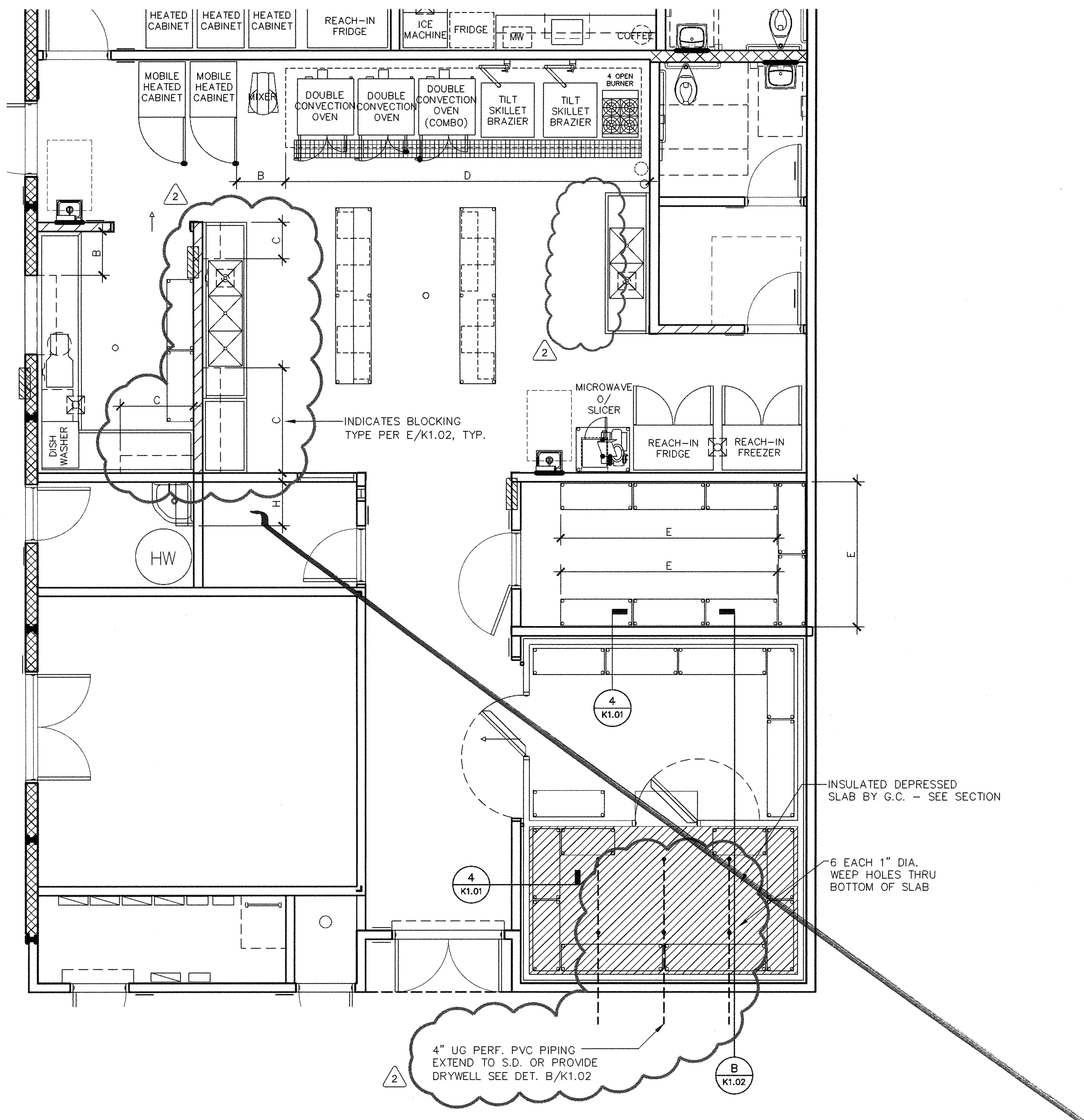
C
K1.02

FLOOR TROUGH

P300204 DSM4

N.T.S.

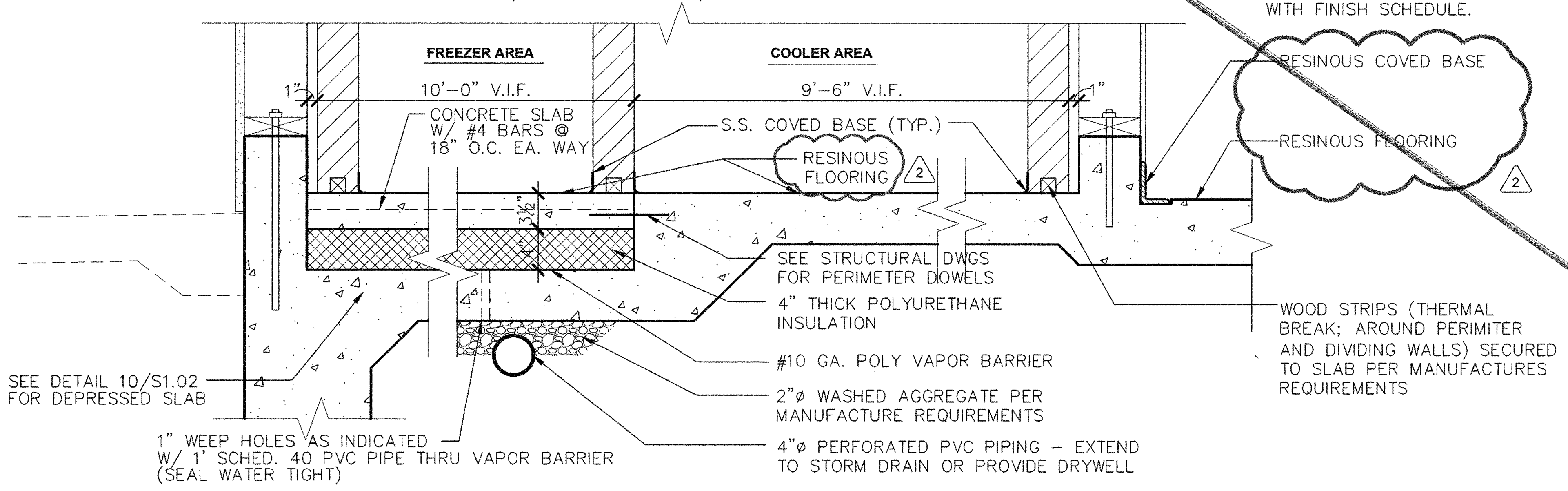

150
100
50
0
1" = 50'-0"
50
120
80
40
0
1" = 40'-0"
40
90
60
30
0
1" = 30'-0"
30
60
40
20
0
1" = 20'-0"
20
24
16
8
0
1/8" = 1'-0"
8
12
8
4
0
1/4" = 1'-0"
4


HEATED CABINET
HEATED CABINET
HEATED CABINET
REACH-IN FRIDGE
ICE MACHINE
FRIDGE
MW
COFFEE
MOBILE HEATED CABINET
MOBILE HEATED CABINET
MIXER
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN (COMBO)
TILT SKILLET BRAZIER
TILT SKILLET BRAZIER
4 OPEN BURNER
B
D
2
B
C
C
C
2
MICROWAVE O/ SLICER
REACH-IN FRIDGE
REACH-IN FREEZER
DISH WASHER
INDICATES BLOCKING TYPE PER E/K1.02, TYP.
H
HW
E
E
E
4 K1.01
INSULATED DEPRESSED SLAB BY G.C. – SEE SECTION
4 K1.01
6 EACH 1" DIA. WEEP HOLES THRU BOTTOM OF SLAB
4" UG PERF. PVC PIPING EXTEND TO S.D. OR PROVIDE DRYWELL SEE DET. B/K1.02
2
B K1.02

EQUIPMENT BLOCKING PLAN

INCREMENT 2

SCALE: N.T.S.


NOTE: SEE DETAIL 4/K1.01 FOR BRACING/ANCHORAGE AT TOP OF COOLER BOX
NOTE: VERIFY FLOOR FINISHES WITH FINISH SCHEDULE.
FREEZER AREA
COOLER AREA
1"
10'-0" V.I.F.
9'-6" V.I.F.
1"
CONCRETE SLAB W/ #4 BARS @ 18" O.C. EA. WAY
S.S. COVED BASE (TYP.)
RESINOUS FLOORING
2
RESINOUS COVED BASE
RESINOUS FLOORING
2
3½"
4"
SEE STRUCTURAL DWGS FOR PERIMETER DOWELS
4" THICK POLYURETHANE INSULATION
#10 GA. POLY VAPOR BARRIER
2"ø WASHED AGGREGATE PER MANUFACTURE REQUIREMENTS
4"ø PERFORATED PVC PIPING – EXTEND TO STORM DRAIN OR PROVIDE DRYWELL
WOOD STRIPS (THERMAL BREAK; AROUND PERIMITER AND DIVIDING WALLS) SECURED TO SLAB PER MANUFACTURES REQUIREMENTS
SEE DETAIL 10/S1.02 FOR DEPRESSED SLAB
1" WEEP HOLES AS INDICATED W/ 1' SCHED. 40 PVC PIPE THRU VAPOR BARRIER (SEAL WATER TIGHT)

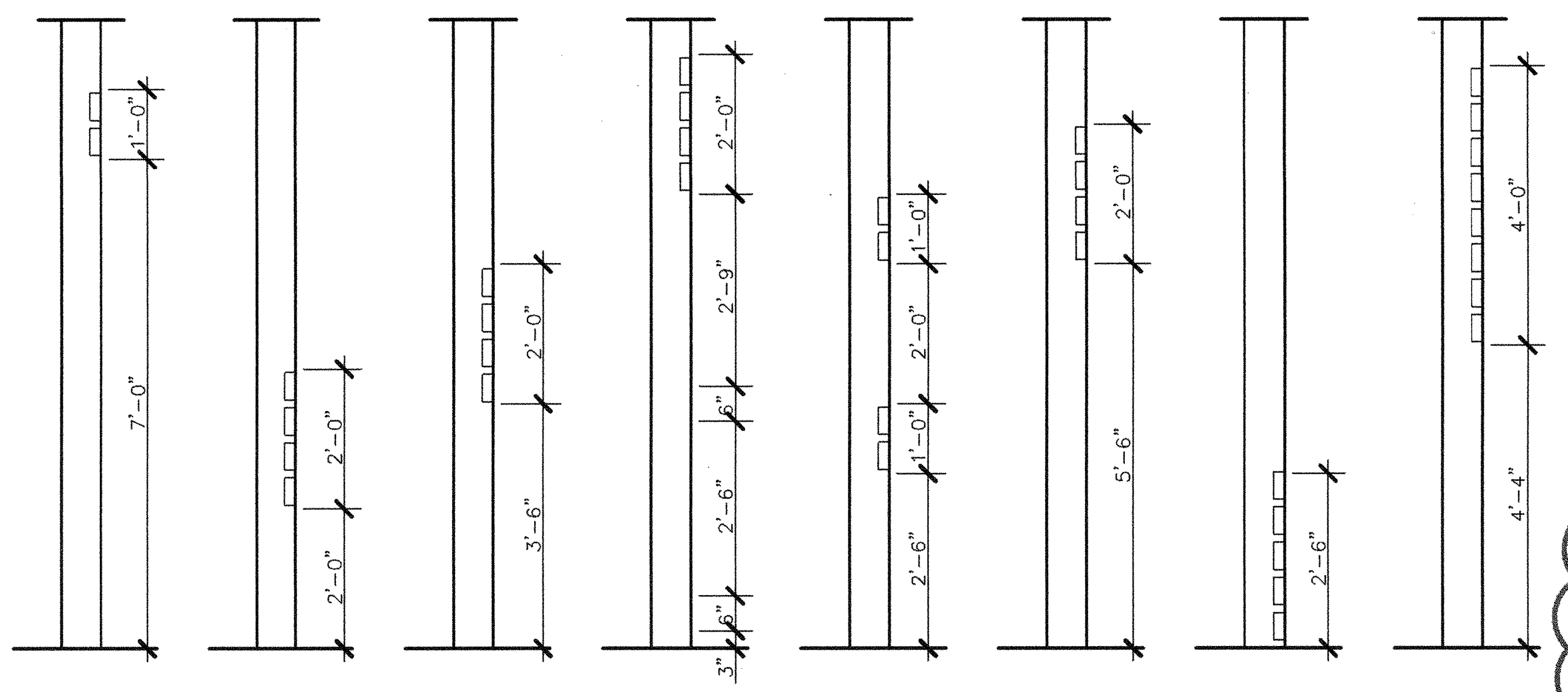
B K1.02 **SECTION @ WALK-IN FREEZER/ COOLER DEPRESSION**

ADF210-01

SCALE: 1' = 1'-0"

WALL BACKING ——— TYPE

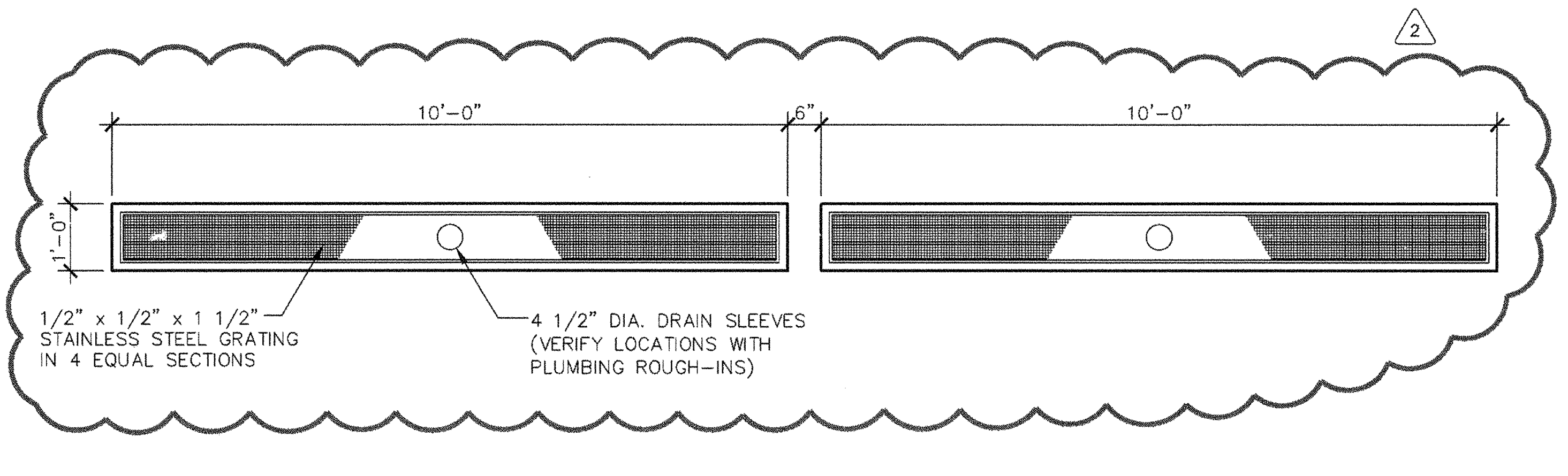
INDICATES WALL BACKING REQUIRED. BACKING TO BE #16 GA. GALVANIZED STEEL. LENGTH AND HEIGHT TO BOTTOM IS AS INDICATED. BACKING TO BE PROVIDED AND INSTALLED BY G.C. PER DETAIL 10A/A8.03


1'-0"
7'-0"
2'-0"
2'-0"
2'-0"
3'-6"
2'-0"
2'-9"
6"
2'-6"
6"
3"
1'-0"
2'-0"
1'-0"
2'-6"
2'-0"
5'-6"
2'-6"
4'-0"
4'-4"
TYPE "A"
TYPE "B"
TYPE "C"
TYPE "D"
TYPE "E"
TYPE "F"
TYPE "G"
TYPE "H"

E K1.02 **WALL BACKING DETAILS**

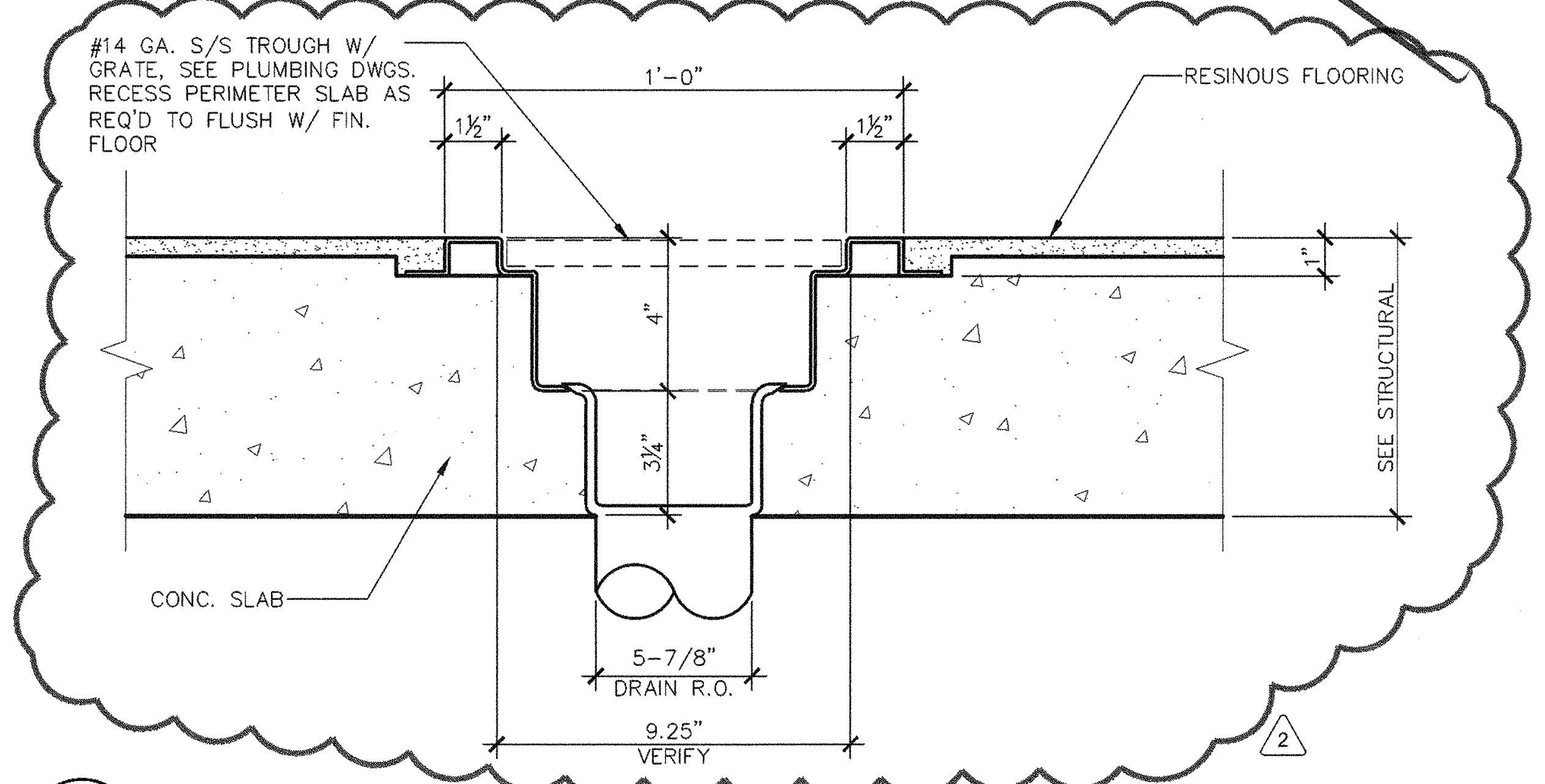
DSM1

1/2" = 1'-0"


2
10'-0"
6"
10'-0"
1'-0"
1/2" x 1/2" x 1 1/2" STAINLESS STEEL GRATING IN 4 EQUAL SECTIONS
4 1/2" DIA. DRAIN SLEEVES (VERIFY LOCATIONS WITH PLUMBING ROUGH-INS)

D K1.02 **FLOOR TROUGH**

SCALE: 1' = 1'-0"


#14 GA. S/S TROUGH W/ GRATE, SEE PLUMBING DWGS. RECESS PERIMETER SLAB AS REQ'D TO FLUSH W/ FIN. FLOOR
1'-0"
1½"
1½"
RESINOUS FLOORING
1"
4"
3¼"
SEE STRUCTURAL
CONC. SLAB
5-7/8" DRAIN R.O.
9.25" VERIFY
2

C K1.02 **FLOOR TROUGH**

SCALE: 1' = 1'-0"

KITCHEN AREA GENERAL NOTES

1. PARTITION LOCATIONS. WALL THICKNESS, FURRING, DOOR SIZES AND LOCATIONS AND WALL CEILING AND FLOOR FINISHES ARE SHOWN ON THE FOOD SERVICE DRAWINGS FOR CONVENIENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL BUILDING CONSTRUCTION, DIMENSIONS AND FINISHES.
2. ALL FABRICATED METAL WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LATEST STANDARD OF THE NATIONAL SANITATION FOUNDATION.
3. ALL CABINET WORK AND WOOD FIXTURES SHALL COMPLY WITH THE LATEST PUBLISHED STANDARDS OF THE CABINET AND FIXTURES MANUFACTURES GUILD.
4. VENTILATING HOODS SHALL COMPLY TO NFPA96–NSF AND ALL APPLICABLE CODES AND ORDINANCES. SEE MECHANICAL DRAWINGS.
5. EXIT DOORS AND HARDWARE TO MEET CALIFORNIA BUILDING CODE SECTION 1008 AND 11B–206.5 FOR ACCESSIBILITY. SEE DOOR SCHEDULE AND SPECIFICATIONS.
6. EMERGENCY LIGHTING SHALL OPERATE ON TWO SOURCES OF POWER. SEE ELECTRICAL DRAWINGS.
7. ALL WOOD ON ROOF SHALL BE COMPLETELY COVERED WITH COMPLETE ROOF COVERING OF CLASS A OR B OR 30 GA. METAL FLASHING.
8. THE OWNER SHALL FURNISH SOAP AND SINGLE SERVICE TOWEL DISPENSERS TO MEET THE CALIFORNIA STATE CODES.
9. THE OWNER SHALL PROVIDE WALL MOUNTED PORTABLE FIRE EXTINGUISHERS TO MEET THE CALIFORNIA STATE FIRE CODES.
10. ALL OPERABLE DOORS AND WINDOWS LOCATED IN THE FOOD SERVICE AREAS SHALL BE SCREENED IN A APPROVED MANNER. – SEE MECHANICAL PLANS FOR FLY FAN INFORMATION.
11. ALL EXTERIOR DOORS SHALL HAVE THRESHOLDS AND BE VARMINT AND RODENT PROOF.
12. THE GENERAL CONTRACTOR SHALL PROVIDE SELF CLOSING DOORS AT THE RESTROOMS.
13. THE ELECTRICAL ENGINEER AND/OR CONTRACTOR SHALL PROVIDE LIGHTING COMPLIANCE REQUIREMENTS TO MEET THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS TITLE 24 AND COMPLETION OF FORM NO. 5.
14. LIGHTING FIXTURES IN KITCHEN AREAS SHALL BE APPROVED FOR FOOD FACILITY USE.
15. THE FOOD SERVICE EQUIPMENT CONTRACTOR SHALL SEAL ALL EQUIPMENT TO WALLS WITH SILICONE CONSTRUCTION SEALANT IN EITHER CLEAR OF APPROVED COLOR TO MATCH SURROUNDING SURFACES.
16. THE OWNER SHALL PROVIDE A LOCKED STORAGE CABINET FOR CHEMICALS AND CLEANING SUPPLIES.
17. ALL CONTRACTORS SHALL OBTAIN A CITY BUSINESS LICENSE BEFORE COMMENCEMENT OF ANY WORK.
18. VERIFY ALL DIMENSIONS WITH ACTUAL BUILDING CONDITIONS.
19. ALL WORK SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA MECHANICAL AND PLUMBING CODES, AND ALL STATE CODES AND ORDINANCES.
20. ALL FOOD SERVICE EQUIPMENT SHALL MEET AND BE INSTALLED PER THE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE DIVISION 22 AND ALL LOCAL HEALTH CODES AND ORDINANCES.
21. CONTRACTORS SHALL OBTAIN AND PAY FOR ALL LICENSES AND PERMITS.
22. CONTRACTOR TO FURNISH AND INSTALL 16 GAGE DUCT FIRE CHASES FROM TOP OF KITCHEN EXHAUST HOOD THRU ROOF CURB, TO 18" MIN. ABOVE ROOF, PER DETAIL 5/M5.01 USING 2 LAYERS OF 3M FIRE BARRIER DUCT WRAP 615+.
23. THE WET CHEMICAL FIRE SUPPRESSION SYSTEM SHALL CONFORM TO (CURRENT) NFPA 17A.
24. INSTALLATION OF THE FIRE SUPPRESSION SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY DSA.
25. UPON COMPLETION OF THE INSTALLATION OF THE FIRE SUPPRESSION SYSTEM, A TEST OF THE SYSTEM SHALL BE CONDUCTED IN THE PRESENCE OF THE ENFORCING AGENCY.

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6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559) 436–0881 Fax (559) 436–0887 E–Mail: design@somam.com
www.integrateddesigns.com

Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:
2	ADDENDUM #2	08/24/18			

918
652 505

Sheet Title:
EQUIPMENT BLOCKING PLAN

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01–31–18
Date: 08/31/18
Designer: --
DR: --
PC: PC INITIALS

Agency Approval Stamp:

FILE #: 15–6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03–118394
AC____FLS____SS____
DATE____________
TRACKING #: 63321–300

Stamp(s):

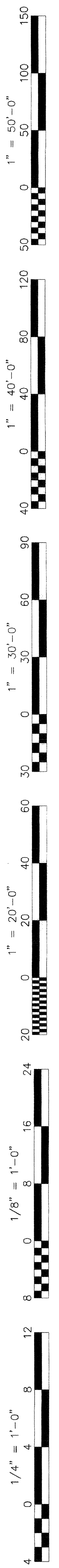
CURTIS E. FLYNN
No. C 28966
REN. 5–31–19

Job No.: **5262**

Sheet No.: **K1.02**

Release: - ADDENDUM #2

G:\2017frs\17-5262 BCSD New Elementary\Sheets\New Subset (1)\Architectural\K-100s Kitchen Plans\5262-K1.02 EQUIPMENT BLOCKING PLAN.dwg **RICHARD DELLANINI**


150
100
50
0
50
1" = 50'-0"
120
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40
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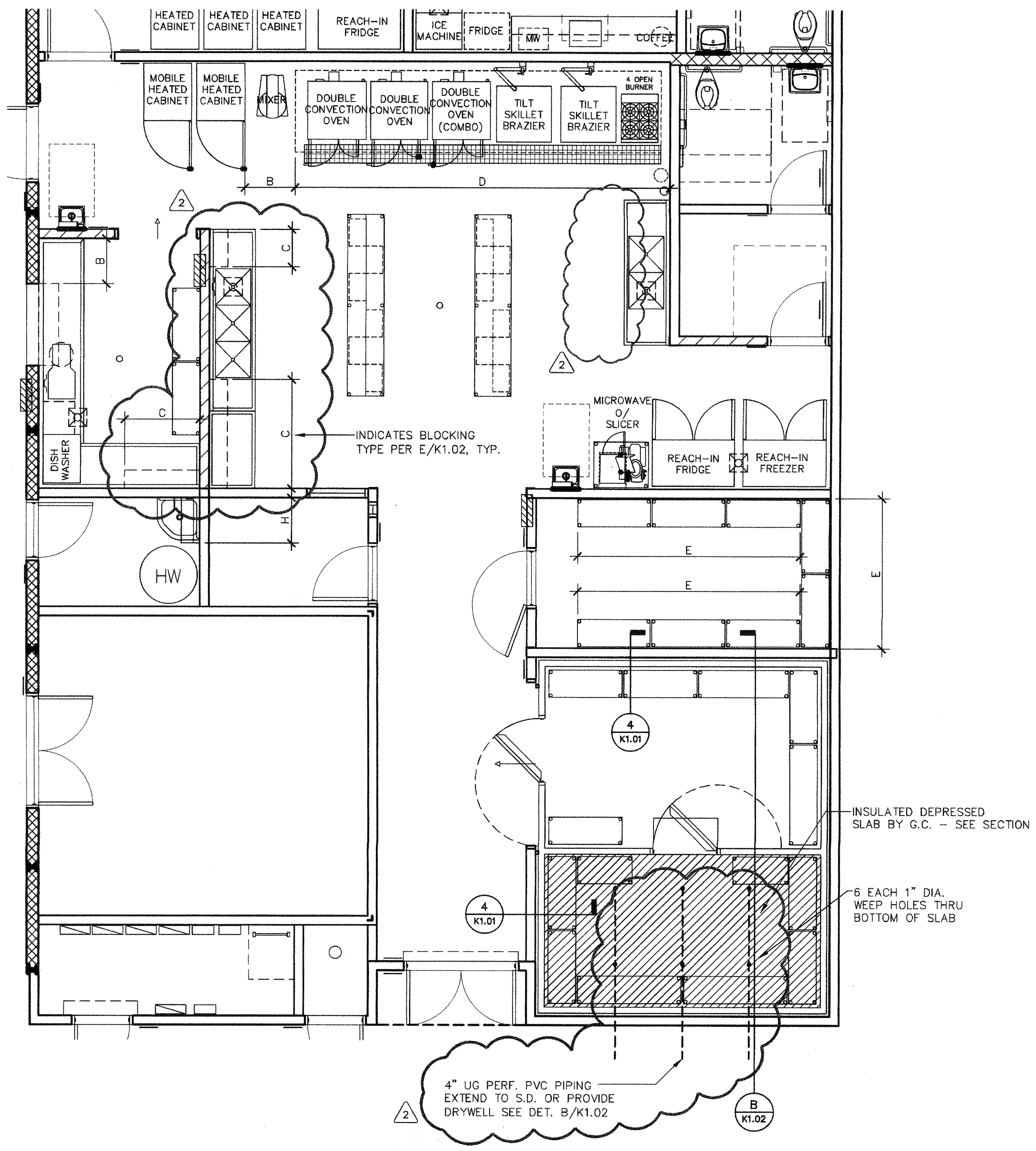
40
1" = 40'-0"
90
60
30
0
30
1" = 30'-0"
60
40
20
0
20
1" = 20'-0"
24
16
8
0
8
1/8" = 1'-0"
12
8
4
0
4
1/4" = 1'-0"


HEATED CABINET
HEATED CABINET
HEATED CABINET
REACH-IN FRIDGE
ICE MACHINE
FRIDGE
MW
COFFEE
MOBILE HEATED CABINET
MOBILE HEATED CABINET
MIXER
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN
DOUBLE CONVECTION OVEN (COMBO)
TILT SKILLET BRAZIER
TILT SKILLET BRAZIER
4 OPEN BURNER
B
D
B
C
C
C
H
2
2
DISH WASHER
INDICATES BLOCKING TYPE PER E/K1.02, TYP.
MICROWAVE O/ SLICER
REACH-IN FRIDGE
REACH-IN FREEZER
HW
E
E
E
4
K1.01
4
K1.01
INSULATED DEPRESSED SLAB BY G.C. – SEE SECTION
6 EACH 1" DIA. WEEP HOLES THRU BOTTOM OF SLAB
4" UG PERF. PVC PIPING EXTEND TO S.D. OR PROVIDE DRYWELL SEE DET. B/K1.02
2
B
K1.02

EQUIPMENT BLOCKING PLAN

INCREMENT 2

SCALE: N.T.S.

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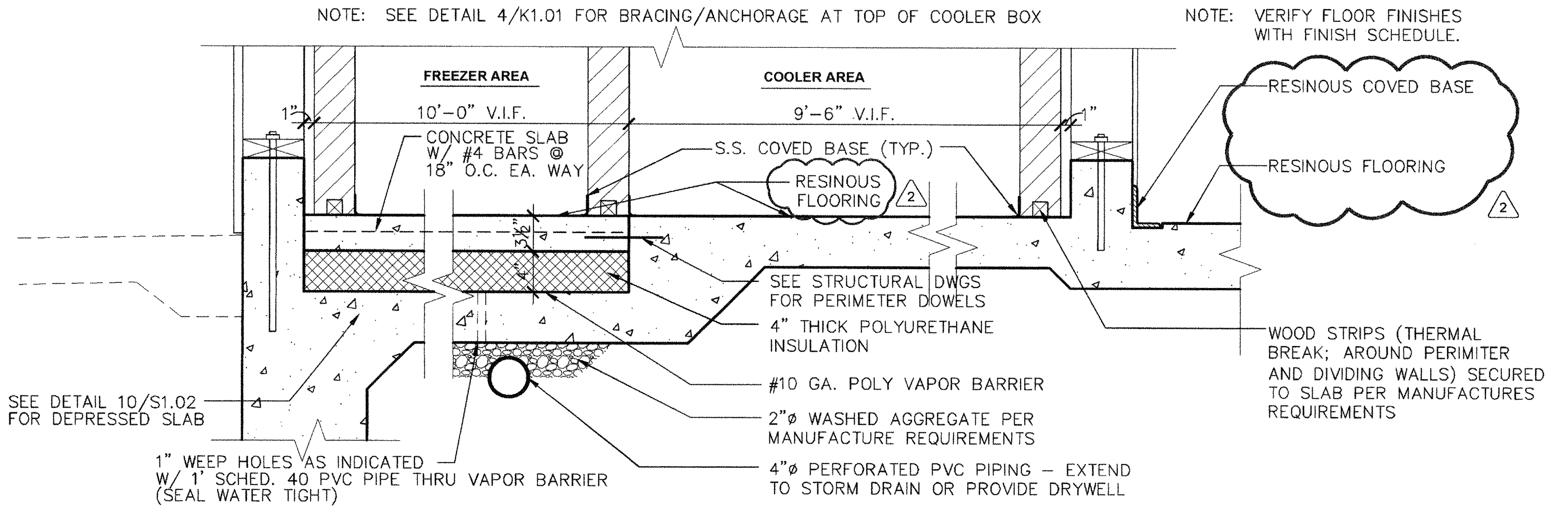

NOTE: SEE DETAIL 4/K1.01 FOR BRACING/ANCHORAGE AT TOP OF COOLER BOX
NOTE: VERIFY FLOOR FINISHES WITH FINISH SCHEDULE.
FREEZER AREA
COOLER AREA
1"
10'-0" V.I.F.
9'-6" V.I.F.
1"
CONCRETE SLAB W/ #4 BARS @ 18" O.C. EA. WAY
S.S. COVED BASE (TYP.)
RESINOUS FLOORING
2
RESINOUS COVED BASE
RESINOUS FLOORING
2
3½"
4"
SEE STRUCTURAL DWGS FOR PERIMETER DOWELS
4" THICK POLYURETHANE INSULATION
#10 GA. POLY VAPOR BARRIER
2"ø WASHED AGGREGATE PER MANUFACTURE REQUIREMENTS
4"ø PERFORATED PVC PIPING – EXTEND TO STORM DRAIN OR PROVIDE DRYWELL
WOOD STRIPS (THERMAL BREAK; AROUND PERIMITER AND DIVIDING WALLS) SECURED TO SLAB PER MANUFACTURES REQUIREMENTS
SEE DETAIL 10/S1.02 FOR DEPRESSED SLAB
1" WEEP HOLES AS INDICATED W/ 1' SCHED. 40 PVC PIPE THRU VAPOR BARRIER (SEAL WATER TIGHT)

B
K1.02

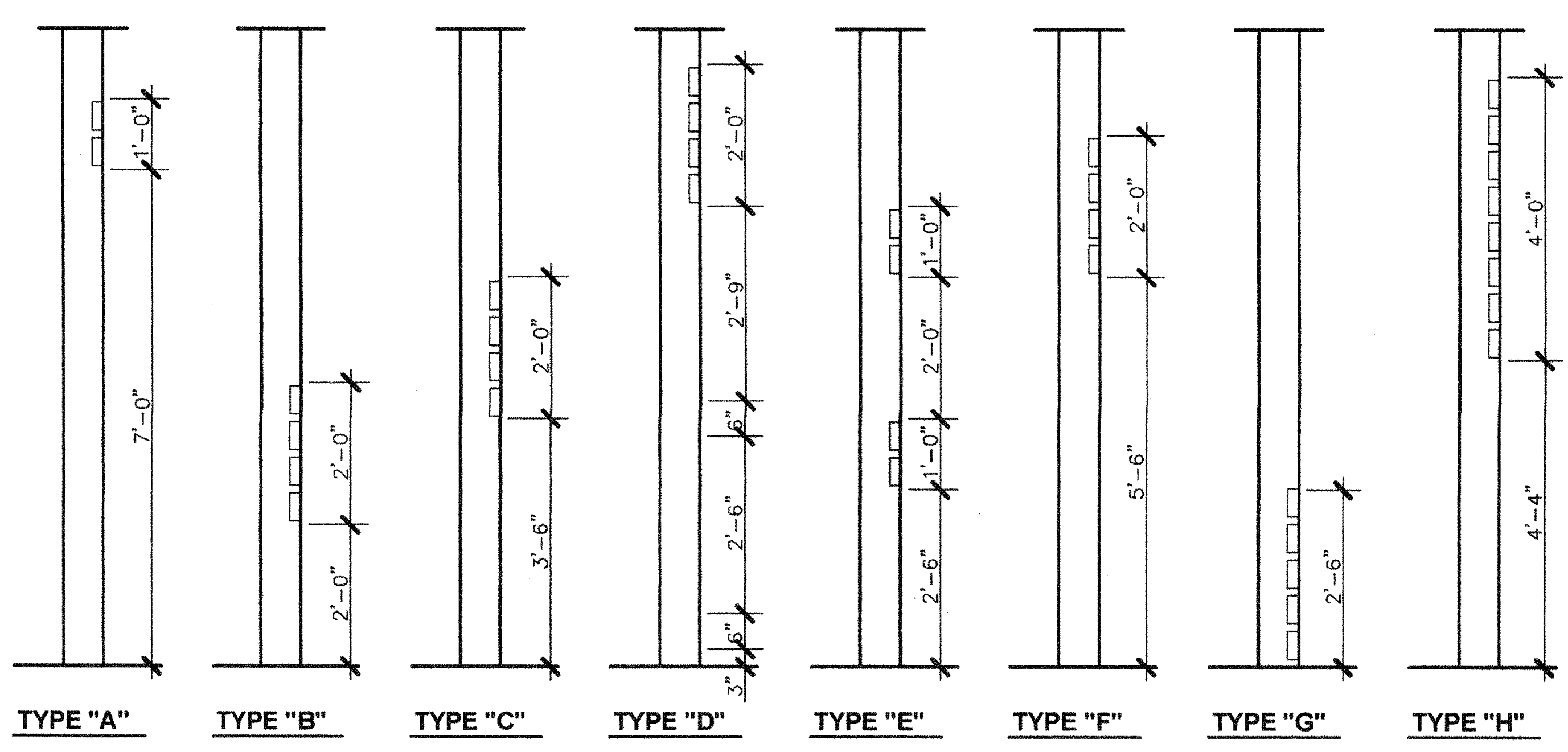
SECTION @ WALK-IN FREEZER/ COOLER DEPRESSION

ADF210-01

SCALE: 1' = 1'-0"

WALL BACKING ———— TYPE

INDICATES WALL BACKING REQUIRED. BACKING TO BE #16 GA. GALVANIZED STEEL. LENGTH AND HEIGHT TO BOTTOM IS AS INDICATED. BACKING TO BE PROVIDED AND INSTALLED BY G.C. PER DETAIL 10A/A8.03

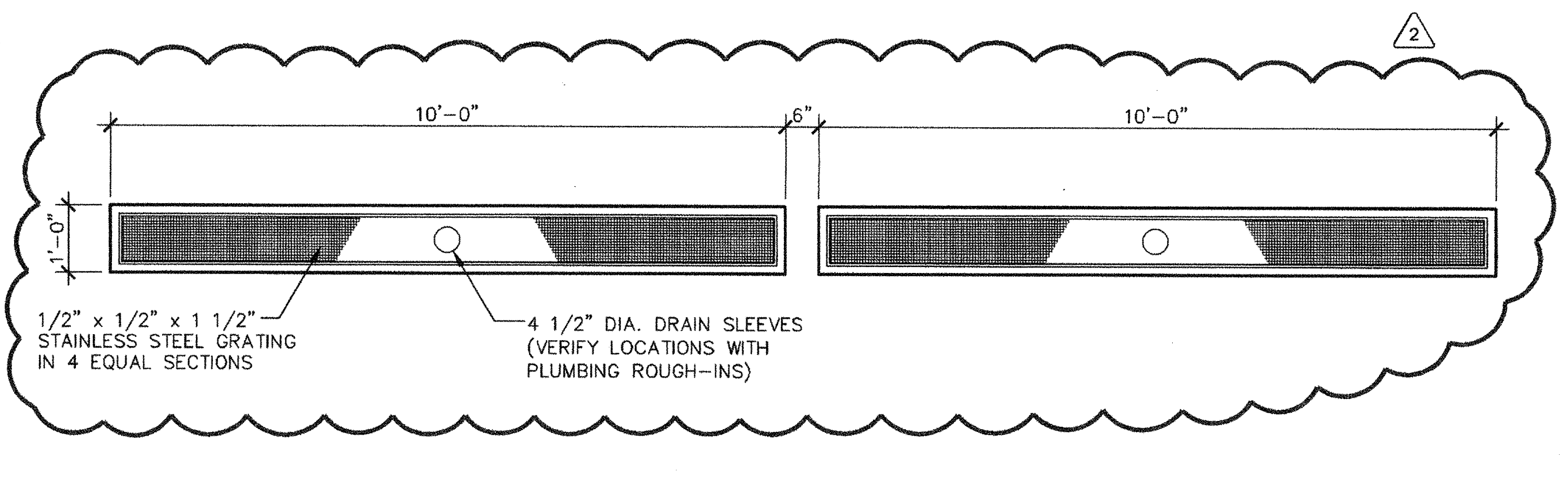

1'-0"
7'-0"
2'-0"
2'-0"
2'-0"
3'-6"
2'-0"
2'-9"
6"
2'-6"
6"
3"
1'-0"
2'-0"
1'-0"
2'-6"
2'-0"
5'-6"
2'-6"
4'-0"
4'-4"
TYPE "A"
TYPE "B"
TYPE "C"
TYPE "D"
TYPE "E"
TYPE "F"
TYPE "G"
TYPE "H"

E
K1.02

WALL BACKING DETAILS

DSM1

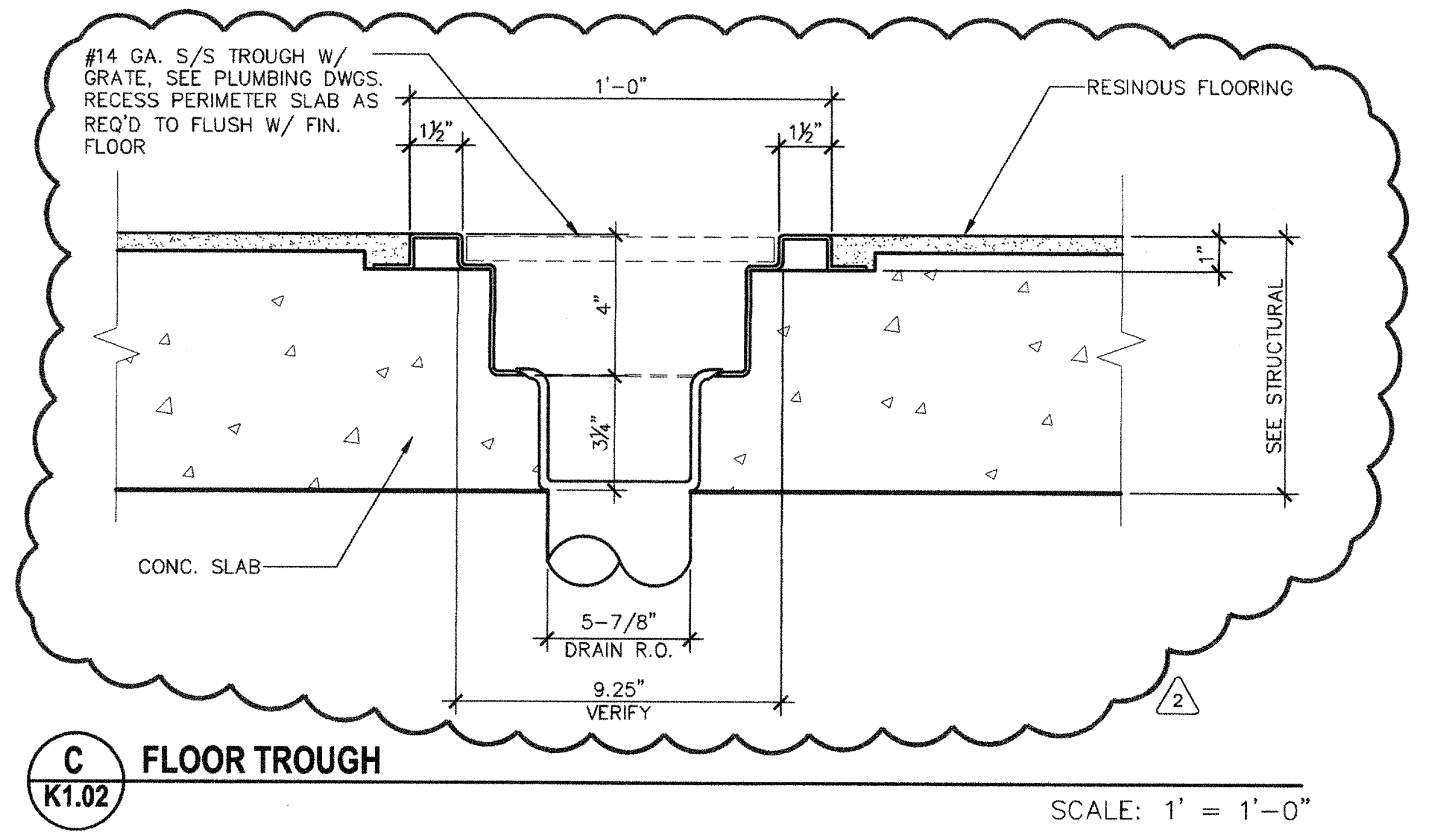
1/2" = 1'-0"


2
10'-0"
6"
10'-0"
1'-0"
1/2" x 1/2" x 1 1/2" STAINLESS STEEL GRATING IN 4 EQUAL SECTIONS
4 1/2" DIA. DRAIN SLEEVES (VERIFY LOCATIONS WITH PLUMBING ROUGH-INS)

D
K1.02

FLOOR TROUGH

SCALE: 1' = 1'-0"


#14 GA. S/S TROUGH W/ GRATE, SEE PLUMBING DWGS. RECESS PERIMETER SLAB AS REQ'D TO FLUSH W/ FIN. FLOOR
1'-0"
1½"
1½"
RESINOUS FLOORING
1"
4"
3¼"
SEE STRUCTURAL
CONC. SLAB
5-7/8" DRAIN R.O.
9.25" VERIFY
2

C
K1.02

FLOOR TROUGH

SCALE: 1' = 1'-0"

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Phone (559) 436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:
2	ADDENDUM #2	08/24/18			

Sheet Title:
EQUIPMENT BLOCKING PLAN

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01-31-18
Date: 08/31/18
Designer: --
DR: --
PC: PC INITIALS

Agency Approval Stamp:

FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC SC FLS SH SS TN
DATE 4/8/19
TRACKING #: 63321-300
ADDENDUM #2

Stamp(s):

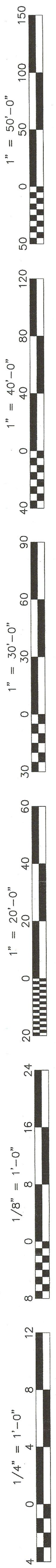
CURTIS E. FLYNN
No. C 28966
5-31-

Job No.: **5262**

Sheet No.: **K1.02**

Release: - ADDENDUM #2

G:\2017frs\17-5262 BCSD New Elementary\Sheets\New Subset (1)\Architectural\K-100s Kitchen Plans\5262-K1.02 EQUIPMENT BLOCKING PLAN.dwg RICHARD DELLANINI



ITEM 1 DOUBLE CONVECTION OVEN **THREE REQUIRED (1 IS COMBO)**

MONTAGUE RANGE MODEL NO. 2-15A PACKED: EA.
MASTER SERIES CONVECION OVEN, GAS, DOUBLE-DECK, DEEP DEPTH 43", (2) SPEED FAN, MASTER 450 SOLID STATE DIGITAL CONTROL WITH COOK 'N' HOLD, ELECTRIC IGNITION, DEPENDENT 60/40 DOORS WITH WINDOWS, STAINLESS STEEL FRONT, SIDES & TOP, PORCELAIN CAVITY, 6 ½" LEGS, ENERLOGIC TECHNOLOGY, 115,000 BTU (GARLAND), CE, Cul, NSF

(2) YEAR LIMITED PARTS & (1) YEAR LABOR WARRANTY, DOOR WARRANTY (5) YEAR LIMITED PARTS EXCEPT WINDOW, COVERS PRODUCTS PURCHASED AND INSTALLED IN THE USA & CANADA ONLY, STANDARD.

GAS TYPE TO BE SPECIFIED

(2) 120v/60/1-ph, 9.8 amps, 6' CORD & NEMA 5-15P, STANDARD

ITEM 2 TILT SKILLET (BRAZIER) **TWO REQUIRED**

VULCAN MODEL: VG30 PACKED: EA

MODULAR GAS TILTING BRAISING PAN. 36" WIDE OPEN BASE. STAINLESS STEEL FRONT, SIDES AND 12" LEGS WITH ADJUSTABLE FLANGED FEET. STAINLESS STEEL BACK. FRONT HINGED POLISHED STAINLESS STEEL PAN BODY WITH COVED INTERIOR CORNERS AND EMBOSSED GALLON MARKINGS. STAINLESS STEEL COOKING SURFACE BONDED TO STEEL PLATE. FULL WIDTH 4" RETURN FLANGE WITH FORMED POURING LIP AND REMOVABLE STRAINER. STAINLESS STEEL SPRING ASSIST COVER WITH WRAP AROUND HANDLE AND CONDENSATE LIP. FAUCET MOUNTING BRACKET (NON-ENCLOSED) FIELD REVERSIBLE "L" BRACKET EITHER SIDE. DROP AWAY FOOD RECEIVING PAN SUPPORT MOUNTS UNDER POURING LIP. MANUALLY OPERATED PAN TILTING MECHANISM WITH REMOVABLE HANDLE. PAN CAN BE FULLY TILTED TO EMPTY COMPLETELY WITH APPROXIMATELY 30 CRANK REVOLUTIONS. ONE 30,000 BTU/HR. BURNER FOR EACH 12" PAN WIDTH. BURNERS SHUT OFF WHEN PAN IS TILTED 5°. ELECTRONIC IGNITION SYSTEM FOR AUTOMATIC BURNER LIGHT. SOLID STATE TEMPERATURE CONTROLS. WATER TIGHT CONTROLS AND ENCLOSURES.

REQUIRES A 120/60/1 ELECTRICAL POWER SUPPLY, 9.0 AMPS TOTAL DRAW. 3/4" REAR GAS CONNECTION AND INTERNAL GAS COMBINATION VALVE WITH INTEGRAL REGULATOR.

(1) ONE YEAR PARTS AND LABOR LIMITED WARRANTY

ITEM 3 RANGE, 24", 4 OPEN BURNERS **ONE REQUIRED**

SOUTHBEND MODEL 4367D, PACKED: EA.
FREESTANDING RANGE, GAS, 24"W, (4) 33,000 BTU/HR EACH LIFT-OFF TOP OPEN BURNERS, 1 STANDARD OVEN W/(1) RACK, STAINLESS STEEL EXTERIOR AT FRONT, SIDES & BACK RISER LIFT-OFF HIGH SHELF, FULL STAINLESS STEEL OVEN INTERIOR, ADJUSTABLE OVEN THERMOSTAT, S/S ADJUSTABLE LEGS STANDARD, REGULATOR INCLUDED, 180,000 BTU TOTAL, CSA CERTIFIED

ONE YEAR LABOR AND PARTS WARRANTY, STANDARD

NATURAL GAS

0017	Dishwasher not available	Question by: BP#23 - Kitcor We have been notified by the dishwasher manufacturer American Dish Service that the specified dishwasher is not available: American Dish Service does not manufacturer a 5 AG (double Rack) with a vent-less option. They do however offer a double rack with a 27" door opening only as a pass-thru unit, not a corner machine as indicated on the drawings. Furthermore, the dishwasher description for item #4 on sheet k1.03 is calling for both a low-temperature dishwasher and high-temperature dishwasher with a built-in booster. Clarification is required if this dishwasher is a corner or a pass-thru unit and if it is a high-temperature or a low-temperature dishwasher. The architect might consider another manufacturer either Champion or Jackson.	See the attached Hobart AM Select Tall Dishwasher with electric booster heater. The dishwasher is a corner unit. Furnish single electrical connection.	Closed

ITEM 4 DISHWASHER, DOOR TYPE **ONE REQUIRED**

AMERICAN DISH SERVICE MODEL NO. 5AG PACKED: EA.
DISHWASHER, DOOR TYPE, EXTENDED HOOD (27" OPENING FOR TRAYS), LOW TEMPERATURE, VENTLESS HEAT RECOVERY, BUILT-IN STAINLESS STEEL ELECTRIC BOOSTER FOR (40° 70° RISE), FIELD CONVERTIBLE FROM SINGLE TO THREE PHASE, AUTO START WHEN HOOD IS CLOSED, SINGLE POINT ELECTRICAL CONNECTION, 2hp SELF DRAINING PUMP, 53 RACKS/HOUR CAPACITY, AUTO-FILL, DETERGENT & CHEMICAL CONNECTIONS, INTERCHANGEABLE UPPER AND LOWER SPRAY ARMS, AUTOMATIC DRAIN VALVE, VENT FAN CONTROL, BOTTOM MOUNTED DIGITAL CONTROLS, MOUNTED WATER PRV, SLOPED HOOD, STAINLESS STEEL CONSTRUCTION, ELECTRIC TANK HEAT, PEG RACK, FLAT RACK, DUAL NSF LISTED, UL, ENERGY STAR® RATED

ONE YEAR LIMITED WARRANTY, STANDARD

208-240v/60/3-ph, 49-56 amps

STRAIGHT-THROUGH DESIGN APPLICATION

ITEM 5 MICROWAVE OVEN **ONE REQUIRED**

PANASONIC MODEL NO. NE-1257R PACKED: EA.
PRO 1 COMMERCIAL MICROWAVE OVEN, 1200 WATTS, COMPACT, 60 PROGRAMMABLE MEMORY PADS, 3 POWER LEVELS, TIMER: 15 MIN. HI-MED POWER/30 MIN. DEFROST POWER, SEE-THRU SIDE HINGE DOOR, S/S CABINET AND CAVITY, STACKABLE, DIGITAL DISPLAY, CAVITY DIMENSIONS; 13"Wx12"Dx 6-7/8"H, 120v/60/1-ph, 17.7 AMPS, UL, NSF

1 YEAR PARTS & LABOR WARRANTY AND 3 YEAR MAGNETRON WARRANTY (LABOR FOR MAGNETRON REPLACEMENT IS NOT COVERED IN YEARS 2 AND 3)

NEMA 5-20P, 2 POLE, 3 WIRE

ITEM 6 REACH-IN FREEZER **ONE REQUIRED**

TO BE SELECTED BY OWNER

ITEM 7 AIR CURTAIN **TWO REQUIRED**

BERNER ARISTOCRAT MODEL NO. ASN 2070A 120V,15 AMP OR 208/240V, 7.6 AMPS 84 POUNDS
ANCHOR TO WALL FRAMING/BLKING PER 15/A3.03 W/ 6# 12"x5" WOOD SCREWS (T & B @ ENDS & CENTER)

ITEM 8 MOBILE HEATED CABINET **FIVE REQUIRED**

METRO MODEL NO. C-569-SDS-U PACKED: EA.
HEAVY DUTY TRANSPORT CART, HEATED, MOBILE, INSULATED, TOP MOUNTED HEAT, UNIVERSAL SLIDES (PANS/TRAYS NOT INCLUDED), SLIDES ON 3 ½" SPACING, SLIDES ADJUSTABLE IN 1 ¾" INCREMENTS, THERMOMETER, RECESSED CONTROLS, FLUSH MOUNTED DOOR, LATCH & HANDLES, 5" SWIVEL CASTERS, STAINLESS STEEL CONSTRUCTION, WRAP-AROUND BUMPERS, 120v/60/1ph, 2,000w, 16.0 amps,
NEMA 5-15P, Cul, CSA, NSF, EnergyStar

1 YEAR PARTS AND LABOR

ITEM 9 SLICER **ONE REQUIRED**

BERKEL MODEL NO. B25E-10" PACKED: EA.
HEAVY DUTY COMPACT MANUAL SLICER, 10" DIAMETER KNIFE, TOP MOUNTED SHARPENER, STAINLESS STEEL FOOD CONTACT AREAS, AND ANODIZED ALUMINUM BASE, GEAR DRIVEN, PERMANENTLY ATTACHED KNIFE RING GUARD, KNIFE COVER INTERLOCK, 1/4 HP, ETL, NSF, 115v/60/1, 2.5 AMPS

1 YEAR PARTS (EXCLUDES WEAR/EXPENDABLE PARTS), 1 YEAR LABOR WARRANTY

ITEM 10 **HAND SINK W/ SOAP & PAPER TOWEL DISPENSER TWO REQUIRED**

ADVANCE TABCO MODEL NO. 7-PS-87 PACKED: EA.
HAND SINK, WALL MODEL, 14" WIDE x 10" FRONT-TO-BACK x 5" DEEP BOWL, 20 GA. STAINLESS STEEL CONSTRUCTION WITH SIDE SPLASH, SPLASH MOUNTED FAUCET, LEVER DRAIN, W/OVERFLOW, P-TRAP, SOAP AND TOWEL DISPENSER, WALL BRACKET, NSF, AND CSA LISTED

ITEM 11 **WIRE SHELVING, 72" MAX. HEIGHT ONE LOT (VERIFY)**

METROMAX PLASTIC SHELVING, TOP TRACK SYSTEM PLUS FREESTANDING UNITS AS REQUIRED FOR WALK-IN BOXES. ANCHOR TOP SHELF/FRAME TO WALL PER DETAIL 12/K1.07

ITEM 12 **MIXER, 30 QUART ONE REQUIRED**

HOBART LEGACY MODEL NO. HL300 PACKED: EA.
ALL PURPOSE MIXER, 30 qt., FLOOR MODEL, 3-SPEED, #12 HUB, S/S SAFETY GUARD, BOWL, 15 MIN. SMART TIMER, DOUGH HOOK, WHIP & BEATER, RIGID CAST IRON BODY, SAFETY INTERLOCKED BOWL GUARD & BOWL LIFT, HIGH TORQUE TRANSMISSION, NSF, ETL, 3/4 HP, 6 ft CORD & PLUG. NSF AND UL LISTED

1 YEAR PARTS (EXCLUDES WEAR/EXPENDABLE PARTS), 1 YEAR LABOR WARRANTY

100-120/50/60/1-ph, 9.5 amps - UL LISTED

ITEM 13 **HOT FOOD SERVING COUNTER TWO REQUIRED**

PART OF CUSTOM FAB SS SERVING LINE, ITEM #18 RFI#84 Provide flat S.S. counter

SPACE ON STAINLESS STEEL COUNTER FOR THREE HOT FOOD PANS

ITEM 14 **COLD PAN SERVING COUNTER TWO REQUIRED**

PART OF CUSTOM FAB SS SERVING LINE, ITEM #18 RFI#

SPACE ON STAINLESS STEEL COUNTER FOR TWO COLD FOOD PANS

ITEM 15 **REACH-IN FRIDGE TWO REQUIRED**

TO BE SELECTED BY OWNER

ITEM 16 **MILK COOLER FOUR REQUIRED**

BEVERAGE AIR MODEL NO. SM49N-S PACKED: EA.
SCHOOL MILK COOLER, NORMAL TEMPERATURE, 49-1/2"W, 31"D, 20.0 cu. Ft., SINGLE ACCESS, FLAT TOP CARTON CAPACITIES, (12) 13" x 13" x 11" OR (8) 19" x 13" x 11" CASE CAPACITY, STAINLESS STEEL INTERIOR & EXTERIOR, ¼ hp, UL, cUL, UL-EPH, NSF, ENERGY STAR®, MADE IN USA

LIMITED WARRANTY, 3 YEARS PARTS AND LABOR
ADDITIONAL 2 YEAR COMPRESSOR WARRANTY, STANDARD
115v/60/1-ph, 7.5 amps, STANDARD
4" HEAVY DUTY CASTERS, (2) WITH BRAKES, STANDARD

ITEM 17 **MICROWAVE SHELF ONE REQUIRED**

ADVANCE TABCO MODEL NO. MS-18-24 PACKED: EA.
MICROWAVE SHELF, WALL-MOUNTED, STAINLESS STEEL, 18" WIDE, 2 FEET LONG

ITEM 18 **CUSTOM FAB. SS SERVING LINE TWO REQUIRED**

15' LONG S.S. MOBILE COUNTER W/ TRAY & UTENSIL SPACE, A RECESSED INTEGRAL COLD WELL W/ DRAIN, SPACE FOR COLD AND HOT FOOD PANS, CASH REGISTER SPACE, 10" FLAT TRAY SLIDE & TEMPERED GLASS SNEEZE GUARD. OWNER'S CONTRACTOR TO PROVIDE SHOP DWGS FOR APPROVAL.

ITEM 19 **DRY STORAGE SHELVING, 72" MAX. HEIGHT AS SHOWN ON DRAWINGS**

METRO MODEL NO. MQ1824G PACKED: LT
METROMAX Q™ SHELVING UNITS
ANCHOR TOP SHELF/FRAME TO WALL PER DETAIL 12/K1.07

ITEM 20 **3 TUB SINK W/DRAINBOARDS ONE REQUIRED**

R & J FABRICATORS MODEL NO. RJ-P-3-2424-24D

ITEM 21 **2 TUB SINK W/DRAINBOARDS ONE REQUIRED**

R & J FABRICATORS MODEL NO. RJ-P-2-2424-24D

ITEM 22 **WALL SHELVES (10FT AND 8 FT) ONE LOT**

R & J FABRICATORS MODEL NO. RJ-WS
WALL MOUNTED SHELVING, 18 GAUGE STAINLESS STEEL, ALL WELDED CONSTRUCTION, CORNERS GROUND SMOOTH AND POLISHED, NO. OF BRACKETS TO ADDEQUATELY SUPPORT SHELF LENGTH

ITEM 23 **MOP SINK ONE REQUIRED**

SEE PLUMBING DRAWINGS

ITEM 24 **SS WORK TABLE, 10ft, 2 DRAWER, ONE TABLE W/DOUBLE OVERSHELF TWO REQUIRED**

R & J FABRICATORS MODEL NO, RJ-P-TUS-2410 WITH OVERSHELF MODEL NO. RJ-DO-12-10 AND TWO DRAWERS. PROVIDE OTHER WORKTABLES AS INDICATED ON DRAWINGS

ITEM 25 **NOT USED**

ITEM 26 **EXHAUST VENTILATOR ONE REQUIRED**

CAPTIVEAIRE MODEL, SEE MECHANICAL PLANS FOR TYPE

ITEM 27 **ICE MACHINE W/ STORAGE BIN ONE REQUIRED**

ICE-O-MATIC MODEL NO. ICE0805HA PACKED: EA.
ICE SERIES™ MODULAR CUBE ICE MAKER, AIR COOLED, APPROXIMATELY 892 Lb/405 kg PRODUCTION/24 HOURS, HALF-SIZE CUBE, FILTER-FREE AIR, PURE ICE BUILT IN ANTIMICROBIAL PROTECTION, HARVEST ASSIST PRODUCES ICE CONSISTENTLY/REDUCES OPERATING COST, 230v/50/1-ph, 11.7 amps

3 YEAR PARTS & LABOR WARRANTY, STANDARD
5 YEAR EVAPORATOR WARRANTY, STANDARD
5 YEAR PARTS ON THE COMPRESSOR WARRANTY, STANDARD

B55PS ICE BIN, 510 lb STORAGE CAPACITY, W/TOP-HINGED FRONT OPENING DOOR, FOR TOP-MOUNTED ICE MAKER, STAINLESS STEEL EXTERIOR, MOLDED PLASTIC DOOR

ITEM 28 **NOT USED**

ITEM 29 **PRE-RINSE ONE REQUIRED**

FISHER MODEL NO. 2210-WB
TWO (2) MODEL NO. 2400-2013 WALL ELBOWS

½" CW & HW

ITEM 30 **FLOOR TROUGH ONE EACH**

(2) 10'-0"L TROUGH W/ S.S. GRATE FT-12120-SG BUTTED TOGETHER TO FORM THE OVERALL 20'-0" LENGTH. SEE PLUMBING DRAWINGS

ITEM 31 **A:B:C EXTINGUISHER THREE REQUIRED**

SEE SPECIFICATION SECTION 10520 FIRE EXTINGUISHERS AND CABINETS

ITEM 32 **SLICER STAND ONE REQUIRED**

PIPER SUPPORT EQUIPMENT MODEL NO. 331-3424

ITEM 33 **POT AND PAN SHELVING ONE LOT**

INTERMETRO, METROMAX SERIES CONSISTING OF THE FOLLOWING:

A. MODEL NO. 2448GX2 SHELVES
B. MODEL NO. 74PX UPRIGHTS WITH CASTERS

VERIFY REQUIREMENTS WITH DRAWINGS
ANCHOR TOP SHELF/FRAME TO WALL PER DETAIL 12/K1.07

ITEM 34/35 **WALK-IN COOLER/REEZER ONE REQUIRED**

IMPERIAL MANUFACTURING, 15'-9" x 19'-5" x 8'-0" RECTANGULAR INDOOR FREEZER/COOLER COMBO
- 15'-1" ID x 8'-5" ID x 7'-2" ID FREEZER (WITH FLOOR)
- 15'-1" ID x 10'-0" ID x 7'-8" ID COOLER (NO FLOOR) (NSF APPROVED)
- 36" x 78" FLUSH MODEL G3 SELF-CLOSING DOORS
- 4" HIGH DENSITY URETHANE NSF WALL PANELS
- 4" HIGH DENSITY URETHANE NSF CEILING PANELS
- 4" HIGH DENSITY URETHANE FLOOR PANELS MODEL 500N
- 4 EA. VAPOR PROOF LIGHT FIXTURES CFL
- 2 EA. TOGGLE SWITCH W/PILOT LIGHT
- 2 EA. ANALOG 2" FLUSH MOUNT DIAL THERMOMETER 2/12" CAPILLARY
- 1 EA. KASON 1832 HEATED AIR VENT (115v)
- 1 SET 26 GA. STUCCO GALVANIZED CEILING CLOSURE W/BRACES
- 2 EA. VERTICAL CLOSURE
- 1 EA. 24" RAMP

ITEM 36 **FIRE SUPRESSION SYSTEM ONE LOT**

SEE MECHANICAL DRAWINGS

ITEM 37 **K TYPE EXTINGUISHER TWO REQUIRED**

SEE SPECIFICATION SECTION 10520 FIRE EXTINGUISHERS AND CABINETS

ITEM 38 **CORNER GUARDS FIVE REQUIRED**

SEE SPECIFICAITON SECTION 10265 CORNER GUARD PROTECTION

ITEM 39 **HAND SINK TWO REQUIRED**

SEE PLUMBING DRAWINGS

ITEM 40 **HAND SOAP DISPENSER TWO REQUIRED**

SEE SPECIFICAITON SECTION 10800 TOILET ACCESSORIES

ITEM 41 **PAPER TOWEL DISPENSER TWO REQUIRED**

SEE SPECIFICAITON SECTION 10800 TOILET ACCESSORIES

ITEM 42 **MOP RACK ONE REQUIRED**

BOBRICK MODEL NO. B-223x24 STAINLESS STEEL MOP & BROOM HOLDER

ITEM 43 **INSULATED WALL FLASHING ONE LOT**

CUSTOM FABRICATED AND INSTALLED AS SPECIFIED AND AS SHOWN ON DRAWINGS AND SHALL INCLUDE THE FOLLOWING: 3" THICK CONSTRUCTED OF #20 GAUGE STAINLESS STEEL FACING WITH #14 GAUGE "Z" CHANNELS AND INSULATED WITH 1" FIRE RETARDENT INSULATION.

ITEM 44 **SERVICE FAUCET ONE REQUIRED**

SEE PLUMBING DRAWINGS

ITEM 45 **EMPLOYEE LOCKERS FIVE REQUIRED**

SEE SPECIFICATION SECTION 10500 METAL LOCKERS. PROVIDE TOP SHELF AND POLE FOR HANGING COATS.

ITEM 46 **SOILED DISHTABLE ONE REQUIRED**

CUSTOM FABRICATED S.S. INSTALLED AS SPECIFIED AND AS SHOWN ON THE DRAWINGS. INTEGRAL WITH DISHWASHER

ITEM 47 **DISPOSER, SCRAPING SYSTEM ONE REQUIRED**

SALVAJOR, MODEL NO. 300-CA-18-ARSS, WITH CONTROL LINE DISCONNECT, STAINLESS STEEL CONTROL PANEL BRACKET AND FISHER #3900 VACUUM BREAKER. INSTALL IN SOILED DISHTABLE (ITEM 46)

POWER: 208v/60/3, 14.8 AMPS

ITEM 48 **CLEAN TABLE ONE REQUIRED**

CUSTOM FABRICATED S.S. INSTALLED AS SPECIFIED AND AS SHOWN ON THE DRAWINGS. INTEGRAL WITH DISHWASHER

ITEM 49 **ROLL-UP DOOR ONE REQUIRED**

NOT A PART OF THE WORK IN THIS SECTION, SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR

ITEM 50 **RACK SHELF ONE REQUIRED**

CUSTOM FABRICATED AND INSTALLED AS SPECIFIED AND AS SHOWN ON THE DRAWINGS

ITEM 51 **FILL FAUCET TWO REQUIRED**

FISHER MODEL #2240

½" CW AND HW

ITEM 52 **CASH REGISTER TWO REQUIRED**

TO BE FURNISHED BY OWNER

ITEM 53 **REFRIGERATION ONE REQUIRED**

SYSTEM #1 - OUTDOOR R404a SPLIT SYSTEM W/MOUNTED PARTS (-10°F HOLDING TEMP.)

1 YEAR REFRIGERATION SYSTEM LABOR WARRANTY (SYSTEM #1)

(1) HEATCRAFT AIR COOLED CONDENSING UNIT #MOH031L63CFT (-10°F)
208-230v/3ph/60HZ/3hp HERMETIC COMPRESSOR
MCA = 29, MOPD = 30
37.75 x 28.25D x 19.75H x 260lbs

(1) CLIMATE CONTROL LOW PROFILE EVAPORATOR MODEL #LSF120BMC6K-EC (-10°F)
W/EC MOTORS (1.44A) & ELECTRIC DEFROST (11.7A)
W/MOUNTED THERMOSTATE, SOLENOID VALVE & TXV
208-230v/1ph/60Hz
61.5W x 14.84D x 14.94H x 85lbs

4 YEAR EXTENDED COMPRESSOR WARRANTY (SYSTEM #1)

COOLER - OUTDOOR R404a SPLIT SYSTEM W/MOUNTED PARTS (35°F HOLDING TEMP)
1 YEAR REFRIGERATION SYSTEM LABOR WARRANTY (COOLER)
(1) HEATCRAFT AIR COOLED CONDENSING UNIT #MOH015X63CFMT-E (35°F)
208-230v/3ph/60HZ/1.5hp HERMETIC COMPRESSOR
MCA = 20, MOPD = 20
37.75 x 28.25D x 17.25H x 230lbs

(1) CLIMATE CONTROL LOW PROFILE EVAPORATOR MODEL #LSC120AMC6K-EC (35°F)
W/EC MOTORS (1.82A) & AIR DEFROST
W/MOUNTED THERMOSTATE, SOLENOID VALVE & TXV
115v/1ph/60Hz
45.5W x 14.84D x 14.94H x 71lbs

4 YEAR EXTENDED COMPRESSOR WARRANTY (COOLER)

ITEM 54 **TRAY / UTENSIL AREA TWO REQUIRED**

PART OF CUSTOM FAB (ITEM 18)

ITEM 55 **REFRIGERATOR ONE REQUIRED**

TO BE FURNISHED BY OWNER

ITEM 56 **COLD PAN SERVING COUNTER ONE REQUIRED**

PART OF CUSTOM FAB SS SERVING LINE, ITEM #18

VOLLRATH MODEL NO. 38015 PACKED: EA.
ServeWell® COLD FOOD TABLE, 5 PAN, NON-REFRIG., S/S-300 SERIES, S/S ICE WELL HOLDS STD. 12" x 20" PANS TO 6" DEEP, EQUIPPED WITH DRAIN

● Furnished by Contractor
● Furnished by District

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Sheet Title:
EQUIPMENT SCHEDULE

Issue Date: 01-31-18
Date: 05/31/18
Designer: --
DR: --
PC: FC INITIALS

Project Name & Address:
NEW ELEMENTARY SCHOOL INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Agency Approval Stamp:

FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC M FLS SFH SS KU
DATE 06-22-18
TRACKING #: 63321-300

Stamp(s):

CURTIS E. FLYNN
No. C 28966
REN. 5-31-19

Job No.: 5262

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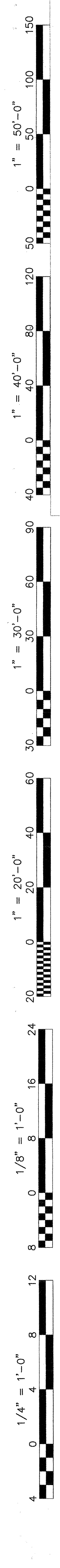
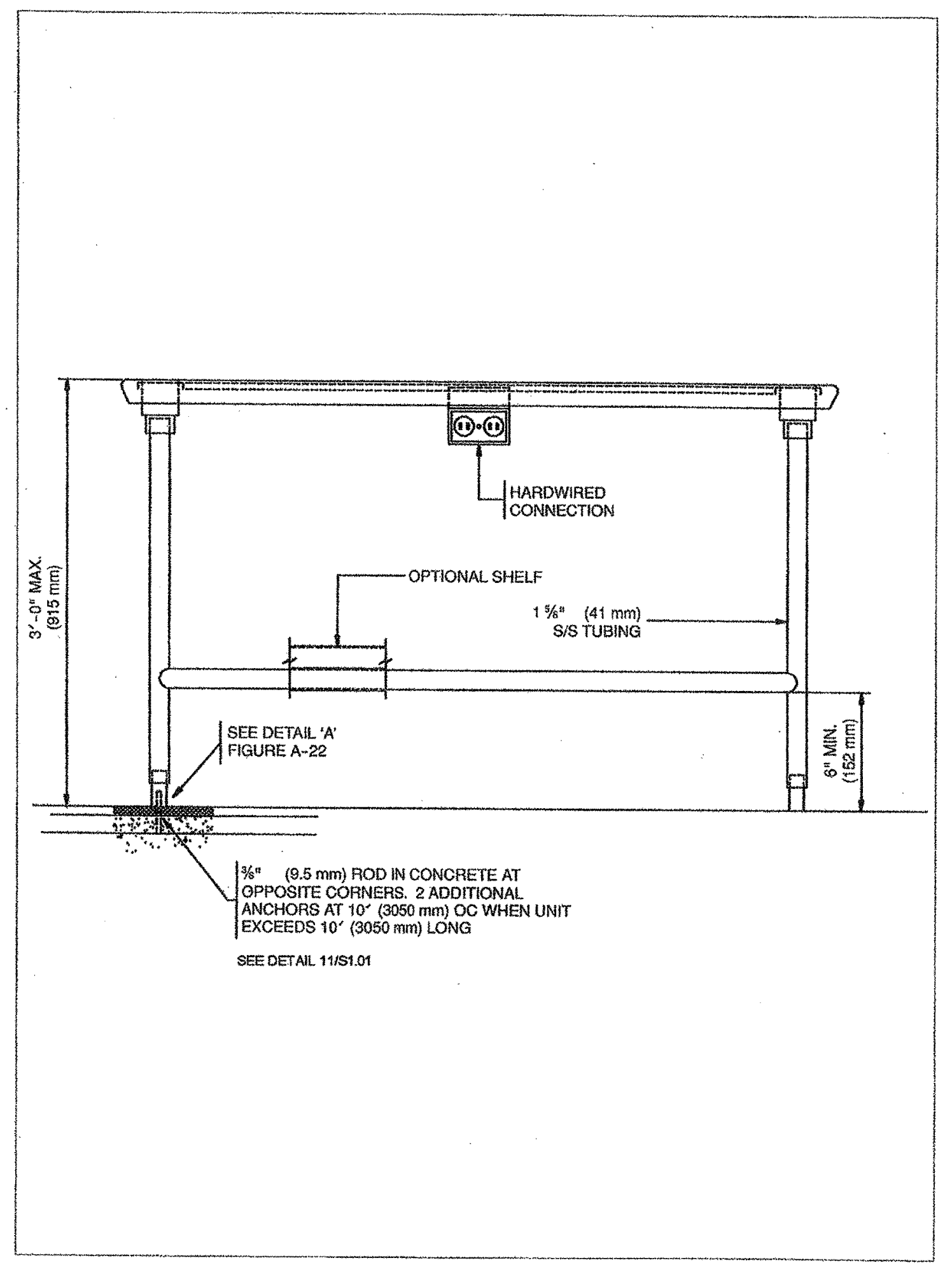
Release: -

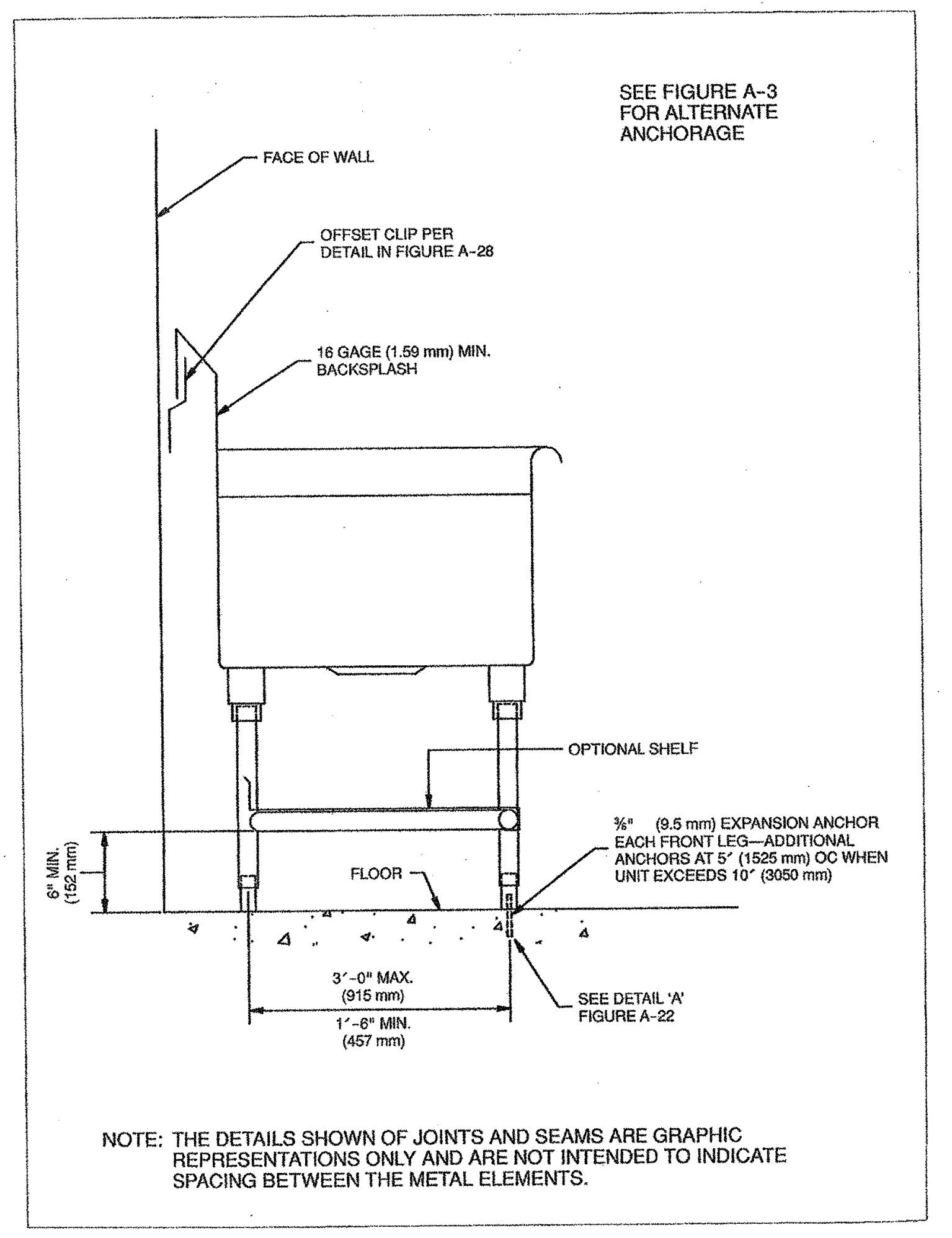


1" = 50'-0"
150
100
50
0
50
120
80
1" = 40'-0"
40
0
40
90
60
1" = 30'-0"
30
0
30
60
40
1" = 20'-0"
20
0
20
24
16
1/8" = 1'-0"
8
0
8
12
8
1/4" = 1'-0"
4
0
4



HARDWIRED CONNECTION
OPTIONAL SHELF
1 ⅝" (41 mm) S/S TUBING
3'-0" MAX. (915 mm)
6" MIN. (152 mm)
SEE DETAIL 'A' FIGURE A-22
⅜" (9.5 mm) ROD IN CONCRETE AT OPPOSITE CORNERS. 2 ADDITIONAL ANCHORS AT 10' (3050 mm) OC WHEN UNIT EXCEEDS 10' (3050 mm) LONG
SEE DETAIL 11/S1.01

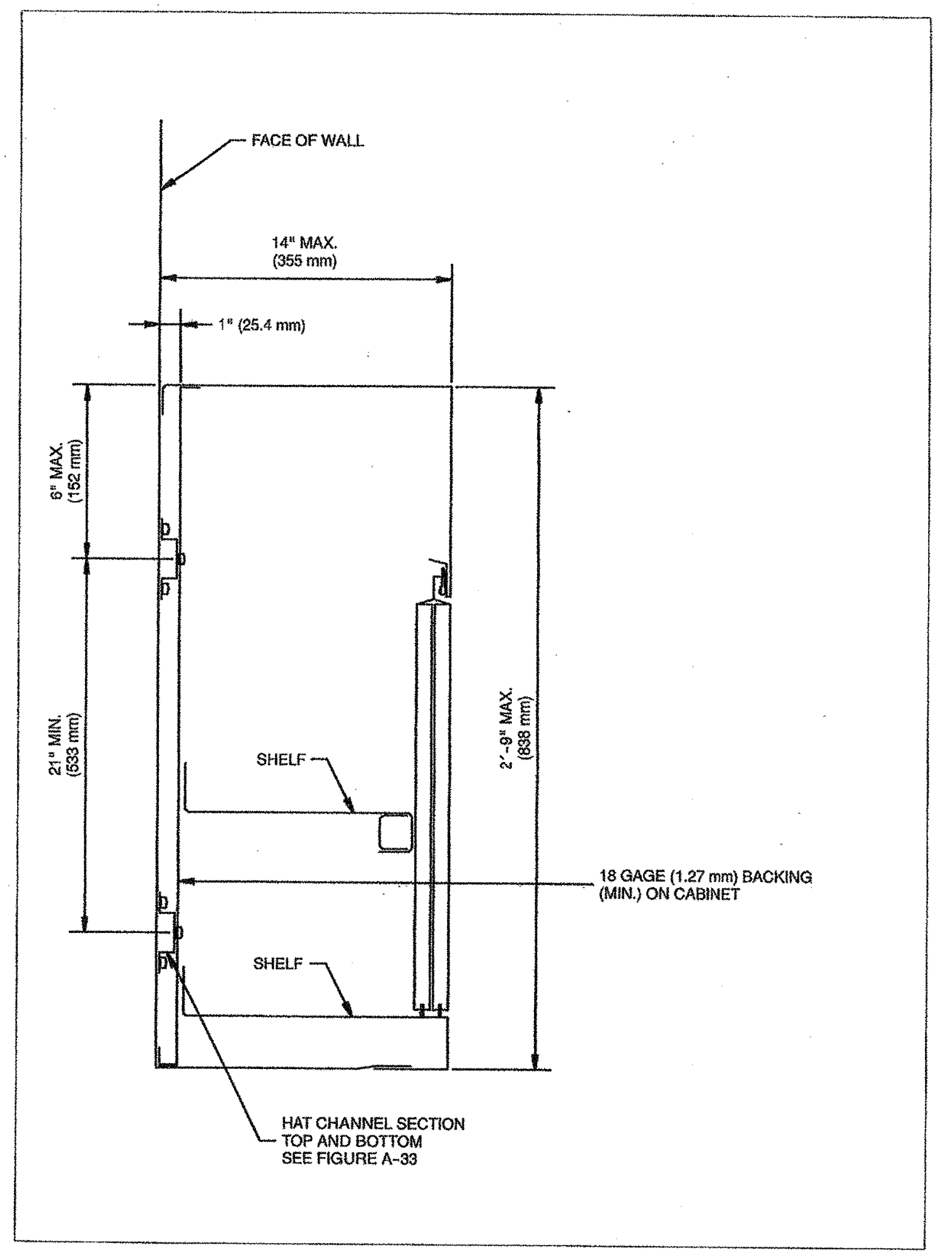
FIGURE A-1 FREE STANDING TABLE



SEE FIGURE A-3 FOR ALTERNATE ANCHORAGE
FACE OF WALL
OFFSET CLIP PER DETAIL IN FIGURE A-28
16 GAGE (1.59 mm) MIN. BACKSPLASH
OPTIONAL SHELF
⅜" (9.5 mm) EXPANSION ANCHOR EACH FRONT LEG—ADDITIONAL ANCHORS AT 5' (1525 mm) OC WHEN UNIT EXCEEDS 10' (3050 mm)
FLOOR
6" MIN. (152 mm)
3'-0" MAX. (915 mm)
1'-6" MIN. (457 mm)
SEE DETAIL 'A' FIGURE A-22

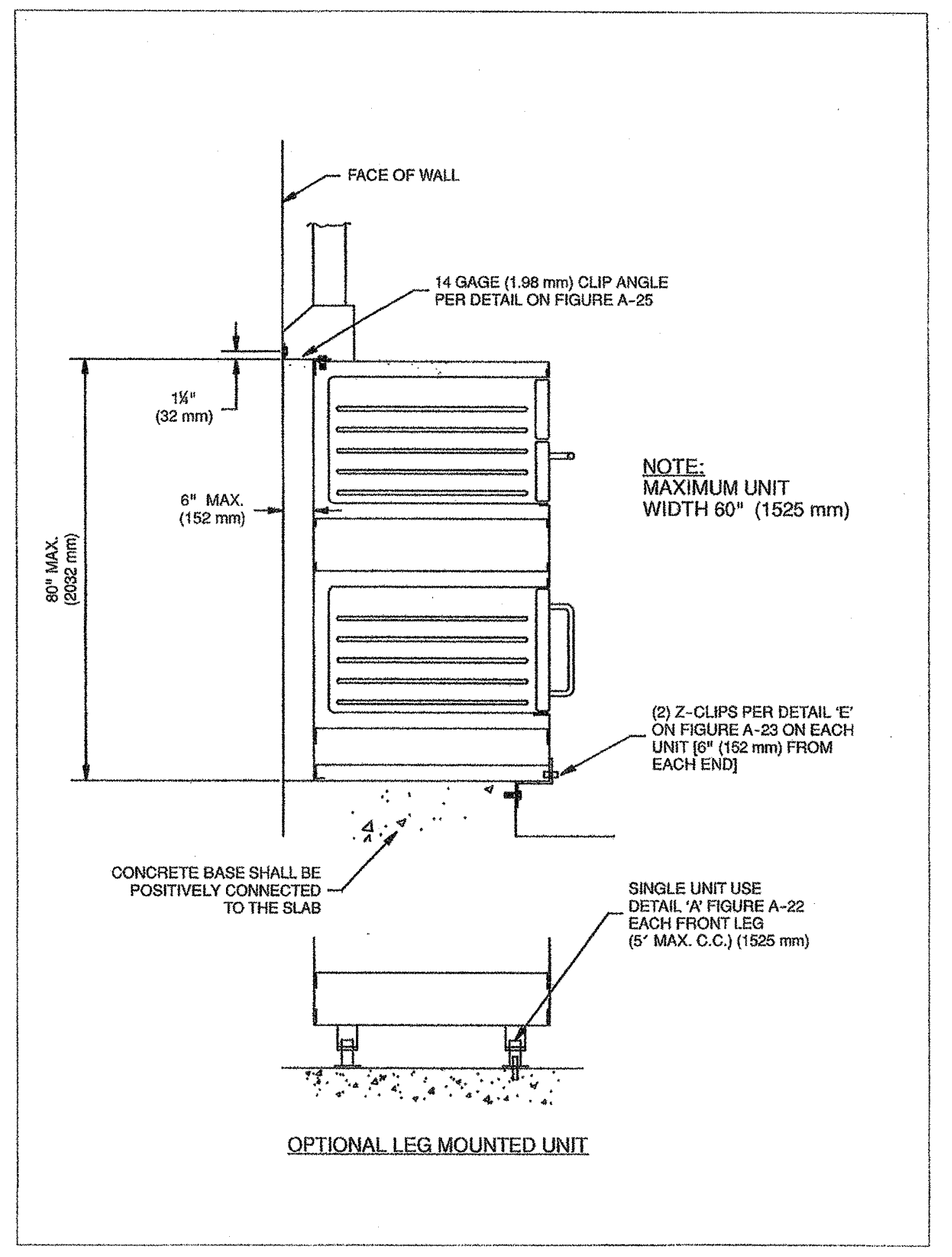
NOTE: THE DETAILS SHOWN OF JOINTS AND SEAMS ARE GRAPHIC REPRESENTATIONS ONLY AND ARE NOT INTENDED TO INDICATE SPACING BETWEEN THE METAL ELEMENTS.

FIGURE A-2 WALL ATTACHED SINK, WORKTABLE WITH WALL CLIP



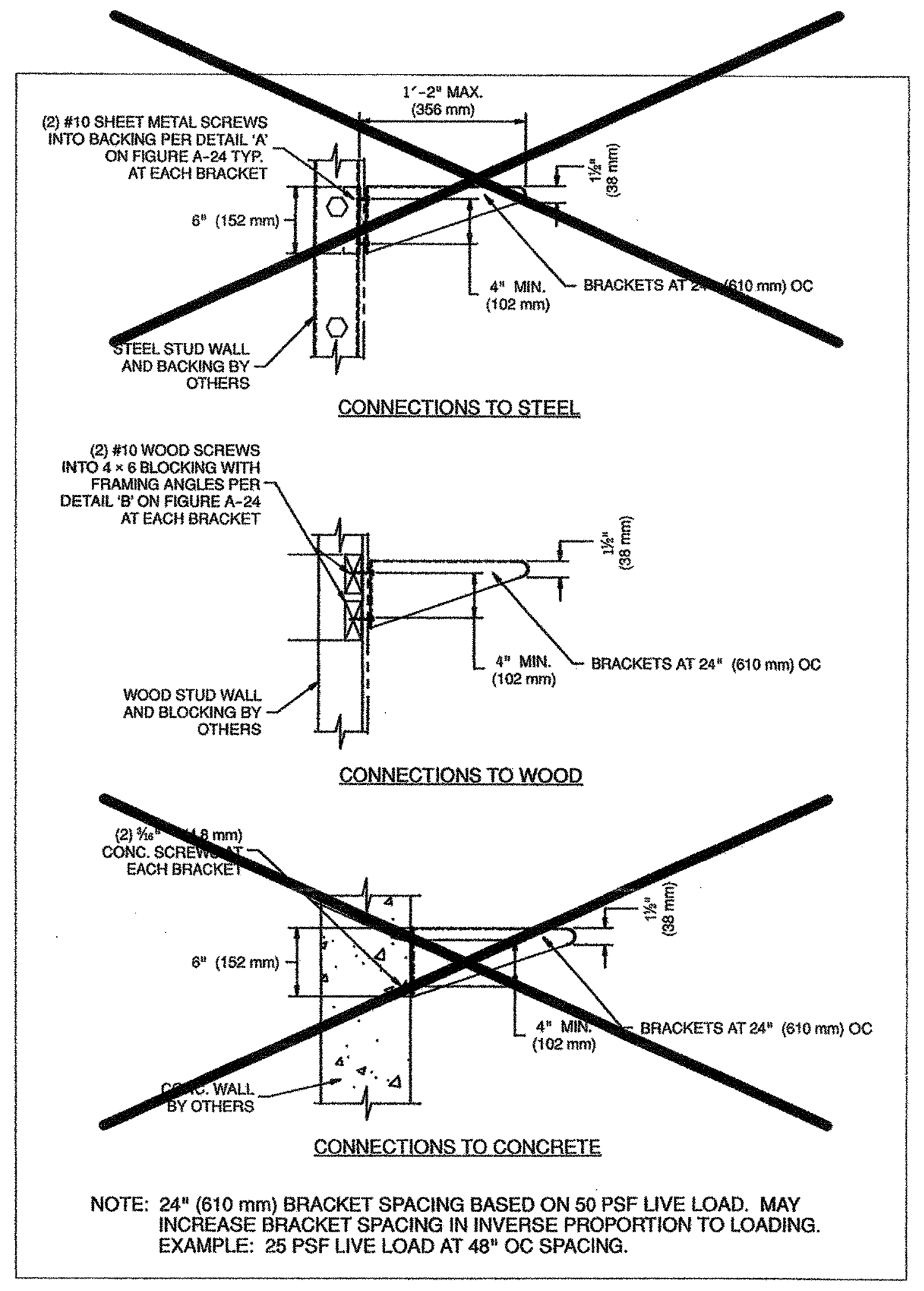
FACE OF WALL
14" MAX. (355 mm)
1" (25.4 mm)
6" MAX. (152 mm)
21" MIN. (533 mm)
2'-9" MAX. (838 mm)
SHELF
18 GAGE (1.27 mm) BACKING (MIN.) ON CABINET
SHELF
HAT CHANNEL SECTION TOP AND BOTTOM SEE FIGURE A-33

FIGURE A-6 WALL CABINET



FACE OF WALL
14 GAGE (1.98 mm) CLIP ANGLE PER DETAIL ON FIGURE A-25
1¼" (32 mm)
6" MAX. (152 mm)
80" MAX. (2032 mm)
NOTE: MAXIMUM UNIT WIDTH 60" (1525 mm)
(2) Z-CLIPS PER DETAIL 'E' ON FIGURE A-23 ON EACH UNIT [6" (152 mm) FROM EACH END]
CONCRETE BASE SHALL BE POSITIVELY CONNECTED TO THE SLAB
SINGLE UNIT USE DETAIL 'A' FIGURE A-22 EACH FRONT LEG (5' MAX. C.C.) (1525 mm)
OPTIONAL LEG MOUNTED UNIT

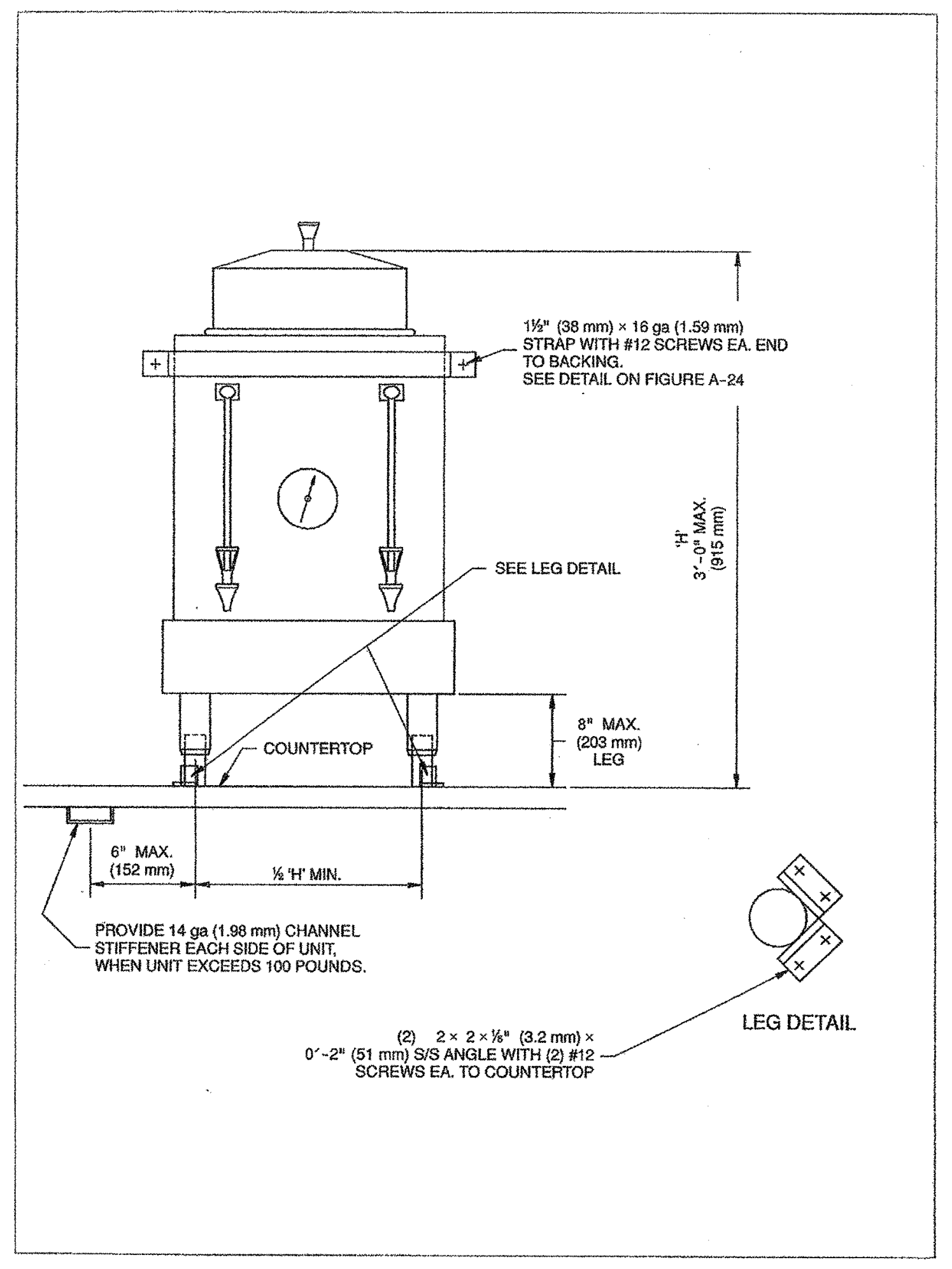
FIGURE A-11 FLOOR MOUNTED APPLIANCE AGAINST WALL



1'-2" MAX. (356 mm)
(2) #10 SHEET METAL SCREWS INTO BACKING PER DETAIL 'A' ON FIGURE A-24 TYP. AT EACH BRACKET
6" (152 mm)
1½" (38 mm)
4" MIN. (102 mm)
BRACKETS AT 24" (610 mm) OC
STEEL STUD WALL AND BACKING BY OTHERS
CONNECTIONS TO STEEL
(2) #10 WOOD SCREWS INTO 4 × 6 BLOCKING WITH FRAMING ANGLES PER DETAIL 'B' ON FIGURE A-24 AT EACH BRACKET
1½" (38 mm)
4" MIN. (102 mm)
BRACKETS AT 24" (610 mm) OC
WOOD STUD WALL AND BLOCKING BY OTHERS
CONNECTIONS TO WOOD
(2) 3⁄16" (4.8 mm) CONC. SCREWS AT EACH BRACKET
6" (152 mm)
1½" (38 mm)
4" MIN. (102 mm)
BRACKETS AT 24" (610 mm) OC
CONC. WALL BY OTHERS
CONNECTIONS TO CONCRETE

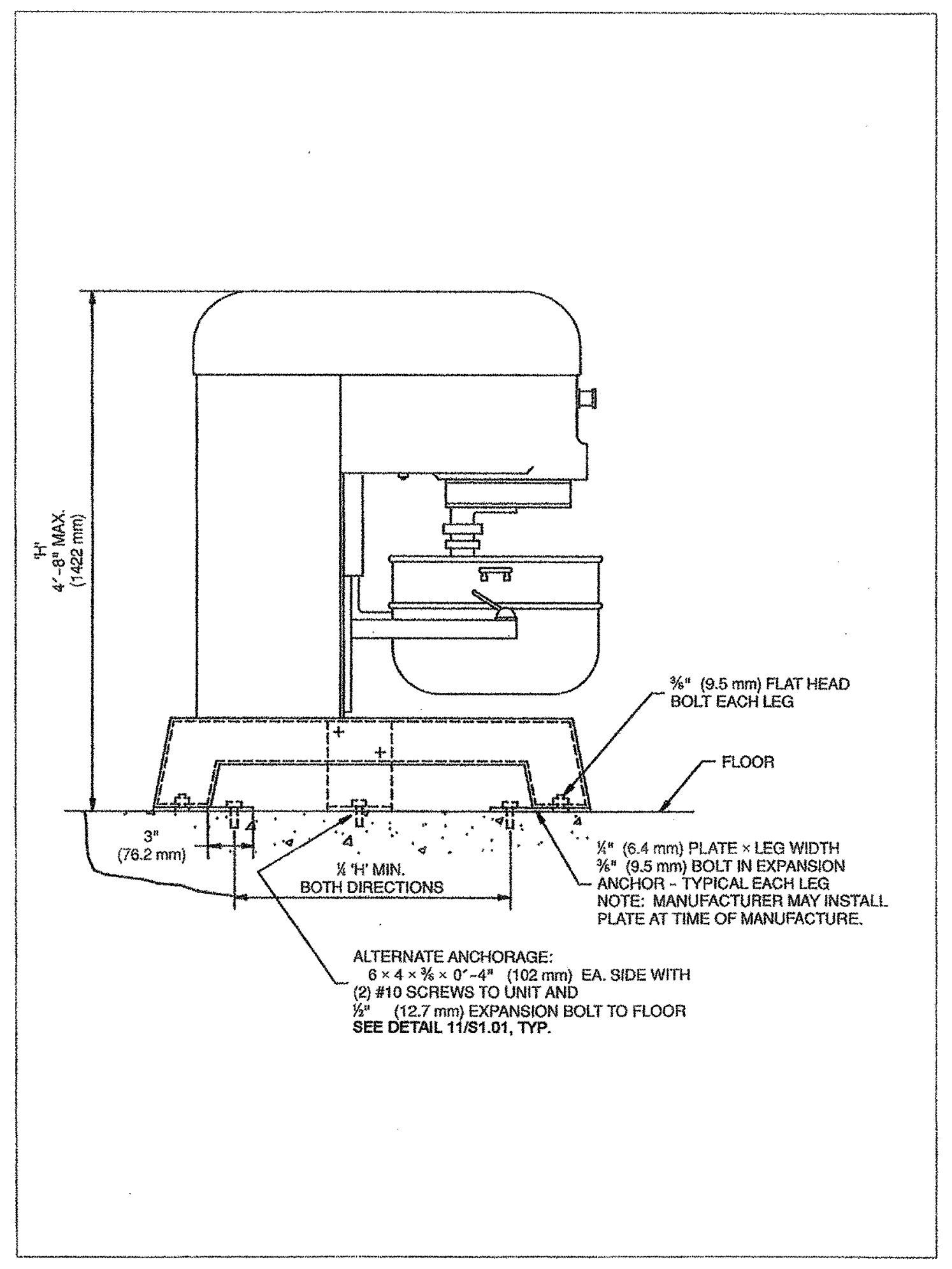
NOTE: 24" (610 mm) BRACKET SPACING BASED ON 50 PSF LIVE LOAD. MAY INCREASE BRACKET SPACING IN INVERSE PROPORTION TO LOADING. EXAMPLE: 25 PSF LIVE LOAD AT 48" OC SPACING.

FIGURE A-17 WALL MOUNTED SHELVES



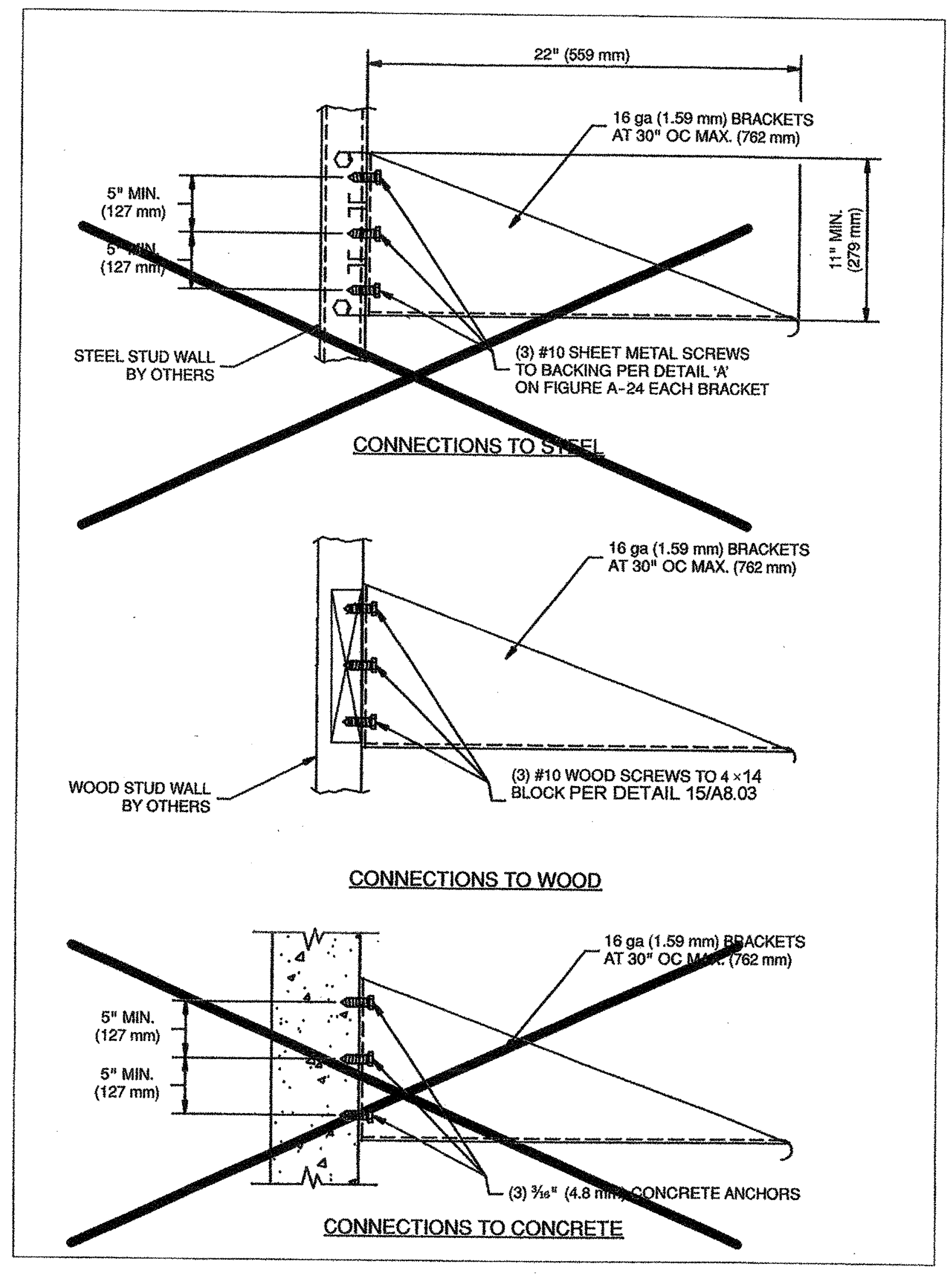
1½" (38 mm) × 16 ga (1.59 mm) STRAP WITH #12 SCREWS EA. END TO BACKING. SEE DETAIL ON FIGURE A-24
SEE LEG DETAIL
'H' 3'-0" MAX. (915 mm)
8" MAX. (203 mm) LEG
COUNTERTOP
6" MAX. (152 mm)
½ 'H' MIN.
PROVIDE 14 ga (1.98 mm) CHANNEL STIFFENER EACH SIDE OF UNIT, WHEN UNIT EXCEEDS 100 POUNDS.
LEG DETAIL
(2) 2 × 2 × ⅛" (3.2 mm) × 0'-2" (51 mm) S/S ANGLE WITH (2) #12 SCREWS EA. TO COUNTERTOP

FIGURE A-18 COUNTERTOP EQUIPMENT



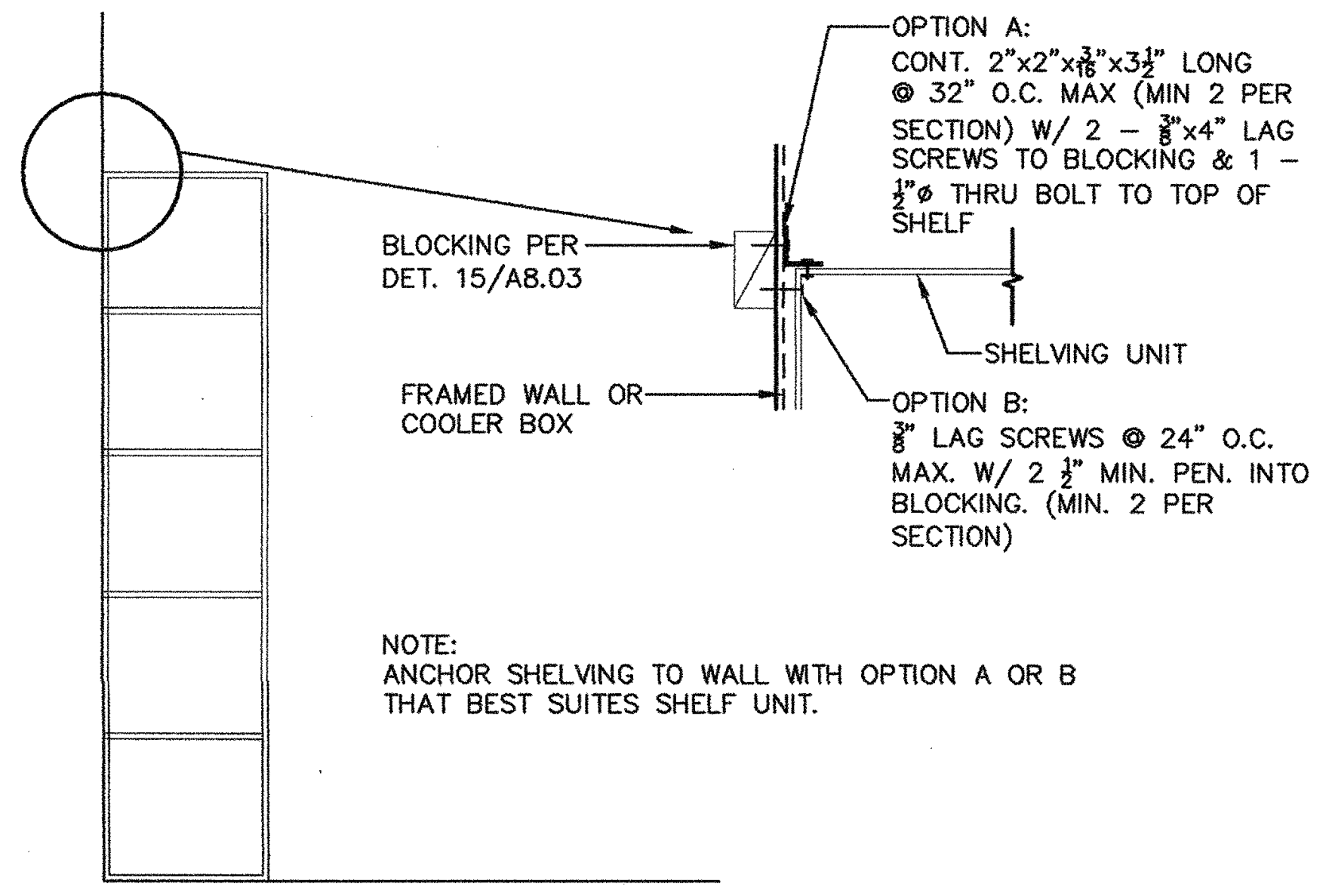
'H' 4'-8" MAX. (1422 mm)
⅜" (9.5 mm) FLAT HEAD BOLT EACH LEG
FLOOR
3" (76.2 mm)
¼ 'H' MIN. BOTH DIRECTIONS
¼" (6.4 mm) PLATE × LEG WIDTH ⅜" (9.5 mm) BOLT IN EXPANSION ANCHOR - TYPICAL EACH LEG NOTE: MANUFACTURER MAY INSTALL PLATE AT TIME OF MANUFACTURE.
ALTERNATE ANCHORAGE: 6 × 4 × ⅜ × 0'-4" (102 mm) EA. SIDE WITH (2) #10 SCREWS TO UNIT AND ½" (12.7 mm) EXPANSION BOLT TO FLOOR SEE DETAIL 11/S1.01, TYP.

FIGURE A-19 FLOOR MOUNTED MIXER



22" (559 mm)
16 ga (1.59 mm) BRACKETS AT 30" OC MAX. (762 mm)
5" MIN. (127 mm)
5" MIN. (127 mm)
11" MIN. (279 mm)
STEEL STUD WALL BY OTHERS
(3) #10 SHEET METAL SCREWS TO BACKING PER DETAIL 'A' ON FIGURE A-24 EACH BRACKET
CONNECTIONS TO STEEL
16 ga (1.59 mm) BRACKETS AT 30" OC MAX. (762 mm)
WOOD STUD WALL BY OTHERS
(3) #10 WOOD SCREWS TO 4 ×14 BLOCK PER DETAIL 15/A8.03
CONNECTIONS TO WOOD
16 ga (1.59 mm) BRACKETS AT 30" OC MAX. (762 mm)
5" MIN. (127 mm)
5" MIN. (127 mm)
(3) 3⁄16" (4.8 mm) CONCRETE ANCHORS
CONNECTIONS TO CONCRETE

FIGURE A-21 MICROWAVE SHELF



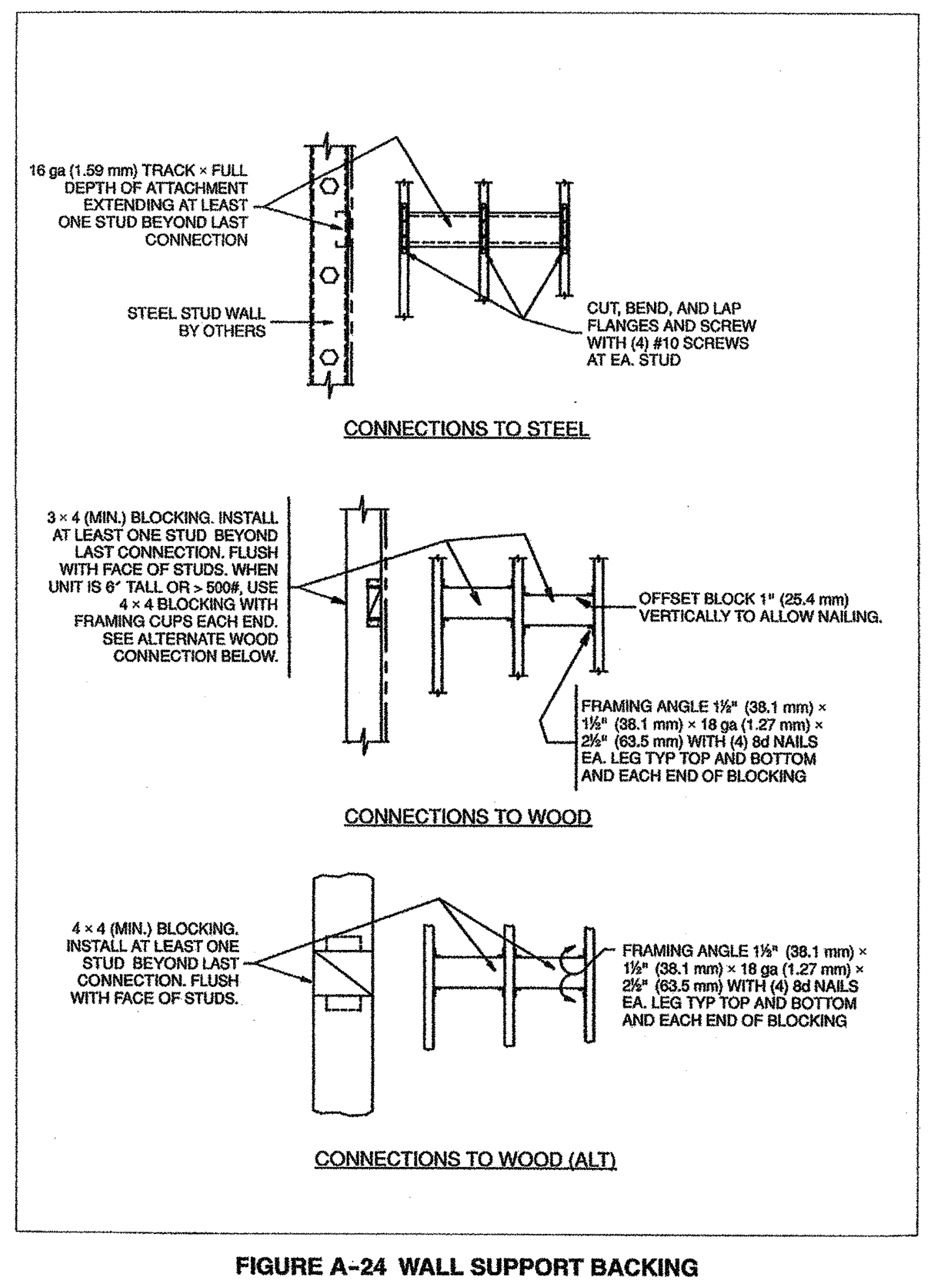
OPTION A:
CONT. 2"x2"x3⁄16"x3½" LONG @ 32" O.C. MAX (MIN 2 PER SECTION) W/ 2 – ⅜"x4" LAG SCREWS TO BLOCKING & 1 – ½"ø THRU BOLT TO TOP OF SHELF
BLOCKING PER DET. 15/A8.03
SHELVING UNIT
FRAMED WALL OR COOLER BOX
OPTION B:
⅜" LAG SCREWS @ 24" O.C. MAX. W/ 2 ½" MIN. PEN. INTO BLOCKING. (MIN. 2 PER SECTION)

NOTE:
ANCHOR SHELVING TO WALL WITH OPTION A OR B THAT BEST SUITES SHELF UNIT.

12 K1.07 SHELVING SUPPORT ANCHORAGE

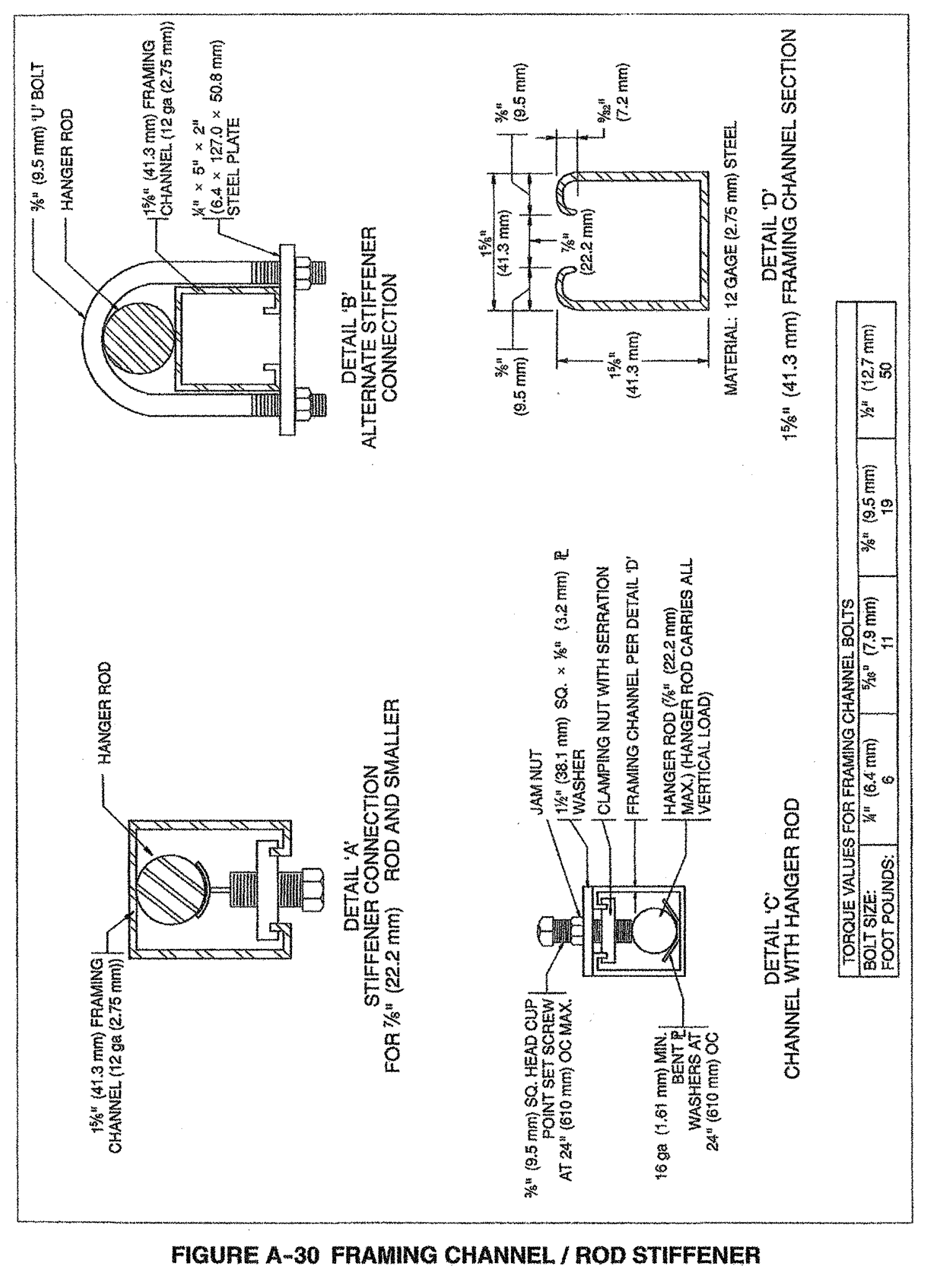
ADI200_17

SCALE: 3/4" = 1'-0"



16 ga (1.59 mm) TRACK × FULL DEPTH OF ATTACHMENT EXTENDING AT LEAST ONE STUD BEYOND LAST CONNECTION
STEEL STUD WALL BY OTHERS
CUT, BEND, AND LAP FLANGES AND SCREW WITH (4) #10 SCREWS AT EA. STUD
CONNECTIONS TO STEEL
3 × 4 (MIN.) BLOCKING. INSTALL AT LEAST ONE STUD BEYOND LAST CONNECTION. FLUSH WITH FACE OF STUDS. WHEN UNIT IS 6' TALL OR > 500#, USE 4 × 4 BLOCKING WITH FRAMING CUPS EACH END. SEE ALTERNATE WOOD CONNECTION BELOW.
OFFSET BLOCK 1" (25.4 mm) VERTICALLY TO ALLOW NAILING.
FRAMING ANGLE 1½" (38.1 mm) × 1½" (38.1 mm) × 18 ga (1.27 mm) × 2½" (63.5 mm) WITH (4) 8d NAILS EA. LEG TYP TOP AND BOTTOM AND EACH END OF BLOCKING
CONNECTIONS TO WOOD
4 × 4 (MIN.) BLOCKING. INSTALL AT LEAST ONE STUD BEYOND LAST CONNECTION. FLUSH WITH FACE OF STUDS.
FRAMING ANGLE 1½" (38.1 mm) × 1½" (38.1 mm) × 18 ga (1.27 mm) × 2½" (63.5 mm) WITH (4) 8d NAILS EA. LEG TYP TOP AND BOTTOM AND EACH END OF BLOCKING
CONNECTIONS TO WOOD (ALT)

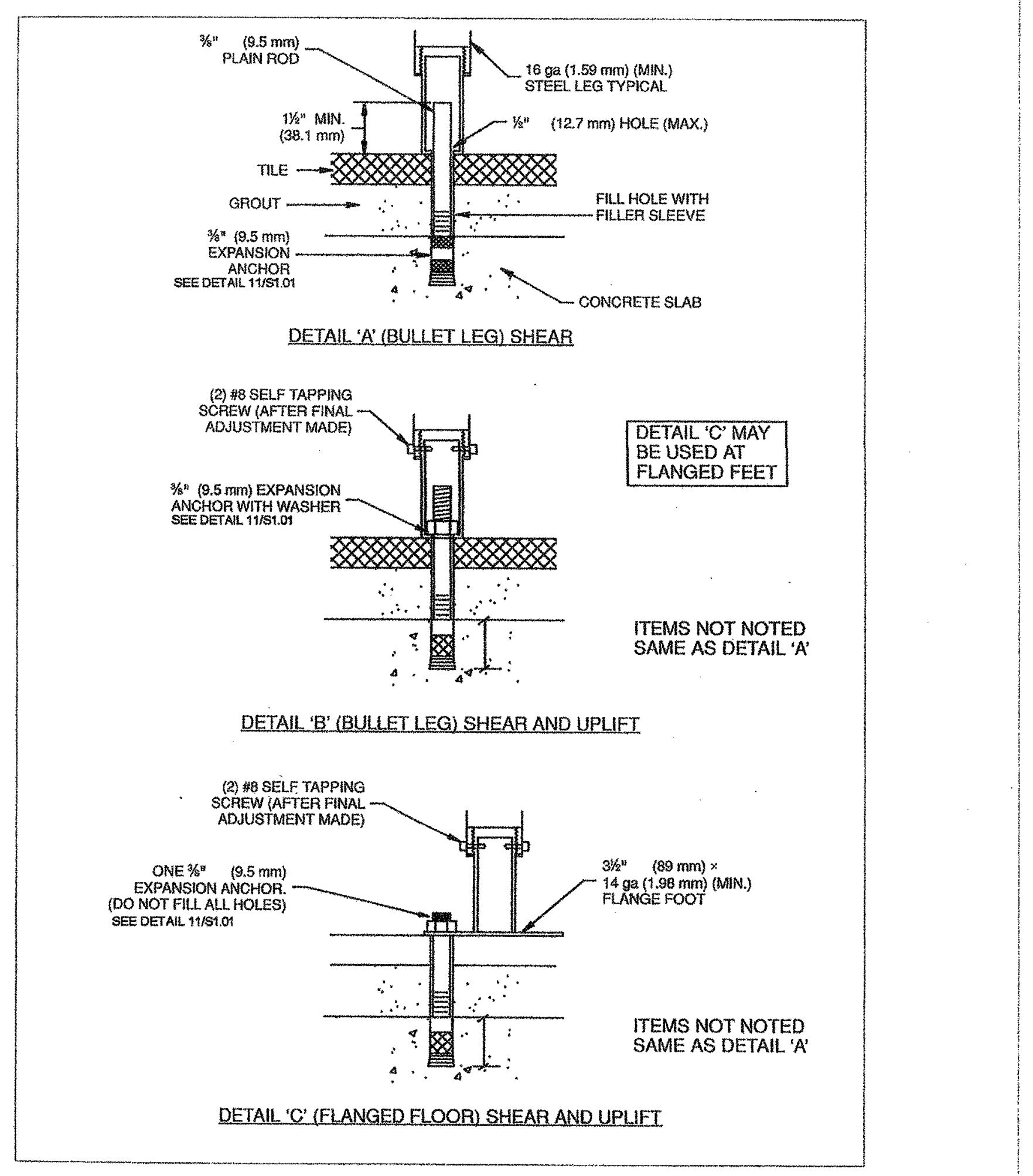
FIGURE A-24 WALL SUPPORT BACKING



⅜" (9.5 mm) 'U' BOLT
HANGER ROD
1⅝" (41.3 mm) FRAMING CHANNEL (12 ga (2.75 mm))
¼" × 5" × 2" (6.4 × 127.0 × 50.8 mm) STEEL PLATE
DETAIL 'B' ALTERNATE STIFFENER CONNECTION
⅜" (9.5 mm)
1⅝" (41.3 mm)
⅞" (22.2 mm)
9⁄32" (7.2 mm)
1⅝" (41.3 mm)
MATERIAL: 12 GAGE (2.75 mm) STEEL
DETAIL 'D' 1⅝" (41.3 mm) FRAMING CHANNEL SECTION
HANGER ROD
1⅝" (41.3 mm) FRAMING CHANNEL (12 ga (2.75 mm))
DETAIL 'A' STIFFENER CONNECTION FOR ⅞" (22.2 mm) ROD AND SMALLER
JAM NUT
1½" (38.1 mm) SQ. × ⅛" (3.2 mm) ℄ WASHER
CLAMPING NUT WITH SERRATION
FRAMING CHANNEL PER DETAIL 'D'
HANGER ROD (⅞" (22.2 mm) MAX.) (HANGER ROD CARRIES ALL VERTICAL LOAD)
⅜" (9.5 mm) SQ. HEAD CUP POINT SET SCREW AT 24" (610 mm) OC MAX.
16 ga (1.61 mm) MIN. BENT ℄ WASHERS AT 24" (610 mm) OC
DETAIL 'C' CHANNEL WITH HANGER ROD

TORQUE VALUES FOR FRAMING CHANNEL BOLTS				
BOLT SIZE:	¼" (6.4 mm)	5⁄16" (7.9 mm)	⅜" (9.5 mm)	½" (12.7 mm)
FOOT POUNDS:	6	11	19	50

FIGURE A-30 FRAMING CHANNEL / ROD STIFFENER



⅜" (9.5 mm) PLAIN ROD
16 ga (1.59 mm) (MIN.) STEEL LEG TYPICAL
1½" MIN. (38.1 mm)
½" (12.7 mm) HOLE (MAX.)
TILE
GROUT
FILL HOLE WITH FILLER SLEEVE
⅜" (9.5 mm) EXPANSION ANCHOR SEE DETAIL 11/S1.01
CONCRETE SLAB
DETAIL 'A' (BULLET LEG) SHEAR
(2) #8 SELF TAPPING SCREW (AFTER FINAL ADJUSTMENT MADE)
DETAIL 'C' MAY BE USED AT FLANGED FEET
⅜" (9.5 mm) EXPANSION ANCHOR WITH WASHER SEE DETAIL 11/S1.01
ITEMS NOT NOTED SAME AS DETAIL 'A'
DETAIL 'B' (BULLET LEG) SHEAR AND UPLIFT
(2) #8 SELF TAPPING SCREW (AFTER FINAL ADJUSTMENT MADE)
ONE ⅜" (9.5 mm) EXPANSION ANCHOR. (DO NOT FILL ALL HOLES) SEE DETAIL 11/S1.01
3½" (89 mm) × 14 ga (1.98 mm) (MIN.) FLANGE FOOT
ITEMS NOT NOTED SAME AS DETAIL 'A'
DETAIL 'C' (FLANGED FLOOR) SHEAR AND UPLIFT

FIGURE A-22 FOOT DETAILS

G:\2017frs\17-5262 BCSD New Elementary\Sheets\New Subset (1)\Architectural\K-100s Kitchen Plans\5262-K1.07 EQUIPMENT DETAILS.dwg

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Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:

Sheet Title:
EQUIPMENT DETAILS

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01–31–18
Date: 05/31/18
Designer: --
DR: --
PC: PC INITIALS

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STATE OF CALIFORNIA

Job No.: **5262**

Sheet No.: **K1.07**

Release: -

RICHARD DELLANINI

1" = 50'-0" 150 100 50 0 50

1" = 40'-0" 120 80 40 0 40

1" = 30'-0" 90 60 30 0 30

1" = 20'-0" 60 40 20 0 20

1/8" = 1'-0" 24 16 8 0 8

1/4" = 1'-0" 12 8 4 0 4

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Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	BLDG A.cibd16x

A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	Bakersfield	8.	Standards Version	Compliance2016
2.	CA Zip Code	93307	9.	Compliance Software (version)	EnergyPro 7.2
3.	Climate Zone	13	10.	Weather File	BAKERSFIELD_723840_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	6,400 ft²	11.	Building Orientation (deg)	(W) 270 deg
5.	Total Unconditioned Floor Area	124 ft²	12.	Permitted Scope of Work	NewEnvelopeAndMechanical
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr) § 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	14.16	24.03	-9.87	-69.7%
Space Cooling	108.87	102.05	6.82	6.3%
Indoor Fans	94.83	16.80	78.03	82.3%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	9.01	5.22	3.79	42.1%
Indoor Lighting	47.92	56.52	-8.60	-17.9%
COMPLIANCE TOTAL	274.79	204.62	70.17	25.5%
Receptacle	93.67	93.67	0.0	0.0%
Process	--	--	--	--
Other Ltg	--	--	--	--
Process Motors	--	--	--	--
TOTAL	368.46	298.29	70.2	19.0%

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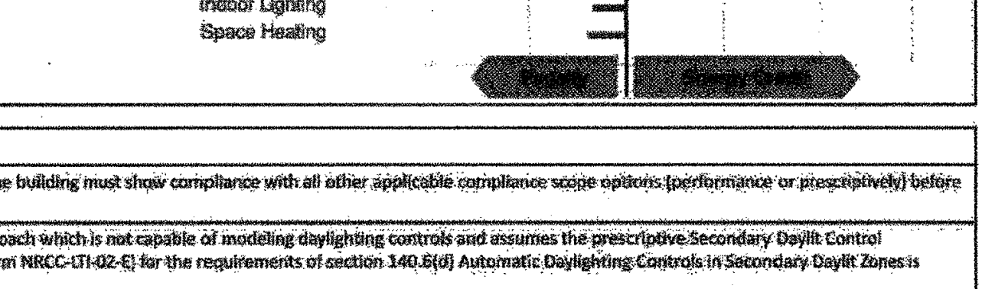
C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical
2nd	Space Cooling: Check envelope and mechanical
3rd	Domestic Hot Water: Check mechanical
4th	Heat Rejection: Check envelope and mechanical
5th	Pumps & Misc.: Check mechanical
6th	Indoor Lighting: Check lighting
7th	Space Heating: Check envelope and mechanical


Compliance Margin By Energy Component (from Table B column 4)

D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path		Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐	NA		
Mechanical	☒	Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐	NA		
Domestic Hot Water	☒	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PLB-01-E	
	☐	NA		
Lighting (Indoor Conditioned)	☐	Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☒	Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐	NA		
Covered Process: Commercial Kitchens	☐	Performance	S2 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 03-E	
	☒	NA		
Covered Process: Computer Rooms	☐	Performance	S3 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 04-E	
	☒	NA		
Covered Process: Laboratory Exhaust	☐	Performance	S4 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 09-E	
	☒	NA		

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.				*The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.*			
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	☐ ☐	☒ ☒	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☐	☒	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	☐ ☐ ☐ ☐ ☐	☒ ☒ ☒ ☒ ☒	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Envelope	☒ NRCI-ENV-01-E - For all buildings	☐	☐
	☒ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☒ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☒ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☐ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☐ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

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Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Covered Process	☐ NRCI-PRC-01-E Covered Processes	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed Pass	Confirmed Fail
1.	Total Conditioned Floor Area	6,400 ft²	5.	Number of Floors Above Grade	1		
2.	Total Unconditioned Floor Area	124 ft²	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft²					
4.	Addition Unconditioned Floor Area	0 ft²					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	1,117 ft²	217 ft²	19.4%	☐	☐
East Wall	1,123 ft²	143 ft²	12.8%	☐	☐
South Wall	1,049 ft²	112 ft²	10.6%	☐	☐
West Wall	1,415 ft²	177 ft²	12.5%	☐	☐
Total	4,703 ft²	649 ft²	13.8%	☐	☐
Roof	6,400 ft²	0 ft²	00.0%	☐	☐

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J. FENESTRATION ASSEMBLY SUMMARY § 110.6

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]	Confirmed Pass	Confirmed Fail
Solarban 60	VerticalFenestration FixedWindow MetalFraming	COG Equations	SiteBuilt	649	0.24 (COG)	0.25 (COG)	0.35 (COG)	N	☐	☐

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.

[2] Status: N - New, A – Altered, E – Existing

Taking compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No

K. OPAQUE SURFACE ASSEMBLY SUMMARY § 120.7/ § 140.3

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Status[1]	Confirmed Pass	Confirmed Fail
Wood Stud Wall w/R-19 (Ty7	ExteriorWall	5059	Wood	19	NA	U-Factor: 0.072	N	☐	☐
Metal Stud Roof w/R-30 (T20	Roof	6524	Metal	30	NA	U-Factor: 0.070	N	☐	☐
Slab On Grade22	UndergroundFloor	6524	NA	0	NA	F-Factor: 0.730	N	☐	☐
R-19 Wall37	InteriorWall	320	Wood	19	NA	U-Factor: 0.069	N	☐	☐

[1] Status: N - New, A – Altered, E – Existing

L. ROOFING PRODUCT SUMMARY § 140.3

1. Product Type	2. Product Density (lb/ft²)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Confirmed Pass	Confirmed Fail
Metal Stud Roof w/R-30 (T20	5.895	0.08	0.75	NA	No	NA	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2

Dry System Equipment[1] (Fan & Economizer info included below in Table N)

1. Equip Name	2. Equip Type	3. System Type (Simple[2] or Complex[3])	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtuh)	8. Total Cooling Output (kBtu/h)	9. Efficiency Cooling	9. Efficiency Heating	10. Acceptance Testing Required? (Y/N)[4]	11. Status[5]	Confirmed Pass	Confirmed Fail
FC-A1 CU	SZHP (Split3Phase)	Simple	1	20	No	0	18	SEER-14.00 / EER-12.20	HSPF-7.70	Yes	N	☐	☐
FC-A2 CU	SZHP (Split3Phase)	Simple	1	17	No	0	15	SEER-14.00 / EER-12.20	HSPF-7.70	Yes	N	☐	☐
FC-A3 CU	SZHP (Split3Phase)	Simple	1	48	Yes	1	42	SEER-14.00 / EER-12.20	HSPF-7.70	Yes	N	☐	☐
FC-A4 CU	SZHP (Split3Phase)	Simple	1	34	Yes	1	30	SEER-14.00 / EER-12.20	HSPF-7.70	Yes	N	☐	☐
FC-A5 CU	SZHP (Split3Phase)	Simple	1	54	Yes	1	48	SEER-14.00 / EER-12.20	HSPF-7.70	Yes	N	☐	☐
FC-A6 CU	SZHP (Split3Phase)	Simple	1	20	No	0	18	SEER-14.00 / EER-12.20	HSPF-7.70	Yes	N	☐	☐
FC-A7 CU	SZHP (Split3Phase)	Simple	1	54	Yes	1	48	SEER-14.00 / EER-12.20	HSPF-7.70	Yes	N	☐	☐
FC-A8 CU	SZHP (Split3Phase)	Simple	1	54	Yes	1	48	SEER-14.00 / EER-12.20	HSPF-7.70	Yes	N	☐	☐
FC-A9 CU	SZHP (Split3Phase)	Simple	1	20	No	0	18	SEER-14.00 / EER-12.20	HSPF-7.70	Yes	N	☐	☐

[1] Dry System Equipment includes furnaces, air handling units, heat pumps, etc.

[2] Simple Systems must complete NRCC-CXR-03-E commissioning design review form

[3] Complex Systems must complete NRCC-CXR-04-E commissioning design review form

[4] A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS

[5] Status: N - New, A – Altered, E – Existing

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Wet System Equipment[1] / *Pumps*

12. Equip Name	13. Equip Type	14. Qty	15. Vol (gal)	16. Rated Capacity (kBtu/h)	17. Efficiency	18. Standby Loss	19. Tank Ext. R Value	20. Qty	21. GPM	22. HP	23. VSD (Y/N)	24. Status[2]	Confirmed Pass	Confirmed Fail
WH-12	Storage	1	130.00	400	Thrml. Eff.: 0.98	SBLF: 0.010	NA		NA		No	N	☐	☐
WH-23	Instantaneous	1	0.10	120	EF: 0.82	SBLF: NA	NA		NA		No	N	☐	☐

[1] Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.

[2] Status: N - New, A – Altered, E – Existing

Discrepancy between modeled and designed equipment sizing? (If "Yes", see Table F. "Additional Remarks" for an explanation)	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] § 140.4

1. Equip Name	2. Outside Air CFM	3. Supply Fan CFM	Supply Fan HP	Supply Fan BHP	Supply Fan TSP (inch WC)	Supply Fan Control	4. Return Fan CFM	Return Fan HP	Return Fan BHP	Return Fan TSP (inch WC)	Return Fan Control	5. Economizer Type (if present)	Confirmed Pass	Confirmed Fail
FC-A1 CU	33	635	0.071	0.071	0.35	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
FC-A2 CU	90	635	0.071	0.071	0.35	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
FC-A3 CU	153	1180	0.116	0.116	0.31	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
FC-A4 CU	129	1000	0.116	0.116	0.37	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
FC-A5 CU	429	1600	0.116	0.116	0.23	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
FC-A6 CU	114	635	0.071	0.071	0.35	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
FC-A7 CU	210	1600	0.116	0.116	0.23	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
FC-A8 CU	204	1600	0.116	0.116	0.23	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
FC-A9 CU	169	635	0.071	0.071	0.35	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐

[1] Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

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O. EQUIPMENT CONTROLS § 120.2

1. Equip Name	2. Equip Type	3. Controls	Confirmed Pass	Confirmed Fail
FC-A1 CU	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
FC-A2 CU	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
FC-A3 CU	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
FC-A4 CU	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
FC-A5 CU	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
FC-A6 CU	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐

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O. EQUIPMENT CONTROLS § 120.2

1. Equip Name	2. Equip Type	3. Controls	Confirmed Pass	Confirmed Fail
FC-A7 CU	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
FC-A8 CU	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
FC-A9 CU	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
BCSD Elementary School Bu1 - SHW	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC No Heat Recovery	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(l)

Dry System Distribution

1. Equip Name	2. Equip Type	3. Duct Leakage and Sealing Required per 140.4(l)	4. Duct Leakage will be verified per NA1 and NA2	5. Ducts Insulation R-Value	5. Ducts Location	6. Status[1]	Confirmed Pass	Confirmed Fail
FC-A1 CU	SZHP	No	No	8	Unconditioned	N	☐	☐
FC-A2 CU	SZHP	No	No	8	Unconditioned	N	☐	☐
FC-A3 CU	SZHP	No	No	8	Unconditioned	N	☐	☐
FC-A4 CU	SZHP	No	No	8	Unconditioned	N	☐	☐
FC-A5 CU	SZHP	No	No	8	Unconditioned	N	☐	☐

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P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(l)

Dry System Distribution

1. Equip Name	2. Equip Type	3. Duct Leakage and Sealing Required per 140.4(l)	4. Duct Leakage will be verified per NA1 and NA2	5. Ducts Insulation R-Value	5. Ducts Location	6. Status[1]	Confirmed Pass	Confirmed Fail
FC-A6 CU	SZHP	No	No	8	Unconditioned	N	☐	☐
FC-A7 CU	SZHP	No	No	8	Unconditioned	N	☐	☐
FC-A8 CU	SZHP	No	No	8	Unconditioned	N	☐	☐
FC-A9 CU	SZHP	No	No	8	Unconditioned	N	☐	☐

[1] Status: N - New, E – Existing

Does the Project Include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)

This Section Does Not Apply

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[1] § 130.0

This Section Does Not Apply

[1] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES § 140.9

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS § 140.9

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS § 140.9

This Section Does Not Apply

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S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS § 140.9

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	8.8	--	53.7	--	--
Space Cooling	18.1	16.6	1.5	--	--	--
Indoor Fans	27.3	4.9	22.4	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	40.3	23.4	16.9
Indoor Lighting	12.5	14.7	-2.2	--	--	--
COMPLIANCE TOTAL	57.9	45.0	12.9	94.0	23.4	70.6
Receptacle	23.9	23.9	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	81.8	68.9	12.9	94.0	23.4	70.6

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ian Journey	Signature:	
Company: 3C Engineering, Inc.		
Address: 1801 Oak St. #120	Signature Date:	
City/State/Zip: Bakersfield CA 93301	CEA Identification (if applicable): M36073	
Phone: 661.387.7520		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: Curtis E. Flynn	Signature:	
Company: Integrated Designs by SOMAM, Inc.		
Address: 6011 N. Fresno St. #130	Date Signed: 6/21/18	
City/State/Zip: Fresno CA 93710	Declaration Statement Type:	
Phone: 559.436.0881	Title:	License #: C28966
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Brian Starett	Signature:	
Company: 3C Engineering		
Address: 1120 Marsh St.	Date Signed:	
City/State/Zip: San Luis Obispo CA 93401	Declaration Statement Type:	
Phone: 805.540.3363	Title:	License #: M34068

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Confirmed Pass	Confirmed Fail
Wood Stud Wall w/R-19 (Ty7	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 5/8 in.		☐	☐
Metal Stud Roof w/R-30 (T20	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Metal framed roof, 16in. OC, 9.25in., R-30 Gypsum Board - 1/2 in.		☐	☐
Slab On Grade22	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		☐	☐
R-19 Wall37	InteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY

1. Opaque Door Assembly Name / Tag or I.D.	2. Door Type	3. Certification Method	4. Operation	5. Area	6. Overall U-factor	7. Status[1]	Confirmed Pass	Confirmed Fail
Metal Door10	MetalUninsulatedSingleLayerDoor	DefaultPerformance	Swinging	416	1.450	N	☐	☐

[1] Status: N - New, A – Altered, E – Existing

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Sheet Title:
BUILDING A ENERGY COMPLIANCE FORMS

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01/31/18
Date: 06/01/18
Designer: --
DR: --
PC: --

Agency Approval Stamp:

FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
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DATE 06-22-18
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BRIAN P. STARRETT
M 34068
EXP. 6/30/18

Job No.: **17176**

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Release: -

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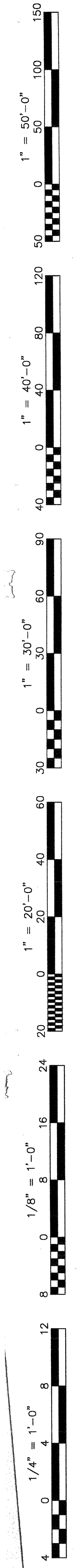

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NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)*

1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)										Confirmed	
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Pass	Fail
1-FC-A1 Zone	FC-A1 CU	635	635	1.00	NA	NA	N	FC-A1 CU	220	NA	1.10	30.00	33	33	NA	N	NA	☐	☐
2-FC-A2 Zone	FC-A2 CU	635	635	1.00	NA	NA	N	FC-A2 CU	180	NA	6.00	15.00	90	90	NA	N	NA	☐	☐
3-FC-A3 Zone	FC-A3 CU	1,180	1,180	1.00	NA	NA	N	FC-A3 CU	1,023	NA	5.12	30.00	153	153	NA	N	NA	☐	☐
4-FC-A4 Zone	FC-A4 CU	1,000	1,000	1.00	NA	NA	N	FC-A4 CU	258	NA	8.60	15.00	129	129	NA	N	NA	☐	☐
5-FC-A5 Zone	FC-A5 CU	1,600	1,600	1.00	NA	NA	N	FC-A5 CU	858	NA	28.60	15.00	429	429	NA	N	NA	☐	☐
6-FC-A6 Zone	FC-A6 CU	670	670	1.00	NA	NA	N	FC-A6 CU	761	NA	3.81	30.00	114	114	NA	N	NA	☐	☐
8-FC-A7 Zone	FC-A7 CU	1,600	1,600	1.00	NA	NA	N	FC-A7 CU	1,399	NA	13.99	15.00	210	210	NA	N	NA	☐	☐
9-FC-A8 Zone	FC-A8 CU	1,600	1,600	1.00	NA	NA	N	FC-A8 CU	1,363	NA	13.63	15.00	204	204	NA	N	NA	☐	☐
10-FC-A9 Zone	FC-A9 CU	635	NA	NA	NA	NA	N	FC-A9 CU	338	NA	11.27	15.00	169	169	NA	N	NA	☐	☐
								TOTAL	6,400		92.12		1,531	1,531	NA			☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
1-FC-A1 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	1-FC-A1 Zone	635	635	1.00	0.1	NA	☐	☐	☐

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
2-FC-A2 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	2-FC-A2 Zone	635	635	1.00	0.1	NA	☐	☐	☐
3-FC-A3 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	3-FC-A3 Zone	1180	1180	1.00	0.1	NA	☐	☐	☐
4-FC-A4 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	4-FC-A4 Zone	1000	1000	1.00	0.1	NA	☐	☐	☐
5-FC-A5 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	5-FC-A5 Zone	1600	1600	1.00	0.1	NA	☐	☐	☐
6-FC-A6 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	6-FC-A6 Zone	670	670	1.00	0.1	NA	☐	☐	☐
8-FC-A7 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	8-FC-A7 Zone	1600	1600	1.00	0.1	NA	☐	☐	☐
9-FC-A8 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	9-FC-A8 Zone	1600	1600	1.00	0.1	NA	☐	☐	☐
10-FC-A9 Zone-Trm	Uncontrolled	1	NA	NA	NA	10-FC-A9 Zone	635	NA	NA	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

D. DHW EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)* § 110.3

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Confirmed	
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition	Pass	Fail
WH-12	Gas	Storage	1	130.00	400	Thrml. Eff.: 0.96	NA	SBLF: 0.010	NA	NA	☐	☐
WH-23	Gas	Instantaneous	1	0.10	120	EF: 0.82	NA	SBLF: NA	NA	NA	☐	☐

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

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F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
BCSD Elementary School Bu1 - SHW	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
FC-A1 CU	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
FC-A2 CU	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
FC-A3 CU	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
FC-A4 CU	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
FC-A5 CU	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
FC-A6 CU	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
FC-A7 CU	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
FC-A8 CU	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
FC-A9 CU	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

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NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) § 140.6

This Section Does Not Apply

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) § 130.1

This Section Does Not Apply

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) § 140.6

This Section Does Not Apply

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) § 140.6-D

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) § 140.6(c) 3H

This Section Does Not Apply

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

This Section Does Not Apply

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) § 130.4

This Section Does Not Apply

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-122020178-5302 Report Generated at: 2018-01-29 12:23:55

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Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:

Sheet Title:

BUILDING A ENERGY COMPLIANCE FORMS

Project Name & Address:

NEW ELEMENTARY SCHOOL
INCREMENT 2

BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01/31/18
Date: 06/01/18
Designer: --
DR: --
PC: --

Agency Approval Stamp:

FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC ✓ FLS ✓ SS KW
DATE 06 - 22 - 18
TRACKING #: 63321-300

Stamp(s):

BRIAN P. STARRETT
M 34068
EXP. 6/30/18

Job No.: 17176

Sheet No.: T24.02

Release: -

S:\Shared\Jobs\Consulting Engineering Jobs\BCSD New Elementary School\Engineering\BCSD Elementary T24.dwg DENVER STANGER

Project Name:	BCSD New Elementary School (Increment 2)	NRCC-PRF-01-E	Page 1 of 21
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A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	Bakersfield	8.	Standards Version	Compliance2016
2.	CA Zip Code	93307	9.	Compliance Software (version)	EnergyPro 7.2
3.	Climate Zone	13	10.	Weather File	BAKERSFIELD_723840_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	11,114 ft^2	11.	Building Orientation (deg)	(S) 225 deg
5.	Total Unconditioned Floor Area	454 ft^2	12.	Permitted Scope of Work	NewEnvelopeAndMechanical
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ^{2}-yr) § 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	9.29	4.31	4.98	53.6%
Space Cooling	166.61	129.25	37.36	22.4%
Indoor Fans	39.19	61.24	-22.05	-56.3%
Heat Rejection	--	--	--	--
Pumps & Misc.	1.05	--	1.05	--
Domestic Hot Water	4.85	3.39	1.46	30.1%
Indoor Lighting	87.37	95.76	-8.39	-9.6%
COMPLIANCE TOTAL	**308.36**	**293.95**	**14.41**	**4.7%**
Receptacle	89.22	89.22	0.0	0.0%
Process	32.50	32.50	0.0	0.0%
Other Ltg	20.94	20.94	0.0	0.0%
Process Motors	--	--	--	--
TOTAL	**451.02**	**436.61**	**14.4**	**3.2%**

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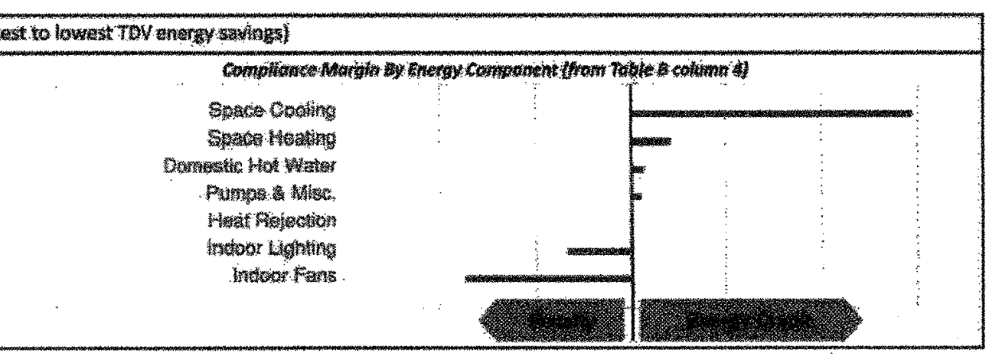
C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Space Cooling: Check envelope and mechanical
2nd	Space Heating: Check envelope and mechanical
3rd	Domestic Hot Water: Check mechanical
4th	Pumps & Misc.: Check mechanical
5th	Heat Rejection: Check envelope and mechanical
6th	Indoor Lighting: Check lighting
7th	Indoor Fans: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐ NA		
Mechanical	☒ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ NA		
Domestic Hot Water	☒ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PLB-01-E	
	☐ NA		
Lighting (Indoor Conditioned)	☐ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☒ NA		
Covered Process: Commercial Kitchens	☐ Performance	S2 (section of the NRCC-PRF-01-E)	
	☒ Prescriptive	NRCC-PRC-01/ 03-E	
	☐ NA		
Covered Process: Computer Rooms	☐ Performance	S3 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 04-E	
	☒ NA		
Covered Process: Laboratory Exhaust	☐ Performance	S4 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 09-E	
	☒ NA		

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.				*The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.*			
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	☐ ☐	☒ ☒	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☐	☒	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	☐ ☐ ☐ ☐ ☐	☒ ☒ ☒ ☒ ☒	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Envelope	☒ NRCI-ENV-01-E - For all buildings	☐	☐
	☒ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☒ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☒ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☒ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☒ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☒ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☒ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☐ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Covered Process	☐ NRCI-PRC-01-E Covered Processes	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☒ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed Pass	Confirmed Fail
1.	Total Conditioned Floor Area	11,114 ft^2	5.	Number of Floors Above Grade	1		
2.	Total Unconditioned Floor Area	454 ft^2	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft^2					
4.	Addition Unconditioned Floor Area	0 ft^2					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	2,734 ft^2	0 ft^2	00.0%	☐	☐
East Wall	3,621 ft^2	0 ft^2	00.0%	☐	☐
South Wall	2,349 ft^2	191 ft^2	08.1%	☐	☐
West Wall	1,144 ft^2	0 ft^2	00.0%	☐	☐
Total	9,848 ft^2	191 ft^2	01.9%	☐	☐
Roof	11,114 ft^2	0 ft^2	00.0%	☐	☐

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J. FENESTRATION ASSEMBLY SUMMARY § 110.6

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft^2	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]	Confirmed Pass	Confirmed Fail
Solarban 60	VerticalFenestration FixedWindow MetalFraming	COG Equations	SiteBuilt	191	0.24 (COG)	0.25 (COG)	0.35 (COG)	N	☐	☐

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.

[2] Status: N - New, A – Altered, E – Existing

Taking compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No

K. OPAQUE SURFACE ASSEMBLY SUMMARY § 120.7/ § 140.3

1. Surface Name	2. Surface Type	3. Area (ft^2)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Status[1]	Confirmed Pass	Confirmed Fail
Slab On Grade7	UndergroundFloor	11568	NA	0	NA	F-Factor: 0.730	N	☐	☐
Sloped Metal Roof w/ R-3010	Roof	7606	Wood	30	NA	U-Factor: 0.036	N	☐	☐
6 Wood Frame w/ R-2112	ExteriorWall	3569	Wood	21	NA	U-Factor: 0.065	N	☐	☐
Flat Roof w/ R-3015	Roof	3962	Wood	30	13	U-Factor: 0.024	N	☐	☐
8 Wood Frame w/ R-2148	ExteriorWall	6568	Wood	21	NA	U-Factor: 0.059	N	☐	☐
6 Wood Frame w/ R-21121	InteriorWall	324	Wood	21	NA	U-Factor: 0.062	N	☐	☐

[1] Status: N - New, A – Altered, E – Existing

L. ROOFING PRODUCT SUMMARY § 140.3

1. Product Type	2. Product Density (lb/ft^2)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Confirmed Pass	Confirmed Fail
Sloped Metal Roof w/ R-3010	8.166	0.08	0.75	NA	No	NA	☐	☐
Flat Roof w/ R-3015	9.185	0.63	0.75	Not Provided	Yes	CRRC Prod. ID: Flat Roof w/ R-30	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2

Dry System Equipment[1] (Fan & Economizer info included below in Table N)

1. Equip Name	2. Equip Type	3. System Type (Simple[2] or Complex[3])	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtuh)	8. Total Cooling Output (kBtu/h)	9. Efficiency Cooling	9. Efficiency Heating	10. Acceptance Testing Required? (Y/N)[4]	11. Status[5]	Confirmed Pass	Confirmed Fail
AC-B1	SZVAVAC (Packaged3Phase)	Complex	1	59	No	0	70	EER-13.0	AFUE-81.0	Yes	N	☐	☐
AC-B2	SZAC (Packaged1Phase)	Simple	1	33	No	0	23	SEER-14.000 / EER-11.500	AFUE-81.0	Yes	N	☐	☐
AC-B3	SZVAVAC (Packaged3Phase)	Complex	1	49	No	0	49	SEER-18.40 / EER-14.50	AFUE-81.0	Yes	N	☐	☐
AC-B4	SZVAVAC (Packaged3Phase)	Complex	1	146	No	0	122	EER-13.0	AFUE-81.0	Yes	N	☐	☐
AC-B5	SZVAVAC (Packaged3Phase)	Complex	2	143	No	0	146	EER-12.5	AFUE-81.0	Yes	N	☐	☐
AC-B6	SZVAVAC (Packaged3Phase)	Complex	1	59	No	0	70	EER-13.0	AFUE-81.0	Yes	N	☐	☐

[1] Dry System Equipment includes furnaces, air handling units, heat pumps, etc.

[2] Simple Systems must complete NRCC-CXR-03-E commissioning design review form

[3] Complex Systems must complete NRCC-CXR-04-E commissioning design review form

[4] A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS

[5] Status: N - New, A – Altered, E – Existing

Wet System Equipment[1]								*Pumps*					Confirmed	
12. Equip Name	13. Equip Type	14. Qty	15. Vol (gal)	16. Rated Capacity (kBtu/h)	17. Efficiency	18. Standby Loss	19. Tank Ext. R Value	20. Qty	21. GPM	22. HP	23. VSD (Y/N)	24. Status[2]	Pass	Fail
AO Smith BTH 4002	Storage	1	130.00	400	Thrml. Eff.: 0.96	SBLF: 0.018	NA		NA		No	N	☐	☐
Navien-150s3	Instantaneous	1	1.00	120	EF: 0.97	SBLF: NA	NA		NA		No	N	☐	☐

[1] Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.

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[2] Status: N - New, A – Altered, E – Existing

Discrepancy between modeled and designed equipment sizing? (If "Yes", see Table F. "Additional Remarks" for an explanation)	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] § 140.4

1.	2. Outside Air	3. Supply Fan					4. Return Fan					5.	Confirmed	
Equip Name	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control	Economizer Type (if present)	Pass	Fail
AC-B1	209	2400	1.160	1.160	1.84	VariableSpeedDrive	NA	NA	NA	NA	NA	FixedDryBulb	☐	☐
AC-B2	275	800	0.370	0.370	1.47	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
AC-B3	88	1600	1.130	1.130	2.24	VariableSpeedDrive	NA	NA	NA	NA	NA	FixedDryBulb	☐	☐
AC-B4	1819	4000	2.350	2.350	2.24	VariableSpeedDrive	NA	NA	NA	NA	NA	FixedDryBulb	☐	☐
AC-B5	1371	5000	1.950	1.950	1.48	VariableSpeedDrive	NA	NA	NA	NA	NA	FixedDryBulb	☐	☐
AC-B6	525	2400	1.160	1.160	1.84	VariableSpeedDrive	NA	NA	NA	NA	NA	FixedDryBulb	☐	☐

[1] Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

O. EQUIPMENT CONTROLS § 120.2

1. Equip Name	2. Equip Type	3. Controls	Confirmed Pass	Confirmed Fail
AC-B1	SZVAVAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
AC-B2	SZAC	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐

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O. EQUIPMENT CONTROLS § 120.2

1. Equip Name	2. Equip Type	3. Controls	Confirmed Pass	Confirmed Fail
AC-B3	SZVAVAC	1 Zones With CO2Sensor Vent. Control Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
AC-B4	SZVAVAC	1 Zones With CO2Sensor Vent. Control Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
AC-B5	SZVAVAC	1 Zones With CO2Sensor Vent. Control Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
AC-B6	SZVAVAC	1 Zones With CO2Sensor Vent. Control Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
BCSD Elementary School Bu1 - SHW	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC No Heat Recovery	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(l)

		Dry System Distribution					Confirmed	
1. Equip Name	2. Equip Type	3. Duct Leakage and Sealing Required per 140.4(l)	4. Duct Leakage will be verified per NA1 and NA2	5. Ducts Insulation R-Value	5. Ducts Location	6. Status[1]	Pass	Fail
AC-B1	SZVAVAC	No	No	8	Unconditioned	N	☐	☐

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P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(l)

		Dry System Distribution					Confirmed	
1. Equip Name	2. Equip Type	3. Duct Leakage and Sealing Required per 140.4(l)	4. Duct Leakage will be verified per NA1 and NA2	5. Ducts Insulation R-Value	5. Ducts Location	6. Status[1]	Pass	Fail
AC-B2	SZAC	No	No	8	Unconditioned	N	☐	☐
AC-B3	SZVAVAC	No	No	8	Unconditioned	N	☐	☐
AC-B4	SZVAVAC	No	No	8	Unconditioned	N	☐	☐
AC-B5	SZVAVAC	No	No	8	Unconditioned	N	☐	☐
AC-B6	SZVAVAC	No	No	8	Unconditioned	N	☐	☐

[1] Status: N - New, E – Existing

Does the Project Include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)

This Section Does Not Apply

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[1] § 130.0

This Section Does Not Apply

[1] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES § 140.9

This Section Does Not Apply

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S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS § 140.9

Space Name	Exhaust Hood Style	Exhaust Hood Duty	Exhaust Length (ft)	Exhaust Flow Rate (cfm)	Confirmed Pass	Confirmed Fail
S-1-AC-B1 Zone		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
S-3-AC-B3 Zone		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS § 140.9

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS § 140.9

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.0	--	--	60.5	28.1	32.4
Space Cooling	49.3	37.2	12.1	--	--	--
Indoor Fans	14.6	25.3	-10.7	--	--	--
Heat Rejection	--	--	--	--	--	--

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U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Pumps & Misc.	0.7	--	--	--	--	--
Domestic Hot Water	--	--	--	37.7	26.3	11.4
Indoor Lighting	41.3	45.3	-4.0	--	--	--
COMPLIANCE TOTAL	**105.9**	**107.8**	**-1.9**	**98.2**	**54.4**	**43.8**
Receptacle	42.2	42.2	0.0	--	--	--
Process	17.5	17.5	0.0	--	--	--
Other Ltg	9.9	9.9	0.0	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**175.5**	**177.4**	**-1.9**	**98.2**	**54.4**	**43.8**

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ian Journey	Signature:
Company: 3C Engineering, Inc.	
Address: 1801 Oak St. #120	Signature Date:
City/State/Zip: Bakersfield CA 93301	CEA Identification (If applicable): M36073
Phone: 661.387.7520	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: Curtis E. Flynn	Signature:	
Company: Integrated Designs by SOMAM, Inc.		
Address: 6011 N. Fresno St. #130	Date Signed: 6/21/18	
City/State/Zip: Fresno CA 93710	Declaration Statement Type:	
Phone: 559.436.0881	Title:	License #: C28966
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Brian Starett	Signature:	
Company: 3C Engineering		
Address: 1120 Marsh St.	Date Signed:	
City/State/Zip: San Luis Obispo CA 93401	Declaration Statement Type:	
Phone: 805.540.3363	Title:	License #: M34068

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Confirmed Pass	Confirmed Fail
Slab On Grade7	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		☐	☐
Sloped Metal Roof w/ R-3010	Roof	Metal Standing Seam - 1/16 in. Vapor permeable felt - 1/8 in. Plywood - 5/8 in. Metal Deck - 1/16 in. Wood framed roof, 16in. OC, 11.25in., R-30 Gypsum Board - 3/8 in.		☐	☐
6 Wood Frame w/ R-2112	ExteriorWall	Gypsum plaster - 80 lb/ft3 - 1/2 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Wood framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 5/8 in.		☐	☐
Flat Roof w/ R-3015	Roof	Light Roof - 2/5 in. Fiber cement board - 63 lb/ft3 - 1/3 in. Compliance Insulation R13.00 Plywood - 5/8 in. Metal Deck - 1/16 in. Wood framed roof, 16in. OC, 7.25in., R-30 Gypsum Board - 3/8 in.		☐	☐
8 Wood Frame w/ R-2148	ExteriorWall	Gypsum plaster - 80 lb/ft3 - 1/2 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Wood framed wall, 16in. OC, 7.25in., R-21 Gypsum Board - 5/8 in.		☐	☐
6 Wood Frame w/ R-21121	InteriorWall	Gypsum plaster - 80 lb/ft3 - 1/2 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Wood framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 5/8 in.		☐	☐

1" = 50'-0"
150 100 50 0 50

1" = 40'-0"
120 80 40 0 40

1" = 30'-0"
90 60 30 0 30

1" = 20'-0"
60 40 20 0 20

1/8" = 1'-0"
24 16 8 0 8

1/4" = 1'-0"
12 8 4 0 4

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www.integrateddesigns.com

Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:

Sheet Title:
BUILDING B ENERGY COMPLIANCE FORMS

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01/31/18
Date: 06/01/18
Designer: --
DR: --
PC: --

Agency Approval Stamp:

FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC ✓ FLS ✓ SS
DATE 03-22-18
TRACKING #: 63321-300

Stamp(s):

BRIAN P. STARRETT
M 34068
EXP. 6/30/18

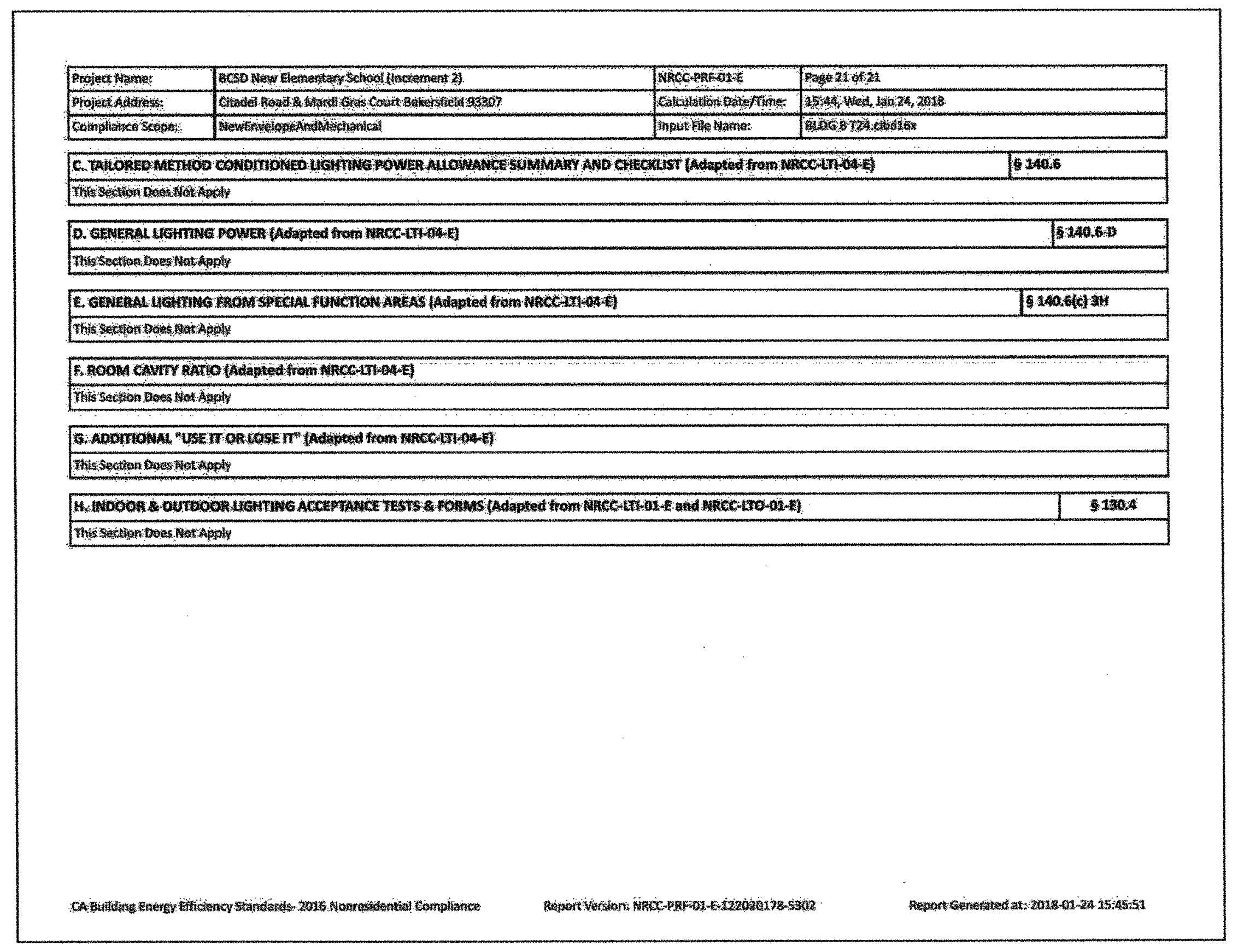
Job No.: **17176**

Sheet No.: **T24.03**

Release: -

S:\Shared\Jobs\Consulting Engineering Jobs\BCSD New Elementary School\Engineering\BCSD Elementary T24.dwg **DENVER STANGER**

1" = 50'-0"
150
100
50
0
50
1" = 40'-0"
120
80
40
0
40
1" = 30'-0"
90
60
30
0
30
1" = 20'-0"
60
40
20
0
20
1/8" = 1'-0"
24
16
8
0
8
1/4" = 1'-0"
12
8
4
0
4



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C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) § 140.6

This Section Does Not Apply

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) § 140.6-D

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) § 140.6(c) 3H

This Section Does Not Apply

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

This Section Does Not Apply

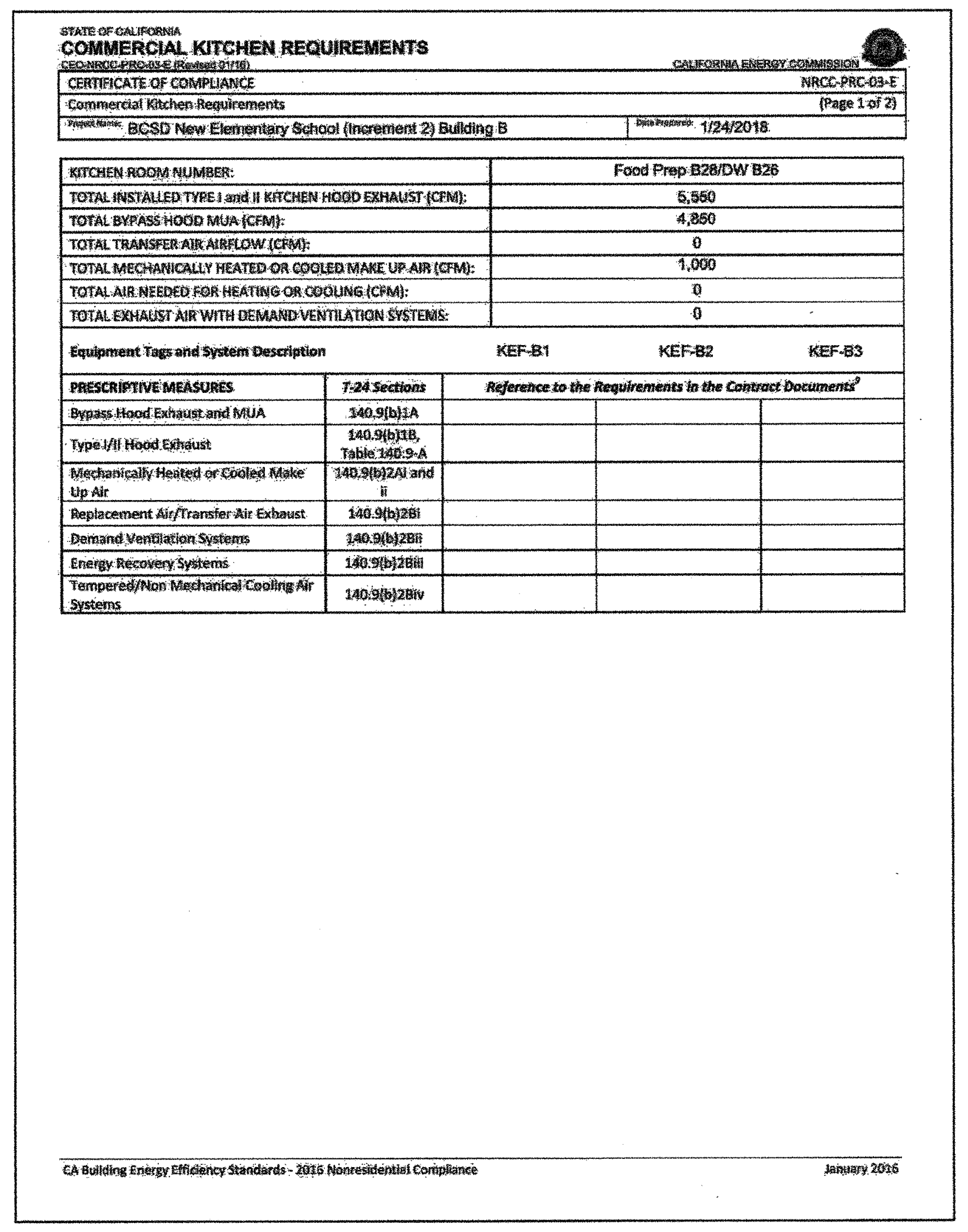
G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) § 130.4

This Section Does Not Apply

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-122020178-5302 Report Generated at: 2018-01-24 15:45:51



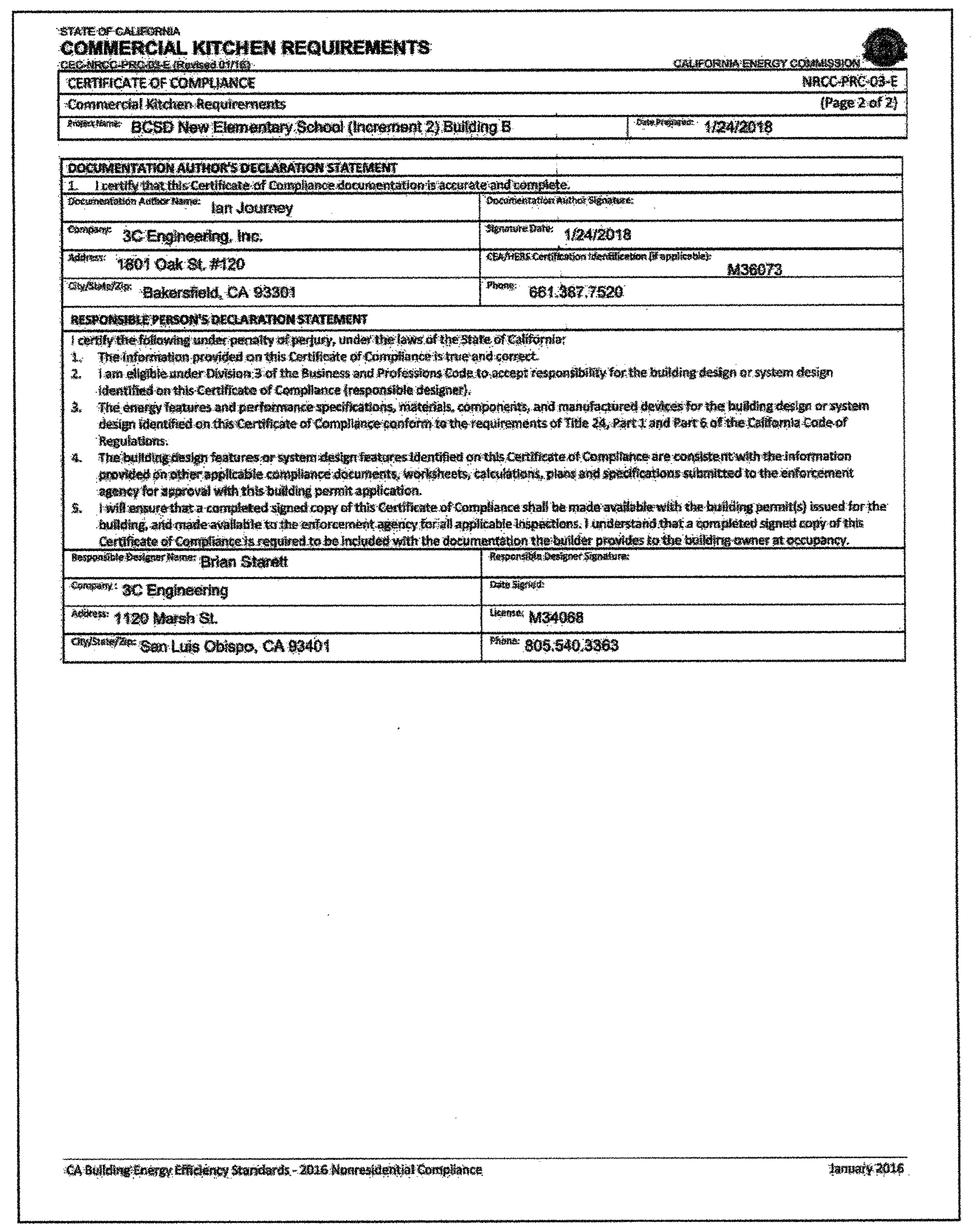
STATE OF CALIFORNIA
COMMERCIAL KITCHEN REQUIREMENTS
CEC-NRCC-PRC-03-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-03-E
Commercial Kitchen Requirements	(Page 1 of 2)
Project Name: BCSD New Elementary School (Increment 2) Building B	Date Prepared: 1/24/2018

KITCHEN ROOM NUMBER:	Food Prep B28/DW B26
TOTAL INSTALLED TYPE I and II KITCHEN HOOD EXHAUST (CFM):	5,550
TOTAL BYPASS HOOD MUA (CFM):	4,850
TOTAL TRANSFER AIR AIRFLOW (CFM):	0
TOTAL MECHANICALLY HEATED OR COOLED MAKE UP AIR (CFM):	1,000
TOTAL AIR NEEDED FOR HEATING OR COOLING (CFM):	0
TOTAL EXHAUST AIR WITH DEMAND VENTILATION SYSTEMS:	0

Equipment Tags and System Description		KEF-B1	KEF-B2	KEF-B3
PRESCRIPTIVE MEASURES	***T-24 Sections***	***Reference to the Requirements in the Contract Documents***[2]		
Bypass Hood Exhaust and MUA	140.9(b)1A			
Type I/II Hood Exhaust	140.9(b)1B, Table 140.9-A			
Mechanically Heated or Cooled Make Up Air	140.9(b)2Ai and ii			
Replacement Air/Transfer Air Exhaust	140.9(b)2Bi			
Demand Ventilation Systems	140.9(b)2Bii			
Energy Recovery Systems	140.9(b)2Biii			
Tempered/Non Mechanical Cooling Air Systems	140.9(b)2Biv			

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016



STATE OF CALIFORNIA
COMMERCIAL KITCHEN REQUIREMENTS
CEC-NRCC-PRC-03-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-03-E
Commercial Kitchen Requirements	(Page 2 of 2)
Project Name: BCSD New Elementary School (Increment 2) Building B	Date Prepared: 1/24/2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ian Journey	Documentation Author Signature:
Company: 3C Engineering, Inc.	Signature Date: 1/24/2018
Address: 1801 Oak St. #120	CEA/HERS Certification Identification (if applicable): M36073
City/State/Zip: Bakersfield, CA 93301	Phone: 661.387.7520

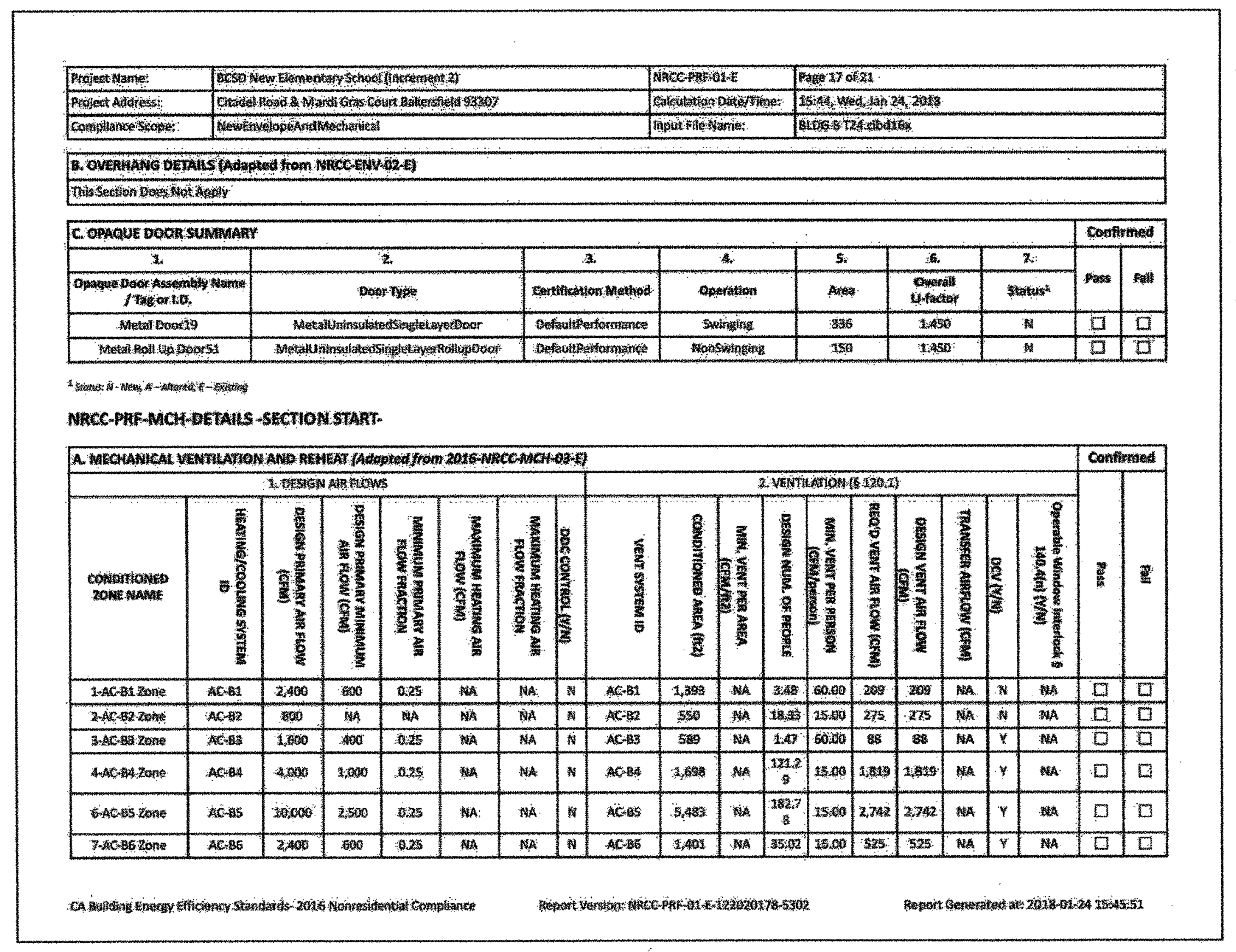
RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Brian Starett	Responsible Designer Signature:
Company: 3C Engineering	Date Signed:
Address: 1120 Marsh St.	License: M34068
City/State/Zip: San Luis Obispo, CA 93401	Phone: 805.540.3363

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016



Project Name:	BCSD New Elementary School (Increment 2)	NRCC-PRF-01-E	Page 17 of 21
Project Address:	Citadel Road & Mardi Gras Court Bakersfield 93307	Calculation Date/Time:	15:44, Wed, Jan 24, 2018
Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	BLDG B T24.cibd16x

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY

1.	2.	3.	4.	5.	6.	7.	Confirmed	
Opaque Door Assembly Name / Tag or I.D.	Door Type	Certification Method	Operation	Area	Overall U-factor	Status[1]	Pass	Fail
Metal Door19	MetalUninsulatedSingleLayerDoor	DefaultPerformance	Swinging	336	1.450	N	☐	☐
Metal Roll Up Door51	MetalUninsulatedSingleLayerRollupDoor	DefaultPerformance	NonSwinging	150	1.450	N	☐	☐

[1] *Status: N - New, A – Altered, E – Existing*

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT ***(Adapted from 2016-NRCC-MCH-03-E)***

	1. DESIGN AIR FLOWS							2. VENTILATION (§ 120.1)										Confirmed	
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Pass	Fail
1-AC-B1 Zone	AC-B1	2,400	600	0.25	NA	NA	N	AC-B1	1,393	NA	3.48	60.00	209	209	NA	N	NA	☐	☐
2-AC-B2 Zone	AC-B2	800	NA	NA	NA	NA	N	AC-B2	550	NA	18.33	15.00	275	275	NA	N	NA	☐	☐
3-AC-B3 Zone	AC-B3	1,600	400	0.25	NA	NA	N	AC-B3	589	NA	1.47	60.00	88	88	NA	Y	NA	☐	☐
4-AC-B4 Zone	AC-B4	4,000	1,000	0.25	NA	NA	N	AC-B4	1,698	NA	121.29	15.00	1,819	1,819	NA	Y	NA	☐	☐
6-AC-B5 Zone	AC-B5	10,000	2,500	0.25	NA	NA	N	AC-B5	5,483	NA	182.78	15.00	2,742	2,742	NA	Y	NA	☐	☐
7-AC-B6 Zone	AC-B6	2,400	600	0.25	NA	NA	N	AC-B6	1,401	NA	35.02	15.00	525	525	NA	Y	NA	☐	☐

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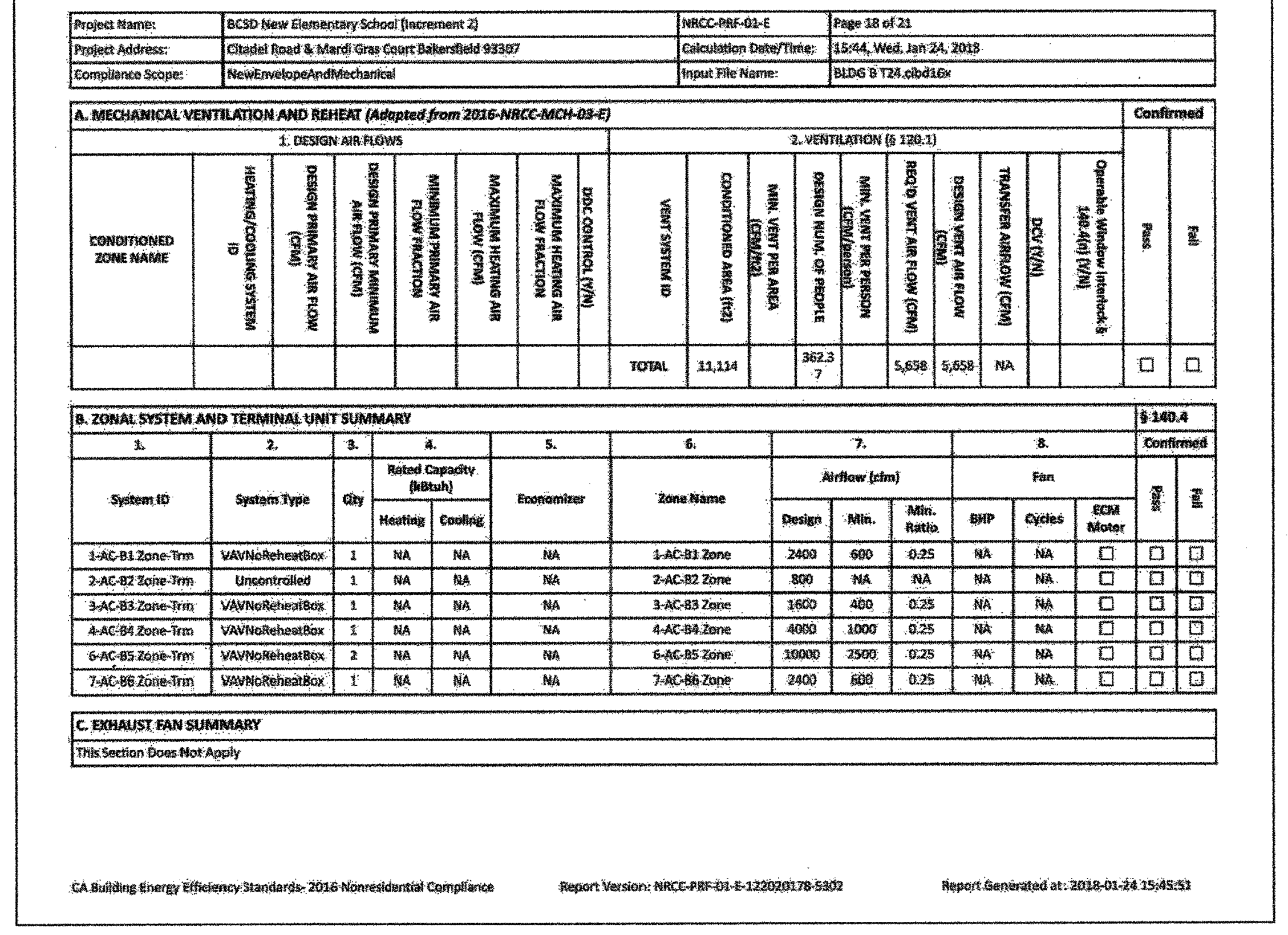

Project Name:	BCSD New Elementary School (Increment 2)	NRCC-PRF-01-E	Page 18 of 21
Project Address:	Citadel Road & Mardi Gras Court Bakersfield 93307	Calculation Date/Time:	15:44, Wed, Jan 24, 2018
Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	BLDG B T24.cibd16x

A. MECHANICAL VENTILATION AND REHEAT ***(Adapted from 2016-NRCC-MCH-03-E)***

	1. DESIGN AIR FLOWS							2. VENTILATION (§ 120.1)										Confirmed	
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Pass	Fail
								TOTAL	11,114		362.37		5,658	5,658	NA			☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
1-AC-B1 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	1-AC-B1 Zone	2400	600	0.25	NA	NA	☐	☐	☐
2-AC-B2 Zone-Trm	Uncontrolled	1	NA	NA	NA	2-AC-B2 Zone	800	NA	NA	NA	NA	☐	☐	☐
3-AC-B3 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	3-AC-B3 Zone	1600	400	0.25	NA	NA	☐	☐	☐
4-AC-B4 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	4-AC-B4 Zone	4000	1000	0.25	NA	NA	☐	☐	☐
6-AC-B5 Zone-Trm	VAVNoReheatBox	2	NA	NA	NA	6-AC-B5 Zone	10000	2500	0.25	NA	NA	☐	☐	☐
7-AC-B6 Zone-Trm	VAVNoReheatBox	1	NA	NA	NA	7-AC-B6 Zone	2400	600	0.25	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

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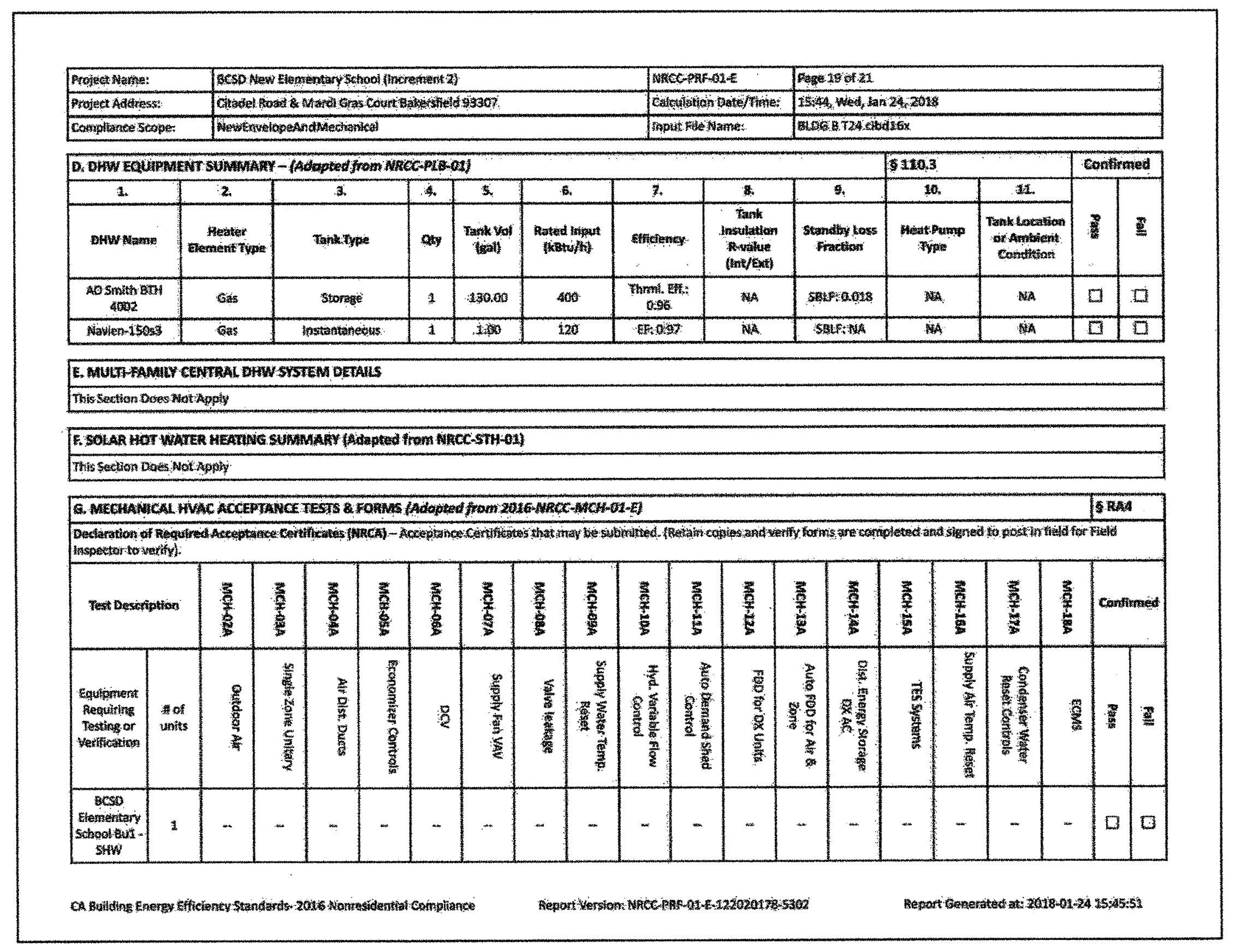

Project Name:	BCSD New Elementary School (Increment 2)	NRCC-PRF-01-E	Page 19 of 21
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D. DHW EQUIPMENT SUMMARY – ***(Adapted from NRCC-PLB-01)*** § 110.3

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Confirmed	
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition	Pass	Fail
AO Smith BTH 4002	Gas	Storage	1	130.00	400	Thrml. Eff.: 0.96	NA	SBLF: 0.018	NA	NA	☐	☐
Navien-150s3	Gas	Instantaneous	1	1.00	120	EF: 0.97	NA	SBLF: NA	NA	NA	☐	☐

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS ***(Adapted from 2016-NRCC-MCH-01-E)*** § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
BCSD Elementary School Bu1 - SHW	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐

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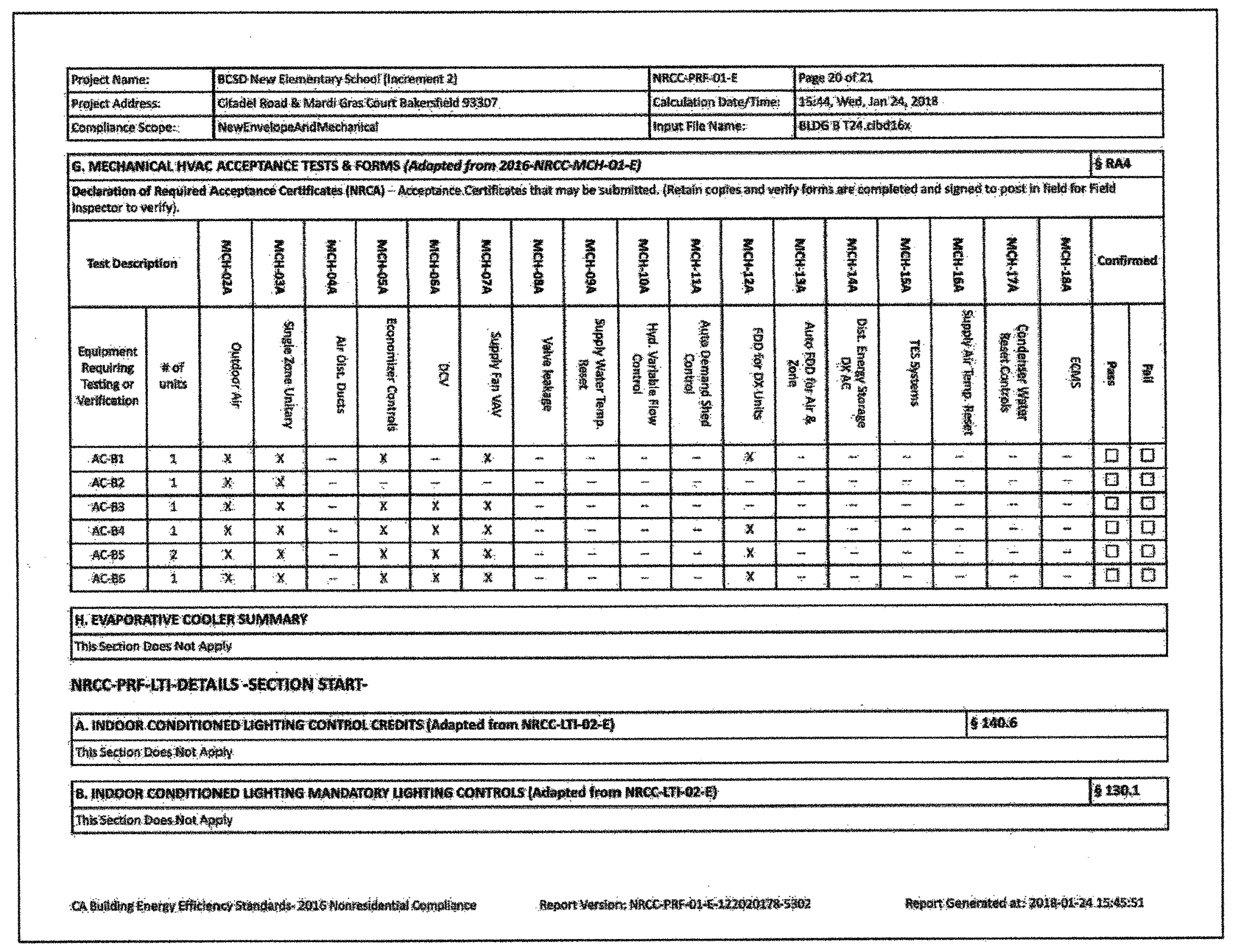

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS ***(Adapted from 2016-NRCC-MCH-01-E)*** § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
AC-B1	1	X	X	–	X	–	X	–	–	–	–	X	–	–	–	–	–	–	☐	☐
AC-B2	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
AC-B3	1	X	X	–	X	X	X	–	–	–	–	–	–	–	–	–	–	–	☐	☐
AC-B4	1	X	X	–	X	X	X	–	–	–	–	X	–	–	–	–	–	–	☐	☐
AC-B5	2	X	X	–	X	X	X	–	–	–	–	X	–	–	–	–	–	–	☐	☐
AC-B6	1	X	X	–	X	X	X	–	–	–	–	X	–	–	–	–	–	–	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) § 140.6

This Section Does Not Apply

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) § 130.1

This Section Does Not Apply

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www.integrateddesigns.com

Revision:	Revision Description:	Rev. Date:	Revision:	Revision Description:	Rev. Date:

Sheet Title:
BUILDING B ENERGY COMPLIANCE FORMS

Project Name & Address:
NEW ELEMENTARY SCHOOL
INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL ROAD & MARDI GRAS COURT

Issue Date: 01/31/18
Date: 06/01/18
Designer: – –
DR: – –
PC: – –

Agency Approval Stamp:

FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC ⁄ FLS ⁄ SS
DATE 06 . 22 . 18
TRACKING #: 63321-300

Stamp(s):

BRIAN P. STARRETT
M 34068
EXP. 6/30/18

Job No.: **17176**

Sheet No.: **T24.04**

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